

# 30 Percent Construction Cost Estimate Sites Reservoir Facilities Technical Memorandum




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Date: March 10, 2025

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## Acronyms and Abbreviations

|           |                                                     |
|-----------|-----------------------------------------------------|
| AACE      | Association for the Advancement of Cost Engineering |
| Authority | Sites Project Authority                             |
| Caltrans  | California Department of Transportation             |
| CMAR      | Construction Manager at Risk                        |
| GC&GR     | general conditions and general requirements         |
| IEC       | Integrated Engineering and Construction             |
| I/O       | inlet/outlet                                        |
| MWD       | Metropolitan Water District                         |
| OH&P      | overhead and profit                                 |
| OPCC      | Opinion of Probable Construction Cost               |
| PGP       | pump-generation plant                               |
| SLR       | Sites-Lodoga Road                                   |
| TM        | technical memorandum                                |
| USBR      | United States Bureau of Reclamation                 |
| VE        | value engineering                                   |

## Executive Summary

This technical memorandum (TM) presents AECOM's 30 percent cost estimate (Opinion of Probable Construction Cost, [OPCC]) for the reservoir facilities contract (HR). The reservoir facilities covered by the contract include the main and saddle dams, spillway, inlet/outlet tunnel and sloping structure, construction diversion tunnels, and roads and bridges. Costs for the conveyance facilities contract (HC), non-contract costs, lands, and environmental mitigation are presented in separate TMs prepared by the Sites agents.

The estimate presented herein is a Class 3 cost estimate, as defined by the Association for the Advancement of Cost Engineering International (AACE). The costs are presented in March 2024 dollars. As defined by AACE, the expected range of accuracy for this 30 percent cost estimate is +30 percent/-20 percent. This means the actual costs may be as much as 30 percent higher or 20 percent lower than the estimated cost.

The 30 percent cost estimate summary, in 2024 dollars, is presented in Table ES-1.

Table ES-1 30 Percent Cost Estimate Summary

| WBS # | Description                                                                         | Total Project Cost<br>(2024 dollars) |
|-------|-------------------------------------------------------------------------------------|--------------------------------------|
| 20    | Site Demolition and Clearing Work                                                   | \$45,000,000                         |
| 21    | Golden Gate Dam                                                                     | \$738,700,000                        |
| 22    | Sites Dam and Diversion                                                             | \$553,400,000                        |
| 23    | Saddle Dam 3                                                                        | \$288,300,000                        |
| 24    | Saddle Dam 5                                                                        | \$131,500,000                        |
| 25    | Other Saddle Dams and Spillway                                                      | \$182,500,000                        |
| 26    | Inlet-Outlet Facility                                                               | \$625,400,000                        |
| 27    | Road Work – Public, Including Reroute, Recreation, Maintenance, Construction Access | \$700,400,000                        |
|       | Total – March 2024                                                                  | \$3,265,200,000                      |
|       | Estimated Range – Low (-20%)                                                        | \$2,612,200,000                      |
|       | Estimated Range – High (+30%)                                                       | \$4,244,800,000                      |

The cost includes the direct construction costs (labor, materials, equipment, and subcontractors), mobilization/demobilization, field overhead (general requirements and conditions), insurance and bond, home office overhead (general and administrative), and contractor profit. The cost estimate includes design and construction contingencies that will be confirmed or adjusted during subsequent risk reviews. Owner's costs such as non-contract costs, lands, and environmental mitigation are excluded. Key inclusions and exclusions from the 30 percent cost estimate discussed in the TM should be carefully considered when preparing the overall project budget.

The 30 percent cost estimate is based on the design documents submitted in March and April 2024 under the HR Contract. This includes numerous TMs and 30 percent design drawings. The 30 percent

design was based on very limited geotechnical data, and future geotechnical investigations could have a substantial effect on the design assumptions and cost estimate. The estimate is based on the construction sequencing and schedule presented in the June 2024 TM. The estimated total construction duration of the reservoir facilities would be about eight years. Changes in the schedule or delays in the start of work could affect the construction cost. The construction schedule should be considered when the estimate is escalated to the midpoint of construction. Escalation is not included in the estimate and will be included by others.

Design contingencies (applicable prior to bid) vary by project feature and range from 10% to 25% are included to account for uncertainty related to undefined scope items in the current design in this 30 percent cost estimate. A construction contingency of 15 percent has been included for construction phase changes. An "Owner's contingency" is not included in this 30 percent cost estimate and should be considered by the Sites Project Authority (Authority) to establish its own contingency.

A risk register has been initiated to track risks and their potential impact on project cost. The risk register will be used to inform risk mitigation strategies. A risk workshop is scheduled to be held later in 2025.

## 1.0 Introduction

### 1.1 Background

This technical memorandum (TM) presents a 30 percent construction cost estimate for the Sites Reservoir (HR) facilities. The following appendices are included to support this cost estimate:

- Appendix A - 30 percent Construction Cost Estimate Back-up (for HR)
- Appendix B - Labor Rates
- Appendix C - Equipment Rates
- Appendix D - Design Contingency Evaluation
- Appendix E - Comments from Metropolitan Water District and Design Team Responses.

AECOM submitted several technical memoranda (TMs) and drawings under Task Order No. 3 and 4 that advanced the design of the HR facilities to preliminary level. Those TMs and drawings form the basis for the HR 30 percent cost estimate presented in this TM. This 30 percent cost estimate TM uses the following related AECOM documents:

- HR Feasibility-Level Cost Estimate TM (May 20, 2021) (AECOM 2021) – This TM presents AECOM’s feasibility-level cost estimate for the reservoir facilities contract (HR). The reservoir facilities covered by the contract include the main and saddle dams, spillway, inlet/outlet (I/O) tunnels and tower, construction diversion tunnel, and roads and bridges.
- Reservoir Preliminary Construction Schedule, Revised Draft (June 25, 2024)(AECOM 2024f) – This TM presents a Dams and Reservoir Conceptual Construction Schedule for use in preparation of an overall (“primary”) Project Schedule. This TM reflects the construction schedule considerations for the reservoir HR contract facilities that will be constructed under Contract Package 1 using the Construction Manager at Risk (CMAR) delivery approach.
- Cost Trending Presentation (December 14, 2023) (AECOM 2023b) – This presents key costs estimated to inform cost trends relative to the May 20, 2021, Final Feasibility-Level Cost Estimate. It provides a “snapshot” of key costs for in-progress designs and is a general indication of construction cost trends.
- Value Engineering TM (February 7, 2024) (AECOM 2024a) – This Value Engineering (VE) TM expands on the feasibility-level VE ideas or proposals indicated in the May 2021 Feasibility-Level Cost Estimate TM and introduces newly identified VE proposals. The VE proposals in this TM focus on those that may be adopted during 60% design because they will require Sites Project Authority (Authority) acceptance, geotechnical data, or additional constructability review. Because 30% design is complete, the new VE proposals focus on those that can be adopted during 60% design or later.
- 30 Percent Construction Cost Estimate, Sites Reservoir Facilities, Draft TM, (May 22, 2024e) - This draft cost estimate TM presents the 30 percent cost estimate for the reservoir facilities contract (HR). The draft cost estimate was reviewed by the Authority and Metropolitan Water District (MWD). Those comments are incorporated in this updated submittal of the 30 percent estimate. MWD’s comments and the Design Team’s responses are presented in Appendix E.

In addition, the following key TMs and reports support this 30 percent cost estimate:

- Draft Sites Reservoir Onsite Water Supply During Construction TM, Task HR27.01, July 17, 2023 (AECOM 2023c)
- Demolition and Abandonment Plan TM, Task HR45.01, November 20, 2023 (AECOM 2023d)
- Draft Environmental Protection TM, Task HR33.01, December 14, 2023 (AECOM 2023e)
- Commercial Aggregate Sources TM, Task HR24.08, March 19, 2024 (AECOM 2024b)
- Draft Material Handling and Development: 30% Basis of Design TM, Task HR25.01, March 29, 2024 (AECOM 2024c)
- 30% Basis of Design Report: Dams, Hydraulic Structures, and Tunnels, Task HR35.01, April 17, 2024 (AECOM 2024d)

## 1.2 Project Overview and Reservoir

Figure 1-1 shows the location of Sites Reservoir and the various dams to be constructed to form the reservoir. Table 1-1 outlines key aspects of the reservoir for the Reservoir Engineering Contract (HR).

The Sites Reservoir Project is described in the 30% Basis of Design Report (AECOM 2024d). Water in Sites Reservoir would be impounded by the Golden Gate Dam on Funks Creek, the Sites Dam on Stone Corral Creek, and by a series of saddle dams and dikes along the eastern and northern rims of the reservoir. The reservoir would be filled through conveyance facilities from the Glen-Colusa Canal and the Tehama Colusa Canal to the east of the reservoir that connect to the reservoir I/O works situated to the south of Golden Gate Dam. The I/O works would also be used to make releases from Sites Reservoir back to the canals. The I/O works structure includes a tunnel through the ridge, a sloping intake in the reservoir that would control flows, and a system of piping connecting the downstream tunnel portals to the pumping facilities. Releases to or from the reservoir would be made through an array of gated outlet ports in the intake, arranged at various elevations to accommodate varying reservoir water levels and to regulate outlet water temperature.

In the reservoir area, demolition and removal of the town of Sites and various ranch buildings in the reservoir area would be required, along with the removal of metal fencing, asphalt-concrete paving, overhead utilities, and other buildings. Water wells would be closed, septic tanks would be removed, and proper plugging of existing gas exploration wells would be verified. Trees would be removed within 1 foot of grade in all areas below the normal maximum operating water surface. Stumps will not be removed.

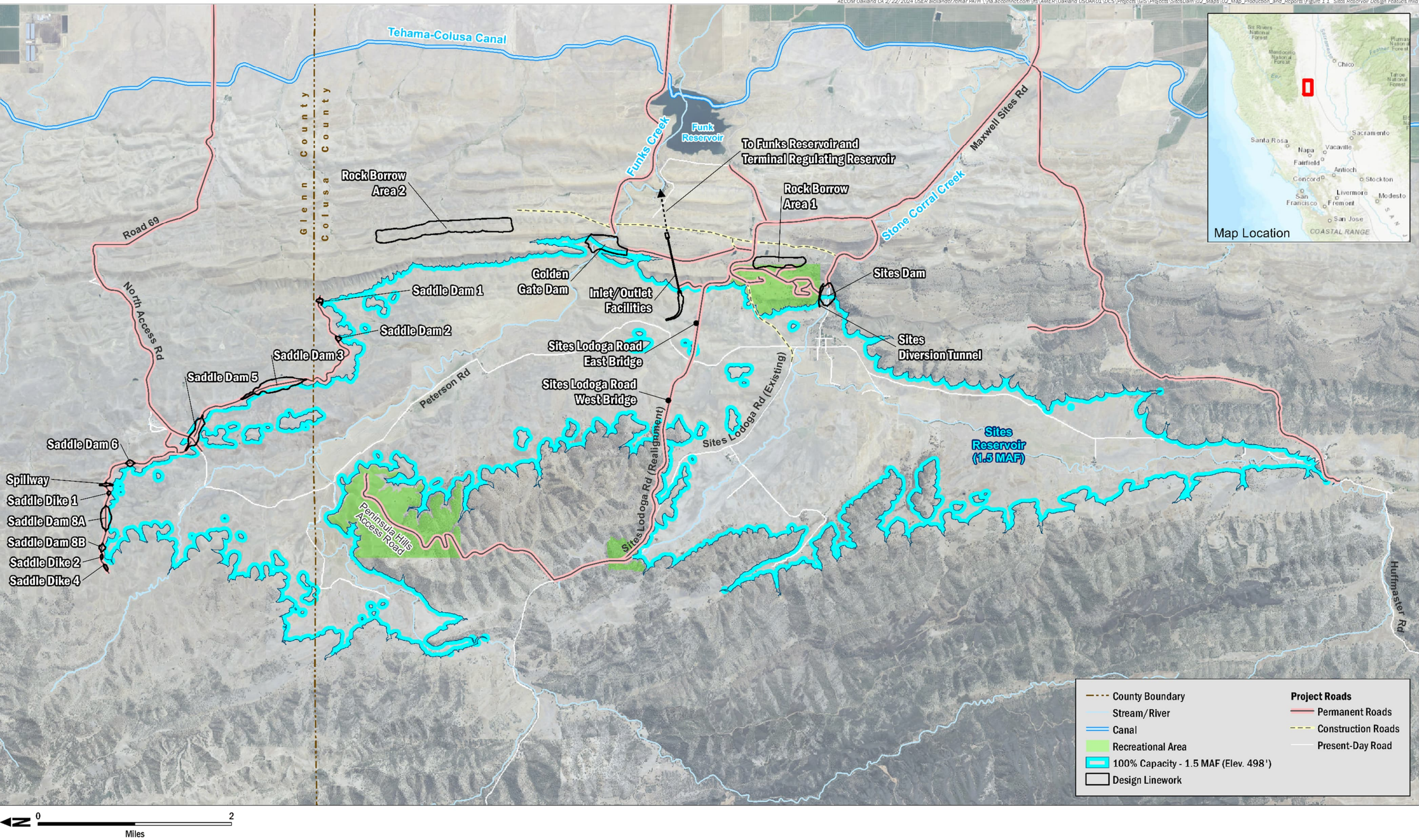


Figure 1-1 Sites Reservoir Facilities

Table 1-1 Sites Reservoir Characteristics

|                                                                                                                                                                          |                                                                         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| Total Storage Capacity                                                                                                                                                   | 1.47 million acre-feet                                                  |
| Approximate Inundation Area                                                                                                                                              | 13,200 acres                                                            |
| Dam/Saddle Dam Crest Elevation (Without Camber)                                                                                                                          | 517 feet                                                                |
| Dam heights (approximate maximum height above streambed, crest to downstream toe):<br>Sites Dam<br>Golden Gate Dam<br>Seven saddle dams, three saddle dikes and spillway | 270 feet<br>290 feet<br>6 to 107 feet                                   |
| Normal Maximum Operating Water Elevation                                                                                                                                 | 498 feet                                                                |
| Minimum Operating Water Elevation                                                                                                                                        | 340 feet                                                                |
| Top of Dead Pool Elevation                                                                                                                                               | Inlet/outlet facility: 300 feet<br>Sites Dam Diversion Outlet: 275 feet |
| Inlet/Outlet Facilities Conveyance Tunnel Dia./Length                                                                                                                    | 18.5 feet/3,157 feet                                                    |
| Sites Diversion Tunnel Dia./Length                                                                                                                                       | 14.5 feet/1,318 feet                                                    |
| Site Lodoga Road Elevations                                                                                                                                              | 502.5                                                                   |
| Sites-Lodoga Road and Two Bridges                                                                                                                                        | 6.2 miles                                                               |

This 30 percent cost estimate TM covers the reservoir facilities shown on Figure 1-1:

- Main dams, saddle dams and dikes, and reservoir rim: The Sites Reservoir dams include two main rockfill dams—the Golden Gate Dam (on Funks Creek) and Sites Dam (on Stone Corral Creek)—along with earthfill saddle dams and dikes on the reservoir rim at the top of tributaries to the Hunters Creek drainage.
- Spillway: This structure is a concrete overflow spillway on the north reservoir rim that would discharge into Hunters Creek to the north.
- I/O Works: This facility includes a sloping intake structure with multiple intake levels connected to an I/O tunnel. These provide for normal reservoir operation and for making about half of the emergency reservoir releases. The tunnel connects to reservoir conveyance pipelines (HC contract) at the downstream tunnel portal.
- Sites diversion outlet: The diversion tunnel would run through the left abutment of Sites Dam; it would be used initially for diversion of water around Sites Dam site during construction and subsequently for stream releases and approximately half of the emergency reservoir releases to Stone Corral Creek after construction.

- Golden Gate diversion: A 4-foot-diameter steel pipe, encased in reinforced concrete, would be installed in the foundation of Golden Gate Dam and, utilizing a cofferdam, would be used to divert flows to Funks Creek during construction. At the completion of construction, the diversion would be abandoned by plugging the steel pipe with concrete.
- Roads: Roads include new construction and improvements to several local roads, maintenance roads, and construction access roads.
- Sites Lodoga Road Bridges: Two bridges joined with fill prisms are used to cross over the reservoir, replacing Sites-Lodoga Road. The bridges provide an east-west connection from the rural communities of Maxwell, Lodoga, and Stonyford. Several smaller bridges are included in the estimate.

### 1.3 Purpose and Scope

The purpose of this TM is to present a Class 3, 30 percent (an Opinion of Probable Construction Cost [OPCC]) cost estimate, as defined by the Association for the Advancement of Cost Engineering (AACE) (AACE 2020).

Project costs in this TM include direct construction costs (labor, materials, equipment, and subcontractors), mobilization/demobilization, field overhead, insurance and bond, home office overhead, and contractor profit), design and construction contingencies.

### 1.4 Limitations

The scope of work for this TM was restricted to the development of the 30 percent construction cost estimate for the Sites Reservoir under the Reservoir (HR) contract. Conveyance facilities are separately considered in a companion TM for the HC contract. Owner's costs that include non-contract costs, mitigation and lands are separately considered and are not included in this TM.

Although this estimate is classified as an AACE Class 3 estimate, it is noted that there is limited and less than typical supporting geotechnical data available at this time. Accordingly, the accuracy of this estimate should be considered to be at the maximum range (+30/-20 percent) for this level of estimate.

The information presented in this TM is based on available geotechnical investigation data, including:

- California Department of Water Resources data for their 2003 studies, and
- Current data from the Sites geotechnical investigation program that will be incorporated into a Geotechnical Data Report.

Due to limitations of access, the current data collection has been limited. For example, no recent data could be collected at Golden Gate Dam, the saddle dams, or the I/O facility; and only limited data could be collected at Sites Dam and the borrow locations.

At Sites Dam, approximately 60 percent of the data for preliminary design could be collected; for the rock and core borrow areas, and approximately 10 percent of the data for preliminary design could be collected. Overall, about 15 percent of the data for preliminary design was able to be collected for Sites Dam. Golden Gate Dam, the saddle dams, and I/O structure rely on the California Department of Water

Resources 2003 geotechnical investigations. As a result, AECOM made significant assumptions about the subsurface conditions and materials available for dam construction. The assumptions were based on limited data, interpretation, and judgment. The subsurface conditions and materials for construction may differ significantly from what is assumed and will need to be thoroughly investigated and revised as the design progresses.

In addition, because there has been no access to assess demolition requirements within the reservoir footprint, we have used aerial photographs to identify demolition activities and develop estimated costs. No Phase 1 assessment has been completed to identify the potential presence of hazardous materials/wastes.

Due to the above-described limitations, the cost estimate presented in this TM is necessarily a qualified Class 3 estimate.

The 30 percent cost estimate is based on the current design, standard industry practice, professional experience, and knowledge of the local construction market costs; and represents AECOM's judgment as a professional construction consultant familiar with the construction industry. The intention of this estimate is to reflect fair market value for the construction; it is not a prediction of the low bid. AECOM has no control over the material and labor costs, contractors' methods of establishing prices, or the market and bidding conditions at the time of bid. AECOM does not guarantee that the bids received will not vary from this 30 percent cost estimate.

AECOM represents that our services were conducted in a manner consistent with the standard of care ordinarily applied as the state of practice in the profession, within the limits prescribed by our client.

This TM is intended for the sole use of the Authority. The scope of services performed may not be appropriate to satisfy the needs of other users, and any use or re-use of this document or of the findings, conclusions, or recommendations presented herein is at the sole risk of said user.

## 2.0 30 Percent Cost Estimate Summary – HR Facilities

### 2.1 AECOM Estimate

The estimated 30 percent costs for the HR facilities are summarized below in Table 2-1. Estimated costs shown in the table have an accuracy range of +30 percent/-20 percent. This means the actual costs may be as much as 30 percent higher or 20 percent lower than the estimated cost.

The current plan is to deliver the Sites Project using the CMAR approach. Total costs include direct construction costs, general conditions mobilization/demobilization, field overhead, insurance and bond, home office overhead and contractor profit, design and construction contingencies in March 2024 dollars. The 30 percent cost estimate details are included in Appendix A-1.

The distribution of construction costs among the various reservoir features is presented in Figure 2-1.

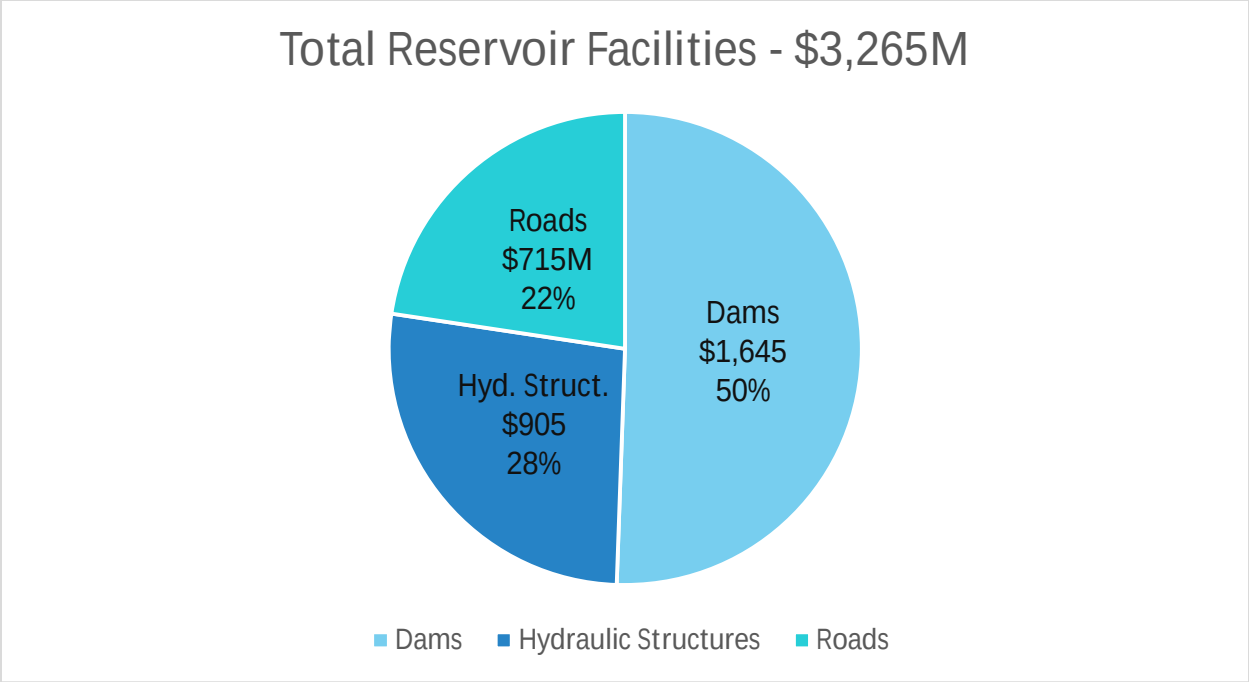


Figure 2-1 Distribution of Construction Costs Among Various Reservoir Features (March 2024 Dollars)

Table 2-1 Cost Estimate Summary (March 2024 Dollars)

| WBS # | Description                                                                            | A - Direct Cost | B - Contractor Indirects, OH&P | C - Construction Cost Prior to Contingencies<br>C=A+B | D - Design Contingency | E - Construction Contingency | F - Total Contingency<br>F=D+E | G - Recommended Construction Budget before Escalation<br>G=C+F |
|-------|----------------------------------------------------------------------------------------|-----------------|--------------------------------|-------------------------------------------------------|------------------------|------------------------------|--------------------------------|----------------------------------------------------------------|
| 20    | Site Demolition and Clearing Work                                                      | 23,100,000      | 8,200,000                      | 31,300,000                                            | 7,800,000              | 5,900,000                    | 13,700,000                     | 45,000,000                                                     |
| 21    | Golden Gate Dam                                                                        | 372,600,000     | 176,800,000                    | 549,400,000                                           | 93,000,000             | 96,400,000                   | 189,300,000                    | 738,700,000                                                    |
| 21A   | Golden Gate Dam                                                                        | 365,200,000     | 174,100,000                    | 539,300,000                                           | 91,700,000             | 94,600,000                   | 186,300,000                    | 725,600,000                                                    |
| 21B   | Golden Gate Access Road                                                                | 5,200,000       | 1,800,000                      | 7,000,000                                             | 900,000                | 1,200,000                    | 2,100,000                      | 9,100,000                                                      |
| 21C   | I/O Access Road                                                                        | 2,300,000       | 800,000                        | 3,100,000                                             | 400,000                | 500,000                      | 900,000                        | 4,100,000                                                      |
| 22    | Sites Dam and Diversion                                                                | 278,700,000     | 132,600,000                    | 411,300,000                                           | 70,000,000             | 72,200,000                   | 142,200,000                    | 553,400,000                                                    |
| 22A   | Sites Dam                                                                              | 138,500,000     | 66,000,000                     | 204,500,000                                           | 31,300,000             | 35,400,000                   | 66,700,000                     | 271,200,000                                                    |
| 22B   | Sites Diversion                                                                        | 138,100,000     | 65,800,000                     | 203,900,000                                           | 38,300,000             | 36,300,000                   | 74,700,000                     | 278,500,000                                                    |
| 22C   | Sites Access Road                                                                      | 2,100,000       | 700,000                        | 2,800,000                                             | 400,000                | 500,000                      | 800,000                        | 3,700,000                                                      |
| 23    | Saddle Dam 3                                                                           | 144,400,000     | 68,800,000                     | 213,200,000                                           | 37,500,000             | 37,600,000                   | 75,100,000                     | 288,300,000                                                    |
| 24    | Saddle Dam 5                                                                           | 65,900,000      | 31,400,000                     | 97,200,000                                            | 17,100,000             | 17,200,000                   | 34,300,000                     | 131,500,000                                                    |
| 25    | Other Saddle Dams, Dikes and Spillway                                                  | 91,400,000      | 43,600,000                     | 135,000,000                                           | 23,800,000             | 23,800,000                   | 47,600,000                     | 182,500,000                                                    |
| 26    | Inlet-Outlet Facility                                                                  | 310,000,000     | 147,800,000                    | 457,800,000                                           | 86,100,000             | 81,600,000                   | 167,600,000                    | 625,400,000                                                    |
| 27    | Road Work – Public including SLR Reroute, Recreation, Maintenance, Construction Access | 389,800,000     | 150,600,000                    | 540,400,000                                           | 68,600,000             | 91,400,000                   | 160,000,000                    | 700,400,000                                                    |
| 27.1  | Public Roads                                                                           | 290,400,000     | 115,300,000                    | 405,700,000                                           | 51,500,000             | 68,600,000                   | 120,100,000                    | 525,800,000                                                    |
| 27.1A | Temporary Sites Lodoga Road Detour                                                     | 30,700,000      | 10,900,000                     | 41,600,000                                            | 5,300,000              | 7,000,000                    | 12,300,000                     | 53,900,000                                                     |
| 27.1B | Sites Lodoga Road                                                                      | 125,500,000     | 44,500,000                     | 170,000,000                                           | 21,600,000             | 28,700,000                   | 50,300,000                     | 220,300,000                                                    |
| 27.1C | Sites Lodoga Bridges                                                                   | 100,900,000     | 48,100,000                     | 149,000,000                                           | 18,900,000             | 25,200,000                   | 44,100,000                     | 193,000,000                                                    |
| 27.1D | Huffmaster Road                                                                        | 14,700,000      | 5,200,000                      | 20,000,000                                            | 2,500,000              | 3,400,000                    | 5,900,000                      | 25,900,000                                                     |
| 27.1E | Roads 68, D, and 69                                                                    | 11,500,000      | 4,100,000                      | 15,600,000                                            | 2,000,000              | 2,600,000                    | 4,600,000                      | 20,200,000                                                     |
| 27.1F | Delevan Road                                                                           | 7,100,000       | 2,500,000                      | 9,600,000                                             | 1,200,000              | 1,600,000                    | 2,900,000                      | 12,500,000                                                     |
| 27.2  | Recreation Roads – Peninsula Hills, Stone Corral, Boat Ramp                            | 8,900,000       | 3,200,000                      | 12,100,000                                            | 1,500,000              | 2,000,000                    | 3,600,000                      | 15,700,000                                                     |
| 27.3  | Operations and Maintenance Roads                                                       | 69,700,000      | 24,700,000                     | 94,500,000                                            | 12,000,000             | 16,000,000                   | 28,000,000                     | 122,500,000                                                    |
| 27.3A | Funks Construction Access                                                              | 46,000,000      | 16,300,000                     | 62,400,000                                            | 7,900,000              | 10,500,000                   | 18,500,000                     | 80,900,000                                                     |

| WBS # | Description                                                       | A - Direct Cost | B - Contractor Indirects, OH&P | C - Construction Cost Prior to Contingencies<br>C=A+B | D - Design Contingency | E - Construction Contingency | F - Total Contingency<br>F=D+E | G - Recommended Construction Budget before Escalation<br>G=C+F |
|-------|-------------------------------------------------------------------|-----------------|--------------------------------|-------------------------------------------------------|------------------------|------------------------------|--------------------------------|----------------------------------------------------------------|
| 27.3B | Comm Road                                                         | 1,100,000       | 400,000                        | 1,500,000                                             | 200,000                | 300,000                      | 400,000                        | 1,900,000                                                      |
| 27.3C | North Access Road                                                 | 13,500,000      | 4,800,000                      | 18,300,000                                            | 2,300,000              | 3,100,000                    | 5,400,000                      | 23,700,000                                                     |
| 27.3D | Saddle Dam Roads                                                  | 7,800,000       | 2,800,000                      | 10,500,000                                            | 1,300,000              | 1,800,000                    | 3,100,000                      | 13,600,000                                                     |
| 27.3E | Funks PGP Access Road                                             | 1,300,000       | 500,000                        | 1,800,000                                             | 200,000                | 300,000                      | 500,000                        | 2,300,000                                                      |
| 27.4  | Construction Roads – Agg Route, Borrow 2, and Hook Ramp Connector | 20,800,000      | 7,400,000                      | 28,100,000                                            | 3,600,000              | 4,800,000                    | 8,300,000                      | 36,400,000                                                     |
|       | Total - March 2024                                                |                 |                                |                                                       |                        |                              |                                | 3,265,200,000                                                  |
|       | Estimated Range - Low (20%)                                       |                 |                                |                                                       |                        |                              |                                | 2,612,200,000                                                  |
|       | Estimated Range - High (+30%)                                     |                 |                                |                                                       |                        |                              |                                | 4,244,800,000                                                  |

I/O = inlet/outlet

OH&P = overhead and profit

PGP = pump-generation plant

SLR = Sites-Lodoga Road

## 2.2 Summary of Cost Changes

For background and comparison, the cost summary in Table 2-2 starts with the 2021 feasibility cost in 2021 dollars at \$2.02 billion, then escalated to 2024 dollars (1.22 inflation factor), which brings the estimate to \$2.46 billion. Design progression includes quantity changes, unit price changes, and scope changes (1.16 multiplier), which brings the total to \$2.85 billion. For example, design progression quantity changes include additional foundation grouting; unit price changes include cost of material due to change in haul distances (i.e., not due to escalation); and scope changes include the Sites-Lodoga Road detour, aggregate haul route, and Funks construction access. We are classifying the 16 percent as design progression.

Increases to indirect costs and overhead and profit (OH&P) resulting from evaluation of indirect percentages due to changes in market conditions, based on recent water storage projects, which results in a 1.08 multiplier bringing the total to \$3.08 billion. A design contingency evaluation was performed that resulted in a multiplier of 1.06, bringing the total anticipated HR construction cost to \$3.27 billion. The bottom-line estimate is shown in Table 2-2 with the low and high accuracy range (-20 percent/+30 percent).

Table 2-2 Summary of Cost Changes

| Estimate Item                                 | Increase<br>(Multiplier/<br>Factor) | Differential<br>Cost (\$B) | Estimate<br>Cost (\$B) | Notes                                                                               |
|-----------------------------------------------|-------------------------------------|----------------------------|------------------------|-------------------------------------------------------------------------------------|
| 2021 Feasibility Cost Estimate (2021 dollars) |                                     |                            | 2.02                   | Total feasibility construction cost without non-contract costs. See footnote below. |
| Escalation (to 2024 dollars)                  | 1.22                                | 0.44                       | 2.46                   | USBR Composite Index used (see Section 6.4.1)                                       |
| Design Progression                            | 1.16                                | 0.39                       | 2.85                   | Changes in quantities, scope, and unit rates                                        |
| Market Conditions                             | 1.08                                | 0.23                       | 3.08                   | Market condition including indirect costs and OH&P                                  |
| Contingency Assessment                        | 1.06                                | 0.18                       | 3.27                   | Design contingency evaluation (Appendix D)                                          |
| Estimated 30% Total Construction Cost         |                                     | 1.25                       | 3.27                   | AACE Class 3 (2024 dollars)                                                         |
| Estimated Range – Low (-20%)                  |                                     |                            | 2.61                   |                                                                                     |
| Estimated Range – High (+30%)                 |                                     |                            | 4.24                   |                                                                                     |

AACE = Association for the Advancement of Cost Engineering

OH&P = overhead and profit

2021 Cost Estimate = \$2.35B / 1.165 to remove non-contract costs = \$2.02B without non-contract costs

The effect of a CMAR procurement and project execution approach is reflected in both direct and indirect costs and OH&P, and can increase by around 7.5 to 15 percent on the initial cost. We note that, although the initial costs may be increased over the design-bid-build approach, the CMAR approach offers improvement on price certainty, risk reduction or sharing, early contractor involvement, earlier

value engineering, earlier procurement of long lead items, initial open book for future negotiations, and reduced claims potential that may result in increased overall project cost.

### 3.0 Class of Estimate

Table 3-1 shows that the range of expected accuracy for the cost estimates decreases with increasing project definition and design stage, from AACE Class 5 to Class 1. This 30 percent estimate is classified as a Class 3 estimate. Class 3 estimates are generally prepared based on limited information and subsequently have fairly wide accuracy ranges. They are typically used for budget authorization, when engineering is from 10 percent to 40 percent complete.

Table 3-1 shows that the cost at award can reasonably be expected to fall within a range from 10 percent to 20 percent below to 10 percent to 30 percent above the Class 3 estimate. Although this is classified as an AACE Class 3 estimate, it is noted that there are limited supporting geotechnical data available. Consequently, the accuracy of this estimate should be considered to be at the maximum range for this level of estimate. The estimated cost range is therefore expected to be in the range of +30 percent/-20 percent, as stated in Section 2.0. This AACE estimate class and accuracy range is also consistent with the HC facilities.

Table 3-1 Project Definition and Expected Accuracy Range by Estimate Class

| Project Definition<br>(% of complete<br>definition) | AACE Estimate<br>Class | End Usage of Estimate<br>(Purpose of estimate) | Expected Accuracy Range<br>(Typical variation in low and<br>high ranges) |
|-----------------------------------------------------|------------------------|------------------------------------------------|--------------------------------------------------------------------------|
| 0% to 2%                                            | 5                      | Concept screening                              | L: -20% to -50%<br>H: +30% to +100%                                      |
| 1% to 15%                                           | 4                      | Study or feasibility                           | L: -15% to -30%<br>H: +20% to +50%                                       |
| 10% to 40%                                          | 3                      | Budget authorization or control                | L: -10% to -20%<br>H: +10% to +30%                                       |
| 30% to 75%                                          | 2                      | Control or bid/tender                          | L: -5% to -15%<br>H: +5% to +20%                                         |
| 65% to 100%                                         | 1                      | Check estimate or bid/tender                   | L: - 3% to -10%<br>H: +3% to + 15%                                       |

Based on AACEI 18R-97 and AACE 2020.

AACE = Association for the Advancement of Cost Engineering

### 4.0 General Approach

AECOM performed this construction cost estimate using its own proprietary software, which was used for the 2021 feasibility-level estimate. The software uses a crew-based approach for which each activity is assigned a crew, consisting of equipment and associated labor. This crew is assigned a production rate. Materials are added to each activity and included in the unit rates.

As an independent check, our subconsultant cost estimator (Integrated Engineering and Construction [IEC]) performed a separate estimate using “HCSS *HeavyBid*” (2024) construction estimating software, which is included in Appendix A-2. This independent estimate pertained to the direct construction costs for the dams, Sites Diversion, and the I/O Facility, which account for about 75 percent of the total direct

construction cost. The results of this independent check, summarized in Table 4-1 by project feature, show that AECOM's estimate is 5.6 percent greater than IEC's independent estimate, which is an acceptable range.

Table 4-1 Comparison of AECOM's and IEC's Direct Construction Cost Estimates

| WBS | Description                | AECOM         | IEC             | AECOM/IEC |
|-----|----------------------------|---------------|-----------------|-----------|
| 21A | Golden Gate Dam            | 365,200,000   | \$362,100,000   | 0.9%      |
| 22A | Sites Dam                  | 138,500,000   | \$127,000,000   | 9.1%      |
| 22B | Sites Diversion            | 138,100,000   | \$141,200,000   | -2.2%     |
| 23  | Saddle Dam 3               | 144,400,000   | \$137,000,000   | 5.4%      |
| 24  | Saddle Dam 5               | 65,900,000    | \$63,400,000    | 3.9%      |
| 25  | Other Saddles and Spillway | 91,400,000    | \$81,200,000    | 12.6%     |
| 26  | Inlet-Outlet Facility      | 310,000,000   | \$274,600,000   | 12.9%     |
|     | Total Direct Cost          | 1,253,500,000 | \$1,186,500,000 | 5.6%      |

IEC = Integrated Engineering and Construction

AECOM developed the 30 percent cost estimate for the Sites Reservoir based on an assumed work approach and considering design and quantity information available. We reviewed the labor, material, and equipment requirements for each facility; and we considered several sources for our costs, including but not limited to active projects, internal historic rate data, contractor's quotes, and other sources such as Caltrans (2021).

The work will be executed by the selected CMAR, and their execution approach and work breakdown structure (WBS) is unknown. Typically, under a CMAR, preconstruction activities would include an agreed WBS with the Project Team. The estimate is segregated by the work packages shown below:

- Demolition and Clearing Work
- Dams
  - o Golden Gate, including temporary diversion
    - Golden Gate may be further subdivided into excavation package and dam package
  - o Sites Dam
    - Dam
    - Sites Diversion Tunnel
  - o Saddle Dams, dikes and spillway, which could be one package or multiple packages
- I/O, including intake channel, portals, and sloping intake
- Roadway Construction
  - o Multiple contracts grouped logically by road type, location, and overall schedule
  - o Sites-Lodoga Road Bridge Construction

Each work package carries its own field and home office overhead, insurance, and profit, including any temporary site access. The packages include mobilization, demobilization, and repair and “make good” of permanent facilities (public roads) affected by their operations.

Field and home office overhead are calculated independently for each work package (project), based on anticipated method of contracting, procurement, and execution.

## 5.0 Direct Cost

Direct cost includes labor, material, equipment, and subcontractor costs applied to measured units by work breakdown item.

Direct costs are based on reasonable crew mixes and construction approaches, using estimator judgment to establish a basis for a composite assembly cost as defined by AACE Class 3 estimating requirements. It is recognized that, at the preliminary (30 percent) level, the design has not been progressed to identify all components or the optimum method of construction, and that there are many potential alternative approaches to developing crews, equipment selection, and materials that can be further evaluated in the future as the level of design detail increases and contract packaging is further refined.

### 5.1 Labor

Labor rates are based on the California Department of Industrial Relations bulletins. These rates are current at the time of the estimate (rates expired in June 2024). These rates included base wage and overtime, employee benefits, payroll tax, workers’ compensation; and an allowance for safety training, small tools, and accounting. Due to anticipated competition from other projects, we have included a tiered craft subsistence, which amounts to an average of \$125 per day per person, which is carried in the wage rate. Rates do not include profit, which is calculated separately. Labor rates are listed in Appendix B.

Allowances for overtime and shift pay are included in the wage rates because specific tasks, such as embankment construction during the dry season or mass placements of concrete, will require extended working hours. The contractor may elect to work crews for extended hours or multiple shifts to achieve economies in other areas. To allow for these costs or contractor “means and methods,” the estimate is based on a schedule of six 10-hour-shifts and includes an allowance for night shift work as appropriate.

The site location is assumed to be within normal commute range for construction workers in California. Consequently, workforce housing, per-diems above the subsistence allowance, or other commute incentives, are not included.

### 5.2 Materials

Quotes were solicited for mechanical equipment such as gates, large valves, and hydraulic power units; major piping components such as the I/O piping, diversion piping, and steel tunnel liners; and aggregates required for the filters, drains, road base, and asphalt.

Bulk material pricing, such as rebar, is based on current market pricing.

Material costs include the direct cost of material, freight, and delivery; free-on-board jobsite/work location; and sales tax (Colusa County sales tax is 7.75 percent).

Concrete pricing is based on standard transit mix (ready-mix). Concrete may be procured by the contractor using standard transit mix delivery or batched on site, at their election.

### 5.3 Equipment

Multiple construction equipment rate sources have been reviewed, including the California Department of Transportation, United States Army Corps of Engineers, recent reference projects, and rates from independent consultants. The rates were compared and the estimate uses a blended rate because all rate sources have low and high outliers, which are not accurate. The equipment rates include cost of ownership, fuel, lubrication, parts and wear, and maintenance and repair costs. The rates do not include labor to operate, mobilization, or profit. Equipment rates are listed in Appendix C. Contractors have varied approaches to establish internal or company-owned equipment rates. For large projects, buy, sell or salvage at project completion, or third party fleet rentals are often considered. Third-party rentals may be used for short-term or specialized equipment. The estimate assumes contractor-owned equipment rates.

Delivery to and from work location, as well as assembly and disassembly, are included in the mobilization demobilization cost.

### 5.4 Subcontractors

Subcontractor costs include the selling price to the CMAR, including all subcontractor overhead, profit, etc.

The CMAR may elect to have portions of the work performed by subcontractors. The estimate assumes that the following work will be subcontracted: grouting, tunneling, installation of anchors and rock bolts, demolition of existing facilities, clearing, mechanical, electrical, and instrumentation.

### 5.5 Unlisted Item Allowance

Unlisted items allowance has been included to address specific and reasonably foreseeable direct cost scope items that lack definition for estimating at this time. These items will be developed as the design progresses; we are including a 5 percent allowance on all scopes of work.

## 6.0 Contractor Indirect Costs, Contractor Overhead and Profit, and Contingencies

Table 6-1 summarizes indirect costs, contractor OH&P, and contingencies. These items will need to be revisited in future estimates due to changes in market conditions, such as competition from other major water projects in California.

Table 6-1 Indirect Costs, OH&amp;P, and Contingencies

| Feature                                           | Demolition | Golden Gate Dam | Sites Dam | Saddle Dams | I/O and Diversion | Road Work | Bridges   |
|---------------------------------------------------|------------|-----------------|-----------|-------------|-------------------|-----------|-----------|
| Contractor Indirect Costs:                        |            |                 |           |             |                   |           |           |
| Mobilization                                      | 3%         | 5%              | 5%        | 5%          | 5%                | 3%        | 5%        |
| Field Overhead Costs (GC&GR)                      | 12.5%      | 17%             | 17%       | 17%         | 17%               | 12.5%     | 17%       |
| Insurance                                         | 2%         | 2%              | 2%        | 2%          | 2%                | 2%        | 2%        |
| Bonds                                             | 0.6%       | 0.6%            | 0.6%      | 0.6%        | 0.6%              | 0.6%      | 0.6%      |
| OH&P:                                             |            |                 |           |             |                   |           |           |
| Home Office Overhead (General and Administrative) | 5.5%       | 6.5%            | 6.5%      | 6.5%        | 6.5%              | 5.5%      | 6.5%      |
| Profit                                            | 8%         | 10%             | 10%       | 10%         | 10%               | 8%        | 10%       |
| Contingencies:                                    |            |                 |           |             |                   |           |           |
| Design Contingency (Appendix D)                   | 25.0%      | 17.0%           | 15.3%     | 17.6%       | 18.8%             | 12.7%     | 12.7%     |
| Construction Contingency                          | 15%        | 15%             | 15%       | 15%         | 15%               | 15%       | 15%       |
| Escalation                                        | By Others  | By Others       | By Others | By Others   | By Others         | By Others | By Others |
| Recommended Construction Budget (Appendix A-1)    |            |                 |           |             |                   |           |           |
| Non-Contract Costs                                | By Others  | By Others       | By Others | By Others   | By Others         | By Others | By Others |
| Environmental Mitigation                          | By Others  | By Others       | By Others | By Others   | By Others         | By Others | By Others |
| Total Cost Estimate (Appendix A-1)                |            |                 |           |             |                   |           |           |

GC&amp;GR = general conditions and general requirements

I/O = inlet/outlet

OH&amp;P = overhead and profit

## 6.1 Contractor Indirect Costs

### 6.1.1 Mobilization/Demobilization

Mobilization/demobilization is priced separately as a percentage allowance, using 3 percent to 5 percent across all packages.

Mobilization (ranging from 2 percent to 4 percent) refers to all costs associated with individual package set-up, including:

- preparation of initial submittals;
- initial site survey and inspection;
- existing condition documentation and site acceptance by contractor and owner;
- installation of temporary facilities, including fencing, temporary erosion and sedimentation control, safety provisions, and staging areas; and
- equipment and material staging/move-on.

Demobilization (1 percent) includes all costs associated with individual project clean-up and demobilization, including:

- final site surveys and inspections;
- work area clean-up and removal of debris;
- demolition of all temporary facilities;
- restoration and rehabilitation of disturbed areas; and
- project close-out documentation, warranties, operation manuals, etc.

### 6.1.2 Field Overhead (General Conditions and General Requirements)

Field Overhead includes all costs incurred by the CMAR in managing and running the site in the field, including:

- field/site set-up and accommodation;
- management, supervision, and field engineering;
- personnel travel and lodging;
- safety and protection;
- construction aids, equipment, and tools;
- temporary construction;
- environmental requirements;
- quality control, inspection, and testing (CMAR will perform quality control testing and the Authority will perform quality assurance testing.); and
- maintenance and housekeeping.

The field overhead costs of the contract are estimated to be 12.5 percent to 17 percent of the direct construction cost for all packages.

### 6.1.3 Insurance

Insurance refers to contractor-provided insurance, including public liability/property damage and general liability coverage. Insurance is set at 2 percent for all packages. Insurance carried by the owner, including property, fire, and all risk, is excluded.

### 6.1.4 Bonds

Bonds refers to contractor-provided bonds, including performance and payment bonds. The pricing assumes that bonds will be adjusted to reflect actual value at risk. Bonds are set at 0.6 percent for all projects.

## 6.2 Contractor Overhead and Profit

### 6.2.1 Home Office Overhead (General and Administrative)

Home office overhead includes all cost allocations for the contractor's home office expenses, whether directly related to the project (accounting, billing, reporting, etc.) or allocated as a proration of home office expenses. For this estimate, it is assumed that most engineering, legal, and accounting work will be provided in the field. Actual cost distribution will be at the discretion of the contractor. Subcontractor overhead is included in the direct cost lines for subcontractors. Home office overhead is set at 5.5 percent to 6.5 percent for all projects.

### 6.2.2 Profit

Profit will depend on competition, and for this 30 percent construction cost estimate, it is set at 10 percent for the dam, the I/O, and diversion facilities; and at 8 percent for all other work. Subcontractor profit is included in the direct cost line items for subcontractors.

## 6.3 Contingencies

Contingencies and allowances have been estimated to account for uncertainty related to undefined scope items within the current design in this 30 percent cost estimate.

### 6.3.1 Design Contingencies

The 30 percent cost estimate includes items, quantities, requirements, and constraints that have not been fully identified, or are not fully investigated or designed. In later stages of design, the scope of the project also tends to expand as more detail is developed and regulatory agencies undertake more detailed reviews. To account for the items that have not yet been fully developed, a design contingency allowance has been included in the 30 percent cost estimates.

The amount of design contingency reflects the degree of uncertainties, particularly with respect to geotechnical and topographical conditions, as well as the completeness of the design detail for the major categories. The design contingency is based on, and added to, the subtotal of construction costs because it represents an unknown portion of the total estimated construction cost. The recommended design contingency normally decreases as the project design advances, more information becomes available, project requirements become better defined, and more design detail is captured in the subtotal of construction costs.

For the 30 percent estimate, design contingencies were estimated based on a review of the cost drivers, design basis, identification of risks, and probability of risk. Each major category including dams, hydraulic structures, and roads were evaluated. Dams were further subdivided between Golden Gate, Sites, and Saddle dams.

To estimate the design contingency the process below was established. The design basis of each cost driver was reviewed, a risk and parameters were established, the risk cost was estimated, and a probability was assigned. Ultimately the risk cost was multiplied by the probability and the product was carried as a design contingency. The design contingencies are summarized in Table 6-2 for each of the categories/work packages for the reservoir construction. Appendix D presents the details of the design contingency development.

Table 6-2 Design Contingency Summary

| Design Contingency Calculation | 30% Estimate Cost | Risk Cost     | Probability | Contingency (Factored Risk) | Percent of 30% Estimate |
|--------------------------------|-------------------|---------------|-------------|-----------------------------|-------------------------|
| Category                       | A                 | B             | C           | B x C = D                   | D / A = E               |
| Demolition                     | 31,300,000        | 15,650,000    | 50.0%       | 7,825,000                   | 25.0%                   |
| Geotechnical                   |                   | 399,800,000   | 18.3%       | 73,300,000                  | 13.6%                   |
| Design/Regulatory              |                   | 98,300,000    | 18.7%       | 18,400,000                  | 3.4%                    |
| Golden Gate Dam                | 539,300,000       | 498,100,000   | 18.4%       | 91,700,000                  | 17.0%                   |
| Geotechnical                   |                   | 152,800,000   | 17.0%       | 26,000,000                  | 12.7%                   |
| Design/Regulatory              |                   | 31,000,000    | 16.8%       | 5,200,000                   | 2.5%                    |
| Sites Dam                      | 204,500,000       | 183,800,000   | 17.0%       | 31,200,000                  | 15.3%                   |
| Geotechnical                   |                   | 257,700,000   | 23.1%       | 59,600,000                  | 13.4%                   |
| Design/Regulatory              |                   | 105,000,000   | 17.9%       | 18,800,000                  | 4.2%                    |
| Saddle Dams                    | 445,400,000       | 362,700,000   | 21.6%       | 78,400,000                  | 17.6%                   |
| Dams                           | 1,189,200,000     | 1,044,600,000 | 19.3%       | 201,300,000                 | 16.9%                   |
| Geotechnical                   |                   | 306,600,000   | 23.2%       | 71,000,000                  | 10.8%                   |
| Design/Regulatory              |                   | 194,400,000   | 26.9%       | 52,300,000                  | 8.0%                    |
| Hydraulic Structures           | 656,800,000       | 501,000,000   | 24.6%       | 123,300,000                 | 18.8%                   |
| Geotechnical                   |                   | 60,800,000    | 25.0%       | 15,200,000                  | 2.8%                    |
| Design/Regulatory              |                   | 223,700,000   | 24.1%       | 53,900,000                  | 9.9%                    |
| Roads and Bridge               | 544,500,000       | 284,500,000   | 24.3%       | 69,100,000                  | 12.7%                   |
| Geotechnical                   |                   | 1,177,700,000 | 20.8%       | 245,100,000                 | 10.1%                   |
| Design/Regulatory              |                   | 668,050,000   | 23.4%       | 156,425,000                 | 6.5%                    |
| Reservoirs Package             | 2,422,000,000     | 1,845,750,000 | 21.8%       | 401,525,000                 | 16.6%                   |

The list below provides an example of the process that was repeated for each risk in each category/work package. The example below illustrates the design contingency development for the Golden Gate Dam foundation excavation depth:

1. Design basis – Average excavation depth of 15 feet.
2. Risk and parameter - Excavation increases by 5 feet.
3. Cost – If the excavation depth increases from 15 to 20 feet the additional cost of the excavation and embankment volume is \$30M for the additional 5 feet.
4. Probability – The design team members provided initial blind rankings of probability, a review meeting was conducted, rankings were discussed, and adjustments were made to probability rankings as appropriate by the Design Team members. The average of the probability rankings was used as the estimated probability. In this example we used a 33% probability of occurring.
5. Contingency (factored risk) - Cost of the risk, \$30M was multiplied by the probability of the risk occurring of 33%, and \$10M was carried in design contingency.
6. This process was continued for approximately 80% of the total direct costs and the sum of the design contingencies divided by the construction cost prior to contingencies establishes the design contingency percentage.

The overall design contingency of 16.6 percent resulted from this evaluation as shown in Table 6-2.

#### 6.3.2 Construction Contingencies

The construction contingency is intended to cover unforeseen conditions or changes following the contract award; it is separate from the bid award. An allowance of 15 percent has been applied to all project categories. The construction contingency does not cover items such as safety incidents, force majeure (floods, etc.), or labor issues.

### 6.4 Cost Data Date, Escalation and Inflation

#### 6.4.1 Cost Data Date and Escalation

All costs are based on a Cost Data Date of March 2024. Escalation to midpoint of construction from March 2024 has not been included; this will be provided by others. Escalation will have a significant effect on project costs and is accounted for by others in the project's financial model. It will be updated as market conditions change, and escalation risk-sharing will be evaluated during the construction contract preparation.

Figure 6-1 presents the United States Bureau of Reclamation composite cost trend from January 2021 to January 2024 (USBR 2024). The plot of the composite escalation trend (as a percentage) from 2020 to 2023 is shown on this figure. The plot shows that the trend is relatively flat through 2020, increases through 2022, and begins to flatten during 2023.

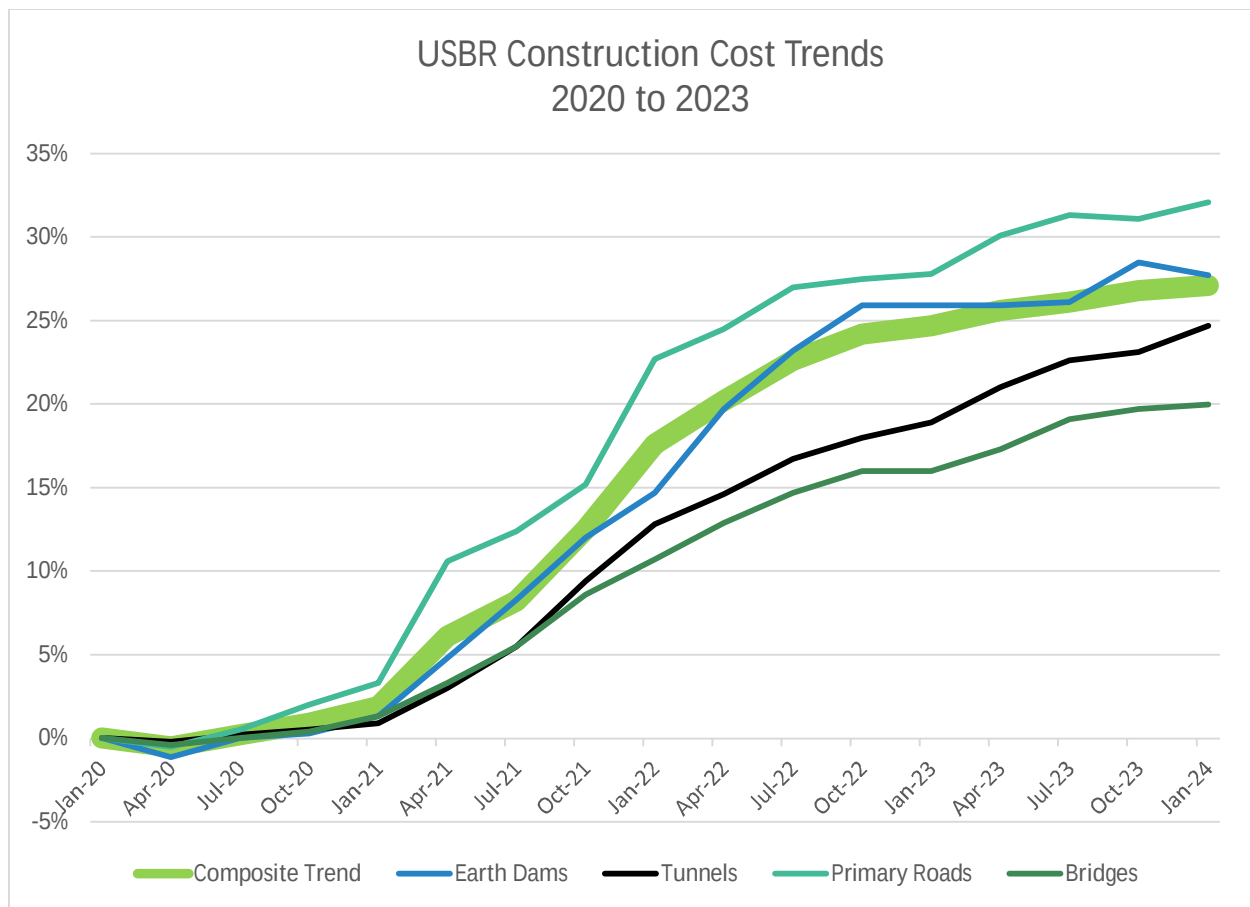


Figure 6-1 United States Bureau of Reclamation Composite Construction Cost Trend

#### 6.4.2 Inflation

Demand-pull inflation drives construction inflation by reducing overall competitiveness and allowing bidders to increase profit and risk premiums. This can be a significant inflation factor in periods of very high or low construction demand. Other inflationary factors include labor shortage and world commodities prices, such as fuel, steel, and cement.

There are multiple major dam and infrastructure projects proposed in Northern California and the western United States over the next 10 years that will impact contractor pricing for the Sites Project. There are several causes of this type of inflation, including the following:

- Contractors and subcontractors will have more opportunities that may lead to greater profit margins.
- Contractor's resources may be committed to other projects, and contractors will be unable to take on a project of this magnitude, which will reduce the bidder pool.
- Competing projects and the size of project will cause contractors to partner or form joint ventures, which would reduce the bidder pool.

## 6.5 Non-Contract Costs

The construction estimate for HR facilities does not include an estimated cost for the non-contract costs required for these facilities. The non-contract costs are being separately estimated by the Authority's agents.

Non-contract costs include:

- Project Management (PM)
- Development and Negotiation
- Planning Studies and Data Collection
- Environmental and Cultural Monitoring During Construction
- Native American Agreements and Activities
- Advance Planning for Operations
- Design Data Collection and Reporting – Geotechnical
- Services to Acquire Lands and Rights (to be in a separate real estate estimate)
- Relocation Services Prior to Construction
- Consultant/AE Firms and Other External Resources
- Engineering, Designs, Specifications, and Cost Estimates
- Safety Security and Law Enforcement Plans
- Outstanding Permitting Activities
- Procurement
- Facilities Provided by Project Partners
- Materials, Services, and Equipment Provided by Project Partners (if applicable)
- Construction Management and Other Construction Related Services
- Post-Construction/Contract Closeout.

The non-contract cost estimate should be reviewed for a full list of inclusions and exclusions. The Authority may elect to have the CMAR perform some non-contract scope. For example, the Authority may elect to have the contractor perform environmental monitoring or geotechnical investigations. If this occurs, a budget transfer from the non-contract cost to the construction cost would need to occur.

## 6.6 Environmental Mitigation

The construction estimate for HR facilities does not include an estimated cost for the environmental mitigation required for these facilities. The cost for environmental mitigation is being separately estimated by the Authority's agents.

## 7.0 Conditions of Construction

The following key assumptions were used as part of developing the 30 percent cost estimate:

- The 30 percent estimate is priced based on six 10-hour shifts to allow for the anticipated execution of the work, which will include work on schedules of five 10-hour shifts, six 10-hour shifts, and occasionally seven 10-hour shifts. The potential work schedules may be double shifted at some point, which will carry additional premiums. The estimate is priced on six 10-hour shifts, which is a reasonably conservative assumption at this time.
- The contractor will be required to pay prevailing wages at a minimum. It is anticipated that it will be necessary to provide subsistence to attract and retain a qualified labor force.
- Sales tax will be paid on all construction and permanent materials incorporated into the project.
- Hazmat abatement work or hazardous soil removal work is not anticipated, and not included.
- The site and all work areas will have been vacated prior to construction, and all work areas will be under the full control of the contractor. Public rights-of-way will be maintained at all times.
- Onsite disposal areas will be used; no offsite dumping is required.
- The work will be performed under the standard rules of the Colusa County Air Pollution Control District, with no additional air quality monitoring or management requirements; standard dust management/palliation requirements will apply.
- There will be no noise-related work restrictions.
- The contractor will be allowed access to the Glenn-Colusa Canal, Tehama-Colusa Canal, or Funks Reservoir for the full project water demand of 1 million gallons per day (AECOM, 2023c). This access is critical because the existing groundwater wells in the reservoir will not meet the anticipated demands of the project. This demand must be met regardless of drought conditions to progress construction.
- Dam excavations will require minimal blasting; e.g., for foundation shaping. The estimate allows for 10 percent blasting on the main dams and 5 percent blasting on the saddle dams.
- Core materials will be excavated within the reservoir; hauling materials from outside the reservoir is not included in this estimate.
- The required volume of Zone 5 (rockfill shell) is assumed to be sandstone. Fifteen percent of the rock borrow is assumed to be siltstone that can be used for Zone 6 (random rockfill shell). No allowances are included for encountering unsatisfactory rock, and excess Zone 6 is assumed to be stockpiled or wasted. For embankment dam zone descriptions, refer to the 30% Basis of Design Report: Dams, Hydraulic Structures, and Tunnels (AECOM, 2024d).
- Zones 4A and 4B (main dam transitions), and Zones 7A and 7B (bedding and riprap) will be produced onsite. Zone 2 (filter), Zone 3 (drain), Zone 8 (saddle dam transitions), and road base will be produced off site.

## 8.0 Key Exclusions

The following are key exclusions from the 30 percent estimate:

- owner's contingency;
- utility company charges, including work required off site and utilities rates;
- maintenance and operational work unless otherwise noted;
- phasing allowance;
- escalation beyond the specified reporting period (to be provided by others);
- unforeseen conditions, including discovery of hazardous materials;
- restrictive technical specifications or excessive contract conditions;
- non-competitive bidding conditions;
- sole-source specifications of materials or products;
- quality assurance testing by the Authority;
- legal services;
- non-contract costs;
- real estate; and
- environmental mitigation.

## 9.0 Value Engineering

The VE TM (AECOM 2024a) expands on the feasibility-level VE ideas or proposals indicated in the Feasibility-Level Cost Estimate TM (AECOM 2021) and introduces newly identified VE proposals. The VE proposals focus on those that can be adopted during 60 percent design because they would require Authority acceptance, geotechnical data, or additional constructability review. Consequently, any potential cost savings would be realized after the 30 percent design submittal.

The VE proposals from the Feasibility-Level Cost Estimate TM have been updated based on current design considerations. These proposals have already been included in the ongoing 30 percent design or rejected as noted in the VE TM. New VE proposals and their associated cost savings have been identified in the VE TM during the current 30 percent design effort.

Nine new VE proposals have been identified beyond the 15 VE proposals identified during the feasibility design. The largest VE proposal is the upstream shift of the Golden Gate Dam axis, which would reduce the dam cost by approximately \$190 million in October 2023 dollars as part of the total estimated VE savings of \$345 million. The estimated VE savings are approximate and would be revised, as needed, if adopted; and would be incorporated in the 60 percent design or beyond. VE proposals will be presented to the Authority in writing and only adopted if approved by the Authority. Some of the VE proposals will need to be presented to the Division of Safety of Dams to obtain feedback and possible concurrence on any concerns they may have before adopting a VE proposal.

New VE proposals will continue to be identified and evaluated throughout the design process. It is understood that the Authority/CMAR may initiate an independent VE analysis before construction.

## 10.0 Conclusions and Next Steps

This TM presents AECOM's 30 percent cost estimate for the reservoir facilities contract (HR) including the main and saddle dams, spillway, inlet/outlet tunnel and sloping structure, construction diversion tunnels, and roads and bridges. The estimate presented herein is an AACE Class 3 cost estimate, and is in March 2024 dollars. The expected range of accuracy for this 30 percent cost estimate is +30 percent/-20 percent. The estimated total construction cost, including design and construction contingencies, is summarized below:

|                                       |         |
|---------------------------------------|---------|
| Estimated 30% Total Construction Cost | \$3.27B |
| Estimated Range – Low (-20%)          | \$2.61B |
| Estimated Range – High (+30%)         | \$4.24B |

After the CMAR has been engaged, an Independent Construction Cost Estimator team should be employed to prepare an estimate to confirm the construction price. There also may be other times when the Authority may wish to engage the Independent Construction Cost Estimator, such as for VE.

## 11.0 References

- AECOM. 2021. Draft Feasibility-Level Cost Estimate Technical Memorandum, Task HR 56. February 3.
- AECOM. 2023b. Presentation: Cost Trend Estimate for Reservoir – Draft. December 14.
- AECOM. 2023c. Draft Sites Reservoir Onsite Water Supply During Construction TM, Task HR27.01. July 17.
- AECOM. 2023d. Demolition and Abandonment Plan TM, Task HR45.01. November 20.
- AECOM. 2023e Draft Environmental Protection TM, Task HR33.01. December 14.
- AECOM. 2024a. Draft Value Engineering Technical Memorandum, Task Order No. 4 – Task HR 29.01. February 7.
- AECOM. 2024b. Commercial Aggregate Sources TM, Task HR24.08. March 19.
- AECOM. 2024c. Draft Material Handling and Development: 30% Basis of Design TM, Task HR25.01. March 29.
- AECOM. 2024d. 30% Basis of Design Report: Dams, Hydraulic Structures, and Tunnels, Task HR35.01. April 17.
- AECOM. 2024e. 30 Percent Construction Cost Estimate, Sites Reservoir Facilities, Technical Memorandum – Draft, Task Order No. 4 – Task HR38.01. May 22.
- AECOM. 2024f. Reservoir Preliminary Construction Schedule (Revised Draft), Task Order No. 4, Task HR30.01. June 25.
- Association for the Advancement of Cost Engineering (AACE) International. 2016. Recommended Practice No. 18R-97, Cost Estimate Classification System. March 1.
- AACE. 2020. Cost Estimate Classification System, 17R-97. August 7.
- California Department of Transportation (Caltrans). 2021. Labor Surcharge and Equipment Rental Rates, Effective April 1, 2020, through March 31, 2021.
- HCSS HeavyBid. 2024. Advanced, Version 2024.0.
- United States Bureau of Reclamation. 2024. Construction Cost Trends. Technical Service Center. March 4. Available online at: <https://www.usbr.gov/tsc/techreferences/mands/cct.html>.

## Appendix A 30 Percent Construction Cost Estimate Back-Up – HR

## Appendix A-1 30 Percent Construction Cost Estimate (AECOM)

Sites Reservoir - Total Project Cost  
30% Cost Estimate  
Sites, CA

Cost Estimate  
AACEI Class 3  
February 28, 2025

#### TOTAL ESTIMATE SUMMARY

|                                                    |           |      |               |
|----------------------------------------------------|-----------|------|---------------|
| Total Direct Cost                                  |           |      | 1,675,756,069 |
| TOTAL DIRECT COST BEFORE CONTRACTOR INDIRECT COSTS |           |      | 1,675,756,069 |
| Mobilization                                       | 4.6%      |      | 77,356,019    |
| Field Overhead Costs (GC&GR)                       | 16.1%     |      | 283,123,392   |
| Insurance                                          | 2.0%      |      | 40,724,709    |
| Bonds                                              | 0.6%      |      | 12,461,764    |
| Total Contractor Indirect Costs                    |           |      | 413,665,884   |
| TOTAL CONTACTOR COSTS                              |           |      | 2,089,421,953 |
| Home Office Overhead (G&A)                         | 6.3%      |      | 131,988,678   |
| GC Profit                                          | 9.6%      |      | 214,072,949   |
| Total Contractor Overhead and Profit               |           |      | 346,061,627   |
| TOTAL CONSTRUCTION COST BEFORE CONTINGENCIES       |           |      | 2,435,483,580 |
| Contingencies                                      |           |      |               |
| Design Contingencies                               | 16.6%     |      | 403,845,600   |
| Construction Contingencies                         | 15.0%     |      | 425,899,376   |
| Total Contingency Allowance                        |           |      | 829,744,976   |
| TOTAL COST BEFORE ESCALATION                       |           |      | 3,265,228,556 |
| Escalation to Mid-point of Construction            | By Others | 0%   | -             |
| RECOMMENDED CONSTRUCTION BUDGET                    |           |      | 3,265,228,556 |
| Non-Contract Costs                                 | By Others | 0.0% | -             |
| TOTAL ESTIMATE                                     |           |      | 3,265,228,556 |

Sites Reservoir (Alt 1): Demolition and Clearing Work  
30% Cost Estimate  
Sites, CA

Cost Estimate  
AAEI Class 3  
February 28, 2025

**TOTAL ESTIMATE SUMMARY**

|                                                    |                  |      |            |
|----------------------------------------------------|------------------|------|------------|
| Total Direct Cost                                  |                  |      | 23,088,833 |
| TOTAL DIRECT COST BEFORE CONTRACTOR INDIRECT COSTS |                  |      | 23,088,833 |
| Mobilization                                       | 3.0%             |      | 692,665    |
| Field Overhead Costs (GC&GR)                       | 12.5%            |      | 2,972,687  |
| Insurance                                          | 2.0%             |      | 535,084    |
| Bonds                                              | 0.6%             |      | 163,736    |
| Total Contractor Indirect Costs                    |                  |      | 4,364,172  |
| TOTAL CONTACTOR COSTS                              |                  |      | 27,453,005 |
| Home Office Overhead (G&A)                         | 5.5%             |      | 1,509,915  |
| GC Profit                                          | 8.0%             |      | 2,317,034  |
| Total Contractor Overhead and Profit               |                  |      | 3,826,949  |
| TOTAL CONSTRUCTION COST BEFORE CONTINGENCIES       |                  |      | 31,279,954 |
| Contingencies                                      |                  |      |            |
| Design Contingencies                               | 25.0%            |      | 7,819,989  |
| Construction Contingencies                         | 15.0%            |      | 5,864,991  |
| Total Contingency Allowance                        |                  |      | 13,684,980 |
| TOTAL COST BEFORE ESCALATION                       |                  |      | 44,964,934 |
| Escalation to Mid-point of Construction            | <i>By Others</i> | 0%   | -          |
| RECOMMENDED CONSTRUCTION BUDGET                    |                  |      | 44,964,934 |
| Non-Contract Costs                                 | <i>By Others</i> | 0.0% | -          |
| TOTAL ESTIMATE                                     |                  |      | 44,964,934 |

DIRECT COST LEVEL 3 SUMMARY

| Item              | Sub item | Description                                                                                 | Total Quantity | Unit | Unit Rate     | Total         | Comment                                                                            |
|-------------------|----------|---------------------------------------------------------------------------------------------|----------------|------|---------------|---------------|------------------------------------------------------------------------------------|
| 1                 |          | General Clearing and Grubbing                                                               |                |      |               |               |                                                                                    |
|                   | 1.001    | Clearing and Grubbing                                                                       | 289            | ACRE | \$ 4,931.57   | \$ 1,425,223  | A reconnaissance survey has yet to be performed, so the quantities remain unknown. |
| 2                 |          | Reservoir Clearing and Demolition                                                           |                |      |               |               |                                                                                    |
|                   | 2.001    | Remove and Dispose of Trees - Oak Woodlands                                                 | 700            | ACRE | \$ 13,125.00  | \$ 9,187,500  |                                                                                    |
|                   |          | a. Oak woodland around reservoir                                                            |                |      |               |               |                                                                                    |
|                   |          | b. Remove and dispose off site                                                              |                |      |               |               |                                                                                    |
|                   |          | c. Cut stumps within 12" of ground                                                          |                |      |               |               |                                                                                    |
|                   |          | d. Stump removal not required                                                               |                |      |               |               |                                                                                    |
|                   |          | e. Provide access to tree cutting locations                                                 |                |      |               |               |                                                                                    |
|                   | 2.002    | Vegetation Removal - Occupied Areas                                                         | 61             | ACRE | \$ 100,625.00 | \$ 6,138,125  |                                                                                    |
|                   |          | a. Trees, shrubs                                                                            |                |      |               |               |                                                                                    |
|                   |          | b. Town of Sites and homesteads                                                             |                |      |               |               |                                                                                    |
|                   |          | c. Remove and dispose off site                                                              |                |      |               |               |                                                                                    |
|                   |          | d. Cut tree stumps within 12" of ground                                                     |                |      |               |               |                                                                                    |
|                   |          | e. Tree Stump removal not required                                                          |                |      |               |               |                                                                                    |
|                   | 2.003    | Demolish Residential Housing                                                                | 17             | EA   | \$ 12,500.00  | \$ 212,500    |                                                                                    |
|                   |          | a. Demolish, remove, dispose off site                                                       |                |      |               |               |                                                                                    |
|                   |          | b. Remove concrete foundations and walls in designated borrow areas                         |                |      |               |               |                                                                                    |
|                   | 2.004    | Demolish Barns                                                                              | 17             | EA   | \$ 9,875.00   | \$ 167,875    |                                                                                    |
|                   |          | a. Demolish, remove, dispose off site                                                       |                |      |               |               |                                                                                    |
|                   | 2.005    | Demolish Out-buildings - Sheds & Garages                                                    | 54             | EA   | \$ 10,125.00  | \$ 546,750    |                                                                                    |
|                   |          | a. Demolish, remove, dispose off site                                                       |                |      |               |               |                                                                                    |
|                   | 2.006    | Demolish silos & water towers                                                               | 44             | EA   | \$ 13,750.00  | \$ 605,000    |                                                                                    |
|                   |          | a. Demolish, remove, dispose off site                                                       |                |      |               |               |                                                                                    |
|                   | 2.007    | Remove Motor Homes                                                                          | 9              | EA   | \$ 6,250.00   | \$ 56,250     |                                                                                    |
|                   |          | a. Demolish, remove, dispose off site                                                       |                |      |               |               |                                                                                    |
|                   | 2.008    | Demolish and clean Septic Systems                                                           | 27             | EA   | \$ 14,875.00  | \$ 401,625    |                                                                                    |
|                   |          | a. Pump and dispose of contents                                                             |                |      |               |               |                                                                                    |
|                   |          | b. Remove and dispose of lid, walls, bottom                                                 |                |      |               |               |                                                                                    |
|                   |          | c. Remove any gravel surround                                                               |                |      |               |               |                                                                                    |
|                   |          | d. Backfill excavation with clay soils                                                      |                |      |               |               |                                                                                    |
|                   | 2.009    | Plug Groundwater Wells                                                                      | 15             | EA   | \$ 8,837.50   | \$ 132,563    |                                                                                    |
|                   |          | a. Follow Colusa or Glenn County standards                                                  |                |      |               |               |                                                                                    |
|                   |          | b. Remove and dispose of pumps, motors, electrical                                          |                |      |               |               |                                                                                    |
|                   | 2.010    | Remove Utility Poles                                                                        | 38             | EA   | \$ 14,500.00  | \$ 551,000    |                                                                                    |
|                   |          | a. Follow County/State Standards                                                            |                |      |               |               |                                                                                    |
|                   |          | b. Dispose off site                                                                         |                |      |               |               |                                                                                    |
|                   |          | c. Remove contaminated soils, backfill excavation with clay soils                           |                |      |               |               |                                                                                    |
|                   | 2.011    | Remove Metal Fencing and Posts (No Salvage)                                                 | 50             | MILE | \$ 16,875.00  | \$ 847,463    |                                                                                    |
|                   |          | a. Dispose off site                                                                         |                |      |               |               |                                                                                    |
|                   | 2.012    | Remove Asphalt Paving (Two-Lane Roads)                                                      | 67,538         | SY   | \$ 12.19      | \$ 823,117    | Huff Master was only partially included because the rest of the HM is a dirt road. |
|                   |          | a. Dispose off site                                                                         |                |      |               |               |                                                                                    |
|                   |          | b. AB removal not required if present                                                       |                |      |               |               |                                                                                    |
|                   |          | c. Does not include removal of temporary north bypass road in reservoir (In road estimates) |                |      |               |               |                                                                                    |
|                   | 2.013    | Remove Debris                                                                               |                |      |               |               |                                                                                    |
|                   |          | a. Dispose off site                                                                         | 118.00         | EA   | \$ 3,750.00   | \$ 442,500    |                                                                                    |
|                   | 2.014    | Remove Underground Fuel Tanks                                                               |                |      |               |               |                                                                                    |
|                   |          | a. Follow County/State Standards                                                            | 15.00          |      | \$ 14,500.00  | \$ 217,500    |                                                                                    |
|                   |          | b. Dispose off site                                                                         |                |      |               |               |                                                                                    |
|                   | 2.015    | Locate Decommissioned Gas Wells, Verify Closure                                             |                | EA   |               |               |                                                                                    |
|                   |          | a. Locate wells, excavate top, verify closure                                               | 10.00          | \$   | 18,750.00     | \$ 187,500    |                                                                                    |
|                   |          | b. Wells in reservoir identified as plugged dry gas wells in DOGGR records                  |                |      |               |               |                                                                                    |
|                   | 2.016    | Unknown Items to dispose or demo                                                            |                | EA   |               |               | Allowance to be carried out for unknown items under demo.                          |
|                   |          | a. Locate unknown items to dispose                                                          | 15.00          | \$   | 3,125.00      | \$ 46,875     |                                                                                    |
|                   |          | b. Locate unknown items to demo                                                             |                |      |               |               |                                                                                    |
|                   | 2.017    | Allowance for Unlisted Items                                                                | 5%             | %    | \$ 21,989,365 | \$ 1,099,468  |                                                                                    |
| Total Direct Cost |          |                                                                                             | 1,050          | ACRE | \$ 21,989.37  | \$ 23,088,833 |                                                                                    |

Sites Reservoir: 21A - Golden Gate Dam  
 30% Cost Estimate  
 Sites, CA

Cost Estimate  
 AACEI Class 3  
 February 28, 2025

# TOTAL ESTIMATE SUMMARY

|                                                    |           |      |             |
|----------------------------------------------------|-----------|------|-------------|
| Total Direct Cost                                  |           |      | 365,154,120 |
| TOTAL DIRECT COST BEFORE CONTRACTOR INDIRECT COSTS |           |      | 365,154,120 |
| Mobilization                                       | 5.0%      |      | 18,257,706  |
| Field Overhead Costs (GC&GR)                       | 17.0%     |      | 65,180,010  |
| Insurance                                          | 2.0%      |      | 8,971,837   |
| Bonds                                              | 0.6%      |      | 2,745,382   |
| Total Contractor Indirect Costs                    |           |      | 95,154,935  |
| TOTAL CONTACTOR COSTS                              |           |      | 460,309,055 |
| Home Office Overhead (G&A)                         | 6.5%      |      | 29,920,089  |
| GC Profit                                          | 10.0%     |      | 49,022,914  |
| Total Contractor Overhead and Profit               |           |      | 78,943,003  |
| TOTAL CONSTRUCTION COST BEFORE CONTINGENCIES       |           |      | 539,252,058 |
| Contingencies                                      |           |      |             |
| Design Contingencies                               | 17.0%     |      | 91,672,850  |
| Construction Contingencies                         | 15.0%     |      | 94,638,736  |
| Total Contingency Allowance                        |           |      | 186,311,586 |
| TOTAL COST BEFORE ESCALATION                       |           |      | 725,563,644 |
| Escalation to Mid-point of Construction            | By Others | 0%   | -           |
| RECOMMENDED CONSTRUCTION BUDGET                    |           |      | 725,563,644 |
| Non-Contract Costs                                 | By Others | 0.0% | -           |
| TOTAL ESTIMATE                                     |           |      | 725,563,644 |

DIRECT COST LEVEL 2 SUMMARY

| Item | Sub Item | Description                                             | UoM    | 30% Cost Estimate |           |            |
|------|----------|---------------------------------------------------------|--------|-------------------|-----------|------------|
|      |          |                                                         |        | Qty               | Unit Rate | Total      |
| 01   | 01.00.00 | PRECONSTRUCTION ACTIVITIES                              |        |                   |           | 7,160,400  |
|      | 01.01.00 | Demolition Work                                         | LS     | -                 |           | Elsewhere  |
|      | 01.02.00 | Clearing and Grubbing                                   | ACRE   | 53                | 10,239    | 542,647    |
|      | 01.03.00 | Reservoir Clearing                                      | ACRE   | -                 |           | -          |
|      | 01.04.00 | Erosion and Sediment Control                            | ACRE   | 53                | 107,939   | 5,720,793  |
|      | 01.05.00 | Developing haul routes - Haul routes inside reservoir   | ACRES  | 43                | 11,137    | 478,903    |
|      | 01.06.00 | Developing haul routes - Haul routes outside reservoir  | ACRES  | 22                | 11,137    | 245,020    |
|      | 01.07.00 | Developing Stockpile and Staging Areas                  | ACRES  | 10                | 17,304    | 173,036    |
| 02   | 02.00.00 | COFFERDAM                                               |        |                   |           | 3,794,959  |
|      | 02.01.00 | Cofferdam Excavation                                    | BCY    | 85,000            | 16        | 1,369,933  |
|      | 02.02.00 | Cofferdam - Zone 6                                      | ECY    | 10,500            | 12        | 129,719    |
|      | 02.03.00 | Cofferdam - Zone 9                                      | ECY    | 112,400           | 13        | 1,505,307  |
|      | 02.04.00 | Cofferdam - Cutoff Wall                                 | SF     | 16,000            | 40        | 640,000    |
|      | 02.05.00 | Cofferdam - Dewatering Allowance                        | LS     | 1                 | 150,000   | 150,000    |
| 03   | 03.00.00 | GOLDEN GATE DIVERSION                                   |        |                   |           | 13,830,433 |
|      | 03.01.00 | Pipe Excavation                                         | BCY    | 7,000             | 30        | 208,595    |
|      | 03.02.00 | Install 48-Inch Steel Pipe and Encasement               | LF     | 2,250             | 3,911     | 8,800,405  |
|      | 03.03.00 | Mass Concrete at GG Core Excavation                     | CY     | 6,133             | 530       | 3,249,658  |
|      | 03.04.00 | Downstream Valve Pad                                    | LS     | 1                 | 22,013    | 22,013     |
|      | 03.04.40 | Mechanical Scope of Work                                | LS     | 1                 | 724,646   | 724,646    |
|      | 03.05.00 | Upstream Inlet                                          | CY     | 1                 | 46,859    | 46,859     |
|      | 03.06.00 | Riprap Discharge Channel                                | CY     | 70                | 167       | 11,722     |
|      | 03.07.00 | Grout Backfill to Seal Pipe                             | CY     | 1,009             | 760       | 766,535    |
| 04   | 04.00.00 | FOUNDATION EXCAVATION                                   |        |                   |           | 16,808,867 |
|      | 04.01.00 | Topsoil Salvage                                         | BCY    | 138,000           | 6         | 853,970    |
|      | 04.02.00 | Drill and Shoot Foundation                              | BCY    | 126,600           | 15        | 1,865,677  |
|      | 04.03.00 | Dam Foundation Excavation                               | BCY    | 1,266,000         | 10        | 12,649,220 |
|      | 04.05.00 | Dewatering allowance                                    | Months | 18                | 80,000    | 1,440,000  |
| 05   | 05.00.00 | FOUNDATION PREPARATION - BENEATH CORE                   |        |                   |           | 9,432,360  |
|      | 05.01.00 | Initial Foundation Cleaning - Core                      | SY     | 29,300            | 26        | 758,974    |
|      | 05.02.00 | Final Foundation Cleaning - Core                        | SY     | 29,300            | 34        | 1,000,466  |
|      | 05.03.00 | Dental Excavation                                       | CY     | 6,000             | 24        | 144,646    |
|      | 05.04.00 | Dental Concrete                                         | CY     | 6,000             | 529       | 3,173,314  |
|      | 05.05.00 | Backfill Concrete                                       | CY     | 5,150             | 406       | 2,093,338  |
|      | 05.06.00 | Shaping Excavations                                     | CY     | 600               | 32        | 19,286     |
|      | 05.07.00 | Slush Grout                                             | Sacks  | 8,800             | 255       | 2,242,336  |
| 06   | 06.00.00 | GROUTING                                                |        |                   |           | 38,804,266 |
|      | 06.01.00 | Grout Cap                                               | CY     | 6,950             | 1,164     | 8,092,545  |
|      | 06.02.00 | Grout Cap Anchors                                       | LF     | 2,400             | 180       | 431,818    |
|      | 06.03.00 | Grout Cut Off Wall                                      | CY     | -                 |           | -          |
|      | 06.04.00 | Curtain Grouting - Includes Stich and Fans              | LF     | 150,900           | 196       | 29,528,250 |
|      | 06.05.00 | Consolidation Grouting                                  | LF     | -                 |           | -          |
|      | 06.06.00 | Type III Cement                                         | Tons   | 2,733             | 275       | 751,653    |
| 07   | 07.00.00 | FOUNDATION PREPARATION - BENEATH SHELL                  |        |                   |           | 857,213    |
|      | 07.01.00 | Foundation Cleaning - Shell                             | SY     | 214,400           | 4         | 857,213    |
| 08   | 08.00.00 | FOUNDATION DRAINAGE                                     |        |                   |           | 206,794    |
|      | 08.01.00 | Furnish and Install Foundation Drain Pipe               | LF     | 450               | 277       | 124,824    |
|      | 08.02.00 | Furnish and Install Foundation Drain Manholes           | EA     | 2                 | 20,492    | 40,985     |
|      | 08.03.00 | Furnish and Install Inspection Well                     | EA     | 2                 | 20,492    | 40,985     |
| 09   | 09.00.00 | ROCK BORROW AREA - DEVELOP, PROCESSING, AND RESTORATION |        |                   |           | 89,462,355 |
|      | 09.01.00 | Strip/Overburden/Waste to Stockpile                     | BCY    | 1,604,100         | 9         | 14,379,483 |
|      | 09.02.00 | Drill, Blast, Excavate to Crusher and Riprap Process    | BCY    | 5,354,400         | 7         | 36,428,490 |
|      | 09.03.00 | Zone 4A, 4B, Zone 7A Processing                         | ECY    | 502,000           | 32        | 16,064,000 |
|      | 09.04.00 | Riprap and Groin Processing                             | ECY    | 122,300           | 30        | 3,669,000  |
|      | 09.05.00 | Removal of Excess Sand/Siltstone                        | BCY    | 1,019,700         | 13        | 13,495,738 |
|      | 09.06.00 | Replace Overburden from Stockpile                       | ECY    | 377,800           | 7         | 2,524,157  |
|      | 09.07.00 | Topsoil Replacement                                     | ECY    | 138,000           | 10        | 1,366,068  |
|      | 09.08.00 | Seeding                                                 | SF     | 3,572,000         | 0.43      | 1,535,420  |

Sites Reservoir: 21A - Golden Gate Dam  
30% Cost Estimate  
Sites, CA

Cost Estimate  
AACEI Class 3  
May 22, 2024

| DIRECT COST LEVEL 2 SUMMARY |          |                                                                                                                                                |     |           |           |             |
|-----------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|-----------|-------------|
| 10                          | 10.00.00 | EMBANKMENT                                                                                                                                     |     |           |           | 162,595,952 |
|                             | 10.01.00 | Furnish and Install Zone 1 - Core                                                                                                              | ECY | 1,062,300 | 30        | 31,784,561  |
|                             | 10.02.00 | Purchase, Haul and Place - Zone 2 - Filter                                                                                                     | ECY | 245,900   | 152       | 37,451,031  |
|                             | 10.03.00 | Purchase, Haul and Place - Zone 3 - Drain                                                                                                      | ECY | 177,800   | 145       | 25,793,446  |
|                             | 10.04.00 | Produce, Haul and Place - Zone 4A - Fine Transition                                                                                            | ECY | 152,700   | 27        | 4,161,183   |
|                             | 10.05.00 | Produce, Haul and Place - Zone 4B - Coarse Transition                                                                                          | ECY | 349,300   | 26        | 8,990,950   |
|                             | 10.06.00 | Produce, Haul and Place - Zone 8 - Fine Transition - Saddles                                                                                   | ECY | -         |           | -           |
|                             | 10.07.00 | Furnish and Install Zone 5&6 Sand/Siltstone - Rockfill                                                                                         | ECY | 5,456,400 | 9         | 51,728,515  |
|                             | 10.08.00 | Furnish and Install Zone - 9 Random                                                                                                            | ECY | -         |           | -           |
|                             | 10.09.00 | Produce, Haul and Place - Zone 7A - Bedding - Saddles                                                                                          | ECY | -         |           | -           |
|                             | 10.10.00 | Produce, Haul and Place - Zone 7B - Riprap                                                                                                     | ECY | 122,300   | 22        | 2,686,268   |
|                             | 10.11.00 | Produce, Haul and Place - Groin Protection - Saddles                                                                                           | ECY | -         |           | -           |
| 11                          | 11.00.00 | INSTRUMENTATION AND TELEMETRY                                                                                                                  |     |           |           | 1,854,500   |
|                             | 11.01.00 | Instrumentation/Telemetry: Instrumentation/Telemetry (piezometers, settlement monitors (survey monuments), seismographs, and slope indicators) | LS  | 1         | 1,854,500 | 1,854,500   |
| 12                          | 12.00.00 | SITE RESTORATION                                                                                                                               |     |           |           | 2,957,730   |
|                             | 12.01.00 | Seeding                                                                                                                                        | SF  | 460,000   | 0         | 197,730     |
|                             | 12.02.00 | Fencing                                                                                                                                        | LF  | 800       | 75        | 60,000      |
|                             | 12.03.00 | Best Management Practices                                                                                                                      | LS  | 1         | 1,500,000 | 1,500,000   |
|                             | 12.04.00 | Rock Check Dams                                                                                                                                | LS  | 1         | 600,000   | 600,000     |
|                             | 12.05.00 | Drainage - Inlets, Culverts                                                                                                                    | LS  | 1         | 600,000   | 600,000     |
| 15                          | 15.00.00 | ALLOWANCE FOR UNLISTED ITEMS                                                                                                                   |     |           |           | 17,388,291  |
|                             | 15.01.00 | Allowance for Unlisted Items                                                                                                                   | %   | 5%        |           | 17,388,291  |
| Total Direct Cost           |          |                                                                                                                                                |     |           |           | 365,154,120 |

DIRECT COST LEVEL 3 SUMMARY

| Item | Sub Item | Description                                                  | Quantity  | Unit   | Unit Rate     | Total         | Comment                               |
|------|----------|--------------------------------------------------------------|-----------|--------|---------------|---------------|---------------------------------------|
| 01   | 01.00.00 | PRECONSTRUCTION ACTIVITIES                                   | 1         | LS     | \$ 7,160,400  | \$ 7,160,400  |                                       |
|      | 01.01.00 | Demolition Work                                              | -         | LS     |               | Elsewhere     | Included in Demo Estimate             |
|      | 01.02.00 | Clearing and Grubbing                                        | 53        | ACRE   | \$ 10,238.62  | \$ 542,647    | Heavy vegetation removal              |
|      | 01.03.00 | Reservoir Clearing                                           | -         | ACRE   | \$ -          | \$ -          | Included in Demo Estimate             |
|      | 01.04.00 | Erosion and Sediment Control                                 | 53        | ACRE   | \$ 107,939.49 | \$ 5,720,793  |                                       |
|      | 01.05.00 | Developing haul routes - Haul routes inside reservoir        | 43        | ACRES  | \$ 11,137.28  | \$ 478,903    |                                       |
|      | 01.06.00 | Developing haul routes - Haul routes outside reservoir       | 22        | ACRES  | \$ 11,137.28  | \$ 245,020    |                                       |
|      | 01.07.00 | Developing Stockpile and Staging Areas                       | 10        | ACRES  | \$ 17,303.65  | \$ 173,036    |                                       |
| 02   | 02.00.00 | COFFERDAM                                                    |           |        |               | \$ 3,794,959  |                                       |
|      | 02.01.00 | Cofferdam Excavation                                         | 85,000    | BCY    | \$ 16.12      | \$ 1,369,933  |                                       |
|      | 02.01.10 | Common Excavation and Haul - Top Loading - 1 Mile Haul       | 76,500    | BCY    | \$ 14.44      | \$ 1,104,700  |                                       |
|      | 02.01.20 | Drill Foundation & Shoot                                     | 8,500     | BCY    | \$ 14.66      | \$ 124,635    |                                       |
|      | 02.01.30 | Rock Excavation and Haul - Top Loading - 1 Mile Haul         | 8,500     | BCY    | \$ 16.54      | \$ 140,598    |                                       |
|      | 02.02.00 | Cofferdam - Zone 6                                           | 10,500    | ECY    | \$ 12.35      | \$ 129,719    | Sourced from Diversions or Foundation |
|      | 02.02.10 | Load, Haul, and Compact Zone 6 - Top Loading - 1.0 Mile Haul | 10,500    | ECY    | \$ 12.35      | \$ 129,719    |                                       |
|      | 02.03.00 | Cofferdam - Zone 9                                           | 112,400   | ECY    | \$ 13.39      | \$ 1,505,307  | Sourced from Diversions or Foundation |
|      | 02.03.10 | Load, Haul, and Compact Zone 9 - Scraper - 1.0 Mile Haul     | 112,400   | ECY    | \$ 13.39      | \$ 1,505,307  |                                       |
|      | 02.04.00 | Cofferdam - Cutoff Wall                                      | 16,000    | SF     | \$ 40.00      | \$ 640,000    |                                       |
|      | 02.04.10 | Cutoff Wall - Bentonite                                      | 16,000    | SF     | \$ 40.00      | \$ 640,000    |                                       |
|      | 02.05.00 | Cofferdam - Dewatering Allowance                             | 1         | LS     | \$ 150,000.00 | \$ 150,000    |                                       |
|      | 02.05.20 | Surface Dewatering                                           | 6         | Months | \$ 25,000.00  | \$ 150,000    |                                       |
| 03   | 03.00.00 | GOLDEN GATE DIVERSION                                        |           |        |               | \$ 13,830,433 |                                       |
|      | 03.01.00 | Pipe Excavation                                              | 7,000     | BCY    | \$ 29.80      | \$ 208,595    |                                       |
|      | 03.01.10 | Common Excavation and Haul                                   | 1,750     | BCY    | \$ 16.49      | \$ 28,862     |                                       |
|      | 03.01.20 | Rock Excavation and Haul (Drill, Shoot, Ex, Haul)            | 5,250     | BCY    | \$ 34.23      | \$ 179,733    |                                       |
|      | 03.02.00 | Install 48-Inch Steel Pipe and Encasement                    | 2,250     | LF     | \$ 3,911.29   | \$ 8,800,405  |                                       |
|      | 03.02.10 | 48" Pipe - 3/8" Wall Thickness                               | 2,250     | LF     | \$ 1,103.64   | \$ 2,483,201  |                                       |
|      | 03.02.20 | Concrete Encasement                                          | 3,979     | CY     | \$ 644.77     | \$ 2,565,481  |                                       |
|      | 03.02.30 | Concrete Encasement - Rebar                                  | 526       | TON    | \$ 4,496.97   | \$ 2,367,207  |                                       |
|      | 03.02.40 | Concrete Backfill                                            | 2,613     | CY     | \$ 529.85     | \$ 1,384,516  |                                       |
|      | 03.03.00 | Mass Concrete at GG Core Excavation                          | 6,133     | CY     | \$ 529.85     | \$ 3,249,658  |                                       |
|      | 03.03.10 | Mass Concrete                                                | 6,133     | CY     | \$ 529.85     | \$ 3,249,658  |                                       |
|      | 03.04.00 | Downstream Valve Pad                                         | 1         | LS     | \$ 22,013.32  | \$ 22,013     |                                       |
|      | 03.04.10 | Rebar                                                        | 2         | TON    | \$ 4,496.97   | \$ 7,283      |                                       |
|      | 03.04.20 | Formwork                                                     | 162       | SF     | \$ 19.98      | \$ 3,237      |                                       |
|      | 03.04.30 | Concrete                                                     | 16        | CY     | \$ 709.70     | \$ 11,494     |                                       |
|      | 03.04.40 | Mechanical Scope of Work                                     | 1         | LS     | \$ 724,645.54 | \$ 724,646    |                                       |
|      | 03.04.41 | Install 36-Inch Steel Pipe                                   | 30        | LF     | \$ 1,908.79   | \$ 57,264     |                                       |
|      | 03.04.42 | Install 36-Mag Flow Meter                                    | 1         | EA     | \$ 105,793.95 | \$ 105,794    |                                       |
|      | 03.04.43 | Install 36-Butterfly Valve                                   | 1         | EA     | \$ 155,793.95 | \$ 155,794    |                                       |
|      | 03.04.44 | Install 36-Cone Valve                                        | 1         | EA     | \$ 305,793.95 | \$ 305,794    |                                       |
|      | 03.04.45 | E&I Scope of Work                                            | 1         | LS     | \$ 100,000.00 | \$ 100,000    | Allowance                             |
|      | 03.05.00 | Upstream Inlet                                               | 1         | LS     | \$ 46,858.77  | \$ 46,859     |                                       |
|      | 03.05.10 | Rebar                                                        | 3         | TON    | \$ 4,496.97   | \$ 13,041     |                                       |
|      | 03.05.20 | Formwork                                                     | 55        | SF     | \$ 19.98      | \$ 1,095      |                                       |
|      | 03.05.30 | Concrete                                                     | 5         | CY     | \$ 709.70     | \$ 3,889      |                                       |
|      | 03.05.40 | Screen                                                       | 2         | TON    | \$ 15,842.44  | \$ 28,833     |                                       |
|      | 03.06.00 | Riprap Discharge Channel                                     | 70        | CY     | \$ 167.46     | \$ 11,722     |                                       |
|      | 03.06.10 | Purchase processed material from quarry - Drain              | 70        | CY     | \$ 167.46     | \$ 11,722     |                                       |
|      | 03.07.00 | Grout Backfill to Seal Pipe                                  | 1,009     | CY     | \$ 759.70     | \$ 766,535    |                                       |
|      | 03.07.10 | Grout Backfill to Seal Pipe                                  | 1,009     | CY     | \$ 759.70     | \$ 766,535    |                                       |
| 04   | 04.00.00 | FOUNDATION EXCAVATION                                        |           | BCY    |               | \$ 16,808,867 |                                       |
|      | 04.01.00 | Topsoil Salvage                                              | 138,000   | BCY    | \$ 6.19       | \$ 853,970    | Allowance by Estimating               |
|      | 04.02.00 | Drill and Shoot Foundation                                   | 126,600   | BCY    | \$ 14.74      | \$ 1,865,677  | 10% Allowance by Estimating           |
|      | 04.02.10 | Drill Foundation & Shoot                                     | 126,600   | BCY    | \$ 14.74      | \$ 1,865,677  | Drill, Shoot, Explosives, Monitoring  |
|      | 04.02.20 | Load, Haul, Stockpile - Shot Rock                            | -         | BCY    | \$ -          | \$ -          | Included Below                        |
|      | 04.03.00 | Dam Foundation Excavation                                    | 1,266,000 | BCY    | \$ 9.99       | \$ 12,649,220 |                                       |
|      | 04.03.10 | Load, Haul, Stockpile - Top Loading                          | 1,266,000 | BCY    | \$ 9.99       | \$ 12,649,220 |                                       |
|      | 04.03.20 | Load, Haul, Stockpile - Scraper                              | -         | BCY    | \$ -          | \$ -          | Not Anticipated                       |
|      | 04.05.00 | Dewatering allowance                                         | 18        | Months | \$ 80,000.00  | \$ 1,440,000  | Allowance                             |
| 05   | 05.00.00 | FOUNDATION PREPARATION - BENEATH CORE                        |           |        |               | \$ 9,432,360  |                                       |
|      | 05.01.00 | Initial Foundation Cleaning - Core                           | 29,300    | SY     | \$ 25.90      | \$ 758,974    |                                       |
|      | 05.01.10 | Initial foundation core cleanup                              | 29,300    | SY     | \$ 25.90      | \$ 758,974    |                                       |
|      | 05.02.00 | Final Foundation Cleaning - Core                             | 29,300    | SY     | \$ 34.15      | \$ 1,000,466  |                                       |
|      | 05.02.10 | Final foundation core cleanup                                | 29,300    | SY     | \$ 34.15      | \$ 1,000,466  |                                       |

DIRECT COST LEVEL 3 SUMMARY

| Item | Sub Item | Description                                                                       | Quantity  | Unit  | Unit Rate    | Total          | Comment                                                                              |
|------|----------|-----------------------------------------------------------------------------------|-----------|-------|--------------|----------------|--------------------------------------------------------------------------------------|
|      | 05.03.00 | Dental Excavation                                                                 | 6,000     | CY    | \$ 24.11     | \$ 144,646     |                                                                                      |
|      | 05.03.10 | Dental excavations                                                                | 6,000     | CY    | \$ 24.11     | \$ 144,646     |                                                                                      |
|      | 05.04.00 | Dental Concrete                                                                   | 6,000     | CY    | \$ 528.89    | \$ 3,173,314   |                                                                                      |
|      | 05.05.00 | Backfill Concrete                                                                 | 5,150     | CY    | \$ 406.47    | \$ 2,093,338   |                                                                                      |
|      | 05.06.00 | Shaping Excavations                                                               | 600       | CY    | \$ 32.14     | \$ 19,286      |                                                                                      |
|      | 05.07.00 | Slush Grout                                                                       | 8,800     | Sacks | \$ 254.81    | \$ 2,242,336   |                                                                                      |
| 06   | 06.00.00 | GROUTING                                                                          |           |       |              | \$ 38,804,266  |                                                                                      |
|      | 06.01.00 | Grout Cap                                                                         | 6,950     | CY    | \$ 1,164.39  | \$ 8,092,545   |                                                                                      |
|      | 06.02.00 | Grout Cap Anchors                                                                 | 2,400     | LF    | \$ 179.92    | \$ 431,818     | New Item - 5x5 pattern - 15' Anchors                                                 |
|      | 06.04.00 | Curtain Grouting - Includes Stitch and Fans                                       | 150,900   | LF    | \$ 195.68    | \$ 29,528,250  | Includes Primary, Secondary, Tertiary, HOH, Stitch, and Fans                         |
|      | 06.04.10 | Drill setup for all holes                                                         | 1,031     | ea.   | \$ 1,110.00  | \$ 1,144,410   |                                                                                      |
|      | 06.04.20 | Drill curtain grout holes                                                         | 150,900   | lft   | \$ 100.00    | \$ 15,090,000  |                                                                                      |
|      | 06.04.30 | Redrill grout holes                                                               | 15,090    | lft   | \$ 100.00    | \$ 1,509,000   | Assume 10% to be redrilled                                                           |
|      | 06.04.40 | Hookup to grout holes and grout nipples                                           | 7,545     | ea.   | \$ 170.00    | \$ 1,282,650   | 1 x hookup every 20'                                                                 |
|      | 06.04.50 | Mix and inject portland cement grout                                              | 58,155    | sack  | \$ 150.00    | \$ 8,723,250   |                                                                                      |
|      | 06.04.60 | Perform hydraulic conductivity tests                                              | 1,031     | ea.   | \$ 1,140.00  | \$ 1,175,340   |                                                                                      |
|      | 06.04.70 | Verification Holes                                                                | 3,018     | LF    | \$ 200.00    | \$ 603,600     |                                                                                      |
|      | 06.05.00 | Consolidation Grouting                                                            | -         | LF    | -            | -              | Not Required                                                                         |
|      | 06.06.00 | Type III Cement                                                                   | 2,733     | Tons  | \$ 275.00    | \$ 751,653     |                                                                                      |
| 07   | 07.00.00 | FOUNDATION PREPARATION - BENEATH SHELL                                            |           |       |              | \$ 857,213     |                                                                                      |
|      | 07.01.00 | Foundation Cleaning - Shell                                                       | 214,400   | SY    | \$ 4.00      | \$ 857,213     |                                                                                      |
|      | 07.01.10 | Dam shell cleanup                                                                 | 214,400   | SY    | \$ 4.00      | \$ 857,213     |                                                                                      |
| 08   | 08.00.00 | FOUNDATION DRAINAGE                                                               |           |       |              | \$ 206,794     |                                                                                      |
|      | 08.01.00 | Furnish and Install Foundation Drain Pipe                                         | 450       | LF    | \$ 277.39    | \$ 124,824     | 24" Pipe                                                                             |
|      | 08.02.00 | Furnish and Install Inspection Well                                               | 2         | EA    | \$ 20,492.44 | \$ 40,985      |                                                                                      |
|      | 08.03.00 | Furnish and Install Weir Vault                                                    | 2         | EA    | \$ 20,492.44 | \$ 40,985      |                                                                                      |
| 09   | 09.00.00 | ROCK BORROW AREA - DEVELOP, PROCESSING, AND RESTORATION                           |           |       |              | \$ 89,462,355  |                                                                                      |
|      | 09.01.00 | Strip/Overburden/Waste to Stockpile                                               | 1,604,100 | BCY   | \$ 8.96      | \$ 14,379,483  |                                                                                      |
|      | 09.01.10 | Strip Topsoil Stockpile                                                           | 377,800   | BCY   | \$ 9.24      | \$ 3,489,790   |                                                                                      |
|      | 09.01.20 | Remove Overburden                                                                 | 1,226,300 | BCY   | \$ 8.88      | \$ 10,889,692  |                                                                                      |
|      | 09.02.00 | Drill, Blast Borrow, Excavate to Crusher and Riprap Process                       | 5,354,400 | BCY   | \$ 6.80      | \$ 36,428,490  |                                                                                      |
|      | 09.02.10 | Drill and Blast                                                                   | 5,354,400 | BCY   | \$ 5.58      | \$ 29,886,299  |                                                                                      |
|      | 09.02.11 | Allowance for Waste                                                               | 803,160   | BCY   | \$ 5.58      | \$ 4,482,945   |                                                                                      |
|      | 09.02.20 | Excavate to Riprap and Crusher Plants                                             | 624,300   | ECY   | \$ 3.30      | \$ 2,059,246   |                                                                                      |
|      | 09.03.00 | Zone 4A, 4B, 7A Processing                                                        | 502,000   | ECY   | \$ 32.00     | \$ 16,064,000  | See Borrow Estimate                                                                  |
|      | 09.03.10 | Prep Site                                                                         |           |       |              |                |                                                                                      |
|      | 09.03.20 | Crusher Mob and Set Up                                                            |           |       |              |                |                                                                                      |
|      | 09.03.30 | Crush Primary                                                                     |           |       |              |                |                                                                                      |
|      | 09.03.40 | Crush Secondary                                                                   |           |       |              |                |                                                                                      |
|      | 09.03.50 | Screening                                                                         |           |       |              |                |                                                                                      |
|      | 09.03.60 | Crusher Demob                                                                     |           |       |              |                |                                                                                      |
|      | 09.04.00 | Riprap Processing                                                                 | 122,300   | ECY   | \$ 30.00     | \$ 3,669,000   | See Borrow Estimate                                                                  |
|      | 09.04.10 | Processing Riprap                                                                 | 122,300   | ECY   | \$ 30.00     | \$ 3,669,000   |                                                                                      |
|      | 09.05.00 | Removal of Excess Sand/Siltstone                                                  | 1,019,700 | BCY   | \$ 13.24     | \$ 13,495,738  | Excess Zone 6 Removal                                                                |
|      | 09.05.10 | Blasting operations                                                               | 1,019,700 | BCY   | \$ 5.30      | \$ 5,402,096   |                                                                                      |
|      | 09.05.20 | Excavate, Load, and haul to Stockpile 1 mile haul                                 | 1,019,700 | LCY   | \$ 7.94      | \$ 8,093,641   | Haul to stockpile / Build Borrow Pad                                                 |
|      | 09.06.00 | Replace Overburden from Stockpile                                                 | 377,800   | ECY   | \$ 6.68      | \$ 2,524,157   | Backfill Borrow area using material from stockpile, allow 100% of stripping material |
|      | 09.06.10 | Load and haul to site stockpile, 0.25 mile haul                                   | 377,800   | LCY   | \$ 6.68      | \$ 2,524,157   |                                                                                      |
|      | 09.07.00 | Topsoil Replacement                                                               | 138,000   | ECY   | \$ 9.90      | \$ 1,366,068   | Allowance by Estimating                                                              |
|      | 09.07.10 | Excavate, Load and haul excavated backfill material to fill location, 1 mile haul | 138,000   | ECY   | \$ 9.90      | \$ 1,366,068   |                                                                                      |
|      | 09.08.00 | Seeding and Mulching                                                              | 3,572,000 | SF    | \$ 0.43      | \$ 1,535,420   | Backfill Borrow area using material from stockpile                                   |
|      | 09.08.10 | Seeding and Mulching                                                              | 3,572,000 | SF    | \$ 0.43      | \$ 1,535,420   |                                                                                      |
| 10   | 10.00.00 | EMBANKMENT                                                                        |           |       |              | \$ 162,595,952 |                                                                                      |
|      | 10.01.00 | Furnish and Install Zone 1 - Core                                                 | 1,062,300 | ECY   | \$ 29.92     | \$ 31,784,561  |                                                                                      |
|      | 10.01.10 | Strip Borrow Areas and Haul to Waste - 1.0 Mile Haul                              | 316,200   | BCY   | \$ 4.56      | \$ 1,443,170   | Per MBD, Scrapers                                                                    |
|      | 10.01.20 | Load, Haul, and Stockpile - Top Loading - 1.0 Mile Haul                           | 1,249,800 | BCY   | \$ 10.51     | \$ 13,133,361  | Per MBD, Top Loading Equipment                                                       |
|      | 10.01.30 | Moisture Condition At Stockpile                                                   | 1,249,800 | ECY   | \$ 2.81      | \$ 3,515,664   | Disc, Blade, Water Truck                                                             |
|      | 10.01.40 | Load, Haul, and Compact Contact Zone - Scraper - 1.5 Mile Haul                    | 53,115    | ECY   | \$ 18.91     | \$ 1,004,425   | 1st Lift - 988 Rubber Tire                                                           |
|      | 10.01.50 | Load, Haul, and Compact Wide Zone - Scraper - 1.5 Mile Haul                       | 796,725   | ECY   | \$ 12.11     | \$ 9,644,708   | Load and Haul from Stockpile to Dam                                                  |
|      | 10.01.60 | Load, Haul, and Compact Narrow Zone - Scraper - 1.5 Mile Haul                     | 212,460   | ECY   | \$ 14.32     | \$ 3,043,233   |                                                                                      |
|      | 10.02.00 | Purchase, Haul and Place - Zone 2 - Filter                                        | 245,900   | ECY   | \$ 152.30    | \$ 37,451,031  | CY to Tons - 1.7, Waste & Overbuild 20%                                              |
|      | 10.02.10 | Purchase processed material from quarry - Filter                                  | 501,636   | Tons  | \$ 40.14     | \$ 20,134,101  |                                                                                      |
|      | 10.02.20 | Haul material to stockpile, 65 mile haul                                          | 501,636   | Tons  | \$ 21.30     | \$ 10,684,847  |                                                                                      |
|      | 10.02.30 | Drive Over Unloaders & Stockpile Support                                          | 245,900   | ECY   | \$ 5.30      | \$ 1,302,712   |                                                                                      |

DIRECT COST LEVEL 3 SUMMARY

| Item              | Sub Item | Description                                                                                                                                    | Quantity  | Unit | Unit Rate       | Total          | Comment                                              |
|-------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------|-----------------|----------------|------------------------------------------------------|
|                   | 10.02.40 | Load, Haul, and Compact Blanket - Top Loading - 0.5 Mile Haul                                                                                  | 66,300    | ECY  | \$ 13.87        | \$ 919,510     |                                                      |
|                   | 10.02.50 | Load, Haul, and Compact Chimney - Top Loading - 0.5 Mile Haul                                                                                  | 179,600   | ECY  | \$ 24.55        | \$ 4,409,861   |                                                      |
|                   | 10.03.00 | Purchase, Haul and Place - Zone 3 - Drain                                                                                                      | 177,800   | ECY  | \$ 145.07       | \$ 25,793,446  | CY to Tons - 1.7, Waste & Overbuild 20%              |
|                   | 10.03.10 | Purchase processed material from quarry - Drain                                                                                                | 362,712   | Tons | \$ 33.94        | \$ 12,310,899  |                                                      |
|                   | 10.03.20 | Haul material from quarry to site stockpile/fill location, 75 mile haul                                                                        | 362,712   | Tons | \$ 24.30        | \$ 8,813,902   |                                                      |
|                   | 10.03.30 | Drive Over Unloaders & Stockpile Support                                                                                                       | 177,800   | ECY  | \$ 5.30         | \$ 941,937     |                                                      |
|                   | 10.03.40 | Load, Haul, and Compact Blanket - Top Loading - 0.5 Mile Haul                                                                                  | 59,800    | ECY  | \$ 13.87        | \$ 829,362     | Filter Rate                                          |
|                   | 10.03.50 | Load, Haul, and Compact Chimney - Top Loading - 0.5 Mile Haul                                                                                  | 118,000   | ECY  | \$ 24.55        | \$ 2,897,347   | Filter Rate                                          |
|                   | 10.04.00 | Produce, Haul and Place - Zone 4A - Fine Transition                                                                                            | 152,700   | ECY  | \$ 27.25        | \$ 4,161,183   | CY to Tons - 1.7, Waste & Overbuild 20%              |
|                   | 10.04.10 | 4A- Fine Transition Material Produced On Site                                                                                                  | 311,508   | Tons | \$ -            | \$ -           | Included Above in 09                                 |
|                   | 10.04.20 | Load, Haul, and Compact Blanket - Top Loading - 1.25 Mile Haul                                                                                 | -         | ECY  | \$ 17.96        | \$ -           | Zone B Rate                                          |
|                   | 10.04.30 | Load, Haul, and Compact Chimney - Top Loading - 1.25 Mile Haul                                                                                 | 152,700   | ECY  | \$ 27.25        | \$ 4,161,183   | Zone B Rate                                          |
|                   | 10.05.00 | Produce, Haul and Place - Zone 4B - Coarse Transition                                                                                          | 349,300   | ECY  | \$ 25.74        | \$ 8,990,950   | CY to Tons - 1.7, Waste & Overbuild 20%              |
|                   | 10.05.10 | 4B- Coarse Transition Material Produced On Site                                                                                                | 712,572   | Tons | \$ -            | \$ -           | Included Above in 09                                 |
|                   | 10.05.20 | Load, Haul, and Compact Blanket - Top Loading - 1.25 Mile Haul                                                                                 | 56,800    | ECY  | \$ 17.96        | \$ 1,020,118   |                                                      |
|                   | 10.05.30 | Load, Haul, and Compact Chimney - Top Loading - 1.25 Mile Haul                                                                                 | 292,500   | ECY  | \$ 27.25        | \$ 7,970,832   |                                                      |
|                   | 10.07.00 | Furnish and Install Zone 5&6 Sand/Siltstone - Rockfill                                                                                         | 5,456,400 | ECY  | \$ 9.48         | \$ 51,728,515  |                                                      |
|                   | 10.07.10 | Blasting operations                                                                                                                            | 5,456,400 | BCY  | \$ -            | \$ -           | Included Above in 09                                 |
|                   | 10.07.20 | Load, Haul, and Compact - Top Loading - 2.0 Mile Haul                                                                                          | 5,456,400 | ECY  | \$ 9.48         | \$ 51,728,515  | No stockpiling required, direct haul                 |
|                   | 10.10.00 | Produce, Haul and Place - Zone 7B - Riprap                                                                                                     | 122,300   | ECY  | \$ 21.96        | \$ 2,686,268   |                                                      |
|                   | 10.10.10 | Blasting operations                                                                                                                            | -         | ECY  | \$ -            | \$ -           | Included Above in 09                                 |
|                   | 10.10.20 | Excavate to Riprap Processing                                                                                                                  | -         | ECY  | \$ -            | \$ -           | Included Above in 09                                 |
|                   | 10.10.30 | Process Riprap                                                                                                                                 | -         | ECY  | \$ -            | \$ -           | Not required                                         |
|                   | 10.10.40 | Load, Haul, Place Riprap                                                                                                                       | 122,300   | ECY  | \$ 21.96        | \$ 2,686,268   | Included Above in 09                                 |
| 11                | 11.00.00 | INSTRUMENTATION AND TELEMETRY                                                                                                                  |           |      |                 | \$ 1,854,500   |                                                      |
|                   | 11.01.00 | Instrumentation/Telemetry: Instrumentation/Telemetry (piezometers, settlement monitors (survey monuments), seismographs, and slope indicators) | 1         | LS   | \$ 1,854,500.00 | \$ 1,854,500   | Allowance                                            |
|                   | 11.01.01 | Vibrating Wire Piezometers                                                                                                                     | 26        | EA   | \$ 20,000.00    | \$ 520,000     | Allowance for redundant installation                 |
|                   | 11.01.02 | Open Standpipe Piezometer                                                                                                                      | 7         | EA   | \$ 12,000.00    | \$ 84,000      |                                                      |
|                   | 11.01.03 | Vibrating Wire Weir Monitors                                                                                                                   | 1         | EA   | \$ 15,000.00    | \$ 15,000      |                                                      |
|                   | 11.01.04 | Survey Monuments                                                                                                                               | 19        | EA   | \$ 2,000.00     | \$ 38,000      |                                                      |
|                   | 11.01.05 | Inclinometers                                                                                                                                  | 2         | EA   | \$ 25,000.00    | \$ 50,000      |                                                      |
|                   | 11.01.06 | Accelerographs                                                                                                                                 | 5         | EA   | \$ 50,000.00    | \$ 250,000     |                                                      |
|                   | 11.01.07 | Shaped Array Accelerometer                                                                                                                     | 1         | EA   | \$ 15,000.00    | \$ 15,000      |                                                      |
|                   | 11.01.08 | Time Domain Reflectometer                                                                                                                      | 1         | EA   | \$ 15,000.00    | \$ 15,000      |                                                      |
|                   | 11.01.09 | Weather Station                                                                                                                                | 1         | EA   | \$ 25,000.00    | \$ 25,000      |                                                      |
|                   | 11.01.10 | Reservoir Level Sensor                                                                                                                         | 1         | EA   | \$ 15,000.00    | \$ 15,000      |                                                      |
|                   | 11.01.11 | Wireless Stations                                                                                                                              | 16        | EA   | \$ 15,000.00    | \$ 240,000     | 4 Devices per Station                                |
|                   | 11.01.12 | Central Monitoring Station                                                                                                                     | 1         | EA   | \$ 300,000.00   | \$ 300,000     |                                                      |
|                   | 11.01.13 | Wireless and Solar Transmission Station                                                                                                        | 1         | EA   | \$ 100,000.00   | \$ 100,000     | Wireless Signals will be sent to HC Control Building |
|                   | 11.01.14 | Conduit and Cable Devices                                                                                                                      | 7,500     | LF   | \$ 25.00        | \$ 187,500     |                                                      |
| 12                | 12.00.00 | SITE RESTORATION                                                                                                                               |           |      |                 | \$ 2,957,730   |                                                      |
|                   | 12.01.00 | Seeding                                                                                                                                        | 460,000   | SF   | \$ 0.43         | \$ 197,730     | Allowance                                            |
|                   | 12.02.00 | Fencing                                                                                                                                        | 800       | LF   | \$ 75.00        | \$ 60,000      | Allowance                                            |
|                   | 12.03.00 | Best Management Practices                                                                                                                      | 1         | LS   | \$ 1,500,000.00 | \$ 1,500,000   | Allowance                                            |
|                   | 12.04.00 | Rock Check Dams                                                                                                                                | 1         | LS   | \$ 600,000.00   | \$ 600,000     | Allowance                                            |
|                   | 12.05.00 | Drainage - Inlets, Culverts                                                                                                                    | 1         | LS   | \$ 600,000.00   | \$ 600,000     | Allowance                                            |
| 15                | 15.00.00 | ALLOWANCE FOR UNLISTED ITEMS                                                                                                                   |           |      |                 | \$ 17,388,291  |                                                      |
|                   | 15.01.00 | Allowance for Unlisted Items                                                                                                                   | 5.0%      | %    | \$ 347,765,829  | \$ 17,388,291  |                                                      |
| Total Direct Cost |          |                                                                                                                                                | 7.57      | MCY  | \$ 48.26        | \$ 365,154,120 |                                                      |

Sites Reservoir: 21B - GG Access Road  
 30% Cost Estimate  
 Sites, CA

Cost Estimate  
 AACEI Class 3  
 February 28, 2025

# **TOTAL ESTIMATE SUMMARY**

|                                                           |                  |      |                  |
|-----------------------------------------------------------|------------------|------|------------------|
| Total Direct Cost                                         |                  |      | 5,172,088        |
| <b>TOTAL DIRECT COST BEFORE CONTRACTOR INDIRECT COSTS</b> |                  |      | <b>5,172,088</b> |
| Mobilization                                              | 3.0%             |      | 155,163          |
| Field Overhead Costs (GC&GR)                              | 12.5%            |      | 665,906          |
| Insurance                                                 | 2.0%             |      | 119,863          |
| Bonds                                                     | 0.6%             |      | 36,678           |
| <b>Total Contractor Indirect Costs</b>                    |                  |      | <b>977,610</b>   |
| <b>TOTAL CONTACTOR COSTS</b>                              |                  |      | <b>6,149,698</b> |
| Home Office Overhead (G&A)                                | 5.5%             |      | 338,233          |
| GC Profit                                                 | 8.0%             |      | 519,034          |
| <b>Total Contractor Overhead and Profit</b>               |                  |      | <b>857,267</b>   |
| <b>TOTAL CONSTRUCTION COST BEFORE CONTINGENCIES</b>       |                  |      | <b>7,006,965</b> |
| Contingencies                                             |                  |      |                  |
| Design Contingencies                                      | 12.7%            |      | 889,885          |
| Construction Contingencies                                | 15.0%            |      | 1,184,527        |
| <b>Total Contingency Allowance</b>                        |                  |      | <b>2,074,412</b> |
| <b>TOTAL COST BEFORE ESCALATION</b>                       |                  |      | <b>9,081,377</b> |
| Escalation to Mid-point of Construction                   | <i>By Others</i> | 0%   | -                |
| <b>RECOMMENDED CONSTRUCTION BUDGET</b>                    |                  |      | <b>9,081,377</b> |
| Non-Contract Costs                                        | <i>By Others</i> | 0.0% | -                |
| <b>TOTAL ESTIMATE</b>                                     |                  |      | <b>9,081,377</b> |

DIRECT COST LEVEL 2 SUMMARY

| Item | Sub Item | Description                                                                                                                             | UoM   | Qty     | Unit Rate | Total     |
|------|----------|-----------------------------------------------------------------------------------------------------------------------------------------|-------|---------|-----------|-----------|
|      |          | Total Road Length                                                                                                                       | Miles | 1.6     |           | 3,263,849 |
|      |          | Total Road Length                                                                                                                       | LF    | 8,367   |           | 618       |
|      |          | Average Width                                                                                                                           | Feet  | 15      |           |           |
|      |          | Area                                                                                                                                    | SF    | 125,505 |           | 41        |
| 01   | 01.00.00 | Preconstruction Activities                                                                                                              |       |         |           | 169,835   |
|      | 01.01.00 | Clearing And Grubbing                                                                                                                   | ACRE  | 16      | 8,000.00  | 128,000   |
|      | 01.02.00 | Temporary Silt Fence                                                                                                                    | LF    | 20,918  | 2.00      | 41,835    |
| 02   | 02.00.00 | Roadway Excavation                                                                                                                      | CY    | 278,330 | 14.88     | 4,141,219 |
|      | 02.01.00 | Roadway Excavation - Load, Haul, Compact - Top Loading                                                                                  | CY    | 23,420  | 11.45     | 268,223   |
|      | 02.02.00 | Roadway Excavation - Load, Haul, Compact - Excess - Top Loading                                                                         | CY    | 227,080 | 10.34     | 2,346,951 |
|      | 02.03.00 | Roadway Excavation - Load, Haul, Waste - Organics - Scraper                                                                             | CY    | 27,830  | 6.87      | 191,158   |
|      | 02.04.00 | Roadway Excavation - Rock Cut - Drill and Shoot                                                                                         | CY    | 150,300 | 8.88      | 1,334,887 |
|      | 02.05.00 | Roadway Fill from Borrow - Load, Haul, Compact                                                                                          | CY    | -       |           | -         |
|      | 02.06.00 | Roadway Excavation (Causeway Removal of Alluvium Materials)                                                                             | CY    | -       |           | -         |
|      | 02.07.00 | Roadway Fill (Replacement of Alluvium with 10% Swell Factor)                                                                            | CY    | -       |           | -         |
| 03   | 03.00.00 | Causeway Protection                                                                                                                     |       |         |           | -         |
|      | 03.01.00 | RSP Fabric (Type A)                                                                                                                     | SY    | -       |           | -         |
|      | 03.02.00 | RSP Bedding No. 1 (Method B) - Zone 7A                                                                                                  | CY    | -       |           | -         |
|      | 03.03.00 | Rock Slope Protection (1/4 T, Method B) - Zone 7B                                                                                       | CY    | -       |           | -         |
| 04   | 04.00.00 | Pavement Structural Section                                                                                                             |       |         |           | 576,264   |
|      | 04.01.00 | Hot Mix Asphalt (Type A)                                                                                                                | TON   | -       |           | -         |
|      | 04.02.00 | Jointed Plain Concrete Pavement (A.K.A. PCC Pavement)                                                                                   | CY    | -       |           | -         |
|      | 04.03.00 | Seal Pavement Joint                                                                                                                     | LF    | -       |           | -         |
|      | 04.04.00 | Seal Longitudinal Isolation Joint                                                                                                       | LF    | -       |           | -         |
|      | 04.05.00 | Class 2 Aggregate Base                                                                                                                  | CY    | 4,870   | 86.50     | 421,264   |
|      | 04.06.00 | Shoulder Backing (Class 2 AB Material Daylight To Side Slope)                                                                           | TON   | 3,100   | 50.00     | 155,000   |
|      | 04.07.00 | Cold Plane Asphalt Concrete Pavement                                                                                                    | SY    | -       |           | -         |
|      | 04.08.00 | Tack Coat                                                                                                                               | TON   | -       |           | -         |
|      | 04.09.00 | Full Depth Reclamation-Cement                                                                                                           | SY    | -       |           | -         |
|      | 04.15.00 | Remove Base And Surfacing                                                                                                               | CY    | -       |           | -         |
|      | 04.16.00 | Obliterate Surfacing                                                                                                                    | SY    | -       |           | -         |
| 05   | 05.00.00 | Drainage                                                                                                                                |       |         |           | -         |
|      | 05.01.00 | Remove Culvert                                                                                                                          | EA    | -       |           | -         |
|      | 05.02.00 | Abandon Culvert                                                                                                                         | EA    | -       |           | -         |
|      | 05.03.00 | 24" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                                                                               | LF    | -       |           | -         |
|      | 05.04.00 | 54" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                                                                               | LF    | -       |           | -         |
|      | 05.05.00 | Structural Concrete, Box Culvert (Single Cell)                                                                                          | CY    | -       |           | -         |
|      | 05.06.00 | Bar Reinforcing Steel (Box Culvert)                                                                                                     | LB    | -       |           | -         |
|      | 05.07.00 | Rock Pad Energy Dissipator (18" D X 5' W X 6' L)                                                                                        | CY    | -       |           | -         |
| 06   | 06.00.00 | Specialty Items                                                                                                                         |       |         |           | 24,480    |
|      | 06.01.00 | Treated Wood Waste                                                                                                                      | LB    | -       |           | -         |
|      | 06.02.00 | Remove Metal Beam Guard Railing                                                                                                         | LF    | -       |           | -         |
|      | 06.03.00 | Midwest Guardrail System (Wood Post) (Includes Transition Railing, Alternative Flared/In-Line Terminal System, And End Anchor Assembly) | LF    | 850     | 28.80     | 24,480    |
| 07   | 07.00.00 | Retaining Walls                                                                                                                         |       |         |           | -         |
|      | 07.05.00 | Retaining Wall - MSE Wall                                                                                                               | SF    | -       |           | -         |
|      | 07.06.00 | Retaining Wall - Tie-Back Wall                                                                                                          | SF    | -       |           | -         |
| 08   | 08.00.00 | Traffic Items                                                                                                                           |       |         |           | 14,000    |
|      | 08.01.00 | Roadside Sign - One Post                                                                                                                | LF    | 4       | 3,500.00  | 14,000    |
|      | 08.02.00 | Two-Component Paint Traffic Stripe (6" Yellow), (Includes 2 Yellow Stripes And One Black)                                               | EA    | -       |           | -         |
|      | 08.03.00 | Two-Component Paint Traffic Stripe (6" White)                                                                                           | EA    | -       |           | -         |
|      | 08.04.00 | Two-Component Paint Pavement Marking                                                                                                    | SQFT  | -       |           | -         |
|      | 08.05.00 | Construction Area Signs                                                                                                                 | LS    | -       |           | -         |
|      | 08.06.00 | Portable Changeable Message Sign                                                                                                        | LS    | -       |           | -         |
|      | 08.07.00 | Traffic Control System                                                                                                                  | LS    | -       |           | -         |
| 09   | 09.00.00 | Detours - Install and Remove                                                                                                            |       |         |           | -         |
|      | 09.01.00 | Temporary Hot Mix Asphalt (Type A)                                                                                                      | CY    | -       |           | -         |
|      | 09.02.00 | Temporary Class 2 Aggregate Base                                                                                                        | CY    | -       |           | -         |
| 10   | 10.00.00 | Bridges                                                                                                                                 |       |         |           | -         |
|      | 10.01.00 | Sites Lodoga Road Realignment - New Bridge - CIP PS Concrete Box Girder                                                                 | SF    | -       |           | -         |
|      | 10.02.00 | Road 69 - Replacement (Culver/Bridge)- PC/PS Concrete Slab Girder                                                                       | SF    | -       |           | -         |
|      | 10.03.00 | Road 69 - Replacement Bridge - PC/PS Concrete Box Girder                                                                                | SF    | -       |           | -         |
|      | 10.04.00 | Road 69 - Bridge Widening                                                                                                               | SF    | -       |           | -         |
|      | 10.05.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | SF    | -       |           | -         |
|      | 10.06.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | SF    | -       |           | -         |
|      | 10.07.00 | Funks Construction Access Road - New Bridge - PC/PS Concrete Box Girder                                                                 | SF    | -       |           | -         |
|      | 10.08.00 | Dam Spillway - New Bridge - PC/PS Concrete Slab Girder                                                                                  | SF    | -       |           | -         |
| 15   | 15.00.00 | ALLOWANCE FOR UNLISTED ITEMS                                                                                                            |       |         |           | 246,290   |
|      | 15.01.00 | Allowance for Unlisted Items                                                                                                            | %     | 5.0%    |           | 246,290   |
|      |          | Total Direct Cost                                                                                                                       | -     |         |           | 5,172,088 |

TOTAL ESTIMATE SUMMARY

| Item | Sub Item | Description                                                                       | Quantity | Unit  | Unit Rate   | Total        | Comment                                                  |
|------|----------|-----------------------------------------------------------------------------------|----------|-------|-------------|--------------|----------------------------------------------------------|
|      |          | Total Road Length                                                                 | 1.6      | Miles |             |              |                                                          |
|      |          | Total Road Length                                                                 | 8,367    | LF    |             |              |                                                          |
|      |          | Average Width                                                                     | 15       | Feet  |             |              |                                                          |
|      |          | Area                                                                              | 125,505  | SF    |             |              |                                                          |
| 01   | 01.00.00 | Preconstruction Activities                                                        |          |       | \$ -        | \$ 169,835   |                                                          |
|      | 01.01.00 | Clearing And Grubbing                                                             | 16       | ACRE  | \$ 8,000.00 | \$ 128,000   |                                                          |
|      | 01.02.00 | Temporary Silt Fence                                                              | 20,918   | LF    | \$ 2.00     | \$ 41,835    | Allowance by Estimating                                  |
| 02   | 02.00.00 | Roadway Excavation                                                                |          |       |             | \$ 4,141,219 |                                                          |
|      | 02.01.00 | Roadway Excavation - Load, Haul, Compact - Top Loading - 0.175 Mile Haul          | 23,420   | CY    | 11.45       | 268,223      | Includes Rock Excavation Load, Haul, Compact             |
|      | 02.02.00 | Roadway Excavation - Load, Haul, Compact - Excess - Top Loading - 0.175 Mile Haul | 227,080  | CY    | 10.34       | 2,346,951    | Includes Rock Excavation Load, Haul, Compact             |
|      | 02.03.00 | Roadway Excavation - Load, Haul, Waste - Organics - Scraper - 0.25 Mile Haul      | 27,830   | CY    | 6.87        | 191,158      |                                                          |
|      | 02.04.00 | Roadway Excavation - Rock Cut - Drill and Shoot                                   | 150,300  | CY    | 8.88        | 1,334,887    |                                                          |
|      | 02.04.10 | Drill Rock & Shoot                                                                | 150,300  | CY    | 8.88        | 1,334,887    | Drill and Shoot Only                                     |
|      | 02.04.20 | Load, Haul, Stockpile                                                             | -        | CY    | -           | -            | Load, haul, compact included above 02.01.00 and 02.02.00 |
|      | 02.05.00 | Roadway Fill from Borrow - Load, Haul, Compact                                    | -        | CY    | -           | -            |                                                          |
|      | 02.05.10 | Load, Haul, and Compact - Scraper - 0.5 Mile Haul                                 | -        | CY    | -           | -            |                                                          |
|      | 02.05.20 | Load, Haul, and Compact - Top Loading - 0.5 Mile Haul                             | -        | CY    | -           | -            |                                                          |
|      | 02.06.00 | Roadway Excavation (Causeway Removal of Alluvium Materials)                       | -        | CY    | -           | -            |                                                          |
|      | 02.07.00 | Roadway Fill (Replacement of Alluvium with 10% Swell Factor)                      | -        | CY    | -           | -            |                                                          |
| 03   | 03.00.00 | Causeway Protection                                                               |          |       |             | \$ -         |                                                          |
|      | 03.01.00 | RSP Fabric (Type A)                                                               | -        | SY    | \$ -        | \$ -         |                                                          |
|      | 03.02.00 | RSP Bedding No. 1 (Method B) - Zone 7A                                            | -        | CY    | \$ -        | \$ -         |                                                          |
|      | 03.02.01 | Blasting operations                                                               | -        | CY    | \$ 6.00     | \$ -         |                                                          |
|      | 03.02.02 | Excavate to Processing                                                            | -        | CY    | \$ 3.00     | \$ -         |                                                          |
|      | 03.02.03 | Process                                                                           | -        | CY    | \$ 30.00    | \$ -         |                                                          |
|      | 03.02.04 | Load, Haul, Place Bedding                                                         | -        | CY    | \$ -        | \$ -         |                                                          |
|      | 03.03.00 | Rock Slope Protection (1/4 T, Method B) - Zone 7B                                 | -        | CY    | \$ -        | \$ -         |                                                          |
|      | 03.03.01 | Blasting operations                                                               | -        | CY    | \$ 6.00     | \$ -         |                                                          |
|      | 03.03.02 | Excavate to Processing                                                            | -        | CY    | \$ 3.00     | \$ -         |                                                          |
|      | 03.03.03 | Process Riprap                                                                    | -        | CY    | \$ 32.00    | \$ -         |                                                          |
|      | 03.03.04 | Load, Haul, Place Rip Rap                                                         | -        | CY    | \$ -        | \$ -         |                                                          |
| 04   | 04.00.00 | Pavement Structural Section                                                       |          | CY    |             | \$ 576,264   |                                                          |
|      | 04.01.00 | Hot Mix Asphalt (Type A)                                                          | -        | TON   | \$ -        | \$ -         |                                                          |
|      | 04.02.00 | Jointed Plain Concrete Pavement (A.K.A. PCC Pavement)                             | -        | CY    | \$ -        | \$ -         |                                                          |
|      | 04.03.00 | Seal Pavement Joint                                                               | -        | LF    | \$ 2.00     | \$ -         |                                                          |
|      | 04.04.00 | Seal Longitudinal Isolation Joint                                                 | -        | LF    | \$ 2.00     | \$ -         |                                                          |
|      | 04.05.00 | Class 2 Aggregate Base                                                            | 4,870    | CY    | \$ 86.50    | \$ 421,264   | Haul 75 Miles, Direct Placement                          |
|      | 04.06.00 | Shoulder Backing (Class 2 AB Material Daylight To Side Slope)                     | 3,100    | TON   | \$ 50.00    | \$ 155,000   |                                                          |
|      | 04.07.00 | Cold Plane Asphalt Concrete Pavement                                              | -        | SY    | \$ 3.00     | \$ -         |                                                          |
|      | 04.08.00 | Tack Coat                                                                         | -        | TON   | \$ -        | \$ -         |                                                          |
|      | 04.09.00 | Full Depth Reclamation-Cement                                                     | -        | SY    | \$ -        | \$ -         | Mixing, Compacting                                       |
|      | 04.10.00 | Cement (Full Depth Reclamation-Cement)                                            | -        | TON   |             |              | Included Above                                           |
|      | 04.11.00 | Supplementary Aggregate (Full Depth Recycling-Cement)                             | -        | TON   |             |              | Included Above                                           |
|      | 04.12.00 | Asphaltic Emulsion (Full Depth Recycling-Cement)                                  | -        | TON   |             |              | Included Above                                           |
|      | 04.13.00 | Sand Cover (Full-Depth Reclamation-Cement)                                        | -        | TON   |             |              | Included Above                                           |
|      | 04.14.00 | Mix Design (Full Depth Recycling-Cement)                                          | -        | LS    |             |              | Included Above                                           |
|      | 04.15.00 | Remove Base And Surfacing                                                         | -        | CY    | \$ 15.00    | \$ -         |                                                          |
|      | 04.16.00 | Obliterate Surfacing                                                              | -        | SY    | \$ 8.00     | \$ -         |                                                          |
| 05   | 05.00.00 | Drainage                                                                          |          |       |             | \$ -         |                                                          |
|      | 05.01.00 | Remove Culvert                                                                    | -        | EA    | \$ 1,950.00 | \$ -         | Assume 30' Each                                          |
|      | 05.02.00 | Abandon Culvert                                                                   | -        | EA    | \$ 1,500.00 | \$ -         | Assume 30' Each                                          |
|      | 05.03.00 | 24" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                         | -        | LF    | \$ 269.60   | \$ -         |                                                          |
|      | 05.04.00 | 54" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                         | -        | LF    | \$ 770.40   | \$ -         |                                                          |
|      | 05.05.00 | Structural Concrete, Box Culvert (Single Cell)                                    | -        | CY    | \$ 2,000.00 | \$ -         |                                                          |
|      | 05.06.00 | Bar Reinforcing Steel (Box Culvert)                                               | -        | LB    | \$ 1.39     | \$ -         |                                                          |

TOTAL ESTIMATE SUMMARY

| Item              | Sub Item | Description                                                                                                                             | Quantity | Unit  | Unit Rate    | Total        | Comment                           |
|-------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------|----------|-------|--------------|--------------|-----------------------------------|
|                   | 05.07.00 | Rock Pad Energy Dissipator (18" D X 5' W X 6' L)                                                                                        | -        | CY    | \$ 175.00    | \$ -         |                                   |
| 06                | 06.00.00 | Specialty Items                                                                                                                         |          |       |              | \$ 24,480    |                                   |
|                   | 06.01.00 | Treated Wood Waste                                                                                                                      | -        | LB    | \$ 0.50      | \$ -         |                                   |
|                   | 06.02.00 | Remove Metal Beam Guard Railing                                                                                                         | -        | LF    | \$ 5.00      | \$ -         |                                   |
|                   | 06.03.00 | Midwest Guardrail System (Wood Post) (Includes Transition Railing, Alternative Flared/In-Line Terminal System, And End Anchor Assembly) | 850      | LF    | \$ 28.80     | \$ 24,480    |                                   |
| 07                | 07.00.00 | Retaining Walls                                                                                                                         |          |       |              | \$ -         |                                   |
|                   | 07.05.00 | Retaining Wall - MSE Wall                                                                                                               | -        | SF    | \$ 134.62    | \$ -         | Allowance                         |
|                   | 07.06.00 | Retaining Wall - Tie-Back Wall                                                                                                          | -        | SF    | \$ 115.38    | \$ -         | Allowance                         |
| 08                | 08.00.00 | Traffic Items                                                                                                                           |          |       |              | \$ 14,000    |                                   |
|                   | 08.01.00 | Roadside Sign - One Post                                                                                                                | 4        | LF    | \$ 3,500.00  | \$ 14,000    |                                   |
|                   | 08.02.00 | Two-Component Paint Traffic Stripe (6" Yellow), (Includes 2 Yellow Stripes And One                                                      | -        | EA    | \$ 1.97      | \$ -         |                                   |
|                   | 08.03.00 | Two-Component Paint Traffic Stripe (6" White)                                                                                           | -        | EA    | \$ 0.66      | \$ -         |                                   |
|                   | 08.04.00 | Two-Component Paint Pavement Marking                                                                                                    | -        | SQFT  | \$ 14.15     | \$ -         |                                   |
|                   | 08.05.00 | Construction Area Signs                                                                                                                 | -        | LS    | \$ 2,881.32  | \$ -         | Allow 0.5% of Structural Section  |
|                   | 08.06.00 | Portable Changeable Message Sign                                                                                                        | -        | LS    | \$ 1,440.66  | \$ -         | Allow 0.25% of Structural Section |
|                   | 08.07.00 | Traffic Control System                                                                                                                  | -        | LS    | \$ 1,440.66  | \$ -         | Allow 0.25% of Structural Section |
| 09                | 09.00.00 | Detours - Install and Remove                                                                                                            |          |       |              | \$ -         |                                   |
|                   | 09.01.00 | Temporary Hot Mix Asphalt (Type A)                                                                                                      | -        | CY    | \$ 129.60    | \$ -         |                                   |
|                   | 09.02.00 | Temporary Class 2 Aggregate Base                                                                                                        | -        | CY    | \$ 100.00    | \$ -         |                                   |
| 10                | 10.00.00 | Bridges                                                                                                                                 |          |       |              | \$ -         |                                   |
|                   | 10.01.00 | Sites Lodoga Road Realignment - New Bridge - CIP PS Concrete Box Girder                                                                 | -        | SF    | \$ 750.00    | \$ -         |                                   |
|                   | 10.02.00 | Road 69 - Replacement (Culver/Bridge)- PC/PS Concrete Slab Girder                                                                       | -        | SF    | \$ 416.67    | \$ -         |                                   |
|                   | 10.03.00 | Road 69 - Replacement Bridge - PC/PS Concrete Box Girder                                                                                | -        | SF    | \$ 583.33    | \$ -         |                                   |
|                   | 10.04.00 | Road 69 - Bridge Widening                                                                                                               | -        | SF    | \$ 50.00     | \$ -         |                                   |
|                   | 10.05.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | -        | SF    | \$ 583.33    | \$ -         |                                   |
|                   | 10.06.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | -        | SF    | \$ 583.33    | \$ -         |                                   |
|                   | 10.07.00 | Funks Construction Access Road - New Bridge - PC/PS Concrete Box Girder                                                                 | -        | SF    | \$ 500.00    | \$ -         |                                   |
|                   | 10.08.00 | Dam Spillway - New Bridge - PC/PS Concrete Slab Girder                                                                                  | -        | SF    | \$ 416.67    | \$ -         |                                   |
| 15                | 15.00.00 | ALLOWANCE FOR UNLISTED ITEMS                                                                                                            |          |       |              | \$ 246,290   |                                   |
|                   | 15.01.00 | Allowance for Unlisted Items                                                                                                            | 5.0%     | %     | \$ 4,925,798 | \$ 246,290   |                                   |
| Total Direct Cost |          |                                                                                                                                         | 1.58     | Miles | \$ 3,263,849 | \$ 5,172,088 |                                   |

Sites Reservoir: 21C - I/O Access Road  
 30% Cost Estimate  
 Sites, CA

Cost Estimate  
 AACEI Class 3  
 February 28, 2025

# **TOTAL ESTIMATE SUMMARY**

|                                                           |                  |      |                  |
|-----------------------------------------------------------|------------------|------|------------------|
| Total Direct Cost                                         |                  |      | 2,311,175        |
| <b>TOTAL DIRECT COST BEFORE CONTRACTOR INDIRECT COSTS</b> |                  |      | <b>2,311,175</b> |
| Mobilization                                              | 3.0%             |      | 69,335           |
| Field Overhead Costs (GC&GR)                              | 12.5%            |      | 297,564          |
| Insurance                                                 | 2.0%             |      | 53,561           |
| Bonds                                                     | 0.6%             |      | 16,390           |
| <b>Total Contractor Indirect Costs</b>                    |                  |      | <b>436,850</b>   |
| <b>TOTAL CONTACTOR COSTS</b>                              |                  |      | <b>2,748,025</b> |
| Home Office Overhead (G&A)                                | 5.5%             |      | 151,141          |
| GC Profit                                                 | 8.0%             |      | 231,933          |
| <b>Total Contractor Overhead and Profit</b>               |                  |      | <b>383,074</b>   |
| <b>TOTAL CONSTRUCTION COST BEFORE CONTINGENCIES</b>       |                  |      | <b>3,131,099</b> |
| Contingencies                                             |                  |      |                  |
| Design Contingencies                                      | 12.7%            |      | 397,650          |
| Construction Contingencies                                | 15.0%            |      | 529,312          |
| <b>Total Contingency Allowance</b>                        |                  |      | <b>926,962</b>   |
| <b>TOTAL COST BEFORE ESCALATION</b>                       |                  |      | <b>4,058,061</b> |
| Escalation to Mid-point of Construction                   | <i>By Others</i> | 0%   | -                |
| <b>RECOMMENDED CONSTRUCTION BUDGET</b>                    |                  |      | <b>4,058,061</b> |
| Non-Contract Costs                                        | <i>By Others</i> | 0.0% | -                |
| <b>TOTAL ESTIMATE</b>                                     |                  |      | <b>4,058,061</b> |

DIRECT COST LEVEL 2 SUMMARY

| Item | Sub Item | Description                                                                                                                             | UoM   | Qty     | Unit Rate | Total     |
|------|----------|-----------------------------------------------------------------------------------------------------------------------------------------|-------|---------|-----------|-----------|
|      |          | Total Road Length                                                                                                                       | Miles | 0.3     |           | 7,728,312 |
|      |          | Total Road Length                                                                                                                       | LF    | 1,579   |           | 1,464     |
|      |          | Average Width                                                                                                                           | Feet  | 15      |           |           |
|      |          | Area                                                                                                                                    | SF    | 23,685  |           | 98        |
| 01   | 01.00.00 | Preconstruction Activities                                                                                                              |       |         |           | 63,895    |
|      | 01.01.00 | Clearing And Grubbing                                                                                                                   | ACRE  | 7       | 8,000.00  | 56,000    |
|      | 01.02.00 | Temporary Silt Fence                                                                                                                    | LF    | 3,948   | 2.00      | 7,895     |
| 02   | 02.00.00 | Roadway Excavation                                                                                                                      | CY    | 116,810 | 16.94     | 1,978,244 |
|      | 02.01.00 | Roadway Excavation - Load, Haul, Compact - Top Loading                                                                                  | CY    | 12,130  | 11.06     | 134,111   |
|      | 02.02.00 | Roadway Excavation - Load, Haul, Compact - Excess - Top Loading                                                                         | CY    | 93,000  | 10.45     | 972,308   |
|      | 02.03.00 | Roadway Excavation - Load, Haul, Waste - Organics - Scraper                                                                             | CY    | 11,680  | 6.55      | 76,463    |
|      | 02.04.00 | Roadway Excavation - Rock Cut - Drill and Shoot                                                                                         | CY    | 89,360  | 8.90      | 795,362   |
|      | 02.05.00 | Roadway Fill from Borrow - Load, Haul, Compact                                                                                          | CY    | -       |           | -         |
|      | 02.06.00 | Roadway Excavation (Causeway Removal of Alluvium Materials)                                                                             | CY    | -       |           | -         |
|      | 02.07.00 | Roadway Fill (Replacement of Alluvium with 10% Swell Factor)                                                                            | CY    | -       |           | -         |
| 03   | 03.00.00 | Causeway Protection                                                                                                                     |       |         |           | -         |
|      | 03.01.00 | RSP Fabric (Type A)                                                                                                                     | SY    | -       |           | -         |
|      | 03.02.00 | RSP Bedding No. 1 (Method B) - Zone 7A                                                                                                  | CY    | -       |           | -         |
|      | 03.03.00 | Rock Slope Protection (1/4 T, Method B) - Zone 7B                                                                                       | CY    | -       |           | -         |
| 04   | 04.00.00 | Pavement Structural Section                                                                                                             |       |         |           | 131,864   |
|      | 04.01.00 | Hot Mix Asphalt (Type A)                                                                                                                | TON   | -       |           | -         |
|      | 04.02.00 | Jointed Plain Concrete Pavement (A.K.A. PCC Pavement)                                                                                   | CY    | -       |           | -         |
|      | 04.03.00 | Seal Pavement Joint                                                                                                                     | LF    | -       |           | -         |
|      | 04.04.00 | Seal Longitudinal Isolation Joint                                                                                                       | LF    | -       |           | -         |
|      | 04.05.00 | Class 2 Aggregate Base                                                                                                                  | CY    | 1,030   | 87.73     | 90,364    |
|      | 04.06.00 | Shoulder Backing (Class 2 AB Material Daylight To Side Slope)                                                                           | TON   | 830     | 50.00     | 41,500    |
|      | 04.07.00 | Cold Plane Asphalt Concrete Pavement                                                                                                    | SY    | -       |           | -         |
|      | 04.08.00 | Tack Coat                                                                                                                               | TON   | -       |           | -         |
|      | 04.09.00 | Full Depth Reclamation-Cement                                                                                                           | SY    | -       |           | -         |
|      | 04.15.00 | Remove Base And Surfacing                                                                                                               | CY    | -       |           | -         |
|      | 04.16.00 | Obliterate Surfacing                                                                                                                    | SY    | -       |           | -         |
| 05   | 05.00.00 | Drainage                                                                                                                                |       |         |           | -         |
|      | 05.01.00 | Remove Culvert                                                                                                                          | EA    | -       |           | -         |
|      | 05.02.00 | Abandon Culvert                                                                                                                         | EA    | -       |           | -         |
|      | 05.03.00 | 24" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                                                                               | LF    | -       |           | -         |
|      | 05.04.00 | 54" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                                                                               | LF    | -       |           | -         |
|      | 05.05.00 | Structural Concrete, Box Culvert (Single Cell)                                                                                          | CY    | -       |           | -         |
|      | 05.06.00 | Bar Reinforcing Steel (Box Culvert)                                                                                                     | LB    | -       |           | -         |
|      | 05.07.00 | Rock Pad Energy Dissipator (18" D X 5' W X 6' L)                                                                                        | CY    | -       |           | -         |
| 06   | 06.00.00 | Specialty Items                                                                                                                         |       |         |           | 23,616    |
|      | 06.01.00 | Treated Wood Waste                                                                                                                      | LB    | -       |           | -         |
|      | 06.02.00 | Remove Metal Beam Guard Railing                                                                                                         | LF    | -       |           | -         |
|      | 06.03.00 | Midwest Guardrail System (Wood Post) (Includes Transition Railing, Alternative Flared/In-Line Terminal System, And End Anchor Assembly) | LF    | 820     | 28.80     | 23,616    |
| 07   | 07.00.00 | Retaining Walls                                                                                                                         |       |         |           | -         |
|      | 07.05.00 | Retaining Wall - MSE Wall                                                                                                               | SF    | -       |           | -         |
|      | 07.06.00 | Retaining Wall - Tie-Back Wall                                                                                                          | SF    | -       |           | -         |
| 08   | 08.00.00 | Traffic Items                                                                                                                           |       |         |           | 3,500     |
|      | 08.01.00 | Roadside Sign - One Post                                                                                                                | LF    | 1       | 3,500.00  | 3,500     |
|      | 08.02.00 | Two-Component Paint Traffic Stripe (6" Yellow), (Includes 2 Yellow Stripes And One Black)                                               | EA    | -       |           | -         |
|      | 08.03.00 | Two-Component Paint Traffic Stripe (6" White)                                                                                           | EA    | -       |           | -         |
|      | 08.04.00 | Two-Component Paint Pavement Marking                                                                                                    | SQFT  | -       |           | -         |
|      | 08.05.00 | Construction Area Signs                                                                                                                 | LS    | -       |           | -         |
|      | 08.06.00 | Portable Changeable Message Sign                                                                                                        | LS    | -       |           | -         |
|      | 08.07.00 | Traffic Control System                                                                                                                  | LS    | -       |           | -         |
| 09   | 09.00.00 | Detours - Install and Remove                                                                                                            |       |         |           | -         |
|      | 09.01.00 | Temporary Hot Mix Asphalt (Type A)                                                                                                      | CY    | -       |           | -         |
|      | 09.02.00 | Temporary Class 2 Aggregate Base                                                                                                        | CY    | -       |           | -         |
| 10   | 10.00.00 | Bridges                                                                                                                                 |       |         |           | -         |
|      | 10.01.00 | Sites Lodoga Road Realignment - New Bridge - CIP PS Concrete Box Girder                                                                 | SF    | -       |           | -         |
|      | 10.02.00 | Road 69 - Replacement (Culver/Bridge)- PC/PS Concrete Slab Girder                                                                       | SF    | -       |           | -         |
|      | 10.03.00 | Road 69 - Replacement Bridge - PC/PS Concrete Box Girder                                                                                | SF    | -       |           | -         |
|      | 10.04.00 | Road 69 - Bridge Widening                                                                                                               | SF    | -       |           | -         |
|      | 10.05.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | SF    | -       |           | -         |
|      | 10.06.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | SF    | -       |           | -         |
|      | 10.07.00 | Funks Construction Access Road - New Bridge - PC/PS Concrete Box Girder                                                                 | SF    | -       |           | -         |
|      | 10.08.00 | Dam Spillway - New Bridge - PC/PS Concrete Slab Girder                                                                                  | SF    | -       |           | -         |
| 15   | 15.00.00 | ALLOWANCE FOR UNLISTED ITEMS                                                                                                            |       |         |           | 110,056   |
|      | 15.01.00 | Allowance for Unlisted Items                                                                                                            | %     | 5.0%    |           | 110,056   |
|      |          | Total Direct Cost                                                                                                                       | -     |         |           | 2,311,175 |

TOTAL ESTIMATE SUMMARY

| Item | Sub Item | Description                                                                       | Quantity | Unit  | Unit Rate   | Total        | Comment                                                  |
|------|----------|-----------------------------------------------------------------------------------|----------|-------|-------------|--------------|----------------------------------------------------------|
|      |          | Total Road Length                                                                 | 0.3      | Miles |             |              |                                                          |
|      |          | Total Road Length                                                                 | 1,579    | LF    |             |              |                                                          |
|      |          | Average Width                                                                     | 15       | Feet  |             |              |                                                          |
|      |          | Area                                                                              | 23,685   | SF    |             |              |                                                          |
| 01   | 01.00.00 | Preconstruction Activities                                                        |          |       | \$ -        | \$ 63,895    |                                                          |
|      | 01.01.00 | Clearing And Grubbing                                                             | 7        | ACRE  | \$ 8,000.00 | \$ 56,000    |                                                          |
|      | 01.02.00 | Temporary Silt Fence                                                              | 3,948    | LF    | \$ 2.00     | \$ 7,895     | Allowance by Estimating                                  |
| 02   | 02.00.00 | Roadway Excavation                                                                |          |       |             | \$ 1,978,244 |                                                          |
|      | 02.01.00 | Roadway Excavation - Load, Haul, Compact - Top Loading - 0.175 Mile Haul          | 12,130   | CY    | 11.06       | 134,111      | Includes Rock Excavation Load, Haul, Compact             |
|      | 02.02.00 | Roadway Excavation - Load, Haul, Compact - Excess - Top Loading - 0.175 Mile Haul | 93,000   | CY    | 10.45       | 972,308      | Includes Rock Excavation Load, Haul, Compact             |
|      | 02.03.00 | Roadway Excavation - Load, Haul, Waste - Organics - Scraper - 0.25 Mile Haul      | 11,680   | CY    | 6.55        | 76,463       |                                                          |
|      | 02.04.00 | Roadway Excavation - Rock Cut - Drill and Shoot                                   | 89,360   | CY    | 8.90        | 795,362      |                                                          |
|      | 02.04.10 | Drill Rock & Shoot                                                                | 89,360   | CY    | 8.90        | 795,362      | Drill and Shoot Only                                     |
|      | 02.04.20 | Load, Haul, Stockpile                                                             | -        | CY    | -           | -            | Load, haul, compact included above 02.01.00 and 02.02.00 |
|      | 02.05.00 | Roadway Fill from Borrow - Load, Haul, Compact                                    | -        | CY    | -           | -            |                                                          |
|      | 02.05.10 | Load, Haul, and Compact - Scraper - 0.5 Mile Haul                                 | -        | CY    | -           | -            |                                                          |
|      | 02.05.20 | Load, Haul, and Compact - Top Loading - 0.5 Mile Haul                             | -        | CY    | -           | -            |                                                          |
|      | 02.06.00 | Roadway Excavation (Causeway Removal of Alluvium Materials)                       | -        | CY    | -           | -            |                                                          |
|      | 02.07.00 | Roadway Fill (Replacement of Alluvium with 10% Swell Factor)                      | -        | CY    | -           | -            |                                                          |
| 03   | 03.00.00 | Causeway Protection                                                               |          |       |             | \$ -         |                                                          |
|      | 03.01.00 | RSP Fabric (Type A)                                                               | -        | SY    | \$ -        | \$ -         |                                                          |
|      | 03.02.00 | RSP Bedding No. 1 (Method B) - Zone 7A                                            | -        | CY    | \$ -        | \$ -         |                                                          |
|      | 03.02.01 | Blasting operations                                                               | -        | CY    | \$ 6.00     | \$ -         |                                                          |
|      | 03.02.02 | Excavate to Processing                                                            | -        | CY    | \$ 3.00     | \$ -         |                                                          |
|      | 03.02.03 | Process                                                                           | -        | CY    | \$ 30.00    | \$ -         |                                                          |
|      | 03.02.04 | Load, Haul, Place Bedding                                                         | -        | CY    | \$ -        | \$ -         |                                                          |
|      | 03.03.00 | Rock Slope Protection (1/4 T, Method B) - Zone 7B                                 | -        | CY    | \$ -        | \$ -         |                                                          |
|      | 03.03.01 | Blasting operations                                                               | -        | CY    | \$ 6.00     | \$ -         |                                                          |
|      | 03.03.02 | Excavate to Processing                                                            | -        | CY    | \$ 3.00     | \$ -         |                                                          |
|      | 03.03.03 | Process Riprap                                                                    | -        | CY    | \$ 32.00    | \$ -         |                                                          |
|      | 03.03.04 | Load, Haul, Place Rip Rap                                                         | -        | CY    | \$ -        | \$ -         |                                                          |
| 04   | 04.00.00 | Pavement Structural Section                                                       |          | CY    |             | \$ 131,864   |                                                          |
|      | 04.01.00 | Hot Mix Asphalt (Type A)                                                          | -        | TON   | \$ -        | \$ -         |                                                          |
|      | 04.02.00 | Jointed Plain Concrete Pavement (A.K.A. PCC Pavement)                             | -        | CY    | \$ -        | \$ -         |                                                          |
|      | 04.03.00 | Seal Pavement Joint                                                               | -        | LF    | \$ 2.00     | \$ -         |                                                          |
|      | 04.04.00 | Seal Longitudinal Isolation Joint                                                 | -        | LF    | \$ 2.00     | \$ -         |                                                          |
|      | 04.05.00 | Class 2 Aggregate Base                                                            | 1,030    | CY    | \$ 87.73    | \$ 90,364    | Haul 75 Miles, Direct Placement                          |
|      | 04.06.00 | Shoulder Backing (Class 2 AB Material Daylight To Side Slope)                     | 830      | TON   | \$ 50.00    | \$ 41,500    |                                                          |
|      | 04.07.00 | Cold Plane Asphalt Concrete Pavement                                              | -        | SY    | \$ 3.00     | \$ -         |                                                          |
|      | 04.08.00 | Tack Coat                                                                         | -        | TON   | \$ -        | \$ -         |                                                          |
|      | 04.09.00 | Full Depth Reclamation-Cement                                                     | -        | SY    | \$ -        | \$ -         | Mixing, Compacting                                       |
|      | 04.10.00 | Cement (Full Depth Reclamation-Cement)                                            | -        | TON   |             |              | Included Above                                           |
|      | 04.11.00 | Supplementary Aggregate (Full Depth Recycling-Cement)                             | -        | TON   |             |              | Included Above                                           |
|      | 04.12.00 | Asphaltic Emulsion (Full Depth Recycling-Cement)                                  | -        | TON   |             |              | Included Above                                           |
|      | 04.13.00 | Sand Cover (Full-Depth Reclamation-Cement)                                        | -        | TON   |             |              | Included Above                                           |
|      | 04.14.00 | Mix Design (Full Depth Recycling-Cement)                                          | -        | LS    |             |              | Included Above                                           |
|      | 04.15.00 | Remove Base And Surfacing                                                         | -        | CY    | \$ 15.00    | \$ -         |                                                          |
|      | 04.16.00 | Obliterate Surfacing                                                              | -        | SY    | \$ 8.00     | \$ -         |                                                          |
| 05   | 05.00.00 | Drainage                                                                          |          |       |             | \$ -         |                                                          |
|      | 05.01.00 | Remove Culvert                                                                    | -        | EA    | \$ 1,950.00 | \$ -         | Assume 30' Each                                          |
|      | 05.02.00 | Abandon Culvert                                                                   | -        | EA    | \$ 1,500.00 | \$ -         | Assume 30' Each                                          |
|      | 05.03.00 | 24" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                         | -        | LF    | \$ 269.60   | \$ -         |                                                          |
|      | 05.04.00 | 54" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                         | -        | LF    | \$ 770.40   | \$ -         |                                                          |
|      | 05.05.00 | Structural Concrete, Box Culvert (Single Cell)                                    | -        | CY    | \$ 2,000.00 | \$ -         |                                                          |
|      | 05.06.00 | Bar Reinforcing Steel (Box Culvert)                                               | -        | LB    | \$ 1.39     | \$ -         |                                                          |

TOTAL ESTIMATE SUMMARY

| Item              | Sub Item | Description                                                                                                                             | Quantity | Unit  | Unit Rate    | Total        | Comment                           |
|-------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------|----------|-------|--------------|--------------|-----------------------------------|
|                   | 05.07.00 | Rock Pad Energy Dissipator (18" D X 5' W X 6' L)                                                                                        | -        | CY    | \$ 175.00    | \$ -         |                                   |
| 06                | 06.00.00 | Specialty Items                                                                                                                         |          |       |              | \$ 23,616    |                                   |
|                   | 06.01.00 | Treated Wood Waste                                                                                                                      | -        | LB    | \$ 0.50      | \$ -         |                                   |
|                   | 06.02.00 | Remove Metal Beam Guard Railing                                                                                                         | -        | LF    | \$ 5.00      | \$ -         |                                   |
|                   | 06.03.00 | Midwest Guardrail System (Wood Post) (Includes Transition Railing, Alternative Flared/In-Line Terminal System, And End Anchor Assembly) | 820      | LF    | \$ 28.80     | \$ 23,616    |                                   |
| 07                | 07.00.00 | Retaining Walls                                                                                                                         |          |       |              | \$ -         |                                   |
|                   | 07.05.00 | Retaining Wall - MSE Wall                                                                                                               | -        | SF    | \$ 134.62    | \$ -         | Allowance                         |
|                   | 07.06.00 | Retaining Wall - Tie-Back Wall                                                                                                          | -        | SF    | \$ 115.38    | \$ -         | Allowance                         |
| 08                | 08.00.00 | Traffic Items                                                                                                                           |          |       |              | \$ 3,500     |                                   |
|                   | 08.01.00 | Roadside Sign - One Post                                                                                                                | 1        | LF    | \$ 3,500.00  | \$ 3,500     |                                   |
|                   | 08.02.00 | Two-Component Paint Traffic Stripe (6" Yellow), (Includes 2 Yellow Stripes And One                                                      | -        | EA    | \$ 1.97      | \$ -         |                                   |
|                   | 08.03.00 | Two-Component Paint Traffic Stripe (6" White)                                                                                           | -        | EA    | \$ 0.66      | \$ -         |                                   |
|                   | 08.04.00 | Two-Component Paint Pavement Marking                                                                                                    | -        | SQFT  | \$ 14.15     | \$ -         |                                   |
|                   | 08.05.00 | Construction Area Signs                                                                                                                 | -        | LS    | \$ 659.32    | \$ -         | Allow 0.5% of Structural Section  |
|                   | 08.06.00 | Portable Changeable Message Sign                                                                                                        | -        | LS    | \$ 329.66    | \$ -         | Allow 0.25% of Structural Section |
|                   | 08.07.00 | Traffic Control System                                                                                                                  | -        | LS    | \$ 329.66    | \$ -         | Allow 0.25% of Structural Section |
| 09                | 09.00.00 | Detours - Install and Remove                                                                                                            |          |       |              | \$ -         |                                   |
|                   | 09.01.00 | Temporary Hot Mix Asphalt (Type A)                                                                                                      | -        | CY    | \$ 129.60    | \$ -         |                                   |
|                   | 09.02.00 | Temporary Class 2 Aggregate Base                                                                                                        | -        | CY    | \$ 100.00    | \$ -         |                                   |
| 10                | 10.00.00 | Bridges                                                                                                                                 |          |       |              | \$ -         |                                   |
|                   | 10.01.00 | Sites Lodoga Road Realignment - New Bridge - CIP PS Concrete Box Girder                                                                 | -        | SF    | \$ 750.00    | \$ -         |                                   |
|                   | 10.02.00 | Road 69 - Replacement (Culver/Bridge)- PC/PS Concrete Slab Girder                                                                       | -        | SF    | \$ 416.67    | \$ -         |                                   |
|                   | 10.03.00 | Road 69 - Replacement Bridge - PC/PS Concrete Box Girder                                                                                | -        | SF    | \$ 583.33    | \$ -         |                                   |
|                   | 10.04.00 | Road 69 - Bridge Widening                                                                                                               | -        | SF    | \$ 50.00     | \$ -         |                                   |
|                   | 10.05.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | -        | SF    | \$ 583.33    | \$ -         |                                   |
|                   | 10.06.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | -        | SF    | \$ 583.33    | \$ -         |                                   |
|                   | 10.07.00 | Funks Construction Access Road - New Bridge - PC/PS Concrete Box Girder                                                                 | -        | SF    | \$ 500.00    | \$ -         |                                   |
|                   | 10.08.00 | Dam Spillway - New Bridge - PC/PS Concrete Slab Girder                                                                                  | -        | SF    | \$ 416.67    | \$ -         |                                   |
| 15                | 15.00.00 | ALLOWANCE FOR UNLISTED ITEMS                                                                                                            |          |       |              | \$ 110,056   |                                   |
|                   | 15.01.00 | Allowance for Unlisted Items                                                                                                            | 5.0%     | %     | \$ 2,201,119 | \$ 110,056   |                                   |
| Total Direct Cost |          |                                                                                                                                         | 0.30     | Miles | \$ 7,728,312 | \$ 2,311,175 |                                   |

Sites Reservoir: 22A - Sites Dam  
30% Cost Estimate  
Sites, CA

Cost Estimate  
AAECI Class 3  
February 28, 2025

**TOTAL ESTIMATE SUMMARY**

|                                                    |           |      |             |
|----------------------------------------------------|-----------|------|-------------|
| Total Direct Cost                                  |           |      | 138,500,995 |
| TOTAL DIRECT COST BEFORE CONTRACTOR INDIRECT COSTS |           |      | 138,500,995 |
| Mobilization                                       | 5.0%      |      | 6,925,050   |
| Field Overhead Costs (GC&GR)                       | 17.0%     |      | 24,722,428  |
| Insurance                                          | 2.0%      |      | 3,402,969   |
| Bonds                                              | 0.6%      |      | 1,041,309   |
| Total Contractor Indirect Costs                    |           |      | 36,091,756  |
| TOTAL CONTRACTOR COSTS                             |           |      | 174,592,751 |
| Home Office Overhead (G&A)                         | 6.5%      |      | 11,348,529  |
| GC Profit                                          | 10.0%     |      | 18,594,128  |
| Total Contractor Overhead and Profit               |           |      | 29,942,657  |
| TOTAL CONSTRUCTION COST BEFORE CONTINGENCIES       |           |      | 204,535,408 |
| Contingencies                                      |           |      |             |
| Design Contingencies                               | 15.3%     |      | 31,293,917  |
| Construction Contingencies                         | 15.0%     |      | 35,374,399  |
| Total Contingency Allowance                        |           |      | 66,668,316  |
| TOTAL COST BEFORE ESCALATION                       |           |      | 271,203,724 |
| Escalation to Mid-point of Construction            | By Others | 0%   | -           |
| RECOMMENDED CONSTRUCTION BUDGET                    |           |      | 271,203,724 |
| Non-Contract Costs                                 | By Others | 0.0% | -           |
| TOTAL ESTIMATE                                     |           |      | 271,203,724 |

DIRECT COST LEVEL 2 SUMMARY

| Item | Sub Item | Description                                                  | UoM    | 30% Cost Estimate |           |            |
|------|----------|--------------------------------------------------------------|--------|-------------------|-----------|------------|
|      |          |                                                              |        | Qty               | Unit Rate | Total      |
| 01   | 01.00.00 | PRECONSTRUCTION ACTIVITIES                                   |        |                   |           | 3,698,373  |
|      | 01.01.00 | Demolition Work                                              | LS     | -                 |           | Elsewhere  |
|      | 01.02.00 | Clearing and Grubbing                                        | ACRE   | 27                | 10,250    | 276,757    |
|      | 01.03.00 | Reservoir Clearing                                           | ACRE   | -                 |           | -          |
|      | 01.04.00 | Erosion and Sediment Control                                 | ACRE   | 27                | 108,236   | 2,922,370  |
|      | 01.05.00 | Developing haul routes - Haul routes inside reservoir        | ACRES  | 22                | 11,151    | 245,314    |
|      | 01.06.00 | Developing haul routes - Haul routes outside reservoir       | ACRES  | 15                | 11,151    | 167,259    |
|      | 01.07.00 | Developing Stockpile and Staging Areas                       | ACRES  | 5                 | 17,335    | 86,674     |
| 02   | 02.00.00 | COFFERDAM                                                    |        |                   |           | 5,981,191  |
|      | 02.01.00 | Cofferdam Excavation                                         | BCY    | 189,100           | 16        | 3,024,381  |
|      | 02.02.00 | Cofferdam - Zone 6                                           | ECY    | 48,600            | 12        | 583,736    |
|      | 02.03.00 | Cofferdam - Zone 9                                           | ECY    | 94,100            | 13        | 1,263,074  |
|      | 02.04.00 | Cofferdam - Cutoff Wall                                      | SF     | 24,000            | 40        | 960,000    |
|      | 02.05.00 | Cofferdam - Dewatering Allowance                             | LS     | 1                 | 150,000   | 150,000    |
| 04   | 04.00.00 | FOUNDATION EXCAVATION                                        |        |                   |           | 6,790,031  |
|      | 04.01.00 | Topsoil Salvage                                              | BCY    | 58,000            | 6         | 354,478    |
|      | 04.02.00 | Drill and Shoot Foundation                                   | BCY    | 41,700            | 15        | 619,757    |
|      | 04.03.00 | Dam Foundation Excavation                                    | BCY    | 417,000           | 12        | 4,855,796  |
|      | 04.05.00 | Dewatering allowance                                         | Months | 12                | 80,000    | 960,000    |
| 05   | 05.00.00 | FOUNDATION PREPARATION - BENEATH CORE                        |        |                   |           | 3,815,443  |
|      | 05.01.00 | Initial Foundation Cleaning - Core                           | SY     | 9,500             | 27        | 252,991    |
|      | 05.02.00 | Final Foundation Cleaning - Core                             | SY     | 9,500             | 35        | 333,489    |
|      | 05.03.00 | Dental Excavation                                            | CY     | 2,900             | 27        | 77,144     |
|      | 05.04.00 | Dental Concrete                                              | CY     | 2,900             | 530       | 1,536,053  |
|      | 05.05.00 | Backfill Concrete                                            | CY     | 2,150             | 408       | 877,272    |
|      | 05.06.00 | Shaping Excavations                                          | CY     | 200               | 48        | 9,643      |
|      | 05.07.00 | Slush Grout                                                  | Sacks  | 2,850             | 256       | 728,851    |
| 06   | 06.00.00 | GROUTING                                                     |        |                   |           | 23,732,860 |
|      | 06.01.00 | Grout Cap                                                    | CY     | 2,950             | 1,730     | 5,102,669  |
|      | 06.02.00 | Grout Cap Anchors                                            | LF     | 2,040             | 180       | 367,802    |
|      | 06.03.00 | Grout Cut Off Wall                                           | CY     | -                 |           | -          |
|      | 06.04.00 | Curtain Grouting - Includes Stich and Fans                   | LF     | 79,700            | 224       | 17,869,615 |
|      | 06.05.00 | Consolidation Grouting                                       | LF     | -                 |           | -          |
|      | 06.06.00 | Type III Cement                                              | Tons   | 1,428             | 275       | 392,775    |
| 07   | 07.00.00 | FOUNDATION PREPARATION - BENEATH SHELL                       |        |                   |           | 385,746    |
|      | 07.01.00 | Foundation Cleaning - Shell                                  | SY     | 94,000            | 4         | 385,746    |
| 08   | 08.00.00 | FOUNDATION DRAINAGE                                          |        |                   |           | 179,398    |
|      | 08.01.00 | Furnish and Install Foundation Drain Pipe                    | LF     | 350               | 278       | 97,280     |
|      | 08.02.00 | Furnish and Install Foundation Drain Manholes                | EA     | 2                 | 20,529    | 41,059     |
|      | 08.03.00 | Furnish and Install Inspection Well                          | EA     | 2                 | 20,529    | 41,059     |
| 09   | 09.00.00 | ROCK BORROW AREA - DEVELOP, PROCESSING, AND RESTORATION      |        |                   |           | 32,582,142 |
|      | 09.01.00 | Strip/Overburden/Waste to Stockpile                          | BCY    | 589,900           | 9         | 5,295,697  |
|      | 09.02.00 | Drill, Blast, Excavate to Crusher and Riprap Process         | BCY    | 1,922,299         | 7         | 13,117,983 |
|      | 09.03.00 | Zone 4A, 4B, Zone 7A Processing                              | ECY    | 160,700           | 32        | 5,142,400  |
|      | 09.04.00 | Riprap and Groin Processing                                  | ECY    | 67,500            | 30        | 2,025,000  |
|      | 09.05.00 | Removal of Excess Sand/Siltstone                             | BCY    | 377,600           | 13        | 5,006,773  |
|      | 09.06.00 | Replace Overburden from Stockpile                            | ECY    | 106,000           | 7         | 711,030    |
|      | 09.07.00 | Topsoil Replacement                                          | ECY    | 58,000            | 10        | 577,952    |
|      | 09.08.00 | Seeding                                                      | SF     | 1,638,000         | 0         | 705,306    |
| 10   | 10.00.00 | EMBANKMENT                                                   |        |                   |           | 51,842,685 |
|      | 10.01.00 | Furnish and Install Zone 1 - Core                            | ECY    | 276,900           | 26        | 7,132,420  |
|      | 10.02.00 | Purchase, Haul and Place - Zone 2 - Filter                   | ECY    | 76,000            | 155       | 11,745,778 |
|      | 10.03.00 | Purchase, Haul and Place - Zone 3 - Drain                    | ECY    | 57,900            | 147       | 8,507,481  |
|      | 10.04.00 | Produce, Haul and Place - Zone 4A - Fine Transition          | ECY    | 47,000            | 35        | 1,662,653  |
|      | 10.05.00 | Produce, Haul and Place - Zone 4B - Coarse Transition        | ECY    | 113,700           | 32        | 3,688,278  |
|      | 10.06.00 | Produce, Haul and Place - Zone 8 - Fine Transition - Saddles | ECY    | -                 |           | -          |

Sites Reservoir: 22A - Sites Dam  
30% Cost Estimate  
Sites, CA

Cost Estimate  
AACEI Class 3  
May 22, 2024

| DIRECT COST LEVEL 2 SUMMARY |          |                                                                                                                                                |     |           |           |             |
|-----------------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|-----------|-------------|
|                             | 10.07.00 | Furnish and Install Zone 5&6 Sand/Siltstone - Rockfill                                                                                         | ECY | 1,955,400 | 8.84      | 17,286,812  |
|                             | 10.08.00 | Furnish and Install Zone - 9 Random                                                                                                            | ECY | -         |           | -           |
|                             | 10.09.00 | Produce, Haul and Place - Zone 7A - Bedding - Saddles                                                                                          | ECY | -         |           | -           |
|                             | 10.10.00 | Produce, Haul and Place - Zone 7B - Riprap                                                                                                     | ECY | 67,500    | 27        | 1,819,262   |
|                             | 10.11.00 | Produce, Haul and Place - Groin Protection - Saddles                                                                                           | ECY | -         |           | -           |
| 11                          | 11.00.00 | INSTRUMENTATION AND TELEMETRY                                                                                                                  |     |           |           | 1,349,500   |
|                             | 11.01.00 | Instrumentation/Telemetry: Instrumentation/Telemetry (piezometers, settlement monitors (survey monuments), seismographs, and slope indicators) | LS  | 1         | 1,349,500 | 1,349,500   |
| 12                          | 12.00.00 | SITE RESTORATION                                                                                                                               |     |           |           | 1,548,342   |
|                             | 12.01.00 | Seeding                                                                                                                                        | SF  | 240,000   | 0         | 103,342     |
|                             | 12.02.00 | Fencing                                                                                                                                        | LF  | 600       | 75        | 45,000      |
|                             | 12.03.00 | Best Management Practices                                                                                                                      | LS  | 1         | 800,000   | 800,000     |
|                             | 12.04.00 | Rock Check Dams                                                                                                                                | LS  | 1         | 300,000   | 300,000     |
|                             | 12.05.00 | Drainage - Inlets, Culverts                                                                                                                    | LS  | 1         | 300,000   | 300,000     |
| 15                          | 15.00.00 | ALLOWANCE FOR UNLISTED ITEMS                                                                                                                   |     |           |           | 6,595,285   |
| ed                          | 15.01.00 | Allowance for Unlisted Items                                                                                                                   | %   | 5%        |           | 6,595,285   |
| Total Direct Cost           |          |                                                                                                                                                |     |           |           | 138,500,995 |

DIRECT COST LEVEL 3 SUMMARY

| Item | Sub Item | Description                                                  | Quantity | Unit   | Unit Rate     | Total         | Comment                                                      |
|------|----------|--------------------------------------------------------------|----------|--------|---------------|---------------|--------------------------------------------------------------|
| 01   | 01.00.00 | PRECONSTRUCTION ACTIVITIES                                   | 1        | LS     | \$ 3,698,373  | \$ 3,698,373  |                                                              |
|      | 01.01.00 | Demolition Work                                              | -        | LS     |               | Elsewhere     | Included in Demo Estimate                                    |
|      | 01.02.00 | Clearing and Grubbing                                        | 27       | ACRE   | \$ 10,250.26  | \$ 276,757    | Heavy vegetation removal                                     |
|      | 01.03.00 | Reservoir Clearing                                           | -        | ACRE   | \$ -          | \$ -          | Included in Demo Estimate                                    |
|      | 01.04.00 | Erosion and Sediment Control                                 | 27       | ACRE   | \$ 108,235.91 | \$ 2,922,370  |                                                              |
|      | 01.05.00 | Developing haul routes - Haul routes inside reservoir        | 22       | ACRES  | \$ 11,150.62  | \$ 245,314    |                                                              |
|      | 01.06.00 | Developing haul routes - Haul routes outside reservoir       | 15       | ACRES  | \$ 11,150.62  | \$ 167,259    |                                                              |
|      | 01.07.00 | Developing Stockpile and Staging Areas                       | 5        | ACRES  | \$ 17,334.77  | \$ 86,674     |                                                              |
| 02   | 02.00.00 | COFFERDAM                                                    |          |        |               | \$ 5,981,191  |                                                              |
|      | 02.01.00 | Cofferdam Excavation                                         | 189,100  | BCY    | \$ 15.99      | \$ 3,024,381  |                                                              |
|      | 02.01.10 | Common Excavation and Haul - Top Loading - 1 Mile Haul       | 170,190  | BCY    | \$ 14.40      | \$ 2,450,425  |                                                              |
|      | 02.01.20 | Drill Foundation & Shoot                                     | 18,910   | BCY    | \$ 15.48      | \$ 292,759    |                                                              |
|      | 02.01.30 | Rock Excavation and Haul - Top Loading - 1 Mile Haul         | 18,910   | BCY    | \$ 14.87      | \$ 281,196    |                                                              |
|      | 02.02.00 | Cofferdam - Zone 6                                           | 48,600   | ECY    | \$ 12.01      | \$ 583,736    | Sourced from Diversions or Foundation                        |
|      | 02.02.10 | Load, Haul, and Compact Zone 6 - Top Loading - 1.0 Mile Haul | 48,600   | ECY    | \$ 12.01      | \$ 583,736    |                                                              |
|      | 02.03.00 | Cofferdam - Zone 9                                           | 94,100   | ECY    | \$ 13.42      | \$ 1,263,074  | Sourced from Diversions or Foundation                        |
|      | 02.03.10 | Load, Haul, and Compact Zone 9 - Scraper - 1.0 Mile Haul     | 94,100   | ECY    | \$ 13.42      | \$ 1,263,074  |                                                              |
|      | 02.04.00 | Cofferdam - Cutoff Wall                                      | 24,000   | SF     | \$ 40.00      | \$ 960,000    |                                                              |
|      | 02.04.10 | Cutoff Wall - Bentonite                                      | 24,000   | SF     | \$ 40.00      | \$ 960,000    |                                                              |
|      | 02.05.00 | Cofferdam - Dewatering Allowance                             | 1        | LS     | \$ 150,000.00 | \$ 150,000    |                                                              |
|      | 02.05.20 | Surface Dewatering                                           | 6        | Months | \$ 25,000.00  | \$ 150,000    |                                                              |
| 04   | 04.00.00 | FOUNDATION EXCAVATION                                        |          |        |               | \$ 6,790,031  |                                                              |
|      | 04.01.00 | Topsoil Salvage                                              | 58,000   | BCY    | \$ 6.11       | \$ 354,478    | Allowance by Estimating                                      |
|      | 04.02.00 | Drill and Shoot Foundation                                   | 41,700   | BCY    | \$ 14.86      | \$ 619,757    | 10% Allowance by Estimating                                  |
|      | 04.02.10 | Drill Foundation & Shoot                                     | 41,700   | BCY    | \$ 14.86      | \$ 619,757    | Drill, Shoot, Explosives, Monitoring                         |
|      | 04.02.20 | Load, Haul, Stockpile - Shot Rock                            | -        | BCY    | \$ -          | \$ -          | Included Below                                               |
|      | 04.03.00 | Dam Foundation Excavation                                    | 417,000  | BCY    | \$ 11.64      | \$ 4,855,796  |                                                              |
|      | 04.03.10 | Load, Haul, Stockpile - Top Loading                          | 417,000  | BCY    | \$ 11.64      | \$ 4,855,796  |                                                              |
|      | 04.03.20 | Load, Haul, Stockpile - Scraper                              | -        | BCY    | \$ -          | \$ -          | Not Anticipated                                              |
|      | 04.05.00 | Dewatering allowance                                         | 12       | Months | \$ 80,000.00  | \$ 960,000    | Allowance                                                    |
| 05   | 05.00.00 | FOUNDATION PREPARATION - BENEATH CORE                        |          |        |               | \$ 3,815,443  |                                                              |
|      | 05.01.00 | Initial Foundation Cleaning - Core                           | 9,500    | SY     | \$ 26.63      | \$ 252,991    |                                                              |
|      | 05.01.10 | Initial foundation core cleanup                              | 9,500    | SY     | \$ 26.63      | \$ 252,991    |                                                              |
|      | 05.02.00 | Final Foundation Cleaning - Core                             | 9,500    | SY     | \$ 35.10      | \$ 333,489    |                                                              |
|      | 05.02.10 | Final foundation core cleanup                                | 9,500    | SY     | \$ 35.10      | \$ 333,489    |                                                              |
|      | 05.03.00 | Dental Excavation                                            | 2,900    | CY     | \$ 26.60      | \$ 77,144     |                                                              |
|      | 05.03.10 | Dental excavations                                           | 2,900    | CY     | \$ 26.60      | \$ 77,144     |                                                              |
|      | 05.04.00 | Dental Concrete                                              | 2,900    | CY     | \$ 529.67     | \$ 1,536,053  |                                                              |
|      | 05.05.00 | Backfill Concrete                                            | 2,150    | CY     | \$ 408.03     | \$ 877,272    |                                                              |
|      | 05.06.00 | Shaping Excavations                                          | 200      | CY     | \$ 48.22      | \$ 9,643      |                                                              |
|      | 05.07.00 | Slush Grout                                                  | 2,850    | Sacks  | \$ 255.74     | \$ 728,851    |                                                              |
| 06   | 06.00.00 | GROUTING                                                     |          |        |               | \$ 23,732,860 |                                                              |
|      | 06.01.00 | Grout Cap                                                    | 2,950    | CY     | \$ 1,729.72   | \$ 5,102,669  |                                                              |
|      | 06.02.00 | Grout Cap Anchors                                            | 2,040    | LF     | \$ 180.29     | \$ 367,802    | New Item - 5x5 pattern - 15' Anchors                         |
|      | 06.04.00 | Curtain Grouting - Includes Stitch and Fans                  | 79,700   | LF     | \$ 224.21     | \$ 17,869,615 | Includes Primary, Secondary, Tertiary, HOH, Stitch, and Fans |
|      | 06.04.10 | Drill setup for all holes                                    | 611      | ea.    | \$ 1,300.00   | \$ 794,300    |                                                              |
|      | 06.04.20 | Drill curtain grout holes                                    | 79,700   | lft    | \$ 110.00     | \$ 8,767,000  |                                                              |
|      | 06.04.30 | Redrill grout holes                                          | 7,970    | lft    | \$ 110.00     | \$ 876,700    | Assume 10% to be redrilled                                   |
|      | 06.04.40 | Hookup to grout holes and grout nipples                      | 3,985    | ea.    | \$ 200.00     | \$ 797,000    | 1 x hookup every 20'                                         |
|      | 06.04.50 | Mix and inject portland cement grout                         | 30,389   | sack   | \$ 180.00     | \$ 5,469,975  |                                                              |
|      | 06.04.60 | Perform hydraulic conductivity tests                         | 611      | ea.    | \$ 1,280.00   | \$ 782,080    |                                                              |
|      | 06.04.70 | Verification Holes                                           | 1,594    | LF     | \$ 240.00     | \$ 382,560    |                                                              |
|      | 06.05.00 | Consolidation Grouting                                       | -        | LF     | \$ -          | \$ -          | Not Required                                                 |
|      | 06.06.00 | Type III Cement                                              | 1,428    | Tons   | \$ 275.00     | \$ 392,775    |                                                              |
| 07   | 07.00.00 | FOUNDATION PREPARATION - BENEATH SHELL                       |          |        |               | \$ 385,746    |                                                              |
|      | 07.01.00 | Foundation Cleaning - Shell                                  | 94,000   | SY     | \$ 4.10       | \$ 385,746    |                                                              |
|      | 07.01.10 | Dam shell cleanup                                            | 94,000   | SY     | \$ 4.10       | \$ 385,746    |                                                              |
| 08   | 08.00.00 | FOUNDATION DRAINAGE                                          |          |        |               | \$ 179,398    |                                                              |

DIRECT COST LEVEL 3 SUMMARY

| Item | Sub Item | Description                                                                       | Quantity  | Unit | Unit Rate    | Total         | Comment                                                                              |
|------|----------|-----------------------------------------------------------------------------------|-----------|------|--------------|---------------|--------------------------------------------------------------------------------------|
|      | 08.01.00 | Furnish and Install Foundation Drain Pipe                                         | 350       | LF   | \$ 277.94    | \$ 97,280     | 24" Pipe                                                                             |
|      | 08.02.00 | Furnish and Install Inspection Well                                               | 2         | EA   | \$ 20,529.49 | \$ 41,059     |                                                                                      |
|      | 08.03.00 | Furnish and Install Weir Vault                                                    | 2         | EA   | \$ 20,529.49 | \$ 41,059     |                                                                                      |
| 09   | 09.00.00 | ROCK BORROW AREA - DEVELOP, PROCESSING, AND RESTORATION                           |           |      |              | \$ 32,582,142 |                                                                                      |
|      | 09.01.00 | Strip/Overburden/Waste to Stockpile                                               | 589,900   | BCY  | \$ 8.98      | \$ 5,295,697  |                                                                                      |
|      | 09.01.10 | Strip Topsoil Stockpile                                                           | 106,000   | BCY  | \$ 9.34      | \$ 989,642    |                                                                                      |
|      | 09.01.20 | Remove Overburden                                                                 | 483,900   | BCY  | \$ 8.90      | \$ 4,306,055  |                                                                                      |
|      | 09.02.00 | Drill, Blast Borrow, Excavate to Crusher and Riprap Process                       | 1,922,299 | BCY  | \$ 6.82      | \$ 13,117,983 |                                                                                      |
|      | 09.02.10 | Drill and Blast                                                                   | 1,922,299 | BCY  | \$ 5.59      | \$ 10,750,937 |                                                                                      |
|      | 09.02.11 | Allowance for Waste                                                               | 288,345   | BCY  | \$ 5.59      | \$ 1,612,640  |                                                                                      |
|      | 09.02.20 | Excavate to Riprap and Crusher Plants                                             | 228,200   | ECY  | \$ 3.31      | \$ 754,406    |                                                                                      |
|      | 09.03.00 | Zone 4A, 4B, 7A Processing                                                        | 160,700   | ECY  | \$ 32.00     | \$ 5,142,400  | See Borrow Estimate                                                                  |
|      | 09.03.10 | Prep Site                                                                         |           |      |              |               |                                                                                      |
|      | 09.03.20 | Crusher Mob and Set Up                                                            |           |      |              |               |                                                                                      |
|      | 09.03.30 | Crush Primary                                                                     |           |      |              |               |                                                                                      |
|      | 09.03.40 | Crush Secondary                                                                   |           |      |              |               |                                                                                      |
|      | 09.03.50 | Screening                                                                         |           |      |              |               |                                                                                      |
|      | 09.03.60 | Crusher Demob                                                                     |           |      |              |               |                                                                                      |
|      | 09.04.00 | Riprap Processing                                                                 | 67,500    | ECY  | \$ 30.00     | \$ 2,025,000  | See Borrow Estimate                                                                  |
|      | 09.04.10 | Processing Riprap                                                                 | 67,500    | ECY  | \$ 30.00     | \$ 2,025,000  |                                                                                      |
|      | 09.05.00 | Removal of Excess Sand/Siltstone                                                  | 377,600   | BCY  | \$ 13.26     | \$ 5,006,773  | Excess Zone 6 Removal                                                                |
|      | 09.05.10 | Blasting operations                                                               | 377,600   | BCY  | \$ 5.31      | \$ 2,004,620  |                                                                                      |
|      | 09.05.20 | Excavate, Load, and haul to Stockpile 1 mile haul                                 | 377,600   | LCY  | \$ 7.95      | \$ 3,002,153  | Haul to stockpile / Build Borrow Pad                                                 |
|      | 09.06.00 | Replace Overburden from Stockpile                                                 | 106,000   | ECY  | \$ 6.71      | \$ 711,030    | Backfill Borrow area using material from stockpile, allow 100% of stripping material |
|      | 09.06.10 | Load and haul to site stockpile, 0.25 mile haul                                   | 106,000   | ECY  | \$ 6.71      | \$ 711,030    |                                                                                      |
|      | 09.07.00 | Topsoil Replacement                                                               | 58,000    | ECY  | \$ 9.96      | \$ 577,952    | Allowance by Estimating                                                              |
|      | 09.07.10 | Excavate, Load and haul excavated backfill material to fill location, 1 mile haul | 58,000    | ECY  | \$ 9.96      | \$ 577,952    |                                                                                      |
|      | 09.08.00 | Seeding and Mulching                                                              | 1,638,000 | SF   | \$ 0.43      | \$ 705,306    | Backfill Borrow area using material from stockpile                                   |
|      | 09.08.10 | Seeding and Mulching                                                              | 1,638,000 | SF   | \$ 0.43      | \$ 705,306    |                                                                                      |
| 10   | 10.00.00 | EMBANKMENT                                                                        |           |      |              | \$ 51,842,685 |                                                                                      |
|      | 10.01.00 | Furnish and Install Zone 1 - Core                                                 | 276,900   | ECY  | \$ 25.76     | \$ 7,132,420  |                                                                                      |
|      | 10.01.10 | Strip Borrow Areas and Haul to Waste - 0.25 Mile Haul                             | 98,400    | BCY  | \$ 4.55      | \$ 447,880    | Per MBD, Scrapers                                                                    |
|      | 10.01.20 | Load, Haul, and Stockpile - Top Loading - 0.25 Mile Haul                          | 325,800   | BCY  | \$ 9.69      | \$ 3,158,117  | Per MBD, Top Loading Equipment                                                       |
|      | 10.01.30 | Moisture Condition At Stockpile                                                   | 325,800   | ECY  | \$ 2.81      | \$ 915,904    | Disc, Blade, Water Truck                                                             |
|      | 10.01.40 | Load, Haul, and Compact Contact Zone - Scraper - 0.75 Mile Haul                   | 13,845    | ECY  | \$ 14.44     | \$ 199,983    | 1st Lift - 988 Rubber Tire                                                           |
|      | 10.01.50 | Load, Haul, and Compact Wide Zone - Scraper - 0.75 Mile Haul                      | 207,675   | ECY  | \$ 8.83      | \$ 1,833,365  | Load and Haul from Stockpile to Dam                                                  |
|      | 10.01.60 | Load, Haul, and Compact Narrow Zone - Scraper - 0.75 Mile Haul                    | 55,380    | ECY  | \$ 10.42     | \$ 577,170    |                                                                                      |
|      | 10.02.00 | Purchase, Haul and Place - Zone 2 - Filter                                        | 76,000    | ECY  | \$ 154.55    | \$ 11,745,778 | CY to Tons - 1.7, Waste & Overbuild 20%                                              |
|      | 10.02.10 | Purchase processed material from quarry -Filter                                   | 155,040   | Tons | \$ 40.14     | \$ 6,222,821  |                                                                                      |
|      | 10.02.20 | Haul material to stockpile, 65 mile haul                                          | 155,040   | Tons | \$ 21.30     | \$ 3,302,352  |                                                                                      |
|      | 10.02.30 | Drive Over Unloaders & Stockpile Support                                          | 76,000    | ECY  | \$ 5.31      | \$ 403,472    |                                                                                      |
|      | 10.02.40 | Load, Haul, and Compact Blanket - Top Loading - 1.0 Mile Haul                     | 24,800    | ECY  | \$ 16.41     | \$ 407,059    |                                                                                      |
|      | 10.02.50 | Load, Haul, and Compact Chimney - Top Loading - 1.0 Mile Haul                     | 51,200    | ECY  | \$ 27.54     | \$ 1,410,073  |                                                                                      |
|      | 10.03.00 | Purchase, Haul and Place - Zone 3 - Drain                                         | 57,900    | ECY  | \$ 146.93    | \$ 8,507,481  | CY to Tons - 1.7, Waste & Overbuild 20%                                              |
|      | 10.03.10 | Purchase processed material from quarry - Drain                                   | 118,116   | Tons | \$ 33.94     | \$ 4,009,005  |                                                                                      |
|      | 10.03.20 | Haul material from quarry to site stockpile/fill location, 75 mile haul           | 118,116   | Tons | \$ 24.30     | \$ 2,870,219  |                                                                                      |
|      | 10.03.30 | Drive Over Unloaders & Stockpile Support                                          | 57,900    | ECY  | \$ 5.31      | \$ 307,382    |                                                                                      |
|      | 10.03.40 | Load, Haul, and Compact Blanket - Top Loading - 1.0 Mile Haul                     | 24,600    | ECY  | \$ 16.41     | \$ 403,777    | Filter Rate                                                                          |
|      | 10.03.50 | Load, Haul, and Compact Chimney - Top Loading - 1.0 Mile Haul                     | 33,300    | ECY  | \$ 27.54     | \$ 917,099    | Filter Rate                                                                          |
|      | 10.04.00 | Produce, Haul and Place - Zone 4A - Fine Transition                               | 47,000    | ECY  | \$ 35.38     | \$ 1,662,653  | CY to Tons - 1.7, Waste & Overbuild 20%                                              |
|      | 10.04.10 | 4A- Fine Transition Material Produced On Site                                     | 95,880    | Tons | \$ -         | \$ -          | Included Above in 09                                                                 |
|      | 10.04.20 | Load, Haul, and Compact Blanket - Top Loading - 4.0 Mile Haul                     | -         | ECY  | \$ 21.80     | \$ -          | Zone B Rate                                                                          |
|      | 10.04.30 | Load, Haul, and Compact Chimney - Top Loading - 4.0 Mile Haul                     | 47,000    | ECY  | \$ 35.38     | \$ 1,662,653  | Zone B Rate                                                                          |
|      | 10.05.00 | Produce, Haul and Place - Zone 4B - Coarse Transition                             | 113,700   | ECY  | \$ 32.44     | \$ 3,688,278  | CY to Tons - 1.7, Waste & Overbuild 20%                                              |
|      | 10.05.10 | 4B- Coarse Transition Material Produced On Site                                   | 231,948   | Tons | \$ -         | \$ -          | Included Above in 09                                                                 |
|      | 10.05.20 | Load, Haul, and Compact Blanket - Top Loading - 4.0 Mile Haul                     | 24,600    | ECY  | \$ 21.80     | \$ 536,312    |                                                                                      |
|      | 10.05.30 | Load, Haul, and Compact Chimney - Top Loading - 4.0 Mile Haul                     | 89,100    | ECY  | \$ 35.38     | \$ 3,151,966  |                                                                                      |
|      | 10.07.00 | Furnish and Install Zone 5&6 Sand/Siltstone - Rockfill                            | 1,955,400 | ECY  | \$ 8.84      | \$ 17,286,812 |                                                                                      |
|      | 10.07.10 | Blasting operations                                                               | 1,955,400 | BCY  | \$ -         | \$ -          | Included Above in 09                                                                 |
|      | 10.07.20 | Load, Haul, and Compact - Top Loading - 1.0 Mile Haul                             | 1,955,400 | ECY  | \$ 8.84      | \$ 17,286,812 | No stockpiling required, direct haul                                                 |
|      | 10.10.00 | Produce, Haul and Place - Zone 7B - Riprap                                        | 67,500    | ECY  | \$ 26.95     | \$ 1,819,262  |                                                                                      |
|      | 10.10.10 | Blasting operations                                                               | -         | ECY  | \$ -         | \$ -          | Included Above in 09                                                                 |
|      | 10.10.20 | Excavate to Riprap Processing                                                     | -         | ECY  | \$ -         | \$ -          | Included Above in 09                                                                 |
|      | 10.10.30 | Process Riprap                                                                    | -         | ECY  | \$ -         | \$ -          | Included Above in 09                                                                 |
|      | 10.10.40 | Load, Haul, Place Riprap                                                          | 67,500    | ECY  | \$ 26.95     | \$ 1,819,262  | Not required                                                                         |
|      | 10.11.00 | Groin Protection at Saddles                                                       | -         | ECY  | \$ -         | \$ -          |                                                                                      |
|      | 10.11.10 | Blasting operations                                                               | -         | LCY  | \$ -         | \$ -          | Included Above in 09                                                                 |
|      | 10.11.20 | Excavate to Riprap Processing                                                     | -         | LCY  | \$ -         | \$ -          | Included Above in 09                                                                 |
|      | 10.11.30 | Process Riprap                                                                    | -         | LCY  | \$ -         | \$ -          | Included Above in 09                                                                 |
|      | 10.11.40 | Load, Haul, Place Riprap                                                          | -         | LCY  | \$ 26.95     | \$ -          | At Riprap Rate                                                                       |
| 11   | 11.00.00 | INSTRUMENTATION AND TELEMETRY                                                     |           |      |              | \$ 1,349,500  |                                                                                      |

DIRECT COST LEVEL 3 SUMMARY

| Item              | Sub Item | Description                                                                                                                                    | Quantity | Unit | Unit Rate       | Total          | Comment                                              |
|-------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|-----------------|----------------|------------------------------------------------------|
|                   | 11.01.00 | Instrumentation/Telemetry: Instrumentation/Telemetry (piezometers, settlement monitors (survey monuments), seismographs, and slope indicators) | 1        | LS   | \$ 1,349,500.00 | \$ 1,349,500   | Allowance                                            |
|                   | 11.01.01 | Vibrating Wire Piezometers                                                                                                                     | 14       | EA   | \$ 20,000.00    | \$ 280,000     | Allowance for redundant Installation                 |
|                   | 11.01.02 | Open Standpipe Piezometer                                                                                                                      | 4        | EA   | \$ 12,000.00    | \$ 48,000      |                                                      |
|                   | 11.01.03 | Vibrating Wire Weir Monitors                                                                                                                   | 1        | EA   | \$ 15,000.00    | \$ 15,000      |                                                      |
|                   | 11.01.04 | Survey Monuments                                                                                                                               | 12       | EA   | \$ 2,000.00     | \$ 24,000      |                                                      |
|                   | 11.01.05 | Inclinometers                                                                                                                                  | 1        | EA   | \$ 25,000.00    | \$ 25,000      |                                                      |
|                   | 11.01.06 | Accelerographs                                                                                                                                 | 3        | EA   | \$ 50,000.00    | \$ 150,000     |                                                      |
|                   | 11.01.07 | Shaped Array Accelerometer                                                                                                                     | 1        | EA   | \$ 15,000.00    | \$ 15,000      |                                                      |
|                   | 11.01.08 | Time Domain Reflectometer                                                                                                                      | 1        | EA   | \$ 15,000.00    | \$ 15,000      |                                                      |
|                   | 11.01.09 | Weather Station                                                                                                                                | 1        | EA   | \$ 25,000.00    | \$ 25,000      |                                                      |
|                   | 11.01.10 | Reservoir Level Sensor                                                                                                                         | 1        | EA   | \$ 15,000.00    | \$ 15,000      |                                                      |
|                   | 11.01.11 | Wireless Stations                                                                                                                              | 10       | EA   | \$ 15,000.00    | \$ 150,000     | 4 Devices per Station                                |
|                   | 11.01.12 | Central Monitoring Station                                                                                                                     | 1        | EA   | \$ 300,000.00   | \$ 300,000     |                                                      |
|                   | 11.01.13 | Wireless and Solar Transmission Station                                                                                                        | 1        | EA   | \$ 100,000.00   | \$ 100,000     | Wireless Signals will be sent to HC Control Building |
|                   | 11.01.14 | Conduit and Cable Devices                                                                                                                      | 7,500    | LF   | \$ 25.00        | \$ 187,500     |                                                      |
| 12                | 12.00.00 | SITE RESTORATION                                                                                                                               |          |      |                 | \$ 1,548,342   |                                                      |
|                   | 12.01.00 | Seeding                                                                                                                                        | 240,000  | SF   | \$ 0.43         | \$ 103,342     | Allowance                                            |
|                   | 12.02.00 | Fencing                                                                                                                                        | 600      | LF   | \$ 75.00        | \$ 45,000      | Allowance                                            |
|                   | 12.03.00 | Best Management Practices                                                                                                                      | 1        | LS   | \$ 800,000.00   | \$ 800,000     | Allowance                                            |
|                   | 12.04.00 | Rock Check Dams                                                                                                                                | 1        | LS   | \$ 300,000.00   | \$ 300,000     | Allowance                                            |
|                   | 12.05.00 | Drainage - Inlets, Culverts                                                                                                                    | 1        | LS   | \$ 300,000.00   | \$ 300,000     | Allowance                                            |
| 15                | 15.00.00 | ALLOWANCE FOR UNLISTED ITEMS                                                                                                                   |          |      |                 | \$ 6,595,285   |                                                      |
|                   | 15.01.00 | Allowance for Unlisted Items                                                                                                                   | 5.0%     | %    | \$ 131,905,709  | \$ 6,595,285   |                                                      |
| Total Direct Cost |          |                                                                                                                                                | 2.59     | MCY  | \$ 53.38        | \$ 138,500,995 |                                                      |

Sites Reservoir: Sites Diversion Outlet  
30% Cost Estimate  
Sites, CA

Cost Estimate  
AAECI Class 3  
February 28, 2025

**TOTAL ESTIMATE SUMMARY**

|                   |             |
|-------------------|-------------|
| Total Direct Cost | 138,059,203 |
|-------------------|-------------|

|                                                    |             |
|----------------------------------------------------|-------------|
| TOTAL DIRECT COST BEFORE CONTRACTOR INDIRECT COSTS | 138,059,203 |
|----------------------------------------------------|-------------|

|                              |       |            |
|------------------------------|-------|------------|
| Mobilization                 | 5.0%  | 6,902,960  |
| Field Overhead Costs (GC&GR) | 17.0% | 24,643,568 |
| Insurance                    | 2.0%  | 3,392,115  |
| Bonds                        | 0.6%  | 1,037,987  |

|                                 |            |
|---------------------------------|------------|
| Total Contractor Indirect Costs | 35,976,630 |
|---------------------------------|------------|

|                       |             |
|-----------------------|-------------|
| TOTAL CONTACTOR COSTS | 174,035,833 |
|-----------------------|-------------|

|                            |       |            |
|----------------------------|-------|------------|
| Home Office Overhead (G&A) | 6.5%  | 11,312,329 |
| GC Profit                  | 10.0% | 18,534,816 |

|                                      |            |
|--------------------------------------|------------|
| Total Contractor Overhead and Profit | 29,847,145 |
|--------------------------------------|------------|

|                                              |             |
|----------------------------------------------|-------------|
| TOTAL CONSTRUCTION COST BEFORE CONTINGENCIES | 203,882,978 |
|----------------------------------------------|-------------|

Contingencies

|                            |       |            |
|----------------------------|-------|------------|
| Design Contingencies       | 18.8% | 38,330,000 |
| Construction Contingencies | 15.0% | 36,331,947 |

|                             |            |
|-----------------------------|------------|
| Total Contingency Allowance | 74,661,947 |
|-----------------------------|------------|

|                              |             |
|------------------------------|-------------|
| TOTAL COST BEFORE ESCALATION | 278,544,925 |
|------------------------------|-------------|

|                                         |           |    |   |
|-----------------------------------------|-----------|----|---|
| Escalation to Mid-point of Construction | By Others | 0% | - |
|-----------------------------------------|-----------|----|---|

|                                 |             |
|---------------------------------|-------------|
| RECOMMENDED CONSTRUCTION BUDGET | 278,544,925 |
|---------------------------------|-------------|

|                    |           |      |   |
|--------------------|-----------|------|---|
| Non-Contract Costs | By Others | 0.0% | - |
|--------------------|-----------|------|---|

|                |             |
|----------------|-------------|
| TOTAL ESTIMATE | 278,544,925 |
|----------------|-------------|

DIRECT COST LEVEL 2 SUMMARY

| Item | Sub Item  | Description                                                          | UoM    | 30% Cost Estimate |             |             |
|------|-----------|----------------------------------------------------------------------|--------|-------------------|-------------|-------------|
|      |           |                                                                      |        | Qty               | Unit Rate   | Total       |
| 01   | 01.00.00  | PRECONSTRUCTION ACTIVITIES                                           |        |                   |             | 634,480     |
|      | 01.02.00  | Clearing and Grubbing                                                | ACRE   | 5                 | 10,241      | 51,205      |
|      | 01.04.00  | Erosion and Sediment Control                                         | ACRE   | 5                 | 108,000     | 540,000     |
|      | 01.07.00  | Developing Stockpile and Staging Areas                               | ACRES  | 3                 | 17,310      | 43,275      |
| 02   | 02.00.00  | UPSTREAM APPROACH AND PORTAL                                         |        |                   |             | 5,282,682   |
|      | 02.01.00  | Excavation - Approach Channel                                        | BCY    | -                 |             | -           |
|      | 02.02.00  | Rock Bolts - Approach Channel                                        | EA     | -                 |             | -           |
|      | 02.03.00  | Excavation - Upstream Portal Including the Sloping Intake Excavation | BCY    | 32,311            | 28          | 906,601     |
|      | 02.04.00  | Rock Bolts                                                           | EA     | 14                | 4,321       | 61,732      |
|      | 02.05.00  | Soil Nails - Passive anchors                                         | EA     | 361               | 8,933       | 3,224,866   |
|      | 02.06.00  | Shotcrete Portal Face                                                | CY     | 707               | 862         | 609,524     |
|      | 02.07.00  | Portal Cleaning and Mapping                                          | SY     | 2,121             | 75          | 159,959     |
|      | 02.08.00  | Dewatering allowance                                                 | Months | 8                 | 40,000      | 320,000     |
| 03   | 03.00.00  | INTAKE STRUCTURE - CONCRETE                                          |        |                   |             | 5,273,136   |
|      | 03.01.00  | Slab                                                                 | CY     | 260               | 999         | 259,251     |
|      | 03.02.00  | Mass Concrete (intake structure)                                     | CY     | 3,980             | 1,112       | 4,426,986   |
|      | 03.03.00  | Piles                                                                | LF     | 1,250             | 470         | 586,900     |
| 04   | 04.00.00  | INTAKE STRUCTURE - MECHANICAL                                        |        |                   |             | 12,105,220  |
|      | 04.01.10  | 10' Knife Gate Valves                                                | EA     | 2                 | 2,606,500   | 5,213,000   |
|      | 04.02.00  | Trash Rack                                                           | TON    | 47                | 19,200      | 902,400     |
|      | 04.03.00  | Piping - Materials                                                   | LS     | 1                 | 4,032,306   | 4,032,306   |
|      | 04.04.00  | Piping - Installation                                                | LS     | 1                 | 1,054,591   | 1,054,591   |
|      | 04.05.00  | Allowance for Supports for Airline                                   | EA     | 30                | 30,097      | 902,923     |
| 05   | 05.00.00  | OUTLET STRUCTURE - CONCRETE                                          |        |                   |             | 6,404,539   |
|      | 05.01.00  | Slab                                                                 | CY     | 1,618             | 885         | 1,431,469   |
|      | 05.02.00  | Wall                                                                 | CY     | 1,327             | 1,718       | 2,278,850   |
|      | 05.03.00  | Roof                                                                 | CY     | 555               | 1,705       | 945,526     |
|      | 05.04.00  | Mass Concrete - Thrust Block                                         | CY     | 2,494             | 701         | 1,748,694   |
|      | 05.05.00  | Piles                                                                | LF     | -                 |             | -           |
| 06   | 06.00.00  | DOWNSTREAM PORTAL                                                    |        |                   |             | 23,696,982  |
|      | 06.01.00  | Excavation - Structural Excavation                                   | BCY    | 165,000           | 32          | 5,346,267   |
|      | 06.02.00  | Rock Bolts                                                           | EA     | 46                | 3,454       | 157,900     |
|      | 06.03.00  | Soil Nails - Passive anchors                                         | EA     | 1,542             | 9,843       | 15,177,606  |
|      | 06.04.00  | Shotcrete Portal Face                                                | CY     | 2,950             | 859         | 2,535,209   |
|      | 06.06.00  | Dewatering allowance                                                 | Months | 12                | 40,000      | 480,000     |
| 07   | 07.00.00  | OUTLET STRUCTURE - MECHANICAL                                        |        |                   |             | 13,697,396  |
|      | 07.01.00  | Valves and Inlines                                                   | LS     | 1                 | 7,649,500   | 7,649,500   |
|      | 07.02.00  | Piping - Materials                                                   | LS     | 1                 | 4,365,046   | 4,365,046   |
|      | 07.03.00  | Piping - Installation                                                | LS     | 1                 | 749,100     | 749,100     |
|      | 07.04.00  | Outlet Structure - Build Out                                         | LS     | 1                 | 933,750     | 933,750     |
| 08   | 08.00.00  | CONTROL HOUSE                                                        |        |                   |             | 1,860,000   |
|      | 08.01.00  | Control House                                                        | LS     | 1                 | 1,860,000   | 1,860,000   |
|      | 08.01.10  | Building - Allowance                                                 | SF     | 450               | 1,000       | 450,000     |
|      | 08.01.20  | HPU Unit                                                             | LS     | 1                 | 560,000     | 560,000     |
|      | 08.01.30  | Controls - Allowance                                                 | LS     | 1                 | 350,000     | 350,000     |
|      | 08.01.40  | Electrical to Structure - Allowance                                  | LS     | 1                 | 500,000     | 500,000     |
| 09   | 09.00.00  | I-O Tunnel                                                           |        |                   |             | 62,230,819  |
|      | 09.01.00  | I/O Tunnel                                                           | LF     | 1,318             | 47,216      | 62,230,819  |
|      | 09.01.10A | Mobilization                                                         | LS     | 1                 | 1,838,041   | 1,838,041   |
|      | 09.01.10B | Pre-Excavation Drilling and Grouting                                 | LF     | 15,200            | 500         | 7,600,000   |
|      | 09.01.20  | Excavation                                                           | BCY    | 18,313            | 800         | 14,650,568  |
|      | 09.01.30  | Excavation Support - Steel Sets                                      | Ea     | 132               | 3,125       | 412,500     |
|      | 09.01.40  | Excavation Support - Rock Anchors                                    | LF     | 10,175            | 150         | 1,526,250   |
|      | 09.01.50  | Floor - Mud Mat                                                      | CY     | 468               | 500         | 233,905     |
|      | 09.01.60  | Shotcrete                                                            | CY     | 1,681             | 350         | 588,347     |
|      | 09.01.70  | Steel Pipe                                                           | TONS   | 1,575             | 13,449      | 21,178,244  |
|      | 09.01.71A | Steel Pipe - Weld Seams in Field                                     | LF     | 2,966             | 620         | 1,838,610   |
|      | 09.01.71B | Steel Pipe - Coat and Line Welds                                     | SF     | 14,828            | 10          | 148,275     |
|      | 09.01.80  | LDCC Fill                                                            | CY     | 7,333             | 500         | 3,666,450   |
|      | 09.01.90  | Concrete Fill                                                        | CY     | 537               | 1,000       | 537,430     |
|      | 09.01.11  | Rebar for Concrete Encasement                                        | TONS   | 28                | 4,800       | 134,880     |
|      | 09.01.12  | Allowance for Unlisted Items                                         | %      | 15                | 525,155     | 7,877,319   |
| 10   | 10.00.00  | SITE RESTORATION                                                     |        |                   |             | 299,700     |
|      | 10.01.00  | Seeding                                                              | SF     | 40,000            | 0           | 17,200      |
|      | 10.02.00  | Fencing                                                              | LS     | 300               | 75          | 22,500      |
|      | 10.03.00  | Best Management Practices                                            | LS     | 1                 | 140,000     | 140,000     |
|      | 10.04.00  | Rock Check Dams                                                      | LS     | 1                 | 60,000      | 60,000      |
|      | 10.05.00  | Drainage - Inlets, Culverts                                          | LS     | 1                 | 60,000      | 60,000      |
| 11   | 11.00.00  | ALLOWANCE FOR UNLISTED ITEMS                                         |        |                   |             | 6,574,248   |
|      | 11.01.00  | Allowance for Unlisted Items                                         | %      | 0                 | 131,484,955 | 6,574,248   |
|      |           | Total Direct Cost                                                    | LS     |                   |             | 138,059,203 |

DIRECT COST LEVEL 3 SUMMARY

| Item | Sub Item | Description                                            | Quantity | Unit   | Unit Rate    | Total         | Comment                                      |
|------|----------|--------------------------------------------------------|----------|--------|--------------|---------------|----------------------------------------------|
| 01   | 01.00.00 | PRECONSTRUCTION ACTIVITIES                             | 1        | LS     | \$ 634,480   | \$ 634,480    |                                              |
|      | 01.02.00 | Clearing and Grubbing                                  | 5        | ACRE   | \$ 10,241    | \$ 51,205     | Heavy vegetation removal                     |
|      | 01.04.00 | Erosion and Sediment Control                           | 5        | ACRE   | \$ 108,000   | \$ 540,000    | Allowed \$0.25/SF to 30% of the total area   |
|      | 01.07.00 | Developing Stockpile and Staging Areas                 | 2.5      | ACRES  | \$ 17,310    | \$ 43,275     | Clear, grade, gravel fill layer and compact  |
| 02   | 02.00.00 | UPSTREAM APPROACH AND PORTAL                           |          |        |              | \$ 5,282,682  |                                              |
|      | 02.03.00 | Excavation - Upstream Portal                           | 32,311   | BCY    | \$ 28        | \$ 906,601    | 50% Common, 50% Drill and Shoot              |
|      | 02.03.10 | Common Excavation and Haul - Top Loading - 1 Mile Haul | 16,156   | BCY    | \$ 22.43     | \$ 362,409    |                                              |
|      | 02.03.20 | Drill Foundation & Shoot Rock Excavation               | 16,156   | BCY    | \$ 16.28     | \$ 263,071    |                                              |
|      | 02.03.30 | Rock Excavation and Haul - Top Loading - 1 Mile Haul   | 16,156   | BCY    | \$ 17.40     | \$ 281,121    |                                              |
|      | 02.04.00 | Rock Bolts                                             | 14       | EA     | \$ 4,321     | \$ 61,732     |                                              |
|      | 02.04.10 | Installation of Rock Bolts                             | 500      | LF     | \$ 123.46    | \$ 61,732     | 35' Long, 10' Spacing,                       |
|      | 02.05.00 | Soil Nails - Passive anchors                           | 361      | EA     | \$ 8,933     | \$ 3,224,866  |                                              |
|      | 02.05.10 | Installation of Soil Nails                             | 36,100   | LF     | \$ 89.33     | \$ 3,224,866  | Avg 100' Long, 150 KSI #18, 6" Hole          |
|      | 02.06.00 | Shotcrete Portal Face                                  | 707      | CY     | \$ 862       | \$ 609,524    |                                              |
|      | 02.06.10 | Shotcrete Portal Face                                  | 707      | CY     | \$ 862.13    | \$ 609,524    | 12" Thick, #35/CY Steel Fiber                |
|      | 02.07.00 | Portal Mapping and Mudmat                              | 2,121    | SY     | \$ 75        | \$ 159,959    |                                              |
|      | 02.07.10 | Portal Mapping and Mudmat                              | 2,121    | SY     | \$ 75.42     | \$ 159,959    |                                              |
|      | 02.08.00 | Dewatering allowance                                   | 8        | Months | \$ 40,000    | \$ 320,000    | Allowance                                    |
| 03   | 03.00.00 | INTAKE STRUCTURE - CONCRETE                            |          |        |              | \$ 5,273,136  |                                              |
|      | 03.01.00 | Slab                                                   | 260      | CY     | \$ 999       | \$ 259,251    |                                              |
|      | 03.01.10 | Concrete - Slab                                        | 260      | CY     | \$ 563.00    | \$ 146,099    |                                              |
|      | 03.01.20 | Rebar                                                  | 17       | TON    | \$ 2,900.90  | \$ 49,315     | 131 Lbs/CY                                   |
|      | 03.01.30 | Formwork                                               | 2,076    | SF     | \$ 30.75     | \$ 63,837     | 8 SF/CY                                      |
|      | 03.02.00 | Mass Concrete (intake structure)                       | 3,980    | CY     | \$ 1,112     | \$ 4,426,986  | Between sloping intake and tunnel - 4 HRS/CY |
|      | 03.02.10 | Concrete - Mass                                        | 3,980    | CY     | \$ 818.00    | \$ 3,255,804  |                                              |
|      | 03.02.20 | Rebar                                                  | 91       | TON    | \$ 2,900.90  | \$ 263,982    | 46 Lbs/CY                                    |
|      | 03.02.30 | Formwork                                               | 10,800   | SF     | \$ 84.00     | \$ 907,200    | 3 SF/CY                                      |
|      | 03.03.00 | Piles                                                  | 1,250    | LF     | \$ 470       | \$ 586,900    |                                              |
|      | 03.03.10 | Drill - 24"                                            | 1,250    | LF     | \$ 300.00    | \$ 375,000    |                                              |
|      | 03.03.20 | Rebar                                                  | 29       | TON    | \$ 4,800.00  | \$ 139,200    | 399 Lbs/CY                                   |
|      | 03.03.30 | Pour                                                   | 145      | CY     | \$ 500.00    | \$ 72,700     |                                              |
| 04   | 04.00.00 | INTAKE STRUCTURE - MECHANICAL                          |          |        |              | \$ 12,105,220 |                                              |
|      | 04.01.10 | 10' Knife Gate Valves                                  | 2        | EA     | \$ 2,606,500 | \$ 5,213,000  | Quote - \$2.535k Each                        |
|      | 04.02.00 | Trash Rack                                             | 47       | TON    | \$ 19,200    | \$ 902,400    | Epoxy Coated                                 |
|      | 04.03.00 | Piping - Materials                                     | 1        | LS     | \$ 4,032,306 | \$ 4,032,306  |                                              |
|      | 04.03.10 | Flare Bell Mouth Inlet Piping                          | 26       | TON    | \$ 20,210    | \$ 532,529    |                                              |
|      | 04.03.20 | Bifurcation Piping                                     | 154      | TON    | \$ 20,210    | \$ 3,110,293  |                                              |
|      | 04.03.30 | Air Vent Configured Piping                             | 5        | TON    | \$ 20,210    | \$ 104,485    |                                              |
|      | 04.03.40 | 48-inch Air Vent Piping to Grade                       | 450      | LF     | \$ 633       | \$ 285,000    | 57 Tons                                      |
|      | 04.04.00 | Piping - Installation                                  | 1        | LS     | \$ 1,054,591 | \$ 1,054,591  |                                              |
|      | 04.04.10 | Flare Bell Mouth Inlet Piping - Erect                  | 100      | LF     | \$ 2,800     | \$ 280,000    |                                              |
|      | 04.04.11 | Flare Bell Mouth Inlet Piping - Weldout                | 80       | LF     | \$ 620       | \$ 49,600     | 2 Welds                                      |
|      | 04.04.20 | Bifurcation Piping - Erect                             | 100      | LF     | \$ 1,550     | \$ 155,000    |                                              |
|      | 04.04.21 | Bifurcation Piping - Weldout                           | 90       | LF     | \$ 620       | \$ 55,800     | 3 Welds                                      |
|      | 04.04.30 | Air Vent Configured Piping - Erect                     | 50       | LF     | \$ 1,400     | \$ 70,000     |                                              |
|      | 04.04.31 | Air Vent Configured Piping - Weldout                   | 12       | LF     | \$ 310       | \$ 3,720      | 2 Welds                                      |
|      | 04.04.40 | 48-inch Air Vent Piping to Grade - Erect               | 450      | LF     | \$ 930       | \$ 418,500    |                                              |
|      | 04.04.41 | 48-inch Air Vent Piping to Grade - Weldout             | 71       | LF     | \$ 310       | \$ 21,971     | Weld every 40'                               |
|      | 04.05.00 | Allowance for Supports for Airline                     | 30       | EA     | \$ 30,097    | \$ 902,923    |                                              |
|      | 04.05.10 | Allowance for Excavation / Backfill                    | 963      | CY     | \$ 66        | \$ 63,339     |                                              |
|      | 04.05.20 | Allowance for Concrete                                 | 333      | CY     | \$ 2,062     | \$ 687,333    |                                              |
|      | 04.05.30 | Allowance for Supports                                 | 15       | TON    | \$ 10,150    | \$ 152,250    |                                              |
| 05   | 05.00.00 | OUTLET STRUCTURE - CONCRETE                            |          |        |              | \$ 6,404,539  |                                              |
|      | 05.01.00 | Slab                                                   | 1,618    | CY     | \$ 885       | \$ 1,431,469  |                                              |
|      | 05.01.10 | Concrete - Slab                                        | 1,618    | CY     | \$ 733.00    | \$ 1,185,994  |                                              |
|      | 05.01.20 | Rebar                                                  | 58       | TON    | \$ 2,900.90  | \$ 167,063    | 71 Lbs/CY                                    |
|      | 05.01.30 | Formwork                                               | 2,550    | SF     | \$ 30.75     | \$ 78,413     | 2 SF/CY                                      |
|      | 05.02.00 | Wall                                                   | 1,327    | CY     | \$ 1,718     | \$ 2,278,850  |                                              |
|      | 05.02.10 | Concrete - Wall                                        | 1,327    | CY     | \$ 563.00    | \$ 746,847    |                                              |
|      | 05.02.20 | Rebar                                                  | 100      | TON    | \$ 2,900.90  | \$ 290,728    | 151 Lbs/CY                                   |
|      | 05.02.30 | Formwork                                               | 28,700   | SF     | \$ 43.25     | \$ 1,241,275  | 22 SF/CY                                     |
|      | 05.03.00 | Roof                                                   | 555      | CY     | \$ 1,705     | \$ 945,526    |                                              |
|      | 05.03.10 | Concrete - Roof                                        | 555      | CY     | \$ 563.00    | \$ 312,224    |                                              |
|      | 05.03.20 | Rebar                                                  | 49       | TON    | \$ 2,900.90  | \$ 142,869    | 178 Lbs/CY                                   |
|      | 05.03.30 | Formwork                                               | 9,210    | SF     | \$ 53.25     | \$ 490,433    | 17 SF/CY                                     |
|      | 05.04.00 | Mass Concrete - Thrust Block                           | 2,494    | CY     | \$ 701       | \$ 1,748,694  |                                              |
|      | 05.04.10 | Concrete - Mass                                        | 2,494    | CY     | \$ 563.00    | \$ 1,404,122  |                                              |
|      | 05.04.20 | Rebar                                                  | 39       | TON    | \$ 2,900.90  | \$ 113,135    | 31 Lbs/CY                                    |

DIRECT COST LEVEL 3 SUMMARY

| Item | Sub Item  | Description                                            | Quantity | Unit   | Unit Rate       | Total         | Comment                                  |
|------|-----------|--------------------------------------------------------|----------|--------|-----------------|---------------|------------------------------------------|
|      | 05.04.30  | Rebar - Pipe Reinforcement                             | 13       | TON    | \$ 2,900.90     | \$ 37,712     | 10 Lbs/CY                                |
|      | 05.04.40  | Formwork                                               | 6,300    | SF     | \$ 30.75        | \$ 193,725    | 3 SF/CY                                  |
|      | 05.05.00  | Piles                                                  | -        | LF     | \$ -            | \$ -          | 5% Common, 95% Drill and Shoot           |
|      | 05.05.10  | Drill - 24"                                            | -        | LF     | \$ -            | \$ -          |                                          |
|      | 05.05.20  | Rebar                                                  | -        | TON    | \$ -            | \$ -          |                                          |
|      | 05.05.30  | Pour                                                   | -        | CY     | \$ -            | \$ -          |                                          |
| 06   | 06.00.00  | DOWNSTREAM PORTAL                                      |          |        |                 | \$ 23,696,982 |                                          |
|      | 06.01.00  | Excavation - Structural Excavation                     | 165,000  | BCY    | \$ 32           | \$ 5,346,267  | 5% Common, 95% Drill and Shoot           |
|      | 06.01.10  | Common Excavation and Haul - Top Loading - 1 Mile Haul | 8,250    | BCY    | \$ 23.26        | \$ 191,863    |                                          |
|      | 06.01.20  | Drill Foundation & Shoot Rock Excavation               | 156,750  | BCY    | \$ 15.72        | \$ 2,463,672  |                                          |
|      | 06.01.30  | Rock Excavation and Haul - Top Loading - 1 Mile Haul   | 156,750  | BCY    | \$ 17.17        | \$ 2,690,731  |                                          |
|      | 06.02.00  | Rock Bolts                                             | 46       | EA     | \$ 3,454        | \$ 157,900    |                                          |
|      | 06.02.10  | Installation of Rock Bolts                             | 1,600    | LF     | \$ 98.69        | \$ 157,900    | 35' Long, 10' Spacing, #11               |
|      | 06.03.00  | Soil Nails - Passive anchors                           | 1,542    | EA     | \$ 9,843        | \$ 15,177,606 |                                          |
|      | 06.03.10  | Installation of Soil Nails                             | 154,200  | LF     | \$ 98.43        | \$ 15,177,606 | Avg 100' Long, 150 KSI #18, 6" Hole      |
|      | 06.04.00  | Shotcrete Portal Face                                  | 2,950    | CY     | \$ 859          | \$ 2,535,209  |                                          |
|      | 06.04.10  | Shotcrete Portal Face                                  | 2,950    | CY     | \$ 859.39       | \$ 2,535,209  | 12" Thick, #35/CY Steel Fiber            |
|      | 06.06.00  | Dewatering allowance                                   | 12       | Months | \$ 40,000       | \$ 480,000    | Allowance                                |
| 07   | 07.00.00  | OUTLET STRUCTURE - MECHANICAL                          |          |        |                 | \$ 13,697,396 |                                          |
|      | 07.01.00  | Valves and Inlines                                     | 1        | LS     | \$ 7,649,500    | \$ 7,649,500  |                                          |
|      | 07.01.10  | 9.5" Butterfly Valve                                   | 2        | EA     | \$ 1,353,500.00 | \$ 2,707,000  |                                          |
|      | 07.01.20  | 9.5" Fixed Cone Valve                                  | 2        | EA     | \$ 1,591,000.00 | \$ 3,182,000  |                                          |
|      | 07.01.30  | 2.5" Knife Gate Valve                                  | 2        | EA     | \$ 133,000.00   | \$ 266,000    |                                          |
|      | 07.01.40  | 2.5" Sleeve Valve (model B12)                          | 2        | EA     | \$ 464,500.00   | \$ 929,000    |                                          |
|      | 07.01.50  | 10-inch Mag Meter                                      | 1        | EA     | \$ 93,000.00    | \$ 93,000     |                                          |
|      | 07.01.60  | 2" Butterfly Valve                                     | 1        | EA     | \$ 139,500.00   | \$ 139,500    |                                          |
|      | 07.01.70  | 10-inch Fixed Cone Valve                               | 1        | EA     | \$ 174,000.00   | \$ 174,000    |                                          |
|      | 07.01.80  | Air Release Valves                                     | 3        | EA     | \$ 53,000.00    | \$ 159,000    |                                          |
|      | 07.02.00  | Piping - Materials                                     | 1        | LS     | \$ 4,365,046    | \$ 4,365,046  |                                          |
|      | 07.02.10  | Bifurcation Piping                                     | 170      | TON    | \$ 25,423       | \$ 4,321,828  |                                          |
|      | 07.02.20  | Smaller Outlet Piping                                  | 2        | TON    | \$ 25,423       | \$ 43,218     |                                          |
|      | 07.03.00  | Piping - Installation                                  | 1        | LS     | \$ 749,100      | \$ 749,100    |                                          |
|      | 07.03.10  | Bifurcation Piping - Erect                             | 100      | LF     | \$ 5,600        | \$ 560,000    |                                          |
|      | 07.03.20  | Bifurcation Piping - Weldout                           | 80       | LF     | \$ 1,240        | \$ 99,200     |                                          |
|      | 07.03.30  | Smaller Outlet Piping - Erect                          | 40       | LF     | \$ 1,550        | \$ 62,000     |                                          |
|      | 07.03.40  | Smaller Outlet Piping - Weldout                        | 90       | LF     | \$ 310          | \$ 27,900     |                                          |
|      | 07.04.00  | Outlet Structure - Build Out                           | 1        | LS     | \$ 933,750      | \$ 933,750    |                                          |
|      | 07.04.10  | Allowance for Platform                                 | 350      | SF     | \$ 488          | \$ 170,625    |                                          |
|      | 07.04.20  | Allowance for Stairs                                   | 25       | LF     | \$ 825          | \$ 20,625     |                                          |
|      | 07.04.30  | Allowance for Hatches                                  | 4        | EA     | \$ 17,500       | \$ 70,000     |                                          |
|      | 07.04.40  | Allowance for Doors                                    | 2        | EA     | \$ 8,000        | \$ 16,000     |                                          |
|      | 07.04.50  | Allowance for Sump                                     | 1        | LS     | \$ 6,500        | \$ 6,500      |                                          |
|      | 07.04.60  | Allowance for Ventilation                              | 1        | LS     | \$ 50,000       | \$ 50,000     |                                          |
|      | 07.04.70  | Allowance for Electrical                               | 1        | LS     | \$ 350,000      | \$ 350,000    |                                          |
|      | 07.04.80  | Allowance for Controls                                 | 1        | LS     | \$ 250,000      | \$ 250,000    |                                          |
| 08   | 08.00.00  | CONTROL HOUSE                                          |          |        |                 | \$ 1,860,000  |                                          |
|      | 08.01.00  | Control House                                          | 1        | LS     | \$ 1,860,000    | \$ 1,860,000  |                                          |
|      | 08.01.10  | Building - Allowance                                   | 450      | SF     | \$ 1,000        | \$ 450,000    |                                          |
|      | 08.01.20  | HPU Unit                                               | 1        | LS     | \$ 560,000      | \$ 560,000    | Quote - \$560k Each                      |
|      | 08.01.30  | Controls - Allowance                                   | 1        | LS     | \$ 350,000      | \$ 350,000    |                                          |
|      | 08.01.40  | Electrical to Structure - Allowance                    | 1        | LS     | \$ 500,000      | \$ 500,000    | OH Line By Others                        |
| 09   | 09.00.00  | Sites Diversion                                        | 1,318    | LF     | \$ 47,216       | \$ 62,230,819 |                                          |
|      |           | Key Tunnel Dimensions                                  |          |        |                 |               | For Reference Only                       |
|      |           | Tunnel Length                                          | 1,318    | Feet   |                 |               |                                          |
|      |           | Tunnel Inside Diameter                                 | 14.5     | Feet   |                 |               |                                          |
|      |           | Excavation Inside Diameter                             | 20.5     | Feet   |                 |               |                                          |
|      |           | Pre-Excavation Drilling Holes                          | 8,800    | LF     |                 |               |                                          |
|      |           | Excavation Support Spacing                             | 5        | Feet   |                 |               |                                          |
|      |           | Shotcrete Thickness                                    | 0.67     | Feet   |                 |               |                                          |
|      |           | Pipe Wall Thickness                                    | 1.25     | Inch   |                 |               |                                          |
|      |           | Backfill % Concrete - Balance LOCC                     | 7        | %      |                 |               |                                          |
|      | 09.01.00  | Sites Diversion Tunnel                                 | 1,318    | Feet   | \$ 47,216       | \$ 62,230,819 |                                          |
|      | 09.01.10A | Mobilization                                           | 1        | LS     | \$ 1,838,041    | \$ 1,838,041  | 1 Sack per Foot and 1.375 Gallons Per LF |
|      | 09.01.10B | Pre-Excavation Drilling and Grouting                   | 15,200   | LF     | \$ 500          | \$ 7,600,000  | 1 Sack per Foot and 1.375 Gallons Per LF |
|      | 09.01.20  | Excavation                                             | 18,313   | BCY    | \$ 800          | \$ 14,650,568 |                                          |
|      | 09.01.30  | Excavation Support - Steel Sets                        | 132      | Ea     | \$ 3,125        | \$ 412,500    | 50% steel sets - W6x25 per the drawing   |
|      | 09.01.40  | Excavation Support - Rock Anchors                      | 10,175   | LF     | \$ 150          | \$ 1,526,250  | 50% rock anchors - 11" No. 8             |
|      | 09.01.50  | Floor - Mud Mat                                        | 468      | CY     | \$ 500          | \$ 233,905    |                                          |
|      | 09.01.60  | Shotcrete                                              | 1,681    | CY     | \$ 350          | \$ 588,347    | Steel fiber reinforced shotcrete         |
|      | 09.01.70  | Steel Pipe                                             | 1,575    | TONS   | \$ 13,449       | \$ 21,178,244 |                                          |
|      | 09.01.71A | Steel Pipe - Weld And install                          | 2,966    | LF     | \$ 620          | \$ 1,838,610  |                                          |
|      | 09.01.71B | Steel Pipe - Coat and Line Welds                       | 14,828   | SF     | \$ 10           | \$ 148,275    |                                          |
|      | 09.01.80  | LOCC Fill                                              | 7,333    | CY     | \$ 500          | \$ 3,666,450  |                                          |
|      | 09.01.90  | Concrete Fill                                          | 537      | CY     | \$ 1,000        | \$ 537,430    |                                          |
|      | 09.01.11  | Rebar for Concrete Encasement                          | 28       | TONS   | \$ 4,800        | \$ 134,880    |                                          |
|      | 09.01.12  | Allowance for Unlisted Items                           | 15       | %      | \$ 52,515,459   | \$ 7,877,319  |                                          |
| 10   | 10.00.00  | SITE RESTORATION                                       |          |        |                 | \$ 299,700    |                                          |

DIRECT COST LEVEL 3 SUMMARY

| Item              | Sub Item | Description                  | Quantity | Unit | Unit Rate      | Total          | Comment |
|-------------------|----------|------------------------------|----------|------|----------------|----------------|---------|
|                   | 10.01.00 | Seeding                      | 40,000   | SF   | \$ 0           | \$ 17,200      |         |
|                   | 10.02.00 | Fencing                      | 300      | LS   | \$ 75          | \$ 22,500      |         |
|                   | 10.03.00 | Best Management Practices    | 1        | LS   | \$ 140,000     | \$ 140,000     |         |
|                   | 10.04.00 | Rock Check Dams              | 1        | LS   | \$ 60,000      | \$ 60,000      |         |
|                   | 10.05.00 | Drainage - Inlets, Culverts  | 1        | LS   | \$ 60,000      | \$ 60,000      |         |
| 11                | 11.00.00 | ALLOWANCE FOR UNLISTED ITEMS |          |      |                | \$ 6,574,248   |         |
|                   | 11.01.00 | Allowance for Unlisted Items | 5.0%     | %    | \$ 131,484,955 | \$ 6,574,248   |         |
| Total Direct Cost |          |                              | 1.00     | LS   | \$ 138,059,203 | \$ 138,059,203 |         |

Sites Reservoir: 22C - Sites Access Road  
30% Cost Estimate  
Sites, CA

Cost Estimate  
AAECI Class 3  
February 28, 2025

**TOTAL ESTIMATE SUMMARY**

|                                                    |           |      |           |
|----------------------------------------------------|-----------|------|-----------|
| Total Direct Cost                                  |           |      | 2,094,588 |
| TOTAL DIRECT COST BEFORE CONTRACTOR INDIRECT COSTS |           |      | 2,094,588 |
| Mobilization                                       | 3.0%      |      | 62,838    |
| Field Overhead Costs (GC&GR)                       | 12.5%     |      | 269,678   |
| Insurance                                          | 2.0%      |      | 48,542    |
| Bonds                                              | 0.6%      |      | 14,854    |
| Total Contractor Indirect Costs                    |           |      | 395,912   |
| TOTAL CONTRACTOR COSTS                             |           |      | 2,490,500 |
| Home Office Overhead (G&A)                         | 5.5%      |      | 136,977   |
| GC Profit                                          | 8.0%      |      | 210,198   |
| Total Contractor Overhead and Profit               |           |      | 347,175   |
| TOTAL CONSTRUCTION COST BEFORE CONTINGENCIES       |           |      | 2,837,675 |
| Contingencies                                      |           |      |           |
| Design Contingencies                               | 12.7%     |      | 360,385   |
| Construction Contingencies                         | 15.0%     |      | 479,709   |
| Total Contingency Allowance                        |           |      | 840,094   |
| TOTAL COST BEFORE ESCALATION                       |           |      | 3,677,769 |
| Escalation to Mid-point of Construction            | By Others | 0%   | -         |
| RECOMMENDED CONSTRUCTION BUDGET                    |           |      | 3,677,769 |
| Non-Contract Costs                                 | By Others | 0.0% | -         |
| TOTAL ESTIMATE                                     |           |      | 3,677,769 |

DIRECT COST LEVEL 2 SUMMARY

| Item | Sub Item | Description                                                                                                                             | UoM   | Qty     | Unit Rate | Total     |
|------|----------|-----------------------------------------------------------------------------------------------------------------------------------------|-------|---------|-----------|-----------|
|      |          | Total Road Length                                                                                                                       | Miles | 1.0     |           | 2,111,383 |
|      |          | Total Road Length                                                                                                                       | LF    | 5,238   |           | 400       |
|      |          | Average Width                                                                                                                           | Feet  | 32      |           |           |
|      |          | Area                                                                                                                                    | SF    | 167,616 |           | 12        |
| 01   | 01.00.00 | Preconstruction Activities                                                                                                              |       |         |           | 33,390    |
|      | 01.01.00 | Clearing And Grubbing                                                                                                                   | ACRE  | 1       | 8,000.00  | 7,200     |
|      | 01.02.00 | Temporary Silt Fence                                                                                                                    | LF    | 13,095  | 2.00      | 26,190    |
| 02   | 02.00.00 | Roadway Excavation                                                                                                                      | CY    | 441     | 195.40    | 86,172    |
|      | 02.01.00 | Roadway Excavation - Load, Haul, Compact - Top Loading                                                                                  | CY    | 2       | 16,763.93 | 33,528    |
|      | 02.02.00 | Roadway Excavation - Load, Haul, Compact - Excess - Top Loading                                                                         | CY    | 389     | 86.19     | 33,528    |
|      | 02.03.00 | Roadway Excavation - Load, Haul, Waste - Organics - Scraper                                                                             | CY    | 50      | 382.32    | 19,116    |
|      | 02.04.00 | Roadway Excavation - Rock Cut - Drill and Shoot                                                                                         | CY    | -       |           | -         |
|      | 02.05.00 | Roadway Fill from Borrow - Load, Haul, Compact                                                                                          | CY    | -       |           | -         |
|      | 02.06.00 | Roadway Excavation (Causeway Removal of Alluvium Materials)                                                                             | CY    | -       |           | -         |
|      | 02.07.00 | Roadway Fill (Replacement of Alluvium with 10% Swell Factor)                                                                            | CY    | -       |           | -         |
| 03   | 03.00.00 | Causeway Protection                                                                                                                     |       |         |           | -         |
|      | 03.01.00 | RSP Fabric (Type A)                                                                                                                     | SY    | -       |           | -         |
|      | 03.02.00 | RSP Bedding No. 1 (Method B) - Zone 7A                                                                                                  | CY    | -       |           | -         |
|      | 03.03.00 | Rock Slope Protection (1/4 T, Method B) - Zone 7B                                                                                       | CY    | -       |           | -         |
| 04   | 04.00.00 | Pavement Structural Section                                                                                                             |       |         |           | 1,849,184 |
|      | 04.01.00 | Hot Mix Asphalt (Type A)                                                                                                                | TON   | 1,640   | 104.38    | 171,176   |
|      | 04.02.00 | Jointed Plain Concrete Pavement (A.K.A. PCC Pavement)                                                                                   | CY    | -       |           | -         |
|      | 04.03.00 | Seal Pavement Joint                                                                                                                     | LF    | -       |           | -         |
|      | 04.04.00 | Seal Longitudinal Isolation Joint                                                                                                       | LF    | -       |           | -         |
|      | 04.05.00 | Class 2 Aggregate Base                                                                                                                  | CY    | 890     | 88.99     | 79,199    |
|      | 04.06.00 | Shoulder Backing (Class 2 AB Material Daylight To Side Slope)                                                                           | TON   | 30,300  | 50.00     | 1,515,000 |
|      | 04.07.00 | Cold Plane Asphalt Concrete Pavement                                                                                                    | SY    | 220     | 3.00      | 660       |
|      | 04.08.00 | Tack Coat                                                                                                                               | TON   | 1       | 2,928.52  | 3,660     |
|      | 04.09.00 | Full Depth Reclamation-Cement                                                                                                           | SY    | 3,250   | 24.46     | 79,489    |
|      | 04.15.00 | Remove Base And Surfacing                                                                                                               | CY    | -       |           | -         |
|      | 04.16.00 | Obliterate Surfacing                                                                                                                    | SY    | -       |           | -         |
| 05   | 05.00.00 | Drainage                                                                                                                                |       |         |           | 1,950     |
|      | 05.01.00 | Remove Culvert                                                                                                                          | EA    | 1       | 1,950.00  | 1,950     |
|      | 05.02.00 | Abandon Culvert                                                                                                                         | EA    | -       |           | -         |
|      | 05.03.00 | 24" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                                                                               | LF    | -       |           | -         |
|      | 05.04.00 | 54" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                                                                               | LF    | -       |           | -         |
|      | 05.05.00 | Structural Concrete, Box Culvert (Single Cell)                                                                                          | CY    | -       |           | -         |
|      | 05.06.00 | Bar Reinforcing Steel (Box Culvert)                                                                                                     | LB    | -       |           | -         |
|      | 05.07.00 | Rock Pad Energy Dissipator (18" D X 5' W X 6' L)                                                                                        | CY    | -       |           | -         |
| 06   | 06.00.00 | Specialty Items                                                                                                                         |       |         |           | -         |
|      | 06.01.00 | Treated Wood Waste                                                                                                                      | LB    | -       |           | -         |
|      | 06.02.00 | Remove Metal Beam Guard Railing                                                                                                         | LF    | -       |           | -         |
|      | 06.03.00 | Midwest Guardrail System (Wood Post) (Includes Transition Railing, Alternative Flared/In-Line Terminal System, And End Anchor Assembly) | LF    | -       |           | -         |
| 07   | 07.00.00 | Retaining Walls                                                                                                                         |       |         |           | -         |
|      | 07.05.00 | Retaining Wall - MSE Wall                                                                                                               | SF    | -       |           | -         |
|      | 07.06.00 | Retaining Wall - Tie-Back Wall                                                                                                          | SF    | -       |           | -         |
| 08   | 08.00.00 | Traffic Items                                                                                                                           |       |         |           | 24,150    |
|      | 08.01.00 | Roadside Sign - One Post                                                                                                                | LF    | 3       | 3,500.00  | 10,500    |
|      | 08.02.00 | Two-Component Paint Traffic Stripe (6" Yellow), (Includes 2 Yellow Stripes And One Black)                                               | EA    | 5,260   | 1.97      | 10,352    |
|      | 08.03.00 | Two-Component Paint Traffic Stripe (6" White)                                                                                           | EA    | 3,950   | 0.66      | 2,591     |
|      | 08.04.00 | Two-Component Paint Pavement Marking                                                                                                    | SQFT  | 50      | 14.15     | 708       |
|      | 08.05.00 | Construction Area Signs                                                                                                                 | LS    | -       |           | -         |
|      | 08.06.00 | Portable Changeable Message Sign                                                                                                        | LS    | -       |           | -         |
|      | 08.07.00 | Traffic Control System                                                                                                                  | LS    | -       |           | -         |
| 09   | 09.00.00 | Detours - Install and Remove                                                                                                            |       |         |           | -         |
|      | 09.01.00 | Temporary Hot Mix Asphalt (Type A)                                                                                                      | CY    | -       |           | -         |
|      | 09.02.00 | Temporary Class 2 Aggregate Base                                                                                                        | CY    | -       |           | -         |
| 10   | 10.00.00 | Bridges                                                                                                                                 |       |         |           | -         |
|      | 10.01.00 | Sites Lodoga Road Realignment - New Bridge - CIP PS Concrete Box Girder                                                                 | SF    | -       |           | -         |
|      | 10.02.00 | Road 69 - Replacement (Culver/Bridge)- PC/PS Concrete Slab Girder                                                                       | SF    | -       |           | -         |
|      | 10.03.00 | Road 69 - Replacement Bridge - PC/PS Concrete Box Girder                                                                                | SF    | -       |           | -         |
|      | 10.04.00 | Road 69 - Bridge Widening                                                                                                               | SF    | -       |           | -         |
|      | 10.05.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | SF    | -       |           | -         |
|      | 10.06.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | SF    | -       |           | -         |
|      | 10.07.00 | Funks Construction Access Road - New Bridge - PC/PS Concrete Box Girder                                                                 | SF    | -       |           | -         |
|      | 10.08.00 | Dam Spillway - New Bridge - PC/PS Concrete Slab Girder                                                                                  | SF    | -       |           | -         |
| 15   | 15.00.00 | ALLOWANCE FOR UNLISTED ITEMS                                                                                                            |       |         |           | 99,742    |
|      | 15.01.00 | Allowance for Unlisted Items                                                                                                            | %     | 5.0%    |           | 99,742    |
|      |          | Total Direct Cost                                                                                                                       | -     |         |           | 2,094,588 |

TOTAL ESTIMATE SUMMARY

| Item | Sub Item | Description                                                                       | Quantity | Unit  | Unit Rate   | Total        | Comment                                                  |
|------|----------|-----------------------------------------------------------------------------------|----------|-------|-------------|--------------|----------------------------------------------------------|
|      |          | Total Road Length                                                                 | 1.0      | Miles |             |              |                                                          |
|      |          | Total Road Length                                                                 | 5,238    | LF    |             |              |                                                          |
|      |          | Average Width                                                                     | 32       | Feet  |             |              |                                                          |
|      |          | Area                                                                              | 167,616  | SF    |             |              |                                                          |
| 01   | 01.00.00 | Preconstruction Activities                                                        |          |       | \$ -        | \$ 33,390    |                                                          |
|      | 01.01.00 | Clearing And Grubbing                                                             | 1        | ACRE  | \$ 8,000.00 | \$ 7,200     |                                                          |
|      | 01.02.00 | Temporary Silt Fence                                                              | 13,095   | LF    | \$ 2.00     | \$ 26,190    | Allowance by Estimating                                  |
| 02   | 02.00.00 | Roadway Excavation                                                                |          |       |             | \$ 86,172    |                                                          |
|      | 02.01.00 | Roadway Excavation - Load, Haul, Compact - Top Loading - 0.175 Mile Haul          | 2        | CY    | 16,763.93   | 33,528       | Includes Rock Excavation Load, Haul, Compact             |
|      | 02.02.00 | Roadway Excavation - Load, Haul, Compact - Excess - Top Loading - 0.175 Mile Haul | 389      | CY    | 86.19       | 33,528       | Includes Rock Excavation Load, Haul, Compact             |
|      | 02.03.00 | Roadway Excavation - Load, Haul, Waste - Organics - Scraper - 0.25 Mile Haul      | 50       | CY    | 382.32      | 19,116       |                                                          |
|      | 02.04.00 | Roadway Excavation - Rock Cut - Drill and Shoot                                   | -        | CY    | -           | -            |                                                          |
|      | 02.04.10 | Drill Rock & Shoot                                                                | -        | CY    | -           | -            | Drill and Shoot Only                                     |
|      | 02.04.20 | Load, Haul, Stockpile                                                             | -        | CY    | -           | -            | Load, haul, compact included above 02.01.00 and 02.02.00 |
|      | 02.05.00 | Roadway Fill from Borrow - Load, Haul, Compact                                    | -        | CY    | -           | -            |                                                          |
|      | 02.05.10 | Load, Haul, and Compact - Scraper - 0.5 Mile Haul                                 | -        | CY    | -           | -            |                                                          |
|      | 02.05.20 | Load, Haul, and Compact - Top Loading - 0.5 Mile Haul                             | -        | CY    | -           | -            |                                                          |
|      | 02.06.00 | Roadway Excavation (Causeway Removal of Alluvium Materials)                       | -        | CY    | -           | -            |                                                          |
|      | 02.07.00 | Roadway Fill (Replacement of Alluvium with 10% Swell Factor)                      | -        | CY    | -           | -            |                                                          |
| 03   | 03.00.00 | Causeway Protection                                                               |          |       |             | \$ -         |                                                          |
|      | 03.01.00 | RSP Fabric (Type A)                                                               | -        | SY    | \$ -        | \$ -         |                                                          |
|      | 03.02.00 | RSP Bedding No. 1 (Method B) - Zone 7A                                            | -        | CY    | \$ -        | \$ -         |                                                          |
|      | 03.02.01 | Blasting operations                                                               | -        | CY    | \$ 6.00     | \$ -         |                                                          |
|      | 03.02.02 | Excavate to Processing                                                            | -        | CY    | \$ 3.00     | \$ -         |                                                          |
|      | 03.02.03 | Process                                                                           | -        | CY    | \$ 30.00    | \$ -         |                                                          |
|      | 03.02.04 | Load, Haul, Place Bedding                                                         | -        | CY    | \$ -        | \$ -         |                                                          |
|      | 03.03.00 | Rock Slope Protection (1/4 T, Method B) - Zone 7B                                 | -        | CY    | \$ -        | \$ -         |                                                          |
|      | 03.03.01 | Blasting operations                                                               | -        | CY    | \$ 6.00     | \$ -         |                                                          |
|      | 03.03.02 | Excavate to Processing                                                            | -        | CY    | \$ 3.00     | \$ -         |                                                          |
|      | 03.03.03 | Process Riprap                                                                    | -        | CY    | \$ 32.00    | \$ -         |                                                          |
|      | 03.03.04 | Load, Haul, Place Rip Rap                                                         | -        | CY    | \$ -        | \$ -         |                                                          |
| 04   | 04.00.00 | Pavement Structural Section                                                       |          | CY    |             | \$ 1,849,184 |                                                          |
|      | 04.01.00 | Hot Mix Asphalt (Type A)                                                          | 1,640    | TON   | \$ 104.38   | \$ 171,176   |                                                          |
|      | 04.02.00 | Jointed Plain Concrete Pavement (A.K.A. PCC Pavement)                             | -        | CY    | \$ -        | \$ -         |                                                          |
|      | 04.03.00 | Seal Pavement Joint                                                               | -        | LF    | \$ 2.00     | \$ -         |                                                          |
|      | 04.04.00 | Seal Longitudinal Isolation Joint                                                 | -        | LF    | \$ 2.00     | \$ -         |                                                          |
|      | 04.05.00 | Class 2 Aggregate Base                                                            | 890      | CY    | \$ 88.99    | \$ 79,199    | Haul 75 Miles, Direct Placement                          |
|      | 04.06.00 | Shoulder Backing (Class 2 AB Material Daylight To Side Slope)                     | 30,300   | TON   | \$ 50.00    | \$ 1,515,000 |                                                          |
|      | 04.07.00 | Cold Plane Asphalt Concrete Pavement                                              | 220      | SY    | \$ 3.00     | \$ 660       |                                                          |
|      | 04.08.00 | Tack Coat                                                                         | 1        | TON   | \$ 2,928.52 | \$ 3,660     |                                                          |
|      | 04.09.00 | Full Depth Reclamation-Cement                                                     | 3,250    | SY    | \$ 24.46    | \$ 79,489    | Mixing, Compacting                                       |
|      | 04.10.00 | Cement (Full Depth Reclamation-Cement)                                            | 120      | TON   |             |              | Included Above                                           |
|      | 04.11.00 | Supplementary Aggregate (Full Depth Recycling-Cement)                             | 72       | TON   |             |              | Included Above                                           |
|      | 04.12.00 | Asphaltic Emulsion (Full Depth Recycling-Cement)                                  | 2        | TON   |             |              | Included Above                                           |
|      | 04.13.00 | Sand Cover (Full-Depth Reclamation-Cement)                                        | 2        | TON   |             |              | Included Above                                           |
|      | 04.14.00 | Mix Design (Full Depth Recycling-Cement)                                          | 1        | LS    |             |              | Included Above                                           |
|      | 04.15.00 | Remove Base And Surfacing                                                         | -        | CY    | \$ 15.00    | \$ -         |                                                          |
|      | 04.16.00 | Obliterate Surfacing                                                              | -        | SY    | \$ 8.00     | \$ -         |                                                          |
| 05   | 05.00.00 | Drainage                                                                          |          |       |             | \$ 1,950     |                                                          |
|      | 05.01.00 | Remove Culvert                                                                    | 1        | EA    | \$ 1,950.00 | \$ 1,950     | Assume 30' Each                                          |
|      | 05.02.00 | Abandon Culvert                                                                   | -        | EA    | \$ 1,500.00 | \$ -         | Assume 30' Each                                          |
|      | 05.03.00 | 24" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                         | -        | LF    | \$ 269.60   | \$ -         |                                                          |
|      | 05.04.00 | 54" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                         | -        | LF    | \$ 770.40   | \$ -         |                                                          |
|      | 05.05.00 | Structural Concrete, Box Culvert (Single Cell)                                    | -        | CY    | \$ 2,000.00 | \$ -         |                                                          |
|      | 05.06.00 | Bar Reinforcing Steel (Box Culvert)                                               | -        | LB    | \$ 1.39     | \$ -         |                                                          |

TOTAL ESTIMATE SUMMARY

| Item              | Sub Item | Description                                                                                                                             | Quantity | Unit  | Unit Rate    | Total        | Comment                           |
|-------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------|----------|-------|--------------|--------------|-----------------------------------|
|                   | 05.07.00 | Rock Pad Energy Dissipator (18" D X 5' W X 6' L)                                                                                        | -        | CY    | \$ 175.00    | \$ -         |                                   |
| 06                | 06.00.00 | Specialty Items                                                                                                                         |          |       |              | \$ -         |                                   |
|                   | 06.01.00 | Treated Wood Waste                                                                                                                      | -        | LB    | \$ 0.50      | \$ -         |                                   |
|                   | 06.02.00 | Remove Metal Beam Guard Railing                                                                                                         | -        | LF    | \$ 5.00      | \$ -         |                                   |
|                   | 06.03.00 | Midwest Guardrail System (Wood Post) (Includes Transition Railing, Alternative Flared/In-Line Terminal System, And End Anchor Assembly) | -        | LF    | \$ 28.80     | \$ -         |                                   |
| 07                | 07.00.00 | Retaining Walls                                                                                                                         |          |       |              | \$ -         |                                   |
|                   | 07.05.00 | Retaining Wall - MSE Wall                                                                                                               | -        | SF    | \$ 134.62    | \$ -         | Allowance                         |
|                   | 07.06.00 | Retaining Wall - Tie-Back Wall                                                                                                          | -        | SF    | \$ 115.38    | \$ -         | Allowance                         |
| 08                | 08.00.00 | Traffic Items                                                                                                                           |          |       |              | \$ 24,150    |                                   |
|                   | 08.01.00 | Roadside Sign - One Post                                                                                                                | 3        | LF    | \$ 3,500.00  | \$ 10,500    |                                   |
|                   | 08.02.00 | Two-Component Paint Traffic Stripe (6" Yellow), (Includes 2 Yellow Stripes And One                                                      | 5,260    | EA    | \$ 1.97      | \$ 10,352    |                                   |
|                   | 08.03.00 | Two-Component Paint Traffic Stripe (6" White)                                                                                           | 3,950    | EA    | \$ 0.66      | \$ 2,591     |                                   |
|                   | 08.04.00 | Two-Component Paint Pavement Marking                                                                                                    | 50       | SQFT  | \$ 14.15     | \$ 708       |                                   |
|                   | 08.05.00 | Construction Area Signs                                                                                                                 | -        | LS    | \$ 9,245.92  | \$ -         | Allow 0.5% of Structural Section  |
|                   | 08.06.00 | Portable Changeable Message Sign                                                                                                        | -        | LS    | \$ 4,622.96  | \$ -         | Allow 0.25% of Structural Section |
|                   | 08.07.00 | Traffic Control System                                                                                                                  | -        | LS    | \$ 4,622.96  | \$ -         | Allow 0.25% of Structural Section |
| 09                | 09.00.00 | Detours - Install and Remove                                                                                                            |          |       |              | \$ -         |                                   |
|                   | 09.01.00 | Temporary Hot Mix Asphalt (Type A)                                                                                                      | -        | CY    | \$ 129.60    | \$ -         |                                   |
|                   | 09.02.00 | Temporary Class 2 Aggregate Base                                                                                                        | -        | CY    | \$ 100.00    | \$ -         |                                   |
| 10                | 10.00.00 | Bridges                                                                                                                                 |          |       |              | \$ -         |                                   |
|                   | 10.01.00 | Sites Lodoga Road Realignment - New Bridge - CIP PS Concrete Box Girder                                                                 | -        | SF    | \$ 750.00    | \$ -         |                                   |
|                   | 10.02.00 | Road 69 - Replacement (Culver/Bridge)- PC/PS Concrete Slab Girder                                                                       | -        | SF    | \$ 416.67    | \$ -         |                                   |
|                   | 10.03.00 | Road 69 - Replacement Bridge - PC/PS Concrete Box Girder                                                                                | -        | SF    | \$ 583.33    | \$ -         |                                   |
|                   | 10.04.00 | Road 69 - Bridge Widening                                                                                                               | -        | SF    | \$ 50.00     | \$ -         |                                   |
|                   | 10.05.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | -        | SF    | \$ 583.33    | \$ -         |                                   |
|                   | 10.06.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | -        | SF    | \$ 583.33    | \$ -         |                                   |
|                   | 10.07.00 | Funks Construction Access Road - New Bridge - PC/PS Concrete Box Girder                                                                 | -        | SF    | \$ 500.00    | \$ -         |                                   |
|                   | 10.08.00 | Dam Spillway - New Bridge - PC/PS Concrete Slab Girder                                                                                  | -        | SF    | \$ 416.67    | \$ -         |                                   |
| 15                | 15.00.00 | ALLOWANCE FOR UNLISTED ITEMS                                                                                                            |          |       |              | \$ 99,742    |                                   |
|                   | 15.01.00 | Allowance for Unlisted Items                                                                                                            | 5.0%     | %     | \$ 1,994,846 | \$ 99,742    |                                   |
| Total Direct Cost |          |                                                                                                                                         | 0.99     | Miles | \$ 2,111,383 | \$ 2,094,588 |                                   |

Sites Reservoir: 23 - Saddle Dam 3  
 30% Cost Estimate  
 Sites, CA

Cost Estimate  
 AACEI Class 3  
 February 28, 2025

# **TOTAL ESTIMATE SUMMARY**

|                   |             |
|-------------------|-------------|
| Total Direct Cost | 144,368,866 |
|-------------------|-------------|

|                                                    |             |
|----------------------------------------------------|-------------|
| TOTAL DIRECT COST BEFORE CONTRACTOR INDIRECT COSTS | 144,368,866 |
|----------------------------------------------------|-------------|

|                              |       |            |
|------------------------------|-------|------------|
| Mobilization                 | 5.0%  | 7,218,443  |
| Field Overhead Costs (GC&GR) | 17.0% | 25,769,843 |
| Insurance                    | 2.0%  | 3,547,143  |
| Bonds                        | 0.6%  | 1,085,426  |

|                                 |            |
|---------------------------------|------------|
| Total Contractor Indirect Costs | 37,620,855 |
|---------------------------------|------------|

|                       |             |
|-----------------------|-------------|
| TOTAL CONTACTOR COSTS | 181,989,721 |
|-----------------------|-------------|

|                            |       |            |
|----------------------------|-------|------------|
| Home Office Overhead (G&A) | 6.5%  | 11,829,332 |
| GC Profit                  | 10.0% | 19,381,905 |

|                                      |            |
|--------------------------------------|------------|
| Total Contractor Overhead and Profit | 31,211,237 |
|--------------------------------------|------------|

|                                              |             |
|----------------------------------------------|-------------|
| TOTAL CONSTRUCTION COST BEFORE CONTINGENCIES | 213,200,958 |
|----------------------------------------------|-------------|

|                            |       |            |
|----------------------------|-------|------------|
| Contingencies              |       |            |
| Design Contingencies       | 17.6% | 37,523,369 |
| Construction Contingencies | 15.0% | 37,608,649 |

|                             |            |
|-----------------------------|------------|
| Total Contingency Allowance | 75,132,018 |
|-----------------------------|------------|

|                              |             |
|------------------------------|-------------|
| TOTAL COST BEFORE ESCALATION | 288,332,976 |
|------------------------------|-------------|

|                                         |           |    |   |
|-----------------------------------------|-----------|----|---|
| Escalation to Mid-point of Construction | By Others | 0% | - |
|-----------------------------------------|-----------|----|---|

|                                 |             |
|---------------------------------|-------------|
| RECOMMENDED CONSTRUCTION BUDGET | 288,332,976 |
|---------------------------------|-------------|

|                    |           |      |   |
|--------------------|-----------|------|---|
| Non-Contract Costs | By Others | 0.0% | - |
|--------------------|-----------|------|---|

|                |             |
|----------------|-------------|
| TOTAL ESTIMATE | 288,332,976 |
|----------------|-------------|

DIRECT COST LEVEL 2 SUMMARY

| Item | Sub Item | Description                                                  | UoM    | 30% Cost Estimate |           |            |
|------|----------|--------------------------------------------------------------|--------|-------------------|-----------|------------|
|      |          |                                                              |        | Qty               | Unit Rate | Total      |
| 01   | 01.00.00 | PRECONSTRUCTION ACTIVITIES                                   |        |                   |           | 6,275,871  |
|      | 01.01.00 | Demolition Work                                              | LS     | -                 |           | Elsewhere  |
|      | 01.02.00 | Clearing and Grubbing                                        | ACRE   | 46                | 10,238    | 470,963    |
|      | 01.03.00 | Reservoir Clearing                                           | ACRE   | -                 |           | -          |
|      | 01.04.00 | Erosion and Sediment Control                                 | ACRE   | 46                | 107,932   | 4,964,859  |
|      | 01.05.00 | Developing haul routes - Haul routes inside reservoir        | ACRES  | 51                | 11,137    | 567,983    |
|      | 01.06.00 | Developing haul routes - Haul routes outside reservoir       | ACRES  | 12                | 11,137    | 133,643    |
|      | 01.07.00 | Developing Stockpile and Staging Areas                       | ACRES  | 8                 | 17,303    | 138,423    |
| 04   | 04.00.00 | FOUNDATION EXCAVATION                                        |        |                   |           | 8,099,837  |
|      | 04.01.00 | Topsoil Salvage                                              | BCY    | 106,000           | 6         | 660,618    |
|      | 04.02.00 | Drill and Shoot Foundation                                   | BCY    | 28,625            | 15        | 422,583    |
|      | 04.03.00 | Dam Foundation Excavation                                    | BCY    | 572,500           | 12        | 6,776,635  |
|      | 04.05.00 | Dewatering allowance                                         | Months | 8                 | 30,000    | 240,000    |
| 05   | 05.00.00 | FOUNDATION PREPARATION - BENEATH CORE                        |        |                   |           | 10,479,544 |
|      | 05.01.00 | Initial Foundation Cleaning - Core                           | SY     | 31,400            | 26        | 804,973    |
|      | 05.02.00 | Final Foundation Cleaning - Core                             | SY     | 39,250            | 34        | 1,345,454  |
|      | 05.03.00 | Dental Excavation                                            | CY     | 4,350             | 24        | 106,074    |
|      | 05.04.00 | Dental Concrete                                              | CY     | 4,350             | 529       | 2,299,184  |
|      | 05.05.00 | Backfill Concrete                                            | CY     | 8,650             | 406       | 3,509,580  |
|      | 05.06.00 | Shaping Excavations                                          | CY     | 650               | 30        | 19,286     |
|      | 05.07.00 | Slush Grout                                                  | Sacks  | 9,400             | 255       | 2,394,994  |
| 06   | 06.00.00 | GROUTING                                                     |        |                   |           | 31,713,235 |
|      | 06.01.00 | Grout Cap                                                    | CY     | -                 |           | -          |
|      | 06.02.00 | Grout Cap Anchors                                            | LF     | -                 |           | -          |
|      | 06.03.00 | Grout Cut Off Wall                                           | CY     | 2,800             | 601       | 1,683,698  |
|      | 06.04.00 | Curtain Grouting - Includes Stich and Fans                   | LF     | 110,450           | 194       | 21,473,625 |
|      | 06.05.00 | Consolidation Grouting                                       | LF     | 41,600            | 185       | 7,707,560  |
|      | 06.06.00 | Type III Cement                                              | Tons   | 3,085             | 275       | 848,352    |
| 07   | 07.00.00 | FOUNDATION PREPARATION - BENEATH SHELL                       |        |                   |           | 585,762    |
|      | 07.01.00 | Foundation Cleaning - Shell                                  | SY     | 146,100           | 4         | 585,762    |
| 08   | 08.00.00 | FOUNDATION DRAINAGE                                          |        |                   |           | 452,473    |
|      | 08.01.00 | Furnish and Install Foundation Drain Pipe                    | LF     | 3,050             | 135       | 411,490    |
|      | 08.02.00 | Furnish and Install Foundation Drain Manholes                | EA     | 1                 | 20,491    | 20,491     |
|      | 08.03.00 | Furnish and Install Inspection Well                          | EA     | 1                 | 20,491    | 20,491     |
| 09   | 09.00.00 | ROCK BORROW AREA - DEVELOP, PROCESSING, AND RESTORATION      |        |                   |           | 5,426,211  |
|      | 09.01.00 | Strip/Overburden/Waste to Stockpile                          | BCY    | -                 |           | -          |
|      | 09.02.00 | Drill, Blast, Excavate to Crusher and Riprap Process         | BCY    | 82,780            | 10        | 804,360    |
|      | 09.03.00 | Zone 4A, 4B, Zone 7A Processing                              | ECY    | 19,430            | 32        | 621,760    |
|      | 09.04.00 | Riprap and Groin Processing                                  | ECY    | 63,350            | 30        | 1,900,500  |
|      | 09.05.00 | Removal of Excess Sand/Siltstone                             | BCY    | -                 |           | -          |
|      | 09.06.00 | Replace Overburden from Stockpile                            | ECY    | 142,500           | 7         | 1,048,770  |
|      | 09.07.00 | Topsoil Replacement                                          | ECY    | 106,000           | 10        | 1,050,822  |
|      | 09.08.00 | Seeding                                                      | SF     | -                 |           | -          |
| 10   | 10.00.00 | EMBANKMENT                                                   |        |                   |           | 71,110,294 |
|      | 10.01.00 | Furnish and Install Zone 1 - Core                            | ECY    | 400,600           | 24        | 9,476,640  |
|      | 10.02.00 | Purchase, Haul and Place - Zone 2 - Filter                   | ECY    | 105,915           | 149       | 15,827,095 |
|      | 10.03.00 | Purchase, Haul and Place - Zone 3 - Drain                    | ECY    | 77,500            | 143       | 11,084,151 |
|      | 10.04.00 | Produce, Haul and Place - Zone 4A - Fine Transition          | ECY    | -                 |           | -          |
|      | 10.05.00 | Produce, Haul and Place - Zone 4B - Coarse Transition        | ECY    | -                 |           | -          |
|      | 10.06.00 | Produce, Haul and Place - Zone 8 - Fine Transition - Saddles | ECY    | 75,250            | 149       | 11,244,581 |
|      | 10.07.00 | Furnish and Install Zone 5&6 Sand/Siltstone - Rockfill       | ECY    | -                 |           | -          |
|      | 10.08.00 | Furnish and Install Zone - 9 Random                          | ECY    | 1,880,340         | 11        | 21,198,639 |
|      | 10.09.00 | Produce, Haul and Place - Zone 7A - Bedding - Saddles        | ECY    | 19,430            | 14        | 270,103    |
|      | 10.10.00 | Produce, Haul and Place - Zone 7B - Riprap                   | ECY    | 61,520            | 32        | 1,951,049  |
|      | 10.11.00 | Produce, Haul and Place - Groin Protection - Saddles         | ECY    | 1,830             | 32        | 58,037     |
| 11   | 11.00.00 | INSTRUMENTATION AND TELEMETRY                                |        |                   |           | 819,000    |

DIRECT COST LEVEL 2 SUMMARY

| Item              | Sub Item | Description                                                                                                                                    | UoM | 30% Cost Estimate |           |             |
|-------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------|-----------|-------------|
|                   |          |                                                                                                                                                |     | Qty               | Unit Rate | Total       |
|                   | 11.01.00 | Instrumentation/Telemetry: Instrumentation/Telemetry (piezometers, settlement monitors (survey monuments), seismographs, and slope indicators) | LS  | 1                 | 819,000   | 819,000     |
| 12                | 12.00.00 | SITE RESTORATION                                                                                                                               |     |                   |           | 2,531,932   |
|                   | 12.01.00 | Seeding                                                                                                                                        | SF  | 400,000           | 0         | 171,932     |
|                   | 12.02.00 | Fencing                                                                                                                                        | LF  | 800               | 75        | 60,000      |
|                   | 12.03.00 | Best Management Practices                                                                                                                      | LS  | 1                 | 1,300,000 | 1,300,000   |
|                   | 12.04.00 | Rock Check Dams                                                                                                                                | LS  | 1                 | 500,000   | 500,000     |
|                   | 12.05.00 | Drainage - Inlets, Culverts                                                                                                                    | LS  | 1                 | 500,000   | 500,000     |
| 15                | 15.00.00 | ALLOWANCE FOR UNLISTED ITEMS                                                                                                                   |     |                   |           | 6,874,708   |
|                   | 15.01.00 | Allowance for Unlisted Items                                                                                                                   | %   | 5%                |           | 6,874,708   |
| Total Direct Cost |          |                                                                                                                                                |     |                   |           | 144,368,866 |

DIRECT COST LEVEL 3 SUMMARY

| Item | Sub Item | Description                                             | Quantity | Unit   | Unit Rate     | Total         | Comment                                                      |
|------|----------|---------------------------------------------------------|----------|--------|---------------|---------------|--------------------------------------------------------------|
| 01   | 01.00.00 | PRECONSTRUCTION ACTIVITIES                              | 1        | LS     | \$ 6,275,871  | \$ 6,275,871  |                                                              |
|      | 01.01.00 | Demolition Work                                         | -        | LS     |               | Elsewhere     | Included in Demo Estimate                                    |
|      | 01.02.00 | Clearing and Grubbing                                   | 46       | ACRE   | \$ 10,238.32  | \$ 470,963    | Heavy vegetation removal                                     |
|      | 01.03.00 | Reservoir Clearing                                      | -        | ACRE   | \$ -          | \$ -          | Included in Demo Estimate                                    |
|      | 01.04.00 | Erosion and Sediment Control                            | 46       | ACRE   | \$ 107,931.72 | \$ 4,964,859  |                                                              |
|      | 01.05.00 | Developing haul routes - Haul routes inside reservoir   | 51       | ACRES  | \$ 11,136.93  | \$ 567,983    |                                                              |
|      | 01.06.00 | Developing haul routes - Haul routes outside reservoir  | 12       | ACRES  | \$ 11,136.93  | \$ 133,643    |                                                              |
|      | 01.07.00 | Developing Stockpile and Staging Areas                  | 8        | ACRES  | \$ 17,302.83  | \$ 138,423    |                                                              |
| 04   | 04.00.00 | FOUNDATION EXCAVATION                                   |          | BCY    |               | \$ 8,099,837  |                                                              |
|      | 04.01.00 | Topsoil Salvage                                         | 106,000  | BCY    | \$ 6.23       | \$ 660,618    | Allowance by Estimating                                      |
|      | 04.02.00 | Drill and Shoot Foundation                              | 28,625   | BCY    | \$ 14.76      | \$ 422,583    | 5% Allowance by Estimating                                   |
|      | 04.02.10 | Drill Foundation & Shoot                                | 28,625   | BCY    | \$ 14.76      | \$ 422,583    | Drill, Shoot, Explosives, Monitoring                         |
|      | 04.02.20 | Load, Haul, Stockpile - Shot Rock                       | -        | BCY    | \$ -          | \$ -          | Included Below                                               |
|      | 04.03.00 | Dam Foundation Excavation                               | 572,500  | BCY    | \$ 11.84      | \$ 6,776,635  |                                                              |
|      | 04.03.10 | Load, Haul, Stockpile - Top Loading                     | 572,500  | BCY    | \$ 11.84      | \$ 6,776,635  |                                                              |
|      | 04.03.20 | Load, Haul, Stockpile - Scraper                         | -        | BCY    | \$ -          | \$ -          | Not Anticipated                                              |
|      | 04.05.00 | Dewatering allowance                                    | 8        | Months | \$ 30,000.00  | \$ 240,000    | Allowance                                                    |
| 05   | 05.00.00 | FOUNDATION PREPARATION - BENEATH CORE                   |          |        |               | \$ 10,479,544 |                                                              |
|      | 05.01.00 | Initial Foundation Cleaning - Core                      | 31,400   | SY     | \$ 25.64      | \$ 804,973    |                                                              |
|      | 05.01.10 | Initial foundation core cleanup                         | 31,400   | SY     | \$ 25.64      | \$ 804,973    |                                                              |
|      | 05.02.00 | Final Foundation Cleaning - Core                        | 39,250   | SY     | \$ 34.28      | \$ 1,345,454  |                                                              |
|      | 05.02.10 | Final foundation core cleanup                           | 39,250   | SY     | \$ 34.28      | \$ 1,345,454  |                                                              |
|      | 05.03.00 | Dental Excavation                                       | 4,350    | CY     | \$ 24.38      | \$ 106,074    |                                                              |
|      | 05.03.10 | Dental excavations                                      | 4,350    | CY     | \$ 24.38      | \$ 106,074    |                                                              |
|      | 05.04.00 | Dental Concrete                                         | 4,350    | CY     | \$ 528.55     | \$ 2,299,184  |                                                              |
|      | 05.05.00 | Backfill Concrete                                       | 8,650    | CY     | \$ 405.73     | \$ 3,509,580  |                                                              |
|      | 05.06.00 | Shaping Excavations                                     | 650      | CY     | \$ 29.67      | \$ 19,286     |                                                              |
|      | 05.07.00 | Slush Grout                                             | 9,400    | Sacks  | \$ 254.79     | \$ 2,394,994  |                                                              |
| 06   | 06.00.00 | GROUTING                                                |          |        |               | \$ 31,713,235 |                                                              |
|      | 06.01.00 | Grout Cap                                               | -        | CY     | \$ 1,443.98   | \$ -          |                                                              |
|      | 06.02.00 | Grout Cap Anchors                                       | -        | LF     | \$ 179.91     | \$ -          | New Item - 5x5 pattern - 15' Anchors                         |
|      | 06.03.00 | Grout Cut Off Wall                                      | 2,800    | CY     | \$ 601.32     | \$ 1,683,698  |                                                              |
|      | 06.03.10 | Excavation                                              | 2,800    | CY     | \$ 21.49      | \$ 60,176     |                                                              |
|      | 06.03.02 | Concrete                                                | 2,800    | CY     | \$ 579.83     | \$ 1,623,522  |                                                              |
|      | 06.04.00 | Curtain Grouting - Includes Stitch and Fans             | 110,450  | LF     | \$ 194.42     | \$ 21,473,625 | Includes Primary, Secondary, Tertiary, HOH, Stitch, and Fans |
|      | 06.04.10 | Drill setup for all holes                               | 1,496    | ea.    | \$ 1,000.00   | \$ 1,496,000  |                                                              |
|      | 06.04.20 | Drill curtain grout holes                               | 110,450  | lft    | \$ 90.00      | \$ 9,940,500  |                                                              |
|      | 06.04.30 | Redrill grout holes                                     | 11,045   | lft    | \$ 90.00      | \$ 994,050    | Assume 10% to be redrilled                                   |
|      | 06.04.40 | Hookup to grout holes and grout nipples                 | 5,523    | ea.    | \$ 150.00     | \$ 828,375    | 1 x hookup every 20'                                         |
|      | 06.04.50 | Mix and Inject portland cement grout                    | 44,830   | sack   | \$ 140.00     | \$ 6,276,200  |                                                              |
|      | 06.04.60 | Perform hydraulic conductivity tests                    | 1,496    | ea.    | \$ 1,030.00   | \$ 1,540,880  |                                                              |
|      | 06.04.70 | Verification Holes                                      | 2,209    | LF     | \$ 180.00     | \$ 397,620    |                                                              |
|      | 06.05.00 | Consolidation Grouting                                  | 41,600   | LF     | \$ 185.28     | \$ 7,707,560  |                                                              |
|      | 06.05.10 | Drill setup for all holes                               | 1,387    | ea.    | \$ 750.00     | \$ 1,040,250  |                                                              |
|      | 06.05.20 | Drill curtain grout holes                               | 41,600   | lft    | \$ 77.50      | \$ 3,224,000  |                                                              |
|      | 06.05.30 | Redrill grout holes                                     | 4,160    | lft    | \$ 77.50      | \$ 322,400    | Assume 10% to be redrilled                                   |
|      | 06.05.40 | Hookup to grout holes and grout nipples                 | 1,387    | ea.    | \$ 150.00     | \$ 208,000    | 1 x hookup every 20'                                         |
|      | 06.05.50 | Mix and Inject portland cement grout                    | 20,807   | sack   | \$ 140.00     | \$ 2,912,910  | Allow 5 hours per hole                                       |
|      | 06.05.60 | Perform hydraulic conductivity tests                    | -        | ea.    | \$ 1,030.00   | \$ -          |                                                              |
|      | 06.05.70 | Verification Holes                                      | -        | LF     | \$ 180.00     | \$ -          |                                                              |
|      | 06.06.00 | Type III Cement                                         | 3,085    | Tons   | \$ 275.00     | \$ 848,352    |                                                              |
| 07   | 07.00.00 | FOUNDATION PREPARATION - BENEATH SHELL                  |          |        |               | \$ 585,762    |                                                              |
|      | 07.01.00 | Foundation Cleaning - Shell                             | 146,100  | SY     | \$ 4.01       | \$ 585,762    |                                                              |
|      | 07.01.10 | Dam shell cleanup                                       | 146,100  | SY     | \$ 4.01       | \$ 585,762    |                                                              |
| 08   | 08.00.00 | FOUNDATION DRAINAGE                                     |          |        |               | \$ 452,473    |                                                              |
|      | 08.01.00 | Furnish and Install Foundation Drain Pipe               | 3,050    | LF     | \$ 134.91     | \$ 411,490    | 6" Pipe                                                      |
|      | 08.02.00 | Furnish and Install Inspection Well                     | 1        | EA     | \$ 20,491.47  | \$ 20,491     |                                                              |
|      | 08.03.00 | Furnish and Install Weir Vault                          | 1        | EA     | \$ 20,491.47  | \$ 20,491     |                                                              |
| 09   | 09.00.00 | ROCK BORROW AREA - DEVELOP, PROCESSING, AND RESTORATION |          |        |               | \$ 5,426,211  |                                                              |

DIRECT COST LEVEL 3 SUMMARY

| Item | Sub Item | Description                                                                                                                                    | Quantity  | Unit | Unit Rate     | Total         | Comment                                                                              |
|------|----------|------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------|---------------|---------------|--------------------------------------------------------------------------------------|
|      | 09.01.00 | Strip/Overburden/Waste to Stockpile                                                                                                            | -         | BCY  | \$ -          | \$ -          | Included with Main Dam                                                               |
|      | 09.02.00 | Drill, Blast Borrow, Excavate to Crusher and Riprap Process                                                                                    | 82,780    | BCY  | \$ 9.72       | \$ 804,360    |                                                                                      |
|      | 09.02.10 | Drill and Blast                                                                                                                                | 82,780    | BCY  | \$ 5.58       | \$ 462,024    |                                                                                      |
|      | 09.02.11 | Allowance for Waste                                                                                                                            | 12,417    | BCY  | \$ 5.58       | \$ 69,304     |                                                                                      |
|      | 09.02.20 | Excavate to Riprap and Crusher Plants                                                                                                          | 82,780    | ECY  | \$ 3.30       | \$ 273,033    |                                                                                      |
|      | 09.03.00 | Zone 4A, 4B, 7A Processing                                                                                                                     | 19,430    | ECY  | \$ 32.00      | \$ 621,760    | See Borrow Estimate                                                                  |
|      | 09.03.10 | Prep Site                                                                                                                                      |           |      |               |               |                                                                                      |
|      | 09.03.20 | Crusher Mob and Set Up                                                                                                                         |           |      |               |               |                                                                                      |
|      | 09.03.30 | Crush Primary                                                                                                                                  |           |      |               |               |                                                                                      |
|      | 09.03.40 | Crush Secondary                                                                                                                                |           |      |               |               |                                                                                      |
|      | 09.03.50 | Screening                                                                                                                                      |           |      |               |               |                                                                                      |
|      | 09.03.60 | Crusher Demob                                                                                                                                  |           |      |               |               |                                                                                      |
|      | 09.04.00 | Riprap Processing                                                                                                                              | 63,350    | ECY  | \$ 30.00      | \$ 1,900,500  | See Borrow Estimate                                                                  |
|      | 09.04.10 | Processing Riprap                                                                                                                              | 63,350    | ECY  | \$ 30.00      | \$ 1,900,500  |                                                                                      |
|      | 09.06.00 | Replace Overburden from Stockpile                                                                                                              | 142,500   | ECY  | \$ 7.36       | \$ 1,048,770  | Backfill Borrow area using material from stockpile, allow 100% of stripping material |
|      | 09.06.10 | Load and haul to site stockpile, 0.25 mile haul                                                                                                | 156,750   | LCY  | \$ 6.69       | \$ 1,048,770  |                                                                                      |
| 10   | 10.00.00 | EMBANKMENT                                                                                                                                     |           |      |               | \$ 71,110,294 |                                                                                      |
|      | 10.01.00 | Furnish and Install Zone 1 - Core                                                                                                              | 400,600   | ECY  | \$ 23.66      | \$ 9,476,640  |                                                                                      |
|      | 10.01.10 | Strip Borrow Areas and Haul to Waste - 0.25 Mile Haul                                                                                          | 53,000    | BCY  | \$ 4.69       | \$ 248,822    | Per MBD, Scrapers                                                                    |
|      | 10.01.20 | Load, Haul, and Stockpile - Top Loading - 0.25 Mile Haul                                                                                       | 471,294   | BCY  | \$ 8.74       | \$ 4,119,283  | Per MBD, Top Loading Equipment                                                       |
|      | 10.01.30 | Moisture Condition At Stockpile                                                                                                                | 471,294   | ECY  | \$ 2.83       | \$ 1,331,584  | Disc. Blade, Water Truck                                                             |
|      | 10.01.40 | Load, Haul, and Compact Contact Zone - Scraper - 0.75 Mile Haul                                                                                | 20,030    | ECY  | \$ 13.98      | \$ 279,977    | 1st Lift - 988 Rubber Tire                                                           |
|      | 10.01.50 | Load, Haul, and Compact Wide Zone - Scraper - 0.75 Mile Haul                                                                                   | 300,450   | ECY  | \$ 8.81       | \$ 2,648,193  | Load and Haul from Stockpile to Dam                                                  |
|      | 10.01.60 | Load, Haul, and Compact Narrow Zone - Scraper - 0.75 Mile Haul                                                                                 | 80,120    | ECY  | \$ 10.59      | \$ 848,780    |                                                                                      |
|      | 10.02.00 | Purchase, Haul and Place - Zone 2 - Filter                                                                                                     | 105,915   | ECY  | \$ 149.43     | \$ 15,827,095 | CY to Tons - 1.7, Waste & Overbuild 20%                                              |
|      | 10.02.10 | Purchase processed material from quarry - Filter                                                                                               | 216,067   | Tons | \$ 40.14      | \$ 8,672,238  |                                                                                      |
|      | 10.02.20 | Haul material to stockpile, 65 mile haul                                                                                                       | 216,067   | Tons | \$ 21.30      | \$ 4,602,219  |                                                                                      |
|      | 10.02.30 | Drive Over Unloaders & Stockpile Support                                                                                                       | 105,915   | ECY  | \$ 5.30       | \$ 561,078    |                                                                                      |
|      | 10.02.40 | Load, Haul, and Compact Blanket - Top Loading - 0.5 Mile Haul                                                                                  | 58,248    | ECY  | \$ 13.90      | \$ 809,717    |                                                                                      |
|      | 10.02.50 | Load, Haul, and Compact Chimney - Top Loading - 0.5 Mile Haul                                                                                  | 47,668    | ECY  | \$ 24.79      | \$ 1,181,843  |                                                                                      |
|      | 10.03.00 | Purchase, Haul and Place - Zone 3 - Drain                                                                                                      | 77,500    | ECY  | \$ 143.02     | \$ 11,084,151 | CY to Tons - 1.7, Waste & Overbuild 20%                                              |
|      | 10.03.10 | Purchase processed material from quarry - Drain                                                                                                | 158,100   | Tons | \$ 33.94      | \$ 5,366,112  |                                                                                      |
|      | 10.03.20 | Haul material from quarry to site stockpile/fill location, 75 mile haul                                                                        | 158,100   | Tons | \$ 24.30      | \$ 3,841,830  |                                                                                      |
|      | 10.03.30 | Drive Over Unloaders & Stockpile Support                                                                                                       | 77,500    | ECY  | \$ 5.30       | \$ 410,552    |                                                                                      |
|      | 10.03.40 | Load, Haul, and Compact Blanket - Top Loading - 0.5 Mile Haul                                                                                  | 41,850    | ECY  | \$ 13.90      | \$ 581,770    | Filter Rate                                                                          |
|      | 10.03.50 | Load, Haul, and Compact Chimney - Top Loading - 0.5 Mile Haul                                                                                  | 35,650    | ECY  | \$ 24.79      | \$ 883,887    | Filter Rate                                                                          |
|      | 10.06.00 | Purchase, Haul and Place - Zone 8 - Fine Transition - Saddles                                                                                  | 75,250    | ECY  | \$ 149.43     | \$ 11,244,581 |                                                                                      |
|      | 10.06.10 | Purchase processed material from quarry - Offsite Transition                                                                                   | 153,510   | Tons | \$ 40.14      | \$ 6,161,412  | At Filter Rate                                                                       |
|      | 10.06.20 | Haul material to stockpile, 65 mile haul                                                                                                       | 153,510   | Tons | \$ 21.30      | \$ 3,269,763  | At Filter Rate                                                                       |
|      | 10.06.30 | Drive Over Unloaders & Stockpile Support                                                                                                       | 75,250    | ECY  | \$ 5.30       | \$ 398,632    | At Filter Rate                                                                       |
|      | 10.06.40 | Load, Haul, and Compact Blanket - Top Loading - 1.0 Mile Haul                                                                                  | 41,400    | ECY  | \$ 13.90      | \$ 575,515    | At Filter Rate                                                                       |
|      | 10.06.50 | Load, Haul, and Compact Chimney - Top Loading - 1.0 Mile Haul                                                                                  | 33,850    | ECY  | \$ 24.79      | \$ 839,259    | At Filter Rate                                                                       |
|      | 10.08.00 | Furnish and Install Zone - 9 Random                                                                                                            | 1,880,340 | ECY  | \$ 11.27      | \$ 21,198,639 |                                                                                      |
|      | 10.08.10 | 29 Strip/Overburden/Surplus                                                                                                                    | 232,000   | BCY  | \$ 4.61       | \$ 1,069,937  |                                                                                      |
|      | 10.08.20 | Blasting operations                                                                                                                            | -         | BCY  | \$ -          | \$ -          | Not Required                                                                         |
|      | 10.08.30 | Sorting and Raking                                                                                                                             | 1,880,340 | ECY  | \$ 1.80       | \$ 3,383,007  |                                                                                      |
|      | 10.08.40 | Load, Haul, and Compact - Scraper - 0.5 Mile Haul                                                                                              | 515,250   | ECY  | \$ 6.52       | \$ 3,357,112  | From excavation stockpile to dam                                                     |
|      | 10.08.50 | Load, Haul, and Compact - Scraper - 1.0 Mile Haul                                                                                              | 682,545   | ECY  | \$ 8.06       | \$ 5,500,094  | No stockpiling required, direct haul                                                 |
|      | 10.08.60 | Load, Haul, and Compact - Top Loading - 1.0 Mile Haul                                                                                          | 682,545   | ECY  | \$ 11.56      | \$ 7,888,490  | No stockpiling required, direct haul                                                 |
|      | 10.09.00 | Produce, Haul and Place - Zone 7A - Bedding - Saddles                                                                                          | 19,430    | ECY  | \$ 13.90      | \$ 270,103    |                                                                                      |
|      | 10.09.10 | 7A - Bedding Material Produced On Site                                                                                                         | 39,637    | Tons | \$ -          | \$ -          |                                                                                      |
|      | 10.09.20 | Load, Haul, and Compact - Top Loading - 12 Mile Haul                                                                                           | 19,430    | ECY  | \$ 13.90      | \$ 270,103    | At Filter Rate                                                                       |
|      | 10.10.00 | Produce, Haul and Place - Zone 7B - Riprap                                                                                                     | 61,520    | ECY  | \$ 31.71      | \$ 1,951,049  |                                                                                      |
|      | 10.10.10 | Blasting operations                                                                                                                            | -         | ECY  | \$ -          | \$ -          | Included Above in 09                                                                 |
|      | 10.10.20 | Excavate to Riprap Processing                                                                                                                  | -         | ECY  | \$ -          | \$ -          | Included Above in 09                                                                 |
|      | 10.10.30 | Process Riprap                                                                                                                                 | -         | ECY  | \$ -          | \$ -          | Not required                                                                         |
|      | 10.10.40 | Load, Haul, Place Riprap - Top Loading - 12 Mile Haul                                                                                          | 61,520    | ECY  | \$ 31.71      | \$ 1,951,049  | Included Above in 09                                                                 |
|      | 10.11.00 | Groin Protection at Saddles                                                                                                                    | 1,830     | ECY  | \$ 31.71      | \$ 58,037     |                                                                                      |
|      | 10.11.10 | Blasting operations                                                                                                                            | -         | LCY  | \$ -          | \$ -          | Included Above in 09                                                                 |
|      | 10.11.20 | Excavate to Riprap Processing                                                                                                                  | -         | LCY  | \$ -          | \$ -          | Included Above in 09                                                                 |
|      | 10.11.30 | Process Riprap                                                                                                                                 | -         | LCY  | \$ -          | \$ -          | Not required                                                                         |
|      | 10.11.40 | Load, Haul, Place Riprap - Top Loading - 12 Mile Haul                                                                                          | 1,830     | LCY  | \$ 31.71      | \$ 58,037     | At Riprap Rate                                                                       |
| 11   | 11.00.00 | INSTRUMENTATION AND TELEMETRY                                                                                                                  |           |      |               | \$ 819,000    |                                                                                      |
|      | 11.01.00 | Instrumentation/Telemetry: Instrumentation/Telemetry (piezometers, settlement monitors (survey monuments), seismographs, and slope indicators) | 1         | LS   | \$ 819,000.00 | \$ 819,000    | Allowance                                                                            |
|      | 11.01.01 | Vibrating Wire Piezometers                                                                                                                     | 10        | EA   | \$ 20,000.00  | \$ 200,000    | Allowance for redundant installation                                                 |
|      | 11.01.02 | Open Standpipe Piezometer                                                                                                                      | 6         | EA   | \$ 12,000.00  | \$ 72,000     |                                                                                      |
|      | 11.01.03 | Vibrating Wire Weir Monitors                                                                                                                   | 1         | EA   | \$ 15,000.00  | \$ 15,000     |                                                                                      |
|      | 11.01.04 | Survey Monuments                                                                                                                               | 11        | EA   | \$ 2,000.00   | \$ 22,000     |                                                                                      |
|      | 11.01.11 | Wireless Stations                                                                                                                              | 4         | EA   | \$ 15,000.00  | \$ 60,000     | 4 Devices per Station                                                                |
|      | 11.01.12 | Central Monitoring Station                                                                                                                     | 1         | EA   | \$ 300,000.00 | \$ 300,000    |                                                                                      |
|      | 11.01.13 | Wireless and Solar Transmission Station                                                                                                        | 1         | EA   | \$ 100,000.00 | \$ 100,000    | Wireless Signals will be sent to HC Control Building                                 |
|      | 11.01.14 | Conduit and Cable Devices                                                                                                                      | 2,000     | LF   | \$ 25.00      | \$ 50,000     |                                                                                      |
| 12   | 12.00.00 | SITE RESTORATION                                                                                                                               |           |      |               | \$ 2,531,932  |                                                                                      |
|      | 12.01.00 | Seeding                                                                                                                                        | 400,000   | SF   | \$ 0.43       | \$ 171,932    | Allowance                                                                            |
|      | 12.02.00 | Fencing                                                                                                                                        | 800       | LF   | \$ 75.00      | \$ 60,000     | Allowance                                                                            |

DIRECT COST LEVEL 3 SUMMARY

| Item              | Sub Item | Description                  | Quantity | Unit | Unit Rate       | Total          | Comment   |
|-------------------|----------|------------------------------|----------|------|-----------------|----------------|-----------|
|                   | 12.03.00 | Best Management Practices    | 1        | LS   | \$ 1,300,000.00 | \$ 1,300,000   | Allowance |
|                   | 12.04.00 | Rock Check Dams              | 1        | LS   | \$ 500,000.00   | \$ 500,000     | Allowance |
|                   | 12.05.00 | Drainage - Inlets, Culverts  | 1        | LS   | \$ 500,000.00   | \$ 500,000     | Allowance |
| 15                | 15.00.00 | ALLOWANCE FOR UNLISTED ITEMS |          |      |                 | \$ 6,874,708   |           |
|                   | 15.01.00 | Allowance for Unlisted Items | 5.0%     | %    | \$ 137,494,158  | \$ 6,874,708   |           |
| Total Direct Cost |          |                              | 2.62     | MCY  | \$ 55.05        | \$ 144,368,866 |           |

Sites Reservoir: 24 - Saddle Dam 5  
 30% Cost Estimate  
 Sites, CA

Cost Estimate  
 AACEI Class 3  
 February 28, 2025

# TOTAL ESTIMATE SUMMARY

|                                                    |           |      |             |
|----------------------------------------------------|-----------|------|-------------|
| Total Direct Cost                                  |           |      | 65,852,762  |
| TOTAL DIRECT COST BEFORE CONTRACTOR INDIRECT COSTS |           |      | 65,852,762  |
| Mobilization                                       | 5.0%      |      | 3,292,638   |
| Field Overhead Costs (GC&GR)                       | 17.0%     |      | 11,754,718  |
| Insurance                                          | 2.0%      |      | 1,618,002   |
| Bonds                                              | 0.6%      |      | 495,109     |
| Total Contractor Indirect Costs                    |           |      | 17,160,467  |
| TOTAL CONTACTOR COSTS                              |           |      | 83,013,229  |
| Home Office Overhead (G&A)                         | 6.5%      |      | 5,395,860   |
| GC Profit                                          | 10.0%     |      | 8,840,909   |
| Total Contractor Overhead and Profit               |           |      | 14,236,769  |
| TOTAL CONSTRUCTION COST BEFORE CONTINGENCIES       |           |      | 97,249,998  |
| Contingencies                                      |           |      |             |
| Design Contingencies                               | 17.6%     |      | 17,116,000  |
| Construction Contingencies                         | 15.0%     |      | 17,154,900  |
| Total Contingency Allowance                        |           |      | 34,270,900  |
| TOTAL COST BEFORE ESCALATION                       |           |      | 131,520,898 |
| Escalation to Mid-point of Construction            | By Others | 0%   | -           |
| RECOMMENDED CONSTRUCTION BUDGET                    |           |      | 131,520,898 |
| Non-Contract Costs                                 | By Others | 0.0% | -           |
| TOTAL ESTIMATE                                     |           |      | 131,520,898 |

DIRECT COST LEVEL 2 SUMMARY

| Item | Sub Item | Description                                                  | UoM    | 30% Cost Estimate |           |            |
|------|----------|--------------------------------------------------------------|--------|-------------------|-----------|------------|
|      |          |                                                              |        | Qty               | Unit Rate | Total      |
| 01   | 01.00.00 | PRECONSTRUCTION ACTIVITIES                                   |        |                   |           | 3,086,382  |
|      | 01.01.00 | Demolition Work                                              | LS     | -                 |           | Elsewhere  |
|      | 01.02.00 | Clearing and Grubbing                                        | ACRE   | 20                | 10,229    | 204,580    |
|      | 01.03.00 | Reservoir Clearing                                           | ACRE   | -                 |           | -          |
|      | 01.04.00 | Erosion and Sediment Control                                 | ACRE   | 20                | 107,694   | 2,153,888  |
|      | 01.05.00 | Developing haul routes - Haul routes inside reservoir        | ACRES  | 32                | 11,126    | 356,040    |
|      | 01.06.00 | Developing haul routes - Haul routes outside reservoir       | ACRES  | 21                | 11,126    | 233,651    |
|      | 01.07.00 | Developing Stockpile and Staging Areas                       | ACRES  | 8                 | 17,278    | 138,223    |
| 04   | 04.00.00 | FOUNDATION EXCAVATION                                        |        |                   |           | 4,409,281  |
|      | 04.01.00 | Topsoil Salvage                                              | BCY    | 58,000            | 6         | 354,478    |
|      | 04.02.00 | Drill and Shoot Foundation                                   | BCY    | 15,000            | 15        | 223,061    |
|      | 04.03.00 | Dam Foundation Excavation                                    | BCY    | 300,000           | 12        | 3,551,741  |
|      | 04.05.00 | Dewatering allowance                                         | Months | 8                 | 35,000    | 280,000    |
| 05   | 05.00.00 | FOUNDATION PREPARATION - BENEATH CORE                        |        |                   |           | 5,516,082  |
|      | 05.01.00 | Initial Foundation Cleaning - Core                           | SY     | 16,600            | 26        | 425,485    |
|      | 05.02.00 | Final Foundation Cleaning - Core                             | SY     | 20,750            | 34        | 712,976    |
|      | 05.03.00 | Dental Excavation                                            | CY     | 2,200             | 26        | 57,858     |
|      | 05.04.00 | Dental Concrete                                              | CY     | 2,200             | 528       | 1,162,243  |
|      | 05.05.00 | Backfill Concrete                                            | CY     | 4,600             | 408       | 1,877,652  |
|      | 05.06.00 | Shaping Excavations                                          | CY     | 350               | 28        | 9,643      |
|      | 05.07.00 | Slush Grout                                                  | Sacks  | 5,000             | 254       | 1,270,225  |
| 06   | 06.00.00 | GROUTING                                                     |        |                   |           | 20,648,313 |
|      | 06.01.00 | Grout Cap                                                    | CY     | -                 |           | -          |
|      | 06.02.00 | Grout Cap Anchors                                            | LF     | -                 |           | -          |
|      | 06.03.00 | Grout Cut Off Wall                                           | CY     | 1,615             | 601       | 970,127    |
|      | 06.04.00 | Curtain Grouting - Includes Stich and Fans                   | LF     | 81,300            | 190       | 15,417,450 |
|      | 06.05.00 | Consolidation Grouting                                       | LF     | 20,000            | 185       | 3,702,260  |
|      | 06.06.00 | Type III Cement                                              | Tons   | 2,031             | 275       | 558,476    |
| 07   | 07.00.00 | FOUNDATION PREPARATION - BENEATH SHELL                       |        |                   |           | 257,164    |
|      | 07.01.00 | Foundation Cleaning - Shell                                  | SY     | 64,800            | 4         | 257,164    |
| 08   | 08.00.00 | FOUNDATION DRAINAGE                                          |        |                   |           | 387,430    |
|      | 08.01.00 | Furnish and Install Foundation Drain Pipe                    | LF     | 2,270             | 135       | 305,583    |
|      | 08.02.00 | Furnish and Install Foundation Drain Manholes                | EA     | 2                 | 20,462    | 40,924     |
|      | 08.03.00 | Furnish and Install Inspection Well                          | EA     | 2                 | 20,462    | 40,924     |
| 09   | 09.00.00 | ROCK BORROW AREA - DEVELOP, PROCESSING, AND RESTORATION      |        |                   |           | 2,113,183  |
|      | 09.01.00 | Strip/Overburden/Waste to Stockpile                          | BCY    | -                 |           | -          |
|      | 09.02.00 | Drill, Blast, Excavate to Crusher and Riprap Process         | BCY    | 28,930            | 10        | 280,640    |
|      | 09.03.00 | Zone 4A, 4B, Zone 7A Processing                              | ECY    | 6,700             | 32        | 214,400    |
|      | 09.04.00 | Riprap and Groin Processing                                  | ECY    | 22,230            | 30        | 666,900    |
|      | 09.05.00 | Removal of Excess Sand/Siltstone                             | BCY    | -                 |           | -          |
|      | 09.06.00 | Replace Overburden from Stockpile                            | ECY    | 49,000            | 8         | 373,291    |
|      | 09.07.00 | Topsoil Replacement                                          | ECY    | 58,000            | 10        | 577,952    |
|      | 09.08.00 | Seeding                                                      | SF     | -                 |           | -          |
| 10   | 10.00.00 | EMBANKMENT                                                   |        |                   |           | 24,353,611 |
|      | 10.01.00 | Furnish and Install Zone 1 - Core                            | ECY    | 138,020           | 24        | 3,331,656  |
|      | 10.02.00 | Purchase, Haul and Place - Zone 2 - Filter                   | ECY    | 36,513            | 150       | 5,463,166  |
|      | 10.03.00 | Purchase, Haul and Place - Zone 3 - Drain                    | ECY    | 26,700            | 143       | 3,823,539  |
|      | 10.04.00 | Produce, Haul and Place - Zone 4A - Fine Transition          | ECY    | -                 |           | -          |
|      | 10.05.00 | Produce, Haul and Place - Zone 4B - Coarse Transition        | ECY    | -                 |           | -          |
|      | 10.06.00 | Produce, Haul and Place - Zone 8 - Fine Transition - Saddles | ECY    | 25,950            | 150       | 3,882,883  |
|      | 10.07.00 | Furnish and Install Zone 5&6 Sand/Siltstone - Rockfill       | ECY    | -                 |           | -          |
|      | 10.08.00 | Furnish and Install Zone - 9 Random                          | ECY    | 647,850           | 11        | 7,019,641  |
|      | 10.09.00 | Produce, Haul and Place - Zone 7A - Bedding - Saddles        | ECY    | 6,700             | 14        | 96,224     |
|      | 10.10.00 | Produce, Haul and Place - Zone 7B - Riprap                   | ECY    | 21,200            | 33        | 702,378    |
|      | 10.11.00 | Produce, Haul and Place - Groin Protection - Saddles         | ECY    | 1,030             | 33        | 34,125     |
| 11   | 11.00.00 | INSTRUMENTATION AND TELEMETRY                                |        |                   |           | 635,000    |

DIRECT COST LEVEL 2 SUMMARY

| Item              | Sub Item | Description                                                                                                                                    | UoM | 30% Cost Estimate |           |            |
|-------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------|-----------|------------|
|                   |          |                                                                                                                                                |     | Qty               | Unit Rate | Total      |
|                   | 11.01.00 | Instrumentation/Telemetry: Instrumentation/Telemetry (piezometers, settlement monitors (survey monuments), seismographs, and slope indicators) | LS  | 1                 | 635,000   | 635,000    |
| 12                | 12.00.00 | SITE RESTORATION                                                                                                                               |     |                   |           | 1,310,470  |
|                   | 12.01.00 | Seeding                                                                                                                                        | SF  | 170,000           | 0         | 72,970     |
|                   | 12.02.00 | Fencing                                                                                                                                        | LF  | 500               | 75        | 37,500     |
|                   | 12.03.00 | Best Management Practices                                                                                                                      | LS  | 1                 | 600,000   | 600,000    |
|                   | 12.04.00 | Rock Check Dams                                                                                                                                | LS  | 1                 | 300,000   | 300,000    |
|                   | 12.05.00 | Drainage - Inlets, Culverts                                                                                                                    | LS  | 1                 | 300,000   | 300,000    |
| 15                | 15.00.00 | ALLOWANCE FOR UNLISTED ITEMS                                                                                                                   |     |                   |           | 3,135,846  |
|                   | 15.01.00 | Allowance for Unlisted Items                                                                                                                   | %   | 5%                |           | 3,135,846  |
| Total Direct Cost |          |                                                                                                                                                |     |                   |           | 65,852,762 |

DIRECT COST LEVEL 3 SUMMARY

| Item | Sub Item | Description                                                 | Quantity | Unit   | Unit Rate     | Total         | Comment                                                      |
|------|----------|-------------------------------------------------------------|----------|--------|---------------|---------------|--------------------------------------------------------------|
| 01   | 01.00.00 | PRECONSTRUCTION ACTIVITIES                                  | 1        | LS     | \$ 3,086,382  | \$ 3,086,382  |                                                              |
|      | 01.01.00 | Demolition Work                                             | -        | LS     |               | Elsewhere     | Included in Demo Estimate                                    |
|      | 01.02.00 | Clearing and Grubbing                                       | 20       | ACRE   | \$ 10,229.01  | \$ 204,580    | Heavy vegetation removal                                     |
|      | 01.03.00 | Reservoir Clearing                                          | -        | ACRE   | \$ -          | \$ -          | Included in Demo Estimate                                    |
|      | 01.04.00 | Erosion and Sediment Control                                | 20       | ACRE   | \$ 107,694.40 | \$ 2,153,888  |                                                              |
|      | 01.05.00 | Developing haul routes - Haul routes inside reservoir       | 32       | ACRES  | \$ 11,126.25  | \$ 356,040    |                                                              |
|      | 01.06.00 | Developing haul routes - Haul routes outside reservoir      | 21       | ACRES  | \$ 11,126.25  | \$ 233,651    |                                                              |
|      | 01.07.00 | Developing Stockpile and Staging Areas                      | 8        | ACRES  | \$ 17,277.91  | \$ 138,223    |                                                              |
| 04   | 04.00.00 | FOUNDATION EXCAVATION                                       |          | BCY    |               | \$ 4,409,281  |                                                              |
|      | 04.01.00 | Topsoil Salvage                                             | 58,000   | BCY    | \$ 6.11       | \$ 354,478    | Allowance by Estimating                                      |
|      | 04.02.00 | Drill and Shoot Foundation                                  | 15,000   | BCY    | \$ 14.87      | \$ 223,061    | 5% Allowance by Estimating                                   |
|      | 04.02.10 | Drill Foundation & Shoot                                    | 15,000   | BCY    | \$ 14.87      | \$ 223,061    | Drill, Shoot, Explosives, Monitoring                         |
|      | 04.02.20 | Load, Haul, Stockpile - Shot Rock                           | -        | BCY    | \$ -          | \$ -          | Included Below                                               |
|      | 04.03.00 | Dam Foundation Excavation                                   | 300,000  | BCY    | \$ 11.84      | \$ 3,551,741  |                                                              |
|      | 04.03.10 | Load, Haul, Stockpile - Top Loading                         | 300,000  | BCY    | \$ 11.84      | \$ 3,551,741  |                                                              |
|      | 04.03.20 | Load, Haul, Stockpile - Scraper                             | -        | BCY    | \$ -          | \$ -          | Not Anticipated                                              |
|      | 04.05.00 | Dewatering allowance                                        | 8        | Months | \$ 35,000.00  | \$ 280,000    | Allowance                                                    |
| 05   | 05.00.00 | FOUNDATION PREPARATION - BENEATH CORE                       |          |        |               | \$ 5,516,082  |                                                              |
|      | 05.01.00 | Initial Foundation Cleaning - Core                          | 16,600   | SY     | \$ 25.63      | \$ 425,485    |                                                              |
|      | 05.01.10 | Initial foundation core cleanup                             | 16,600   | SY     | \$ 25.63      | \$ 425,485    |                                                              |
|      | 05.02.00 | Final Foundation Cleaning - Core                            | 20,750   | SY     | \$ 34.36      | \$ 712,976    |                                                              |
|      | 05.02.10 | Final foundation core cleanup                               | 20,750   | SY     | \$ 34.36      | \$ 712,976    |                                                              |
|      | 05.03.00 | Dental Excavation                                           | 2,200    | CY     | \$ 26.30      | \$ 57,858     |                                                              |
|      | 05.03.10 | Dental excavations                                          | 2,200    | CY     | \$ 26.30      | \$ 57,858     |                                                              |
|      | 05.04.00 | Dental Concrete                                             | 2,200    | CY     | \$ 528.29     | \$ 1,162,243  |                                                              |
|      | 05.05.00 | Backfill Concrete                                           | 4,600    | CY     | \$ 408.19     | \$ 1,877,652  |                                                              |
|      | 05.06.00 | Shaping Excavations                                         | 350      | CY     | \$ 27.55      | \$ 9,643      |                                                              |
|      | 05.07.00 | Slush Grout                                                 | 5,000    | Sacks  | \$ 254.04     | \$ 1,270,225  |                                                              |
| 06   | 06.00.00 | GROUTING                                                    |          |        |               | \$ 20,648,313 |                                                              |
|      | 06.03.00 | Grout Cut Off Wall                                          | 1,615    | CY     | \$ 600.70     | \$ 970,127    |                                                              |
|      | 06.03.10 | Excavation                                                  | 1,615    | CY     | \$ 21.46      | \$ 34,661     |                                                              |
|      | 06.03.02 | Concrete                                                    | 1,615    | CY     | \$ 579.24     | \$ 935,466    |                                                              |
|      | 06.04.00 | Curtain Grouting - Includes Stitch and Fans                 | 81,300   | LF     | \$ 189.64     | \$ 15,417,450 | Includes Primary, Secondary, Tertiary, HOH, Stitch, and Fans |
|      | 06.04.10 | Drill setup for all holes                                   | 894      | ea.    | \$ 1,000.00   | \$ 894,000    |                                                              |
|      | 06.04.20 | Drill curtain grout holes                                   | 81,300   | lft    | \$ 90.00      | \$ 7,317,000  |                                                              |
|      | 06.04.30 | Redrill grout holes                                         | 8,130    | lft    | \$ 90.00      | \$ 731,700    | Assume 10% to be redrilled                                   |
|      | 06.04.40 | Hookup to grout holes and grout nipples                     | 4,065    | ea.    | \$ 150.00     | \$ 609,750    | 1 x hookup every 20'                                         |
|      | 06.04.50 | Mix and inject portland cement grout                        | 33,225   | sack   | \$ 140.00     | \$ 4,651,500  |                                                              |
|      | 06.04.60 | Perform hydraulic conductivity tests                        | 894      | ea.    | \$ 1,030.00   | \$ 920,820    |                                                              |
|      | 06.04.70 | Verification Holes                                          | 1,626    | LF     | \$ 180.00     | \$ 292,680    |                                                              |
|      | 06.05.00 | Consolidation Grouting                                      | 20,000   | LF     | \$ 185.11     | \$ 3,702,260  |                                                              |
|      | 06.05.10 | Drill setup for all holes                                   | 666      | ea.    | \$ 750.00     | \$ 499,500    |                                                              |
|      | 06.05.20 | Drill curtain grout holes                                   | 20,000   | lft    | \$ 77.50      | \$ 1,550,000  |                                                              |
|      | 06.05.30 | Redrill grout holes                                         | 2,000    | lft    | \$ 77.50      | \$ 155,000    | Assume 10% to be redrilled                                   |
|      | 06.05.40 | Hookup to grout holes and grout nipples                     | 667      | ea.    | \$ 150.00     | \$ 100,000    | 1 x hookup every 20'                                         |
|      | 06.05.50 | Mix and inject portland cement grout                        | 9,984    | sack   | \$ 140.00     | \$ 1,397,760  | Allow 5 hours per hole                                       |
|      | 06.05.60 | Perform hydraulic conductivity tests                        | -        | ea.    | \$ 1,030.00   | \$ -          |                                                              |
|      | 06.05.70 | Verification Holes                                          | -        | LF     | \$ 180.00     | \$ -          |                                                              |
|      | 06.06.00 | Type III Cement                                             | 2,031    | Tons   | \$ 275.00     | \$ 558,476    |                                                              |
| 07   | 07.00.00 | FOUNDATION PREPARATION - BENEATH SHELL                      |          |        |               | \$ 257,164    |                                                              |
|      | 07.01.00 | Foundation Cleaning - Shell                                 | 64,800   | SY     | \$ 3.97       | \$ 257,164    |                                                              |
|      | 07.01.10 | Dam shell cleanup                                           | 64,800   | SY     | \$ 3.97       | \$ 257,164    |                                                              |
| 08   | 08.00.00 | FOUNDATION DRAINAGE                                         |          |        |               | \$ 387,430    |                                                              |
|      | 08.01.00 | Furnish and Install Foundation Drain Pipe                   | 2,270    | LF     | \$ 134.62     | \$ 305,583    | 6" Pipe                                                      |
|      | 08.02.00 | Furnish and Install Inspection Well                         | 2        | EA     | \$ 20,461.80  | \$ 40,924     |                                                              |
|      | 08.03.00 | Furnish and Install Weir Vault                              | 2        | EA     | \$ 20,461.80  | \$ 40,924     |                                                              |
| 09   | 09.00.00 | ROCK BORROW AREA - DEVELOP, PROCESSING, AND RESTORATION     |          |        |               | \$ 2,113,183  |                                                              |
|      | 09.01.00 | Strip/Overburden/Waste to Stockpile                         | -        | BCY    | \$ -          | \$ -          | Included with Main Dam                                       |
|      | 09.02.00 | Drill, Blast Borrow, Excavate to Crusher and Riprap Process | 28,930   | BCY    | \$ 9.70       | \$ 280,640    |                                                              |
|      | 09.02.10 | Drill and Blast                                             | 28,930   | BCY    | \$ 5.57       | \$ 161,211    |                                                              |
|      | 09.02.11 | Allowance for Waste                                         | 4,340    | BCY    | \$ 5.57       | \$ 24,182     |                                                              |

DIRECT COST LEVEL 3 SUMMARY

| Item | Sub Item | Description                                                                                                                                    | Quantity | Unit | Unit Rate     | Total         | Comment                                                                              |
|------|----------|------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|---------------|---------------|--------------------------------------------------------------------------------------|
|      | 09.02.20 | Excavate to Riprap and Crusher Plants                                                                                                          | 28,930   | ECY  | \$ 3.29       | \$ 95,248     |                                                                                      |
|      | 09.03.00 | Zone 4A, 4B, 7A Processing                                                                                                                     | 6,700    | ECY  | \$ 32.00      | \$ 214,400    | See Borrow Estimate                                                                  |
|      | 09.03.10 | Prep Site                                                                                                                                      |          |      |               |               |                                                                                      |
|      | 09.03.20 | Crusher Mob and Set Up                                                                                                                         |          |      |               |               |                                                                                      |
|      | 09.03.30 | Crush Primary                                                                                                                                  |          |      |               |               |                                                                                      |
|      | 09.03.40 | Crush Secondary                                                                                                                                |          |      |               |               |                                                                                      |
|      | 09.03.50 | Screening                                                                                                                                      |          |      |               |               |                                                                                      |
|      | 09.03.60 | Crusher Demob                                                                                                                                  |          |      |               |               |                                                                                      |
|      | 09.04.00 | Riprap Processing                                                                                                                              | 22,230   | ECY  | \$ 30.00      | \$ 666,900    | See Borrow Estimate                                                                  |
|      | 09.04.10 | Processing Riprap                                                                                                                              | 22,230   | ECY  | \$ 30.00      | \$ 666,900    |                                                                                      |
|      | 09.06.00 | Replace Overburden from Stockpile                                                                                                              | 49,000   | ECY  | \$ 7.62       | \$ 373,291    | Backfill Borrow area using material from stockpile, allow 100% of stripping material |
|      | 09.06.10 | Load and haul to site stockpile, 0.25 mile haul                                                                                                | 53,900   | LCY  | \$ 6.93       | \$ 373,291    |                                                                                      |
| 10   | 10.00.00 | EMBANKMENT                                                                                                                                     |          |      |               | \$ 24,353,611 |                                                                                      |
|      | 10.01.00 | Furnish and Install Zone 1 - Core                                                                                                              | 138,020  | ECY  | \$ 24.14      | \$ 3,331,656  |                                                                                      |
|      | 10.01.10 | Strip Borrow Areas and Haul to Waste - 0.25 Mile Haul                                                                                          | 18,000   | BCY  | \$ 5.53       | \$ 99,529     | Per MBD, Scrapers                                                                    |
|      | 10.01.20 | Load, Haul, and Stockpile - Top Loading - 0.25 Mile Haul                                                                                       | 162,376  | BCY  | \$ 8.82       | \$ 1,431,941  | Per MBD, Top Loading Equipment                                                       |
|      | 10.01.30 | Moisture Condition At Stockpile                                                                                                                | 162,376  | ECY  | \$ 2.82       | \$ 457,952    | Disc, Blade, Water Truck                                                             |
|      | 10.01.40 | Load, Haul, and Compact Contact Zone - Scraper - 0.75 Mile Haul                                                                                | 6,901    | ECY  | \$ 17.39      | \$ 119,990    | 1st Lift - 988 Rubber Tire                                                           |
|      | 10.01.50 | Load, Haul, and Compact Wide Zone - Scraper - 0.75 Mile Haul                                                                                   | 103,515  | ECY  | \$ 8.86       | \$ 916,682    | Load and Haul from Stockpile to Dam                                                  |
|      | 10.01.60 | Load, Haul, and Compact Narrow Zone - Scraper - 0.75 Mile Haul                                                                                 | 27,604   | ECY  | \$ 11.07      | \$ 305,561    |                                                                                      |
|      | 10.02.00 | Purchase, Haul and Place - Zone 2 - Filter                                                                                                     | 36,513   | ECY  | \$ 149.62     | \$ 5,463,166  | CY to Tons - 1.7, Waste & Overbuild 20%                                              |
|      | 10.02.10 | Purchase processed material from quarry - Filter                                                                                               | 74,486   | Tons | \$ 40.14      | \$ 2,989,615  |                                                                                      |
|      | 10.02.20 | Haul material to stockpile, 65 mile haul                                                                                                       | 74,486   | Tons | \$ 21.30      | \$ 1,586,541  |                                                                                      |
|      | 10.02.30 | Drive Over Unloaders & Stockpile Support                                                                                                       | 36,513   | ECY  | \$ 5.29       | \$ 193,098    |                                                                                      |
|      | 10.02.40 | Load, Haul, and Compact Blanket - Top Loading - 0.5 Mile Haul                                                                                  | 20,068   | ECY  | \$ 14.36      | \$ 288,205    |                                                                                      |
|      | 10.02.50 | Load, Haul, and Compact Chimney - Top Loading - 0.5 Mile Haul                                                                                  | 16,445   | ECY  | \$ 24.67      | \$ 405,707    |                                                                                      |
|      | 10.03.00 | Purchase, Haul and Place - Zone 3 - Drain                                                                                                      | 26,700   | ECY  | \$ 143.20     | \$ 3,823,539  | CY to Tons - 1.7, Waste & Overbuild 20%                                              |
|      | 10.03.10 | Purchase processed material from quarry - Drain                                                                                                | 54,468   | Tons | \$ 33.94      | \$ 1,848,712  |                                                                                      |
|      | 10.03.20 | Haul material from quarry to site stockpile/fill location, 75 mile haul                                                                        | 54,468   | Tons | \$ 24.30      | \$ 1,323,572  |                                                                                      |
|      | 10.03.30 | Drive Over Unloaders & Stockpile Support                                                                                                       | 26,700   | ECY  | \$ 5.29       | \$ 141,204    |                                                                                      |
|      | 10.03.40 | Load, Haul, and Compact Blanket - Top Loading - 0.5 Mile Haul                                                                                  | 14,420   | ECY  | \$ 14.36      | \$ 207,096    | Filter Rate                                                                          |
|      | 10.03.50 | Load, Haul, and Compact Chimney - Top Loading - 0.5 Mile Haul                                                                                  | 12,280   | ECY  | \$ 24.67      | \$ 302,954    | Filter Rate                                                                          |
|      | 10.06.00 | Purchase, Haul and Place - Zone 8 - Fine Transition - Saddles                                                                                  | 25,950   | ECY  | \$ 149.63     | \$ 3,882,883  |                                                                                      |
|      | 10.06.10 | Purchase processed material from quarry - Offsite Transition                                                                                   | 52,938   | Tons | \$ 40.14      | \$ 2,124,766  | At Filter Rate                                                                       |
|      | 10.06.20 | Haul material to stockpile, 65 mile haul                                                                                                       | 52,938   | Tons | \$ 21.30      | \$ 1,127,579  | At Filter Rate                                                                       |
|      | 10.06.30 | Drive Over Unloaders & Stockpile Support                                                                                                       | 25,950   | ECY  | \$ 5.29       | \$ 137,238    | At Filter Rate                                                                       |
|      | 10.06.40 | Load, Haul, and Compact Blanket - Top Loading - 1.0 Mile Haul                                                                                  | 14,250   | ECY  | \$ 14.36      | \$ 204,655    | At Filter Rate                                                                       |
|      | 10.06.50 | Load, Haul, and Compact Chimney - Top Loading - 1.0 Mile Haul                                                                                  | 11,700   | ECY  | \$ 24.67      | \$ 288,645    | At Filter Rate                                                                       |
|      | 10.08.00 | Furnish and Install Zone - 9 Random                                                                                                            | 647,850  | ECY  | \$ 10.84      | \$ 7,019,641  |                                                                                      |
|      | 10.08.10 | 29 Strip/Overburden/Surplus                                                                                                                    | 80,000   | BCY  | \$ 4.67       | \$ 373,234    |                                                                                      |
|      | 10.08.20 | Blasting operations                                                                                                                            | -        | BCY  | \$ -          | \$ -          | Not Required                                                                         |
|      | 10.08.30 | Sorting and Raking                                                                                                                             | 647,850  | ECY  | \$ 1.80       | \$ 1,163,655  |                                                                                      |
|      | 10.08.40 | Load, Haul, and Compact - Scraper - 0.5 Mile Haul                                                                                              | 270,000  | ECY  | \$ 6.52       | \$ 1,761,108  | From excavation stockpile to dam                                                     |
|      | 10.08.50 | Load, Haul, and Compact - Scraper - 1.0 Mile Haul                                                                                              | 188,925  | ECY  | \$ 8.09       | \$ 1,527,804  | No stockpiling required, direct haul                                                 |
|      | 10.08.60 | Load, Haul, and Compact - Top Loading - 1.0 Mile Haul                                                                                          | 188,925  | ECY  | \$ 11.61      | \$ 2,193,840  | No stockpiling required, direct haul                                                 |
|      | 10.09.00 | Produce, Haul and Place - Zone 7A - Bedding - Saddles                                                                                          | 6,700    | ECY  | \$ 14.36      | \$ 96,224     |                                                                                      |
|      | 10.09.10 | 7A - Bedding Material Produced On Site                                                                                                         | 13,668   | Tons | \$ -          | \$ -          |                                                                                      |
|      | 10.09.20 | Load, Haul, and Compact - Top Loading - 12 Mile Haul                                                                                           | 6,700    | ECY  | \$ 14.36      | \$ 96,224     | At Filter Rate                                                                       |
|      | 10.10.00 | Produce, Haul and Place - Zone 7B - Riprap                                                                                                     | 21,200   | ECY  | \$ 33.13      | \$ 702,378    |                                                                                      |
|      | 10.10.10 | Blasting operations                                                                                                                            | -        | ECY  | \$ -          | \$ -          | Included Above in 09                                                                 |
|      | 10.10.20 | Excavate to Riprap Processing                                                                                                                  | -        | ECY  | \$ -          | \$ -          | Included Above in 09                                                                 |
|      | 10.10.30 | Process Riprap                                                                                                                                 | -        | ECY  | \$ -          | \$ -          | Not required                                                                         |
|      | 10.10.40 | Load, Haul, Place Riprap - Top Loading - 12 Mile Haul                                                                                          | 21,200   | ECY  | \$ 33.13      | \$ 702,378    | Included Above in 09                                                                 |
|      | 10.11.00 | Groin Protection at Saddles                                                                                                                    | 1,030    | ECY  | \$ 33.13      | \$ 34,125     |                                                                                      |
|      | 10.11.10 | Blasting operations                                                                                                                            | -        | LCY  | \$ -          | \$ -          | Included Above in 09                                                                 |
|      | 10.11.20 | Excavate to Riprap Processing                                                                                                                  | -        | LCY  | \$ -          | \$ -          | Included Above in 09                                                                 |
|      | 10.11.30 | Process Riprap                                                                                                                                 | -        | LCY  | \$ -          | \$ -          | Not required                                                                         |
|      | 10.11.40 | Load, Haul, Place Riprap - Top Loading - 12 Mile Haul                                                                                          | 1,030    | LCY  | \$ 33.13      | \$ 34,125     | At Riprap Rate                                                                       |
| 11   | 11.00.00 | INSTRUMENTATION AND TELEMTRY                                                                                                                   |          |      |               | \$ 635,000    |                                                                                      |
|      | 11.01.00 | Instrumentation/Telemetry: Instrumentation/Telemetry (piezometers, settlement monitors (survey monuments), seismographs, and slope indicators) | 1        | LS   | \$ 635,000.00 | \$ 635,000    | Allowance                                                                            |
|      | 11.01.01 | Vibrating Wire Piezometers                                                                                                                     | 5        | EA   | \$ 20,000.00  | \$ 100,000    | Allowance for redundant Installation                                                 |
|      | 11.01.02 | Open Standpipe Piezometer                                                                                                                      | 2        | EA   | \$ 12,000.00  | \$ 24,000     |                                                                                      |
|      | 11.01.03 | Vibrating Wire Weir Monitors                                                                                                                   | 2        | EA   | \$ 15,000.00  | \$ 30,000     |                                                                                      |
|      | 11.01.04 | Survey Monuments                                                                                                                               | 8        | EA   | \$ 2,000.00   | \$ 16,000     |                                                                                      |
|      | 11.01.11 | Wireless Stations                                                                                                                              | 1        | EA   | \$ 15,000.00  | \$ 15,000     | 4 Devices per Station                                                                |
|      | 11.01.12 | Central Monitoring Station                                                                                                                     | 1        | EA   | \$ 300,000.00 | \$ 300,000    |                                                                                      |
|      | 11.01.13 | Wireless and Solar Transmission Station                                                                                                        | 1        | EA   | \$ 100,000.00 | \$ 100,000    | Wireless Signals will be sent to HC Control Building                                 |
|      | 11.01.14 | Conduit and Cable Devices                                                                                                                      | 2,000    | LF   | \$ 25.00      | \$ 50,000     |                                                                                      |
| 12   | 12.00.00 | SITE RESTORATION                                                                                                                               |          |      |               | \$ 1,310,470  |                                                                                      |
|      | 12.01.00 | Seeding                                                                                                                                        | 170,000  | SF   | \$ 0.43       | \$ 72,970     | Allowance                                                                            |
|      | 12.02.00 | Fencing                                                                                                                                        | 500      | LF   | \$ 75.00      | \$ 37,500     | Allowance                                                                            |
|      | 12.03.00 | Best Management Practices                                                                                                                      | 1        | LS   | \$ 600,000.00 | \$ 600,000    | Allowance                                                                            |
|      | 12.04.00 | Rock Check Dams                                                                                                                                | 1        | LS   | \$ 300,000.00 | \$ 300,000    | Allowance                                                                            |

DIRECT COST LEVEL 3 SUMMARY

| Item              | Sub Item | Description                  | Quantity | Unit | Unit Rate     | Total         | Comment   |
|-------------------|----------|------------------------------|----------|------|---------------|---------------|-----------|
|                   | 12.05.00 | Drainage - Inlets, Culverts  | 1        | LS   | \$ 300,000.00 | \$ 300,000    | Allowance |
| 15                | 15.00.00 | ALLOWANCE FOR UNLISTED ITEMS |          |      |               | \$ 3,135,846  |           |
|                   | 15.01.00 | Allowance for Unlisted Items | 5.0%     | %    | \$ 62,716,916 | \$ 3,135,846  |           |
| Total Direct Cost |          |                              | 0.90     | MCY  | \$ 72.85      | \$ 65,852,762 |           |

Sites Reservoir: 25 - Other Saddle Dams and Spillway  
 30% Cost Estimate  
 Sites, CA

Cost Estimate  
 AACEI Class 3  
 February 28, 2025

# **TOTAL ESTIMATE SUMMARY**

|                   |            |
|-------------------|------------|
| Total Direct Cost | 91,398,059 |
|-------------------|------------|

## **TOTAL DIRECT COST BEFORE CONTRACTOR INDIRECT COSTS 91,398,059**

|                              |       |            |
|------------------------------|-------|------------|
| Mobilization                 | 5.0%  | 4,569,903  |
| Field Overhead Costs (GC&GR) | 17.0% | 16,314,554 |
| Insurance                    | 2.0%  | 2,245,650  |
| Bonds                        | 0.6%  | 687,169    |

|                                 |            |
|---------------------------------|------------|
| Total Contractor Indirect Costs | 23,817,276 |
|---------------------------------|------------|

## **TOTAL CONTACTOR COSTS 115,215,335**

|                            |       |            |
|----------------------------|-------|------------|
| Home Office Overhead (G&A) | 6.5%  | 7,488,997  |
| GC Profit                  | 10.0% | 12,270,433 |

|                                      |            |
|--------------------------------------|------------|
| Total Contractor Overhead and Profit | 19,759,430 |
|--------------------------------------|------------|

## **TOTAL CONSTRUCTION COST BEFORE CONTINGENCIES 134,974,765**

|                            |       |            |
|----------------------------|-------|------------|
| Contingencies              |       |            |
| Design Contingencies       | 17.6% | 23,755,559 |
| Construction Contingencies | 15.0% | 23,809,549 |

|                             |            |
|-----------------------------|------------|
| Total Contingency Allowance | 47,565,108 |
|-----------------------------|------------|

## **TOTAL COST BEFORE ESCALATION 182,539,873**

|                                         |           |    |   |
|-----------------------------------------|-----------|----|---|
| Escalation to Mid-point of Construction | By Others | 0% | - |
|-----------------------------------------|-----------|----|---|

## **RECOMMENDED CONSTRUCTION BUDGET 182,539,873**

|                    |           |      |   |
|--------------------|-----------|------|---|
| Non-Contract Costs | By Others | 0.0% | - |
|--------------------|-----------|------|---|

## **TOTAL ESTIMATE 182,539,873**

DIRECT COST LEVEL 2 SUMMARY

| Item | Sub Item | Description                                                  | UoM    | 30% Cost Estimate |           |            |
|------|----------|--------------------------------------------------------------|--------|-------------------|-----------|------------|
|      |          |                                                              |        | Qty               | Unit Rate | Total      |
| 01   | 01.00.00 | PRECONSTRUCTION ACTIVITIES                                   |        |                   |           | 7,428,231  |
|      | 01.01.00 | Demolition Work                                              | LS     | -                 |           | Elsewhere  |
|      | 01.02.00 | Clearing and Grubbing                                        | ACRE   | 49                | 10,241    | 501,806    |
|      | 01.03.00 | Reservoir Clearing                                           | ACRE   | -                 |           | -          |
|      | 01.04.00 | Erosion and Sediment Control                                 | ACRE   | 49                | 107,999   | 5,291,935  |
|      | 01.05.00 | Developing haul routes - Haul routes inside reservoir        | ACRES  | 49                | 11,140    | 545,857    |
|      | 01.06.00 | Developing haul routes - Haul routes outside reservoir       | ACRES  | 48                | 11,140    | 534,717    |
|      | 01.07.00 | Developing Stockpile and Staging Areas                       | ACRES  | 32                | 17,310    | 553,916    |
| 04   | 04.00.00 | FOUNDATION EXCAVATION                                        |        |                   |           | 6,824,338  |
|      | 04.01.00 | Topsoil Salvage                                              | BCY    | 74,000            | 6         | 467,267    |
|      | 04.02.00 | Drill and Shoot Foundation                                   | BCY    | 24,150            | 15        | 368,138    |
|      | 04.03.00 | Dam Foundation Excavation                                    | BCY    | 483,000           | 12        | 5,708,934  |
|      | 04.05.00 | Dewatering allowance                                         | Months | 8                 | 35,000    | 280,000    |
| 05   | 05.00.00 | FOUNDATION PREPARATION - BENEATH CORE                        |        |                   |           | 5,779,544  |
|      | 05.01.00 | Initial Foundation Cleaning - Core                           | SY     | 17,400            | 26        | 448,485    |
|      | 05.02.00 | Final Foundation Cleaning - Core                             | SY     | 21,750            | 34        | 747,474    |
|      | 05.03.00 | Dental Excavation                                            | CY     | 2,300             | 25        | 57,858     |
|      | 05.04.00 | Dental Concrete                                              | CY     | 2,300             | 532       | 1,222,637  |
|      | 05.05.00 | Backfill Concrete                                            | CY     | 4,800             | 407       | 1,954,718  |
|      | 05.06.00 | Shaping Excavations                                          | CY     | 350               | 28        | 9,643      |
|      | 05.07.00 | Slush Grout                                                  | Sacks  | 5,250             | 255       | 1,338,728  |
| 06   | 06.00.00 | GROUTING                                                     |        |                   |           | 20,660,234 |
|      | 06.01.00 | Grout Cap                                                    | CY     | -                 |           | -          |
|      | 06.02.00 | Grout Cap Anchors                                            | LF     | -                 |           | -          |
|      | 06.03.00 | Grout Cut Off Wall                                           | CY     | 1,450             | 601       | 872,170    |
|      | 06.04.00 | Curtain Grouting - Includes Stich and Fans                   | LF     | 78,750            | 192       | 15,088,955 |
|      | 06.05.00 | Consolidation Grouting                                       | LF     | 22,300            | 185       | 4,129,705  |
|      | 06.06.00 | Type III Cement                                              | Tons   | 2,071             | 275       | 569,404    |
| 07   | 07.00.00 | FOUNDATION PREPARATION - BENEATH SHELL                       |        |                   |           | 385,746    |
|      | 07.01.00 | Foundation Cleaning - Shell                                  | SY     | 97,200            | 4         | 385,746    |
| 08   | 08.00.00 | FOUNDATION DRAINAGE                                          |        |                   |           | 636,493    |
|      | 08.01.00 | Furnish and Install Foundation Drain Pipe                    | LF     | 3,500             | 135       | 472,494    |
|      | 08.02.00 | Furnish and Install Foundation Drain Manholes                | EA     | 4                 | 20,500    | 81,999     |
|      | 08.03.00 | Furnish and Install Inspection Well                          | EA     | 4                 | 20,500    | 81,999     |
| 09   | 09.00.00 | ROCK BORROW AREA - DEVELOP, PROCESSING, AND RESTORATION      |        |                   |           | 2,748,474  |
|      | 09.01.00 | Strip/Overburden/Waste to Stockpile                          | BCY    | -                 |           | -          |
|      | 09.02.00 | Drill, Blast, Excavate to Crusher and Riprap Process         | BCY    | 38,590            | 10        | 375,149    |
|      | 09.03.00 | Zone 4A, 4B, Zone 7A Processing                              | ECY    | 8,940             | 32        | 286,080    |
|      | 09.04.00 | Riprap and Groin Processing                                  | ECY    | 29,650            | 30        | 889,500    |
|      | 09.05.00 | Removal of Excess Sand/Siltstone                             | BCY    | -                 |           | -          |
|      | 09.06.00 | Replace Overburden from Stockpile                            | ECY    | 61,000            | 8         | 462,170    |
|      | 09.07.00 | Topsoil Replacement                                          | ECY    | 74,000            | 10        | 735,575    |
|      | 09.08.00 | Seeding                                                      | SF     | -                 |           | -          |
| 10   | 10.00.00 | EMBANKMENT                                                   |        |                   |           | 28,912,800 |
|      | 10.01.00 | Furnish and Install Zone 1 - Core                            | ECY    | 150,280           | 24        | 3,627,427  |
|      | 10.02.00 | Purchase, Haul and Place - Zone 2 - Filter                   | ECY    | 43,585            | 150       | 6,530,565  |
|      | 10.03.00 | Purchase, Haul and Place - Zone 3 - Drain                    | ECY    | 31,000            | 143       | 4,443,387  |
|      | 10.04.00 | Produce, Haul and Place - Zone 4A - Fine Transition          | ECY    | -                 |           | -          |
|      | 10.05.00 | Produce, Haul and Place - Zone 4B - Coarse Transition        | ECY    | -                 |           | -          |
|      | 10.06.00 | Produce, Haul and Place - Zone 8 - Fine Transition - Saddles | ECY    | 29,800            | 150       | 4,465,021  |
|      | 10.07.00 | Furnish and Install Zone 5&6 Sand/Siltstone - Rockfill       | ECY    | -                 |           | -          |
|      | 10.08.00 | Furnish and Install Zone - 9 Random                          | ECY    | 834,552           | 10        | 8,749,417  |
|      | 10.09.00 | Produce, Haul and Place - Zone 7A - Bedding - Saddles        | ECY    | 8,940             | 14        | 127,925    |
|      | 10.10.00 | Produce, Haul and Place - Zone 7B - Riprap                   | ECY    | 27,460            | 33        | 897,482    |
|      | 10.11.00 | Produce, Haul and Place - Groin Protection - Saddles         | ECY    | 2,190             | 33        | 71,576     |
| 11   | 11.00.00 | INSTRUMENTATION AND TELEMETRY                                |        |                   |           | 843,000    |

DIRECT COST LEVEL 2 SUMMARY

| Item              | Sub Item | Description                                                                                                                                    | UoM | 30% Cost Estimate |           |            |
|-------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------|-----------|------------|
|                   |          |                                                                                                                                                |     | Qty               | Unit Rate | Total      |
| 01                | 01.00.00 | PRECONSTRUCTION ACTIVITIES                                                                                                                     |     |                   |           | 7,428,231  |
|                   | 11.01.00 | Instrumentation/Telemetry: Instrumentation/Telemetry (piezometers, settlement monitors (survey monuments), seismographs, and slope indicators) | LS  | 1                 | 843,000   | 843,000    |
| 12                | 12.00.00 | SITE RESTORATION                                                                                                                               |     |                   |           | 2,844,899  |
|                   | 12.01.00 | Seeding                                                                                                                                        | SF  | 430,000           | 0         | 184,899    |
|                   | 12.02.00 | Fencing                                                                                                                                        | LF  | 800               | 75        | 60,000     |
|                   | 12.03.00 | Best Management Practices                                                                                                                      | LS  | 1                 | 1,400,000 | 1,400,000  |
|                   | 12.04.00 | Rock Check Dams                                                                                                                                | LS  | 1                 | 600,000   | 600,000    |
|                   | 12.05.00 | Drainage - Inlets, Culverts                                                                                                                    | LS  | 1                 | 600,000   | 600,000    |
| 13                | 13.00.00 | RIM GROUTING                                                                                                                                   |     |                   |           | 3,740,000  |
|                   | 13.01.00 | Rim Grouting                                                                                                                                   | LF  | 18,700            | 200       | 3,740,000  |
| 14                | 14.00.00 | SPILLWAY                                                                                                                                       |     |                   |           | 6,243,627  |
|                   | 14.01.00 | Spillway Approach Channel Excavation                                                                                                           | CY  | 25,080            | 16        | 413,816    |
|                   | 14.02.00 | Spillway and Stilling Basin Slab, reinforced concrete                                                                                          | CY  | 1,038             | 957       | 993,739    |
|                   | 14.03.00 | Spillway and Stilling Basin walls, reinforced concrete                                                                                         | CY  | 585               | 2,059     | 1,204,807  |
|                   | 14.04.00 | Spillway Stilling Basin Baffles                                                                                                                | CY  | 11                | 1,990     | 21,885     |
|                   | 14.05.00 | Cutoff walls under weir and stilling basin                                                                                                     | CY  | 147               | 1,820     | 267,603    |
|                   | 14.06.00 | Spillway Wing walls                                                                                                                            | CY  | 1,489             | 1,787     | 2,660,744  |
|                   | 14.07.00 | Spillway Ogee Weir                                                                                                                             | CY  | 329               | 1,694     | 557,176    |
|                   | 14.08.00 | Backfill at Spillway                                                                                                                           | CY  | 2,180             | 30        | 65,399     |
|                   | 14.09.00 | Riprap and Bedding at Spillway                                                                                                                 | CY  | 115               | 176       | 20,240     |
|                   | 14.10.00 | Drainage                                                                                                                                       | CY  | 41                | 105       | 4,305      |
|                   | 14.11.00 | Drainage - 6" PVC Pipe                                                                                                                         | LF  | 357               | 95        | 33,914     |
| 15                | 15.00.00 | ALLOWANCE FOR UNLISTED ITEMS                                                                                                                   |     |                   |           | 4,350,674  |
|                   | 15.01.00 | Allowance for Unlisted Items                                                                                                                   | %   | 5%                |           | 4,350,674  |
| Total Direct Cost |          |                                                                                                                                                |     |                   |           | 91,398,059 |

DIRECT COST LEVEL 3 SUMMARY

| Item | Sub Item | Description                                             | Quantity | Unit   | Unit Rate     | Total         | Comment                                                      |
|------|----------|---------------------------------------------------------|----------|--------|---------------|---------------|--------------------------------------------------------------|
| 01   | 01.00.00 | PRECONSTRUCTION ACTIVITIES                              | 1        | LS     | \$ 7,428,231  | \$ 7,428,231  |                                                              |
|      | 01.01.00 | Demolition Work                                         | -        | LS     |               | Elsewhere     | Included in Demo Estimate                                    |
|      | 01.02.00 | Clearing and Grubbing                                   | 49       | ACRE   | \$ 10,240.95  | \$ 501,806    | Heavy vegetation removal                                     |
|      | 01.03.00 | Reservoir Clearing                                      | -        | ACRE   | \$ -          | \$ -          | Included in Demo Estimate                                    |
|      | 01.04.00 | Erosion and Sediment Control                            | 49       | ACRE   | \$ 107,998.67 | \$ 5,291,935  |                                                              |
|      | 01.05.00 | Developing haul routes - Haul routes inside reservoir   | 49       | ACRES  | \$ 11,139.94  | \$ 545,857    |                                                              |
|      | 01.06.00 | Developing haul routes - Haul routes outside reservoir  | 48       | ACRES  | \$ 11,139.94  | \$ 534,717    |                                                              |
|      | 01.07.00 | Developing Stockpile and Staging Areas                  | 32       | ACRES  | \$ 17,309.86  | \$ 553,916    |                                                              |
| 04   | 04.00.00 | FOUNDATION EXCAVATION                                   |          | BCY    |               | \$ 6,824,338  |                                                              |
|      | 04.01.00 | Topsoil Salvage                                         | 74,000   | BCY    | \$ 6.31       | \$ 467,267    | Allowance by Estimating                                      |
|      | 04.02.00 | Drill and Shoot Foundation                              | 24,150   | BCY    | \$ 15.24      | \$ 368,138    | 5% Allowance by Estimating                                   |
|      | 04.02.10 | Drill Foundation & Shoot                                | 24,150   | BCY    | \$ 15.24      | \$ 368,138    | Drill, Shoot, Explosives, Monitoring                         |
|      | 04.02.20 | Load, Haul, Stockpile - Shot Rock                       | -        | BCY    | \$ -          | \$ -          | Included Below                                               |
|      | 04.03.00 | Dam Foundation Excavation                               | 483,000  | BCY    | \$ 11.82      | \$ 5,708,934  |                                                              |
|      | 04.03.10 | Load, Haul, Stockpile - Top Loading                     | 483,000  | BCY    | \$ 11.82      | \$ 5,708,934  |                                                              |
|      | 04.03.20 | Load, Haul, Stockpile - Scraper                         | -        | BCY    | \$ -          | \$ -          | Not Anticipated                                              |
|      | 04.05.00 | Dewatering allowance                                    | 8        | Months | \$ 35,000.00  | \$ 280,000    | Allowance                                                    |
| 05   | 05.00.00 | FOUNDATION PREPARATION - BENEATH CORE                   |          |        |               | \$ 5,779,544  |                                                              |
|      | 05.01.00 | Initial Foundation Cleaning - Core                      | 17,400   | SY     | \$ 25.77      | \$ 448,485    |                                                              |
|      | 05.01.10 | Initial foundation core cleanup                         | 17,400   | SY     | \$ 25.77      | \$ 448,485    |                                                              |
|      | 05.02.00 | Final Foundation Cleaning - Core                        | 21,750   | SY     | \$ 34.37      | \$ 747,474    |                                                              |
|      | 05.02.10 | Final foundation core cleanup                           | 21,750   | SY     | \$ 34.37      | \$ 747,474    |                                                              |
|      | 05.03.00 | Dental Excavation                                       | 2,300    | CY     | \$ 25.16      | \$ 57,858     |                                                              |
|      | 05.03.10 | Dental excavations                                      | 2,300    | CY     | \$ 25.16      | \$ 57,858     |                                                              |
|      | 05.04.00 | Dental Concrete                                         | 2,300    | CY     | \$ 531.58     | \$ 1,222,637  |                                                              |
|      | 05.05.00 | Backfill Concrete                                       | 4,800    | CY     | \$ 407.23     | \$ 1,954,718  |                                                              |
|      | 05.06.00 | Shaping Excavations                                     | 350      | CY     | \$ 27.55      | \$ 9,643      |                                                              |
|      | 05.07.00 | Slush Grout                                             | 5,250    | Sacks  | \$ 255.00     | \$ 1,338,728  |                                                              |
| 06   | 06.00.00 | GROUTING                                                |          |        |               | \$ 20,660,234 |                                                              |
|      | 06.03.00 | Grout Cut Off Wall                                      | 1,450    | CY     | \$ 601.50     | \$ 872,170    |                                                              |
|      | 06.03.10 | Excavation                                              | 1,450    | CY     | \$ 21.50      | \$ 31,175     |                                                              |
|      | 06.03.02 | Concrete                                                | 1,450    | CY     | \$ 580.00     | \$ 840,995    |                                                              |
|      | 06.04.00 | Curtain Grouting - Includes Stitch and Fans             | 78,750   | LF     | \$ 191.61     | \$ 15,088,955 | Includes Primary, Secondary, Tertiary, HOH, Stitch, and Fans |
|      | 06.04.10 | Drill setup for all holes                               | 892      | ea.    | \$ 1,000.00   | \$ 892,000    |                                                              |
|      | 06.04.20 | Drill curtain grout holes                               | 78,750   | lft    | \$ 90.00      | \$ 7,087,500  |                                                              |
|      | 06.04.30 | Redrill grout holes                                     | 7,875    | lft    | \$ 90.00      | \$ 708,750    | Assume 10% to be redrilled                                   |
|      | 06.04.40 | Hookup to grout holes and grout nipples                 | 3,938    | ea.    | \$ 150.00     | \$ 590,625    | 1 x hookup every 20'                                         |
|      | 06.04.50 | Mix and inject portland cement grout                    | 32,913   | sack   | \$ 140.00     | \$ 4,607,820  |                                                              |
|      | 06.04.60 | Perform hydraulic conductivity tests                    | 892      | ea.    | \$ 1,030.00   | \$ 918,760    |                                                              |
|      | 06.04.70 | Verification Holes                                      | 1,575    | LF     | \$ 180.00     | \$ 283,500    |                                                              |
|      | 06.05.00 | Consolidation Grouting                                  | 22,300   | LF     | \$ 185.19     | \$ 4,129,705  |                                                              |
|      | 06.05.10 | Drill setup for all holes                               | 743      | ea.    | \$ 750.00     | \$ 557,250    |                                                              |
|      | 06.05.20 | Drill curtain grout holes                               | 22,300   | lft    | \$ 77.50      | \$ 1,728,250  |                                                              |
|      | 06.05.30 | Redrill grout holes                                     | 2,230    | lft    | \$ 77.50      | \$ 172,825    | Assume 10% to be redrilled                                   |
|      | 06.05.40 | Hookup to grout holes and grout nipples                 | 743      | ea.    | \$ 150.00     | \$ 111,500    | 1 x hookup every 20'                                         |
|      | 06.05.50 | Mix and inject portland cement grout                    | 11,142   | sack   | \$ 140.00     | \$ 1,559,880  | Allow 5 hours per hole                                       |
|      | 06.05.60 | Perform hydraulic conductivity tests                    | -        | ea.    | \$ 1,030.00   | \$ -          |                                                              |
|      | 06.05.70 | Verification Holes                                      | -        | LF     | \$ 180.00     | \$ -          |                                                              |
|      | 06.06.00 | Type III Cement                                         | 2,071    | Tons   | \$ 275.00     | \$ 569,404    |                                                              |
| 07   | 07.00.00 | FOUNDATION PREPARATION - BENEATH SHELL                  |          |        |               | \$ 385,746    |                                                              |
|      | 07.01.00 | Foundation Cleaning - Shell                             | 97,200   | SY     | \$ 3.97       | \$ 385,746    |                                                              |
|      | 07.01.10 | Dam shell cleanup                                       | 97,200   | SY     | \$ 3.97       | \$ 385,746    |                                                              |
| 08   | 08.00.00 | FOUNDATION DRAINAGE                                     |          |        |               | \$ 636,493    |                                                              |
|      | 08.01.00 | Furnish and Install Foundation Drain Pipe               | 3,500    | LF     | \$ 135.00     | \$ 472,494    | 6" Pipe                                                      |
|      | 08.02.00 | Furnish and Install Inspection Well                     | 4        | EA     | \$ 20,499.83  | \$ 81,999     |                                                              |
|      | 08.03.00 | Furnish and Install Weir Vault                          | 4        | EA     | \$ 20,499.83  | \$ 81,999     |                                                              |
| 09   | 09.00.00 | ROCK BORROW AREA - DEVELOP, PROCESSING, AND RESTORATION |          |        |               | \$ 2,748,474  |                                                              |
|      | 09.01.00 | Strip/Overburden/Waste to Stockpile                     | -        | BCY    | \$ -          | \$ -          | Included with Main Dam                                       |
|      | 09.01.10 | Strip Topsoil Stockpile                                 | -        | BCY    | \$ -          | \$ -          |                                                              |
|      | 09.01.20 | Remove Overburden                                       | -        | BCY    | \$ 8.88       | \$ -          |                                                              |

DIRECT COST LEVEL 3 SUMMARY

| Item | Sub Item | Description                                                                                                                                    | Quantity | Unit | Unit Rate     | Total        | Comment                                                                              |
|------|----------|------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|---------------|--------------|--------------------------------------------------------------------------------------|
|      | 09.02.00 | Drill, Blast Borrow, Excavate to Crusher and Riprap Process                                                                                    | 38,590   | BCY  | \$ 9.72       | \$ 375,149   |                                                                                      |
|      | 09.02.10 | Drill and Blast                                                                                                                                | 38,590   | BCY  | \$ 5.58       | \$ 215,481   |                                                                                      |
|      | 09.02.11 | Allowance for Waste                                                                                                                            | 5,789    | BCY  | \$ 5.58       | \$ 32,322    |                                                                                      |
|      | 09.02.20 | Excavate to Riprap and Crusher Plants                                                                                                          | 38,590   | ECY  | \$ 3.30       | \$ 127,346   |                                                                                      |
|      | 09.03.00 | Zone 4A, 4B, 7A Processing                                                                                                                     | 8,940    | ECY  | \$ 32.00      | \$ 286,080   | See Borrow Estimate                                                                  |
|      | 09.03.10 | Prep Site                                                                                                                                      |          |      |               |              |                                                                                      |
|      | 09.03.20 | Crusher Mob and Set Up                                                                                                                         |          |      |               |              |                                                                                      |
|      | 09.03.30 | Crush Primary                                                                                                                                  |          |      |               |              |                                                                                      |
|      | 09.03.40 | Crush Secondary                                                                                                                                |          |      |               |              |                                                                                      |
|      | 09.03.50 | Screening                                                                                                                                      |          |      |               |              |                                                                                      |
|      | 09.03.60 | Crusher Demob                                                                                                                                  |          |      |               |              |                                                                                      |
|      | 09.04.00 | Riprap Processing                                                                                                                              | 29,650   | ECY  | \$ 30.00      | \$ 889,500   | See Borrow Estimate                                                                  |
|      | 09.04.10 | Processing Riprap                                                                                                                              | 29,650   | ECY  | \$ 30.00      | \$ 889,500   |                                                                                      |
|      | 09.05.00 | Removal of Excess Sand/Siltstone                                                                                                               | -        | BCY  | \$ -          | \$ -         | Excess Zone 6 Removal                                                                |
|      | 09.05.10 | Blasting operations                                                                                                                            | -        | BCY  | \$ 5.30       | \$ -         |                                                                                      |
|      | 09.05.20 | Excavate, Load, and haul to Stockpile 1 mile haul                                                                                              | -        | LCY  | \$ 7.94       | \$ -         | Haul to stockpile / Build Borrow Pad                                                 |
|      | 09.06.00 | Replace Overburden from Stockpile                                                                                                              | 61,000   | ECY  | \$ 7.58       | \$ 462,170   | Backfill Borrow area using material from stockpile, allow 100% of stripping material |
|      | 09.06.10 | Load and haul to site stockpile, 0.25 mile haul                                                                                                | 67,100   | LCY  | \$ 6.89       | \$ 462,170   |                                                                                      |
|      | 10.01.00 | Furnish and Install Zone 1 - Core                                                                                                              | 150,280  | ECY  | \$ 24.14      | \$ 3,627,427 |                                                                                      |
|      | 10.01.10 | Strip Borrow Areas and Haul to Waste - 0.25 Mile Haul                                                                                          | 19,000   | BCY  | \$ 5.24       | \$ 99,529    | Per MBD, Scrapers                                                                    |
|      | 10.01.20 | Load, Haul, and Stockpile - Top Loading - 0.25 Mile Haul                                                                                       | 176,800  | BCY  | \$ 8.76       | \$ 1,549,635 | Per MBD, Top Loading Equipment                                                       |
|      | 10.01.30 | Moisture Condition At Stockpile                                                                                                                | 176,800  | ECY  | \$ 2.83       | \$ 500,225   | Disc, Blade, Water Truck                                                             |
|      | 10.01.40 | Load, Haul, and Compact Contact Zone - Scraper - 0.75 Mile Haul                                                                                | 7,514    | ECY  | \$ 15.97      | \$ 119,990   | 1st Lift - 988 Rubber Tire                                                           |
|      | 10.01.50 | Load, Haul, and Compact Wide Zone - Scraper - 0.75 Mile Haul                                                                                   | 112,710  | ECY  | \$ 9.04       | \$ 1,018,536 | Load and Haul from Stockpile to Dam                                                  |
|      | 10.01.60 | Load, Haul, and Compact Narrow Zone - Scraper - 0.75 Mile Haul                                                                                 | 30,056   | ECY  | \$ 11.30      | \$ 339,512   |                                                                                      |
|      | 10.02.00 | Purchase, Haul and Place - Zone 2 - Filter                                                                                                     | 43,585   | ECY  | \$ 149.84     | \$ 6,530,565 | CY to Tons - 1.7, Waste & Overbuild 20%                                              |
|      | 10.02.10 | Purchase processed material from quarry - Filter                                                                                               | 88,913   | Tons | \$ 40.14      | \$ 3,568,706 |                                                                                      |
|      | 10.02.20 | Haul material to stockpile, 65 mile haul                                                                                                       | 88,913   | Tons | \$ 21.30      | \$ 1,893,855 |                                                                                      |
|      | 10.02.30 | Drive Over Unloaders & Stockpile Support                                                                                                       | 43,585   | ECY  | \$ 5.30       | \$ 230,998   |                                                                                      |
|      | 10.02.40 | Load, Haul, and Compact Blanket - Top Loading - 0.5 Mile Haul                                                                                  | 23,978   | ECY  | \$ 14.31      | \$ 343,101   |                                                                                      |
|      | 10.02.50 | Load, Haul, and Compact Chimney - Top Loading - 0.5 Mile Haul                                                                                  | 19,608   | ECY  | \$ 25.19      | \$ 493,904   |                                                                                      |
|      | 10.03.00 | Purchase, Haul and Place - Zone 3 - Drain                                                                                                      | 31,000   | ECY  | \$ 143.34     | \$ 4,443,387 | CY to Tons - 1.7, Waste & Overbuild 20%                                              |
|      | 10.03.10 | Purchase processed material from quarry - Drain                                                                                                | 63,240   | Tons | \$ 33.94      | \$ 2,146,445 |                                                                                      |
|      | 10.03.20 | Haul material from quarry to site stockpile/fill location, 75 mile haul                                                                        | 63,240   | Tons | \$ 24.30      | \$ 1,536,732 |                                                                                      |
|      | 10.03.30 | Drive Over Unloaders & Stockpile Support                                                                                                       | 31,000   | ECY  | \$ 5.30       | \$ 164,298   |                                                                                      |
|      | 10.03.40 | Load, Haul, and Compact Blanket - Top Loading - 0.5 Mile Haul                                                                                  | 17,000   | ECY  | \$ 14.31      | \$ 243,258   | Filter Rate                                                                          |
|      | 10.03.50 | Load, Haul, and Compact Chimney - Top Loading - 0.5 Mile Haul                                                                                  | 14,000   | ECY  | \$ 25.19      | \$ 352,654   | Filter Rate                                                                          |
|      | 10.06.00 | Purchase, Haul and Place - Zone 8 - Fine Transition - Saddles                                                                                  | 29,800   | ECY  | \$ 149.83     | \$ 4,465,021 |                                                                                      |
|      | 10.06.10 | Purchase processed material from quarry - Offsite Transition                                                                                   | 60,792   | Tons | \$ 40.14      | \$ 2,440,001 | At Filter Rate                                                                       |
|      | 10.06.20 | Haul material to stockpile, 65 mile haul                                                                                                       | 60,792   | Tons | \$ 21.30      | \$ 1,294,870 | At Filter Rate                                                                       |
|      | 10.06.30 | Drive Over Unloaders & Stockpile Support                                                                                                       | 29,800   | ECY  | \$ 5.30       | \$ 157,939   | At Filter Rate                                                                       |
|      | 10.06.40 | Load, Haul, and Compact Blanket - Top Loading - 1.0 Mile Haul                                                                                  | 16,400   | ECY  | \$ 14.31      | \$ 234,672   | At Filter Rate                                                                       |
|      | 10.06.50 | Load, Haul, and Compact Chimney - Top Loading - 1.0 Mile Haul                                                                                  | 13,400   | ECY  | \$ 25.19      | \$ 337,540   | At Filter Rate                                                                       |
|      | 10.08.00 | Furnish and Install Zone - 9 Random                                                                                                            | 834,552  | ECY  | \$ 10.48      | \$ 8,749,417 |                                                                                      |
|      | 10.08.10 | 29 Strip/Overburden/Surplus                                                                                                                    | 103,000  | BCY  | \$ 4.59       | \$ 472,763   |                                                                                      |
|      | 10.08.20 | Blasting operations                                                                                                                            | -        | BCY  | \$ -          | \$ -         | Not Required                                                                         |
|      | 10.08.30 | Sorting and Raking                                                                                                                             | 834,552  | ECY  | \$ 1.80       | \$ 1,502,180 |                                                                                      |
|      | 10.08.40 | Load, Haul, and Compact - Scraper - 0.5 Mile Haul                                                                                              | 434,700  | ECY  | \$ 6.52       | \$ 2,834,283 | From excavation stockpile to dam                                                     |
|      | 10.08.50 | Load, Haul, and Compact - Scraper - 1.0 Mile Haul                                                                                              | 199,926  | ECY  | \$ 8.15       | \$ 1,629,657 | No stockpiling required, direct haul                                                 |
|      | 10.08.60 | Load, Haul, and Compact - Top Loading - 1.0 Mile Haul                                                                                          | 199,926  | ECY  | \$ 11.56      | \$ 2,310,534 | No stockpiling required, direct haul                                                 |
|      | 10.09.00 | Produce, Haul and Place - Zone 7A - Bedding - Saddles                                                                                          | 8,940    | ECY  | \$ 14.31      | \$ 127,925   |                                                                                      |
|      | 10.09.10 | 7A - Bedding Material Produced On Site                                                                                                         | 18,238   | Tons | \$ -          | \$ -         |                                                                                      |
|      | 10.09.20 | Load, Haul, and Compact - Top Loading - 12 Mile Haul                                                                                           | 8,940    | ECY  | \$ 14.31      | \$ 127,925   | At Filter Rate                                                                       |
|      | 10.10.00 | Produce, Haul and Place - Zone 7B - Riprap                                                                                                     | 27,460   | ECY  | \$ 32.68      | \$ 897,482   |                                                                                      |
|      | 10.10.10 | Blasting operations                                                                                                                            | -        | ECY  | \$ -          | \$ -         | Included Above in 09                                                                 |
|      | 10.10.20 | Excavate to Riprap Processing                                                                                                                  | -        | ECY  | \$ -          | \$ -         | Included Above in 09                                                                 |
|      | 10.10.30 | Process Riprap                                                                                                                                 | -        | ECY  | \$ -          | \$ -         | Not required                                                                         |
|      | 10.10.40 | Load, Haul, Place Riprap - Top Loading - 12 Mile Haul                                                                                          | 27,460   | ECY  | \$ 32.68      | \$ 897,482   | Included Above in 09                                                                 |
|      | 10.11.00 | Groin Protection at Saddles                                                                                                                    | 2,190    | ECY  | \$ 32.68      | \$ 71,576    |                                                                                      |
|      | 10.11.10 | Blasting operations                                                                                                                            | -        | LCY  | \$ -          | \$ -         | Included Above in 09                                                                 |
|      | 10.11.20 | Excavate to Riprap Processing                                                                                                                  | -        | LCY  | \$ -          | \$ -         | Included Above in 09                                                                 |
|      | 10.11.30 | Process Riprap                                                                                                                                 | -        | LCY  | \$ -          | \$ -         | Included Above in 09                                                                 |
|      | 10.11.40 | Load, Haul, Place Riprap - Top Loading - 12 Mile Haul                                                                                          | 2,190    | LCY  | \$ 32.68      | \$ 71,576    | At Riprap Rate                                                                       |
| 11   | 11.00.00 | INSTRUMENTATION AND TELEMETRY                                                                                                                  |          |      |               | \$ 843,000   |                                                                                      |
|      | 11.01.00 | Instrumentation/Telemetry: Instrumentation/Telemetry (piezometers, settlement monitors (survey monuments), seismographs, and slope indicators) | 1        | LS   | \$ 843,000.00 | \$ 843,000   | Allowance                                                                            |
|      | 11.01.01 | Vibrating Wire Piezometers                                                                                                                     | 9        | EA   | \$ 20,000.00  | \$ 180,000   | Allowance for redundant installation                                                 |
|      | 11.01.02 | Open Standpipe Piezometer                                                                                                                      | 2        | EA   | \$ 12,000.00  | \$ 24,000    |                                                                                      |
|      | 11.01.03 | Vibrating Wire Weir Monitors                                                                                                                   | 3        | EA   | \$ 15,000.00  | \$ 45,000    |                                                                                      |
|      | 11.01.04 | Survey Monuments                                                                                                                               | 17       | EA   | \$ 2,000.00   | \$ 34,000    |                                                                                      |
|      | 11.01.12 | Central Monitoring Station                                                                                                                     | 1        | EA   | \$ 300,000.00 | \$ 300,000   |                                                                                      |
|      | 11.01.13 | Wireless and Solar Transmission Station                                                                                                        | 1        | EA   | \$ 100,000.00 | \$ 100,000   | Wireless Signals will be sent to HC Control Building                                 |
|      | 11.01.14 | Conduit and Cable Devices                                                                                                                      | 4,000    | LF   | \$ 25.00      | \$ 100,000   |                                                                                      |
| 12   | 12.00.00 | SITE RESTORATION                                                                                                                               |          |      |               | \$ 2,844,899 |                                                                                      |
|      | 12.01.00 | Seeding                                                                                                                                        | 430,000  | SF   | \$ 0.43       | \$ 184,899   | Allowance                                                                            |
|      | 12.02.00 | Fencing                                                                                                                                        | 800      | LF   | \$ 75.00      | \$ 60,000    | Allowance                                                                            |

DIRECT COST LEVEL 3 SUMMARY

| Item              | Sub Item | Description                                            | Quantity | Unit | Unit Rate       | Total         | Comment                      |
|-------------------|----------|--------------------------------------------------------|----------|------|-----------------|---------------|------------------------------|
|                   | 12.03.00 | Best Management Practices                              | 1        | LS   | \$ 1,400,000.00 | \$ 1,400,000  | Allowance                    |
|                   | 12.04.00 | Rock Check Dams                                        | 1        | LS   | \$ 600,000.00   | \$ 600,000    | Allowance                    |
|                   | 12.05.00 | Drainage - Inlets, Culverts                            | 1        | LS   | \$ 600,000.00   | \$ 600,000    | Allowance                    |
| 13                | 13.00.00 | RIM GROUTING                                           |          |      |                 | \$ 3,740,000  |                              |
|                   | 13.01.00 | Rim Grouting                                           | 18,700   | LF   | \$ 200.00       | \$ 3,740,000  |                              |
| 14                | 14.00.00 | SPILLWAY                                               |          |      |                 | \$ 6,243,627  |                              |
|                   | 14.01.00 | Spillway Approach Channel Excavation                   | 25,080   | CY   | \$ 16.50        | \$ 413,816    |                              |
|                   | 14.02.00 | Spillway and Stilling Basin Slab, reinforced concrete  | 1,038    | CY   | \$ 957.36       | \$ 993,739    |                              |
|                   | 14.01.10 | Concrete - Slab                                        | 1,038    | CY   | \$ 567.50       | \$ 589,060    |                              |
|                   | 14.02.20 | Formwork                                               | 5,190    | SF   | \$ 19.00        | \$ 98,608     |                              |
|                   | 14.02.30 | Rebar                                                  | 77       | TON  | \$ 3,974.95     | \$ 306,071    |                              |
|                   | 14.03.00 | Spillway and Stilling Basin walls, reinforced concrete | 585      | CY   | \$ 2,059.50     | \$ 1,204,807  |                              |
|                   | 14.03.10 | Concrete - Wall                                        | 585      | CY   | \$ 639.99       | \$ 374,396    |                              |
|                   | 14.03.20 | Formwork                                               | 14,625   | SF   | \$ 33.00        | \$ 482,615    |                              |
|                   | 14.03.30 | Rebar                                                  | 74       | TON  | \$ 4,699.93     | \$ 347,795    |                              |
|                   | 14.04.00 | Spillway Stilling Basin Baffles                        | 11       | CY   | \$ 1,989.52     | \$ 21,885     |                              |
|                   | 14.04.10 | Concrete - Wall                                        | 11       | CY   | \$ 639.99       | \$ 7,040      |                              |
|                   | 14.04.20 | Formwork                                               | 165      | SF   | \$ 33.00        | \$ 5,445      |                              |
|                   | 14.04.30 | Rebar                                                  | 2        | TON  | \$ 4,699.93     | \$ 9,400      |                              |
|                   | 14.05.00 | Cutoff walls under weir and stilling basin             | 147      | CY   | \$ 1,820.43     | \$ 267,603    |                              |
|                   | 14.05.10 | Concrete - Wall                                        | 147      | CY   | \$ 639.99       | \$ 94,079     |                              |
|                   | 14.05.20 | Formwork                                               | 2,205    | SF   | \$ 33.00        | \$ 72,764     |                              |
|                   | 14.05.30 | Rebar                                                  | 20       | TON  | \$ 4,699.93     | \$ 93,999     |                              |
|                   | 14.05.40 | Excavation                                             | 147      | CY   | \$ 46.00        | \$ 6,762      |                              |
|                   | 14.06.00 | Spillway Wing walls                                    | 1,489    | CY   | \$ 1,786.93     | \$ 2,660,744  |                              |
|                   | 14.06.10 | Concrete - Wall                                        | 1,489    | CY   | \$ 639.99       | \$ 952,950    |                              |
|                   | 14.06.20 | Formwork                                               | 37,225   | SF   | \$ 33.00        | \$ 1,228,400  |                              |
|                   | 14.06.30 | Rebar                                                  | 102      | TON  | \$ 4,699.93     | \$ 479,393    |                              |
|                   | 14.07.00 | Spillway Ogee Weir                                     | 329      | CY   | \$ 1,693.54     | \$ 557,176    |                              |
|                   | 14.07.10 | Concrete - Wall                                        | 329      | CY   | \$ 639.99       | \$ 210,558    |                              |
|                   | 14.07.20 | Formwork                                               | 8,225    | SF   | \$ 33.00        | \$ 271,420    |                              |
|                   | 14.07.30 | Rebar                                                  | 16       | TON  | \$ 4,699.93     | \$ 75,199     |                              |
|                   |          | Spillway Bridge                                        |          |      | \$ -            | \$ 65,399     | Included in Roadway Estimate |
|                   | 14.08.00 | Backfill at Spillway                                   | 2,180    | CY   | \$ 30.00        | \$ 65,399     |                              |
|                   | 14.09.00 | Riprap and Bedding at Spillway                         | 115      | CY   | \$ 176.00       | \$ 20,240     |                              |
|                   | 14.10.00 | Drainage                                               | 41       | CY   | \$ 105.00       | \$ 4,305      |                              |
|                   | 14.11.00 | Drainage - 6" PVC Pipe                                 | 357      | LF   | \$ 95.00        | \$ 33,914     |                              |
| 15                | 15.00.00 | ALLOWANCE FOR UNLISTED ITEMS                           |          |      |                 | \$ 4,350,674  |                              |
|                   | 15.01.00 | Allowance for Unlisted Items                           | 5.0%     | %    | \$ 87,013.471   | \$ 4,350,674  |                              |
| Total Direct Cost |          |                                                        | 1.13     | MCY  | \$ 81.04        | \$ 91,398,059 |                              |

Sites Reservoir: Inlet / Outlet Facility  
30% Cost Estimate  
Sites, CA

Cost Estimate  
AACEI Class 3  
February 28, 2025

**TOTAL ESTIMATE SUMMARY**

|                   |             |
|-------------------|-------------|
| Total Direct Cost | 309,970,794 |
|-------------------|-------------|

|                                                    |             |
|----------------------------------------------------|-------------|
| TOTAL DIRECT COST BEFORE CONTRACTOR INDIRECT COSTS | 309,970,794 |
|----------------------------------------------------|-------------|

|                              |       |            |
|------------------------------|-------|------------|
| Mobilization                 | 5.0%  | 15,498,540 |
| Field Overhead Costs (GC&GR) | 17.0% | 55,329,787 |
| Insurance                    | 2.0%  | 7,615,982  |
| Bonds                        | 0.6%  | 2,330,491  |

|                                 |            |
|---------------------------------|------------|
| Total Contractor Indirect Costs | 80,774,800 |
|---------------------------------|------------|

|                       |             |
|-----------------------|-------------|
| TOTAL CONTACTOR COSTS | 390,745,594 |
|-----------------------|-------------|

|                            |       |            |
|----------------------------|-------|------------|
| Home Office Overhead (G&A) | 6.5%  | 25,398,464 |
| GC Profit                  | 10.0% | 41,614,406 |

|                                      |            |
|--------------------------------------|------------|
| Total Contractor Overhead and Profit | 67,012,870 |
|--------------------------------------|------------|

|                                              |             |
|----------------------------------------------|-------------|
| TOTAL CONSTRUCTION COST BEFORE CONTINGENCIES | 457,758,464 |
|----------------------------------------------|-------------|

|                            |       |            |
|----------------------------|-------|------------|
| Contingencies              |       |            |
| Design Contingencies       | 18.8% | 86,058,591 |
| Construction Contingencies | 15.0% | 81,572,558 |

|                             |             |
|-----------------------------|-------------|
| Total Contingency Allowance | 167,631,149 |
|-----------------------------|-------------|

|                              |             |
|------------------------------|-------------|
| TOTAL COST BEFORE ESCALATION | 625,389,613 |
|------------------------------|-------------|

|                                         |           |    |   |
|-----------------------------------------|-----------|----|---|
| Escalation to Mid-point of Construction | By Others | 0% | - |
|-----------------------------------------|-----------|----|---|

|                                 |             |
|---------------------------------|-------------|
| RECOMMENDED CONSTRUCTION BUDGET | 625,389,613 |
|---------------------------------|-------------|

|                    |           |      |   |
|--------------------|-----------|------|---|
| Non-Contract Costs | By Others | 0.0% | - |
|--------------------|-----------|------|---|

|                |             |
|----------------|-------------|
| TOTAL ESTIMATE | 625,389,613 |
|----------------|-------------|

DIRECT COST LEVEL 2 SUMMARY

| Item | Sub Item  | Description                                                          | UoM    | 30% Cost Estimate |             |             |
|------|-----------|----------------------------------------------------------------------|--------|-------------------|-------------|-------------|
|      |           |                                                                      |        | Qty               | Unit Rate   | Total       |
| 01   | 01.00.00  | PRECONSTRUCTION ACTIVITIES                                           |        |                   |             | 634,480     |
|      | 01.02.00  | Clearing and Grubbing                                                | ACRE   | 5                 | 10,241      | 51,205      |
|      | 01.04.00  | Erosion and Sediment Control                                         | ACRE   | 5                 | 108,000     | 540,000     |
|      | 01.07.00  | Developing Stockpile and Staging Areas                               | ACRES  | 3                 | 17,310      | 43,275      |
| 02   | 02.00.00  | UPSTREAM APPROACH AND PORTAL                                         |        |                   |             | 23,109,345  |
|      | 02.01.00  | Excavation - Approach Channel                                        | BCY    | 340,000           | 28          | 9,666,965   |
|      | 02.02.00  | Rock Bolts - Approach Channel                                        | EA     | 270               | 3,497       | 944,203     |
|      | 02.03.00  | Excavation - Upstream Portal Including the Sloping Intake Excavation | BCY    | 266,000           | 30          | 8,017,306   |
|      | 02.04.00  | Rock Bolts                                                           | EA     | 206               | 3,491       | 718,175     |
|      | 02.05.00  | Soil Nails - Passive anchors                                         | EA     | 303               | 5,382       | 1,632,591   |
|      | 02.06.00  | Shotcrete Portal Face                                                | CY     | 1,520             | 859         | 1,306,205   |
|      | 02.07.00  | Protal Cleaning and Mapping                                          | SY     | 4,560             | 75          | 343,900     |
|      | 02.08.00  | Dewatering allowance                                                 | Months | 12                | 40,000      | 480,000     |
| 03   | 03.00.00  | INTAKE STRUCTURE - CONCRETE                                          |        |                   |             | 3,440,896   |
|      | 03.01.00  | Slab                                                                 | CY     | -                 |             | -           |
|      | 03.02.00  | Mass Concrete (intake structure)                                     | CY     | 3,040             | 1,063       | 3,232,756   |
|      | 03.03.00  | Piles                                                                | LF     | 447               | 465         | 208,140     |
| 04   | 04.00.00  | SLOPING INTAKE - CONCRETE                                            |        |                   |             | 22,538,853  |
|      | 04.01.00  | Slab                                                                 | CY     | 1,147             | 873         | 1,001,570   |
|      | 04.02.00  | Mass Concrete - At Base                                              | CY     | 6,102             | 985         | 6,012,621   |
|      | 04.03.00  | Mass Concrete - Sloping Intake                                       | CY     | 12,420            | 1,179       | 14,642,742  |
|      | 04.04.00  | Piles                                                                | LF     | 1,806             | 488         | 881,920     |
| 05   | 05.00.00  | SLOPING INTAKE STRUCTURE - MECHANICAL                                |        |                   |             | 46,632,128  |
|      | 05.01.10  | 9' Butterfly Valves                                                  | EA     | 2                 | 966,500     | 1,933,000   |
|      | 05.01.20  | 8' Butterfly Valves                                                  | EA     | 12                | 901,500     | 10,818,000  |
|      | 05.02.00  | Trash Rack                                                           | TON    | 125               | 19,200      | 2,400,000   |
|      | 05.03.00  | Piping - Materials                                                   | LS     | 1                 | 26,430,110  | 26,430,110  |
|      | 05.04.00  | Piping - Installation                                                | LS     | 1                 | 5,051,018   | 5,051,018   |
| 06   | 06.00.00  | DOWNSTREAM PORTAL                                                    |        |                   |             | 21,879,876  |
|      | 06.01.00  | Excavation - Structural Excavation                                   | BCY    | 131,000           | 28          | 3,728,348   |
|      | 06.02.00  | Rock Bolts                                                           | EA     | 40                | 3,788       | 151,504     |
|      | 06.03.00  | Soil Nails - Passive anchors                                         | EA     | 1,267             | 11,818      | 14,970,023  |
|      | 06.04.00  | Shotcrete Portal Face                                                | CY     | 2,550             | 1,000       | 2,550,000   |
|      | 06.06.00  | Dewatering allowance                                                 | Months | 12                | 40,000      | 480,000     |
| 08   | 08.00.00  | CONTROL HOUSE                                                        |        |                   |             | 2,100,000   |
|      | 08.01.00  | Control House                                                        | LS     | 1                 | 2,100,000   | 2,100,000   |
|      | 08.01.10  | Building - Allowance                                                 | SF     | 450               | 1,000       | 450,000     |
|      | 08.01.20  | HPU Unit                                                             | LS     | 1                 | 800,000     | 800,000     |
|      | 08.01.30  | Controls - Allowance                                                 | LS     | 1                 | 350,000     | 350,000     |
|      | 08.01.40  | Electrical to Structure - Allowance                                  | LS     | 1                 | 500,000     | 500,000     |
| 09   | 09.00.00  | I-O Tunnel                                                           |        |                   |             | 174,575,003 |
|      | 09.01.00  | I/O Tunnel                                                           | Feet   | 3,157             | 53,664      | 169,418,779 |
|      | 09.01.10A | Mobilization                                                         | LS     | 1                 | 5,156,224   | 5,156,224   |
|      | 09.01.10B | Pre-Excavation Drilling and Grouting                                 | LF     | 38,000            | 250         | 9,500,000   |
|      | 09.01.20  | Excavation                                                           | BCY    | 62,654            | 600         | 37,592,400  |
|      | 09.01.30  | Excavation Support - Steel Sets                                      | Ea     | 316               | 5,250       | 1,659,000   |
|      | 09.01.40  | Excavation Support - Rock Anchors                                    | LF     | 36,985            | 150         | 5,547,750   |
|      | 09.01.50  | Floor - Mud Mat                                                      | CY     | 1,353             | 500         | 676,500     |
|      | 09.01.60  | Shotcrete                                                            | CY     | 4,823             | 350         | 1,688,050   |
|      | 09.01.70  | Steel Pipe                                                           | TONS   | 5,524             | 12,981      | 71,702,725  |
|      | 09.01.71A | Steel Pipe - Weld Seams in Field                                     | LF     | 9,471             | 620         | 5,872,020   |
|      | 09.01.71B | Steel Pipe - Weld Seams in Field                                     | SF     | 47,355            | 10          | 473,550     |
|      | 09.01.80  | LDCC Fill                                                            | CY     | 23,502            | 500         | 11,750,920  |
|      | 09.01.90  | Concrete Fill                                                        | CY     | 691               | 1,000       | 690,530     |
|      | 09.01.11  | Rebar for Concrete Encasement                                        | TONS   | 35                | 4,800       | 167,232     |
|      | 09.01.12  | Allowance for Unlisted Items                                         | %      | 15                | 1,473,207   | 22,098,102  |
| 10   | 10.00.00  | SITE RESTORATION                                                     |        |                   |             | 299,700     |
|      | 10.01.00  | Seeding                                                              | SF     | 40,000            | 0           | 17,200      |
|      | 10.02.00  | Fencing                                                              | LS     | 300               | 75          | 22,500      |
|      | 10.03.00  | Best Management Practices                                            | LS     | 1                 | 140,000     | 140,000     |
|      | 10.04.00  | Rock Check Dams                                                      | LS     | 1                 | 60,000      | 60,000      |
|      | 10.05.00  | Drainage - Inlets, Culverts                                          | LS     | 1                 | 60,000      | 60,000      |
| 11   | 11.00.00  | ALLOWANCE FOR UNLISTED ITEMS                                         |        |                   |             | 14,760,514  |
|      | 11.01.00  | Allowance for Unlisted Items                                         | %      | 0                 | 295,210,280 | 14,760,514  |
|      |           | Total Direct Cost                                                    | LS     |                   |             | 309,970,794 |

DIRECT COST LEVEL 3 SUMMARY

| Item | Sub Item | Description                                                          | Quantity | Unit   | Unit Rate   | Total         | Comment                                      |
|------|----------|----------------------------------------------------------------------|----------|--------|-------------|---------------|----------------------------------------------|
| 01   | 01.00.00 | PRECONSTRUCTION ACTIVITIES                                           | 1        | LS     | \$ 634,480  | \$ 634,480    |                                              |
|      | 01.02.00 | Clearing and Grubbing                                                | 5        | ACRE   | \$ 10,241   | \$ 51,205     | Heavy vegetation removal                     |
|      | 01.04.00 | Erosion and Sediment Control                                         | 5        | ACRE   | \$ 108,000  | \$ 540,000    | Allowed \$0.25/SF to 30% of the total area   |
|      | 01.07.00 | Developing Stockpile and Staging Areas                               | 2.5      | ACRES  | \$ 17,310   | \$ 43,275     | Clear, grade, gravel fill layer and compact  |
| 02   | 02.00.00 | UPSTREAM APPROACH AND PORTAL                                         |          |        |             | \$ 23,109,345 |                                              |
|      | 02.01.00 | Excavation - Approach Channel                                        | 340,000  | BCY    | \$ 28       | \$ 9,666,965  | 40% Common, 60% Drill and Shoot              |
|      | 02.01.10 | Common Excavation and Haul - Top Loading - 1 Mile Haul               | 136,000  | BCY    | \$ 21.63    | \$ 2,941,907  |                                              |
|      | 02.01.20 | Drill Foundation & Shoot Rock Excavation                             | 204,000  | BCY    | \$ 15.74    | \$ 3,211,044  |                                              |
|      | 02.01.30 | Rock Excavation and Haul - Top Loading - 1 Mile Haul                 | 204,000  | BCY    | \$ 17.23    | \$ 3,514,015  |                                              |
|      | 02.02.00 | Rock Bolts - Approach Channel                                        | 270      | EA     | \$ 3,497    | \$ 944,203    |                                              |
|      | 02.02.10 | Installation of Rock Bolts                                           | 9,500    | LF     | \$ 99.39    | \$ 944,203    | 35' Long, 10' Spacing, #11                   |
|      | 02.03.00 | Excavation - Upstream Portal Including the Sloping Intake Excavation | 266,000  | BCY    | \$ 30       | \$ 8,017,306  | 25% Common, 75% Drill and Shoot.             |
|      | 02.03.10 | Common Excavation and Haul - Top Loading - 1 Mile Haul               | 66,500   | BCY    | \$ 21.80    | \$ 1,449,635  |                                              |
|      | 02.03.20 | Drill Foundation & Shoot Rock Excavation                             | 199,500  | BCY    | \$ 15.71    | \$ 3,133,977  |                                              |
|      | 02.03.30 | Rock Excavation and Haul - Top Loading - 1 Mile Haul                 | 199,500  | BCY    | \$ 17.21    | \$ 3,433,695  |                                              |
|      | 02.04.00 | Rock Bolts                                                           | 206      | EA     | \$ 3,491    | \$ 718,175    |                                              |
|      | 02.04.10 | Installation of Rock Bolts                                           | 7,200    | LF     | \$ 99.75    | \$ 718,175    | 35' Long, 10' Spacing,                       |
|      | 02.05.00 | Soil Nails - Passive anchors                                         | 303      | EA     | \$ 5,382    | \$ 1,632,591  |                                              |
|      | 02.05.10 | Installation of Soil Nails                                           | 18,200   | LF     | \$ 89.70    | \$ 1,632,591  | Avg 60' Long, 150 KSI #18, 6" Hole           |
|      | 02.06.00 | Shotcrete Portal Face                                                | 1,520    | CY     | \$ 859      | \$ 1,306,205  |                                              |
|      | 02.06.10 | Shotcrete Portal Face                                                | 1,520    | CY     | \$ 859.35   | \$ 1,306,205  | 12" Thick, #35/CY Steel Fiber                |
|      | 02.07.00 | Protal Mapping and Mud Mat                                           | 4,560    | SY     | \$ 75       | \$ 343,900    |                                              |
|      | 02.07.10 | Protal Cleaning Mapping and Mud Mat                                  | 4,560    | SY     | \$ 75.42    | \$ 343,900    | 12" Thick, #35/CY Steel Fiber                |
|      | 02.08.00 | Dewatering allowance                                                 | 12       | Months | \$ 40,000   | \$ 480,000    | Allowance                                    |
| 03   | 03.00.00 | INTAKE STRUCTURE - CONCRETE                                          |          |        |             | \$ 3,440,896  |                                              |
|      | 03.01.00 | Slab                                                                 | -        | CY     | \$ -        | \$ -          |                                              |
|      | 03.01.10 | Concrete - Slab                                                      | -        | CY     | \$ 500      | \$ -          |                                              |
|      | 03.01.20 | Rebar                                                                | -        | TON    | \$ 4,800    | \$ -          |                                              |
|      | 03.01.30 | Formwork                                                             | -        | SF     | \$ 35       | \$ -          |                                              |
|      | 03.02.00 | Mass Concrete (intake structure)                                     | 3,040    | CY     | \$ 1,063    | \$ 3,232,756  | Between sloping intake and tunnel - 4 HRS/CY |
|      | 03.02.10 | Concrete - Mass                                                      | 3,040    | CY     | \$ 818.00   | \$ 2,486,720  |                                              |
|      | 03.02.20 | Rebar                                                                | 40       | TON    | \$ 2,900.90 | \$ 116,036    | 26 Lbs/CY                                    |
|      | 03.02.30 | Formwork                                                             | 7,500    | SF     | \$ 84.00    | \$ 630,000    | 2 SF/CY                                      |
|      | 03.03.00 | Piles                                                                | 447      | LF     | \$ 465      | \$ 208,140    |                                              |
|      | 03.03.10 | Drill - 24"                                                          | 447      | LF     | \$ 300.00   | \$ 134,140    |                                              |
|      | 03.03.20 | Rebar                                                                | 10       | TON    | \$ 4,800.00 | \$ 48,000     | 385 Lbs/CY                                   |
|      | 03.03.30 | Pour                                                                 | 52       | CY     | \$ 500.00   | \$ 26,000     |                                              |
| 04   | 04.00.00 | SLOPING INTAKE - CONCRETE                                            |          |        |             | \$ 22,538,853 |                                              |
|      | 04.01.00 | Slab                                                                 | 1,147    | CY     | \$ 873      | \$ 1,001,570  | 3 HRS/CY                                     |
|      | 04.01.10 | Concrete - Slab                                                      | 1,147    | CY     | \$ 733.00   | \$ 840,751    |                                              |
|      | 04.01.20 | Rebar                                                                | 21       | TON    | \$ 2,900.90 | \$ 60,919     | 37 Lbs/CY                                    |
|      | 04.01.30 | Formwork                                                             | 2,160    | SF     | \$ 46.25    | \$ 99,900     | 2 SF/CY                                      |
|      | 04.02.00 | Mass Concrete - At Base                                              | 6,102    | CY     | \$ 985      | \$ 6,012,621  | 3 HRS/CY                                     |
|      | 04.02.10 | Concrete - Mass                                                      | 6,102    | CY     | \$ 733.00   | \$ 4,472,766  |                                              |
|      | 04.02.20 | Rebar                                                                | 61       | TON    | \$ 2,900.90 | \$ 176,955    | 20 Lbs/CY                                    |
|      | 04.02.40 | Formwork                                                             | 16,225   | SF     | \$ 84.00    | \$ 1,362,900  | 3 SF/CY                                      |
|      | 04.03.00 | Mass Concrete - Sloping Intake                                       | 12,420   | CY     | \$ 1,179    | \$ 14,642,742 | 4 HRS/CY                                     |
|      | 04.03.10 | Concrete - Mass                                                      | 12,420   | CY     | \$ 903.00   | \$ 11,215,260 |                                              |
|      | 04.03.20 | Rebar                                                                | 208      | TON    | \$ 2,900.90 | \$ 603,387    | 33 Lbs/CY                                    |
|      | 04.03.30 | Rebar - Pipe Opening                                                 | 150      | TON    | \$ 2,900.90 | \$ 435,135    | 24 Lbs/CY                                    |
|      | 04.03.40 | Formwork                                                             | 28,440   | SF     | \$ 84.00    | \$ 2,388,960  | 2 SF/CY                                      |
|      | 04.04.00 | Piles                                                                | 1,806    | LF     | \$ 488      | \$ 881,920    |                                              |
|      | 04.04.10 | Drill - 24"                                                          | 1,806    | LF     | \$ 300.00   | \$ 541,720    |                                              |
|      | 04.04.20 | Rebar                                                                | 49       | TON    | \$ 4,800.00 | \$ 235,200    | 467 Lbs/CY                                   |
|      | 04.04.30 | Pour                                                                 | 210      | CY     | \$ 500.00   | \$ 105,000    |                                              |
| 05   | 05.00.00 | SLOPING INTAKE STRUCTURE - MECHANICAL                                |          |        |             | \$ 46,632,128 |                                              |

DIRECT COST LEVEL 3 SUMMARY

| Item | Sub Item  | Description                                            | Quantity | Unit   | Unit Rate      | Total          | Comment                                  |
|------|-----------|--------------------------------------------------------|----------|--------|----------------|----------------|------------------------------------------|
|      | 05.01.10  | 9" Butterfly Valves                                    | 2        | EA     | \$ 966,500     | \$ 1,933,000   | Quote - \$895k Each                      |
|      | 05.01.20  | 8" Butterfly Valves                                    | 12       | EA     | \$ 901,500     | \$ 10,818,000  | Quote - \$830k Each                      |
|      | 05.02.00  | Trash Rack                                             | 125      | TON    | \$ 19,200      | \$ 2,400,000   | Epoxy Coated                             |
|      | 05.03.00  | Piping - Materials                                     | 1        | LS     | \$ 26,430,110  | \$ 26,430,110  |                                          |
|      | 05.03.10  | Sloping Intake Piping                                  | 570      | TON    | \$ 27,537      | \$ 15,696,148  |                                          |
|      | 05.03.20  | Branches to Valves                                     | 152      | TON    | \$ 27,537      | \$ 4,185,639   |                                          |
|      | 05.03.30  | Bifurcation Piping                                     | 221      | TON    | \$ 27,537      | \$ 6,082,946   |                                          |
|      | 05.03.40  | Air Vent Piping                                        | 17       | TON    | \$ 27,537      | \$ 465,377     |                                          |
|      | 05.04.00  | Piping - Installation                                  | 1        | LS     | \$ 5,051,018   | \$ 5,051,018   |                                          |
|      | 05.04.10  | Sloping Intake Piping - Erect - 13'                    | 700      | LF     | \$ 2,800       | \$ 1,960,000   |                                          |
|      | 05.04.11  | Sloping Intake Piping - Weldout                        | 571      | LF     | \$ 620         | \$ 354,318     | Weld Every 50'                           |
|      | 05.04.20  | Branches to Valves - Erect - 8'                        | 560      | LF     | \$ 1,400       | \$ 784,000     |                                          |
|      | 05.04.21  | Branches to Valves - Weldout                           | 502      | LF     | \$ 620         | \$ 311,488     | Weld at every branch                     |
|      | 05.04.30  | Bifurcation Piping - Erect - 13' & 18.5'               | 270      | LF     | \$ 4,200       | \$ 1,134,000   |                                          |
|      | 05.04.31  | Bifurcation Piping - Weldout                           | 551      | LF     | \$ 620         | \$ 341,663     | Weld every 20'                           |
|      | 05.04.40  | Air Vent Piping - Erect - 4'                           | 180      | LF     | \$ 840         | \$ 134,400     |                                          |
|      | 05.04.41  | Air Vent Piping - Weldout                              | 50       | LF     | \$ 620         | \$ 31,149      | Weld Every 40'                           |
| 06   | 06.00.00  | DOWNSTREAM PORTAL                                      |          |        |                | \$ 21,879,876  |                                          |
|      | 06.01.00  | Excavation - Structural Excavation                     | 131,000  | BCY    | \$ 28          | \$ 3,728,348   | 40% Common, 60% Drill and Shoot          |
|      | 06.01.10  | Common Excavation and Haul - Top Loading - 1 Mile Haul | 52,400   | BCY    | \$ 21.56       | \$ 1,129,863   |                                          |
|      | 06.01.20  | Drill Foundation & Shoot Rock Excavation               | 78,600   | BCY    | \$ 15.69       | \$ 1,233,040   |                                          |
|      | 06.01.30  | Rock Excavation and Haul - Top Loading - 1 Mile Haul   | 78,600   | BCY    | \$ 17.37       | \$ 1,365,446   |                                          |
|      | 06.02.00  | Rock Bolts                                             | 40       | EA     | \$ 3,788       | \$ 151,504     |                                          |
|      | 06.02.10  | Installation of Rock Bolts                             | 1,400    | LF     | \$ 108.22      | \$ 151,504     | 35' Long, 10" Spacing, #11               |
|      | 06.03.00  | Soil Nails - Passive anchors                           | 1,267    | EA     | \$ 11,818      | \$ 14,970,023  |                                          |
|      | 06.03.10  | Installation of Soil Nails                             | 152,000  | LF     | \$ 98.49       | \$ 14,970,023  | Avg 120' Long, 150 KSI #18, 6" Hole      |
|      | 06.04.00  | Shotcrete Portal Face                                  | 2,550    | CY     | \$ 1,000       | \$ 2,550,000   |                                          |
|      | 06.04.10  | Shotcrete Portal Face                                  | 2,550    | CY     | \$ 1,000       | \$ 2,550,000   | 12" Thick, #35/CY Steel Fiber            |
|      | 06.06.00  | Dewatering allowance                                   | 12       | Months | \$ 40,000      | \$ 480,000     | Allowance                                |
| 08   | 08.00.00  | CONTROL HOUSE                                          |          |        |                | \$ 2,100,000   |                                          |
|      | 08.01.00  | Control House                                          | 1        | LS     | \$ 2,100,000   | \$ 2,100,000   |                                          |
|      | 08.01.10  | Building - Allowance                                   | 450      | SF     | \$ 1,000       | \$ 450,000     |                                          |
|      | 08.01.20  | HPU Unit                                               | 1        | LS     | \$ 800,000     | \$ 800,000     | Quote - \$700k Each                      |
|      | 08.01.30  | Controls - Allowance                                   | 1        | LS     | \$ 350,000     | \$ 350,000     |                                          |
|      | 08.01.40  | Electrical to Structure - Allowance                    | 1        | LS     | \$ 500,000     | \$ 500,000     | OH Line By Others                        |
| 09   | 09.00.00  | I/O Tunnel                                             | 3,157    | LF     | \$ 55,298      | \$ 174,575,003 |                                          |
|      |           | Key Tunnel Dimensions                                  |          |        |                |                | For Reference Only                       |
|      |           | Tunnel Length                                          | 3,157    | Feet   |                |                |                                          |
|      |           | Tunnel Inside Diameter                                 | 18.5     | Feet   |                |                |                                          |
|      |           | Excavation Inside Diameter                             | 24.5     | Feet   |                |                |                                          |
|      |           | Pre-Excavation Drilling Holes                          | 20,000   | LF     |                |                |                                          |
|      |           | Excavation Support Spacing                             | 5        | Feet   |                |                |                                          |
|      |           | Shotcrete Thickness                                    | 0.67     | Feet   |                |                |                                          |
|      |           | Pipe Wall Thickness                                    | 1.44     | Inch   |                |                |                                          |
|      |           | Backfill % Concrete - Balance LDCC                     | 3        | %      |                |                |                                          |
|      | 09.01.00  | I/O Tunnel                                             | 3,157    | Feet   | \$ 53,664      | \$ 169,418,779 |                                          |
|      | 09.01.10A | Mobilization                                           | 1        | LS     | \$ 5,156,224   | \$ 5,156,224   | 1 Sack per Foot and 1.375 Gallons Per LF |
|      | 09.01.10B | Pre-Excavation Drilling and Grouting                   | 38,000   | LF     | \$ 250         | \$ 9,500,000   | 1 Sack per Foot and 1.375 Gallons Per LF |
|      | 09.01.20  | Excavation                                             | 62,654   | BCY    | \$ 600         | \$ 37,592,400  |                                          |
|      | 09.01.30  | Excavation Support - Steel Sets                        | 316      | Ea     | \$ 5,250       | \$ 1,659,000   | 50% steel sets - W6x25 per the drawing   |
|      | 09.01.40  | Excavation Support - Rock Anchors                      | 36,985   | LF     | \$ 150         | \$ 5,547,750   | 50% rock anchors - 11' No. 8             |
|      | 09.01.50  | Floor - Mud Mat                                        | 1,353    | CY     | \$ 500         | \$ 676,500     |                                          |
|      | 09.01.60  | Shotcrete                                              | 4,823    | CY     | \$ 350         | \$ 1,688,050   | Steel fiber reinforced shotcrete         |
|      | 09.01.70  | Steel Pipe                                             | 5,524    | TONS   | \$ 12,981      | \$ 71,702,725  |                                          |
|      | 09.01.71A | Steel Pipe - Weld And Install                          | 9,471    | LF     | \$ 620         | \$ 5,872,020   |                                          |
|      | 09.01.71B | Steel Pipe - Coat and Line Welds                       | 47,355   | SF     | \$ 10          | \$ 473,550     |                                          |
|      | 09.01.80  | LDCC Fill                                              | 23,502   | CY     | \$ 500         | \$ 11,750,920  |                                          |
|      | 09.01.90  | Concrete Fill                                          | 691      | CY     | \$ 1,000       | \$ 690,530     |                                          |
|      | 09.01.11  | Rebar for Concrete Encasement                          | 35       | TONS   | \$ 4,800       | \$ 167,232     |                                          |
|      | 09.01.12  | Allowance for Unlisted Items                           | 15       | %      | \$ 147,320,677 | \$ 22,098,102  |                                          |
| 10   | 10.00.00  | SITE RESTORATION                                       |          |        |                | \$ 299,700     |                                          |

DIRECT COST LEVEL 3 SUMMARY

| Item              | Sub Item | Description                  | Quantity | Unit | Unit Rate      | Total          | Comment |
|-------------------|----------|------------------------------|----------|------|----------------|----------------|---------|
|                   | 10.01.00 | Seeding                      | 40,000   | SF   | \$ 0           | \$ 17,200      |         |
|                   | 10.02.00 | Fencing                      | 300      | LS   | \$ 75          | \$ 22,500      |         |
|                   | 10.03.00 | Best Management Practices    | 1        | LS   | \$ 140,000     | \$ 140,000     |         |
|                   | 10.04.00 | Rock Check Dams              | 1        | LS   | \$ 60,000      | \$ 60,000      |         |
|                   | 10.05.00 | Drainage - Inlets, Culverts  | 1        | LS   | \$ 60,000      | \$ 60,000      |         |
| 11                | 11.00.00 | ALLOWANCE FOR UNLISTED ITEMS |          |      |                | \$ 14,760,514  |         |
|                   | 11.01.00 | Allowance for Unlisted Items | 5.0%     | %    | \$ 295,210,280 | \$ 14,760,514  |         |
| Total Direct Cost |          |                              | 1.00     | LS   | \$ 309,970,794 | \$ 309,970,794 |         |

Sites Reservoir: 27.1A - Temporary Sites Lodoga Road Detour  
30% Cost Estimate  
Sites, CA

Cost Estimate  
AAEI Class 3  
February 28, 2025

# TOTAL ESTIMATE SUMMARY

|                                                    |           |      |            |
|----------------------------------------------------|-----------|------|------------|
| Total Direct Cost                                  |           |      | 30,710,997 |
| TOTAL DIRECT COST BEFORE CONTRACTOR INDIRECT COSTS |           |      | 30,710,997 |
| Mobilization                                       | 3.0%      |      | 921,330    |
| Field Overhead Costs (GC&GR)                       | 12.5%     |      | 3,954,041  |
| Insurance                                          | 2.0%      |      | 711,727    |
| Bonds                                              | 0.6%      |      | 217,789    |
| Total Contractor Indirect Costs                    |           |      | 5,804,887  |
| TOTAL CONTACTOR COSTS                              |           |      | 36,515,884 |
| Home Office Overhead (G&A)                         | 5.5%      |      | 2,008,374  |
| GC Profit                                          | 8.0%      |      | 3,081,941  |
| Total Contractor Overhead and Profit               |           |      | 5,090,315  |
| TOTAL CONSTRUCTION COST BEFORE CONTINGENCIES       |           |      | 41,606,199 |
| Contingencies                                      |           |      |            |
| Design Contingencies                               | 12.7%     |      | 5,283,987  |
| Construction Contingencies                         | 15.0%     |      | 7,033,528  |
| Total Contingency Allowance                        |           |      | 12,317,515 |
| TOTAL COST BEFORE ESCALATION                       |           |      | 53,923,714 |
| Escalation to Mid-point of Construction            | By Others | 0%   | -          |
| RECOMMENDED CONSTRUCTION BUDGET                    |           |      | 53,923,714 |
| Non-Contract Costs                                 | By Others | 0.0% | -          |
| TOTAL ESTIMATE                                     |           |      | 53,923,714 |

DIRECT COST LEVEL 2 SUMMARY

| Item | Sub Item | Description                                                                                                                             | UoM   | Qty     | Unit Rate | Total      |
|------|----------|-----------------------------------------------------------------------------------------------------------------------------------------|-------|---------|-----------|------------|
|      |          | Total Road Length                                                                                                                       | Miles | 1.3     |           | 24,198,487 |
|      |          | Total Road Length                                                                                                                       | LF    | 6,701   |           | 4,583      |
|      |          | Average Width                                                                                                                           | Feet  | 32      |           |            |
|      |          | Area                                                                                                                                    | SF    | 214,432 |           | 143        |
| 01   | 01.00.00 | Preconstruction Activities                                                                                                              |       |         |           | 233,505    |
|      | 01.01.00 | Clearing And Grubbing                                                                                                                   | ACRE  | 25      | 8,000.00  | 200,000    |
|      | 01.02.00 | Temporary Silt Fence                                                                                                                    | LF    | 16,753  | 2.00      | 33,505     |
| 02   | 02.00.00 | Roadway Excavation                                                                                                                      | CY    | 901,390 | 16.75     | 15,094,854 |
|      | 02.01.00 | Roadway Excavation - Load, Haul, Compact - Top Loading                                                                                  | CY    | 148,340 | 10.40     | 1,542,282  |
|      | 02.02.00 | Roadway Excavation - Load, Haul, Compact - Excess - Top Loading                                                                         | CY    | 662,910 | 10.32     | 6,839,685  |
|      | 02.03.00 | Roadway Excavation - Load, Haul, Waste - Organics - Scraper                                                                             | CY    | 90,140  | 6.57      | 592,590    |
|      | 02.04.00 | Roadway Excavation - Rock Cut - Drill and Shoot                                                                                         | CY    | 689,560 | 8.88      | 6,120,298  |
|      | 02.05.00 | Roadway Fill from Borrow - Load, Haul, Compact                                                                                          | CY    | -       |           | -          |
|      | 02.06.00 | Roadway Excavation (Causeway Removal of Alluvium Materials)                                                                             | CY    | -       |           | -          |
|      | 02.07.00 | Roadway Fill (Replacement of Alluvium with 10% Swell Factor)                                                                            | CY    | -       |           | -          |
| 03   | 03.00.00 | Causeway Protection                                                                                                                     |       |         |           | -          |
|      | 03.01.00 | RSP Fabric (Type A)                                                                                                                     | SY    | -       |           | -          |
|      | 03.02.00 | RSP Bedding No. 1 (Method B) - Zone 7A                                                                                                  | CY    | -       |           | -          |
|      | 03.03.00 | Rock Slope Protection (1/4 T, Method B) - Zone 7B                                                                                       | CY    | -       |           | -          |
| 04   | 04.00.00 | Pavement Structural Section                                                                                                             |       |         |           | 2,737,257  |
|      | 04.01.00 | Hot Mix Asphalt (Type A)                                                                                                                | TON   | 1,620   | 104.52    | 169,325    |
|      | 04.02.00 | Jointed Plain Concrete Pavement (A.K.A. PCC Pavement)                                                                                   | CY    | 3,640   | 394.18    | 1,434,830  |
|      | 04.03.00 | Seal Pavement Joint                                                                                                                     | LF    | 9,960   | 2.00      | 19,920     |
|      | 04.04.00 | Seal Longitudinal Isolation Joint                                                                                                       | LF    | 4,330   | 2.00      | 8,660      |
|      | 04.05.00 | Class 2 Aggregate Base                                                                                                                  | CY    | 8,640   | 86.41     | 746,582    |
|      | 04.06.00 | Shoulder Backing (Class 2 AB Material Daylight To Side Slope)                                                                           | TON   | 7,040   | 50.00     | 352,000    |
|      | 04.07.00 | Cold Plane Asphalt Concrete Pavement                                                                                                    | SY    | 450     | 3.00      | 1,350      |
|      | 04.08.00 | Tack Coat                                                                                                                               | TON   | 2       | 2,700.38  | 4,591      |
|      | 04.09.00 | Full Depth Reclamation-Cement                                                                                                           | SY    | -       |           | -          |
|      | 04.15.00 | Remove Base And Surfacing                                                                                                               | CY    | -       |           | -          |
|      | 04.16.00 | Obliterate Surfacing                                                                                                                    | SY    | -       |           | -          |
| 05   | 05.00.00 | Drainage                                                                                                                                |       |         |           | 548,111    |
|      | 05.01.00 | Remove Culvert                                                                                                                          | EA    | 2       | 1,950.00  | 3,900      |
|      | 05.02.00 | Abandon Culvert                                                                                                                         | EA    | -       |           | -          |
|      | 05.03.00 | 24" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                                                                               | LF    | 1,010   | 269.60    | 272,296    |
|      | 05.04.00 | 54" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                                                                               | LF    | 350     | 770.40    | 269,640    |
|      | 05.05.00 | Structural Concrete, Box Culvert (Single Cell)                                                                                          | CY    | -       |           | -          |
|      | 05.06.00 | Bar Reinforcing Steel (Box Culvert)                                                                                                     | LB    | -       |           | -          |
|      | 05.07.00 | Rock Pad Energy Dissipator (18" D X 5' W X 6' L)                                                                                        | CY    | 13      | 175.00    | 2,275      |
| 06   | 06.00.00 | Specialty Items                                                                                                                         |       |         |           | 106,663    |
|      | 06.01.00 | Treated Wood Waste                                                                                                                      | LB    | 1,230   | 0.50      | 615        |
|      | 06.02.00 | Remove Metal Beam Guard Railing                                                                                                         | LF    | 2,720   | 5.00      | 13,600     |
|      | 06.03.00 | Midwest Guardrail System (Wood Post) (Includes Transition Railing, Alternative Flared/In-Line Terminal System, And End Anchor Assembly) | LF    | 3,210   | 28.80     | 92,448     |
| 07   | 07.00.00 | Retaining Walls                                                                                                                         |       |         |           | 10,086,313 |
|      | 07.05.00 | Retaining Wall - MSE Wall                                                                                                               | SF    | -       |           | -          |
|      | 07.06.00 | Retaining Wall - Tie-Back Wall                                                                                                          | SF    | 87,415  | 115.38    | 10,086,313 |
| 08   | 08.00.00 | Traffic Items                                                                                                                           |       |         |           | 67,409     |
|      | 08.01.00 | Roadside Sign - One Post                                                                                                                | LF    | 4       | 3,500.00  | 14,000     |
|      | 08.02.00 | Two-Component Paint Traffic Stripe (6" Yellow), (Includes 2 Yellow Stripes And One Black)                                               | EA    | 7,800   | 1.97      | 15,350     |
|      | 08.03.00 | Two-Component Paint Traffic Stripe (6" White)                                                                                           | EA    | 15,190  | 0.66      | 9,965      |
|      | 08.04.00 | Two-Component Paint Pavement Marking                                                                                                    | SQFT  | 51      | 14.15     | 722        |
|      | 08.05.00 | Construction Area Signs                                                                                                                 | LS    | 1       | 13,686.29 | 13,686     |
|      | 08.06.00 | Portable Changeable Message Sign                                                                                                        | LS    | 1       | 6,843.14  | 6,843      |
|      | 08.07.00 | Traffic Control System                                                                                                                  | LS    | 1       | 6,843.14  | 6,843      |
| 09   | 09.00.00 | Detours - Install and Remove                                                                                                            |       |         |           | 374,456    |
|      | 09.01.00 | Temporary Hot Mix Asphalt (Type A)                                                                                                      | CY    | 860     | 129.60    | 111,456    |
|      | 09.02.00 | Temporary Class 2 Aggregate Base                                                                                                        | CY    | 2,630   | 100.00    | 263,000    |
| 10   | 10.00.00 | Bridges                                                                                                                                 |       |         |           | -          |
|      | 10.01.00 | Sites Lodoga Road Realignment - New Bridge - CIP PS Concrete Box Girder                                                                 | SF    | -       |           | -          |
|      | 10.02.00 | Road 69 - Replacement (Culver/Bridge)- PC/PS Concrete Slab Girder                                                                       | SF    | -       |           | -          |
|      | 10.03.00 | Road 69 - Replacement Bridge - PC/PS Concrete Box Girder                                                                                | SF    | -       |           | -          |
|      | 10.04.00 | Road 69 - Bridge Widening                                                                                                               | SF    | -       |           | -          |
|      | 10.05.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | SF    | -       |           | -          |
|      | 10.06.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | SF    | -       |           | -          |
|      | 10.07.00 | Funks Construction Access Road - New Bridge - PC/PS Concrete Box Girder                                                                 | SF    | -       |           | -          |
|      | 10.08.00 | Dam Spillway - New Bridge - PC/PS Concrete Slab Girder                                                                                  | SF    | -       |           | -          |
| 15   | 15.00.00 | ALLOWANCE FOR UNLISTED ITEMS                                                                                                            |       |         |           | 1,462,428  |
|      | 15.01.00 | Allowance for Unlisted Items                                                                                                            | %     | 5.0%    |           | 1,462,428  |
|      |          | Total Direct Cost                                                                                                                       | -     |         |           | 30,710,997 |

TOTAL ESTIMATE SUMMARY

| Item | Sub Item | Description                                                                       | Quantity | Unit  | Unit Rate   | Total         | Comment                                                  |
|------|----------|-----------------------------------------------------------------------------------|----------|-------|-------------|---------------|----------------------------------------------------------|
|      |          | Total Road Length                                                                 | 1.3      | Miles |             |               |                                                          |
|      |          | Total Road Length                                                                 | 6,701    | LF    |             |               |                                                          |
|      |          | Average Width                                                                     | 32       | Feet  |             |               |                                                          |
|      |          | Area                                                                              | 214,432  | SF    |             |               |                                                          |
| 01   | 01.00.00 | Preconstruction Activities                                                        |          |       | \$ -        | \$ 233,505    |                                                          |
|      | 01.01.00 | Clearing And Grubbing                                                             | 25       | ACRE  | \$ 8,000.00 | \$ 200,000    |                                                          |
|      | 01.02.00 | Temporary Silt Fence                                                              | 16,753   | LF    | \$ 2.00     | \$ 33,505     | Allowance by Estimating                                  |
| 02   | 02.00.00 | Roadway Excavation                                                                |          |       |             | \$ 15,094,854 |                                                          |
|      | 02.01.00 | Roadway Excavation - Load, Haul, Compact - Top Loading - 0.175 Mile Haul          | 148,340  | CY    | 10.40       | 1,542,282     | Includes Rock Excavation Load, Haul, Compact             |
|      | 02.02.00 | Roadway Excavation - Load, Haul, Compact - Excess - Top Loading - 0.175 Mile Haul | 662,910  | CY    | 10.32       | 6,839,685     | Includes Rock Excavation Load, Haul, Compact             |
|      | 02.03.00 | Roadway Excavation - Load, Haul, Waste - Organics - Scraper - 0.25 Mile Haul      | 90,140   | CY    | 6.57        | 592,590       |                                                          |
|      | 02.04.00 | Roadway Excavation - Rock Cut - Drill and Shoot                                   | 689,560  | CY    | 8.88        | 6,120,298     |                                                          |
|      | 02.04.10 | Drill Rock & Shoot                                                                | 689,560  | CY    | 8.88        | 6,120,298     | Drill and Shoot Only                                     |
|      | 02.04.20 | Load, Haul, Stockpile                                                             | -        | CY    | -           | -             | Load, haul, compact included above 02.01.00 and 02.02.00 |
|      | 02.05.00 | Roadway Fill from Borrow - Load, Haul, Compact                                    | -        | CY    | -           | -             |                                                          |
|      | 02.05.10 | Load, Haul, and Compact - Scraper - 0.5 Mile Haul                                 | -        | CY    | -           | -             |                                                          |
|      | 02.05.20 | Load, Haul, and Compact - Top Loading - 0.5 Mile Haul                             | -        | CY    | -           | -             |                                                          |
|      | 02.06.00 | Roadway Excavation (Causeway Removal of Alluvium Materials)                       | -        | CY    | -           | -             |                                                          |
|      | 02.07.00 | Roadway Fill (Replacement of Alluvium with 10% Swell Factor)                      | -        | CY    | -           | -             |                                                          |
| 03   | 03.00.00 | Causeway Protection                                                               |          |       |             | \$ -          |                                                          |
|      | 03.01.00 | RSP Fabric (Type A)                                                               | -        | SY    | \$ -        | \$ -          |                                                          |
|      | 03.02.00 | RSP Bedding No. 1 (Method B) - Zone 7A                                            | -        | CY    | \$ -        | \$ -          |                                                          |
|      | 03.02.01 | Blasting operations                                                               | -        | CY    | \$ 6.00     | \$ -          |                                                          |
|      | 03.02.02 | Excavate to Processing                                                            | -        | CY    | \$ 3.00     | \$ -          |                                                          |
|      | 03.02.03 | Process                                                                           | -        | CY    | \$ 30.00    | \$ -          |                                                          |
|      | 03.02.04 | Load, Haul, Place Bedding                                                         | -        | CY    | \$ -        | \$ -          |                                                          |
|      | 03.03.00 | Rock Slope Protection (1/4 T, Method B) - Zone 7B                                 | -        | CY    | \$ -        | \$ -          |                                                          |
|      | 03.03.01 | Blasting operations                                                               | -        | CY    | \$ 6.00     | \$ -          |                                                          |
|      | 03.03.02 | Excavate to Processing                                                            | -        | CY    | \$ 3.00     | \$ -          |                                                          |
|      | 03.03.03 | Process Riprap                                                                    | -        | CY    | \$ 32.00    | \$ -          |                                                          |
|      | 03.03.04 | Load, Haul, Place Rip Rap                                                         | -        | CY    | \$ -        | \$ -          |                                                          |
| 04   | 04.00.00 | Pavement Structural Section                                                       |          | CY    |             | \$ 2,737,257  |                                                          |
|      | 04.01.00 | Hot Mix Asphalt (Type A)                                                          | 1,620    | TON   | \$ 104.52   | \$ 169,325    |                                                          |
|      | 04.02.00 | Jointed Plain Concrete Pavement (A.K.A. PCC Pavement)                             | 3,640    | CY    | \$ 394.18   | \$ 1,434,830  |                                                          |
|      | 04.03.00 | Seal Pavement Joint                                                               | 9,960    | LF    | \$ 2.00     | \$ 19,920     |                                                          |
|      | 04.04.00 | Seal Longitudinal Isolation Joint                                                 | 4,330    | LF    | \$ 2.00     | \$ 8,660      |                                                          |
|      | 04.05.00 | Class 2 Aggregate Base                                                            | 8,640    | CY    | \$ 86.41    | \$ 746,582    | Haul 75 Miles, Direct Placement                          |
|      | 04.06.00 | Shoulder Backing (Class 2 AB Material Daylight To Side Slope)                     | 7,040    | TON   | \$ 50.00    | \$ 352,000    |                                                          |
|      | 04.07.00 | Cold Plane Asphalt Concrete Pavement                                              | 450      | SY    | \$ 3.00     | \$ 1,350      |                                                          |
|      | 04.08.00 | Tack Coat                                                                         | 2        | TON   | \$ 2,700.38 | \$ 4,591      |                                                          |
|      | 04.09.00 | Full Depth Reclamation-Cement                                                     | -        | SY    | \$ -        | \$ -          | Mixing, Compacting                                       |
|      | 04.10.00 | Cement (Full Depth Reclamation-Cement)                                            | -        | TON   |             |               | Included Above                                           |
|      | 04.11.00 | Supplementary Aggregate (Full Depth Recycling-Cement)                             | -        | TON   |             |               | Included Above                                           |
|      | 04.12.00 | Asphaltic Emulsion (Full Depth Recycling-Cement)                                  | -        | TON   |             |               | Included Above                                           |
|      | 04.13.00 | Sand Cover (Full-Depth Reclamation-Cement)                                        | -        | TON   |             |               | Included Above                                           |
|      | 04.14.00 | Mix Design (Full Depth Recycling-Cement)                                          | -        | LS    |             |               | Included Above                                           |
|      | 04.15.00 | Remove Base And Surfacing                                                         | -        | CY    | \$ 15.00    | \$ -          |                                                          |
|      | 04.16.00 | Obliterate Surfacing                                                              | -        | SY    | \$ 8.00     | \$ -          |                                                          |
| 05   | 05.00.00 | Drainage                                                                          |          |       |             | \$ 548,111    |                                                          |
|      | 05.01.00 | Remove Culvert                                                                    | 2        | EA    | \$ 1,950.00 | \$ 3,900      | Assume 30' Each                                          |
|      | 05.02.00 | Abandon Culvert                                                                   | -        | EA    | \$ 1,500.00 | \$ -          | Assume 30' Each                                          |
|      | 05.03.00 | 24" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                         | 1,010    | LF    | \$ 269.60   | \$ 272,296    |                                                          |
|      | 05.04.00 | 54" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                         | 350      | LF    | \$ 770.40   | \$ 269,640    |                                                          |
|      | 05.05.00 | Structural Concrete, Box Culvert (Single Cell)                                    | -        | CY    | \$ 2,000.00 | \$ -          |                                                          |
|      | 05.06.00 | Bar Reinforcing Steel (Box Culvert)                                               | -        | LB    | \$ 1.39     | \$ -          |                                                          |

TOTAL ESTIMATE SUMMARY

| Item              | Sub Item | Description                                                                                                                             | Quantity | Unit  | Unit Rate     | Total         | Comment                           |
|-------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------|----------|-------|---------------|---------------|-----------------------------------|
|                   | 05.07.00 | Rock Pad Energy Dissipator (18" D X 5' W X 6' L)                                                                                        | 13       | CY    | \$ 175.00     | \$ 2,275      |                                   |
| 06                | 06.00.00 | Specialty Items                                                                                                                         |          |       |               | \$ 106,663    |                                   |
|                   | 06.01.00 | Treated Wood Waste                                                                                                                      | 1,230    | LB    | \$ 0.50       | \$ 615        |                                   |
|                   | 06.02.00 | Remove Metal Beam Guard Railing                                                                                                         | 2,720    | LF    | \$ 5.00       | \$ 13,600     |                                   |
|                   | 06.03.00 | Midwest Guardrail System (Wood Post) (Includes Transition Railing, Alternative Flared/In-Line Terminal System, And End Anchor Assembly) | 3,210    | LF    | \$ 28.80      | \$ 92,448     |                                   |
| 07                | 07.00.00 | Retaining Walls                                                                                                                         |          |       |               | \$ 10,086,313 |                                   |
|                   | 07.05.00 | Retaining Wall - MSE Wall                                                                                                               | -        | SF    | \$ 134.62     | \$ -          | Allowance                         |
|                   | 07.06.00 | Retaining Wall - Tie-Back Wall                                                                                                          | 87,415   | SF    | \$ 115.38     | \$ 10,086,313 | Allowance                         |
| 08                | 08.00.00 | Traffic Items                                                                                                                           |          |       |               | \$ 67,409     |                                   |
|                   | 08.01.00 | Roadside Sign - One Post                                                                                                                | 4        | LF    | \$ 3,500.00   | \$ 14,000     |                                   |
|                   | 08.02.00 | Two-Component Paint Traffic Stripe (6" Yellow), (Includes 2 Yellow Stripes And One                                                      | 7,800    | EA    | \$ 1.97       | \$ 15,350     |                                   |
|                   | 08.03.00 | Two-Component Paint Traffic Stripe (6" White)                                                                                           | 15,190   | EA    | \$ 0.66       | \$ 9,965      |                                   |
|                   | 08.04.00 | Two-Component Paint Pavement Marking                                                                                                    | 51       | SQFT  | \$ 14.15      | \$ 722        |                                   |
|                   | 08.05.00 | Construction Area Signs                                                                                                                 | 1        | LS    | \$ 13,686.29  | \$ 13,686     | Allow 0.5% of Structural Section  |
|                   | 08.06.00 | Portable Changeable Message Sign                                                                                                        | 1        | LS    | \$ 6,843.14   | \$ 6,843      | Allow 0.25% of Structural Section |
|                   | 08.07.00 | Traffic Control System                                                                                                                  | 1        | LS    | \$ 6,843.14   | \$ 6,843      | Allow 0.25% of Structural Section |
| 09                | 09.00.00 | Detours - Install and Remove                                                                                                            |          |       |               | \$ 374,456    |                                   |
|                   | 09.01.00 | Temporary Hot Mix Asphalt (Type A)                                                                                                      | 860      | CY    | \$ 129.60     | \$ 111,456    |                                   |
|                   | 09.02.00 | Temporary Class 2 Aggregate Base                                                                                                        | 2,630    | CY    | \$ 100.00     | \$ 263,000    |                                   |
| 10                | 10.00.00 | Bridges                                                                                                                                 |          |       |               | \$ -          |                                   |
|                   | 10.01.00 | Sites Lodoga Road Realignment - New Bridge - CIP PS Concrete Box Girder                                                                 | -        | SF    | \$ 750.00     | \$ -          |                                   |
|                   | 10.02.00 | Road 69 - Replacement (Culver/Bridge)- PC/PS Concrete Slab Girder                                                                       | -        | SF    | \$ 416.67     | \$ -          |                                   |
|                   | 10.03.00 | Road 69 - Replacement Bridge - PC/PS Concrete Box Girder                                                                                | -        | SF    | \$ 583.33     | \$ -          |                                   |
|                   | 10.04.00 | Road 69 - Bridge Widening                                                                                                               | -        | SF    | \$ 50.00      | \$ -          |                                   |
|                   | 10.05.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | -        | SF    | \$ 583.33     | \$ -          |                                   |
|                   | 10.06.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | -        | SF    | \$ 583.33     | \$ -          |                                   |
|                   | 10.07.00 | Funks Construction Access Road - New Bridge - PC/PS Concrete Box Girder                                                                 | -        | SF    | \$ 500.00     | \$ -          |                                   |
|                   | 10.08.00 | Dam Spillway - New Bridge - PC/PS Concrete Slab Girder                                                                                  | -        | SF    | \$ 416.67     | \$ -          |                                   |
| 15                | 15.00.00 | ALLOWANCE FOR UNLISTED ITEMS                                                                                                            |          |       |               | \$ 1,462,428  |                                   |
|                   | 15.01.00 | Allowance for Unlisted Items                                                                                                            | 5.0%     | %     | \$ 29,248,569 | \$ 1,462,428  |                                   |
| Total Direct Cost |          |                                                                                                                                         | 1.27     | Miles | \$ 24,198,487 | \$ 30,710,997 |                                   |

Sites Reservoir: 27.1B - Sites Lodoga Road  
 30% Cost Estimate  
 Sites, CA

Cost Estimate  
 AACEI Class 3  
 February 28, 2025

# **TOTAL ESTIMATE SUMMARY**

|                                                           |                  |      |                    |
|-----------------------------------------------------------|------------------|------|--------------------|
| Total Direct Cost                                         |                  |      | 125,454,310        |
| <b>TOTAL DIRECT COST BEFORE CONTRACTOR INDIRECT COSTS</b> |                  |      | <b>125,454,310</b> |
| Mobilization                                              | 3.0%             |      | 3,763,629          |
| Field Overhead Costs (GC&GR)                              | 12.5%            |      | 16,152,242         |
| Insurance                                                 | 2.0%             |      | 2,907,404          |
| Bonds                                                     | 0.6%             |      | 889,666            |
| <b>Total Contractor Indirect Costs</b>                    |                  |      | <b>23,712,941</b>  |
| <b>TOTAL CONTACTOR COSTS</b>                              |                  |      | <b>149,167,251</b> |
| Home Office Overhead (G&A)                                | 5.5%             |      | 8,204,199          |
| GC Profit                                                 | 8.0%             |      | 12,589,716         |
| <b>Total Contractor Overhead and Profit</b>               |                  |      | <b>20,793,915</b>  |
| <b>TOTAL CONSTRUCTION COST BEFORE CONTINGENCIES</b>       |                  |      | <b>169,961,166</b> |
| Contingencies                                             |                  |      |                    |
| Design Contingencies                                      | 12.7%            |      | 21,585,068         |
| Construction Contingencies                                | 15.0%            |      | 28,731,935         |
| <b>Total Contingency Allowance</b>                        |                  |      | <b>50,317,003</b>  |
| <b>TOTAL COST BEFORE ESCALATION</b>                       |                  |      | <b>220,278,169</b> |
| Escalation to Mid-point of Construction                   | <i>By Others</i> | 0%   | -                  |
| <b>RECOMMENDED CONSTRUCTION BUDGET</b>                    |                  |      | <b>220,278,169</b> |
| Non-Contract Costs                                        | <i>By Others</i> | 0.0% | -                  |
| <b>TOTAL ESTIMATE</b>                                     |                  |      | <b>220,278,169</b> |

Sites Reservoir: 27.1B - Sites Lodoga Road  
30% Cost Estimate  
Sites, CA

Cost Estimate  
AAEII Class 3  
May 22, 2024

DIRECT COST LEVEL 2 SUMMARY

| Item | Sub Item | Description                                                                                                                             | UoM   | Qty       | Unit Rate | Total       |
|------|----------|-----------------------------------------------------------------------------------------------------------------------------------------|-------|-----------|-----------|-------------|
|      |          | Total Road Length                                                                                                                       | Miles | 6.2       |           | 20,257,896  |
|      |          | Total Road Length                                                                                                                       | LF    | 32,698    |           | 3,837       |
|      |          | Average Width                                                                                                                           | Feet  | 32        |           |             |
|      |          | Area                                                                                                                                    | SF    | 1,046,346 |           | 120         |
| 01   | 01.00.00 | Preconstruction Activities                                                                                                              |       |           |           | 1,203,492   |
|      | 01.01.00 | Clearing And Grubbing                                                                                                                   | ACRE  | 130       | 8,000.00  | 1,040,000   |
|      | 01.02.00 | Temporary Silt Fence                                                                                                                    | LF    | 81,746    | 2.00      | 163,492     |
| 02   | 02.00.00 | Roadway Excavation                                                                                                                      | CY    | 5,574,840 | 11.31     | 63,028,161  |
|      | 02.01.00 | Roadway Excavation - Load, Haul, Compact - Top Loading                                                                                  | CY    | 401,260   | 10.28     | 4,123,928   |
|      | 02.02.00 | Roadway Excavation - Load, Haul, Compact - Excess - Top Loading                                                                         | CY    | 711,240   | 10.32     | 7,342,603   |
|      | 02.03.00 | Roadway Excavation - Load, Haul, Waste - Organics - Scraper                                                                             | CY    | 123,610   | 6.65      | 821,979     |
|      | 02.04.00 | Roadway Excavation - Rock Cut - Drill and Shoot                                                                                         | CY    | 801,910   | 8.88      | 7,117,276   |
|      | 02.05.00 | Roadway Fill from Borrow - Load, Haul, Compact                                                                                          | CY    | 4,232,770 | 9.79      | 41,421,858  |
|      | 02.06.00 | Roadway Excavation (Causeway Removal of Alluvium Materials)                                                                             | CY    | 105,960   | 9.34      | 989,953     |
|      | 02.07.00 | Roadway Fill (Replacement of Alluvium with 10% Swell Factor)                                                                            | CY    | 116,550   | 10.39     | 1,210,564   |
| 03   | 03.00.00 | Causeway Protection                                                                                                                     |       |           |           | 40,281,090  |
|      | 03.01.00 | RSP Fabric (Type A)                                                                                                                     | SY    | 307,500   | 3.58      | 1,099,509   |
|      | 03.02.00 | RSP Bedding No. 1 (Method B) - Zone 7A                                                                                                  | CY    | 199,180   | 61.46     | 12,242,195  |
|      | 03.03.00 | Rock Slope Protection (1/4 T, Method B) - Zone 7B                                                                                       | CY    | 398,350   | 67.63     | 26,939,385  |
| 04   | 04.00.00 | Pavement Structural Section                                                                                                             |       |           |           | 7,708,005   |
|      | 04.01.00 | Hot Mix Asphalt (Type A)                                                                                                                | TON   | 24,260    | 103.74    | 2,516,802   |
|      | 04.02.00 | Jointed Plain Concrete Pavement (A.K.A. PCC Pavement)                                                                                   | CY    | -         | -         | -           |
|      | 04.03.00 | Seal Pavement Joint                                                                                                                     | LF    | -         | -         | -           |
|      | 04.04.00 | Seal Longitudinal Isolation Joint                                                                                                       | LF    | -         | -         | -           |
|      | 04.05.00 | Class 2 Aggregate Base                                                                                                                  | CY    | 40,240    | 85.88     | 3,455,736   |
|      | 04.06.00 | Shoulder Backing (Class 2 AB Material Daylight To Side Slope)                                                                           | TON   | 25,580    | 50.00     | 1,279,000   |
|      | 04.07.00 | Cold Plane Asphalt Concrete Pavement                                                                                                    | SY    | 92,120    | 3.00      | 276,360     |
|      | 04.08.00 | Tack Coat                                                                                                                               | TON   | 18        | 2,127.09  | 38,288      |
|      | 04.09.00 | Full Depth Reclamation-Cement                                                                                                           | SY    | 10,240    | 13.85     | 141,819     |
|      | 04.15.00 | Remove Base And Surfacing                                                                                                               | CY    | -         | -         | -           |
|      | 04.16.00 | Obliterate Surfacing                                                                                                                    | SY    | -         | -         | -           |
| 05   | 05.00.00 | Drainage                                                                                                                                |       |           |           | 882,100     |
|      | 05.01.00 | Remove Culvert                                                                                                                          | EA    | 34        | 1,950.00  | 66,300      |
|      | 05.02.00 | Abandon Culvert                                                                                                                         | EA    | -         | -         | -           |
|      | 05.03.00 | 24" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                                                                               | LF    | 3,000     | 269.60    | 808,800     |
|      | 05.04.00 | 54" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                                                                               | LF    | -         | -         | -           |
|      | 05.05.00 | Structural Concrete, Box Culvert (Single Cell)                                                                                          | CY    | -         | -         | -           |
|      | 05.06.00 | Bar Reinforcing Steel (Box Culvert)                                                                                                     | LB    | -         | -         | -           |
|      | 05.07.00 | Rock Pad Energy Dissipator (18" D X 5' W X 6' L)                                                                                        | CY    | 40        | 175.00    | 7,000       |
| 06   | 06.00.00 | Specialty Items                                                                                                                         |       |           |           | 193,207     |
|      | 06.01.00 | Treated Wood Waste                                                                                                                      | LB    | 4,030     | 0.50      | 2,015       |
|      | 06.02.00 | Remove Metal Beam Guard Railing                                                                                                         | LF    | 280       | 5.00      | 1,400       |
|      | 06.03.00 | Midwest Guardrail System (Wood Post) (Includes Transition Railing, Alternative Flared/In-Line Terminal System, And End Anchor Assembly) | LF    | 6,590     | 28.80     | 189,792     |
| 07   | 07.00.00 | Retaining Walls                                                                                                                         |       |           |           | 5,943,922   |
|      | 07.05.00 | Retaining Wall - MSE Wall                                                                                                               | SF    | -         | -         | -           |
|      | 07.06.00 | Retaining Wall - Tie-Back Wall                                                                                                          | SF    | 51,514    | 115.38    | 5,943,922   |
| 08   | 08.00.00 | Traffic Items                                                                                                                           |       |           |           | 240,318     |
|      | 08.01.00 | Roadside Sign - One Post                                                                                                                | LF    | 16        | 3,500.00  | 57,117      |
|      | 08.02.00 | Two-Component Paint Traffic Stripe (6" Yellow), (Includes 2 Yellow Stripes And One Black)                                               | EA    | 32,570    | 1.97      | 64,098      |
|      | 08.03.00 | Two-Component Paint Traffic Stripe (6" White)                                                                                           | EA    | 64,060    | 0.66      | 42,023      |
|      | 08.04.00 | Two-Component Paint Pavement Marking                                                                                                    | SQFT  | -         | -         | -           |
|      | 08.05.00 | Construction Area Signs                                                                                                                 | LS    | 1         | 38,540.03 | 38,540      |
|      | 08.06.00 | Portable Changeable Message Sign                                                                                                        | LS    | 1         | 19,270.01 | 19,270      |
|      | 08.07.00 | Traffic Control System                                                                                                                  | LS    | 1         | 19,270.01 | 19,270      |
| 09   | 09.00.00 | Detours - Install and Remove                                                                                                            |       |           |           | -           |
|      | 09.01.00 | Temporary Hot Mix Asphalt (Type A)                                                                                                      | CY    | -         | -         | -           |
|      | 09.02.00 | Temporary Class 2 Aggregate Base                                                                                                        | CY    | -         | -         | -           |
| 10   | 10.00.00 | Bridges                                                                                                                                 |       |           |           | -           |
|      | 10.01.00 | Sites Lodoga Road Realignment - New Bridge - CIP PS Concrete Box Girder                                                                 | SF    | -         | -         | -           |
|      | 10.02.00 | Road 69 - Replacement (Culver/Bridge)- PC/PS Concrete Slab Girder                                                                       | SF    | -         | -         | -           |
|      | 10.03.00 | Road 69 - Replacement Bridge - PC/PS Concrete Box Girder                                                                                | SF    | -         | -         | -           |
|      | 10.04.00 | Road 69 - Bridge Widening                                                                                                               | SF    | -         | -         | -           |
|      | 10.05.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | SF    | -         | -         | -           |
|      | 10.06.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | SF    | -         | -         | -           |
|      | 10.07.00 | Funks Construction Access Road - New Bridge - PC/PS Concrete Box Girder                                                                 | SF    | -         | -         | -           |
|      | 10.08.00 | Dam Spillway - New Bridge - PC/PS Concrete Slab Girder                                                                                  | SF    | -         | -         | -           |
| 15   | 15.00.00 | ALLOWANCE FOR UNLISTED ITEMS                                                                                                            |       |           |           | 5,974,015   |
|      | 15.01.00 | Allowance for Unlisted Items                                                                                                            | %     | 5.0%      |           | 5,974,015   |
|      |          | Total Direct Cost                                                                                                                       | -     |           |           | 125,454,310 |

TOTAL ESTIMATE SUMMARY

| Item | Sub Item | Description                                                                       | Quantity  | Unit  | Unit Rate   | Total         | Comment                                                  |
|------|----------|-----------------------------------------------------------------------------------|-----------|-------|-------------|---------------|----------------------------------------------------------|
|      |          | Total Road Length                                                                 | 6.2       | Miles |             |               |                                                          |
|      |          | Total Road Length                                                                 | 32,698    | LF    |             |               |                                                          |
|      |          | Average Width                                                                     | 32        | Feet  |             |               |                                                          |
|      |          | Area                                                                              | 1,046,346 | SF    |             |               |                                                          |
| 01   | 01.00.00 | Preconstruction Activities                                                        |           |       | \$ -        | \$ 1,203,492  |                                                          |
|      | 01.01.00 | Clearing And Grubbing                                                             | 130       | ACRE  | \$ 8,000.00 | \$ 1,040,000  |                                                          |
|      | 01.02.00 | Temporary Silt Fence                                                              | 81,746    | LF    | \$ 2.00     | \$ 163,492    | Allowance by Estimating                                  |
| 02   | 02.00.00 | Roadway Excavation                                                                |           |       |             | \$ 63,028,161 |                                                          |
|      | 02.01.00 | Roadway Excavation - Load, Haul, Compact - Top Loading - 0.175 Mile Haul          | 401,260   | CY    | 10.28       | 4,123,928     | Includes Rock Excavation Load, Haul, Compact             |
|      | 02.02.00 | Roadway Excavation - Load, Haul, Compact - Excess - Top Loading - 0.175 Mile Haul | 711,240   | CY    | 10.32       | 7,342,603     | Includes Rock Excavation Load, Haul, Compact             |
|      | 02.03.00 | Roadway Excavation - Load, Haul, Waste - Organics - Scraper - 0.25 Mile Haul      | 123,610   | CY    | 6.65        | 821,979       |                                                          |
|      | 02.04.00 | Roadway Excavation - Rock Cut - Drill and Shoot                                   | 801,910   | CY    | 8.88        | 7,117,276     |                                                          |
|      | 02.04.10 | Drill Rock & Shoot                                                                | 801,910   | CY    | 8.88        | 7,117,276     | Drill and Shoot Only                                     |
|      | 02.04.20 | Load, Haul, Stockpile                                                             | -         | CY    | -           | -             | Load, haul, compact included above 02.01.00 and 02.02.00 |
|      | 02.05.00 | Roadway Fill from Borrow - Load, Haul, Compact                                    | 4,232,770 | CY    | 9.79        | 41,421,858    |                                                          |
|      | 02.05.10 | Load, Haul, and Compact - Scraper - 0.5 Mile Haul                                 | 2,116,385 | CY    | 8.04        | 17,009,549    |                                                          |
|      | 02.05.20 | Load, Haul, and Compact - Top Loading - 0.5 Mile Haul                             | 2,116,385 | CY    | 11.53       | 24,412,309    |                                                          |
|      | 02.06.00 | Roadway Excavation (Causeway Removal of Alluvium Materials)                       | 105,960   | CY    | 9.34        | 989,953       |                                                          |
|      | 02.07.00 | Roadway Fill (Replacement of Alluvium with 10% Swell Factor)                      | 116,550   | CY    | 10.39       | 1,210,564     |                                                          |
| 03   | 03.00.00 | Causeway Protection                                                               |           |       |             | \$ 40,281,090 |                                                          |
|      | 03.01.00 | RSP Fabric (Type A)                                                               | 307,500   | SY    | \$ 3.58     | \$ 1,099,509  |                                                          |
|      | 03.02.00 | RSP Bedding No. 1 (Method B) - Zone 7A                                            | 199,180   | CY    | \$ 61.46    | \$ 12,242,195 |                                                          |
|      | 03.02.01 | Blasting operations                                                               | 199,180   | CY    | \$ 6.00     | \$ 1,195,080  |                                                          |
|      | 03.02.02 | Excavate to Processing                                                            | 199,180   | CY    | \$ 3.00     | \$ 597,540    |                                                          |
|      | 03.02.03 | Process                                                                           | 199,180   | CY    | \$ 30.00    | \$ 5,975,400  |                                                          |
|      | 03.02.04 | Load, Haul, Place Bedding                                                         | 199,180   | CY    | \$ 22.46    | \$ 4,474,175  |                                                          |
|      | 03.03.00 | Rock Slope Protection (1/4 T, Method B) - Zone 7B                                 | 398,350   | CY    | \$ 67.63    | \$ 26,939,385 |                                                          |
|      | 03.03.01 | Blasting operations                                                               | 398,350   | CY    | \$ 6.00     | \$ 2,390,100  |                                                          |
|      | 03.03.02 | Excavate to Processing                                                            | 398,350   | CY    | \$ 3.00     | \$ 1,195,050  |                                                          |
|      | 03.03.03 | Process Riprap                                                                    | 398,350   | CY    | \$ 32.00    | \$ 12,747,200 |                                                          |
|      | 03.03.04 | Load, Haul, Place Rip Rap                                                         | 398,350   | CY    | \$ 26.63    | \$ 10,607,035 |                                                          |
| 04   | 04.00.00 | Pavement Structural Section                                                       |           | CY    |             | \$ 7,708,005  |                                                          |
|      | 04.01.00 | Hot Mix Asphalt (Type A)                                                          | 24,260    | TON   | \$ 103.74   | \$ 2,516,802  |                                                          |
|      | 04.02.00 | Jointed Plain Concrete Pavement (A.K.A. PCC Pavement)                             | -         | CY    | \$ -        | \$ -          |                                                          |
|      | 04.03.00 | Seal Pavement Joint                                                               | -         | LF    | \$ 2.00     | \$ -          |                                                          |
|      | 04.04.00 | Seal Longitudinal Isolation Joint                                                 | -         | LF    | \$ 2.00     | \$ -          |                                                          |
|      | 04.05.00 | Class 2 Aggregate Base                                                            | 40,240    | CY    | \$ 85.88    | \$ 3,455,736  | Haul 75 Miles, Direct Placement                          |
|      | 04.06.00 | Shoulder Backing (Class 2 AB Material Daylight To Side Slope)                     | 25,580    | TON   | \$ 50.00    | \$ 1,279,000  |                                                          |
|      | 04.07.00 | Cold Plane Asphalt Concrete Pavement                                              | 92,120    | SY    | \$ 3.00     | \$ 276,360    |                                                          |
|      | 04.08.00 | Tack Coat                                                                         | 18        | TON   | \$ 2,127.09 | \$ 38,288     |                                                          |
|      | 04.09.00 | Full Depth Reclamation-Cement                                                     | 10,240    | SY    | \$ 13.85    | \$ 141,819    | Mixing, Compacting                                       |
|      | 04.10.00 | Cement (Full Depth Reclamation-Cement)                                            | 220       | TON   |             |               | Included Above                                           |
|      | 04.11.00 | Supplementary Aggregate (Full Depth Recycling-Cement)                             | -         | TON   |             |               | Included Above                                           |
|      | 04.12.00 | Asphaltic Emulsion (Full Depth Recycling-Cement)                                  | 6         | TON   |             |               | Included Above                                           |
|      | 04.13.00 | Sand Cover (Full-Depth Reclamation-Cement)                                        | 8         | TON   |             |               | Included Above                                           |
|      | 04.14.00 | Mix Design (Full Depth Recycling-Cement)                                          | 1         | LS    |             |               | Included Above                                           |
|      | 04.15.00 | Remove Base And Surfacing                                                         | -         | CY    | \$ 15.00    | \$ -          |                                                          |
|      | 04.16.00 | Obliterate Surfacing                                                              | -         | SY    | \$ 8.00     | \$ -          |                                                          |
| 05   | 05.00.00 | Drainage                                                                          |           |       |             | \$ 882,100    |                                                          |
|      | 05.01.00 | Remove Culvert                                                                    | 34        | EA    | \$ 1,950.00 | \$ 66,300     | Assume 30' Each                                          |
|      | 05.02.00 | Abandon Culvert                                                                   | -         | EA    | \$ 1,500.00 | \$ -          | Assume 30' Each                                          |
|      | 05.03.00 | 24" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                         | 3,000     | LF    | \$ 269.60   | \$ 808,800    |                                                          |
|      | 05.04.00 | 54" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                         | -         | LF    | \$ 770.40   | \$ -          |                                                          |
|      | 05.05.00 | Structural Concrete, Box Culvert (Single Cell)                                    | -         | CY    | \$ 2,000.00 | \$ -          |                                                          |
|      | 05.06.00 | Bar Reinforcing Steel (Box Culvert)                                               | -         | LB    | \$ 1.39     | \$ -          |                                                          |

TOTAL ESTIMATE SUMMARY

| Item              | Sub Item | Description                                                                                                                             | Quantity | Unit  | Unit Rate      | Total          | Comment                           |
|-------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------|----------|-------|----------------|----------------|-----------------------------------|
|                   | 05.07.00 | Rock Pad Energy Dissipator (18" D X 5' W X 6' L)                                                                                        | 40       | CY    | \$ 175.00      | \$ 7,000       |                                   |
| 06                | 06.00.00 | Specialty Items                                                                                                                         |          |       |                | \$ 193,207     |                                   |
|                   | 06.01.00 | Treated Wood Waste                                                                                                                      | 4,030    | LB    | \$ 0.50        | \$ 2,015       |                                   |
|                   | 06.02.00 | Remove Metal Beam Guard Railing                                                                                                         | 280      | LF    | \$ 5.00        | \$ 1,400       |                                   |
|                   | 06.03.00 | Midwest Guardrail System (Wood Post) (Includes Transition Railing, Alternative Flared/In-Line Terminal System, And End Anchor Assembly) | 6,590    | LF    | \$ 28.80       | \$ 189,792     |                                   |
| 07                | 07.00.00 | Retaining Walls                                                                                                                         |          |       |                | \$ 5,943,922   |                                   |
|                   | 07.05.00 | Retaining Wall - MSE Wall                                                                                                               | -        | SF    | \$ 134.62      | \$ -           | Allowance                         |
|                   | 07.06.00 | Retaining Wall - Tie-Back Wall                                                                                                          | 51,514   | SF    | \$ 115.38      | \$ 5,943,922   | Allowance                         |
| 08                | 08.00.00 | Traffic Items                                                                                                                           |          |       |                | \$ 240,318     |                                   |
|                   | 08.01.00 | Roadside Sign - One Post                                                                                                                | 16       | LF    | \$ 3,500.00    | \$ 57,117      |                                   |
|                   | 08.02.00 | Two-Component Paint Traffic Stripe (6" Yellow), (Includes 2 Yellow Stripes And One                                                      | 32,570   | EA    | \$ 1.97        | \$ 64,098      |                                   |
|                   | 08.03.00 | Two-Component Paint Traffic Stripe (6" White)                                                                                           | 64,060   | EA    | \$ 0.66        | \$ 42,023      |                                   |
|                   | 08.04.00 | Two-Component Paint Pavement Marking                                                                                                    | -        | SQFT  | \$ 14.15       | \$ -           |                                   |
|                   | 08.05.00 | Construction Area Signs                                                                                                                 | 1        | LS    | \$ 38,540.03   | \$ 38,540      | Allow 0.5% of Structural Section  |
|                   | 08.06.00 | Portable Changeable Message Sign                                                                                                        | 1        | LS    | \$ 19,270.01   | \$ 19,270      | Allow 0.25% of Structural Section |
|                   | 08.07.00 | Traffic Control System                                                                                                                  | 1        | LS    | \$ 19,270.01   | \$ 19,270      | Allow 0.25% of Structural Section |
| 09                | 09.00.00 | Detours - Install and Remove                                                                                                            |          |       |                | \$ -           |                                   |
|                   | 09.01.00 | Temporary Hot Mix Asphalt (Type A)                                                                                                      | -        | CY    | \$ 129.60      | \$ -           |                                   |
|                   | 09.02.00 | Temporary Class 2 Aggregate Base                                                                                                        | -        | CY    | \$ 100.00      | \$ -           |                                   |
| 10                | 10.00.00 | Bridges                                                                                                                                 |          |       |                | \$ -           |                                   |
|                   | 10.01.00 | Sites Lodoga Road Realignment - New Bridge - CIP PS Concrete Box Girder                                                                 | -        | SF    | \$ 750.00      | \$ -           |                                   |
|                   | 10.02.00 | Road 69 - Replacement (Culver/Bridge)- PC/PS Concrete Slab Girder                                                                       | -        | SF    | \$ 416.67      | \$ -           |                                   |
|                   | 10.03.00 | Road 69 - Replacement Bridge - PC/PS Concrete Box Girder                                                                                | -        | SF    | \$ 583.33      | \$ -           |                                   |
|                   | 10.04.00 | Road 69 - Bridge Widening                                                                                                               | -        | SF    | \$ 50.00       | \$ -           |                                   |
|                   | 10.05.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | -        | SF    | \$ 583.33      | \$ -           |                                   |
|                   | 10.06.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | -        | SF    | \$ 583.33      | \$ -           |                                   |
|                   | 10.07.00 | Funks Construction Access Road - New Bridge - PC/PS Concrete Box Girder                                                                 | -        | SF    | \$ 500.00      | \$ -           |                                   |
|                   | 10.08.00 | Dam Spillway - New Bridge - PC/PS Concrete Slab Girder                                                                                  | -        | SF    | \$ 416.67      | \$ -           |                                   |
| 15                | 15.00.00 | ALLOWANCE FOR UNLISTED ITEMS                                                                                                            |          |       |                | \$ 5,974,015   |                                   |
|                   | 15.01.00 | Allowance for Unlisted Items                                                                                                            | 5.0%     | %     | \$ 119,480,295 | \$ 5,974,015   |                                   |
| Total Direct Cost |          |                                                                                                                                         | 6.19     | Miles | \$ 20,257,896  | \$ 125,454,310 |                                   |

Sites Reservoir: 27.1.C - Sites Lodoga Bridge  
30% Cost Estimate  
Sites, CA

Cost Estimate  
AAECI Class 3  
February 28, 2025

**TOTAL ESTIMATE SUMMARY**

|                   |             |
|-------------------|-------------|
| Total Direct Cost | 100,861,991 |
|-------------------|-------------|

|                                                    |             |
|----------------------------------------------------|-------------|
| TOTAL DIRECT COST BEFORE CONTRACTOR INDIRECT COSTS | 100,861,991 |
|----------------------------------------------------|-------------|

|                              |       |            |
|------------------------------|-------|------------|
| Mobilization                 | 5.0%  | 5,043,100  |
| Field Overhead Costs (GC&GR) | 17.0% | 18,003,865 |
| Insurance                    | 2.0%  | 2,478,179  |
| Bonds                        | 0.6%  | 758,323    |

|                                 |            |
|---------------------------------|------------|
| Total Contractor Indirect Costs | 26,283,467 |
|---------------------------------|------------|

|                       |             |
|-----------------------|-------------|
| TOTAL CONTACTOR COSTS | 127,145,458 |
|-----------------------|-------------|

|                            |       |            |
|----------------------------|-------|------------|
| Home Office Overhead (G&A) | 6.5%  | 8,264,455  |
| GC Profit                  | 10.0% | 13,540,991 |

|                                      |            |
|--------------------------------------|------------|
| Total Contractor Overhead and Profit | 21,805,446 |
|--------------------------------------|------------|

|                                              |             |
|----------------------------------------------|-------------|
| TOTAL CONSTRUCTION COST BEFORE CONTINGENCIES | 148,950,904 |
|----------------------------------------------|-------------|

|                            |       |            |
|----------------------------|-------|------------|
| Contingencies              |       |            |
| Design Contingencies       | 12.7% | 18,916,765 |
| Construction Contingencies | 15.0% | 25,180,150 |

|                             |            |
|-----------------------------|------------|
| Total Contingency Allowance | 44,096,915 |
|-----------------------------|------------|

|                              |             |
|------------------------------|-------------|
| TOTAL COST BEFORE ESCALATION | 193,047,819 |
|------------------------------|-------------|

|                                         |           |    |   |
|-----------------------------------------|-----------|----|---|
| Escalation to Mid-point of Construction | By Others | 0% | - |
|-----------------------------------------|-----------|----|---|

|                                 |             |
|---------------------------------|-------------|
| RECOMMENDED CONSTRUCTION BUDGET | 193,047,819 |
|---------------------------------|-------------|

|                    |           |      |   |
|--------------------|-----------|------|---|
| Non-Contract Costs | By Others | 0.0% | - |
|--------------------|-----------|------|---|

|                |             |
|----------------|-------------|
| TOTAL ESTIMATE | 193,047,819 |
|----------------|-------------|

Sites Reservoir: 27.1.C - Sites Lodoga Bridge  
30% Cost Estimate  
Sites, CA

Cost Estimate  
AACEI Class 3  
May 22, 2024

DIRECT COST LEVEL 2 SUMMARY

| Item              | Sub Item | Description                                            | UoM   | 30% Cost Estimate |            |             |
|-------------------|----------|--------------------------------------------------------|-------|-------------------|------------|-------------|
|                   |          |                                                        |       | Qty               | Unit Rate  | Total       |
| 01                | 01.00.00 | PRECONSTRUCTION ACTIVITIES                             |       |                   |            | 2,141,040   |
|                   | 01.01.00 | Demolition Work                                        | LS    | -                 |            | Elsewhere   |
|                   | 01.02.00 | Clearing and Grubbing                                  | ACRE  | 40                | 4,741      | 189,640     |
|                   | 01.03.00 | Reservoir Clearing                                     | ACRE  | -                 |            | -           |
|                   | 01.04.00 | Erosion and Sediment Control                           | ACRE  | 40                | 46,000     | 1,840,000   |
|                   | 01.05.00 | Developing haul routes - Haul routes inside reservoir  | ACRES | 10                | 11,140     | 111,400     |
|                   | 01.06.00 | Developing haul routes - Haul routes outside reservoir | ACRES | -                 |            | -           |
| 02                | 02.00.00 | FOUNDATION EXCAVATION                                  |       |                   |            | 1,426,782   |
|                   | 02.01.00 | Structure Excavation (Bridge)                          | CY    | 20,137            | 46         | 926,302     |
|                   | 02.02.00 | Structure Backfill (Bridge)                            | CY    | 8,704             | 58         | 500,480     |
| 03                | 03.00.00 | PILING                                                 |       |                   |            | 21,513,743  |
|                   | 03.01.00 | 24" CIDH Piles                                         | BCY   | 74,064            | 264        | 19,550,702  |
|                   | 03.02.00 | Driven Piles - Class 200 - 16"                         | LF    | 4,950             | 178        | 882,681     |
|                   | 03.03.00 | Driven Piles - Class 90 - 16"                          | CY    | 8,280             | 130        | 1,080,360   |
| 04                | 04.00.00 | BRIDGE FOUNDATIONS                                     |       |                   |            | 11,789,017  |
|                   | 04.01.00 | Bridge Footings                                        | BCY   | 11,112            | 1,061      | 11,789,017  |
| 05                | 05.00.00 | BRIDGE STRUCTURE                                       |       |                   |            | 56,692,325  |
|                   | 05.01.00 | Bridge Columns                                         | CY    | 16,343            | 1,874      | 30,624,739  |
|                   | 05.02.00 | Bridge Girders - Precast - Directly Placed             | EA    | 40                | 64,977     | 2,599,072   |
|                   | 05.03.00 | Bridge Girders - Precast - Spliced on Site and Placed  | EA    | 68                | 170,698    | 11,607,452  |
|                   | 05.04.00 | Bridge Deck - Polymer Fiber Concrete                   | CY    | 6,317             | 1,764      | 11,144,212  |
|                   | 05.05.00 | Joint Seals                                            | LF    | 426               | 1,685      | 716,850     |
| 06                | 06.00.00 | APPROACH WORK                                          |       |                   |            | 767,773     |
|                   | 06.01.00 | Retaining Wall                                         | CY    | 217               | 2,293      | 498,589     |
|                   | 06.02.00 | Approach Slab                                          | CY    | 197               | 1,365      | 269,184     |
| 07                | 07.00.00 | GENERAL BRIDGE WORK                                    |       |                   |            | 1,728,360   |
|                   | 07.01.00 | Concrete Barrier                                       | LF    | 9,602             | 124        | 1,190,648   |
|                   | 07.02.00 | Chain Link Railing                                     | LF    | 9,602             | 56         | 537,712     |
| 08                | 08.00.00 | ALLOWANCE FOR UNLISTED ITEMS                           |       |                   |            | 4,802,952   |
|                   | 08.01.00 | Allowance for Unlisted Items                           | %     | 5%                | 96,059,039 | 4,802,952   |
| Total Direct Cost |          |                                                        |       |                   |            | 100,861,991 |

DIRECT COST LEVEL 3 SUMMARY

| Item | Sub Item | Description                                             | Quantity | Unit  | Unit Rate     | Total         | Comment                   |
|------|----------|---------------------------------------------------------|----------|-------|---------------|---------------|---------------------------|
|      |          | Total Bridge Length                                     | 4,681    | LF    |               | \$ 21,547     | Cost/LF                   |
|      |          | Total Bridge Width                                      | 107      | LF    |               |               |                           |
|      |          | Total Area                                              | 166,176  | SF    |               | \$ 607        | Direct Cost/SF            |
|      |          | Total Cost/LF before Contingencies                      |          |       |               | \$ 31,820     |                           |
|      |          | Total Cost/SF before Contingencies                      |          |       |               | \$ 896        |                           |
| 01   | 01.00.00 | PRECONSTRUCTION ACTIVITIES                              | 1        | LS    | \$ 2,141,040  | \$ 2,141,040  |                           |
|      | 01.01.00 | Demolition Work                                         | -        | LS    |               | Elsewhere     | Included in Demo Estimate |
|      | 01.02.00 | Clearing and Grubbing                                   | 40       | ACRE  | \$ 4,741.00   | \$ 189,640    | Vegetation removal        |
|      | 01.03.00 | Reservoir Clearing                                      | -        | ACRE  | \$ -          | \$ -          | Included in Demo Estimate |
|      | 01.04.00 | Erosion and Sediment Control                            | 40       | ACRE  | \$ 46,000.00  | \$ 1,840,000  |                           |
|      | 01.05.00 | Developing haul routes - Haul routes inside reservoir   | 10       | ACRES | \$ 11,140.00  | \$ 111,400    |                           |
|      | 01.06.00 | Developing haul routes - Haul routes outside reservoir  | -        | ACRES | \$ 11,140.00  | \$ -          |                           |
| 02   | 02.00.00 | FOUNDATION EXCAVATION                                   |          |       |               | \$ 1,426,782  |                           |
|      | 02.01.00 | Structure Excavation (Bridge)                           | 20,137   | CY    | \$ 46.00      | \$ 926,302    |                           |
|      | 02.02.00 | Structure Backfill (Bridge)                             | 8,704    | CY    | \$ 57.50      | \$ 500,480    |                           |
| 03   | 03.00.00 | PILING                                                  |          |       |               | \$ 21,513,743 |                           |
|      | 03.01.00 | 24" CIDH Piles                                          | 74,064   | LF    | \$ 263.97     | \$ 19,550,702 |                           |
|      | 03.01.10 | Drill - 24"                                             | 74,064   | LF    | \$ 150.00     | \$ 11,109,600 |                           |
|      | 03.01.20 | Rebar                                                   | 1,723    | TON   | \$ 2,400.00   | \$ 4,134,417  |                           |
|      | 03.01.30 | Pour                                                    | 8,613    | CY    | \$ 500.00     | \$ 4,306,684  |                           |
|      | 03.02.00 | Driven Piles - Class 200 - 16"                          | 4,950    | LF    | \$ 178.32     | \$ 882,681    |                           |
|      | 03.02.10 | Drive - 16"                                             | 110      | EA    | \$ 2,811.22   | \$ 309,234    |                           |
|      | 03.02.30 | Purchase 16"                                            | 4,950    | LF    | \$ 115.85     | \$ 573,448    |                           |
|      | 03.03.00 | Driven Piles - Class 90 - 16"                           | 8,280    | LF    | \$ 130.48     | \$ 1,080,360  |                           |
|      | 03.03.10 | Drive - 16"                                             | 184      | EA    | \$ 2,658.52   | \$ 489,168    |                           |
|      | 03.03.30 | Purchase 16"                                            | 8,280    | LF    | \$ 71.40      | \$ 591,192    |                           |
| 04   | 04.00.00 | BRIDGE FOUNDATIONS                                      |          |       |               | \$ 11,789,017 |                           |
|      | 04.01.00 | Bridge Footings                                         | 11,112   | BCY   | \$ 1,060.89   | \$ 11,789,017 |                           |
|      | 04.01.10 | Concrete - Footing                                      | 11,112   | CY    | \$ 337.00     | \$ 3,744,882  |                           |
|      | 04.01.20 | Rebar                                                   | 2,284    | TON   | \$ 2,525.00   | \$ 5,766,091  | 411 Lbs/CY                |
|      | 04.01.30 | Formwork                                                | 55,562   | SF    | \$ 41.00      | \$ 2,278,044  | 5 SF/CY                   |
| 05   | 05.00.00 | BRIDGE STRUCTURE                                        |          |       |               | \$ 56,692,325 |                           |
|      | 05.01.00 | Bridge Columns                                          | 16,343   | CY    | \$ 1,873.88   | \$ 30,624,739 |                           |
|      | 05.01.10 | Concrete - Columns                                      | 16,343   | CY    | \$ 507.00     | \$ 8,285,901  |                           |
|      | 05.01.20 | Rebar                                                   | 3,358    | TON   | \$ 3,250.00   | \$ 10,915,081 | 411 Lbs/CY                |
|      | 05.01.30 | Formwork                                                | 196,116  | SF    | \$ 58.25      | \$ 11,423,757 | 12 SF/CY                  |
|      | 05.02.00 | Bridge Girders - Precast - Directly Placed              | 40       | EA    | \$ 64,976.80  | \$ 2,599,072  |                           |
|      | 05.02.10 | Purchase Girders - (130-140')                           | 40       | EA    | \$ 45,676.80  | \$ 1,827,072  |                           |
|      | 05.02.30 | Erect Girders                                           | 40       | EA    | \$ 19,300.00  | \$ 772,000    |                           |
|      | 05.03.00 | Bridge Girders - Precasted - Spliced on Site and Placed | 68       | EA    | \$ 170,697.83 | \$ 11,607,452 |                           |
|      | 05.03.10 | Purchase Girders - (80-90')                             | 204      | EA    | \$ 31,269.86  | \$ 6,379,052  |                           |
|      | 05.03.20 | Splicing and Prestressing Girders                       | 204      | EA    | \$ 9,000.00   | \$ 1,836,000  |                           |
|      | 05.03.30 | Erect Girders                                           | 68       | EA    | \$ 29,300.00  | \$ 1,992,400  |                           |
|      | 05.03.40 | Crane Mob & Demob                                       | 2        | EA    | \$ 700,000.00 | \$ 1,400,000  |                           |
|      | 05.04.00 | Bridge Deck - Polymer Fiber Concrete                    | 6,317    | CY    | \$ 1,764.14   | \$ 11,144,212 |                           |
|      | 05.04.10 | Concrete - Columns                                      | 6,317    | CY    | \$ 557.00     | \$ 3,518,605  |                           |
|      | 05.04.20 | Rebar                                                   | 1,298    | TON   | \$ 3,250.00   | \$ 4,219,009  | 411 Lbs/CY                |
|      | 05.04.30 | Formwork                                                | 166,176  | SF    | \$ 20.50      | \$ 3,406,598  | 26 SF/CY                  |
|      | 05.05.00 | Joint Seals                                             | 426      | LF    | \$ 1,684.72   | \$ 716,850    |                           |
|      | 05.05.10 | Joint Seals - MR 3.5"                                   | 142      | LF    | \$ 500.00     | \$ 70,750     |                           |
|      | 05.05.20 | Joint Seals - MR 3.0"                                   | 36       | LF    | \$ 500.00     | \$ 17,750     |                           |
|      | 05.05.30 | Joint Seals - MR6.0"                                    | 71       | LF    | \$ 2,000.00   | \$ 142,000    |                           |
|      | 05.05.40 | Joint Seals - MR 7.5"                                   | 71       | LF    | \$ 2,200.00   | \$ 156,200    |                           |
|      | 05.05.50 | Joint Seals - MR 10"                                    | 71       | LF    | \$ 3,000.00   | \$ 213,000    |                           |
|      | 05.05.60 | Joint Seals - MR 12"                                    | 36       | LF    | \$ 3,300.00   | \$ 117,150    |                           |
| 06   | 06.00.00 | APPROACH WORK                                           |          |       |               | \$ 767,773    |                           |
|      | 06.01.00 | Retaining Wall                                          | 217      | CY    | \$ 2,292.85   | \$ 498,589    |                           |
|      | 06.01.10 | Concrete - Walls                                        | 217      | CY    | \$ 507.00     | \$ 110,249    |                           |
|      | 06.01.20 | Rebar                                                   | 45       | TON   | \$ 4,700.00   | \$ 210,028    | 411 Lbs/CY                |
|      | 06.01.30 | Formwork                                                | 4,349    | SF    | \$ 41.00      | \$ 178,312    | 20 SF/CY                  |
|      | 06.02.00 | Approach Slab                                           | 197      | CY    | \$ 1,364.88   | \$ 269,184    |                           |
|      | 06.02.10 | Concrete - Slab                                         | 197      | CY    | \$ 337.00     | \$ 66,464     |                           |
|      | 06.02.20 | Rebar                                                   | 41       | TON   | \$ 3,250.00   | \$ 131,720    | 411 Lbs/CY                |
|      | 06.02.30 | Formwork                                                | 1,972    | SF    | \$ 36.00      | \$ 71,000     | 10 SF/CY                  |
| 07   | 07.00.00 | GENERAL BRIDGE WORK                                     |          |       |               | \$ 1,728,360  |                           |
|      | 07.01.00 | Concrete Barrier                                        | 9,602    | LF    | \$ 124.00     | \$ 1,190,648  |                           |
|      | 07.01.10 | Concrete Barrier - Type B36                             | 9,602    | LF    | \$ 124.00     | \$ 1,190,648  |                           |
|      | 07.02.00 | Chain Link Railing                                      | 9,602    | LF    | \$ 56.00      | \$ 537,712    |                           |

DIRECT COST LEVEL 3 SUMMARY

| Item              | Sub Item | Description                  | Quantity   | Unit | Unit Rate     | Total          | Comment |
|-------------------|----------|------------------------------|------------|------|---------------|----------------|---------|
|                   | 07.02.10 | Chain Link Railing           | 9,602      | LF   | \$ 56.00      | \$ 537,712     |         |
| 08                | 08.00.00 | ALLOWANCE FOR UNLISTED ITEMS |            |      |               | \$ 4,802,952   |         |
|                   | 08.01.00 | Allowance for Unlisted Items | 5%         | %    | \$ 96,059,039 | \$ 4,802,952   |         |
| Total Direct Cost |          |                              | 166,175.50 |      | \$ 0.00       | \$ 100,861,991 |         |

Sites Reservoir: 27.1D - Huffmaster Road  
 30% Cost Estimate  
 Sites, CA

Cost Estimate  
 AACEI Class 3  
 February 28, 2025

# TOTAL ESTIMATE SUMMARY

|                                                    |                  |      |            |
|----------------------------------------------------|------------------|------|------------|
| Total Direct Cost                                  |                  |      | 14,744,751 |
| TOTAL DIRECT COST BEFORE CONTRACTOR INDIRECT COSTS |                  |      | 14,744,751 |
| Mobilization                                       | 3.0%             |      | 442,343    |
| Field Overhead Costs (GC&GR)                       | 12.5%            |      | 1,898,387  |
| Insurance                                          | 2.0%             |      | 341,710    |
| Bonds                                              | 0.6%             |      | 104,563    |
| Total Contractor Indirect Costs                    |                  |      | 2,787,003  |
| TOTAL CONTACTOR COSTS                              |                  |      | 17,531,754 |
| Home Office Overhead (G&A)                         | 5.5%             |      | 964,246    |
| GC Profit                                          | 8.0%             |      | 1,479,680  |
| Total Contractor Overhead and Profit               |                  |      | 2,443,926  |
| TOTAL CONSTRUCTION COST BEFORE CONTINGENCIES       |                  |      | 19,975,680 |
| Contingencies                                      |                  |      |            |
| Design Contingencies                               | 12.7%            |      | 2,536,911  |
| Construction Contingencies                         | 15.0%            |      | 3,376,889  |
| Total Contingency Allowance                        |                  |      | 5,913,800  |
| TOTAL COST BEFORE ESCALATION                       |                  |      | 25,889,480 |
| Escalation to Mid-point of Construction            | <i>By Others</i> | 0%   | -          |
| RECOMMENDED CONSTRUCTION BUDGET                    |                  |      | 25,889,480 |
| Non-Contract Costs                                 | <i>By Others</i> | 0.0% | -          |
| TOTAL ESTIMATE                                     |                  |      | 25,889,480 |

Sites Reservoir: 27.1D - Huffmaster Road  
30% Cost Estimate  
Sites, CA

Cost Estimate  
AAE Class 3  
May 22, 2024

DIRECT COST LEVEL 2 SUMMARY

| Item | Sub Item | Description                                                                                                                             | UoM   | Qty     | Unit Rate | Total      |
|------|----------|-----------------------------------------------------------------------------------------------------------------------------------------|-------|---------|-----------|------------|
|      |          | Total Road Length                                                                                                                       | Miles | 6.5     |           | 2,277,781  |
|      |          | Total Road Length                                                                                                                       | LF    | 34,179  |           | 431        |
|      |          | Average Width                                                                                                                           | Feet  | 15      |           |            |
|      |          | Area                                                                                                                                    | SF    | 512,685 |           | 29         |
| 01   | 01.00.00 | Preconstruction Activities                                                                                                              |       |         |           | 682,895    |
|      | 01.01.00 | Clearing And Grubbing                                                                                                                   | ACRE  | 64      | 8,000.00  | 512,000    |
|      | 01.02.00 | Temporary Silt Fence                                                                                                                    | LF    | 85,448  | 2.00      | 170,895    |
| 02   | 02.00.00 | Roadway Excavation                                                                                                                      | CY    | 368,840 | 13.17     | 4,857,197  |
|      | 02.01.00 | Roadway Excavation - Load, Haul, Compact - Top Loading                                                                                  | CY    | 322,890 | 10.28     | 3,319,259  |
|      | 02.02.00 | Roadway Excavation - Load, Haul, Compact - Excess - Top Loading                                                                         | CY    | -       |           | -          |
|      | 02.03.00 | Roadway Excavation - Load, Haul, Waste - Organics - Scraper                                                                             | CY    | 35,880  | 6.93      | 248,505    |
|      | 02.04.00 | Roadway Excavation - Rock Cut - Drill and Shoot                                                                                         | CY    | 129,160 | 8.92      | 1,151,515  |
|      | 02.05.00 | Roadway Fill from Borrow - Load, Haul, Compact                                                                                          | CY    | 10,070  | 13.70     | 137,919    |
|      | 02.06.00 | Roadway Excavation (Causeway Removal of Alluvium Materials)                                                                             | CY    | -       |           | -          |
|      | 02.07.00 | Roadway Fill (Replacement of Alluvium with 10% Swell Factor)                                                                            | CY    | -       |           | -          |
| 03   | 03.00.00 | Causeway Protection                                                                                                                     |       |         |           | -          |
|      | 03.01.00 | RSP Fabric (Type A)                                                                                                                     | SY    | -       |           | -          |
|      | 03.02.00 | RSP Bedding No. 1 (Method B) - Zone 7A                                                                                                  | CY    | -       |           | -          |
|      | 03.03.00 | Rock Slope Protection (1/4 T, Method B) - Zone 7B                                                                                       | CY    | -       |           | -          |
| 04   | 04.00.00 | Pavement Structural Section                                                                                                             |       |         |           | 2,852,733  |
|      | 04.01.00 | Hot Mix Asphalt (Type A)                                                                                                                | TON   | -       |           | -          |
|      | 04.02.00 | Jointed Plain Concrete Pavement (A.K.A. PCC Pavement)                                                                                   | CY    | -       |           | -          |
|      | 04.03.00 | Seal Pavement Joint                                                                                                                     | LF    | -       |           | -          |
|      | 04.04.00 | Seal Longitudinal Isolation Joint                                                                                                       | LF    | -       |           | -          |
|      | 04.05.00 | Class 2 Aggregate Base                                                                                                                  | CY    | 20,360  | 86.21     | 1,755,233  |
|      | 04.06.00 | Shoulder Backing (Class 2 AB Material Daylight To Side Slope)                                                                           | TON   | 21,950  | 50.00     | 1,097,500  |
|      | 04.07.00 | Cold Plane Asphalt Concrete Pavement                                                                                                    | SY    | -       |           | -          |
|      | 04.08.00 | Tack Coat                                                                                                                               | TON   | -       |           | -          |
|      | 04.09.00 | Full Depth Reclamation-Cement                                                                                                           | SY    | -       |           | -          |
|      | 04.15.00 | Remove Base And Surfacing                                                                                                               | CY    | -       |           | -          |
|      | 04.16.00 | Obliterate Surfacing                                                                                                                    | SY    | -       |           | -          |
| 05   | 05.00.00 | Drainage                                                                                                                                |       |         |           | 207,908    |
|      | 05.01.00 | Remove Culvert                                                                                                                          | EA    | 3       | 1,950.00  | 5,850      |
|      | 05.02.00 | Abandon Culvert                                                                                                                         | EA    | -       |           | -          |
|      | 05.03.00 | 24" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                                                                               | LF    | 730     | 269.60    | 196,808    |
|      | 05.04.00 | 54" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                                                                               | LF    | -       |           | -          |
|      | 05.05.00 | Structural Concrete, Box Culvert (Single Cell)                                                                                          | CY    | -       |           | -          |
|      | 05.06.00 | Bar Reinforcing Steel (Box Culvert)                                                                                                     | LB    | -       |           | -          |
|      | 05.07.00 | Rock Pad Energy Dissipator (18" D X 5' W X 6' L)                                                                                        | CY    | 30      | 175.00    | 5,250      |
| 06   | 06.00.00 | Specialty Items                                                                                                                         |       |         |           | 609,120    |
|      | 06.01.00 | Treated Wood Waste                                                                                                                      | LB    | -       |           | -          |
|      | 06.02.00 | Remove Metal Beam Guard Railing                                                                                                         | LF    | -       |           | -          |
|      | 06.03.00 | Midwest Guardrail System (Wood Post) (Includes Transition Railing, Alternative Flared/In-Line Terminal System, And End Anchor Assembly) | LF    | 21,150  | 28.80     | 609,120    |
| 07   | 07.00.00 | Retaining Walls                                                                                                                         |       |         |           | 4,744,739  |
|      | 07.05.00 | Retaining Wall - MSE Wall                                                                                                               | SF    | 35,247  | 134.62    | 4,744,739  |
|      | 07.06.00 | Retaining Wall - Tie-Back Wall                                                                                                          | SF    | -       |           | -          |
| 08   | 08.00.00 | Traffic Items                                                                                                                           |       |         |           | 88,027     |
|      | 08.01.00 | Roadside Sign - One Post                                                                                                                | LF    | 17      | 3,500.00  | 59,500     |
|      | 08.02.00 | Two-Component Paint Traffic Stripe (6" Yellow), (Includes 2 Yellow Stripes And One Black)                                               | EA    | -       |           | -          |
|      | 08.03.00 | Two-Component Paint Traffic Stripe (6" White)                                                                                           | EA    | -       |           | -          |
|      | 08.04.00 | Two-Component Paint Pavement Marking                                                                                                    | SQFT  | -       |           | -          |
|      | 08.05.00 | Construction Area Signs                                                                                                                 | LS    | 1       | 14,263.66 | 14,264     |
|      | 08.06.00 | Portable Changeable Message Sign                                                                                                        | LS    | 1       | 7,131.83  | 7,132      |
|      | 08.07.00 | Traffic Control System                                                                                                                  | LS    | 1       | 7,131.83  | 7,132      |
| 09   | 09.00.00 | Detours - Install and Remove                                                                                                            |       |         |           | -          |
|      | 09.01.00 | Temporary Hot Mix Asphalt (Type A)                                                                                                      | CY    | -       |           | -          |
|      | 09.02.00 | Temporary Class 2 Aggregate Base                                                                                                        | CY    | -       |           | -          |
| 10   | 10.00.00 | Bridges                                                                                                                                 |       |         |           | -          |
|      | 10.01.00 | Sites Lodoga Road Realignment - New Bridge - CIP PS Concrete Box Girder                                                                 | SF    | -       |           | -          |
|      | 10.02.00 | Road 69 - Replacement (Culver/Bridge)- PC/PS Concrete Slab Girder                                                                       | SF    | -       |           | -          |
|      | 10.03.00 | Road 69 - Replacement Bridge - PC/PS Concrete Box Girder                                                                                | SF    | -       |           | -          |
|      | 10.04.00 | Road 69 - Bridge Widening                                                                                                               | SF    | -       |           | -          |
|      | 10.05.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | SF    | -       |           | -          |
|      | 10.06.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | SF    | -       |           | -          |
|      | 10.07.00 | Funks Construction Access Road - New Bridge - PC/PS Concrete Box Girder                                                                 | SF    | -       |           | -          |
|      | 10.08.00 | Dam Spillway - New Bridge - PC/PS Concrete Slab Girder                                                                                  | SF    | -       |           | -          |
| 15   | 15.00.00 | ALLOWANCE FOR UNLISTED ITEMS                                                                                                            |       |         |           | 702,131    |
|      | 15.01.00 | Allowance for Unlisted Items                                                                                                            | %     | 5.0%    |           | 702,131    |
|      |          | Total Direct Cost                                                                                                                       | -     |         |           | 14,744,751 |

TOTAL ESTIMATE SUMMARY

| Item | Sub Item | Description                                                                       | Quantity | Unit  | Unit Rate   | Total        | Comment                                                  |
|------|----------|-----------------------------------------------------------------------------------|----------|-------|-------------|--------------|----------------------------------------------------------|
|      |          | Total Road Length                                                                 | 6.5      | Miles |             |              |                                                          |
|      |          | Total Road Length                                                                 | 34,179   | LF    |             |              |                                                          |
|      |          | Average Width                                                                     | 15       | Feet  |             |              |                                                          |
|      |          | Area                                                                              | 512,685  | SF    |             |              |                                                          |
| 01   | 01.00.00 | Preconstruction Activities                                                        |          |       | \$ -        | \$ 682,895   |                                                          |
|      | 01.01.00 | Clearing And Grubbing                                                             | 64       | ACRE  | \$ 8,000.00 | \$ 512,000   |                                                          |
|      | 01.02.00 | Temporary Silt Fence                                                              | 85,448   | LF    | \$ 2.00     | \$ 170,895   | Allowance by Estimating                                  |
| 02   | 02.00.00 | Roadway Excavation                                                                |          |       |             | \$ 4,857,197 |                                                          |
|      | 02.01.00 | Roadway Excavation - Load, Haul, Compact - Top Loading - 0.175 Mile Haul          | 322,890  | CY    | 10.28       | 3,319,259    | Includes Rock Excavation Load, Haul, Compact             |
|      | 02.02.00 | Roadway Excavation - Load, Haul, Compact - Excess - Top Loading - 0.175 Mile Haul | -        | CY    | -           | -            | Includes Rock Excavation Load, Haul, Compact             |
|      | 02.03.00 | Roadway Excavation - Load, Haul, Waste - Organics - Scraper - 0.25 Mile Haul      | 35,880   | CY    | 6.93        | 248,505      |                                                          |
|      | 02.04.00 | Roadway Excavation - Rock Cut - Drill and Shoot                                   | 129,160  | CY    | 8.92        | 1,151,515    |                                                          |
|      | 02.04.10 | Drill Rock & Shoot                                                                | 129,160  | CY    | 8.92        | 1,151,515    | Drill and Shoot Only                                     |
|      | 02.04.20 | Load, Haul, Stockpile                                                             | -        | CY    | -           | -            | Load, haul, compact included above 02.01.00 and 02.02.00 |
|      | 02.05.00 | Roadway Fill from Borrow - Load, Haul, Compact                                    | 10,070   | CY    | 13.70       | 137,919      |                                                          |
|      | 02.05.10 | Load, Haul, and Compact - Scraper - 0.5 Mile Haul                                 | 5,035    | CY    | 13.49       | 67,902       |                                                          |
|      | 02.05.20 | Load, Haul, and Compact - Top Loading - 0.5 Mile Haul                             | 5,035    | CY    | 13.91       | 70,016       |                                                          |
|      | 02.06.00 | Roadway Excavation (Causeway Removal of Alluvium Materials)                       | -        | CY    | -           | -            |                                                          |
|      | 02.07.00 | Roadway Fill (Replacement of Alluvium with 10% Swell Factor)                      | -        | CY    | -           | -            |                                                          |
| 03   | 03.00.00 | Causeway Protection                                                               |          |       |             | \$ -         |                                                          |
|      | 03.01.00 | RSP Fabric (Type A)                                                               | -        | SY    | \$ -        | \$ -         |                                                          |
|      | 03.02.00 | RSP Bedding No. 1 (Method B) - Zone 7A                                            | -        | CY    | \$ -        | \$ -         |                                                          |
|      | 03.02.01 | Blasting operations                                                               | -        | CY    | \$ 6.00     | \$ -         |                                                          |
|      | 03.02.02 | Excavate to Processing                                                            | -        | CY    | \$ 3.00     | \$ -         |                                                          |
|      | 03.02.03 | Process                                                                           | -        | CY    | \$ 30.00    | \$ -         |                                                          |
|      | 03.02.04 | Load, Haul, Place Bedding                                                         | -        | CY    | \$ -        | \$ -         |                                                          |
|      | 03.03.00 | Rock Slope Protection (1/4 T, Method B) - Zone 7B                                 | -        | CY    | \$ -        | \$ -         |                                                          |
|      | 03.03.01 | Blasting operations                                                               | -        | CY    | \$ 6.00     | \$ -         |                                                          |
|      | 03.03.02 | Excavate to Processing                                                            | -        | CY    | \$ 3.00     | \$ -         |                                                          |
|      | 03.03.03 | Process Riprap                                                                    | -        | CY    | \$ 32.00    | \$ -         |                                                          |
|      | 03.03.04 | Load, Haul, Place Rip Rap                                                         | -        | CY    | \$ -        | \$ -         |                                                          |
| 04   | 04.00.00 | Pavement Structural Section                                                       |          | CY    |             | \$ 2,852,733 |                                                          |
|      | 04.01.00 | Hot Mix Asphalt (Type A)                                                          | -        | TON   | \$ -        | \$ -         |                                                          |
|      | 04.02.00 | Jointed Plain Concrete Pavement (A.K.A. PCC Pavement)                             | -        | CY    | \$ -        | \$ -         |                                                          |
|      | 04.03.00 | Seal Pavement Joint                                                               | -        | LF    | \$ 2.00     | \$ -         |                                                          |
|      | 04.04.00 | Seal Longitudinal Isolation Joint                                                 | -        | LF    | \$ 2.00     | \$ -         |                                                          |
|      | 04.05.00 | Class 2 Aggregate Base                                                            | 20,360   | CY    | \$ 86.21    | \$ 1,755,233 | Haul 75 Miles, Direct Placement                          |
|      | 04.06.00 | Shoulder Backing (Class 2 AB Material Daylight To Side Slope)                     | 21,950   | TON   | \$ 50.00    | \$ 1,097,500 |                                                          |
|      | 04.07.00 | Cold Plane Asphalt Concrete Pavement                                              | -        | SY    | \$ 3.00     | \$ -         |                                                          |
|      | 04.08.00 | Tack Coat                                                                         | -        | TON   | \$ -        | \$ -         |                                                          |
|      | 04.09.00 | Full Depth Reclamation-Cement                                                     | -        | SY    | \$ -        | \$ -         | Mixing, Compacting                                       |
|      | 04.10.00 | Cement (Full Depth Reclamation-Cement)                                            | -        | TON   |             |              | Included Above                                           |
|      | 04.11.00 | Supplementary Aggregate (Full Depth Recycling-Cement)                             | -        | TON   |             |              | Included Above                                           |
|      | 04.12.00 | Asphaltic Emulsion (Full Depth Recycling-Cement)                                  | -        | TON   |             |              | Included Above                                           |
|      | 04.13.00 | Sand Cover (Full-Depth Reclamation-Cement)                                        | -        | TON   |             |              | Included Above                                           |
|      | 04.14.00 | Mix Design (Full Depth Recycling-Cement)                                          | -        | LS    |             |              | Included Above                                           |
|      | 04.15.00 | Remove Base And Surfacing                                                         | -        | CY    | \$ 15.00    | \$ -         |                                                          |
|      | 04.16.00 | Obliterate Surfacing                                                              | -        | SY    | \$ 8.00     | \$ -         |                                                          |
| 05   | 05.00.00 | Drainage                                                                          |          |       |             | \$ 207,908   |                                                          |
|      | 05.01.00 | Remove Culvert                                                                    | 3        | EA    | \$ 1,950.00 | \$ 5,850     | Assume 30' Each                                          |
|      | 05.02.00 | Abandon Culvert                                                                   | -        | EA    | \$ 1,500.00 | \$ -         | Assume 30' Each                                          |
|      | 05.03.00 | 24" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                         | 730      | LF    | \$ 269.60   | \$ 196,808   |                                                          |
|      | 05.04.00 | 54" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                         | -        | LF    | \$ 770.40   | \$ -         |                                                          |
|      | 05.05.00 | Structural Concrete, Box Culvert (Single Cell)                                    | -        | CY    | \$ 2,000.00 | \$ -         |                                                          |
|      | 05.06.00 | Bar Reinforcing Steel (Box Culvert)                                               | -        | LB    | \$ 1.39     | \$ -         |                                                          |

TOTAL ESTIMATE SUMMARY

| Item              | Sub Item | Description                                                                                                                             | Quantity | Unit  | Unit Rate     | Total         | Comment                           |
|-------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------|----------|-------|---------------|---------------|-----------------------------------|
|                   | 05.07.00 | Rock Pad Energy Dissipator (18" D X 5' W X 6' L)                                                                                        | 30       | CY    | \$ 175.00     | \$ 5,250      |                                   |
| 06                | 06.00.00 | Specialty Items                                                                                                                         |          |       |               | \$ 609,120    |                                   |
|                   | 06.01.00 | Treated Wood Waste                                                                                                                      | -        | LB    | \$ 0.50       | \$ -          |                                   |
|                   | 06.02.00 | Remove Metal Beam Guard Railing                                                                                                         | -        | LF    | \$ 5.00       | \$ -          |                                   |
|                   | 06.03.00 | Midwest Guardrail System (Wood Post) (Includes Transition Railing, Alternative Flared/In-Line Terminal System, And End Anchor Assembly) | 21,150   | LF    | \$ 28.80      | \$ 609,120    |                                   |
| 07                | 07.00.00 | Retaining Walls                                                                                                                         |          |       |               | \$ 4,744,739  |                                   |
|                   | 07.05.00 | Retaining Wall - MSE Wall                                                                                                               | 35,247   | SF    | \$ 134.62     | \$ 4,744,739  | Allowance                         |
|                   | 07.06.00 | Retaining Wall - Tie-Back Wall                                                                                                          | -        | SF    | \$ 115.38     | \$ -          | Allowance                         |
| 08                | 08.00.00 | Traffic Items                                                                                                                           |          |       |               | \$ 88,027     |                                   |
|                   | 08.01.00 | Roadside Sign - One Post                                                                                                                | 17       | LF    | \$ 3,500.00   | \$ 59,500     |                                   |
|                   | 08.02.00 | Two-Component Paint Traffic Stripe (6" Yellow), (Includes 2 Yellow Stripes And One                                                      | -        | EA    | \$ 1.97       | \$ -          |                                   |
|                   | 08.03.00 | Two-Component Paint Traffic Stripe (6" White)                                                                                           | -        | EA    | \$ 0.66       | \$ -          |                                   |
|                   | 08.04.00 | Two-Component Paint Pavement Marking                                                                                                    | -        | SQFT  | \$ 14.15      | \$ -          |                                   |
|                   | 08.05.00 | Construction Area Signs                                                                                                                 | 1        | LS    | \$ 14,263.66  | \$ 14,264     | Allow 0.5% of Structural Section  |
|                   | 08.06.00 | Portable Changeable Message Sign                                                                                                        | 1        | LS    | \$ 7,131.83   | \$ 7,132      | Allow 0.25% of Structural Section |
|                   | 08.07.00 | Traffic Control System                                                                                                                  | 1        | LS    | \$ 7,131.83   | \$ 7,132      | Allow 0.25% of Structural Section |
| 09                | 09.00.00 | Detours - Install and Remove                                                                                                            |          |       |               | \$ -          |                                   |
|                   | 09.01.00 | Temporary Hot Mix Asphalt (Type A)                                                                                                      | -        | CY    | \$ 129.60     | \$ -          |                                   |
|                   | 09.02.00 | Temporary Class 2 Aggregate Base                                                                                                        | -        | CY    | \$ 100.00     | \$ -          |                                   |
| 10                | 10.00.00 | Bridges                                                                                                                                 |          |       |               | \$ -          |                                   |
|                   | 10.01.00 | Sites Lodoga Road Realignment - New Bridge - CIP PS Concrete Box Girder                                                                 | -        | SF    | \$ 750.00     | \$ -          |                                   |
|                   | 10.02.00 | Road 69 - Replacement (Culver/Bridge)- PC/PS Concrete Slab Girder                                                                       | -        | SF    | \$ 416.67     | \$ -          |                                   |
|                   | 10.03.00 | Road 69 - Replacement Bridge - PC/PS Concrete Box Girder                                                                                | -        | SF    | \$ 583.33     | \$ -          |                                   |
|                   | 10.04.00 | Road 69 - Bridge Widening                                                                                                               | -        | SF    | \$ 50.00      | \$ -          |                                   |
|                   | 10.05.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | -        | SF    | \$ 583.33     | \$ -          |                                   |
|                   | 10.06.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | -        | SF    | \$ 583.33     | \$ -          |                                   |
|                   | 10.07.00 | Funks Construction Access Road - New Bridge - PC/PS Concrete Box Girder                                                                 | -        | SF    | \$ 500.00     | \$ -          |                                   |
|                   | 10.08.00 | Dam Spillway - New Bridge - PC/PS Concrete Slab Girder                                                                                  | -        | SF    | \$ 416.67     | \$ -          |                                   |
| 15                | 15.00.00 | ALLOWANCE FOR UNLISTED ITEMS                                                                                                            |          |       |               | \$ 702,131    |                                   |
|                   | 15.01.00 | Allowance for Unlisted Items                                                                                                            | 5.0%     | %     | \$ 14,042,620 | \$ 702,131    |                                   |
| Total Direct Cost |          |                                                                                                                                         | 6.47     | Miles | \$ 2,277,781  | \$ 14,744,751 |                                   |

Sites Reservoir: 27.1E - Roads 68, D, and 69  
 30% Cost Estimate  
 Sites, CA

Cost Estimate  
 AACEI Class 3  
 February 28, 2025

# **TOTAL ESTIMATE SUMMARY**

|                                                           |                  |      |                   |
|-----------------------------------------------------------|------------------|------|-------------------|
| Total Direct Cost                                         |                  |      | 11,483,343        |
| <b>TOTAL DIRECT COST BEFORE CONTRACTOR INDIRECT COSTS</b> |                  |      | <b>11,483,343</b> |
| Mobilization                                              | 3.0%             |      | 344,500           |
| Field Overhead Costs (GC&GR)                              | 12.5%            |      | 1,478,480         |
| Insurance                                                 | 2.0%             |      | 266,126           |
| Bonds                                                     | 0.6%             |      | 81,435            |
| <b>Total Contractor Indirect Costs</b>                    |                  |      | <b>2,170,541</b>  |
| <b>TOTAL CONTACTOR COSTS</b>                              |                  |      | <b>13,653,884</b> |
| Home Office Overhead (G&A)                                | 5.5%             |      | 750,964           |
| GC Profit                                                 | 8.0%             |      | 1,152,388         |
| <b>Total Contractor Overhead and Profit</b>               |                  |      | <b>1,903,352</b>  |
| <b>TOTAL CONSTRUCTION COST BEFORE CONTINGENCIES</b>       |                  |      | <b>15,557,236</b> |
| Contingencies                                             |                  |      |                   |
| Design Contingencies                                      | 12.7%            |      | 1,975,769         |
| Construction Contingencies                                | 15.0%            |      | 2,629,951         |
| <b>Total Contingency Allowance</b>                        |                  |      | <b>4,605,720</b>  |
| <b>TOTAL COST BEFORE ESCALATION</b>                       |                  |      | <b>20,162,956</b> |
| Escalation to Mid-point of Construction                   | <i>By Others</i> | 0%   | -                 |
| <b>RECOMMENDED CONSTRUCTION BUDGET</b>                    |                  |      | <b>20,162,956</b> |
| Non-Contract Costs                                        | <i>By Others</i> | 0.0% | -                 |
| <b>TOTAL ESTIMATE</b>                                     |                  |      | <b>20,162,956</b> |

Sites Reservoir: 27.1E - Roads 68, D, and 69  
30% Cost Estimate  
Sites, CA

Cost Estimate  
AAEII Class 3  
May 22, 2024

DIRECT COST LEVEL 2 SUMMARY

| Item | Sub Item | Description                                                                                                                             | UoM   | Qty     | Unit Rate | Total      |
|------|----------|-----------------------------------------------------------------------------------------------------------------------------------------|-------|---------|-----------|------------|
|      |          | Total Road Length                                                                                                                       | Miles | 5.3     |           | 2,180,931  |
|      |          | Total Road Length                                                                                                                       | LF    | 27,801  |           | 413        |
|      |          | Average Width                                                                                                                           | Feet  | 32      |           |            |
|      |          | Area                                                                                                                                    | SF    | 889,632 |           | 13         |
| 01   | 01.00.00 | Preconstruction Activities                                                                                                              |       |         |           | 331,005    |
|      | 01.01.00 | Clearing And Grubbing                                                                                                                   | ACRE  | 24      | 8,000.00  | 192,000    |
|      | 01.02.00 | Temporary Silt Fence                                                                                                                    | LF    | 69,503  | 2.00      | 139,005    |
| 02   | 02.00.00 | Roadway Excavation                                                                                                                      | CY    | 14,510  | 12.87     | 186,755    |
|      | 02.01.00 | Roadway Excavation - Load, Haul, Compact - Top Loading                                                                                  | CY    | 2,840   | 11.81     | 33,528     |
|      | 02.02.00 | Roadway Excavation - Load, Haul, Compact - Excess - Top Loading                                                                         | CY    | 10,220  | 13.12     | 134,111    |
|      | 02.03.00 | Roadway Excavation - Load, Haul, Waste - Organics - Scraper                                                                             | CY    | 1,450   | 13.18     | 19,116     |
|      | 02.04.00 | Roadway Excavation - Rock Cut - Drill and Shoot                                                                                         | CY    | -       |           | -          |
|      | 02.05.00 | Roadway Fill from Borrow - Load, Haul, Compact                                                                                          | CY    | -       |           | -          |
|      | 02.06.00 | Roadway Excavation (Causeway Removal of Alluvium Materials)                                                                             | CY    | -       |           | -          |
|      | 02.07.00 | Roadway Fill (Replacement of Alluvium with 10% Swell Factor)                                                                            | CY    | -       |           | -          |
| 03   | 03.00.00 | Causeway Protection                                                                                                                     |       |         |           | -          |
|      | 03.01.00 | RSP Fabric (Type A)                                                                                                                     | SY    | -       |           | -          |
|      | 03.02.00 | RSP Bedding No. 1 (Method B) - Zone 7A                                                                                                  | CY    | -       |           | -          |
|      | 03.03.00 | Rock Slope Protection (1/4 T, Method B) - Zone 7B                                                                                       | CY    | -       |           | -          |
| 04   | 04.00.00 | Pavement Structural Section                                                                                                             |       |         |           | 5,411,924  |
|      | 04.01.00 | Hot Mix Asphalt (Type A)                                                                                                                | TON   | 22,510  | 103.75    | 2,335,444  |
|      | 04.02.00 | Jointed Plain Concrete Pavement (A.K.A. PCC Pavement)                                                                                   | CY    | -       |           | -          |
|      | 04.03.00 | Seal Pavement Joint                                                                                                                     | LF    | -       |           | -          |
|      | 04.04.00 | Seal Longitudinal Isolation Joint                                                                                                       | LF    | -       |           | -          |
|      | 04.05.00 | Class 2 Aggregate Base                                                                                                                  | CY    | 20,720  | 86.10     | 1,783,941  |
|      | 04.06.00 | Shoulder Backing (Class 2 AB Material Daylight To Side Slope)                                                                           | TON   | -       |           | -          |
|      | 04.07.00 | Cold Plane Asphalt Concrete Pavement                                                                                                    | SY    | 66,730  | 3.00      | 200,190    |
|      | 04.08.00 | Tack Coat                                                                                                                               | TON   | 17      | 2,130.60  | 36,220     |
|      | 04.09.00 | Full Depth Reclamation-Cement                                                                                                           | SY    | 66,730  | 15.83     | 1,056,129  |
|      | 04.15.00 | Remove Base And Surfacing                                                                                                               | CY    | -       |           | -          |
|      | 04.16.00 | Obliterate Surfacing                                                                                                                    | SY    | -       |           | -          |
| 05   | 05.00.00 | Drainage                                                                                                                                |       |         |           | 1,310,268  |
|      | 05.01.00 | Remove Culvert                                                                                                                          | EA    | 14      | 1,950.00  | 27,300     |
|      | 05.02.00 | Abandon Culvert                                                                                                                         | EA    | -       |           | -          |
|      | 05.03.00 | 24" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                                                                               | LF    | 670     | 269.60    | 180,632    |
|      | 05.04.00 | 54" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                                                                               | LF    | -       |           | -          |
|      | 05.05.00 | Structural Concrete, Box Culvert (Single Cell)                                                                                          | CY    | 460     | 2,000.00  | 920,000    |
|      | 05.06.00 | Bar Reinforcing Steel (Box Culvert)                                                                                                     | LB    | 125,080 | 1.39      | 174,111    |
|      | 05.07.00 | Rock Pad Energy Dissipator (18" D X 5' W X 6' L)                                                                                        | CY    | 47      | 175.00    | 8,225      |
| 06   | 06.00.00 | Specialty Items                                                                                                                         |       |         |           | 138,704    |
|      | 06.01.00 | Treated Wood Waste                                                                                                                      | LB    | 14,020  | 0.50      | 7,010      |
|      | 06.02.00 | Remove Metal Beam Guard Railing                                                                                                         | LF    | 1,110   | 5.00      | 5,550      |
|      | 06.03.00 | Midwest Guardrail System (Wood Post) (Includes Transition Railing, Alternative Flared/In-Line Terminal System, And End Anchor Assembly) | LF    | 4,380   | 28.80     | 126,144    |
| 07   | 07.00.00 | Retaining Walls                                                                                                                         |       |         |           | -          |
|      | 07.05.00 | Retaining Wall - MSE Wall                                                                                                               | SF    | -       |           | -          |
|      | 07.06.00 | Retaining Wall - Tie-Back Wall                                                                                                          | SF    | -       |           | -          |
| 08   | 08.00.00 | Traffic Items                                                                                                                           |       |         |           | 212,261    |
|      | 08.01.00 | Roadside Sign - One Post                                                                                                                | LF    | 16      | 3,500.00  | 56,000     |
|      | 08.02.00 | Two-Component Paint Traffic Stripe (6" Yellow), (Includes 2 Yellow Stripes And One Black)                                               | EA    | 27,710  | 1.97      | 54,533     |
|      | 08.03.00 | Two-Component Paint Traffic Stripe (6" White)                                                                                           | EA    | 54,670  | 0.66      | 35,864     |
|      | 08.04.00 | Two-Component Paint Pavement Marking                                                                                                    | SQFT  | 830     | 14.15     | 11,745     |
|      | 08.05.00 | Construction Area Signs                                                                                                                 | LS    | 1       | 27,059.62 | 27,060     |
|      | 08.06.00 | Portable Changeable Message Sign                                                                                                        | LS    | 1       | 13,529.81 | 13,530     |
|      | 08.07.00 | Traffic Control System                                                                                                                  | LS    | 1       | 13,529.81 | 13,530     |
| 09   | 09.00.00 | Detours - Install and Remove                                                                                                            |       |         |           | -          |
|      | 09.01.00 | Temporary Hot Mix Asphalt (Type A)                                                                                                      | CY    | -       |           | -          |
|      | 09.02.00 | Temporary Class 2 Aggregate Base                                                                                                        | CY    | -       |           | -          |
| 10   | 10.00.00 | Bridges                                                                                                                                 |       |         |           | 3,345,600  |
|      | 10.01.00 | Sites Lodoga Road Realignment - New Bridge - CIP PS Concrete Box Girder                                                                 | SF    | -       |           | -          |
|      | 10.02.00 | Road 69 - Replacement (Culver/Bridge)- PC/PS Concrete Slab Girder                                                                       | SF    | 2,848   | 416.67    | 1,186,667  |
|      | 10.03.00 | Road 69 - Replacement Bridge - PC/PS Concrete Box Girder                                                                                | SF    | 3,487   | 583.33    | 2,034,083  |
|      | 10.04.00 | Road 69 - Bridge Widening                                                                                                               | SF    | 2,497   | 50.00     | 124,850    |
|      | 10.05.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | SF    | -       |           | -          |
|      | 10.06.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | SF    | -       |           | -          |
|      | 10.07.00 | Funks Construction Access Road - New Bridge - PC/PS Concrete Box Girder                                                                 | SF    | -       |           | -          |
|      | 10.08.00 | Dam Spillway - New Bridge - PC/PS Concrete Slab Girder                                                                                  | SF    | -       |           | -          |
| 15   | 15.00.00 | ALLOWANCE FOR UNLISTED ITEMS                                                                                                            |       |         |           | 546,826    |
|      | 15.01.00 | Allowance for Unlisted Items                                                                                                            | %     | 5.0%    |           | 546,826    |
|      |          | Total Direct Cost                                                                                                                       | -     |         |           | 11,483,343 |

TOTAL ESTIMATE SUMMARY

| Item | Sub Item | Description                                                                       | Quantity | Unit  | Unit Rate   | Total        | Comment                                                  |
|------|----------|-----------------------------------------------------------------------------------|----------|-------|-------------|--------------|----------------------------------------------------------|
|      |          | Total Road Length                                                                 | 5.3      | Miles |             |              |                                                          |
|      |          | Total Road Length                                                                 | 27,801   | LF    |             |              |                                                          |
|      |          | Average Width                                                                     | 32       | Feet  |             |              |                                                          |
|      |          | Area                                                                              | 889,632  | SF    |             |              |                                                          |
| 01   | 01.00.00 | Preconstruction Activities                                                        |          |       | \$ -        | \$ 331,005   |                                                          |
|      | 01.01.00 | Clearing And Grubbing                                                             | 24       | ACRE  | \$ 8,000.00 | \$ 192,000   |                                                          |
|      | 01.02.00 | Temporary Silt Fence                                                              | 69,503   | LF    | \$ 2.00     | \$ 139,005   | Allowance by Estimating                                  |
| 02   | 02.00.00 | Roadway Excavation                                                                |          |       |             | \$ 186,755   |                                                          |
|      | 02.01.00 | Roadway Excavation - Load, Haul, Compact - Top Loading - 0.175 Mile Haul          | 2,840    | CY    | 11.81       | 33,528       | Includes Rock Excavation Load, Haul, Compact             |
|      | 02.02.00 | Roadway Excavation - Load, Haul, Compact - Excess - Top Loading - 0.175 Mile Haul | 10,220   | CY    | 13.12       | 134,111      | Includes Rock Excavation Load, Haul, Compact             |
|      | 02.03.00 | Roadway Excavation - Load, Haul, Waste - Organics - Scraper - 0.25 Mile Haul      | 1,450    | CY    | 13.18       | 19,116       |                                                          |
|      | 02.04.00 | Roadway Excavation - Rock Cut - Drill and Shoot                                   | -        | CY    | -           | -            |                                                          |
|      | 02.04.10 | Drill Rock & Shoot                                                                | -        | CY    | -           | -            | Drill and Shoot Only                                     |
|      | 02.04.20 | Load, Haul, Stockpile                                                             | -        | CY    | -           | -            | Load, haul, compact included above 02.01.00 and 02.02.00 |
|      | 02.05.00 | Roadway Fill from Borrow - Load, Haul, Compact                                    | -        | CY    | -           | -            |                                                          |
|      | 02.05.10 | Load, Haul, and Compact - Scraper - 0.5 Mile Haul                                 | -        | CY    | -           | -            |                                                          |
|      | 02.05.20 | Load, Haul, and Compact - Top Loading - 0.5 Mile Haul                             | -        | CY    | -           | -            |                                                          |
|      | 02.06.00 | Roadway Excavation (Causeway Removal of Alluvium Materials)                       | -        | CY    | -           | -            |                                                          |
|      | 02.07.00 | Roadway Fill (Replacement of Alluvium with 10% Swell Factor)                      | -        | CY    | -           | -            |                                                          |
| 03   | 03.00.00 | Causeway Protection                                                               |          |       |             | \$ -         |                                                          |
|      | 03.01.00 | RSP Fabric (Type A)                                                               | -        | SY    | \$ -        | \$ -         |                                                          |
|      | 03.02.00 | RSP Bedding No. 1 (Method B) - Zone 7A                                            | -        | CY    | \$ -        | \$ -         |                                                          |
|      | 03.02.01 | Blasting operations                                                               | -        | CY    | \$ 6.00     | \$ -         |                                                          |
|      | 03.02.02 | Excavate to Processing                                                            | -        | CY    | \$ 3.00     | \$ -         |                                                          |
|      | 03.02.03 | Process                                                                           | -        | CY    | \$ 30.00    | \$ -         |                                                          |
|      | 03.02.04 | Load, Haul, Place Bedding                                                         | -        | CY    | \$ -        | \$ -         |                                                          |
|      | 03.03.00 | Rock Slope Protection (1/4 T, Method B) - Zone 7B                                 | -        | CY    | \$ -        | \$ -         |                                                          |
|      | 03.03.01 | Blasting operations                                                               | -        | CY    | \$ 6.00     | \$ -         |                                                          |
|      | 03.03.02 | Excavate to Processing                                                            | -        | CY    | \$ 3.00     | \$ -         |                                                          |
|      | 03.03.03 | Process Riprap                                                                    | -        | CY    | \$ 32.00    | \$ -         |                                                          |
|      | 03.03.04 | Load, Haul, Place Rip Rap                                                         | -        | CY    | \$ -        | \$ -         |                                                          |
| 04   | 04.00.00 | Pavement Structural Section                                                       |          | CY    |             | \$ 5,411,924 |                                                          |
|      | 04.01.00 | Hot Mix Asphalt (Type A)                                                          | 22,510   | TON   | \$ 103.75   | \$ 2,335,444 |                                                          |
|      | 04.02.00 | Jointed Plain Concrete Pavement (A.K.A. PCC Pavement)                             | -        | CY    | \$ -        | \$ -         |                                                          |
|      | 04.03.00 | Seal Pavement Joint                                                               | -        | LF    | \$ 2.00     | \$ -         |                                                          |
|      | 04.04.00 | Seal Longitudinal Isolation Joint                                                 | -        | LF    | \$ 2.00     | \$ -         |                                                          |
|      | 04.05.00 | Class 2 Aggregate Base                                                            | 20,720   | CY    | \$ 86.10    | \$ 1,783,941 | Haul 75 Miles, Direct Placement                          |
|      | 04.06.00 | Shoulder Backing (Class 2 AB Material Daylight To Side Slope)                     | -        | TON   | \$ 50.00    | \$ -         |                                                          |
|      | 04.07.00 | Cold Plane Asphalt Concrete Pavement                                              | 66,730   | SY    | \$ 3.00     | \$ 200,190   |                                                          |
|      | 04.08.00 | Tack Coat                                                                         | 17       | TON   | \$ 2,130.60 | \$ 36,220    |                                                          |
|      | 04.09.00 | Full Depth Reclamation-Cement                                                     | 66,730   | SY    | \$ 15.83    | \$ 1,056,129 | Mixing, Compacting                                       |
|      | 04.10.00 | Cement (Full Depth Reclamation-Cement)                                            | 2,462    | TON   |             |              | Included Above                                           |
|      | 04.11.00 | Supplementary Aggregate (Full Depth Recycling-Cement)                             | 1,891    | TON   |             |              | Included Above                                           |
|      | 04.12.00 | Asphaltic Emulsion (Full Depth Recycling-Cement)                                  | 41       | TON   |             |              | Included Above                                           |
|      | 04.13.00 | Sand Cover (Full-Depth Reclamation-Cement)                                        | 51       | TON   |             |              | Included Above                                           |
|      | 04.14.00 | Mix Design (Full Depth Recycling-Cement)                                          | 1        | LS    |             |              | Included Above                                           |
|      | 04.15.00 | Remove Base And Surfacing                                                         | -        | CY    | \$ 15.00    | \$ -         |                                                          |
|      | 04.16.00 | Obliterate Surfacing                                                              | -        | SY    | \$ 8.00     | \$ -         |                                                          |
| 05   | 05.00.00 | Drainage                                                                          |          |       |             | \$ 1,310,268 |                                                          |
|      | 05.01.00 | Remove Culvert                                                                    | 14       | EA    | \$ 1,950.00 | \$ 27,300    | Assume 30' Each                                          |
|      | 05.02.00 | Abandon Culvert                                                                   | -        | EA    | \$ 1,500.00 | \$ -         | Assume 30' Each                                          |
|      | 05.03.00 | 24" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                         | 670      | LF    | \$ 269.60   | \$ 180,632   |                                                          |
|      | 05.04.00 | 54" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                         | -        | LF    | \$ 770.40   | \$ -         |                                                          |
|      | 05.05.00 | Structural Concrete, Box Culvert (Single Cell)                                    | 460      | CY    | \$ 2,000.00 | \$ 920,000   |                                                          |
|      | 05.06.00 | Bar Reinforcing Steel (Box Culvert)                                               | 125,080  | LB    | \$ 1.39     | \$ 174,111   |                                                          |

TOTAL ESTIMATE SUMMARY

| Item              | Sub Item | Description                                                                                                                             | Quantity | Unit  | Unit Rate     | Total         | Comment                           |
|-------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------|----------|-------|---------------|---------------|-----------------------------------|
|                   | 05.07.00 | Rock Pad Energy Dissipator (18" D X 5' W X 6' L)                                                                                        | 47       | CY    | \$ 175.00     | \$ 8,225      |                                   |
| 06                | 06.00.00 | Specialty Items                                                                                                                         |          |       |               | \$ 138,704    |                                   |
|                   | 06.01.00 | Treated Wood Waste                                                                                                                      | 14,020   | LB    | \$ 0.50       | \$ 7,010      |                                   |
|                   | 06.02.00 | Remove Metal Beam Guard Railing                                                                                                         | 1,110    | LF    | \$ 5.00       | \$ 5,550      |                                   |
|                   | 06.03.00 | Midwest Guardrail System (Wood Post) (Includes Transition Railing, Alternative Flared/In-Line Terminal System, And End Anchor Assembly) | 4,380    | LF    | \$ 28.80      | \$ 126,144    |                                   |
| 07                | 07.00.00 | Retaining Walls                                                                                                                         |          |       |               | \$ -          |                                   |
|                   | 07.05.00 | Retaining Wall - MSE Wall                                                                                                               | -        | SF    | \$ 134.62     | \$ -          | Allowance                         |
|                   | 07.06.00 | Retaining Wall - Tie-Back Wall                                                                                                          | -        | SF    | \$ 115.38     | \$ -          | Allowance                         |
| 08                | 08.00.00 | Traffic Items                                                                                                                           |          |       |               | \$ 212,261    |                                   |
|                   | 08.01.00 | Roadside Sign - One Post                                                                                                                | 16       | LF    | \$ 3,500.00   | \$ 56,000     |                                   |
|                   | 08.02.00 | Two-Component Paint Traffic Stripe (6" Yellow), (Includes 2 Yellow Stripes And One                                                      | 27,710   | EA    | \$ 1.97       | \$ 54,533     |                                   |
|                   | 08.03.00 | Two-Component Paint Traffic Stripe (6" White)                                                                                           | 54,670   | EA    | \$ 0.66       | \$ 35,864     |                                   |
|                   | 08.04.00 | Two-Component Paint Pavement Marking                                                                                                    | 830      | SQFT  | \$ 14.15      | \$ 11,745     |                                   |
|                   | 08.05.00 | Construction Area Signs                                                                                                                 | 1        | LS    | \$ 27,059.62  | \$ 27,060     | Allow 0.5% of Structural Section  |
|                   | 08.06.00 | Portable Changeable Message Sign                                                                                                        | 1        | LS    | \$ 13,529.81  | \$ 13,530     | Allow 0.25% of Structural Section |
|                   | 08.07.00 | Traffic Control System                                                                                                                  | 1        | LS    | \$ 13,529.81  | \$ 13,530     | Allow 0.25% of Structural Section |
| 09                | 09.00.00 | Detours - Install and Remove                                                                                                            |          |       |               | \$ -          |                                   |
|                   | 09.01.00 | Temporary Hot Mix Asphalt (Type A)                                                                                                      | -        | CY    | \$ 129.60     | \$ -          |                                   |
|                   | 09.02.00 | Temporary Class 2 Aggregate Base                                                                                                        | -        | CY    | \$ 100.00     | \$ -          |                                   |
| 10                | 10.00.00 | Bridges                                                                                                                                 |          |       |               | \$ 3,345,600  |                                   |
|                   | 10.01.00 | Sites Lodoga Road Realignment - New Bridge - CIP PS Concrete Box Girder                                                                 | -        | SF    | \$ 750.00     | \$ -          |                                   |
|                   | 10.02.00 | Road 69 - Replacement (Culver/Bridge)- PC/PS Concrete Slab Girder                                                                       | 2,848    | SF    | \$ 416.67     | \$ 1,186,667  |                                   |
|                   | 10.03.00 | Road 69 - Replacement Bridge - PC/PS Concrete Box Girder                                                                                | 3,487    | SF    | \$ 583.33     | \$ 2,034,083  |                                   |
|                   | 10.04.00 | Road 69 - Bridge Widening                                                                                                               | 2,497    | SF    | \$ 50.00      | \$ 124,850    |                                   |
|                   | 10.05.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | -        | SF    | \$ 583.33     | \$ -          |                                   |
|                   | 10.06.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | -        | SF    | \$ 583.33     | \$ -          |                                   |
|                   | 10.07.00 | Funks Construction Access Road - New Bridge - PC/PS Concrete Box Girder                                                                 | -        | SF    | \$ 500.00     | \$ -          |                                   |
|                   | 10.08.00 | Dam Spillway - New Bridge - PC/PS Concrete Slab Girder                                                                                  | -        | SF    | \$ 416.67     | \$ -          |                                   |
| 15                | 15.00.00 | ALLOWANCE FOR UNLISTED ITEMS                                                                                                            |          |       |               | \$ 546,826    |                                   |
|                   | 15.01.00 | Allowance for Unlisted Items                                                                                                            | 5.0%     | %     | \$ 10,936,517 | \$ 546,826    |                                   |
| Total Direct Cost |          |                                                                                                                                         | 5.27     | Miles | \$ 2,180,931  | \$ 11,483,343 |                                   |

Sites Reservoir: 27.1F - Delevan Road  
 30% Cost Estimate  
 Sites, CA

Cost Estimate  
 AACEI Class 3  
 February 28, 2025

# **TOTAL ESTIMATE SUMMARY**

|                                                           |                  |      |                   |
|-----------------------------------------------------------|------------------|------|-------------------|
| Total Direct Cost                                         |                  |      | 7,109,405         |
| <b>TOTAL DIRECT COST BEFORE CONTRACTOR INDIRECT COSTS</b> |                  |      | <b>7,109,405</b>  |
| Mobilization                                              | 3.0%             |      | 213,282           |
| Field Overhead Costs (GC&GR)                              | 12.5%            |      | 915,336           |
| Insurance                                                 | 2.0%             |      | 164,760           |
| Bonds                                                     | 0.6%             |      | 50,417            |
| <b>Total Contractor Indirect Costs</b>                    |                  |      | <b>1,343,795</b>  |
| <b>TOTAL CONTACTOR COSTS</b>                              |                  |      | <b>8,453,200</b>  |
| Home Office Overhead (G&A)                                | 5.5%             |      | 464,926           |
| GC Profit                                                 | 8.0%             |      | 713,450           |
| <b>Total Contractor Overhead and Profit</b>               |                  |      | <b>1,178,376</b>  |
| <b>TOTAL CONSTRUCTION COST BEFORE CONTINGENCIES</b>       |                  |      | <b>9,631,576</b>  |
| Contingencies                                             |                  |      |                   |
| Design Contingencies                                      | 12.7%            |      | 1,223,210         |
| Construction Contingencies                                | 15.0%            |      | 1,628,218         |
| <b>Total Contingency Allowance</b>                        |                  |      | <b>2,851,428</b>  |
| <b>TOTAL COST BEFORE ESCALATION</b>                       |                  |      | <b>12,483,004</b> |
| Escalation to Mid-point of Construction                   | <i>By Others</i> | 0%   | -                 |
| <b>RECOMMENDED CONSTRUCTION BUDGET</b>                    |                  |      | <b>12,483,004</b> |
| Non-Contract Costs                                        | <i>By Others</i> | 0.0% | -                 |
| <b>TOTAL ESTIMATE</b>                                     |                  |      | <b>12,483,004</b> |

Sites Reservoir: 27.1F - Delevan Road  
30% Cost Estimate  
Sites, CA

Cost Estimate  
AAE Class 3  
May 22, 2024

DIRECT COST LEVEL 2 SUMMARY

| Item | Sub Item | Description                                                                                                                             | UoM   | Qty     | Unit Rate | Total     |
|------|----------|-----------------------------------------------------------------------------------------------------------------------------------------|-------|---------|-----------|-----------|
|      |          | Total Road Length                                                                                                                       | Miles | 2.2     |           | 3,249,732 |
|      |          | Total Road Length                                                                                                                       | LF    | 11,551  |           | 615       |
|      |          | Average Width                                                                                                                           | Feet  | 32      |           |           |
|      |          | Area                                                                                                                                    | SF    | 369,632 |           | 19        |
| 01   | 01.00.00 | Preconstruction Activities                                                                                                              |       |         |           | 121,755   |
|      | 01.01.00 | Clearing And Grubbing                                                                                                                   | ACRE  | 8       | 8,000.00  | 64,000    |
|      | 01.02.00 | Temporary Silt Fence                                                                                                                    | LF    | 28,878  | 2.00      | 57,755    |
| 02   | 02.00.00 | Roadway Excavation                                                                                                                      | CY    | 6,600   | 18.14     | 119,699   |
|      | 02.01.00 | Roadway Excavation - Load, Haul, Compact - Top Loading                                                                                  | CY    | 3,540   | 18.94     | 67,056    |
|      | 02.02.00 | Roadway Excavation - Load, Haul, Compact - Excess - Top Loading                                                                         | CY    | 2,400   | 13.97     | 33,528    |
|      | 02.03.00 | Roadway Excavation - Load, Haul, Waste - Organics - Scraper                                                                             | CY    | 660     | 28.96     | 19,116    |
|      | 02.04.00 | Roadway Excavation - Rock Cut - Drill and Shoot                                                                                         | CY    | -       |           | -         |
|      | 02.05.00 | Roadway Fill from Borrow - Load, Haul, Compact                                                                                          | CY    | -       |           | -         |
|      | 02.06.00 | Roadway Excavation (Causeway Removal of Alluvium Materials)                                                                             | CY    | -       |           | -         |
|      | 02.07.00 | Roadway Fill (Replacement of Alluvium with 10% Swell Factor)                                                                            | CY    | -       |           | -         |
| 03   | 03.00.00 | Causeway Protection                                                                                                                     |       |         |           | -         |
|      | 03.01.00 | RSP Fabric (Type A)                                                                                                                     | SY    | -       |           | -         |
|      | 03.02.00 | RSP Bedding No. 1 (Method B) - Zone 7A                                                                                                  | CY    | -       |           | -         |
|      | 03.03.00 | Rock Slope Protection (1/4 T, Method B) - Zone 7B                                                                                       | CY    | -       |           | -         |
| 04   | 04.00.00 | Pavement Structural Section                                                                                                             |       |         |           | 2,458,951 |
|      | 04.01.00 | Hot Mix Asphalt (Type A)                                                                                                                | TON   | 9,550   | 104.73    | 1,000,212 |
|      | 04.02.00 | Jointed Plain Concrete Pavement (A.K.A. PCC Pavement)                                                                                   | CY    | -       |           | -         |
|      | 04.03.00 | Seal Pavement Joint                                                                                                                     | LF    | -       |           | -         |
|      | 04.04.00 | Seal Longitudinal Isolation Joint                                                                                                       | LF    | -       |           | -         |
|      | 04.05.00 | Class 2 Aggregate Base                                                                                                                  | CY    | 10,750  | 85.87     | 923,071   |
|      | 04.06.00 | Shoulder Backing (Class 2 AB Material Daylight To Side Slope)                                                                           | TON   | -       |           | -         |
|      | 04.07.00 | Cold Plane Asphalt Concrete Pavement                                                                                                    | SY    | 24,350  | 3.00      | 73,050    |
|      | 04.08.00 | Tack Coat                                                                                                                               | TON   | 7       | 2,221.04  | 15,547    |
|      | 04.09.00 | Full Depth Reclamation-Cement                                                                                                           | SY    | 24,350  | 17.99     | 438,041   |
|      | 04.15.00 | Remove Base And Surfacing                                                                                                               | CY    | 602     | 15.00     | 9,030     |
|      | 04.16.00 | Obliterate Surfacing                                                                                                                    | SY    | -       |           | -         |
| 05   | 05.00.00 | Drainage                                                                                                                                |       |         |           | 132,687   |
|      | 05.01.00 | Remove Culvert                                                                                                                          | EA    | 1       | 1,950.00  | 1,950     |
|      | 05.02.00 | Abandon Culvert                                                                                                                         | EA    | -       |           | -         |
|      | 05.03.00 | 24" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                                                                               | LF    | 470     | 269.60    | 126,712   |
|      | 05.04.00 | 54" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                                                                               | LF    | -       |           | -         |
|      | 05.05.00 | Structural Concrete, Box Culvert (Single Cell)                                                                                          | CY    | -       |           | -         |
|      | 05.06.00 | Bar Reinforcing Steel (Box Culvert)                                                                                                     | LB    | -       |           | -         |
|      | 05.07.00 | Rock Pad Energy Dissipator (18" D X 5' W X 6' L)                                                                                        | CY    | 23      | 175.00    | 4,025     |
| 06   | 06.00.00 | Specialty Items                                                                                                                         |       |         |           | -         |
|      | 06.01.00 | Treated Wood Waste                                                                                                                      | LB    | -       |           | -         |
|      | 06.02.00 | Remove Metal Beam Guard Railing                                                                                                         | LF    | -       |           | -         |
|      | 06.03.00 | Midwest Guardrail System (Wood Post) (Includes Transition Railing, Alternative Flared/In-Line Terminal System, And End Anchor Assembly) | LF    | -       |           | -         |
| 07   | 07.00.00 | Retaining Walls                                                                                                                         |       |         |           | -         |
|      | 07.05.00 | Retaining Wall - MSE Wall                                                                                                               | SF    | -       |           | -         |
|      | 07.06.00 | Retaining Wall - Tie-Back Wall                                                                                                          | SF    | -       |           | -         |
| 08   | 08.00.00 | Traffic Items                                                                                                                           |       |         |           | 88,352    |
|      | 08.01.00 | Roadside Sign - One Post                                                                                                                | LF    | 6       | 3,500.00  | 21,000    |
|      | 08.02.00 | Two-Component Paint Traffic Stripe (6" Yellow), (Includes 2 Yellow Stripes And One Black)                                               | EA    | 11,400  | 1.97      | 22,435    |
|      | 08.03.00 | Two-Component Paint Traffic Stripe (6" White)                                                                                           | EA    | 22,790  | 0.66      | 14,950    |
|      | 08.04.00 | Two-Component Paint Pavement Marking                                                                                                    | SQFT  | 380     | 14.15     | 5,377     |
|      | 08.05.00 | Construction Area Signs                                                                                                                 | LS    | 1       | 12,294.76 | 12,295    |
|      | 08.06.00 | Portable Changeable Message Sign                                                                                                        | LS    | 1       | 6,147.38  | 6,147     |
|      | 08.07.00 | Traffic Control System                                                                                                                  | LS    | 1       | 6,147.38  | 6,147     |
| 09   | 09.00.00 | Detours - Install and Remove                                                                                                            |       |         |           | -         |
|      | 09.01.00 | Temporary Hot Mix Asphalt (Type A)                                                                                                      | CY    | -       |           | -         |
|      | 09.02.00 | Temporary Class 2 Aggregate Base                                                                                                        | CY    | -       |           | -         |
| 10   | 10.00.00 | Bridges                                                                                                                                 |       |         |           | 3,849,417 |
|      | 10.01.00 | Sites Lodoga Road Realignment - New Bridge - CIP PS Concrete Box Girder                                                                 | SF    | -       |           | -         |
|      | 10.02.00 | Road 69 - Replacement (Culver/Bridge)- PC/PS Concrete Slab Girder                                                                       | SF    | -       |           | -         |
|      | 10.03.00 | Road 69 - Replacement Bridge - PC/PS Concrete Box Girder                                                                                | SF    | -       |           | -         |
|      | 10.04.00 | Road 69 - Bridge Widening                                                                                                               | SF    | -       |           | -         |
|      | 10.05.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | SF    | 3,262   | 583.33    | 1,902,833 |
|      | 10.06.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | SF    | 3,337   | 583.33    | 1,946,583 |
|      | 10.07.00 | Funks Construction Access Road - New Bridge - PC/PS Concrete Box Girder                                                                 | SF    | -       |           | -         |
|      | 10.08.00 | Dam Spillway - New Bridge - PC/PS Concrete Slab Girder                                                                                  | SF    | -       |           | -         |
| 15   | 15.00.00 | ALLOWANCE FOR UNLISTED ITEMS                                                                                                            |       |         |           | 338,543   |
|      | 15.01.00 | Allowance for Unlisted Items                                                                                                            | %     | 5.0%    |           | 338,543   |
|      |          | Total Direct Cost                                                                                                                       | -     |         |           | 7,109,405 |

TOTAL ESTIMATE SUMMARY

| Item | Sub Item | Description                                                                       | Quantity | Unit  | Unit Rate   | Total        | Comment                                                  |
|------|----------|-----------------------------------------------------------------------------------|----------|-------|-------------|--------------|----------------------------------------------------------|
|      |          | Total Road Length                                                                 | 2.2      | Miles |             |              |                                                          |
|      |          | Total Road Length                                                                 | 11,551   | LF    |             |              |                                                          |
|      |          | Average Width                                                                     | 32       | Feet  |             |              |                                                          |
|      |          | Area                                                                              | 369,632  | SF    |             |              |                                                          |
| 01   | 01.00.00 | Preconstruction Activities                                                        |          |       | \$ -        | \$ 121,755   |                                                          |
|      | 01.01.00 | Clearing And Grubbing                                                             | 8        | ACRE  | \$ 8,000.00 | \$ 64,000    |                                                          |
|      | 01.02.00 | Temporary Silt Fence                                                              | 28,878   | LF    | \$ 2.00     | \$ 57,755    | Allowance by Estimating                                  |
| 02   | 02.00.00 | Roadway Excavation                                                                |          |       |             | \$ 119,699   |                                                          |
|      | 02.01.00 | Roadway Excavation - Load, Haul, Compact - Top Loading - 0.175 Mile Haul          | 3,540    | CY    | 18.94       | 67,056       | Includes Rock Excavation Load, Haul, Compact             |
|      | 02.02.00 | Roadway Excavation - Load, Haul, Compact - Excess - Top Loading - 0.175 Mile Haul | 2,400    | CY    | 13.97       | 33,528       | Includes Rock Excavation Load, Haul, Compact             |
|      | 02.03.00 | Roadway Excavation - Load, Haul, Waste - Organics - Scraper - 0.25 Mile Haul      | 660      | CY    | 28.96       | 19,116       |                                                          |
|      | 02.04.00 | Roadway Excavation - Rock Cut - Drill and Shoot                                   | -        | CY    | -           | -            |                                                          |
|      | 02.04.10 | Drill Rock & Shoot                                                                | -        | CY    | -           | -            | Drill and Shoot Only                                     |
|      | 02.04.20 | Load, Haul, Stockpile                                                             | -        | CY    | -           | -            | Load, haul, compact included above 02.01.00 and 02.02.00 |
|      | 02.05.00 | Roadway Fill from Borrow - Load, Haul, Compact                                    | -        | CY    | -           | -            |                                                          |
|      | 02.05.10 | Load, Haul, and Compact - Scraper - 0.5 Mile Haul                                 | -        | CY    | -           | -            |                                                          |
|      | 02.05.20 | Load, Haul, and Compact - Top Loading - 0.5 Mile Haul                             | -        | CY    | -           | -            |                                                          |
|      | 02.06.00 | Roadway Excavation (Causeway Removal of Alluvium Materials)                       | -        | CY    | -           | -            |                                                          |
|      | 02.07.00 | Roadway Fill (Replacement of Alluvium with 10% Swell Factor)                      | -        | CY    | -           | -            |                                                          |
| 03   | 03.00.00 | Causeway Protection                                                               |          |       |             | \$ -         |                                                          |
|      | 03.01.00 | RSP Fabric (Type A)                                                               | -        | SY    | \$ -        | \$ -         |                                                          |
|      | 03.02.00 | RSP Bedding No. 1 (Method B) - Zone 7A                                            | -        | CY    | \$ -        | \$ -         |                                                          |
|      | 03.02.01 | Blasting operations                                                               | -        | CY    | \$ 6.00     | \$ -         |                                                          |
|      | 03.02.02 | Excavate to Processing                                                            | -        | CY    | \$ 3.00     | \$ -         |                                                          |
|      | 03.02.03 | Process                                                                           | -        | CY    | \$ 30.00    | \$ -         |                                                          |
|      | 03.02.04 | Load, Haul, Place Bedding                                                         | -        | CY    | \$ -        | \$ -         |                                                          |
|      | 03.03.00 | Rock Slope Protection (1/4 T, Method B) - Zone 7B                                 | -        | CY    | \$ -        | \$ -         |                                                          |
|      | 03.03.01 | Blasting operations                                                               | -        | CY    | \$ 6.00     | \$ -         |                                                          |
|      | 03.03.02 | Excavate to Processing                                                            | -        | CY    | \$ 3.00     | \$ -         |                                                          |
|      | 03.03.03 | Process Riprap                                                                    | -        | CY    | \$ 32.00    | \$ -         |                                                          |
|      | 03.03.04 | Load, Haul, Place Rip Rap                                                         | -        | CY    | \$ -        | \$ -         |                                                          |
| 04   | 04.00.00 | Pavement Structural Section                                                       |          | CY    |             | \$ 2,458,951 |                                                          |
|      | 04.01.00 | Hot Mix Asphalt (Type A)                                                          | 9,550    | TON   | \$ 104.73   | \$ 1,000,212 |                                                          |
|      | 04.02.00 | Jointed Plain Concrete Pavement (A.K.A. PCC Pavement)                             | -        | CY    | \$ -        | \$ -         |                                                          |
|      | 04.03.00 | Seal Pavement Joint                                                               | -        | LF    | \$ 2.00     | \$ -         |                                                          |
|      | 04.04.00 | Seal Longitudinal Isolation Joint                                                 | -        | LF    | \$ 2.00     | \$ -         |                                                          |
|      | 04.05.00 | Class 2 Aggregate Base                                                            | 10,750   | CY    | \$ 85.87    | \$ 923,071   | Haul 75 Miles, Direct Placement                          |
|      | 04.06.00 | Shoulder Backing (Class 2 AB Material Daylight To Side Slope)                     | -        | TON   | \$ 50.00    | \$ -         |                                                          |
|      | 04.07.00 | Cold Plane Asphalt Concrete Pavement                                              | 24,350   | SY    | \$ 3.00     | \$ 73,050    |                                                          |
|      | 04.08.00 | Tack Coat                                                                         | 7        | TON   | \$ 2,221.04 | \$ 15,547    |                                                          |
|      | 04.09.00 | Full Depth Reclamation-Cement                                                     | 24,350   | SY    | \$ 17.99    | \$ 438,041   | Mixing, Compacting                                       |
|      | 04.10.00 | Cement (Full Depth Reclamation-Cement)                                            | 1,030    | TON   |             |              | Included Above                                           |
|      | 04.11.00 | Supplementary Aggregate (Full Depth Recycling-Cement)                             | 770      | TON   |             |              | Included Above                                           |
|      | 04.12.00 | Asphaltic Emulsion (Full Depth Recycling-Cement)                                  | 15       | TON   |             |              | Included Above                                           |
|      | 04.13.00 | Sand Cover (Full-Depth Reclamation-Cement)                                        | 18       | TON   |             |              | Included Above                                           |
|      | 04.14.00 | Mix Design (Full Depth Recycling-Cement)                                          | 1        | LS    |             |              | Included Above                                           |
|      | 04.15.00 | Remove Base And Surfacing                                                         | 602      | CY    | \$ 15.00    | \$ 9,030     |                                                          |
|      | 04.16.00 | Obliterate Surfacing                                                              | -        | SY    | \$ 8.00     | \$ -         |                                                          |
| 05   | 05.00.00 | Drainage                                                                          |          |       |             | \$ 132,687   |                                                          |
|      | 05.01.00 | Remove Culvert                                                                    | 1        | EA    | \$ 1,950.00 | \$ 1,950     | Assume 30' Each                                          |
|      | 05.02.00 | Abandon Culvert                                                                   | -        | EA    | \$ 1,500.00 | \$ -         | Assume 30' Each                                          |
|      | 05.03.00 | 24" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                         | 470      | LF    | \$ 269.60   | \$ 126,712   |                                                          |
|      | 05.04.00 | 54" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                         | -        | LF    | \$ 770.40   | \$ -         |                                                          |
|      | 05.05.00 | Structural Concrete, Box Culvert (Single Cell)                                    | -        | CY    | \$ 2,000.00 | \$ -         |                                                          |
|      | 05.06.00 | Bar Reinforcing Steel (Box Culvert)                                               | -        | LB    | \$ 1.39     | \$ -         |                                                          |

TOTAL ESTIMATE SUMMARY

| Item              | Sub Item | Description                                                                                                                             | Quantity | Unit  | Unit Rate    | Total        | Comment                           |
|-------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------|----------|-------|--------------|--------------|-----------------------------------|
|                   | 05.07.00 | Rock Pad Energy Dissipator (18" D X 5' W X 6' L)                                                                                        | 23       | CY    | \$ 175.00    | \$ 4,025     |                                   |
| 06                | 06.00.00 | Specialty Items                                                                                                                         |          |       |              | \$ -         |                                   |
|                   | 06.01.00 | Treated Wood Waste                                                                                                                      | -        | LB    | \$ 0.50      | \$ -         |                                   |
|                   | 06.02.00 | Remove Metal Beam Guard Railing                                                                                                         | -        | LF    | \$ 5.00      | \$ -         |                                   |
|                   | 06.03.00 | Midwest Guardrail System (Wood Post) (Includes Transition Railing, Alternative Flared/In-Line Terminal System, And End Anchor Assembly) | -        | LF    | \$ 28.80     | \$ -         |                                   |
| 07                | 07.00.00 | Retaining Walls                                                                                                                         |          |       |              | \$ -         |                                   |
|                   | 07.05.00 | Retaining Wall - MSE Wall                                                                                                               | -        | SF    | \$ 134.62    | \$ -         | Allowance                         |
|                   | 07.06.00 | Retaining Wall - Tie-Back Wall                                                                                                          | -        | SF    | \$ 115.38    | \$ -         | Allowance                         |
| 08                | 08.00.00 | Traffic Items                                                                                                                           |          |       |              | \$ 88,352    |                                   |
|                   | 08.01.00 | Roadside Sign - One Post                                                                                                                | 6        | LF    | \$ 3,500.00  | \$ 21,000    |                                   |
|                   | 08.02.00 | Two-Component Paint Traffic Stripe (6" Yellow), (Includes 2 Yellow Stripes And One                                                      | 11,400   | EA    | \$ 1.97      | \$ 22,435    |                                   |
|                   | 08.03.00 | Two-Component Paint Traffic Stripe (6" White)                                                                                           | 22,790   | EA    | \$ 0.66      | \$ 14,950    |                                   |
|                   | 08.04.00 | Two-Component Paint Pavement Marking                                                                                                    | 380      | SQFT  | \$ 14.15     | \$ 5,377     |                                   |
|                   | 08.05.00 | Construction Area Signs                                                                                                                 | 1        | LS    | \$ 12,294.76 | \$ 12,295    | Allow 0.5% of Structural Section  |
|                   | 08.06.00 | Portable Changeable Message Sign                                                                                                        | 1        | LS    | \$ 6,147.38  | \$ 6,147     | Allow 0.25% of Structural Section |
|                   | 08.07.00 | Traffic Control System                                                                                                                  | 1        | LS    | \$ 6,147.38  | \$ 6,147     | Allow 0.25% of Structural Section |
| 09                | 09.00.00 | Detours - Install and Remove                                                                                                            |          |       |              | \$ -         |                                   |
|                   | 09.01.00 | Temporary Hot Mix Asphalt (Type A)                                                                                                      | -        | CY    | \$ 129.60    | \$ -         |                                   |
|                   | 09.02.00 | Temporary Class 2 Aggregate Base                                                                                                        | -        | CY    | \$ 100.00    | \$ -         |                                   |
| 10                | 10.00.00 | Bridges                                                                                                                                 |          |       |              | \$ 3,849,417 |                                   |
|                   | 10.01.00 | Sites Lodoga Road Realignment - New Bridge - CIP PS Concrete Box Girder                                                                 | -        | SF    | \$ 750.00    | \$ -         |                                   |
|                   | 10.02.00 | Road 69 - Replacement (Culver/Bridge)- PC/PS Concrete Slab Girder                                                                       | -        | SF    | \$ 416.67    | \$ -         |                                   |
|                   | 10.03.00 | Road 69 - Replacement Bridge - PC/PS Concrete Box Girder                                                                                | -        | SF    | \$ 583.33    | \$ -         |                                   |
|                   | 10.04.00 | Road 69 - Bridge Widening                                                                                                               | -        | SF    | \$ 50.00     | \$ -         |                                   |
|                   | 10.05.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | 3,262    | SF    | \$ 583.33    | \$ 1,902,833 |                                   |
|                   | 10.06.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | 3,337    | SF    | \$ 583.33    | \$ 1,946,583 |                                   |
|                   | 10.07.00 | Funks Construction Access Road - New Bridge - PC/PS Concrete Box Girder                                                                 | -        | SF    | \$ 500.00    | \$ -         |                                   |
|                   | 10.08.00 | Dam Spillway - New Bridge - PC/PS Concrete Slab Girder                                                                                  | -        | SF    | \$ 416.67    | \$ -         |                                   |
| 15                | 15.00.00 | ALLOWANCE FOR UNLISTED ITEMS                                                                                                            |          |       |              | \$ 338,543   |                                   |
|                   | 15.01.00 | Allowance for Unlisted Items                                                                                                            | 5.0%     | %     | \$ 6,770,861 | \$ 338,543   |                                   |
| Total Direct Cost |          |                                                                                                                                         | 2.19     | Miles | \$ 3,249,732 | \$ 7,109,405 |                                   |

Sites Reservoir: 27.2 - Recreation Roads - Peninsula Hills, Stone Corral, Day Use Boat Ramp  
 30% Cost Estimate  
 Sites, CA

Cost Estimate  
 AACEI Class 3  
 February 28, 2025

# TOTAL ESTIMATE SUMMARY

|                                                    |           |      |            |
|----------------------------------------------------|-----------|------|------------|
| Total Direct Cost                                  |           |      | 8,917,651  |
| TOTAL DIRECT COST BEFORE CONTRACTOR INDIRECT COSTS |           |      | 8,917,651  |
| Mobilization                                       | 3.0%      |      | 267,530    |
| Field Overhead Costs (GC&GR)                       | 12.5%     |      | 1,148,148  |
| Insurance                                          | 2.0%      |      | 206,667    |
| Bonds                                              | 0.6%      |      | 63,240     |
| Total Contractor Indirect Costs                    |           |      | 1,685,585  |
| TOTAL CONTACTOR COSTS                              |           |      | 10,603,236 |
| Home Office Overhead (G&A)                         | 5.5%      |      | 583,178    |
| GC Profit                                          | 8.0%      |      | 894,913    |
| Total Contractor Overhead and Profit               |           |      | 1,478,091  |
| TOTAL CONSTRUCTION COST BEFORE CONTINGENCIES       |           |      | 12,081,327 |
| Contingencies                                      |           |      |            |
| Design Contingencies                               | 12.7%     |      | 1,534,329  |
| Construction Contingencies                         | 15.0%     |      | 2,042,348  |
| Total Contingency Allowance                        |           |      | 3,576,677  |
| TOTAL COST BEFORE ESCALATION                       |           |      | 15,658,004 |
| Escalation to Mid-point of Construction            | By Others | 0%   | -          |
| RECOMMENDED CONSTRUCTION BUDGET                    |           |      | 15,658,004 |
| Non-Contract Costs                                 | By Others | 0.0% | -          |
| TOTAL ESTIMATE                                     |           |      | 15,658,004 |

Sites Reservoir: 27.2 - Recreation Roads - Peninsula Hills, Stone Corral, Day Use Boat Ramp  
30% Cost Estimate  
Sites, CA

Cost Estimate  
AAE1 Class 3  
May 22, 2024

DIRECT COST LEVEL 2 SUMMARY

| Item | Sub Item | Description                                                                                                                             | UoM   | Qty     | Unit Rate | Total     |
|------|----------|-----------------------------------------------------------------------------------------------------------------------------------------|-------|---------|-----------|-----------|
|      |          | Total Road Length                                                                                                                       | Miles | 4.2     |           | 2,137,322 |
|      |          | Total Road Length                                                                                                                       | LF    | 22,030  |           | 405       |
|      |          | Average Width                                                                                                                           | Feet  | -       |           |           |
|      |          | Area                                                                                                                                    | SF    | -       |           |           |
| 01   | 01.00.00 | Preconstruction Activities                                                                                                              |       |         |           | 110,150   |
|      | 01.01.00 | Clearing And Grubbing                                                                                                                   | ACRE  | -       |           | -         |
|      | 01.02.00 | Temporary Silt Fence                                                                                                                    | LF    | 55,075  | 2.00      | 110,150   |
| 02   | 02.00.00 | Roadway Excavation                                                                                                                      | CY    | 423,630 | 10.11     | 4,282,812 |
|      | 02.01.00 | Roadway Excavation - Load, Haul, Compact - Top Loading                                                                                  | CY    | 150,428 | 10.48     | 1,575,810 |
|      | 02.02.00 | Roadway Excavation - Load, Haul, Compact - Excess - Top Loading                                                                         | CY    | 230,807 | 10.31     | 2,380,478 |
|      | 02.03.00 | Roadway Excavation - Load, Haul, Waste - Organics - Scraper                                                                             | CY    | 42,394  | 6.76      | 286,737   |
|      | 02.04.00 | Roadway Excavation - Rock Cut - Drill and Shoot                                                                                         | CY    | 4,473   | 8.90      | 39,787    |
|      | 02.05.00 | Roadway Fill from Borrow - Load, Haul, Compact                                                                                          | CY    | -       |           | -         |
|      | 02.06.00 | Roadway Excavation (Causeway Removal of Alluvium Materials)                                                                             | CY    | -       |           | -         |
|      | 02.07.00 | Roadway Fill (Replacement of Alluvium with 10% Swell Factor)                                                                            | CY    | -       |           | -         |
| 03   | 03.00.00 | Causeway Protection                                                                                                                     |       |         |           | -         |
|      | 03.01.00 | RSP Fabric (Type A)                                                                                                                     | SY    | -       |           | -         |
|      | 03.02.00 | RSP Bedding No. 1 (Method B) - Zone 7A                                                                                                  | CY    | -       |           | -         |
|      | 03.03.00 | Rock Slope Protection (1/4 T, Method B) - Zone 7B                                                                                       | CY    | -       |           | -         |
| 04   | 04.00.00 | Pavement Structural Section                                                                                                             |       |         |           | 3,886,053 |
|      | 04.01.00 | Hot Mix Asphalt (Type A)                                                                                                                | TON   | 16,605  | 104.23    | 1,730,739 |
|      | 04.02.00 | Jointed Plain Concrete Pavement (A.K.A. PCC Pavement)                                                                                   | CY    | -       |           | -         |
|      | 04.03.00 | Seal Pavement Joint                                                                                                                     | LF    | -       |           | -         |
|      | 04.04.00 | Seal Longitudinal Isolation Joint                                                                                                       | LF    | -       |           | -         |
|      | 04.05.00 | Class 2 Aggregate Base                                                                                                                  | CY    | 24,744  | 86.06     | 2,129,495 |
|      | 04.06.00 | Shoulder Backing (Class 2 AB Material Daylight To Side Slope)                                                                           | TON   | -       |           | -         |
|      | 04.07.00 | Cold Plane Asphalt Concrete Pavement                                                                                                    | SY    | -       |           | -         |
|      | 04.08.00 | Tack Coat                                                                                                                               | TON   | 12      | 2,157.22  | 25,819    |
|      | 04.09.00 | Full Depth Reclamation-Cement                                                                                                           | SY    | -       |           | -         |
|      | 04.15.00 | Remove Base And Surfacing                                                                                                               | CY    | -       |           | -         |
|      | 04.16.00 | Obliterate Surfacing                                                                                                                    | SY    | -       |           | -         |
| 05   | 05.00.00 | Drainage                                                                                                                                |       |         |           | 213,986   |
|      | 05.01.00 | Remove Culvert                                                                                                                          | EA    | -       |           | -         |
|      | 05.02.00 | Abandon Culvert                                                                                                                         | EA    | -       |           | -         |
|      | 05.03.00 | 24" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                                                                               | LF    | 794     | 269.60    | 213,986   |
|      | 05.04.00 | 54" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                                                                               | LF    | -       |           | -         |
|      | 05.05.00 | Structural Concrete, Box Culvert (Single Cell)                                                                                          | CY    | -       |           | -         |
|      | 05.06.00 | Bar Reinforcing Steel (Box Culvert)                                                                                                     | LB    | -       |           | -         |
|      | 05.07.00 | Rock Pad Energy Dissipator (18" D X 5' W X 6' L)                                                                                        | CY    | -       |           | -         |
| 06   | 06.00.00 | Specialty Items                                                                                                                         |       |         |           | -         |
|      | 06.01.00 | Treated Wood Waste                                                                                                                      | LB    | -       |           | -         |
|      | 06.02.00 | Remove Metal Beam Guard Railing                                                                                                         | LF    | -       |           | -         |
|      | 06.03.00 | Midwest Guardrail System (Wood Post) (Includes Transition Railing, Alternative Flared/In-Line Terminal System, And End Anchor Assembly) | LF    | -       |           | -         |
| 07   | 07.00.00 | Retaining Walls                                                                                                                         |       |         |           | -         |
|      | 07.05.00 | Retaining Wall - MSE Wall                                                                                                               | SF    | -       |           | -         |
|      | 07.06.00 | Retaining Wall - Tie-Back Wall                                                                                                          | SF    | -       |           | -         |
| 08   | 08.00.00 | Traffic Items                                                                                                                           |       |         |           | -         |
|      | 08.01.00 | Roadside Sign - One Post                                                                                                                | LF    | -       |           | -         |
|      | 08.02.00 | Two-Component Paint Traffic Stripe (6" Yellow), (Includes 2 Yellow Stripes And One Black)                                               | EA    | -       |           | -         |
|      | 08.03.00 | Two-Component Paint Traffic Stripe (6" White)                                                                                           | EA    | -       |           | -         |
|      | 08.04.00 | Two-Component Paint Pavement Marking                                                                                                    | SQFT  | -       |           | -         |
|      | 08.05.00 | Construction Area Signs                                                                                                                 | LS    | -       |           | -         |
|      | 08.06.00 | Portable Changeable Message Sign                                                                                                        | LS    | -       |           | -         |
|      | 08.07.00 | Traffic Control System                                                                                                                  | LS    | -       |           | -         |
| 09   | 09.00.00 | Detours - Install and Remove                                                                                                            |       |         |           | -         |
|      | 09.01.00 | Temporary Hot Mix Asphalt (Type A)                                                                                                      | CY    | -       |           | -         |
|      | 09.02.00 | Temporary Class 2 Aggregate Base                                                                                                        | CY    | -       |           | -         |
| 10   | 10.00.00 | Bridges                                                                                                                                 |       |         |           | -         |
|      | 10.01.00 | Sites Lodoga Road Realignment - New Bridge - CIP PS Concrete Box Girder                                                                 | SF    | -       |           | -         |
|      | 10.02.00 | Road 69 - Replacement (Culver/Bridge)- PC/PS Concrete Slab Girder                                                                       | SF    | -       |           | -         |
|      | 10.03.00 | Road 69 - Replacement Bridge - PC/PS Concrete Box Girder                                                                                | SF    | -       |           | -         |
|      | 10.04.00 | Road 69 - Bridge Widening                                                                                                               | SF    | -       |           | -         |
|      | 10.05.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | SF    | -       |           | -         |
|      | 10.06.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | SF    | -       |           | -         |
|      | 10.07.00 | Funks Construction Access Road - New Bridge - PC/PS Concrete Box Girder                                                                 | SF    | -       |           | -         |
|      | 10.08.00 | Dam Spillway - New Bridge - PC/PS Concrete Slab Girder                                                                                  | SF    | -       |           | -         |
| 15   | 15.00.00 | ALLOWANCE FOR UNLISTED ITEMS                                                                                                            |       |         |           | 424,650   |
|      | 15.01.00 | Allowance for Unlisted Items                                                                                                            | %     | 5.0%    |           | 424,650   |
|      |          | Total Direct Cost                                                                                                                       | -     |         |           | 8,917,651 |

TOTAL ESTIMATE SUMMARY

| Item | Sub Item | Description                                                                       | Quantity | Unit  | Unit Rate   | Total        | Comment                                                  |
|------|----------|-----------------------------------------------------------------------------------|----------|-------|-------------|--------------|----------------------------------------------------------|
|      |          | Total Road Length                                                                 | 4.2      | Miles |             |              |                                                          |
|      |          | Total Road Length                                                                 | 22,030   | LF    |             |              |                                                          |
|      |          | Average Width                                                                     | -        | Feet  |             |              |                                                          |
|      |          | Area                                                                              | -        | SF    |             |              |                                                          |
| 01   | 01.00.00 | Preconstruction Activities                                                        |          |       | \$ -        | \$ 110,150   |                                                          |
|      | 01.01.00 | Clearing And Grubbing                                                             | -        | ACRE  | \$ 8,000.00 | \$ -         |                                                          |
|      | 01.02.00 | Temporary Silt Fence                                                              | 55,075   | LF    | \$ 2.00     | \$ 110,150   | Allowance by Estimating                                  |
| 02   | 02.00.00 | Roadway Excavation                                                                |          |       |             | \$ 4,282,812 |                                                          |
|      | 02.01.00 | Roadway Excavation - Load, Haul, Compact - Top Loading - 0.175 Mile Haul          | 150,428  | CY    | 10.48       | 1,575,810    | Includes Rock Excavation Load, Haul, Compact             |
|      | 02.02.00 | Roadway Excavation - Load, Haul, Compact - Excess - Top Loading - 0.175 Mile Haul | 230,807  | CY    | 10.31       | 2,380,478    | Includes Rock Excavation Load, Haul, Compact             |
|      | 02.03.00 | Roadway Excavation - Load, Haul, Waste - Organics - Scraper - 0.25 Mile Haul      | 42,394   | CY    | 6.76        | 286,737      |                                                          |
|      | 02.04.00 | Roadway Excavation - Rock Cut - Drill and Shoot                                   | 4,473    | CY    | 8.90        | 39,787       |                                                          |
|      | 02.04.10 | Drill Rock & Shoot                                                                | 4,473    | CY    | 8.90        | 39,787       | Drill and Shoot Only                                     |
|      | 02.04.20 | Load, Haul, Stockpile                                                             | -        | CY    | -           | -            | Load, haul, compact included above 02.01.00 and 02.02.00 |
|      | 02.05.00 | Roadway Fill from Borrow - Load, Haul, Compact                                    | -        | CY    | -           | -            |                                                          |
|      | 02.05.10 | Load, Haul, and Compact - Scraper - 0.5 Mile Haul                                 | -        | CY    | -           | -            |                                                          |
|      | 02.05.20 | Load, Haul, and Compact - Top Loading - 0.5 Mile Haul                             | -        | CY    | -           | -            |                                                          |
|      | 02.06.00 | Roadway Excavation (Causeway Removal of Alluvium Materials)                       | -        | CY    | -           | -            |                                                          |
|      | 02.07.00 | Roadway Fill (Replacement of Alluvium with 10% Swell Factor)                      | -        | CY    | -           | -            |                                                          |
| 03   | 03.00.00 | Causeway Protection                                                               |          |       |             | \$ -         |                                                          |
|      | 03.01.00 | RSP Fabric (Type A)                                                               | -        | SY    | \$ -        | \$ -         |                                                          |
|      | 03.02.00 | RSP Bedding No. 1 (Method B) - Zone 7A                                            | -        | CY    | \$ -        | \$ -         |                                                          |
|      | 03.02.01 | Blasting operations                                                               | -        | CY    | \$ 6.00     | \$ -         |                                                          |
|      | 03.02.02 | Excavate to Processing                                                            | -        | CY    | \$ 3.00     | \$ -         |                                                          |
|      | 03.02.03 | Process                                                                           | -        | CY    | \$ 30.00    | \$ -         |                                                          |
|      | 03.02.04 | Load, Haul, Place Bedding                                                         | -        | CY    | \$ -        | \$ -         |                                                          |
|      | 03.03.00 | Rock Slope Protection (1/4 T, Method B) - Zone 7B                                 | -        | CY    | \$ -        | \$ -         |                                                          |
|      | 03.03.01 | Blasting operations                                                               | -        | CY    | \$ 6.00     | \$ -         |                                                          |
|      | 03.03.02 | Excavate to Processing                                                            | -        | CY    | \$ 3.00     | \$ -         |                                                          |
|      | 03.03.03 | Process Riprap                                                                    | -        | CY    | \$ 32.00    | \$ -         |                                                          |
|      | 03.03.04 | Load, Haul, Place Rip Rap                                                         | -        | CY    | \$ -        | \$ -         |                                                          |
| 04   | 04.00.00 | Pavement Structural Section                                                       |          | CY    |             | \$ 3,886,053 |                                                          |
|      | 04.01.00 | Hot Mix Asphalt (Type A)                                                          | 16,605   | TON   | \$ 104.23   | \$ 1,730,739 |                                                          |
|      | 04.02.00 | Jointed Plain Concrete Pavement (A.K.A. PCC Pavement)                             | -        | CY    | \$ -        | \$ -         |                                                          |
|      | 04.03.00 | Seal Pavement Joint                                                               | -        | LF    | \$ 2.00     | \$ -         |                                                          |
|      | 04.04.00 | Seal Longitudinal Isolation Joint                                                 | -        | LF    | \$ 2.00     | \$ -         |                                                          |
|      | 04.05.00 | Class 2 Aggregate Base                                                            | 24,744   | CY    | \$ 86.06    | \$ 2,129,495 | Haul 75 Miles, Direct Placement                          |
|      | 04.06.00 | Shoulder Backing (Class 2 AB Material Daylight To Side Slope)                     | -        | TON   | \$ 50.00    | \$ -         |                                                          |
|      | 04.07.00 | Cold Plane Asphalt Concrete Pavement                                              | -        | SY    | \$ 3.00     | \$ -         |                                                          |
|      | 04.08.00 | Tack Coat                                                                         | 12       | TON   | \$ 2,157.22 | \$ 25,819    |                                                          |
|      | 04.09.00 | Full Depth Reclamation-Cement                                                     | -        | SY    | \$ -        | \$ -         | Mixing, Compacting                                       |
|      | 04.10.00 | Cement (Full Depth Reclamation-Cement)                                            | -        | TON   |             |              | Included Above                                           |
|      | 04.11.00 | Supplementary Aggregate (Full Depth Recycling-Cement)                             | -        | TON   |             |              | Included Above                                           |
|      | 04.12.00 | Asphaltic Emulsion (Full Depth Recycling-Cement)                                  | -        | TON   |             |              | Included Above                                           |
|      | 04.13.00 | Sand Cover (Full-Depth Reclamation-Cement)                                        | -        | TON   |             |              | Included Above                                           |
|      | 04.14.00 | Mix Design (Full Depth Recycling-Cement)                                          | -        | LS    |             |              | Included Above                                           |
|      | 04.15.00 | Remove Base And Surfacing                                                         | -        | CY    | \$ 15.00    | \$ -         |                                                          |
|      | 04.16.00 | Obliterate Surfacing                                                              | -        | SY    | \$ 8.00     | \$ -         |                                                          |
| 05   | 05.00.00 | Drainage                                                                          |          |       |             | \$ 213,986   |                                                          |
|      | 05.01.00 | Remove Culvert                                                                    | -        | EA    | \$ 1,950.00 | \$ -         | Assume 30' Each                                          |
|      | 05.02.00 | Abandon Culvert                                                                   | -        | EA    | \$ 1,500.00 | \$ -         | Assume 30' Each                                          |
|      | 05.03.00 | 24" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                         | 794      | LF    | \$ 269.60   | \$ 213,986   |                                                          |
|      | 05.04.00 | 54" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                         | -        | LF    | \$ 770.40   | \$ -         |                                                          |
|      | 05.05.00 | Structural Concrete, Box Culvert (Single Cell)                                    | -        | CY    | \$ 2,000.00 | \$ -         |                                                          |
|      | 05.06.00 | Bar Reinforcing Steel (Box Culvert)                                               | -        | LB    | \$ 1.39     | \$ -         |                                                          |

TOTAL ESTIMATE SUMMARY

| Item              | Sub Item | Description                                                                                                                             | Quantity | Unit  | Unit Rate    | Total        | Comment                           |
|-------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------|----------|-------|--------------|--------------|-----------------------------------|
|                   | 05.07.00 | Rock Pad Energy Dissipator (18" D X 5' W X 6' L)                                                                                        | -        | CY    | \$ 175.00    | \$ -         |                                   |
| 06                | 06.00.00 | Specialty Items                                                                                                                         |          |       |              | \$ -         |                                   |
|                   | 06.01.00 | Treated Wood Waste                                                                                                                      | -        | LB    | \$ 0.50      | \$ -         |                                   |
|                   | 06.02.00 | Remove Metal Beam Guard Railing                                                                                                         | -        | LF    | \$ 5.00      | \$ -         |                                   |
|                   | 06.03.00 | Midwest Guardrail System (Wood Post) (Includes Transition Railing, Alternative Flared/In-Line Terminal System, And End Anchor Assembly) | -        | LF    | \$ 28.80     | \$ -         |                                   |
| 07                | 07.00.00 | Retaining Walls                                                                                                                         |          |       |              | \$ -         |                                   |
|                   | 07.05.00 | Retaining Wall - MSE Wall                                                                                                               | -        | SF    | \$ 134.62    | \$ -         | Allowance                         |
|                   | 07.06.00 | Retaining Wall - Tie-Back Wall                                                                                                          | -        | SF    | \$ 115.38    | \$ -         | Allowance                         |
| 08                | 08.00.00 | Traffic Items                                                                                                                           |          |       |              | \$ -         |                                   |
|                   | 08.01.00 | Roadside Sign - One Post                                                                                                                | -        | LF    | \$ 3,500.00  | \$ -         |                                   |
|                   | 08.02.00 | Two-Component Paint Traffic Stripe (6" Yellow), (Includes 2 Yellow Stripes And One                                                      | -        | EA    | \$ 1.97      | \$ -         |                                   |
|                   | 08.03.00 | Two-Component Paint Traffic Stripe (6" White)                                                                                           | -        | EA    | \$ 0.66      | \$ -         |                                   |
|                   | 08.04.00 | Two-Component Paint Pavement Marking                                                                                                    | -        | SQFT  | \$ 14.15     | \$ -         |                                   |
|                   | 08.05.00 | Construction Area Signs                                                                                                                 | -        | LS    | \$ 19,430.26 | \$ -         | Allow 0.5% of Structural Section  |
|                   | 08.06.00 | Portable Changeable Message Sign                                                                                                        | -        | LS    | \$ 9,715.13  | \$ -         | Allow 0.25% of Structural Section |
|                   | 08.07.00 | Traffic Control System                                                                                                                  | -        | LS    | \$ 9,715.13  | \$ -         | Allow 0.25% of Structural Section |
| 09                | 09.00.00 | Detours - Install and Remove                                                                                                            |          |       |              | \$ -         |                                   |
|                   | 09.01.00 | Temporary Hot Mix Asphalt (Type A)                                                                                                      | -        | CY    | \$ 129.60    | \$ -         |                                   |
|                   | 09.02.00 | Temporary Class 2 Aggregate Base                                                                                                        | -        | CY    | \$ 100.00    | \$ -         |                                   |
| 10                | 10.00.00 | Bridges                                                                                                                                 |          |       |              | \$ -         |                                   |
|                   | 10.01.00 | Sites Lodoga Road Realignment - New Bridge - CIP PS Concrete Box Girder                                                                 | -        | SF    | \$ 750.00    | \$ -         |                                   |
|                   | 10.02.00 | Road 69 - Replacement (Culver/Bridge)- PC/PS Concrete Slab Girder                                                                       | -        | SF    | \$ 416.67    | \$ -         |                                   |
|                   | 10.03.00 | Road 69 - Replacement Bridge - PC/PS Concrete Box Girder                                                                                | -        | SF    | \$ 583.33    | \$ -         |                                   |
|                   | 10.04.00 | Road 69 - Bridge Widening                                                                                                               | -        | SF    | \$ 50.00     | \$ -         |                                   |
|                   | 10.05.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | -        | SF    | \$ 583.33    | \$ -         |                                   |
|                   | 10.06.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | -        | SF    | \$ 583.33    | \$ -         |                                   |
|                   | 10.07.00 | Funks Construction Access Road - New Bridge - PC/PS Concrete Box Girder                                                                 | -        | SF    | \$ 500.00    | \$ -         |                                   |
|                   | 10.08.00 | Dam Spillway - New Bridge - PC/PS Concrete Slab Girder                                                                                  | -        | SF    | \$ 416.67    | \$ -         |                                   |
| 15                | 15.00.00 | ALLOWANCE FOR UNLISTED ITEMS                                                                                                            |          |       |              | \$ 424,650   |                                   |
|                   | 15.01.00 | Allowance for Unlisted Items                                                                                                            | 5.0%     | %     | \$ 8,493,001 | \$ 424,650   |                                   |
| Total Direct Cost |          |                                                                                                                                         | 4.17     | Miles | \$ 2,137,322 | \$ 8,917,651 |                                   |

Sites Reservoir: 27.3A - Funks Construction Access  
30% Cost Estimate  
Sites, CA

Cost Estimate  
AAECI Class 3  
February 28, 2025

**TOTAL ESTIMATE SUMMARY**

|                                                    |           |      |            |
|----------------------------------------------------|-----------|------|------------|
| Total Direct Cost                                  |           |      | 46,048,235 |
| TOTAL DIRECT COST BEFORE CONTRACTOR INDIRECT COSTS |           |      | 46,048,235 |
| Mobilization                                       | 3.0%      |      | 1,381,447  |
| Field Overhead Costs (GC&GR)                       | 12.5%     |      | 5,928,710  |
| Insurance                                          | 2.0%      |      | 1,067,168  |
| Bonds                                              | 0.6%      |      | 326,553    |
| Total Contractor Indirect Costs                    |           |      | 8,703,878  |
| TOTAL CONTACTOR COSTS                              |           |      | 54,752,113 |
| Home Office Overhead (G&A)                         | 5.5%      |      | 3,011,366  |
| GC Profit                                          | 8.0%      |      | 4,621,078  |
| Total Contractor Overhead and Profit               |           |      | 7,632,444  |
| TOTAL CONSTRUCTION COST BEFORE CONTINGENCIES       |           |      | 62,384,557 |
| Contingencies                                      |           |      |            |
| Design Contingencies                               | 12.7%     |      | 7,922,839  |
| Construction Contingencies                         | 15.0%     |      | 10,546,109 |
| Total Contingency Allowance                        |           |      | 18,468,948 |
| TOTAL COST BEFORE ESCALATION                       |           |      | 80,853,505 |
| Escalation to Mid-point of Construction            | By Others | 0%   | -          |
| RECOMMENDED CONSTRUCTION BUDGET                    |           |      | 80,853,505 |
| Non-Contract Costs                                 | By Others | 0.0% | -          |
| TOTAL ESTIMATE                                     |           |      | 80,853,505 |

DIRECT COST LEVEL 2 SUMMARY

| Item | Sub Item | Description                                                                                                                             | UoM   | Qty       | Unit Rate | Total      |
|------|----------|-----------------------------------------------------------------------------------------------------------------------------------------|-------|-----------|-----------|------------|
|      |          | Total Road Length                                                                                                                       | Miles | 5.7       |           | 8,121,816  |
|      |          | Total Road Length                                                                                                                       | LF    | 29,936    |           | 1,538      |
|      |          | Average Width                                                                                                                           | Feet  | 32        |           |            |
|      |          | Area                                                                                                                                    | SF    | 957,952   |           | 48         |
| 01   | 01.00.00 | Preconstruction Activities                                                                                                              |       |           |           | 709,680    |
|      | 01.01.00 | Clearing And Grubbing                                                                                                                   | ACRE  | 70        | 8,000.00  | 560,000    |
|      | 01.02.00 | Temporary Silt Fence                                                                                                                    | LF    | 74,840    | 2.00      | 149,680    |
| 02   | 02.00.00 | Roadway Excavation                                                                                                                      | CY    | 1,389,110 | 17.12     | 23,779,560 |
|      | 02.01.00 | Roadway Excavation - Load, Haul, Compact - Top Loading                                                                                  | CY    | 81,510    | 10.28     | 838,197    |
|      | 02.02.00 | Roadway Excavation - Load, Haul, Compact - Excess - Top Loading                                                                         | CY    | 1,168,690 | 10.30     | 12,036,504 |
|      | 02.03.00 | Roadway Excavation - Load, Haul, Waste - Organics - Scraper                                                                             | CY    | 138,910   | 6.61      | 917,558    |
|      | 02.04.00 | Roadway Excavation - Rock Cut - Drill and Shoot                                                                                         | CY    | 1,125,180 | 8.88      | 9,987,301  |
|      | 02.05.00 | Roadway Fill from Borrow - Load, Haul, Compact                                                                                          | CY    | -         |           | -          |
|      | 02.06.00 | Roadway Excavation (Causeway Removal of Alluvium Materials)                                                                             | CY    | -         |           | -          |
|      | 02.07.00 | Roadway Fill (Replacement of Alluvium with 10% Swell Factor)                                                                            | CY    | -         |           | -          |
| 03   | 03.00.00 | Causeway Protection                                                                                                                     |       |           |           | -          |
|      | 03.01.00 | RSP Fabric (Type A)                                                                                                                     | SY    | -         |           | -          |
|      | 03.02.00 | RSP Bedding No. 1 (Method B) - Zone 7A                                                                                                  | CY    | -         |           | -          |
|      | 03.03.00 | Rock Slope Protection (1/4 T, Method B) - Zone 7B                                                                                       | CY    | -         |           | -          |
| 04   | 04.00.00 | Pavement Structural Section                                                                                                             |       |           |           | 11,639,417 |
|      | 04.01.00 | Hot Mix Asphalt (Type A)                                                                                                                | TON   | -         |           | -          |
|      | 04.02.00 | Jointed Plain Concrete Pavement (A.K.A. PCC Pavement)                                                                                   | CY    | -         |           | -          |
|      | 04.03.00 | Seal Pavement Joint                                                                                                                     | LF    | -         |           | -          |
|      | 04.04.00 | Seal Longitudinal Isolation Joint                                                                                                       | LF    | -         |           | -          |
|      | 04.05.00 | Class 2 Aggregate Base                                                                                                                  | CY    | 101,090   | 85.85     | 8,678,417  |
|      | 04.06.00 | Shoulder Backing (Class 2 AB Material Daylight To Side Slope)                                                                           | TON   | 59,220    | 50.00     | 2,961,000  |
|      | 04.07.00 | Cold Plane Asphalt Concrete Pavement                                                                                                    | SY    | -         |           | -          |
|      | 04.08.00 | Tack Coat                                                                                                                               | TON   | -         |           | -          |
|      | 04.09.00 | Full Depth Reclamation-Cement                                                                                                           | SY    | -         |           | -          |
|      | 04.15.00 | Remove Base And Surfacing                                                                                                               | CY    | -         |           | -          |
|      | 04.16.00 | Obliterate Surfacing                                                                                                                    | SY    | -         |           | -          |
| 05   | 05.00.00 | Drainage                                                                                                                                |       |           |           | 197,987    |
|      | 05.01.00 | Remove Culvert                                                                                                                          | EA    | 1         | 1,950.00  | 1,950      |
|      | 05.02.00 | Abandon Culvert                                                                                                                         | EA    | -         |           | -          |
|      | 05.03.00 | 24" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                                                                               | LF    | 720       | 269.60    | 194,112    |
|      | 05.04.00 | 54" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                                                                               | LF    | -         |           | -          |
|      | 05.05.00 | Structural Concrete, Box Culvert (Single Cell)                                                                                          | CY    | -         |           | -          |
|      | 05.06.00 | Bar Reinforcing Steel (Box Culvert)                                                                                                     | LB    | -         |           | -          |
|      | 05.07.00 | Rock Pad Energy Dissipator (18" D X 5' W X 6' L)                                                                                        | CY    | 11        | 175.00    | 1,925      |
| 06   | 06.00.00 | Specialty Items                                                                                                                         |       |           |           | 40,896     |
|      | 06.01.00 | Treated Wood Waste                                                                                                                      | LB    | -         |           | -          |
|      | 06.02.00 | Remove Metal Beam Guard Railing                                                                                                         | LF    | -         |           | -          |
|      | 06.03.00 | Midwest Guardrail System (Wood Post) (Includes Transition Railing, Alternative Flared/In-Line Terminal System, And End Anchor Assembly) | LF    | 1,420     | 28.80     | 40,896     |
| 07   | 07.00.00 | Retaining Walls                                                                                                                         |       |           |           | 5,943,922  |
|      | 07.05.00 | Retaining Wall - MSE Wall                                                                                                               | SF    | -         |           | -          |
|      | 07.06.00 | Retaining Wall - Tie-Back Wall                                                                                                          | SF    | 51,514    | 115.38    | 5,943,922  |
| 08   | 08.00.00 | Traffic Items                                                                                                                           |       |           |           | 49,000     |
|      | 08.01.00 | Roadside Sign - One Post                                                                                                                | LF    | 14        | 3,500.00  | 49,000     |
|      | 08.02.00 | Two-Component Paint Traffic Stripe (6" Yellow), (Includes 2 Yellow Stripes And One Black)                                               | EA    | -         |           | -          |
|      | 08.03.00 | Two-Component Paint Traffic Stripe (6" White)                                                                                           | EA    | -         |           | -          |
|      | 08.04.00 | Two-Component Paint Pavement Marking                                                                                                    | SQFT  | -         |           | -          |
|      | 08.05.00 | Construction Area Signs                                                                                                                 | LS    | -         |           | -          |
|      | 08.06.00 | Portable Changeable Message Sign                                                                                                        | LS    | -         |           | -          |
|      | 08.07.00 | Traffic Control System                                                                                                                  | LS    | -         |           | -          |
| 09   | 09.00.00 | Detours - Install and Remove                                                                                                            |       |           |           | -          |
|      | 09.01.00 | Temporary Hot Mix Asphalt (Type A)                                                                                                      | CY    | -         |           | -          |
|      | 09.02.00 | Temporary Class 2 Aggregate Base                                                                                                        | CY    | -         |           | -          |
| 10   | 10.00.00 | Bridges                                                                                                                                 |       |           |           | 1,495,000  |
|      | 10.01.00 | Sites Lodoga Road Realignment - New Bridge - CIP PS Concrete Box Girder                                                                 | SF    | -         |           | -          |
|      | 10.02.00 | Road 69 - Replacement (Culver/Bridge)- PC/PS Concrete Slab Girder                                                                       | SF    | -         |           | -          |
|      | 10.03.00 | Road 69 - Replacement Bridge - PC/PS Concrete Box Girder                                                                                | SF    | -         |           | -          |
|      | 10.04.00 | Road 69 - Bridge Widening                                                                                                               | SF    | -         |           | -          |
|      | 10.05.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | SF    | -         |           | -          |
|      | 10.06.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | SF    | -         |           | -          |
|      | 10.07.00 | Funks Construction Access Road - New Bridge - PC/PS Concrete Box Girder                                                                 | SF    | 2,990     | 500.00    | 1,495,000  |
|      | 10.08.00 | Dam Spillway - New Bridge - PC/PS Concrete Slab Girder                                                                                  | SF    | -         |           | -          |
| 15   | 15.00.00 | ALLOWANCE FOR UNLISTED ITEMS                                                                                                            |       |           |           | 2,192,773  |
|      | 15.01.00 | Allowance for Unlisted Items                                                                                                            | %     | 5.0%      |           | 2,192,773  |
|      |          | Total Direct Cost                                                                                                                       | -     |           |           | 46,048,235 |

TOTAL ESTIMATE SUMMARY

| Item | Sub Item | Description                                                                       | Quantity  | Unit  | Unit Rate   | Total         | Comment                                                  |
|------|----------|-----------------------------------------------------------------------------------|-----------|-------|-------------|---------------|----------------------------------------------------------|
|      |          | Total Road Length                                                                 | 5.7       | Miles |             |               |                                                          |
|      |          | Total Road Length                                                                 | 29,936    | LF    |             |               |                                                          |
|      |          | Average Width                                                                     | 32        | Feet  |             |               |                                                          |
|      |          | Area                                                                              | 957,952   | SF    |             |               |                                                          |
| 01   | 01.00.00 | Preconstruction Activities                                                        |           |       | \$ -        | \$ 709,680    |                                                          |
|      | 01.01.00 | Clearing And Grubbing                                                             | 70        | ACRE  | \$ 8,000.00 | \$ 560,000    |                                                          |
|      | 01.02.00 | Temporary Silt Fence                                                              | 74,840    | LF    | \$ 2.00     | \$ 149,680    | Allowance by Estimating                                  |
| 02   | 02.00.00 | Roadway Excavation                                                                |           |       |             | \$ 23,779,560 |                                                          |
|      | 02.01.00 | Roadway Excavation - Load, Haul, Compact - Top Loading - 0.175 Mile Haul          | 81,510    | CY    | 10.28       | 838,197       | Includes Rock Excavation Load, Haul, Compact             |
|      | 02.02.00 | Roadway Excavation - Load, Haul, Compact - Excess - Top Loading - 0.175 Mile Haul | 1,168,690 | CY    | 10.30       | 12,036,504    | Includes Rock Excavation Load, Haul, Compact             |
|      | 02.03.00 | Roadway Excavation - Load, Haul, Waste - Organics - Scraper - 0.25 Mile Haul      | 138,910   | CY    | 6.61        | 917,558       |                                                          |
|      | 02.04.00 | Roadway Excavation - Rock Cut - Drill and Shoot                                   | 1,125,180 | CY    | 8.88        | 9,987,301     |                                                          |
|      | 02.04.10 | Drill Rock & Shoot                                                                | 1,125,180 | CY    | 8.88        | 9,987,301     | Drill and Shoot Only                                     |
|      | 02.04.20 | Load, Haul, Stockpile                                                             | -         | CY    | -           | -             | Load, haul, compact included above 02.01.00 and 02.02.00 |
|      | 02.05.00 | Roadway Fill from Borrow - Load, Haul, Compact                                    | -         | CY    | -           | -             |                                                          |
|      | 02.05.10 | Load, Haul, and Compact - Scraper - 0.5 Mile Haul                                 | -         | CY    | -           | -             |                                                          |
|      | 02.05.20 | Load, Haul, and Compact - Top Loading - 0.5 Mile Haul                             | -         | CY    | -           | -             |                                                          |
|      | 02.06.00 | Roadway Excavation (Causeway Removal of Alluvium Materials)                       | -         | CY    | -           | -             |                                                          |
|      | 02.07.00 | Roadway Fill (Replacement of Alluvium with 10% Swell Factor)                      | -         | CY    | -           | -             |                                                          |
| 03   | 03.00.00 | Causeway Protection                                                               |           |       |             | \$ -          |                                                          |
|      | 03.01.00 | RSP Fabric (Type A)                                                               | -         | SY    | \$ -        | \$ -          |                                                          |
|      | 03.02.00 | RSP Bedding No. 1 (Method B) - Zone 7A                                            | -         | CY    | \$ -        | \$ -          |                                                          |
|      | 03.02.01 | Blasting operations                                                               | -         | CY    | \$ 6.00     | \$ -          |                                                          |
|      | 03.02.02 | Excavate to Processing                                                            | -         | CY    | \$ 3.00     | \$ -          |                                                          |
|      | 03.02.03 | Process                                                                           | -         | CY    | \$ 30.00    | \$ -          |                                                          |
|      | 03.02.04 | Load, Haul, Place Bedding                                                         | -         | CY    | \$ -        | \$ -          |                                                          |
|      | 03.03.00 | Rock Slope Protection (1/4 T, Method B) - Zone 7B                                 | -         | CY    | \$ -        | \$ -          |                                                          |
|      | 03.03.01 | Blasting operations                                                               | -         | CY    | \$ 6.00     | \$ -          |                                                          |
|      | 03.03.02 | Excavate to Processing                                                            | -         | CY    | \$ 3.00     | \$ -          |                                                          |
|      | 03.03.03 | Process Riprap                                                                    | -         | CY    | \$ 32.00    | \$ -          |                                                          |
|      | 03.03.04 | Load, Haul, Place Rip Rap                                                         | -         | CY    | \$ -        | \$ -          |                                                          |
| 04   | 04.00.00 | Pavement Structural Section                                                       |           | CY    |             | \$ 11,639,417 |                                                          |
|      | 04.01.00 | Hot Mix Asphalt (Type A)                                                          | -         | TON   | \$ -        | \$ -          |                                                          |
|      | 04.02.00 | Jointed Plain Concrete Pavement (A.K.A. PCC Pavement)                             | -         | CY    | \$ -        | \$ -          |                                                          |
|      | 04.03.00 | Seal Pavement Joint                                                               | -         | LF    | \$ 2.00     | \$ -          |                                                          |
|      | 04.04.00 | Seal Longitudinal Isolation Joint                                                 | -         | LF    | \$ 2.00     | \$ -          |                                                          |
|      | 04.05.00 | Class 2 Aggregate Base                                                            | 101,090   | CY    | \$ 85.85    | \$ 8,678,417  | Haul 75 Miles, Direct Placement                          |
|      | 04.06.00 | Shoulder Backing (Class 2 AB Material Daylight To Side Slope)                     | 59,220    | TON   | \$ 50.00    | \$ 2,961,000  |                                                          |
|      | 04.07.00 | Cold Plane Asphalt Concrete Pavement                                              | -         | SY    | \$ 3.00     | \$ -          |                                                          |
|      | 04.08.00 | Tack Coat                                                                         | -         | TON   | \$ -        | \$ -          |                                                          |
|      | 04.09.00 | Full Depth Reclamation-Cement                                                     | -         | SY    | \$ -        | \$ -          | Mixing, Compacting                                       |
|      | 04.10.00 | Cement (Full Depth Reclamation-Cement)                                            | -         | TON   |             |               | Included Above                                           |
|      | 04.11.00 | Supplementary Aggregate (Full Depth Recycling-Cement)                             | -         | TON   |             |               | Included Above                                           |
|      | 04.12.00 | Asphaltic Emulsion (Full Depth Recycling-Cement)                                  | -         | TON   |             |               | Included Above                                           |
|      | 04.13.00 | Sand Cover (Full-Depth Reclamation-Cement)                                        | -         | TON   |             |               | Included Above                                           |
|      | 04.14.00 | Mix Design (Full Depth Recycling-Cement)                                          | -         | LS    |             |               | Included Above                                           |
|      | 04.15.00 | Remove Base And Surfacing                                                         | -         | CY    | \$ 15.00    | \$ -          |                                                          |
|      | 04.16.00 | Obliterate Surfacing                                                              | -         | SY    | \$ 8.00     | \$ -          |                                                          |
| 05   | 05.00.00 | Drainage                                                                          |           |       |             | \$ 197,987    |                                                          |
|      | 05.01.00 | Remove Culvert                                                                    | 1         | EA    | \$ 1,950.00 | \$ 1,950      | Assume 30' Each                                          |
|      | 05.02.00 | Abandon Culvert                                                                   | -         | EA    | \$ 1,500.00 | \$ -          | Assume 30' Each                                          |
|      | 05.03.00 | 24" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                         | 720       | LF    | \$ 269.60   | \$ 194,112    |                                                          |
|      | 05.04.00 | 54" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                         | -         | LF    | \$ 770.40   | \$ -          |                                                          |
|      | 05.05.00 | Structural Concrete, Box Culvert (Single Cell)                                    | -         | CY    | \$ 2,000.00 | \$ -          |                                                          |
|      | 05.06.00 | Bar Reinforcing Steel (Box Culvert)                                               | -         | LB    | \$ 1.39     | \$ -          |                                                          |

TOTAL ESTIMATE SUMMARY

| Item              | Sub Item | Description                                                                                                                             | Quantity | Unit  | Unit Rate     | Total         | Comment                           |
|-------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------|----------|-------|---------------|---------------|-----------------------------------|
|                   | 05.07.00 | Rock Pad Energy Dissipator (18" D X 5' W X 6' L)                                                                                        | 11       | CY    | \$ 175.00     | \$ 1,925      |                                   |
| 06                | 06.00.00 | Specialty Items                                                                                                                         |          |       |               | \$ 40,896     |                                   |
|                   | 06.01.00 | Treated Wood Waste                                                                                                                      | -        | LB    | \$ 0.50       | \$ -          |                                   |
|                   | 06.02.00 | Remove Metal Beam Guard Railing                                                                                                         | -        | LF    | \$ 5.00       | \$ -          |                                   |
|                   | 06.03.00 | Midwest Guardrail System (Wood Post) (Includes Transition Railing, Alternative Flared/In-Line Terminal System, And End Anchor Assembly) | 1,420    | LF    | \$ 28.80      | \$ 40,896     |                                   |
| 07                | 07.00.00 | Retaining Walls                                                                                                                         |          |       |               | \$ 5,943,922  |                                   |
|                   | 07.05.00 | Retaining Wall - MSE Wall                                                                                                               | -        | SF    | \$ 134.62     | \$ -          | Allowance                         |
|                   | 07.06.00 | Retaining Wall - Tie-Back Wall                                                                                                          | 51,514   | SF    | \$ 115.38     | \$ 5,943,922  | Allowance                         |
| 08                | 08.00.00 | Traffic Items                                                                                                                           |          |       |               | \$ 49,000     |                                   |
|                   | 08.01.00 | Roadside Sign - One Post                                                                                                                | 14       | LF    | \$ 3,500.00   | \$ 49,000     |                                   |
|                   | 08.02.00 | Two-Component Paint Traffic Stripe (6" Yellow), (Includes 2 Yellow Stripes And One                                                      | -        | EA    | \$ 1.97       | \$ -          |                                   |
|                   | 08.03.00 | Two-Component Paint Traffic Stripe (6" White)                                                                                           | -        | EA    | \$ 0.66       | \$ -          |                                   |
|                   | 08.04.00 | Two-Component Paint Pavement Marking                                                                                                    | -        | SQFT  | \$ 14.15      | \$ -          |                                   |
|                   | 08.05.00 | Construction Area Signs                                                                                                                 | -        | LS    | \$ 58,197.08  | \$ -          | Allow 0.5% of Structural Section  |
|                   | 08.06.00 | Portable Changeable Message Sign                                                                                                        | -        | LS    | \$ 29,098.54  | \$ -          | Allow 0.25% of Structural Section |
|                   | 08.07.00 | Traffic Control System                                                                                                                  | -        | LS    | \$ 29,098.54  | \$ -          | Allow 0.25% of Structural Section |
| 09                | 09.00.00 | Detours - Install and Remove                                                                                                            |          |       |               | \$ -          |                                   |
|                   | 09.01.00 | Temporary Hot Mix Asphalt (Type A)                                                                                                      | -        | CY    | \$ 129.60     | \$ -          |                                   |
|                   | 09.02.00 | Temporary Class 2 Aggregate Base                                                                                                        | -        | CY    | \$ 100.00     | \$ -          |                                   |
| 10                | 10.00.00 | Bridges                                                                                                                                 |          |       |               | \$ 1,495,000  |                                   |
|                   | 10.01.00 | Sites Lodoga Road Realignment - New Bridge - CIP PS Concrete Box Girder                                                                 | -        | SF    | \$ 750.00     | \$ -          |                                   |
|                   | 10.02.00 | Road 69 - Replacement (Culver/Bridge)- PC/PS Concrete Slab Girder                                                                       | -        | SF    | \$ 416.67     | \$ -          |                                   |
|                   | 10.03.00 | Road 69 - Replacement Bridge - PC/PS Concrete Box Girder                                                                                | -        | SF    | \$ 583.33     | \$ -          |                                   |
|                   | 10.04.00 | Road 69 - Bridge Widening                                                                                                               | -        | SF    | \$ 50.00      | \$ -          |                                   |
|                   | 10.05.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | -        | SF    | \$ 583.33     | \$ -          |                                   |
|                   | 10.06.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | -        | SF    | \$ 583.33     | \$ -          |                                   |
|                   | 10.07.00 | Funks Construction Access Road - New Bridge - PC/PS Concrete Box Girder                                                                 | 2,990    | SF    | \$ 500.00     | \$ 1,495,000  |                                   |
|                   | 10.08.00 | Dam Spillway - New Bridge - PC/PS Concrete Slab Girder                                                                                  | -        | SF    | \$ 416.67     | \$ -          |                                   |
| 15                | 15.00.00 | ALLOWANCE FOR UNLISTED ITEMS                                                                                                            |          |       |               | \$ 2,192,773  |                                   |
|                   | 15.01.00 | Allowance for Unlisted Items                                                                                                            | 5.0%     | %     | \$ 43,855,462 | \$ 2,192,773  |                                   |
| Total Direct Cost |          |                                                                                                                                         | 5.67     | Miles | \$ 8,121,816  | \$ 46,048,235 |                                   |

Sites Reservoir: 27.3B - Comm Road  
30% Cost Estimate  
Sites, CA

Cost Estimate  
AAECI Class 3  
February 28, 2025

**TOTAL ESTIMATE SUMMARY**

|                                                    |           |      |           |
|----------------------------------------------------|-----------|------|-----------|
| Total Direct Cost                                  |           |      | 1,110,445 |
| TOTAL DIRECT COST BEFORE CONTRACTOR INDIRECT COSTS |           |      | 1,110,445 |
| Mobilization                                       | 3.0%      |      | 33,313    |
| Field Overhead Costs (GC&GR)                       | 12.5%     |      | 142,970   |
| Insurance                                          | 2.0%      |      | 25,735    |
| Bonds                                              | 0.6%      |      | 7,875     |
| Total Contractor Indirect Costs                    |           |      | 209,893   |
| TOTAL CONTACTOR COSTS                              |           |      | 1,320,338 |
| Home Office Overhead (G&A)                         | 5.5%      |      | 72,619    |
| GC Profit                                          | 8.0%      |      | 111,437   |
| Total Contractor Overhead and Profit               |           |      | 184,056   |
| TOTAL CONSTRUCTION COST BEFORE CONTINGENCIES       |           |      | 1,504,394 |
| Contingencies                                      |           |      |           |
| Design Contingencies                               | 12.7%     |      | 191,058   |
| Construction Contingencies                         | 15.0%     |      | 254,318   |
| Total Contingency Allowance                        |           |      | 445,376   |
| TOTAL COST BEFORE ESCALATION                       |           |      | 1,949,770 |
| Escalation to Mid-point of Construction            | By Others | 0%   | -         |
| RECOMMENDED CONSTRUCTION BUDGET                    |           |      | 1,949,770 |
| Non-Contract Costs                                 | By Others | 0.0% | -         |
| TOTAL ESTIMATE                                     |           |      | 1,949,770 |

DIRECT COST LEVEL 2 SUMMARY

| Item | Sub Item | Description                                                                                                                             | UoM   | Qty    | Unit Rate | Total     |
|------|----------|-----------------------------------------------------------------------------------------------------------------------------------------|-------|--------|-----------|-----------|
|      |          | Total Road Length                                                                                                                       | Miles | 0.9    |           | 1,264,973 |
|      |          | Total Road Length                                                                                                                       | LF    | 4,635  |           | 240       |
|      |          | Average Width                                                                                                                           | Feet  | 15     |           |           |
|      |          | Area                                                                                                                                    | SF    | 69,525 |           | 16        |
| 01   | 01.00.00 | Preconstruction Activities                                                                                                              |       |        |           | 23,175    |
|      | 01.01.00 | Clearing And Grubbing                                                                                                                   | ACRE  | -      |           | -         |
|      | 01.02.00 | Temporary Silt Fence                                                                                                                    | LF    | 11,588 | 2.00      | 23,175    |
| 02   | 02.00.00 | Roadway Excavation                                                                                                                      | CY    | 59,700 | 11.07     | 660,849   |
|      | 02.01.00 | Roadway Excavation - Load, Haul, Compact - Top Loading                                                                                  | CY    | 21,000 | 11.18     | 234,695   |
|      | 02.02.00 | Roadway Excavation - Load, Haul, Compact - Excess - Top Loading                                                                         | CY    | 32,700 | 11.28     | 368,807   |
|      | 02.03.00 | Roadway Excavation - Load, Haul, Waste - Organics - Scraper                                                                             | CY    | 6,000  | 9.56      | 57,347    |
|      | 02.04.00 | Roadway Excavation - Rock Cut - Drill and Shoot                                                                                         | CY    | -      |           | -         |
|      | 02.05.00 | Roadway Fill from Borrow - Load, Haul, Compact                                                                                          | CY    | -      |           | -         |
|      | 02.06.00 | Roadway Excavation (Causeway Removal of Alluvium Materials)                                                                             | CY    | -      |           | -         |
|      | 02.07.00 | Roadway Fill (Replacement of Alluvium with 10% Swell Factor)                                                                            | CY    | -      |           | -         |
| 03   | 03.00.00 | Causeway Protection                                                                                                                     |       |        |           | -         |
|      | 03.01.00 | RSP Fabric (Type A)                                                                                                                     | SY    | -      |           | -         |
|      | 03.02.00 | RSP Bedding No. 1 (Method B) - Zone 7A                                                                                                  | CY    | -      |           | -         |
|      | 03.03.00 | Rock Slope Protection (1/4 T, Method B) - Zone 7B                                                                                       | CY    | -      |           | -         |
| 04   | 04.00.00 | Pavement Structural Section                                                                                                             |       |        |           | 327,711   |
|      | 04.01.00 | Hot Mix Asphalt (Type A)                                                                                                                | TON   | -      |           | -         |
|      | 04.02.00 | Jointed Plain Concrete Pavement (A.K.A. PCC Pavement)                                                                                   | CY    | -      |           | -         |
|      | 04.03.00 | Seal Pavement Joint                                                                                                                     | LF    | -      |           | -         |
|      | 04.04.00 | Seal Longitudinal Isolation Joint                                                                                                       | LF    | -      |           | -         |
|      | 04.05.00 | Class 2 Aggregate Base                                                                                                                  | CY    | 3,800  | 86.24     | 327,711   |
|      | 04.06.00 | Shoulder Backing (Class 2 AB Material Daylight To Side Slope)                                                                           | TON   | -      |           | -         |
|      | 04.07.00 | Cold Plane Asphalt Concrete Pavement                                                                                                    | SY    | -      |           | -         |
|      | 04.08.00 | Tack Coat                                                                                                                               | TON   | -      |           | -         |
|      | 04.09.00 | Full Depth Reclamation-Cement                                                                                                           | SY    | -      |           | -         |
|      | 04.15.00 | Remove Base And Surfacing                                                                                                               | CY    | -      |           | -         |
|      | 04.16.00 | Obliterate Surfacing                                                                                                                    | SY    | -      |           | -         |
| 05   | 05.00.00 | Drainage                                                                                                                                |       |        |           | 45,832    |
|      | 05.01.00 | Remove Culvert                                                                                                                          | EA    | -      |           | -         |
|      | 05.02.00 | Abandon Culvert                                                                                                                         | EA    | -      |           | -         |
|      | 05.03.00 | 24" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                                                                               | LF    | 170    | 269.60    | 45,832    |
|      | 05.04.00 | 54" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                                                                               | LF    | -      |           | -         |
|      | 05.05.00 | Structural Concrete, Box Culvert (Single Cell)                                                                                          | CY    | -      |           | -         |
|      | 05.06.00 | Bar Reinforcing Steel (Box Culvert)                                                                                                     | LB    | -      |           | -         |
|      | 05.07.00 | Rock Pad Energy Dissipator (18" D X 5' W X 6' L)                                                                                        | CY    | -      |           | -         |
| 06   | 06.00.00 | Specialty Items                                                                                                                         |       |        |           | -         |
|      | 06.01.00 | Treated Wood Waste                                                                                                                      | LB    | -      |           | -         |
|      | 06.02.00 | Remove Metal Beam Guard Railing                                                                                                         | LF    | -      |           | -         |
|      | 06.03.00 | Midwest Guardrail System (Wood Post) (Includes Transition Railing, Alternative Flared/In-Line Terminal System, And End Anchor Assembly) | LF    | -      |           | -         |
| 07   | 07.00.00 | Retaining Walls                                                                                                                         |       |        |           | -         |
|      | 07.05.00 | Retaining Wall - MSE Wall                                                                                                               | SF    | -      |           | -         |
|      | 07.06.00 | Retaining Wall - Tie-Back Wall                                                                                                          | SF    | -      |           | -         |
| 08   | 08.00.00 | Traffic Items                                                                                                                           |       |        |           | -         |
|      | 08.01.00 | Roadside Sign - One Post                                                                                                                | LF    | -      |           | -         |
|      | 08.02.00 | Two-Component Paint Traffic Stripe (6" Yellow), (Includes 2 Yellow Stripes And One Black)                                               | EA    | -      |           | -         |
|      | 08.03.00 | Two-Component Paint Traffic Stripe (6" White)                                                                                           | EA    | -      |           | -         |
|      | 08.04.00 | Two-Component Paint Pavement Marking                                                                                                    | SQFT  | -      |           | -         |
|      | 08.05.00 | Construction Area Signs                                                                                                                 | LS    | -      |           | -         |
|      | 08.06.00 | Portable Changeable Message Sign                                                                                                        | LS    | -      |           | -         |
|      | 08.07.00 | Traffic Control System                                                                                                                  | LS    | -      |           | -         |
| 09   | 09.00.00 | Detours - Install and Remove                                                                                                            |       |        |           | -         |
|      | 09.01.00 | Temporary Hot Mix Asphalt (Type A)                                                                                                      | CY    | -      |           | -         |
|      | 09.02.00 | Temporary Class 2 Aggregate Base                                                                                                        | CY    | -      |           | -         |
| 10   | 10.00.00 | Bridges                                                                                                                                 |       |        |           | -         |
|      | 10.01.00 | Sites Lodoga Road Realignment - New Bridge - CIP PS Concrete Box Girder                                                                 | SF    | -      |           | -         |
|      | 10.02.00 | Road 69 - Replacement (Culver/Bridge)- PC/PS Concrete Slab Girder                                                                       | SF    | -      |           | -         |
|      | 10.03.00 | Road 69 - Replacement Bridge - PC/PS Concrete Box Girder                                                                                | SF    | -      |           | -         |
|      | 10.04.00 | Road 69 - Bridge Widening                                                                                                               | SF    | -      |           | -         |
|      | 10.05.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | SF    | -      |           | -         |
|      | 10.06.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | SF    | -      |           | -         |
|      | 10.07.00 | Funks Construction Access Road - New Bridge - PC/PS Concrete Box Girder                                                                 | SF    | -      |           | -         |
|      | 10.08.00 | Dam Spillway - New Bridge - PC/PS Concrete Slab Girder                                                                                  | SF    | -      |           | -         |
| 15   | 15.00.00 | ALLOWANCE FOR UNLISTED ITEMS                                                                                                            |       |        |           | 52,878    |
|      | 15.01.00 | Allowance for Unlisted Items                                                                                                            | %     | 5.0%   |           | 52,878    |
|      |          | Total Direct Cost                                                                                                                       | -     |        |           | 1,110,445 |

TOTAL ESTIMATE SUMMARY

| Item | Sub Item | Description                                                                       | Quantity | Unit  | Unit Rate   | Total      | Comment                                                  |
|------|----------|-----------------------------------------------------------------------------------|----------|-------|-------------|------------|----------------------------------------------------------|
|      |          | Total Road Length                                                                 | 0.9      | Miles |             |            |                                                          |
|      |          | Total Road Length                                                                 | 4,635    | LF    |             |            |                                                          |
|      |          | Average Width                                                                     | 15       | Feet  |             |            |                                                          |
|      |          | Area                                                                              | 69,525   | SF    |             |            |                                                          |
| 01   | 01.00.00 | Preconstruction Activities                                                        |          |       | \$ -        | \$ 23,175  |                                                          |
|      | 01.01.00 | Clearing And Grubbing                                                             | -        | ACRE  | \$ 8,000.00 | \$ -       |                                                          |
|      | 01.02.00 | Temporary Silt Fence                                                              | 11,588   | LF    | \$ 2.00     | \$ 23,175  | Allowance by Estimating                                  |
| 02   | 02.00.00 | Roadway Excavation                                                                |          |       |             | \$ 660,849 |                                                          |
|      | 02.01.00 | Roadway Excavation - Load, Haul, Compact - Top Loading - 0.175 Mile Haul          | 21,000   | CY    | 11.18       | 234,695    | Includes Rock Excavation Load, Haul, Compact             |
|      | 02.02.00 | Roadway Excavation - Load, Haul, Compact - Excess - Top Loading - 0.175 Mile Haul | 32,700   | CY    | 11.28       | 368,807    | Includes Rock Excavation Load, Haul, Compact             |
|      | 02.03.00 | Roadway Excavation - Load, Haul, Waste - Organics - Scraper - 0.25 Mile Haul      | 6,000    | CY    | 9.56        | 57,347     |                                                          |
|      | 02.04.00 | Roadway Excavation - Rock Cut - Drill and Shoot                                   | -        | CY    | -           | -          |                                                          |
|      | 02.04.10 | Drill Rock & Shoot                                                                | -        | CY    | -           | -          | Drill and Shoot Only                                     |
|      | 02.04.20 | Load, Haul, Stockpile                                                             | -        | CY    | -           | -          | Load, haul, compact included above 02.01.00 and 02.02.00 |
|      | 02.05.00 | Roadway Fill from Borrow - Load, Haul, Compact                                    | -        | CY    | -           | -          |                                                          |
|      | 02.05.10 | Load, Haul, and Compact - Scraper - 0.5 Mile Haul                                 | -        | CY    | -           | -          |                                                          |
|      | 02.05.20 | Load, Haul, and Compact - Top Loading - 0.5 Mile Haul                             | -        | CY    | -           | -          |                                                          |
|      | 02.06.00 | Roadway Excavation (Causeway Removal of Alluvium Materials)                       | -        | CY    | -           | -          |                                                          |
|      | 02.07.00 | Roadway Fill (Replacement of Alluvium with 10% Swell Factor)                      | -        | CY    | -           | -          |                                                          |
| 03   | 03.00.00 | Causeway Protection                                                               |          |       |             | \$ -       |                                                          |
|      | 03.01.00 | RSP Fabric (Type A)                                                               | -        | SY    | \$ -        | \$ -       |                                                          |
|      | 03.02.00 | RSP Bedding No. 1 (Method B) - Zone 7A                                            | -        | CY    | \$ -        | \$ -       |                                                          |
|      | 03.02.01 | Blasting operations                                                               | -        | CY    | \$ 6.00     | \$ -       |                                                          |
|      | 03.02.02 | Excavate to Processing                                                            | -        | CY    | \$ 3.00     | \$ -       |                                                          |
|      | 03.02.03 | Process                                                                           | -        | CY    | \$ 30.00    | \$ -       |                                                          |
|      | 03.02.04 | Load, Haul, Place Bedding                                                         | -        | CY    | \$ -        | \$ -       |                                                          |
|      | 03.03.00 | Rock Slope Protection (1/4 T, Method B) - Zone 7B                                 | -        | CY    | \$ -        | \$ -       |                                                          |
|      | 03.03.01 | Blasting operations                                                               | -        | CY    | \$ 6.00     | \$ -       |                                                          |
|      | 03.03.02 | Excavate to Processing                                                            | -        | CY    | \$ 3.00     | \$ -       |                                                          |
|      | 03.03.03 | Process Riprap                                                                    | -        | CY    | \$ 32.00    | \$ -       |                                                          |
|      | 03.03.04 | Load, Haul, Place Rip Rap                                                         | -        | CY    | \$ -        | \$ -       |                                                          |
| 04   | 04.00.00 | Pavement Structural Section                                                       |          | CY    |             | \$ 327,711 |                                                          |
|      | 04.01.00 | Hot Mix Asphalt (Type A)                                                          | -        | TON   | \$ -        | \$ -       |                                                          |
|      | 04.02.00 | Jointed Plain Concrete Pavement (A.K.A. PCC Pavement)                             | -        | CY    | \$ -        | \$ -       |                                                          |
|      | 04.03.00 | Seal Pavement Joint                                                               | -        | LF    | \$ 2.00     | \$ -       |                                                          |
|      | 04.04.00 | Seal Longitudinal Isolation Joint                                                 | -        | LF    | \$ 2.00     | \$ -       |                                                          |
|      | 04.05.00 | Class 2 Aggregate Base                                                            | 3,800    | CY    | \$ 86.24    | \$ 327,711 | Haul 75 Miles, Direct Placement                          |
|      | 04.06.00 | Shoulder Backing (Class 2 AB Material Daylight To Side Slope)                     | -        | TON   | \$ 50.00    | \$ -       |                                                          |
|      | 04.07.00 | Cold Plane Asphalt Concrete Pavement                                              | -        | SY    | \$ 3.00     | \$ -       |                                                          |
|      | 04.08.00 | Tack Coat                                                                         | -        | TON   | \$ -        | \$ -       |                                                          |
|      | 04.09.00 | Full Depth Reclamation-Cement                                                     | -        | SY    | \$ -        | \$ -       | Mixing, Compacting                                       |
|      | 04.10.00 | Cement (Full Depth Reclamation-Cement)                                            | -        | TON   |             |            | Included Above                                           |
|      | 04.11.00 | Supplementary Aggregate (Full Depth Recycling-Cement)                             | -        | TON   |             |            | Included Above                                           |
|      | 04.12.00 | Asphaltic Emulsion (Full Depth Recycling-Cement)                                  | -        | TON   |             |            | Included Above                                           |
|      | 04.13.00 | Sand Cover (Full-Depth Reclamation-Cement)                                        | -        | TON   |             |            | Included Above                                           |
|      | 04.14.00 | Mix Design (Full Depth Recycling-Cement)                                          | -        | LS    |             |            | Included Above                                           |
|      | 04.15.00 | Remove Base And Surfacing                                                         | -        | CY    | \$ 15.00    | \$ -       |                                                          |
|      | 04.16.00 | Obliterate Surfacing                                                              | -        | SY    | \$ 8.00     | \$ -       |                                                          |
| 05   | 05.00.00 | Drainage                                                                          |          |       |             | \$ 45,832  |                                                          |
|      | 05.01.00 | Remove Culvert                                                                    | -        | EA    | \$ 1,950.00 | \$ -       | Assume 30' Each                                          |
|      | 05.02.00 | Abandon Culvert                                                                   | -        | EA    | \$ 1,500.00 | \$ -       | Assume 30' Each                                          |
|      | 05.03.00 | 24" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                         | 170      | LF    | \$ 269.60   | \$ 45,832  |                                                          |
|      | 05.04.00 | 54" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                         | -        | LF    | \$ 770.40   | \$ -       |                                                          |
|      | 05.05.00 | Structural Concrete, Box Culvert (Single Cell)                                    | -        | CY    | \$ 2,000.00 | \$ -       |                                                          |
|      | 05.06.00 | Bar Reinforcing Steel (Box Culvert)                                               | -        | LB    | \$ 1.39     | \$ -       |                                                          |

TOTAL ESTIMATE SUMMARY

| Item              | Sub Item | Description                                                                                                                             | Quantity | Unit  | Unit Rate    | Total        | Comment                           |
|-------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------|----------|-------|--------------|--------------|-----------------------------------|
|                   | 05.07.00 | Rock Pad Energy Dissipator (18" D X 5' W X 6' L)                                                                                        | -        | CY    | \$ 175.00    | \$ -         |                                   |
| 06                | 06.00.00 | Specialty Items                                                                                                                         |          |       |              | \$ -         |                                   |
|                   | 06.01.00 | Treated Wood Waste                                                                                                                      | -        | LB    | \$ 0.50      | \$ -         |                                   |
|                   | 06.02.00 | Remove Metal Beam Guard Railing                                                                                                         | -        | LF    | \$ 5.00      | \$ -         |                                   |
|                   | 06.03.00 | Midwest Guardrail System (Wood Post) (Includes Transition Railing, Alternative Flared/In-Line Terminal System, And End Anchor Assembly) | -        | LF    | \$ 28.80     | \$ -         |                                   |
| 07                | 07.00.00 | Retaining Walls                                                                                                                         |          |       |              | \$ -         |                                   |
|                   | 07.05.00 | Retaining Wall - MSE Wall                                                                                                               | -        | SF    | \$ 134.62    | \$ -         | Allowance                         |
|                   | 07.06.00 | Retaining Wall - Tie-Back Wall                                                                                                          | -        | SF    | \$ 115.38    | \$ -         | Allowance                         |
| 08                | 08.00.00 | Traffic Items                                                                                                                           |          |       |              | \$ -         |                                   |
|                   | 08.01.00 | Roadside Sign - One Post                                                                                                                | -        | LF    | \$ 3,500.00  | \$ -         |                                   |
|                   | 08.02.00 | Two-Component Paint Traffic Stripe (6" Yellow), (Includes 2 Yellow Stripes And One                                                      | -        | EA    | \$ 1.97      | \$ -         |                                   |
|                   | 08.03.00 | Two-Component Paint Traffic Stripe (6" White)                                                                                           | -        | EA    | \$ 0.66      | \$ -         |                                   |
|                   | 08.04.00 | Two-Component Paint Pavement Marking                                                                                                    | -        | SQFT  | \$ 14.15     | \$ -         |                                   |
|                   | 08.05.00 | Construction Area Signs                                                                                                                 | -        | LS    | \$ 1,638.55  | \$ -         | Allow 0.5% of Structural Section  |
|                   | 08.06.00 | Portable Changeable Message Sign                                                                                                        | -        | LS    | \$ 819.28    | \$ -         | Allow 0.25% of Structural Section |
|                   | 08.07.00 | Traffic Control System                                                                                                                  | -        | LS    | \$ 819.28    | \$ -         | Allow 0.25% of Structural Section |
| 09                | 09.00.00 | Detours - Install and Remove                                                                                                            |          |       |              | \$ -         |                                   |
|                   | 09.01.00 | Temporary Hot Mix Asphalt (Type A)                                                                                                      | -        | CY    | \$ 129.60    | \$ -         |                                   |
|                   | 09.02.00 | Temporary Class 2 Aggregate Base                                                                                                        | -        | CY    | \$ 100.00    | \$ -         |                                   |
| 10                | 10.00.00 | Bridges                                                                                                                                 |          |       |              | \$ -         |                                   |
|                   | 10.01.00 | Sites Lodoga Road Realignment - New Bridge - CIP PS Concrete Box Girder                                                                 | -        | SF    | \$ 750.00    | \$ -         |                                   |
|                   | 10.02.00 | Road 69 - Replacement (Culver/Bridge)- PC/PS Concrete Slab Girder                                                                       | -        | SF    | \$ 416.67    | \$ -         |                                   |
|                   | 10.03.00 | Road 69 - Replacement Bridge - PC/PS Concrete Box Girder                                                                                | -        | SF    | \$ 583.33    | \$ -         |                                   |
|                   | 10.04.00 | Road 69 - Bridge Widening                                                                                                               | -        | SF    | \$ 50.00     | \$ -         |                                   |
|                   | 10.05.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | -        | SF    | \$ 583.33    | \$ -         |                                   |
|                   | 10.06.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | -        | SF    | \$ 583.33    | \$ -         |                                   |
|                   | 10.07.00 | Funks Construction Access Road - New Bridge - PC/PS Concrete Box Girder                                                                 | -        | SF    | \$ 500.00    | \$ -         |                                   |
|                   | 10.08.00 | Dam Spillway - New Bridge - PC/PS Concrete Slab Girder                                                                                  | -        | SF    | \$ 416.67    | \$ -         |                                   |
| 15                | 15.00.00 | ALLOWANCE FOR UNLISTED ITEMS                                                                                                            |          |       |              | \$ 52,878    |                                   |
|                   | 15.01.00 | Allowance for Unlisted Items                                                                                                            | 5.0%     | %     | \$ 1,057,567 | \$ 52,878    |                                   |
| Total Direct Cost |          |                                                                                                                                         | 0.88     | Miles | \$ 1,264,973 | \$ 1,110,445 |                                   |

Sites Reservoir: 27.3C - North Access Road  
 30% Cost Estimate  
 Sites, CA

Cost Estimate  
 AACEI Class 3  
 February 28, 2025

# **TOTAL ESTIMATE SUMMARY**

|                   |            |
|-------------------|------------|
| Total Direct Cost | 13,518,820 |
|-------------------|------------|

|                                                    |            |
|----------------------------------------------------|------------|
| TOTAL DIRECT COST BEFORE CONTRACTOR INDIRECT COSTS | 13,518,820 |
|----------------------------------------------------|------------|

|                              |       |           |
|------------------------------|-------|-----------|
| Mobilization                 | 3.0%  | 405,565   |
| Field Overhead Costs (GC&GR) | 12.5% | 1,740,548 |
| Insurance                    | 2.0%  | 313,299   |
| Bonds                        | 0.6%  | 95,869    |

|                                 |           |
|---------------------------------|-----------|
| Total Contractor Indirect Costs | 2,555,281 |
|---------------------------------|-----------|

|                       |            |
|-----------------------|------------|
| TOTAL CONTACTOR COSTS | 16,074,101 |
|-----------------------|------------|

|                            |      |           |
|----------------------------|------|-----------|
| Home Office Overhead (G&A) | 5.5% | 884,076   |
| GC Profit                  | 8.0% | 1,356,654 |

|                                      |           |
|--------------------------------------|-----------|
| Total Contractor Overhead and Profit | 2,240,730 |
|--------------------------------------|-----------|

|                                              |            |
|----------------------------------------------|------------|
| TOTAL CONSTRUCTION COST BEFORE CONTINGENCIES | 18,314,831 |
|----------------------------------------------|------------|

|                            |       |           |
|----------------------------|-------|-----------|
| Contingencies              |       |           |
| Design Contingencies       | 12.7% | 2,325,984 |
| Construction Contingencies | 15.0% | 3,096,122 |

|                             |           |
|-----------------------------|-----------|
| Total Contingency Allowance | 5,422,106 |
|-----------------------------|-----------|

|                              |            |
|------------------------------|------------|
| TOTAL COST BEFORE ESCALATION | 23,736,937 |
|------------------------------|------------|

|                                         |           |    |   |
|-----------------------------------------|-----------|----|---|
| Escalation to Mid-point of Construction | By Others | 0% | - |
|-----------------------------------------|-----------|----|---|

|                                 |            |
|---------------------------------|------------|
| RECOMMENDED CONSTRUCTION BUDGET | 23,736,937 |
|---------------------------------|------------|

|                    |           |      |   |
|--------------------|-----------|------|---|
| Non-Contract Costs | By Others | 0.0% | - |
|--------------------|-----------|------|---|

|                |            |
|----------------|------------|
| TOTAL ESTIMATE | 23,736,937 |
|----------------|------------|

Sites Reservoir: 27.3C - North Access Road  
30% Cost Estimate  
Sites, CA

Cost Estimate  
AAEII Class 3  
May 22, 2024

DIRECT COST LEVEL 2 SUMMARY

| Item | Sub Item | Description                                                                                                                             | UoM   | Qty     | Unit Rate | Total      |
|------|----------|-----------------------------------------------------------------------------------------------------------------------------------------|-------|---------|-----------|------------|
|      |          | Total Road Length                                                                                                                       | Miles | 5.2     |           | 2,597,219  |
|      |          | Total Road Length                                                                                                                       | LF    | 27,483  |           | 492        |
|      |          | Average Width                                                                                                                           | Feet  | 32      |           |            |
|      |          | Area                                                                                                                                    | SF    | 879,456 |           | 15         |
| 01   | 01.00.00 | Preconstruction Activities                                                                                                              |       |         |           | 457,415    |
|      | 01.01.00 | Clearing And Grubbing                                                                                                                   | ACRE  | 40      | 8,000.00  | 320,000    |
|      | 01.02.00 | Temporary Silt Fence                                                                                                                    | LF    | 68,708  | 2.00      | 137,415    |
| 02   | 02.00.00 | Roadway Excavation                                                                                                                      | CY    | 107,740 | 10.53     | 1,134,041  |
|      | 02.01.00 | Roadway Excavation - Load, Haul, Compact - Top Loading                                                                                  | CY    | 32,300  | 10.38     | 335,279    |
|      | 02.02.00 | Roadway Excavation - Load, Haul, Compact - Excess - Top Loading                                                                         | CY    | 64,660  | 10.37     | 670,557    |
|      | 02.03.00 | Roadway Excavation - Load, Haul, Waste - Organics - Scraper                                                                             | CY    | 10,780  | 7.09      | 76,463     |
|      | 02.04.00 | Roadway Excavation - Rock Cut - Drill and Shoot                                                                                         | CY    | 4,850   | 10.67     | 51,742     |
|      | 02.05.00 | Roadway Fill from Borrow - Load, Haul, Compact                                                                                          | CY    | -       |           | -          |
|      | 02.06.00 | Roadway Excavation (Causeway Removal of Alluvium Materials)                                                                             | CY    | -       |           | -          |
|      | 02.07.00 | Roadway Fill (Replacement of Alluvium with 10% Swell Factor)                                                                            | CY    | -       |           | -          |
| 03   | 03.00.00 | Causeway Protection                                                                                                                     |       |         |           | -          |
|      | 03.01.00 | RSP Fabric (Type A)                                                                                                                     | SY    | -       |           | -          |
|      | 03.02.00 | RSP Bedding No. 1 (Method B) - Zone 7A                                                                                                  | CY    | -       |           | -          |
|      | 03.03.00 | Rock Slope Protection (1/4 T, Method B) - Zone 7B                                                                                       | CY    | -       |           | -          |
| 04   | 04.00.00 | Pavement Structural Section                                                                                                             |       |         |           | 10,620,056 |
|      | 04.01.00 | Hot Mix Asphalt (Type A)                                                                                                                | TON   | -       |           | -          |
|      | 04.02.00 | Jointed Plain Concrete Pavement (A.K.A. PCC Pavement)                                                                                   | CY    | -       |           | -          |
|      | 04.03.00 | Seal Pavement Joint                                                                                                                     | LF    | -       |           | -          |
|      | 04.04.00 | Seal Longitudinal Isolation Joint                                                                                                       | LF    | -       |           | -          |
|      | 04.05.00 | Class 2 Aggregate Base                                                                                                                  | CY    | 93,350  | 85.91     | 8,020,056  |
|      | 04.06.00 | Shoulder Backing (Class 2 AB Material Daylight To Side Slope)                                                                           | TON   | 52,000  | 50.00     | 2,600,000  |
|      | 04.07.00 | Cold Plane Asphalt Concrete Pavement                                                                                                    | SY    | -       |           | -          |
|      | 04.08.00 | Tack Coat                                                                                                                               | TON   | -       |           | -          |
|      | 04.09.00 | Full Depth Reclamation-Cement                                                                                                           | SY    | -       |           | -          |
|      | 04.15.00 | Remove Base And Surfacing                                                                                                               | CY    | -       |           | -          |
|      | 04.16.00 | Obliterate Surfacing                                                                                                                    | SY    | -       |           | -          |
| 05   | 05.00.00 | Drainage                                                                                                                                |       |         |           | 524,428    |
|      | 05.01.00 | Remove Culvert                                                                                                                          | EA    | 30      | 1,950.00  | 58,500     |
|      | 05.02.00 | Abandon Culvert                                                                                                                         | EA    | 4       | 1,500.00  | 6,000      |
|      | 05.03.00 | 24" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                                                                               | LF    | 1,680   | 269.60    | 452,928    |
|      | 05.04.00 | 54" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                                                                               | LF    | -       |           | -          |
|      | 05.05.00 | Structural Concrete, Box Culvert (Single Cell)                                                                                          | CY    | -       |           | -          |
|      | 05.06.00 | Bar Reinforcing Steel (Box Culvert)                                                                                                     | LB    | -       |           | -          |
|      | 05.07.00 | Rock Pad Energy Dissipator (18" D X 5' W X 6' L)                                                                                        | CY    | 40      | 175.00    | 7,000      |
| 06   | 06.00.00 | Specialty Items                                                                                                                         |       |         |           | 40,526     |
|      | 06.01.00 | Treated Wood Waste                                                                                                                      | LB    | 10,820  | 0.50      | 5,410      |
|      | 06.02.00 | Remove Metal Beam Guard Railing                                                                                                         | LF    | 860     | 5.00      | 4,300      |
|      | 06.03.00 | Midwest Guardrail System (Wood Post) (Includes Transition Railing, Alternative Flared/In-Line Terminal System, And End Anchor Assembly) | LF    | 1,070   | 28.80     | 30,816     |
| 07   | 07.00.00 | Retaining Walls                                                                                                                         |       |         |           | -          |
|      | 07.05.00 | Retaining Wall - MSE Wall                                                                                                               | SF    | -       |           | -          |
|      | 07.06.00 | Retaining Wall - Tie-Back Wall                                                                                                          | SF    | -       |           | -          |
| 08   | 08.00.00 | Traffic Items                                                                                                                           |       |         |           | 98,600     |
|      | 08.01.00 | Roadside Sign - One Post                                                                                                                | LF    | 13      | 3,500.00  | 45,500     |
|      | 08.02.00 | Two-Component Paint Traffic Stripe (6" Yellow), (Includes 2 Yellow Stripes And One Black)                                               | EA    | -       |           | -          |
|      | 08.03.00 | Two-Component Paint Traffic Stripe (6" White)                                                                                           | EA    | -       |           | -          |
|      | 08.04.00 | Two-Component Paint Pavement Marking                                                                                                    | SQFT  | -       |           | -          |
|      | 08.05.00 | Construction Area Signs                                                                                                                 | LS    | 1       | 53,100.28 | 53,100     |
|      | 08.06.00 | Portable Changeable Message Sign                                                                                                        | LS    | -       |           | -          |
|      | 08.07.00 | Traffic Control System                                                                                                                  | LS    | -       |           | -          |
| 09   | 09.00.00 | Detours - Install and Remove                                                                                                            |       |         |           | -          |
|      | 09.01.00 | Temporary Hot Mix Asphalt (Type A)                                                                                                      | CY    | -       |           | -          |
|      | 09.02.00 | Temporary Class 2 Aggregate Base                                                                                                        | CY    | -       |           | -          |
| 10   | 10.00.00 | Bridges                                                                                                                                 |       |         |           | -          |
|      | 10.01.00 | Sites Lodoga Road Realignment - New Bridge - CIP PS Concrete Box Girder                                                                 | SF    | -       |           | -          |
|      | 10.02.00 | Road 69 - Replacement (Culver/Bridge)- PC/PS Concrete Slab Girder                                                                       | SF    | -       |           | -          |
|      | 10.03.00 | Road 69 - Replacement Bridge - PC/PS Concrete Box Girder                                                                                | SF    | -       |           | -          |
|      | 10.04.00 | Road 69 - Bridge Widening                                                                                                               | SF    | -       |           | -          |
|      | 10.05.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | SF    | -       |           | -          |
|      | 10.06.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | SF    | -       |           | -          |
|      | 10.07.00 | Funks Construction Access Road - New Bridge - PC/PS Concrete Box Girder                                                                 | SF    | -       |           | -          |
|      | 10.08.00 | Dam Spillway - New Bridge - PC/PS Concrete Slab Girder                                                                                  | SF    | -       |           | -          |
| 15   | 15.00.00 | ALLOWANCE FOR UNLISTED ITEMS                                                                                                            |       |         |           | 643,753    |
|      | 15.01.00 | Allowance for Unlisted Items                                                                                                            | %     | 5.0%    |           | 643,753    |
|      |          | Total Direct Cost                                                                                                                       | -     |         |           | 13,518,820 |

TOTAL ESTIMATE SUMMARY

| Item | Sub Item | Description                                                                       | Quantity | Unit  | Unit Rate   | Total         | Comment                                                  |
|------|----------|-----------------------------------------------------------------------------------|----------|-------|-------------|---------------|----------------------------------------------------------|
|      |          | Total Road Length                                                                 | 5.2      | Miles |             |               |                                                          |
|      |          | Total Road Length                                                                 | 27,483   | LF    |             |               |                                                          |
|      |          | Average Width                                                                     | 32       | Feet  |             |               |                                                          |
|      |          | Area                                                                              | 879,456  | SF    |             |               |                                                          |
| 01   | 01.00.00 | Preconstruction Activities                                                        |          |       | \$ -        | \$ 457,415    |                                                          |
|      | 01.01.00 | Clearing And Grubbing                                                             | 40       | ACRE  | \$ 8,000.00 | \$ 320,000    |                                                          |
|      | 01.02.00 | Temporary Silt Fence                                                              | 68,708   | LF    | \$ 2.00     | \$ 137,415    | Allowance by Estimating                                  |
| 02   | 02.00.00 | Roadway Excavation                                                                |          |       |             | \$ 1,134,041  |                                                          |
|      | 02.01.00 | Roadway Excavation - Load, Haul, Compact - Top Loading - 0.175 Mile Haul          | 32,300   | CY    | 10.38       | 335,279       | Includes Rock Excavation Load, Haul, Compact             |
|      | 02.02.00 | Roadway Excavation - Load, Haul, Compact - Excess - Top Loading - 0.175 Mile Haul | 64,660   | CY    | 10.37       | 670,557       | Includes Rock Excavation Load, Haul, Compact             |
|      | 02.03.00 | Roadway Excavation - Load, Haul, Waste - Organics - Scraper - 0.25 Mile Haul      | 10,780   | CY    | 7.09        | 76,463        |                                                          |
|      | 02.04.00 | Roadway Excavation - Rock Cut - Drill and Shoot                                   | 4,850    | CY    | 10.67       | 51,742        |                                                          |
|      | 02.04.10 | Drill Rock & Shoot                                                                | 4,850    | CY    | 10.67       | 51,742        | Drill and Shoot Only                                     |
|      | 02.04.20 | Load, Haul, Stockpile                                                             | -        | CY    | -           | -             | Load, haul, compact included above 02.01.00 and 02.02.00 |
|      | 02.05.00 | Roadway Fill from Borrow - Load, Haul, Compact                                    | -        | CY    | -           | -             |                                                          |
|      | 02.05.10 | Load, Haul, and Compact - Scraper - 0.5 Mile Haul                                 | -        | CY    | -           | -             |                                                          |
|      | 02.05.20 | Load, Haul, and Compact - Top Loading - 0.5 Mile Haul                             | -        | CY    | -           | -             |                                                          |
|      | 02.06.00 | Roadway Excavation (Causeway Removal of Alluvium Materials)                       | -        | CY    | -           | -             |                                                          |
|      | 02.07.00 | Roadway Fill (Replacement of Alluvium with 10% Swell Factor)                      | -        | CY    | -           | -             |                                                          |
| 03   | 03.00.00 | Causeway Protection                                                               |          |       |             | \$ -          |                                                          |
|      | 03.01.00 | RSP Fabric (Type A)                                                               | -        | SY    | \$ -        | \$ -          |                                                          |
|      | 03.02.00 | RSP Bedding No. 1 (Method B) - Zone 7A                                            | -        | CY    | \$ -        | \$ -          |                                                          |
|      | 03.02.01 | Blasting operations                                                               | -        | CY    | \$ 6.00     | \$ -          |                                                          |
|      | 03.02.02 | Excavate to Processing                                                            | -        | CY    | \$ 3.00     | \$ -          |                                                          |
|      | 03.02.03 | Process                                                                           | -        | CY    | \$ 30.00    | \$ -          |                                                          |
|      | 03.02.04 | Load, Haul, Place Bedding                                                         | -        | CY    | \$ -        | \$ -          |                                                          |
|      | 03.03.00 | Rock Slope Protection (1/4 T, Method B) - Zone 7B                                 | -        | CY    | \$ -        | \$ -          |                                                          |
|      | 03.03.01 | Blasting operations                                                               | -        | CY    | \$ 6.00     | \$ -          |                                                          |
|      | 03.03.02 | Excavate to Processing                                                            | -        | CY    | \$ 3.00     | \$ -          |                                                          |
|      | 03.03.03 | Process Riprap                                                                    | -        | CY    | \$ 32.00    | \$ -          |                                                          |
|      | 03.03.04 | Load, Haul, Place Rip Rap                                                         | -        | CY    | \$ -        | \$ -          |                                                          |
| 04   | 04.00.00 | Pavement Structural Section                                                       |          | CY    |             | \$ 10,620,056 |                                                          |
|      | 04.01.00 | Hot Mix Asphalt (Type A)                                                          | -        | TON   | \$ -        | \$ -          |                                                          |
|      | 04.02.00 | Jointed Plain Concrete Pavement (A.K.A. PCC Pavement)                             | -        | CY    | \$ -        | \$ -          |                                                          |
|      | 04.03.00 | Seal Pavement Joint                                                               | -        | LF    | \$ 2.00     | \$ -          |                                                          |
|      | 04.04.00 | Seal Longitudinal Isolation Joint                                                 | -        | LF    | \$ 2.00     | \$ -          |                                                          |
|      | 04.05.00 | Class 2 Aggregate Base                                                            | 93,350   | CY    | \$ 85.91    | \$ 8,020,056  | Haul 75 Miles, Direct Placement                          |
|      | 04.06.00 | Shoulder Backing (Class 2 AB Material Daylight To Side Slope)                     | 52,000   | TON   | \$ 50.00    | \$ 2,600,000  |                                                          |
|      | 04.07.00 | Cold Plane Asphalt Concrete Pavement                                              | -        | SY    | \$ 3.00     | \$ -          |                                                          |
|      | 04.08.00 | Tack Coat                                                                         | -        | TON   | \$ -        | \$ -          |                                                          |
|      | 04.09.00 | Full Depth Reclamation-Cement                                                     | -        | SY    | \$ -        | \$ -          | Mixing, Compacting                                       |
|      | 04.10.00 | Cement (Full Depth Reclamation-Cement)                                            | -        | TON   |             |               | Included Above                                           |
|      | 04.11.00 | Supplementary Aggregate (Full Depth Recycling-Cement)                             | -        | TON   |             |               | Included Above                                           |
|      | 04.12.00 | Asphaltic Emulsion (Full Depth Recycling-Cement)                                  | -        | TON   |             |               | Included Above                                           |
|      | 04.13.00 | Sand Cover (Full-Depth Reclamation-Cement)                                        | -        | TON   |             |               | Included Above                                           |
|      | 04.14.00 | Mix Design (Full Depth Recycling-Cement)                                          | -        | LS    |             |               | Included Above                                           |
|      | 04.15.00 | Remove Base And Surfacing                                                         | -        | CY    | \$ 15.00    | \$ -          |                                                          |
|      | 04.16.00 | Obliterate Surfacing                                                              | -        | SY    | \$ 8.00     | \$ -          |                                                          |
| 05   | 05.00.00 | Drainage                                                                          |          |       |             | \$ 524,428    |                                                          |
|      | 05.01.00 | Remove Culvert                                                                    | 30       | EA    | \$ 1,950.00 | \$ 58,500     | Assume 30' Each                                          |
|      | 05.02.00 | Abandon Culvert                                                                   | 4        | EA    | \$ 1,500.00 | \$ 6,000      | Assume 30' Each                                          |
|      | 05.03.00 | 24" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                         | 1,680    | LF    | \$ 269.60   | \$ 452,928    |                                                          |
|      | 05.04.00 | 54" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                         | -        | LF    | \$ 770.40   | \$ -          |                                                          |
|      | 05.05.00 | Structural Concrete, Box Culvert (Single Cell)                                    | -        | CY    | \$ 2,000.00 | \$ -          |                                                          |
|      | 05.06.00 | Bar Reinforcing Steel (Box Culvert)                                               | -        | LB    | \$ 1.39     | \$ -          |                                                          |

TOTAL ESTIMATE SUMMARY

| Item              | Sub Item | Description                                                                                                                             | Quantity | Unit  | Unit Rate     | Total         | Comment                           |
|-------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------|----------|-------|---------------|---------------|-----------------------------------|
|                   | 05.07.00 | Rock Pad Energy Dissipator (18" D X 5' W X 6' L)                                                                                        | 40       | CY    | \$ 175.00     | \$ 7,000      |                                   |
| 06                | 06.00.00 | Specialty Items                                                                                                                         |          |       |               | \$ 40,526     |                                   |
|                   | 06.01.00 | Treated Wood Waste                                                                                                                      | 10,820   | LB    | \$ 0.50       | \$ 5,410      |                                   |
|                   | 06.02.00 | Remove Metal Beam Guard Railing                                                                                                         | 860      | LF    | \$ 5.00       | \$ 4,300      |                                   |
|                   | 06.03.00 | Midwest Guardrail System (Wood Post) (Includes Transition Railing, Alternative Flared/In-Line Terminal System, And End Anchor Assembly) | 1,070    | LF    | \$ 28.80      | \$ 30,816     |                                   |
| 07                | 07.00.00 | Retaining Walls                                                                                                                         |          |       |               | \$ -          |                                   |
|                   | 07.05.00 | Retaining Wall - MSE Wall                                                                                                               | -        | SF    | \$ 134.62     | \$ -          | Allowance                         |
|                   | 07.06.00 | Retaining Wall - Tie-Back Wall                                                                                                          | -        | SF    | \$ 115.38     | \$ -          | Allowance                         |
| 08                | 08.00.00 | Traffic Items                                                                                                                           |          |       |               | \$ 98,600     |                                   |
|                   | 08.01.00 | Roadside Sign - One Post                                                                                                                | 13       | LF    | \$ 3,500.00   | \$ 45,500     |                                   |
|                   | 08.02.00 | Two-Component Paint Traffic Stripe (6" Yellow), (Includes 2 Yellow Stripes And One                                                      | -        | EA    | \$ 1.97       | \$ -          |                                   |
|                   | 08.03.00 | Two-Component Paint Traffic Stripe (6" White)                                                                                           | -        | EA    | \$ 0.66       | \$ -          |                                   |
|                   | 08.04.00 | Two-Component Paint Pavement Marking                                                                                                    | -        | SQFT  | \$ 14.15      | \$ -          |                                   |
|                   | 08.05.00 | Construction Area Signs                                                                                                                 | 1        | LS    | \$ 53,100.28  | \$ 53,100     | Allow 0.5% of Structural Section  |
|                   | 08.06.00 | Portable Changeable Message Sign                                                                                                        | -        | LS    | \$ 26,550.14  | \$ -          | Allow 0.25% of Structural Section |
|                   | 08.07.00 | Traffic Control System                                                                                                                  | -        | LS    | \$ 26,550.14  | \$ -          | Allow 0.25% of Structural Section |
| 09                | 09.00.00 | Detours - Install and Remove                                                                                                            |          |       |               | \$ -          |                                   |
|                   | 09.01.00 | Temporary Hot Mix Asphalt (Type A)                                                                                                      | -        | CY    | \$ 129.60     | \$ -          |                                   |
|                   | 09.02.00 | Temporary Class 2 Aggregate Base                                                                                                        | -        | CY    | \$ 100.00     | \$ -          |                                   |
| 10                | 10.00.00 | Bridges                                                                                                                                 |          |       |               | \$ -          |                                   |
|                   | 10.01.00 | Sites Lodoga Road Realignment - New Bridge - CIP PS Concrete Box Girder                                                                 | -        | SF    | \$ 750.00     | \$ -          |                                   |
|                   | 10.02.00 | Road 69 - Replacement (Culver/Bridge)- PC/PS Concrete Slab Girder                                                                       | -        | SF    | \$ 416.67     | \$ -          |                                   |
|                   | 10.03.00 | Road 69 - Replacement Bridge - PC/PS Concrete Box Girder                                                                                | -        | SF    | \$ 583.33     | \$ -          |                                   |
|                   | 10.04.00 | Road 69 - Bridge Widening                                                                                                               | -        | SF    | \$ 50.00      | \$ -          |                                   |
|                   | 10.05.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | -        | SF    | \$ 583.33     | \$ -          |                                   |
|                   | 10.06.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | -        | SF    | \$ 583.33     | \$ -          |                                   |
|                   | 10.07.00 | Funks Construction Access Road - New Bridge - PC/PS Concrete Box Girder                                                                 | -        | SF    | \$ 500.00     | \$ -          |                                   |
|                   | 10.08.00 | Dam Spillway - New Bridge - PC/PS Concrete Slab Girder                                                                                  | -        | SF    | \$ 416.67     | \$ -          |                                   |
| 15                | 15.00.00 | ALLOWANCE FOR UNLISTED ITEMS                                                                                                            |          |       |               | \$ 643,753    |                                   |
|                   | 15.01.00 | Allowance for Unlisted Items                                                                                                            | 5.0%     | %     | \$ 12,875,067 | \$ 643,753    |                                   |
| Total Direct Cost |          |                                                                                                                                         | 5.21     | Miles | \$ 2,597,219  | \$ 13,518,820 |                                   |

Sites Reservoir: 27.3D - Saddle Dam Roads  
30% Cost Estimate  
Sites, CA

Cost Estimate  
AACEI Class 3  
February 28, 2025

**TOTAL ESTIMATE SUMMARY**

|                                                    |                  |      |            |
|----------------------------------------------------|------------------|------|------------|
| Total Direct Cost                                  |                  |      | 7,761,902  |
| TOTAL DIRECT COST BEFORE CONTRACTOR INDIRECT COSTS |                  |      | 7,761,902  |
| Mobilization                                       | 3.0%             |      | 232,857    |
| Field Overhead Costs (GC&GR)                       | 12.5%            |      | 999,345    |
| Insurance                                          | 2.0%             |      | 179,882    |
| Bonds                                              | 0.6%             |      | 55,044     |
| Total Contractor Indirect Costs                    |                  |      | 1,467,128  |
| TOTAL CONTACTOR COSTS                              |                  |      | 9,229,030  |
| Home Office Overhead (G&A)                         | 5.5%             |      | 507,597    |
| GC Profit                                          | 8.0%             |      | 778,930    |
| Total Contractor Overhead and Profit               |                  |      | 1,286,527  |
| TOTAL CONSTRUCTION COST BEFORE CONTINGENCIES       |                  |      | 10,515,557 |
| Contingencies                                      |                  |      |            |
| Design Contingencies                               | 12.7%            |      | 1,335,476  |
| Construction Contingencies                         | 15.0%            |      | 1,777,655  |
| Total Contingency Allowance                        |                  |      | 3,113,131  |
| TOTAL COST BEFORE ESCALATION                       |                  |      | 13,628,688 |
| Escalation to Mid-point of Construction            | <i>By Others</i> | 0%   | -          |
| RECOMMENDED CONSTRUCTION BUDGET                    |                  |      | 13,628,688 |
| Non-Contract Costs                                 | <i>By Others</i> | 0.0% | -          |
| TOTAL ESTIMATE                                     |                  |      | 13,628,688 |

Sites Reservoir: 27.3D - Saddle Dam Roads  
30% Cost Estimate  
Sites, CA

Cost Estimate  
AAEI Class 3  
May 22, 2024

DIRECT COST LEVEL 2 SUMMARY

| Item | Sub Item | Description                                                                                                                             | UoM   | Qty     | Unit Rate | Total     |
|------|----------|-----------------------------------------------------------------------------------------------------------------------------------------|-------|---------|-----------|-----------|
|      |          | Total Road Length                                                                                                                       | Miles | 5.3     |           | 1,462,315 |
|      |          | Total Road Length                                                                                                                       | LF    | 28,026  |           | 277       |
|      |          | Average Width                                                                                                                           | Feet  | 21      |           |           |
|      |          | Area                                                                                                                                    | SF    | 584,832 |           | 13        |
| 01   | 01.00.00 | Preconstruction Activities                                                                                                              |       |         |           | 484,130   |
|      | 01.01.00 | Clearing And Grubbing                                                                                                                   | ACRE  | 43      | 8,000.00  | 344,000   |
|      | 01.02.00 | Temporary Silt Fence                                                                                                                    | LF    | 70,065  | 2.00      | 140,130   |
| 02   | 02.00.00 | Roadway Excavation                                                                                                                      | CY    | 275,270 | 12.09     | 3,326,943 |
|      | 02.01.00 | Roadway Excavation - Load, Haul, Compact - Top Loading                                                                                  | CY    | 85,730  | 10.56     | 905,252   |
|      | 02.02.00 | Roadway Excavation - Load, Haul, Compact - Excess - Top Loading                                                                         | CY    | 162,000 | 10.35     | 1,676,393 |
|      | 02.03.00 | Roadway Excavation - Load, Haul, Waste - Organics - Scraper                                                                             | CY    | 27,540  | 6.94      | 191,158   |
|      | 02.04.00 | Roadway Excavation - Rock Cut - Drill and Shoot                                                                                         | CY    | 61,940  | 8.95      | 554,139   |
|      | 02.05.00 | Roadway Fill from Borrow - Load, Haul, Compact                                                                                          | CY    | -       |           | -         |
|      | 02.06.00 | Roadway Excavation (Causeway Removal of Alluvium Materials)                                                                             | CY    | -       |           | -         |
|      | 02.07.00 | Roadway Fill (Replacement of Alluvium with 10% Swell Factor)                                                                            | CY    | -       |           | -         |
| 03   | 03.00.00 | Causeway Protection                                                                                                                     |       |         |           | -         |
|      | 03.01.00 | RSP Fabric (Type A)                                                                                                                     | SY    | -       |           | -         |
|      | 03.02.00 | RSP Bedding No. 1 (Method B) - Zone 7A                                                                                                  | CY    | -       |           | -         |
|      | 03.03.00 | Rock Slope Protection (1/4 T, Method B) - Zone 7B                                                                                       | CY    | -       |           | -         |
| 04   | 04.00.00 | Pavement Structural Section                                                                                                             |       |         |           | 2,527,028 |
|      | 04.01.00 | Hot Mix Asphalt (Type A)                                                                                                                | TON   | -       |           | -         |
|      | 04.02.00 | Jointed Plain Concrete Pavement (A.K.A. PCC Pavement)                                                                                   | CY    | -       |           | -         |
|      | 04.03.00 | Seal Pavement Joint                                                                                                                     | LF    | -       |           | -         |
|      | 04.04.00 | Seal Longitudinal Isolation Joint                                                                                                       | LF    | -       |           | -         |
|      | 04.05.00 | Class 2 Aggregate Base                                                                                                                  | CY    | 24,120  | 85.88     | 2,071,528 |
|      | 04.06.00 | Shoulder Backing (Class 2 AB Material Daylight To Side Slope)                                                                           | TON   | 9,110   | 50.00     | 455,500   |
|      | 04.07.00 | Cold Plane Asphalt Concrete Pavement                                                                                                    | SY    | -       |           | -         |
|      | 04.08.00 | Tack Coat                                                                                                                               | TON   | -       |           | -         |
|      | 04.09.00 | Full Depth Reclamation-Cement                                                                                                           | SY    | -       |           | -         |
|      | 04.15.00 | Remove Base And Surfacing                                                                                                               | CY    | -       |           | -         |
|      | 04.16.00 | Obliterate Surfacing                                                                                                                    | SY    | -       |           | -         |
| 05   | 05.00.00 | Drainage                                                                                                                                |       |         |           | 186,128   |
|      | 05.01.00 | Remove Culvert                                                                                                                          | EA    | -       |           | -         |
|      | 05.02.00 | Abandon Culvert                                                                                                                         | EA    | -       |           | -         |
|      | 05.03.00 | 24" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                                                                               | LF    | 680     | 269.60    | 183,328   |
|      | 05.04.00 | 54" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                                                                               | LF    | -       |           | -         |
|      | 05.05.00 | Structural Concrete, Box Culvert (Single Cell)                                                                                          | CY    | -       |           | -         |
|      | 05.06.00 | Bar Reinforcing Steel (Box Culvert)                                                                                                     | LB    | -       |           | -         |
|      | 05.07.00 | Rock Pad Energy Dissipator (18" D X 5' W X 6' L)                                                                                        | CY    | 16      | 175.00    | 2,800     |
| 06   | 06.00.00 | Specialty Items                                                                                                                         |       |         |           | 427,392   |
|      | 06.01.00 | Treated Wood Waste                                                                                                                      | LB    | -       |           | -         |
|      | 06.02.00 | Remove Metal Beam Guard Railing                                                                                                         | LF    | -       |           | -         |
|      | 06.03.00 | Midwest Guardrail System (Wood Post) (Includes Transition Railing, Alternative Flared/In-Line Terminal System, And End Anchor Assembly) | LF    | 14,840  | 28.80     | 427,392   |
| 07   | 07.00.00 | Retaining Walls                                                                                                                         |       |         |           | -         |
|      | 07.05.00 | Retaining Wall - MSE Wall                                                                                                               | SF    | -       |           | -         |
|      | 07.06.00 | Retaining Wall - Tie-Back Wall                                                                                                          | SF    | -       |           | -         |
| 08   | 08.00.00 | Traffic Items                                                                                                                           |       |         |           | 49,000    |
|      | 08.01.00 | Roadside Sign - One Post                                                                                                                | LF    | 14      | 3,500.00  | 49,000    |
|      | 08.02.00 | Two-Component Paint Traffic Stripe (6" Yellow), (Includes 2 Yellow Stripes And One Black)                                               | EA    | -       |           | -         |
|      | 08.03.00 | Two-Component Paint Traffic Stripe (6" White)                                                                                           | EA    | -       |           | -         |
|      | 08.04.00 | Two-Component Paint Pavement Marking                                                                                                    | SQFT  | -       |           | -         |
|      | 08.05.00 | Construction Area Signs                                                                                                                 | LS    | -       |           | -         |
|      | 08.06.00 | Portable Changeable Message Sign                                                                                                        | LS    | -       |           | -         |
|      | 08.07.00 | Traffic Control System                                                                                                                  | LS    | -       |           | -         |
| 09   | 09.00.00 | Detours - Install and Remove                                                                                                            |       |         |           | -         |
|      | 09.01.00 | Temporary Hot Mix Asphalt (Type A)                                                                                                      | CY    | -       |           | -         |
|      | 09.02.00 | Temporary Class 2 Aggregate Base                                                                                                        | CY    | -       |           | -         |
| 10   | 10.00.00 | Bridges                                                                                                                                 |       |         |           | 391,667   |
|      | 10.01.00 | Sites Lodoga Road Realignment - New Bridge - CIP PS Concrete Box Girder                                                                 | SF    | -       |           | -         |
|      | 10.02.00 | Road 69 - Replacement (Culver/Bridge)- PC/PS Concrete Slab Girder                                                                       | SF    | -       |           | -         |
|      | 10.03.00 | Road 69 - Replacement Bridge - PC/PS Concrete Box Girder                                                                                | SF    | -       |           | -         |
|      | 10.04.00 | Road 69 - Bridge Widening                                                                                                               | SF    | -       |           | -         |
|      | 10.05.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | SF    | -       |           | -         |
|      | 10.06.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | SF    | -       |           | -         |
|      | 10.07.00 | Funks Construction Access Road - New Bridge - PC/PS Concrete Box Girder                                                                 | SF    | -       |           | -         |
|      | 10.08.00 | Dam Spillway - New Bridge - PC/PS Concrete Slab Girder                                                                                  | SF    | 940     | 416.67    | 391,667   |
| 15   | 15.00.00 | ALLOWANCE FOR UNLISTED ITEMS                                                                                                            |       |         |           | 369,614   |
|      | 15.01.00 | Allowance for Unlisted Items                                                                                                            | %     | 5.0%    |           | 369,614   |
|      |          | Total Direct Cost                                                                                                                       | -     |         |           | 7,761,902 |

TOTAL ESTIMATE SUMMARY

| Item | Sub Item | Description                                                                       | Quantity | Unit  | Unit Rate   | Total        | Comment                                                  |
|------|----------|-----------------------------------------------------------------------------------|----------|-------|-------------|--------------|----------------------------------------------------------|
|      |          | Total Road Length                                                                 | 5.3      | Miles |             |              |                                                          |
|      |          | Total Road Length                                                                 | 28,026   | LF    |             |              |                                                          |
|      |          | Average Width                                                                     | 21       | Feet  |             |              |                                                          |
|      |          | Area                                                                              | 584,832  | SF    |             |              |                                                          |
| 01   | 01.00.00 | Preconstruction Activities                                                        |          |       | \$ -        | \$ 484,130   |                                                          |
|      | 01.01.00 | Clearing And Grubbing                                                             | 43       | ACRE  | \$ 8,000.00 | \$ 344,000   |                                                          |
|      | 01.02.00 | Temporary Silt Fence                                                              | 70,065   | LF    | \$ 2.00     | \$ 140,130   | Allowance by Estimating                                  |
| 02   | 02.00.00 | Roadway Excavation                                                                |          |       |             | \$ 3,326,943 |                                                          |
|      | 02.01.00 | Roadway Excavation - Load, Haul, Compact - Top Loading - 0.175 Mile Haul          | 85,730   | CY    | 10.56       | 905,252      | Includes Rock Excavation Load, Haul, Compact             |
|      | 02.02.00 | Roadway Excavation - Load, Haul, Compact - Excess - Top Loading - 0.175 Mile Haul | 162,000  | CY    | 10.35       | 1,676,393    | Includes Rock Excavation Load, Haul, Compact             |
|      | 02.03.00 | Roadway Excavation - Load, Haul, Waste - Organics - Scraper - 0.25 Mile Haul      | 27,540   | CY    | 6.94        | 191,158      |                                                          |
|      | 02.04.00 | Roadway Excavation - Rock Cut - Drill and Shoot                                   | 61,940   | CY    | 8.95        | 554,139      |                                                          |
|      | 02.04.10 | Drill Rock & Shoot                                                                | 61,940   | CY    | 8.95        | 554,139      | Drill and Shoot Only                                     |
|      | 02.04.20 | Load, Haul, Stockpile                                                             | -        | CY    | -           | -            | Load, haul, compact included above 02.01.00 and 02.02.00 |
|      | 02.05.00 | Roadway Fill from Borrow - Load, Haul, Compact                                    | -        | CY    | -           | -            |                                                          |
|      | 02.05.10 | Load, Haul, and Compact - Scraper - 0.5 Mile Haul                                 | -        | CY    | -           | -            |                                                          |
|      | 02.05.20 | Load, Haul, and Compact - Top Loading - 0.5 Mile Haul                             | -        | CY    | -           | -            |                                                          |
|      | 02.06.00 | Roadway Excavation (Causeway Removal of Alluvium Materials)                       | -        | CY    | -           | -            |                                                          |
|      | 02.07.00 | Roadway Fill (Replacement of Alluvium with 10% Swell Factor)                      | -        | CY    | -           | -            |                                                          |
| 03   | 03.00.00 | Causeway Protection                                                               |          |       |             | \$ -         |                                                          |
|      | 03.01.00 | RSP Fabric (Type A)                                                               | -        | SY    | \$ -        | \$ -         |                                                          |
|      | 03.02.00 | RSP Bedding No. 1 (Method B) - Zone 7A                                            | -        | CY    | \$ -        | \$ -         |                                                          |
|      | 03.02.01 | Blasting operations                                                               | -        | CY    | \$ 6.00     | \$ -         |                                                          |
|      | 03.02.02 | Excavate to Processing                                                            | -        | CY    | \$ 3.00     | \$ -         |                                                          |
|      | 03.02.03 | Process                                                                           | -        | CY    | \$ 30.00    | \$ -         |                                                          |
|      | 03.02.04 | Load, Haul, Place Bedding                                                         | -        | CY    | \$ -        | \$ -         |                                                          |
|      | 03.03.00 | Rock Slope Protection (1/4 T, Method B) - Zone 7B                                 | -        | CY    | \$ -        | \$ -         |                                                          |
|      | 03.03.01 | Blasting operations                                                               | -        | CY    | \$ 6.00     | \$ -         |                                                          |
|      | 03.03.02 | Excavate to Processing                                                            | -        | CY    | \$ 3.00     | \$ -         |                                                          |
|      | 03.03.03 | Process Riprap                                                                    | -        | CY    | \$ 32.00    | \$ -         |                                                          |
|      | 03.03.04 | Load, Haul, Place Rip Rap                                                         | -        | CY    | \$ -        | \$ -         |                                                          |
| 04   | 04.00.00 | Pavement Structural Section                                                       |          | CY    |             | \$ 2,527,028 |                                                          |
|      | 04.01.00 | Hot Mix Asphalt (Type A)                                                          | -        | TON   | \$ -        | \$ -         |                                                          |
|      | 04.02.00 | Jointed Plain Concrete Pavement (A.K.A. PCC Pavement)                             | -        | CY    | \$ -        | \$ -         |                                                          |
|      | 04.03.00 | Seal Pavement Joint                                                               | -        | LF    | \$ 2.00     | \$ -         |                                                          |
|      | 04.04.00 | Seal Longitudinal Isolation Joint                                                 | -        | LF    | \$ 2.00     | \$ -         |                                                          |
|      | 04.05.00 | Class 2 Aggregate Base                                                            | 24,120   | CY    | \$ 85.88    | \$ 2,071,528 | Haul 75 Miles, Direct Placement                          |
|      | 04.06.00 | Shoulder Backing (Class 2 AB Material Daylight To Side Slope)                     | 9,110    | TON   | \$ 50.00    | \$ 455,500   |                                                          |
|      | 04.07.00 | Cold Plane Asphalt Concrete Pavement                                              | -        | SY    | \$ 3.00     | \$ -         |                                                          |
|      | 04.08.00 | Tack Coat                                                                         | -        | TON   | \$ -        | \$ -         |                                                          |
|      | 04.09.00 | Full Depth Reclamation-Cement                                                     | -        | SY    | \$ -        | \$ -         | Mixing, Compacting                                       |
|      | 04.10.00 | Cement (Full Depth Reclamation-Cement)                                            | -        | TON   |             |              | Included Above                                           |
|      | 04.11.00 | Supplementary Aggregate (Full Depth Recycling-Cement)                             | -        | TON   |             |              | Included Above                                           |
|      | 04.12.00 | Asphaltic Emulsion (Full Depth Recycling-Cement)                                  | -        | TON   |             |              | Included Above                                           |
|      | 04.13.00 | Sand Cover (Full-Depth Reclamation-Cement)                                        | -        | TON   |             |              | Included Above                                           |
|      | 04.14.00 | Mix Design (Full Depth Recycling-Cement)                                          | -        | LS    |             |              | Included Above                                           |
|      | 04.15.00 | Remove Base And Surfacing                                                         | -        | CY    | \$ 15.00    | \$ -         |                                                          |
|      | 04.16.00 | Obliterate Surfacing                                                              | -        | SY    | \$ 8.00     | \$ -         |                                                          |
| 05   | 05.00.00 | Drainage                                                                          |          |       |             | \$ 186,128   |                                                          |
|      | 05.01.00 | Remove Culvert                                                                    | -        | EA    | \$ 1,950.00 | \$ -         | Assume 30' Each                                          |
|      | 05.02.00 | Abandon Culvert                                                                   | -        | EA    | \$ 1,500.00 | \$ -         | Assume 30' Each                                          |
|      | 05.03.00 | 24" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                         | 680      | LF    | \$ 269.60   | \$ 183,328   |                                                          |
|      | 05.04.00 | 54" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                         | -        | LF    | \$ 770.40   | \$ -         |                                                          |
|      | 05.05.00 | Structural Concrete, Box Culvert (Single Cell)                                    | -        | CY    | \$ 2,000.00 | \$ -         |                                                          |
|      | 05.06.00 | Bar Reinforcing Steel (Box Culvert)                                               | -        | LB    | \$ 1.39     | \$ -         |                                                          |

TOTAL ESTIMATE SUMMARY

| Item              | Sub Item | Description                                                                                                                             | Quantity | Unit  | Unit Rate    | Total        | Comment                           |
|-------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------|----------|-------|--------------|--------------|-----------------------------------|
|                   | 05.07.00 | Rock Pad Energy Dissipator (18" D X 5' W X 6' L)                                                                                        | 16       | CY    | \$ 175.00    | \$ 2,800     |                                   |
| 06                | 06.00.00 | Specialty Items                                                                                                                         |          |       |              | \$ 427,392   |                                   |
|                   | 06.01.00 | Treated Wood Waste                                                                                                                      | -        | LB    | \$ 0.50      | \$ -         |                                   |
|                   | 06.02.00 | Remove Metal Beam Guard Railing                                                                                                         | -        | LF    | \$ 5.00      | \$ -         |                                   |
|                   | 06.03.00 | Midwest Guardrail System (Wood Post) (Includes Transition Railing, Alternative Flared/In-Line Terminal System, And End Anchor Assembly) | 14,840   | LF    | \$ 28.80     | \$ 427,392   |                                   |
| 07                | 07.00.00 | Retaining Walls                                                                                                                         |          |       |              | \$ -         |                                   |
|                   | 07.05.00 | Retaining Wall - MSE Wall                                                                                                               | -        | SF    | \$ 134.62    | \$ -         | Allowance                         |
|                   | 07.06.00 | Retaining Wall - Tie-Back Wall                                                                                                          | -        | SF    | \$ 115.38    | \$ -         | Allowance                         |
| 08                | 08.00.00 | Traffic Items                                                                                                                           |          |       |              | \$ 49,000    |                                   |
|                   | 08.01.00 | Roadside Sign - One Post                                                                                                                | 14       | LF    | \$ 3,500.00  | \$ 49,000    |                                   |
|                   | 08.02.00 | Two-Component Paint Traffic Stripe (6" Yellow), (Includes 2 Yellow Stripes And One                                                      | -        | EA    | \$ 1.97      | \$ -         |                                   |
|                   | 08.03.00 | Two-Component Paint Traffic Stripe (6" White)                                                                                           | -        | EA    | \$ 0.66      | \$ -         |                                   |
|                   | 08.04.00 | Two-Component Paint Pavement Marking                                                                                                    | -        | SQFT  | \$ 14.15     | \$ -         |                                   |
|                   | 08.05.00 | Construction Area Signs                                                                                                                 | -        | LS    | \$ 12,635.14 | \$ -         | Allow 0.5% of Structural Section  |
|                   | 08.06.00 | Portable Changeable Message Sign                                                                                                        | -        | LS    | \$ 6,317.57  | \$ -         | Allow 0.25% of Structural Section |
|                   | 08.07.00 | Traffic Control System                                                                                                                  | -        | LS    | \$ 6,317.57  | \$ -         | Allow 0.25% of Structural Section |
| 09                | 09.00.00 | Detours - Install and Remove                                                                                                            |          |       |              | \$ -         |                                   |
|                   | 09.01.00 | Temporary Hot Mix Asphalt (Type A)                                                                                                      | -        | CY    | \$ 129.60    | \$ -         |                                   |
|                   | 09.02.00 | Temporary Class 2 Aggregate Base                                                                                                        | -        | CY    | \$ 100.00    | \$ -         |                                   |
| 10                | 10.00.00 | Bridges                                                                                                                                 |          |       |              | \$ 391,667   |                                   |
|                   | 10.01.00 | Sites Lodoga Road Realignment - New Bridge - CIP PS Concrete Box Girder                                                                 | -        | SF    | \$ 750.00    | \$ -         |                                   |
|                   | 10.02.00 | Road 69 - Replacement (Culver/Bridge)- PC/PS Concrete Slab Girder                                                                       | -        | SF    | \$ 416.67    | \$ -         |                                   |
|                   | 10.03.00 | Road 69 - Replacement Bridge - PC/PS Concrete Box Girder                                                                                | -        | SF    | \$ 583.33    | \$ -         |                                   |
|                   | 10.04.00 | Road 69 - Bridge Widening                                                                                                               | -        | SF    | \$ 50.00     | \$ -         |                                   |
|                   | 10.05.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | -        | SF    | \$ 583.33    | \$ -         |                                   |
|                   | 10.06.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | -        | SF    | \$ 583.33    | \$ -         |                                   |
|                   | 10.07.00 | Funks Construction Access Road - New Bridge - PC/PS Concrete Box Girder                                                                 | -        | SF    | \$ 500.00    | \$ -         |                                   |
|                   | 10.08.00 | Dam Spillway - New Bridge - PC/PS Concrete Slab Girder                                                                                  | 940      | SF    | \$ 416.67    | \$ 391,667   |                                   |
| 15                | 15.00.00 | ALLOWANCE FOR UNLISTED ITEMS                                                                                                            |          |       |              | \$ 369,614   |                                   |
|                   | 15.01.00 | Allowance for Unlisted Items                                                                                                            | 5.0%     | %     | \$ 7,392,287 | \$ 369,614   |                                   |
| Total Direct Cost |          |                                                                                                                                         | 5.31     | Miles | \$ 1,462,315 | \$ 7,761,902 |                                   |

Sites Reservoir: 27.3E - Funks PGP Road  
30% Cost Estimate  
Sites, CA

Cost Estimate  
AACEI Class 3  
February 28, 2025

**TOTAL ESTIMATE SUMMARY**

|                                                    |           |      |           |
|----------------------------------------------------|-----------|------|-----------|
| Total Direct Cost                                  |           |      | 1,307,916 |
| TOTAL DIRECT COST BEFORE CONTRACTOR INDIRECT COSTS |           |      | 1,307,916 |
| Mobilization                                       | 3.0%      |      | 39,237    |
| Field Overhead Costs (GC&GR)                       | 12.5%     |      | 168,394   |
| Insurance                                          | 2.0%      |      | 30,311    |
| Bonds                                              | 0.6%      |      | 9,275     |
| Total Contractor Indirect Costs                    |           |      | 247,217   |
| TOTAL CONTACTOR COSTS                              |           |      | 1,555,133 |
| Home Office Overhead (G&A)                         | 5.5%      |      | 85,532    |
| GC Profit                                          | 8.0%      |      | 131,253   |
| Total Contractor Overhead and Profit               |           |      | 216,785   |
| TOTAL CONSTRUCTION COST BEFORE CONTINGENCIES       |           |      | 1,771,918 |
| Contingencies                                      |           |      |           |
| Design Contingencies                               | 12.7%     |      | 225,034   |
| Construction Contingencies                         | 15.0%     |      | 299,543   |
| Total Contingency Allowance                        |           |      | 524,577   |
| TOTAL COST BEFORE ESCALATION                       |           |      | 2,296,495 |
| Escalation to Mid-point of Construction            | By Others | 0%   | -         |
| RECOMMENDED CONSTRUCTION BUDGET                    |           |      | 2,296,495 |
| Non-Contract Costs                                 | By Others | 0.0% | -         |
| TOTAL ESTIMATE                                     |           |      | 2,296,495 |

Sites Reservoir: 27.3E - Funks PGP Road  
30% Cost Estimate  
Sites, CA

Cost Estimate  
AAE Class 3  
May 22, 2024

DIRECT COST LEVEL 2 SUMMARY

| Item | Sub Item | Description                                                                                                                             | UoM   | Qty    | Unit Rate | Total     |
|------|----------|-----------------------------------------------------------------------------------------------------------------------------------------|-------|--------|-----------|-----------|
|      |          | Total Road Length                                                                                                                       | Miles | 0.7    |           | 1,792,782 |
|      |          | Total Road Length                                                                                                                       | LF    | 3,852  |           | 340       |
|      |          | Average Width                                                                                                                           | Feet  | 15     |           |           |
|      |          | Area                                                                                                                                    | SF    | 57,780 |           | 23        |
| 01   | 01.00.00 | Preconstruction Activities                                                                                                              |       |        |           | 59,260    |
|      | 01.01.00 | Clearing And Grubbing                                                                                                                   | ACRE  | 5      | 8,000.00  | 40,000    |
|      | 01.02.00 | Temporary Silt Fence                                                                                                                    | LF    | 9,630  | 2.00      | 19,260    |
| 02   | 02.00.00 | Roadway Excavation                                                                                                                      | CY    | 18,420 | 12.91     | 237,715   |
|      | 02.01.00 | Roadway Excavation - Load, Haul, Compact - Top Loading                                                                                  | CY    | 1,970  | 17.02     | 33,528    |
|      | 02.02.00 | Roadway Excavation - Load, Haul, Compact - Excess - Top Loading                                                                         | CY    | 14,610 | 11.47     | 167,639   |
|      | 02.03.00 | Roadway Excavation - Load, Haul, Waste - Organics - Scraper                                                                             | CY    | 1,840  | 10.39     | 19,116    |
|      | 02.04.00 | Roadway Excavation - Rock Cut - Drill and Shoot                                                                                         | CY    | 1,660  | 10.50     | 17,432    |
|      | 02.05.00 | Roadway Fill from Borrow - Load, Haul, Compact                                                                                          | CY    | -      |           | -         |
|      | 02.06.00 | Roadway Excavation (Causeway Removal of Alluvium Materials)                                                                             | CY    | -      |           | -         |
|      | 02.07.00 | Roadway Fill (Replacement of Alluvium with 10% Swell Factor)                                                                            | CY    | -      |           | -         |
| 03   | 03.00.00 | Causeway Protection                                                                                                                     |       |        |           | -         |
|      | 03.01.00 | RSP Fabric (Type A)                                                                                                                     | SY    | -      |           | -         |
|      | 03.02.00 | RSP Bedding No. 1 (Method B) - Zone 7A                                                                                                  | CY    | -      |           | -         |
|      | 03.03.00 | Rock Slope Protection (1/4 T, Method B) - Zone 7B                                                                                       | CY    | -      |           | -         |
| 04   | 04.00.00 | Pavement Structural Section                                                                                                             |       |        |           | 838,689   |
|      | 04.01.00 | Hot Mix Asphalt (Type A)                                                                                                                | TON   | 2,080  | 111.19    | 231,272   |
|      | 04.02.00 | Jointed Plain Concrete Pavement (A.K.A. PCC Pavement)                                                                                   | CY    | -      |           | -         |
|      | 04.03.00 | Seal Pavement Joint                                                                                                                     | LF    | -      |           | -         |
|      | 04.04.00 | Seal Longitudinal Isolation Joint                                                                                                       | LF    | -      |           | -         |
|      | 04.05.00 | Class 2 Aggregate Base                                                                                                                  | CY    | 4,100  | 87.77     | 359,860   |
|      | 04.06.00 | Shoulder Backing (Class 2 AB Material Daylight To Side Slope)                                                                           | TON   | 4,880  | 50.00     | 244,000   |
|      | 04.07.00 | Cold Plane Asphalt Concrete Pavement                                                                                                    | SY    | -      |           | -         |
|      | 04.08.00 | Tack Coat                                                                                                                               | TON   | 1      | 2,964.16  | 3,557     |
|      | 04.09.00 | Full Depth Reclamation-Cement                                                                                                           | SY    | -      |           | -         |
|      | 04.15.00 | Remove Base And Surfacing                                                                                                               | CY    | -      |           | -         |
|      | 04.16.00 | Obliterate Surfacing                                                                                                                    | SY    | -      |           | -         |
| 05   | 05.00.00 | Drainage                                                                                                                                |       |        |           | 83,225    |
|      | 05.01.00 | Remove Culvert                                                                                                                          | EA    | 5      | 1,950.00  | 9,750     |
|      | 05.02.00 | Abandon Culvert                                                                                                                         | EA    | 3      | 1,500.00  | 4,500     |
|      | 05.03.00 | 24" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                                                                               | LF    | 250    | 269.60    | 67,400    |
|      | 05.04.00 | 54" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                                                                               | LF    | -      |           | -         |
|      | 05.05.00 | Structural Concrete, Box Culvert (Single Cell)                                                                                          | CY    | -      |           | -         |
|      | 05.06.00 | Bar Reinforcing Steel (Box Culvert)                                                                                                     | LB    | -      |           | -         |
|      | 05.07.00 | Rock Pad Energy Dissipator (18" D X 5' W X 6' L)                                                                                        | CY    | 9      | 175.00    | 1,575     |
| 06   | 06.00.00 | Specialty Items                                                                                                                         |       |        |           | -         |
|      | 06.01.00 | Treated Wood Waste                                                                                                                      | LB    | -      |           | -         |
|      | 06.02.00 | Remove Metal Beam Guard Railing                                                                                                         | LF    | -      |           | -         |
|      | 06.03.00 | Midwest Guardrail System (Wood Post) (Includes Transition Railing, Alternative Flared/In-Line Terminal System, And End Anchor Assembly) | LF    | -      |           | -         |
| 07   | 07.00.00 | Retaining Walls                                                                                                                         |       |        |           | -         |
|      | 07.05.00 | Retaining Wall - MSE Wall                                                                                                               | SF    | -      |           | -         |
|      | 07.06.00 | Retaining Wall - Tie-Back Wall                                                                                                          | SF    | -      |           | -         |
| 08   | 08.00.00 | Traffic Items                                                                                                                           |       |        |           | 26,745    |
|      | 08.01.00 | Roadside Sign - One Post                                                                                                                | LF    | 3      | 3,500.00  | 10,500    |
|      | 08.02.00 | Two-Component Paint Traffic Stripe (6" Yellow), (Includes 2 Yellow Stripes And One Black)                                               | EA    | 3,860  | 1.97      | 7,596     |
|      | 08.03.00 | Two-Component Paint Traffic Stripe (6" White)                                                                                           | EA    | 7,360  | 0.66      | 4,828     |
|      | 08.04.00 | Two-Component Paint Pavement Marking                                                                                                    | SQFT  | 270    | 14.15     | 3,821     |
|      | 08.05.00 | Construction Area Signs                                                                                                                 | LS    | -      |           | -         |
|      | 08.06.00 | Portable Changeable Message Sign                                                                                                        | LS    | -      |           | -         |
|      | 08.07.00 | Traffic Control System                                                                                                                  | LS    | -      |           | -         |
| 09   | 09.00.00 | Detours - Install and Remove                                                                                                            |       |        |           | -         |
|      | 09.01.00 | Temporary Hot Mix Asphalt (Type A)                                                                                                      | CY    | -      |           | -         |
|      | 09.02.00 | Temporary Class 2 Aggregate Base                                                                                                        | CY    | -      |           | -         |
| 10   | 10.00.00 | Bridges                                                                                                                                 |       |        |           | -         |
|      | 10.01.00 | Sites Lodoga Road Realignment - New Bridge - CIP PS Concrete Box Girder                                                                 | SF    | -      |           | -         |
|      | 10.02.00 | Road 69 - Replacement (Culver/Bridge)- PC/PS Concrete Slab Girder                                                                       | SF    | -      |           | -         |
|      | 10.03.00 | Road 69 - Replacement Bridge - PC/PS Concrete Box Girder                                                                                | SF    | -      |           | -         |
|      | 10.04.00 | Road 69 - Bridge Widening                                                                                                               | SF    | -      |           | -         |
|      | 10.05.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | SF    | -      |           | -         |
|      | 10.06.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | SF    | -      |           | -         |
|      | 10.07.00 | Funks Construction Access Road - New Bridge - PC/PS Concrete Box Girder                                                                 | SF    | -      |           | -         |
|      | 10.08.00 | Dam Spillway - New Bridge - PC/PS Concrete Slab Girder                                                                                  | SF    | -      |           | -         |
| 15   | 15.00.00 | ALLOWANCE FOR UNLISTED ITEMS                                                                                                            |       |        |           | 62,282    |
|      | 15.01.00 | Allowance for Unlisted Items                                                                                                            | %     | 5.0%   |           | 62,282    |
|      |          | Total Direct Cost                                                                                                                       | -     |        |           | 1,307,916 |

TOTAL ESTIMATE SUMMARY

| Item | Sub Item | Description                                                                       | Quantity | Unit  | Unit Rate   | Total      | Comment                                                  |
|------|----------|-----------------------------------------------------------------------------------|----------|-------|-------------|------------|----------------------------------------------------------|
|      |          | Total Road Length                                                                 | 0.7      | Miles |             |            |                                                          |
|      |          | Total Road Length                                                                 | 3,852    | LF    |             |            |                                                          |
|      |          | Average Width                                                                     | 15       | Feet  |             |            |                                                          |
|      |          | Area                                                                              | 57,780   | SF    |             |            |                                                          |
| 01   | 01.00.00 | Preconstruction Activities                                                        |          |       | \$ -        | \$ 59,260  |                                                          |
|      | 01.01.00 | Clearing And Grubbing                                                             | 5        | ACRE  | \$ 8,000.00 | \$ 40,000  |                                                          |
|      | 01.02.00 | Temporary Silt Fence                                                              | 9,630    | LF    | \$ 2.00     | \$ 19,260  | Allowance by Estimating                                  |
| 02   | 02.00.00 | Roadway Excavation                                                                |          |       |             | \$ 237,715 |                                                          |
|      | 02.01.00 | Roadway Excavation - Load, Haul, Compact - Top Loading - 0.175 Mile Haul          | 1,970    | CY    | 17.02       | 33,528     | Includes Rock Excavation Load, Haul, Compact             |
|      | 02.02.00 | Roadway Excavation - Load, Haul, Compact - Excess - Top Loading - 0.175 Mile Haul | 14,610   | CY    | 11.47       | 167,639    | Includes Rock Excavation Load, Haul, Compact             |
|      | 02.03.00 | Roadway Excavation - Load, Haul, Waste - Organics - Scraper - 0.25 Mile Haul      | 1,840    | CY    | 10.39       | 19,116     |                                                          |
|      | 02.04.00 | Roadway Excavation - Rock Cut - Drill and Shoot                                   | 1,660    | CY    | 10.50       | 17,432     |                                                          |
|      | 02.04.10 | Drill Rock & Shoot                                                                | 1,660    | CY    | 10.50       | 17,432     | Drill and Shoot Only                                     |
|      | 02.04.20 | Load, Haul, Stockpile                                                             | -        | CY    | -           | -          | Load, haul, compact included above 02.01.00 and 02.02.00 |
|      | 02.05.00 | Roadway Fill from Borrow - Load, Haul, Compact                                    | -        | CY    | -           | -          |                                                          |
|      | 02.05.10 | Load, Haul, and Compact - Scraper - 0.5 Mile Haul                                 | -        | CY    | -           | -          |                                                          |
|      | 02.05.20 | Load, Haul, and Compact - Top Loading - 0.5 Mile Haul                             | -        | CY    | -           | -          |                                                          |
|      | 02.06.00 | Roadway Excavation (Causeway Removal of Alluvium Materials)                       | -        | CY    | -           | -          |                                                          |
|      | 02.07.00 | Roadway Fill (Replacement of Alluvium with 10% Swell Factor)                      | -        | CY    | -           | -          |                                                          |
| 03   | 03.00.00 | Causeway Protection                                                               |          |       |             | \$ -       |                                                          |
|      | 03.01.00 | RSP Fabric (Type A)                                                               | -        | SY    | \$ -        | \$ -       |                                                          |
|      | 03.02.00 | RSP Bedding No. 1 (Method B) - Zone 7A                                            | -        | CY    | \$ -        | \$ -       |                                                          |
|      | 03.02.01 | Blasting operations                                                               | -        | CY    | \$ 6.00     | \$ -       |                                                          |
|      | 03.02.02 | Excavate to Processing                                                            | -        | CY    | \$ 3.00     | \$ -       |                                                          |
|      | 03.02.03 | Process                                                                           | -        | CY    | \$ 30.00    | \$ -       |                                                          |
|      | 03.02.04 | Load, Haul, Place Bedding                                                         | -        | CY    | \$ -        | \$ -       |                                                          |
|      | 03.03.00 | Rock Slope Protection (1/4 T, Method B) - Zone 7B                                 | -        | CY    | \$ -        | \$ -       |                                                          |
|      | 03.03.01 | Blasting operations                                                               | -        | CY    | \$ 6.00     | \$ -       |                                                          |
|      | 03.03.02 | Excavate to Processing                                                            | -        | CY    | \$ 3.00     | \$ -       |                                                          |
|      | 03.03.03 | Process Riprap                                                                    | -        | CY    | \$ 32.00    | \$ -       |                                                          |
|      | 03.03.04 | Load, Haul, Place Rip Rap                                                         | -        | CY    | \$ -        | \$ -       |                                                          |
| 04   | 04.00.00 | Pavement Structural Section                                                       |          | CY    |             | \$ 838,689 |                                                          |
|      | 04.01.00 | Hot Mix Asphalt (Type A)                                                          | 2,080    | TON   | \$ 111.19   | \$ 231,272 |                                                          |
|      | 04.02.00 | Jointed Plain Concrete Pavement (A.K.A. PCC Pavement)                             | -        | CY    | \$ -        | \$ -       |                                                          |
|      | 04.03.00 | Seal Pavement Joint                                                               | -        | LF    | \$ 2.00     | \$ -       |                                                          |
|      | 04.04.00 | Seal Longitudinal Isolation Joint                                                 | -        | LF    | \$ 2.00     | \$ -       |                                                          |
|      | 04.05.00 | Class 2 Aggregate Base                                                            | 4,100    | CY    | \$ 87.77    | \$ 359,860 | Haul 75 Miles, Direct Placement                          |
|      | 04.06.00 | Shoulder Backing (Class 2 AB Material Daylight To Side Slope)                     | 4,880    | TON   | \$ 50.00    | \$ 244,000 |                                                          |
|      | 04.07.00 | Cold Plane Asphalt Concrete Pavement                                              | -        | SY    | \$ 3.00     | \$ -       |                                                          |
|      | 04.08.00 | Tack Coat                                                                         | 1        | TON   | \$ 2,964.16 | \$ 3,557   |                                                          |
|      | 04.09.00 | Full Depth Reclamation-Cement                                                     | -        | SY    | \$ -        | \$ -       | Mixing, Compacting                                       |
|      | 04.10.00 | Cement (Full Depth Reclamation-Cement)                                            | -        | TON   |             |            | Included Above                                           |
|      | 04.11.00 | Supplementary Aggregate (Full Depth Recycling-Cement)                             | -        | TON   |             |            | Included Above                                           |
|      | 04.12.00 | Asphaltic Emulsion (Full Depth Recycling-Cement)                                  | -        | TON   |             |            | Included Above                                           |
|      | 04.13.00 | Sand Cover (Full-Depth Reclamation-Cement)                                        | -        | TON   |             |            | Included Above                                           |
|      | 04.14.00 | Mix Design (Full Depth Recycling-Cement)                                          | -        | LS    |             |            | Included Above                                           |
|      | 04.15.00 | Remove Base And Surfacing                                                         | -        | CY    | \$ 15.00    | \$ -       |                                                          |
|      | 04.16.00 | Obliterate Surfacing                                                              | -        | SY    | \$ 8.00     | \$ -       |                                                          |
| 05   | 05.00.00 | Drainage                                                                          |          |       |             | \$ 83,225  |                                                          |
|      | 05.01.00 | Remove Culvert                                                                    | 5        | EA    | \$ 1,950.00 | \$ 9,750   | Assume 30' Each                                          |
|      | 05.02.00 | Abandon Culvert                                                                   | 3        | EA    | \$ 1,500.00 | \$ 4,500   | Assume 30' Each                                          |
|      | 05.03.00 | 24" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                         | 250      | LF    | \$ 269.60   | \$ 67,400  |                                                          |
|      | 05.04.00 | 54" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                         | -        | LF    | \$ 770.40   | \$ -       |                                                          |
|      | 05.05.00 | Structural Concrete, Box Culvert (Single Cell)                                    | -        | CY    | \$ 2,000.00 | \$ -       |                                                          |
|      | 05.06.00 | Bar Reinforcing Steel (Box Culvert)                                               | -        | LB    | \$ 1.39     | \$ -       |                                                          |

TOTAL ESTIMATE SUMMARY

| Item              | Sub Item | Description                                                                                                                             | Quantity | Unit  | Unit Rate    | Total        | Comment                           |
|-------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------|----------|-------|--------------|--------------|-----------------------------------|
|                   | 05.07.00 | Rock Pad Energy Dissipator (18" D X 5' W X 6' L)                                                                                        | 9        | CY    | \$ 175.00    | \$ 1,575     |                                   |
| 06                | 06.00.00 | Specialty Items                                                                                                                         |          |       |              | \$ -         |                                   |
|                   | 06.01.00 | Treated Wood Waste                                                                                                                      | -        | LB    | \$ 0.50      | \$ -         |                                   |
|                   | 06.02.00 | Remove Metal Beam Guard Railing                                                                                                         | -        | LF    | \$ 5.00      | \$ -         |                                   |
|                   | 06.03.00 | Midwest Guardrail System (Wood Post) (Includes Transition Railing, Alternative Flared/In-Line Terminal System, And End Anchor Assembly) | -        | LF    | \$ 28.80     | \$ -         |                                   |
| 07                | 07.00.00 | Retaining Walls                                                                                                                         |          |       |              | \$ -         |                                   |
|                   | 07.05.00 | Retaining Wall - MSE Wall                                                                                                               | -        | SF    | \$ 134.62    | \$ -         | Allowance                         |
|                   | 07.06.00 | Retaining Wall - Tie-Back Wall                                                                                                          | -        | SF    | \$ 115.38    | \$ -         | Allowance                         |
| 08                | 08.00.00 | Traffic Items                                                                                                                           |          |       |              | \$ 26,745    |                                   |
|                   | 08.01.00 | Roadside Sign - One Post                                                                                                                | 3        | LF    | \$ 3,500.00  | \$ 10,500    |                                   |
|                   | 08.02.00 | Two-Component Paint Traffic Stripe (6" Yellow), (Includes 2 Yellow Stripes And One                                                      | 3,860    | EA    | \$ 1.97      | \$ 7,596     |                                   |
|                   | 08.03.00 | Two-Component Paint Traffic Stripe (6" White)                                                                                           | 7,360    | EA    | \$ 0.66      | \$ 4,828     |                                   |
|                   | 08.04.00 | Two-Component Paint Pavement Marking                                                                                                    | 270      | SQFT  | \$ 14.15     | \$ 3,821     |                                   |
|                   | 08.05.00 | Construction Area Signs                                                                                                                 | -        | LS    | \$ 4,193.44  | \$ -         | Allow 0.5% of Structural Section  |
|                   | 08.06.00 | Portable Changeable Message Sign                                                                                                        | -        | LS    | \$ 2,096.72  | \$ -         | Allow 0.25% of Structural Section |
|                   | 08.07.00 | Traffic Control System                                                                                                                  | -        | LS    | \$ 2,096.72  | \$ -         | Allow 0.25% of Structural Section |
| 09                | 09.00.00 | Detours - Install and Remove                                                                                                            |          |       |              | \$ -         |                                   |
|                   | 09.01.00 | Temporary Hot Mix Asphalt (Type A)                                                                                                      | -        | CY    | \$ 129.60    | \$ -         |                                   |
|                   | 09.02.00 | Temporary Class 2 Aggregate Base                                                                                                        | -        | CY    | \$ 100.00    | \$ -         |                                   |
| 10                | 10.00.00 | Bridges                                                                                                                                 |          |       |              | \$ -         |                                   |
|                   | 10.01.00 | Sites Lodoga Road Realignment - New Bridge - CIP PS Concrete Box Girder                                                                 | -        | SF    | \$ 750.00    | \$ -         |                                   |
|                   | 10.02.00 | Road 69 - Replacement (Culver/Bridge)- PC/PS Concrete Slab Girder                                                                       | -        | SF    | \$ 416.67    | \$ -         |                                   |
|                   | 10.03.00 | Road 69 - Replacement Bridge - PC/PS Concrete Box Girder                                                                                | -        | SF    | \$ 583.33    | \$ -         |                                   |
|                   | 10.04.00 | Road 69 - Bridge Widening                                                                                                               | -        | SF    | \$ 50.00     | \$ -         |                                   |
|                   | 10.05.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | -        | SF    | \$ 583.33    | \$ -         |                                   |
|                   | 10.06.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | -        | SF    | \$ 583.33    | \$ -         |                                   |
|                   | 10.07.00 | Funks Construction Access Road - New Bridge - PC/PS Concrete Box Girder                                                                 | -        | SF    | \$ 500.00    | \$ -         |                                   |
|                   | 10.08.00 | Dam Spillway - New Bridge - PC/PS Concrete Slab Girder                                                                                  | -        | SF    | \$ 416.67    | \$ -         |                                   |
| 15                | 15.00.00 | ALLOWANCE FOR UNLISTED ITEMS                                                                                                            |          |       |              | \$ 62,282    |                                   |
|                   | 15.01.00 | Allowance for Unlisted Items                                                                                                            | 5.0%     | %     | \$ 1,245,634 | \$ 62,282    |                                   |
| Total Direct Cost |          |                                                                                                                                         | 0.73     | Miles | \$ 1,792,782 | \$ 1,307,916 |                                   |

Sites Reservoir: 27.4 - Construction Roads - Agg Route, Quarry 2, and Hook Ramp  
 30% Cost Estimate  
 Sites, CA

Cost Estimate  
 AACEI Class 3  
 February 28, 2025

# **TOTAL ESTIMATE SUMMARY**

|                   |            |
|-------------------|------------|
| Total Direct Cost | 20,754,820 |
|-------------------|------------|

|                                                    |            |
|----------------------------------------------------|------------|
| TOTAL DIRECT COST BEFORE CONTRACTOR INDIRECT COSTS | 20,754,820 |
|----------------------------------------------------|------------|

|                              |       |           |
|------------------------------|-------|-----------|
| Mobilization                 | 3.0%  | 622,645   |
| Field Overhead Costs (GC&GR) | 12.5% | 2,672,183 |
| Insurance                    | 2.0%  | 480,993   |
| Bonds                        | 0.6%  | 147,184   |

|                                 |           |
|---------------------------------|-----------|
| Total Contractor Indirect Costs | 3,923,005 |
|---------------------------------|-----------|

|                       |            |
|-----------------------|------------|
| TOTAL CONTACTOR COSTS | 24,677,825 |
|-----------------------|------------|

|                            |      |           |
|----------------------------|------|-----------|
| Home Office Overhead (G&A) | 5.5% | 1,357,280 |
| GC Profit                  | 8.0% | 2,082,808 |

|                                      |           |
|--------------------------------------|-----------|
| Total Contractor Overhead and Profit | 3,440,088 |
|--------------------------------------|-----------|

|                                              |            |
|----------------------------------------------|------------|
| TOTAL CONSTRUCTION COST BEFORE CONTINGENCIES | 28,117,913 |
|----------------------------------------------|------------|

|                            |       |           |
|----------------------------|-------|-----------|
| Contingencies              |       |           |
| Design Contingencies       | 12.7% | 3,570,975 |
| Construction Contingencies | 15.0% | 4,753,333 |

|                             |           |
|-----------------------------|-----------|
| Total Contingency Allowance | 8,324,308 |
|-----------------------------|-----------|

|                              |            |
|------------------------------|------------|
| TOTAL COST BEFORE ESCALATION | 36,442,221 |
|------------------------------|------------|

|                                         |           |    |   |
|-----------------------------------------|-----------|----|---|
| Escalation to Mid-point of Construction | By Others | 0% | - |
|-----------------------------------------|-----------|----|---|

|                                 |            |
|---------------------------------|------------|
| RECOMMENDED CONSTRUCTION BUDGET | 36,442,221 |
|---------------------------------|------------|

|                    |           |      |   |
|--------------------|-----------|------|---|
| Non-Contract Costs | By Others | 0.0% | - |
|--------------------|-----------|------|---|

|                |            |
|----------------|------------|
| TOTAL ESTIMATE | 36,442,221 |
|----------------|------------|

Sites Reservoir: 27.4 - Construction Roads - Agg Route, Quarry 2, and Hook Ramp  
30% Cost Estimate  
Sites, CA

Cost Estimate  
AAE Class 3  
May 22, 2024

DIRECT COST LEVEL 2 SUMMARY

| Item | Sub Item | Description                                                                                                                             | UoM   | Qty       | Unit Rate | Total      |
|------|----------|-----------------------------------------------------------------------------------------------------------------------------------------|-------|-----------|-----------|------------|
|      |          | Total Road Length                                                                                                                       | Miles | 3.8       |           | 5,521,234  |
|      |          | Total Road Length                                                                                                                       | LF    | 19,848    |           | 1,046      |
|      |          | Average Width                                                                                                                           | Feet  | 56        |           |            |
|      |          | Area                                                                                                                                    | SF    | 1,119,132 |           | 19         |
| 01   | 01.00.00 | Preconstruction Activities                                                                                                              |       |           |           | 499,240    |
|      | 01.01.00 | Clearing And Grubbing                                                                                                                   | ACRE  | 50        | 8,000.00  | 400,000    |
|      | 01.02.00 | Temporary Silt Fence                                                                                                                    | LF    | 49,620    | 2.00      | 99,240     |
| 02   | 02.00.00 | Roadway Excavation                                                                                                                      | CY    | 241,290   | 10.85     | 2,617,661  |
|      | 02.01.00 | Roadway Excavation - Load, Haul, Compact - Top Loading                                                                                  | CY    | 119,850   | 10.35     | 1,240,531  |
|      | 02.02.00 | Roadway Excavation - Load, Haul, Compact - Excess - Top Loading                                                                         | CY    | 78,040    | 10.31     | 804,669    |
|      | 02.03.00 | Roadway Excavation - Load, Haul, Waste - Organics - Scraper                                                                             | CY    | 21,990    | 6.95      | 152,926    |
|      | 02.04.00 | Roadway Excavation - Rock Cut - Drill and Shoot                                                                                         | CY    | 19,800    | 8.97      | 177,649    |
|      | 02.05.00 | Roadway Fill from Borrow - Load, Haul, Compact                                                                                          | CY    | 21,410    | 11.30     | 241,886    |
|      | 02.06.00 | Roadway Excavation (Causeway Removal of Alluvium Materials)                                                                             | CY    | -         | -         | -          |
|      | 02.07.00 | Roadway Fill (Replacement of Alluvium with 10% Swell Factor)                                                                            | CY    | -         | -         | -          |
| 03   | 03.00.00 | Causeway Protection                                                                                                                     |       |           |           | -          |
|      | 03.01.00 | RSP Fabric (Type A)                                                                                                                     | SY    | -         | -         | -          |
|      | 03.02.00 | RSP Bedding No. 1 (Method B) - Zone 7A                                                                                                  | CY    | -         | -         | -          |
|      | 03.03.00 | Rock Slope Protection (1/4 T, Method B) - Zone 7B                                                                                       | CY    | -         | -         | -          |
| 04   | 04.00.00 | Pavement Structural Section                                                                                                             |       |           |           | 11,671,842 |
|      | 04.01.00 | Hot Mix Asphalt (Type A)                                                                                                                | TON   | -         | -         | -          |
|      | 04.02.00 | Jointed Plain Concrete Pavement (A.K.A. PCC Pavement)                                                                                   | CY    | -         | -         | -          |
|      | 04.03.00 | Seal Pavement Joint                                                                                                                     | LF    | -         | -         | -          |
|      | 04.04.00 | Seal Longitudinal Isolation Joint                                                                                                       | LF    | -         | -         | -          |
|      | 04.05.00 | Class 2 Aggregate Base                                                                                                                  | CY    | 114,190   | 85.87     | 9,805,342  |
|      | 04.06.00 | Shoulder Backing (Class 2 AB Material Daylight To Side Slope)                                                                           | TON   | 37,330    | 50.00     | 1,866,500  |
|      | 04.07.00 | Cold Plane Asphalt Concrete Pavement                                                                                                    | SY    | -         | -         | -          |
|      | 04.08.00 | Tack Coat                                                                                                                               | TON   | -         | -         | -          |
|      | 04.09.00 | Full Depth Reclamation-Cement                                                                                                           | SY    | -         | -         | -          |
|      | 04.15.00 | Remove Base And Surfacing                                                                                                               | CY    | -         | -         | -          |
|      | 04.16.00 | Obliterate Surfacing                                                                                                                    | SY    | -         | -         | -          |
| 05   | 05.00.00 | Drainage                                                                                                                                |       |           |           | 666,706    |
|      | 05.01.00 | Remove Culvert                                                                                                                          | EA    | -         | -         | -          |
|      | 05.02.00 | Abandon Culvert                                                                                                                         | EA    | -         | -         | -          |
|      | 05.03.00 | 24" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                                                                               | LF    | 2,434     | 269.60    | 656,206    |
|      | 05.04.00 | 54" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                                                                               | LF    | -         | -         | -          |
|      | 05.05.00 | Structural Concrete, Box Culvert (Single Cell)                                                                                          | CY    | -         | -         | -          |
|      | 05.06.00 | Bar Reinforcing Steel (Box Culvert)                                                                                                     | LB    | -         | -         | -          |
|      | 05.07.00 | Rock Pad Energy Dissipator (18" D X 5' W X 6' L)                                                                                        | CY    | 60        | 175.00    | 10,500     |
| 06   | 06.00.00 | Specialty Items                                                                                                                         |       |           |           | 91,296     |
|      | 06.01.00 | Treated Wood Waste                                                                                                                      | LB    | -         | -         | -          |
|      | 06.02.00 | Remove Metal Beam Guard Railing                                                                                                         | LF    | -         | -         | -          |
|      | 06.03.00 | Midwest Guardrail System (Wood Post) (Includes Transition Railing, Alternative Flared/In-Line Terminal System, And End Anchor Assembly) | LF    | 3,170     | 28.80     | 91,296     |
| 07   | 07.00.00 | Retaining Walls                                                                                                                         |       |           |           | -          |
|      | 07.05.00 | Retaining Wall - MSE Wall                                                                                                               | SF    | -         | -         | -          |
|      | 07.06.00 | Retaining Wall - Tie-Back Wall                                                                                                          | SF    | -         | -         | -          |
| 08   | 08.00.00 | Traffic Items                                                                                                                           |       |           |           | 38,500     |
|      | 08.01.00 | Roadside Sign - One Post                                                                                                                | LF    | 11        | 3,500.00  | 38,500     |
|      | 08.02.00 | Two-Component Paint Traffic Stripe (6" Yellow), (Includes 2 Yellow Stripes And One Black)                                               | EA    | -         | -         | -          |
|      | 08.03.00 | Two-Component Paint Traffic Stripe (6" White)                                                                                           | EA    | -         | -         | -          |
|      | 08.04.00 | Two-Component Paint Pavement Marking                                                                                                    | SQFT  | -         | -         | -          |
|      | 08.05.00 | Construction Area Signs                                                                                                                 | LS    | -         | -         | -          |
|      | 08.06.00 | Portable Changeable Message Sign                                                                                                        | LS    | -         | -         | -          |
|      | 08.07.00 | Traffic Control System                                                                                                                  | LS    | -         | -         | -          |
| 09   | 09.00.00 | Detours - Install and Remove                                                                                                            |       |           |           | -          |
|      | 09.01.00 | Temporary Hot Mix Asphalt (Type A)                                                                                                      | CY    | -         | -         | -          |
|      | 09.02.00 | Temporary Class 2 Aggregate Base                                                                                                        | CY    | -         | -         | -          |
| 10   | 10.00.00 | Bridges                                                                                                                                 |       |           |           | 4,181,250  |
|      | 10.01.00 | Sites Lodoga Road Realignment - New Bridge - CIP PS Concrete Box Girder                                                                 | SF    | 5,575     | 750.00    | 4,181,250  |
|      | 10.02.00 | Road 69 - Replacement (Culver/Bridge)- PC/PS Concrete Slab Girder                                                                       | SF    | -         | -         | -          |
|      | 10.03.00 | Road 69 - Replacement Bridge - PC/PS Concrete Box Girder                                                                                | SF    | -         | -         | -          |
|      | 10.04.00 | Road 69 - Bridge Widening                                                                                                               | SF    | -         | -         | -          |
|      | 10.05.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | SF    | -         | -         | -          |
|      | 10.06.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | SF    | -         | -         | -          |
|      | 10.07.00 | Funks Construction Access Road - New Bridge - PC/PS Concrete Box Girder                                                                 | SF    | -         | -         | -          |
|      | 10.08.00 | Dam Spillway - New Bridge - PC/PS Concrete Slab Girder                                                                                  | SF    | -         | -         | -          |
| 15   | 15.00.00 | ALLOWANCE FOR UNLISTED ITEMS                                                                                                            |       |           |           | 988,325    |
|      | 15.01.00 | Allowance for Unlisted Items                                                                                                            | %     | 5.0%      |           | 988,325    |
|      |          | Total Direct Cost                                                                                                                       | -     |           |           | 20,754,820 |

TOTAL ESTIMATE SUMMARY

| Item | Sub Item | Description                                                                       | Quantity  | Unit  | Unit Rate   | Total         | Comment                                                  |
|------|----------|-----------------------------------------------------------------------------------|-----------|-------|-------------|---------------|----------------------------------------------------------|
|      |          | Total Road Length                                                                 | 3.8       | Miles |             |               |                                                          |
|      |          | Total Road Length                                                                 | 19,848    | LF    |             |               |                                                          |
|      |          | Average Width                                                                     | 56        | Feet  |             |               |                                                          |
|      |          | Area                                                                              | 1,119,132 | SF    |             |               |                                                          |
| 01   | 01.00.00 | Preconstruction Activities                                                        |           |       | \$ -        | \$ 499,240    |                                                          |
|      | 01.01.00 | Clearing And Grubbing                                                             | 50        | ACRE  | \$ 8,000.00 | \$ 400,000    |                                                          |
|      | 01.02.00 | Temporary Silt Fence                                                              | 49,620    | LF    | \$ 2.00     | \$ 99,240     | Allowance by Estimating                                  |
| 02   | 02.00.00 | Roadway Excavation                                                                |           |       |             | \$ 2,617,661  |                                                          |
|      | 02.01.00 | Roadway Excavation - Load, Haul, Compact - Top Loading - 0.175 Mile Haul          | 119,850   | CY    | 10.35       | 1,240,531     | Includes Rock Excavation Load, Haul, Compact             |
|      | 02.02.00 | Roadway Excavation - Load, Haul, Compact - Excess - Top Loading - 0.175 Mile Haul | 78,040    | CY    | 10.31       | 804,669       | Includes Rock Excavation Load, Haul, Compact             |
|      | 02.03.00 | Roadway Excavation - Load, Haul, Waste - Organics - Scraper - 0.25 Mile Haul      | 21,990    | CY    | 6.95        | 152,926       |                                                          |
|      | 02.04.00 | Roadway Excavation - Rock Cut - Drill and Shoot                                   | 19,800    | CY    | 8.97        | 177,649       |                                                          |
|      | 02.04.10 | Drill Rock & Shoot                                                                | 19,800    | CY    | 8.97        | 177,649       | Drill and Shoot Only                                     |
|      | 02.04.20 | Load, Haul, Stockpile                                                             | -         | CY    | -           | -             | Load, haul, compact included above 02.01.00 and 02.02.00 |
|      | 02.05.00 | Roadway Fill from Borrow - Load, Haul, Compact                                    | 21,410    | CY    | 11.30       | 241,886       |                                                          |
|      | 02.05.10 | Load, Haul, and Compact - Scraper - 0.5 Mile Haul                                 | 10,705    | CY    | 9.51        | 101,854       |                                                          |
|      | 02.05.20 | Load, Haul, and Compact - Top Loading - 0.5 Mile Haul                             | 10,705    | CY    | 13.08       | 140,032       |                                                          |
|      | 02.06.00 | Roadway Excavation (Causeway Removal of Alluvium Materials)                       | -         | CY    | -           | -             |                                                          |
|      | 02.07.00 | Roadway Fill (Replacement of Alluvium with 10% Swell Factor)                      | -         | CY    | -           | -             |                                                          |
| 03   | 03.00.00 | Causeway Protection                                                               |           |       |             | \$ -          |                                                          |
|      | 03.01.00 | RSP Fabric (Type A)                                                               | -         | SY    | \$ -        | \$ -          |                                                          |
|      | 03.02.00 | RSP Bedding No. 1 (Method B) - Zone 7A                                            | -         | CY    | \$ -        | \$ -          |                                                          |
|      | 03.02.01 | Blasting operations                                                               | -         | CY    | \$ 6.00     | \$ -          |                                                          |
|      | 03.02.02 | Excavate to Processing                                                            | -         | CY    | \$ 3.00     | \$ -          |                                                          |
|      | 03.02.03 | Process                                                                           | -         | CY    | \$ 30.00    | \$ -          |                                                          |
|      | 03.02.04 | Load, Haul, Place Bedding                                                         | -         | CY    | \$ -        | \$ -          |                                                          |
|      | 03.03.00 | Rock Slope Protection (1/4 T, Method B) - Zone 7B                                 | -         | CY    | \$ -        | \$ -          |                                                          |
|      | 03.03.01 | Blasting operations                                                               | -         | CY    | \$ 6.00     | \$ -          |                                                          |
|      | 03.03.02 | Excavate to Processing                                                            | -         | CY    | \$ 3.00     | \$ -          |                                                          |
|      | 03.03.03 | Process Riprap                                                                    | -         | CY    | \$ 32.00    | \$ -          |                                                          |
|      | 03.03.04 | Load, Haul, Place Rip Rap                                                         | -         | CY    | \$ -        | \$ -          |                                                          |
| 04   | 04.00.00 | Pavement Structural Section                                                       |           | CY    |             | \$ 11,671,842 |                                                          |
|      | 04.01.00 | Hot Mix Asphalt (Type A)                                                          | -         | TON   | \$ -        | \$ -          |                                                          |
|      | 04.02.00 | Jointed Plain Concrete Pavement (A.K.A. PCC Pavement)                             | -         | CY    | \$ -        | \$ -          |                                                          |
|      | 04.03.00 | Seal Pavement Joint                                                               | -         | LF    | \$ 2.00     | \$ -          |                                                          |
|      | 04.04.00 | Seal Longitudinal Isolation Joint                                                 | -         | LF    | \$ 2.00     | \$ -          |                                                          |
|      | 04.05.00 | Class 2 Aggregate Base                                                            | 114,190   | CY    | \$ 85.87    | \$ 9,805,342  | Haul 75 Miles, Direct Placement                          |
|      | 04.06.00 | Shoulder Backing (Class 2 AB Material Daylight To Side Slope)                     | 37,330    | TON   | \$ 50.00    | \$ 1,866,500  |                                                          |
|      | 04.07.00 | Cold Plane Asphalt Concrete Pavement                                              | -         | SY    | \$ 3.00     | \$ -          |                                                          |
|      | 04.08.00 | Tack Coat                                                                         | -         | TON   | \$ -        | \$ -          |                                                          |
|      | 04.09.00 | Full Depth Reclamation-Cement                                                     | -         | SY    | \$ -        | \$ -          | Mixing, Compacting                                       |
|      | 04.10.00 | Cement (Full Depth Reclamation-Cement)                                            | -         | TON   |             |               | Included Above                                           |
|      | 04.11.00 | Supplementary Aggregate (Full Depth Recycling-Cement)                             | -         | TON   |             |               | Included Above                                           |
|      | 04.12.00 | Asphaltic Emulsion (Full Depth Recycling-Cement)                                  | -         | TON   |             |               | Included Above                                           |
|      | 04.13.00 | Sand Cover (Full-Depth Reclamation-Cement)                                        | -         | TON   |             |               | Included Above                                           |
|      | 04.14.00 | Mix Design (Full Depth Recycling-Cement)                                          | -         | LS    |             |               | Included Above                                           |
|      | 04.15.00 | Remove Base And Surfacing                                                         | -         | CY    | \$ 15.00    | \$ -          |                                                          |
|      | 04.16.00 | Obliterate Surfacing                                                              | -         | SY    | \$ 8.00     | \$ -          |                                                          |
| 05   | 05.00.00 | Drainage                                                                          |           |       |             | \$ 666,706    |                                                          |
|      | 05.01.00 | Remove Culvert                                                                    | -         | EA    | \$ 1,950.00 | \$ -          | Assume 30' Each                                          |
|      | 05.02.00 | Abandon Culvert                                                                   | -         | EA    | \$ 1,500.00 | \$ -          | Assume 30' Each                                          |
|      | 05.03.00 | 24" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                         | 2,434     | LF    | \$ 269.60   | \$ 656,206    |                                                          |
|      | 05.04.00 | 54" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                         | -         | LF    | \$ 770.40   | \$ -          |                                                          |
|      | 05.05.00 | Structural Concrete, Box Culvert (Single Cell)                                    | -         | CY    | \$ 2,000.00 | \$ -          |                                                          |
|      | 05.06.00 | Bar Reinforcing Steel (Box Culvert)                                               | -         | LB    | \$ 1.39     | \$ -          |                                                          |

TOTAL ESTIMATE SUMMARY

| Item              | Sub Item | Description                                                                                                                             | Quantity | Unit  | Unit Rate     | Total         | Comment                           |
|-------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------|----------|-------|---------------|---------------|-----------------------------------|
|                   | 05.07.00 | Rock Pad Energy Dissipator (18" D X 5' W X 6' L)                                                                                        | 60       | CY    | \$ 175.00     | \$ 10,500     |                                   |
| 06                | 06.00.00 | Specialty Items                                                                                                                         |          |       |               | \$ 91,296     |                                   |
|                   | 06.01.00 | Treated Wood Waste                                                                                                                      | -        | LB    | \$ 0.50       | \$ -          |                                   |
|                   | 06.02.00 | Remove Metal Beam Guard Railing                                                                                                         | -        | LF    | \$ 5.00       | \$ -          |                                   |
|                   | 06.03.00 | Midwest Guardrail System (Wood Post) (Includes Transition Railing, Alternative Flared/In-Line Terminal System, And End Anchor Assembly) | 3,170    | LF    | \$ 28.80      | \$ 91,296     |                                   |
| 07                | 07.00.00 | Retaining Walls                                                                                                                         |          |       |               | \$ -          |                                   |
|                   | 07.05.00 | Retaining Wall - MSE Wall                                                                                                               | -        | SF    | \$ 134.62     | \$ -          | Allowance                         |
|                   | 07.06.00 | Retaining Wall - Tie-Back Wall                                                                                                          | -        | SF    | \$ 115.38     | \$ -          | Allowance                         |
| 08                | 08.00.00 | Traffic Items                                                                                                                           |          |       |               | \$ 38,500     |                                   |
|                   | 08.01.00 | Roadside Sign - One Post                                                                                                                | 11       | LF    | \$ 3,500.00   | \$ 38,500     |                                   |
|                   | 08.02.00 | Two-Component Paint Traffic Stripe (6" Yellow), (Includes 2 Yellow Stripes And One                                                      | -        | EA    | \$ 1.97       | \$ -          |                                   |
|                   | 08.03.00 | Two-Component Paint Traffic Stripe (6" White)                                                                                           | -        | EA    | \$ 0.66       | \$ -          |                                   |
|                   | 08.04.00 | Two-Component Paint Pavement Marking                                                                                                    | -        | SQFT  | \$ 14.15      | \$ -          |                                   |
|                   | 08.05.00 | Construction Area Signs                                                                                                                 | -        | LS    | \$ 58,359.21  | \$ -          | Allow 0.5% of Structural Section  |
|                   | 08.06.00 | Portable Changeable Message Sign                                                                                                        | -        | LS    | \$ 29,179.60  | \$ -          | Allow 0.25% of Structural Section |
|                   | 08.07.00 | Traffic Control System                                                                                                                  | -        | LS    | \$ 29,179.60  | \$ -          | Allow 0.25% of Structural Section |
| 09                | 09.00.00 | Detours - Install and Remove                                                                                                            |          |       |               | \$ -          |                                   |
|                   | 09.01.00 | Temporary Hot Mix Asphalt (Type A)                                                                                                      | -        | CY    | \$ 129.60     | \$ -          |                                   |
|                   | 09.02.00 | Temporary Class 2 Aggregate Base                                                                                                        | -        | CY    | \$ 100.00     | \$ -          |                                   |
| 10                | 10.00.00 | Bridges                                                                                                                                 |          |       |               | \$ 4,181,250  |                                   |
|                   | 10.01.00 | Sites Lodoga Road Realignment - New Bridge - CIP PS Concrete Box Girder                                                                 | 5,575    | SF    | \$ 750.00     | \$ 4,181,250  |                                   |
|                   | 10.02.00 | Road 69 - Replacement (Culver/Bridge)- PC/PS Concrete Slab Girder                                                                       | -        | SF    | \$ 416.67     | \$ -          |                                   |
|                   | 10.03.00 | Road 69 - Replacement Bridge - PC/PS Concrete Box Girder                                                                                | -        | SF    | \$ 583.33     | \$ -          |                                   |
|                   | 10.04.00 | Road 69 - Bridge Widening                                                                                                               | -        | SF    | \$ 50.00      | \$ -          |                                   |
|                   | 10.05.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | -        | SF    | \$ 583.33     | \$ -          |                                   |
|                   | 10.06.00 | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | -        | SF    | \$ 583.33     | \$ -          |                                   |
|                   | 10.07.00 | Funks Construction Access Road - New Bridge - PC/PS Concrete Box Girder                                                                 | -        | SF    | \$ 500.00     | \$ -          |                                   |
|                   | 10.08.00 | Dam Spillway - New Bridge - PC/PS Concrete Slab Girder                                                                                  | -        | SF    | \$ 416.67     | \$ -          |                                   |
| 15                | 15.00.00 | ALLOWANCE FOR UNLISTED ITEMS                                                                                                            |          |       |               | \$ 988,325    |                                   |
|                   | 15.01.00 | Allowance for Unlisted Items                                                                                                            | 5.0%     | %     | \$ 19,766,496 | \$ 988,325    |                                   |
| Total Direct Cost |          |                                                                                                                                         | 3.76     | Miles | \$ 5,521,234  | \$ 20,754,820 |                                   |

## Appendix A-2 30 Percent Direct Construction Cost Estimate (IEC)

| 05/21/2024      | 6:47                                               |                     |                 |              |                   |                  |
|-----------------|----------------------------------------------------|---------------------|-----------------|--------------|-------------------|------------------|
| SITES30-1       | SITES Reservoir 30% OPCC update qtys               |                     |                 |              |                   |                  |
| ***             |                                                    |                     |                 |              |                   |                  |
|                 |                                                    | BID TOTALS          |                 |              |                   |                  |
| <u>Biditem</u>  | <u>Description</u>                                 | <u>Status - Rnd</u> | <u>Quantity</u> | <u>Units</u> | <u>Unit Price</u> | <u>Bid Total</u> |
|                 | GOLDEN GATE DAM                                    |                     | 0.000           |              |                   |                  |
| 22A 01.00.00    | PRECONSTRUCTION ACTIVITIES                         |                     | 1.000           | LS           |                   |                  |
| 22A.01.02.00    | Clearing and Grubbing                              |                     | 53.000          | ACRE         | 10,383.58         | 550,329.74       |
| 22A.01.04.00    | Erosion and Sediment Control                       |                     | 53.000          | ACRE         | 81,691.23         | 4,329,635.19     |
| 22A.01.05.00    | Developing haul routes - Haul routes inside reserv |                     | 43.000          | ACRE         | 15,605.20         | 671,023.60       |
| 22A.01.06.00    | Developing haul routes - Haul routes outside reser |                     | 22.000          | ACRE         | 11,222.79         | 246,901.38       |
| 22A.01.07.00    | Developing Stockpile and Staging Areas             |                     | 10.000          | ACRE         | 17,276.82         | 172,768.20       |
| Preconstruction |                                                    |                     |                 |              |                   | \$5,970,658.11   |
| 21A.02.00.00    | COFFERDAM                                          |                     | 1.000           | LS           |                   |                  |
| 21A.02.01.00    | Cofferdam Excavation                               |                     | 85,000.000      | BCY          | 10.56             | 897,600.00       |
| 21A.02.02.00    | Cofferdam - Zone 6                                 |                     | 10,500.000      | ECY          | 15.05             | 158,025.00       |
| 21A.02.03.00    | Cofferdam - Zone 9                                 |                     | 112,400.000     | ECY          | 20.19             | 2,269,356.00     |
| 21A.02.04.00    | Cofferdam - Cutoff Wall                            |                     | 16,000.000      | SF           | 30.34             | 485,440.00       |
| 21A.02.05.00    | Cofferdam - Dewatering Allowance                   |                     | 1.000           | LS           |                   |                  |
| Cofferdam       |                                                    |                     |                 |              |                   | \$3,810,421.00   |
| 21A.03.00.00    | GOLDEN GATE DIVERSION                              |                     | 1.000           | LS           |                   |                  |
| 21A.03.01.00    | Pipe Excavation                                    |                     | 6,999.000       | CY           | 55.00             | 384,945.00       |
| 21A.03.02.10    | Install 48" Steel Pipe                             |                     | 222.000         | TON          | 14,977.46         | 3,324,996.12     |
| 21A.03.02.20    | Concrete Encase Steel Pipe                         |                     | 3,979.000       | CY           | 479.04            | 1,906,100.16     |
| 21A.03.02.30    | Concrete Encase Rebar                              |                     | 526.000         | TON          | 4,239.14          | 2,229,787.64     |
| 21A.03.02.40    | Concrete Bkfl on Top of Pipe                       |                     | 2,613.000       | CY           | 450.30            | 1,176,633.90     |
| 21A.03.04.10    | Install 36" Steel Pipe D/S Mech                    |                     | 1.800           | TON          | 7,938.23          | 14,288.81        |
| 21A.03.04.20    | Install 36" BV                                     |                     | 1.000           | EA           | 46,880.15         | 46,880.15        |
| 21A.03.04.30    | Install 36" Cone Valve                             |                     | 1.000           | EA           | 95,475.93         | 95,475.93        |
| 21A.03.04.40    | Concrete Bkfl beneath pipe (Dam Core)              |                     | 6,133.000       | CY           | 593.82            | 3,641,898.06     |
| 21A.03.04.50    | Upstream Concrete Intake Structure                 |                     | 5.500           | CY           | 1,479.66          | 8,138.13         |
| 21A.03.04.60    | Upstream Concrete Str Trash Rack                   |                     | 1.800           | TON          | 53,245.83         | 95,842.49        |
| 21A.03.04.70    | Downstream Conc. Slab for Blowoff Vlvs             |                     | 16.200          | CY           | 1,055.67          | 17,101.85        |
| 21A.03.04.80    | Rip Rap Discharge Channel                          |                     | 70.000          | CY           | 67.80             | 4,746.00         |
| 21A.03.04.90    | Power Controls                                     |                     | 1.000           | LS           | 500,000.00        | 500,000.00       |
| 21A.03.05.00    | Grout Backfill to Seal Pipe                        |                     | 1,009.000       | CY           | 800.00            | 807,200.00       |

05/21/2024 6:47  
SITES30-1 SITES Reservoir 30% OPCC update qtys  
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|                |                                            | BID TOTALS                     |                 |              |                   |                  |
|----------------|--------------------------------------------|--------------------------------|-----------------|--------------|-------------------|------------------|
| <u>Biditem</u> | <u>Description</u>                         | <u>Status - Rnd</u>            | <u>Quantity</u> | <u>Units</u> | <u>Unit Price</u> | <u>Bid Total</u> |
|                |                                            | Golden Gate Diversion          |                 |              |                   | \$14,254,034.24  |
| 21A.04.00.00   | FOUNDATION EXCAVATION                      |                                | 1.000           | LS           |                   |                  |
| 21A.04.02.00   | Drill and Shoot Foundation                 |                                | 114,000.000     | BCY          | 15.37             | 1,752,180.00     |
| 21A.04.03.00   | Dam Foundation Excavation                  |                                | 1,140,000.000   | BCY          | 9.90              | 11,286,000.00    |
| 21A.04.05.00   | Dewatering allowance                       |                                | 1.000           | LS           | 323,250.00        | 323,250.00       |
|                |                                            | Foundation Excavation          |                 |              |                   | \$13,361,430.00  |
| 21A.05.00.00   | FOUNDATION PREPARATION - BENEATH CORE      |                                | 1.000           | LS           |                   |                  |
| 21A.05.01.00   | Initial Foundation Cleaning - Core         |                                | 29,300.000      | SY           | 15.89             | 465,577.00       |
| 21A.05.02.00   | Final Foundation Cleaning - Core           |                                | 29,300.000      | SY           | 13.97             | 409,321.00       |
| 21A.05.03.00   | Dental Excavation                          |                                | 6,000.000       | CY           | 27.47             | 164,820.00       |
| 21A.05.04.00   | Dental Concrete                            |                                | 6,000.000       | CY           | 502.52            | 3,015,120.00     |
| 21A.05.05.00   | Backfill Concrete                          |                                | 5,150.000       | CY           | 593.80            | 3,058,070.00     |
| 21A.05.06.00   | Shaping Excavations                        |                                | 600.000         | CY           | 1.65              | 990.00           |
| 21A.05.07.00   | Slush Grout                                |                                | 8,800.000       | SACK         | 277.45            | 2,441,560.00     |
|                |                                            | Foundation Prep - Beneath Core |                 |              |                   | \$9,555,458.00   |
| 21A.06.00.00   | GROUTING                                   |                                | 1.000           | LS           |                   |                  |
| 21A.06.01.00   | Grout Cap                                  |                                | 6,950.000       | CY           | 1,308.06          | 9,091,017.00     |
| 21A.06.02.00   | Grout Cap Anchors                          |                                | 2,400.000       | LF           | 217.75            | 522,600.00       |
| 21A.06.04.00   | Curtain Grouting - Includes Stich and Fans |                                | 150,900.000     | LF           | 200.00            | 30,180,000.00    |
| 21A.06.06.00   | Type III Cement                            |                                | 2,969.000       | TONS         | 242.44            | 719,804.36       |
|                |                                            | Grouting                       |                 |              |                   | \$40,513,421.36  |
| 21A.07.00.00   | FOUNDATION PREPARATION - BENEATH SHELL     |                                | 1.000           | LS           |                   |                  |
| 21A.07.01.00   | Foundation Cleaning - Shell                |                                | 214,400.000     | SY           | 14.76             | 3,164,544.00     |

| 05/21/2024     | 6:47                                               |                     |                                      |              |                   |                  |
|----------------|----------------------------------------------------|---------------------|--------------------------------------|--------------|-------------------|------------------|
| SITES30-1      | SITES Reservoir 30% OPCC update qtys               |                     |                                      |              |                   |                  |
| ***            |                                                    |                     |                                      |              |                   |                  |
|                |                                                    | BID TOTALS          |                                      |              |                   |                  |
| <u>Biditem</u> | <u>Description</u>                                 | <u>Status - Rnd</u> | <u>Quantity</u>                      | <u>Units</u> | <u>Unit Price</u> | <u>Bid Total</u> |
|                |                                                    |                     | Foundatio Prep - Beneath Shell       |              |                   | \$3,164,544.00   |
|                |                                                    |                     |                                      |              |                   |                  |
| 21A.08.00.00   | FOUNDATION DRAINAGE                                |                     | 1.000                                | LS           |                   |                  |
| 21A.08.01.00   | Furnish and Install Foundation Drain Pipe          |                     | 450.000                              | LF           | 212.47            | 95,611.50        |
| 21A.08.02.00   | Furnish and Install Foundation Drain Manholes      |                     | 2.000                                | EA           | 16,668.05         | 33,336.10        |
| 21A.08.03.00   | Furnish and Install Inspection Well                |                     | 2.000                                | EA           |                   |                  |
| 21A.08.04.00   | Furnish and Install Weir Vault                     |                     | 2.000                                | EA           |                   |                  |
| 21A.08.05.00   | Seepage Partition Walls                            |                     | 0.000                                | CY           |                   |                  |
|                |                                                    |                     |                                      |              |                   |                  |
|                |                                                    |                     | Foundation Drainage                  |              |                   | \$128,947.60     |
|                |                                                    |                     |                                      |              |                   |                  |
| 21A.09.00.00   | ROCK BORROW AREA - DEVELOP, PROCESSING, AND RESTOR |                     | 1.000                                | LS           |                   |                  |
| 21A.09.01.00   | Strip/Overburden/Waste to Stockpile - (Z4A/Z4B/Z5/ |                     | 1,604,100.000                        | BCY          | 6.34              | 10,169,994.00    |
| 21A.09.02.00   | Drill, Blast, Excavate to Crusher and Riprap Proce |                     | 5,354,400.000                        | BCY          | 8.31              | 44,495,064.00    |
| 21A.09.03.00   | Zone 4A, 4B, 7A, and Zone 8 Processing             |                     | 502,000.000                          | ECY          | 30.43             | 15,275,860.00    |
| 21A.09.04.00   | Riprap Processing                                  |                     | 122,300.000                          | ECY          | 32.48             | 3,972,304.00     |
| 21A.09.05.00   | Removal of Excess Sand/Siltstone                   |                     | 1,019,700.000                        | BCY          | 19.89             | 20,281,833.00    |
| 21A.09.07.00   | Topsoil Replacement                                |                     | 138,000.000                          | ECY          | 9.88              | 1,363,440.00     |
| 21A.09.08.00   | Seeding                                            |                     | 82.000                               | AC           | 10,000.00         | 820,000.00       |
|                |                                                    |                     |                                      |              |                   |                  |
|                |                                                    |                     | Rock Borrow Area - Dev, Process Aggs |              |                   | \$96,378,495.00  |
|                |                                                    |                     |                                      |              |                   |                  |
| 21A.10.00.00   | EMBANKMENT                                         |                     | 1.000                                | LS           |                   |                  |
| 21A.10.01.00   | Furnish and Install Zone 1 - Core                  |                     | 1,062,300.000                        | ECY          | 25.52             | 27,109,896.00    |
| 21A.10.02.00   | Purchase, Haul and Place - Zone 2 - Filter         |                     | 245,900.000                          | ECY          | 146.77            | 36,090,743.00    |
| 21A.10.03.00   | Purchase, Haul and Place - Zone 3 - Drain          |                     | 177,900.000                          | ECY          | 134.37            | 23,904,423.00    |
| 21A.10.04.00   | Produce, Haul and Place - Zone 4A - Fine Transitio |                     | 152,700.000                          | ECY          | 26.46             | 4,040,442.00     |
| 21A.10.05.00   | Produce, Haul and Place - Zone 4B - Coarse Transit |                     | 349,300.000                          | ECY          | 24.89             | 8,694,077.00     |
| 21A.10.07.00   | Furnish and Install Zone 5&6 Sand/Siltstone - Rock |                     | 5,456,400.000                        | ECY          | 9.63              | 52,545,132.00    |
| 21A.10.10.00   | Produce, Haul and Place - Zone 7B - Riprap         |                     | 122,300.000                          | ECY          | 22.73             | 2,779,879.00     |
|                |                                                    |                     |                                      |              |                   |                  |
|                |                                                    |                     | Embankment                           |              |                   | \$155,164,592.00 |

05/21/2024 6:47  
 SITES30-1 SITES Reservoir 30% OPCC update qtys  
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**BID TOTALS**

| <u>Biditem</u>                 | <u>Description</u>                                 | <u>Status - Rnd</u> | <u>Quantity</u> | <u>Units</u> | <u>Unit Price</u> | <u>Bid Total</u> |
|--------------------------------|----------------------------------------------------|---------------------|-----------------|--------------|-------------------|------------------|
| 21A.11.00.00                   | INSTRUMENTATION AND TELEMETRY                      |                     | 1.000           | LS           |                   |                  |
| 21A.11.01.00                   | Instrumentation/Telemetry                          |                     | 1.000           | LS           | 2,500,000.00      | 2,500,000.00     |
| Instrumentation and Telemerty  |                                                    |                     |                 |              |                   | \$2,500,000.00   |
| 21A.12.00.00                   | SITE RESTORATION                                   |                     | 1.000           | LS           |                   |                  |
| 21A.12.01.00                   | Seeding                                            |                     | 0.000           | AC           |                   |                  |
| 21A.12.02.00                   | Fencing                                            |                     | 0.000           | LF           |                   |                  |
| 21A.12.03.00                   | Best Management Practices                          |                     | 0.000           | SF           |                   |                  |
| 21A.12.04.00                   | Rock Check Dams                                    |                     | 0.000           | SF           |                   |                  |
| 21A.12.05.00                   | Drainage - Inlets, Culverts                        |                     | 0.000           | EA           |                   |                  |
| 21A.12.06.00                   | Gravel Surfacing Roads and Crests Prod&Placement   |                     | 870.000         | CY           | 111.63            | 97,118.10        |
| Site Restoration               |                                                    |                     |                 |              |                   | \$97,118.10      |
| GOLDEN GATE DAM TOTAL          |                                                    |                     |                 |              |                   | \$344,899,119.41 |
| 21A.14.90.00                   | ALLOWANCE FOR UNLISTED ITEMS                       |                     | 1.000           | LS           |                   |                  |
| 21A.14.90.01                   | Allowance for Unlisted Items                       |                     | 1.000           | LS           | 17,243,650.00     | 17,243,650.00    |
| Allowance for Items not Listed |                                                    |                     |                 |              |                   | \$17,243,650.00  |
| 22B.00.00.00                   | SITES DAM                                          |                     | 0.000           |              |                   |                  |
| 22B.01.00.00                   | PRECONSTRUCTION ACTIVITIES                         |                     | 1.000           | LS           |                   |                  |
| 22B.01.01.00                   | Demolition Work                                    |                     | 0.000           | LS           |                   |                  |
| 22B.01.02.00                   | Clearing and Grubbing                              |                     | 27.000          | ACRE         | 10,383.47         | 280,353.69       |
| 22B.01.04.00                   | Erosion and Sediment Control                       |                     | 27.000          | ACRE         | 97,092.69         | 2,621,502.63     |
| 22B.01.05.00                   | Developing haul routes - Haul routes inside reserv |                     | 22.000          | ACRE         | 15,605.31         | 343,316.82       |
| 22B.01.06.00                   | Developing haul routes - Haul routes outside reser |                     | 15.000          | ACRE         | 11,222.82         | 168,342.30       |
| 22B.01.07.00                   | Developing Stockpile and Staging Areas             |                     | 5.000           | ACRE         | 17,276.82         | 86,384.10        |

| 05/21/2024     | 6:47                                  |                              |                 |              |                   |                  |
|----------------|---------------------------------------|------------------------------|-----------------|--------------|-------------------|------------------|
| SITES30-1      | SITES Reservoir 30% OPCC update qtys  |                              |                 |              |                   |                  |
| ***            |                                       |                              |                 |              |                   |                  |
| <u>Biditem</u> | <u>Description</u>                    | <u>Status - Rnd</u>          | <u>Quantity</u> | <u>Units</u> | <u>Unit Price</u> | <u>Bid Total</u> |
|                |                                       | Preconstruction Activities   |                 |              |                   | \$3,499,899.54   |
| 22A.02.00.00   | COFFERDAM                             |                              | 0.000           |              |                   |                  |
| 22A.02.01.00   | Cofferdam Excavation                  |                              | 189,100.000     | BCY          | 10.56             | 1,996,896.00     |
| 22A.02.02.00   | Cofferdam - Zone 6                    |                              | 48,600.000      | ECY          | 15.05             | 731,430.00       |
| 22A.02.03.00   | Cofferdam - Zone 9                    |                              | 94,100.000      | ECY          | 20.19             | 1,899,879.00     |
| 22A.02.04.00   | Cofferdam - Cutoff Wall               |                              | 24,000.000      | SF           | 30.34             | 728,160.00       |
| 22A.02.05.00   | Cofferdam - Dewatering Allowance      |                              | 0.000           | LS           |                   |                  |
|                |                                       | Cofferdam                    |                 |              |                   | \$5,356,365.00   |
| 22A.04.00.00   | FOUNDATION EXCAVATION                 |                              | 1.000           | LS           |                   |                  |
| 22A.04.02.00   | Drill and Shoot Foundation            |                              | 41,700.000      | BCY          | 12.75             | 531,675.00       |
| 22A.04.03.00   | Dam Foundation Excavation             |                              | 417,000.000     | BCY          | 13.17             | 5,491,890.00     |
| 22A.04.05.00   | Dewatering allowance                  |                              | 12.000          | MONT         | 26,937.50         | 323,250.00       |
|                |                                       | Foundation Excavation        |                 |              |                   | \$6,346,815.00   |
| 22A.05.00.00   | FOUNDATION PREPARATION - BENEATH CORE |                              | 1.000           | LS           |                   |                  |
| 22A.05.01.00   | Initial Foundation Cleaning - Core    |                              | 9,500.000       | SY           | 28.16             | 267,520.00       |
| 22A.05.02.00   | Final Foundation Cleaning - Core      |                              | 9,500.000       | SY           | 13.97             | 132,715.00       |
| 22A.05.03.00   | Dental Excavation                     |                              | 2,900.000       | CY           | 27.47             | 79,663.00        |
| 22A.05.04.00   | Dental Concrete                       |                              | 2,900.000       | CY           | 502.51            | 1,457,279.00     |
| 22A.05.05.00   | Backfill Concrete                     |                              | 2,150.000       | CY           | 487.32            | 1,047,738.00     |
| 22A.05.06.00   | Shaping Excavations                   |                              | 200.000         | CY           | 1.65              | 330.00           |
| 22A.05.07.00   | Slush Grout                           |                              | 2,850.000       | SACK         | 277.45            | 790,732.50       |
|                |                                       | Foundation Prep Beneath Core |                 |              |                   | \$3,775,977.50   |
| 22A.06.00.00   | GROUTING                              |                              | 1.000           | LS           |                   |                  |
| 22A.06.01.00   | Grout Cap                             |                              | 2,950.000       | CY           | 1,399.16          | 4,127,522.00     |
| 22A.06.02.00   | Grout Cap Anchors                     |                              | 2,040.000       | LF           | 217.76            | 444,230.40       |

|                       |                                                    |                               |                        |                     |                          |                         |
|-----------------------|----------------------------------------------------|-------------------------------|------------------------|---------------------|--------------------------|-------------------------|
| 05/21/2024            | 6:47                                               |                               |                        |                     |                          |                         |
| SITES30-1             | SITES Reservoir 30% OPCC update qtys               |                               |                        |                     |                          |                         |
| ***                   |                                                    |                               |                        |                     |                          |                         |
|                       |                                                    | <b>BID TOTALS</b>             |                        |                     |                          |                         |
| <b><u>Biditem</u></b> | <b><u>Description</u></b>                          | <b><u>Status - Rnd</u></b>    | <b><u>Quantity</u></b> | <b><u>Units</u></b> | <b><u>Unit Price</u></b> | <b><u>Bid Total</u></b> |
| 22A.06.04.00          | Curtain Grouting - Includes Stich and Fans         |                               | 79,700.000             | LF                  | 225.00                   | 17,932,500.00           |
| 22A.06.06.00          | Type III Cement                                    |                               | 1,428.000              | TONS                | 242.44                   | 346,204.32              |
|                       |                                                    |                               |                        |                     |                          |                         |
|                       |                                                    | Grouting                      |                        |                     |                          | \$22,850,456.72         |
|                       |                                                    |                               |                        |                     |                          |                         |
| 22A.07.00.00          | FOUNDATION PREPARATION - BENEATH SHELL             |                               | 1.000                  | LS                  |                          |                         |
| 22A.07.01.00          | Foundation Cleaning - Shell                        |                               | 79,100.000             | SY                  | 16.08                    | 1,271,928.00            |
|                       |                                                    |                               |                        |                     |                          |                         |
|                       |                                                    | Foundation Prep Beneath Shell |                        |                     |                          | \$1,271,928.00          |
|                       |                                                    |                               |                        |                     |                          |                         |
| 22A.08.00.00          | FOUNDATION DRAINAGE                                |                               | 1.000                  | LS                  |                          |                         |
| 22A.08.01.00          | Furnish and Install Foundation Drain Pipe          |                               | 500.000                | LF                  | 212.29                   | 106,145.00              |
| 22A.08.02.00          | Furnish and Install Foundation Drain Manholes      |                               | 1.000                  | EA                  | 16,668.02                | 16,668.02               |
| 22A.08.03.00          | Furnish and Install Inspection Well                |                               | 0.000                  | EA                  |                          |                         |
| 22A.08.04.00          | Furnish and Install Weir Vault                     |                               | 0.000                  | EA                  |                          |                         |
| 22A.08.05.00          | Seepage Partition Walls                            |                               | 0.000                  | CY                  |                          |                         |
|                       |                                                    |                               |                        |                     |                          |                         |
|                       |                                                    | Foundation Drainage           |                        |                     |                          | \$122,813.02            |
|                       |                                                    |                               |                        |                     |                          |                         |
| 22A.09.00.00          | ROCK BORROW AREA - DEVELOP, PROCESSING, AND RESTOR |                               | 1.000                  | LS                  |                          |                         |
| 22A.09.01.00          | Strip/Overburden/Waste to Stockpile - (Z4A/Z4B/Z5/ |                               | 589,900.000            | BCY                 | 6.27                     | 3,698,673.00            |
| 22A.09.02.00          | Drill, Blast, Excavate to Crusher and Riprap Proce |                               | 1,922,299.000          | BCY                 | 5.64                     | 10,841,766.36           |
| 22A.09.03.00          | Zone 4A, 4B, 7A, and Zone 8 Processing             |                               | 160,700.000            | ECY                 | 30.43                    | 4,890,101.00            |
| 22A.09.04.00          | Riprap Processing                                  |                               | 67,500.000             | ECY                 | 32.48                    | 2,192,400.00            |
| 22A.09.05.00          | Removal of Excess Sand/Siltstone                   |                               | 377,600.000            | BCY                 | 12.83                    | 4,844,608.00            |
| 22A.09.06.00          | Replace Overburden from Stockpile                  |                               | 106,000.000            | ECY                 | 6.89                     | 730,340.00              |
| 22A.09.07.00          | Topsoil Replacement                                |                               | 58,000.000             | ECY                 | 9.88                     | 573,040.00              |
| 22A.09.08.00          | Seeding                                            |                               | 38.000                 | AC                  | 10,000.00                | 380,000.00              |
|                       |                                                    |                               |                        |                     |                          |                         |
|                       |                                                    | Rock Borrow                   |                        |                     |                          | \$28,150,928.36         |

|                       |                                                    |                            |                        |                     |                          |                         |
|-----------------------|----------------------------------------------------|----------------------------|------------------------|---------------------|--------------------------|-------------------------|
| 05/21/2024            | 6:47                                               |                            |                        |                     |                          |                         |
| SITES30-1             | SITES Reservoir 30% OPCC update qtys               |                            |                        |                     |                          |                         |
| ***                   |                                                    |                            |                        |                     |                          |                         |
|                       |                                                    | <b>BID TOTALS</b>          |                        |                     |                          |                         |
| <b><u>Biditem</u></b> | <b><u>Description</u></b>                          | <b><u>Status - Rnd</u></b> | <b><u>Quantity</u></b> | <b><u>Units</u></b> | <b><u>Unit Price</u></b> | <b><u>Bid Total</u></b> |
| 22A.10.00.00          | EMBANKMENT                                         |                            | 1.000                  | LS                  |                          |                         |
| 22A.10.01.00          | Furnish and Install Zone 1 - Core                  |                            | 276,900.000            | ECY                 | 22.10                    | 6,119,490.00            |
| 22A.10.02.00          | Purchase, Haul and Place - Zone 2 - Filter         |                            | 76,000.000             | ECY                 | 146.77                   | 11,154,520.00           |
| 22A.10.03.00          | Purchase, Haul and Place - Zone 3 - Drain          |                            | 57,900.000             | ECY                 | 134.37                   | 7,780,023.00            |
| 22A.10.04.00          | Produce, Haul and Place - Zone 4A - Fine Transitio |                            | 47,000.000             | ECY                 | 15.67                    | 736,490.00              |
| 22A.10.05.00          | Produce, Haul and Place - Zone 4B - Coarse Transit |                            | 113,700.000            | ECY                 | 20.41                    | 2,320,617.00            |
| 22A.10.07.00          | Furnish and Install Zone 5&6 Sand/Siltstone - Rock |                            | 1,955,000.000          | ECY                 | 8.95                     | 17,497,250.00           |
| 22A.10.10.00          | Produce, Haul and Place - Zone 7B - Riprap         |                            | 67,500.000             | ECY                 | 22.73                    | 1,534,275.00            |
|                       |                                                    | Embankment                 |                        |                     |                          | \$47,142,665.00         |
| 22A.11.00.00          | INSTRUMENTATION AND TELEMETRY                      |                            | 1.000                  | LS                  |                          |                         |
| 22A.11.01.00          | Instrumentation/Telemetry                          |                            | 1.000                  | LS                  | 2,500,000.00             | 2,500,000.00            |
|                       |                                                    | Instrumentation            |                        |                     |                          | \$2,500,000.00          |
| 22A.12.00.00          | SITE RESTORATION                                   |                            | 1.000                  | LS                  |                          |                         |
| 22A.12.01.00          | Seeding                                            |                            | 0.000                  | SF                  |                          |                         |
| 22A.12.02.00          | Fencing                                            |                            | 0.000                  | LF                  |                          |                         |
| 22A.12.03.00          | Best Management Practices                          |                            | 0.000                  | SF                  |                          |                         |
| 22A.12.04.00          | Rock Check Dams                                    |                            | 0.000                  | SF                  |                          |                         |
| 22A.12.05.00          | Drainage - Inlets, Culverts                        |                            | 0.000                  | EA                  |                          |                         |
| 22A.12.06.00          | Gravel Surfacing Roads and Crests Prod&Placement   |                            | 870.000                | CY                  | 111.63                   | 97,118.10               |
|                       |                                                    | Site Restoration           |                        |                     |                          | \$97,118.10             |
|                       |                                                    | SITES DAM                  |                        |                     |                          | \$121,114,966.24        |
| 22A.14.90.00          | ALLOWANCE FOR UNLISTED ITEMS                       |                            | 1.000                  | LS                  |                          |                         |
| 22A.14.90.01          | Allowance for Unlisted Items                       |                            | 1.000                  | LS                  | 5,910,550.00             | 5,910,550.00            |

| 05/21/2024                     | 6:47                                              |                     |                 |              |                   |                  |
|--------------------------------|---------------------------------------------------|---------------------|-----------------|--------------|-------------------|------------------|
| SITES30-1                      | SITES Reservoir 30% OPCC update qtys              |                     |                 |              |                   |                  |
| ***                            |                                                   |                     |                 |              |                   |                  |
| <u>Biditem</u>                 | <u>Description</u>                                | <u>Status - Rnd</u> | <u>Quantity</u> | <u>Units</u> | <u>Unit Price</u> | <u>Bid Total</u> |
| Allowance for Items not Listed |                                                   |                     |                 |              |                   | \$5,910,550.00   |
| 22B.02.00.00                   | UPSTREAM PORTAL                                   |                     | 1.000           | LS           |                   |                  |
| 22B.02.01.00                   | Excavation - Structural Excavation                |                     | 32,311.000      | CY           | 35.71             | 1,153,825.81     |
| 22B.02.02.00                   | Rock Bolts                                        |                     | 500.000         | LF           | 114.52            | 57,260.00        |
| 22B.02.03.00                   | Soil Nails - Passive Anchors                      |                     | 36,100.000      | LF           | 126.89            | 4,580,729.00     |
| 22B.02.04.00                   | Shotcrete Portal Face                             |                     | 707.000         | CY           | 734.29            | 519,143.03       |
| 22B.02.05.00                   | Dewatering                                        |                     | 1.000           | LS           |                   |                  |
| Upstream Portal                |                                                   |                     |                 |              |                   | \$6,310,957.84   |
| 22B.03.00.00                   | INTAKE STRUCTURE - CONCRETE                       |                     | 1.000           | LS           |                   |                  |
| 22B.03.01.00                   | Slab (At Trash Rack)                              |                     | 260.000         | CY           | 1,063.83          | 276,595.80       |
| 22B.03.01.20                   | Slab Rebar                                        |                     | 263.000         | TN           | 4,239.14          | 1,114,893.82     |
| 22B.03.02.00                   | Mass Concrete (Intake Structure)                  |                     | 3,980.000       | CY           | 673.17            | 2,679,216.60     |
| 22B.03.02.20                   | Intake Rebar                                      |                     | 1,094.000       | TN           | 4,239.15          | 4,637,630.10     |
| 22B.03.03.00                   | Piles                                             |                     | 145.000         | CY           | 2,476.01          | 359,021.45       |
| 22B.03.03.20                   | Pile Rebar                                        |                     | 118.000         | TN           | 4,239.14          | 500,218.52       |
| Intake Structure - Concrete    |                                                   |                     |                 |              |                   | \$9,567,576.29   |
| 22B.04.00.00                   | INTAKE STRUCTURE - MECHANICAL                     |                     | 1.000           | LS           |                   |                  |
| 22B.04.01.00                   | 10' Knife Gate Valves                             |                     | 2.000           | EA           | 2,772,742.59      | 5,545,485.18     |
| 22B.04.02.00                   | 10' Bulk Head Slots                               |                     | 2.000           | EA           | 5,777.63          | 11,555.26        |
| 22B.04.02.00                   | Trash Rack                                        |                     | 47.000          | TN           | 7,150.59          | 336,077.73       |
| 22B.04.03.10                   | Flare Bell Mouth Inlet Piping                     |                     | 26.000          | TN           | 23,342.32         | 606,900.32       |
| 22B.04.03.20                   | Bifurcation Piping                                |                     | 175.000         | TN           | 28,665.58         | 5,016,476.50     |
| 22B.04.03.30                   | Air Vent Configured Piping                        |                     | 5.000           | TN           | 18,020.24         | 90,101.20        |
| 22B.04.03.40                   | 48-Inch Air Vent Piping to Grade                  |                     | 450.000         | LF           | 735.83            | 331,123.50       |
| 22B.04.03.50                   | Foundations an d Supports for 48" Air - ALLOWANCE |                     | 1.000           | LS           |                   |                  |
| Intake Structure Mechanical    |                                                   |                     |                 |              |                   | \$11,937,719.69  |

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SITES30-1 SITES Reservoir 30% OPCC update qtys  
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**BID TOTALS**

| <u>Biditem</u> | <u>Description</u>                 | <u>Status - Rnd</u> | <u>Quantity</u> | <u>Units</u> | <u>Unit Price</u> | <u>Bid Total</u> |
|----------------|------------------------------------|---------------------|-----------------|--------------|-------------------|------------------|
| 22B.05.00.00   | DOWNSTREAM PORTAL                  |                     | 1.000           | LS           |                   |                  |
| 22B.05.01.00   | Excavation - Structural Excavation |                     | 165,462.000     | CY           | 36.70             | 6,072,455.40     |
| 22B.05.02.00   | Rock Bolts                         |                     | 1,600.000       | LF           | 112.98            | 180,768.00       |
| 22B.05.03.00   | Soil Nails - Passive Anchors       |                     | 154,200.000     | LF           | 126.85            | 19,560,270.00    |
| 22B.05.04.00   | Shotcrete Portal Face              |                     | 2,950.000       | CY           | 696.63            | 2,055,058.50     |
| 22B.05.05.00   | Riprap Discharge Channel           |                     | 2,059.000       | CY           | 22.73             | 46,801.07        |

Downstream Portal

\$27,915,352.97

|              |                                   |  |           |    |          |              |
|--------------|-----------------------------------|--|-----------|----|----------|--------------|
| 22B.06.00.00 | OUTLET STRUCTURE - CONCRETE       |  | 1.000     | LS |          |              |
| 22B.06.01.00 | Slab Concrete                     |  | 1,618.000 | CY | 986.90   | 1,596,804.20 |
| 22B.06.01.20 | Slab Rebar                        |  | 58.000    | TN | 4,239.14 | 245,870.12   |
| 22B.06.02.00 | Wall Concrete                     |  | 1,327.000 | CY | 1,604.58 | 2,129,277.66 |
| 22B.06.02.20 | Wall Rebar                        |  | 100.000   | TN | 4,239.14 | 423,914.00   |
| 22B.06.03.00 | Roof Concrete                     |  | 55.000    | CY | 6,418.55 | 353,020.25   |
| 22B.06.03.20 | Roof Rebar                        |  | 49.000    | TN | 4,239.14 | 207,717.86   |
| 22B.06.04.00 | Mass Concrete - Thrust Block      |  | 2,494.000 | CY | 560.72   | 1,398,435.68 |
| 22B.04.04.20 | Rebar - Thrust Block              |  | 39.000    | TN | 4,239.14 | 165,326.46   |
| 22B.06.04.30 | Pipe Reinforcement - Thrust Block |  | 13.000    | TN | 42.41    | 551.33       |

Outlet Structure - Concrete

\$6,520,917.56

|              |                                                     |  |         |    |              |              |
|--------------|-----------------------------------------------------|--|---------|----|--------------|--------------|
| 22B.07.00.00 | OUTLET STRUCTURE - MECHANICAL                       |  | 1.000   | LS |              |              |
| 22B.07.01.10 | 9.5' Butterfly Valve                                |  | 2.000   | EA | 1,455,736.11 | 2,911,472.22 |
| 22B.07.01.20 | 9.5' Fixed Cone Valve                               |  | 2.000   | EA | 1,734,508.54 | 3,469,017.08 |
| 22B.07.01.30 | 2.5' Knife Gate Valve                               |  | 2.000   | EA | 135,560.42   | 271,120.84   |
| 22B.07.01.40 | 2.5' Sleeve Valve (Model B12)                       |  | 2.000   | EA | 487,364.20   | 974,728.40   |
| 22B.07.01.50 | 10-Inch Mag Meter                                   |  | 1.000   | EA | 57,344.60    | 57,344.60    |
| 22B.07.01.60 | 2' Butterfly Valve                                  |  | 1.000   | EA | 146,917.34   | 146,917.34   |
| 22B.07.01.70 | 10-Inch Fixed Cone Valve                            |  | 1.000   | EA | 186,838.71   | 186,838.71   |
| 22B.07.02.10 | Bifurvation Piping                                  |  | 175.000 | TN | 17,429.55    | 3,050,171.25 |
| 22B.07.02.20 | Smaller Outlet Piping                               |  | 3.000   | TN | 10,451.82    | 31,355.46    |
| 22B.07.02.80 | Air Release Valve                                   |  | 3.000   | EA | 78,557.65    | 235,672.95   |
| 22B.07.03.00 | Allowance for Structural - Stairs, Walkway, Hatches |  | 1.000   | LS |              |              |

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|----------------|--------------------------------------|------------------------------------|-----------------|--------------|-------------------|------------------|
| SITES30-1      | SITES Reservoir 30% OPCC update qtys |                                    |                 |              |                   |                  |
| ***            |                                      |                                    |                 |              |                   |                  |
| <u>Biditem</u> | <u>Description</u>                   | <u>Status - Rnd</u>                | <u>Quantity</u> | <u>Units</u> | <u>Unit Price</u> | <u>Bid Total</u> |
|                |                                      | BID TOTALS                         |                 |              |                   |                  |
|                |                                      | Outlet Str Mechanical              |                 |              | \$11,334,638.85   |                  |
| 22B.08.00.00   | CONTROL HOUSE FOR INTAKE             |                                    | 1.000           | LS           |                   |                  |
| 22B.08.01.10   | Building                             |                                    | 450.000         | SF           | 1,000.00          | 450,000.00       |
| 22B.08.01.20   | HPU Unit                             |                                    | 1.000           | EA           | 750,000.00        | 750,000.00       |
| 22B.08.01.30   | Controls                             |                                    | 1.000           | LS           | 300,000.00        | 300,000.00       |
| 22B.08.01.40   | Electrical to Structure              |                                    | 1.000           | LS           |                   |                  |
|                |                                      | Control House for Intake           |                 |              | \$1,500,000.00    |                  |
| 22B.09.00.00   | ELECTRICAL AND CONTROLS FOR OUTLET   |                                    | 1.000           | LS           |                   |                  |
| 22B.08.02.10   | Controls                             |                                    | 1.000           | LS           | 300,000.00        | 300,000.00       |
| 22B.08.02.20   | Electrical to Structure              |                                    | 1.000           | LS           | 500,000.00        | 500,000.00       |
|                |                                      | Electrical and Controls for Outlet |                 |              | \$800,000.00      |                  |
| 22B.10.00.00   | SITES DIVERSION                      |                                    | 1.000           | LS           |                   |                  |
| 22B.10.01.10   | Pre-Excavation Drilling and Grouting |                                    | 15,200.000      | LF           | 500.00            | 7,600,000.00     |
| 22B.10.01.20   | Excavation                           |                                    | 18,313.000      | CY           | 1,009.12          | 18,480,014.56    |
| 22B.10.01.30   | Excavation Support - Steel Sets      |                                    | 132.000         | EA           | 400.00            | 52,800.00        |
| 22B.10.01.40   | Excavation Support - Rock Anchors    |                                    | 10,175.000      | LF           | 125.00            | 1,271,875.00     |
| 22B.10.01.50   | Floor - Mud Mat                      |                                    | 468.000         | CY           | 500.00            | 234,000.00       |
| 22B.10.01.60   | Shotcrete                            |                                    | 1,681.000       | CY           | 1,000.00          | 1,681,000.00     |
| 22B.10.01.70   | Steel Pipe                           |                                    | 1,575.000       | TN           | 14,000.00         | 22,050,000.00    |
| 22B.10.01.80   | LDCC Fill                            |                                    | 7,333.000       | CY           | 900.00            | 6,599,700.00     |
| 22B.10.01.90   | Concrete Fill                        |                                    | 537.000         | CY           | 701.46            | 376,684.02       |
| 22B.10.01.100  | Rebar for Concrete Encasement        |                                    | 28.000          | TN           | 7,861.23          | 220,114.44       |
|                |                                      | SITES Diversion                    |                 |              | \$58,566,188.02   |                  |

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SITES30-1 SITES Reservoir 30% OPCC update qtys  
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|                |                                                    | BID TOTALS          |                                |              |                   |                  |
|----------------|----------------------------------------------------|---------------------|--------------------------------|--------------|-------------------|------------------|
| <u>Biditem</u> | <u>Description</u>                                 | <u>Status - Rnd</u> | <u>Quantity</u>                | <u>Units</u> | <u>Unit Price</u> | <u>Bid Total</u> |
|                |                                                    |                     | Intake                         |              |                   | \$134,453,351.22 |
|                | ALLOWANCE for ITEMS not LISTED                     |                     | 0.000                          |              |                   |                  |
|                | Allowance for Items not Listed                     |                     | 1.000                          | LS           | 6,722,650.00      | 6,722,650.00     |
|                |                                                    |                     | Allowance for Items not Listed |              |                   | \$6,722,650.00   |
| 23.00.00.00    | SADDLE DAM 3                                       |                     | 0.000                          | LS           |                   |                  |
| 23 01.00.00    | PRECONSTRUCTION ACTIVITIES                         |                     | 1.000                          | LS           |                   |                  |
| 23.01.02.00    | Clearing and Grubbing                              |                     | 46.000                         | ACRE         | 10,383.51         | 477,641.46       |
| 23.01.03.00    | Erosion and Sediment Control                       |                     | 46.000                         | ACRE         | 81,687.65         | 3,757,631.90     |
| 23.01.05.00    | Developing haul routes - Haul routes inside reserv |                     | 51.000                         | ACRE         | 15,605.22         | 795,866.22       |
| 23.01.06.00    | Developing haul routes - Haul routes outside reser |                     | 12.000                         | ACRE         | 11,222.82         | 134,673.84       |
| 23.01.07.00    | Developing Stockpile and Staging Areas             |                     | 8.000                          | ACRE         | 17,276.82         | 138,214.56       |
|                |                                                    |                     | Preconstruction                |              |                   | \$5,304,027.98   |
| 23.04.00.00    | FOUNDATION EXCAVATION                              |                     | 0.000                          |              |                   |                  |
| 23.04.03.00    | Foundation Excavation                              |                     | 572,500.000                    | CY           | 10.67             | 6,108,575.00     |
|                |                                                    |                     | Foundation Exc                 |              |                   | \$6,108,575.00   |
| 23.05.00.00    | FOUNDATION PREPARATION - BENEATH CORE              |                     | 0.000                          |              |                   |                  |
| 23.05.01.00    | Initial Foundation Prep - Core                     |                     | 31,400.000                     | SY           | 15.09             | 473,826.00       |
| 23.05.02.00    | Final Foundation Prep - core                       |                     | 39,250.000                     | SY           | 14.25             | 559,312.50       |
| 23.05.03.00    | Dental Ecavation                                   |                     | 4,350.000                      | CY           | 27.47             | 119,494.50       |
| 23.05.04.00    | Dental Concrete                                    |                     | 4,350.000                      | CY           | 502.51            | 2,185,918.50     |
| 23.05.05.00    | Backfill Concrete                                  |                     | 8,650.000                      | CY           | 487.30            | 4,215,145.00     |
| 23.05.06.00    | Shaping Excavations                                |                     | 650.000                        | CY           | 1.65              | 1,072.50         |
| 23.05.07.00    | Slush Grout                                        |                     | 9,400.000                      | SACK         | 277.45            | 2,608,030.00     |

|                       |                                      |                            |                        |                     |                          |                         |
|-----------------------|--------------------------------------|----------------------------|------------------------|---------------------|--------------------------|-------------------------|
| 05/21/2024            | 6:47                                 |                            |                        |                     |                          |                         |
| SITES30-1             | SITES Reservoir 30% OPCC update qtys |                            |                        |                     |                          |                         |
| ***                   |                                      |                            |                        |                     |                          |                         |
| <b><u>Biditem</u></b> | <b><u>Description</u></b>            | <b><u>Status - Rnd</u></b> | <b><u>Quantity</u></b> | <b><u>Units</u></b> | <b><u>Unit Price</u></b> | <b><u>Bid Total</u></b> |
|                       |                                      |                            | Foundation Prep        |                     |                          | \$10,162,799.00         |
| 23.06.00.00           | GROUTING                             |                            | 0.000                  | LS                  |                          |                         |
| 23.06.03.00           | Grout Cutoff Wall                    |                            | 2,800.000              | CY                  | 1,500.00                 | 4,200,000.00            |
| 23.06.04.00           | Curtain Grouting                     |                            | 110,450.000            | LF                  | 200.00                   | 22,090,000.00           |
| 23.06.05.00           | Consolidation Grouting               |                            | 41,600.000             | LF                  | 200.00                   | 8,320,000.00            |
| 23.06.06.00           | Type III Cement                      |                            | 2,969.000              | TONS                | 242.44                   | 719,804.36              |
|                       |                                      |                            | Grouting               |                     |                          | \$35,329,804.36         |
| 23.07.00.00           | FOUNDATION PREP BENEATH SHELL        |                            | 0.000                  |                     |                          |                         |
| 23.07.01.10           | Initial Cleaning - Shell             |                            | 146,100.000            | SY                  | 14.97                    | 2,187,117.00            |
|                       |                                      |                            | Foundation Prep        |                     |                          | \$2,187,117.00          |
| 23.08.00.00           | FOUNDATION DRAINAGE                  |                            | 0.000                  | LS                  |                          |                         |
| 23.08.01.00           | F& I Foundation Drainage Pipe        |                            | 3,050.000              | LF                  | 196.38                   | 598,959.00              |
|                       |                                      |                            | Foundation Drainage    |                     |                          | \$598,959.00            |
| 23.09.00.00           | DEVELOP BORROW AREAS                 |                            | 0.000                  |                     |                          |                         |
| 23.09.01.00           | Strip Borrow Areas                   |                            | 53,000.000             | CY                  | 12.83                    | 679,990.00              |
| 23.09.02.00           | Z9 Strip Overbirden                  |                            | 232,000.000            | CY                  | 1.35                     | 313,200.00              |
| 23.09.06.00           | Replace Topsoil                      |                            | 142,500.000            | CY                  | 9.88                     | 1,407,900.00            |
|                       |                                      |                            | Develop Borrow Areas   |                     |                          | \$2,401,090.00          |
| 23.10.00.00           | EMBANKMENT                           |                            | 0.000                  |                     |                          |                         |
| 23.10.01.00           | Zone 1 Core                          |                            | 400,600.000            | CY                  | 25.52                    | 10,223,312.00           |
| 23.10.02.40           | Zone 2 Filter                        |                            | 92,100.000             | CY                  | 146.77                   | 13,517,517.00           |

|                                |                                                    |                            |                        |                     |                          |                         |
|--------------------------------|----------------------------------------------------|----------------------------|------------------------|---------------------|--------------------------|-------------------------|
| 05/21/2024                     | 6:47                                               |                            |                        |                     |                          |                         |
| SITES30-1                      | SITES Reservoir 30% OPCC update qtys               |                            |                        |                     |                          |                         |
| ***                            |                                                    |                            |                        |                     |                          |                         |
|                                |                                                    | <b>BID TOTALS</b>          |                        |                     |                          |                         |
| <b><u>Biditem</u></b>          | <b><u>Description</u></b>                          | <b><u>Status - Rnd</u></b> | <b><u>Quantity</u></b> | <b><u>Units</u></b> | <b><u>Unit Price</u></b> | <b><u>Bid Total</u></b> |
| 23.10.03.40                    | Zone 3 Drain                                       |                            | 77,500.000             | CY                  | 134.98                   | 10,460,950.00           |
| 23.10.09.00                    | Zone 7a Bedding                                    |                            | 19,430.000             | CY                  | 68.28                    | 1,326,680.40            |
| 23.10.10.00                    | Zone 7B Riprap                                     |                            | 61,520.000             | CY                  | 66.60                    | 4,097,232.00            |
| 23.10.08.10                    | Zone 8 Coarse Filter                               |                            | 75,250.000             | CY                  | 142.42                   | 10,717,105.00           |
| 23.10.08.00                    | Zone 9 Random Shell                                |                            | 1,880,430.000          | CY                  | 9.59                     | 18,033,323.70           |
| 23.10.11.00                    | Groin Protection                                   |                            | 1,830.000              | CY                  | 67.80                    | 124,074.00              |
|                                |                                                    |                            |                        |                     |                          |                         |
| Embankment                     |                                                    |                            |                        |                     |                          | \$68,500,194.10         |
|                                |                                                    |                            |                        |                     |                          |                         |
|                                |                                                    |                            |                        |                     |                          |                         |
| Saddle Dam 3                   |                                                    |                            |                        |                     |                          | \$130,592,566.44        |
|                                |                                                    |                            |                        |                     |                          |                         |
| 23.11.00.00                    | ALLOWANCE FOR ITEMS NOT LISTED                     |                            | 0.000                  |                     |                          |                         |
| 23.11.01.00                    | Allowance for Items not Listed                     |                            | 1.000                  | LS                  | 6,424,250.00             | 6,424,250.00            |
|                                |                                                    |                            |                        |                     |                          |                         |
| Allowance for Items not Listed |                                                    |                            |                        |                     |                          | \$6,424,250.00          |
|                                |                                                    |                            |                        |                     |                          |                         |
| 24.00.00.00                    | SADDLE DAM 5                                       |                            | 0.000                  | LS                  |                          |                         |
| 24.01.00.00                    | PRECONSTRUCTION ACTIVITIES                         |                            | 1.000                  | LS                  |                          |                         |
| 24.01.02.00                    | Clearing and Grubbing                              |                            | 20.000                 | ACRE                | 10,383.57                | 207,671.40              |
| 24.01.04.00                    | Erosion and Sediment Control                       |                            | 20.000                 | ACRE                | 81,759.88                | 1,635,197.60            |
| 24.01.05.00                    | Developing haul routes - Haul routes inside reserv |                            | 32.000                 | ACRE                | 15,605.17                | 499,365.44              |
| 24.01.06.00                    | Developing haul routes - Haul routes outside reser |                            | 21.000                 | ACRE                | 11,222.83                | 235,679.43              |
| 24.01.07.00                    | Developing Stockpile and Staging Areas             |                            | 8.000                  | ACRE                | 17,276.82                | 138,214.56              |
|                                |                                                    |                            |                        |                     |                          |                         |
| Preconstrucion                 |                                                    |                            |                        |                     |                          | \$2,716,128.43          |
|                                |                                                    |                            |                        |                     |                          |                         |
| 24.04.00.00                    | FOUNDATION EXCAVATION                              |                            | 0.000                  |                     |                          |                         |
| 24.04.03.00                    | Foundation Excavation                              |                            | 300,000.000            | CY                  | 8.52                     | 2,556,000.00            |

| 05/21/2024     | 6:47                                  |                     |                               |              |                   |                  |
|----------------|---------------------------------------|---------------------|-------------------------------|--------------|-------------------|------------------|
| SITES30-1      | SITES Reservoir 30% OPCC update qtys  |                     |                               |              |                   |                  |
| ***            |                                       |                     |                               |              |                   |                  |
|                |                                       | BID TOTALS          |                               |              |                   |                  |
| <u>Biditem</u> | <u>Description</u>                    | <u>Status - Rnd</u> | <u>Quantity</u>               | <u>Units</u> | <u>Unit Price</u> | <u>Bid Total</u> |
|                |                                       |                     | Foundation Exc                |              |                   | \$2,556,000.00   |
|                |                                       |                     |                               |              |                   |                  |
| 24.05.00.00    | FOUNDATION PREPARATION - BENEATH CORE |                     | 0.000                         |              |                   |                  |
| 24.05.01.00    | Initial Foundation Prep - Core        |                     | 16,600.000                    | SY           | 20.51             | 340,466.00       |
| 24.05.02.00    | Final Foundation Prep - core          |                     | 20,750.000                    | SY           | 13.97             | 289,877.50       |
| 24.05.03.00    | Dental Ecavation                      |                     | 2,200.000                     | CY           | 27.47             | 60,434.00        |
| 24.05.04.00    | Dental Concrete                       |                     | 2,200.000                     | CY           | 502.50            | 1,105,500.00     |
| 24.05.05.00    | Backfill Concrete                     |                     | 4,600.000                     | CY           | 487.30            | 2,241,580.00     |
| 24.05.06.00    | Shaping Excavations                   |                     | 350.000                       | CY           | 1.65              | 577.50           |
| 24.05.07.00    | Slush Grout                           |                     | 5,000.000                     | SACK         | 277.45            | 1,387,250.00     |
|                |                                       |                     |                               |              |                   |                  |
|                |                                       |                     | Foundation Preparation        |              |                   | \$5,425,685.00   |
|                |                                       |                     |                               |              |                   |                  |
| 24.06.00.00    | GROUTING                              |                     | 0.000                         | LS           |                   |                  |
| 24.06.03.00    | Grout Cutoff Wall                     |                     | 1,615.000                     | CY           | 1,500.00          | 2,422,500.00     |
| 24.06.04.00    | Curtain Grouting                      |                     | 81,300.000                    | LF           | 200.00            | 16,260,000.00    |
| 24.06.05.00    | Consolidation Grouting                |                     | 20,000.000                    | LF           | 200.00            | 4,000,000.00     |
| 24.06.06.00    | Type III Cement                       |                     | 2,969.000                     | TONS         | 242.44            | 719,804.36       |
|                |                                       |                     |                               |              |                   |                  |
|                |                                       |                     | Grouting                      |              |                   | \$23,402,304.36  |
|                |                                       |                     |                               |              |                   |                  |
| 24.07.00.00    | FOUNDATION PREPARATION- BENEATH SHELL |                     | 0.000                         |              |                   |                  |
| 24.07.01.00    | Initial Cleaning Shell                |                     | 64,800.000                    | SY           | 16.61             | 1,076,328.00     |
|                |                                       |                     |                               |              |                   |                  |
|                |                                       |                     | Foundation Prep Beneath Shell |              |                   |                  |
|                |                                       |                     |                               |              |                   |                  |
| 24.08.00.00    | FOUNDATION DRAINAGE                   |                     | 0.000                         |              |                   |                  |
| 24.08.01.00    | F & I Foundation Drain Pipe           |                     | 2,270.000                     | LF           | 212.28            | 481,875.60       |
| 24.08.02.00    | Inspection Well                       |                     | 2.000                         | EA           | 16,668.05         | 33,336.10        |
| 24.08.03.00    | Weir Vault                            |                     | 2.000                         | EA           | 16,668.05         | 33,336.10        |

|                       |                                      |                            |                                |                     |                          |                         |
|-----------------------|--------------------------------------|----------------------------|--------------------------------|---------------------|--------------------------|-------------------------|
| 05/21/2024            | 6:47                                 |                            |                                |                     |                          |                         |
| SITES30-1             | SITES Reservoir 30% OPCC update qtys |                            |                                |                     |                          |                         |
| ***                   |                                      |                            |                                |                     |                          |                         |
| <b><u>Biditem</u></b> | <b><u>Description</u></b>            | <b><u>Status - Rnd</u></b> | <b><u>Quantity</u></b>         | <b><u>Units</u></b> | <b><u>Unit Price</u></b> | <b><u>Bid Total</u></b> |
|                       |                                      |                            | Foundation Drainage            |                     |                          | \$548,547.80            |
| 24.09.00.00           | DEVELOP BORROW AREAS                 |                            | 0.000                          |                     |                          |                         |
| 24.09.08.10           | Z1 Strip Overburden Surplus          |                            | 80,000.000                     | CY                  | 12.83                    | 1,026,400.00            |
| 24.09.06.00           | Replace Topsoil Borrow Area          |                            | 49,000.000                     | CY                  | 9.88                     | 484,120.00              |
| 24.09.07.00           | Drill/Shoot                          |                            | 82,780.000                     | CY                  | 5.64                     | 466,879.20              |
|                       |                                      |                            | Develop Borrow Areas           |                     |                          | \$1,977,399.20          |
| 24.10.00.00           | EMBANKMENT                           |                            | 0.000                          |                     |                          |                         |
| 24.10.01.00           | Zone 1 Core                          |                            | 138,000.000                    | CY                  | 25.52                    | 3,521,760.00            |
| 24.10.02.40           | Zone 2 Filter                        |                            | 31,750.000                     | CY                  | 146.77                   | 4,659,947.50            |
| 24.10.03.40           | Zone 3 Drain                         |                            | 26,700.000                     | CY                  | 134.98                   | 3,603,966.00            |
| 24.10.09.00           | Zone 7a Bedding                      |                            | 6,700.000                      | CY                  | 70.01                    | 469,067.00              |
| 24.10.10.00           | Zone 7B Riprap                       |                            | 21,200.000                     | CY                  | 65.70                    | 1,392,840.00            |
| 24.10.06.20           | Zone 8 Coarse Filter                 |                            | 25,950.000                     | CY                  | 142.43                   | 3,696,058.50            |
| 24.10.08.00           | Zone 9 Random Shell                  |                            | 647,850.000                    | CY                  | 8.95                     | 5,798,257.50            |
| 24.10.11.00           | Groin Protection                     |                            | 1,030.000                      | CY                  | 67.80                    | 69,834.00               |
|                       |                                      |                            | Embankment                     |                     |                          | \$23,211,730.50         |
|                       |                                      |                            | Saddle Dam 5                   |                     |                          | \$59,837,795.29         |
| 24.11.00.00           | ALLOWANCE FOR ITEMS NOT LISTED       |                            | 0.000                          |                     |                          |                         |
| 24.11.01.00           | Allowance for Items not listed       |                            | 1.000                          | LS                  | 3,452,850.00             | 3,452,850.00            |
|                       |                                      |                            | Allowance for Items not Listed |                     |                          | \$3,452,850.00          |
| 25.00.00.00           | MINOR SADDLE DAMS                    |                            | 0.000                          | LS                  |                          |                         |

|                       |                                                    |                            |                        |                     |                          |                         |
|-----------------------|----------------------------------------------------|----------------------------|------------------------|---------------------|--------------------------|-------------------------|
| 05/21/2024            | 6:47                                               |                            |                        |                     |                          |                         |
| SITES30-1             | SITES Reservoir 30% OPCC update qtys               |                            |                        |                     |                          |                         |
| ***                   |                                                    |                            |                        |                     |                          |                         |
|                       |                                                    | <b>BID TOTALS</b>          |                        |                     |                          |                         |
| <b><u>Biditem</u></b> | <b><u>Description</u></b>                          | <b><u>Status - Rnd</u></b> | <b><u>Quantity</u></b> | <b><u>Units</u></b> | <b><u>Unit Price</u></b> | <b><u>Bid Total</u></b> |
| 22A 01.00.00          | PRECONSTRUCTION ACTIVITIES                         |                            | 1.000                  | LS                  |                          |                         |
| 22A.01.02.00          | Clearing and Grubbing                              |                            | 49.000                 | ACRE                | 10,383.54                | 508,793.46              |
| 22A.01.04.00          | Erosion and Sediment Control                       |                            | 49.000                 | ACRE                | 81,698.16                | 4,003,209.84            |
| 22A.01.05.00          | Developing haul routes - Haul routes inside reserv |                            | 49.000                 | ACRE                | 15,605.23                | 764,656.27              |
| 22A.01.06.00          | Developing haul routes - Haul routes outside reser |                            | 48.000                 | ACRE                | 11,222.82                | 538,695.36              |
| 22A.01.07.00          | Developing Stockpile and Staging Areas             |                            | 32.000                 | ACRE                | 17,276.82                | 552,858.24              |
|                       |                                                    |                            |                        |                     |                          |                         |
|                       |                                                    | Preconstruction            |                        |                     |                          | \$6,368,213.17          |
|                       |                                                    |                            |                        |                     |                          |                         |
| 25.04.03.00           | FOUNDATION EXCAVATION                              |                            | 0.000                  |                     |                          |                         |
|                       | Foundation Excavation                              |                            | 483,000.000            | CY                  | 8.52                     | 4,115,160.00            |
|                       |                                                    |                            |                        |                     |                          |                         |
|                       |                                                    | Foundation Excavation      |                        |                     |                          | \$4,115,160.00          |
|                       |                                                    |                            |                        |                     |                          |                         |
| 25.05.00.00           | FOUNDATION PREPARATION                             |                            | 0.000                  |                     |                          |                         |
| 25.05.01.00           | Initial Foundation Prep - Core                     |                            | 17,400.000             | SY                  | 15.43                    | 268,482.00              |
| 25.05.02.00           | Final Foundation Prep - core                       |                            | 21,750.000             | SY                  | 13.97                    | 303,847.50              |
| 25.05.03.00           | Dental Ecavation                                   |                            | 2,300.000              | CY                  | 27.47                    | 63,181.00               |
| 25.05.04.00           | Dental Concrete                                    |                            | 2,300.000              | CY                  | 502.51                   | 1,155,773.00            |
| 25.05.05.00           | Backfill Concrete                                  |                            | 4,800.000              | CY                  | 487.30                   | 2,339,040.00            |
| 25.05.06.00           | Shaping Excavations                                |                            | 350.000                | CY                  | 1.65                     | 577.50                  |
| 25.05.07.00           | Slush Grout                                        |                            | 5,250.000              | SACK                | 277.45                   | 1,456,612.50            |
|                       |                                                    |                            |                        |                     |                          |                         |
|                       |                                                    | Foundation Preparation     |                        |                     |                          | \$5,587,513.50          |
|                       |                                                    |                            |                        |                     |                          |                         |
| 25.06.00.00           | GROUTING                                           |                            | 0.000                  | LS                  |                          |                         |
| 25.06.03.00           | Grout Cutoff Wall                                  |                            | 1,450.000              | CY                  | 1,500.00                 | 2,175,000.00            |
| 25.06.04.00           | Curtain Grouting                                   |                            | 78,750.000             | LF                  | 200.00                   | 15,750,000.00           |
| 25.06.05.00           | Consolidation Grouting                             |                            | 22,300.000             | LF                  | 200.00                   | 4,460,000.00            |
| 25.06.06.00           | Type III Cement                                    |                            | 2,969.000              | TONS                | 242.44                   | 719,804.36              |
|                       |                                                    |                            |                        |                     |                          |                         |
|                       |                                                    | Grouting                   |                        |                     |                          | \$23,104,804.36         |

|                       |                                      |                            |                        |                     |                          |                         |
|-----------------------|--------------------------------------|----------------------------|------------------------|---------------------|--------------------------|-------------------------|
| 05/21/2024            | 6:47                                 |                            |                        |                     |                          |                         |
| SITES30-1             | SITES Reservoir 30% OPCC update qtys |                            |                        |                     |                          |                         |
| ***                   |                                      |                            |                        |                     |                          |                         |
|                       |                                      | <b>BID TOTALS</b>          |                        |                     |                          |                         |
| <b><u>Biditem</u></b> | <b><u>Description</u></b>            | <b><u>Status - Rnd</u></b> | <b><u>Quantity</u></b> | <b><u>Units</u></b> | <b><u>Unit Price</u></b> | <b><u>Bid Total</u></b> |
| 25.08.00.00           | FOUNDATION DRAINAGE                  |                            | 0.000                  | LS                  |                          |                         |
| 25.08.01.00           | F & I Foundation Drain Pipe          |                            | 3,500.000              | LF                  | 212.28                   | 742,980.00              |
| 25.08.02.00           | Inspection Well                      |                            | 2.000                  | EA                  | 16,668.05                | 33,336.10               |
| 25.08.03.00           | Weir Vault                           |                            | 2.000                  | EA                  | 16,668.05                | 33,336.10               |
| Foundation Drainage   |                                      |                            |                        |                     |                          | \$809,652.20            |
| 25.08.00.00           | DEVELOP BORROW AREAS                 |                            | 0.000                  | LS                  |                          |                         |
| 25.09.08.10           | Z9 Strip Overburden                  |                            | 103,000.000            | CY                  | 12.83                    | 1,321,490.00            |
| 25.09.06.00           | Replace Topsoil                      |                            | 61,000.000             | CY                  | 9.88                     | 602,680.00              |
| Develop Borrow Areas  |                                      |                            |                        |                     |                          | \$1,924,170.00          |
| 25.10.00.00           | EMBANKMENT                           |                            | 0.000                  |                     |                          |                         |
| 25.10.01.00           | Zone 1 Core                          |                            | 150,820.000            | CY                  | 25.52                    | 3,848,926.40            |
| 25.10.02.40           | Zone 2 Filter                        |                            | 37,900.000             | CY                  | 146.77                   | 5,562,583.00            |
| 25.10.03.40           | Zone 3 Drain                         |                            | 31,000.000             | CY                  | 134.37                   | 4,165,470.00            |
| 25.10.09.00           | Zone 7a Bedding                      |                            | 8,940.000              | CY                  | 22.73                    | 203,206.20              |
| 25.10.10.00           | Zone 7B Riprap                       |                            | 27,460.000             | CY                  | 22.73                    | 624,165.80              |
| 25.10.06.20           | Zone 8 Coarse Filter                 |                            | 13,400.000             | CY                  | 141.92                   | 1,901,728.00            |
| 25.10.08.00           | Zone 9 Random Shell                  |                            | 834,552.000            | CY                  | 8.95                     | 7,469,240.40            |
| 25.10.11.00           | Groin Protection                     |                            | 2,190.000              | CY                  | 67.80                    | 148,482.00              |
| Embankment            |                                      |                            |                        |                     |                          | \$23,923,801.80         |
|                       | RIM GROUTING                         |                            | 0.000                  |                     |                          |                         |
|                       | Rim Grouting                         |                            | 18,700.000             | LF                  | 200.00                   | 3,740,000.00            |
| Rim Grouting          |                                      |                            |                        |                     |                          | \$3,740,000.00          |
| 25.14.00.00           | SPILLWAY                             |                            | 0.000                  |                     |                          |                         |

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 SITES30-1 SITES Reservoir 30% OPCC update qtys  
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**BID TOTALS**

| <u>Biditem</u>                  | <u>Description</u>                                 | <u>Status - Rnd</u> | <u>Quantity</u> | <u>Units</u> | <u>Unit Price</u> | <u>Bid Total</u> |
|---------------------------------|----------------------------------------------------|---------------------|-----------------|--------------|-------------------|------------------|
| 25.14.01.00                     | Spillway Approach Channel Excavation               |                     | 25,080.000      | CY           | 47.75             | 1,197,570.00     |
| 25.14.02.00                     | Spillway and Stilling Basin Slab, reinforced concr |                     | 1,038.000       | CY           | 1,381.48          | 1,433,976.24     |
|                                 | Baffles                                            |                     | 11.000          | CY           | 1,483.74          | 16,321.14        |
|                                 | Cutoff Walls                                       |                     | 147.000         | CY           | 1,534.44          | 225,562.68       |
| 25.14.03.00                     | Spillway Chute and Stilling Basin Walls            |                     | 585.000         | CY           | 2,028.66          | 1,186,766.10     |
|                                 | Wing Walls                                         |                     | 1,489.000       |              | 2,224.64          | 3,312,488.96     |
| 25.14.04.00                     | Spillway Ogee Weir                                 |                     | 329.000         | CY           | 673.36            | 221,535.44       |
| 25.14.06.00                     | Backfill at Spillway                               |                     | 2,180.000       | CY           | 69.98             | 152,556.40       |
| 25.14.07.00                     | Riprap and Bedding at Spillway                     |                     | 115.000         | CY           | 67.80             | 7,797.00         |
| 25.14.08.00                     | Drainage Rock                                      |                     | 41.000          | CY           | 67.80             | 2,779.80         |
|                                 | Drainage Pipe                                      |                     | 357.000         | LF           | 123.78            | 44,189.46        |
| Spillway                        |                                                    |                     |                 |              |                   | \$7,801,543.22   |
| Minor Saddle Dams               |                                                    |                     |                 |              |                   | \$77,374,858.25  |
| 25.15.00.00                     | ALLOWANCE FOR ITEMS NOT LISTED                     |                     | 0.000           |              |                   |                  |
| 25.15.01.00                     | Allowance for Items not Listed                     |                     | 1.000           | LS           | 3,868,800.00      | 3,868,800.00     |
| Allowance flor Items not Listed |                                                    |                     |                 |              |                   | \$3,868,800.00   |
| 26.11.00.00                     | INLET/OUTLET APPROACH CHANNEL                      |                     | 1.000           | LS           |                   |                  |
| 26.11.01.00                     | Excavation - Mass Exc                              |                     | 340,000.000     | CY           | 30.87             | 10,495,800.00    |
| 26.11.01.00                     | Rock Bolts                                         |                     | 9,500.000       | LF           | 148.57            | 1,411,415.00     |
| 26.11.03.00                     | Excavation - Str Excavation                        |                     | 266,000.000     | CY           | 35.71             | 9,498,860.00     |
| 26.11.04.00                     | Rock Bolts                                         |                     | 7,200.000       | LF           | 112.26            | 808,272.00       |
| 26.11.05.00                     | Soil Nails                                         |                     | 18,200.000      | LF           | 126.03            | 2,293,746.00     |
| 26.11.06.00                     | Shotcrete Portal Face                              |                     | 1,520.000       | CY           | 696.63            | 1,058,877.60     |
| Intake/Outlet Appr. Channel     |                                                    |                     |                 |              |                   | \$25,566,970.60  |

|                                    |                                                   |                            |                        |                     |                          |                         |
|------------------------------------|---------------------------------------------------|----------------------------|------------------------|---------------------|--------------------------|-------------------------|
| 05/21/2024                         | 6:47                                              |                            |                        |                     |                          |                         |
| SITES30-1                          | SITES Reservoir 30% OPCC update qtys              |                            |                        |                     |                          |                         |
| ***                                |                                                   |                            |                        |                     |                          |                         |
|                                    |                                                   | <b>BID TOTALS</b>          |                        |                     |                          |                         |
| <b><u>Biditem</u></b>              | <b><u>Description</u></b>                         | <b><u>Status - Rnd</u></b> | <b><u>Quantity</u></b> | <b><u>Units</u></b> | <b><u>Unit Price</u></b> | <b><u>Bid Total</u></b> |
| 26.12.00.00                        | UPSTREAM TUNNEL PORTAL AND STRUCTURE              |                            | 1.000                  | LS                  |                          |                         |
| 26.11.04.00                        | Excavation - Mass Excavation                      |                            | 340,000.000            | CY                  |                          |                         |
|                                    |                                                   |                            |                        |                     |                          |                         |
| Upstream Tunnel Portal and Str     |                                                   |                            |                        |                     |                          |                         |
|                                    |                                                   |                            |                        |                     |                          |                         |
| 26.12.00.00                        | INTAKE STR B/T SLOPING INTAKE AND TUNNEL CONCRETE |                            | 1.000                  | LS                  |                          |                         |
| 26.12.01.00                        | Concrete Encasement                               |                            | 3,040.000              | CY                  | 916.22                   | 2,785,308.80            |
| 26.12.02.00                        | Encasement Rebar                                  |                            | 40.000                 | TN                  | 423.91                   | 16,956.40               |
| 26.12.03.00                        | Piles                                             |                            | 52.000                 | CY                  | 2,474.91                 | 128,695.32              |
| 26.12.03.20                        | Piles Rebar                                       |                            | 10.000                 | TN                  | 423.91                   | 4,239.10                |
|                                    |                                                   |                            |                        |                     |                          |                         |
| Intake B/T slope Intake and Tunnel |                                                   |                            |                        |                     |                          | \$2,935,199.62          |
|                                    |                                                   |                            |                        |                     |                          |                         |
| 26.13.00.00                        | SLOPING INTAKE STRUCTURE - CONCRETE               |                            | 1.000                  | LS                  |                          |                         |
| 26.13.04.10                        | Piles                                             |                            | 210.000                | CY                  | 2,474.64                 | 519,674.40              |
| 26.13.04.20                        | Piles Rebar                                       |                            | 49.000                 | TN                  | 4,239.14                 | 207,717.86              |
| 26.13.01.10                        | Slab                                              |                            | 1,147.000              | CY                  | 957.69                   | 1,098,470.43            |
| 26.13.01.20                        | Slabs Rebar                                       |                            | 21.000                 | TN                  | 4,239.14                 | 89,021.94               |
| 26.13.02.10                        | Mass Concrete                                     |                            | 6,102.000              | CY                  | 844.49                   | 5,153,077.98            |
| 26.13.02.20                        | Mass Concrete Rebar                               |                            | 61.000                 | TN                  | 423.91                   | 25,858.51               |
| 26.13.03.10                        | Sloping Mass Concrete                             |                            | 12,420.000             | CY                  | 829.35                   | 10,300,527.00           |
| 26.13.03.20                        | Sloping Mass Concrete Rebar                       |                            | 208.000                | TN                  | 4,239.14                 | 881,741.12              |
| 26.13.03.30                        | Pipe Reinforcement                                |                            | 150.000                | TN                  | 423.91                   | 63,586.50               |
|                                    |                                                   |                            |                        |                     |                          |                         |
| Sloping Intake - Concrete          |                                                   |                            |                        |                     |                          | \$18,339,675.74         |
|                                    |                                                   |                            |                        |                     |                          |                         |
| 26.14.00.00                        | SLOPING INTAKE STRUCTURE - MECHANICAL             |                            | 1.000                  | LS                  |                          |                         |
| 26.14.01.10                        | 9' Butterfly Valves                               |                            | 2.000                  | EA                  | 1,022,602.66             | 2,045,205.32            |
| 26.14.01.20                        | 8' Butterfly Valves                               |                            | 12.000                 | EA                  | 940,561.03               | 11,286,732.36           |
| 26.14.02.00                        | Trash Racks                                       |                            | 125.000                | TN                  | 7,369.06                 | 921,132.50              |
| 26.14.03.10                        | Sloping Intake Piping                             |                            | 570.000                | TN                  | 60,491.38                | 34,480,086.60           |
| 26.14.30.20                        | Branches to Valves                                |                            | 152.000                | TN                  | 18,602.32                | 2,827,552.64            |
| 26.14.03.30                        | Bifurcation Piping                                |                            | 221.000                | TN                  | 18,461.61                | 4,080,015.81            |

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 SITES30-1 SITES Reservoir 30% OPCC update qtys  
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| BID TOTALS                     |                                      |                     |                 |              |                   |                  |
|--------------------------------|--------------------------------------|---------------------|-----------------|--------------|-------------------|------------------|
| <u>Biditem</u>                 | <u>Description</u>                   | <u>Status - Rnd</u> | <u>Quantity</u> | <u>Units</u> | <u>Unit Price</u> | <u>Bid Total</u> |
| 26.14.03.40                    | Air Vent Piping                      |                     | 8.000           | TN           | 2,455.49          | 19,643.92        |
| Sloping Intake Str. Mechanical |                                      |                     |                 |              |                   | \$55,660,369.15  |
| 26.15.00.00                    | DOWNSTREAM PORTAL                    |                     | 1.000           | LS           |                   |                  |
| 26.15.01.00                    | Excavation - Structural Excavation   |                     | 131,000.000     | CY           | 29.12             | 3,814,720.00     |
| 26.15.02.00                    | Rock Bolts                           |                     | 1,400.000       | LF           | 113.35            | 158,690.00       |
| 26.15.03.00                    | Passive Anchors                      |                     | 152,000.000     | LF           | 126.67            | 19,253,840.00    |
| 26.15.04.00                    | Shotcrete Portal Face                |                     | 2,550.000       | CY           | 696.63            | 1,776,406.50     |
| Downstream Portal              |                                      |                     |                 |              |                   | \$25,003,656.50  |
| 26.16.00.00                    | CONTROL HOUSE                        |                     | 1.000           | LS           |                   |                  |
| 26.16.01.10                    | Building                             |                     | 450.000         | SF           | 750.00            | 337,500.00       |
| 26.16.01.20                    | HPU Unit                             |                     | 1.000           | LS           | 1,000,000.00      | 1,000,000.00     |
| 26.16.01.30                    | Controls                             |                     | 1.000           | LS           | 300,000.00        | 300,000.00       |
| Control House                  |                                      |                     |                 |              |                   | \$1,637,500.00   |
| 26.17.00.00                    | I-O TUNNEL                           |                     | 1.000           | LS           |                   |                  |
| 26.17.01.10                    | Pre-Excavation Drilling and Grouting |                     | 36,000.000      | LF           | 63.35             | 2,280,600.00     |
| 26.17.01.20                    | Excavation                           |                     | 62,650.000      | CY           | 705.47            | 44,197,695.50    |
| 26.17.01.30                    | Excavation Support - Steel Sets      |                     | 316.000         | EA           | 2,881.46          | 910,541.36       |
| 26.17.01.40                    | Excavation Support - Rock Anchors    |                     | 36,985.000      | LF           | 117.39            | 4,341,669.15     |
| 26.17.04.50                    | Floor - Mud Mat                      |                     | 1,353.000       | CY           | 521.50            | 705,589.50       |
| 26.17.01.60                    | Shotcrete                            |                     | 4,823.000       | CY           | 696.63            | 3,359,846.49     |
| 26.17.01.70                    | Steel Pipe                           |                     | 5,524.000       | TN           | 9,703.26          | 53,600,808.24    |
| 26.17.01.80                    | LDCC Fill                            |                     | 23,502.000      | CY           | 967.10            | 22,728,784.20    |
| 26.17.01.90                    | Concrete Fill                        |                     | 691.000         | CY           | 595.36            | 411,393.76       |
| 26.17.01.100                   | Rebar for Concrete Encasement        |                     | 35.000          | TN           | 4,239.14          | 148,369.90       |
| I/O Tunnel                     |                                      |                     |                 |              |                   | \$132,685,298.10 |

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SITES Reservoir 30% OPCC update qtys

| BID TOTALS     |                                |                     |                 |              |                   |                    |
|----------------|--------------------------------|---------------------|-----------------|--------------|-------------------|--------------------|
| <u>Biditem</u> | <u>Description</u>             | <u>Status - Rnd</u> | <u>Quantity</u> | <u>Units</u> | <u>Unit Price</u> | <u>Bid Total</u>   |
|                |                                |                     | I/O Str         |              |                   | \$261,828,669.71   |
|                |                                |                     |                 |              |                   |                    |
| 26.18.00.00    | ALLOWANCE FOR ITEMS NOT LISTED |                     | 0.000           |              |                   |                    |
| 26.18.01.00    | Allowance for Items not Listed |                     | 1.000           | LS           | 11,770,900.00     | 11,770,900.00      |
|                |                                |                     |                 |              |                   |                    |
|                |                                |                     | Bid Total       | =====>       |                   | \$1,186,571,304.56 |
|                |                                |                     |                 |              |                   |                    |

## Appendix B Labor Rates

X. Labor Rates

| ID   | Description                       | Base Hourly Rate |                 |                     |                | Subsistence | Payroll Cost           |                    |         |                         |                         |                         | Total Hourly Rate (ST) | Total Hourly Rate (OT) | Total Hourly Rate (DT) |
|------|-----------------------------------|------------------|-----------------|---------------------|----------------|-------------|------------------------|--------------------|---------|-------------------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|
|      |                                   | Staff Hour Wage  | Craft Hour Wage | Hour Fringe Benefit | Base Hour Rate |             | Workers Compensation % | Payroll Overhead % | Total % | Total Payroll Cost (ST) | Total Payroll Cost (OT) | Total Payroll Cost (DT) |                        |                        |                        |
|      | Craft                             |                  |                 |                     |                |             |                        |                    |         |                         |                         |                         |                        |                        |                        |
| FM   | Foreman                           |                  | \$80.00         | \$35.00             | \$115.00       | \$20.00     | 8.0%                   | 17.85%             | 26%     | \$25.83                 | \$36.16                 | \$46.49                 | \$160.83               | \$211.16               | \$261.49               |
| CP   | Carpenter                         |                  | \$62.41         | \$33.81             | \$96.22        | \$12.50     | 9.4%                   | 17.85%             | 27%     | \$20.41                 | \$28.91                 | \$37.42                 | \$129.13               | \$168.83               | \$208.54               |
| EL   | Electrician                       |                  | \$51.28         | \$37.09             | \$88.37        | \$12.50     | 4.1%                   | 17.85%             | 22%     | \$14.00                 | \$19.63                 | \$25.25                 | \$114.86               | \$146.13               | \$177.39               |
| PT   | Painter                           |                  | \$44.68         | \$22.46             | \$67.14        | \$12.50     | 8.7%                   | 17.85%             | 27%     | \$15.18                 | \$21.11                 | \$27.04                 | \$94.82                | \$123.09               | \$151.36               |
| DO   | Dredge Operator                   |                  | \$63.57         | \$39.47             | \$103.04       | \$12.50     | 6.5%                   | 17.85%             | 24%     | \$18.52                 | \$26.26                 | \$34.00                 | \$134.06               | \$173.59               | \$213.11               |
| EO1  | Equipment Operator Heavy - 1/2/3  |                  | \$65.72         | \$32.93             | \$98.65        | \$12.50     | 6.3%                   | 17.85%             | 24%     | \$18.89                 | \$26.83                 | \$34.76                 | \$130.04               | \$170.84               | \$211.63               |
| EO2  | Equipment Operator Medium - 4/5/6 |                  | \$61.33         | \$32.93             | \$94.26        | \$12.50     | 6.3%                   | 17.85%             | 24%     | \$17.83                 | \$25.24                 | \$32.64                 | \$124.59               | \$162.66               | \$200.73               |
| EO3  | Equipment Operator Light - 7/8/8A |                  | \$57.60         | \$32.93             | \$90.53        | \$12.50     | 6.3%                   | 17.85%             | 24%     | \$16.93                 | \$23.88                 | \$30.84                 | \$119.96               | \$155.71               | \$191.47               |
| CO1  | Equipment Operator Crane - 1/1A   |                  | \$67.35         | \$32.93             | \$100.28       | \$12.50     | 6.3%                   | 17.85%             | 24%     | \$19.28                 | \$27.42                 | \$35.55                 | \$132.06               | \$173.87               | \$215.68               |
| CO2  | Equipment Operator Crane - 2/3/4  |                  | \$63.10         | \$32.93             | \$96.03        | \$12.50     | 6.3%                   | 17.85%             | 24%     | \$18.26                 | \$25.88                 | \$33.50                 | \$126.79               | \$165.96               | \$205.13               |
| O/R  | Oiler / Rigger                    |                  | \$53.61         | \$39.47             | \$93.08        | \$12.50     | 6.3%                   | 17.85%             | 24%     | \$15.96                 | \$22.44                 | \$28.91                 | \$121.54               | \$154.81               | \$188.09               |
| WLD  | Welder                            |                  | \$51.98         | \$39.51             | \$91.48        | \$12.50     | 11.5%                  | 17.85%             | 29%     | \$18.92                 | \$26.55                 | \$34.18                 | \$122.91               | \$156.52               | \$190.14               |
| MCH  | Mechanic - Group 3                |                  | \$68.71         | \$32.93             | \$101.64       | \$12.50     | 6.3%                   | 17.85%             | 24%     | \$19.61                 | \$27.91                 | \$36.21                 | \$133.75               | \$176.40               | \$219.06               |
| LAB  | Laborer                           |                  | \$37.70         | \$28.56             | \$66.26        | \$12.50     | 9.4%                   | 17.85%             | 27%     | \$13.68                 | \$18.82                 | \$23.95                 | \$92.44                | \$116.43               | \$140.41               |
| LABT | Laborer Tunnel, Shaft             |                  | \$47.39         | \$29.02             | \$76.41        | \$12.50     | 11.5%                  | 17.85%             | 29%     | \$17.58                 | \$24.53                 | \$31.49                 | \$106.49               | \$137.14               | \$167.79               |
| CM   | Cement Mason                      |                  | \$48.35         | \$28.71             | \$77.06        | \$12.50     | 6.8%                   | 17.85%             | 25%     | \$15.00                 | \$20.96                 | \$26.92                 | \$104.56               | \$134.69               | \$164.83               |
| TMR  | Truck Driver - All                |                  | \$41.93         | \$33.29             | \$75.22        | \$12.50     | 9.9%                   | 17.85%             | 28%     | \$15.10                 | \$20.92                 | \$26.74                 | \$102.82               | \$129.61               | \$156.39               |
| IW   | Iron Worker                       |                  | \$48.70         | \$34.81             | \$83.51        | \$12.50     | 11.5%                  | 17.85%             | 29%     | \$17.96                 | \$25.11                 | \$32.26                 | \$113.97               | \$145.46               | \$176.96               |
| PD   | Piledriver                        |                  | \$64.44         | \$32.93             | \$97.37        | \$12.50     | 8.7%                   | 17.85%             | 27%     | \$20.43                 | \$28.98                 | \$37.54                 | \$130.30               | \$171.07               | \$211.85               |
| GC   | Grade Checker / Dump Man          |                  | \$61.33         | \$32.93             | \$94.26        | \$12.50     | 8.7%                   | 17.85%             | 27%     | \$19.60                 | \$27.74                 | \$35.88                 | \$126.36               | \$165.17               | \$203.97               |
| PF   | Pipefitters                       |                  | \$48.25         | \$44.21             | \$92.46        | \$12.50     | 8.7%                   | 17.85%             | 27%     | \$16.13                 | \$22.53                 | \$28.94                 | \$121.09               | \$151.62               | \$182.15               |

Notes:

a Source for contractor management base hour rates, AECOM estimate.

b Basis for crafts base hour rate and fringe benefits: California Director of Industrial Relations

c No adjustment for location

d Source for contractor management workers compensation rate, AECOM estimate.

e Source for crafts workers compensation rate: RS Means Workers Compensation Tables 2023

f Craft labor rates assume the following percentage of benefits are subject to PT&I

g Subsistence Per Day - Max

\$200.000%

h Effective Subsistence Rate on Tiered System

\$125

i Craft labor rates assume the following percentage of Subsistence is subject to PT&I

100%

| Tier           | Breakdown | Subsistence | Weighted |
|----------------|-----------|-------------|----------|
| Tier 1         | 25%       | \$200       | \$50     |
| Tier 2         | 50%       | \$125       | \$63     |
| Tier 3         | 25%       | \$50        | \$13     |
| Effective Rate |           |             | \$125    |

|                                             |        |        |
|---------------------------------------------|--------|--------|
| Payroll overhead for contractor management: |        |        |
| Fringe Benefits (Health, Welfare, Vacation) | 30.00% |        |
| Social Security Taxes                       | 7.65%  |        |
| Federal and State Unemployment Cost         | 6.50%  |        |
| Insurance for Contractor Operations         | 1.00%  |        |
| Safety and Training                         | 2.00%  |        |
| Supplies                                    | 1.00%  |        |
| Accounting                                  | 1.00%  | 49.15% |
| Payroll overhead for crafts:                |        |        |
| FICA - Social Security Taxes                | 6.20%  |        |
| FICA - Medicare Taxes                       | 1.45%  |        |
| FUTA - Federal Unemployment Cost            | 0.60%  |        |
| SUTA - State Unemployment Cost              | 3.60%  |        |
| Safety and Training                         | 2.50%  |        |
| Small Tools                                 | 2.50%  |        |
| Accounting                                  | 1.00%  | 17.85% |

## Appendix C   Equipment Rates

Equipment Rates

| ID                        | Description                      | Model Reference     | Fuel (Gal/Hr) | Ownership (\$) | Fuel Rate (\$) | Parts and Maint (\$) | Hourly Rate (\$) |
|---------------------------|----------------------------------|---------------------|---------------|----------------|----------------|----------------------|------------------|
| <b>AIR COMPRESSORS</b>    |                                  |                     |               |                |                |                      |                  |
| AC-185                    | Air Compressor 175 CFM           | P185WDO-T4F         | 2.10          | 8.56           | 11.55          | 3.71                 | 23.82            |
| AC-300                    | Air Compressor 300 CFM           | 375D                | 4.50          | 14.82          | 24.75          | 8.26                 | 47.83            |
| AC-750                    | Air Compressor 750 CFM           | HP750WCU-T4F        | 11.50         | 10.99          | 63.25          | 19.19                | 93.43            |
| AC-1070                   | Air Compressor 1070 CFM          | 1095                | 14.10         | 12.80          | 77.55          | 22.93                | 113.28           |
|                           | Not Used                         |                     |               |                |                |                      | 0.00             |
|                           | Not Used                         |                     |               |                |                |                      | 0.00             |
| <b>AIR TOOLS</b>          |                                  |                     |               |                |                |                      |                  |
| 13                        | Air Hose 1.53" x 100'            | 3618-0041           |               | 1.15           |                | 2.35                 | 3.50             |
| 14                        | Air Hose 3" x 100'               | 3618-0215           |               | 2.45           |                | 4.97                 | 7.42             |
| 15                        | Rotary Chip Hammer 60 LB         |                     |               |                |                |                      | 1.37             |
| 16                        | Sand Blaster 700 CF              |                     |               |                |                |                      | 13.91            |
| 17                        | Pavement Breaker 80 LB           |                     |               |                |                |                      | 1.54             |
| 18                        | Rock Drill 55 LB                 | CP-0069             |               | 0.43           |                | 1.10                 | 1.53             |
| 19                        | Not Used                         |                     |               |                |                |                      | 0.00             |
| 20                        | Not Used                         |                     |               |                |                |                      | 0.00             |
| <b>BATCH PLANTS</b>       |                                  |                     |               |                |                |                      |                  |
| 22                        | Batch Plant 65 Ton               |                     |               |                |                |                      | 166.52           |
| 23                        | Batch Plant Silo 1,200 CF        | MT-300LP            | 1.30          | 8.32           | 7.15           | 15.20                | 30.67            |
| 24                        | Batch Plant Screw Conveyor       | SC9D-20             | 0.50          | 1.10           | 2.75           | 2.88                 | 6.73             |
| 25                        | Not Used                         |                     |               |                |                |                      | 0.00             |
| 26                        | Not Used                         |                     |               |                |                |                      | 0.00             |
|                           |                                  |                     |               |                |                |                      | 0.00             |
|                           | Dry Batch Plant 100 CY/LD        |                     |               |                |                |                      | 0.00             |
|                           | Grout Mixer                      |                     |               |                |                |                      | 0.00             |
|                           | Silo 2000 BBL                    |                     |               |                |                |                      | 0.00             |
|                           | Silo 5000 BBL                    |                     |               |                |                |                      | 0.00             |
|                           | Batch Plant w/1 Mixer            |                     |               |                |                |                      | 0.00             |
|                           | Batch Plant w/2 Mixers           |                     |               |                |                |                      | 0.00             |
| <b>BRUSH CHIPPERS</b>     |                                  |                     |               |                |                |                      |                  |
| 28                        | Brush Chippers 12 Inch           | 200XP               | 6.10          | 5.86           | 33.55          | 11.30                | 50.71            |
| 29                        | Brush Cutter Log 22 Inch         |                     |               |                |                |                      | 297.18           |
| 30                        | Not Used                         |                     |               |                |                |                      | 0.00             |
| 31                        | Not Used                         |                     |               |                |                |                      | 0.00             |
| <b>COMPACTORS</b>         |                                  |                     |               |                |                |                      |                  |
| 33                        | Vibroplate 7,500 LB              | BPU 3750A           | 0.80          | 1.85           | 4.40           | 3.35                 | 9.60             |
| 34                        | Vibroplate 9,000 LB              |                     |               |                |                |                      | 16.32            |
| 35                        | Vibroplate 15,600 LB             | DPU 6555 HEC        | 0.70          | 4.36           | 3.85           | 7.35                 | 15.56            |
| 36                        | Roller Vibratory 3,400 LB        | AR14H               | 1.10          | 5.77           | 6.05           | 10.88                | 22.70            |
| 37                        | Roller Vibratory 14,000 LB       |                     |               |                |                |                      | 36.87            |
| 38                        | Trench Roller 7-14,000 LB        | RTL 82-SC3          | 1.20          | 11.81          | 6.60           | 21.80                | 40.21            |
| 39                        | Not Used                         |                     |               |                |                |                      | 0.00             |
| 40                        | Not Used                         |                     |               |                |                |                      | 0.00             |
| <b>CONCRETE CLEANERS</b>  |                                  |                     |               |                |                |                      |                  |
| 42                        | Blaster Cleaning System 10' Path | 1-10DSG1 & BDC66HLG | 0.30          | 12.24          | 1.65           | 19.65                | 33.54            |
| 43                        | Blaster Cleaning System 15' Path | 1-15DSG1 & BDC66HLG | 0.40          | 13.52          | 2.20           | 22.04                | 37.76            |
| 44                        | Blaster Cleaning System 20' Path | 2-20DTMKII&BDC99DBP | 0.80          | 17.16          | 4.40           | 28.45                | 50.01            |
| 45                        | Not Used                         |                     |               |                |                |                      | 0.00             |
| 46                        | Not Used                         |                     |               |                |                |                      | 0.00             |
| <b>CONCRETE FINISH</b>    |                                  |                     |               |                |                |                      |                  |
| 48                        | Vibratory Screed 12'             | 12.5' POWER SCREED  | 0.40          | 1.21           | 2.20           | 1.79                 | 5.20             |
| 49                        | Vibratory Screed 30'             | 30' POWER SCREED    | 0.70          | 2.16           | 3.85           | 3.16                 | 9.17             |
| 50                        | Vibratory Laser Screed 8'        | S-485               | 1.50          | 11.21          | 8.25           | 13.23                | 32.69            |
| 51                        | Vibratory Laser Screed 12'       |                     |               |                |                |                      | 118.05           |
| 52                        | Not Used                         |                     |               |                |                |                      | 0.00             |
| 53                        | Not Used                         |                     |               |                |                |                      | 0.00             |
| <b>CONCRETE SHOTCRETE</b> |                                  |                     |               |                |                |                      |                  |
| 55                        | Gunitite Shotcrete 2 CY          | N-2 PNEUMATIC GUN   |               | 4.38           |                | 6.83                 | 11.21            |
| 56                        | Gunitite Shotcrete 10 CY         | TK10                | 2.60          | 8.00           | 14.30          | 13.96                | 36.26            |
| 57                        | Gunitite Shotcrete 25 CY         | TK40                | 2.90          | 10.74          | 15.95          | 17.77                | 44.46            |

## Equipment Rates

| ID         | Description                                         | Model Reference      | Fuel (Gal/Hr) | Ownership (\$) | Fuel Rate (\$) | Parts and Maint (\$) | Hourly Rate (\$) |
|------------|-----------------------------------------------------|----------------------|---------------|----------------|----------------|----------------------|------------------|
| 58         | Not Used                                            |                      |               |                |                |                      | 0.00             |
| 59         | Not Used                                            |                      |               |                |                |                      | 0.00             |
|            | <b>CONCRETE MIXING</b>                              |                      |               |                |                |                      |                  |
| 61         | Stationary Mixer 12 CF                              |                      |               |                |                |                      | 9.43             |
| 62         | Stationary Mixer 5 CY                               |                      |               |                |                |                      | 19.18            |
| 63         | Stationary Mixer Tilt Drum w/ Batch Plant 12 CY     |                      |               |                |                |                      | 172.66           |
| 64         | Cement Silo                                         |                      |               |                |                |                      | 37.45            |
| 65         | Not Used                                            |                      |               |                |                |                      | 0.00             |
| 66         | Not Used                                            |                      |               |                |                |                      | 0.00             |
| 67         | Not Used                                            |                      |               |                |                |                      | 0.00             |
|            | <b>CONCRETE PUMPS</b>                               |                      |               |                |                |                      |                  |
| 69         | Concrete Pump Trailer 22 CY / Hour                  | C30HDC               | 3.50          | 5.47           | 19.25          | 9.86                 | 34.58            |
| 70         | Concrete Pump Trailer 100 CY / Hour                 | 15 95                | 7.10          | 19.38          | 39.05          | 30.81                | 89.24            |
| 71         | Concrete Pump Truck 182 CY / Hour                   | S39 SXD              | 20.70         | 113.33         | 113.85         | 170.61               | 397.79           |
| 72         | Not Used                                            |                      |               |                |                |                      | 0.00             |
| 73         | Not Used                                            |                      |               |                |                |                      | 0.00             |
|            | <b>CONCRETE TOOLS</b>                               |                      |               |                |                |                      |                  |
| 75         | Concrete Saw 4.5" Depth                             | K1270                | 0.80          | 0.42           | 4.40           | 1.09                 | 5.91             |
| 76         | Concrete Saw 15" Depth                              | FS 7000 D 36         | 4.60          | 8.99           | 25.30          | 15.99                | 50.28            |
| 77         | Concrete Saw 24" Depth                              | WS482HF &PP490       | 0.90          | 17.33          | 4.95           | 26.24                | 48.52            |
| 78         | Concrete Vibrator 1.375 Head                        | CV1A                 | 0.00          | 0.26           |                | 0.99                 | 1.25             |
| 79         | Concrete Vibrator 2.175 Head                        | CV2A                 | 0.00          | 0.30           |                | 1.15                 | 1.45             |
| 80         | Concrete Vibrator 2.325 Head                        | G55H                 | 0.40          | 0.50           | 2.20           | 2.04                 | 4.74             |
| 81         | Not Used                                            |                      |               |                |                |                      | 0.00             |
| 82         | Not Used                                            |                      |               |                |                |                      | 0.00             |
|            | <b>CRANES HYDRAULIC</b>                             |                      |               |                |                |                      |                  |
| CRH - 10   | Crane Hydraulic Self Propelled 10 Ton               | IC-80-1J             | 3.20          | 13.32          | 17.60          | 17.27                | 48.19            |
| CRH - 25   | Crane Hydraulic Self Propelled 25 Ton               | IC-400-3A            | 6.90          | 30.26          | 37.95          | 41.09                | 109.30           |
| CRH - 40   | Crane Hydraulic Self Propelled 40 Ton               | RTC 8050 SERIES II   | 8.40          | 44.94          | 46.20          | 64.17                | 155.31           |
| CRH - 70   | Crane Hydraulic Self Propelled 70 Ton               | TCC 750              | 9.30          | 74.18          | 51.15          | 87.87                | 213.20           |
| CRH - 100  | Crane Hydraulic Self Propelled 100 Ton              | RTC 80110 SERIES II  | 14.90         | 89.27          | 81.95          | 127.80               | 299.02           |
| CRT - 70   | Crane Hydraulic Truck Mount 70 Ton                  | ATF 70G-4            | 7.90          | 58.78          | 43.45          | 81.68                | 183.91           |
| CRT - 125  | Crane Hydraulic Truck Mount 125 Ton                 | HTC 3140 LB          | 21.60         | 87.29          | 118.80         | 120.78               | 326.87           |
| CRT - 165  | Crane Hydraulic Truck Mount 165 Ton                 |                      | 18.10         | 123.92         | 99.55          | 170.01               | 393.48           |
| CRT - 200  | Crane Hydraulic Truck Mount 200 Ton                 | GMK6300L             | 14.60         | 160.55         | 80.30          | 219.22               | 460.07           |
|            |                                                     |                      |               |                |                |                      | 0.00             |
|            |                                                     |                      |               |                |                |                      | 0.00             |
|            | <b>CRANES CRAWLER</b>                               |                      |               |                |                |                      |                  |
| CRC - 80   | Crane Mechanical Crawler 80 Ton                     | CK850G               | 6.50          | 39.41          | 35.75          | 47.92                | 123.08           |
| CRC - 100  | Crane Mechanical Crawler 100 Ton                    | CK1100G              | 6.50          | 49.22          | 35.75          | 59.16                | 144.13           |
| CRC - 150  | Crane Mechanical Crawler 150 Ton                    | 238 HSL              | 8.40          | 85.78          | 46.20          | 120.29               | 252.27           |
| CRC - 200  | Crane Mechanical Crawler 200 Ton                    | 248 HSL              | 6.20          | 100.60         | 34.10          | 130.37               | 265.07           |
| CRC - 250  | Crane Mechanical Crawler 250 Ton                    | CK2750G              | 8.30          | 99.37          | 45.65          | 129.82               | 274.84           |
| CRC - 300  | Crane Mechanical Crawler 300 Ton                    | 348 HYLAB 5          | 8.30          | 132.66         | 45.65          | 172.03               | 350.34           |
|            |                                                     |                      |               |                |                |                      | 0.00             |
|            | <b>CRANES TOWER</b>                                 |                      |               |                |                |                      |                  |
| 97         | Crane Tower 9 Ton, 168' Radius                      | 316 EC-H 12 LITRONIC | 3.60          | 60.71          | 19.80          | 87.63                | 168.14           |
| 98         | Crane Tower 17 Ton, 246' Radius                     | 550 EC-H20LITRONIC   | 3.60          | 99.89          | 19.80          | 135.30               | 254.99           |
| 99         | Crane Tower 26 Ton, 197' Radius                     | 542 CH-L18/36 LITRO  | 5.20          | 140.41         | 28.60          | 191.67               | 360.68           |
| 100        | Not Used                                            |                      |               |                |                |                      | 0.00             |
| 101        | Not Used                                            |                      |               |                |                |                      | 0.00             |
|            | <b>DRILLS</b>                                       |                      |               |                |                |                      |                  |
| DR - 2-3   | Air Track Crawler 2.5 - 3" Add 750 CFM Compressor   | AIRROC D40           |               | 7.49           |                | 11.39                | 18.88            |
| DR - 3-4   | Air Track Crawler 3.0 - 4.0" Add 900 CFM Compressor | AIRROC D50           |               | 11.94          |                | 18.14                | 30.08            |
| DRSC - 2-4 | Air Track Crawler - 2.5"-4.5" - Self Contained      | T450GT               | 26.40         | 89.45          | 145.20         | 150.44               | 385.09           |
| DRSC - 4-5 | Air Track Crawler - 3.5"-5.5" - Self Contained      | T685EX               | 41.30         | 129.16         | 227.15         | 218.91               | 575.22           |
| DRB - 4-12 | Rotary Blasthole 4"-12"                             |                      |               |                |                |                      | 234.53           |
| DRB - 6-18 | Rotary Blasthole 6" to 18" Truck Mounted            | TH60DH               | 32.70         | 67.63          | 179.85         | 119.41               | 366.89           |
| DRB - 6-18 | Rotary Blasthole 6"-24" Truck Mounted               | T3WDH                | 20.70         | 69.53          | 113.85         | 114.61               | 297.99           |
| 110        | Not Used                                            |                      |               |                |                |                      | 0.00             |
|            | <b>FORK LIFTS</b>                                   |                      |               |                |                |                      |                  |
| FL - 6000  | Rough Terrain 6,000 LB                              | 930                  | 2.80          | 9.22           | 15.40          | 13.76                | 38.38            |
| FL - 8000  | Rough Terrain 8,000 LB                              | 940                  | 2.80          | 10.21          | 15.40          | 14.91                | 40.52            |
| 114        | Not Used                                            |                      |               |                |                |                      | 0.00             |

## Equipment Rates

| ID          | Description                                     | Model Reference    | Fuel (Gal/Hr) | Ownership (\$) | Fuel Rate (\$) | Parts and Maint (\$) | Hourly Rate (\$) |
|-------------|-------------------------------------------------|--------------------|---------------|----------------|----------------|----------------------|------------------|
| 115         | Not Used                                        |                    |               |                |                |                      | 0.00             |
|             | <b>GENERATOR SETS</b>                           |                    |               |                |                |                      |                  |
| GS-275      | Generator Set Skid Mount 275 EKW                | C9 250KW           | 17.90         | 9.23           | 98.45          | 17.33                | 125.01           |
| GS-550      | Generator Set Skid Mount 545 EKW                | C18                | 35.30         | 15.68          | 194.15         | 31.81                | 241.64           |
| GS-1000     | Generator Set Skid Mount 1,000 EKW              | 1017D              | 62.90         | 26.71          | 345.95         | 55.48                | 428.14           |
| GS-1600     | Generator Set Skid Mount 1,600 EKW              |                    |               |                |                |                      | 510.86           |
| 121         | Not Used                                        |                    |               |                |                |                      | 0.00             |
| 122         | Not Used                                        |                    |               |                |                |                      | 0.00             |
|             | <b>GRADER MOTOR</b>                             |                    |               | 200%           |                |                      |                  |
| MG-120      | Grader Motor Articulated w/ Scarifier 140 HP    | 120M2 AWD          | 6.20          | 46.02          | 34.10          | 43.62                | 123.74           |
| MG-140      | Grader Motor Articulated w/ Shank Ripper 215 HP | 140M3 AWD          | 6.20          | 57.18          | 34.10          | 51.37                | 142.65           |
| MG-160      | Grader Motor Articulated w/ Shank Ripper 275 HP | 160M3 AWD          | 7.40          | 98.52          | 40.70          | 60.44                | 199.66           |
| 127         | Not Used                                        |                    |               |                |                |                      | 0.00             |
| 128         | Not Used                                        |                    |               |                |                |                      | 0.00             |
|             | <b>HAMMER DEMO</b>                              |                    |               |                |                |                      |                  |
| 130         | Hammer Hydraulic 200 FT-LB                      | PH-07              |               | 1.37           |                | 2.94                 | 4.31             |
| 131         | Hammer Hydraulic 500 FT-LB                      | PH-2               |               | 1.93           |                | 4.22                 | 6.15             |
| 132         | Hammer Hydraulic 2,000 FT-LB                    | GH6                |               | 7.33           |                | 13.51                | 20.84            |
| 133         | Hammer Hydraulic 5,500 FT-LB                    | GH12               |               | 15.17          |                | 25.66                | 40.83            |
| 134         | Hammer Hydraulic 20,000 FT-LB                   |                    |               |                |                |                      | 176.01           |
| 135         | Not Used                                        |                    |               |                |                |                      | 0.00             |
| 136         | Not Used                                        |                    |               |                |                |                      | 0.00             |
|             | <b>HOISTS AND WINCHES</b>                       |                    |               |                |                |                      |                  |
| 138         | Air Winch 5,000 LB                              | FA2.5i             |               | 4.30           |                | 5.50                 | 9.80             |
| 139         | Air Winch 10,000 LB                             | FA5i               |               | 5.66           |                | 7.28                 | 12.94            |
| 140         | Air Winch 22000 LB                              | FA10i              |               | 8.57           |                | 10.97                | 19.54            |
| 141         | Not Used                                        |                    |               |                |                |                      | 0.00             |
| 142         | Not Used                                        |                    |               |                |                |                      | 0.00             |
|             | <b>HYDRAULIC EXCAVATORS</b>                     |                    |               | 400%           |                |                      |                  |
| EX-320      | Crawler Mounted Hydraulic Excavator 1.5 CY      | 320                | 6.50          | 69.68          | 35.75          | 30.66                | 136.09           |
| EX-336      | Crawler Mounted Hydraulic Excavator 2.75 CY     | 336                | 5.50          | 108.68         | 30.25          | 44.65                | 183.58           |
| EX-349      | Crawler Mounted Hydraulic Excavator 4.05 CY     | 349                | 15.80         | 117.88         | 86.90          | 58.53                | 263.31           |
| EX-374      | Crawler Mounted Hydraulic Excavator 5 CY        | 374                | 13.70         | 160.40         | 75.35          | 77.95                | 313.70           |
| EX-390      | Crawler Mounted Hydraulic Excavator 6 CY        | 390                | 19.50         | 224.60         | 107.25         | 115.86               | 447.71           |
| EX-395      | Crawler Mounted Hydraulic Excavator 8.5 CY      | 395                | 24.00         | 276.80         | 132.00         | 142.78               | 551.58           |
|             |                                                 |                    |               |                |                |                      | 0.00             |
|             |                                                 |                    |               |                |                |                      | 0.00             |
|             | <b>HYDRAULIC SHOVEL</b>                         |                    |               | 200%           |                |                      |                  |
| EX-EX1200-7 | Crawler Mounted Hydraulic Shovel 8.5 CY         | EX1200-7 / 6015    | 28.30         | 222.28         | 155.65         | 241.61               | 619.54           |
| EX-EX1900-6 | Crawler Mounted Hydraulic Shovel 15 CY          | EX1900-6 / 6020    | 40.40         | 316.18         | 222.20         | 342.91               | 881.29           |
| 151         | Crawler Mounted Hydraulic Shovel 21 CY          |                    |               |                |                |                      | 962.22           |
| 152         | Crawler Mounted Hydraulic Shovel 37 CY          |                    |               |                |                |                      | 1787.37          |
| 153         | Not Used                                        |                    |               |                |                |                      | 0.00             |
| 154         | Not Used                                        |                    |               |                |                |                      | 0.00             |
|             | <b>LAND CLEARING</b>                            |                    |               |                |                |                      |                  |
| 156         | Land Clearing Stumper 16"                       |                    |               |                |                |                      | 13.72            |
| 157         | Land Clearing Stumper 25"                       |                    |               |                |                |                      | 26.12            |
| 158         | Land Clearing Tree Spade 44"                    |                    |               |                |                |                      | 18.70            |
| 159         | Not Used                                        |                    |               |                |                |                      | 0.00             |
| 160         | Not Used                                        |                    |               |                |                |                      | 0.00             |
|             | <b>LANDSCAPING</b>                              |                    |               |                |                |                      |                  |
| 162         | Lawnmower 54"                                   | 74472              | 2.10          | 1.63           | 11.55          | 1.44                 | 14.62            |
| 163         | Not Used                                        |                    |               |                |                |                      | 0.00             |
| 164         | Not Used                                        |                    |               |                |                |                      | 0.00             |
|             | <b>LIGHTING</b>                                 |                    |               |                |                |                      |                  |
| 166         | Lite Set, Trailer Mounted 4/1250W, 6KW Gen.     | NIGHT LIGHT PRO II | 0.50          | 2.74           | 2.75           | 6.68                 | 12.17            |
| 167         | Lite Set, Trailer Mounted 4/1250W, 8KW Gen.     | MAXI LITE V        | 0.50          | 3.76           | 2.75           | 11.32                | 17.83            |
| 168         | Lite Set, Trailer Mounted 6/1000W, 8KW Gen.     |                    |               |                |                |                      | 14.20            |
| 169         | Not Used                                        |                    |               |                |                |                      | 0.00             |
| 170         | Not Used                                        |                    |               |                |                |                      | 0.00             |
|             | <b>LOADER BELT</b>                              |                    |               |                |                |                      |                  |
| 172         | Loader, Conveyor Belt w/ Screen and Hopper      |                    |               |                |                |                      | 60.00            |
| 173         | Not Used                                        |                    |               |                |                |                      | 0.00             |
| 174         | Not Used                                        |                    |               |                |                |                      | 0.00             |
|             | <b>LOADER FRONT END - CRAWLER</b>               |                    |               |                |                |                      |                  |
| FELC-953K   | Loader FE Standard Crawler Loader 2.4 CY        | 953K               | 7.20          | 34.51          | 39.60          | 61.41                | 135.52           |
| FELC-963K   | Loader FE Standard Crawler Loader 3.7 CY        | 963K               | 9.10          | 41.15          | 50.05          | 73.48                | 164.68           |
| FELC-973K   | Loader FE Standard Crawler Loader 4.2 CY        | 973K               | 12.60         | 64.28          | 69.30          | 114.03               | 247.61           |
|             |                                                 |                    |               |                |                |                      | 0.00             |
|             |                                                 |                    |               |                |                |                      | 0.00             |
|             | <b>LOADER FRONT END - WHEELED</b>               |                    |               | 200%           |                |                      |                  |
| FELA-950M   | Loader FE 4-WD Articulated Wheel Loader 4.5 CY  | 950M               | 9.30          | 62.04          | 51.15          | 58.05                | 171.24           |

## Equipment Rates

| ID         | Description                                        | Model Reference   | Fuel (Gal/Hr) | Ownership (\$) | Fuel Rate (\$) | Parts and Maint (\$) | Hourly Rate (\$) |
|------------|----------------------------------------------------|-------------------|---------------|----------------|----------------|----------------------|------------------|
| FELA-966M  | Loader FE 4-WD Articulated Wheel Loader 5.5 CY     | 966M              | 11.10         | 69.26          | 61.05          | 77.75                | 208.06           |
| FELA-972 M | Loader FE 4-WD Articulated Wheel Loader 7 CY       | 972 M             | 11.60         | 71.00          | 63.80          | 78.85                | 213.65           |
| FELA-982M  | Loader FE 4-WD Articulated Wheel Loader 9.5 CY     | 982M              | 16.20         | 92.22          | 89.10          | 93.99                | 275.31           |
| FELA-988K  | Loader FE 4-WD Articulated Wheel Loader 11 CY      | 988K              | 21.60         | 125.68         | 118.80         | 136.22               | 380.70           |
| FELA-990k  | Loader FE 4-WD Articulated Wheel Loader 13 CY      | 990k              | 28.00         | 206.40         | 154.00         | 227.44               | 587.84           |
| FELA-992k  | Loader FE 4-WD Articulated Wheel Loader 16 CY      | 992k              | 32.00         | 235.89         | 176.00         | 259.94               | 671.83           |
| 184        | Not Used                                           |                   |               |                |                |                      | 0.00             |
| 185        | Not Used                                           |                   |               |                |                |                      | 0.00             |
|            | <b>LOADER BACKHOE</b>                              |                   |               | <b>200%</b>    |                |                      |                  |
| FELB-400   | Loader Backhoe Wheel 1 CY                          | 400               |               |                |                |                      | 36.00            |
| FELB-416   | Loader Backhoe Wheel 1.5 CY                        | 416F2             | 2.70          | 21.88          | 14.85          | 23.55                | 60.28            |
| FELB-440   | Loader Backhoe Wheel 2 CY                          | 440               | 3.40          | 32.54          | 18.70          | 33.31                | 84.55            |
| 189        | Not Used                                           |                   |               |                |                |                      | 0.00             |
| 190        | Not Used                                           |                   |               |                |                |                      | 0.00             |
|            | <b>PILE HAMMER</b>                                 |                   |               |                |                |                      |                  |
| 203        | Pile Extractor 40 Ton                              | HVR60             |               | 8.59           |                | 13.49                | 22.08            |
| 204        | Pile Extractor 150 Ton                             | 44 HS             | 21.40         | 68.34          | 117.70         | 120.61               | 306.65           |
| 205        | Pile Hammer Single Act. Diesel 10,500 FT-LB        | D6-42             | 0.80          | 4.73           | 4.40           | 9.81                 | 18.94            |
| 206        | Pile Hammer Single Act. Diesel 42,800 FT-LB        | D19-42            | 2.50          | 7.12           | 13.75          | 16.34                | 37.21            |
| 207        | Pile Hammer Single Act. Diesel 69,800 FT-LB        | D30-32            | 4.40          | 12.43          | 24.20          | 28.87                | 65.50            |
| 208        | Pile Hammer Single Act. Diesel 165,000 FT-LB       | D62-22            | 9.30          | 22.61          | 51.15          | 47.87                | 121.63           |
| 209        | Pile Hammer Single Act. Diesel 225,000 FT-LB       | D80-23            | 10.80         | 34.91          | 59.40          | 69.76                | 164.07           |
| 210        | Pile Hammer Single Act. Diesel 300,000 FT-LB       | D100-23           | 13.50         | 43.28          | 74.25          | 86.24                | 203.77           |
| 211        | Pile Hammer Driver Extractor 53 Ton                | HVR100            |               | 13.42          |                | 21.06                | 34.48            |
| 212        | Pile Hammer Driver Extractor 98 Ton                | V22 W/ HP365      | 13.60         | 40.88          | 74.80          | 72.63                | 188.31           |
| 213        | Pile Hammer Driver Extractor 200 Ton               | V52 W/HP700       | 26.00         | 67.81          | 143.00         | 122.70               | 333.51           |
| 214        | Not Used                                           |                   |               |                |                |                      | 0.00             |
| 215        | Not Used                                           |                   |               |                |                |                      | 0.00             |
|            | <b>PIPELAYER</b>                                   |                   |               |                |                |                      |                  |
| 217        | Pipelayer 20' Boom 40,000 LB                       | PL61              |               |                |                |                      | 0.00             |
| 217        | Pipelayer 20' Boom 90,000 LB                       | PL72              |               |                |                |                      | 137.11           |
|            | Pipelayer 24' Boom 170,000 LB                      | PL83              | 6.50          | 63.40          | 35.75          | 95.10                | 194.25           |
| 218        | Pipelayer 28' Boom 230,000 LB                      | PL87              | 6.60          | 75.28          | 36.30          | 112.05               | 223.63           |
| 219        | Not Used                                           |                   |               |                |                |                      | 0.00             |
| 220        | Not Used                                           |                   |               |                |                |                      | 0.00             |
|            | <b>PLATFORM MAN LIFTS</b>                          |                   |               |                |                |                      |                  |
| 222        | Man-Lift Articulated Boom 68' High Self Propelled  | Z-62/40 - 4WD     | 1.40          | 29.62          | 7.70           | 33.42                | 70.74            |
| 223        | Man-Lift Articulated Boom 131' High Self Propelled |                   |               |                |                |                      | 151.60           |
| 224        | Not Used                                           |                   |               |                |                |                      | 0.00             |
| 225        | Not Used                                           |                   |               |                |                |                      | 0.00             |
|            | <b>PUMPS GROUT</b>                                 |                   |               |                |                |                      |                  |
| 227        | Pump Grout on Skid 160 CF/HR                       | CG - 500/2C6A     |               | 2.89           |                | 4.39                 | 7.28             |
| 228        | Pump Grout on Trailer 180 CF/HR                    | NA                |               |                |                |                      | 24.55            |
| 229        | Pump Grout on Trailer 250 CF/HR                    | PG35              | 3.70          | 5.33           | 20.35          | 10.12                | 35.80            |
| 230        | Not Used                                           |                   |               |                |                |                      | 0.00             |
| 231        | Not Used                                           |                   |               |                |                |                      | 0.00             |
|            | <b>PUMPS WATER</b>                                 |                   |               |                |                |                      |                  |
| 233        | Water Pump Pressure 1"                             |                   |               |                |                |                      | 22.87            |
| 234        | Water Pump Centrifugal, Trash 8"                   | 8" DIESEL         | 3.80          | 6.96           | 20.90          | 12.63                | 40.49            |
| 235        | Water Pump Centrifugal, Trash 10"                  |                   |               |                |                |                      | 43.30            |
| 236        | Water Pump Centrifugal, Dewater 4"                 |                   |               |                |                |                      | 16.13            |
| 237        | Water Pump Centrifugal, Dewater 6"                 |                   |               |                |                |                      | 30.18            |
| 238        | Water Pump Submersible 4"                          |                   |               |                |                |                      | 15.45            |
| 239        | Water Pump Submersible 6"                          |                   |               |                |                |                      | 29.56            |
| 240        | Not Used                                           |                   |               |                |                |                      | 0.00             |
| 241        | Not Used                                           |                   |               |                |                |                      | 0.00             |
|            | <b>RIPPERS</b>                                     |                   |               |                |                |                      |                  |
| 243        | Ripper 3 Shank D7                                  | D7 RIPPER         |               | 7.57           |                | 10.54                | 18.11            |
| 244        | Ripper 3 Shank D8                                  |                   |               |                |                |                      | 26.69            |
| 245        | Ripper 3 Shank D9                                  | D9 RIPPER 3 SHANK |               | 18.04          |                | 25.13                | 43.17            |
| 246        | Ripper 1 Shank D10                                 | D10 RIPPER SHANK  |               | 1.54           |                | 2.14                 | 3.68             |
| 247        | Not Used                                           |                   |               |                |                |                      | 0.00             |
| 248        | Not Used                                           |                   |               |                |                |                      | 0.00             |
|            | <b>ROLLERS - STATIC</b>                            |                   |               |                |                |                      |                  |
| 250        | Roller Static Towed 10-20 Ton                      |                   |               |                |                |                      | 27.15            |
| 251        | Roller Static Self Propelled 14 Ton                |                   |               |                |                |                      | 49.70            |
| 252        | Roller Static Self Propelled 23 Ton                |                   |               |                |                |                      | 159.40           |
| CMP-815K   | Roller Static Self Propelled 25 Ton                | 815K              | 12.90         | 54.44          | 70.95          | 73.40                | 198.79           |
| CMP-825K   | Roller Static Self Propelled 35 Ton                | 825K              | 19.80         | 81.49          | 108.90         | 110.10               | 300.49           |
| CMP-826K   | Roller Static Self Propelled 40 Ton                | 826K              | 19.80         | 82.28          | 108.90         | 111.06               | 302.24           |
| CMP-836    | Roller Static Self Propelled 50 Ton                | 836               |               |                |                |                      | 324.79           |
|            |                                                    |                   |               |                |                |                      | 0.00             |

## Equipment Rates

| ID            | Description                                    | Model Reference               | Fuel (Gal/Hr) | Ownership (\$) | Fuel Rate (\$) | Parts and Maint (\$) | Hourly Rate (\$) |
|---------------|------------------------------------------------|-------------------------------|---------------|----------------|----------------|----------------------|------------------|
|               |                                                |                               |               |                |                |                      | 0.00             |
|               | <b>ROLLERS - VIBRATORY</b>                     | <b>CB is Dual / CS Single</b> |               |                |                |                      |                  |
| CMP-CB7 / CS  | Roller Vibratory Self Propelled 5 Ton - 54 in  | CB7 / CS34                    | 5.20          | 19.00          | 28.60          | 36.30                | 83.90            |
| CMP-CB8 / CS  | Roller Vibratory Self Propelled 8 Ton - 66 in  | CB8 / CS44                    | 5.20          | 23.41          | 28.60          | 43.99                | 96.00            |
| CMP-CB13 / CS | Roller Vibratory Self Propelled 12 Ton - 79 in | CB13 / CS56                   | 7.30          | 26.64          | 40.15          | 50.96                | 117.75           |
| CMP-CB16 / S  | Roller Vibratory Self Propelled 17 Ton - 84    | CB16 / SC84                   | 7.30          | 33.44          | 40.15          | 62.80                | 136.39           |
| 260           | Not Used                                       |                               |               |                |                |                      | 0.00             |
| 261           | Not Used                                       |                               |               |                |                |                      | 0.00             |
|               | <b>SCRAPERS</b>                                |                               |               |                |                |                      |                  |
| SCR-613       | Scraper Elevating 11 CY                        | 613                           |               |                |                |                      | 137.35           |
| SCR-623K      | Scraper Elevating 23 CY                        | 623K                          | 15.10         | 54.37          | 83.05          | 118.78               | 256.20           |
| SCR-621K      | Scraper Conventional 24 CY                     | 621K                          | 14.20         | 45.40          | 78.10          | 90.27                | 213.77           |
| SCR-631K      | Scraper Conventional 34 CY                     | 631K                          | 19.80         | 61.22          | 108.90         | 117.47               | 287.59           |
| SCR-641K      | Scraper Conventional 44 CY                     | 641K                          |               |                |                |                      | 363.56           |
| SCR-627K      | Scraper Tandem Power 24 CY                     | 627K                          | 25.10         | 53.11          | 138.05         | 113.04               | 304.20           |
| SCR-637K      | Scraper Tandem Power 34 CY                     | 637K                          | 31.00         | 90.12          | 170.50         | 167.98               | 428.60           |
| SCR-657K      | Scraper Tandem Power 44 CY                     | 657K                          | 35.10         | 104.03         | 193.05         | 202.67               | 499.75           |
| 271           | Not Used                                       |                               |               |                |                |                      | 0.00             |
| 272           | Not Used                                       |                               |               |                |                |                      | 0.00             |
|               | <b>SCREENING CRUSHING</b>                      |                               |               |                |                |                      |                  |
| 274           | Feeder Conveyor 30" x 70'                      | 12-3070                       | 0.50          | 11.12          | 2.75           | 15.07                | 28.94            |
| 275           | Feeder Conveyor 36" x 100'                     | 646816                        | 0.50          | 13.60          | 2.75           | 17.45                | 33.80            |
| 276           | Stacking Conveyor 36" x 80'                    |                               |               |                |                |                      | 19.49            |
| 277           | Stacking Conveyor Folding 30" x 125'           |                               |               |                |                |                      | 29.89            |
| 278           | Screen and Crush, Feed Conveyor 48"            |                               |               |                |                |                      | 65.05            |
| 279           | Screen and Crush, Feed Conveyor 60"            |                               |               |                |                |                      | 74.15            |
| 280           | Screen and Crush, Feed Conveyor 8 Feet         |                               |               |                |                |                      | 141.71           |
| 281           | Screen and Crush Grizzly 200 CY                |                               |               |                |                |                      | 50.61            |
| 282           | Screen and Crush Shaft Impactor 71" x 100"     |                               |               |                |                |                      | 274.39           |
| 283           | Crush, Screen, Wash Cone Impact                |                               |               |                |                |                      | 187.51           |
| 284           | Screen and Crush Cone Impact                   |                               |               |                |                |                      | 148.26           |
| 285           | Screen and Crush Jaw                           | CS2650                        | 6.50          | 29.81          | 35.75          | 31.63                | 97.19            |
| 286           | Surge Bin 25 CY                                | 1430-60-20                    | 0.70          | 21.91          | 3.85           | 24.97                | 50.73            |
| 287           | Not Used                                       |                               |               |                |                |                      | 0.00             |
| 288           | Not Used                                       |                               |               |                |                |                      | 0.00             |
|               | <b>DOZER</b>                                   |                               |               |                |                |                      |                  |
| DOZ-D5        | Standard Crawler Dozer 110 HP                  | D5                            | 4.20          | 22.60          | 23.10          | 45.84                | 91.54            |
| DOZ-D6        | Standard Crawler Dozer 185 HP                  | D6                            | 7.40          | 32.75          | 40.70          | 67.32                | 140.77           |
| DOZ-D7        | Standard Crawler Dozer w/ Ripper 240 HP        | D7                            | 11.00         | 61.09          | 60.50          | 123.73               | 245.32           |
| DOZ-D8        | Standard Crawler Dozer w/ Ripper 310 HP        | D8                            | 14.90         | 77.22          | 81.95          | 156.89               | 316.06           |
| DOZ-D9        | Standard Crawler Dozer w/ Ripper 400 HP        | D9                            | 19.10         | 106.99         | 105.05         | 216.59               | 428.63           |
| DOZ-D10       | Standard Crawler Dozer w/ Ripper 580 HP        | D10                           | 22.50         | 107.20         | 123.75         | 197.99               | 428.94           |
| DOZ-D11       | Standard Crawler Dozer w/ Ripper 850 HP        | D11                           | 31.80         | 186.94         | 174.90         | 343.04               | 704.88           |
| 299           | Not Used                                       |                               |               |                |                |                      | 0.00             |
| 300           | Not Used                                       |                               |               |                |                |                      | 0.00             |
|               | <b>TRENCHERS</b>                               |                               |               |                |                |                      |                  |
| 302           | Trencher Wheel Type Cutter Crawler 72" x 21"   |                               |               |                |                |                      | 131.48           |
| 303           | Trencher Wheel Type Cutter Crawler 84" x 24"   | 2720                          | 16.00         | 75.80          | 88.00          | 121.80               | 285.60           |
| 304           | Not Used                                       |                               |               |                |                |                      | 0.00             |
| 305           | Not Used                                       |                               |               |                |                |                      | 0.00             |
|               | <b>TRUCK HIGHWAY</b>                           |                               |               |                |                |                      |                  |
| 335           | Truck Highway 3,500 GVW                        | SILVERADO 1500                | 5.30          | 4.90           | 29.15          | 8.92                 | 42.97            |
| 336           | Truck Highway 8,000 GVW                        | SUBURBAN2500                  | 6.10          | 6.10           | 33.55          | 10.74                | 50.39            |
| 337           | Truck 1/2 Ton 4x2                              | 4X2 1/2 TON CONV GAS          | 5.00          | 3.36           | 27.50          | 6.47                 | 37.33            |
| 338           | Truck 3/4 Ton 4x2                              | 4X2 3/4 TON CONV GAS          | 6.60          | 4.46           | 36.30          | 8.50                 | 49.26            |
| 339           | Truck 1 Ton 4x2                                | 4X2 1 TON CONV GAS            | 6.60          | 4.79           | 36.30          | 8.81                 | 49.90            |
| 340           | Truck 1/2 Ton 4x4                              | 4X4 1/2 TON CONV GAS          | 5.60          | 4.09           | 30.80          | 7.56                 | 42.45            |
| 341           | Truck 3/4 Ton 4x4                              | 4X4 3/4 TON CONV GAS          | 6.60          | 4.78           | 36.30          | 8.82                 | 49.90            |
| 342           | Truck Highway 25,000 GVW                       | 4X2 26KGVW DSL                | 8.50          | 6.07           | 46.75          | 10.98                | 63.80            |
| 343           | Truck Highway 35,000 GVW                       | 4X2 37KGVW DSL                | 9.00          | 5.26           | 49.50          | 11.59                | 66.35            |
| 344           | Truck Highway 50,000 GVW                       | 6X4 58KGVW DSL                |               |                |                |                      | 77.25            |
| 345           | Truck Highway 75,000 GVW                       | 10X4 75KGVW DSL               | 12.70         | 14.56          | 69.85          | 24.53                | 108.94           |
| 346           | Transit Mixer - 10 CY                          | 10CY MIXER                    | 18.20         | 21.02          | 100.10         | 28.54                | 149.66           |
| 347           | Not Used                                       |                               |               |                |                |                      | 0.00             |
|               | <b>TRUCK OH - RIGID</b>                        |                               |               | 150%           |                |                      |                  |
| OHRF-777G     | Off Highway Rigid Frame Truck 78 CY - 100 Tons | 777G                          | 19.10         | 146.48         | 105.05         | 217.78               | 469.31           |
| OHRF-775G     | Off Highway Rigid Frame Truck 55 CY - 70 Tons  | 775G                          | 15.70         | 117.75         | 86.35          | 172.79               | 376.89           |
| OHRF-772G     | Off Highway Rigid Frame Truck 40 CY - 52 Tons  | 772G                          | 12.30         | 89.03          | 67.65          | 127.80               | 284.48           |
| OHRF-770G     | Off Highway Rigid Frame Truck 32 CY - 42 Tons  | 770G                          | 10.50         | 70.40          | 57.75          | 102.66               | 230.81           |
|               | Not Used                                       |                               |               |                |                |                      | 0.00             |

## Equipment Rates

| ID         | Description                                                           | Model Reference | Fuel (Gal/Hr) | Ownership (\$) | Fuel Rate (\$) | Parts and Maint (\$) | Hourly Rate (\$) |
|------------|-----------------------------------------------------------------------|-----------------|---------------|----------------|----------------|----------------------|------------------|
|            | Not Used                                                              |                 |               |                |                |                      | 0.00             |
|            | <b>TRUCK OH - ARTICULATED</b>                                         |                 |               |                |                |                      |                  |
| OHAT-745   | Off Highway Articulated Truck 33 CY - 45 Tons                         | 745             | 14.70         | 81.84          | 80.85          | 126.11               | 288.80           |
| OHAT-740   | Off Highway Articulated Truck 30 CY - 40 Tons                         | 740             | 12.90         | 80.17          | 70.95          | 123.55               | 274.67           |
| OHAT-735   | Off Highway Articulated Truck 26 CY - 36 Tons                         | 735             | 12.50         | 70.57          | 68.75          | 112.38               | 251.70           |
| OHAT-350EJ | Off Highway Articulated Truck 22 CY - 31 Tons - Ejector - For Filters | 350EJ           | 12.90         | 80.17          | 70.95          | 126.11               | 277.23           |
| OHAT-730   | Off Highway Articulated Truck 23 CY - 31 Tons                         | 730             | 10.80         | 58.06          | 59.40          | 84.67                | 202.13           |
| OHAT-725   | Off Highway Articulated Truck 21 CY - 26 Tons                         | 725             | 9.20          | 51.00          | 50.60          | 75.99                | 177.59           |
| 355        | Off Highway Prime Mover and Wagon                                     |                 |               |                |                |                      | 393.24           |
| 356        | Not Used                                                              |                 |               |                |                |                      | 0.00             |
| 357        | Not Used                                                              |                 |               |                |                |                      | 0.00             |
|            | <b>TRUCK WATER OFF HIGHWAY</b>                                        |                 |               |                |                |                      |                  |
| WT-5000    | Truck Water Off Highway 5,000 Gallon                                  |                 |               |                |                |                      | 107.07           |
| WT-6000    | Truck Water Off Highway 6,000 Gallon                                  |                 |               |                |                |                      | 200.02           |
| WT-8000    | Truck Water Off Highway 8,000 Gallon                                  | KT-80           | 15.10         | 81.35          | 83.05          | 116.79               | 281.19           |
| WT-10000   | Truck Water Off Highway 10,000 Gallon                                 | KT-100          | 21.20         | 111.20         | 116.60         | 155.93               | 383.73           |
| WT-12000   | Truck Water Off Highway 12,000 Gallon                                 | 773G & 12K      |               |                |                |                      | 340.58           |
| WT-14000   | Truck Water Off Highway 14,000 Gallon                                 | KT-140          | 21.00         | 166.03         | 115.50         | 222.96               | 504.49           |
| 365        | TRUCK, VACUUM, 3,600 GAL, 2,600 CFM,                                  | 2K VACUUM TRUCK | 13.40         | 38.26          | 73.70          | 54.97                | 166.93           |
| 366        | Not Used                                                              |                 |               |                |                |                      | 0.00             |
|            | <b>TUNNEL AND MINING</b>                                              |                 |               |                |                |                      |                  |
| 368        | Tunnel Drill Rubber Tire 2 Boom                                       | E2C             | 7.50          | 103.68         | 41.25          | 147.17               | 292.10           |
| 369        | Tunnel Drill Rubber Tire 4 Boom                                       | WE3 C           | 11.10         | 142.20         | 61.05          | 201.83               | 405.08           |
| 370        | Not Used                                                              |                 |               |                |                |                      | 0.00             |
| 371        | Not Used                                                              |                 |               |                |                |                      | 0.00             |
|            | <b>WATER BLASTER</b>                                                  |                 |               |                |                |                      |                  |
| 373        | Water Blaster 3,000 PSI                                               |                 |               |                |                |                      | 9.50             |
| 374        | Water Blaster 20,000 PSI Flatbed Trailer                              |                 |               |                |                |                      | 211.58           |
| 375        | Water Blaster Hydrodemo Unit Self Propelled                           |                 |               |                |                |                      | 172.20           |
| 376        | Not Used                                                              |                 |               |                |                |                      | 0.00             |
| 377        | Not Used                                                              |                 |               |                |                |                      | 0.00             |
|            | <b>WATER TANKS</b>                                                    |                 |               |                |                |                      |                  |
| 379        | Water Tank Self Erect Trailer 8,000 Gallon                            |                 |               |                |                |                      | 16.95            |
| 380        | Water Tank Self Erect Trailer 10,000 Gallon                           |                 |               |                |                |                      | 19.62            |
| 381        | Water Tank Self Erect Trailer 12,000 Gallon                           |                 |               |                |                |                      | 21.06            |
| 382        | Not Used                                                              |                 |               |                |                |                      | 0.00             |
| 383        | Not Used                                                              |                 |               |                |                |                      | 0.00             |
|            | <b>WELDERS</b>                                                        |                 |               |                |                |                      |                  |
| 385        | Welder Engine Drive 300 AMP                                           | DIESEL 325 DC   | 1.10          | 1.45           | 6.05           | 2.32                 | 9.82             |
| 386        | Welder Engine Drive 500 AMP                                           | DIESEL 500 DC   | 2.20          | 3.35           | 12.10          | 5.18                 | 20.63            |
| 387        | Not Used                                                              |                 |               |                |                |                      | 0.00             |
| 388        | Not Used                                                              |                 |               |                |                |                      | 0.00             |
|            | <b>TOOLCARRIER</b>                                                    |                 |               |                |                |                      |                  |
| 390        | Integrated Toolcarrier IT38                                           |                 |               |                |                |                      | 94.78            |
| 391        | Not Used                                                              |                 |               |                |                |                      |                  |
| 392        | Not Used                                                              |                 |               |                |                |                      |                  |

## Appendix D Design Contingency Evaluation

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Sites Reservoir: Design Contingency  
 30% Cost Estimate  
 Sites, CA

Cost Estimate  
 AACEI Class 3  
 March 5, 2025

### Contingency Summary

| Design Contingency Calculation | 30% Estimate Cost | Risk Cost     | Probability | Contingency (Factored Risk) | Percent of 30% Estimate |
|--------------------------------|-------------------|---------------|-------------|-----------------------------|-------------------------|
| Category                       | A                 | B             | C           | B x C = D                   | D / A = E               |
| Demolition                     | 31,300,000        | 15,650,000    | 50.0%       | 7,825,000                   | 25.0%                   |
| Geotechnical                   |                   | 399,800,000   | 18.3%       | 73,300,000                  | 13.6%                   |
| Design/Regulatory              |                   | 98,300,000    | 18.7%       | 18,400,000                  | 3.4%                    |
| Golden Gate Dam                | 539,300,000       | 498,100,000   | 18.4%       | 91,700,000                  | 17.0%                   |
| Geotechnical                   |                   | 152,800,000   | 17.0%       | 26,000,000                  | 12.7%                   |
| Design/Regulatory              |                   | 31,000,000    | 16.8%       | 5,200,000                   | 2.5%                    |
| Sites Dam                      | 204,500,000       | 183,800,000   | 17.0%       | 31,200,000                  | 15.3%                   |
| Geotechnical                   |                   | 257,700,000   | 23.1%       | 59,600,000                  | 13.4%                   |
| Design/Regulatory              |                   | 105,000,000   | 17.9%       | 18,800,000                  | 4.2%                    |
| Saddle Dams                    | 445,400,000       | 362,700,000   | 21.6%       | 78,400,000                  | 17.6%                   |
| Dams                           | 1,189,200,000     | 1,044,600,000 | 19.3%       | 201,300,000                 | 16.9%                   |
| Geotechnical                   |                   | 306,600,000   | 23.2%       | 71,000,000                  | 10.8%                   |
| Design/Regulatory              |                   | 194,400,000   | 26.9%       | 52,300,000                  | 8.0%                    |
| Hydraulic Structures           | 656,800,000       | 501,000,000   | 24.6%       | 123,300,000                 | 18.8%                   |
| Geotechnical                   |                   | 60,800,000    | 25.0%       | 15,200,000                  | 2.8%                    |
| Design/Regulatory              |                   | 223,700,000   | 24.1%       | 53,900,000                  | 9.9%                    |
| Roads and Bridge               | 544,500,000       | 284,500,000   | 24.3%       | 69,100,000                  | 12.7%                   |
| Geotechnical                   |                   | 1,177,700,000 | 20.8%       | 245,100,000                 | 10.1%                   |
| Design/Regulatory              |                   | 668,050,000   | 23.4%       | 156,425,000                 | 6.5%                    |
| Reservoirs Package             | 2,422,000,000     | 1,845,750,000 | 21.8%       | 401,525,000                 | 16.6%                   |

Contingency Analysis

HR - Reservoir Contingency

| ID                             | Category              | Scope                                                     | Risk Description                                                                                                                                                                                                                                               | 30% Estimate Cost <sup>(1)</sup> | Risk Cost             | Cost + Full Risk | Probability  | Contingency (Factored Risk) | Percent of 30% Estimate |
|--------------------------------|-----------------------|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------------|------------------|--------------|-----------------------------|-------------------------|
|                                |                       |                                                           |                                                                                                                                                                                                                                                                | A                                | B                     | A+B = C          | D            | B x D = E                   | E / A = F               |
| <b>Golden Gate Dam</b>         |                       |                                                           |                                                                                                                                                                                                                                                                |                                  |                       |                  |              |                             |                         |
| HR-G-01A                       | Embankment Foundation | Golden Gate Dam Foundation Excavation                     | Estimate assumes 15' excavation depth based on limited information. Risk: The excavation may increase 5'.                                                                                                                                                      | \$ 539,252,058                   | \$ 31,872,019         | \$ 571,124,077   | 38%          | \$ 11,997,539               | 2.2%                    |
| HR-G-01B                       | Embankment Foundation | Golden Gate Dam Foundation Excavation                     | Estimate assumes 15' excavation depth based on limited information. Risk: The excavation may increase 10'.                                                                                                                                                     | \$ 571,124,077                   | \$ 31,872,019         | \$ 602,996,096   | 13%          | \$ 4,143,362                | 0.7%                    |
| HR-G-01C                       | Embankment Foundation | Golden Gate Dam Foundation Excavation                     | Estimate assumes 15' excavation depth based on limited information. Risk: The excavation may increase 15'.                                                                                                                                                     | \$ 602,996,096                   | \$ 31,872,017         | \$ 634,868,113   | 3%           | \$ 796,800                  | 0.1%                    |
| HR-G-02                        | Embankment Foundation | Golden Gate Dam Foundation Excavation                     | No landslides are assumed in the dam foundation based on geomorphology. Risk: A significant landslide 20% of the excavation volume (300,000 cy) .                                                                                                              | \$ 539,252,058                   | \$ 20,235,492         | \$ 559,487,550   | 15%          | \$ 3,035,324                | 0.6%                    |
| HR-G-03                        | Embankment Foundation | Golden Gate Dam Grout Curtain                             | The estimate assumes mandatory primary, secondaries, 50% tertiary , 50% allowance for higher order holes or 130k LF and 650 Holes<br>Risk: Assume increases to 100% tertiary, which results in 180k LF and 990 Holes                                           | \$ 539,252,058                   | \$ 11,685,558         | \$ 550,937,616   | 19%          | \$ 2,200,780                | 0.4%                    |
| HR-G-04                        | Embankment Foundation | Golden Gate Dam Consolidation grouting                    | Golden Gate does not include consolidation grout. Risk Assumes 4 rows of consolidation grout holes (2 upstream and 2 downstream) Assume 20 foot spacing and 30 foot depth along the valley length of 2,400 feet.                                               | \$ 539,252,058                   | \$ 4,090,242          | \$ 543,342,301   | 17%          | \$ 698,750                  | 0.1%                    |
| HR-G-05A                       | Embankment Borrow     | Golden Gate Dam Core Borrow                               | Materials inside the reservoir are likely to be dispersive. Core materials may be borrowed for the TRR outside the reservoir area which increases the haul distance from 2 miles to 8 miles. Additional Haul Distance for 1,060k CY                            | \$ 539,252,058                   | \$ 16,472,219         | \$ 555,724,277   | 53%          | \$ 8,671,447                | 1.6%                    |
| HR-G-06                        | Dam Embankments       | Golden Gate Dam Core widths increase                      | The core slopes are currently 0.25:1 (H:V). Risk: Further design may increase core width to 0.5:1 (H:V).<br>GG = 1,060k to 2,120k CY of Core                                                                                                                   | \$ 539,252,058                   | \$ 38,049,139         | \$ 577,301,197   | 28%          | \$ 10,495,221               | 1.9%                    |
| HR-G-07                        | Dam Embankments       | Golden Gate Dam Embankment Upstream and Downstream Slopes | The embankment downstream slopes are currently 2:1 and have the potential to increase to 2.5:1 (H:V).<br>The embankment upstream slopes are 2.25:1 and have the potential to increase to 3:1 (H:V).<br>Risk: GG Total Embankment increases from 7.7M to 10M CY | \$ 539,252,058                   | \$ 102,004,009        | \$ 641,256,068   | 22%          | \$ 22,185,872               | 4.1%                    |
| HR-G-08                        | Embankment Borrow     | Golden Gate Rock Borrow Stripping and Overburden Removal  | Currently assume 8 feet of overburden. Risk: This may grow to 16 feet                                                                                                                                                                                          | \$ 539,252,058                   | \$ 22,297,091         | \$ 561,549,149   | 22%          | \$ 4,793,875                | 0.9%                    |
| HR-G-09A                       | Embankment Borrow     | Golden Gate Rock Borrow                                   | After removal of the overburden the estimate assumes 10% unsuitable material. Risk: This may grow to 20%                                                                                                                                                       | \$ 539,252,058                   | \$ 20,926,738         | \$ 560,178,797   | 23%          | \$ 4,813,150                | 0.9%                    |
| HR-G-09B                       | Embankment Borrow     | Golden Gate Rock Borrow                                   | After removal of the overburden the estimate assumes 10% unsuitable material. Risk: This may grow to 30%                                                                                                                                                       | \$ 560,178,797                   | \$ 13,951,156         | \$ 574,129,953   | 9%           | \$ 1,185,848                | 0.2%                    |
| HR-G-10                        | Dam Embankments       | Golden Gate Filter and Drain Zones                        | Currently the Filter and Drain Widths are 12 feet and 8' feet respectively. Risk: Further design may require increased filter and drains width of 15 Feet and 10 Feet which would increase Filters and Drains by 25%                                           | \$ 539,252,058                   | \$ 24,517,011         | \$ 563,769,069   | 8%           | \$ 1,900,068                | 0.4%                    |
| HR-G-11                        | Dam Embankments       | Golden Gate Transition Zones                              | The estimate assumes 153k cy of Zone 4A and 350k cy of zone 4B are produced on site. Risk: Unable to make transitions for Golden Gate and Sites Dams on site. Need to import.                                                                                  | \$ 539,252,058                   | \$ 92,530,057         | \$ 631,782,115   | 10%          | \$ 8,790,355                | 1.6%                    |
| HR-G-12                        | Dam Embankments       | Golden Gate and Sites Dam Transition Zones                | The current width of transition zones is 10' feet. Risk of widths to increase 25%                                                                                                                                                                              | \$ 539,252,058                   | \$ 10,868,234         | \$ 550,120,292   | 10%          | \$ 1,032,482                | 0.2%                    |
|                                |                       |                                                           | Items not Reviewed                                                                                                                                                                                                                                             | \$ 75,388,400                    | \$ 24,878,172         | \$ 100,266,572   | 20%          | \$ 4,975,634                | 0.9%                    |
| <b>Golden Gate Dam - Total</b> |                       |                                                           |                                                                                                                                                                                                                                                                | <b>\$ 539,252,058</b>            | <b>\$ 498,121,173</b> |                  | <b>18.4%</b> | <b>\$ 91,716,508</b>        | <b>17.0%</b>            |

Contingency Analysis

HR - Reservoir Contingency

| ID                   | Category              | Scope                                               | Risk Description                                                                                                                                                                                                                                              | 30% Estimate Cost <sup>(1)</sup> | Risk Cost             | Cost + Full Risk | Probability  | Contingency (Factored Risk) | Percent of 30% Estimate |
|----------------------|-----------------------|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------------|------------------|--------------|-----------------------------|-------------------------|
|                      |                       |                                                     |                                                                                                                                                                                                                                                               | A                                | B                     | A+B = C          | D            | B x D = E                   | E / A = F               |
| <b>Sites Dam</b>     |                       |                                                     |                                                                                                                                                                                                                                                               |                                  |                       |                  |              |                             |                         |
| HR-S-01A             | Embankment Foundation | Sites Dam Foundation Excavation                     | Estimate assumes 15' excavation depth based on limited information. Risk: The excavation may increase 5'.                                                                                                                                                     | \$ 204,535,408                   | \$ 11,776,550         | \$ 216,311,958   | 23%          | \$ 2,708,606                | 1.3%                    |
| HR-S-01B             | Embankment Foundation | Sites Dam Foundation Excavation                     | Estimate assumes 15' excavation depth based on limited information. Risk: The excavation may increase 10'.                                                                                                                                                    | \$ 216,311,958                   | \$ 11,776,553         | \$ 228,088,511   | 9%           | \$ 1,001,007                | 0.5%                    |
| HR-S-01C             | Embankment Foundation | Sites Dam Foundation Excavation                     | Estimate assumes 15' excavation depth based on limited information. Risk: The excavation may increase 15'.                                                                                                                                                    | \$ 228,088,511                   | \$ 11,776,551         | \$ 239,865,062   | 3%           | \$ 294,414                  | 0.1%                    |
| HR-S-02              | Embankment Foundation | Sites Dam Foundation Excavation                     | A landslide is assumed in the dam foundation based on geomorphology. A deep landslide may occur. Risk: A unidentified significant landslide 20% of the excavation volume 100,000 cy).                                                                         | \$ 204,535,408                   | \$ 6,976,084          | \$ 211,511,492   | 23%          | \$ 1,574,602                | 0.8%                    |
| HR-S-03              | Embankment Foundation | Sites Dam Grout Curtain                             | The estimate assumes mandatory primary, secondaries, 50% tertiary, 50% allowance for higher order holes 65k LF and 240 Holes Risk: Assume increases to 100% tertiary, which results in 80k LF and 345 Holes                                                   | \$ 204,535,408                   | \$ 4,485,425          | \$ 209,020,833   | 16%          | \$ 713,930                  | 0.3%                    |
| HR-S-04              | Embankment Foundation | Sites Dam Consolidation grouting                    | Sites does not include consolidation grout. Risk: Assumes 4 rows of consolidation grout holes (2 upstream and 2 downstream) Assume 20 foot spacing and 30 foot depth along the valley length of 1,020 feet.                                                   | \$ 204,535,408                   | \$ 2,019,414          | \$ 206,554,822   | 17%          | \$ 344,983                  | 0.2%                    |
| HR-S-05              | Embankment Borrow     | Sites Core Borrow                                   | Materials inside the reservoir are likely to be dispersive. Core materials may be borrowed for the TRR outside the reservoir area which increases the haul distance from 2 miles to 8 miles. Additional Haul Sites 280k CY                                    | \$ 204,535,408                   | \$ 6,114,987          | \$ 210,650,395   | 53%          | \$ 3,219,104                | 1.6%                    |
| HR-S-06              | Dam Embankments       | Sites Dam Core widths increase                      | The core slopes are currently 0.25:1 (H:V). Risk: Further design may increase core width to 0.5:1 (H:V).                                                                                                                                                      | \$ 204,535,408                   | \$ 8,166,711          | \$ 212,702,119   | 28%          | \$ 2,252,651                | 1.1%                    |
| HR-S-07              | Dam Embankments       | Sites Dam Embankment Upstream and Downstream Slopes | The embankment downstream slopes are currently 2:1 and have the potential to increase to 2.5:1 (H:V). The embankment upstream slopes are 2.25:1 and have the potential to increase to 3:1 (H:V). Risk: - The Sites embankment increases from 2.65M to 3.5M CY | \$ 204,535,408                   | \$ 51,473,385         | \$ 256,008,793   | 22%          | \$ 11,195,461               | 5.5%                    |
| HR-S-08              | Embankment Borrow     | Sites Rock Borrow Stripping and Overburden Removal  | Currently assume 8 feet of overburden. Risk: This may grow to 16 feet                                                                                                                                                                                         | \$ 204,535,408                   | \$ 8,211,606          | \$ 212,747,014   | 11%          | \$ 903,277                  | 0.4%                    |
| HR-S-9A              | Embankment Borrow     | Sites Rock Borrow Quality                           | After removal of the overburden the estimate assumes 10% unsuitable material. Risk: This may grow to 25%                                                                                                                                                      | \$ 204,535,408                   | \$ 5,175,729          | \$ 209,711,137   | 21%          | \$ 1,061,024                | 0.5%                    |
| HR-S-09B             | Embankment Borrow     | Sites Rock Borrow Quality                           | After removal of the overburden the estimate assumes 10% unsuitable material. Risk: This may grow to 35%                                                                                                                                                      | \$ 204,535,408                   | \$ 5,175,728          | \$ 209,711,136   | 7%           | \$ 362,301                  | 0.2%                    |
| HR-S-10              | Dam Embankments       | Sites Dam Filter and Drain Zones                    | Currently the Filter and Drain Widths are 12 feet and 8' feet respectively. Risk: Further design may require increased filter and drains width of 15 Feet and 10 Feet which would increase Filters and Drains by 25%                                          | \$ 204,535,408                   | \$ 7,851,268          | \$ 212,386,676   | 8%           | \$ 608,473                  | 0.3%                    |
| HR-S-11              | Dam Embankments       | Sites Dam Transition Zones                          | The estimate assumes 47k cy of Zone 4A and 114k cy of zone 4B are produced on site. Risk: Unable to make transitions for Golden Gate and Sites Dams on site. Need to                                                                                          | \$ 204,535,408                   | \$ 27,834,481         | \$ 232,369,889   | 10%          | \$ 2,644,276                | 1.3%                    |
| HR-S-12              | Dam Embankments       | Sites Dam Transition Zones                          | The current width of transition zones is 10' feet. Risk of widths to increase 25%                                                                                                                                                                             | \$ 204,535,408                   | \$ 6,008,684          | \$ 210,544,092   | 10%          | \$ 570,825                  | 0.3%                    |
|                      |                       |                                                     | Items not Reviewed                                                                                                                                                                                                                                            | \$ 27,319,450                    | \$ 9,015,419          | \$ 36,334,869    | 20%          | \$ 1,803,084                | 0.9%                    |
| <b>Sites - Total</b> |                       |                                                     |                                                                                                                                                                                                                                                               | <b>\$ 204,535,408</b>            | <b>\$ 183,838,573</b> |                  | <b>17.0%</b> | <b>\$ 31,258,018</b>        | <b>15.3%</b>            |

Contingency Analysis

HR - Reservoir Contingency

| ID                              | Category              | Scope                                 | Risk Description                                                                                                                                                                                                                  | 30% Estimate Cost <sup>(1)</sup> | Risk Cost             | Cost + Full Risk | Probability  | Contingency (Factored Risk) | Percent of 30% Estimate |
|---------------------------------|-----------------------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------------|------------------|--------------|-----------------------------|-------------------------|
|                                 |                       |                                       |                                                                                                                                                                                                                                   | A                                | B                     | A+B = C          | D            | B x D = E                   | E / A = F               |
| <b>Saddle Dams and Spillway</b> |                       |                                       |                                                                                                                                                                                                                                   |                                  |                       |                  |              |                             |                         |
| HR-SD-01A                       | Embankment Foundation | Saddle Dam Foundation Excavation      | Estimate assumes 15' excavation depth based on limited information. Risk: The excavation may increase 5'.                                                                                                                         | \$ 445,428,225                   | \$ 30,396,339         | \$ 475,824,564   | 47%          | \$ 14,336,940               | 3.2%                    |
| HR-SD-01B                       | Embankment Foundation | Saddle Dam Foundation Excavation      | Estimate assumes 15' excavation depth based on limited information. Risk: The excavation may increase 10'.                                                                                                                        | \$ 475,824,564                   | \$ 30,396,338         | \$ 506,220,902   | 19%          | \$ 5,724,644                | 1.2%                    |
| HR-SD-01C                       | Embankment Foundation | Saddle Dam Foundation Excavation      | Estimate assumes 15' excavation depth based on limited information. Risk: The excavation may increase 15'.                                                                                                                        | \$ 506,220,902                   | \$ 30,396,332         | \$ 536,617,234   | 6%           | \$ 1,823,780                | 0.4%                    |
| HR-SD-02                        | Embankment Foundation | Saddle Dam Foundation Excavation      | No landslides are assumed in the dam foundation based on geomorphology. Risk: A significant landslide 20% of the excavation volume.                                                                                               | \$ 445,428,225                   | \$ 19,700,830         | \$ 465,129,055   | 10%          | \$ 1,871,579                | 0.4%                    |
| HR-SD-03                        | Embankment Foundation | Saddle Dam Grout Curtain              | The estimate assumes mandatory primary, secondaries, 50% tertiary, 50% allowance for higher order holes or 260k LF and 2740 Holes. Risk: Assume increases to 100% tertiary, which results in 355k LF and 3900 Holes               | \$ 445,428,225                   | \$ 34,126,480         | \$ 479,554,705   | 25%          | \$ 8,417,865                | 1.9%                    |
| HR-SD-04                        | Rim Grout             | Rim Grout                             | The estimate includes 51,300 LF of rim grout. Risk: Rim grout increases by 100% to 102.5k lf                                                                                                                                      | \$ 445,428,225                   | \$ 8,583,274          | \$ 454,011,499   | 47%          | \$ 4,048,444                | 0.9%                    |
| HR-SD-05A                       | Embankment Borrow     | Saddle Dam Core Borrow                | Materials inside the reservoir are likely to be dispersive. Core materials may be borrowed for the TRR outside the reservoir area which increases the haul distance from 2 miles to 8 miles. Additional Haul Distance for 690k CY | \$ 445,428,225                   | \$ 25,520,958         | \$ 470,949,183   | 33%          | \$ 8,421,916                | 1.9%                    |
| HR-SD-06                        | Dam Embankments       | Saddle Dam Core widths increase       | The core slopes are currently 0.25:1 (H:V). Risk: Further design may increase core width to 0.5:1 (H:V). Saddles = 690k to 1,380k CY of Core                                                                                      | \$ 445,428,225                   | \$ 37,719,862         | \$ 483,148,087   | 10%          | \$ 3,583,387                | 0.8%                    |
| HR-SD-07                        | Dam Embankments       | Spillway                              | The spillway is a small structure. The desing is based on 3,900 CY of concrete. Future studies may increase this volume. Risk the spillway increases by 100%.                                                                     | \$ 445,428,225                   | \$ 14,329,083         | \$ 459,757,308   | 31%          | \$ 4,370,370                | 1.0%                    |
| HR-SD-08                        | Not Used              | Not Used                              | Not Used                                                                                                                                                                                                                          | \$ 445,428,225                   | \$ -                  | \$ 445,428,225   | 0%           | \$ -                        | 0.0%                    |
| HR-SD-09A                       | Embankment Borrow     | Saddle Random Borrow                  | Estimate assumes little waste. The random borrow areas may have rocks, poor soils, or other unsuitable materials. Risk 15% Waste                                                                                                  | \$ 445,428,225                   | \$ 7,712,784          | \$ 453,141,008   | 25%          | \$ 1,902,487                | 0.4%                    |
| HR-SD-09B                       | Embankment Borrow     | Saddle Random Borrow                  | Estimate assumes little waste. The random borrow areas may have rocks, poor soils, or other unsuitable materials. Risk 30% Waste                                                                                                  | \$ 453,141,008                   | \$ 56,560,392         | \$ 509,701,401   | 15%          | \$ 8,672,593                | 1.9%                    |
| HR-SD-10                        | Dam Embankments       | Saddle Filter and Drain Zones         | Currently the Filter and Drain Widths are 6 feet and 6' feet respectively. Risk: Further design may require increased filter and drains width to increase by 25%                                                                  | \$ 445,428,225                   | \$ 27,064,793         | \$ 472,493,017   | 25%          | \$ 6,675,982                | 1.5%                    |
| HR-SD-11                        | Not Used              | Not Used                              | Not Used                                                                                                                                                                                                                          | \$ 445,428,225                   | \$ -                  | \$ 445,428,225   | 0%           | \$ -                        | 0.0%                    |
| HR-SD-12                        | Dam Embankments       | Saddle and Sites Dam Transition Zones | The current width of transition zones is 6' feet. Risk of widths to increase by 25%                                                                                                                                               | \$ 445,428,225                   | \$ 11,241,156         | \$ 456,669,381   | 25%          | \$ 2,772,818                | 0.6%                    |
|                                 |                       |                                       | Items not Reviewed                                                                                                                                                                                                                | \$ 87,787,191                    | \$ 28,969,773         | \$ 116,756,963   | 20%          | \$ 5,793,955                | 1.3%                    |
| <b>Saddle Dams and Spillway</b> |                       |                                       |                                                                                                                                                                                                                                   | <b>\$ 445,428,225</b>            | <b>\$ 362,718,394</b> |                  | <b>21.6%</b> | <b>\$ 78,416,761</b>        | <b>17.6%</b>            |

Contingency Analysis

HR - Reservoir Contingency

| ID                                         | Category | Scope                              | Risk Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 30% Estimate Cost <sup>(1)</sup> | Risk Cost             | Cost + Full Risk | Probability | Contingency (Factored Risk) | Percent of 30% Estimate |
|--------------------------------------------|----------|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------------|------------------|-------------|-----------------------------|-------------------------|
|                                            |          |                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | A                                | B                     | A+B = C          | D           | B x D = E                   | E / A = F               |
| <b>Hydraulic Structures - Inlet Outlet</b> |          |                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                  |                       |                  |             |                             |                         |
| HR-24                                      | I/O      | Tunnel Excavation Ground Stability | The 30% design assumes a 50/50 initial ground supports mix. If ground is not as stable there will be decrease in excavation rate, additional stabilization measures (steel sets, grouting etc).<br>Risk: Increase in poor ground from 50 to 75 percent, i.e. 75/25.                                                                                                                                                                                                                                        | \$ 446,805,582                   | \$ 83,121,719         | \$ 529,927,302   | 16%         | \$ 12,883,866               | 2.9%                    |
| HR-25                                      | I/O      | Tunnel Excavation Ground Water     | Very little data available for the tunnel. Assumed some perched water in the rim and exploration holes and dewatering. If water inflows are greater and it is required to grout ahead of the tunnel and/or dewatering increased to stabilize the excavation then the excavation rate will slow and additional efforts will be required.<br>Risk: Water inflows are greater than expected. Impacts additional 20 percent of tunnel requiring more dewatering, grouting ahead and slowed rate of excavation. | \$ 446,805,582                   | \$ 46,916,032         | \$ 493,721,614   | 33%         | \$ 15,314,733               | 3.4%                    |
| HR-26                                      | I/O      | Tunnel Excavation Fault Crossing   | Very little data available for the tunnel. Assumed no faults cross the tunnel. There are faults in the area and are currently mapped on either side.<br>Risk: A fault is identified crossing the tunnel and there is a need to design for fault rupture potential. This is a special design to provide the ability to accommodate fault offset but maintain full function of the I/O works.                                                                                                                | \$ 446,805,582                   | \$ 35,664,222         | \$ 482,469,804   | 16%         | \$ 5,676,555                | 1.3%                    |
| HR-27                                      | I/O      | Foundation Excavation              | The I/O structure is on a cut slope in the Boxer formation which is predominantly mudstone. There is very little geotechnical data to confirm the depth of suitable foundation rock. Risk: The depth of suitable foundation rock is 5 feet lower requiring reconfiguration of the I/O structure and additional excavation.<br><br>Assume 10' Increases to 20'                                                                                                                                              | \$ 446,805,582                   | \$ 16,189,310         | \$ 462,994,892   | 31%         | \$ 4,937,739                | 1.1%                    |
| HR-28                                      | I/O      | Portal Excavation                  | The I/O inlet portal and structure is on a cut slope in the Boxer formation which is predominantly mudstone. There is very little geotechnical data. There are no visible signs of a landslide, but there are no borings to confirm. Risk: There is a landslide in the portal rock requiring reconfiguration of the I/O structure and additional excavation. Assumed the excavation increases by 25% or 66k CY                                                                                             | \$ 446,805,582                   | \$ 21,468,745         | \$ 468,274,328   | 32%         | \$ 6,777,990                | 1.5%                    |
| a                                          | I/O      | I/O Configuration                  | The I/O has been evolved from a tower to a sloping intake. Other configurations have been discussed including a shaft with adits and a socketed tower.<br><br>Risk: Regulatory agencies require a different configuration.                                                                                                                                                                                                                                                                                 | \$ 446,805,582                   | \$ 50,000,000         | \$ 496,805,582   | 41%         | \$ 20,607,143               | 4.6%                    |
| HR-28A                                     | I/O      | Tunnel Steel Field Fabrication     | The I/O Tunnel is 18.5' in diameter. A vendor has confirmed the pipe can be shipped however a detailed logistics study has not been performed.<br><br>Risk - The pipe must be fabricated on site resulting in a unit price increase.                                                                                                                                                                                                                                                                       | \$ 446,805,582                   | \$ 79,320,000         | \$ 526,125,582   | 21%         | \$ 16,260,600               | 3.6%                    |
|                                            |          |                                    | Items not Reviewed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | \$ 36,081,075                    | \$ 11,906,755         | \$ 47,987,830    | 20%         | \$ 2,381,351                | 0.4%                    |
|                                            |          |                                    | Sites Diversion Allownace                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | \$ 210,000,000                   | \$ 103,198,021        | \$ 313,198,021   | 25%         | \$ 25,408,165               | 3.9%                    |
|                                            |          |                                    | Sites Diversion Allownace                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | \$ 210,000,000                   | \$ 53,162,617         | \$ 263,162,617   | 25%         | \$ 13,089,055               | 2.0%                    |
| <b>Hydraulic Structures - Total</b>        |          |                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>\$ 656,805,582</b>            | <b>\$ 500,947,420</b> |                  | <b>25%</b>  | <b>\$ 123,337,197</b>       | <b>18.8%</b>            |

Contingency Analysis

HR - Reservoir Contingency

| ID                         | Category | Scope                        | Risk Description                                                                                                                                                                                                                                                                                                                                                | 30% Estimate Cost <sup>(1)</sup> | Risk Cost             | Cost + Full Risk | Probability | Contingency (Factored Risk) | Percent of 30% Estimate |
|----------------------------|----------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------------|------------------|-------------|-----------------------------|-------------------------|
|                            |          |                              |                                                                                                                                                                                                                                                                                                                                                                 | A                                | B                     | A+B = C          | D           | B x D = E                   | E / A = F               |
| <b>Roads &amp; Bridges</b> |          |                              |                                                                                                                                                                                                                                                                                                                                                                 |                                  |                       |                  |             |                             |                         |
| HR-29                      | Roads    | New Road Added               | Risk: As the design progresses an additional permanent road may be added. This could be a road from the I/O to the Golden Gate Dam along the high water and connecting to the Sites Lodoga, or it could be additional length of roads to avoid areas with impacts to community.<br>Cost Assumption - 2.0 Miles in mountainous terrain similar to the SLR Detour | \$ 544,450,992                   | \$ 60,990,094         | \$ 605,441,086   | 25%         | \$ 15,247,524               | 2.8%                    |
| HR-30                      | Roads    | Structural Section           | Risk: Structural Sections, Agg Base and Asphalt increase by 25%                                                                                                                                                                                                                                                                                                 | \$ 544,450,992                   | \$ 23,127,052         | \$ 567,578,044   | 25%         | \$ 5,781,763                | 1.1%                    |
| HR-31                      | Roads    | Excavation - Rock Excavation | Risk: Rock excavation is included in the estimate as 60% of the total excavation. Risk: Rock excavation may increase to 80%.                                                                                                                                                                                                                                    | \$ 544,450,992                   | \$ 12,947,638         | \$ 557,398,630   | 25%         | \$ 3,236,910                | 0.6%                    |
| HR-32                      | Roads    | Retaining Walls              | Risk: Retaining walls increase from 225k sf to 550k sf or wall types change.                                                                                                                                                                                                                                                                                    | \$ 544,450,992                   | \$ 38,007,732         | \$ 582,458,724   | 25%         | \$ 9,501,933                | 1.7%                    |
| HR-33                      | Bridge   | Bridge Foundations           | Bridge foundation volume and pile increases based on geotechnical conditions.<br>All increase by 25%                                                                                                                                                                                                                                                            | \$ 544,450,992                   | \$ 12,350,727         | \$ 556,801,719   | 25%         | \$ 3,087,682                | 0.6%                    |
| HR-33                      | Bridge   | Bridge Height                | The SLR bridge is at elevation increases 10 Feet .<br>See qty calcs                                                                                                                                                                                                                                                                                             | \$ 544,450,992                   | \$ 24,873,136         | \$ 569,324,128   | 25%         | \$ 6,218,284                | 1.1%                    |
| HR-34                      | Bridge   | Bridge Type                  | Bridge type is revised from an Spliced Girder Bridge to Cantilever Bridge resulting in a significant cost increase.<br>Assume 100% increase to all costs above the columns.                                                                                                                                                                                     | \$ 544,450,992                   | \$ 47,972,189         | \$ 592,423,181   | 25%         | \$ 11,993,047               | 2.2%                    |
| HR-35                      | Roads    |                              | Allowances were included in the design for animal crossings. With futher studies and design these could change.<br>Risk - Animal Crossings increase by 100%.                                                                                                                                                                                                    | \$ 544,450,992                   | \$ 7,112,517          | \$ 551,563,509   | 25%         | \$ 1,778,129                | 0.3%                    |
| HR-36                      | Roads    |                              | Allowances are included in the estimate for the drainage features along the roads. Risk - Futher studies increase quantity and size of the drainage features by 50%.                                                                                                                                                                                            | \$ 544,450,992                   | \$ 3,557,195          | \$ 548,008,187   | 25%         | \$ 889,299                  | 0.2%                    |
| HR-37                      | Roads    |                              | 68, 69, D road improvements are full depth redimination and the roads stay at the same elevation.<br>Risk - Road elevation need to be increased to reduce flooding risk. Risk - The cost of the road improvements increase by 100%.                                                                                                                             | \$ 544,450,992                   | \$ 14,048,118         | \$ 558,499,110   | 25%         | \$ 3,512,029                | 0.6%                    |
|                            |          |                              | Items not Reviewed                                                                                                                                                                                                                                                                                                                                              | \$ 119,683,000                   | \$ 39,495,390         | \$ 159,178,390   | 20%         | \$ 7,899,078                | 1.5%                    |
| <b>Roads - Total</b>       |          |                              |                                                                                                                                                                                                                                                                                                                                                                 | <b>\$ 544,450,992</b>            | <b>\$ 284,481,788</b> |                  | <b>24%</b>  | <b>\$ 69,145,678</b>        | <b>12.7%</b>            |

Notes

This document addresses design contingency  
There is no "mitigation" of risk at this time. This document establishes a contingency based on what we know today.  
Only cost drivers are considered. Item not revived assume a risk cost of 33% and a probability of 20%.  
HR - Construction contingency will be carried at 15%.  
Owners and/or program and/or other contingencies may be carried above and beyond the design and construction contingency.

Sites Reservoir: Design Contingency  
30% Cost Estimate  
Sites, CA

Contingency Analysis

HR - Reservoir Contingency

| ID                      | Category              | Scope                                                     | Risk Description                                                                                                                                                                                                                                               | Score Card Values LMH |       |          |       |       |        |          | Score Card Values Probability % |       |          |       |       |        |          |         |
|-------------------------|-----------------------|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------|----------|-------|-------|--------|----------|---------------------------------|-------|----------|-------|-------|--------|----------|---------|
|                         |                       |                                                           |                                                                                                                                                                                                                                                                | Forrest               | Smith | Aldridge | Kehoe | Schug | Hertel | Haugaard | Forrest                         | Smith | Aldridge | Kehoe | Schug | Hertel | Haugaard | Average |
| Golden Gate Dam         |                       |                                                           |                                                                                                                                                                                                                                                                |                       |       |          |       |       |        |          |                                 |       |          |       |       |        |          |         |
| HR-G-01A                | Embankment Foundation | Golden Gate Dam Foundation Excavation                     | Estimate assumes 15' excavation depth based on limited information. Risk: The excavation may increase 5'.                                                                                                                                                      | M                     | H     | M        | H     | M     | M      | M        | 31%                             | 56%   | 31%      | 56%   | 31%   | 31%    | 31%      | 38%     |
| HR-G-01B                | Embankment Foundation | Golden Gate Dam Foundation Excavation                     | Estimate assumes 15' excavation depth based on limited information. Risk: The excavation may increase 10'.                                                                                                                                                     | L                     | L     | L        | L     | L     | L      | L        | 13%                             | 13%   | 13%      | 13%   | 13%   | 13%    | 13%      | 13%     |
| HR-G-01C                | Embankment Foundation | Golden Gate Dam Foundation Excavation                     | Estimate assumes 15' excavation depth based on limited information. Risk: The excavation may increase 15'.                                                                                                                                                     | VL                    | VL    | VL       | VL    | VL    | VL     | VL       | 3%                              | 3%    | 3%       | 3%    | 3%    | 3%     | 3%       | 3%      |
| HR-G-02                 | Embankment Foundation | Golden Gate Dam Foundation Excavation                     | No landslides are assumed in the dam foundation based on geomorphology. Risk: A significant landslide 20% of the excavation volume 300,000 cy) .                                                                                                               | M                     | L     | M        | VL    | L     | VL     | L        | 31%                             | 13%   | 31%      | 3%    | 13%   | 3%     | 13%      | 15%     |
| HR-G-03                 | Embankment Foundation | Golden Gate Dam Grout Curtain                             | The estimate assumes mandatory primary, secondaries, 50% tertiary, 50% allowance for higher order holes or 130k LF and 650 Holes<br>Risk: Assume increases to 100% tertiary, which results in 180k LF and 990 Holes                                            | L                     | M     | M        | L     | L     | L      |          | 13%                             | 31%   | 31%      | 13%   | 13%   | 13%    |          | 19%     |
| HR-G-04                 | Embankment Foundation | Golden Gate Dam Consolidation grouting                    | Golden Gate does not include consolidation grout. Risk Assumes 4 rows of consolidation grout holes (2 upstream and 2 downstream) Assume 20 foot spacing and 30 foot depth along the valley length of 2,400 feet.                                               | M                     | M     | L        | L     | VL    | L      |          | 31%                             | 31%   | 13%      | 13%   | 3%    | 13%    |          | 17%     |
| HR-G-05A                | Embankment Borrow     | Golden Gate Dam Core Borrow                               | Materials inside the reservoir are likely to be dispersive. Core materials may be borrowed for the TRR outside the reservoir area which increases the haul distance from 2 miles to 8 miles. Additional Haul Distance for 1,060k CY                            | H                     | H     | VH       | M     | M     | H      | H        | 56%                             | 56%   | 86%      | 31%   | 31%   | 56%    | 56%      | 53%     |
| HR-G-06                 | Dam Embankments       | Golden Gate Dam Core widths increase                      | The core slopes are currently 0.25:1 (H:V). Risk: Further design may increase core width to 0.5:1 (H:V).<br>GG = 1,060k to 2,120k CY of Core                                                                                                                   | M                     | M     | M        | M     |       | L      | M        | 31%                             | 31%   | 31%      | 31%   |       | 13%    | 31%      | 28%     |
| HR-G-07                 | Dam Embankments       | Golden Gate Dam Embankment Upstream and Downstream Slopes | The embankment downstream slopes are currently 2:1 and have the potential to increase to 2.5:1 (H:V).<br>The embankment upstream slopes are 2.25:1 and have the potential to increase to 3:1 (H:V).<br>Risk: GG Total Embankment increases from 7.7M to 10M CY | M                     | L     | M        | L     |       | M      | L        | 31%                             | 13%   | 31%      | 13%   |       | 31%    | 13%      | 22%     |
| HR-G-08                 | Embankment Borrow     | Golden Gate Rock Borrow Stripping and Overburden Removal  | Currently assume 8 feet of overburden. Risk: This may grow to 16 feet                                                                                                                                                                                          | M                     | M     | VL       | M     | L     | L      | M        | 31%                             | 31%   | 3%       | 31%   | 13%   | 13%    | 31%      | 22%     |
| HR-G-09A                | Embankment Borrow     | Golden Gate Rock Borrow                                   | After removal of the overburden the estimate assumes 10% unsuitable material. Risk: This may grow to 20%                                                                                                                                                       | M                     | M     | L        | M     | L     | L      | M        | 31%                             | 31%   | 13%      | 31%   | 13%   | 13%    | 31%      | 23%     |
| HR-G-09B                | Embankment Borrow     | Golden Gate Rock Borrow                                   | After removal of the overburden the estimate assumes 10% unsuitable material. Risk: This may grow to 30%                                                                                                                                                       | L                     | L     | VL       | L     | VL    | VL     | L        | 13%                             | 13%   | 3%       | 13%   | 3%    | 3%     | 13%      | 9%      |
| HR-G-10                 | Dam Embankments       | Golden Gate Filter and Drain Zones                        | Currently the Filter and Drain Widths are 12 feet and 8' feet respectively. Risk: Further design may require increased filter and drains width of 15 Feet and 10 Feet which would increase Filters and Drains by 25%                                           | VL                    | L     | VL       | L     |       | VL     | L        | 3%                              | 13%   | 3%       | 13%   |       | 3%     | 13%      | 8%      |
| HR-G-11                 | Dam Embankments       | Golden Gate Transition Zones                              | The estimate assumes 153k cy of Zone 4A and 350k cy of zone 4B are produced on site. Risk: Unable to make transitions for Golden Gate and Sites Dams on site. Need to import.                                                                                  | VL                    | VL    | L        | L     |       | L      | L        | 3%                              | 3%    | 13%      | 13%   |       | 13%    | 13%      | 10%     |
| HR-G-12                 | Dam Embankments       | Golden Gate and Sites Dam Transition Zones                | The current width of transition zones is 10' feet. Risk of widths to increase 25%                                                                                                                                                                              | VL                    | L     | VL       | L     |       | L      | L        | 3%                              | 13%   | 3%       | 13%   |       | 13%    | 13%      | 10%     |
|                         |                       |                                                           | Items not Reviewed                                                                                                                                                                                                                                             |                       |       |          |       |       |        |          |                                 |       |          |       |       |        |          |         |
| Golden Gate Dam - Total |                       |                                                           |                                                                                                                                                                                                                                                                |                       |       |          |       |       |        |          |                                 |       |          |       |       |        |          |         |

Sites Reservoir: Design Contingency  
30% Cost Estimate  
Sites, CA

Contingency Analysis

HR - Reservoir Contingency

| ID            | Category              | Scope                                               | Risk Description                                                                                                                                                                                                                                                                                       | Score Card Values LMH |       |          |       |       |        |          | Score Card Values Probability % |       |          |       |       |        |          |         |
|---------------|-----------------------|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------|----------|-------|-------|--------|----------|---------------------------------|-------|----------|-------|-------|--------|----------|---------|
|               |                       |                                                     |                                                                                                                                                                                                                                                                                                        | Forrest               | Smith | Aldridge | Kehoe | Schug | Hertel | Haugaard | Forrest                         | Smith | Aldridge | Kehoe | Schug | Hertel | Haugaard | Average |
| Sites Dam     |                       |                                                     |                                                                                                                                                                                                                                                                                                        |                       |       |          |       |       |        |          |                                 |       |          |       |       |        |          |         |
| HR-S-01A      | Embankment Foundation | Sites Dam Foundation Excavation                     | Estimate assumes 15' excavation depth based on limited information. Risk: The excavation may increase 5'.                                                                                                                                                                                              | L                     | M     | M        | M     | L     | L      | M        | 13%                             | 31%   | 31%      | 31%   | 13%   | 13%    | 31%      | 23%     |
| HR-S-01B      | Embankment Foundation | Sites Dam Foundation Excavation                     | Estimate assumes 15' excavation depth based on limited information. Risk: The excavation may increase 10'.                                                                                                                                                                                             | L                     | L     | VL       | L     | VL    | VL     | L        | 13%                             | 13%   | 3%       | 13%   | 3%    | 3%     | 13%      | 9%      |
| HR-S-01C      | Embankment Foundation | Sites Dam Foundation Excavation                     | Estimate assumes 15' excavation depth based on limited information. Risk: The excavation may increase 15'.                                                                                                                                                                                             | VL                    | VL    | VL       | VL    | VL    | VL     | VL       | 3%                              | 3%    | 3%       | 3%    | 3%    | 3%     | 3%       | 3%      |
| HR-S-02       | Embankment Foundation | Sites Dam Foundation Excavation                     | A landslide is assumed in the dam foundation based on geomorphology. A deep landslide may occur. Risk: A unidentified significant landslide 20% of the excavation volume 100,000 cy) .                                                                                                                 | M                     | L     | M        | L     | L     | VL     | H        | 31%                             | 13%   | 31%      | 13%   | 13%   | 3%     | 56%      | 23%     |
| HR-S-03       | Embankment Foundation | Sites Dam Grout Curtain                             | The estimate assumes mandatory primary, secondaries, 50% tertiary , 50% allowance for higher order holes 65k LF and 240 Holes Risk: Assume increases to 100% tertiary, which results in 80k LF and 345 Holes                                                                                           | L                     | M     | L        | L     | L     | L      |          | 13%                             | 31%   | 13%      | 13%   | 13%   | 13%    |          | 16%     |
| HR-S-04       | Embankment Foundation | Sites Dam Consolidation grouting                    | Sites does not include consolidation grout. Risk: Assumes 4 rows of consolidation grout holes (2 upstream and 2 downstream) Assume 20 foot spacing and 30 foot depth along the valley length of 1,020 feet.                                                                                            | M                     | M     | L        | L     | VL    | L      |          | 31%                             | 31%   | 13%      | 13%   | 3%    | 13%    |          | 17%     |
| HR-S-05       | Embankment Borrow     | Sites Core Borrow                                   | Materials inside the reservoir are likely to be dispersive. Core materials may be borrowed for the TRR outside the reservoir area which increases the haul distance from 2 miles to 8 miles. Additional Haul Sites 280k CY                                                                             | H                     | H     | VH       | M     | M     | H      | H        | 56%                             | 56%   | 86%      | 31%   | 31%   | 56%    | 56%      | 53%     |
| HR-S-06       | Dam Embankments       | Sites Dam Core widths increase                      | The core slopes are currently 0.25:1 (H:V). Risk: Further design may increase core width to 0.5:1 (H:V).                                                                                                                                                                                               | M                     | M     | M        | M     |       | L      | M        | 31%                             | 31%   | 31%      | 31%   |       | 13%    | 31%      | 28%     |
| HR-S-07       | Dam Embankments       | Sites Dam Embankment Upstream and Downstream Slopes | Sites = 280k to 560k CY of Core<br>The embankment downstream slopes are currently 2:1 and have the potential to increase to 2.5:1 (H:V).<br>The embankment upstream slopes are 2.25:1 and have the potential to increase to 3:1 (H:V).<br>Risk: - The Sites embankment increases from 2.65M to 3.5M CY | M                     | L     | M        | L     |       | M      | L        | 31%                             | 13%   | 31%      | 13%   |       | 31%    | 13%      | 22%     |
| HR-S-08       | Embankment Borrow     | Sites Rock Borrow Stripping and Overburden Removal  | Currently assume 8 feet of overburden. Risk: This may grow to 16 feet                                                                                                                                                                                                                                  | L                     | L     | VL       | L     | VL    | VL     | M        | 13%                             | 13%   | 3%       | 13%   | 3%    | 3%     | 31%      | 11%     |
| HR-S-9A       | Embankment Borrow     | Sites Rock Borrow Quality                           | After removal of the overburden the estimate assumes 10% unsuitable material. Risk: This may grow to 25%                                                                                                                                                                                               | M                     | M     | L        | L     | L     | L      | M        | 31%                             | 31%   | 13%      | 13%   | 13%   | 13%    | 31%      | 21%     |
| HR-S-09B      | Embankment Borrow     | Sites Rock Borrow Quality                           | After removal of the overburden the estimate assumes 10% unsuitable material. Risk: This may grow to 35%                                                                                                                                                                                               | L                     | L     | VL       | VL    | VL    | VL     | L        | 13%                             | 13%   | 3%       | 3%    | 3%    | 3%     | 13%      | 7%      |
| HR-S-10       | Dam Embankments       | Sites Dam Filter and Drain Zones                    | Currently the Filter and Drain Widths are 12 feet and 8' feet respectively. Risk: Further design may require increased filter and drains width of 15 Feet and 10 Feet which would increase Filters and Drains by 25%                                                                                   | VL                    | L     | VL       | L     |       | VL     | L        | 3%                              | 13%   | 3%       | 13%   |       | 3%     | 13%      | 8%      |
| HR-S-11       | Dam Embankments       | Sites Dam Transition Zones                          | The estimate assumes 47k cy of Zone 4A and 114k cy of zone 4B are produced on site. Risk: Unable to make transitions for Golden Gate and Sites Dams on site. Need to                                                                                                                                   | VL                    | VL    | L        | L     |       | L      | L        | 3%                              | 3%    | 13%      | 13%   |       | 13%    | 13%      | 10%     |
| HR-S-12       | Dam Embankments       | Sites Dam Transition Zones                          | The current width of transition zones is 10' feet. Risk of widths to increase 25%                                                                                                                                                                                                                      | VL                    | L     | VL       | L     |       | L      | L        | 3%                              | 13%   | 3%       | 13%   |       | 13%    | 13%      | 10%     |
|               |                       |                                                     | Items not Reviewed                                                                                                                                                                                                                                                                                     |                       |       |          |       |       |        |          |                                 |       |          |       |       |        |          |         |
| Sites - Total |                       |                                                     |                                                                                                                                                                                                                                                                                                        |                       |       |          |       |       |        |          |                                 |       |          |       |       |        |          |         |

Contingency Analysis

HR - Reservoir Contingency

| ID                       | Category              | Scope                                 | Risk Description                                                                                                                                                                                                                  | Score Card Values LMH |           |          |       |       |        |          | Score Card Values Probability % |       |          |       |       |        |          |         |
|--------------------------|-----------------------|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------|----------|-------|-------|--------|----------|---------------------------------|-------|----------|-------|-------|--------|----------|---------|
|                          |                       |                                       |                                                                                                                                                                                                                                   | Forrest               | Smith     | Aldridge | Kehoe | Schug | Hertel | Haugaard | Forrest                         | Smith | Aldridge | Kehoe | Schug | Hertel | Haugaard | Average |
| Saddle Dams and Spillway |                       |                                       |                                                                                                                                                                                                                                   | Pujol                 | Tollefson | Crampton |       |       |        |          |                                 |       |          |       |       |        |          |         |
| HR-SD-01A                | Embankment Foundation | Saddle Dam Foundation Excavation      | Estimate assumes 15' excavation depth based on limited information. Risk: The excavation may increase 5'.                                                                                                                         | M                     | H         | H        |       |       |        |          | 31%                             | 56%   | 56%      |       |       |        |          | 47%     |
| HR-SD-01B                | Embankment Foundation | Saddle Dam Foundation Excavation      | Estimate assumes 15' excavation depth based on limited information. Risk: The excavation may increase 10'.                                                                                                                        | L                     | L         | M        |       |       |        |          | 13%                             | 13%   | 31%      |       |       |        |          | 19%     |
| HR-SD-01C                | Embankment Foundation | Saddle Dam Foundation Excavation      | Estimate assumes 15' excavation depth based on limited information. Risk: The excavation may increase 15'.                                                                                                                        | VL                    | VL        | L        |       |       |        |          | 3%                              | 3%    | 13%      |       |       |        |          | 6%      |
| HR-SD-02                 | Embankment Foundation | Saddle Dam Foundation Excavation      | No landslides are assumed in the dam foundation based on geomorphology. Risk: A significant landslide 20% of the excavation volume.                                                                                               | VL                    | L         | L        |       |       |        |          | 3%                              | 13%   | 13%      |       |       |        |          | 10%     |
| HR-SD-03                 | Embankment Foundation | Saddle Dam Grout Curtain              | The estimate assumes mandatory primary, secondaries, 50% tertiary , 50% allowance for higher order holes or 260k LF and 2740 Holes<br>Risk: Assume increases to 100% tertiary, which results in 355k LF and 3900 Holes            | M                     | L         | M        |       |       |        |          | 31%                             | 13%   | 31%      |       |       |        |          | 25%     |
| HR-SD-04                 | Rim Grout             | Rim Grout                             | The estimate includes 51,300 LF of rim grout.<br>Risk: Rim grout increases by 100% to 102.5k lf                                                                                                                                   | H                     | H         | M        |       |       |        |          | 56%                             | 56%   | 31%      |       |       |        |          | 47%     |
| HR-SD-05A                | Embankment Borrow     | Saddle Dam Core Borrow                | Materials inside the reservoir are likely to be dispersive. Core materials may be borrowed for the TRR outside the reservoir area which increases the haul distance from 2 miles to 8 miles. Additional Haul Distance for 690k CY | L                     | H         | M        |       |       |        |          | 13%                             | 56%   | 31%      |       |       |        |          | 33%     |
| HR-SD-06                 | Dam Embankments       | Saddle Dam Core widths increase       | The core slopes are currently 0.25:1 (H:V). Risk: Further design may increase core width to 0.5:1 (H:V).<br>Saddles = 690k to 1,380k CY of Core                                                                                   | VL                    | L         | L        |       |       |        |          | 3%                              | 13%   | 13%      |       |       |        |          | 10%     |
| HR-SD-07                 | Dam Embankments       | Spillway                              | The spillway is a small structure. The desing is based on 3,900 CY of concrete. Future studies may increase this volume.<br>Risk the spillway increases by 100%.                                                                  | M                     | M         | M        |       |       |        |          | 31%                             | 31%   | 31%      |       |       |        |          | 31%     |
| HR-SD-08                 | Not Used              | Not Used                              | Not Used                                                                                                                                                                                                                          |                       |           |          |       |       |        |          |                                 |       |          |       |       |        |          | 0%      |
| HR-SD-09A                | Embankment Borrow     | Saddle Random Borrow                  | Estimate assumes little waste. The random borrow areas may have rocks, poor soils, or other unsuitable materials.<br>Risk 15% Waste                                                                                               | L                     | M         | M        |       |       |        |          | 13%                             | 31%   | 31%      |       |       |        |          | 25%     |
| HR-SD-09B                | Embankment Borrow     | Saddle Random Borrow                  | Estimate assumes little waste. The random borrow areas may have rocks, poor soils, or other unsuitable materials.<br>Risk 30% Waste                                                                                               | VL                    | L         | M        |       |       |        |          | 3%                              | 13%   | 31%      |       |       |        |          | 15%     |
| HR-SD-10                 | Dam Embankments       | Saddle Filter and Drain Zones         | Currently the Filter and Drain Widths are 6 feet and 6' feet respectively.<br>Risk: Further design may require increased filter and drains width to increase by 25%                                                               | L                     | M         | M        |       |       |        |          | 13%                             | 31%   | 31%      |       |       |        |          | 25%     |
| HR-SD-11                 | Not Used              | Not Used                              | Not Used                                                                                                                                                                                                                          |                       | --        |          |       |       |        |          |                                 |       |          |       |       |        |          | 0%      |
| HR-SD-12                 | Dam Embankments       | Saddle and Sites Dam Transition Zones | The current width of transition zones is 6' feet.<br>Risk of widths to increase by 25%                                                                                                                                            | L                     | M         | M        |       |       |        |          | 13%                             | 31%   | 31%      |       |       |        |          | 25%     |
|                          |                       |                                       | Items not Reviewed                                                                                                                                                                                                                |                       |           |          |       |       |        |          |                                 |       |          |       |       |        |          |         |
| Saddle Dams and Spillway |                       |                                       |                                                                                                                                                                                                                                   |                       |           |          |       |       |        |          |                                 |       |          |       |       |        |          |         |

Sites Reservoir: Design Contingency  
30% Cost Estimate  
Sites, CA

Contingency Analysis

HR - Reservoir Contingency

| ID                                  | Category | Scope                              | Risk Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Score Card Values LMH |       |          |       |       |        |          | Score Card Values Probability % |       |          |       |       |        |          |         |
|-------------------------------------|----------|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------|----------|-------|-------|--------|----------|---------------------------------|-------|----------|-------|-------|--------|----------|---------|
|                                     |          |                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Forrest               | Smith | Aldridge | Kehoe | Schug | Hertel | Haugaard | Forrest                         | Smith | Aldridge | Kehoe | Schug | Hertel | Haugaard | Average |
| Hydraulic Structures - Inlet Outlet |          |                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                       |       |          |       |       |        |          |                                 |       |          |       |       |        |          |         |
| HR-24                               | I/O      | Tunnel Excavation Ground Stability | The 30% design assumes a 50/50 initial ground supports mix. If ground is not as stable there will be decrease in excavation rate, additional stabilization measures (steel sets, grouting etc).<br>Risk: Increase in poor ground from 50 to 75 percent, i.e. 75/25.                                                                                                                                                                                                                                        | L                     | L     | L        | L     | L     | M      | L        | 13%                             | 13%   | 13%      | 13%   | 13%   | 31%    | 13%      | 16%     |
| HR-25                               | I/O      | Tunnel Excavation Ground Water     | Very little data available for the tunnel. Assumed some perched water in the rim and exploration holes and dewatering. If water inflows are greater and it is required to grout ahead of the tunnel and/or dewatering increased to stabilize the excavation then the excavation rate will slow and additional efforts will be required.<br>Risk: Water inflows are greater than expected. Impacts additional 20 percent of tunnel requiring more dewatering, grouting ahead and slowed rate of excavation. | H                     | M     | H        | M     | L     | L      | M        | 56%                             | 31%   | 56%      | 31%   | 13%   | 13%    | 31%      | 33%     |
| HR-26                               | I/O      | Tunnel Excavation Fault Crossing   | Very little data available for the tunnel. Assumed no faults cross the tunnel. There are faults in the area and are currently mapped on either side.<br>Risk: A fault is identified crossing the tunnel and there is a need to design for fault rupture potential. This is a special design to provide the ability to accommodate fault offset but maintain full function of the I/O works.                                                                                                                | L                     | L     | L        | L     | L     | M      |          | 13%                             | 13%   | 13%      | 13%   | 13%   | 31%    |          | 16%     |
| HR-27                               | I/O      | Foundation Excavation              | The I/O structure is on a cut slope in the Boxer formation which is predominantly mudstone. There is very little geotechnical data to confirm the depth of suitable foundation rock. Risk: The depth of suitable foundation rock is 5 feet lower requiring reconfiguration of the I/O structure and additional excavation.                                                                                                                                                                                 | M                     | M     | M        | M     | M     | M      | M        | 31%                             | 31%   | 31%      | 31%   | 31%   | 31%    | 31%      | 31%     |
|                                     |          |                                    | Assume 10' Increases to 20'                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                       |       |          |       |       |        |          |                                 |       |          |       |       |        |          |         |
| HR-28                               | I/O      | Portal Excavation                  | The I/O inlet portal and structure is on a cut slope in the Boxer formation which is predominantly mudstone. There is very little geotechnical data. There are no visible signs of a landslide, but there are no borings to confirm. Risk: There is a landslide in the portal rock requiring reconfiguration of the I/O structure and additional excavation. Assumed the excavation increases by 25% or 66k CY                                                                                             | H                     | M     | M        | M     | M     | L      | M        | 56%                             | 31%   | 31%      | 31%   | 31%   | 13%    | 31%      | 32%     |
| a                                   | I/O      | I/O Configuration                  | The I/O has been evolved from a tower to a sloping intake. Other configurations have been discussed including a shaft with adits and a socketed tower.<br>Risk: Regulatory agencies require a different configuration.                                                                                                                                                                                                                                                                                     | M                     | H     | M        | H     | M     | H      | M        | 31%                             | 56%   | 31%      | 56%   | 31%   | 56%    | 31%      | 41%     |
| HR-28A                              | I/O      | Tunnel Steel Field Fabrication     | The I/O Tunnel is 18.5' in diameter. A vendor has confirmed the pipe can be shipped however a detailed logistics study has not been performed.<br>Risk - The pipe must be fabricated on site resulting in a unit price increase.                                                                                                                                                                                                                                                                           | L                     | M     | L        | M     | L     | M      | L        | 13%                             | 31%   | 13%      | 31%   | 13%   | 31%    | 13%      | 21%     |
|                                     |          |                                    | Items not Reviewed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                       |       |          |       |       |        |          |                                 |       |          |       |       |        |          |         |
|                                     |          |                                    | Sites Diversion Allowance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |       |          |       |       |        |          |                                 |       |          |       |       |        |          |         |
|                                     |          |                                    | Sites Diversion Allowance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                       |       |          |       |       |        |          |                                 |       |          |       |       |        |          |         |
| Hydraulic Structures - Total        |          |                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                       |       |          |       |       |        |          |                                 |       |          |       |       |        |          |         |

Contingency Analysis

HR - Reservoir Contingency

| ID              | Category | Scope                        | Risk Description                                                                                                                                                                                                                                                                                                                                                | Score Card Values LMH |       |          |       |       |        |          | Score Card Values Probability % |       |          |       |       |        |          |         |
|-----------------|----------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-------|----------|-------|-------|--------|----------|---------------------------------|-------|----------|-------|-------|--------|----------|---------|
|                 |          |                              |                                                                                                                                                                                                                                                                                                                                                                 | Forrest               | Smith | Aldridge | Kehoe | Schug | Hertel | Haugaard | Forrest                         | Smith | Aldridge | Kehoe | Schug | Hertel | Haugaard | Average |
| Roads & Bridges |          |                              |                                                                                                                                                                                                                                                                                                                                                                 |                       |       |          |       |       |        |          |                                 |       |          |       |       |        |          |         |
| HR-29           | Roads    | New Road Added               | Risk: As the design progresses an additional permanent road may be added. This could be a road from the I/O to the Golden Gate Dam along the high water and connecting to the Sites Lodoga, or it could be additional length of roads to avoid areas with impacts to community.<br>Cost Assumption - 2.0 Miles in mountainous terrain similar to the SLR Detour | H                     | H     | M        | M     |       | M      | H        | 56%                             | 56%   | 31%      | 31%   |       | 31%    | 56%      | 43%     |
| HR-30           | Roads    | Structural Section           | Risk: Structural Sections, Agg Base and Asphalt increase by 25%                                                                                                                                                                                                                                                                                                 | L                     | L     | L        | L     |       | M      | L        | 13%                             | 13%   | 13%      | 13%   |       | 31%    | 13%      | 16%     |
| HR-31           | Roads    | Excavation - Rock Excavation | Rock excavation is included in the estimate as 60% of the total excavation.<br>Risk: Rock excavation may increase to 80%.                                                                                                                                                                                                                                       | M                     | M     | L        | M     |       | L      | M        | 31%                             | 31%   | 13%      | 31%   |       | 13%    | 31%      | 25%     |
| HR-32           | Roads    | Retaining Walls              | Risk: Retaining walls increase from 225k sf to 550k sf or wall types change.                                                                                                                                                                                                                                                                                    | H                     | M     | M        | M     |       | M      | H        | 56%                             | 31%   | 31%      | 31%   |       | 31%    | 56%      | 39%     |
| HR-33           | Bridge   | Bridge Foundations           | Bridge foundation volume and pile increases based on geotechnical conditions.<br><br>All increase by 25%                                                                                                                                                                                                                                                        | VH                    | M     | M        | L     |       | M      | VL       | 86%                             | 31%   | 31%      | 13%   |       | 31%    | 3%       | 32%     |
| HR-33           | Bridge   | Bridge Height                | The SLR bridge is at elevation increases 10 Feet .<br><br>See qty calcs                                                                                                                                                                                                                                                                                         | VH                    | M     | M        | L     |       | M      | VL       | 86%                             | 31%   | 31%      | 13%   |       | 31%    | 3%       | 32%     |
| HR-34           | Bridge   | Bridge Type                  | Bridge type is revised from an Spliced Girder Bridge to Cantilever Bridge resulting in a significant cost increase.<br><br>Assume 100% increase to all costs above the columns.                                                                                                                                                                                 | M                     | VL    | L        | L     |       | M      |          | 31%                             | 3%    | 13%      | 13%   |       | 31%    |          | 18%     |
| HR-35           | Roads    |                              | Allowances were included in the design for animal crossings. With futher studies and design these could change.<br>Risk - Animal Crossings increase by 100%.                                                                                                                                                                                                    | M                     | H     | M        | H     | M     | H      | M        | 31%                             | 56%   | 31%      | 56%   |       | 56%    | 31%      | 43%     |
| HR-36           | Roads    |                              | Allowances are included in the estimate for the drainage features along the roads.<br>Risk - Futher studies increase quantity and size of the drainage features by 50%.                                                                                                                                                                                         | M                     | H     | M        | H     | M     | H      | M        | 31%                             | 56%   | 31%      | 56%   |       | 56%    | 31%      | 43%     |
| HR-37           | Roads    |                              | 68, 69, D road improvements are full depth reclamation and the roads stay at the same elevation.<br>Risk - Road elevation need to be increased to reduce flooding risk. Risk - The cost of the road improvements increase by 100%.                                                                                                                              | M                     | H     | M        | H     | M     | H      | M        | 31%                             | 56%   | 31%      | 56%   |       | 56%    | 31%      | 43%     |
|                 |          |                              | Items not Reviewed                                                                                                                                                                                                                                                                                                                                              |                       |       |          |       |       |        |          |                                 |       |          |       |       |        |          |         |
| Roads - Total   |          |                              |                                                                                                                                                                                                                                                                                                                                                                 |                       |       |          |       |       |        |          |                                 |       |          |       |       |        |          |         |

Notes

This document addresses design contingency  
There is no "mitigation" of risk at this time. This document establishes a contingency based on what we know today.  
Only cost drivers are considered. Item not revied assume a risk cost of 33% and a probability of 20%.  
HR - Construction contingency will be carried at 15%.  
Owners and/or program and/or other contingencies may be carried above and beyond the design and construction contingency.

Dams Quantity Calculations

1A,B,C - Foundation Excavation Volume

| Golden Gate    |                        |                   |                           |                 |                   | Sites          |                        |                   |                           |                 |                   | Saddles           |                   | Notes |
|----------------|------------------------|-------------------|---------------------------|-----------------|-------------------|----------------|------------------------|-------------------|---------------------------|-----------------|-------------------|-------------------|-------------------|-------|
| Avg Depth (FT) | Excavation Volume (CY) | Excavation Factor | Difference in Volume (CY) | EMB Volume (CY) | Embankment Factor | Avg Depth (FT) | Excavation Volume (CY) | Excavation Factor | Difference in Volume (CY) | EMB Volume (CY) | Embankment Factor | Excavation Factor | Embankment Factor |       |
| 15             | 1,266,000              | 1.00              | -                         | 7,566,700       | 1.00              | 15             | 417,000                | 1.00              | -                         | 2,594,400       | 1.00              | 1.00              | 1.00              |       |
| 20             | 1,688,000              | 1.33              | 422,000                   | 7,988,700       | 1.06              | 20             | 556,000                | 1.33              | 139,000                   | 2,733,400       | 1.05              | 1.33              | 1.05              |       |
| 25             | 2,110,000              | 1.67              | 844,000                   | 8,410,700       | 1.11              | 25             | 695,000                | 1.67              | 278,000                   | 2,872,400       | 1.11              | 1.67              | 1.11              |       |
| 30             | 2,532,000              | 2.00              | 1,266,000                 | 8,832,700       | 1.17              | 30             | 834,000                | 2.00              | 417,000                   | 3,011,400       | 1.16              | 2.00              | 1.16              |       |

2 - Landslide Volume

| Golden Gate |                        |                   |                           |                 |                   | Sites       |                        |                   |                           |                 |                   | Landslide Factor | Embankment Factor |         |
|-------------|------------------------|-------------------|---------------------------|-----------------|-------------------|-------------|------------------------|-------------------|---------------------------|-----------------|-------------------|------------------|-------------------|---------|
| Addl Volume | Excavation Volume (CY) | Excavation Factor | Difference in Volume (CY) | EMB Volume (CY) | Embankment Factor | Addl Volume | Excavation Volume (CY) | Excavation Factor | Difference in Volume (CY) | EMB Volume (CY) | Embankment Factor |                  |                   |         |
|             | 1,266,000              | 1.00              | -                         | 7,566,700       | 1.00              |             | 417,000                | 1.00              | -                         | 2,594,400       | 1.00              |                  |                   |         |
| 300,000     | 1,566,000              | 1.19              | 300,000                   | 7,866,700       | 1.04              | 100,000     | 517,000                | 1.19              | 100,000                   | 2,694,400       | 1.04              | 1.19             | 1.04              | Average |

3 - Curtain Grout - 100% Tertiary

| Golden Gate |             |        |  |  |  | Sites       |             |        |  |  |  | Curtain Grout |  |                           |
|-------------|-------------|--------|--|--|--|-------------|-------------|--------|--|--|--|---------------|--|---------------------------|
| Addl Length | Grout (VLF) | Factor |  |  |  | Addl Length | Grout (VLF) | Factor |  |  |  |               |  |                           |
|             | 150,900     |        |  |  |  |             | 79,700      |        |  |  |  |               |  |                           |
| 50,000      | 200,900     | 1.25   |  |  |  | 15,000      | 94,700      | 1.16   |  |  |  | 1.20          |  | Average, 75% Higher Order |

4 - Consolidation Grout

| Golden Gate |             |        |  |  |  | Sites       |             |        |  |  |  | Rim Grout |  |                    |
|-------------|-------------|--------|--|--|--|-------------|-------------|--------|--|--|--|-----------|--|--------------------|
| Addl Length | Grout (VLF) | Factor |  |  |  | Addl Length | Grout (VLF) | Factor |  |  |  |           |  |                    |
|             | 150,900     |        |  |  |  |             | 79,700      |        |  |  |  |           |  |                    |
| 14,400      | 165,300     | 1.09   |  |  |  | 6,120       | 85,820      | 1.07   |  |  |  | 200%      |  | Reflects Rim Grout |

5 - Dispersive Core

| Golden Gate   |              |        |             |           |  | Sites         |              |        |             |           |  |  |  |                 |
|---------------|--------------|--------|-------------|-----------|--|---------------|--------------|--------|-------------|-----------|--|--|--|-----------------|
| Haul Distance | Haul (Miles) | Factor | Volume (CY) | Rate (\$) |  | Haul Distance | Haul (Miles) | Factor | Volume (CY) | Rate (\$) |  |  |  |                 |
|               | 3            |        | 1,060,000   |           |  |               | 3            |        | 280,000     |           |  |  |  |                 |
| 5             | 8            | 1.63   | 1,060,000   |           |  | 5             | 8            | 1.63   | 280,000     |           |  |  |  | Rate Adjustment |

6 - Core Width

| Golden Gate |      |        |             |                 |                   | Sites  |      |        |             |                 |                   |      |  |  |
|-------------|------|--------|-------------|-----------------|-------------------|--------|------|--------|-------------|-----------------|-------------------|------|--|--|
| Slope       | Area | Factor | Volume (CY) | EMB Volume (CY) | Embankment Factor | Slope  | Area | Factor | Volume (CY) | EMB Volume (CY) | Embankment Factor |      |  |  |
| 0.25:1      | 0.13 |        | 1,060,000   | 7,566,700       |                   | 0.25:1 | 0.13 |        | 280,000     | 2,594,400       |                   |      |  |  |
| 0.5:1       | 0.25 | 2.00   | 2,120,000   | 6,506,700       | 0.86              | 0.5:1  | 0.25 | 2.00   | 560,000     | 2,314,400       | 0.89              | 2.00 |  |  |

7 - Embankment Slopes

| Golden Gate        |           |          |           |            |                   | Sites             |           |          |           |            |                   |      |  |                                |
|--------------------|-----------|----------|-----------|------------|-------------------|-------------------|-----------|----------|-----------|------------|-------------------|------|--|--------------------------------|
| Slope              | Area DS   | Slope    | Area US   | Total Area | Embankment Factor | Slope             | Area DS   | Slope    | Area US   | Total Area | Embankment Factor |      |  |                                |
| Downstream         |           | Upstream |           |            |                   | Downstream        |           | Upstream |           |            |                   |      |  |                                |
| 2:1                | 1.00      | 2.25:1   | 1.13      | 2.1        |                   | 2:1               | 1.00      | 2.25:1   | 1.13      | 2.1        |                   |      |  |                                |
| 2.5:1              | 1.25      | 3:1      | 1.50      | 2.8        | 1.29              | 2.5:1             | 1.25      | 3:1      | 1.50      | 2.8        | 1.29              |      |  | Already 3.25:1 US and 2.5:1 DS |
| Embankment (CY)    | 7,566,700 | 1.29     | 9,792,200 |            |                   | Embankment (CY)   | 2,594,400 | 1.29     | 3,357,459 |            |                   |      |  |                                |
| Core and F&D (CY)  | 2,988,000 | 100%     | 2,988,000 |            |                   | Core and F&D (CY) | 571,500   | 100%     | 571,500   |            |                   |      |  |                                |
| Rockfill (CY)      | 4,578,700 | 149%     | 6,804,200 |            |                   | Rockfill (CY)     | 2,022,900 | 138%     | 2,785,959 |            |                   |      |  |                                |
| Foundation Ex (CY) |           | 122%     |           |            |                   |                   |           | 122%     |           |            |                   |      |  |                                |
| Spillway           |           |          |           |            |                   |                   |           |          |           |            |                   | 200% |  | Spillway Volume                |

**8 - Borrow Overburden****Golden Gate**

| Avg Depth (FT) | Excavation Volume (CY) | Factor | Difference in Volume (CY) |  |  |
|----------------|------------------------|--------|---------------------------|--|--|
| 8              | 1,604,100              | 1.00   | -                         |  |  |
| 16             | 3,208,200              | 2.00   | 1,604,100                 |  |  |

**Sites**

| Avg Depth (FT) | Excavation Volume (CY) | Factor | Difference in Volume (CY) |  |  |      |  |                     |
|----------------|------------------------|--------|---------------------------|--|--|------|--|---------------------|
| 8              | 589,900                | 1.00   | -                         |  |  |      |  |                     |
| 16             | 1,179,800              | 2.00   | 589,900                   |  |  | 200% |  | Used on Core Borrow |

**9 - Unsuitable Borrow Material - Waste****Golden Gate**

| % Waste | Excavation Volume (CY) | Factor | Difference in Volume (CY) |  |  |
|---------|------------------------|--------|---------------------------|--|--|
| 15%     | 1,019,700              | 1.00   | -                         |  |  |
| 25%     | 1,699,500              | 1.67   | 679,800                   |  |  |
| 35%     | 2,379,300              | 2.33   | 1,359,600                 |  |  |

**Sites**

| % Waste | Excavation Volume (CY) | Factor | Difference in Volume (CY) |  |  |      |  |                                    |
|---------|------------------------|--------|---------------------------|--|--|------|--|------------------------------------|
| 15%     | 377,600                | 1.00   | -                         |  |  |      |  |                                    |
| 25%     | 629,333                | 1.67   | 251,733                   |  |  | 1.67 |  |                                    |
| 35%     | 881,067                | 2.33   | 503,467                   |  |  | 2.33 |  | Poor core borrow, waste and raking |

**10 - Filter and Drain Width****Golden Gate**

| Zone         | Design (W FT) | Risk (W FT) | Factor      | Design Volume  | Risk Volume    |
|--------------|---------------|-------------|-------------|----------------|----------------|
| Filter       | 12            | 15          | 1.25        | 245,900        |                |
| Drain        | 8             | 10          | 1.25        | 177,800        |                |
| <b>Total</b> | <b>20</b>     | <b>25</b>   | <b>1.25</b> | <b>423,700</b> | <b>529,625</b> |

**Sites**

| Zone         | Design (W FT) | Risk (W FT) | Factor      | Design Volume  | Risk Volume    |             |  |  |
|--------------|---------------|-------------|-------------|----------------|----------------|-------------|--|--|
| Filter       | 12            | 15          | 1.25        | 76,000         |                |             |  |  |
| Drain        | 8             | 10          | 1.25        | 57,900         |                |             |  |  |
| <b>Total</b> | <b>20</b>     | <b>25</b>   | <b>1.25</b> | <b>133,900</b> | <b>167,375</b> | <b>1.25</b> |  |  |

**11 - Transition Produced Offsite****Golden Gate**

| Zone         | Design Volume  |                                       |  |  |  |
|--------------|----------------|---------------------------------------|--|--|--|
| Zone 4A      | 153,000        |                                       |  |  |  |
| Zone 4B      | 350,000        |                                       |  |  |  |
| <b>Total</b> | <b>503,000</b> | No Qty Revision - Unit Price Revision |  |  |  |

**Sites**

| Zone         | Design Volume  |                                       |  |  |  |  |  |                          |
|--------------|----------------|---------------------------------------|--|--|--|--|--|--------------------------|
| Zone 4A      | 47,000         |                                       |  |  |  |  |  |                          |
| Zone 4B      | 350,000        |                                       |  |  |  |  |  |                          |
| <b>Total</b> | <b>397,000</b> | No Qty Revision - Unit Price Revision |  |  |  |  |  | Already produced offsite |

**12 - Transition Width****Golden Gate**

| Zone            | Design (W FT) | Risk (W FT) | Factor      | Design Volume  | Risk Volume    |
|-----------------|---------------|-------------|-------------|----------------|----------------|
| Zone 4A         | 10            | 12.5        | 1.25        | 47,000         |                |
| Zone 4B (US/DS) | 10            | 12.5        | 1.25        | 113,700        |                |
| <b>Total</b>    | <b>20</b>     | <b>25</b>   | <b>1.25</b> | <b>160,700</b> | <b>200,875</b> |

**Sites**

| Zone            | Design (W FT) | Risk (W FT) | Factor      | Design Volume  | Risk Volume    |             |  |  |
|-----------------|---------------|-------------|-------------|----------------|----------------|-------------|--|--|
| Zone 4A         | 10            | 12.5        | 1.25        | 47,000         |                |             |  |  |
| Zone 4B (US/DS) | 10            | 12.5        | 1.25        | 350,000        |                |             |  |  |
| <b>Total</b>    | <b>20</b>     | <b>25</b>   | <b>1.25</b> | <b>397,000</b> | <b>496,250</b> | <b>1.25</b> |  |  |

**Sites Reservoir**  
**Golden Gate Dam Contingency Estimates**  
**Sites, CA**

**Cost Estimate**  
**AACEI Class 3**  
**February 27, 2025**

| Construction Cost Estimate                         |                     |                           |                     |                     |                     |                   |
|----------------------------------------------------|---------------------|---------------------------|---------------------|---------------------|---------------------|-------------------|
|                                                    |                     | 30% Design 15' Excavation | 1A - 20' Excavation | 1B - 25' Excavation | 1C - 30' Excavation | 300k CY Landslide |
| Total Direct Cost (\$)                             |                     | 365,154,120               | 386,736,233         | 408,318,346         | 429,900,459         | 378,856,568       |
| TOTAL DIRECT COST BEFORE CONTRACTOR INDIRECT COSTS |                     | 365,154,120               | 386,736,233         | 408,318,346         | 429,900,459         | 378,856,568       |
| Mobilization                                       | 5.0%                | 18,257,706                | 19,336,812          | 20,415,917          | 21,495,023          | 18,942,828        |
| Field Overhead Costs (GC&GR)                       | 17.0%               | 65,180,010                | 69,032,418          | 72,884,825          | 76,737,232          | 67,625,897        |
| Insurance                                          | 2.0%                | 8,971,837                 | 9,502,109           | 10,032,382          | 10,562,654          | 9,308,506         |
| Bonds                                              | 0.6%                | 2,745,382                 | 2,907,645           | 3,069,909           | 3,232,172           | 2,848,403         |
| Total Contractor Indirect Costs                    |                     | 95,154,935                | 100,778,984         | 106,403,033         | 112,027,081         | 98,725,634        |
| TOTAL CONTRACTOR COSTS                             |                     | 460,309,055               | 487,515,217         | 514,721,379         | 541,927,540         | 477,582,202       |
| Home Office Overhead (G&A)                         | 6.5%                | 29,920,089                | 31,688,489          | 33,456,890          | 35,225,290          | 31,042,843        |
| GC Profit                                          | 10.0%               | 49,022,914                | 51,920,371          | 54,817,827          | 57,715,283          | 50,862,505        |
| Total Contractor Overhead and Profit               |                     | 78,943,003                | 83,608,860          | 88,274,717          | 92,940,573          | 81,905,348        |
| TOTAL CONSTRUCTION COST BEFORE CONTINGENCIES       |                     | 539,252,058               | 571,124,077         | 602,996,096         | 634,868,113         | 559,487,550       |
| Contingencies                                      |                     |                           |                     |                     |                     |                   |
| Design Contingencies                               | 10.0%               | 53,925,206                | 57,112,408          | 60,299,610          | 63,486,811          | 55,948,755        |
| Construction Contingencies                         | 15.0%               | 88,976,590                | 94,235,473          | 99,494,356          | 104,753,239         | 92,315,446        |
| Total Contingency Allowance                        |                     | 142,901,796               | 151,347,881         | 159,793,966         | 168,240,050         | 148,264,201       |
| TOTAL COST BEFORE ESCALATION                       |                     | 682,153,854               | 722,471,958         | 762,790,062         | 803,108,163         | 707,751,751       |
| Escalation to Mid-point of Construction            | <i>By Others</i> 0% | -                         | -                   | -                   | -                   | -                 |
| RECOMMENDED CONSTRUCTION BUDGET                    |                     | 682,153,854               | 722,471,958         | 762,790,062         | 803,108,163         | 707,751,751       |
| Non-Contract Costs                                 | 17.0%               | 115,966,155               | 122,820,233         | 129,674,311         | 136,528,388         | 120,317,798       |
| TOTAL ESTIMATE                                     |                     | 798,120,009               | 845,292,191         | 892,464,372         | 939,636,551         | 828,069,549       |
| ESTIMATE DIFFERENCE                                |                     | -                         | 47,172,182          | 94,344,363          | 141,516,541         | 29,949,540        |
| ESTIMATE DIFFERENCE - Before Contingencies         |                     |                           | 31,872,019          | 63,744,038          | 95,616,055          | 20,235,492        |

Sites Reservoir  
Golden Gate Dam Contingency Estimates  
Sites, CA

Cost Estimate  
AACEI Class 3  
February 27, 2025

| Construction Cost Estimate                         |              |                           |             |                     |             |             |
|----------------------------------------------------|--------------|---------------------------|-------------|---------------------|-------------|-------------|
|                                                    |              | 30% Design 15' Excavation | Grout Holes | Consolidation Grout | Core Haul   | Core Slope  |
| Total Direct Cost (\$)                             |              | 365,154,120               | 373,066,987 | 367,923,825         | 376,308,270 | 390,919,066 |
| TOTAL DIRECT COST BEFORE CONTRACTOR INDIRECT COSTS |              | 365,154,120               | 373,066,987 | 367,923,825         | 376,308,270 | 390,919,066 |
| Mobilization                                       | 5.0%         | 18,257,706                | 18,653,349  | 18,396,191          | 18,815,414  | 19,545,953  |
| Field Overhead Costs (GC&GR)                       | 17.0%        | 65,180,010                | 66,592,457  | 65,674,403          | 67,171,026  | 69,779,053  |
| Insurance                                          | 2.0%         | 8,971,837                 | 9,166,256   | 9,039,888           | 9,245,894   | 9,604,881   |
| Bonds                                              | 0.6%         | 2,745,382                 | 2,804,874   | 2,766,206           | 2,829,244   | 2,939,094   |
| Total Contractor Indirect Costs                    |              | 95,154,935                | 97,216,936  | 95,876,688          | 98,061,578  | 101,868,981 |
| TOTAL CONTRACTOR COSTS                             |              | 460,309,055               | 470,283,923 | 463,800,513         | 474,369,848 | 492,788,047 |
| Home Office Overhead (G&A)                         | 6.5%         | 29,920,089                | 30,568,455  | 30,147,033          | 30,834,040  | 32,031,223  |
| GC Profit                                          | 10.0%        | 49,022,914                | 50,085,238  | 49,394,755          | 50,520,389  | 52,481,927  |
| Total Contractor Overhead and Profit               |              | 78,943,003                | 80,653,693  | 79,541,788          | 81,354,429  | 84,513,150  |
| TOTAL CONSTRUCTION COST BEFORE CONTINGENCIES       |              | 539,252,058               | 550,937,616 | 543,342,301         | 555,724,277 | 577,301,197 |
| Contingencies                                      |              |                           |             |                     |             |             |
| Design Contingencies                               | 10.0%        | 53,925,206                | 55,093,762  | 54,334,230          | 55,572,428  | 57,730,120  |
| Construction Contingencies                         | 15.0%        | 88,976,590                | 90,904,707  | 89,651,480          | 91,694,506  | 95,254,698  |
| Total Contingency Allowance                        |              | 142,901,796               | 145,998,469 | 143,985,710         | 147,266,934 | 152,984,818 |
| TOTAL COST BEFORE ESCALATION                       |              | 682,153,854               | 696,936,085 | 687,328,011         | 702,991,211 | 730,286,015 |
| Escalation to Mid-point of Construction            | By Others 0% | -                         | -           | -                   | -           | -           |
| RECOMMENDED CONSTRUCTION BUDGET                    |              | 682,153,854               | 696,936,085 | 687,328,011         | 702,991,211 | 730,286,015 |
| Non-Contract Costs                                 | 17.0%        | 115,966,155               | 118,479,134 | 116,845,762         | 119,508,506 | 124,148,623 |
| TOTAL ESTIMATE                                     |              | 798,120,009               | 815,415,219 | 804,173,772         | 822,499,717 | 854,434,637 |
| ESTIMATE DIFFERENCE                                |              | -                         | 17,295,210  | 6,053,763           | 24,379,708  | 56,314,628  |
| ESTIMATE DIFFERENCE - Before Contingencies         |              |                           | 11,685,558  | 4,090,242           | 16,472,219  | 38,049,139  |

Sites Reservoir  
Golden Gate Dam Contingency Estimates  
Sites, CA

Cost Estimate  
AACEI Class 3  
February 27, 2025

| Construction Cost Estimate                         |              |                           |                   |             |                      |                      |
|----------------------------------------------------|--------------|---------------------------|-------------------|-------------|----------------------|----------------------|
|                                                    |              | 30% Design 15' Excavation | Embankment Slopes | Overburden  | Borrow Quality - 25% | Borrow Quality - 35% |
| Total Direct Cost (\$)                             |              | 365,154,120               | 437,482,995       | 380,252,577 | 374,601,137          | 384,048,153          |
| TOTAL DIRECT COST BEFORE CONTRACTOR INDIRECT COSTS |              | 365,154,120               | 437,482,995       | 380,252,577 | 374,601,137          | 384,048,153          |
| Mobilization                                       | 5.0%         | 18,257,706                | 21,874,150        | 19,012,629  | 18,730,057           | 19,202,408           |
| Field Overhead Costs (GC&GR)                       | 17.0%        | 65,180,010                | 78,090,715        | 67,875,085  | 66,866,303           | 68,552,595           |
| Insurance                                          | 2.0%         | 8,971,837                 | 10,748,957        | 9,342,806   | 9,203,950            | 9,436,063            |
| Bonds                                              | 0.6%         | 2,745,382                 | 3,289,181         | 2,858,899   | 2,816,409            | 2,887,435            |
| Total Contractor Indirect Costs                    |              | 95,154,935                | 114,003,003       | 99,089,419  | 97,616,719           | 100,078,501          |
| TOTAL CONTRACTOR COSTS                             |              | 460,309,055               | 551,485,998       | 479,341,996 | 472,217,856          | 484,126,654          |
| Home Office Overhead (G&A)                         | 6.5%         | 29,920,089                | 35,846,590        | 31,157,230  | 30,694,161           | 31,468,232           |
| GC Profit                                          | 10.0%        | 49,022,914                | 58,733,259        | 51,049,923  | 50,291,202           | 51,559,489           |
| Total Contractor Overhead and Profit               |              | 78,943,003                | 94,579,849        | 82,207,153  | 80,985,363           | 83,027,721           |
| TOTAL CONSTRUCTION COST BEFORE CONTINGENCIES       |              | 539,252,058               | 646,065,847       | 561,549,149 | 553,203,219          | 567,154,375          |
| Contingencies                                      |              |                           |                   |             |                      |                      |
| Design Contingencies                               | 10.0%        | 53,925,206                | 64,606,585        | 56,154,915  | 55,320,322           | 56,715,437           |
| Construction Contingencies                         | 15.0%        | 88,976,590                | 106,600,865       | 92,655,610  | 91,278,531           | 93,580,472           |
| Total Contingency Allowance                        |              | 142,901,796               | 171,207,450       | 148,810,525 | 146,598,853          | 150,295,909          |
| TOTAL COST BEFORE ESCALATION                       |              | 682,153,854               | 817,273,297       | 710,359,674 | 699,802,072          | 717,450,284          |
| Escalation to Mid-point of Construction            | By Others 0% | -                         | -                 | -           | -                    | -                    |
| RECOMMENDED CONSTRUCTION BUDGET                    |              | 682,153,854               | 817,273,297       | 710,359,674 | 699,802,072          | 717,450,284          |
| Non-Contract Costs                                 | 17.0%        | 115,966,155               | 138,936,461       | 120,761,145 | 118,966,352          | 121,966,548          |
| TOTAL ESTIMATE                                     |              | 798,120,009               | 956,209,758       | 831,120,819 | 818,768,424          | 839,416,832          |
| ESTIMATE DIFFERENCE                                |              | -                         | 158,089,749       | 33,000,809  | 20,648,414           | 41,296,823           |
| ESTIMATE DIFFERENCE - Before Contingencies         |              |                           | 106,813,789       | 22,297,091  | 13,951,160           | 27,902,317           |

Sites Reservoir  
Golden Gate Dam Contingency Estimates  
Sites, CA

Cost Estimate  
AACEI Class 3  
February 27, 2025

| Construction Cost Estimate                         |              |                           |             |                     |                  |
|----------------------------------------------------|--------------|---------------------------|-------------|---------------------|------------------|
|                                                    |              | 30% Design 15' Excavation | F&D +25%    | Transitions Offsite | Transitions +25% |
| Total Direct Cost (\$)                             |              | 365,154,120               | 381,755,795 | 427,810,777         | 372,513,536      |
| TOTAL DIRECT COST BEFORE CONTRACTOR INDIRECT COSTS |              | 365,154,120               | 381,755,795 | 427,810,777         | 372,513,536      |
| Mobilization                                       | 5.0%         | 18,257,706                | 19,087,790  | 21,390,539          | 18,625,677       |
| Field Overhead Costs (GC&GR)                       | 17.0%        | 65,180,010                | 68,143,409  | 76,364,224          | 66,493,666       |
| Insurance                                          | 2.0%         | 8,971,837                 | 9,379,740   | 10,511,311          | 9,152,658        |
| Bonds                                              | 0.6%         | 2,745,382                 | 2,870,200   | 3,216,461           | 2,800,713        |
| Total Contractor Indirect Costs                    |              | 95,154,935                | 99,481,139  | 111,482,535         | 97,072,714       |
| TOTAL CONTRACTOR COSTS                             |              | 460,309,055               | 481,236,934 | 539,293,312         | 469,586,250      |
| Home Office Overhead (G&A)                         | 6.5%         | 29,920,089                | 31,280,401  | 35,054,065          | 30,523,106       |
| GC Profit                                          | 10.0%        | 49,022,914                | 51,251,734  | 57,434,738          | 50,010,936       |
| Total Contractor Overhead and Profit               |              | 78,943,003                | 82,532,135  | 92,488,803          | 80,534,042       |
| TOTAL CONSTRUCTION COST BEFORE CONTINGENCIES       |              | 539,252,058               | 563,769,069 | 631,782,115         | 550,120,292      |
| Contingencies                                      |              |                           |             |                     |                  |
| Design Contingencies                               | 10.0%        | 53,925,206                | 56,376,907  | 63,178,212          | 55,012,029       |
| Construction Contingencies                         | 15.0%        | 88,976,590                | 93,021,896  | 104,244,049         | 90,769,848       |
| Total Contingency Allowance                        |              | 142,901,796               | 149,398,803 | 167,422,261         | 145,781,877      |
| TOTAL COST BEFORE ESCALATION                       |              | 682,153,854               | 713,167,872 | 799,204,376         | 695,902,169      |
| Escalation to Mid-point of Construction            | By Others 0% | -                         | -           | -                   | -                |
| RECOMMENDED CONSTRUCTION BUDGET                    |              | 682,153,854               | 713,167,872 | 799,204,376         | 695,902,169      |
| Non-Contract Costs                                 | 17.0%        | 115,966,155               | 121,238,538 | 135,864,744         | 118,303,369      |
| TOTAL ESTIMATE                                     |              | 798,120,009               | 834,406,411 | 935,069,120         | 814,205,538      |
| ESTIMATE DIFFERENCE                                |              | -                         | 36,286,401  | 136,949,111         | 16,085,528       |
| ESTIMATE DIFFERENCE - Before Contingencies         |              |                           | 24,517,011  | 92,530,057          | 10,868,234       |

DIRECT COST LEVEL 2 SUMMARY

| Item     | Sub Item                         | Description                                             | UoM    | 30% Design 15' Excavation |           |            | Adj   | 1A - 20' Excavation |           |            | Adj   | 1B - 25' Excavation |           |            | Adj   | 1C - 30' Excavation |           |             |
|----------|----------------------------------|---------------------------------------------------------|--------|---------------------------|-----------|------------|-------|---------------------|-----------|------------|-------|---------------------|-----------|------------|-------|---------------------|-----------|-------------|
|          |                                  |                                                         |        | Qty                       | Unit Rate | Total      |       | Qty                 | Unit Rate | Total      |       | Qty                 | Unit Rate | Total      |       | Qty                 | Unit Rate | Total       |
| 01       | 01.00.00                         | PRECONSTRUCTION ACTIVITIES                              |        |                           |           | 7,160,400  |       |                     |           | 7,160,400  |       |                     |           | 7,160,400  |       |                     |           | 7,160,400   |
|          | 01.01.00                         | Demolition Work                                         | LS     | -                         |           | Elsewhere  |       |                     |           | Elsewhere  |       |                     |           | Elsewhere  |       |                     |           | Elsewhere   |
|          | 01.02.00                         | Clearing and Grubbing                                   | ACRE   | 53                        | 10,239    | 542,647    | 100%  | 53                  | 10,239    | 542,647    | 100%  | 53                  | 10,239    | 542,647    | 100%  | 53                  | 10,239    | 542,647     |
|          | 01.03.00                         | Reservoir Clearing                                      | ACRE   | -                         |           | -          | 100%  | -                   |           | -          | 100%  | -                   |           | -          | 100%  | -                   |           | -           |
|          | 01.04.00                         | Erosion and Sediment Control                            | ACRE   | 53                        | 107,939   | 5,720,793  | 100%  | 53                  | 107,939   | 5,720,793  | 100%  | 53                  | 107,939   | 5,720,793  | 100%  | 53                  | 107,939   | 5,720,793   |
|          | 01.05.00                         | Developing haul routes - Haul routes inside reservoir   | ACRES  | 43                        | 11,137    | 478,903    | 100%  | 43                  | 11,137    | 478,903    | 100%  | 43                  | 11,137    | 478,903    | 100%  | 43                  | 11,137    | 478,903     |
|          | 01.06.00                         | Developing haul routes - Haul routes outside reservoir  | ACRES  | 22                        | 11,137    | 245,020    | 100%  | 22                  | 11,137    | 245,020    | 100%  | 22                  | 11,137    | 245,020    | 100%  | 22                  | 11,137    | 245,020     |
|          | 01.07.00                         | Developing Stockpile and Staging Areas                  | ACRES  | 10                        | 17,304    | 173,036    | 100%  | 10                  | 17,304    | 173,036    | 100%  | 10                  | 17,304    | 173,036    | 100%  | 10                  | 17,304    | 173,036     |
| 02       | 02.00.00                         | COFFERDAM                                               |        |                           |           | 3,794,959  |       |                     |           | 4,174,455  |       |                     |           | 4,553,951  |       |                     |           | 4,933,447   |
|          | 02.01.00                         | Cofferdam Excavation                                    | BCY    | 85,000                    | 16        | 1,369,933  | 110%  | 93,500              | 16        | 1,506,926  | 120%  | 102,000             | 16        | 1,643,919  | 130%  | 110,500             | 16        | 1,780,913   |
|          | 02.02.00                         | Cofferdam - Zone 6                                      | ECY    | 10,500                    | 12        | 129,719    | 110%  | 11,550              | 12        | 142,691    | 120%  | 12,600              | 12        | 155,663    | 130%  | 13,650              | 12        | 168,635     |
|          | 02.03.00                         | Cofferdam - Zone 9                                      | ECY    | 112,400                   | 13        | 1,505,307  | 110%  | 123,640             | 13        | 1,655,838  | 120%  | 134,880             | 13        | 1,806,369  | 130%  | 146,120             | 13        | 1,956,900   |
|          | 02.04.00                         | Cofferdam - Cutoff Wall                                 | SF     | 16,000                    | 40        | 640,000    | 110%  | 17,600              | 40        | 704,000    | 120%  | 19,200              | 40        | 768,000    | 130%  | 20,800              | 40        | 832,000     |
| 02.05.00 | Cofferdam - Dewatering Allowance | LS                                                      | 1      | 150,000                   | 150,000   | 110%       | 1     | 150,000             | 165,000   | 120%       | 1     | 150,000             | 180,000   | 130%       | 1     | 150,000             | 195,000   |             |
| 03       | 03.00.00                         | GOLDEN GATE DIVERSION                                   |        |                           |           | 13,830,433 |       |                     |           | 13,830,433 |       |                     |           | 13,830,433 |       |                     |           | 13,830,433  |
|          | 03.01.00                         | Pipe Excavation                                         | BCY    | 7,000                     | 30        | 208,595    | 100%  | 7,000               | 30        | 208,595    | 100%  | 7,000               | 30        | 208,595    | 100%  | 7,000               | 30        | 208,595     |
|          | 03.02.00                         | Install 48-Inch Steel Pipe and Encasement               | LF     | 2,250                     | 3,911     | 8,800,405  | 100%  | 2,250               | 3,911     | 8,800,405  | 100%  | 2,250               | 3,911     | 8,800,405  | 100%  | 2,250               | 3,911     | 8,800,405   |
|          | 03.03.00                         | Mass Concrete at GG Core Excavation                     | CY     | 6,133                     | 530       | 3,249,658  | 100%  | 6,133               | 530       | 3,249,658  | 100%  | 6,133               | 530       | 3,249,658  | 100%  | 6,133               | 530       | 3,249,658   |
|          | 03.04.00                         | Downstream Valve Pad                                    | LS     | 1                         | 22,013    | 22,013     | 100%  | 1                   | 22,013    | 22,013     | 100%  | 1                   | 22,013    | 22,013     | 100%  | 1                   | 22,013    | 22,013      |
|          | 03.04.00                         | Mechanical Scope of Work                                | LS     | 1                         | 724,646   | 724,646    | 100%  | 1                   | 724,646   | 724,646    | 100%  | 1                   | 724,646   | 724,646    | 100%  | 1                   | 724,646   | 724,646     |
|          | 03.05.00                         | Upstream Inlet                                          | CY     | 1                         | 46,859    | 46,859     | 100%  | 1                   | 46,859    | 46,859     | 100%  | 1                   | 46,859    | 46,859     | 100%  | 1                   | 46,859    | 46,859      |
|          | 03.06.00                         | Riprap Discharge Channel                                | CY     | 70                        | 167       | 11,722     | 100%  | 70                  | 167       | 11,722     | 100%  | 70                  | 167       | 11,722     | 100%  | 70                  | 167       | 11,722      |
| 03.07.00 | Grout Backfill to Seal Pipe      | CY                                                      | 1,009  | 760                       | 766,535   | 100%       | 1,009 | 760                 | 766,535   | 100%       | 1,009 | 760                 | 766,535   | 100%       | 1,009 | 760                 | 766,535   |             |
| 04       | 04.00.00                         | FOUNDATION EXCAVATION                                   |        |                           |           | 16,808,867 |       |                     |           | 22,411,822 |       |                     |           | 28,014,778 |       |                     |           | 33,617,734  |
|          | 04.01.00                         | Topsoil Salvage                                         | BCY    | 138,000                   | 6         | 853,970    | 133%  | 184,000             | 6         | 1,138,627  | 167%  | 230,000             | 6         | 1,423,284  | 200%  | 276,000             | 6         | 1,707,940   |
|          | 04.02.00                         | Drill and Shoot Foundation                              | BCY    | 126,600                   | 15        | 1,865,677  | 133%  | 168,800             | 15        | 2,487,569  | 167%  | 211,000             | 15        | 3,109,461  | 200%  | 253,200             | 15        | 3,731,354   |
|          | 04.03.00                         | Dam Foundation Excavation                               | BCY    | 1,266,000                 | 10        | 12,649,220 | 133%  | 1,688,000           | 10        | 16,865,626 | 167%  | 2,110,000           | 10        | 21,082,033 | 200%  | 2,532,000           | 10        | 25,298,439  |
|          | 04.05.00                         | Dewatering allowance                                    | Months | 18                        | 80,000    | 1,440,000  | 133%  | 24                  | 80,000    | 1,920,000  | 167%  | 30                  | 80,000    | 2,400,000  | 200%  | 36                  | 80,000    | 2,880,000   |
| 05       | 05.00.00                         | FOUNDATION PREPARATION - BENEATH CORE                   |        |                           |           | 9,432,360  |       |                     |           | 9,903,978  |       |                     |           | 10,375,596 |       |                     |           | 10,847,214  |
|          | 05.01.00                         | Initial Foundation Cleaning - Core                      | SY     | 29,300                    | 26        | 758,974    | 105%  | 30,765              | 26        | 796,923    | 110%  | 32,230              | 26        | 834,872    | 115%  | 33,695              | 26        | 872,820     |
|          | 05.02.00                         | Final Foundation Cleaning - Core                        | SY     | 29,300                    | 34        | 1,000,466  | 105%  | 30,765              | 34        | 1,050,489  | 110%  | 32,230              | 34        | 1,100,512  | 115%  | 33,695              | 34        | 1,150,536   |
|          | 05.03.00                         | Dental Excavation                                       | CY     | 6,000                     | 24        | 144,646    | 105%  | 6,300               | 24        | 151,878    | 110%  | 6,600               | 24        | 159,110    | 115%  | 6,900               | 24        | 166,343     |
|          | 05.04.00                         | Dental Concrete                                         | CY     | 6,000                     | 529       | 3,173,314  | 105%  | 6,300               | 529       | 3,331,979  | 110%  | 6,600               | 529       | 3,490,645  | 115%  | 6,900               | 529       | 3,649,311   |
|          | 05.05.00                         | Backfill Concrete                                       | CY     | 5,150                     | 406       | 2,093,338  | 105%  | 5,408               | 406       | 2,198,005  | 110%  | 5,665               | 406       | 2,302,672  | 115%  | 5,923               | 406       | 2,407,339   |
|          | 05.06.00                         | Shaping Excavations                                     | CY     | 600                       | 32        | 19,286     | 105%  | 630                 | 32        | 20,250     | 110%  | 660                 | 32        | 21,215     | 115%  | 690                 | 32        | 22,179      |
|          | 05.07.00                         | Slush Grout                                             | Sacks  | 8,800                     | 255       | 2,242,336  | 105%  | 9,240               | 255       | 2,354,453  | 110%  | 9,680               | 255       | 2,466,570  | 115%  | 10,120              | 255       | 2,578,686   |
| 06       | 06.00.00                         | GROUTING                                                |        |                           |           | 38,804,266 |       |                     |           | 38,804,266 |       |                     |           | 38,804,266 |       |                     |           | 38,804,266  |
|          | 06.01.00                         | Grout Cap                                               | CY     | 6,950                     | 1,164     | 8,092,545  | 100%  | 6,950               | 1,164     | 8,092,545  | 100%  | 6,950               | 1,164     | 8,092,545  | 100%  | 6,950               | 1,164     | 8,092,545   |
|          | 06.02.00                         | Grout Cap Anchors                                       | LF     | 2,400                     | 180       | 431,818    | 100%  | 2,400               | 180       | 431,818    | 100%  | 2,400               | 180       | 431,818    | 100%  | 2,400               | 180       | 431,818     |
|          | 06.03.00                         | Grout Cut Off Wall                                      | CY     | -                         |           | -          | 100%  | -                   |           | -          | 100%  | -                   |           | -          | 100%  | -                   |           | -           |
|          | 06.04.00                         | Curtain Grouting - Includes Stich and Fans              | LF     | 150,900                   | 196       | 29,528,250 | 100%  | 150,900             | 196       | 29,528,250 | 100%  | 150,900             | 196       | 29,528,250 | 100%  | 150,900             | 196       | 29,528,250  |
|          | 06.05.00                         | Consolidation Grouting                                  | LF     | -                         |           | -          | 100%  | -                   |           | -          | 100%  | -                   |           | -          | 100%  | -                   |           | -           |
|          | 06.06.00                         | Type III Cement                                         | Tons   | 2,733                     | 275       | 751,653    | 100%  | 2,733               | 275       | 751,653    | 100%  | 2,733               | 275       | 751,653    | 100%  | 2,733               | 275       | 751,653     |
| 07       | 07.00.00                         | FOUNDATION PREPARATION - BENEATH SHELL                  |        |                           |           | 857,213    |       |                     |           | 900,073    |       |                     |           | 942,934    |       |                     |           | 985,795     |
|          | 07.01.00                         | Foundation Cleaning - Shell                             | SY     | 214,400                   | 4         | 857,213    | 105%  | 225,120             | 4         | 900,073    | 110%  | 235,840             | 4         | 942,934    | 115%  | 246,560             | 4         | 985,795     |
| 08       | 08.00.00                         | FOUNDATION DRAINAGE                                     |        |                           |           | 206,794    |       |                     |           | 206,794    |       |                     |           | 206,794    |       |                     |           | 206,794     |
|          | 08.01.00                         | Furnish and Install Foundation Drain Pipe               | LF     | 450                       | 277       | 124,824    | 100%  | 450                 | 277       | 124,824    | 100%  | 450                 | 277       | 124,824    | 100%  | 450                 | 277       | 124,824     |
|          | 08.02.00                         | Furnish and Install Foundation Drain Manholes           | EA     | 2                         | 20,492    | 40,985     | 100%  | 2                   | 20,492    | 40,985     | 100%  | 2                   | 20,492    | 40,985     | 100%  | 2                   | 20,492    | 40,985      |
|          | 08.03.00                         | Furnish and Install Inspection Well                     | EA     | 2                         | 20,492    | 40,985     | 100%  | 2                   | 20,492    | 40,985     | 100%  | 2                   | 20,492    | 40,985     | 100%  | 2                   | 20,492    | 40,985      |
| 09       | 09.00.00                         | ROCK BORROW AREA - DEVELOP, PROCESSING, AND RESTORATION |        |                           |           | 89,462,355 |       |                     |           | 94,451,732 |       |                     |           | 99,441,108 |       |                     |           | 104,430,484 |
|          | 09.01.00                         | Strip/Overburden/Waste to Stockpile                     | BCY    | 1,604,100                 | 8.96      | 14,379,483 | 106%  | 1,693,562           | 9         | 15,181,436 | 111%  | 1,783,023           | 9         | 15,983,390 | 117%  | 1,872,485           | 9         | 16,785,343  |
|          | 09.02.00                         | Drill, Blast, Excavate to Crusher and Riprap Process    | BCY    | 5,354,400                 | 6.80      | 36,428,480 | 106%  | 5,653,019           | 7         | 38,460,132 | 111%  | 5,951,637           | 7         | 40,491,773 | 117%  | 6,250,256           | 7         | 42,523,415  |
|          | 09.03.00                         | Zone 4A, 4B, Zone 7A Processing                         | ECY    | 502,000                   | 32        | 16,064,000 | 106%  | 529,997             | 32        | 16,959,900 | 111%  | 557,994             | 32        | 17,855,800 | 117%  | 585,991             | 32        | 18,751,701  |
|          | 09.04.00                         | Riprap and Groin Processing                             | ECY    | 122,300                   | 30        | 3,669,000  | 106%  | 129,121             | 30        | 3,873,623  | 111%  | 135,942             | 30        | 4,078,245  | 117%  | 142,762             | 30        | 4,282,868   |
|          | 09.05.00                         | Removal of Excess Sand/Siltstone                        | BCY    | 1,019,700                 | 13.24     | 13,495,738 | 106%  | 1,076,569           | 13        | 14,248,404 | 111%  | 1,133,439           | 13        | 15,001,070 | 117%  | 1,190,308           | 13        | 15,753,737  |
|          | 09.06.00                         | Replace Overburden from Stockpile                       | ECY    | 377,800                   | 6.68      | 2,524,157  | 106%  | 398,870             | 7         | 2,664,931  | 111%  | 419,940             | 7         | 2,805,705  | 117%  | 441,010             | 7         | 2,946,479   |
|          | 09.07.00                         | Topsoil Replacement                                     | ECY    | 138,000                   | 9.90      | 1,366,068  | 106%  | 145,696             | 10        | 1,442,255  | 111%  | 153,393             | 10        | 1,518,441  | 117%  | 161,089             | 10        | 1,594,628   |
|          | 09.08.00                         | Seeding                                                 | SF     | 3,572,000                 | 0.43      | 1,535,420  | 106%  | 3,771,213           | 0         | 1,621,051  | 111%  | 3,970,426           | 0         | 1,706,682  | 117%  | 4,169,639           | 0         | 1,792,314   |
| 10       | 10.00.00                         | EMBANKMENT                                              |        |                           |           | 162,595    |       |                     |           |            |       |                     |           |            |       |                     |           |             |

DIRECT COST LEVEL 2 SUMMARY

| Item              | Sub Item | Description                                                                                                                                    | UoM | 30" Design 15' Excavation |           |             | Adj  | 1A - 20' Excavation |           |       |             | Adj  | 1B - 25' Excavation |           |           |             | Adj  | 1C - 30' Excavation |           |           |             |
|-------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------|-----|---------------------------|-----------|-------------|------|---------------------|-----------|-------|-------------|------|---------------------|-----------|-----------|-------------|------|---------------------|-----------|-----------|-------------|
|                   |          |                                                                                                                                                |     | Qty                       | Unit Rate | Total       |      | Qty                 | Unit Rate | Total | Qty         |      | Unit Rate           | Total     | Qty       | Unit Rate   |      | Total               | Qty       | Unit Rate | Total       |
|                   | 10.10.00 | Produce, Haul and Place - Zone 7B - Riprap                                                                                                     | ECY | 122,300                   | 22        | 2,686,268   | 106% | 129,121             |           | 22    | 2,836,082   | 111% | 135,942             |           | 22        | 2,985,897   | 117% | 142,762             |           | 22        | 3,135,712   |
|                   | 10.11.00 | Produce, Haul and Place - Groin Protection - Saddles                                                                                           | ECY | -                         |           | -           | 106% | -                   |           |       | -           | 111% | -                   |           |           | -           | 117% | -                   |           |           | -           |
| 11                | 11.00.00 | INSTRUMENTATION AND TELEMETRY                                                                                                                  |     |                           |           | 1,854,500   |      |                     |           |       | 1,854,500   |      |                     |           | 1,854,500 |             |      |                     |           | 1,854,500 |             |
|                   | 11.01.00 | Instrumentation/Telemetry: Instrumentation/Telemetry (piezometers, settlement monitors (survey monuments), seismographs, and slope indicators) | LS  | 1                         | 1,854,500 | 1,854,500   | 100% | 1                   | 1,854,500 |       | 1,854,500   | 100% | 1                   | 1,854,500 |           | 1,854,500   | 100% | 1                   | 1,854,500 |           | 1,854,500   |
| 12                | 12.00.00 | SITE RESTORATION                                                                                                                               |     |                           |           | 2,957,730   |      |                     |           |       | 2,957,730   |      |                     |           |           | 2,957,730   |      |                     |           |           | 2,957,730   |
| Zone 4A           | 12.01.00 | Seeding                                                                                                                                        | SF  | 460,000                   | 0         | 197,730     | 100% | 460,000             |           | 0     | 197,730     | 100% | 460,000             |           | 0         | 197,730     | 100% | 460,000             |           | 0         | 197,730     |
|                   | 12.02.00 | Fencing                                                                                                                                        | LF  | 800                       | 75        | 60,000      | 100% | 800                 |           | 75    | 60,000      | 100% | 800                 |           | 75        | 60,000      | 100% | 800                 |           | 75        | 60,000      |
|                   | 12.03.00 | Best Management Practices                                                                                                                      | LS  | 1                         | 1,500,000 | 1,500,000   | 100% | 1                   | 1,500,000 |       | 1,500,000   | 100% | 1                   | 1,500,000 |           | 1,500,000   | 100% | 1                   | 1,500,000 |           | 1,500,000   |
|                   | 12.04.00 | Rock Check Dams                                                                                                                                | LS  | 1                         | 600,000   | 600,000     | 100% | 1                   | 600,000   |       | 600,000     | 100% | 1                   | 600,000   |           | 600,000     | 100% | 1                   | 600,000   |           | 600,000     |
|                   | 12.05.00 | Drainage - Inlets, Culverts                                                                                                                    | LS  | 1                         | 600,000   | 600,000     | 100% | 1                   | 600,000   |       | 600,000     | 100% | 1                   | 600,000   |           | 600,000     | 100% | 1                   | 600,000   |           | 600,000     |
| 15                | 15.00.00 | ALLOWANCE FOR UNLISTED ITEMS                                                                                                                   |     |                           |           | 17,388,291  |      |                     |           |       | 18,416,011  |      |                     |           |           | 19,443,731  |      |                     |           |           | 20,471,450  |
|                   | 15.01.00 | Allowance for Unlisted Items                                                                                                                   | %   | 5%                        |           | 17,388,291  |      | 1738829144%         |           |       | 18,416,011  |      | 1738829144%         |           |           | 19,443,731  |      | 1738829144%         |           |           | 20,471,450  |
| Total Direct Cost |          |                                                                                                                                                |     |                           |           | 365,154,120 |      |                     |           |       | 386,736,233 |      |                     |           |           | 408,318,346 |      |                     |           |           | 429,900,459 |

DIRECT COST LEVEL 2 SUMMARY

| Item | Sub Item | Description                                             | UoM    | Qty       | Unit Rate | Total      | Adj  | Qty       | Unit Rate | Total      | Adj  | Qty       | Unit Rate | Total      | Adj  | Qty       | Unit Rate | Total      |
|------|----------|---------------------------------------------------------|--------|-----------|-----------|------------|------|-----------|-----------|------------|------|-----------|-----------|------------|------|-----------|-----------|------------|
| 01   | 01.00.00 | PRECONSTRUCTION ACTIVITIES                              |        |           |           | 7,160,400  |      |           |           | 7,160,400  |      |           |           | 7,160,400  |      |           |           | 7,160,400  |
|      | 01.01.00 | Demolition Work                                         | LS     | -         | -         | Elsewhere  |      |           |           | Elsewhere  |      | Elsewhere |           | Elsewhere  |      | Elsewhere |           | Elsewhere  |
|      | 01.02.00 | Clearing and Grubbing                                   | ACRE   | 53        | 10,239    | 542,647    | 100% | 53        | 10,239    | 542,647    | 100% | 53        | 10,239    | 542,647    | 100% | 53        | 10,239    | 542,647    |
|      | 01.03.00 | Reservoir Clearing                                      | ACRE   | -         | -         | -          | 100% | -         | -         | -          | 100% | -         | -         | -          | 100% | -         | -         | -          |
|      | 01.04.00 | Erosion and Sediment Control                            | ACRE   | 53        | 107,939   | 5,720,793  | 100% | 53        | 107,939   | 5,720,793  | 100% | 53        | 107,939   | 5,720,793  | 100% | 53        | 107,939   | 5,720,793  |
|      | 01.05.00 | Developing haul routes - Haul routes inside reservoir   | ACRES  | 43        | 11,137    | 478,903    | 100% | 43        | 11,137    | 478,903    | 100% | 43        | 11,137    | 478,903    | 100% | 43        | 11,137    | 478,903    |
|      | 01.06.00 | Developing haul routes - Haul routes outside reservoir  | ACRES  | 22        | 11,137    | 245,020    | 100% | 22        | 11,137    | 245,020    | 100% | 22        | 11,137    | 245,020    | 100% | 22        | 11,137    | 245,020    |
|      | 01.07.00 | Developing Stockpile and Staging Areas                  | ACRES  | 10        | 17,304    | 173,036    | 100% | 10        | 17,304    | 173,036    | 100% | 10        | 17,304    | 173,036    | 100% | 10        | 17,304    | 173,036    |
| 02   | 02.00.00 | COFFERDAM                                               |        |           |           | 3,794,959  |      |           |           | 3,794,959  |      |           |           | 3,794,959  |      |           |           | 3,794,959  |
|      | 02.01.00 | Cofferdam Excavation                                    | BCY    | 85,000    | 16        | 1,369,933  | 100% | 85,000    | 16        | 1,369,933  | 100% | 85,000    | 16        | 1,369,933  | 100% | 85,000    | 16        | 1,369,933  |
|      | 02.02.00 | Cofferdam - Zone 6                                      | ECY    | 10,500    | 12        | 129,719    | 100% | 10,500    | 12        | 129,719    | 100% | 10,500    | 12        | 129,719    | 100% | 10,500    | 12        | 129,719    |
|      | 02.03.00 | Cofferdam - Zone 9                                      | ECY    | 112,400   | 13        | 1,505,307  | 100% | 112,400   | 13        | 1,505,307  | 100% | 112,400   | 13        | 1,505,307  | 100% | 112,400   | 13        | 1,505,307  |
|      | 02.04.00 | Cofferdam - Cutoff Wall                                 | SF     | 16,000    | 40        | 640,000    | 100% | 16,000    | 40        | 640,000    | 100% | 16,000    | 40        | 640,000    | 100% | 16,000    | 40        | 640,000    |
|      | 02.05.00 | Cofferdam - Dewatering Allowance                        | LS     | 1         | 150,000   | 150,000    | 100% | 1         | 150,000   | 150,000    | 100% | 1         | 150,000   | 150,000    | 100% | 1         | 150,000   | 150,000    |
| 03   | 03.00.00 | GOLDEN GATE DIVERSION                                   |        |           |           | 13,830,433 |      |           |           | 13,830,433 |      |           |           | 13,830,433 |      |           |           | 13,830,433 |
|      | 03.01.00 | Pipe Excavation                                         | BCY    | 7,000     | 30        | 208,595    | 100% | 7,000     | 30        | 208,595    | 100% | 7,000     | 30        | 208,595    | 100% | 7,000     | 30        | 208,595    |
|      | 03.02.00 | Install 48-Inch Steel Pipe and Encasement               | LF     | 2,250     | 3,911     | 8,800,405  | 100% | 2,250     | 3,911     | 8,800,405  | 100% | 2,250     | 3,911     | 8,800,405  | 100% | 2,250     | 3,911     | 8,800,405  |
|      | 03.03.00 | Mass Concrete at GG Core Excavation                     | CY     | 6,133     | 530       | 3,249,658  | 100% | 6,133     | 530       | 3,249,658  | 100% | 6,133     | 530       | 3,249,658  | 100% | 6,133     | 530       | 3,249,658  |
|      | 03.04.00 | Downstream Valve Pad                                    | LS     | 1         | 22,013    | 22,013     | 100% | 1         | 22,013    | 22,013     | 100% | 1         | 22,013    | 22,013     | 100% | 1         | 22,013    | 22,013     |
|      | 03.04.00 | Mechanical Scope of Work                                | LS     | 1         | 724,646   | 724,646    | 100% | 1         | 724,646   | 724,646    | 100% | 1         | 724,646   | 724,646    | 100% | 1         | 724,646   | 724,646    |
|      | 03.05.00 | Upstream Inlet                                          | CY     | 1         | 46,859    | 46,859     | 100% | 1         | 46,859    | 46,859     | 100% | 1         | 46,859    | 46,859     | 100% | 1         | 46,859    | 46,859     |
|      | 03.06.00 | Riprap Discharge Channel                                | CY     | 70        | 167       | 11,722     | 100% | 70        | 167       | 11,722     | 100% | 70        | 167       | 11,722     | 100% | 70        | 167       | 11,722     |
|      | 03.07.00 | Grout Backfill to Seal Pipe                             | CY     | 1,009     | 760       | 766,535    | 100% | 1,009     | 760       | 766,535    | 100% | 1,009     | 760       | 766,535    | 100% | 1,009     | 760       | 766,535    |
| 04   | 04.00.00 | FOUNDATION EXCAVATION                                   |        |           |           | 16,808,867 |      |           |           | 16,808,867 |      |           |           | 16,808,867 |      |           |           | 16,808,867 |
|      | 04.01.00 | Topsoil Salvage                                         | BCY    | 138,000   | 6         | 853,970    | 100% | 138,000   | 6         | 853,970    | 100% | 138,000   | 6         | 853,970    | 100% | 138,000   | 6         | 853,970    |
|      | 04.02.00 | Drill and Shoot Foundation                              | BCY    | 126,600   | 15        | 1,865,677  | 109% | 150,853   | 15        | 2,223,086  | 100% | 126,600   | 15        | 1,865,677  | 100% | 126,600   | 15        | 1,865,677  |
|      | 04.03.00 | Dam Foundation Excavation                               | BCY    | 1,266,000 | 10        | 12,649,220 | 109% | 1,508,529 | 10        | 15,072,442 | 100% | 1,266,000 | 10        | 12,649,220 | 100% | 1,266,000 | 10        | 12,649,220 |
|      | 04.05.00 | Dewatering allowance                                    | Months | 18        | 80,000    | 1,440,000  | 109% | 21        | 80,000    | 1,715,862  | 100% | 18        | 80,000    | 1,440,000  | 100% | 18        | 80,000    | 1,440,000  |
| 05   | 05.00.00 | FOUNDATION PREPARATION - BENEATH CORE                   |        |           |           | 9,432,360  |      |           |           | 9,432,360  |      |           |           | 9,432,360  |      |           |           | 9,432,360  |
|      | 05.01.00 | Initial Foundation Cleaning - Core                      | SY     | 29,300    | 26        | 758,974    | 100% | 29,300    | 26        | 758,974    | 100% | 29,300    | 26        | 758,974    | 100% | 29,300    | 26        | 758,974    |
|      | 05.02.00 | Final Foundation Cleaning - Core                        | SY     | 29,300    | 34        | 1,000,466  | 100% | 29,300    | 34        | 1,000,466  | 100% | 29,300    | 34        | 1,000,466  | 100% | 29,300    | 34        | 1,000,466  |
|      | 05.03.00 | Dental Excavation                                       | CY     | 6,000     | 24        | 144,646    | 100% | 6,000     | 24        | 144,646    | 100% | 6,000     | 24        | 144,646    | 100% | 6,000     | 24        | 144,646    |
|      | 05.04.00 | Dental Concrete                                         | CY     | 6,000     | 529       | 3,173,314  | 100% | 6,000     | 529       | 3,173,314  | 100% | 6,000     | 529       | 3,173,314  | 100% | 6,000     | 529       | 3,173,314  |
|      | 05.05.00 | Backfill Concrete                                       | CY     | 5,150     | 406       | 2,093,338  | 100% | 5,150     | 406       | 2,093,338  | 100% | 5,150     | 406       | 2,093,338  | 100% | 5,150     | 406       | 2,093,338  |
|      | 05.06.00 | Shaping Excavations                                     | CY     | 600       | 32        | 19,286     | 100% | 600       | 32        | 19,286     | 100% | 600       | 32        | 19,286     | 100% | 600       | 32        | 19,286     |
|      | 05.07.00 | Slush Grout                                             | Sacks  | 8,800     | 255       | 2,242,336  | 100% | 8,800     | 255       | 2,242,336  | 100% | 8,800     | 255       | 2,242,336  | 100% | 8,800     | 255       | 2,242,336  |
| 06   | 06.00.00 | GROUTING                                                |        |           |           | 38,804,266 |      |           |           | 38,804,266 |      |           |           | 46,340,330 |      |           |           | 41,442,080 |
|      | 06.01.00 | Grout Cap                                               | CY     | 6,950     | 1,164     | 8,092,545  | 100% | 6,950     | 1,164     | 8,092,545  | 100% | 6,950     | 1,164     | 8,092,545  | 100% | 6,950     | 1,164     | 8,092,545  |
|      | 06.02.00 | Grout Cap Anchors                                       | LF     | 2,400     | 180       | 431,818    | 100% | 2,400     | 180       | 431,818    | 100% | 2,400     | 180       | 431,818    | 100% | 2,400     | 180       | 431,818    |
|      | 06.03.00 | Grout Cut Off Wall                                      | CY     | -         | -         | -          | 100% | -         | -         | -          | 100% | -         | -         | -          | 100% | -         | -         | -          |
|      | 06.04.00 | Curtain Grouting - Includes Stich and Fans              | LF     | 150,900   | 196       | 29,528,250 | 100% | 150,900   | 196       | 29,528,250 | 125% | 188,456   | 196       | 36,877,242 | 109% | 164,046   | 196       | 32,100,584 |
|      | 06.05.00 | Consolidation Grouting                                  | LF     | -         | -         | -          | 100% | -         | -         | -          | 125% | -         | -         | -          | 109% | -         | -         | -          |
|      | 06.06.00 | Type III Cement                                         | Tons   | 2,733     | 275       | 751,653    | 100% | 2,733     | 275       | 751,653    | 125% | 3,414     | 275       | 938,725    | 109% | 2,971     | 275       | 817,133    |
| 07   | 07.00.00 | FOUNDATION PREPARATION - BENEATH SHELL                  |        |           |           | 857,213    |      |           |           | 857,213    |      |           |           | 857,213    |      |           |           | 857,213    |
|      | 07.01.00 | Foundation Cleaning - Shell                             | SY     | 214,400   | 4         | 857,213    | 100% | 214,400   | 4         | 857,213    | 100% | 214,400   | 4         | 857,213    | 100% | 214,400   | 4         | 857,213    |
| 08   | 08.00.00 | FOUNDATION DRAINAGE                                     |        |           |           | 206,794    |      |           |           | 206,794    |      |           |           | 206,794    |      |           |           | 206,794    |
|      | 08.01.00 | Furnish and Install Foundation Drain Pipe               | LF     | 450       | 277       | 124,824    | 100% | 450       | 277       | 124,824    | 100% | 450       | 277       | 124,824    | 100% | 450       | 277       | 124,824    |
|      | 08.02.00 | Furnish and Install Foundation Drain Manholes           | EA     | 2         | 20,492    | 40,985     | 100% | 2         | 20,492    | 40,985     | 100% | 2         | 20,492    | 40,985     | 100% | 2         | 20,492    | 40,985     |
|      | 08.03.00 | Furnish and Install Inspection Well                     | EA     | 2         | 20,492    | 40,985     | 100% | 2         | 20,492    | 40,985     | 100% | 2         | 20,492    | 40,985     | 100% | 2         | 20,492    | 40,985     |
| 09   | 09.00.00 | ROCK BORROW AREA - DEVELOP, PROCESSING, AND RESTORATION |        |           |           | 89,462,355 |      |           |           | 93,009,305 |      |           |           | 89,462,355 |      |           |           | 89,462,355 |
|      | 09.01.00 | Strip/Overburden/Waste to Stockpile                     | BCY    | 1,604,100 | 8.96      | 14,379,483 | 104% | 1,667,698 | 9         | 14,949,592 | 100% | 1,604,100 | 9         | 14,379,483 | 100% | 1,604,100 | 9         | 14,379,483 |
|      | 09.02.00 | Drill, Blast, Excavate to Crusher and Riprap Process    | BCY    | 5,354,400 | 6.80      | 36,428,490 | 104% | 5,566,688 | 7         | 37,872,785 | 100% | 5,354,400 | 7         | 36,428,490 | 100% | 5,354,400 | 7         | 36,428,490 |
|      | 09.03.00 | Zone 4A, 4B, Zone 7A Processing                         | ECY    | 502,000   | 32        | 16,064,000 | 104% | 521,903   | 32        | 16,700,896 | 100% | 502,000   | 32        | 16,064,000 | 100% | 502,000   | 32        | 16,064,000 |
|      | 09.04.00 | Riprap and Groin Processing                             | ECY    | 122,300   | 30        | 3,669,000  | 104% | 127,149   | 30        | 3,814,466  | 100% | 122,300   | 30        | 3,669,000  | 100% | 122,300   | 30        | 3,669,000  |
|      | 09.05.00 | Removal of Excess Sand/Siltstone                        | BCY    | 1,019,700 | 13.24     | 13,495,738 | 104% | 1,060,128 | 13        | 14,030,809 | 100% | 1,019,700 | 13        | 13,495,738 | 100% | 1,019,700 | 13        | 13,495,738 |
|      | 09.06.00 | Replace Overburden from Stockpile                       | ECY    | 377,800   | 6.68      | 2,524,157  | 104% | 392,779   | 7         | 2,624,233  | 100% | 377,800   | 7         | 2,524,157  | 100% | 377,800   | 7         | 2,524,157  |
|      | 09.07.00 | Topsoil Replacement                                     | ECY    | 138,000   | 9.90      | 1,366,068  | 104% | 143,471   | 10        | 1,420,229  | 100% | 138,000   | 10        | 1,366,068  | 100% | 138,000   | 10        | 1,366,068  |
|      | 09.08.00 | Seeding                                                 | SF     | 3,572,000 | 0.43      | 1,535,420  | 104% | 3,713,621 | 0         | 1,596,295  | 100% | 3,572,000 | 0         | 1,535,420  | 100% | 3,572,000 | 0         |            |

DIRECT COST LEVEL 2 SUMMARY

| Item              | Sub Item | Description                                                                                                                                    | UoM | 30% Estimate |           |             | Adj  | 300k CY Landslide |           |            | Adj  | Grout Holes |           |            | Adj  | Consolidation Grout |           |            |
|-------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------|-----|--------------|-----------|-------------|------|-------------------|-----------|------------|------|-------------|-----------|------------|------|---------------------|-----------|------------|
|                   |          |                                                                                                                                                |     | Qty          | Unit Rate | Total       |      | Qty               | Unit Rate | Total      |      | Qty         | Unit Rate | Total      |      | Qty                 | Unit Rate | Total      |
|                   | 10.09.00 | Produce, Haul and Place - Zone 7A - Bedding - Saddles                                                                                          | ECY | -            |           | -           |      | -                 |           | -          |      | -           |           | -          |      | -                   |           | -          |
|                   | 10.10.00 | Produce, Haul and Place - Zone 7B - Riprap                                                                                                     | ECY | 122,300      | 22        | 2,686,268   | 104% | 127,149           | 22        | 2,792,771  | 100% | 122,300     | 22        | 2,686,268  | 100% | 122,300             | 22        | 2,686,268  |
|                   | 10.11.00 | Produce, Haul and Place - Groin Protection - Saddles                                                                                           | ECY | -            |           | -           | 104% | -                 |           | -          | 100% | -           |           | -          | 100% | -                   |           | -          |
| 11                | 11.00.00 | INSTRUMENTATION AND TELEMETRY                                                                                                                  |     |              |           | 1,854,500   |      |                   |           | 1,854,500  |      |             |           | 1,854,500  |      |                     |           | 1,854,500  |
|                   | 11.01.00 | Instrumentation/Telemetry: Instrumentation/Telemetry (piezometers, settlement monitors (survey monuments), seismographs, and slope indicators) | LS  | 1            | 1,854,500 | 1,854,500   | 100% | 1                 | 1,854,500 | 1,854,500  | 100% | 1           | 1,854,500 | 1,854,500  | 100% | 1                   | 1,854,500 | 1,854,500  |
| 12                | 12.00.00 | SITE RESTORATION                                                                                                                               |     |              |           | 2,957,730   |      |                   |           | 2,957,730  |      |             |           | 2,957,730  |      |                     |           | 2,957,730  |
|                   | 12.01.00 | Seeding                                                                                                                                        | SF  | 460,000      | 0         | 197,730     | 100% | 460,000           | 0         | 197,730    | 100% | 460,000     | 0         | 197,730    | 100% | 460,000             | 0         | 197,730    |
| Zone 4A           | 12.02.00 | Fencing                                                                                                                                        | LF  | 800          | 75        | 60,000      | 100% | 800               | 75        | 60,000     | 100% | 800         | 75        | 60,000     | 100% | 800                 | 75        | 60,000     |
|                   | 12.03.00 | Best Management Practices                                                                                                                      | LS  | 1            | 1,500,000 | 1,500,000   | 100% | 1                 | 1,500,000 | 1,500,000  | 100% | 1           | 1,500,000 | 1,500,000  | 100% | 1                   | 1,500,000 | 1,500,000  |
|                   | 12.04.00 | Rock Check Dams                                                                                                                                | LS  | 1            | 600,000   | 600,000     | 100% | 1                 | 600,000   | 600,000    | 100% | 1           | 600,000   | 600,000    | 100% | 1                   | 600,000   | 600,000    |
|                   | 12.05.00 | Drainage - Inlets, Culverts                                                                                                                    | LS  | 1            | 600,000   | 600,000     | 100% | 1                 | 600,000   | 600,000    | 100% | 1           | 600,000   | 600,000    | 100% | 1                   | 600,000   | 600,000    |
| 15                | 15.00.00 | ALLOWANCE FOR UNLISTED ITEMS                                                                                                                   |     |              |           | 17,388,291  |      |                   |           | 18,040,789 |      |             |           | 17,765,095 |      |                     |           | 17,520,182 |
|                   | 15.01.00 | Allowance for Unlisted Items                                                                                                                   | %   | 5%           |           | 17,388,291  |      | 1738829144%       |           | 18,040,789 |      | #####       |           | 17,765,095 |      | #####               |           | 17,520,182 |
| Total Direct Cost |          |                                                                                                                                                |     |              |           | 365,154,120 |      | 378,856,568       |           |            |      | 373,066,987 |           |            |      | 367,923,825         |           |            |

DIRECT COST LEVEL 2 SUMMARY

| Item | Sub Item | Description                                             | UoM    | 30% Estimate |           |            | Adj  | Core Haul |           |            | Adj  | Core Slope |           |            | Adj  | Embankment Slopes |           |             |
|------|----------|---------------------------------------------------------|--------|--------------|-----------|------------|------|-----------|-----------|------------|------|------------|-----------|------------|------|-------------------|-----------|-------------|
|      |          |                                                         |        | Qty          | Unit Rate | Total      |      | Qty       | Unit Rate | Total      |      | Qty        | Unit Rate | Total      |      | Qty               | Unit Rate | Total       |
| 01   | 01.00.00 | PRECONSTRUCTION ACTIVITIES                              |        |              |           | 7,160,400  |      |           |           | 7,160,400  |      |            |           | 7,160,400  |      |                   |           | 7,160,400   |
|      | 01.01.00 | Demolition Work                                         | LS     | -            | -         | Elsewhere  |      |           |           | Elsewhere  |      |            |           | Elsewhere  |      |                   |           | Elsewhere   |
|      | 01.02.00 | Clearing and Grubbing                                   | ACRE   | 53           | 10,239    | 542,647    | 100% | 53        | 10,239    | 542,647    | 100% | 53         | 10,239    | 542,647    | 100% | 53                | 10,239    | 542,647     |
|      | 01.03.00 | Reservoir Clearing                                      | ACRE   | -            | -         | -          | 100% | -         | -         | -          | 100% | -          | -         | -          | 100% | -                 | -         | -           |
|      | 01.04.00 | Erosion and Sediment Control                            | ACRE   | 53           | 107,939   | 5,720,793  | 100% | 53        | 107,939   | 5,720,793  | 100% | 53         | 107,939   | 5,720,793  | 100% | 53                | 107,939   | 5,720,793   |
|      | 01.05.00 | Developing haul routes - Haul routes inside reservoir   | ACRES  | 43           | 11,137    | 478,903    | 100% | 43        | 11,137    | 478,903    | 100% | 43         | 11,137    | 478,903    | 100% | 43                | 11,137    | 478,903     |
|      | 01.06.00 | Developing haul routes - Haul routes outside reservoir  | ACRES  | 22           | 11,137    | 245,020    | 100% | 22        | 11,137    | 245,020    | 100% | 22         | 11,137    | 245,020    | 100% | 22                | 11,137    | 245,020     |
|      | 01.07.00 | Developing Stockpile and Staging Areas                  | ACRES  | 10           | 17,304    | 173,036    | 100% | 10        | 17,304    | 173,036    | 100% | 10         | 17,304    | 173,036    | 100% | 10                | 17,304    | 173,036     |
| 02   | 02.00.00 | COFFERDAM                                               |        |              |           | 3,794,959  |      |           |           | 3,794,959  |      |            |           | 3,794,959  |      |                   |           | 4,638,284   |
|      | 02.01.00 | Cofferdam Excavation                                    | BCY    | 85,000       | 16        | 1,369,933  | 100% | 85,000    | 16        | 1,369,933  | 100% | 85,000     | 16        | 1,369,933  | 122% | 103,889           | 16        | 1,674,362   |
|      | 02.02.00 | Cofferdam - Zone 6                                      | ECY    | 10,500       | 12        | 129,719    | 100% | 10,500    | 12        | 129,719    | 100% | 10,500     | 12        | 129,719    | 122% | 12,833            | 12        | 158,546     |
|      | 02.03.00 | Cofferdam - Zone 9                                      | ECY    | 112,400      | 13        | 1,505,307  | 100% | 112,400   | 13        | 1,505,307  | 100% | 112,400    | 13        | 1,505,307  | 122% | 137,378           | 13        | 1,839,820   |
|      | 02.04.00 | Cofferdam - Cutoff Wall                                 | SF     | 16,000       | 40        | 640,000    | 100% | 16,000    | 40        | 640,000    | 100% | 16,000     | 40        | 640,000    | 122% | 19,556            | 40        | 782,222     |
|      | 02.05.00 | Cofferdam - Dewatering Allowance                        | LS     | 1            | 150,000   | 150,000    | 100% | 1         | 150,000   | 150,000    | 100% | 1          | 150,000   | 150,000    | 122% | 1                 | 150,000   | 183,333     |
| 03   | 03.00.00 | GOLDEN GATE DIVERSION                                   |        |              |           | 13,830,433 |      |           |           | 13,830,433 |      |            |           | 13,830,433 |      |                   |           | 13,830,433  |
|      | 03.01.00 | Pipe Excavation                                         | BCY    | 7,000        | 30        | 208,595    | 100% | 7,000     | 30        | 208,595    | 100% | 7,000      | 30        | 208,595    | 100% | 7,000             | 30        | 208,595     |
|      | 03.02.00 | Install 48-Inch Steel Pipe and Encasement               | LF     | 2,250        | 3,911     | 8,800,405  | 100% | 2,250     | 3,911     | 8,800,405  | 100% | 2,250      | 3,911     | 8,800,405  | 100% | 2,250             | 3,911     | 8,800,405   |
|      | 03.03.00 | Mass Concrete at GG Core Excavation                     | CY     | 6,133        | 530       | 3,249,658  | 100% | 6,133     | 530       | 3,249,658  | 100% | 6,133      | 530       | 3,249,658  | 100% | 6,133             | 530       | 3,249,658   |
|      | 03.04.00 | Downstream Valve Pad                                    | LS     | 1            | 22,013    | 22,013     | 100% | 1         | 22,013    | 22,013     | 100% | 1          | 22,013    | 22,013     | 100% | 1                 | 22,013    | 22,013      |
|      | 03.04.00 | Mechanical Scope of Work                                | LS     | 1            | 724,646   | 724,646    | 100% | 1         | 724,646   | 724,646    | 100% | 1          | 724,646   | 724,646    | 100% | 1                 | 724,646   | 724,646     |
|      | 03.05.00 | Upstream Inlet                                          | CY     | 1            | 46,859    | 46,859     | 100% | 1         | 46,859    | 46,859     | 100% | 1          | 46,859    | 46,859     | 100% | 1                 | 46,859    | 46,859      |
|      | 03.06.00 | Riprap Discharge Channel                                | CY     | 70           | 167       | 11,722     | 100% | 70        | 167       | 11,722     | 100% | 70         | 167       | 11,722     | 100% | 70                | 167       | 11,722      |
|      | 03.07.00 | Grout Backfill to Seal Pipe                             | CY     | 1,009        | 760       | 766,535    | 100% | 1,009     | 760       | 766,535    | 100% | 1,009      | 760       | 766,535    | 100% | 1,009             | 760       | 766,535     |
| 04   | 04.00.00 | FOUNDATION EXCAVATION                                   |        |              |           | 16,808,867 |      |           |           | 16,808,867 |      |            |           | 16,808,867 |      |                   |           | 20,544,170  |
|      | 04.01.00 | Topsoil Salvage                                         | BCY    | 138,000      | 6         | 853,970    | 100% | 138,000   | 6         | 853,970    | 100% | 138,000    | 6         | 853,970    | 122% | 168,667           | 6         | 1,043,741   |
|      | 04.02.00 | Drill and Shoot Foundation                              | BCY    | 126,600      | 15        | 1,865,677  | 100% | 126,600   | 15        | 1,865,677  | 100% | 126,600    | 15        | 1,865,677  | 122% | 154,733           | 15        | 2,280,272   |
|      | 04.03.00 | Dam Foundation Excavation                               | BCY    | 1,266,000    | 10        | 12,649,220 | 100% | 1,266,000 | 10        | 12,649,220 | 100% | 1,266,000  | 10        | 12,649,220 | 122% | 1,547,333         | 10        | 15,460,157  |
|      | 04.05.00 | Dewatering allowance                                    | Months | 18           | 80,000    | 1,440,000  | 100% | 18        | 80,000    | 1,440,000  | 100% | 18         | 80,000    | 1,440,000  | 122% | 22                | 80,000    | 1,760,000   |
| 05   | 05.00.00 | FOUNDATION PREPARATION - BENEATH CORE                   |        |              |           | 9,432,360  |      |           |           | 9,432,360  |      |            |           | 9,432,360  |      |                   |           | 11,528,440  |
|      | 05.01.00 | Initial Foundation Cleaning - Core                      | SY     | 29,300       | 26        | 758,974    | 100% | 29,300    | 26        | 758,974    | 100% | 29,300     | 26        | 758,974    | 122% | 35,811            | 26        | 927,835     |
|      | 05.02.00 | Final Foundation Cleaning - Core                        | SY     | 29,300       | 34        | 1,000,466  | 100% | 29,300    | 34        | 1,000,466  | 100% | 29,300     | 34        | 1,000,466  | 122% | 35,811            | 34        | 1,222,792   |
|      | 05.03.00 | Dental Excavation                                       | CY     | 6,000        | 24        | 144,646    | 100% | 6,000     | 24        | 144,646    | 100% | 6,000      | 24        | 144,646    | 122% | 7,333             | 24        | 176,789     |
|      | 05.04.00 | Dental Concrete                                         | CY     | 6,000        | 529       | 3,173,314  | 100% | 6,000     | 529       | 3,173,314  | 100% | 6,000      | 529       | 3,173,314  | 122% | 7,333             | 529       | 3,878,494   |
|      | 05.05.00 | Backfill Concrete                                       | CY     | 5,150        | 406       | 2,093,338  | 100% | 5,150     | 406       | 2,093,338  | 100% | 5,150      | 406       | 2,093,338  | 122% | 6,294             | 406       | 2,558,525   |
|      | 05.06.00 | Shaping Excavations                                     | CY     | 600          | 32        | 19,286     | 100% | 600       | 32        | 19,286     | 100% | 600        | 32        | 19,286     | 122% | 733               | 32        | 23,572      |
|      | 05.07.00 | Slush Grout                                             | Sacks  | 8,800        | 255       | 2,242,336  | 100% | 8,800     | 255       | 2,242,336  | 100% | 8,800      | 255       | 2,242,336  | 122% | 10,756            | 255       | 2,740,633   |
| 06   | 06.00.00 | GROUTING                                                |        |              |           | 38,804,266 |      |           |           | 38,804,266 |      |            |           | 38,804,266 |      |                   |           | 38,804,266  |
|      | 06.01.00 | Grout Cap                                               | CY     | 6,950        | 1,164     | 8,092,545  | 100% | 6,950     | 1,164     | 8,092,545  | 100% | 6,950      | 1,164     | 8,092,545  | 100% | 6,950             | 1,164     | 8,092,545   |
|      | 06.02.00 | Grout Cap Anchors                                       | LF     | 2,400        | 180       | 431,818    | 100% | 2,400     | 180       | 431,818    | 100% | 2,400      | 180       | 431,818    | 100% | 2,400             | 180       | 431,818     |
|      | 06.03.00 | Grout Cut Off Wall                                      | CY     | -            | -         | -          | 100% | -         | -         | -          | 100% | -          | -         | -          | 100% | -                 | -         | -           |
|      | 06.04.00 | Curtain Grouting - Includes Stich and Fans              | LF     | 150,900      | 196       | 29,528,250 | 100% | 150,900   | 196       | 29,528,250 | 100% | 150,900    | 196       | 29,528,250 | 100% | 150,900           | 196       | 29,528,250  |
|      | 06.05.00 | Consolidation Grouting                                  | LF     | -            | -         | -          | 100% | -         | -         | -          | 100% | -          | -         | -          | 100% | -                 | -         | -           |
|      | 06.06.00 | Type III Cement                                         | Tons   | 2,733        | 275       | 751,653    | 100% | 2,733     | 275       | 751,653    | 100% | 2,733      | 275       | 751,653    | 100% | 2,733             | 275       | 751,653     |
| 07   | 07.00.00 | FOUNDATION PREPARATION - BENEATH SHELL                  |        |              |           | 857,213    |      |           |           | 857,213    |      |            |           | 857,213    |      |                   |           | 942,934     |
|      | 07.01.00 | Foundation Cleaning - Shell                             | SY     | 214,400      | 4         | 857,213    | 100% | 214,400   | 4         | 857,213    | 100% | 214,400    | 4         | 857,213    | 110% | 235,840           | 4         | 942,934     |
| 08   | 08.00.00 | FOUNDATION DRAINAGE                                     |        |              |           | 206,794    |      |           |           | 206,794    |      |            |           | 206,794    |      |                   |           | 206,794     |
|      | 08.01.00 | Furnish and Install Foundation Drain Pipe               | LF     | 450          | 277       | 124,824    | 100% | 450       | 277       | 124,824    | 100% | 450        | 277       | 124,824    | 100% | 450               | 277       | 124,824     |
|      | 08.02.00 | Furnish and Install Foundation Drain Manholes           | EA     | 2            | 20,492    | 40,985     | 100% | 2         | 20,492    | 40,985     | 100% | 2          | 20,492    | 40,985     | 100% | 2                 | 20,492    | 40,985      |
|      | 08.03.00 | Furnish and Install Inspection Well                     | EA     | 2            | 20,492    | 40,985     | 100% | 2         | 20,492    | 40,985     | 100% | 2          | 20,492    | 40,985     | 100% | 2                 | 20,492    | 40,985      |
| 09   | 09.00.00 | ROCK BORROW AREA - DEVELOP, PROCESSING, AND RESTORATION |        |              |           | 89,462,355 |      |           |           | 89,462,355 |      |            |           | 89,462,355 |      |                   |           | 125,137,992 |
|      | 09.01.00 | Strip/Overburden/Waste to Stockpile                     | BCY    | 1,604,100    | 8.96      | 14,379,483 | 100% | 1,604,100 | 9         | 14,379,483 | 100% | 1,604,100  | 9         | 14,379,483 | 149% | 2,383,781         | 9         | 21,368,702  |
|      | 09.02.00 | Drill, Blast, Excavate to Crusher and Riprap Process    | BCY    | 5,354,400    | 6.80      | 36,428,490 | 100% | 5,354,400 | 7         | 36,428,490 | 149% | 5,354,400  | 7         | 36,428,490 | 149% | 7,956,933         | 7         | 54,134,739  |
|      | 09.03.00 | Zone 4A, 4B, Zone 7A Processing                         | ECY    | 502,000      | 32        | 16,064,000 | 100% | 502,000   | 32        | 16,064,000 | 100% | 502,000    | 32        | 16,064,000 | 100% | 502,000           | 32        | 16,064,000  |
|      | 09.04.00 | Riprap and Groin Processing                             | ECY    | 122,300      | 30        | 3,669,000  | 100% | 122,300   | 30        | 3,669,000  | 100% | 122,300    | 30        | 3,669,000  | 149% | 181,745           | 30        | 5,452,336   |
|      | 09.05.00 | Removal of Excess Sand/Siltstone                        | BCY    | 1,019,700    | 13.24     | 13,495,738 | 100% | 1,019,700 | 13        | 13,495,738 | 100% | 1,019,700  | 13        | 13,495,738 | 149% | 1,515,330         | 13        | 20,055,408  |
|      | 09.06.00 | Replace Overburden from Stockpile                       | ECY    | 377,800      | 6.68      | 2,524,157  | 100% | 377,800   | 7         | 2,524,157  | 100% | 377,800    | 7         | 2,524,157  | 149% | 561,432           | 7         | 3,751,036   |
|      | 09.07.00 | Topsoil Replacement                                     | ECY    | 138,000      | 9.90      | 1,366,068  | 100% | 138,000   | 10        | 1,366,068  | 100% | 138,000    | 10        | 1,366,068  | 149% | 205,076           | 10        | 2,030,053   |
|      | 09.08.00 | Seeding                                                 | SF     | 3,572,000    | 0.43      | 1,535,420  | 100% | 3,572,000 | 0         | 1,5        |      |            |           |            |      |                   |           |             |

DIRECT COST LEVEL 2 SUMMARY

| Item              | Sub Item | Description                                                                                                                                    | UoM | 30% Estimate |           |             | Adj  | Core Haul   |           |            | Adj  | Core Slope  |           |            | Adj  | Embankment Slopes |           |            |
|-------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------|-----|--------------|-----------|-------------|------|-------------|-----------|------------|------|-------------|-----------|------------|------|-------------------|-----------|------------|
|                   |          |                                                                                                                                                |     | Qty          | Unit Rate | Total       |      | Qty         | Unit Rate | Total      |      | Qty         | Unit Rate | Total      |      | Qty               | Unit Rate | Total      |
|                   | 10.09.00 | Produce, Haul and Place - Zone 7A - Bedding - Saddles                                                                                          | ECY | -            |           | -           | 100% | -           |           | -          | 100% | -           |           | -          | 100% | -                 |           | -          |
|                   | 10.10.00 | Produce, Haul and Place - Zone 7B - Riprap                                                                                                     | ECY | 122,300      | 22        | 2,686,268   | 100% | 122,300     | 22        | 2,686,268  | 100% | 122,300     | 22        | 2,686,268  | 149% | 181,745           | 22        | 3,991,941  |
|                   | 10.11.00 | Produce, Haul and Place - Groin Protection - Saddles                                                                                           | ECY | -            |           | -           | 100% | -           |           | -          | 100% | -           |           | -          | 149% | -                 |           | -          |
| 11                | 11.00.00 | INSTRUMENTATION AND TELEMETRY                                                                                                                  |     |              |           | 1,854,500   |      |             |           | 1,854,500  |      |             |           | 1,854,500  |      |                   |           | 1,854,500  |
|                   | 11.01.00 | Instrumentation/Telemetry: Instrumentation/Telemetry (piezometers, settlement monitors (survey monuments), seismographs, and slope indicators) | LS  | 1            | 1,854,500 | 1,854,500   | 100% | 1           | 1,854,500 | 1,854,500  | 100% | 1           | 1,854,500 | 1,854,500  | 100% | 1                 | 1,854,500 | 1,854,500  |
| 12                | 12.00.00 | SITE RESTORATION                                                                                                                               |     |              |           | 2,957,730   |      |             |           | 2,957,730  |      |             |           | 2,957,730  |      |                   |           | 2,957,730  |
|                   | 12.01.00 | Seeding                                                                                                                                        | SF  | 460,000      | 0         | 197,730     | 100% | 460,000     | 0         | 197,730    | 100% | 460,000     | 0         | 197,730    | 100% | 460,000           | 0         | 197,730    |
| Zone 4A           | 12.02.00 | Fencing                                                                                                                                        | LF  | 800          | 75        | 60,000      | 100% | 800         | 75        | 60,000     | 100% | 800         | 75        | 60,000     | 100% | 800               | 75        | 60,000     |
|                   | 12.03.00 | Best Management Practices                                                                                                                      | LS  | 1            | 1,500,000 | 1,500,000   | 100% | 1           | 1,500,000 | 1,500,000  | 100% | 1           | 1,500,000 | 1,500,000  | 100% | 1                 | 1,500,000 | 1,500,000  |
|                   | 12.04.00 | Rock Check Dams                                                                                                                                | LS  | 1            | 600,000   | 600,000     | 100% | 1           | 600,000   | 600,000    | 100% | 1           | 600,000   | 600,000    | 100% | 1                 | 600,000   | 600,000    |
|                   | 12.05.00 | Drainage - Inlets, Culverts                                                                                                                    | LS  | 1            | 600,000   | 600,000     | 100% | 1           | 600,000   | 600,000    | 100% | 1           | 600,000   | 600,000    | 100% | 1                 | 600,000   | 600,000    |
| 15                | 15.00.00 | ALLOWANCE FOR UNLISTED ITEMS                                                                                                                   |     |              |           | 17,388,291  |      |             |           | 17,919,441 |      |             |           | 18,615,194 |      |                   |           | 20,832,524 |
|                   | 15.01.00 | Allowance for Unlisted Items                                                                                                                   | %   | 5%           |           | 17,388,291  |      | 1738829144% |           | 17,919,441 |      | #####       |           | 18,615,194 |      | #####             |           | 20,832,524 |
| Total Direct Cost |          |                                                                                                                                                |     |              |           | 365,154,120 |      | 376,308,270 |           |            |      | 390,919,066 |           |            |      | 437,482,995       |           |            |

DIRECT COST LEVEL 2 SUMMARY

| Item | Sub Item | Description                                             | UoM    | 30% Estimate |           |            | Adj  | Overburden |           |             | Adj  | Borrow Quality - 25% |           |            | Adj  | Borrow Quality - 35% |           |             |
|------|----------|---------------------------------------------------------|--------|--------------|-----------|------------|------|------------|-----------|-------------|------|----------------------|-----------|------------|------|----------------------|-----------|-------------|
|      |          |                                                         |        | Qty          | Unit Rate | Total      |      | Qty        | Unit Rate | Total       |      | Qty                  | Unit Rate | Total      |      | Qty                  | Unit Rate | Total       |
| 01   | 01.00.00 | PRECONSTRUCTION ACTIVITIES                              |        |              |           | 7,160,400  |      |            |           | 7,160,400   |      |                      |           | 7,160,400  |      |                      |           | 7,160,400   |
|      | 01.01.00 | Demolition Work                                         | LS     | -            |           | Elsewhere  |      |            |           | Elsewhere   |      | Elsewhere            |           | Elsewhere  |      | Elsewhere            |           | Elsewhere   |
|      | 01.02.00 | Clearing and Grubbing                                   | ACRE   | 53           | 10,239    | 542,647    | 100% | 53         | 10,239    | 542,647     | 100% | 53                   | 10,239    | 542,647    | 100% | 53                   | 10,239    | 542,647     |
|      | 01.03.00 | Reservoir Clearing                                      | ACRE   | -            |           | -          | 100% | -          |           | -           | 100% | -                    |           | -          | 100% | -                    |           | -           |
|      | 01.04.00 | Erosion and Sediment Control                            | ACRE   | 53           | 107,939   | 5,720,793  | 100% | 53         | 107,939   | 5,720,793   | 100% | 53                   | 107,939   | 5,720,793  | 100% | 53                   | 107,939   | 5,720,793   |
|      | 01.05.00 | Developing haul routes - Haul routes inside reservoir   | ACRES  | 43           | 11,137    | 478,903    | 100% | 43         | 11,137    | 478,903     | 100% | 43                   | 11,137    | 478,903    | 100% | 43                   | 11,137    | 478,903     |
|      | 01.06.00 | Developing haul routes - Haul routes outside reservoir  | ACRES  | 22           | 11,137    | 245,020    | 100% | 22         | 11,137    | 245,020     | 100% | 22                   | 11,137    | 245,020    | 100% | 22                   | 11,137    | 245,020     |
|      | 01.07.00 | Developing Stockpile and Staging Areas                  | ACRES  | 10           | 17,304    | 173,036    | 100% | 10         | 17,304    | 173,036     | 100% | 10                   | 17,304    | 173,036    | 100% | 10                   | 17,304    | 173,036     |
| 02   | 02.00.00 | COFFERDAM                                               |        |              |           | 3,794,959  |      |            |           | 3,794,959   |      |                      |           | 3,794,959  |      |                      |           | 3,794,959   |
|      | 02.01.00 | Cofferdam Excavation                                    | BCY    | 85,000       | 16        | 1,369,933  | 100% | 85,000     | 16        | 1,369,933   | 100% | 85,000               | 16        | 1,369,933  | 100% | 85,000               | 16        | 1,369,933   |
|      | 02.02.00 | Cofferdam - Zone 6                                      | ECY    | 10,500       | 12        | 129,719    | 100% | 10,500     | 12        | 129,719     | 100% | 10,500               | 12        | 129,719    | 100% | 10,500               | 12        | 129,719     |
|      | 02.03.00 | Cofferdam - Zone 9                                      | ECY    | 112,400      | 13        | 1,505,307  | 100% | 112,400    | 13        | 1,505,307   | 100% | 112,400              | 13        | 1,505,307  | 100% | 112,400              | 13        | 1,505,307   |
|      | 02.04.00 | Cofferdam - Cutoff Wall                                 | SF     | 16,000       | 40        | 640,000    | 100% | 16,000     | 40        | 640,000     | 100% | 16,000               | 40        | 640,000    | 100% | 16,000               | 40        | 640,000     |
|      | 02.05.00 | Cofferdam - Dewatering Allowance                        | LS     | 1            | 150,000   | 150,000    | 100% | 1          | 150,000   | 150,000     | 100% | 1                    | 150,000   | 150,000    | 100% | 1                    | 150,000   | 150,000     |
| 03   | 03.00.00 | GOLDEN GATE DIVERSION                                   |        |              |           | 13,830,433 |      |            |           | 13,830,433  |      |                      |           | 13,830,433 |      |                      |           | 13,830,433  |
|      | 03.01.00 | Pipe Excavation                                         | BCY    | 7,000        | 30        | 208,595    | 100% | 7,000      | 30        | 208,595     | 100% | 7,000                | 30        | 208,595    | 100% | 7,000                | 30        | 208,595     |
|      | 03.02.00 | Install 48-Inch Steel Pipe and Encasement               | LF     | 2,250        | 3,911     | 8,800,405  | 100% | 2,250      | 3,911     | 8,800,405   | 100% | 2,250                | 3,911     | 8,800,405  | 100% | 2,250                | 3,911     | 8,800,405   |
|      | 03.03.00 | Mass Concrete at GG Core Excavation                     | CY     | 6,133        | 530       | 3,249,658  | 100% | 6,133      | 530       | 3,249,658   | 100% | 6,133                | 530       | 3,249,658  | 100% | 6,133                | 530       | 3,249,658   |
|      | 03.04.00 | Downstream Valve Pad                                    | LS     | 1            | 22,013    | 22,013     | 100% | 1          | 22,013    | 22,013      | 100% | 1                    | 22,013    | 22,013     | 100% | 1                    | 22,013    | 22,013      |
|      | 03.04.00 | Mechanical Scope of Work                                | LS     | 1            | 724,646   | 724,646    | 100% | 1          | 724,646   | 724,646     | 100% | 1                    | 724,646   | 724,646    | 100% | 1                    | 724,646   | 724,646     |
|      | 03.05.00 | Upstream Inlet                                          | CY     | 1            | 46,859    | 46,859     | 100% | 1          | 46,859    | 46,859      | 100% | 1                    | 46,859    | 46,859     | 100% | 1                    | 46,859    | 46,859      |
|      | 03.06.00 | Riprap Discharge Channel                                | CY     | 70           | 167       | 11,722     | 100% | 70         | 167       | 11,722      | 100% | 70                   | 167       | 11,722     | 100% | 70                   | 167       | 11,722      |
|      | 03.07.00 | Grout Backfill to Seal Pipe                             | CY     | 1,009        | 760       | 766,535    | 100% | 1,009      | 760       | 766,535     | 100% | 1,009                | 760       | 766,535    | 100% | 1,009                | 760       | 766,535     |
| 04   | 04.00.00 | FOUNDATION EXCAVATION                                   |        |              |           | 16,808,867 |      |            |           | 16,808,867  |      |                      |           | 16,808,867 |      |                      |           | 16,808,867  |
|      | 04.01.00 | Topsoil Salvage                                         | BCY    | 138,000      | 6         | 853,970    | 100% | 138,000    | 6         | 853,970     | 100% | 138,000              | 6         | 853,970    | 100% | 138,000              | 6         | 853,970     |
|      | 04.02.00 | Drill and Shoot Foundation                              | BCY    | 126,600      | 15        | 1,865,677  | 100% | 126,600    | 15        | 1,865,677   | 100% | 126,600              | 15        | 1,865,677  | 100% | 126,600              | 15        | 1,865,677   |
|      | 04.03.00 | Dam Foundation Excavation                               | BCY    | 1,266,000    | 10        | 12,649,220 | 100% | 1,266,000  | 10        | 12,649,220  | 100% | 1,266,000            | 10        | 12,649,220 | 100% | 1,266,000            | 10        | 12,649,220  |
|      | 04.05.00 | Dewatering allowance                                    | Months | 18           | 80,000    | 1,440,000  | 100% | 18         | 80,000    | 1,440,000   | 100% | 18                   | 80,000    | 1,440,000  | 100% | 18                   | 80,000    | 1,440,000   |
| 05   | 05.00.00 | FOUNDATION PREPARATION - BENEATH CORE                   |        |              |           | 9,432,360  |      |            |           | 9,432,360   |      |                      |           | 9,432,360  |      |                      |           | 9,432,360   |
|      | 05.01.00 | Initial Foundation Cleaning - Core                      | SY     | 29,300       | 26        | 758,974    | 100% | 29,300     | 26        | 758,974     | 100% | 29,300               | 26        | 758,974    | 100% | 29,300               | 26        | 758,974     |
|      | 05.02.00 | Final Foundation Cleaning - Core                        | SY     | 29,300       | 34        | 1,000,466  | 100% | 29,300     | 34        | 1,000,466   | 100% | 29,300               | 34        | 1,000,466  | 100% | 29,300               | 34        | 1,000,466   |
|      | 05.03.00 | Dental Excavation                                       | CY     | 6,000        | 24        | 144,646    | 100% | 6,000      | 24        | 144,646     | 100% | 6,000                | 24        | 144,646    | 100% | 6,000                | 24        | 144,646     |
|      | 05.04.00 | Dental Concrete                                         | CY     | 6,000        | 529       | 3,173,314  | 100% | 6,000      | 529       | 3,173,314   | 100% | 6,000                | 529       | 3,173,314  | 100% | 6,000                | 529       | 3,173,314   |
|      | 05.05.00 | Backfill Concrete                                       | CY     | 5,150        | 406       | 2,093,338  | 100% | 5,150      | 406       | 2,093,338   | 100% | 5,150                | 406       | 2,093,338  | 100% | 5,150                | 406       | 2,093,338   |
|      | 05.06.00 | Shaping Excavations                                     | CY     | 600          | 32        | 19,286     | 100% | 600        | 32        | 19,286      | 100% | 600                  | 32        | 19,286     | 100% | 600                  | 32        | 19,286      |
|      | 05.07.00 | Slush Grout                                             | Sacks  | 8,800        | 255       | 2,242,336  | 100% | 8,800      | 255       | 2,242,336   | 100% | 8,800                | 255       | 2,242,336  | 100% | 8,800                | 255       | 2,242,336   |
| 06   | 06.00.00 | GROUTING                                                |        |              |           | 38,804,266 |      |            |           | 38,804,266  |      |                      |           | 38,804,266 |      |                      |           | 38,804,266  |
|      | 06.01.00 | Grout Cap                                               | CY     | 6,950        | 1,164     | 8,092,545  | 100% | 6,950      | 1,164     | 8,092,545   | 100% | 6,950                | 1,164     | 8,092,545  | 100% | 6,950                | 1,164     | 8,092,545   |
|      | 06.02.00 | Grout Cap Anchors                                       | LF     | 2,400        | 180       | 431,818    | 100% | 2,400      | 180       | 431,818     | 100% | 2,400                | 180       | 431,818    | 100% | 2,400                | 180       | 431,818     |
|      | 06.03.00 | Grout Cut Off Wall                                      | CY     | -            |           | -          | 100% | -          |           | -           | 100% | -                    |           | -          | 100% | -                    |           | -           |
|      | 06.04.00 | Curtain Grouting - Includes Stich and Fans              | LF     | 150,900      | 196       | 29,528,250 | 100% | 150,900    | 196       | 29,528,250  | 100% | 150,900              | 196       | 29,528,250 | 100% | 150,900              | 196       | 29,528,250  |
|      | 06.05.00 | Consolidation Grouting                                  | LF     | -            |           | -          | 100% | -          |           | -           | 100% | -                    |           | -          | 100% | -                    |           | -           |
|      | 06.06.00 | Type III Cement                                         | Tons   | 2,733        | 275       | 751,653    | 100% | 2,733      | 275       | 751,653     | 100% | 2,733                | 275       | 751,653    | 100% | 2,733                | 275       | 751,653     |
| 07   | 07.00.00 | FOUNDATION PREPARATION - BENEATH SHELL                  |        |              |           | 857,213    |      |            |           | 857,213     |      |                      |           | 857,213    |      |                      |           | 857,213     |
|      | 07.01.00 | Foundation Cleaning - Shell                             | SY     | 214,400      | 4         | 857,213    | 100% | 214,400    | 4         | 857,213     | 100% | 214,400              | 4         | 857,213    | 100% | 214,400              | 4         | 857,213     |
| 08   | 08.00.00 | FOUNDATION DRAINAGE                                     |        |              |           | 206,794    |      |            |           | 206,794     |      |                      |           | 206,794    |      |                      |           | 206,794     |
|      | 08.01.00 | Furnish and Install Foundation Drain Pipe               | LF     | 450          | 277       | 124,824    | 100% | 450        | 277       | 124,824     | 100% | 450                  | 277       | 124,824    | 100% | 450                  | 277       | 124,824     |
|      | 08.02.00 | Furnish and Install Foundation Drain Manholes           | EA     | 2            | 20,492    | 40,985     | 100% | 2          | 20,492    | 40,985      | 100% | 2                    | 20,492    | 40,985     | 100% | 2                    | 20,492    | 40,985      |
|      | 08.03.00 | Furnish and Install Inspection Well                     | EA     | 2            | 20,492    | 40,985     | 100% | 2          | 20,492    | 40,985      | 100% | 2                    | 20,492    | 40,985     | 100% | 2                    | 20,492    | 40,985      |
| 09   | 09.00.00 | ROCK BORROW AREA - DEVELOP, PROCESSING, AND RESTORATION |        |              |           | 89,462,355 |      |            |           | 103,841,838 |      |                      |           | 98,459,514 |      |                      |           | 107,456,672 |
|      | 09.01.00 | Strip/Overburden/Waste to Stockpile                     | BCY    | 1,604,100    | 8.96      | 14,379,483 | 200% | 3,208,200  | 9         | 28,758,965  | 100% | 1,604,100            | 9         | 14,379,483 | 100% | 1,604,100            | 9         | 14,379,483  |
|      | 09.02.00 | Drill, Blast, Excavate to Crusher and Riprap Process    | BCY    | 5,354,400    | 6.80      | 36,428,490 | 100% | 5,354,400  | 7         | 36,428,490  | 100% | 5,354,400            | 7         | 36,428,490 | 100% | 5,354,400            | 7         | 36,428,490  |
|      | 09.03.00 | Zone 4A, 4B, Zone 7A Processing                         | ECY    | 502,000      | 32        | 16,064,000 | 100% | 502,000    | 32        | 16,064,000  | 100% | 502,000              | 32        | 16,064,000 | 100% | 502,000              | 32        | 16,064,000  |
|      | 09.04.00 | Riprap and Groin Processing                             | ECY    | 122,300      | 30        | 3,669,000  | 100% | 122,300    | 30        | 3,669,000   | 100% | 122,300              | 30        | 3,669,000  | 100% | 122,300              | 30        | 3,669,000   |
|      | 09.05.00 | Removal of Excess Sand/Siltstone                        | BCY    | 1,019,700    | 13.24     | 13,495,738 | 100% | 1,019,700  | 13        | 13,495,738  | 167% | 1,699,500            | 13        | 22,492,896 | 233% | 2,379,300            | 13        | 31,490,054  |
|      | 09.06.00 | Replace Overburden from Stockpile                       | ECY    | 377,800      | 6.68      | 2,524,157  | 100% | 377,800    | 7         | 2,524,157   | 100% | 377,800              | 7         | 2,524,157  | 100% | 377,800              | 7         | 2,524,157   |
|      | 09.07.00 | Topsoil Replacement                                     | ECY    | 138,000      | 9.90      | 1,366,068  | 100% | 138,000    | 10        | 1,366,068   | 100% | 138,000              | 10        | 1,366,068  | 100% | 138,000              | 10        | 1,366,068   |
|      | 09.08.00 | Seeding                                                 | SF     | 3,572,000    | 0.43      | 1,535,420  | 100% | 3,572,000  | 0         | 1,535,420,  |      |                      |           |            |      |                      |           |             |

DIRECT COST LEVEL 2 SUMMARY

| Item              | Sub Item | Description                                                                                                                                    | UoM | 30% Estimate |           |             | Adj  | Overburden  |           |             | Adj  | Borrow Quality - 25% |           |             | Adj  | Borrow Quality - 35% |           |             |
|-------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------|-----|--------------|-----------|-------------|------|-------------|-----------|-------------|------|----------------------|-----------|-------------|------|----------------------|-----------|-------------|
|                   |          |                                                                                                                                                |     | Qty          | Unit Rate | Total       |      | Qty         | Unit Rate | Total       |      | Qty                  | Unit Rate | Total       |      | Qty                  | Unit Rate | Total       |
|                   | 10.09.00 | Produce, Haul and Place - Zone 7A - Bedding - Saddles                                                                                          | ECY | -            |           | -           | 100% | -           |           | -           | 100% | -                    |           | -           | 100% | -                    |           | -           |
|                   | 10.10.00 | Produce, Haul and Place - Zone 7B - Riprap                                                                                                     | ECY | 122,300      | 22        | 2,686,268   | 100% | 122,300     | 22        | 2,686,268   | 100% | 122,300              | 22        | 2,686,268   | 100% | 122,300              | 22        | 2,686,268   |
|                   | 10.11.00 | Produce, Haul and Place - Groin Protection - Saddles                                                                                           | ECY | -            |           | -           | 100% | -           |           | -           | 100% | -                    |           | -           | 100% | -                    |           | -           |
| 11                | 11.00.00 | INSTRUMENTATION AND TELEMETRY                                                                                                                  |     |              |           | 1,854,500   |      |             |           | 1,854,500   |      |                      |           | 1,854,500   |      |                      |           | 1,854,500   |
|                   | 11.01.00 | Instrumentation/Telemetry: Instrumentation/Telemetry (piezometers, settlement monitors (survey monuments), seismographs, and slope indicators) | LS  | 1            | 1,854,500 | 1,854,500   | 100% | 1           | 1,854,500 | 1,854,500   | 100% | 1                    | 1,854,500 | 1,854,500   | 100% | 1                    | 1,854,500 | 1,854,500   |
| 12                | 12.00.00 | SITE RESTORATION                                                                                                                               |     |              |           | 2,957,730   |      |             |           | 2,957,730   |      |                      |           | 2,957,730   |      |                      |           | 2,957,730   |
|                   | 12.01.00 | Seeding                                                                                                                                        | SF  | 460,000      | 0         | 197,730     | 100% | 460,000     | 0         | 197,730     | 100% | 460,000              | 0         | 197,730     | 100% | 460,000              | 0         | 197,730     |
| Zone 4A           | 12.02.00 | Fencing                                                                                                                                        | LF  | 800          | 75        | 60,000      | 100% | 800         | 75        | 60,000      | 100% | 800                  | 75        | 60,000      | 100% | 800                  | 75        | 60,000      |
|                   | 12.03.00 | Best Management Practices                                                                                                                      | LS  | 1            | 1,500,000 | 1,500,000   | 100% | 1           | 1,500,000 | 1,500,000   | 100% | 1                    | 1,500,000 | 1,500,000   | 100% | 1                    | 1,500,000 | 1,500,000   |
|                   | 12.04.00 | Rock Check Dams                                                                                                                                | LS  | 1            | 600,000   | 600,000     | 100% | 1           | 600,000   | 600,000     | 100% | 1                    | 600,000   | 600,000     | 100% | 1                    | 600,000   | 600,000     |
|                   | 12.05.00 | Drainage - Inlets, Culverts                                                                                                                    | LS  | 1            | 600,000   | 600,000     | 100% | 1           | 600,000   | 600,000     | 100% | 1                    | 600,000   | 600,000     | 100% | 1                    | 600,000   | 600,000     |
| 15                | 15.00.00 | ALLOWANCE FOR UNLISTED ITEMS                                                                                                                   |     |              |           | 17,388,291  |      |             |           | 18,107,266  |      |                      |           | 17,838,149  |      |                      |           | 18,288,007  |
|                   | 15.01.00 | Allowance for Unlisted Items                                                                                                                   | %   | 5%           |           | 17,388,291  |      | 1738829144% |           | 18,107,266  |      | #####                |           | 17,838,149  |      | #####                |           | 18,288,007  |
| Total Direct Cost |          |                                                                                                                                                |     |              |           | 365,154,120 |      |             |           | 380,252,577 |      |                      |           | 374,601,137 |      |                      |           | 384,048,153 |

DIRECT COST LEVEL 2 SUMMARY

| Item | Sub Item | Description                                             | UoM    | 30% Estimate |           |            | Adj  | F&D +25%  |           |            | Adj  | Transitions Offsite |           |            | Adj  | Transitions +25% |           |            |
|------|----------|---------------------------------------------------------|--------|--------------|-----------|------------|------|-----------|-----------|------------|------|---------------------|-----------|------------|------|------------------|-----------|------------|
|      |          |                                                         |        | Qty          | Unit Rate | Total      |      | Qty       | Unit Rate | Total      |      | Qty                 | Unit Rate | Total      |      | Qty              | Unit Rate | Total      |
| 01   | 01.00.00 | PRECONSTRUCTION ACTIVITIES                              |        |              |           | 7,160,400  |      |           |           | 7,160,400  |      |                     |           | 7,160,400  |      |                  |           | 7,160,400  |
|      | 01.01.00 | Demolition Work                                         | LS     | -            | -         | Elsewhere  |      |           |           | Elsewhere  |      | Elsewhere           |           | Elsewhere  |      | Elsewhere        |           | Elsewhere  |
|      | 01.02.00 | Clearing and Grubbing                                   | ACRE   | 53           | 10,239    | 542,647    | 100% | 53        | 10,239    | 542,647    | 100% | 53                  | 10,239    | 542,647    | 100% | 53               | 10,239    | 542,647    |
|      | 01.03.00 | Reservoir Clearing                                      | ACRE   | -            | -         | -          | 100% | -         | -         | -          | 100% | -                   | -         | -          | 100% | -                | -         | -          |
|      | 01.04.00 | Erosion and Sediment Control                            | ACRE   | 53           | 107,939   | 5,720,793  | 100% | 53        | 107,939   | 5,720,793  | 100% | 53                  | 107,939   | 5,720,793  | 100% | 53               | 107,939   | 5,720,793  |
|      | 01.05.00 | Developing haul routes - Haul routes inside reservoir   | ACRES  | 43           | 11,137    | 478,903    | 100% | 43        | 11,137    | 478,903    | 100% | 43                  | 11,137    | 478,903    | 100% | 43               | 11,137    | 478,903    |
|      | 01.06.00 | Developing haul routes - Haul routes outside reservoir  | ACRES  | 22           | 11,137    | 245,020    | 100% | 22        | 11,137    | 245,020    | 100% | 22                  | 11,137    | 245,020    | 100% | 22               | 11,137    | 245,020    |
|      | 01.07.00 | Developing Stockpile and Staging Areas                  | ACRES  | 10           | 17,304    | 173,036    | 100% | 10        | 17,304    | 173,036    | 100% | 10                  | 17,304    | 173,036    | 100% | 10               | 17,304    | 173,036    |
| 02   | 02.00.00 | COFFERDAM                                               |        |              |           | 3,794,959  |      |           |           | 3,794,959  |      |                     |           | 3,794,959  |      |                  |           | 3,794,959  |
|      | 02.01.00 | Cofferdam Excavation                                    | BCY    | 85,000       | 16        | 1,369,933  | 100% | 85,000    | 16        | 1,369,933  | 100% | 85,000              | 16        | 1,369,933  | 100% | 85,000           | 16        | 1,369,933  |
|      | 02.02.00 | Cofferdam - Zone 6                                      | ECY    | 10,500       | 12        | 129,719    | 100% | 10,500    | 12        | 129,719    | 100% | 10,500              | 12        | 129,719    | 100% | 10,500           | 12        | 129,719    |
|      | 02.03.00 | Cofferdam - Zone 9                                      | ECY    | 112,400      | 13        | 1,505,307  | 100% | 112,400   | 13        | 1,505,307  | 100% | 112,400             | 13        | 1,505,307  | 100% | 112,400          | 13        | 1,505,307  |
|      | 02.04.00 | Cofferdam - Cutoff Wall                                 | SF     | 16,000       | 40        | 640,000    | 100% | 16,000    | 40        | 640,000    | 100% | 16,000              | 40        | 640,000    | 100% | 16,000           | 40        | 640,000    |
|      | 02.05.00 | Cofferdam - Dewatering Allowance                        | LS     | 1            | 150,000   | 150,000    | 100% | 1         | 150,000   | 150,000    | 100% | 1                   | 150,000   | 150,000    | 100% | 1                | 150,000   | 150,000    |
| 03   | 03.00.00 | GOLDEN GATE DIVERSION                                   |        |              |           | 13,830,433 |      |           |           | 13,830,433 |      |                     |           | 13,830,433 |      |                  |           | 13,830,433 |
|      | 03.01.00 | Pipe Excavation                                         | BCY    | 7,000        | 30        | 208,595    | 100% | 7,000     | 30        | 208,595    | 100% | 7,000               | 30        | 208,595    | 100% | 7,000            | 30        | 208,595    |
|      | 03.02.00 | Install 48-Inch Steel Pipe and Encasement               | LF     | 2,250        | 3,911     | 8,800,405  | 100% | 2,250     | 3,911     | 8,800,405  | 100% | 2,250               | 3,911     | 8,800,405  | 100% | 2,250            | 3,911     | 8,800,405  |
|      | 03.03.00 | Mass Concrete at GG Core Excavation                     | CY     | 6,133        | 530       | 3,249,658  | 100% | 6,133     | 530       | 3,249,658  | 100% | 6,133               | 530       | 3,249,658  | 100% | 6,133            | 530       | 3,249,658  |
|      | 03.04.00 | Downstream Valve Pad                                    | LS     | 1            | 22,013    | 22,013     | 100% | 1         | 22,013    | 22,013     | 100% | 1                   | 22,013    | 22,013     | 100% | 1                | 22,013    | 22,013     |
|      | 03.04.00 | Mechanical Scope of Work                                | LS     | 1            | 724,646   | 724,646    | 100% | 1         | 724,646   | 724,646    | 100% | 1                   | 724,646   | 724,646    | 100% | 1                | 724,646   | 724,646    |
|      | 03.05.00 | Upstream Inlet                                          | CY     | 1            | 46,859    | 46,859     | 100% | 1         | 46,859    | 46,859     | 100% | 1                   | 46,859    | 46,859     | 100% | 1                | 46,859    | 46,859     |
|      | 03.06.00 | Riprap Discharge Channel                                | CY     | 70           | 167       | 11,722     | 100% | 70        | 167       | 11,722     | 100% | 70                  | 167       | 11,722     | 100% | 70               | 167       | 11,722     |
|      | 03.07.00 | Grout Backfill to Seal Pipe                             | CY     | 1,009        | 760       | 766,535    | 100% | 1,009     | 760       | 766,535    | 100% | 1,009               | 760       | 766,535    | 100% | 1,009            | 760       | 766,535    |
| 04   | 04.00.00 | FOUNDATION EXCAVATION                                   |        |              |           | 16,808,867 |      |           |           | 16,808,867 |      |                     |           | 16,808,867 |      |                  |           | 16,808,867 |
|      | 04.01.00 | Topsoil Salvage                                         | BCY    | 138,000      | 6         | 853,970    | 100% | 138,000   | 6         | 853,970    | 100% | 138,000             | 6         | 853,970    | 100% | 138,000          | 6         | 853,970    |
|      | 04.02.00 | Drill and Shoot Foundation                              | BCY    | 126,600      | 15        | 1,865,677  | 100% | 126,600   | 15        | 1,865,677  | 100% | 126,600             | 15        | 1,865,677  | 100% | 126,600          | 15        | 1,865,677  |
|      | 04.03.00 | Dam Foundation Excavation                               | BCY    | 1,266,000    | 10        | 12,649,220 | 100% | 1,266,000 | 10        | 12,649,220 | 100% | 1,266,000           | 10        | 12,649,220 | 100% | 1,266,000        | 10        | 12,649,220 |
|      | 04.05.00 | Dewatering allowance                                    | Months | 18           | 80,000    | 1,440,000  | 100% | 18        | 80,000    | 1,440,000  | 100% | 18                  | 80,000    | 1,440,000  | 100% | 18               | 80,000    | 1,440,000  |
| 05   | 05.00.00 | FOUNDATION PREPARATION - BENEATH CORE                   |        |              |           | 9,432,360  |      |           |           | 9,432,360  |      |                     |           | 9,432,360  |      |                  |           | 9,432,360  |
|      | 05.01.00 | Initial Foundation Cleaning - Core                      | SY     | 29,300       | 26        | 758,974    | 100% | 29,300    | 26        | 758,974    | 100% | 29,300              | 26        | 758,974    | 100% | 29,300           | 26        | 758,974    |
|      | 05.02.00 | Final Foundation Cleaning- Core                         | SY     | 29,300       | 34        | 1,000,466  | 100% | 29,300    | 34        | 1,000,466  | 100% | 29,300              | 34        | 1,000,466  | 100% | 29,300           | 34        | 1,000,466  |
|      | 05.03.00 | Dental Excavation                                       | CY     | 6,000        | 24        | 144,646    | 100% | 6,000     | 24        | 144,646    | 100% | 6,000               | 24        | 144,646    | 100% | 6,000            | 24        | 144,646    |
|      | 05.04.00 | Dental Concrete                                         | CY     | 6,000        | 529       | 3,173,314  | 100% | 6,000     | 529       | 3,173,314  | 100% | 6,000               | 529       | 3,173,314  | 100% | 6,000            | 529       | 3,173,314  |
|      | 05.05.00 | Backfill Concrete                                       | CY     | 5,150        | 406       | 2,093,338  | 100% | 5,150     | 406       | 2,093,338  | 100% | 5,150               | 406       | 2,093,338  | 100% | 5,150            | 406       | 2,093,338  |
|      | 05.06.00 | Shaping Excavations                                     | CY     | 600          | 32        | 19,286     | 100% | 600       | 32        | 19,286     | 100% | 600                 | 32        | 19,286     | 100% | 600              | 32        | 19,286     |
|      | 05.07.00 | Slush Grout                                             | Sacks  | 8,800        | 255       | 2,242,336  | 100% | 8,800     | 255       | 2,242,336  | 100% | 8,800               | 255       | 2,242,336  | 100% | 8,800            | 255       | 2,242,336  |
| 06   | 06.00.00 | GROUTING                                                |        |              |           | 38,804,266 |      |           |           | 38,804,266 |      |                     |           | 38,804,266 |      |                  |           | 38,804,266 |
|      | 06.01.00 | Grout Cap                                               | CY     | 6,950        | 1,164     | 8,092,545  | 100% | 6,950     | 1,164     | 8,092,545  | 100% | 6,950               | 1,164     | 8,092,545  | 100% | 6,950            | 1,164     | 8,092,545  |
|      | 06.02.00 | Grout Cap Anchors                                       | LF     | 2,400        | 180       | 431,818    | 100% | 2,400     | 180       | 431,818    | 100% | 2,400               | 180       | 431,818    | 100% | 2,400            | 180       | 431,818    |
|      | 06.03.00 | Grout Cut Off Wall                                      | CY     | -            | -         | -          | 100% | -         | -         | -          | 100% | -                   | -         | -          | 100% | -                | -         | -          |
|      | 06.04.00 | Curtain Grouting - Includes Stich and Fans              | LF     | 150,900      | 196       | 29,528,250 | 100% | 150,900   | 196       | 29,528,250 | 100% | 150,900             | 196       | 29,528,250 | 100% | 150,900          | 196       | 29,528,250 |
|      | 06.05.00 | Consolidation Grouting                                  | LF     | -            | -         | -          | 100% | -         | -         | -          | 100% | -                   | -         | -          | 100% | -                | -         | -          |
|      | 06.06.00 | Type III Cement                                         | Tons   | 2,733        | 275       | 751,653    | 100% | 2,733     | 275       | 751,653    | 100% | 2,733               | 275       | 751,653    | 100% | 2,733            | 275       | 751,653    |
| 07   | 07.00.00 | FOUNDATION PREPARATION - BENEATH SHELL                  |        |              |           | 857,213    |      |           |           | 857,213    |      |                     |           | 857,213    |      |                  |           | 857,213    |
|      | 07.01.00 | Foundation Cleaning- Shell                              | SY     | 214,400      | 4         | 857,213    | 100% | 214,400   | 4         | 857,213    | 100% | 214,400             | 4         | 857,213    | 100% | 214,400          | 4         | 857,213    |
| 08   | 08.00.00 | FOUNDATION DRAINAGE                                     |        |              |           | 206,794    |      |           |           | 206,794    |      |                     |           | 206,794    |      |                  |           | 206,794    |
|      | 08.01.00 | Furnish and Install Foundation Drain Pipe               | LF     | 450          | 277       | 124,824    | 100% | 450       | 277       | 124,824    | 100% | 450                 | 277       | 124,824    | 100% | 450              | 277       | 124,824    |
|      | 08.02.00 | Furnish and Install Foundation Drain Manholes           | EA     | 2            | 20,492    | 40,985     | 100% | 2         | 20,492    | 40,985     | 100% | 2                   | 20,492    | 40,985     | 100% | 2                | 20,492    | 40,985     |
|      | 08.03.00 | Furnish and Install Inspection Well                     | EA     | 2            | 20,492    | 40,985     | 100% | 2         | 20,492    | 40,985     | 100% | 2                   | 20,492    | 40,985     | 100% | 2                | 20,492    | 40,985     |
| 09   | 09.00.00 | ROCK BORROW AREA - DEVELOP, PROCESSING, AND RESTORATION |        |              |           | 89,462,355 |      |           |           | 89,462,355 |      |                     |           | 89,462,355 |      |                  |           | 93,183,290 |
|      | 09.01.00 | Strip/Overburden/Waste to Stockpile                     | BCY    | 1,604,100    | 8.96      | 14,379,483 | 100% | 1,604,100 | 9         | 14,379,483 | 100% | 1,604,100           | 9         | 14,379,483 | 100% | 1,604,100        | 9         | 14,379,483 |
|      | 09.02.00 | Drill, Blast, Excavate to Crusher and Riprap Process    | BCY    | 5,354,400    | 6.80      | 36,428,490 | 100% | 5,354,400 | 7         | 36,428,490 | 100% | 5,354,400           | 7         | 36,428,490 | 100% | 5,354,400        | 7         | 36,428,490 |
|      | 09.03.00 | Zone 4A, 4B, Zone 7A Processing                         | ECY    | 502,000      | 32        | 16,064,000 | 100% | 502,000   | 32        | 16,064,000 | 100% | 502,000             | 32        | 16,064,000 | 125% | 627,500          | 32        | 20,080,000 |
|      | 09.04.00 | Riprap and Groin Processing                             | ECY    | 122,300      | 30        | 3,669,000  | 100% | 122,300   | 30        | 3,669,000  | 100% | 122,300             | 30        | 3,669,000  | 0%   | -                | 30        | -          |
|      | 09.05.00 | Removal of Excess Sand/Siltstone                        | BCY    | 1,019,700    | 13.24     | 13,495,738 | 100% | 1,019,700 | 13        | 13,495,738 | 100% | 1,019,700           | 13        | 13,495,738 | 125% | 1,274,625        | 13        | 16,869,672 |
|      | 09.06.00 | Replace Overburden from Stockpile                       | ECY    | 377,800      | 6.68      | 2,524,157  | 100% | 377,800   | 7         | 2,524,157  | 100% | 377,800             | 7         | 2,524,157  | 100% | 377,800          | 7         | 2,524,157  |
|      | 09.07.00 | Topsoil Replacement                                     | ECY    | 138,000      | 9.90      | 1,366,068  | 100% | 138,000   | 10        | 1,366,068  | 100% | 138,000             | 10        | 1,366,068  | 100% | 138,000          | 10        | 1,366,068  |
|      | 09.08.00 | Seeding                                                 | SF     | 3,572,000    | 0.43      | 1,535,420  | 100% | 3,572,000 | 0         | 1,535,420  | 100% |                     |           |            |      |                  |           |            |

DIRECT COST LEVEL 2 SUMMARY

| Item              | Sub Item | Description                                                                                                                                    | UoM | 30% Estimate |           |             | Adj  | F&D +25%    |           |             | Adj  | Transitions Offsite |           |             | Adj  | Transitions +25% |           |             |
|-------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------|-----|--------------|-----------|-------------|------|-------------|-----------|-------------|------|---------------------|-----------|-------------|------|------------------|-----------|-------------|
|                   |          |                                                                                                                                                |     | Qty          | Unit Rate | Total       |      | Qty         | Unit Rate | Total       |      | Qty                 | Unit Rate | Total       |      | Qty              | Unit Rate | Total       |
|                   | 10.09.00 | Produce, Haul and Place - Zone 7A - Bedding - Saddles                                                                                          | ECY | -            |           | -           | 100% | -           |           | -           | 100% | -                   |           | -           | 100% | -                |           | -           |
|                   | 10.10.00 | Produce, Haul and Place - Zone 7B - Riprap                                                                                                     | ECY | 122,300      | 22        | 2,686,268   | 100% | 122,300     | 22        | 2,686,268   | 100% | 122,300             | 22        | 2,686,268   | 100% | 122,300          | 22        | 2,686,268   |
|                   | 10.11.00 | Produce, Haul and Place - Groin Protection - Saddles                                                                                           | ECY | -            |           | -           | 100% | -           |           | -           | 100% | -                   |           | -           | 100% | -                |           | -           |
| 11                | 11.00.00 | INSTRUMENTATION AND TELEMETRY                                                                                                                  |     |              |           | 1,854,500   |      |             |           | 1,854,500   |      |                     |           | 1,854,500   |      |                  |           | 1,854,500   |
|                   | 11.01.00 | Instrumentation/Telemetry: Instrumentation/Telemetry (piezometers, settlement monitors (survey monuments), seismographs, and slope indicators) | LS  | 1            | 1,854,500 | 1,854,500   | 100% | 1           | 1,854,500 | 1,854,500   | 100% | 1                   | 1,854,500 | 1,854,500   | 100% | 1                | 1,854,500 | 1,854,500   |
| 12                | 12.00.00 | SITE RESTORATION                                                                                                                               |     |              |           | 2,957,730   |      |             |           | 2,957,730   |      |                     |           | 2,957,730   |      |                  |           | 2,957,730   |
|                   | 12.01.00 | Seeding                                                                                                                                        | SF  | 460,000      | 0         | 197,730     | 100% | 460,000     | 0         | 197,730     | 100% | 460,000             | 0         | 197,730     | 100% | 460,000          | 0         | 197,730     |
| Zone 4A           | 12.02.00 | Fencing                                                                                                                                        | LF  | 800          | 75        | 60,000      | 100% | 800         | 75        | 60,000      | 100% | 800                 | 75        | 60,000      | 100% | 800              | 75        | 60,000      |
|                   | 12.03.00 | Best Management Practices                                                                                                                      | LS  | 1            | 1,500,000 | 1,500,000   | 100% | 1           | 1,500,000 | 1,500,000   | 100% | 1                   | 1,500,000 | 1,500,000   | 100% | 1                | 1,500,000 | 1,500,000   |
|                   | 12.04.00 | Rock Check Dams                                                                                                                                | LS  | 1            | 600,000   | 600,000     | 100% | 1           | 600,000   | 600,000     | 100% | 1                   | 600,000   | 600,000     | 100% | 1                | 600,000   | 600,000     |
|                   | 12.05.00 | Drainage - Inlets, Culverts                                                                                                                    | LS  | 1            | 600,000   | 600,000     | 100% | 1           | 600,000   | 600,000     | 100% | 1                   | 600,000   | 600,000     | 100% | 1                | 600,000   | 600,000     |
| 15                | 15.00.00 | ALLOWANCE FOR UNLISTED ITEMS                                                                                                                   |     |              |           | 17,388,291  |      |             |           | 18,178,847  |      |                     |           | 20,371,942  |      |                  |           | 17,738,740  |
|                   | 15.01.00 | Allowance for Unlisted Items                                                                                                                   | %   | 5%           |           | 17,388,291  |      | 1738829144% |           | 18,178,847  |      | #####               |           | 20,371,942  |      | #####            |           | 17,738,740  |
| Total Direct Cost |          |                                                                                                                                                |     |              |           | 365,154,120 |      |             |           | 381,755,795 |      |                     |           | 427,810,777 |      |                  |           | 372,513,536 |

Sites Reservoir  
 Sites Dam Contingency Estimates  
 Sites, CA

Cost Estimate  
 AACEI Class 3  
 February 27, 2025

| Construction Cost Estimate                         |                  |                           |                     |                     |                     |                    |
|----------------------------------------------------|------------------|---------------------------|---------------------|---------------------|---------------------|--------------------|
|                                                    |                  | 30% Design 15' Excavation | 1A - 20' Excavation | 1B - 25' Excavation | 1C - 30' Excavation | 300k CY Landslide  |
| <b>Total Direct Cost (\$)</b>                      |                  | <b>138,500,995</b>        | <b>146,475,478</b>  | <b>154,449,961</b>  | <b>162,424,444</b>  | <b>143,224,846</b> |
| TOTAL DIRECT COST BEFORE CONTRACTOR INDIRECT COSTS |                  | 138,500,995               | 146,475,478         | 154,449,961         | 162,424,444         | 143,224,846        |
| Mobilization                                       | 5.0%             | 6,925,050                 | 7,323,774           | 7,722,498           | 8,121,222           | 7,161,242          |
| Field Overhead Costs (GC&GR)                       | 17.0%            | 24,722,428                | 26,145,873          | 27,569,318          | 28,992,763          | 25,565,635         |
| Insurance                                          | 2.0%             | 3,402,969                 | 3,598,902           | 3,794,836           | 3,990,769           | 3,519,034          |
| Bonds                                              | 0.6%             | 1,041,309                 | 1,101,264           | 1,161,220           | 1,221,175           | 1,076,825          |
| Total Contractor Indirect Costs                    |                  | 36,091,756                | 38,169,813          | 40,247,872          | 42,325,929          | 37,322,736         |
| TOTAL CONTACTOR COSTS                              |                  | 174,592,751               | 184,645,291         | 194,697,833         | 204,750,373         | 180,547,582        |
| Home Office Overhead (G&A)                         | 6.5%             | 11,348,529                | 12,001,944          | 12,655,359          | 13,308,774          | 11,735,593         |
| GC Profit                                          | 10.0%            | 18,594,128                | 19,664,723          | 20,735,319          | 21,805,915          | 19,228,317         |
| Total Contractor Overhead and Profit               |                  | 29,942,657                | 31,666,667          | 33,390,678          | 35,114,689          | 30,963,910         |
| TOTAL CONSTRUCTION COST BEFORE CONTINGENCIES       |                  | 204,535,408               | 216,311,958         | 228,088,511         | 239,865,062         | 211,511,492        |
| Contingencies                                      |                  |                           |                     |                     |                     |                    |
| Design Contingencies                               | 10.0%            | 20,453,541                | 21,631,196          | 22,808,851          | 23,986,506          | 21,151,149         |
| Construction Contingencies                         | 15.0%            | 33,748,342                | 35,691,473          | 37,634,604          | 39,577,735          | 34,899,396         |
| Total Contingency Allowance                        |                  | 54,201,883                | 57,322,669          | 60,443,455          | 63,564,241          | 56,050,545         |
| TOTAL COST BEFORE ESCALATION                       |                  | 258,737,291               | 273,634,627         | 288,531,966         | 303,429,303         | 267,562,037        |
| Escalation to Mid-point of Construction            | <i>By Others</i> | 0%                        | -                   | -                   | -                   | -                  |
| RECOMMENDED CONSTRUCTION BUDGET                    |                  | 258,737,291               | 273,634,627         | 288,531,966         | 303,429,303         | 267,562,037        |
| Non-Contract Costs                                 | 17.0%            | 43,985,339                | 46,517,887          | 49,050,434          | 51,582,981          | 45,485,546         |
| TOTAL ESTIMATE                                     |                  | 302,722,630               | 320,152,513         | 337,582,400         | 355,012,284         | 313,047,583        |
| ESTIMATE DIFFERENCE                                |                  | -                         | 17,429,883          | 34,859,770          | 52,289,654          | 10,324,952         |
| ESTIMATE DIFFERENCE - Before Contingencies         |                  |                           | 11,776,550          | 23,553,103          | 35,329,654          | 6,976,084          |

Sites Reservoir  
 Sites Dam Contingency Estimates  
 Sites, CA

Cost Estimate  
 AACEI Class 3  
 February 27, 2025

| Construction Cost Estimate                         |           |                           |                    |                     |                    |                    |
|----------------------------------------------------|-----------|---------------------------|--------------------|---------------------|--------------------|--------------------|
|                                                    |           | 30% Design 15' Excavation | Grout Holes        | Consolidation Grout | Core Haul          | Core Slope         |
| <b>Total Direct Cost (\$)</b>                      |           | <b>138,500,995</b>        | <b>141,538,298</b> | <b>139,868,440</b>  | <b>142,641,754</b> | <b>144,031,077</b> |
| TOTAL DIRECT COST BEFORE CONTRACTOR INDIRECT COSTS |           | 138,500,995               | 141,538,298        | 139,868,440         | 142,641,754        | 144,031,077        |
| Mobilization                                       | 5.0%      | 6,925,050                 | 7,076,915          | 6,993,422           | 7,132,088          | 7,201,554          |
| Field Overhead Costs (GC&GR)                       | 17.0%     | 24,722,428                | 25,264,586         | 24,966,516          | 25,461,553         | 25,709,547         |
| Insurance                                          | 2.0%      | 3,402,969                 | 3,477,596          | 3,436,568           | 3,504,708          | 3,538,844          |
| Bonds                                              | 0.6%      | 1,041,309                 | 1,064,144          | 1,051,590           | 1,072,441          | 1,082,886          |
| Total Contractor Indirect Costs                    |           | 36,091,756                | 36,883,241         | 36,448,096          | 37,170,790         | 37,532,831         |
| TOTAL CONTACTOR COSTS                              |           | 174,592,751               | 178,421,539        | 176,316,536         | 179,812,544        | 181,563,908        |
| Home Office Overhead (G&A)                         | 6.5%      | 11,348,529                | 11,597,400         | 11,460,575          | 11,687,815         | 11,801,654         |
| GC Profit                                          | 10.0%     | 18,594,128                | 19,001,894         | 18,777,711          | 19,150,036         | 19,336,556         |
| Total Contractor Overhead and Profit               |           | 29,942,657                | 30,599,294         | 30,238,286          | 30,837,851         | 31,138,210         |
| TOTAL CONSTRUCTION COST BEFORE CONTINGENCIES       |           | 204,535,408               | 209,020,833        | 206,554,822         | 210,650,395        | 212,702,118        |
| Contingencies                                      |           |                           |                    |                     |                    |                    |
| Design Contingencies                               | 10.0%     | 20,453,541                | 20,902,083         | 20,655,482          | 21,065,039         | 21,270,212         |
| Construction Contingencies                         | 15.0%     | 33,748,342                | 34,488,437         | 34,081,546          | 34,757,315         | 35,095,850         |
| Total Contingency Allowance                        |           | 54,201,883                | 55,390,520         | 54,737,028          | 55,822,354         | 56,366,062         |
| TOTAL COST BEFORE ESCALATION                       |           | 258,737,291               | 264,411,353        | 261,291,850         | 266,472,749        | 269,068,180        |
| Escalation to Mid-point of Construction            | By Others | 0%                        | -                  | -                   | -                  | -                  |
| RECOMMENDED CONSTRUCTION BUDGET                    |           | 258,737,291               | 264,411,353        | 261,291,850         | 266,472,749        | 269,068,180        |
| Non-Contract Costs                                 | 17.0%     | 43,985,339                | 44,949,930         | 44,419,614          | 45,300,367         | 45,741,591         |
| TOTAL ESTIMATE                                     |           | 302,722,630               | 309,361,283        | 305,711,464         | 311,773,116        | 314,809,771        |
| ESTIMATE DIFFERENCE                                |           | -                         | 6,638,653          | 2,988,834           | 9,050,485          | 12,087,141         |
| ESTIMATE DIFFERENCE - Before Contingencies         |           |                           | 4,485,425          | 2,019,414           | 6,114,987          | 8,166,711          |

Sites Reservoir  
 Sites Dam Contingency Estimates  
 Sites, CA

Cost Estimate  
 AACEI Class 3  
 February 27, 2025

| Construction Cost Estimate                         |                     |                           |                    |                    |                      |                      |
|----------------------------------------------------|---------------------|---------------------------|--------------------|--------------------|----------------------|----------------------|
|                                                    |                     | 30% Design 15' Excavation | Embankment Slopes  | Overburden         | Borrow Quality - 25% | Borrow Quality - 35% |
| <b>Total Direct Cost (\$)</b>                      |                     | <b>138,500,995</b>        | <b>173,862,684</b> | <b>144,061,477</b> | <b>142,005,736</b>   | <b>145,510,477</b>   |
| TOTAL DIRECT COST BEFORE CONTRACTOR INDIRECT COSTS |                     | 138,500,995               | 173,862,684        | 144,061,477        | 142,005,736          | 145,510,477          |
| Mobilization                                       | 5.0%                | 6,925,050                 | 8,693,134          | 7,203,074          | 7,100,287            | 7,275,524            |
| Field Overhead Costs (GC&GR)                       | 17.0%               | 24,722,428                | 31,034,489         | 25,714,974         | 25,348,024           | 25,973,620           |
| Insurance                                          | 2.0%                | 3,402,969                 | 4,271,806          | 3,539,591          | 3,489,081            | 3,575,192            |
| Bonds                                              | 0.6%                | 1,041,309                 | 1,307,173          | 1,083,115          | 1,067,659            | 1,094,009            |
| Total Contractor Indirect Costs                    |                     | 36,091,756                | 45,306,602         | 37,540,754         | 37,005,051           | 37,918,345           |
| TOTAL CONTRACTOR COSTS                             |                     | 174,592,751               | 219,169,286        | 181,602,231        | 179,010,787          | 183,428,822          |
| Home Office Overhead (G&A)                         | 6.5%                | 11,348,529                | 14,246,004         | 11,804,145         | 11,635,701           | 11,922,873           |
| GC Profit                                          | 10.0%               | 18,594,128                | 23,341,529         | 19,340,638         | 19,064,649           | 19,535,170           |
| Total Contractor Overhead and Profit               |                     | 29,942,657                | 37,587,533         | 31,144,783         | 30,700,350           | 31,458,043           |
| TOTAL CONSTRUCTION COST BEFORE CONTINGENCIES       |                     | 204,535,408               | 256,756,819        | 212,747,014        | 209,711,137          | 214,886,865          |
| Contingencies                                      |                     |                           |                    |                    |                      |                      |
| Design Contingencies                               | 10.0%               | 20,453,541                | 25,675,682         | 21,274,701         | 20,971,114           | 21,488,687           |
| Construction Contingencies                         | 15.0%               | 33,748,342                | 42,364,875         | 35,103,257         | 34,602,338           | 35,456,333           |
| Total Contingency Allowance                        |                     | 54,201,883                | 68,040,557         | 56,377,958         | 55,573,452           | 56,945,020           |
| TOTAL COST BEFORE ESCALATION                       |                     | 258,737,291               | 324,797,376        | 269,124,972        | 265,284,589          | 271,831,885          |
| Escalation to Mid-point of Construction            | <i>By Others</i> 0% | -                         | -                  | -                  | -                    | -                    |
| RECOMMENDED CONSTRUCTION BUDGET                    |                     | 258,737,291               | 324,797,376        | 269,124,972        | 265,284,589          | 271,831,885          |
| Non-Contract Costs                                 | 17.0%               | 43,985,339                | 55,215,554         | 45,751,245         | 45,098,380           | 46,211,420           |
| TOTAL ESTIMATE                                     |                     | 302,722,630               | 380,012,929        | 314,876,217        | 310,382,969          | 318,043,306          |
| ESTIMATE DIFFERENCE                                |                     | -                         | 77,290,299         | 12,153,587         | 7,660,339            | 15,320,675           |
| ESTIMATE DIFFERENCE - Before Contingencies         |                     |                           | 52,221,411         | 8,211,606          | 5,175,729            | 10,351,457           |

Sites Reservoir  
 Sites Dam Contingency Estimates  
 Sites, CA

Cost Estimate  
 AACEI Class 3  
 February 27, 2025

| Construction Cost Estimate                         |                     |                           |                    |                     |                    |
|----------------------------------------------------|---------------------|---------------------------|--------------------|---------------------|--------------------|
|                                                    |                     | 30% Design 15' Excavation | F&D +25%           | Transitions Offsite | Transitions +25%   |
| <b>Total Direct Cost (\$)</b>                      |                     | <b>138,500,995</b>        | <b>143,817,475</b> | <b>157,349,092</b>  | <b>142,569,772</b> |
| TOTAL DIRECT COST BEFORE CONTRACTOR INDIRECT COSTS |                     | 138,500,995               | 143,817,475        | 157,349,092         | 142,569,772        |
| Mobilization                                       | 5.0%                | 6,925,050                 | 7,190,874          | 7,867,455           | 7,128,489          |
| Field Overhead Costs (GC&GR)                       | 17.0%               | 24,722,428                | 25,671,419         | 28,086,813          | 25,448,704         |
| Insurance                                          | 2.0%                | 3,402,969                 | 3,533,595          | 3,866,067           | 3,502,939          |
| Bonds                                              | 0.6%                | 1,041,309                 | 1,081,280          | 1,183,017           | 1,071,899          |
| Total Contractor Indirect Costs                    |                     | 36,091,756                | 37,477,168         | 41,003,352          | 37,152,031         |
| TOTAL CONTACTOR COSTS                              |                     | 174,592,751               | 181,294,643        | 198,352,444         | 179,721,803        |
| Home Office Overhead (G&A)                         | 6.5%                | 11,348,529                | 11,784,152         | 12,892,909          | 11,681,917         |
| GC Profit                                          | 10.0%               | 18,594,128                | 19,307,880         | 21,124,535          | 19,140,372         |
| Total Contractor Overhead and Profit               |                     | 29,942,657                | 31,092,032         | 34,017,444          | 30,822,289         |
| TOTAL CONSTRUCTION COST BEFORE CONTINGENCIES       |                     | 204,535,408               | 212,386,675        | 232,369,888         | 210,544,092        |
| Contingencies                                      |                     |                           |                    |                     |                    |
| Design Contingencies                               | 10.0%               | 20,453,541                | 21,238,668         | 23,236,989          | 21,054,409         |
| Construction Contingencies                         | 15.0%               | 33,748,342                | 35,043,802         | 38,341,032          | 34,739,775         |
| Total Contingency Allowance                        |                     | 54,201,883                | 56,282,470         | 61,578,021          | 55,794,184         |
| TOTAL COST BEFORE ESCALATION                       |                     | 258,737,291               | 268,669,145        | 293,947,909         | 266,338,276        |
| Escalation to Mid-point of Construction            | <i>By Others</i> 0% | -                         | -                  | -                   | -                  |
| RECOMMENDED CONSTRUCTION BUDGET                    |                     | 258,737,291               | 268,669,145        | 293,947,909         | 266,338,276        |
| Non-Contract Costs                                 | 17.0%               | 43,985,339                | 45,673,755         | 49,971,145          | 45,277,507         |
| TOTAL ESTIMATE                                     |                     | 302,722,630               | 314,342,900        | 343,919,054         | 311,615,783        |
| ESTIMATE DIFFERENCE                                |                     | -                         | 11,620,270         | 41,196,424          | 8,893,153          |
| ESTIMATE DIFFERENCE - Before Contingencies         |                     |                           | 7,851,268          | 27,834,481          | 6,008,684          |

DIRECT COST LEVEL 2 SUMMARY

| 30% Cost Estimate |          |                                                         |        |           |            | 1A - 20' Excavation |      |           |            |               |      | 1B - 25' Excavation |            |               |      |           |            | 1C - 30' Excavation |      |           |            |               |      |
|-------------------|----------|---------------------------------------------------------|--------|-----------|------------|---------------------|------|-----------|------------|---------------|------|---------------------|------------|---------------|------|-----------|------------|---------------------|------|-----------|------------|---------------|------|
| Item              | Sub Item | Description                                             | UoM    | Qty       | Unit Rate  | Total               | ADJ  | Qty       | Unit Rate  | Total         | ADJ  | Qty                 | Unit Rate  | Total         | ADJ  | Qty       | Unit Rate  | Total               | ADJ  | Qty       | Unit Rate  | Total         | ADJ  |
| 01                | 01.00.00 | PRECONSTRUCTION ACTIVITIES                              |        |           |            | 3,698,373.21        |      |           |            | 3,698,373.21  |      |                     |            | 3,698,373.21  |      |           |            | 3,698,373.21        |      |           |            | 3,698,373.21  |      |
|                   | 01.01.00 | Demolition Work                                         | LS     | -         | -          | Elsewhere           |      |           |            |               |      |                     |            |               |      |           |            |                     |      |           |            |               |      |
|                   | 01.02.00 | Clearing and Grubbing                                   | ACRE   | 27        | 10,250.26  | 276,757.01          | 100% | 27        | 10,250.26  | 276,757.01    | 100% | 27                  | 10,250.26  | 276,757.01    | 100% | 27        | 10,250.26  | 276,757.01          | 100% | 27        | 10,250.26  | 276,757.01    | 100% |
|                   | 01.03.00 | Reservoir Clearing                                      | ACRE   | -         | -          | -                   | 100% | -         | -          | -             | 100% | -                   | -          | -             | 100% | -         | -          | -                   | 100% | -         | -          | -             | 100% |
|                   | 01.04.00 | Erosion and Sediment Control                            | ACRE   | 27        | 108,235.91 | 2,922,369.57        | 100% | 27        | 108,235.91 | 2,922,369.57  | 100% | 27                  | 108,235.91 | 2,922,369.57  | 100% | 27        | 108,235.91 | 2,922,369.57        | 100% | 27        | 108,235.91 | 2,922,369.57  | 100% |
|                   | 01.05.00 | Developing haul routes - Haul routes inside reservoir   | ACRES  | 22        | 11,150.62  | 245,313.55          | 100% | 22        | 11,150.62  | 245,313.55    | 100% | 22                  | 11,150.62  | 245,313.55    | 100% | 22        | 11,150.62  | 245,313.55          | 100% | 22        | 11,150.62  | 245,313.55    | 100% |
|                   | 01.06.00 | Developing haul routes - Haul routes outside reservoir  | ACRES  | 15        | 11,150.62  | 167,259.24          | 100% | 15        | 11,150.62  | 167,259.24    | 100% | 15                  | 11,150.62  | 167,259.24    | 100% | 15        | 11,150.62  | 167,259.24          | 100% | 15        | 11,150.62  | 167,259.24    | 100% |
|                   | 01.07.00 | Developing Stockpile and Staging Areas                  | ACRES  | 5         | 17,334.77  | 86,673.85           | 100% | 5         | 17,334.77  | 86,673.85     | 100% | 5                   | 17,334.77  | 86,673.85     | 100% | 5         | 17,334.77  | 86,673.85           | 100% | 5         | 17,334.77  | 86,673.85     | 100% |
| 02                | 02.00.00 | COFFERDAM                                               |        |           |            | 5,981,191.05        |      |           |            | 6,579,310.16  |      |                     |            | 7,177,429.26  |      |           |            | 7,775,548.37        |      |           |            | 8,373,667.48  |      |
|                   | 02.01.00 | Cofferdam Excavation                                    | BCY    | 189,100   | 15.99      | 3,024,380.94        | 110% | 208,010   | 15.99      | 3,326,819.04  | 120% | 226,920             | 15.99      | 3,629,257.13  | 130% | 245,830   | 15.99      | 3,931,695.23        | 140% | 264,740   | 15.99      | 4,234,133.33  | 150% |
|                   | 02.02.00 | Cofferdam - Zone 6                                      | ECY    | 48,600    | 12.01      | 583,736.15          | 110% | 53,460    | 12.01      | 642,109.77    | 120% | 58,320              | 12.01      | 700,483.38    | 130% | 63,180    | 12.01      | 758,857.00          | 140% | 68,040    | 12.01      | 817,230.61    | 150% |
|                   | 02.03.00 | Cofferdam - Zone 9                                      | ECY    | 94,100    | 13.42      | 1,263,073.96        | 110% | 103,510   | 13.42      | 1,389,381.35  | 120% | 112,920             | 13.42      | 1,515,688.75  | 130% | 122,330   | 13.42      | 1,641,996.14        | 140% | 131,740   | 13.42      | 1,768,303.54  | 150% |
|                   | 02.04.00 | Cofferdam - Cutoff Wall                                 | SF     | 24,000    | 40.00      | 960,000.00          | 110% | 26,400    | 40.00      | 1,056,000.00  | 120% | 28,800              | 40.00      | 1,152,000.00  | 130% | 31,200    | 40.00      | 1,248,000.00        | 140% | 33,600    | 40.00      | 1,344,000.00  | 150% |
|                   | 02.05.00 | Cofferdam - Dewatering Allowance                        | LS     | 1         | 150,000.00 | 150,000.00          | 110% | 1         | 150,000.00 | 165,000.00    | 120% | 1                   | 150,000.00 | 180,000.00    | 130% | 1         | 150,000.00 | 195,000.00          | 140% | 1         | 150,000.00 | 210,000.00    | 150% |
| 04                | 04.00.00 | FOUNDATION EXCAVATION                                   |        |           |            | 6,790,031.25        |      |           |            | 9,053,375.00  |      |                     |            | 11,316,718.75 |      |           |            | 13,580,062.50       |      |           |            | 15,843,406.25 |      |
|                   | 04.01.00 | Topsoil Salvage                                         | BCY    | 58,000    | 6.11       | 354,478.21          | 133% | 77,333    | 6.11       | 472,637.62    | 167% | 96,667              | 6.11       | 590,797.02    | 200% | 116,000   | 6.11       | 708,956.43          | 233% | 135,333   | 6.11       | 837,115.84    | 267% |
|                   | 04.02.00 | Drill and Shoot Foundation                              | BCY    | 41,700    | 14.86      | 619,756.66          | 133% | 55,600    | 14.86      | 826,342.21    | 167% | 69,500              | 14.86      | 1,032,927.76  | 200% | 83,400    | 14.86      | 1,239,513.31        | 233% | 97,300    | 14.86      | 1,446,300.86  | 267% |
|                   | 04.03.00 | Dam Foundation Excavation                               | BCY    | 417,000   | 11.64      | 4,855,796.38        | 133% | 556,000   | 11.64      | 6,474,395.17  | 167% | 695,000             | 11.64      | 8,092,993.97  | 200% | 834,000   | 11.64      | 9,711,592.76        | 233% | 973,000   | 11.64      | 11,330,191.55 | 267% |
|                   | 04.05.00 | Dewatering allowance                                    | Months | 12        | 80,000.00  | 960,000.00          | 133% | 16        | 80,000.00  | 1,280,000.00  | 167% | 20                  | 80,000.00  | 1,600,000.00  | 200% | 24        | 80,000.00  | 1,920,000.00        | 233% | 28        | 80,000.00  | 2,240,000.00  | 267% |
| 05                | 05.00.00 | FOUNDATION PREPARATION - BENEATH CORE                   |        |           |            | 3,815,442.65        |      |           |            | 4,006,214.78  |      |                     |            | 4,196,986.91  |      |           |            | 4,387,759.05        |      |           |            | 4,578,531.18  |      |
|                   | 05.01.00 | Initial Foundation Cleaning - Core                      | SY     | 9,500     | 26.63      | 252,991.37          | 105% | 9,975     | 26.63      | 265,640.94    | 110% | 10,450              | 26.63      | 278,290.51    | 115% | 10,925    | 26.63      | 290,940.07          | 120% | 11,400    | 26.63      | 303,590.64    | 125% |
|                   | 05.02.00 | Final Foundation Cleaning - Core                        | SY     | 9,500     | 35.10      | 333,488.62          | 105% | 9,975     | 35.10      | 350,163.05    | 110% | 10,450              | 35.10      | 366,837.48    | 115% | 10,925    | 35.10      | 383,511.92          | 120% | 11,400    | 35.10      | 400,186.35    | 125% |
|                   | 05.03.00 | Dental Excavation                                       | CY     | 2,900     | 26.60      | 77,144.38           | 105% | 3,045     | 26.60      | 81,001.60     | 110% | 3,190               | 26.60      | 84,858.82     | 115% | 3,335     | 26.60      | 88,716.04           | 120% | 3,480     | 26.60      | 92,573.26     | 125% |
|                   | 05.04.00 | Dental Concrete                                         | CY     | 2,900     | 529.67     | 1,536,052.63        | 105% | 3,045     | 529.67     | 1,612,855.26  | 110% | 3,190               | 529.67     | 1,689,657.90  | 115% | 3,335     | 529.67     | 1,766,460.53        | 120% | 3,480     | 529.67     | 1,843,263.16  | 125% |
|                   | 05.05.00 | Backfill Concrete                                       | CY     | 2,150     | 408.03     | 877,271.53          | 105% | 2,258     | 408.03     | 921,135.10    | 110% | 2,365               | 408.03     | 964,998.68    | 115% | 2,473     | 408.03     | 1,008,862.26        | 120% | 2,580     | 408.03     | 1,052,724.84  | 125% |
|                   | 05.06.00 | Shaping Excavations                                     | CY     | 200       | 48.22      | 9,643.05            | 105% | 210       | 48.22      | 10,125.20     | 110% | 220                 | 48.22      | 10,607.35     | 115% | 230       | 48.22      | 11,089.50           | 120% | 240       | 48.22      | 11,571.65     | 125% |
|                   | 05.07.00 | Slush Grout                                             | Sacks  | 2,850     | 255.74     | 728,851.07          | 105% | 2,993     | 255.74     | 765,293.63    | 110% | 3,135               | 255.74     | 801,736.18    | 115% | 3,278     | 255.74     | 838,178.73          | 120% | 3,420     | 255.74     | 874,621.28    | 125% |
| 06                | 06.00.00 | GROUTING                                                |        |           |            | 23,732,859.84       |      |           |            | 23,732,859.84 |      |                     |            | 23,732,859.84 |      |           |            | 23,732,859.84       |      |           |            | 23,732,859.84 |      |
|                   | 06.01.00 | Grout Cap                                               | CY     | 2,950     | 1,729.72   | 5,102,668.68        | 100% | 2,950     | 1,729.72   | 5,102,668.68  | 100% | 2,950               | 1,729.72   | 5,102,668.68  | 100% | 2,950     | 1,729.72   | 5,102,668.68        | 100% | 2,950     | 1,729.72   | 5,102,668.68  | 100% |
|                   | 06.02.00 | Grout Cap Anchors                                       | LF     | 2,040     | 180.29     | 367,801.57          | 100% | 2,040     | 180.29     | 367,801.57    | 100% | 2,040               | 180.29     | 367,801.57    | 100% | 2,040     | 180.29     | 367,801.57          | 100% | 2,040     | 180.29     | 367,801.57    | 100% |
|                   | 06.03.00 | Grout Cut Off Wall                                      | CY     | -         | -          | -                   | 100% | -         | -          | -             | 100% | -                   | -          | -             | 100% | -         | -          | -                   | 100% | -         | -          | -             | 100% |
|                   | 06.04.00 | Curtain Grouting - Includes Stich and Fans              | LF     | 79,700    | 224.21     | 17,869,615.00       | 100% | 79,700    | 224.21     | 17,869,615.00 | 100% | 79,700              | 224.21     | 17,869,615.00 | 100% | 79,700    | 224.21     | 17,869,615.00       | 100% | 79,700    | 224.21     | 17,869,615.00 | 100% |
|                   | 06.05.00 | Consolidation Grouting                                  | LF     | -         | -          | -                   | 100% | -         | -          | -             | 100% | -                   | -          | -             | 100% | -         | -          | -                   | 100% | -         | -          | -             | 100% |
|                   | 06.06.00 | Type III Cement                                         | Tons   | 1,428     | 275.00     | 392,774.59          | 100% | 1,428     | 275.00     | 392,774.59    | 100% | 1,428               | 275.00     | 392,774.59    | 100% | 1,428     | 275.00     | 392,774.59          | 100% | 1,428     | 275.00     | 392,774.59    | 100% |
| 07                | 07.00.00 | FOUNDATION PREPARATION - BENEATH SHELL                  |        |           |            | 385,745.78          |      |           |            | 405,033.07    |      |                     |            | 424,320.36    |      |           |            | 443,607.65          |      |           |            | 462,894.94    |      |
|                   | 07.01.00 | Foundation Cleaning - Shell                             | SY     | 94,000    | 4.10       | 385,745.78          | 105% | 98,700    | 4.10       | 405,033.07    | 110% | 103,400             | 4.10       | 424,320.36    | 115% | 108,100   | 4.10       | 443,607.65          | 120% | 112,800   | 4.10       | 462,894.94    | 125% |
| 08                | 08.00.00 | FOUNDATION DRAINAGE                                     |        |           |            | 179,397.77          |      |           |            | 179,397.77    |      |                     |            | 179,397.77    |      |           |            | 179,397.77          |      |           |            | 179,397.77    |      |
|                   | 08.01.00 | Furnish and Install Foundation Drain Pipe               | LF     | 350       | 277.94     | 97,279.82           | 100% | 350       | 277.94     | 97,279.82     | 100% | 350                 | 277.94     | 97,279.82     | 100% | 350       | 277.94     | 97,279.82           | 100% | 350       | 277.94     | 97,279.82     | 100% |
|                   | 08.02.00 | Furnish and Install Foundation Drain Manholes           | EA     | 2         | 20,529.49  | 41,058.98           | 100% | 2         | 20,529.49  | 41,058.98     | 100% | 2                   | 20,529.49  | 41,058.98     | 100% | 2         | 20,529.49  | 41,058.98           | 100% | 2         | 20,529.49  | 41,058.98     | 100% |
|                   | 08.03.00 | Furnish and Install Inspection Well                     | EA     | 2         | 20,529.49  | 41,058.98           | 100% | 2         | 20,529.49  | 41,058.98     | 100% | 2                   | 20,529.49  | 41,058.98     | 100% | 2         | 20,529.49  | 41,058.98           | 100% | 2         | 20,529.49  | 41,058.98     | 100% |
| 09                | 09.00.00 | ROCK BORROW AREA - DEVELOP, PROCESSING, AND RESTORATION |        |           |            | 32,582,141.68       |      |           |            | 34,327,792.96 |      |                     |            | 36,073,444.25 |      |           |            | 37,819,095.53       |      |           |            | 39,564,746.81 |      |
|                   | 09.01.00 | Strip/Overburden/Waste to Stockpile                     | BCY    | 589,900   | 8.98       | 5,295,697.41        | 105% | 621,505   | 8.98       | 5,579,424.65  | 111% | 653,110             | 8.98       | 5,863,151.89  | 116% | 684,715   | 8.98       | 6,146,879.12        | 121% | 716,320   | 8.98       | 6,430,606.36  | 126% |
|                   | 09.02.00 | Drill, Blast, Excavate to Crusher and Riprap Process    | BCY    | 1,922,299 | 6.82       | 13,117,982.99       | 105% | 2,025,290 | 6.82       | 13,820,804.31 | 111% | 2,128,281           | 6.82       | 14,523,625.64 | 116% | 2,231,272 | 6.82       | 15,226,446.96       | 121% | 2,334,263 | 6.82       | 15,929,268.28 | 126% |
|                   | 09.03.00 | Zone 4A, 4B, Zone 7A Processing                         | ECY    | 160,700   | 32.00      | 5,142,400.00        | 105% | 169,310   | 32.00      | 5,417,914.03  | 111% | 177,920             | 32.00      | 5,693,428.06  | 116% | 18        |            |                     |      |           |            |               |      |

DIRECT COST LEVEL 2 SUMMARY

|                   |          |                                                                                                                                                |     | 30% Cost Estimate |            |              | 1A - 20' Excavation |              |              | 1B - 25' Excavation |              |              | 1C - 30' Excavation |              |              |
|-------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------|------------|--------------|---------------------|--------------|--------------|---------------------|--------------|--------------|---------------------|--------------|--------------|
| Item              | Sub Item | Description                                                                                                                                    | UoM | Qty               | Unit Rate  | Total        | Qty                 | Unit Rate    | Total        | Qty                 | Unit Rate    | Total        | Qty                 | Unit Rate    | Total        |
| 11                | 11.00.00 | INSTRUMENTATION AND TELEMETRY                                                                                                                  |     |                   |            | 1,349,500.00 |                     | -            | 1,349,500.00 |                     |              | 1,349,500.00 |                     |              | 1,349,500.00 |
|                   | 11.01.00 | Instrumentation/Telemetry: Instrumentation/Telemetry (piezometers, settlement monitors (survey monuments), seismographs, and slope indicators) | LS  | 1                 | #####      | 1,349,500.00 | 1                   | 1,349,500.00 | 1,349,500.00 | 1                   | 1,349,500.00 | 1,349,500.00 | 1                   | 1,349,500.00 | 1,349,500.00 |
| 12                | 12.00.00 | SITE RESTORATION                                                                                                                               |     |                   |            | 1,548,341.55 |                     | -            | 1,548,341.55 |                     |              | 1,548,341.55 |                     |              | 1,548,341.55 |
|                   | 12.01.00 | Seeding                                                                                                                                        | SF  | 240,000           | 0.43       | 103,341.55   | 240,000             | 0.43         | 103,341.55   | 240,000             | 0.43         | 103,341.55   | 240,000             | 0.43         | 103,341.55   |
|                   | 12.02.00 | Fencing                                                                                                                                        | LF  | 600               | 75.00      | 45,000.00    | 600                 | 75.00        | 45,000.00    | 600                 | 75.00        | 45,000.00    | 600                 | 75.00        | 45,000.00    |
|                   | 12.03.00 | Best Management Practices                                                                                                                      | LS  | 1                 | 800,000.00 | 800,000.00   | 1                   | 800,000.00   | 800,000.00   | 1                   | 800,000.00   | 800,000.00   | 1                   | 800,000.00   | 800,000.00   |
|                   | 12.04.00 | Rock Check Dams                                                                                                                                | LS  | 1                 | 300,000.00 | 300,000.00   | 1                   | 300,000.00   | 300,000.00   | 1                   | 300,000.00   | 300,000.00   | 1                   | 300,000.00   | 300,000.00   |
|                   | 12.05.00 | Drainage - Inlets, Culverts                                                                                                                    | LS  | 1                 | 300,000.00 | 300,000.00   | 1                   | 300,000.00   | 300,000.00   | 1                   | 300,000.00   | 300,000.00   | 1                   | 300,000.00   | 300,000.00   |
| 15                | 15.00.00 | ALLOWANCE FOR UNLISTED ITEMS                                                                                                                   |     |                   |            | 6,595,285.47 |                     | -            | 6,975,022.75 |                     |              | 7,354,760.04 |                     |              | 7,734,497.32 |
|                   | 15.01.00 | Allowance for Unlisted Items                                                                                                                   | %   |                   | 5%         | 6,595,285.47 |                     | 5%           | 6,975,022.75 |                     | 5%           | 7,354,760.04 |                     | 5%           | 7,734,497.32 |
| Total Direct Cost |          |                                                                                                                                                |     |                   |            | 138,500,995  |                     |              | 146,475,478  |                     |              | 154,449,961  |                     |              | 162,424,444  |

DIRECT COST LEVEL 2 SUMMARY

|      |          |                                                         |        | 30% Cost Estimate |            |               | ADJ  | 300k CY Landslide |               |               | ADJ  | Grout Holes   |            |               | ADJ           | Consolidation Grout |            |               | ADJ  |
|------|----------|---------------------------------------------------------|--------|-------------------|------------|---------------|------|-------------------|---------------|---------------|------|---------------|------------|---------------|---------------|---------------------|------------|---------------|------|
| Item | Sub Item | Description                                             | UoM    | Qty               | Unit Rate  | Total         |      | Qty               | Unit Rate     | Total         |      | Qty           | Unit Rate  | Total         |               | Qty                 | Unit Rate  | Total         |      |
| 01   | 01.00.00 | PRECONSTRUCTION ACTIVITIES                              |        |                   |            | 3,698,373.21  |      |                   | 3,698,373.21  |               |      | 3,698,373.21  |            |               | 3,698,373.21  |                     |            | 3,698,373.21  |      |
|      | 01.01.00 | Demolition Work                                         | LS     | -                 | -          | -             |      |                   | -             |               |      | -             |            |               | -             |                     |            | -             |      |
|      | 01.02.00 | Clearing and Grubbing                                   | ACRE   | 27                | 10,250.26  | 276,757.01    | 100% | 27                | 10,250.26     | 276,757.01    | 100% | 27            | 10,250.26  | 276,757.01    | 100%          | 27                  | 10,250.26  | 276,757.01    | 100% |
|      | 01.03.00 | Reservoir Clearing                                      | ACRE   | -                 | -          | -             |      |                   | -             |               |      | -             |            |               | -             |                     |            | -             |      |
|      | 01.04.00 | Erosion and Sediment Control                            | ACRE   | 27                | 108,235.91 | 2,922,369.57  | 100% | 27                | 108,235.91    | 2,922,369.57  | 100% | 27            | 108,235.91 | 2,922,369.57  | 100%          | 27                  | 108,235.91 | 2,922,369.57  | 100% |
|      | 01.05.00 | Developing haul routes - Haul routes inside reservoir   | ACRES  | 22                | 11,150.62  | 245,313.55    | 100% | 22                | 11,150.62     | 245,313.55    | 100% | 22            | 11,150.62  | 245,313.55    | 100%          | 22                  | 11,150.62  | 245,313.55    | 100% |
|      | 01.06.00 | Developing haul routes - Haul routes outside reservoir  | ACRES  | 15                | 11,150.62  | 167,259.24    | 100% | 15                | 11,150.62     | 167,259.24    | 100% | 15            | 11,150.62  | 167,259.24    | 100%          | 15                  | 11,150.62  | 167,259.24    | 100% |
|      | 01.07.00 | Developing Stockpile and Staging Areas                  | ACRES  | 5                 | 17,334.77  | 86,673.85     | 100% | 5                 | 17,334.77     | 86,673.85     | 100% | 5             | 17,334.77  | 86,673.85     | 100%          | 5                   | 17,334.77  | 86,673.85     | 100% |
| 02   | 02.00.00 | COFFERDAM                                               |        |                   |            | 5,981,191.05  |      |                   | 5,981,191.05  |               |      | 5,981,191.05  |            |               | 5,981,191.05  |                     |            | 5,981,191.05  |      |
|      | 02.01.00 | Cofferdam Excavation                                    | BCY    | 189,100           | 15.99      | 3,024,380.94  | 100% | 189,100           | 15.99         | 3,024,380.94  | 100% | 189,100       | 15.99      | 3,024,380.94  | 100%          | 189,100             | 15.99      | 3,024,380.94  | 100% |
|      | 02.02.00 | Cofferdam - Zone 6                                      | ECY    | 48,600            | 12.01      | 583,736.15    | 100% | 48,600            | 12.01         | 583,736.15    | 100% | 48,600        | 12.01      | 583,736.15    | 100%          | 48,600              | 12.01      | 583,736.15    | 100% |
|      | 02.03.00 | Cofferdam - Zone 9                                      | ECY    | 94,100            | 13.42      | 1,263,073.96  | 100% | 94,100            | 13.42         | 1,263,073.96  | 100% | 94,100        | 13.42      | 1,263,073.96  | 100%          | 94,100              | 13.42      | 1,263,073.96  | 100% |
|      | 02.04.00 | Cofferdam - Cutoff Wall                                 | SF     | 24,000            | 40.00      | 960,000.00    | 100% | 24,000            | 40.00         | 960,000.00    | 100% | 24,000        | 40.00      | 960,000.00    | 100%          | 24,000              | 40.00      | 960,000.00    | 100% |
|      | 02.05.00 | Cofferdam - Dewatering Allowance                        | LS     | 1                 | 150,000.00 | 150,000.00    | 100% | 1                 | 150,000.00    | 150,000.00    | 100% | 1             | 150,000.00 | 150,000.00    | 100%          | 1                   | 150,000.00 | 150,000.00    | 100% |
| 04   | 04.00.00 | FOUNDATION EXCAVATION                                   |        |                   |            | 6,790,031.25  |      |                   | 6,790,031.25  |               |      | 6,790,031.25  |            |               | 6,790,031.25  |                     |            | 6,790,031.25  |      |
|      | 04.01.00 | Topsoil Salvage                                         | BCY    | 58,000            | 6.11       | 354,478.21    | 100% | 58,000            | 6.11          | 354,478.21    | 100% | 58,000        | 6.11       | 354,478.21    | 100%          | 58,000              | 6.11       | 354,478.21    | 100% |
|      | 04.02.00 | Drill and Shoot Foundation                              | BCY    | 41,700            | 14.86      | 619,756.66    | 119% | 49,766            | 14.86         | 739,632.22    | 119% | 41,700        | 14.86      | 619,756.66    | 107%          | 41,700              | 14.86      | 619,756.66    | 107% |
|      | 04.03.00 | Dam Foundation Excavation                               | BCY    | 417,000           | 11.64      | 4,855,796.38  | 119% | 497,658           | 11.64         | 5,795,021.98  | 119% | 417,000       | 11.64      | 4,855,796.38  | 107%          | 417,000             | 11.64      | 4,855,796.38  | 107% |
|      | 04.05.00 | Dewatering allowance                                    | Months | 12                | 80,000.00  | 960,000.00    | 119% | 14                | 80,000.00     | 1,145,686.65  | 119% | 12            | 80,000.00  | 960,000.00    | 107%          | 12                  | 80,000.00  | 960,000.00    | 107% |
| 05   | 05.00.00 | FOUNDATION PREPARATION - BENEATH CORE                   |        |                   |            | 3,815,442.65  |      |                   | 3,815,442.65  |               |      | 3,815,442.65  |            |               | 3,815,442.65  |                     |            | 3,815,442.65  |      |
|      | 05.01.00 | Initial Foundation Cleaning - Core                      | SY     | 9,500             | 26.63      | 252,991.37    | 100% | 9,500             | 26.63         | 252,991.37    | 100% | 9,500         | 26.63      | 252,991.37    | 100%          | 9,500               | 26.63      | 252,991.37    | 100% |
|      | 05.02.00 | Final Foundation Cleaning - Core                        | SY     | 9,500             | 35.10      | 333,488.62    | 100% | 9,500             | 35.10         | 333,488.62    | 100% | 9,500         | 35.10      | 333,488.62    | 100%          | 9,500               | 35.10      | 333,488.62    | 100% |
|      | 05.03.00 | Dental Excavation                                       | CY     | 2,900             | 26.60      | 77,144.38     | 100% | 2,900             | 26.60         | 77,144.38     | 100% | 2,900         | 26.60      | 77,144.38     | 100%          | 2,900               | 26.60      | 77,144.38     | 100% |
|      | 05.04.00 | Dental Concrete                                         | CY     | 2,900             | 529.67     | 1,536,052.63  | 100% | 2,900             | 529.67        | 1,536,052.63  | 100% | 2,900         | 529.67     | 1,536,052.63  | 100%          | 2,900               | 529.67     | 1,536,052.63  | 100% |
|      | 05.05.00 | Backfill Concrete                                       | CY     | 2,150             | 408.03     | 877,271.53    | 100% | 2,150             | 408.03        | 877,271.53    | 100% | 2,150         | 408.03     | 877,271.53    | 100%          | 2,150               | 408.03     | 877,271.53    | 100% |
|      | 05.06.00 | Shaping Excavations                                     | CY     | 200               | 48.22      | 9,643.05      | 100% | 200               | 48.22         | 9,643.05      | 100% | 200           | 48.22      | 9,643.05      | 100%          | 200                 | 48.22      | 9,643.05      | 100% |
|      | 05.07.00 | Slush Grout                                             | Sacks  | 2,850             | 255.74     | 728,851.07    | 100% | 2,850             | 255.74        | 728,851.07    | 100% | 2,850         | 255.74     | 728,851.07    | 100%          | 2,850               | 255.74     | 728,851.07    | 100% |
| 06   | 06.00.00 | GROUTING                                                |        |                   |            | 23,732,859.84 |      |                   | 23,732,859.84 |               |      | 26,625,529.79 |            |               | 26,625,529.79 |                     |            | 25,035,188.26 |      |
|      | 06.01.00 | Grout Cap                                               | CY     | 2,950             | 1,729.72   | 5,102,668.68  | 100% | 2,950             | 1,729.72      | 5,102,668.68  | 100% | 2,950         | 1,729.72   | 5,102,668.68  | 100%          | 2,950               | 1,729.72   | 5,102,668.68  | 100% |
|      | 06.02.00 | Grout Cap Anchors                                       | LF     | 2,040             | 180.29     | 367,801.57    | 100% | 2,040             | 180.29        | 367,801.57    | 100% | 2,040         | 180.29     | 367,801.57    | 100%          | 2,040               | 180.29     | 367,801.57    | 100% |
|      | 06.03.00 | Grout Cut Off Wall                                      | CY     | -                 | -          | -             | 100% | -                 | -             | -             | 100% | -             | -          | -             | 100%          | -                   | -          | -             | 100% |
|      | 06.04.00 | Curtain Grouting - Includes Stich and Fans              | LF     | 79,700            | 224.21     | 17,869,615.00 | 100% | 79,700            | 224.21        | 17,869,615.00 | 116% | 92,324        | 224.21     | 20,700,071.44 | 116%          | 85,384              | 224.21     | 19,143,933.85 | 107% |
|      | 06.05.00 | Consolidation Grouting                                  | LF     | -                 | -          | -             | 100% | -                 | -             | -             | 116% | -             | -          | -             | 107%          | -                   | -          | -             | 107% |
|      | 06.06.00 | Type III Cement                                         | Tons   | 1,428             | 275.00     | 392,774.59    | 100% | 1,428             | 275.00        | 392,774.59    | 116% | 1,655         | 275.00     | 454,988.10    | 116%          | 1,530               | 275.00     | 420,784.15    | 107% |
| 07   | 07.00.00 | FOUNDATION PREPARATION - BENEATH SHELL                  |        |                   |            | 385,745.78    |      |                   | 385,745.78    |               |      | 385,745.78    |            |               | 385,745.78    |                     |            | 385,745.78    |      |
|      | 07.01.00 | Foundation Cleaning - Shell                             | SY     | 94,000            | 4.10       | 385,745.78    | 100% | 94,000            | 4.10          | 385,745.78    | 100% | 94,000        | 4.10       | 385,745.78    | 100%          | 94,000              | 4.10       | 385,745.78    | 100% |
| 08   | 08.00.00 | FOUNDATION DRAINAGE                                     |        |                   |            | 179,397.77    |      |                   | 179,397.77    |               |      | 179,397.77    |            |               | 179,397.77    |                     |            | 179,397.77    |      |
|      | 08.01.00 | Furnish and Install Foundation Drain Pipe               | LF     | 350               | 277.94     | 97,279.82     | 100% | 350               | 277.94        | 97,279.82     | 100% | 350           | 277.94     | 97,279.82     | 100%          | 350                 | 277.94     | 97,279.82     | 100% |
|      | 08.02.00 | Furnish and Install Foundation Drain Manholes           | EA     | 2                 | 20,529.49  | 41,058.98     | 100% | 2                 | 20,529.49     | 41,058.98     | 100% | 2             | 20,529.49  | 41,058.98     | 100%          | 2                   | 20,529.49  | 41,058.98     | 100% |
|      | 08.03.00 | Furnish and Install Inspection Well                     | EA     | 2                 | 20,529.49  | 41,058.98     | 100% | 2                 | 20,529.49     | 41,058.98     | 100% | 2             | 20,529.49  | 41,058.98     | 100%          | 2                   | 20,529.49  | 41,058.98     | 100% |
| 09   | 09.00.00 | ROCK BORROW AREA - DEVELOP, PROCESSING, AND RESTORATION |        |                   |            | 32,582,141.68 |      |                   | 33,838,005.91 |               |      | 32,582,141.68 |            |               | 32,582,141.68 |                     |            | 32,582,141.68 |      |
|      | 09.01.00 | Strip/Overburden/Waste to Stockpile                     | BCY    | 589,900           | 8.98       | 5,295,697.41  | 104% | 612,637           | 8.98          | 5,499,817.73  | 104% | 589,900       | 8.98       | 5,295,697.41  | 100%          | 589,900             | 8.98       | 5,295,697.41  | 100% |
|      | 09.02.00 | Drill, Blast, Excavate to Crusher and Riprap Process    | BCY    | 1,922,299         | 6.82       | 13,117,982.99 | 104% | 1,996,393         | 6.82          | 13,623,609.84 | 104% | 1,922,299     | 6.82       | 13,117,982.99 | 100%          | 1,922,299           | 6.82       | 13,117,982.99 | 100% |
|      | 09.03.00 | Zone 4A, 4B, Zone 7A Processing                         | ECY    | 160,700           | 32.00      | 5,142,400.00  | 104% | 166,894           | 32.00         | 5,340,611.53  | 104% | 160,700       | 32.00      | 5,142,400.00  | 100%          | 160,700             | 32.00      | 5,142,400.00  | 100% |
|      | 09.04.00 | Riprap and Groin Processing                             | ECY    | 67,500            | 30.00      | 2,025,000.00  | 104% | 70,102            | 30.00         | 2,103,052.73  | 104% | 67,500        | 30.00      | 2,025,000.00  | 100%          | 67,500              | 30.00      | 2,025,000.00  | 100% |
|      | 09.05.00 | Removal of Excess Sand/Siltstone                        | BCY    | 377,600           | 13.26      | 5,006,773.06  | 104% | 392,154           | 13.26         | 5,199,756.91  | 104% | 377,600       | 13.26      | 5,006,773.06  | 100%          | 377,600             | 13.26      | 5,006,773.06  | 100% |
|      | 09.06.00 | Replace Overburden from Stockpile                       | ECY    | 106,000           | 6.71       | 711,030.18    | 104% | 110,086           | 6.71          | 738,436.52    | 104% | 106,000       | 6.71       | 711,030.18    | 100%          | 106,000             | 6.71       | 711,030.18    | 100% |
|      | 09.07.00 | Topsoil Replacement                                     | ECY    | 58,000            | 9.96       | 577,951.98    | 104% | 60,236            | 9.96          | 600,228.88    | 104% | 58,000        | 9.96       | 577,951.98    | 100%          | 58,000              | 9.96       | 577,951.98    | 100% |
|      | 09.08.00 | Seeding                                                 | SF     | 1,638,000         | 0.43       | 705,306.05    | 104% | 1,701,136         | 0.43          | 732,491.76    | 104% | 1,638,000     | 0.43       | 705,306.05    | 100%          | 1,638,000           | 0.43       | 705,306.05    | 100% |
| 10   | 10.00.00 | EMBANKMENT                                              |        |                   |            | 51,842,684.59 |      |                   | 53,840,937.93 |               |      | 51,842,684.59 |            |               | 51,842,684.59 |                     |            | 51,842,684.59 |      |
|      | 10.01.00 | Furnish and Install Zone 1 - Core                       | ECY    | 276,900           | 25.76      | 7,132,420.31  | 104% | 287,573           | 25.76         | 7,407,336.30  | 104% | 276,900       | 25.76      | 7,132,420.31  | 100%          | 276,900             | 25.76      | 7,132,420.31  | 100% |
|      | 10.02.00 | Purchase, Haul and Place - Zone 2 - Filter              | ECY    | 76,000            | 154.55     | 11,745,778.31 | 104% | 78,929,9          |               |               |      |               |            |               |               |                     |            |               |      |

DIRECT COST LEVEL 2 SUMMARY

|                   |          |                                                                                                                                                |     | 30% Cost Estimate |            |              | ADJ  | 300k CY Landslide |            |              | ADJ  | Grout Holes |            |              | ADJ  | Consolidation Grout |            |              |         |       |            |
|-------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------|------------|--------------|------|-------------------|------------|--------------|------|-------------|------------|--------------|------|---------------------|------------|--------------|---------|-------|------------|
| Item              | Sub Item | Description                                                                                                                                    | UoM | Qty               | Unit Rate  | Total        |      | Qty               | Unit Rate  | Total        |      | Qty         | Unit Rate  | Total        |      | Qty                 | Unit Rate  | Total        |         |       |            |
| 11                | 11.00.00 | INSTRUMENTATION AND TELEMETRY                                                                                                                  |     |                   |            | 1,349,500.00 | 100% |                   | -          | 1,349,500.00 | 100% |             |            | 1,349,500.00 | 100% |                     |            | 1,349,500.00 |         |       |            |
|                   | 11.01.00 | Instrumentation/Telemetry: Instrumentation/Telemetry (piezometers, settlement monitors (survey monuments), seismographs, and slope indicators) | LS  | 1                 | *****      | 1,349,500.00 |      | 1                 | *****      | 1,349,500.00 |      | 1           | *****      | 1,349,500.00 |      | 1                   | *****      | 1,349,500.00 |         |       |            |
| 12                | 12.00.00 | SITE RESTORATION                                                                                                                               |     |                   |            | 1,548,341.55 |      |                   | -          | 1,548,341.55 |      |             |            | 1,548,341.55 |      |                     |            | 1,548,341.55 |         |       |            |
|                   | 12.01.00 | Seeding                                                                                                                                        | SF  | 240,000           | 0.43       | 103,341.55   |      | 100%              | 240,000    | 0.43         |      | 103,341.55  | 100%       | 240,000      |      | 0.43                | 103,341.55 | 100%         | 240,000 | 0.43  | 103,341.55 |
|                   | 12.02.00 | Fencing                                                                                                                                        | LF  | 600               | 75.00      | 45,000.00    |      | 100%              | 600        | 75.00        |      | 45,000.00   | 100%       | 600          |      | 75.00               | 45,000.00  | 100%         | 600     | 75.00 | 45,000.00  |
|                   | 12.03.00 | Best Management Practices                                                                                                                      | LS  | 1                 | 800,000.00 | 800,000.00   | 100% | 1                 | 800,000.00 | 800,000.00   | 100% | 1           | 800,000.00 | 800,000.00   | 100% | 1                   | 800,000.00 | 800,000.00   |         |       |            |
|                   | 12.04.00 | Rock Check Dams                                                                                                                                | LS  | 1                 | 300,000.00 | 300,000.00   | 100% | 1                 | 300,000.00 | 300,000.00   | 100% | 1           | 300,000.00 | 300,000.00   | 100% | 1                   | 300,000.00 | 300,000.00   |         |       |            |
|                   | 12.05.00 | Drainage - Inlets, Culverts                                                                                                                    | LS  | 1                 | 300,000.00 | 300,000.00   | 100% | 1                 | 300,000.00 | 300,000.00   | 100% | 1           | 300,000.00 | 300,000.00   | 100% | 1                   | 300,000.00 | 300,000.00   |         |       |            |
| 15                | 15.00.00 | ALLOWANCE FOR UNLISTED ITEMS                                                                                                                   |     |                   |            | 6,595,285.47 | 100% |                   | -          | 6,820,230.74 | 100% |             | -          | 6,739,918.97 | 100% |                     |            | 6,660,401.89 |         |       |            |
|                   | 15.01.00 | Allowance for Unlisted Items                                                                                                                   | %   |                   | 5%         | 6,595,285.47 |      | 5%                | -          | 6,820,230.74 |      | 5%          | -          | 6,739,918.97 |      | 5%                  | -          | 6,660,401.89 |         |       |            |
| Total Direct Cost |          |                                                                                                                                                |     |                   |            | 138,500,995  |      |                   |            | 143,224,846  |      |             |            | 141,538,298  |      |                     |            | 139,868,440  |         |       |            |

Sites Reservoir  
Sites Dam Contingency Estimates  
Sites, CA

Cost Estimate  
AACEI Class 3  
February 27, 2025

DIRECT COST LEVEL 2 SUMMARY

|      |          |                                                        |        |         |            | 30% Cost Estimate |      |         | Core Haul  |               |      | Core Slope |            |               | Embankment Slopes |         |            |               |      |         |            |               |      |         |            |               |
|------|----------|--------------------------------------------------------|--------|---------|------------|-------------------|------|---------|------------|---------------|------|------------|------------|---------------|-------------------|---------|------------|---------------|------|---------|------------|---------------|------|---------|------------|---------------|
| Item | Sub Item | Description                                            | UoM    | Qty     | Unit Rate  | Total             | ADJ  | Qty     | Unit Rate  | Total         | ADJ  | Qty        | Unit Rate  | Total         | ADJ               | Qty     | Unit Rate  | Total         | ADJ  | Qty     | Unit Rate  | Total         | ADJ  | Qty     | Unit Rate  | Total         |
| 01   | 01.00.00 | PRECONSTRUCTION ACTIVITIES                             |        |         |            | 3,698,373.21      |      |         |            | 3,698,373.21  |      |            |            | 3,698,373.21  |                   |         |            |               |      |         |            |               |      |         |            |               |
|      | 01.01.00 | Demolition Work                                        | LS     | -       |            | Elsewhere         |      |         |            |               |      |            |            |               |                   |         |            |               |      |         |            |               |      |         |            |               |
|      | 01.02.00 | Clearing and Grubbing                                  | ACRE   | 27      | 10,250.26  | 276,757.01        | 100% | 27      | 10,250.26  | 276,757.01    | 100% | 27         | 10,250.26  | 276,757.01    | 100%              | 27      | 10,250.26  | 276,757.01    | 100% | 27      | 10,250.26  | 276,757.01    | 100% | 27      | 10,250.26  | 276,757.01    |
|      | 01.03.00 | Reservoir Clearing                                     | ACRE   | -       |            | -                 | 100% | -       |            |               | 100% | -          |            |               | 100%              | -       |            |               | 100% | -       |            |               | 100% | -       |            |               |
|      | 01.04.00 | Erosion and Sediment Control                           | ACRE   | 27      | 108,235.91 | 2,922,369.57      | 100% | 27      | 108,235.91 | 2,922,369.57  | 100% | 27         | 108,235.91 | 2,922,369.57  | 100%              | 27      | 108,235.91 | 2,922,369.57  | 100% | 27      | 108,235.91 | 2,922,369.57  | 100% | 27      | 108,235.91 | 2,922,369.57  |
|      | 01.05.00 | Developing haul routes - Haul routes inside reservoir  | ACRES  | 22      | 11,150.62  | 245,313.55        | 100% | 22      | 11,150.62  | 245,313.55    | 100% | 22         | 11,150.62  | 245,313.55    | 100%              | 22      | 11,150.62  | 245,313.55    | 100% | 22      | 11,150.62  | 245,313.55    | 100% | 22      | 11,150.62  | 245,313.55    |
|      | 01.06.00 | Developing haul routes - Haul routes outside reservoir | ACRES  | 15      | 11,150.62  | 167,259.24        | 100% | 15      | 11,150.62  | 167,259.24    | 100% | 15         | 11,150.62  | 167,259.24    | 100%              | 15      | 11,150.62  | 167,259.24    | 100% | 15      | 11,150.62  | 167,259.24    | 100% | 15      | 11,150.62  | 167,259.24    |
|      | 01.07.00 | Developing Stockpile and Staging Areas                 | ACRES  | 5       | 17,334.77  | 86,673.85         | 100% | 5       | 17,334.77  | 86,673.85     | 100% | 5          | 17,334.77  | 86,673.85     | 100%              | 5       | 17,334.77  | 86,673.85     | 100% | 5       | 17,334.77  | 86,673.85     | 100% | 5       | 17,334.77  | 86,673.85     |
| 02   | 02.00.00 | COFFERDAM                                              |        |         |            | 5,981,191.05      |      |         |            | 5,981,191.05  |      |            |            | 5,981,191.05  |                   |         |            | 5,981,191.05  |      |         |            |               |      |         |            |               |
|      | 02.01.00 | Cofferdam Excavation                                   | BCY    | 189,100 | 15.99      | 3,024,380.94      | 100% | 189,100 | 15.99      | 3,024,380.94  | 100% | 189,100    | 15.99      | 3,024,380.94  | 122%              | 231,122 | 15.99      | 3,696,465.60  | 122% | 231,122 | 15.99      | 3,696,465.60  | 122% | 231,122 | 15.99      | 3,696,465.60  |
|      | 02.02.00 | Cofferdam - Zone 6                                     | ECY    | 48,600  | 12.01      | 583,736.15        | 100% | 48,600  | 12.01      | 583,736.15    | 100% | 48,600     | 12.01      | 583,736.15    | 122%              | 59,400  | 12.01      | 713,455.30    | 122% | 59,400  | 12.01      | 713,455.30    | 122% | 59,400  | 12.01      | 713,455.30    |
|      | 02.03.00 | Cofferdam - Zone 9                                     | ECY    | 94,100  | 13.42      | 1,263,073.96      | 100% | 94,100  | 13.42      | 1,263,073.96  | 100% | 94,100     | 13.42      | 1,263,073.96  | 122%              | 115,011 | 13.42      | 1,543,757.06  | 122% | 115,011 | 13.42      | 1,543,757.06  | 122% | 115,011 | 13.42      | 1,543,757.06  |
|      | 02.04.00 | Cofferdam - Cutoff Wall                                | SF     | 24,000  | 40.00      | 960,000.00        | 100% | 24,000  | 40.00      | 960,000.00    | 100% | 24,000     | 40.00      | 960,000.00    | 122%              | 29,333  | 40.00      | 1,173,333.33  | 122% | 29,333  | 40.00      | 1,173,333.33  | 122% | 29,333  | 40.00      | 1,173,333.33  |
|      | 02.05.00 | Cofferdam - Dewatering Allowance                       | LS     | 1       | 150,000.00 | 150,000.00        | 100% | 1       | 150,000.00 | 150,000.00    | 100% | 1          | 150,000.00 | 150,000.00    | 122%              | 1       | 150,000.00 | 183,333.33    | 122% | 1       | 150,000.00 | 183,333.33    | 122% | 1       | 150,000.00 | 183,333.33    |
| 04   | 04.00.00 | FOUNDATION EXCAVATION                                  |        |         |            | 6,790,031.25      |      |         |            | 6,790,031.25  |      |            |            | 6,790,031.25  |                   |         |            | 6,790,031.25  |      |         |            |               |      |         |            |               |
|      | 04.01.00 | Topsoil Salvage                                        | BCY    | 58,000  | 6.11       | 354,478.21        | 100% | 58,000  | 6.11       | 354,478.21    | 100% | 58,000     | 6.11       | 354,478.21    | 122%              | 70,889  | 6.11       | 433,251.15    | 122% | 70,889  | 6.11       | 433,251.15    | 122% | 70,889  | 6.11       | 433,251.15    |
|      | 04.02.00 | Drill and Shoot Foundation                             | BCY    | 41,700  | 14.86      | 619,756.66        | 100% | 41,700  | 14.86      | 619,756.66    | 100% | 41,700     | 14.86      | 619,756.66    | 122%              | 50,967  | 14.86      | 757,480.36    | 122% | 50,967  | 14.86      | 757,480.36    | 122% | 50,967  | 14.86      | 757,480.36    |
|      | 04.03.00 | Dam Foundation Excavation                              | BCY    | 417,000 | 11.64      | 4,855,796.38      | 100% | 417,000 | 11.64      | 4,855,796.38  | 100% | 417,000    | 11.64      | 4,855,796.38  | 122%              | 509,667 | 11.64      | 5,934,862.24  | 122% | 509,667 | 11.64      | 5,934,862.24  | 122% | 509,667 | 11.64      | 5,934,862.24  |
|      | 04.05.00 | Dewatering allowance                                   | Months | 12      | 80,000.00  | 960,000.00        | 100% | 12      | 80,000.00  | 960,000.00    | 100% | 12         | 80,000.00  | 960,000.00    | 122%              | 15      | 80,000.00  | 1,173,333.33  | 122% | 15      | 80,000.00  | 1,173,333.33  | 122% | 15      | 80,000.00  | 1,173,333.33  |
| 05   | 05.00.00 | FOUNDATION PREPARATION - BENEATH CORE                  |        |         |            | 3,815,442.65      |      |         |            | 3,815,442.65  |      |            |            | 3,815,442.65  |                   |         |            | 3,815,442.65  |      |         |            |               |      |         |            |               |
|      | 05.01.00 | Initial Foundation Cleaning - Core                     | SY     | 9,500   | 26.63      | 252,991.37        | 100% | 9,500   | 26.63      | 252,991.37    | 100% | 9,500      | 26.63      | 252,991.37    | 122%              | 11,611  | 26.63      | 309,211.67    | 122% | 11,611  | 26.63      | 309,211.67    | 122% | 11,611  | 26.63      | 309,211.67    |
|      | 05.02.00 | Final Foundation Cleaning - Core                       | SY     | 9,500   | 35.10      | 333,488.62        | 100% | 9,500   | 35.10      | 333,488.62    | 100% | 9,500      | 35.10      | 333,488.62    | 122%              | 11,611  | 35.10      | 407,597.20    | 122% | 11,611  | 35.10      | 407,597.20    | 122% | 11,611  | 35.10      | 407,597.20    |
|      | 05.03.00 | Dental Excavation                                      | CY     | 2,900   | 26.60      | 77,144.38         | 100% | 2,900   | 26.60      | 77,144.38     | 100% | 2,900      | 26.60      | 77,144.38     | 122%              | 3,544   | 26.60      | 94,287.58     | 122% | 3,544   | 26.60      | 94,287.58     | 122% | 3,544   | 26.60      | 94,287.58     |
|      | 05.04.00 | Dental Concrete                                        | CY     | 2,900   | 529.67     | 1,536,052.63      | 100% | 2,900   | 529.67     | 1,536,052.63  | 100% | 2,900      | 529.67     | 1,536,052.63  | 122%              | 3,544   | 529.67     | 1,877,397.66  | 122% | 3,544   | 529.67     | 1,877,397.66  | 122% | 3,544   | 529.67     | 1,877,397.66  |
|      | 05.05.00 | Backfill Concrete                                      | CY     | 2,150   | 408.03     | 877,271.53        | 100% | 2,150   | 408.03     | 877,271.53    | 100% | 2,150      | 408.03     | 877,271.53    | 122%              | 2,628   | 408.03     | 1,072,220.76  | 122% | 2,628   | 408.03     | 1,072,220.76  | 122% | 2,628   | 408.03     | 1,072,220.76  |
|      | 05.06.00 | Shaping Excavations                                    | CY     | 200     | 48.22      | 9,643.05          | 100% | 200     | 48.22      | 9,643.05      | 100% | 200        | 48.22      | 9,643.05      | 122%              | 244     | 48.22      | 11,785.95     | 122% | 244     | 48.22      | 11,785.95     | 122% | 244     | 48.22      | 11,785.95     |
|      | 05.07.00 | Slush Grout                                            | Sacks  | 2,850   | 255.74     | 728,851.07        | 100% | 2,850   | 255.74     | 728,851.07    | 100% | 2,850      | 255.74     | 728,851.07    | 122%              | 3,483   | 255.74     | 890,817.98    | 122% | 3,483   | 255.74     | 890,817.98    | 122% | 3,483   | 255.74     | 890,817.98    |
| 06   | 06.00.00 | GROUTING                                               |        |         |            | 23,732,859.84     |      |         |            | 23,732,859.84 |      |            |            | 23,732,859.84 |                   |         |            | 23,732,859.84 |      |         |            |               |      |         |            |               |
|      | 06.01.00 | Grout Cap                                              | CY     | 2,950   | 1,729.72   | 5,102,668.68      | 100% | 2,950   | 1,729.72   | 5,102,668.68  | 100% | 2,950      | 1,729.72   | 5,102,668.68  | 100%              | 2,950   | 1,729.72   | 5,102,668.68  | 100% | 2,950   | 1,729.72   | 5,102,668.68  | 100% | 2,950   | 1,729.72   | 5,102,668.68  |
|      | 06.02.00 | Grout Cap Anchors                                      | LF     | 2,040   | 180.29     | 367,801.57        | 100% | 2,040   | 180.29     | 367,801.57    | 100% | 2,040      | 180.29     | 367,801.57    | 100%              | 2,040   | 180.29     | 367,801.57    | 100% | 2,040   | 180.29     | 367,801.57    | 100% | 2,040   | 180.29     | 367,801.57    |
|      | 06.03.00 | Grout Cut Off Wall                                     | CY     | -       |            | -                 | 100% | -       |            |               | 100% | -          |            |               | 100%              | -       |            |               | 100% | -       |            |               | 100% | -       |            |               |
|      | 06.04.00 | Curtain Grouting - Includes Stich and Fans             | LF     | 79,700  | 224.21     | 17,869,615.00     | 100% | 79,700  | 224.21     | 17,869,615.00 | 100% | 79,700     | 224.21     | 17,869,615.00 | 100%              | 79,700  | 224.21     | 17,869,615.00 | 100% | 79,700  | 224.21     | 17,869,615.00 | 100% | 79,700  | 224.21     | 17,869,615.00 |
|      | 06.05.00 | Consolidation Grouting                                 | LF     | -       |            | -                 | 100% | -       |            |               | 100% | -          |            |               | 100%              | -       |            |               | 100% | -       |            |               | 100% | -       |            |               |
|      | 06.06.00 | Type III Cement                                        | Tons   | 1,428   | 275.00     | 392,774.59        | 100% | 1,428   | 275.00     | 392,774.59    | 100% | 1,428      | 275.00     | 392,774.59    | 100%              | 1,428   | 275.00     | 392,774.59    | 100% | 1,428   | 275.00     | 392,774.59    | 100% | 1,428   | 275.00     | 392,774.59    |
| 07   | 07.00.00 | FOUNDATION PREPARATION - BENEATH SHELL                 |        |         |            | 385,745.78        |      |         |            | 385,745.78    |      |            |            | 385,745.78    |                   |         |            | 385,745.78    |      |         |            |               |      |         |            |               |
|      | 07.01.00 | Foundation Cleaning - Shell                            | SY     | 94,000  | 4.10       | 385,745.78        | 100% | 94,000  | 4.10       | 385,745.78    | 100% | 94,000     | 4.10       | 385,745.78    | 122%              | 114,889 | 4.10       | 471,467.07    | 122% | 114,889 | 4.10       | 471,467.07    | 122% | 114,889 | 4.10       | 471,467.07    |
| 08   | 08.00.00 | FOUNDATION DRAINAGE                                    |        |         |            | 179,397.77        |      |         |            | 179,397.77    |      |            |            | 179,397.77    |                   |         |            | 179,397.77    |      |         |            |               |      |         |            |               |
|      | 08.01.00 | Furnish and Install Foundation Drain Pipe              | LF     | 350     | 277.94     | 97,279.82         | 100% | 350     | 277.94     | 97,279.82     | 100% | 350        | 277.94     | 97,279.82     | 100%              | 350     | 277.94     | 97,279.82     | 100% | 350     | 277.94     | 97,279.82     | 100% | 350     | 277.94     | 97,279.82     |
|      | 08.02.00 | Furnish and Install Foundation Drain Manholes          | EA     | 2       | 20,529.49  | 41,058.98         | 100% | 2       | 20,529.49  | 41,058.98     | 100% | 2          | 20,529.49  | 41,058.98     | 100%              | 2       | 20,529.49  | 41,058.98     | 100% | 2       | 20,529.49  | 41,058.98     | 100% | 2       | 20,529.49  | 41,058.98     |
|      | 08.03.00 | Furnish and Install Inspection Well                    | EA     | 2       | 20,529.49  | 41,058.98         | 100% | 2       | 20,529.49  | 41,058.98     | 100% | 2          | 20,529.49  | 41,058.98     | 100%              | 2       | 20,529.49  | 41,058        |      |         |            |               |      |         |            |               |

DIRECT COST LEVEL 2 SUMMARY

|                   |          |                                                                                                                                                | 30% Cost Estimate |         |            |              |      |             |            |              |      |             |            |              |
|-------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|---------|------------|--------------|------|-------------|------------|--------------|------|-------------|------------|--------------|
| Item              | Sub Item | Description                                                                                                                                    | UoM               | Qty     | Unit Rate  | Total        | ADJ  | Qty         | Unit Rate  | Total        | ADJ  | Qty         | Unit Rate  | Total        |
| 11                | 11.00.00 | INSTRUMENTATION AND TELEMETRY                                                                                                                  |                   |         |            | 1,349,500.00 |      |             | -          | 1,349,500.00 |      |             |            | 1,349,500.00 |
|                   | 11.01.00 | Instrumentation/Telemetry: Instrumentation/Telemetry (piezometers, settlement monitors (survey monuments), seismographs, and slope indicators) | LS                | 1       | #####      | 1,349,500.00 | 100% | 1           | #####      | 1,349,500.00 | 100% | 1           | #####      | 1,349,500.00 |
| 12                | 12.00.00 | SITE RESTORATION                                                                                                                               |                   |         |            | 1,548,341.55 |      |             | -          | 1,548,341.55 |      |             |            | 1,548,341.55 |
|                   | 12.01.00 | Seeding                                                                                                                                        | SF                | 240,000 | 0.43       | 103,341.55   | 100% | 240,000     | 0.43       | 103,341.55   | 100% | 240,000     | 0.43       | 103,341.55   |
|                   | 12.02.00 | Fencing                                                                                                                                        | LF                | 600     | 75.00      | 45,000.00    | 100% | 600         | 75.00      | 45,000.00    | 100% | 600         | 75.00      | 45,000.00    |
|                   | 12.03.00 | Best Management Practices                                                                                                                      | LS                | 1       | 800,000.00 | 800,000.00   | 100% | 1           | 800,000.00 | 800,000.00   | 100% | 1           | 800,000.00 | 800,000.00   |
|                   | 12.04.00 | Rock Check Dams                                                                                                                                | LS                | 1       | 300,000.00 | 300,000.00   | 100% | 1           | 300,000.00 | 300,000.00   | 100% | 1           | 300,000.00 | 300,000.00   |
|                   | 12.05.00 | Drainage - Inlets, Culverts                                                                                                                    | LS                | 1       | 300,000.00 | 300,000.00   | 100% | 1           | 300,000.00 | 300,000.00   | 100% | 1           | 300,000.00 | 300,000.00   |
| 15                | 15.00.00 | ALLOWANCE FOR UNLISTED ITEMS                                                                                                                   |                   |         |            | 6,595,285.47 |      |             | -          | 6,792,464.45 |      |             |            | 8,279,175.41 |
|                   | 15.01.00 | Allowance for Unlisted Items                                                                                                                   | %                 |         | 5%         | 6,595,285.47 | 100% | 5%          | -          | 6,792,464.45 | 100% | 5%          | -          | 8,279,175.41 |
| Total Direct Cost |          |                                                                                                                                                |                   |         |            | 138,500,995  |      | 142,641,754 |            |              |      | 144,031,077 |            |              |
|                   |          |                                                                                                                                                |                   |         |            |              |      |             |            |              |      | 173,862,684 |            |              |

Sites Reservoir  
Sites Dam Contingency Estimates  
Sites, CA

Cost Estimate  
AAECI Class 3  
#####

DIRECT COST LEVEL 2 SUMMARY

|      |             |                                                         | 30% Cost Estimate |           |               |               |      |           | Overburden    |               |      | Borrow Quality - 25% |               |               | Borrow Quality - 35% |           |               |               |               |
|------|-------------|---------------------------------------------------------|-------------------|-----------|---------------|---------------|------|-----------|---------------|---------------|------|----------------------|---------------|---------------|----------------------|-----------|---------------|---------------|---------------|
| Item | Description | UoM                                                     | Qty               | Unit Rate | Total         | ADJ           | Qty  | Unit Rate | Total         | ADJ           | Qty  | Unit Rate            | Total         | ADJ           | Qty                  | Unit Rate | Total         |               |               |
| 01   | 01.00.00    | PRECONSTRUCTION ACTIVITIES                              |                   |           | 3,698,373.21  |               |      |           | 3,698,373.21  |               |      |                      | 3,698,373.21  |               |                      |           | 3,698,373.21  |               |               |
|      | 01.01.00    | Demolition Work                                         | LS                | -         | Elsewhere     |               |      |           |               |               |      |                      |               |               |                      |           |               |               |               |
|      | 01.02.00    | Clearing and Grubbing                                   | ACRE              | 27        | 10,250.26     | 276,757.01    | 100% | 27        | 10,250.26     | 276,757.01    | 100% | 27                   | 10,250.26     | 276,757.01    | 100%                 | 27        | 10,250.26     | 276,757.01    |               |
|      | 01.03.00    | Reservoir Clearing                                      | ACRE              | -         | -             | -             | 100% | -         | -             | -             | 100% | -                    | -             | -             | 100%                 | -         | -             | -             |               |
|      | 01.04.00    | Erosion and Sediment Control                            | ACRE              | 27        | 108,235.91    | 2,922,369.57  | 100% | 27        | 108,235.91    | 2,922,369.57  | 100% | 27                   | 108,235.91    | 2,922,369.57  | 100%                 | 27        | 108,235.91    | 2,922,369.57  |               |
|      | 01.05.00    | Developing haul routes - Haul routes inside reservoir   | ACRES             | 22        | 11,150.62     | 245,313.55    | 100% | 22        | 11,150.62     | 245,313.55    | 100% | 22                   | 11,150.62     | 245,313.55    | 100%                 | 22        | 11,150.62     | 245,313.55    |               |
|      | 01.06.00    | Developing haul routes - Haul routes outside reservoir  | ACRES             | 15        | 11,150.62     | 167,259.24    | 100% | 15        | 11,150.62     | 167,259.24    | 100% | 15                   | 11,150.62     | 167,259.24    | 100%                 | 15        | 11,150.62     | 167,259.24    |               |
|      | 01.07.00    | Developing Stockpile and Staging Areas                  | ACRES             | 5         | 17,334.77     | 86,673.85     | 100% | 5         | 17,334.77     | 86,673.85     | 100% | 5                    | 17,334.77     | 86,673.85     | 100%                 | 5         | 17,334.77     | 86,673.85     |               |
| 02   | 02.00.00    | COFFERDAM                                               |                   |           | 5,981,191.05  |               |      |           | 5,981,191.05  |               |      |                      | 5,981,191.05  |               |                      |           | 5,981,191.05  |               |               |
|      | 02.01.00    | Cofferdam Excavation                                    | BCY               | 189,100   | 15.99         | 3,024,380.94  | 100% | 189,100   | 15.99         | 3,024,380.94  | 100% | 189,100              | 15.99         | 3,024,380.94  | 100%                 | 189,100   | 15.99         | 3,024,380.94  |               |
|      | 02.02.00    | Cofferdam - Zone 6                                      | ECY               | 48,600    | 12.01         | 583,736.15    | 100% | 48,600    | 12.01         | 583,736.15    | 100% | 48,600               | 12.01         | 583,736.15    | 100%                 | 48,600    | 12.01         | 583,736.15    |               |
|      | 02.03.00    | Cofferdam - Zone 9                                      | ECY               | 94,100    | 13.42         | 1,263,073.96  | 100% | 94,100    | 13.42         | 1,263,073.96  | 100% | 94,100               | 13.42         | 1,263,073.96  | 100%                 | 94,100    | 13.42         | 1,263,073.96  |               |
|      | 02.04.00    | Cofferdam - Cutoff Wall                                 | SF                | 24,000    | 40.00         | 960,000.00    | 100% | 24,000    | 40.00         | 960,000.00    | 100% | 24,000               | 40.00         | 960,000.00    | 100%                 | 24,000    | 40.00         | 960,000.00    |               |
|      | 02.05.00    | Cofferdam - Dewatering Allowance                        | LS                | 1         | 150,000.00    | 150,000.00    | 100% | 1         | 150,000.00    | 150,000.00    | 100% | 1                    | 150,000.00    | 150,000.00    | 100%                 | 1         | 150,000.00    | 150,000.00    |               |
| 04   | 04.00.00    | FOUNDATION EXCAVATION                                   |                   |           | 6,790,031.25  |               |      |           | 6,790,031.25  |               |      |                      | 6,790,031.25  |               |                      |           | 6,790,031.25  |               |               |
|      | 04.01.00    | Topsoil Salvage                                         | BCY               | 58,000    | 6.11          | 354,478.21    | 100% | 58,000    | 6.11          | 354,478.21    | 100% | 58,000               | 6.11          | 354,478.21    | 100%                 | 58,000    | 6.11          | 354,478.21    |               |
|      | 04.02.00    | Drill and Shoot Foundation                              | BCY               | 41,700    | 14.86         | 619,756.66    | 100% | 41,700    | 14.86         | 619,756.66    | 100% | 41,700               | 14.86         | 619,756.66    | 100%                 | 41,700    | 14.86         | 619,756.66    |               |
|      | 04.03.00    | Dam Foundation Excavation                               | BCY               | 417,000   | 11.64         | 4,855,796.38  | 100% | 417,000   | 11.64         | 4,855,796.38  | 100% | 417,000              | 11.64         | 4,855,796.38  | 100%                 | 417,000   | 11.64         | 4,855,796.38  |               |
|      | 04.05.00    | Dewatering allowance                                    | Months            | 12        | 80,000.00     | 960,000.00    | 100% | 12        | 80,000.00     | 960,000.00    | 100% | 12                   | 80,000.00     | 960,000.00    | 100%                 | 12        | 80,000.00     | 960,000.00    |               |
| 05   | 05.00.00    | FOUNDATION PREPARATION - BENEATH CORE                   |                   |           | 3,815,442.65  |               |      |           | 3,815,442.65  |               |      |                      | 3,815,442.65  |               |                      |           | 3,815,442.65  |               |               |
|      | 05.01.00    | Initial Foundation Cleaning - Core                      | SY                | 9,500     | 26.63         | 252,991.37    | 100% | 9,500     | 26.63         | 252,991.37    | 100% | 9,500                | 26.63         | 252,991.37    | 100%                 | 9,500     | 26.63         | 252,991.37    |               |
|      | 05.02.00    | Final Foundation Cleaning - Core                        | SY                | 9,500     | 35.10         | 333,488.62    | 100% | 9,500     | 35.10         | 333,488.62    | 100% | 9,500                | 35.10         | 333,488.62    | 100%                 | 9,500     | 35.10         | 333,488.62    |               |
|      | 05.03.00    | Dental Excavation                                       | CY                | 2,900     | 26.60         | 77,144.38     | 100% | 2,900     | 26.60         | 77,144.38     | 100% | 2,900                | 26.60         | 77,144.38     | 100%                 | 2,900     | 26.60         | 77,144.38     |               |
|      | 05.04.00    | Dental Concrete                                         | CY                | 2,900     | 529.67        | 1,536,052.63  | 100% | 2,900     | 529.67        | 1,536,052.63  | 100% | 2,900                | 529.67        | 1,536,052.63  | 100%                 | 2,900     | 529.67        | 1,536,052.63  |               |
|      | 05.05.00    | Backfill Concrete                                       | CY                | 2,150     | 408.03        | 877,271.53    | 100% | 2,150     | 408.03        | 877,271.53    | 100% | 2,150                | 408.03        | 877,271.53    | 100%                 | 2,150     | 408.03        | 877,271.53    |               |
|      | 05.06.00    | Shaping Excavations                                     | CY                | 200       | 48.22         | 9,643.05      | 100% | 200       | 48.22         | 9,643.05      | 100% | 200                  | 48.22         | 9,643.05      | 100%                 | 200       | 48.22         | 9,643.05      |               |
|      | 05.07.00    | Slush Grout                                             | Sacks             | 2,850     | 255.74        | 728,851.07    | 100% | 2,850     | 255.74        | 728,851.07    | 100% | 2,850                | 255.74        | 728,851.07    | 100%                 | 2,850     | 255.74        | 728,851.07    |               |
| 06   | 06.00.00    | GROUTING                                                |                   |           | 23,732,859.84 |               |      |           | 23,732,859.84 |               |      |                      | 23,732,859.84 |               |                      |           | 23,732,859.84 |               |               |
|      | 06.01.00    | Grout Cap                                               | CY                | 2,950     | 1,729.72      | 5,102,668.68  | 100% | 2,950     | 1,729.72      | 5,102,668.68  | 100% | 2,950                | 1,729.72      | 5,102,668.68  | 100%                 | 2,950     | 1,729.72      | 5,102,668.68  |               |
|      | 06.02.00    | Grout Cap Anchors                                       | LF                | 2,040     | 180.29        | 367,801.57    | 100% | 2,040     | 180.29        | 367,801.57    | 100% | 2,040                | 180.29        | 367,801.57    | 100%                 | 2,040     | 180.29        | 367,801.57    |               |
|      | 06.03.00    | Grout Cut Off Wall                                      | CY                | -         | -             | -             | 100% | -         | -             | -             | 100% | -                    | -             | -             | 100%                 | -         | -             | -             |               |
|      | 06.04.00    | Curtain Grouting - Includes Stich and Fans              | LF                | 79,700    | 224.21        | 17,869,615.00 | 100% | 79,700    | 224.21        | 17,869,615.00 | 100% | 79,700               | 224.21        | 17,869,615.00 | 100%                 | 79,700    | 224.21        | 17,869,615.00 |               |
|      | 06.05.00    | Consolidation Grouting                                  | LF                | -         | -             | -             | 100% | -         | -             | -             | 100% | -                    | -             | -             | 100%                 | -         | -             | -             |               |
|      | 06.06.00    | Type III Cement                                         | Tons              | 1,428     | 275.00        | 392,774.59    | 100% | 1,428     | 275.00        | 392,774.59    | 100% | 1,428                | 275.00        | 392,774.59    | 100%                 | 1,428     | 275.00        | 392,774.59    |               |
| 07   | 07.00.00    | FOUNDATION PREPARATION - BENEATH SHELL                  |                   |           | 385,745.78    |               |      |           | 385,745.78    |               |      |                      | 385,745.78    |               |                      |           | 385,745.78    |               |               |
|      | 07.01.00    | Foundation Cleaning - Shell                             | SY                | 94,000    | 4.10          | 385,745.78    | 100% | 94,000    | 4.10          | 385,745.78    | 100% | 94,000               | 4.10          | 385,745.78    | 100%                 | 94,000    | 4.10          | 385,745.78    |               |
| 08   | 08.00.00    | FOUNDATION DRAINAGE                                     |                   |           | 179,397.77    |               |      |           | 179,397.77    |               |      |                      | 179,397.77    |               |                      |           | 179,397.77    |               |               |
|      | 08.01.00    | Furnish and Install Foundation Drain Pipe               | LF                | 350       | 277.94        | 97,279.82     | 100% | 350       | 277.94        | 97,279.82     | 100% | 350                  | 277.94        | 97,279.82     | 100%                 | 350       | 277.94        | 97,279.82     |               |
|      | 08.02.00    | Furnish and Install Foundation Drain Manholes           | EA                | 2         | 20,529.49     | 41,058.98     | 100% | 2         | 20,529.49     | 41,058.98     | 100% | 2                    | 20,529.49     | 41,058.98     | 100%                 | 2         | 20,529.49     | 41,058.98     |               |
|      | 08.03.00    | Furnish and Install Inspection Well                     | EA                | 2         | 20,529.49     | 41,058.98     | 100% | 2         | 20,529.49     | 41,058.98     | 100% | 2                    | 20,529.49     | 41,058.98     | 100%                 | 2         | 20,529.49     | 41,058.98     |               |
| 09   | 09.00.00    | ROCK BORROW AREA - DEVELOP, PROCESSING, AND RESTORATION |                   |           | 32,582,141.68 |               |      |           | 37,877,839.09 |               |      |                      | 35,919,990.39 |               |                      |           | 39,257,839.09 |               |               |
|      | 09.01.00    | Strip/Overburden/Waste to Stockpile                     | BCY               | 589,900   | 8.98          | 5,295,697.41  | 200% | 1,179,800 | 8.98          | 10,591,394.83 | 100% | 589,900              | 8.98          | 5,295,697.41  | 100%                 | 589,900   | 8.98          | 5,295,697.41  |               |
|      | 09.02.00    | Drill, Blast, Excavate to Crusher and Riprap Process    | BCY               | 1,922,299 | 6.82          | 13,117,982.99 | 100% | 1,922,299 | 6.82          | 13,117,982.99 | 100% | 1,922,299            | 6.82          | 13,117,982.99 | 100%                 | 1,922,299 | 6.82          | 13,117,982.99 |               |
|      | 09.03.00    | Zone 4A, 4B, Zone 7A Processing                         | ECY               | 160,700   | 32.00         | 5,142,400.00  | 100% | 160,700   | 32.00         | 5,142,400.00  | 100% | 160,700              | 32.00         | 5,142,400.00  | 100%                 | 160,700   | 32.00         | 5,142,400.00  |               |
|      | 09.04.00    | Riprap and Groin Processing                             | ECY               | 67,500    | 30.00         | 2,025,000.00  | 100% | 67,500    | 30.00         | 2,025,000.00  | 100% | 67,500               | 30.00         | 2,025,000.00  | 100%                 | 67,500    | 30.00         | 2,025,000.00  |               |
|      | 09.05.00    | Removal of Excess Sand/Siltstone                        | BCY               | 377,600   | 13.26         | 5,006,773.06  | 100% | 377,600   | 13.26         | 5,006,773.06  | 100% | 167%                 | 629,333       | 13.26         | 8,344,621.77         | 233%      | 881,067       | 13.26         | 11,682,470.48 |
|      | 09.06.00    | Replace Overburden from Stockpile                       | ECY               | 106,000   | 6.71          | 711,030.18    | 100% | 106,000   | 6.71          | 711,030.18    | 100% | 106,000              | 6.71          | 711,030.18    | 100%                 | 106,000   | 6.71          | 711,030.18    |               |
|      | 09.07.00    | Topsoil Replacement                                     | ECY               | 58,000    | 9.96          | 577,951.98    | 100% | 58,000    | 9.96          | 577,951.98    | 100% | 58,000               | 9.96          | 577,951.98    | 100%                 | 58,000    | 9.96          | 577,951.98    |               |
|      | 09.08.00    | Seeding                                                 | SF                | 1,638,000 | 0.43          | 705,306.05    | 100% | 1,638,000 | 0.43          | 705,306.05    | 100% | 1,638,000            | 0.43          | 705,306.05    | 100%                 | 1,638,000 | 0.43          | 705,306.05    |               |
| 10   | 10.00.00    | EMBANKMENT                                              |                   |           | 51,842,684.59 |               |      |           | 51,842,684.59 |               |      |                      | 51,842,684.59 |               |                      |           | 51,842,684.59 |               |               |
|      | 10.01.00    | Furnish and Install Zone 1 - Core                       | ECY               | 276,900   | 25.76         | 7,132,420.31  | 100% | 276,900   | 25.76         | 7,132,420.31  | 100% | 276,900              | 25.76         | 7,132,420.31  | 100%                 | 276,900   | 25.76         | 7,132,420.31  |               |
|      | 10.02.00    | Purchase, Haul and Place - Zone 2 - Filter              | ECY               | 76,000    | 154.55        | 11,745,778.31 | 100% | 76,000    | 154.55        | 11,745,778.31 | 100% | 76,000               | 154.55        | 11,745,778.31 | 100%                 | 76,000    | 154.55        | 11,745,778.31 |               |
|      | 10.03.00    | Purchase, Haul and Place - Zone 3 - Drain               | ECY               | 57,900    | 146.93        | 8,507,480.95  | 100% | 57,900    | 146.93        | 8,507,480.95  | 100% | 57,900               | 146.93        | 8,507,480.95  | 100%                 | 57,900    | 146.93        | 8,507,480.95  |               |
|      | 10.04.00    | Produce, Haul and Place - Zone 4A - Fine Transition     | ECY               | 47,000    | 35.38         | 1,662,653.28  | 100% | 47,000    | 35.38         | 1,662,653.28  | 100% | 47,000               | 35.38         | 1,662,653.28  | 100%                 | 47,000    | 35.38         | 1,662,6       |               |

DIRECT COST LEVEL 2 SUMMARY

|                   |          |                                                                                                                                                | 30% Cost Estimate |         |            |              |      |             | Overburden |              |              |         |            |              | Borrow Quality - 25% |              |            |              |      |         | Borrow Quality - 35% |              |  |  |  |  |  |
|-------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|---------|------------|--------------|------|-------------|------------|--------------|--------------|---------|------------|--------------|----------------------|--------------|------------|--------------|------|---------|----------------------|--------------|--|--|--|--|--|
| Item              | Sub Item | Description                                                                                                                                    | UoM               | Qty     | Unit Rate  | Total        | ADJ  | Qty         | Unit Rate  | Total        | ADJ          | Qty     | Unit Rate  | Total        | ADJ                  | Qty          | Unit Rate  | Total        | ADJ  | Qty     | Unit Rate            | Total        |  |  |  |  |  |
| 11                | 11.00.00 | INSTRUMENTATION AND TELEMETRY                                                                                                                  |                   |         |            | 1,349,500.00 |      |             | -          | 1,349,500.00 |              |         |            | 1,349,500.00 |                      |              |            | 1,349,500.00 |      |         |                      | 1,349,500.00 |  |  |  |  |  |
|                   | 11.01.00 | Instrumentation/Telemetry: Instrumentation/Telemetry (piezometers, settlement monitors (survey monuments), seismographs, and slope indicators) | LS                | 1       | #####      | 1,349,500.00 | 100% | 1           | #####      | 1,349,500.00 | 100%         | 1       | #####      | 1,349,500.00 | 100%                 | 1            | #####      | 1,349,500.00 | 100% | 1       | #####                | 1,349,500.00 |  |  |  |  |  |
| 12                | 12.00.00 | SITE RESTORATION                                                                                                                               |                   |         |            | 1,548,341.55 |      |             | -          | 1,548,341.55 |              |         |            | 1,548,341.55 |                      |              |            | 1,548,341.55 |      |         |                      | 1,548,341.55 |  |  |  |  |  |
|                   | 12.01.00 | Seeding                                                                                                                                        | SF                | 240,000 | 0.43       | 103,341.55   | 100% | 240,000     | 0.43       | 103,341.55   | 100%         | 240,000 | 0.43       | 103,341.55   | 100%                 | 240,000      | 0.43       | 103,341.55   | 100% | 240,000 | 0.43                 | 103,341.55   |  |  |  |  |  |
|                   | 12.02.00 | Fencing                                                                                                                                        | LF                | 600     | 75.00      | 45,000.00    | 100% | 600         | 75.00      | 45,000.00    | 100%         | 600     | 75.00      | 45,000.00    | 100%                 | 600          | 75.00      | 45,000.00    | 100% | 600     | 75.00                | 45,000.00    |  |  |  |  |  |
|                   | 12.03.00 | Best Management Practices                                                                                                                      | LS                | 1       | 800,000.00 | 800,000.00   | 100% | 1           | 800,000.00 | 800,000.00   | 100%         | 1       | 800,000.00 | 800,000.00   | 100%                 | 1            | 800,000.00 | 800,000.00   | 100% | 1       | 800,000.00           | 800,000.00   |  |  |  |  |  |
|                   | 12.04.00 | Rock Check Dams                                                                                                                                | LS                | 1       | 300,000.00 | 300,000.00   | 100% | 1           | 300,000.00 | 300,000.00   | 100%         | 1       | 300,000.00 | 300,000.00   | 100%                 | 1            | 300,000.00 | 300,000.00   | 100% | 1       | 300,000.00           | 300,000.00   |  |  |  |  |  |
|                   | 12.05.00 | Drainage - Inlets, Culverts                                                                                                                    | LS                | 1       | 300,000.00 | 300,000.00   | 100% | 1           | 300,000.00 | 300,000.00   | 100%         | 1       | 300,000.00 | 300,000.00   | 100%                 | 1            | 300,000.00 | 300,000.00   | 100% | 1       | 300,000.00           | 300,000.00   |  |  |  |  |  |
| 15                | 15.00.00 | ALLOWANCE FOR UNLISTED ITEMS                                                                                                                   |                   |         |            | 6,595,285.47 |      |             | -          | 6,860,070.34 |              |         |            | 6,762,177.90 |                      |              |            | 6,762,177.90 |      |         |                      | 6,929,070.34 |  |  |  |  |  |
|                   | 15.01.00 | Allowance for Unlisted Items                                                                                                                   | %                 |         | 5%         | 6,595,285.47 | 100% |             | 5%         | -            | 6,860,070.34 | 100%    |            | 5%           | -                    | 6,762,177.90 | 100%       |              | 5%   | -       | 6,929,070.34         | 100%         |  |  |  |  |  |
| Total Direct Cost |          |                                                                                                                                                |                   |         |            | 138,500,995  |      | 144,061,477 |            |              |              |         |            |              | 142,005,736          |              |            |              |      |         |                      | 145,510,477  |  |  |  |  |  |

DIRECT COST LEVEL 2 SUMMARY

|      |          |                                                              | 30% Cost Estimate |           |            |               | F&D +25% |           |            | Transitions Offsite |      |           | Transitions +25% |               |      |           |            |               |
|------|----------|--------------------------------------------------------------|-------------------|-----------|------------|---------------|----------|-----------|------------|---------------------|------|-----------|------------------|---------------|------|-----------|------------|---------------|
| Item | Sub Item | Description                                                  | UoM               | Qty       | Unit Rate  | Total         | ADJ      | Qty       | Unit Rate  | Total               | ADJ  | Qty       | Unit Rate        | Total         | ADJ  | Qty       | Unit Rate  | Total         |
| 01   | 01.00.00 | PRECONSTRUCTION ACTIVITIES                                   |                   |           |            | 3,698,373.21  |          |           |            | 3,698,373.21        |      |           |                  |               |      |           |            | 3,698,373.21  |
|      | 01.01.00 | Demolition Work                                              | LS                | -         |            | Elsewhere     |          |           |            |                     |      |           |                  |               |      |           |            |               |
|      | 01.02.00 | Clearing and Grubbing                                        | ACRE              | 27        | 10,250.26  | 276,757.01    | 100%     | 27        | 10,250.26  | 276,757.01          | 100% | 27        | 10,250.26        | 276,757.01    | 100% | 27        | 10,250.26  | 276,757.01    |
|      | 01.03.00 | Reservoir Clearing                                           | ACRE              | -         |            | -             | 100%     | -         |            | -                   | 100% | -         |                  | -             | 100% | -         |            | -             |
|      | 01.04.00 | Erosion and Sediment Control                                 | ACRE              | 27        | 108,235.91 | 2,922,369.57  | 100%     | 27        | 108,235.91 | 2,922,369.57        | 100% | 27        | 108,235.91       | 2,922,369.57  | 100% | 27        | 108,235.91 | 2,922,369.57  |
|      | 01.05.00 | Developing haul routes - Haul routes inside reservoir        | ACRES             | 22        | 11,150.62  | 245,313.55    | 100%     | 22        | 11,150.62  | 245,313.55          | 100% | 22        | 11,150.62        | 245,313.55    | 100% | 22        | 11,150.62  | 245,313.55    |
|      | 01.06.00 | Developing haul routes - Haul routes outside reservoir       | ACRES             | 15        | 11,150.62  | 167,259.24    | 100%     | 15        | 11,150.62  | 167,259.24          | 100% | 15        | 11,150.62        | 167,259.24    | 100% | 15        | 11,150.62  | 167,259.24    |
|      | 01.07.00 | Developing Stockpile and Staging Areas                       | ACRES             | 5         | 17,334.77  | 86,673.85     | 100%     | 5         | 17,334.77  | 86,673.85           | 100% | 5         | 17,334.77        | 86,673.85     | 100% | 5         | 17,334.77  | 86,673.85     |
| 02   | 02.00.00 | COFFERDAM                                                    |                   |           |            | 5,981,191.05  |          |           |            | 5,981,191.05        |      |           |                  |               |      |           |            | 5,981,191.05  |
|      | 02.01.00 | Cofferdam Excavation                                         | BCY               | 189,100   | 15.99      | 3,024,380.94  | 100%     | 189,100   | 15.99      | 3,024,380.94        | 100% | 189,100   | 15.99            | 3,024,380.94  | 100% | 189,100   | 15.99      | 3,024,380.94  |
|      | 02.02.00 | Cofferdam - Zone 6                                           | ECY               | 48,600    | 12.01      | 583,736.15    | 100%     | 48,600    | 12.01      | 583,736.15          | 100% | 48,600    | 12.01            | 583,736.15    | 100% | 48,600    | 12.01      | 583,736.15    |
|      | 02.03.00 | Cofferdam - Zone 9                                           | ECY               | 94,100    | 13.42      | 1,263,073.96  | 100%     | 94,100    | 13.42      | 1,263,073.96        | 100% | 94,100    | 13.42            | 1,263,073.96  | 100% | 94,100    | 13.42      | 1,263,073.96  |
|      | 02.04.00 | Cofferdam - Cutoff Wall                                      | SF                | 24,000    | 40.00      | 960,000.00    | 100%     | 24,000    | 40.00      | 960,000.00          | 100% | 24,000    | 40.00            | 960,000.00    | 100% | 24,000    | 40.00      | 960,000.00    |
|      | 02.05.00 | Cofferdam - Dewatering Allowance                             | LS                | 1         | 150,000.00 | 150,000.00    | 100%     | 1         | 150,000.00 | 150,000.00          | 100% | 1         | 150,000.00       | 150,000.00    | 100% | 1         | 150,000.00 | 150,000.00    |
| 04   | 04.00.00 | FOUNDATION EXCAVATION                                        |                   |           |            | 6,790,031.25  |          |           |            | 6,790,031.25        |      |           |                  |               |      |           |            | 6,790,031.25  |
|      | 04.01.00 | Topsoil Salvage                                              | BCY               | 58,000    | 6.11       | 354,478.21    | 100%     | 58,000    | 6.11       | 354,478.21          | 100% | 58,000    | 6.11             | 354,478.21    | 100% | 58,000    | 6.11       | 354,478.21    |
|      | 04.02.00 | Drill and Shoot Foundation                                   | BCY               | 41,700    | 14.86      | 619,756.66    | 100%     | 41,700    | 14.86      | 619,756.66          | 100% | 41,700    | 14.86            | 619,756.66    | 100% | 41,700    | 14.86      | 619,756.66    |
|      | 04.03.00 | Dam Foundation Excavation                                    | BCY               | 417,000   | 11.64      | 4,855,796.38  | 100%     | 417,000   | 11.64      | 4,855,796.38        | 100% | 417,000   | 11.64            | 4,855,796.38  | 100% | 417,000   | 11.64      | 4,855,796.38  |
|      | 04.05.00 | Dewatering allowance                                         | Months            | 12        | 80,000.00  | 960,000.00    | 100%     | 12        | 80,000.00  | 960,000.00          | 100% | 12        | 80,000.00        | 960,000.00    | 100% | 12        | 80,000.00  | 960,000.00    |
| 05   | 05.00.00 | FOUNDATION PREPARATION - BENEATH CORE                        |                   |           |            | 3,815,442.65  |          |           |            | 3,815,442.65        |      |           |                  |               |      |           |            | 3,815,442.65  |
|      | 05.01.00 | Initial Foundation Cleaning - Core                           | SY                | 9,500     | 26.63      | 252,991.37    | 100%     | 9,500     | 26.63      | 252,991.37          | 100% | 9,500     | 26.63            | 252,991.37    | 100% | 9,500     | 26.63      | 252,991.37    |
|      | 05.02.00 | Final Foundation Cleaning - Core                             | SY                | 9,500     | 35.10      | 333,488.62    | 100%     | 9,500     | 35.10      | 333,488.62          | 100% | 9,500     | 35.10            | 333,488.62    | 100% | 9,500     | 35.10      | 333,488.62    |
|      | 05.03.00 | Dental Excavation                                            | CY                | 2,900     | 26.60      | 77,144.38     | 100%     | 2,900     | 26.60      | 77,144.38           | 100% | 2,900     | 26.60            | 77,144.38     | 100% | 2,900     | 26.60      | 77,144.38     |
|      | 05.04.00 | Dental Concrete                                              | CY                | 2,900     | 529.67     | 1,536,052.63  | 100%     | 2,900     | 529.67     | 1,536,052.63        | 100% | 2,900     | 529.67           | 1,536,052.63  | 100% | 2,900     | 529.67     | 1,536,052.63  |
|      | 05.05.00 | Backfill Concrete                                            | CY                | 2,150     | 408.03     | 877,271.53    | 100%     | 2,150     | 408.03     | 877,271.53          | 100% | 2,150     | 408.03           | 877,271.53    | 100% | 2,150     | 408.03     | 877,271.53    |
|      | 05.06.00 | Shaping Excavations                                          | CY                | 200       | 48.22      | 9,643.05      | 100%     | 200       | 48.22      | 9,643.05            | 100% | 200       | 48.22            | 9,643.05      | 100% | 200       | 48.22      | 9,643.05      |
|      | 05.07.00 | Slush Grout                                                  | Sacks             | 2,850     | 255.74     | 728,851.07    | 100%     | 2,850     | 255.74     | 728,851.07          | 100% | 2,850     | 255.74           | 728,851.07    | 100% | 2,850     | 255.74     | 728,851.07    |
| 06   | 06.00.00 | GROUTING                                                     |                   |           |            | 23,732,859.84 |          |           |            | 23,732,859.84       |      |           |                  |               |      |           |            | 23,732,859.84 |
|      | 06.01.00 | Grout Cap                                                    | CY                | 2,950     | 1,729.72   | 5,102,668.68  | 100%     | 2,950     | 1,729.72   | 5,102,668.68        | 100% | 2,950     | 1,729.72         | 5,102,668.68  | 100% | 2,950     | 1,729.72   | 5,102,668.68  |
|      | 06.02.00 | Grout Cap Anchors                                            | LF                | 2,040     | 180.29     | 367,801.57    | 100%     | 2,040     | 180.29     | 367,801.57          | 100% | 2,040     | 180.29           | 367,801.57    | 100% | 2,040     | 180.29     | 367,801.57    |
|      | 06.03.00 | Grout Cut Off Wall                                           | CY                | -         |            | -             | 100%     | -         |            | -                   | 100% | -         |                  | -             | 100% | -         |            | -             |
|      | 06.04.00 | Curtain Grouting - Includes Stich and Fans                   | LF                | 79,700    | 224.21     | 17,869,615.00 | 100%     | 79,700    | 224.21     | 17,869,615.00       | 100% | 79,700    | 224.21           | 17,869,615.00 | 100% | 79,700    | 224.21     | 17,869,615.00 |
|      | 06.05.00 | Consolidation Grouting                                       | LF                | -         |            | -             | 100%     | -         |            | -                   | 100% | -         |                  | -             | 100% | -         |            | -             |
|      | 06.06.00 | Type III Cement                                              | Tons              | 1,428     | 275.00     | 392,774.59    | 100%     | 1,428     | 275.00     | 392,774.59          | 100% | 1,428     | 275.00           | 392,774.59    | 100% | 1,428     | 275.00     | 392,774.59    |
| 07   | 07.00.00 | FOUNDATION PREPARATION - BENEATH SHELL                       |                   |           |            | 385,745.78    |          |           |            | 385,745.78          |      |           |                  |               |      |           |            | 385,745.78    |
|      | 07.01.00 | Foundation Cleaning - Shell                                  | SY                | 94,000    | 4.10       | 385,745.78    | 100%     | 94,000    | 4.10       | 385,745.78          | 100% | 94,000    | 4.10             | 385,745.78    | 100% | 94,000    | 4.10       | 385,745.78    |
| 08   | 08.00.00 | FOUNDATION DRAINAGE                                          |                   |           |            | 179,397.77    |          |           |            | 179,397.77          |      |           |                  |               |      |           |            | 179,397.77    |
|      | 08.01.00 | Furnish and Install Foundation Drain Pipe                    | LF                | 350       | 277.94     | 97,279.82     | 100%     | 350       | 277.94     | 97,279.82           | 100% | 350       | 277.94           | 97,279.82     | 100% | 350       | 277.94     | 97,279.82     |
|      | 08.02.00 | Furnish and Install Foundation Drain Manholes                | EA                | 2         | 20,529.49  | 41,058.98     | 100%     | 2         | 20,529.49  | 41,058.98           | 100% | 2         | 20,529.49        | 41,058.98     | 100% | 2         | 20,529.49  | 41,058.98     |
|      | 08.03.00 | Furnish and Install Inspection Well                          | EA                | 2         | 20,529.49  | 41,058.98     | 100%     | 2         | 20,529.49  | 41,058.98           | 100% | 2         | 20,529.49        | 41,058.98     | 100% | 2         | 20,529.49  | 41,058.98     |
| 09   | 09.00.00 | ROCK BORROW AREA - DEVELOP, PROCESSING, AND RESTORATION      |                   |           |            | 32,582,141.68 |          |           |            | 32,582,141.68       |      |           |                  |               |      |           |            | 35,119,434.94 |
|      | 09.01.00 | Strip/Overburden/Waste to Stockpile                          | BCY               | 589,900   | 8.98       | 5,295,697.41  | 100%     | 589,900   | 8.98       | 5,295,697.41        | 100% | 589,900   | 8.98             | 5,295,697.41  | 100% | 589,900   | 8.98       | 5,295,697.41  |
|      | 09.02.00 | Drill, Blast, Excavate to Crusher and Riprap Process         | BCY               | 1,922,299 | 6.82       | 13,117,982.99 | 100%     | 1,922,299 | 6.82       | 13,117,982.99       | 100% | 1,922,299 | 6.82             | 13,117,982.99 | 100% | 1,922,299 | 6.82       | 13,117,982.99 |
|      | 09.03.00 | Zone 4A, 4B, Zone 7A Processing                              | ECY               | 160,700   | 32.00      | 5,142,400.00  | 100%     | 160,700   | 32.00      | 5,142,400.00        | 100% | 160,700   | 32.00            | 5,142,400.00  | 125% | 200,875   | 32.00      | 6,428,000.00  |
|      | 09.04.00 | Riprap and Groin Processing                                  | ECY               | 67,500    | 30.00      | 2,025,000.00  | 100%     | 67,500    | 30.00      | 2,025,000.00        | 100% | 67,500    | 30.00            | 2,025,000.00  | 100% | 67,500    | 30.00      | 2,025,000.00  |
|      | 09.05.00 | Removal of Excess Sand/Siltstone                             | BCY               | 377,600   | 13.26      | 5,006,773.06  | 100%     | 377,600   | 13.26      | 5,006,773.06        | 100% | 377,600   | 13.26            | 5,006,773.06  | 125% | 472,000   | 13.26      | 6,258,466.33  |
|      | 09.06.00 | Replace Overburden from Stockpile                            | ECY               | 106,000   | 6.71       | 711,030.18    | 100%     | 106,000   | 6.71       | 711,030.18          | 100% | 106,000   | 6.71             | 711,030.18    | 100% | 106,000   | 6.71       | 711,030.18    |
|      | 09.07.00 | Topsoil Replacement                                          | ECY               | 58,000    | 9.96       | 577,951.98    | 100%     | 58,000    | 9.96       | 577,951.98          | 100% | 58,000    | 9.96             | 577,951.98    | 100% | 58,000    | 9.96       | 577,951.98    |
|      | 09.08.00 | Seeding                                                      | SF                | 1,638,000 | 0.43       | 705,306.05    | 100%     | 1,638,000 | 0.43       | 705,306.05          | 100% | 1,638,000 | 0.43             | 705,306.05    | 100% | 1,638,000 | 0.43       | 705,306.05    |
| 10   | 10.00.00 | EMBANKMENT                                                   |                   |           |            | 51,842,684.59 |          |           |            | 56,905,999.41       |      |           |                  |               |      |           |            | 53,180,417.33 |
|      | 10.01.00 | Furnish and Install Zone 1 - Core                            | ECY               | 276,900   | 25.76      | 7,132,420.31  | 100%     | 276,900   | 25.76      | 7,132,420.31        | 100% | 276,900   | 25.76            | 7,132,420.31  | 100% | 276,900   | 25.76      | 7,132,420.31  |
|      | 10.02.00 | Purchase, Haul and Place - Zone 2 - Filter                   | ECY               | 76,000    | 154.55     | 11,745,778.31 | 125%     | 95,000    | 154.55     | 14,682,222.88       | 100% | 76,000    | 154.55           | 11,745,778.31 | 100% | 76,000    | 154.55     | 11,745,778.31 |
|      | 10.03.00 | Purchase, Haul and Place - Zone 3 - Drain                    | ECY               | 57,900    | 146.93     | 8,507,480.95  | 125%     | 72,375    | 146.93     | 10,634,351.19       | 100% | 57,900    | 146.93           | 8,507,480.95  | 100% | 57,900    | 146.93     | 8,507,480.95  |
|      | 10.04.00 | Produce, Haul and Place - Zone 4A - Fine Transition          | ECY               | 47,000    | 35.38      | 1,662,653.28  | 100%     | 47,000    | 35.38      | 1,662,653.28        | 100% | 47,000    | 145.00           | 6,815,000.00  | 125% | 58,750    | 35.38      | 2,078,316.60  |
|      | 10.05.00 | Produce, Haul and Place - Zone 4B - Coarse Transition        | ECY               | 113,700   | 32.44      | 3,688,277.66  | 100%     | 113,700   | 32.44      | 3,688,277.66        | 100% | 113,700   | 145.00           | 16,486,500.00 | 125% | 142,125   | 32.44      | 4,610,347.08  |
|      | 10.06.00 | Produce, Haul and Place - Zone 8 - Fine Transition - Saddles | ECY               | -         |            | -             | 100%     | -         |            | -                   | 100% | -         |                  | -             | 100% | -         |            | -             |
|      | 10.07.00 | Furnish and Install Zone 5&6 Sand/Siltstone - Rockfill       | ECY               | 1,955,400 | 8.84       | 17,286,811.89 | 100%     | 1,955,400 | 8.84       | 17,286,811.89       | 100% | 1,955,400 | 8.84             | 17,286,811.89 | 100% | 1,955,400 | 8.84       | 17,286,811.89 |
|      | 10.08.00 | Furnish and Install Zone - 9 Random                          | ECY               | -         |            | -             | 100%     | -         |            | -                   | 100% | -         |                  | -             | 100% | -         |            | -             |
|      | 10.09.00 | Produce, Haul and Place - Zone 7A - Bedding - Saddles        | ECY               | -         |            | -             | 100%     | -         |            | -                   | 100% | -         |                  | -             | 100% | -         |            | -             |
|      | 10.10.00 | Produce, Haul and Place - Zone 7B - Riprap                   | ECY               | 67,500    | 26.95      | 1,819,262.18  | 100%     | 67,500    | 26.95      | 1,819,262.18        | 100% | 67,500    | 26.95            | 1,819,262.18  | 100% | 67,500    | 26.95      | 1,819,262.18  |
|      | 10.11.00 | Produce, Haul and Place - Groin Protection - Saddles         | ECY               | -         |            | -             | 100%     | -         |            | -                   | 100% | -         |                  | -             | 100% | -         |            | -             |

DIRECT COST LEVEL 2 SUMMARY

|                   |          |                                                                                                                                                |     | 30% Cost Estimate |            |              | ADJ  |
|-------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------------|------------|--------------|------|
| Item              | Sub Item | Description                                                                                                                                    | UoM | Qty               | Unit Rate  | Total        |      |
| 11                | 11.00.00 | INSTRUMENTATION AND TELEMETRY                                                                                                                  |     |                   |            | 1,349,500.00 |      |
|                   | 11.01.00 | Instrumentation/Telemetry: Instrumentation/Telemetry (piezometers, settlement monitors (survey monuments), seismographs, and slope indicators) | LS  | 1                 | #####      | 1,349,500.00 | 100% |
| 12                | 12.00.00 | SITE RESTORATION                                                                                                                               |     |                   |            | 1,548,341.55 |      |
|                   | 12.01.00 | Seeding                                                                                                                                        | SF  | 240,000           | 0.43       | 103,341.55   | 100% |
|                   | 12.02.00 | Fencing                                                                                                                                        | LF  | 600               | 75.00      | 45,000.00    | 100% |
|                   | 12.03.00 | Best Management Practices                                                                                                                      | LS  | 1                 | 800,000.00 | 800,000.00   | 100% |
|                   | 12.04.00 | Rock Check Dams                                                                                                                                | LS  | 1                 | 300,000.00 | 300,000.00   | 100% |
|                   | 12.05.00 | Drainage - Inlets, Culverts                                                                                                                    | LS  | 1                 | 300,000.00 | 300,000.00   | 100% |
| 15                | 15.00.00 | ALLOWANCE FOR UNLISTED ITEMS                                                                                                                   |     |                   |            | 6,595,285.47 |      |
|                   | 15.01.00 | Allowance for Unlisted Items                                                                                                                   | %   | 5%                |            | 6,595,285.47 | 100% |
| Total Direct Cost |          |                                                                                                                                                |     |                   |            | 138,500,995  |      |

| F&D +25% |            |              | ADJ  |
|----------|------------|--------------|------|
| Qty      | Unit Rate  | Total        |      |
|          | -          | 1,349,500.00 |      |
| 1        | #####      | 1,349,500.00 | 100% |
|          | -          | 1,548,341.55 |      |
| 240,000  | 0.43       | 103,341.55   | 100% |
| 600      | 75.00      | 45,000.00    | 100% |
| 1        | 800,000.00 | 800,000.00   | 100% |
| 1        | 300,000.00 | 300,000.00   | 100% |
| 1        | 300,000.00 | 300,000.00   | 100% |
|          | -          | 6,848,451.21 |      |
| 5%       | -          | 6,848,451.21 | 100% |
|          |            | 143,817,475  |      |

| Transitions Offsite |            |              | ADJ  |
|---------------------|------------|--------------|------|
| Qty                 | Unit Rate  | Total        |      |
|                     |            | 1,349,500.00 |      |
| 1                   | #####      | 1,349,500.00 | 100% |
|                     |            | 1,548,341.55 |      |
| 240,000             | 0.43       | 103,341.55   | 100% |
| 600                 | 75.00      | 45,000.00    | 100% |
| 1                   | 800,000.00 | 800,000.00   | 100% |
| 1                   | 300,000.00 | 300,000.00   | 100% |
| 1                   | 300,000.00 | 300,000.00   | 100% |
|                     | -          | 7,492,813.92 |      |
| 5%                  | -          | 7,492,813.92 | 100% |
|                     |            | 157,349,092  |      |

| Transitions +25% |            |              | ADJ  |
|------------------|------------|--------------|------|
| Qty              | Unit Rate  | Total        |      |
|                  |            | 1,349,500.00 |      |
| 1                | #####      | 1,349,500.00 | 100% |
|                  |            | 1,548,341.55 |      |
| 240,000          | 0.43       | 103,341.55   | 100% |
| 600              | 75.00      | 45,000.00    | 100% |
| 1                | 800,000.00 | 800,000.00   | 100% |
| 1                | 300,000.00 | 300,000.00   | 100% |
| 1                | 300,000.00 | 300,000.00   | 100% |
|                  |            | 6,789,036.77 |      |
| 5%               |            | 6,789,036.77 | 100% |
|                  |            | 142,569,772  |      |

Sites Reservoir  
Saddle Dams and Spillway Contingency Estimates  
Sites, CA

Cost Estimate  
AACEI Class 3  
February 27, 2025

| Construction Cost Estimate                         |           |              |       |             |                |                |                |             |
|----------------------------------------------------|-----------|--------------|-------|-------------|----------------|----------------|----------------|-------------|
|                                                    |           |              |       | 30% Design  | 20' Excavation | 25' Excavation | 30' Excavation | Landslide   |
| Total Direct Cost (\$)                             |           |              |       | 301,621,384 | 315,528,249    | 329,435,114    | 343,341,979    | 310,634,863 |
| TOTAL DIRECT COST BEFORE CONTRACTOR INDIRECT COSTS |           |              |       | 301,621,384 | 315,528,249    | 329,435,114    | 343,341,979    | 310,634,863 |
| Mobilization                                       | 5.0%      |              |       | 15,081,069  | 15,776,412     | 16,471,756     | 17,167,099     | 15,531,743  |
| Field Overhead Costs (GC&GR)                       | 17.0%     |              |       | 53,839,417  | 56,321,792     | 58,804,168     | 61,286,543     | 55,448,323  |
| Insurance                                          | 2.0%      |              |       | 7,410,837   | 7,752,529      | 8,094,221      | 8,435,912      | 7,632,299   |
| Bonds                                              | 0.6%      |              |       | 2,267,716   | 2,372,274      | 2,476,832      | 2,581,389      | 2,335,483   |
| Total Contractor Indirect Costs                    |           |              |       | 78,599,039  | 82,223,007     | 85,846,977     | 89,470,943     | 80,947,848  |
| TOTAL CONTACTOR COSTS                              |           |              |       | 380,220,423 | 397,751,256    | 415,282,091    | 432,812,922    | 391,582,711 |
| Home Office Overhead (G&A)                         | 6.5%      |              |       | 24,714,327  | 25,853,832     | 26,993,336     | 28,132,840     | 25,452,876  |
| GC Profit                                          | 10.0%     |              |       | 40,493,475  | 42,360,509     | 44,227,543     | 46,094,576     | 41,703,559  |
| Total Contractor Overhead and Profit               |           |              |       | 65,207,802  | 68,214,341     | 71,220,879     | 74,227,416     | 67,156,435  |
| TOTAL CONSTRUCTION COST BEFORE CONTINGENCIES       |           |              |       | 445,428,225 | 465,965,597    | 486,502,970    | 507,040,338    | 458,739,146 |
| Contingencies                                      |           |              |       |             |                |                |                |             |
| Design Contingencies                               | 10.0%     |              |       | 44,542,822  | 46,596,560     | 48,650,297     | 50,704,034     | 45,873,915  |
| Construction Contingencies                         | 15.0%     |              |       | 73,495,657  | 76,884,324     | 80,272,990     | 83,661,656     | 75,691,959  |
| Total Contingency Allowance                        |           |              |       | 118,038,479 | 123,480,884    | 128,923,287    | 134,365,690    | 121,565,874 |
| TOTAL COST BEFORE ESCALATION                       |           |              |       | 563,466,704 | 589,446,481    | 615,426,257    | 641,406,028    | 580,305,020 |
| Escalation to Report Date                          | 3/31/2024 | Not included | 0%    | -           | -              | -              | -              | -           |
| RECOMMENDED CONSTRUCTION BUDGET                    |           |              |       | 563,466,704 | 589,446,481    | 615,426,257    | 641,406,028    | 580,305,020 |
| Non-Contract Costs                                 |           |              | 17.0% | 95,789,340  | 100,205,902    | 104,622,464    | 109,039,025    | 98,651,853  |
| TOTAL ESTIMATE                                     |           |              |       | 659,256,043 | 689,652,383    | 720,048,720    | 750,445,053    | 678,956,874 |
| ESTIMATE DIFFERENCE                                |           |              |       | -           | 30,396,339     | 60,792,677     | 91,189,009     | 19,700,830  |

**Sites Reservoir  
Saddle Dams and Spillway Contingency Estimates  
Sites, CA**

**Cost Estimate  
AACEI Class 3  
February 27, 2025**

| Construction Cost Estimate                         |           |              |    |             |             |             |             |             |
|----------------------------------------------------|-----------|--------------|----|-------------|-------------|-------------|-------------|-------------|
|                                                    |           |              |    | 30% Design  | Grout Holes | Rim Grout   | Core Haul   | Core Slope  |
| Total Direct Cost (\$)                             |           |              |    | 301,621,384 | 317,234,855 | 305,548,384 | 313,297,676 | 318,878,892 |
| TOTAL DIRECT COST BEFORE CONTRACTOR INDIRECT COSTS |           |              |    | 301,621,384 | 317,234,855 | 305,548,384 | 313,297,676 | 318,878,892 |
| Mobilization                                       | 5.0%      |              |    | 15,081,069  | 15,861,743  | 15,277,419  | 15,664,884  | 15,943,945  |
| Field Overhead Costs (GC&GR)                       | 17.0%     |              |    | 53,839,417  | 56,626,422  | 54,540,386  | 55,923,635  | 56,919,882  |
| Insurance                                          | 2.0%      |              |    | 7,410,837   | 7,794,460   | 7,507,324   | 7,697,724   | 7,834,854   |
| Bonds                                              | 0.6%      |              |    | 2,267,716   | 2,385,105   | 2,297,241   | 2,355,504   | 2,397,465   |
| Total Contractor Indirect Costs                    |           |              |    | 78,599,039  | 82,667,730  | 79,622,370  | 81,641,747  | 83,096,146  |
| TOTAL CONTACTOR COSTS                              |           |              |    | 380,220,423 | 399,902,585 | 385,170,754 | 394,939,423 | 401,975,038 |
| Home Office Overhead (G&A)                         | 6.5%      |              |    | 24,714,327  | 25,993,668  | 25,036,099  | 25,671,062  | 26,128,377  |
| GC Profit                                          | 10.0%     |              |    | 40,493,475  | 42,589,625  | 41,020,685  | 42,061,048  | 42,810,341  |
| Total Contractor Overhead and Profit               |           |              |    | 65,207,802  | 68,583,293  | 66,056,784  | 67,732,110  | 68,938,718  |
| TOTAL CONSTRUCTION COST BEFORE CONTINGENCIES       |           |              |    | 445,428,225 | 468,485,878 | 451,227,538 | 462,671,533 | 470,913,756 |
| Contingencies                                      |           |              |    |             |             |             |             |             |
| Design Contingencies                               | 10.0%     |              |    | 44,542,822  | 46,848,588  | 45,122,754  | 46,267,153  | 47,091,376  |
| Construction Contingencies                         | 15.0%     |              |    | 73,495,657  | 77,300,170  | 74,452,544  | 76,340,803  | 77,700,770  |
| Total Contingency Allowance                        |           |              |    | 118,038,479 | 124,148,758 | 119,575,298 | 122,607,956 | 124,792,146 |
| TOTAL COST BEFORE ESCALATION                       |           |              |    | 563,466,704 | 592,634,636 | 570,802,836 | 585,279,489 | 595,705,902 |
| Escalation to Report Date                          | 3/31/2024 | Not included | 0% | -           | -           | -           | -           | -           |
| RECOMMENDED CONSTRUCTION BUDGET                    |           |              |    | 563,466,704 | 592,634,636 | 570,802,836 | 585,279,489 | 595,705,902 |
| Non-Contract Costs                                 | 17.0%     |              |    | 95,789,340  | 100,747,888 | 97,036,482  | 99,497,513  | 101,270,003 |
| TOTAL ESTIMATE                                     |           |              |    | 659,256,043 | 693,382,524 | 667,839,318 | 684,777,002 | 696,975,905 |
| ESTIMATE DIFFERENCE                                |           |              |    | -           | 34,126,480  | 8,583,274   | 25,520,958  | 37,719,862  |

Sites Reservoir  
Saddle Dams and Spillway Contingency Estimates  
Sites, CA

Cost Estimate  
AACEI Class 3  
February 27, 2025

| Construction Cost Estimate                         |           |              |    | 30% Design  | Spillway Volume | Not Used    | Borrow Waste - 15% | Borrow Waste - 30% |
|----------------------------------------------------|-----------|--------------|----|-------------|-----------------|-------------|--------------------|--------------------|
| Total Direct Cost (\$)                             |           |              |    | 301,621,384 | 308,177,192     | 301,621,384 | 327,498,771        | 353,376,159        |
| TOTAL DIRECT COST BEFORE CONTRACTOR INDIRECT COSTS |           |              |    | 301,621,384 | 308,177,192     | 301,621,384 | 327,498,771        | 353,376,159        |
| Mobilization                                       | 5.0%      |              |    | 15,081,069  | 15,408,860      | 15,081,069  | 16,374,939         | 17,668,808         |
| Field Overhead Costs (GC&GR)                       | 17.0%     |              |    | 53,839,417  | 55,009,629      | 53,839,417  | 58,458,531         | 63,077,644         |
| Insurance                                          | 2.0%      |              |    | 7,410,837   | 7,571,914       | 7,410,837   | 8,046,645          | 8,682,452          |
| Bonds                                              | 0.6%      |              |    | 2,267,716   | 2,317,006       | 2,267,716   | 2,462,273          | 2,656,830          |
| Total Contractor Indirect Costs                    |           |              |    | 78,599,039  | 80,307,409      | 78,599,039  | 85,342,388         | 92,085,734         |
| TOTAL CONTACTOR COSTS                              |           |              |    | 380,220,423 | 388,484,601     | 380,220,423 | 412,841,159        | 445,461,893        |
| Home Office Overhead (G&A)                         | 6.5%      |              |    | 24,714,327  | 25,251,499      | 24,714,327  | 26,834,675         | 28,955,023         |
| GC Profit                                          | 10.0%     |              |    | 40,493,475  | 41,373,610      | 40,493,475  | 43,967,583         | 47,441,692         |
| Total Contractor Overhead and Profit               |           |              |    | 65,207,802  | 66,625,109      | 65,207,802  | 70,802,258         | 76,396,715         |
| TOTAL CONSTRUCTION COST BEFORE CONTINGENCIES       |           |              |    | 445,428,225 | 455,109,710     | 445,428,225 | 483,643,417        | 521,858,608        |
| Contingencies                                      |           |              |    |             |                 |             |                    |                    |
| Design Contingencies                               | 10.0%     |              |    | 44,542,822  | 45,510,971      | 44,542,822  | 48,364,342         | 52,185,861         |
| Construction Contingencies                         | 15.0%     |              |    | 73,495,657  | 75,093,102      | 73,495,657  | 79,801,164         | 86,106,670         |
| Total Contingency Allowance                        |           |              |    | 118,038,479 | 120,604,073     | 118,038,479 | 128,165,506        | 138,292,531        |
| TOTAL COST BEFORE ESCALATION                       |           |              |    | 563,466,704 | 575,713,783     | 563,466,704 | 611,808,923        | 660,151,139        |
| Escalation to Report Date                          | 3/31/2024 | Not included | 0% | -           | -               | -           | -                  | -                  |
| RECOMMENDED CONSTRUCTION BUDGET                    |           |              |    | 563,466,704 | 575,713,783     | 563,466,704 | 611,808,923        | 660,151,139        |
| Non-Contract Costs                                 | 17.0%     |              |    | 95,789,340  | 97,871,343      | 95,789,340  | 104,007,517        | 112,225,694        |
| TOTAL ESTIMATE                                     |           |              |    | 659,256,043 | 673,585,127     | 659,256,043 | 715,816,440        | 772,376,833        |
| ESTIMATE DIFFERENCE                                |           |              |    | -           | 14,329,083      | -           | 56,560,397         | 113,120,789        |

Sites Reservoir  
Saddle Dams and Spillway Contingency Estimates  
Sites, CA

Cost Estimate  
AACEI Class 3  
February 27, 2025

| Construction Cost Estimate                         |           |              |       | 30% Design  | F&D +25%    | Not Used    | Transitions +25% |
|----------------------------------------------------|-----------|--------------|-------|-------------|-------------|-------------|------------------|
| Total Direct Cost (\$)                             |           |              |       | 301,621,384 | 314,004,008 | 301,621,384 | 306,764,411      |
| TOTAL DIRECT COST BEFORE CONTRACTOR INDIRECT COSTS |           |              |       | 301,621,384 | 314,004,008 | 301,621,384 | 306,764,411      |
| Mobilization                                       | 5.0%      |              |       | 15,081,069  | 15,700,200  | 15,081,069  | 15,338,221       |
| Field Overhead Costs (GC&GR)                       | 17.0%     |              |       | 53,839,417  | 56,049,715  | 53,839,417  | 54,757,447       |
| Insurance                                          | 2.0%      |              |       | 7,410,837   | 7,715,078   | 7,410,837   | 7,537,202        |
| Bonds                                              | 0.6%      |              |       | 2,267,716   | 2,360,814   | 2,267,716   | 2,306,384        |
| Total Contractor Indirect Costs                    |           |              |       | 78,599,039  | 81,825,807  | 78,599,039  | 79,939,254       |
| TOTAL CONTACTOR COSTS                              |           |              |       | 380,220,423 | 395,829,815 | 380,220,423 | 386,703,665      |
| Home Office Overhead (G&A)                         | 6.5%      |              |       | 24,714,327  | 25,728,938  | 24,714,327  | 25,135,738       |
| GC Profit                                          | 10.0%     |              |       | 40,493,475  | 42,155,875  | 40,493,475  | 41,183,940       |
| Total Contractor Overhead and Profit               |           |              |       | 65,207,802  | 67,884,813  | 65,207,802  | 66,319,678       |
| TOTAL CONSTRUCTION COST BEFORE CONTINGENCIES       |           |              |       | 445,428,225 | 463,714,628 | 445,428,225 | 453,023,343      |
| Contingencies                                      |           |              |       |             |             |             |                  |
| Design Contingencies                               | 10.0%     |              |       | 44,542,822  | 46,371,463  | 44,542,822  | 45,302,334       |
| Construction Contingencies                         | 15.0%     |              |       | 73,495,657  | 76,512,914  | 73,495,657  | 74,748,852       |
| Total Contingency Allowance                        |           |              |       | 118,038,479 | 122,884,377 | 118,038,479 | 120,051,186      |
| TOTAL COST BEFORE ESCALATION                       |           |              |       | 563,466,704 | 586,599,005 | 563,466,704 | 573,074,529      |
| Escalation to Report Date                          | 3/31/2024 | Not included | 0%    | -           | -           | -           | -                |
| RECOMMENDED CONSTRUCTION BUDGET                    |           |              |       | 563,466,704 | 586,599,005 | 563,466,704 | 573,074,529      |
| Non-Contract Costs                                 |           |              | 17.0% | 95,789,340  | 99,721,831  | 95,789,340  | 97,422,670       |
| TOTAL ESTIMATE                                     |           |              |       | 659,256,043 | 686,320,836 | 659,256,043 | 670,497,199      |
| ESTIMATE DIFFERENCE                                |           |              |       | -           | 27,064,793  | -           | 11,241,156       |

DIRECT COST LEVEL 2 SUMMARY

| Item | Sub Item | Description                                                                                                                                    | UoM    | 30% Design |            |             | ADJ  | 20' Excavation |            |             | ADJ  | 25' Excavation |            |             | ADJ  | 30' Excavation |            |             |
|------|----------|------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------|------------|-------------|------|----------------|------------|-------------|------|----------------|------------|-------------|------|----------------|------------|-------------|
|      |          |                                                                                                                                                |        | Qty        | Unit Rate  | Total       |      | Qty            | Unit Rate  | Total       |      | Qty            | Unit Rate  | Total       |      | Qty            | Unit Rate  | Total       |
| 01   | 01.00.00 | PRECONSTRUCTION ACTIVITIES                                                                                                                     |        |            |            | 16,790,485  |      |                |            | 16,790,485  |      |                |            | 16,790,485  |      |                |            | 16,790,485  |
|      | 01.01.00 | Demolition Work                                                                                                                                | LS     | -          | -          | -           |      | -              | -          | -           |      | -              | -          | -           |      | -              | -          | -           |
|      | 01.02.00 | Clearing and Grubbing                                                                                                                          | ACRE   | 115        | 10,237.82  | 1,177,349   | 100% | 115            | 10,237.82  | 1,177,349   | 100% | 115            | 10,237.82  | 1,177,349   | 100% | 115            | 10,237.82  | 1,177,349   |
|      | 01.03.00 | Reservoir Clearing                                                                                                                             | ACRE   | -          | -          | -           | 100% | -              | -          | -           | 100% | -              | -          | -           | 100% | -              | -          | -           |
|      | 01.04.00 | Erosion and Sediment Control                                                                                                                   | ACRE   | 115        | 107,918.98 | 12,410,682  | 100% | 115            | 107,918.98 | 12,410,682  | 100% | 115            | 107,918.98 | 12,410,682  | 100% | 115            | 107,918.98 | 12,410,682  |
|      | 01.05.00 | Developing haul routes - Haul routes inside reservoir                                                                                          | ACRES  | 132        | 11,135.46  | 1,469,880   | 100% | 132            | 11,135.46  | 1,469,880   | 100% | 132            | 11,135.46  | 1,469,880   | 100% | 132            | 11,135.46  | 1,469,880   |
|      | 01.06.00 | Developing haul routes - Haul routes outside reservoir                                                                                         | ACRES  | 81         | 11,135.94  | 902,011     | 100% | 81             | 11,135.94  | 902,011     | 100% | 81             | 11,135.94  | 902,011     | 100% | 81             | 11,135.94  | 902,011     |
|      | 01.07.00 | Developing Stockpile and Staging Areas                                                                                                         | ACRES  | 48         | 17,303.36  | 830,561     | 100% | 48             | 17,303.36  | 830,561     | 100% | 48             | 17,303.36  | 830,561     | 100% | 48             | 17,303.36  | 830,561     |
| 04   | 04.00.00 | FOUNDATION EXCAVATION                                                                                                                          |        |            |            | 19,333,456  |      |                |            | 25,777,942  |      |                |            | 32,222,427  |      |                |            | 38,666,912  |
|      | 04.01.00 | Topsoil Salvage                                                                                                                                | BCY    | 238,000    | 6.23       | 1,482,363   | 133% | 317,333        | 6.23       | 1,976,485   | 167% | 396,667        | 6.23       | 2,470,606   | 200% | 476,000        | 6.23       | 2,964,727   |
|      | 04.02.00 | Drill and Shoot Foundation                                                                                                                     | BCY    | 67,775     | 14.96      | 1,013,783   | 133% | 90,367         | 14.96      | 1,351,710   | 167% | 112,958        | 14.96      | 1,689,638   | 200% | 135,550        | 14.96      | 2,027,565   |
|      | 04.03.00 | Dam Foundation Excavation                                                                                                                      | BCY    | 1,355,500  | 11.83      | 16,037,310  | 133% | 1,807,333      | 11.83      | 21,383,080  | 167% | 2,259,167      | 11.83      | 26,728,850  | 200% | 2,711,000      | 11.83      | 32,074,620  |
|      | 04.05.00 | Dewatering allowance                                                                                                                           | Months | 24         | 33,333.33  | 800,000     | 133% | 32             | 33,333.33  | 1,066,667   | 167% | 40             | 33,333.33  | 1,333,333   | 200% | 48             | 33,333.33  | 1,600,000   |
| 05   | 05.00.00 | FOUNDATION PREPARATION - BENEATH CORE                                                                                                          |        |            |            | 21,775,170  |      |                |            | 21,775,170  |      |                |            | 21,775,170  |      |                |            | 21,775,170  |
|      | 05.01.00 | Initial Foundation Cleaning - Core                                                                                                             | SY     | 65,400     | 25.67      | 1,678,943   | 100% | 65,400         | 25.67      | 1,678,943   | 100% | 65,400         | 25.67      | 1,678,943   | 100% | 65,400         | 25.67      | 1,678,943   |
|      | 05.02.00 | Final Foundation Cleaning - Core                                                                                                               | SY     | 81,750     | 34.32      | 2,805,904   | 100% | 81,750         | 34.32      | 2,805,904   | 100% | 81,750         | 34.32      | 2,805,904   | 100% | 81,750         | 34.32      | 2,805,904   |
|      | 05.03.00 | Dental Excavation                                                                                                                              | CY     | 8,850      | 25.06      | 221,790     | 100% | 8,850          | 25.06      | 221,790     | 100% | 8,850          | 25.06      | 221,790     | 100% | 8,850          | 25.06      | 221,790     |
|      | 05.04.00 | Dental Concrete                                                                                                                                | CY     | 8,850      | 529.27     | 4,684,064   | 100% | 8,850          | 529.27     | 4,684,064   | 100% | 8,850          | 529.27     | 4,684,064   | 100% | 8,850          | 529.27     | 4,684,064   |
|      | 05.05.00 | Backfill Concrete                                                                                                                              | CY     | 18,050     | 406.76     | 7,341,949   | 100% | 18,050         | 406.76     | 7,341,949   | 100% | 18,050         | 406.76     | 7,341,949   | 100% | 18,050         | 406.76     | 7,341,949   |
|      | 05.06.00 | Shaping Excavations                                                                                                                            | CY     | 1,350      | 28.57      | 38,572      | 100% | 1,350          | 28.57      | 38,572      | 100% | 1,350          | 28.57      | 38,572      | 100% | 1,350          | 28.57      | 38,572      |
|      | 05.07.00 | Slush Grout                                                                                                                                    | Sacks  | 19,650     | 254.65     | 5,003,948   | 100% | 19,650         | 254.65     | 5,003,948   | 100% | 19,650         | 254.65     | 5,003,948   | 100% | 19,650         | 254.65     | 5,003,948   |
| 06   | 06.00.00 | GROUTING                                                                                                                                       |        |            |            | 73,021,783  |      |                |            | 73,021,783  |      |                |            | 73,021,783  |      |                |            | 73,021,783  |
|      | 06.01.00 | Grout Cap                                                                                                                                      | CY     | -          | -          | -           | 100% | -              | -          | -           | 100% | -              | -          | -           | 100% | -              | -          | -           |
|      | 06.02.00 | Grout Cap Anchors                                                                                                                              | LF     | -          | -          | -           | 100% | -              | -          | -           | 100% | -              | -          | -           | 100% | -              | -          | -           |
|      | 06.03.00 | Grout Cut Off Wall                                                                                                                             | CY     | 5,865      | 601.19     | 3,525,995   | 100% | 5,865          | 601.19     | 3,525,995   | 100% | 5,865          | 601.19     | 3,525,995   | 100% | 5,865          | 601.19     | 3,525,995   |
|      | 06.04.00 | Curtain Grouting - Includes Stich and Fans                                                                                                     | LF     | 270,500    | 192.16     | 51,980,030  | 100% | 270,500        | 192.16     | 51,980,030  | 100% | 270,500        | 192.16     | 51,980,030  | 100% | 270,500        | 192.16     | 51,980,030  |
|      | 06.05.00 | Consolidation Grouting                                                                                                                         | LF     | 83,900     | 185.21     | 15,539,525  | 100% | 83,900         | 185.21     | 15,539,525  | 100% | 83,900         | 185.21     | 15,539,525  | 100% | 83,900         | 185.21     | 15,539,525  |
|      | 06.06.00 | Type III Cement                                                                                                                                | Tons   | 7,186      | 275.00     | 1,976,233   | 100% | 7,186          | 275.00     | 1,976,233   | 100% | 7,186          | 275.00     | 1,976,233   | 100% | 7,186          | 275.00     | 1,976,233   |
| 07   | 07.00.00 | FOUNDATION PREPARATION - BENEATH SHELL                                                                                                         |        |            |            | 1,228,672   |      |                |            | 1,228,672   |      |                |            | 1,228,672   |      |                |            | 1,228,672   |
|      | 07.01.00 | Foundation Cleaning - Shell                                                                                                                    | SY     | 308,100    | 3.99       | 1,228,672   | 100% | 308,100        | 3.99       | 1,228,672   | 100% | 308,100        | 3.99       | 1,228,672   | 100% | 308,100        | 3.99       | 1,228,672   |
| 08   | 08.00.00 | FOUNDATION DRAINAGE                                                                                                                            |        |            |            | 1,476,396   |      |                |            | 1,476,396   |      |                |            | 1,476,396   |      |                |            | 1,476,396   |
|      | 08.01.00 | Furnish and Install Foundation Drain Pipe                                                                                                      | LF     | 8,820      | 134.87     | 1,189,567   | 100% | 8,820          | 134.87     | 1,189,567   | 100% | 8,820          | 134.87     | 1,189,567   | 100% | 8,820          | 134.87     | 1,189,567   |
|      | 08.02.00 | Furnish and Install Foundation Drain Manholes                                                                                                  | EA     | 7          | 20,487.77  | 143,414     | 100% | 7              | 20,487.77  | 143,414     | 100% | 7              | 20,487.77  | 143,414     | 100% | 7              | 20,487.77  | 143,414     |
|      | 08.03.00 | Furnish and Install Inspection Well                                                                                                            | EA     | 7          | 20,487.77  | 143,414     | 100% | 7              | 20,487.77  | 143,414     | 100% | 7              | 20,487.77  | 143,414     | 100% | 7              | 20,487.77  | 143,414     |
| 09   | 09.00.00 | ROCK BORROW AREA - DEVELOP, PROCESSING, AND RESTORATION                                                                                        |        |            |            | 10,287,868  |      |                |            | 10,287,868  |      |                |            | 10,287,868  |      |                |            | 10,287,868  |
|      | 09.01.00 | Strip/Overburden/Waste to Stockpile                                                                                                            | BCY    | -          | -          | -           | 100% | -              | -          | -           | 100% | -              | -          | -           | 100% | -              | -          | -           |
|      | 09.02.00 | Drill, Blast, Excavate to Crusher and Riprap Process                                                                                           | BCY    | 150,300    | 9.71       | 1,460,149   | 100% | 150,300        | 9.71       | 1,460,149   | 100% | 150,300        | 9.71       | 1,460,149   | 100% | 150,300        | 9.71       | 1,460,149   |
|      | 09.03.00 | Zone 4A, 4B, Zone 7A Processing                                                                                                                | ECY    | 35,070     | 32.00      | 1,122,240   | 100% | 35,070         | 32.00      | 1,122,240   | 100% | 35,070         | 32.00      | 1,122,240   | 100% | 35,070         | 32.00      | 1,122,240   |
|      | 09.04.00 | Riprap and Groin Processing                                                                                                                    | ECY    | 115,230    | 30.00      | 3,456,900   | 100% | 115,230        | 30.00      | 3,456,900   | 100% | 115,230        | 30.00      | 3,456,900   | 100% | 115,230        | 30.00      | 3,456,900   |
|      | 09.05.00 | Removal of Excess Sand/Siltstone                                                                                                               | BCY    | -          | -          | -           | 100% | -              | -          | -           | 100% | -              | -          | -           | 100% | -              | -          | -           |
|      | 09.06.00 | Replace Overburden from Stockpile                                                                                                              | ECY    | 252,500    | 7.46       | 1,884,230   | 100% | 252,500        | 7.46       | 1,884,230   | 100% | 252,500        | 7.46       | 1,884,230   | 100% | 252,500        | 7.46       | 1,884,230   |
|      | 09.07.00 | Topsoil Replacement                                                                                                                            | ECY    | 238,000    | 9.93       | 2,364,349   | 100% | 238,000        | 9.93       | 2,364,349   | 100% | 238,000        | 9.93       | 2,364,349   | 100% | 238,000        | 9.93       | 2,364,349   |
|      | 09.08.00 | Seeding                                                                                                                                        | SF     | -          | -          | -           | 100% | -              | -          | -           | 100% | -              | -          | -           | 100% | -              | -          | -           |
| 10   | 10.00.00 | EMBANKMENT                                                                                                                                     |        |            |            | 124,376,704 |      |                |            | 131,176,852 |      |                |            | 137,977,000 |      |                |            | 144,777,148 |
|      | 10.01.00 | Furnish and Install Zone 1 - Core                                                                                                              | ECY    | 688,900    | 23.86      | 16,435,722  | 1.05 | 726,565        | 23.86      | 17,334,326  | 1.11 | 764,230        | 23.86      | 18,232,929  | 1.16 | 801,894        | 23.86      | 19,131,533  |
|      | 10.02.00 | Purchase, Haul and Place - Zone 2 - Filter                                                                                                     | ECY    | 186,013    | 149.56     | 27,820,826  | 1.05 | 196,183        | 149.56     | 29,341,896  | 1.11 | 206,353        | 149.56     | 30,862,967  | 1.16 | 216,523        | 149.56     | 32,384,037  |
|      | 10.03.00 | Purchase, Haul and Place - Zone 3 - Drain                                                                                                      | ECY    | 135,200    | 143.13     | 19,351,077  | 105% | 142,592        | 143.13     | 20,409,074  | 111% | 149,984        | 143.13     | 21,467,071  | 116% | 157,376        | 143.13     | 22,525,068  |
|      | 10.04.00 | Produce, Haul and Place - Zone 4A - Fine Transition                                                                                            | ECY    | -          | -          | -           | 105% | -              | -          | -           | 111% | -              | -          | -           | 116% | -              | -          | -           |
|      | 10.05.00 | Produce, Haul and Place - Zone 4B - Coarse Transition                                                                                          | ECY    | -          | -          | -           | 105% | -              | -          | -           | 111% | -              | -          | -           | 116% | -              | -          | -           |
|      | 10.06.00 | Produce, Haul and Place - Zone 8 - Fine Transition - Saddles                                                                                   | ECY    | 131,000    | 149.56     | 19,592,485  | 105% | 138,162        | 149.56     | 20,663,681  | 111% | 145,325        | 149.56     | 21,734,877  | 116% | 152,487        | 149.56     | 22,806,073  |
|      | 10.07.00 | Furnish and Install Zone 5&6 Sand/Siltstone - Rockfill                                                                                         | ECY    | -          | -          | -           | 105% | -              | -          | -           | 111% | -              | -          | -           | 116% | -              | -          | -           |
|      | 10.08.00 | Furnish and Install Zone - 9 Random                                                                                                            | ECY    | 3,362,742  | 10.99      | 36,967,697  | 105% | 3,546,596      | 10.99      | 38,988,861  | 111% | 3,730,450      | 10.99      | 41,010,026  | 116% | 3,914,304      | 10.99      | 43,031,191  |
|      | 10.09.00 | Produce, Haul and Place - Zone 7A - Bedding - Saddles                                                                                          | ECY    | 35,070     | 14.09      | 494,251     | 105% | 36,987         | 14.09      | 521,274     | 111% | 38,905         | 14.09      | 548,297     | 116% | 40,822         | 14.09      | 575,319     |
|      | 10.10.00 | Produce, Haul and Place - Zone 7B - Riprap                                                                                                     | ECY    | 110,180    | 32.23      | 3,550,909   | 105% | 116,204        | 32.23      | 3,745,050   | 111% | 122,228        | 32.23      | 3,939,192   | 116% | 128,252        | 32.23      | 4,133,334   |
|      | 10.11.00 | Produce, Haul and Place - Groin Protection - Saddles                                                                                           | ECY    | 5,050      | 32.42      | 163,738     | 105% | 5,326          | 32.42      | 172,690     | 111% | 5,602          | 32.42      | 181,642     | 116% | 5,878          | 32.42      | 190,595     |
| 11   | 11.00.00 | INSTRUMENTATION AND TELEMETRY                                                                                                                  |        |            |            | 2,297,000   |      |                |            | 2,297,000   |      |                |            | 2,297,000   |      |                |            | 2,297,000   |
|      | 11.01.00 | Instrumentation/Telemetry: Instrumentation/Telemetry (piezometers, settlement monitors (survey monuments), seismographs, and slope indicators) | LS     | 3          | 765,666.67 | 2,297,000   | 100% | 3              | 765,666.67 | 2,297,000   | 100% | 3              | 765,666.67 | 2,297,000   | 100% | 3              | 765,666.67 | 2,297,000   |
| 12   | 12.00.00 | SITE RESTORATION                                                                                                                               |        |            |            | 6,687,300   |      |                |            | 6,687,300   |      |                |            | 6,687,300   |      |                |            | 6,687,300   |
|      | 12.01.00 | Seeding                                                                                                                                        | SF     | 1,000,000  | 0.43       | 429,800     | 100% | 1,000,000      | 0.43       | 429,800     | 100% | 1,000,000      | 0.43       | 429,800     | 100% | 1,000,000      | 0.43       | 429,800     |
|      | 12.02.00 | Fencing                                                                                                                                        | LF     | 2,100      | 75.00      | 157,500     | 100% | 2,100          | 75.00      | 157,500     | 100% | 2,100          | 75.00      | 157,500     | 100% | 2,100          | 75.00      | 157,500     |
|      | 12.03.00 | Best Management Practices                                                                                                                      | LS     | 3          | *****      | 3,300,000   | 100% | 3              | *****      | 3,300,000   | 100% | 3              | *****      | 3,300,000   | 100% | 3              | *****      | 3,300,000   |
|      | 12.04.00 | Rock Check Dams                                                                                                                                | LS     | 3          | 466,666.67 | 1,400,000   | 100% | 3              | 466,666.67 | 1,400,000   | 100% | 3              | 466,666.67 | 1,400,000   | 100% | 3              | 466,666.67 | 1,400,000   |
|      | 12.05.00 | Drainage - Inlets, Culverts                                                                                                                    | LS     | 3          | 466,666.67 | 1,400,000   | 100% | 3              | 466,666.67 | 1,400,000   | 100% | 3              | 466,666.67 | 1,400,000   | 100% | 3              | 466,666.67 | 1,400,000   |
| 13   | 13.00.00 | RIM GROUTING                                                                                                                                   |        |            |            | 3,740,000   |      |                |            | 3,740,000   |      |                |            | 3,740,000   |      |                |            | 3,740,000   |
|      | 13.01.00 | Rim Grouting                                                                                                                                   | LF     | 18,700     | 200.00     | 3,740,000   | 100% | 18,700         | 200.00     | 3,740,000   | 100% | 18,700         | 200.00     | 3,740,000   | 100% | 18,700         | 200.00     | 3,740,000   |

DIRECT COST LEVEL 2 SUMMARY

| Item    | Sub Item | Description                                            | UoM | 30" Design |           |             | ADJ  | 20' Excavation |           |             | ADJ  | 25' Excavation |           |             | ADJ  | 30' Excavation |           |             |
|---------|----------|--------------------------------------------------------|-----|------------|-----------|-------------|------|----------------|-----------|-------------|------|----------------|-----------|-------------|------|----------------|-----------|-------------|
|         |          |                                                        |     | Qty        | Unit Rate | Total       |      | Qty            | Unit Rate | Total       |      | Qty            | Unit Rate | Total       |      | Qty            | Unit Rate | Total       |
| 14      | 14.00.00 | SPILLWAY                                               |     |            |           | 6,243,627   |      |                |           | 6,243,627   |      |                |           | 6,243,627   |      |                |           | 6,243,627   |
|         | 14.01.00 | Spillway Approach Channel Excavation                   | CY  | 25,080     | 16.50     | 413,816     | 100% | 25,080         | 16.50     | 413,816     | 100% | 25,080         | 16.50     | 413,816     | 100% | 25,080         | 16.50     | 413,816     |
|         | 14.02.00 | Spillway and Stilling Basin Slab, reinforced concrete  | CY  | 1,038      | 957.36    | 993,739     | 100% | 1,038          | 957.36    | 993,739     | 100% | 1,038          | 957.36    | 993,739     | 100% | 1,038          | 957.36    | 993,739     |
|         | 14.03.00 | Spillway and Stilling Basin walls, reinforced concrete | CY  | 585        | 2,059.50  | 1,204,807   | 100% | 585            | 2,059.50  | 1,204,807   | 100% | 585            | 2,059.50  | 1,204,807   | 100% | 585            | 2,059.50  | 1,204,807   |
|         | 14.04.00 | Spillway Stilling Basin Baffles                        | CY  | 11         | 1,989.52  | 21,885      | 100% | 11             | 1,989.52  | 21,885      | 100% | 11             | 1,989.52  | 21,885      | 100% | 11             | 1,989.52  | 21,885      |
|         | 14.05.00 | Cutoff walls under weir and stilling basin             | CY  | 147        | 1,820.43  | 267,603     | 100% | 147            | 1,820.43  | 267,603     | 100% | 147            | 1,820.43  | 267,603     | 100% | 147            | 1,820.43  | 267,603     |
|         | 14.06.00 | Spillway Wing walls                                    | CY  | 1,489      | 1,786.93  | 2,660,744   | 100% | 1,489          | 1,786.93  | 2,660,744   | 100% | 1,489          | 1,786.93  | 2,660,744   | 100% | 1,489          | 1,786.93  | 2,660,744   |
|         | 14.07.00 | Spillway Ogee Weir                                     | CY  | 329        | 1,693.54  | 557,176     | 100% | 329            | 1,693.54  | 557,176     | 100% | 329            | 1,693.54  | 557,176     | 100% | 329            | 1,693.54  | 557,176     |
|         | 14.08.00 | Backfill at Spillway                                   | CY  | 2,180      | 30.00     | 65,399      | 100% | 2,180          | 30.00     | 65,399      | 100% | 2,180          | 30.00     | 65,399      | 100% | 2,180          | 30.00     | 65,399      |
| Zone 4A | 14.09.00 | Riprap and Bedding at Spillway                         | CY  | 115        | 176.00    | 20,240      | 100% | 115            | 176.00    | 20,240      | 100% | 115            | 176.00    | 20,240      | 100% | 115            | 176.00    | 20,240      |
|         | 14.10.00 | Drainage                                               | CY  | 41         | 105.00    | 4,305       | 100% | 41             | 105.00    | 4,305       | 100% | 41             | 105.00    | 4,305       | 100% | 41             | 105.00    | 4,305       |
|         | 14.11.00 | Drainage - 6" PVC Pipe                                 | LF  | 357        | 95.00     | 33,914      | 100% | 357            | 95.00     | 33,914      | 100% | 357            | 95.00     | 33,914      | 100% | 357            | 95.00     | 33,914      |
| 15      | 15.00.00 | ALLOWANCE FOR UNLISTED ITEMS                           |     |            |           | 14,362,923  |      |                | -         | 15,025,155  |      |                | -         | 15,687,386  |      |                | -         | 16,349,618  |
| x       | 15.01.00 | Allowance for Unlisted Items                           | %   | 5%         | #####     | 14,362,923  | 100% | 5%             | #####     | 15,025,155  | 100% | 5%             | #####     | 15,687,386  | 100% | 5%             | #####     | 16,349,618  |
|         |          | Total Direct Cost                                      |     |            |           | 301,621,384 |      |                |           | 315,528,249 |      |                |           | 329,435,114 |      |                |           | 343,341,979 |

DIRECT COST LEVEL 2 SUMMARY

| Item | Sub Item | Description                                                                                                                                     | UoM    | 30% Design |            |             | ADJ  | Landslide |            |             | ADJ  | Grout Holes |            |             | ADJ  | Rim Grout |            |             |
|------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------|------------|-------------|------|-----------|------------|-------------|------|-------------|------------|-------------|------|-----------|------------|-------------|
|      |          |                                                                                                                                                 |        | Qty        | Unit Rate  | Total       |      | Qty       | Unit Rate  | Total       |      | Qty         | Unit Rate  | Total       |      | Qty       | Unit Rate  | Total       |
| 01   | 01.00.00 | PRECONSTRUCTION ACTIVITIES                                                                                                                      |        |            |            | 16,790,485  |      |           |            | 16,790,485  |      |             |            | 16,790,485  |      |           |            | 16,790,485  |
|      | 01.01.00 | Demolition Work                                                                                                                                 | LS     | -          | -          | -           |      | -         | -          | -           |      | -           | -          | -           |      | -         | -          | -           |
|      | 01.02.00 | Clearing and Grubbing                                                                                                                           | ACRE   | 115        | 10,237.82  | 1,177,349   | 100% | 115       | 10,237.82  | 1,177,349   | 100% | 115         | 10,237.82  | 1,177,349   | 100% | 115       | 10,237.82  | 1,177,349   |
|      | 01.03.00 | Reservoir Clearing                                                                                                                              | ACRE   | -          | -          | -           | 100% | -         | -          | -           | 100% | -           | -          | -           | 100% | -         | -          | -           |
|      | 01.04.00 | Erosion and Sediment Control                                                                                                                    | ACRE   | 115        | 107,918.98 | 12,410,682  | 100% | 115       | 107,918.98 | 12,410,682  | 100% | 115         | 107,918.98 | 12,410,682  | 100% | 115       | 107,918.98 | 12,410,682  |
|      | 01.05.00 | Developing haul routes - Haul routes inside reservoir                                                                                           | ACRES  | 132        | 11,135.46  | 1,469,880   | 100% | 132       | 11,135.46  | 1,469,880   | 100% | 132         | 11,135.46  | 1,469,880   | 100% | 132       | 11,135.46  | 1,469,880   |
|      | 01.06.00 | Developing haul routes - Haul routes outside reservoir                                                                                          | ACRES  | 81         | 11,135.94  | 902,011     | 100% | 81        | 11,135.94  | 902,011     | 100% | 81          | 11,135.94  | 902,011     | 100% | 81        | 11,135.94  | 902,011     |
|      | 01.07.00 | Developing Stockpile and Staging Areas                                                                                                          | ACRES  | 48         | 17,303.36  | 830,561     | 100% | 48        | 17,303.36  | 830,561     | 100% | 48          | 17,303.36  | 830,561     | 100% | 48        | 17,303.36  | 830,561     |
| 04   | 04.00.00 | FOUNDATION EXCAVATION                                                                                                                           |        |            |            | 19,333,456  |      |           |            | 23,055,093  |      |             |            | 19,333,456  |      |           |            | 19,333,456  |
|      | 04.01.00 | Topsoil Salvage                                                                                                                                 | BCY    | 238,000    | 6.23       | 1,482,363   | 1.19 | 283,814   | 6.23       | 1,767,714   | 100% | 238,000     | 6.23       | 1,482,363   | 100% | 238,000   | 6.23       | 1,482,363   |
|      | 04.02.00 | Drill and Shoot Foundation                                                                                                                      | BCY    | 67,775     | 14.96      | 1,013,783   | 119% | 80,822    | 14.96      | 1,208,933   | 100% | 67,775      | 14.96      | 1,013,783   | 100% | 67,775    | 14.96      | 1,013,783   |
|      | 04.03.00 | Dam Foundation Excavation                                                                                                                       | BCY    | 1,355,500  | 11.83      | 16,037,310  | 119% | 1,616,430 | 11.83      | 19,124,448  | 100% | 1,355,500   | 11.83      | 16,037,310  | 100% | 1,355,500 | 11.83      | 16,037,310  |
|      | 04.05.00 | Dewatering allowance                                                                                                                            | Months | 24         | 33,333.33  | 800,000     | 119% | 29        | 33,333.33  | 953,998     | 100% | 24          | 33,333.33  | 800,000     | 100% | 24        | 33,333.33  | 800,000     |
| 05   | 05.00.00 | FOUNDATION PREPARATION - BENEATH CORE                                                                                                           |        |            |            | 21,775,170  |      |           |            | 21,775,170  |      |             |            | 21,775,170  |      |           |            | 21,775,170  |
|      | 05.01.00 | Initial Foundation Cleaning - Core                                                                                                              | SY     | 65,400     | 25.67      | 1,678,943   | 100% | 65,400    | 25.67      | 1,678,943   | 100% | 65,400      | 25.67      | 1,678,943   | 100% | 65,400    | 25.67      | 1,678,943   |
|      | 05.02.00 | Final Foundation Cleaning - Core                                                                                                                | SY     | 81,750     | 34.32      | 2,805,904   | 100% | 81,750    | 34.32      | 2,805,904   | 100% | 81,750      | 34.32      | 2,805,904   | 100% | 81,750    | 34.32      | 2,805,904   |
|      | 05.03.00 | Dental Excavation                                                                                                                               | CY     | 8,850      | 25.06      | 221,790     | 100% | 8,850     | 25.06      | 221,790     | 100% | 8,850       | 25.06      | 221,790     | 100% | 8,850     | 25.06      | 221,790     |
|      | 05.04.00 | Dental Concrete                                                                                                                                 | CY     | 8,850      | 529.27     | 4,684,064   | 100% | 8,850     | 529.27     | 4,684,064   | 100% | 8,850       | 529.27     | 4,684,064   | 100% | 8,850     | 529.27     | 4,684,064   |
|      | 05.05.00 | Backfill Concrete                                                                                                                               | CY     | 18,050     | 406.76     | 7,341,949   | 100% | 18,050    | 406.76     | 7,341,949   | 100% | 18,050      | 406.76     | 7,341,949   | 100% | 18,050    | 406.76     | 7,341,949   |
|      | 05.06.00 | Shaping Excavations                                                                                                                             | CY     | 1,350      | 28.57      | 38,572      | 100% | 1,350     | 28.57      | 38,572      | 100% | 1,350       | 28.57      | 38,572      | 100% | 1,350     | 28.57      | 38,572      |
|      | 05.07.00 | Slush Grout                                                                                                                                     | Sacks  | 19,650     | 254.65     | 5,003,948   | 100% | 19,650    | 254.65     | 5,003,948   | 100% | 19,650      | 254.65     | 5,003,948   | 100% | 19,650    | 254.65     | 5,003,948   |
| 06   | 06.00.00 | GROUTING                                                                                                                                        |        |            |            | 73,021,783  |      |           |            | 73,021,783  |      |             |            | 87,891,755  |      |           |            | 73,021,783  |
|      | 06.01.00 | Grout Cap                                                                                                                                       | CY     | -          | -          | -           | 100% | -         | -          | -           | 1.20 | -           | -          | -           | 100% | -         | -          | -           |
|      | 06.02.00 | Grout Cap Anchors                                                                                                                               | LF     | -          | -          | -           | 100% | -         | -          | -           | 1.20 | -           | -          | -           | 100% | -         | -          | -           |
|      | 06.03.00 | Grout Cut Off Wall                                                                                                                              | CY     | 5,865      | 601.19     | 3,525,995   | 100% | 5,865     | 601.19     | 3,525,995   | 1.20 | 7,059       | 601.19     | 4,244,020   | 100% | 5,865     | 601.19     | 3,525,995   |
|      | 06.04.00 | Curtain Grouting - Includes Stich and Fans                                                                                                      | LF     | 270,500    | 192.16     | 51,980,030  | 100% | 270,500   | 192.16     | 51,980,030  | 1.20 | 325,584     | 192.16     | 62,565,113  | 100% | 270,500   | 192.16     | 51,980,030  |
|      | 06.05.00 | Consolidation Grouting                                                                                                                          | LF     | 83,900     | 185.21     | 15,539,525  | 100% | 83,900    | 185.21     | 15,539,525  | 1.20 | 100,985     | 185.21     | 18,703,955  | 100% | 83,900    | 185.21     | 15,539,525  |
|      | 06.06.00 | Type III Cement                                                                                                                                 | Tons   | 7,186      | 275.00     | 1,976,233   | 100% | 7,186     | 275.00     | 1,976,233   | 1.20 | 8,650       | 275.00     | 2,378,668   | 100% | 7,186     | 275.00     | 1,976,233   |
| 07   | 07.00.00 | FOUNDATION PREPARATION - BENEATH SHELL                                                                                                          |        |            |            | 1,228,672   |      |           |            | 1,228,672   |      |             |            | 1,228,672   |      |           |            | 1,228,672   |
|      | 07.01.00 | Foundation Cleaning - Shell                                                                                                                     | SY     | 308,100    | 3.99       | 1,228,672   | 100% | 308,100   | 3.99       | 1,228,672   | 100% | 308,100     | 3.99       | 1,228,672   | 100% | 308,100   | 3.99       | 1,228,672   |
| 08   | 08.00.00 | FOUNDATION DRAINAGE                                                                                                                             |        |            |            | 1,476,396   |      |           |            | 1,476,396   |      |             |            | 1,476,396   |      |           |            | 1,476,396   |
|      | 08.01.00 | Furnish and Install Foundation Drain Pipe                                                                                                       | LF     | 8,820      | 134.87     | 1,189,567   | 100% | 8,820     | 134.87     | 1,189,567   | 100% | 8,820       | 134.87     | 1,189,567   | 100% | 8,820     | 134.87     | 1,189,567   |
|      | 08.02.00 | Furnish and Install Foundation Drain Manholes                                                                                                   | EA     | 7          | 20,487.77  | 143,414     | 100% | 7         | 20,487.77  | 143,414     | 100% | 7           | 20,487.77  | 143,414     | 100% | 7         | 20,487.77  | 143,414     |
|      | 08.03.00 | Furnish and Install Inspection Well                                                                                                             | EA     | 7          | 20,487.77  | 143,414     | 100% | 7         | 20,487.77  | 143,414     | 100% | 7           | 20,487.77  | 143,414     | 100% | 7         | 20,487.77  | 143,414     |
| 09   | 09.00.00 | ROCK BORROW AREA - DEVELOP, PROCESSING, AND RESTORATION                                                                                         |        |            |            | 10,287,868  |      |           |            | 10,287,868  |      |             |            | 10,287,868  |      |           |            | 10,287,868  |
|      | 09.01.00 | Strip/Overburden/Waste to Stockpile                                                                                                             | BCY    | -          | -          | -           | 100% | -         | -          | -           | 100% | -           | -          | -           | 100% | -         | -          | -           |
|      | 09.02.00 | Drill, Blast, Excavate to Crusher and Riprap Process                                                                                            | BCY    | 150,300    | 9.71       | 1,460,149   | 100% | 150,300   | 9.71       | 1,460,149   | 100% | 150,300     | 9.71       | 1,460,149   | 100% | 150,300   | 9.71       | 1,460,149   |
|      | 09.03.00 | Zone 4A, 4B, Zone 7A Processing                                                                                                                 | ECY    | 35,070     | 32.00      | 1,122,240   | 100% | 35,070    | 32.00      | 1,122,240   | 100% | 35,070      | 32.00      | 1,122,240   | 100% | 35,070    | 32.00      | 1,122,240   |
|      | 09.04.00 | Riprap and Groin Processing                                                                                                                     | ECY    | 115,230    | 30.00      | 3,456,900   | 100% | 115,230   | 30.00      | 3,456,900   | 100% | 115,230     | 30.00      | 3,456,900   | 100% | 115,230   | 30.00      | 3,456,900   |
|      | 09.05.00 | Removal of Excess Sand/Siltstone                                                                                                                | BCY    | -          | -          | -           | 100% | -         | -          | -           | 100% | -           | -          | -           | 100% | -         | -          | -           |
|      | 09.06.00 | Replace Overburden from Stockpile                                                                                                               | ECY    | 252,500    | 7.46       | 1,884,230   | 100% | 252,500   | 7.46       | 1,884,230   | 100% | 252,500     | 7.46       | 1,884,230   | 100% | 252,500   | 7.46       | 1,884,230   |
|      | 09.07.00 | Topsoil Replacement                                                                                                                             | ECY    | 238,000    | 9.93       | 2,364,349   | 100% | 238,000   | 9.93       | 2,364,349   | 100% | 238,000     | 9.93       | 2,364,349   | 100% | 238,000   | 9.93       | 2,364,349   |
|      | 09.08.00 | Seeding                                                                                                                                         | SF     | -          | -          | -           | 100% | -         | -          | -           | 100% | -           | -          | -           | 100% | -         | -          | -           |
| 10   | 10.00.00 | EMBANKMENT                                                                                                                                      |        |            |            | 124,376,704 |      |           |            | 129,239,334 |      |             |            | 124,376,704 |      |           |            | 124,376,704 |
|      | 10.01.00 | Furnish and Install Zone 1 - Core                                                                                                               | ECY    | 688,900    | 23.86      | 16,435,722  | 1.04 | 715,833   | 23.86      | 17,078,293  | 100% | 688,900     | 23.86      | 16,435,722  | 100% | 688,900   | 23.86      | 16,435,722  |
|      | 10.02.00 | Purchase, Haul and Place - Zone 2 - Filter                                                                                                      | ECY    | 186,013    | 149.56     | 27,820,826  | 1.04 | 193,285   | 149.56     | 28,908,508  | 100% | 186,013     | 149.56     | 27,820,826  | 100% | 186,013   | 149.56     | 27,820,826  |
|      | 10.03.00 | Purchase, Haul and Place - Zone 3 - Drain                                                                                                       | ECY    | 135,200    | 143.13     | 19,351,077  | 104% | 140,486   | 143.13     | 20,107,626  | 100% | 135,200     | 143.13     | 19,351,077  | 100% | 135,200   | 143.13     | 19,351,077  |
|      | 10.04.00 | Produce, Haul and Place - Zone 4A - Fine Transition                                                                                             | ECY    | -          | -          | -           | 104% | -         | -          | -           | 100% | -           | -          | -           | 100% | -         | -          | -           |
|      | 10.05.00 | Produce, Haul and Place - Zone 4B - Coarse Transition                                                                                           | ECY    | -          | -          | -           | 104% | -         | -          | -           | 100% | -           | -          | -           | 100% | -         | -          | -           |
|      | 10.06.00 | Produce, Haul and Place - Zone 8 - Fine Transition - Saddles                                                                                    | ECY    | 131,000    | 149.56     | 19,592,485  | 104% | 136,122   | 149.56     | 20,358,473  | 100% | 131,000     | 149.56     | 19,592,485  | 100% | 131,000   | 149.56     | 19,592,485  |
|      | 10.07.00 | Furnish and Install Zone 5&6 Sand/Siltstone - Rockfill                                                                                          | ECY    | -          | -          | -           | 104% | -         | -          | -           | 100% | -           | -          | -           | 100% | -         | -          | -           |
|      | 10.08.00 | Furnish and Install Zone - 9 Random                                                                                                             | ECY    | 3,362,742  | 10.99      | 36,967,697  | 104% | 3,494,212 | 10.99      | 38,412,985  | 100% | 3,362,742   | 10.99      | 36,967,697  | 100% | 3,362,742 | 10.99      | 36,967,697  |
|      | 10.09.00 | Produce, Haul and Place - Zone 7A - Bedding - Saddles                                                                                           | ECY    | 35,070     | 14.09      | 494,251     | 104% | 36,441    | 14.09      | 513,575     | 100% | 35,070      | 14.09      | 494,251     | 100% | 35,070    | 14.09      | 494,251     |
|      | 10.10.00 | Produce, Haul and Place - Zone 7B - Riprap                                                                                                      | ECY    | 110,180    | 32.23      | 3,550,909   | 104% | 114,488   | 32.23      | 3,689,735   | 100% | 110,180     | 32.23      | 3,550,909   | 100% | 110,180   | 32.23      | 3,550,909   |
|      | 10.11.00 | Produce, Haul and Place - Groin Protection - Saddles                                                                                            | ECY    | 5,050      | 32.42      | 163,738     | 104% | 5,247     | 32.42      | 170,140     | 100% | 5,050       | 32.42      | 163,738     | 100% | 5,050     | 32.42      | 163,738     |
| 11   | 11.00.00 | INSTRUMENTATION AND TELEMETRY                                                                                                                   |        |            |            | 2,297,000   |      |           |            | 2,297,000   |      |             |            | 2,297,000   |      |           |            | 2,297,000   |
|      | 11.01.00 | Instrumentation/ Telemetry: Instrumentation/Telemetry (piezometers, settlement monitors (survey monuments), seismographs, and slope indicators) | LS     | 3          | 765,666.67 | 2,297,000   | 100% | 3         | 765,666.67 | 2,297,000   | 100% | 3           | 765,666.67 | 2,297,000   | 100% | 3         | 765,666.67 | 2,297,000   |
| 12   | 12.00.00 | SITE RESTORATION                                                                                                                                |        |            |            | 6,687,300   |      |           |            | 6,687,300   |      |             |            | 6,687,300   |      |           |            | 6,687,300   |
|      | 12.01.00 | Seeding                                                                                                                                         | SF     | 1,000,000  | 0.43       | 429,800     | 100% | 1,000,000 | 0.43       | 429,800     | 100% | 1,000,000   | 0.43       | 429,800     | 100% | 1,000,000 | 0.43       | 429,800     |
|      | 12.02.00 | Fencing                                                                                                                                         | LF     | 2,100      | 75.00      | 157,500     | 100% | 2,100     | 75.00      | 157,500     | 100% | 2,100       | 75.00      | 157,500     | 100% | 2,100     | 75.00      | 157,500     |
|      | 12.03.00 | Best Management Practices                                                                                                                       | LS     | 3          | *****      | 3,300,000   | 100% | 3         | *****      | 3,300,000   | 100% | 3           | *****      | 3,300,000   | 100% | 3         | *****      | 3,300,000   |
|      | 12.04.00 | Rock Check Dams                                                                                                                                 | LS     | 3          | 466,666.67 | 1,400,000   | 100% | 3         | 466,666.67 | 1,400,000   | 100% | 3           | 466,666.67 | 1,400,000   | 100% | 3         | 466,666.67 | 1,400,000   |
|      | 12.05.00 | Drainage - Inlets, Culverts                                                                                                                     | LS     | 3          | 466,666.67 | 1,400,000   | 100% | 3         | 466,666.67 | 1,400,000   | 100% | 3           | 466,666.67 | 1,400,000   | 100% | 3         | 466,666.67 | 1,400,000   |
| 13   | 13.00.00 | RIM GROUTING                                                                                                                                    |        |            |            | 3,740,000   |      |           |            | 3,740,000   |      |             |            | 3,740,000   |      |           |            | 3,740,000   |
|      | 13.01.00 | Rim Grouting                                                                                                                                    | LF     | 18,700     | 200.00     | 3,740,000   | 100% | 18,700    | 200.00     | 3,740,000   | 100% | 18,700      | 200.00     | 3,740,000   | 200% | 37,400    | 200.00     | 7,480,000   |

DIRECT COST LEVEL 2 SUMMARY

| Item    | Sub Item | Description                                            | UoM | 30% Design |           |             | ADJ  | Landslide |           |             | ADJ  | Grout Holes |           |             | ADJ  | Rim Grout |           |             |
|---------|----------|--------------------------------------------------------|-----|------------|-----------|-------------|------|-----------|-----------|-------------|------|-------------|-----------|-------------|------|-----------|-----------|-------------|
|         |          |                                                        |     | Qty        | Unit Rate | Total       |      | Qty       | Unit Rate | Total       |      | Qty         | Unit Rate | Total       |      | Qty       | Unit Rate | Total       |
| 14      | 14.00.00 | SPILLWAY                                               |     |            |           | 6,243,627   |      |           |           | 6,243,627   |      |             |           | 6,243,627   |      |           |           | 6,243,627   |
|         | 14.01.00 | Spillway Approach Channel Excavation                   | CY  | 25,080     | 16.50     | 413,816     | 100% | 25,080    | 16.50     | 413,816     | 100% | 25,080      | 16.50     | 413,816     | 100% | 25,080    | 16.50     | 413,816     |
|         | 14.02.00 | Spillway and Stilling Basin Slab, reinforced concrete  | CY  | 1,038      | 957.36    | 993,739     | 100% | 1,038     | 957.36    | 993,739     | 100% | 1,038       | 957.36    | 993,739     | 100% | 1,038     | 957.36    | 993,739     |
|         | 14.03.00 | Spillway and Stilling Basin walls, reinforced concrete | CY  | 585        | 2,059.50  | 1,204,807   | 100% | 585       | 2,059.50  | 1,204,807   | 100% | 585         | 2,059.50  | 1,204,807   | 100% | 585       | 2,059.50  | 1,204,807   |
|         | 14.04.00 | Spillway Stilling Basin Baffles                        | CY  | 11         | 1,989.52  | 21,885      | 100% | 11        | 1,989.52  | 21,885      | 100% | 11          | 1,989.52  | 21,885      | 100% | 11        | 1,989.52  | 21,885      |
|         | 14.05.00 | Cutoff walls under weir and stilling basin             | CY  | 147        | 1,820.43  | 267,603     | 100% | 147       | 1,820.43  | 267,603     | 100% | 147         | 1,820.43  | 267,603     | 100% | 147       | 1,820.43  | 267,603     |
|         | 14.06.00 | Spillway Wing walls                                    | CY  | 1,489      | 1,786.93  | 2,660,744   | 100% | 1,489     | 1,786.93  | 2,660,744   | 100% | 1,489       | 1,786.93  | 2,660,744   | 100% | 1,489     | 1,786.93  | 2,660,744   |
|         | 14.07.00 | Spillway Ogee Weir                                     | CY  | 329        | 1,693.54  | 557,176     | 100% | 329       | 1,693.54  | 557,176     | 100% | 329         | 1,693.54  | 557,176     | 100% | 329       | 1,693.54  | 557,176     |
|         | 14.08.00 | Backfill at Spillway                                   | CY  | 2,180      | 30.00     | 65,399      | 100% | 2,180     | 30.00     | 65,399      | 100% | 2,180       | 30.00     | 65,399      | 100% | 2,180     | 30.00     | 65,399      |
| Zone 4A | 14.09.00 | Riprap and Bedding at Spillway                         | CY  | 115        | 176.00    | 20,240      | 100% | 115       | 176.00    | 20,240      | 100% | 115         | 176.00    | 20,240      | 100% | 115       | 176.00    | 20,240      |
|         | 14.10.00 | Drainage                                               | CY  | 41         | 105.00    | 4,305       | 100% | 41        | 105.00    | 4,305       | 100% | 41          | 105.00    | 4,305       | 100% | 41        | 105.00    | 4,305       |
|         | 14.11.00 | Drainage - 6" PVC Pipe                                 | LF  | 357        | 95.00     | 33,914      | 100% | 357       | 95.00     | 33,914      | 100% | 357         | 95.00     | 33,914      | 100% | 357       | 95.00     | 33,914      |
| 15      | 15.00.00 | ALLOWANCE FOR UNLISTED ITEMS                           |     |            |           | 14,362,923  |      |           | -         | 14,792,136  |      |             | -         | 15,106,422  |      |           | -         | 14,549,923  |
| x       | 15.01.00 | Allowance for Unlisted Items                           | %   | 5%         | #####     | 14,362,923  | 100% | 5%        | #####     | 14,792,136  | 100% | 5%          | #####     | 15,106,422  | 100% | 5%        | #####     | 14,549,923  |
|         |          | Total Direct Cost                                      |     |            |           | 301,621,384 |      |           |           | 310,634,863 |      |             |           | 317,234,855 |      |           |           | 305,548,384 |

DIRECT COST LEVEL 2 SUMMARY

|      |          | 30% Design                                                                                                                                     |        |           |            | ADJ         | Core Haul |            |             |           | ADJ        | Core Slope  |            |            |             | ADJ        | Spillway Volume |  |  |  |
|------|----------|------------------------------------------------------------------------------------------------------------------------------------------------|--------|-----------|------------|-------------|-----------|------------|-------------|-----------|------------|-------------|------------|------------|-------------|------------|-----------------|--|--|--|
| Item | Sub Item | Description                                                                                                                                    | UoM    | Qty       | Unit Rate  | Total       | Qty       | Unit Rate  | Total       | Qty       | Unit Rate  | Total       | Qty        | Unit Rate  | Total       |            |                 |  |  |  |
| 01   | 01.00.00 | PRECONSTRUCTION ACTIVITIES                                                                                                                     |        |           |            | 16,790,485  |           |            | 16,790,485  |           |            | 16,790,485  |            |            | 16,790,485  |            |                 |  |  |  |
|      | 01.01.00 | Demolition Work                                                                                                                                | LS     | -         | -          | -           | -         | -          | -           | -         | -          | -           | -          | -          | -           |            |                 |  |  |  |
|      | 01.02.00 | Clearing and Grubbing                                                                                                                          | ACRE   | 115       | 10,237.82  | 1,177,349   | 115       | 10,237.82  | 1,177,349   | 115       | 10,237.82  | 1,177,349   | 115        | 10,237.82  | 1,177,349   |            |                 |  |  |  |
|      | 01.03.00 | Reservoir Clearing                                                                                                                             | ACRE   | -         | -          | -           | -         | -          | -           | -         | -          | -           | -          | -          | -           |            |                 |  |  |  |
|      | 01.04.00 | Erosion and Sediment Control                                                                                                                   | ACRE   | 115       | 107,918.98 | 12,410,682  | 115       | 107,918.98 | 12,410,682  | 115       | 107,918.98 | 12,410,682  | 115        | 107,918.98 | 12,410,682  |            |                 |  |  |  |
|      | 01.05.00 | Developing haul routes - Haul routes inside reservoir                                                                                          | ACRES  | 132       | 11,135.46  | 1,469,880   | 132       | 11,135.46  | 1,469,880   | 132       | 11,135.46  | 1,469,880   | 132        | 11,135.46  | 1,469,880   |            |                 |  |  |  |
|      | 01.06.00 | Developing haul routes - Haul routes outside reservoir                                                                                         | ACRES  | 81        | 11,135.94  | 902,011     | 81        | 11,135.94  | 902,011     | 81        | 11,135.94  | 902,011     | 81         | 11,135.94  | 902,011     |            |                 |  |  |  |
|      | 01.07.00 | Developing Stockpile and Staging Areas                                                                                                         | ACRES  | 48        | 17,303.36  | 830,561     | 48        | 17,303.36  | 830,561     | 48        | 17,303.36  | 830,561     | 48         | 17,303.36  | 830,561     |            |                 |  |  |  |
| 04   | 04.00.00 | FOUNDATION EXCAVATION                                                                                                                          |        |           |            | 19,333,456  |           |            | 19,333,456  |           |            | 19,333,456  |            |            | 19,333,456  |            |                 |  |  |  |
|      | 04.01.00 | Topsoil Salvage                                                                                                                                | BCY    | 238,000   | 6.23       | 1,482,363   | 238,000   | 6.23       | 1,482,363   | 238,000   | 6.23       | 1,482,363   | 238,000    | 6.23       | 1,482,363   |            |                 |  |  |  |
|      | 04.02.00 | Drill and Shoot Foundation                                                                                                                     | BCY    | 67,775    | 14.96      | 1,013,783   | 67,775    | 14.96      | 1,013,783   | 67,775    | 14.96      | 1,013,783   | 67,775     | 14.96      | 1,013,783   |            |                 |  |  |  |
|      | 04.03.00 | Dam Foundation Excavation                                                                                                                      | BCY    | 1,355,500 | 11.83      | 16,037,310  | 1,355,500 | 11.83      | 16,037,310  | 1,355,500 | 11.83      | 16,037,310  | 1,355,500  | 11.83      | 16,037,310  |            |                 |  |  |  |
|      | 04.05.00 | Dewatering allowance                                                                                                                           | Months | 24        | 33,333.33  | 800,000     | 24        | 33,333.33  | 800,000     | 24        | 33,333.33  | 800,000     | 24         | 33,333.33  | 800,000     |            |                 |  |  |  |
| 05   | 05.00.00 | FOUNDATION PREPARATION - BENEATH CORE                                                                                                          |        |           |            | 21,775,170  |           |            | 21,775,170  |           |            | 21,775,170  |            |            | 21,775,170  |            |                 |  |  |  |
|      | 05.01.00 | Initial Foundation Cleaning - Core                                                                                                             | SY     | 65,400    | 25.67      | 1,678,943   | 65,400    | 25.67      | 1,678,943   | 65,400    | 25.67      | 1,678,943   | 65,400     | 25.67      | 1,678,943   |            |                 |  |  |  |
|      | 05.02.00 | Final Foundation Cleaning - Core                                                                                                               | SY     | 81,750    | 34.32      | 2,805,904   | 81,750    | 34.32      | 2,805,904   | 81,750    | 34.32      | 2,805,904   | 81,750     | 34.32      | 2,805,904   |            |                 |  |  |  |
|      | 05.03.00 | Dental Excavation                                                                                                                              | CY     | 8,850     | 25.06      | 221,790     | 8,850     | 25.06      | 221,790     | 8,850     | 25.06      | 221,790     | 8,850      | 25.06      | 221,790     |            |                 |  |  |  |
|      | 05.04.00 | Dental Concrete                                                                                                                                | CY     | 8,850     | 529.27     | 4,684,064   | 8,850     | 529.27     | 4,684,064   | 8,850     | 529.27     | 4,684,064   | 8,850      | 529.27     | 4,684,064   |            |                 |  |  |  |
|      | 05.05.00 | Backfill Concrete                                                                                                                              | CY     | 18,050    | 406.76     | 7,341,949   | 18,050    | 406.76     | 7,341,949   | 18,050    | 406.76     | 7,341,949   | 18,050     | 406.76     | 7,341,949   |            |                 |  |  |  |
|      | 05.06.00 | Shaping Excavations                                                                                                                            | CY     | 1,350     | 28.57      | 38,572      | 1,350     | 28.57      | 38,572      | 1,350     | 28.57      | 38,572      | 1,350      | 28.57      | 38,572      |            |                 |  |  |  |
|      | 05.07.00 | Slush Grout                                                                                                                                    | Sacks  | 19,650    | 254.65     | 5,003,948   | 19,650    | 254.65     | 5,003,948   | 19,650    | 254.65     | 5,003,948   | 19,650     | 254.65     | 5,003,948   |            |                 |  |  |  |
| 06   | 06.00.00 | GROUTING                                                                                                                                       |        |           |            | 73,021,783  |           |            | 73,021,783  |           |            | 73,021,783  |            |            | 73,021,783  |            |                 |  |  |  |
|      | 06.01.00 | Grout Cap                                                                                                                                      | CY     | -         | -          | -           | -         | -          | -           | -         | -          | -           | -          | -          | -           |            |                 |  |  |  |
|      | 06.02.00 | Grout Cap Anchors                                                                                                                              | LF     | -         | -          | -           | -         | -          | -           | -         | -          | -           | -          | -          | -           |            |                 |  |  |  |
|      | 06.03.00 | Grout Cut Off Wall                                                                                                                             | CY     | 5,865     | 601.19     | 3,525,995   | 5,865     | 601.19     | 3,525,995   | 5,865     | 601.19     | 3,525,995   | 5,865      | 601.19     | 3,525,995   |            |                 |  |  |  |
|      | 06.04.00 | Curtain Grouting - Includes Stich and Fans                                                                                                     | LF     | 270,500   | 192.16     | 51,980,030  | 270,500   | 192.16     | 51,980,030  | 270,500   | 192.16     | 51,980,030  | 270,500    | 192.16     | 51,980,030  |            |                 |  |  |  |
|      | 06.05.00 | Consolidation Grouting                                                                                                                         | LF     | 83,900    | 185.21     | 15,539,525  | 83,900    | 185.21     | 15,539,525  | 83,900    | 185.21     | 15,539,525  | 83,900     | 185.21     | 15,539,525  |            |                 |  |  |  |
|      | 06.06.00 | Type III Cement                                                                                                                                | Tons   | 7,186     | 275.00     | 1,976,233   | 7,186     | 275.00     | 1,976,233   | 7,186     | 275.00     | 1,976,233   | 7,186      | 275.00     | 1,976,233   |            |                 |  |  |  |
| 07   | 07.00.00 | FOUNDATION PREPARATION - BENEATH SHELL                                                                                                         |        |           |            | 1,228,672   |           |            | 1,228,672   |           |            | 1,228,672   |            |            | 1,228,672   |            |                 |  |  |  |
|      | 07.01.00 | Foundation Cleaning - Shell                                                                                                                    | SY     | 308,100   | 3.99       | 1,228,672   | 308,100   | 3.99       | 1,228,672   | 308,100   | 3.99       | 1,228,672   | 308,100    | 3.99       | 1,228,672   |            |                 |  |  |  |
| 08   | 08.00.00 | FOUNDATION DRAINAGE                                                                                                                            |        |           |            | 1,476,396   |           |            | 1,476,396   |           |            | 1,476,396   |            |            | 1,476,396   |            |                 |  |  |  |
|      | 08.01.00 | Furnish and Install Foundation Drain Pipe                                                                                                      | LF     | 8,820     | 134.87     | 1,189,567   | 8,820     | 134.87     | 1,189,567   | 8,820     | 134.87     | 1,189,567   | 8,820      | 134.87     | 1,189,567   |            |                 |  |  |  |
|      | 08.02.00 | Furnish and Install Foundation Drain Manholes                                                                                                  | EA     | 7         | 20,487.77  | 143,414     | 7         | 20,487.77  | 143,414     | 7         | 20,487.77  | 143,414     | 7          | 20,487.77  | 143,414     |            |                 |  |  |  |
|      | 08.03.00 | Furnish and Install Inspection Well                                                                                                            | EA     | 7         | 20,487.77  | 143,414     | 7         | 20,487.77  | 143,414     | 7         | 20,487.77  | 143,414     | 7          | 20,487.77  | 143,414     |            |                 |  |  |  |
| 09   | 09.00.00 | ROCK BORROW AREA - DEVELOP, PROCESSING, AND RESTORATION                                                                                        |        |           |            | 10,287,868  |           |            | 10,287,868  |           |            | 10,287,868  |            |            | 10,287,868  |            |                 |  |  |  |
|      | 09.01.00 | Strip/Overburden/Waste to Stockpile                                                                                                            | BCY    | -         | -          | -           | -         | -          | -           | -         | -          | -           | -          | -          | -           |            |                 |  |  |  |
|      | 09.02.00 | Drill, Blast, Excavate to Crusher and Riprap Process                                                                                           | BCY    | 150,300   | 9.71       | 1,460,149   | 150,300   | 9.71       | 1,460,149   | 150,300   | 9.71       | 1,460,149   | 150,300    | 9.71       | 1,460,149   |            |                 |  |  |  |
|      | 09.03.00 | Zone 4A, 4B, Zone 7A Processing                                                                                                                | ECY    | 35,070    | 32.00      | 1,122,240   | 35,070    | 32.00      | 1,122,240   | 35,070    | 32.00      | 1,122,240   | 35,070     | 32.00      | 1,122,240   |            |                 |  |  |  |
|      | 09.04.00 | Riprap and Groin Processing                                                                                                                    | ECY    | 115,230   | 30.00      | 3,456,900   | 115,230   | 30.00      | 3,456,900   | 115,230   | 30.00      | 3,456,900   | 115,230    | 30.00      | 3,456,900   |            |                 |  |  |  |
|      | 09.05.00 | Removal of Excess Sand/Siltstone                                                                                                               | BCY    | -         | -          | -           | -         | -          | -           | -         | -          | -           | -          | -          | -           |            |                 |  |  |  |
|      | 09.06.00 | Replace Overburden from Stockpile                                                                                                              | ECY    | 252,500   | 7.46       | 1,884,230   | 252,500   | 7.46       | 1,884,230   | 252,500   | 7.46       | 1,884,230   | 252,500    | 7.46       | 1,884,230   |            |                 |  |  |  |
|      | 09.07.00 | Topsoil Replacement                                                                                                                            | ECY    | 238,000   | 9.93       | 2,364,349   | 238,000   | 9.93       | 2,364,349   | 238,000   | 9.93       | 2,364,349   | 238,000    | 9.93       | 2,364,349   |            |                 |  |  |  |
|      | 09.08.00 | Seeding                                                                                                                                        | SF     | -         | -          | -           | -         | -          | -           | -         | -          | -           | -          | -          | -           |            |                 |  |  |  |
| 10   | 10.00.00 | EMBANKMENT                                                                                                                                     |        |           |            | 124,376,704 |           |            | 135,496,982 |           |            | 140,812,427 |            |            | 124,376,704 |            |                 |  |  |  |
|      | 10.01.00 | Furnish and Install Zone 1 - Core                                                                                                              | ECY    | 688,900   | 23.86      | 16,435,722  | 688,900   | 40.00      | 27,556,000  | 2.00      | 1,377,800  | 23.86       | 32,871,444 | 688,900    | 23.86       | 16,435,722 |                 |  |  |  |
|      | 10.02.00 | Purchase, Haul and Place - Zone 2 - Filter                                                                                                     | ECY    | 186,013   | 149.56     | 27,820,826  | 186,013   | 149.56     | 27,820,826  | 100%      | 186,013    | 149.56      | 27,820,826 | 186,013    | 149.56      | 27,820,826 |                 |  |  |  |
|      | 10.03.00 | Purchase, Haul and Place - Zone 3 - Drain                                                                                                      | ECY    | 135,200   | 143.13     | 19,351,077  | 135,200   | 143.13     | 19,351,077  | 100%      | 135,200    | 143.13      | 19,351,077 | 135,200    | 143.13      | 19,351,077 |                 |  |  |  |
|      | 10.04.00 | Produce, Haul and Place - Zone 4A - Fine Transition                                                                                            | ECY    | -         | -          | -           | -         | -          | -           | 100%      | -          | -           | -          | -          | -           | -          |                 |  |  |  |
|      | 10.05.00 | Produce, Haul and Place - Zone 4B - Coarse Transition                                                                                          | ECY    | -         | -          | -           | -         | -          | -           | 100%      | -          | -           | -          | -          | -           | -          |                 |  |  |  |
|      | 10.06.00 | Produce, Haul and Place - Zone 8 - Fine Transition - Saddles                                                                                   | ECY    | 131,000   | 149.56     | 19,592,485  | 131,000   | 149.56     | 19,592,485  | 100%      | 131,000    | 149.56      | 19,592,485 | 131,000    | 149.56      | 19,592,485 |                 |  |  |  |
|      | 10.07.00 | Furnish and Install Zone 5&6 Sand/Siltstone - Rockfill                                                                                         | ECY    | -         | -          | -           | -         | -          | -           | 100%      | -          | -           | -          | -          | -           | -          |                 |  |  |  |
|      | 10.08.00 | Furnish and Install Zone - 9 Random                                                                                                            | ECY    | 3,362,742 | 10.99      | 36,967,697  | 3,362,742 | 10.99      | 36,967,697  | 100%      | 3,362,742  | 10.99       | 36,967,697 | 3,362,742  | 10.99       | 36,967,697 |                 |  |  |  |
|      | 10.09.00 | Produce, Haul and Place - Zone 7A - Bedding - Saddles                                                                                          | ECY    | 35,070    | 14.09      | 494,251     | 35,070    | 14.09      | 494,251     | 100%      | 35,070     | 14.09       | 494,251    | 35,070     | 14.09       | 494,251    |                 |  |  |  |
|      | 10.10.00 | Produce, Haul and Place - Zone 7B - Riprap                                                                                                     | ECY    | 110,180   | 32.23      | 3,550,909   | 110,180   | 32.23      | 3,550,909   | 100%      | 110,180    | 32.23       | 3,550,909  | 110,180    | 32.23       | 3,550,909  |                 |  |  |  |
|      | 10.11.00 | Produce, Haul and Place - Groin Protection - Saddles                                                                                           | ECY    | 5,050     | 32.42      | 163,738     | 5,050     | 32.42      | 163,738     | 100%      | 5,050      | 32.42       | 163,738    | 5,050      | 32.42       | 163,738    |                 |  |  |  |
| 11   | 11.00.00 | INSTRUMENTATION AND TELEMETRY                                                                                                                  |        |           |            | 2,297,000   |           |            | 2,297,000   |           |            | 2,297,000   |            |            | 2,297,000   |            |                 |  |  |  |
|      | 11.01.00 | Instrumentation/Telemetry: Instrumentation/Telemetry (piezometers, settlement monitors (survey monuments), seismographs, and slope indicators) | LS     | 3         | 765,666.67 | 2,297,000   | 3         | 765,666.67 | 2,297,000   | 100%      | 3          | 765,666.67  | 2,297,000  | 3          | 765,666.67  | 2,297,000  |                 |  |  |  |
| 12   | 12.00.00 | SITE RESTORATION                                                                                                                               |        |           |            | 6,687,300   |           |            | 6,687,300   |           |            | 6,687,300   |            |            | 6,687,300   |            |                 |  |  |  |
|      | 12.01.00 | Seeding                                                                                                                                        | SF     | 1,000,000 | 0.43       | 429,800     | 1,000,000 | 0.43       | 429,800     | 100%      | 1,000,000  | 0.43        | 429,800    | 1,000,000  | 0.43        | 429,800    |                 |  |  |  |
|      | 12.02.00 | Fencing                                                                                                                                        | LF     | 2,100     | 75.00      | 157,500     | 2,100     | 75.00      | 157,500     | 100%      | 2,100      | 75.00       | 157,500    | 2,100      | 75.00       | 157,500    |                 |  |  |  |
|      | 12.03.00 | Best Management Practices                                                                                                                      | LS     | 3         | *****      | 3,300,000   | 3         | *****      | 3,300,000   | 100%      | 3          | *****       | 3,300,000  | 3          | *****       | 3,300,000  |                 |  |  |  |
|      | 12.04.00 | Rock Check Dams                                                                                                                                | LS     | 3         | 466,666.67 | 1,400,000   | 3         | 466,666.67 | 1,400,000   | 100%      | 3          | 466,666.67  | 1,400,000  | 3          | 466,666.67  | 1,400,000  |                 |  |  |  |
|      | 12.05.00 | Drainage - Inlets, Culverts                                                                                                                    | LS     | 3         | 466,666.67 | 1,400,000   | 3         | 466,666.67 | 1,400,000   | 100%      | 3          | 466,666.67  | 1,400,000  | 3          | 466,666.67  | 1,400,000  |                 |  |  |  |
| 13   | 13.00.00 | RIM GROUTING                                                                                                                                   |        |           |            | 3,740,000   |           |            | 3,740,000   |           |            | 3,740,000   |            |            | 3,740,000   |            |                 |  |  |  |
|      | 13.01.00 | Rim Grouting                                                                                                                                   | LF     | 18,700    | 200.00     | 3,740,000   | 18,700    | 200.00     | 3,740,000   | 100%      | 18,700     | 200.00      | 3,740,000  | 18,700     | 200.00      | 3,740,000  |                 |  |  |  |

DIRECT COST LEVEL 2 SUMMARY

| Item    | Sub Item | Description                                            | UoM | 30% Design |           |             | ADJ  | Core Haul |           |             | ADJ  | Core Slope |           |             | ADJ  | Spillway Volume |           |             |
|---------|----------|--------------------------------------------------------|-----|------------|-----------|-------------|------|-----------|-----------|-------------|------|------------|-----------|-------------|------|-----------------|-----------|-------------|
|         |          |                                                        |     | Qty        | Unit Rate | Total       |      | Qty       | Unit Rate | Total       |      | Qty        | Unit Rate | Total       |      | Qty             | Unit Rate | Total       |
| 14      | 14.00.00 | SPILLWAY                                               |     |            |           | 6,243,627   |      |           |           | 6,243,627   |      |            |           | 6,243,627   |      |                 |           | 12,487,255  |
|         | 14.01.00 | Spillway Approach Channel Excavation                   | CY  | 25,080     | 16.50     | 413,816     | 100% | 25,080    | 16.50     | 413,816     | 100% | 25,080     | 16.50     | 413,816     | 200% | 50,160          | 16.50     | 827,632     |
|         | 14.02.00 | Spillway and Stilling Basin Slab, reinforced concrete  | CY  | 1,038      | 957.36    | 993,739     | 100% | 1,038     | 957.36    | 993,739     | 100% | 1,038      | 957.36    | 993,739     | 200% | 2,076           | 957.36    | 1,987,479   |
|         | 14.03.00 | Spillway and Stilling Basin walls, reinforced concrete | CY  | 585        | 2,059.50  | 1,204,807   | 100% | 585       | 2,059.50  | 1,204,807   | 100% | 585        | 2,059.50  | 1,204,807   | 200% | 1,170           | 2,059.50  | 2,409,613   |
|         | 14.04.00 | Spillway Stilling Basin Baffles                        | CY  | 11         | 1,989.52  | 21,885      | 100% | 11        | 1,989.52  | 21,885      | 100% | 11         | 1,989.52  | 21,885      | 200% | 22              | 1,989.52  | 43,769      |
|         | 14.05.00 | Cutoff walls under weir and stilling basin             | CY  | 147        | 1,820.43  | 267,603     | 100% | 147       | 1,820.43  | 267,603     | 100% | 147        | 1,820.43  | 267,603     | 200% | 294             | 1,820.43  | 535,206     |
|         | 14.06.00 | Spillway Wing walls                                    | CY  | 1,489      | 1,786.93  | 2,660,744   | 100% | 1,489     | 1,786.93  | 2,660,744   | 100% | 1,489      | 1,786.93  | 2,660,744   | 200% | 2,978           | 1,786.93  | 5,321,487   |
|         | 14.07.00 | Spillway Ogee Weir                                     | CY  | 329        | 1,693.54  | 557,176     | 100% | 329       | 1,693.54  | 557,176     | 100% | 329        | 1,693.54  | 557,176     | 200% | 658             | 1,693.54  | 1,114,353   |
|         | 14.08.00 | Backfill at Spillway                                   | CY  | 2,180      | 30.00     | 65,399      | 100% | 2,180     | 30.00     | 65,399      | 100% | 2,180      | 30.00     | 65,399      | 200% | 4,360           | 30.00     | 130,797     |
| Zone 4A | 14.09.00 | Riprap and Bedding at Spillway                         | CY  | 115        | 176.00    | 20,240      | 100% | 115       | 176.00    | 20,240      | 100% | 115        | 176.00    | 20,240      | 200% | 230             | 176.00    | 40,480      |
|         | 14.10.00 | Drainage                                               | CY  | 41         | 105.00    | 4,305       | 100% | 41        | 105.00    | 4,305       | 100% | 41         | 105.00    | 4,305       | 200% | 82              | 105.00    | 8,610       |
|         | 14.11.00 | Drainage - 6" PVC Pipe                                 | LF  | 357        | 95.00     | 33,914      | 100% | 357       | 95.00     | 33,914      | 100% | 357        | 95.00     | 33,914      | 200% | 714             | 95.00     | 67,829      |
| 15      | 15.00.00 | ALLOWANCE FOR UNLISTED ITEMS                           |     |            |           | 14,362,923  |      |           | -         | 14,918,937  |      |            | -         | 15,184,709  |      |                 | -         | 14,675,104  |
| x       | 15.01.00 | Allowance for Unlisted Items                           | %   | 5%         | #####     | 14,362,923  | 100% | 5%        | #####     | 14,918,937  | 100% | 5%         | #####     | 15,184,709  | 100% | 5%              | #####     | 14,675,104  |
|         |          | Total Direct Cost                                      |     |            |           | 301,621,384 |      |           |           | 313,297,676 |      |            |           | 318,878,892 |      |                 |           | 308,177,192 |

DIRECT COST LEVEL 2 SUMMARY

| Item | Sub Item | Description                                                                                                                                      | UoM    | 30% Design |            |             | ADJ  | Not Used  |            |             | ADJ  | Borrow Waste - 15% |            |             | ADJ  | Borrow Waste - 30% |            |             |
|------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------|------------|-------------|------|-----------|------------|-------------|------|--------------------|------------|-------------|------|--------------------|------------|-------------|
|      |          |                                                                                                                                                  |        | Qty        | Unit Rate  | Total       |      | Qty       | Unit Rate  | Total       |      | Qty                | Unit Rate  | Total       |      | Qty                | Unit Rate  | Total       |
| 01   | 01.00.00 | PRECONSTRUCTION ACTIVITIES                                                                                                                       |        |            |            | 16,790,485  |      |           |            | 16,790,485  |      |                    |            | 16,790,485  |      |                    |            | 16,790,485  |
|      | 01.01.00 | Demolition Work                                                                                                                                  | LS     | -          | -          | -           |      | -         | -          | -           |      | -                  | -          | -           |      | -                  | -          | -           |
|      | 01.02.00 | Clearing and Grubbing                                                                                                                            | ACRE   | 115        | 10,237.82  | 1,177,349   | 100% | 115       | 10,237.82  | 1,177,349   | 100% | 115                | 10,237.82  | 1,177,349   | 100% | 115                | 10,237.82  | 1,177,349   |
|      | 01.03.00 | Reservoir Clearing                                                                                                                               | ACRE   | -          | -          | -           | 100% | -         | -          | -           | 100% | -                  | -          | -           | 100% | -                  | -          | -           |
|      | 01.04.00 | Erosion and Sediment Control                                                                                                                     | ACRE   | 115        | 107,918.98 | 12,410,682  | 100% | 115       | 107,918.98 | 12,410,682  | 100% | 115                | 107,918.98 | 12,410,682  | 100% | 115                | 107,918.98 | 12,410,682  |
|      | 01.05.00 | Developing haul routes - Haul routes inside reservoir                                                                                            | ACRES  | 132        | 11,135.46  | 1,469,880   | 100% | 132       | 11,135.46  | 1,469,880   | 100% | 132                | 11,135.46  | 1,469,880   | 100% | 132                | 11,135.46  | 1,469,880   |
|      | 01.06.00 | Developing haul routes - Haul routes outside reservoir                                                                                           | ACRES  | 81         | 11,135.94  | 902,011     | 100% | 81        | 11,135.94  | 902,011     | 100% | 81                 | 11,135.94  | 902,011     | 100% | 81                 | 11,135.94  | 902,011     |
|      | 01.07.00 | Developing Stockpile and Staging Areas                                                                                                           | ACRES  | 48         | 17,303.36  | 830,561     | 100% | 48        | 17,303.36  | 830,561     | 100% | 48                 | 17,303.36  | 830,561     | 100% | 48                 | 17,303.36  | 830,561     |
| 04   | 04.00.00 | FOUNDATION EXCAVATION                                                                                                                            |        |            |            | 19,333,456  |      |           |            | 19,333,456  |      |                    |            | 19,333,456  |      |                    |            | 19,333,456  |
|      | 04.01.00 | Topsoil Salvage                                                                                                                                  | BCY    | 238,000    | 6.23       | 1,482,363   | 100% | 238,000   | 6.23       | 1,482,363   | 100% | 238,000            | 6.23       | 1,482,363   | 100% | 238,000            | 6.23       | 1,482,363   |
|      | 04.02.00 | Drill and Shoot Foundation                                                                                                                       | BCY    | 67,775     | 14.96      | 1,013,783   | 100% | 67,775    | 14.96      | 1,013,783   | 100% | 67,775             | 14.96      | 1,013,783   | 100% | 67,775             | 14.96      | 1,013,783   |
|      | 04.03.00 | Dam Foundation Excavation                                                                                                                        | BCY    | 1,355,500  | 11.83      | 16,037,310  | 100% | 1,355,500 | 11.83      | 16,037,310  | 100% | 1,355,500          | 11.83      | 16,037,310  | 100% | 1,355,500          | 11.83      | 16,037,310  |
|      | 04.05.00 | Dewatering allowance                                                                                                                             | Months | 24         | 33,333.33  | 800,000     | 100% | 24        | 33,333.33  | 800,000     | 100% | 24                 | 33,333.33  | 800,000     | 100% | 24                 | 33,333.33  | 800,000     |
| 05   | 05.00.00 | FOUNDATION PREPARATION - BENEATH CORE                                                                                                            |        |            |            | 21,775,170  |      |           |            | 21,775,170  |      |                    |            | 21,775,170  |      |                    |            | 21,775,170  |
|      | 05.01.00 | Initial Foundation Cleaning - Core                                                                                                               | SY     | 65,400     | 25.67      | 1,678,943   | 100% | 65,400    | 25.67      | 1,678,943   | 100% | 65,400             | 25.67      | 1,678,943   | 100% | 65,400             | 25.67      | 1,678,943   |
|      | 05.02.00 | Final Foundation Cleaning - Core                                                                                                                 | SY     | 81,750     | 34.32      | 2,805,904   | 100% | 81,750    | 34.32      | 2,805,904   | 100% | 81,750             | 34.32      | 2,805,904   | 100% | 81,750             | 34.32      | 2,805,904   |
|      | 05.03.00 | Dental Excavation                                                                                                                                | CY     | 8,850      | 25.06      | 221,790     | 100% | 8,850     | 25.06      | 221,790     | 100% | 8,850              | 25.06      | 221,790     | 100% | 8,850              | 25.06      | 221,790     |
|      | 05.04.00 | Dental Concrete                                                                                                                                  | CY     | 8,850      | 529.27     | 4,684,064   | 100% | 8,850     | 529.27     | 4,684,064   | 100% | 8,850              | 529.27     | 4,684,064   | 100% | 8,850              | 529.27     | 4,684,064   |
|      | 05.05.00 | Backfill Concrete                                                                                                                                | CY     | 18,050     | 406.76     | 7,341,949   | 100% | 18,050    | 406.76     | 7,341,949   | 100% | 18,050             | 406.76     | 7,341,949   | 100% | 18,050             | 406.76     | 7,341,949   |
|      | 05.06.00 | Shaping Excavations                                                                                                                              | CY     | 1,350      | 28.57      | 38,572      | 100% | 1,350     | 28.57      | 38,572      | 100% | 1,350              | 28.57      | 38,572      | 100% | 1,350              | 28.57      | 38,572      |
|      | 05.07.00 | Slush Grout                                                                                                                                      | Sacks  | 19,650     | 254.65     | 5,003,948   | 100% | 19,650    | 254.65     | 5,003,948   | 100% | 19,650             | 254.65     | 5,003,948   | 100% | 19,650             | 254.65     | 5,003,948   |
| 06   | 06.00.00 | GROUTING                                                                                                                                         |        |            |            | 73,021,783  |      |           |            | 73,021,783  |      |                    |            | 73,021,783  |      |                    |            | 73,021,783  |
|      | 06.01.00 | Grout Cap                                                                                                                                        | CY     | -          | -          | -           | 100% | -         | -          | -           | 100% | -                  | -          | -           | 100% | -                  | -          | -           |
|      | 06.02.00 | Grout Cap Anchors                                                                                                                                | LF     | -          | -          | -           | 100% | -         | -          | -           | 100% | -                  | -          | -           | 100% | -                  | -          | -           |
|      | 06.03.00 | Grout Cut Off Wall                                                                                                                               | CY     | 5,865      | 601.19     | 3,525,995   | 100% | 5,865     | 601.19     | 3,525,995   | 100% | 5,865              | 601.19     | 3,525,995   | 100% | 5,865              | 601.19     | 3,525,995   |
|      | 06.04.00 | Curtain Grouting - Includes Stich and Fans                                                                                                       | LF     | 270,500    | 192.16     | 51,980,030  | 100% | 270,500   | 192.16     | 51,980,030  | 100% | 270,500            | 192.16     | 51,980,030  | 100% | 270,500            | 192.16     | 51,980,030  |
|      | 06.05.00 | Consolidation Grouting                                                                                                                           | LF     | 83,900     | 185.21     | 15,539,525  | 100% | 83,900    | 185.21     | 15,539,525  | 100% | 83,900             | 185.21     | 15,539,525  | 100% | 83,900             | 185.21     | 15,539,525  |
|      | 06.06.00 | Type III Cement                                                                                                                                  | Tons   | 7,186      | 275.00     | 1,976,233   | 100% | 7,186     | 275.00     | 1,976,233   | 100% | 7,186              | 275.00     | 1,976,233   | 100% | 7,186              | 275.00     | 1,976,233   |
| 07   | 07.00.00 | FOUNDATION PREPARATION - BENEATH SHELL                                                                                                           |        |            |            | 1,228,672   |      |           |            | 1,228,672   |      |                    |            | 1,228,672   |      |                    |            | 1,228,672   |
|      | 07.01.00 | Foundation Cleaning - Shell                                                                                                                      | SY     | 308,100    | 3.99       | 1,228,672   | 100% | 308,100   | 3.99       | 1,228,672   | 100% | 308,100            | 3.99       | 1,228,672   | 100% | 308,100            | 3.99       | 1,228,672   |
| 08   | 08.00.00 | FOUNDATION DRAINAGE                                                                                                                              |        |            |            | 1,476,396   |      |           |            | 1,476,396   |      |                    |            | 1,476,396   |      |                    |            | 1,476,396   |
|      | 08.01.00 | Furnish and Install Foundation Drain Pipe                                                                                                        | LF     | 8,820      | 134.87     | 1,189,567   | 100% | 8,820     | 134.87     | 1,189,567   | 100% | 8,820              | 134.87     | 1,189,567   | 100% | 8,820              | 134.87     | 1,189,567   |
|      | 08.02.00 | Furnish and Install Foundation Drain Manholes                                                                                                    | EA     | 7          | 20,487.77  | 143,414     | 100% | 7         | 20,487.77  | 143,414     | 100% | 7                  | 20,487.77  | 143,414     | 100% | 7                  | 20,487.77  | 143,414     |
|      | 08.03.00 | Furnish and Install Inspection Well                                                                                                              | EA     | 7          | 20,487.77  | 143,414     | 100% | 7         | 20,487.77  | 143,414     | 100% | 7                  | 20,487.77  | 143,414     | 100% | 7                  | 20,487.77  | 143,414     |
| 09   | 09.00.00 | ROCK BORROW AREA - DEVELOP, PROCESSING, AND RESTORATION                                                                                          |        |            |            | 10,287,868  |      |           |            | 10,287,868  |      |                    |            | 10,287,868  |      |                    |            | 10,287,868  |
|      | 09.01.00 | Strip/Overburden/Waste to Stockpile                                                                                                              | BCY    | -          | -          | -           | 100% | -         | -          | -           | 100% | -                  | -          | -           | 100% | -                  | -          | -           |
|      | 09.02.00 | Drill, Blast, Excavate to Crusher and Riprap Process                                                                                             | BCY    | 150,300    | 9.71       | 1,460,149   | 100% | 150,300   | 9.71       | 1,460,149   | 100% | 150,300            | 9.71       | 1,460,149   | 100% | 150,300            | 9.71       | 1,460,149   |
|      | 09.03.00 | Zone 4A, 4B, Zone 7A Processing                                                                                                                  | ECY    | 35,070     | 32.00      | 1,122,240   | 100% | 35,070    | 32.00      | 1,122,240   | 100% | 35,070             | 32.00      | 1,122,240   | 100% | 35,070             | 32.00      | 1,122,240   |
|      | 09.04.00 | Riprap and Groin Processing                                                                                                                      | ECY    | 115,230    | 30.00      | 3,456,900   | 100% | 115,230   | 30.00      | 3,456,900   | 100% | 115,230            | 30.00      | 3,456,900   | 100% | 115,230            | 30.00      | 3,456,900   |
|      | 09.05.00 | Removal of Excess Sand/Siltstone                                                                                                                 | BCY    | -          | -          | -           | 100% | -         | -          | -           | 100% | -                  | -          | -           | 100% | -                  | -          | -           |
|      | 09.06.00 | Replace Overburden from Stockpile                                                                                                                | ECY    | 252,500    | 7.46       | 1,884,230   | 100% | 252,500   | 7.46       | 1,884,230   | 100% | 252,500            | 7.46       | 1,884,230   | 100% | 252,500            | 7.46       | 1,884,230   |
|      | 09.07.00 | Topsoil Replacement                                                                                                                              | ECY    | 238,000    | 9.93       | 2,364,349   | 100% | 238,000   | 9.93       | 2,364,349   | 100% | 238,000            | 9.93       | 2,364,349   | 100% | 238,000            | 9.93       | 2,364,349   |
|      | 09.08.00 | Seeding                                                                                                                                          | SF     | -          | -          | -           | 100% | -         | -          | -           | 100% | -                  | -          | -           | 100% | -                  | -          | -           |
| 10   | 10.00.00 | EMBANKMENT                                                                                                                                       |        |            |            | 124,376,704 |      |           |            | 124,376,704 |      |                    |            | 149,021,835 |      |                    |            | 173,666,966 |
|      | 10.01.00 | Furnish and Install Zone 1 - Core                                                                                                                | ECY    | 688,900    | 23.86      | 16,435,722  | 100% | 688,900   | 23.86      | 16,435,722  | 100% | 688,900            | 23.86      | 16,435,722  | 100% | 688,900            | 23.86      | 16,435,722  |
|      | 10.02.00 | Purchase, Haul and Place - Zone 2 - Filter                                                                                                       | ECY    | 186,013    | 149.56     | 27,820,826  | 100% | 186,013   | 149.56     | 27,820,826  | 100% | 186,013            | 149.56     | 27,820,826  | 100% | 186,013            | 149.56     | 27,820,826  |
|      | 10.03.00 | Purchase, Haul and Place - Zone 3 - Drain                                                                                                        | ECY    | 135,200    | 143.13     | 19,351,077  | 100% | 135,200   | 143.13     | 19,351,077  | 100% | 135,200            | 143.13     | 19,351,077  | 100% | 135,200            | 143.13     | 19,351,077  |
|      | 10.04.00 | Produce, Haul and Place - Zone 4A - Fine Transition                                                                                              | ECY    | -          | -          | -           | 100% | -         | -          | -           | 100% | -                  | -          | -           | 100% | -                  | -          | -           |
|      | 10.05.00 | Produce, Haul and Place - Zone 4B - Coarse Transition                                                                                            | ECY    | -          | -          | -           | 100% | -         | -          | -           | 100% | -                  | -          | -           | 100% | -                  | -          | -           |
|      | 10.06.00 | Produce, Haul and Place - Zone 8 - Fine Transition - Saddles                                                                                     | ECY    | 131,000    | 149.56     | 19,592,485  | 100% | 131,000   | 149.56     | 19,592,485  | 100% | 131,000            | 149.56     | 19,592,485  | 100% | 131,000            | 149.56     | 19,592,485  |
|      | 10.07.00 | Furnish and Install Zone 5&6 Sand/Siltstone - Rockfill                                                                                           | ECY    | -          | -          | -           | 100% | -         | -          | -           | 100% | -                  | -          | -           | 100% | -                  | -          | -           |
|      | 10.08.00 | Furnish and Install Zone - 9 Random                                                                                                              | ECY    | 3,362,742  | 10.99      | 36,967,697  | 100% | 3,362,742 | 10.99      | 36,967,697  | 167% | 5,604,570          | 10.99      | 61,612,828  | 2.33 | 7,846,398          | 10.99      | 86,257,959  |
|      | 10.09.00 | Produce, Haul and Place - Zone 7A - Bedding - Saddles                                                                                            | ECY    | 35,070     | 14.09      | 494,251     | 100% | 35,070    | 14.09      | 494,251     | 100% | 35,070             | 14.09      | 494,251     | 100% | 35,070             | 14.09      | 494,251     |
|      | 10.10.00 | Produce, Haul and Place - Zone 7B - Riprap                                                                                                       | ECY    | 110,180    | 32.23      | 3,550,909   | 100% | 110,180   | 32.23      | 3,550,909   | 100% | 110,180            | 32.23      | 3,550,909   | 100% | 110,180            | 32.23      | 3,550,909   |
|      | 10.11.00 | Produce, Haul and Place - Groin Protection - Saddles                                                                                             | ECY    | 5,050      | 32.42      | 163,738     | 100% | 5,050     | 32.42      | 163,738     | 100% | 5,050              | 32.42      | 163,738     | 100% | 5,050              | 32.42      | 163,738     |
| 11   | 11.00.00 | INSTRUMENTATION AND TELEMETRY                                                                                                                    |        |            |            | 2,297,000   |      |           |            | 2,297,000   |      |                    |            | 2,297,000   |      |                    |            | 2,297,000   |
|      | 11.01.00 | Instrumentation/ Telemetry: Instrumentation/ Telemetry (piezometers, settlement monitors (survey monuments), seismographs, and slope indicators) | LS     | 3          | 765,666.67 | 2,297,000   | 100% | 3         | 765,666.67 | 2,297,000   | 100% | 3                  | 765,666.67 | 2,297,000   | 100% | 3                  | 765,666.67 | 2,297,000   |
| 12   | 12.00.00 | SITE RESTORATION                                                                                                                                 |        |            |            | 6,687,300   |      |           |            | 6,687,300   |      |                    |            | 6,687,300   |      |                    |            | 6,687,300   |
|      | 12.01.00 | Seeding                                                                                                                                          | SF     | 1,000,000  | 0.43       | 429,800     | 100% | 1,000,000 | 0.43       | 429,800     | 100% | 1,000,000          | 0.43       | 429,800     | 100% | 1,000,000          | 0.43       | 429,800     |
|      | 12.02.00 | Fencing                                                                                                                                          | LF     | 2,100      | 75.00      | 157,500     | 100% | 2,100     | 75.00      | 157,500     | 100% | 2,100              | 75.00      | 157,500     | 100% | 2,100              | 75.00      | 157,500     |
|      | 12.03.00 | Best Management Practices                                                                                                                        | LS     | 3          | *****      | 3,300,000   | 100% | 3         | *****      | 3,300,000   | 100% | 3                  | *****      | 3,300,000   | 100% | 3                  | *****      | 3,300,000   |
|      | 12.04.00 | Rock Check Dams                                                                                                                                  | LS     | 3          | 466,666.67 | 1,400,000   | 100% | 3         | 466,666.67 | 1,400,000   | 100% | 3                  | 466,666.67 | 1,400,000   | 100% | 3                  | 466,666.67 | 1,400,000   |
|      | 12.05.00 | Drainage - Inlets, Culverts                                                                                                                      | LS     | 3          | 466,666.67 | 1,400,000   | 100% | 3         | 466,666.67 | 1,400,000   | 100% | 3                  | 466,666.67 | 1,400,000   | 100% | 3                  | 466,666.67 | 1,400,000   |
| 13   | 13.00.00 | RIM GROUTING                                                                                                                                     |        |            |            | 3,740,000   |      |           |            | 3,740,000   |      |                    |            | 3,740,000   |      |                    |            | 3,740,000   |
|      | 13.01.00 | Rim Grouting                                                                                                                                     | LF     | 18,700     | 200.00     | 3,740,000   | 100% | 18,700    | 200.00     | 3,740,000   | 100% | 18,700             | 200.00     | 3,740,000   | 100% | 18,700             | 200.00     | 3,740,000   |

DIRECT COST LEVEL 2 SUMMARY

| Item    | Sub Item | Description                                            | UoM | 30% Design |           |             | ADJ  | Not Used |           |             | ADJ  | Borrow Waste - 15% |           |             | ADJ  | Borrow Waste - 30% |           |             |
|---------|----------|--------------------------------------------------------|-----|------------|-----------|-------------|------|----------|-----------|-------------|------|--------------------|-----------|-------------|------|--------------------|-----------|-------------|
|         |          |                                                        |     | Qty        | Unit Rate | Total       |      | Qty      | Unit Rate | Total       |      | Qty                | Unit Rate | Total       |      | Qty                | Unit Rate | Total       |
| 14      | 14.00.00 | SPILLWAY                                               |     |            |           | 6,243,627   |      |          |           | 6,243,627   |      |                    |           | 6,243,627   |      |                    |           | 6,243,627   |
|         | 14.01.00 | Spillway Approach Channel Excavation                   | CY  | 25,080     | 16.50     | 413,816     | 100% | 25,080   | 16.50     | 413,816     | 100% | 25,080             | 16.50     | 413,816     | 100% | 25,080             | 16.50     | 413,816     |
|         | 14.02.00 | Spillway and Stilling Basin Slab, reinforced concrete  | CY  | 1,038      | 957.36    | 993,739     | 100% | 1,038    | 957.36    | 993,739     | 100% | 1,038              | 957.36    | 993,739     | 100% | 1,038              | 957.36    | 993,739     |
|         | 14.03.00 | Spillway and Stilling Basin walls, reinforced concrete | CY  | 585        | 2,059.50  | 1,204,807   | 100% | 585      | 2,059.50  | 1,204,807   | 100% | 585                | 2,059.50  | 1,204,807   | 100% | 585                | 2,059.50  | 1,204,807   |
|         | 14.04.00 | Spillway Stilling Basin Baffles                        | CY  | 11         | 1,989.52  | 21,885      | 100% | 11       | 1,989.52  | 21,885      | 100% | 11                 | 1,989.52  | 21,885      | 100% | 11                 | 1,989.52  | 21,885      |
|         | 14.05.00 | Cutoff walls under weir and stilling basin             | CY  | 147        | 1,820.43  | 267,603     | 100% | 147      | 1,820.43  | 267,603     | 100% | 147                | 1,820.43  | 267,603     | 100% | 147                | 1,820.43  | 267,603     |
|         | 14.06.00 | Spillway Wing walls                                    | CY  | 1,489      | 1,786.93  | 2,660,744   | 100% | 1,489    | 1,786.93  | 2,660,744   | 100% | 1,489              | 1,786.93  | 2,660,744   | 100% | 1,489              | 1,786.93  | 2,660,744   |
|         | 14.07.00 | Spillway Ogee Weir                                     | CY  | 329        | 1,693.54  | 557,176     | 100% | 329      | 1,693.54  | 557,176     | 100% | 329                | 1,693.54  | 557,176     | 100% | 329                | 1,693.54  | 557,176     |
|         | 14.08.00 | Backfill at Spillway                                   | CY  | 2,180      | 30.00     | 65,399      | 100% | 2,180    | 30.00     | 65,399      | 100% | 2,180              | 30.00     | 65,399      | 100% | 2,180              | 30.00     | 65,399      |
| Zone 4A | 14.09.00 | Riprap and Bedding at Spillway                         | CY  | 115        | 176.00    | 20,240      | 100% | 115      | 176.00    | 20,240      | 100% | 115                | 176.00    | 20,240      | 100% | 115                | 176.00    | 20,240      |
|         | 14.10.00 | Drainage                                               | CY  | 41         | 105.00    | 4,305       | 100% | 41       | 105.00    | 4,305       | 100% | 41                 | 105.00    | 4,305       | 100% | 41                 | 105.00    | 4,305       |
|         | 14.11.00 | Drainage - 6" PVC Pipe                                 | LF  | 357        | 95.00     | 33,914      | 100% | 357      | 95.00     | 33,914      | 100% | 357                | 95.00     | 33,914      | 100% | 357                | 95.00     | 33,914      |
| 15      | 15.00.00 | ALLOWANCE FOR UNLISTED ITEMS                           |     |            |           | 14,362,923  |      |          | -         | 14,362,923  |      |                    | -         | 15,595,180  |      |                    | -         | 16,827,436  |
| x       | 15.01.00 | Allowance for Unlisted Items                           | %   | 5%         | #####     | 14,362,923  | 100% | 5%       | #####     | 14,362,923  | 100% | 5%                 | #####     | 15,595,180  | 100% | 5%                 | #####     | 16,827,436  |
|         |          | Total Direct Cost                                      |     |            |           | 301,621,384 |      |          |           | 301,621,384 |      |                    |           | 327,498,771 |      |                    |           | 353,376,159 |

DIRECT COST LEVEL 2 SUMMARY

| Item | Sub Item | Description                                                                                                                                      | UoM    | 30% Design |            |             | ADJ  | F&D +25%  |            |             | ADJ  | Not Used  |            |             | ADJ  | Transitions +25% |            |             |
|------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------|------------|-------------|------|-----------|------------|-------------|------|-----------|------------|-------------|------|------------------|------------|-------------|
|      |          |                                                                                                                                                  |        | Qty        | Unit Rate  | Total       |      | Qty       | Unit Rate  | Total       |      | Qty       | Unit Rate  | Total       |      | Qty              | Unit Rate  | Total       |
| 01   | 01.00.00 | PRECONSTRUCTION ACTIVITIES                                                                                                                       |        |            |            | 16,790,485  |      |           |            | 16,790,485  |      |           |            | 16,790,485  |      |                  |            | 16,790,485  |
|      | 01.01.00 | Demolition Work                                                                                                                                  | LS     | -          | -          | -           |      | -         | -          | -           |      | -         | -          | -           |      | -                | -          | -           |
|      | 01.02.00 | Clearing and Grubbing                                                                                                                            | ACRE   | 115        | 10,237.82  | 1,177,349   | 100% | 115       | 10,237.82  | 1,177,349   | 100% | 115       | 10,237.82  | 1,177,349   | 100% | 115              | 10,237.82  | 1,177,349   |
|      | 01.03.00 | Reservoir Clearing                                                                                                                               | ACRE   | -          | -          | -           | 100% | -         | -          | -           | 100% | -         | -          | -           | 100% | -                | -          | -           |
|      | 01.04.00 | Erosion and Sediment Control                                                                                                                     | ACRE   | 115        | 107,918.98 | 12,410,682  | 100% | 115       | 107,918.98 | 12,410,682  | 100% | 115       | 107,918.98 | 12,410,682  | 100% | 115              | 107,918.98 | 12,410,682  |
|      | 01.05.00 | Developing haul routes - Haul routes inside reservoir                                                                                            | ACRES  | 132        | 11,135.46  | 1,469,880   | 100% | 132       | 11,135.46  | 1,469,880   | 100% | 132       | 11,135.46  | 1,469,880   | 100% | 132              | 11,135.46  | 1,469,880   |
|      | 01.06.00 | Developing haul routes - Haul routes outside reservoir                                                                                           | ACRES  | 81         | 11,135.94  | 902,011     | 100% | 81        | 11,135.94  | 902,011     | 100% | 81        | 11,135.94  | 902,011     | 100% | 81               | 11,135.94  | 902,011     |
|      | 01.07.00 | Developing Stockpile and Staging Areas                                                                                                           | ACRES  | 48         | 17,303.36  | 830,561     | 100% | 48        | 17,303.36  | 830,561     | 100% | 48        | 17,303.36  | 830,561     | 100% | 48               | 17,303.36  | 830,561     |
| 04   | 04.00.00 | FOUNDATION EXCAVATION                                                                                                                            |        |            |            | 19,333,456  |      |           |            | 19,333,456  |      |           |            | 19,333,456  |      |                  |            | 19,333,456  |
|      | 04.01.00 | Topsoil Salvage                                                                                                                                  | BCY    | 238,000    | 6.23       | 1,482,363   | 100% | 238,000   | 6.23       | 1,482,363   | 100% | 238,000   | 6.23       | 1,482,363   | 100% | 238,000          | 6.23       | 1,482,363   |
|      | 04.02.00 | Drill and Shoot Foundation                                                                                                                       | BCY    | 67,775     | 14.96      | 1,013,783   | 100% | 67,775    | 14.96      | 1,013,783   | 100% | 67,775    | 14.96      | 1,013,783   | 100% | 67,775           | 14.96      | 1,013,783   |
|      | 04.03.00 | Dam Foundation Excavation                                                                                                                        | BCY    | 1,355,500  | 11.83      | 16,037,310  | 100% | 1,355,500 | 11.83      | 16,037,310  | 100% | 1,355,500 | 11.83      | 16,037,310  | 100% | 1,355,500        | 11.83      | 16,037,310  |
|      | 04.05.00 | Dewatering allowance                                                                                                                             | Months | 24         | 33,333.33  | 800,000     | 100% | 24        | 33,333.33  | 800,000     | 100% | 24        | 33,333.33  | 800,000     | 100% | 24               | 33,333.33  | 800,000     |
| 05   | 05.00.00 | FOUNDATION PREPARATION - BENEATH CORE                                                                                                            |        |            |            | 21,775,170  |      |           |            | 21,775,170  |      |           |            | 21,775,170  |      |                  |            | 21,775,170  |
|      | 05.01.00 | Initial Foundation Cleaning - Core                                                                                                               | SY     | 65,400     | 25.67      | 1,678,943   | 100% | 65,400    | 25.67      | 1,678,943   | 100% | 65,400    | 25.67      | 1,678,943   | 100% | 65,400           | 25.67      | 1,678,943   |
|      | 05.02.00 | Final Foundation Cleaning - Core                                                                                                                 | SY     | 81,750     | 34.32      | 2,805,904   | 100% | 81,750    | 34.32      | 2,805,904   | 100% | 81,750    | 34.32      | 2,805,904   | 100% | 81,750           | 34.32      | 2,805,904   |
|      | 05.03.00 | Dental Excavation                                                                                                                                | CY     | 8,850      | 25.06      | 221,790     | 100% | 8,850     | 25.06      | 221,790     | 100% | 8,850     | 25.06      | 221,790     | 100% | 8,850            | 25.06      | 221,790     |
|      | 05.04.00 | Dental Concrete                                                                                                                                  | CY     | 8,850      | 529.27     | 4,684,064   | 100% | 8,850     | 529.27     | 4,684,064   | 100% | 8,850     | 529.27     | 4,684,064   | 100% | 8,850            | 529.27     | 4,684,064   |
|      | 05.05.00 | Backfill Concrete                                                                                                                                | CY     | 18,050     | 406.76     | 7,341,949   | 100% | 18,050    | 406.76     | 7,341,949   | 100% | 18,050    | 406.76     | 7,341,949   | 100% | 18,050           | 406.76     | 7,341,949   |
|      | 05.06.00 | Shaping Excavations                                                                                                                              | CY     | 1,350      | 28.57      | 38,572      | 100% | 1,350     | 28.57      | 38,572      | 100% | 1,350     | 28.57      | 38,572      | 100% | 1,350            | 28.57      | 38,572      |
|      | 05.07.00 | Slush Grout                                                                                                                                      | Sacks  | 19,650     | 254.65     | 5,003,948   | 100% | 19,650    | 254.65     | 5,003,948   | 100% | 19,650    | 254.65     | 5,003,948   | 100% | 19,650           | 254.65     | 5,003,948   |
| 06   | 06.00.00 | GROUTING                                                                                                                                         |        |            |            | 73,021,783  |      |           |            | 73,021,783  |      |           |            | 73,021,783  |      |                  |            | 73,021,783  |
|      | 06.01.00 | Grout Cap                                                                                                                                        | CY     | -          | -          | -           | 100% | -         | -          | -           | 100% | -         | -          | -           | 100% | -                | -          | -           |
|      | 06.02.00 | Grout Cap Anchors                                                                                                                                | LF     | -          | -          | -           | 100% | -         | -          | -           | 100% | -         | -          | -           | 100% | -                | -          | -           |
|      | 06.03.00 | Grout Cut Off Wall                                                                                                                               | CY     | 5,865      | 601.19     | 3,525,995   | 100% | 5,865     | 601.19     | 3,525,995   | 100% | 5,865     | 601.19     | 3,525,995   | 100% | 5,865            | 601.19     | 3,525,995   |
|      | 06.04.00 | Curtain Grouting - Includes Stich and Fans                                                                                                       | LF     | 270,500    | 192.16     | 51,980,030  | 100% | 270,500   | 192.16     | 51,980,030  | 100% | 270,500   | 192.16     | 51,980,030  | 100% | 270,500          | 192.16     | 51,980,030  |
|      | 06.05.00 | Consolidation Grouting                                                                                                                           | LF     | 83,900     | 185.21     | 15,539,525  | 100% | 83,900    | 185.21     | 15,539,525  | 100% | 83,900    | 185.21     | 15,539,525  | 100% | 83,900           | 185.21     | 15,539,525  |
|      | 06.06.00 | Type III Cement                                                                                                                                  | Tons   | 7,186      | 275.00     | 1,976,233   | 100% | 7,186     | 275.00     | 1,976,233   | 100% | 7,186     | 275.00     | 1,976,233   | 100% | 7,186            | 275.00     | 1,976,233   |
| 07   | 07.00.00 | FOUNDATION PREPARATION - BENEATH SHELL                                                                                                           |        |            |            | 1,228,672   |      |           |            | 1,228,672   |      |           |            | 1,228,672   |      |                  |            | 1,228,672   |
|      | 07.01.00 | Foundation Cleaning - Shell                                                                                                                      | SY     | 308,100    | 3.99       | 1,228,672   | 100% | 308,100   | 3.99       | 1,228,672   | 100% | 308,100   | 3.99       | 1,228,672   | 100% | 308,100          | 3.99       | 1,228,672   |
| 08   | 08.00.00 | FOUNDATION DRAINAGE                                                                                                                              |        |            |            | 1,476,396   |      |           |            | 1,476,396   |      |           |            | 1,476,396   |      |                  |            | 1,476,396   |
|      | 08.01.00 | Furnish and Install Foundation Drain Pipe                                                                                                        | LF     | 8,820      | 134.87     | 1,189,567   | 100% | 8,820     | 134.87     | 1,189,567   | 100% | 8,820     | 134.87     | 1,189,567   | 100% | 8,820            | 134.87     | 1,189,567   |
|      | 08.02.00 | Furnish and Install Foundation Drain Manholes                                                                                                    | EA     | 7          | 20,487.77  | 143,414     | 100% | 7         | 20,487.77  | 143,414     | 100% | 7         | 20,487.77  | 143,414     | 100% | 7                | 20,487.77  | 143,414     |
|      | 08.03.00 | Furnish and Install Inspection Well                                                                                                              | EA     | 7          | 20,487.77  | 143,414     | 100% | 7         | 20,487.77  | 143,414     | 100% | 7         | 20,487.77  | 143,414     | 100% | 7                | 20,487.77  | 143,414     |
| 09   | 09.00.00 | ROCK BORROW AREA - DEVELOP, PROCESSING, AND RESTORATION                                                                                          |        |            |            | 10,287,868  |      |           |            | 10,287,868  |      |           |            | 10,287,868  |      |                  |            | 10,287,868  |
|      | 09.01.00 | Strip/Overburden/Waste to Stockpile                                                                                                              | BCY    | -          | -          | -           | 100% | -         | -          | -           | 100% | -         | -          | -           | 100% | -                | -          | -           |
|      | 09.02.00 | Drill, Blast, Excavate to Crusher and Riprap Process                                                                                             | BCY    | 150,300    | 9.71       | 1,460,149   | 100% | 150,300   | 9.71       | 1,460,149   | 100% | 150,300   | 9.71       | 1,460,149   | 100% | 150,300          | 9.71       | 1,460,149   |
|      | 09.03.00 | Zone 4A, 4B, Zone 7A Processing                                                                                                                  | ECY    | 35,070     | 32.00      | 1,122,240   | 100% | 35,070    | 32.00      | 1,122,240   | 100% | 35,070    | 32.00      | 1,122,240   | 100% | 35,070           | 32.00      | 1,122,240   |
|      | 09.04.00 | Riprap and Groin Processing                                                                                                                      | ECY    | 115,230    | 30.00      | 3,456,900   | 100% | 115,230   | 30.00      | 3,456,900   | 100% | 115,230   | 30.00      | 3,456,900   | 100% | 115,230          | 30.00      | 3,456,900   |
|      | 09.05.00 | Removal of Excess Sand/Siltstone                                                                                                                 | BCY    | -          | -          | -           | 100% | -         | -          | -           | 100% | -         | -          | -           | 100% | -                | -          | -           |
|      | 09.06.00 | Replace Overburden from Stockpile                                                                                                                | ECY    | 252,500    | 7.46       | 1,884,230   | 100% | 252,500   | 7.46       | 1,884,230   | 100% | 252,500   | 7.46       | 1,884,230   | 100% | 252,500          | 7.46       | 1,884,230   |
|      | 09.07.00 | Topsoil Replacement                                                                                                                              | ECY    | 238,000    | 9.93       | 2,364,349   | 100% | 238,000   | 9.93       | 2,364,349   | 100% | 238,000   | 9.93       | 2,364,349   | 100% | 238,000          | 9.93       | 2,364,349   |
|      | 09.08.00 | Seeding                                                                                                                                          | SF     | -          | -          | -           | 100% | -         | -          | -           | 100% | -         | -          | -           | 100% | -                | -          | -           |
| 10   | 10.00.00 | EMBANKMENT                                                                                                                                       |        |            |            | 124,376,704 |      |           |            | 136,169,680 |      |           |            | 124,376,704 |      |                  |            | 129,274,826 |
|      | 10.01.00 | Furnish and Install Zone 1 - Core                                                                                                                | ECY    | 688,900    | 23.86      | 16,435,722  | 100% | 688,900   | 23.86      | 16,435,722  | 100% | 688,900   | 23.86      | 16,435,722  | 100% | 688,900          | 23.86      | 16,435,722  |
|      | 10.02.00 | Purchase, Haul and Place - Zone 2 - Filter                                                                                                       | ECY    | 186,013    | 149.56     | 27,820,826  | 1.25 | 232,516   | 149.56     | 34,776,032  | 100% | 186,013   | 149.56     | 27,820,826  | 100% | 186,013          | 149.56     | 27,820,826  |
|      | 10.03.00 | Purchase, Haul and Place - Zone 3 - Drain                                                                                                        | ECY    | 135,200    | 143.13     | 19,351,077  | 1.25 | 169,000   | 143.13     | 24,188,846  | 100% | 135,200   | 143.13     | 19,351,077  | 100% | 135,200          | 143.13     | 19,351,077  |
|      | 10.04.00 | Produce, Haul and Place - Zone 4A - Fine Transition                                                                                              | ECY    | -          | -          | -           | 100% | -         | -          | -           | 100% | -         | -          | -           | 100% | -                | -          | -           |
|      | 10.05.00 | Produce, Haul and Place - Zone 4B - Coarse Transition                                                                                            | ECY    | -          | -          | -           | 100% | -         | -          | -           | 100% | -         | -          | -           | 100% | -                | -          | -           |
|      | 10.06.00 | Produce, Haul and Place - Zone 8 - Fine Transition - Saddles                                                                                     | ECY    | 131,000    | 149.56     | 19,592,485  | 100% | 131,000   | 149.56     | 19,592,485  | 100% | 131,000   | 149.56     | 19,592,485  | 1.25 | 163,750          | 149.56     | 24,490,607  |
|      | 10.07.00 | Furnish and Install Zone 5&6 Sand/Siltstone - Rockfill                                                                                           | ECY    | -          | -          | -           | 100% | -         | -          | -           | 100% | -         | -          | -           | 100% | -                | -          | -           |
|      | 10.08.00 | Furnish and Install Zone - 9 Random                                                                                                              | ECY    | 3,362,742  | 10.99      | 36,967,697  | 100% | 3,362,742 | 10.99      | 36,967,697  | 100% | 3,362,742 | 10.99      | 36,967,697  | 100% | 3,362,742        | 10.99      | 36,967,697  |
|      | 10.09.00 | Produce, Haul and Place - Zone 7A - Bedding - Saddles                                                                                            | ECY    | 35,070     | 14.09      | 494,251     | 100% | 35,070    | 14.09      | 494,251     | 100% | 35,070    | 14.09      | 494,251     | 100% | 35,070           | 14.09      | 494,251     |
|      | 10.10.00 | Produce, Haul and Place - Zone 7B - Riprap                                                                                                       | ECY    | 110,180    | 32.23      | 3,550,909   | 100% | 110,180   | 32.23      | 3,550,909   | 100% | 110,180   | 32.23      | 3,550,909   | 100% | 110,180          | 32.23      | 3,550,909   |
|      | 10.11.00 | Produce, Haul and Place - Groin Protection - Saddles                                                                                             | ECY    | 5,050      | 32.42      | 163,738     | 100% | 5,050     | 32.42      | 163,738     | 100% | 5,050     | 32.42      | 163,738     | 100% | 5,050            | 32.42      | 163,738     |
| 11   | 11.00.00 | INSTRUMENTATION AND TELEMETRY                                                                                                                    |        |            |            | 2,297,000   |      |           |            | 2,297,000   |      |           |            | 2,297,000   |      |                  |            | 2,297,000   |
|      | 11.01.00 | Instrumentation/ Telemetry: Instrumentation/ Telemetry (piezometers, settlement monitors (survey monuments), seismographs, and slope indicators) | LS     | 3          | 765,666.67 | 2,297,000   | 100% | 3         | 765,666.67 | 2,297,000   | 100% | 3         | 765,666.67 | 2,297,000   | 100% | 3                | 765,666.67 | 2,297,000   |
| 12   | 12.00.00 | SITE RESTORATION                                                                                                                                 |        |            |            | 6,687,300   |      |           |            | 6,687,300   |      |           |            | 6,687,300   |      |                  |            | 6,687,300   |
|      | 12.01.00 | Seeding                                                                                                                                          | SF     | 1,000,000  | 0.43       | 429,800     | 100% | 1,000,000 | 0.43       | 429,800     | 100% | 1,000,000 | 0.43       | 429,800     | 100% | 1,000,000        | 0.43       | 429,800     |
|      | 12.02.00 | Fencing                                                                                                                                          | LF     | 2,100      | 75.00      | 157,500     | 100% | 2,100     | 75.00      | 157,500     | 100% | 2,100     | 75.00      | 157,500     | 100% | 2,100            | 75.00      | 157,500     |
|      | 12.03.00 | Best Management Practices                                                                                                                        | LS     | 3          | *****      | 3,300,000   | 100% | 3         | *****      | 3,300,000   | 100% | 3         | *****      | 3,300,000   | 100% | 3                | *****      | 3,300,000   |
|      | 12.04.00 | Rock Check Dams                                                                                                                                  | LS     | 3          | 466,666.67 | 1,400,000   | 100% | 3         | 466,666.67 | 1,400,000   | 100% | 3         | 466,666.67 | 1,400,000   | 100% | 3                | 466,666.67 | 1,400,000   |
|      | 12.05.00 | Drainage - Inlets, Culverts                                                                                                                      | LS     | 3          | 466,666.67 | 1,400,000   | 100% | 3         | 466,666.67 | 1,400,000   | 100% | 3         | 466,666.67 | 1,400,000   | 100% | 3                | 466,666.67 | 1,400,000   |
| 13   | 13.00.00 | RIM GROUTING                                                                                                                                     |        |            |            | 3,740,000   |      |           |            | 3,740,000   |      |           |            | 3,740,000   |      |                  |            | 3,740,000   |
|      | 13.01.00 | Rim Grouting                                                                                                                                     | LF     | 18,700     | 200.00     | 3,740,000   | 100% | 18,700    | 200.00     | 3,740,000   | 100% | 18,700    | 200.00     | 3,740,000   | 100% | 18,700           | 200.00     | 3,740,000   |

DIRECT COST LEVEL 2 SUMMARY

| Item    | Sub Item | Description                                            | UoM | 30% Design |           |             | ADJ  | F&D +25% |           |             | ADJ  | Not Used |           |             | ADJ  | Transitions +25% |           |             |
|---------|----------|--------------------------------------------------------|-----|------------|-----------|-------------|------|----------|-----------|-------------|------|----------|-----------|-------------|------|------------------|-----------|-------------|
|         |          |                                                        |     | Qty        | Unit Rate | Total       |      | Qty      | Unit Rate | Total       |      | Qty      | Unit Rate | Total       |      | Qty              | Unit Rate | Total       |
| 14      | 14.00.00 | SPILLWAY                                               |     |            |           | 6,243,627   |      |          |           | 6,243,627   |      |          |           | 6,243,627   |      |                  |           | 6,243,627   |
|         | 14.01.00 | Spillway Approach Channel Excavation                   | CY  | 25,080     | 16.50     | 413,816     | 100% | 25,080   | 16.50     | 413,816     | 100% | 25,080   | 16.50     | 413,816     | 100% | 25,080           | 16.50     | 413,816     |
|         | 14.02.00 | Spillway and Stilling Basin Slab, reinforced concrete  | CY  | 1,038      | 957.36    | 993,739     | 100% | 1,038    | 957.36    | 993,739     | 100% | 1,038    | 957.36    | 993,739     | 100% | 1,038            | 957.36    | 993,739     |
|         | 14.03.00 | Spillway and Stilling Basin walls, reinforced concrete | CY  | 585        | 2,059.50  | 1,204,807   | 100% | 585      | 2,059.50  | 1,204,807   | 100% | 585      | 2,059.50  | 1,204,807   | 100% | 585              | 2,059.50  | 1,204,807   |
|         | 14.04.00 | Spillway Stilling Basin Baffles                        | CY  | 11         | 1,989.52  | 21,885      | 100% | 11       | 1,989.52  | 21,885      | 100% | 11       | 1,989.52  | 21,885      | 100% | 11               | 1,989.52  | 21,885      |
|         | 14.05.00 | Cutoff walls under weir and stilling basin             | CY  | 147        | 1,820.43  | 267,603     | 100% | 147      | 1,820.43  | 267,603     | 100% | 147      | 1,820.43  | 267,603     | 100% | 147              | 1,820.43  | 267,603     |
|         | 14.06.00 | Spillway Wing walls                                    | CY  | 1,489      | 1,786.93  | 2,660,744   | 100% | 1,489    | 1,786.93  | 2,660,744   | 100% | 1,489    | 1,786.93  | 2,660,744   | 100% | 1,489            | 1,786.93  | 2,660,744   |
|         | 14.07.00 | Spillway Ogee Weir                                     | CY  | 329        | 1,693.54  | 557,176     | 100% | 329      | 1,693.54  | 557,176     | 100% | 329      | 1,693.54  | 557,176     | 100% | 329              | 1,693.54  | 557,176     |
|         | 14.08.00 | Backfill at Spillway                                   | CY  | 2,180      | 30.00     | 65,399      | 100% | 2,180    | 30.00     | 65,399      | 100% | 2,180    | 30.00     | 65,399      | 100% | 2,180            | 30.00     | 65,399      |
| Zone 4A | 14.09.00 | Riprap and Bedding at Spillway                         | CY  | 115        | 176.00    | 20,240      | 100% | 115      | 176.00    | 20,240      | 100% | 115      | 176.00    | 20,240      | 100% | 115              | 176.00    | 20,240      |
|         | 14.10.00 | Drainage                                               | CY  | 41         | 105.00    | 4,305       | 100% | 41       | 105.00    | 4,305       | 100% | 41       | 105.00    | 4,305       | 100% | 41               | 105.00    | 4,305       |
|         | 14.11.00 | Drainage - 6" PVC Pipe                                 | LF  | 357        | 95.00     | 33,914      | 100% | 357      | 95.00     | 33,914      | 100% | 357      | 95.00     | 33,914      | 100% | 357              | 95.00     | 33,914      |
| 15      | 15.00.00 | ALLOWANCE FOR UNLISTED ITEMS                           |     |            |           | 14,362,923  |      |          | -         | 14,952,572  |      |          | -         | 14,362,923  |      |                  | -         | 14,607,829  |
| x       | 15.01.00 | Allowance for Unlisted Items                           | %   | 5%         | #####     | 14,362,923  | 100% | 5%       | #####     | 14,952,572  | 100% | 5%       | #####     | 14,362,923  | 100% | 5%               | #####     | 14,607,829  |
|         |          | Total Direct Cost                                      |     |            |           | 301,621,384 |      |          |           | 314,004,008 |      |          |           | 301,621,384 |      |                  |           | 306,764,411 |

### Hydraulic Quantity Calculations

#### Excavation Rock Quality

| Description                        | Unit | Estimate | Risk Add | Risk Qty | Factor |
|------------------------------------|------|----------|----------|----------|--------|
| Steel Sets                         | Ea   | 316      | 1.50     | 474.0    | 1.50   |
| Excavation Rate Increase Allowance | LS   | 1.0      | 1.25     | 1.25     | 1.25   |

#### Ground Water

| Description                        | Unit | Estimate | Risk Add | Risk Qty | Factor |
|------------------------------------|------|----------|----------|----------|--------|
| Increased Grout                    | LF   | 38,000   | 1.50     | 57,000.0 | 1.50   |
| Increased Supports                 | LS   | 1.0      | 1.30     | 1.30     | 1.30   |
| Excavation Rate Increase Allowance | LS   | 1.0      | 1.35     | 1.35     | 1.35   |

#### Faults Along Tunnel Alignment

| Description                                  | Unit | Estimate | Risk Add | Risk Qty | Allowance  |
|----------------------------------------------|------|----------|----------|----------|------------|
| Articulated Joint or Other Measure Allowance | LS   |          |          |          | 20,000,000 |

#### Foundation Excavation & Portals - Used in Scenarios

| Description               | Unit | Estimate   | Risk Add | Risk         | Factor |
|---------------------------|------|------------|----------|--------------|--------|
| Excavation Volume -US&DS  | CY   | 737,000    | 1.25     | 921,250.0    | 1.25   |
| Concrete Volume - US      | CY   | 22,709     | 1.10     | 24,979.9     | 1.10   |
| Pipe Reconfiguration - US | LS   | 31,481,128 | 1.10     | 34,629,240.6 | 1.10   |

| Construction Cost Estimate                         |           |             |                                       |                                   |                                     |                       |                   |
|----------------------------------------------------|-----------|-------------|---------------------------------------|-----------------------------------|-------------------------------------|-----------------------|-------------------|
|                                                    |           | 30% Design  | Tunnel Excavation<br>Ground Stability | Tunnel Excavation Ground<br>Water | Tunnel Excavation Fault<br>Crossing | Foundation Excavation | Portal Excavation |
| Total Direct Cost                                  |           | 302,554,060 | 358,839,869                           | 334,323,215                       | 326,704,060                         | 313,516,637           | 317,091,605       |
| TOTAL DIRECT COST BEFORE CONTRACTOR INDIRECT COSTS |           | 302,554,060 | 358,839,869                           | 334,323,215                       | 326,704,060                         | 313,516,637           | 317,091,605       |
| Mobilization                                       | 5.0%      | 15,127,703  | 17,941,993                            | 16,716,161                        | 16,335,203                          | 15,675,832            | 15,854,580        |
| Field Overhead Costs (GC&GR)                       | 17.0%     | 54,005,900  | 64,052,916                            | 59,676,694                        | 58,316,675                          | 55,962,720            | 56,600,851        |
| Insurance                                          | 2.0%      | 7,433,753   | 8,816,696                             | 8,214,321                         | 8,027,119                           | 7,703,104             | 7,790,941         |
| Bonds                                              | 0.6%      | 2,274,728   | 2,697,909                             | 2,513,582                         | 2,456,298                           | 2,357,150             | 2,384,028         |
| Total Contractor Indirect Costs                    |           | 78,842,084  | 93,509,514                            | 87,120,758                        | 85,135,295                          | 81,698,806            | 82,630,400        |
| TOTAL CONTACTOR COSTS                              |           | 381,396,144 | 452,349,383                           | 421,443,973                       | 411,839,355                         | 395,215,443           | 399,722,005       |
| Home Office Overhead (G&A)                         | 6.5%      | 24,790,749  | 29,402,710                            | 27,393,858                        | 26,769,558                          | 25,689,004            | 25,981,930        |
| GC Profit                                          | 10.0%     | 40,618,689  | 48,175,209                            | 44,883,783                        | 43,860,891                          | 42,090,445            | 42,570,393        |
| Total Contractor Overhead and Profit               |           | 65,409,438  | 77,577,919                            | 72,277,641                        | 70,630,449                          | 67,779,449            | 68,552,323        |
| TOTAL CONSTRUCTION COST BEFORE CONTINGENCIES       |           | 446,805,582 | 529,927,302                           | 493,721,614                       | 482,469,804                         | 462,994,892           | 468,274,328       |
| Contingencies                                      |           |             |                                       |                                   |                                     |                       |                   |
| Design Contingencies                               | 10.0%     | 44,680,558  | 52,992,730                            | 49,372,161                        | 48,246,980                          | 46,299,489            | 46,827,433        |
| Construction Contingencies                         | 15.0%     | 73,722,921  | 87,438,005                            | 81,464,066                        | 79,607,518                          | 76,394,157            | 77,265,264        |
| Total Contingency Allowance                        |           | 118,403,479 | 140,430,735                           | 130,836,227                       | 127,854,498                         | 122,693,646           | 124,092,697       |
| TOTAL COST BEFORE ESCALATION                       |           | 565,209,061 | 670,358,037                           | 624,557,841                       | 610,324,302                         | 585,688,538           | 592,367,025       |
| Escalation to Mid-point of Construction            | By Others | 0%          | -                                     | -                                 | -                                   | -                     | -                 |
| RECOMMENDED CONSTRUCTION BUDGET                    |           | 565,209,061 | 670,358,037                           | 624,557,841                       | 610,324,302                         | 585,688,538           | 592,367,025       |
| Non-Contract Costs                                 | 15.0%     | 84,781,359  | 100,553,705                           | 93,683,676                        | 91,548,645                          | 87,853,281            | 88,855,054        |
| TOTAL ESTIMATE                                     |           | 649,990,421 | 770,911,742                           | 718,241,518                       | 701,872,948                         | 673,541,819           | 681,222,078       |
| ESTIMATE DIFFERENCE                                |           | -           | 120,921,321                           | 68,251,097                        | 51,882,527                          | 23,551,398            | 31,231,658        |
| ESTIMATE DIFFERENCE - Before Contingencies         |           | -           | 83,121,719                            | 46,916,032                        | 35,664,222                          | 16,189,310            | 21,468,745        |

Sites Reservoir  
Hydraulic Structures Contingency Estimates  
Sites, CA

Cost Estimate  
AACEI Class 3  
February 27, 2025

DIRECT COST LEVEL 2 SUMMARY

|      |          |                                                                      | 30% Cost Estimate |         |            |             |      |         | Tunnel Excavation Ground Stability |             |      | Tunnel Excavation Ground Water |            |             | Tunnel Excavation Fault Crossing |         |            |             |
|------|----------|----------------------------------------------------------------------|-------------------|---------|------------|-------------|------|---------|------------------------------------|-------------|------|--------------------------------|------------|-------------|----------------------------------|---------|------------|-------------|
| Item | Sub Item | Description                                                          | UoM               | Qty     | Unit Rate  | Total       |      | Qty     | Unit Rate                          | Total       |      | Qty                            | Unit Rate  | Total       |                                  | Qty     | Unit Rate  | Total       |
| 01   | 01.00.00 | PRECONSTRUCTION ACTIVITIES                                           |                   |         |            | 634,480     |      |         |                                    | 634,480     |      |                                |            | 634,480     |                                  |         |            | 634,480     |
|      | 01.02.00 | Clearing and Grubbing                                                | ACRE              | 5       | 10,241     | 51,205      | 100% | 5       | 10,241                             | 51,205      | 100% | 5                              | 10,241     | 51,205      | 100%                             | 5       | 10,241     | 51,205      |
|      | 01.04.00 | Erosion and Sediment Control                                         | ACRE              | 5       | 108,000    | 540,000     | 100% | 5       | 108,000                            | 540,000     | 100% | 5                              | 108,000    | 540,000     | 100%                             | 5       | 108,000    | 540,000     |
|      | 01.07.00 | Developing Stockpile and Staging Areas                               | ACRES             | 3       | 17,310     | 43,275      | 100% | 3       | 17,310                             | 43,275      | 100% | 3                              | 17,310     | 43,275      | 100%                             | 3       | 17,310     | 43,275      |
| 02   | 02.00.00 | UPSTREAM APPROACH AND PORTAL                                         |                   |         |            | 23,109,345  |      |         |                                    | 28,886,682  |      |                                |            | 23,109,345  |                                  |         |            | 23,109,345  |
|      | 02.01.00 | Excavation - Approach Channel                                        | BCY               | 340,000 | 28         | 9,666,965   | 125% | 425,000 | 28                                 | 12,083,707  | 100% | 340,000                        | 28         | 9,666,965   | 100%                             | 340,000 | 28         | 9,666,965   |
|      | 02.02.00 | Rock Bolts - Approach Channel                                        | EA                | 270     | 3,497      | 944,203     | 125% | 338     | 3,497                              | 1,180,254   | 100% | 270                            | 3,497      | 944,203     | 100%                             | 270     | 3,497      | 944,203     |
|      | 02.03.00 | Excavation - Upstream Portal Including the Sloping Intake Excavation | BCY               | 266,000 | 30         | 8,017,306   | 125% | 332,500 | 30                                 | 10,021,633  | 100% | 266,000                        | 30         | 8,017,306   | 100%                             | 266,000 | 30         | 8,017,306   |
|      | 02.04.00 | Rock Bolts                                                           | EA                | 206     | 3,491      | 718,175     | 125% | 257     | 3,491                              | 897,718     | 100% | 206                            | 3,491      | 718,175     | 100%                             | 206     | 3,491      | 718,175     |
|      | 02.05.00 | Soil Nails - Passive anchors                                         | EA                | 303     | 5,382      | 1,632,591   | 125% | 379     | 5,382                              | 2,040,739   | 100% | 303                            | 5,382      | 1,632,591   | 100%                             | 303     | 5,382      | 1,632,591   |
|      | 02.06.00 | Shotcrete Portal Face                                                | CY                | 1,520   | 859        | 1,306,205   | 125% | 1,900   | 859                                | 1,632,757   | 100% | 1,520                          | 859        | 1,306,205   | 100%                             | 1,520   | 859        | 1,306,205   |
|      | 02.07.00 | Portal Cleaning and Mapping                                          | SY                | 4,560   | 75         | 343,900     | 125% | 5,700   | 75                                 | 429,875     | 100% | 4,560                          | 75         | 343,900     | 100%                             | 4,560   | 75         | 343,900     |
|      | 02.08.00 | Dewatering allowance                                                 | Months            | 12      | 40,000     | 480,000     | 125% | 15      | 40,000                             | 600,000     | 100% | 12                             | 40,000     | 480,000     | 100%                             | 12      | 40,000     | 480,000     |
| 03   | 03.00.00 | INTAKE STRUCTURE - CONCRETE                                          |                   |         |            | 3,440,896   |      |         |                                    | 3,784,986   |      |                                |            | 3,440,896   |                                  |         |            | 3,440,896   |
|      | 03.01.00 | Slab                                                                 | CY                | -       | -          | -           | 110% | -       | -                                  | -           | 100% | -                              | -          | -           | 100%                             | -       | -          | -           |
|      | 03.02.00 | Mass Concrete (intake structure)                                     | CY                | 3,040   | 1,063      | 3,232,756   | 110% | 3,344   | 1,063                              | 3,556,032   | 100% | 3,040                          | 1,063      | 3,232,756   | 100%                             | 3,040   | 1,063      | 3,232,756   |
|      | 03.03.00 | Piles                                                                | LF                | 447     | 465        | 208,140     | 110% | 492     | 465                                | 228,954     | 100% | 447                            | 465        | 208,140     | 100%                             | 447     | 465        | 208,140     |
| 04   | 04.00.00 | SLOPING INTAKE - CONCRETE                                            |                   |         |            | 22,538,853  |      |         |                                    | 22,538,853  |      |                                |            | 22,538,853  |                                  |         |            | 22,538,853  |
|      | 04.01.00 | Slab                                                                 | CY                | 1,147   | 873        | 1,001,570   | 100% | 1,147   | 873                                | 1,001,570   | 100% | 1,147                          | 873        | 1,001,570   | 100%                             | 1,147   | 873        | 1,001,570   |
|      | 04.02.00 | Mass Concrete - At Base                                              | CY                | 6,102   | 985        | 6,012,621   | 100% | 6,102   | 985                                | 6,012,621   | 100% | 6,102                          | 985        | 6,012,621   | 100%                             | 6,102   | 985        | 6,012,621   |
|      | 04.03.00 | Mass Concrete - Sloping Intake                                       | CY                | 12,420  | 1,179      | 14,642,742  | 100% | 12,420  | 1,179                              | 14,642,742  | 100% | 12,420                         | 1,179      | 14,642,742  | 100%                             | 12,420  | 1,179      | 14,642,742  |
|      | 04.04.00 | Piles                                                                | LF                | 1,806   | 488        | 881,920     | 100% | 1,806   | 488                                | 881,920     | 100% | 1,806                          | 488        | 881,920     | 100%                             | 1,806   | 488        | 881,920     |
| 05   | 05.00.00 | SLOPING INTAKE STRUCTURE - MECHANICAL                                |                   |         |            | 46,632,128  |      |         |                                    | 46,632,128  |      |                                |            | 46,632,128  |                                  |         |            | 46,632,128  |
|      | 05.01.10 | 9" Butterfly Valves                                                  | EA                | 2       | 966,500    | 1,933,000   | 100% | 2       | 966,500                            | 1,933,000   | 100% | 2                              | 966,500    | 1,933,000   | 100%                             | 2       | 966,500    | 1,933,000   |
|      | 05.01.20 | 8" Butterfly Valves                                                  | EA                | 12      | 901,500    | 10,818,000  | 100% | 12      | 901,500                            | 10,818,000  | 100% | 12                             | 901,500    | 10,818,000  | 100%                             | 12      | 901,500    | 10,818,000  |
|      | 05.02.00 | Trash Rack                                                           | TON               | 125     | 19,200     | 2,400,000   | 100% | 125     | 19,200                             | 2,400,000   | 100% | 125                            | 19,200     | 2,400,000   | 100%                             | 125     | 19,200     | 2,400,000   |
|      | 05.03.00 | Piping - Materials                                                   | LS                | 1       | 26,430,110 | 26,430,110  | 100% | 1       | 26,430,110                         | 26,430,110  | 100% | 1                              | 26,430,110 | 26,430,110  | 100%                             | 1       | 26,430,110 | 26,430,110  |
|      | 05.04.00 | Piping - Installation                                                | LS                | 1       | 5,051,018  | 5,051,018   | 100% | 1       | 5,051,018                          | 5,051,018   | 100% | 1                              | 5,051,018  | 5,051,018   | 100%                             | 1       | 5,051,018  | 5,051,018   |
| 06   | 06.00.00 | DOWNSTREAM PORTAL                                                    |                   |         |            | 21,879,876  |      |         |                                    | 27,349,844  |      |                                |            | 21,879,876  |                                  |         |            | 21,879,876  |
|      | 06.01.00 | Excavation - Structural Excavation                                   | BCY               | 131,000 | 28         | 3,728,348   | 125% | 163,750 | 28                                 | 4,660,435   | 100% | 131,000                        | 28         | 3,728,348   | 100%                             | 131,000 | 28         | 3,728,348   |
|      | 06.02.00 | Rock Bolts                                                           | EA                | 40      | 3,788      | 151,504     | 125% | 50      | 3,788                              | 189,380     | 100% | 40                             | 3,788      | 151,504     | 100%                             | 40      | 3,788      | 151,504     |
|      | 06.03.00 | Soil Nails - Passive anchors                                         | EA                | 1,267   | 11,818     | 14,970,023  | 125% | 1,583   | 11,818                             | 18,712,529  | 100% | 1,267                          | 11,818     | 14,970,023  | 100%                             | 1,267   | 11,818     | 14,970,023  |
|      | 06.04.00 | Shotcrete Portal Face                                                | CY                | 2,550   | 1,000      | 2,550,000   | 125% | 3,188   | 1,000                              | 3,187,500   | 100% | 2,550                          | 1,000      | 2,550,000   | 100%                             | 2,550   | 1,000      | 2,550,000   |
|      | 06.06.00 | Dewatering allowance                                                 | Months            | 12      | 40,000     | 480,000     | 125% | 15      | 40,000                             | 600,000     | 100% | 12                             | 40,000     | 480,000     | 100%                             | 12      | 40,000     | 480,000     |
| 08   | 08.00.00 | CONTROL HOUSE                                                        |                   |         |            | 2,100,000   |      |         |                                    | 2,100,000   |      |                                |            | 2,100,000   |                                  |         |            | 2,100,000   |
|      | 08.01.00 | Control House                                                        | LS                |         |            |             |      |         |                                    |             |      |                                |            |             |                                  |         |            |             |
|      | 08.01.10 | Building - Allowance                                                 | SF                | 450     | 1,000      | 450,000     | 100% | 450     | 1,000                              | 450,000     | 100% | 450                            | 1,000      | 450,000     | 100%                             | 450     | 1,000      | 450,000     |
|      | 08.01.20 | HPU Unit                                                             | LS                | 1       | 800,000    | 800,000     | 100% | 1       | 800,000                            | 800,000     | 100% | 1                              | 800,000    | 800,000     | 100%                             | 1       | 800,000    | 800,000     |
|      | 08.01.30 | Controls - Allowance                                                 | LS                | 1       | 350,000    | 350,000     | 100% | 1       | 350,000                            | 350,000     | 100% | 1                              | 350,000    | 350,000     | 100%                             | 1       | 350,000    | 350,000     |
|      | 08.01.40 | Electrical to Structure - Allowance                                  | LS                | 1       | 500,000    | 500,000     | 100% | 1       | 500,000                            | 500,000     | 100% | 1                              | 500,000    | 500,000     | 100%                             | 1       | 500,000    | 500,000     |
| 09   | 09.00.00 | I-O Tunnel                                                           |                   |         |            | 167,511,447 |      |         |                                    | 209,525,583 |      |                                |            | 197,767,784 |                                  |         |            | 190,511,447 |
|      | 09.01.00 | I/O Tunnel                                                           | Feet              | 3,157   |            |             |      |         |                                    |             |      |                                |            |             |                                  |         |            |             |
|      | 09.01.10 | Pre-Excavation Drilling and Grouting                                 | LF                | 38,000  | 250        | 9,500,000   | 125% | 47,500  | 250                                | 11,875,000  | 150% | 57,000                         | 250        | 14,250,000  | 100%                             | 38,000  | 250        | 9,500,000   |
|      | 09.01.20 | Excavation                                                           | BCY               | 62,654  | 600        | 37,592,400  | 125% | 78,318  | 600                                | 46,990,500  | 135% | 84,583                         | 600        | 50,749,740  | 100%                             | 62,654  | 600        | 37,592,400  |
|      | 09.01.30 | Excavation Support - Steel Sets                                      | Ea                | 316     | 1,500      | 474,000     | 150% | 474     | 1,500                              | 711,000     | 130% | 411                            | 1,500      | 616,200     | 100%                             | 316     | 1,500      | 474,000     |
|      | 09.01.40 | Excavation Support - Rock Anchors                                    | LF                | 36,985  | 150        | 5,547,750   | 125% | 46,231  | 150                                | 6,934,688   | 130% | 48,081                         | 150        | 7,212,075   | 100%                             | 36,985  | 150        | 5,547,750   |
|      | 09.01.50 | Floor - Mud Mat                                                      | CY                | 1,353   | 500        | 676,500     | 125% | 1,691   | 500                                | 845,625     | 135% | 1,827                          | 500        | 913,275     | 100%                             | 1,353   | 500        | 676,500     |
|      | 09.01.60 | Shotcrete                                                            | CY                | 4,823   | 350        | 1,688,050   | 125% | 6,029   | 350                                | 2,110,063   | 135% | 6,511                          | 350        | 2,278,868   | 100%                             | 4,823   | 350        | 1,688,050   |
|      | 09.01.70 | Steel Pipe                                                           | TONS              | 5,524   | 12,981     | 71,702,725  | 125% | 6,905   | 12,981                             | 89,628,407  | 135% | 7,457                          | 12,981     | 96,798,679  | 100%                             | 5,524   | 12,981     | 71,702,725  |
|      | 09.01.71 | Steel Pipe - Weld Seams in Field                                     | LF                | 9,471   | 620        | 5,872,020   | 125% | 11,839  | 620                                | 7,340,020   | 135% | 12,786                         | 620        | 7,927,222   | 100%                             | 9,471   | 620        | 5,872,020   |
|      | 09.01.80 | LDDC Fill                                                            | CY                | 23,502  | 500        | 11,750,920  | 125% | 29,377  | 500                                | 14,688,650  | 135% | 31,727                         | 500        | 15,863,742  | 100%                             | 23,502  | 500        | 11,750,920  |
|      | 09.01.90 | Concrete Fill                                                        | CY                | 691     | 1,000      | 690,530     | 125% | 863     | 1,000                              | 863,163     | 135% | 932                            | 1,000      | 932,216     | 100%                             | 691     | 1,000      | 690,530     |
|      | 09.01.11 | Rebar for Concrete Encasement                                        | TONS              | 35      | 4,800      | 167,232     | 125% | 44      | 4,800                              | 209,040     | 135% | 47                             | 4,800      | 225,763     | 100%                             | 35      | 4,800      | 167,232     |
|      | 09.01.12 | Allowance for Unlisted Items                                         | %                 | 15%     |            | 21,849,319  | 100% | 0       | -                                  | 27,329,424  |      | -                              | -          | -           | 100%                             | 0       | -          | 24,849,319  |
| 10   | 10.00.00 | SITE RESTORATION                                                     |                   |         |            | 299,700     |      |         |                                    | 299,700     |      |                                |            | 299,700     |                                  |         |            | 299,700     |
|      | 10.01.00 | Seeding                                                              | SF                | 40,000  | 0          | 17,200      | 100% | 40,000  | 0                                  | 17,200      | 100% | 40,000                         | 0          | 17,200      | 100%                             | 40,000  | 0          | 17,200      |
|      | 10.02.00 | Fencing                                                              | LS                | 300     | 75         | 22,500      | 100% | 300     | 75                                 | 22,500      | 100% | 300                            | 75         | 22,500      | 100%                             | 300     | 75         | 22,500      |
|      | 10.03.00 | Best Management Practices                                            | LS                | 1       | 140,000    | 140,000     | 100% | 1       | 140,000                            | 140,000     | 100% | 1                              | 140,000    | 140,000     | 100%                             | 1       | 140,000    | 140,000     |
|      | 10.04.00 | Rock Check Dams                                                      | LS                | 1       | 60,000     | 60,000      | 100% | 1       | 60,000                             | 60,000      | 100% | 1                              | 60,000     | 60,000      | 100%                             | 1       | 60,000     | 60,000      |
|      | 10.05.00 | Drainage - Inlets, Culverts                                          | LS                | 1       | 60,000     | 60,000      | 100% | 1       | 60,000                             | 60,000      | 100% | 1                              | 60,000     | 60,000      | 100%                             | 1       | 60,000     | 60,000      |
| 11   | 11.00.00 | ALLOWANCE FOR UNLISTED ITEMS                                         |                   |         |            | 14,         |      |         |                                    |             |      |                                |            |             |                                  |         |            |             |

Sites Reservoir  
Hydraulic Structures Contingency Estimates  
Sites, CA

Cost Estimate  
AACEI Class 3  
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DIRECT COST LEVEL 2 SUMMARY

| Item | Sub Item | Description                                                           | UoM    | 30% Cost Estimate |            |             |
|------|----------|-----------------------------------------------------------------------|--------|-------------------|------------|-------------|
|      |          |                                                                       |        | Qty               | Unit Rate  | Total       |
| 01   | 01.00.00 | PRECONSTRUCTION ACTIVITIES                                            |        |                   |            | 634,480     |
|      | 01.02.00 | Clearing and Grubbing                                                 | ACRE   | 5                 | 10,241     | 51,205      |
|      | 01.04.00 | Erosion and Sediment Control                                          | ACRE   | 5                 | 108,000    | 540,000     |
|      | 01.07.00 | Developing Stockpile and Staging Areas                                | ACRES  | 3                 | 17,310     | 43,275      |
| 02   | 02.00.00 | UPSTREAM APPROACH AND PORTAL                                          |        |                   |            | 23,109,345  |
|      | 02.01.00 | Excavation - Approach Channel                                         | BCY    | 340,000           | 28         | 9,666,965   |
|      | 02.02.00 | Rock Bolts - Approach Channel                                         | EA     | 270               | 3,497      | 944,203     |
|      | 02.03.00 | Excavation - Upstream Portal Including the Stopping Intake Excavation | BCY    | 266,000           | 30         | 8,017,306   |
|      | 02.04.00 | Rock Bolts                                                            | EA     | 206               | 3,491      | 718,175     |
|      | 02.05.00 | Soil Nails - Passive anchors                                          | EA     | 303               | 5,382      | 1,632,591   |
|      | 02.06.00 | Shotcrete Portal Face                                                 | CY     | 1,520             | 859        | 1,306,205   |
|      | 02.07.00 | Portal Cleaning and Mapping                                           | SY     | 4,560             | 75         | 343,900     |
|      | 02.08.00 | Dewatering allowance                                                  | Months | 12                | 40,000     | 480,000     |
| 03   | 03.00.00 | INTAKE STRUCTURE - CONCRETE                                           |        |                   |            | 3,440,896   |
|      | 03.01.00 | Slab                                                                  | CY     | -                 | -          | -           |
|      | 03.02.00 | Mass Concrete (intake structure)                                      | CY     | 3,040             | 1,063      | 3,232,756   |
|      | 03.03.00 | Piles                                                                 | LF     | 447               | 465        | 208,140     |
| 04   | 04.00.00 | SLOPING INTAKE - CONCRETE                                             |        |                   |            | 22,538,853  |
|      | 04.01.00 | Slab                                                                  | CY     | 1,147             | 873        | 1,001,570   |
|      | 04.02.00 | Mass Concrete - At Base                                               | CY     | 6,102             | 985        | 6,012,621   |
|      | 04.03.00 | Mass Concrete - Sloping Intake                                        | CY     | 12,420            | 1,179      | 14,642,742  |
|      | 04.04.00 | Piles                                                                 | LF     | 1,806             | 488        | 881,920     |
| 05   | 05.00.00 | SLOPING INTAKE STRUCTURE - MECHANICAL                                 |        |                   |            | 46,632,128  |
|      | 05.01.10 | 9" Butterfly Valves                                                   | EA     | 2                 | 966,500    | 1,933,000   |
|      | 05.01.20 | 8" Butterfly Valves                                                   | EA     | 12                | 901,500    | 10,818,000  |
|      | 05.02.00 | Trash Rack                                                            | TON    | 125               | 19,200     | 2,400,000   |
|      | 05.03.00 | Piping - Materials                                                    | LS     | 1                 | 26,430,110 | 26,430,110  |
|      | 05.04.00 | Piping - Installation                                                 | LS     | 1                 | 5,051,018  | 5,051,018   |
| 06   | 06.00.00 | DOWNSTEAM PORTAL                                                      |        |                   |            | 21,879,876  |
|      | 06.01.00 | Excavation - Structural Excavation                                    | BCY    | 131,000           | 28         | 3,728,348   |
|      | 06.02.00 | Rock Bolts                                                            | EA     | 40                | 3,788      | 151,504     |
|      | 06.03.00 | Soil Nails - Passive anchors                                          | EA     | 1,267             | 11,818     | 14,970,023  |
|      | 06.04.00 | Shotcrete Portal Face                                                 | CY     | 2,550             | 1,000      | 2,550,000   |
|      | 06.06.00 | Dewatering allowance                                                  | Months | 12                | 40,000     | 480,000     |
| 08   | 08.00.00 | CONTROL HOUSE                                                         |        |                   |            | 2,100,000   |
|      | 08.01.00 | Control House                                                         | LS     |                   |            |             |
|      | 08.01.10 | Building - Allowance                                                  | SF     | 450               | 1,000      | 450,000     |
|      | 08.01.20 | HPU Unit                                                              | LS     | 1                 | 800,000    | 800,000     |
|      | 08.01.30 | Controls - Allowance                                                  | LS     | 1                 | 350,000    | 350,000     |
|      | 08.01.40 | Electrical to Structure - Allowance                                   | LS     | 1                 | 500,000    | 500,000     |
| 09   | 09.00.00 | I-O Tunnel                                                            |        |                   |            | 167,511,447 |
|      | 09.01.00 | I/O Tunnel                                                            | Feet   | 3,157             |            |             |
|      | 09.01.10 | Pre-Excavation Drilling and Grouting                                  | LF     | 38,000            | 250        | 9,500,000   |
|      | 09.01.20 | Excavation                                                            | BCY    | 62,654            | 600        | 37,592,400  |
|      | 09.01.30 | Excavation Support - Steel Sets                                       | Ea     | 316               | 1,500      | 474,000     |
|      | 09.01.40 | Excavation Support - Rock Anchors                                     | LF     | 36,985            | 150        | 5,547,750   |
|      | 09.01.50 | Floor - Mud Mat                                                       | CY     | 1,353             | 500        | 676,500     |
|      | 09.01.60 | Shotcrete                                                             | CY     | 4,823             | 350        | 1,688,050   |
|      | 09.01.70 | Steel Pipe                                                            | TONS   | 5,524             | 12,981     | 71,702,725  |
|      | 09.01.71 | Steel Pipe - Weld Seams in Field                                      | LF     | 9,471             | 620        | 5,872,020   |
|      | 09.01.80 | LDCC Fill                                                             | CY     | 23,502            | 500        | 11,750,920  |
|      | 09.01.90 | Concrete Fill                                                         | CY     | 691               | 1,000      | 690,530     |
|      | 09.01.11 | Rebar for Concrete Encasement                                         | TONS   | 35                | 4,800      | 167,232     |
|      | 09.01.12 | Allowance for Unlisted Items                                          | %      | 15%               |            | 21,849,319  |
| 10   | 10.00.00 | SITE RESTORATION                                                      |        |                   |            | 299,700     |
|      | 10.01.00 | Seeding                                                               | SF     | 40,000            | 0          | 17,200      |
|      | 10.02.00 | Fencing                                                               | LS     | 300               | 75         | 22,500      |
|      | 10.03.00 | Best Management Practices                                             | LS     | 1                 | 140,000    | 140,000     |
|      | 10.04.00 | Rock Check Dams                                                       | LS     | 1                 | 60,000     | 60,000      |
|      | 10.05.00 | Drainage - Inlets, Culverts                                           | LS     | 1                 | 60,000     | 60,000      |
| 11   | 11.00.00 | ALLOWANCE FOR UNLISTED ITEMS                                          |        |                   |            | 14,407,336  |
|      | 11.01.00 | Allowance for Unlisted Items                                          | %      | 5%                |            | 14,407,336  |
|      |          | Total Direct Cost                                                     | LS     |                   |            | 302,554,060 |

| ADJ  | Foundation Excavation |            |             | ADJ  | Portal Excavation |            |             |
|------|-----------------------|------------|-------------|------|-------------------|------------|-------------|
|      | Qty                   | Unit Rate  | Total       |      | Qty               | Unit Rate  | Total       |
|      |                       |            | 634,480     |      |                   |            | 634,480     |
| 100% | 5                     | 10,241     | 51,205      | 100% | 5                 | 10,241     | 51,205      |
| 100% | 5                     | 108,000    | 540,000     | 100% | 5                 | 108,000    | 540,000     |
| 100% | 3                     | 17,310     | 43,275      | 100% | 3                 | 17,310     | 43,275      |
|      |                       |            | 28,886,682  |      |                   |            | 28,886,682  |
| 125% | 425,000               | 28         | 12,083,707  | 125% | 425,000           | 28         | 12,083,707  |
| 125% | 338                   | 3,497      | 1,180,254   | 125% | 338               | 3,497      | 1,180,254   |
| 125% | 332,500               | 30         | 10,021,633  | 125% | 332,500           | 30         | 10,021,633  |
| 125% | 257                   | 3,491      | 897,718     | 125% | 257               | 3,491      | 897,718     |
| 125% | 379                   | 5,382      | 2,040,739   | 125% | 379               | 5,382      | 2,040,739   |
| 125% | 1,900                 | 859        | 1,632,757   | 125% | 1,900             | 859        | 1,632,757   |
| 125% | 5,700                 | 75         | 429,875     | 125% | 5,700             | 75         | 429,875     |
| 125% | 15                    | 40,000     | 600,000     | 125% | 15                | 40,000     | 600,000     |
|      |                       |            | 3,440,896   |      |                   |            | 3,784,986   |
| 100% | -                     | -          | -           | 110% | -                 | -          | -           |
| 100% | 3,040                 | 1,063      | 3,232,756   | 110% | 3,344             | 1,063      | 3,556,032   |
| 100% | 447                   | 465        | 208,140     | 110% | 492               | 465        | 228,954     |
|      |                       |            | 22,538,853  |      |                   |            | 24,792,738  |
| 100% | 1,147                 | 873        | 1,001,570   | 110% | 1,262             | 873        | 1,101,727   |
| 100% | 6,102                 | 985        | 6,012,621   | 110% | 6,712             | 985        | 6,613,883   |
| 100% | 12,420                | 1,179      | 14,642,742  | 110% | 13,662            | 1,179      | 16,107,016  |
| 100% | 1,806                 | 488        | 881,920     | 110% | 1,986             | 488        | 970,112     |
|      |                       |            | 51,295,341  |      |                   |            | 46,632,128  |
| 110% | 2                     | 966,500    | 2,126,300   | 100% | 2                 | 966,500    | 1,933,000   |
| 110% | 13                    | 901,500    | 11,899,800  | 100% | 12                | 901,500    | 10,818,000  |
| 110% | 138                   | 19,200     | 2,640,000   | 100% | 125               | 19,200     | 2,400,000   |
| 110% | 1                     | 26,430,110 | 29,073,121  | 100% | 1                 | 26,430,110 | 26,430,110  |
| 110% | 1                     | 5,051,018  | 5,556,120   | 100% | 1                 | 5,051,018  | 5,051,018   |
|      |                       |            | 21,879,876  | 125% |                   |            | 27,349,844  |
| 100% | 131,000               | 28         | 3,728,348   | 125% | 163,750           | 28         | 4,660,435   |
| 100% | 40                    | 3,788      | 151,504     | 125% | 50                | 3,788      | 189,380     |
| 100% | 1,267                 | 11,818     | 14,970,023  | 125% | 1,583             | 11,818     | 18,712,529  |
| 100% | 2,550                 | 1,000      | 2,550,000   | 125% | 3,188             | 1,000      | 3,187,500   |
| 100% | 12                    | 40,000     | 480,000     | 125% | 15                | 40,000     | 600,000     |
|      |                       |            | 2,100,000   |      |                   |            | 2,100,000   |
| 100% | 450                   | 1,000      | 450,000     | 100% | 450               | 1,000      | 450,000     |
| 100% | 1                     | 800,000    | 800,000     | 100% | 1                 | 800,000    | 800,000     |
| 100% | 1                     | 350,000    | 350,000     | 100% | 1                 | 350,000    | 350,000     |
| 100% | 1                     | 500,000    | 500,000     | 100% | 1                 | 500,000    | 500,000     |
|      |                       |            | 167,511,447 |      |                   |            | 167,511,447 |
| 100% | 38,000                | 250        | 9,500,000   | 100% | 38,000            | 250        | 9,500,000   |
| 100% | 62,654                | 600        | 37,592,400  | 100% | 62,654            | 600        | 37,592,400  |
| 100% | 316                   | 1,500      | 474,000     | 100% | 316               | 1,500      | 474,000     |
| 100% | 36,985                | 150        | 5,547,750   | 100% | 36,985            | 150        | 5,547,750   |
| 100% | 1,353                 | 500        | 676,500     | 100% | 1,353             | 500        | 676,500     |
| 100% | 4,823                 | 350        | 1,688,050   | 100% | 4,823             | 350        | 1,688,050   |
| 100% | 5,524                 | 12,981     | 71,702,725  | 100% | 5,524             | 12,981     | 71,702,725  |
| 100% | 9,471                 | 620        | 5,872,020   | 100% | 9,471             | 620        | 5,872,020   |
| 100% | 23,502                | 500        | 11,750,920  | 100% | 23,502            | 500        | 11,750,920  |
| 100% | 691                   | 1,000      | 690,530     | 100% | 691               | 1,000      | 690,530     |
| 100% | 35                    | 4,800      | 167,232     | 100% | 35                | 4,800      | 167,232     |
| 100% | 0                     | -          | 21,849,319  | 100% | 0                 | -          | 21,849,319  |
|      |                       |            | 299,700     |      |                   |            | 299,700     |
| 100% | 40,000                | 0          | 17,200      | 100% | 40,000            | 0          | 17,200      |
| 100% | 300                   | 75         | 22,500      | 100% | 300               | 75         | 22,500      |
| 100% | 1                     | 140,000    | 140,000     | 100% | 1                 | 140,000    | 140,000     |
| 100% | 1                     | 60,000     | 60,000      | 100% | 1                 | 60,000     | 60,000      |
| 100% | 1                     | 60,000     | 60,000      | 100% | 1                 | 60,000     | 60,000      |
|      |                       |            | 14,929,364  |      |                   |            | 15,099,600  |
| 100% | 5%                    | -          | 14,929,364  | 100% | 5%                | -          | 15,099,600  |
|      |                       |            | 313,516,637 |      |                   |            | 317,091,605 |

### Road Quantity Calculations

#### New Added Road

| Description                                                   | Unit | All Roads | SLR Detour | Risk - Add 1.5 Miles | Factor |
|---------------------------------------------------------------|------|-----------|------------|----------------------|--------|
| Length                                                        | Mile | 50        | 1.3        | 2.0                  |        |
| Roadway Excavation - Load, Haul, Compact                      | CY   | 1,407,210 | 148,340    | 233,767              | 117%   |
| Roadway Excavation - Load, Haul, Compact - Excess             | CY   | 3,458,746 | 662,910    | 1,044,669            | 130%   |
| Roadway Excavation - Rock Cut - Load, Haul, Stockpile         | CY   | 3,078,193 | 689,560    | 1,086,667            | 135%   |
| Causeway Borrow                                               | CY   | 4,264,250 | -          | -                    | 100%   |
| Hot Mix Asphalt (Type A)                                      | TON  | 78,265    | 1,620      | 2,553                | 103%   |
| Class 2 Aggregate Base                                        | CY   | 472,894   | 8,640      | 13,616               | 103%   |
| Shoulder Backing (Class 2 AB Material Daylight To Side Slope) | TON  | 251,340   | 7,040      | 11,094               | 104%   |
| Full Depth Reclamation-Cement                                 | SQYD | 104,570   | -          | -                    | 100%   |
| Retaining Wall - MSE Wall                                     | SF   | 35,247    | -          | -                    | 100%   |
| Retaining Wall - Tie-Back Wall                                | SF   | 190,443   | 87,415     | 137,755              | 172%   |

#### Structural Section Increases by 25%

| Description                              |  |  |  |  | Factor |
|------------------------------------------|--|--|--|--|--------|
| Simple Factor to all structural sections |  |  |  |  | 125%   |

#### Rock Excavation - 60% to 80%

| Description                  | Unit | Qty       | Estimate % | Risk % | Factor |
|------------------------------|------|-----------|------------|--------|--------|
| Estimate Rock Excavation Qty | CY   | 3,078,193 | 60%        | 80%    | 133%   |

#### Retaining Wall Increase 100%

| Description                          |  |  |  |  | Factor |
|--------------------------------------|--|--|--|--|--------|
| Simple Factor to all retaining walls |  |  |  |  | 200%   |

Sites Reservoir  
Roads and SLR Bridge Contingency Estimates  
Sites, CA

Cost Estimate  
AACEI Class 3  
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| Road Quantity Calculations                       |  |  |  |  |               |
|--------------------------------------------------|--|--|--|--|---------------|
| SLR Bridge Height Increases by 10'               |  |  |  |  |               |
| Description                                      |  |  |  |  | Factor        |
| Factor Piles                                     |  |  |  |  | 110%          |
| Factor Foundations                               |  |  |  |  | 115%          |
| Factor Columns                                   |  |  |  |  | 125%          |
| Factor Causeway                                  |  |  |  |  | 110%          |
| SLR Bridge Type Changes                          |  |  |  |  |               |
| Description                                      |  |  |  |  | Factor        |
| Factor Columns                                   |  |  |  |  | 125%          |
| Bridge Structure Unit Rate Factors               |  |  |  |  | 200%          |
| Animal Crossings                                 |  |  |  |  |               |
| Description                                      |  |  |  |  | \$            |
| Animal Crossing Allowance                        |  |  |  |  | \$ 5,000,000  |
| Drainage                                         |  |  |  |  |               |
| Description                                      |  |  |  |  | Factor        |
| Drainage Factor                                  |  |  |  |  | 150%          |
| 68,69,D Elevation Raise                          |  |  |  |  |               |
| Description                                      |  |  |  |  | \$            |
| Allowance Double the Estimate Value. \$11.5M x 2 |  |  |  |  | \$ 11,500,000 |

**Sites Reservoir  
Roads and SLR Bridge Contingency Estimates  
Sites, CA**

**Cost Estimate  
AACEI Class 3  
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| Construction Cost Estimate                         |                  |                           |                               |                                                                               |             |                                |                                  |
|----------------------------------------------------|------------------|---------------------------|-------------------------------|-------------------------------------------------------------------------------|-------------|--------------------------------|----------------------------------|
| Total Direct Cost                                  |                  | 30% Design<br>401,878,413 | New Road Added<br>446,897,345 | Structural Section cavation - Rock Excavation<br>418,949,303      411,435,520 |             | Retaining Walls<br>429,933,255 | Bridge Foundation<br>410,994,918 |
| TOTAL DIRECT COST BEFORE CONTRACTOR INDIRECT COSTS |                  | 401,878,413               | 446,897,345                   | 418,949,303                                                                   | 411,435,520 | 429,933,255                    | 410,994,918                      |
| Mobilization                                       | 3.0%             | 12,056,352                | 13,406,920                    | 12,568,479                                                                    | 12,343,066  | 12,897,998                     | 12,329,848                       |
| Field Overhead Costs (GC&GR)                       | 12.5%            | 51,741,846                | 57,538,033                    | 53,939,723                                                                    | 52,972,323  | 55,353,907                     | 52,915,596                       |
| Insurance                                          | 2.0%             | 9,313,532                 | 10,356,846                    | 9,709,150                                                                     | 9,535,018   | 9,963,703                      | 9,524,807                        |
| Bonds                                              | 0.6%             | 2,849,941                 | 3,169,195                     | 2,971,000                                                                     | 2,917,716   | 3,048,893                      | 2,914,591                        |
| Total Contractor Indirect Costs                    |                  | 75,961,671                | 84,470,994                    | 79,188,352                                                                    | 77,768,123  | 81,264,501                     | 77,684,842                       |
| TOTAL CONTRACTOR COSTS                             |                  | 477,840,084               | 531,368,339                   | 498,137,655                                                                   | 489,203,643 | 511,197,756                    | 488,679,760                      |
| Home Office Overhead (G&A)                         | 5.5%             | 26,281,205                | 29,225,259                    | 27,397,571                                                                    | 26,906,200  | 28,115,877                     | 26,877,387                       |
| GC Profit                                          | 8.0%             | 40,329,703                | 44,847,488                    | 42,042,818                                                                    | 41,288,787  | 43,145,091                     | 41,244,572                       |
| Total Contractor Overhead and Profit               |                  | 66,610,908                | 74,072,747                    | 69,440,389                                                                    | 68,194,987  | 71,260,968                     | 68,121,959                       |
| TOTAL CONSTRUCTION COST BEFORE CONTINGENCIES       |                  | 544,450,992               | 605,441,086                   | 567,578,044                                                                   | 557,398,630 | 582,458,724                    | 556,801,719                      |
| Contingencies                                      |                  |                           |                               |                                                                               |             |                                |                                  |
| Design Contingencies                               | 10.0%            | 54,445,099                | 60,544,109                    | 56,757,804                                                                    | 55,739,863  | 58,245,872                     | 55,680,172                       |
| Construction Contingencies                         | 15.0%            | 89,834,414                | 99,897,779                    | 93,650,377                                                                    | 91,970,774  | 96,105,689                     | 91,872,284                       |
| Total Contingency Allowance                        |                  | 144,279,513               | 160,441,888                   | 150,408,181                                                                   | 147,710,637 | 154,351,561                    | 147,552,456                      |
| TOTAL COST BEFORE ESCALATION                       |                  | 688,730,505               | 765,882,974                   | 717,986,225                                                                   | 705,109,267 | 736,810,285                    | 704,354,175                      |
| Escalation to Mid-point of Construction            | <i>By Others</i> | 0%                        | -                             | -                                                                             | -           | -                              | -                                |
| RECOMMENDED CONSTRUCTION BUDGET                    |                  | 688,730,505               | 765,882,974                   | 717,986,225                                                                   | 705,109,267 | 736,810,285                    | 704,354,175                      |
| Non-Contract Costs                                 | 15.0%            | 103,309,576               | 114,882,446                   | 107,697,934                                                                   | 105,766,390 | 110,521,543                    | 105,653,126                      |
| TOTAL ESTIMATE                                     |                  | 792,040,081               | 880,765,420                   | 825,684,159                                                                   | 810,875,658 | 847,331,827                    | 810,007,301                      |
| ESTIMATE DIFFERENCE                                |                  | -                         | 88,725,340                    | 33,644,078                                                                    | 18,835,577  | 55,291,747                     | 17,967,220                       |
| ESTIMATE DIFFERENCE - Before Contingencies         |                  | -                         | 60,990,094                    | 23,127,052                                                                    | 12,947,638  | 38,007,732                     | 12,350,727                       |

**Sites Reservoir  
Roads and SLR Bridge Contingency Estimates  
Sites, CA**

**Cost Estimate  
AACEI Class 3  
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| Construction Cost Estimate                         |           |             |               |             |                  |             |               |             |
|----------------------------------------------------|-----------|-------------|---------------|-------------|------------------|-------------|---------------|-------------|
|                                                    |           | 30% Design  | Bridge Height | Bridge Type | Animal Crossings | Drainage    | 68,69,D Raise |             |
| Total Direct Cost                                  |           | 401,878,413 | 420,238,149   | 437,288,372 | 407,128,413      | 404,504,104 | 412,247,823   |             |
| TOTAL DIRECT COST BEFORE CONTRACTOR INDIRECT COSTS |           | 401,878,413 | 420,238,149   | 437,288,372 | 407,128,413      | 404,504,104 | 412,247,823   |             |
| Mobilization                                       | 3.0%      | 12,056,352  | 12,607,144    | 13,118,651  | 12,213,852       | 12,135,123  | 12,367,435    |             |
| Field Overhead Costs (GC&GR)                       | 12.5%     | 51,741,846  | 54,105,662    | 56,300,878  | 52,417,783       | 52,079,903  | 53,076,907    |             |
| Insurance                                          | 2.0%      | 9,313,532   | 9,739,019     | 10,134,158  | 9,435,201        | 9,374,383   | 9,553,843     |             |
| Bonds                                              | 0.6%      | 2,849,941   | 2,980,140     | 3,101,052   | 2,887,171        | 2,868,561   | 2,923,476     |             |
| Total Contractor Indirect Costs                    |           | 75,961,671  | 79,431,965    | 82,654,739  | 76,954,007       | 76,457,970  | 77,921,661    |             |
| TOTAL CONTRACTOR COSTS                             |           | 477,840,084 | 499,670,114   | 519,943,111 | 484,082,420      | 480,962,074 | 490,169,484   |             |
| Home Office Overhead (G&A)                         | 5.5%      | 26,281,205  | 27,481,856    | 28,596,871  | 26,624,533       | 26,452,914  | 26,959,322    |             |
| GC Profit                                          | 8.0%      | 40,329,703  | 42,172,158    | 43,883,199  | 40,856,556       | 40,593,199  | 41,370,304    |             |
| Total Contractor Overhead and Profit               |           | 66,610,908  | 69,654,014    | 72,480,070  | 67,481,089       | 67,046,113  | 68,329,626    |             |
| TOTAL CONSTRUCTION COST BEFORE CONTINGENCIES       |           | 544,450,992 | 569,324,128   | 592,423,181 | 551,563,509      | 548,008,187 | 558,499,110   |             |
| Contingencies                                      |           |             |               |             |                  |             |               |             |
| Design Contingencies                               | 10.0%     | 54,445,099  | 56,932,413    | 59,242,318  | 55,156,351       | 54,800,819  | 55,849,911    |             |
| Construction Contingencies                         | 15.0%     | 89,834,414  | 93,938,481    | 97,749,825  | 91,007,979       | 90,421,351  | 92,152,353    |             |
| Total Contingency Allowance                        |           | 144,279,513 | 150,870,894   | 156,992,143 | 146,164,330      | 145,222,170 | 148,002,264   |             |
| TOTAL COST BEFORE ESCALATION                       |           | 688,730,505 | 720,195,022   | 749,415,324 | 697,727,839      | 693,230,357 | 706,501,374   |             |
| Escalation to Mid-point of Construction            | By Others | 0%          | -             | -           | -                | -           | -             |             |
| RECOMMENDED CONSTRUCTION BUDGET                    |           | 688,730,505 | 720,195,022   | 749,415,324 | 697,727,839      | 693,230,357 | 706,501,374   |             |
| Non-Contract Costs                                 |           | 15.0%       | 103,309,576   | 108,029,253 | 112,412,299      | 104,659,176 | 103,984,554   | 105,975,206 |
| TOTAL ESTIMATE                                     |           | 792,040,081 | 828,224,276   | 861,827,623 | 802,387,015      | 797,214,911 | 812,476,580   |             |
| ESTIMATE DIFFERENCE                                |           | -           | 36,184,195    | 69,787,542  | 10,346,934       | 5,174,830   | 20,436,499    |             |
| ESTIMATE DIFFERENCE - Before Contingencies         |           | -           | 24,873,136    | 47,972,189  | 7,112,517        | 3,557,195   | 14,048,118    |             |

Sites Reservoir  
Roads and SLR Bridge Contingency Estimates  
Sites, CA

Cost Estimate  
AAACEI Class 3  
February 27, 2025

DIRECT COST LEVEL 2 SUMMARY

|      |           |                                                                                                                                         | 30% Design |           |            | ADJ         | New Road Added |           |            | ADJ         | Structural Section |           |            | ADJ         | Excavation - Rock Excavation |           |            | ADJ         |       |
|------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------|------------|-----------|------------|-------------|----------------|-----------|------------|-------------|--------------------|-----------|------------|-------------|------------------------------|-----------|------------|-------------|-------|
| Item | Sub Item  | Description                                                                                                                             | UoM        | Qty       | Unit Rate  |             | Total          | Qty       | Unit Rate  |             | Total              | Qty       | Unit Rate  |             | Total                        | Qty       | Unit Rate  |             | Total |
| 01   | 01.00.00  | Preconstruction Activities                                                                                                              |            |           |            | 5,182,822   |                |           |            | 5,182,822   |                    |           |            | 5,182,822   |                              |           |            | 5,182,822   |       |
|      | 01.01.00  | Clearing And Grubbing                                                                                                                   | ACRE       | 483       | 8,000.00   | 3,863,200   | 100%           | 483       | 8,000.00   | 3,863,200   | 100%               | 483       | 8,000.00   | 3,863,200   | 100%                         | 483       | 8,000.00   | 3,863,200   | 100%  |
|      | 01.02.00  | Temporary Silt Fence                                                                                                                    | LF         | 659,811   | 2.00       | 1,319,622   | 100%           | 659,811   | 2.00       | 1,319,622   | 100%               | 659,811   | 2.00       | 1,319,622   | 100%                         | 659,811   | 2.00       | 1,319,622   | 100%  |
| 02   | 02.00.00  | Roadway Excavation                                                                                                                      | CY         |           |            | 124,821,099 |                |           |            | 148,679,310 |                    |           |            | 124,821,099 |                              |           |            | 133,923,106 |       |
|      | 02.01.00  | Roadway Excavation - Load, Haul, Compact - Top Loading                                                                                  | CY         | 1,407,210 | 10.29      | 14,484,038  | 117%           | 1,640,977 | 10.29      | 16,890,136  | 100%               | 1,407,210 | 10.29      | 14,484,038  | 100%                         | 1,407,210 | 10.29      | 14,484,038  | 100%  |
|      | 02.02.00  | Roadway Excavation - Load, Haul, Compact - Excess - Top Loading                                                                         | CY         | 3,458,746 | 10.28      | 35,573,066  | 130%           | 4,503,416 | 10.28      | 46,317,449  | 100%               | 3,458,746 | 10.28      | 35,573,066  | 100%                         | 3,458,746 | 10.28      | 35,573,066  | 100%  |
|      | 02.03.00  | Roadway Excavation - Load, Haul, Waste - Organics - Scraper                                                                             | CY         | 540,754   | 6.54       | 3,536,422   | 130%           | 704,082   | 6.54       | 4,604,552   | 100%               | 540,754   | 6.54       | 3,536,422   | 100%                         | 540,754   | 6.54       | 3,536,422   | 100%  |
|      | 02.04.00  | Roadway Excavation - Rock Cut - Drill and Shoot                                                                                         | CY         | 3,078,193 | 8.87       | 27,306,021  | 135%           | 4,164,859 | 8.87       | 36,945,621  | 100%               | 3,078,193 | 8.87       | 27,306,021  | 133%                         | 4,104,257 | 8.87       | 36,408,028  | 100%  |
|      | 02.05.00  | Roadway Fill from Borrow - Load, Haul, Compact                                                                                          | CY         | 4,264,250 | 9.78       | 41,721,034  | 100%           | 4,264,250 | 9.78       | 41,721,034  | 100%               | 4,264,250 | 9.78       | 41,721,034  | 100%                         | 4,264,250 | 9.78       | 41,721,034  | 100%  |
|      | 02.06.00  | Roadway Excavation (Causeway Removal of Alluvium Materials)                                                                             | CY         | 105,960   | 9.34       | 989,953     | 100%           | 105,960   | 9.34       | 989,953     | 100%               | 105,960   | 9.34       | 989,953     | 100%                         | 105,960   | 9.34       | 989,953     | 100%  |
|      | 02.07.00  | Roadway Fill (Replacement of Alluvium with 10% Swell Factor)                                                                            | CY         | 116,550   | 10.39      | 1,210,564   | 100%           | 116,550   | 10.39      | 1,210,564   | 100%               | 116,550   | 10.39      | 1,210,564   | 100%                         | 116,550   | 10.39      | 1,210,564   | 100%  |
| 03   | 03.00.00  | Causeway Protection                                                                                                                     |            |           |            | 40,281,090  |                |           |            | 40,281,090  |                    |           |            | 40,281,090  |                              |           |            | 40,281,090  |       |
|      | 03.01.00  | RSP Fabric (Type A)                                                                                                                     | SY         | 307,500   | 3.58       | 1,099,509   | 100%           | 307,500   | 3.58       | 1,099,509   | 100%               | 307,500   | 3.58       | 1,099,509   | 100%                         | 307,500   | 3.58       | 1,099,509   | 100%  |
|      | 03.02.00  | RSP Bedding No. 1 (Method B) - Zone 7A                                                                                                  | CY         | 199,180   | 61.46      | 12,242,195  | 100%           | 199,180   | 61.46      | 12,242,195  | 100%               | 199,180   | 61.46      | 12,242,195  | 100%                         | 199,180   | 61.46      | 12,242,195  | 100%  |
|      | 03.03.00  | Rock Slope Protection (1/4 T, Method B) - Zone 7B                                                                                       | CY         | 398,350   | 67.63      | 26,939,385  | 100%           | 398,350   | 67.63      | 26,939,385  | 100%               | 398,350   | 67.63      | 26,939,385  | 100%                         | 398,350   | 67.63      | 26,939,385  | 100%  |
| 04   | 04.00.00  | Pavement Structural Section                                                                                                             |            |           |            | 65,031,962  |                |           |            | 67,019,704  |                    |           |            | 81,289,953  |                              |           |            | 65,031,962  |       |
|      | 04.01.00  | Hot Mix Asphalt (Type A)                                                                                                                | TON        | 78,265    | 103.45     | 8,096,871   | 103%           | 80,818    | 103.45     | 8,360,983   | 125%               | 97,831    | 103.45     | 10,121,088  | 100%                         | 78,265    | 103.45     | 8,096,871   | 100%  |
|      | 04.02.00  | Jointed Plain Concrete Pavement (A.K.A. PCC Pavement)                                                                                   | CY         | 3,640     | 394.18     | 1,434,830   | 100%           | 3,640     | 394.18     | 1,434,830   | 125%               | 4,550     | 394.18     | 1,793,537   | 100%                         | 3,640     | 394.18     | 1,434,830   | 100%  |
|      | 04.03.00  | Seal Pavement Joint                                                                                                                     | LF         | 9,960     | 2.00       | 19,920      | 100%           | 9,960     | 2.00       | 19,920      | 125%               | 12,450    | 2.00       | 24,900      | 100%                         | 9,960     | 2.00       | 19,920      | 100%  |
|      | 04.04.00  | Seal Longitudinal Isolation Joint                                                                                                       | LF         | 4,330     | 2.00       | 8,660       | 100%           | 4,330     | 2.00       | 8,660       | 125%               | 5,413     | 2.00       | 10,825      | 100%                         | 4,330     | 2.00       | 8,660       | 100%  |
|      | 04.05.00  | Class 2 Aggregate Base                                                                                                                  | CY         | 472,894   | 85.85      | 40,598,446  | 103%           | 486,509   | 85.85      | 41,767,364  | 125%               | 591,117   | 85.85      | 50,748,058  | 100%                         | 472,894   | 85.85      | 40,598,446  | 100%  |
|      | 04.06.00  | Shoulder Backing (Class 2 AB Material Daylight To Side Slope)                                                                           | TON        | 251,340   | 50.00      | 12,567,000  | 104%           | 262,434   | 50.00      | 13,121,711  | 125%               | 314,175   | 50.00      | 15,708,750  | 100%                         | 251,340   | 50.00      | 12,567,000  | 100%  |
|      | 04.07.00  | Cold Plane Asphalt Concrete Pavement                                                                                                    | SY         | 183,870   | 3.00       | 551,610     | 100%           | 183,870   | 3.00       | 551,610     | 125%               | 229,838   | 3.00       | 689,513     | 100%                         | 183,870   | 3.00       | 551,610     | 100%  |
|      | 04.08.00  | Tack Coat                                                                                                                               | TON        | 58        | 2,085.81   | 121,224     | 100%           | 58        | 2,085.81   | 121,224     | 125%               | 73        | 2,085.81   | 151,530     | 100%                         | 58        | 2,085.81   | 121,224     | 100%  |
|      | 04.09.00  | Full Depth Reclamation-Cement                                                                                                           | SY         | 104,570   | 15.53      | 1,624,372   | 100%           | 104,570   | 15.53      | 1,624,372   | 125%               | 130,713   | 15.53      | 2,030,465   | 100%                         | 104,570   | 15.53      | 1,624,372   | 100%  |
|      | 04.15.00  | Remove Base And Surfacing                                                                                                               | CY         | 602       | 15.00      | 9,030       | 100%           | 602       | 15.00      | 9,030       | 125%               | 753       | 15.00      | 11,288      | 100%                         | 602       | 15.00      | 9,030       | 100%  |
|      | 04.16.00  | Obsterate Surfacing                                                                                                                     | SY         | -         | -          | -           | 100%           | -         | -          | -           | 125%               | -         | -          | -           | 100%                         | -         | -          | -           | 100%  |
| 05   | 05.00.00  | Drainage                                                                                                                                |            |           |            | 5,001,316   |                |           |            | 5,501,448   |                    |           |            | 5,001,316   |                              |           |            | 5,001,316   |       |
|      | 05.01.00  | Remove Culvert                                                                                                                          | EA         | 91        | 1,950.00   | 177,450     | 110%           | 100       | 1,950.00   | 195,195     | 100%               | 91        | 1,950.00   | 177,450     | 100%                         | 91        | 1,950.00   | 177,450     | 100%  |
|      | 05.02.00  | Abandon Culvert                                                                                                                         | EA         | 7         | 1,500.00   | 10,500      | 110%           | 8         | 1,500.00   | 11,550      | 100%               | 7         | 1,500.00   | 10,500      | 100%                         | 7         | 1,500.00   | 10,500      | 100%  |
|      | 05.03.00  | 24" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                                                                               | LF         | 12,608    | 269.60     | 3,399,040   | 110%           | 13,868    | 269.60     | 3,738,944   | 100%               | 12,608    | 269.60     | 3,399,040   | 100%                         | 12,608    | 269.60     | 3,399,040   | 100%  |
|      | 05.04.00  | 54" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                                                                               | LF         | 350       | 770.40     | 269,640     | 110%           | 385       | 770.40     | 296,604     | 100%               | 350       | 770.40     | 269,640     | 100%                         | 350       | 770.40     | 269,640     | 100%  |
|      | 05.05.00  | Structural Concrete, Box Culvert (Single Cell)                                                                                          | CY         | 460       | 2,000.00   | 920,000     | 110%           | 506       | 2,000.00   | 1,012,000   | 100%               | 460       | 2,000.00   | 920,000     | 100%                         | 460       | 2,000.00   | 920,000     | 100%  |
|      | 05.06.00  | Bar Reinforcing Steel (Box Culvert)                                                                                                     | LB         | 125,080   | 1.39       | 174,111     | 110%           | 137,588   | 1.39       | 191,522     | 100%               | 125,080   | 1.39       | 174,111     | 100%                         | 125,080   | 1.39       | 174,111     | 100%  |
|      | 05.07.00  | Rock Pad Energy Dissipator (18" D X 5' W X 6' L)                                                                                        | CY         | 289       | 175.00     | 50,575      | 110%           | 318       | 175.00     | 55,633      | 100%               | 289       | 175.00     | 50,575      | 100%                         | 289       | 175.00     | 50,575      | 100%  |
| 06   | 06.00.00  | Specialty Items                                                                                                                         |            |           |            | 1,695,900   |                |           |            | 1,661,500   |                    |           |            | 1,695,900   |                              |           |            | 1,695,900   |       |
|      | 06.01.00  | Treated Wood Waste                                                                                                                      | LB         | 30,100    | 0.50       | 15,050      | 100%           | 30,100    | 0.50       | 15,050      | 100%               | 30,100    | 0.50       | 15,050      | 100%                         | 30,100    | 0.50       | 15,050      | 100%  |
|      | 06.01.00A | Allowance for Animal Crossings                                                                                                          | LS         |           |            |             | 100%           |           |            |             | 100%               |           |            |             | 100%                         |           |            |             | 100%  |
|      | 06.02.00  | Remove Metal Beam Guard Railing                                                                                                         | LF         | 4,970     | 5.00       | 24,850      | 100%           | 4,970     | 5.00       | 24,850      | 100%               | 4,970     | 5.00       | 24,850      | 100%                         | 4,970     | 5.00       | 24,850      | 100%  |
|      | 06.03.00  | Midwest Guardrail System (Wood Post) (Includes Transition Railing, Alternative Flared/In-Line Terminal System, And End Anchor Assembly) | LF         | 57,500    | 28.80      | 1,656,000   | 110%           | 63,250    | 28.80      | 1,821,600   | 100%               | 57,500    | 28.80      | 1,656,000   | 100%                         | 57,500    | 28.80      | 1,656,000   | 100%  |
| 07   | 07.00.00  | Retaining Walls                                                                                                                         |            |           |            | 26,718,897  |                |           |            | 42,613,758  |                    |           |            | 26,718,897  |                              |           |            | 26,718,897  |       |
|      | 07.05.00  | Retaining Wall - MSE Wall                                                                                                               | SF         | 35,247    | 134.62     | 4,744,739   | 100%           | 35,247    | 134.62     | 4,744,739   | 100%               | 35,247    | 134.62     | 4,744,739   | 100%                         | 35,247    | 134.62     | 4,744,739   | 100%  |
|      | 07.06.00  | Retaining Wall - Tie-Back Wall                                                                                                          | SF         | 190,443   | 115.38     | 21,974,157  | 172%           | 328,198   | 115.38     | 37,869,018  | 100%               | 190,443   | 115.38     | 21,974,157  | 100%                         | 190,443   | 115.38     | 21,974,157  | 100%  |
| 08   | 08.00.00  | Traffic Items                                                                                                                           |            |           |            | 4,311,832   |                |           |            | 4,743,015   |                    |           |            | 4,311,832   |                              |           |            | 4,311,832   |       |
|      | 08.01.00  | Roadside Sign - One Post                                                                                                                | LF         | 122       | 3,500.00   | 428,117     | 110%           | 135       | 3,500.00   | 470,929     | 100%               | 122       | 3,500.00   | 428,117     | 100%                         | 122       | 3,500.00   | 428,117     | 100%  |
|      | 08.02.00  | Two-Component Paint Traffic Stripe (6" Yellow), (Includes 2 Yellow Stripes And One Black)                                               | EA         | 88,600    | 1.97       | 174,365     | 110%           | 97,460    | 1.97       | 191,801     | 100%               | 88,600    | 1.97       | 174,365     | 100%                         | 88,600    | 1.97       | 174,365     | 100%  |
|      | 08.03.00  | Two-Component Paint Traffic Stripe (6" White)                                                                                           | EA         | 168,020   | 0.66       | 110,221     | 110%           | 184,822   | 0.66       | 121,243     | 100%               | 168,020   | 0.66       | 110,221     | 100%                         | 168,020   | 0.66       | 110,221     | 100%  |
|      | 08.04.00  | Two-Component Paint Pavement Marking                                                                                                    | SQFT       | 1,581     | 14.15      | 22,371      | 110%           | 1,739     | 14.15      | 24,608      | 100%               | 1,581     | 14.15      | 22,371      | 100%                         | 1,581     | 14.15      | 22,371      | 100%  |
|      | 08.05.00  | Construction Area Signs                                                                                                                 | LS         | 6         | 325,159.81 | 1,950,959   | 110%           | 7         | 325,159.81 | 2,146,055   | 100%               | 6         | 325,159.81 | 1,950,959   | 100%                         | 6         | 325,159.81 | 1,950,959   | 100%  |
|      | 08.06.00  | Portable Changeable Message Sign                                                                                                        | LS         | 5         | 162,579.91 | 812,900     | 110%           | 6         | 162,579.91 | 894,189     | 100%               | 5         | 162,579.91 | 812,900     | 100%                         | 5         | 162,579.91 | 812,900     | 100%  |
|      | 08.07.00  | Traffic Control System                                                                                                                  | LS         | 5         | 162,579.91 | 812,900     | 110%           | 6         | 162,579.91 | 894,189     | 100%               | 5         | 162,579.91 | 812,900     | 100%                         | 5         | 162,579.91 | 812,900     | 100%  |
| 09   | 09.00.00  | Detours - Install and Remove                                                                                                            |            |           |            | 374,456     |                |           |            | 411,902     |                    |           |            | 374,456     |                              |           |            |             |       |

DIRECT COST LEVEL 2 SUMMARY

|                                          |          |                                                         |       | 30% Design |           |             | New Road Added |            |             | Structural Section |            |             | Excavation - Rock Excavation |            |             |
|------------------------------------------|----------|---------------------------------------------------------|-------|------------|-----------|-------------|----------------|------------|-------------|--------------------|------------|-------------|------------------------------|------------|-------------|
| Item                                     | Sub Item | Description                                             | UoM   | Qty        | Unit Rate | Total       | Qty            | Unit Rate  | Total       | Qty                | Unit Rate  | Total       | Qty                          | Unit Rate  | Total       |
| 01                                       | 01.00.00 | PRECONSTRUCTION ACTIVITIES                              |       |            |           | 2,141,040   |                |            | 2,141,040   |                    |            | 2,141,040   |                              |            | 2,141,040   |
|                                          | 01.01.00 | Demolition Work                                         | LS    | -          | -         | -           | -              | -          | -           | -                  | -          | -           | -                            | -          | -           |
|                                          | 01.02.00 | Clearing and Grubbing                                   | ACRE  | 40         | 4,741     | 189,640     | 40             | 4,741.00   | 189,640     | 40                 | 4,741.00   | 189,640     | 40                           | 4,741.00   | 189,640     |
|                                          | 01.03.00 | Reservoir Clearing                                      | ACRE  | -          | -         | -           | -              | -          | -           | -                  | -          | -           | -                            | -          | -           |
|                                          | 01.04.00 | Erosion and Sediment Control                            | ACRE  | 40         | 46,000    | 1,840,000   | 40             | 46,000.00  | 1,840,000   | 40                 | 46,000.00  | 1,840,000   | 40                           | 46,000.00  | 1,840,000   |
|                                          | 01.05.00 | Developing haul routes - Haul routes inside reservoir   | ACRES | 10         | 11,140    | 111,400     | 10             | 11,140.00  | 111,400     | 10                 | 11,140.00  | 111,400     | 10                           | 11,140.00  | 111,400     |
|                                          | 01.06.00 | Developing haul routes - Haul routes outside reservoir  | ACRES | -          | -         | -           | -              | -          | -           | -                  | -          | -           | -                            | -          | -           |
| 02                                       | 02.00.00 | FOUNDATION EXCAVATION                                   |       |            |           | 1,426,782   |                |            | 1,426,782   |                    |            | 1,426,782   |                              |            | 1,426,782   |
|                                          | 02.01.00 | Structure Excavation (Bridge)                           | CY    | 20,137     | 46        | 926,302     | 20,137         | 46.00      | 926,302     | 20,137             | 46.00      | 926,302     | 20,137                       | 46.00      | 926,302     |
|                                          | 02.02.00 | Structure Backfill (Bridge)                             | CY    | 8,704      | 58        | 500,480     | 8,704          | 57.50      | 500,480     | 8,704              | 57.50      | 500,480     | 8,704                        | 57.50      | 500,480     |
| 03                                       | 03.00.00 | PILING                                                  |       |            |           | 21,513,743  |                |            | 21,513,743  |                    |            | 21,513,743  |                              |            | 21,513,743  |
|                                          | 03.01.00 | 24" CIDH Piles                                          | BCY   | 74,064     | 264       | 19,550,702  | 74,064         | 263.97     | 19,550,702  | 74,064             | 263.97     | 19,550,702  | 74,064                       | 263.97     | 19,550,702  |
|                                          | 03.02.00 | Driven Piles - Class 200 - 16"                          | LF    | 4,950      | 178       | 882,681     | 4,950          | 178.32     | 882,681     | 4,950              | 178.32     | 882,681     | 4,950                        | 178.32     | 882,681     |
|                                          | 03.03.00 | Driven Piles - Class 90 - 16"                           | CY    | 8,280      | 130       | 1,080,360   | 8,280          | 130.48     | 1,080,360   | 8,280              | 130.48     | 1,080,360   | 8,280                        | 130.48     | 1,080,360   |
| 04                                       | 04.00.00 | BRIDGE FOUNDATIONS                                      |       |            |           | 11,789,017  |                |            | 11,789,017  |                    |            | 11,789,017  |                              |            | 11,789,017  |
|                                          | 04.01.00 | Bridge Footings                                         | BCY   | 11,112     | 1,061     | 11,789,017  | 11,112         | 1,060.89   | 11,789,017  | 11,112             | 1,060.89   | 11,789,017  | 11,112                       | 1,060.89   | 11,789,017  |
| 05                                       | 05.00.00 | BRIDGE STRUCTURE                                        |       |            |           | 56,692,325  |                |            | 56,692,325  |                    |            | 56,692,325  |                              |            | 56,692,325  |
|                                          | 05.01.00 | Bridge Columns                                          | CY    | 16,343     | 1,874     | 30,624,739  | 16,343         | 1,873.88   | 30,624,739  | 16,343             | 1,873.88   | 30,624,739  | 16,343                       | 1,873.88   | 30,624,739  |
|                                          | 05.02.00 | Bridge Girders - Precast - Directly Placed              | EA    | 40         | 64,977    | 2,599,072   | 40             | 64,976.80  | 2,599,072   | 40                 | 64,976.80  | 2,599,072   | 40                           | 64,976.80  | 2,599,072   |
|                                          | 05.03.00 | Bridge Girders - Precasted - Spliced on Site and Placed | EA    | 68         | 170,698   | 11,607,452  | 68             | 170,697.83 | 11,607,452  | 68                 | 170,697.83 | 11,607,452  | 68                           | 170,697.83 | 11,607,452  |
|                                          | 05.04.00 | Bridge Deck - Polymer Fiber Concrete                    | CY    | 6,317      | 1,764     | 11,144,212  | 6,317          | 1,764.14   | 11,144,212  | 6,317              | 1,764.14   | 11,144,212  | 6,317                        | 1,764.14   | 11,144,212  |
|                                          | 05.05.00 | Joint Seals                                             | LF    | 426        | 1,685     | 716,850     | 426            | 1,684.72   | 716,850     | 426                | 1,684.72   | 716,850     | 426                          | 1,684.72   | 716,850     |
| 06                                       | 06.00.00 | APPROACH WORK                                           |       |            |           | 767,773     |                |            | 767,773     |                    |            | 767,773     |                              |            | 767,773     |
|                                          | 06.01.00 | Retaining Wall                                          | CY    | 217        | 2,293     | 498,589     | 217            | 2,292.85   | 498,589     | 217                | 2,292.85   | 498,589     | 217                          | 2,292.85   | 498,589     |
|                                          | 06.02.00 | Approach Slab                                           | CY    | 197        | 1,365     | 269,184     | 197            | 1,364.88   | 269,184     | 197                | 1,364.88   | 269,184     | 197                          | 1,364.88   | 269,184     |
| 07                                       | 07.00.00 | GENERAL BRIDGE WORK                                     |       |            |           | 1,728,360   |                |            | 1,728,360   |                    |            | 1,728,360   |                              |            | 1,728,360   |
|                                          | 07.01.00 | Concrete Barrier                                        | LF    | 9,602      | 124       | 1,190,648   | 9,602          | 124.00     | 1,190,648   | 9,602              | 124.00     | 1,190,648   | 9,602                        | 124.00     | 1,190,648   |
|                                          | 07.02.00 | Chain Link Railing                                      | LF    | 9,602      | 56        | 537,712     | 9,602          | 56.00      | 537,712     | 9,602              | 56.00      | 537,712     | 9,602                        | 56.00      | 537,712     |
| 08                                       | 08.00.00 | ALLOWANCE FOR UNLISTED ITEMS                            |       |            |           | 4,802,952   |                |            | 4,802,952   |                    |            | 4,802,952   |                              |            | 4,802,952   |
|                                          | 08.01.00 | Allowance for Unlisted Items                            | %     |            | 5%        | 4,802,952   | 5%             |            | 4,802,952   | 5%                 |            | 4,802,952   | 5%                           |            | 4,802,952   |
| Total Direct Cost - SLR Bridge           |          |                                                         |       |            |           | 100,861,991 |                |            | 100,861,991 |                    |            | 100,861,991 |                              |            | 100,861,991 |
| Total Direct Cost - Roads and SLR Bridge |          |                                                         |       |            |           | 401,878,413 |                |            | 446,897,345 |                    |            | 418,949,303 |                              |            | 411,435,520 |

DIRECT COST LEVEL 2 SUMMARY

|      |           |                                                                                                                                         |      | 30% Design |            |             | ADJ  | Retaining Walls |             |            | ADJ  | Bridge Foundation |            |            | ADJ         | Bridge Height |            |             |
|------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------|------|------------|------------|-------------|------|-----------------|-------------|------------|------|-------------------|------------|------------|-------------|---------------|------------|-------------|
| Item | Sub Item  | Description                                                                                                                             | UoM  | Qty        | Unit Rate  | Total       |      | Qty             | Unit Rate   | Total      |      | Qty               | Unit Rate  | Total      |             | Qty           | Unit Rate  | Total       |
| 01   | 01.00.00  | Preconstruction Activities                                                                                                              |      |            |            | 5,182,822   |      |                 | 5,182,822   |            |      | 5,182,822         |            |            | 5,182,822   |               |            | 5,182,822   |
|      | 01.01.00  | Clearing And Grubbing                                                                                                                   | ACRE | 483        | 8,000.00   | 3,863,200   | 100% | 483             | 8,000.00    | 3,863,200  | 100% | 483               | 8,000.00   | 3,863,200  | 100%        | 483           | 8,000.00   | 3,863,200   |
|      | 01.02.00  | Temporary Silt Fence                                                                                                                    | LF   | 659,811    | 2.00       | 1,319,622   | 100% | 659,811         | 2.00        | 1,319,622  | 100% | 659,811           | 2.00       | 1,319,622  | 100%        | 659,811       | 2.00       | 1,319,622   |
| 02   | 02.00.00  | Roadway Excavation                                                                                                                      | CY   |            |            | 124,821,099 |      |                 | 124,821,099 |            |      | 124,821,099       |            |            | 124,821,099 |               |            | 129,213,254 |
|      | 02.01.00  | Roadway Excavation - Load, Haul, Compact - Top Loading                                                                                  | CY   | 1,407,210  | 10.29      | 14,484,038  | 100% | 1,407,210       | 10.29       | 14,484,038 | 100% | 1,407,210         | 10.29      | 14,484,038 | 100%        | 1,407,210     | 10.29      | 14,484,038  |
|      | 02.02.00  | Roadway Excavation - Load, Haul, Compact - Excess - Top Loading                                                                         | CY   | 3,458,746  | 10.28      | 35,573,066  | 100% | 3,458,746       | 10.28       | 35,573,066 | 100% | 3,458,746         | 10.28      | 35,573,066 | 100%        | 3,458,746     | 10.28      | 35,573,066  |
|      | 02.03.00  | Roadway Excavation - Load, Haul, Waste - Organics - Scraper                                                                             | CY   | 540,754    | 6.54       | 3,536,422   | 100% | 540,754         | 6.54        | 3,536,422  | 100% | 540,754           | 6.54       | 3,536,422  | 100%        | 540,754       | 6.54       | 3,536,422   |
|      | 02.04.00  | Roadway Excavation - Rock Cut - Drill and Shoot                                                                                         | CY   | 3,078,193  | 8.87       | 27,306,021  | 100% | 3,078,193       | 8.87        | 27,306,021 | 100% | 3,078,193         | 8.87       | 27,306,021 | 100%        | 3,078,193     | 8.87       | 27,306,021  |
|      | 02.05.00  | Roadway Fill from Borrow - Load, Haul, Compact                                                                                          | CY   | 4,264,250  | 9.78       | 41,721,034  | 100% | 4,264,250       | 9.78        | 41,721,034 | 100% | 4,264,250         | 9.78       | 41,721,034 | 110%        | 4,690,675     | 9.78       | 45,893,138  |
|      | 02.06.00  | Roadway Excavation (Causeway Removal of Alluvium Materials)                                                                             | CY   | 105,960    | 9.34       | 989,953     | 100% | 105,960         | 9.34        | 989,953    | 100% | 105,960           | 9.34       | 989,953    | 110%        | 116,556       | 9.34       | 1,088,948   |
|      | 02.07.00  | Roadway Fill (Replacement of Alluvium with 10% Swell Factor)                                                                            | CY   | 116,550    | 10.39      | 1,210,564   | 100% | 116,550         | 10.39       | 1,210,564  | 100% | 116,550           | 10.39      | 1,210,564  | 110%        | 128,205       | 10.39      | 1,331,621   |
| 03   | 03.00.00  | Causeway Protection                                                                                                                     |      |            |            | 40,281,090  |      |                 | 40,281,090  |            |      | 40,281,090        |            |            | 40,281,090  |               |            | 40,281,090  |
|      | 03.01.00  | RSP Fabric (Type A)                                                                                                                     | SY   | 307,500    | 3.58       | 1,099,509   | 100% | 307,500         | 3.58        | 1,099,509  | 100% | 307,500           | 3.58       | 1,099,509  | 100%        | 307,500       | 3.58       | 1,099,509   |
|      | 03.02.00  | RSP Bedding No. 1 (Method B) - Zone 7A                                                                                                  | CY   | 199,180    | 61.46      | 12,242,195  | 100% | 199,180         | 61.46       | 12,242,195 | 100% | 199,180           | 61.46      | 12,242,195 | 100%        | 199,180       | 61.46      | 12,242,195  |
|      | 03.03.00  | Rock Slope Protection (1/4 T, Method B) - Zone 7B                                                                                       | CY   | 398,350    | 67.63      | 26,939,385  | 100% | 398,350         | 67.63       | 26,939,385 | 100% | 398,350           | 67.63      | 26,939,385 | 100%        | 398,350       | 67.63      | 26,939,385  |
| 04   | 04.00.00  | Pavement Structural Section                                                                                                             |      |            |            | 65,031,962  |      |                 | 65,031,962  |            |      | 65,031,962        |            |            | 65,031,962  |               |            | 65,031,962  |
|      | 04.01.00  | Hot Mix Asphalt (Type A)                                                                                                                | TON  | 78,265     | 103.45     | 8,096,871   | 100% | 78,265          | 103.45      | 8,096,871  | 100% | 78,265            | 103.45     | 8,096,871  | 100%        | 78,265        | 103.45     | 8,096,871   |
|      | 04.02.00  | Jointed Plain Concrete Pavement (A.K.A. PCC Pavement)                                                                                   | CY   | 3,640      | 394.18     | 1,434,830   | 100% | 3,640           | 394.18      | 1,434,830  | 100% | 3,640             | 394.18     | 1,434,830  | 100%        | 3,640         | 394.18     | 1,434,830   |
|      | 04.03.00  | Seal Pavement Joint                                                                                                                     | LF   | 9,960      | 2.00       | 19,920      | 100% | 9,960           | 2.00        | 19,920     | 100% | 9,960             | 2.00       | 19,920     | 100%        | 9,960         | 2.00       | 19,920      |
|      | 04.04.00  | Seal Longitudinal Isolation Joint                                                                                                       | LF   | 4,330      | 2.00       | 8,660       | 100% | 4,330           | 2.00        | 8,660      | 100% | 4,330             | 2.00       | 8,660      | 100%        | 4,330         | 2.00       | 8,660       |
|      | 04.05.00  | Class 2 Aggregate Base                                                                                                                  | CY   | 472,894    | 85.85      | 40,598,446  | 100% | 472,894         | 85.85       | 40,598,446 | 100% | 472,894           | 85.85      | 40,598,446 | 100%        | 472,894       | 85.85      | 40,598,446  |
|      | 04.06.00  | Shoulder Backing (Class 2 AB Material Daylight To Side Slope)                                                                           | TON  | 251,340    | 50.00      | 12,567,000  | 100% | 251,340         | 50.00       | 12,567,000 | 100% | 251,340           | 50.00      | 12,567,000 | 100%        | 251,340       | 50.00      | 12,567,000  |
|      | 04.07.00  | Cold Plane Asphalt Concrete Pavement                                                                                                    | SY   | 183,870    | 3.00       | 551,610     | 100% | 183,870         | 3.00        | 551,610    | 100% | 183,870           | 3.00       | 551,610    | 100%        | 183,870       | 3.00       | 551,610     |
|      | 04.08.00  | Tack Coat                                                                                                                               | TON  | 58         | 2,085.81   | 121,224     | 100% | 58              | 2,085.81    | 121,224    | 100% | 58                | 2,085.81   | 121,224    | 100%        | 58            | 2,085.81   | 121,224     |
|      | 04.09.00  | Full Depth Reclamation-Cement                                                                                                           | SY   | 104,570    | 15.53      | 1,624,372   | 100% | 104,570         | 15.53       | 1,624,372  | 100% | 104,570           | 15.53      | 1,624,372  | 100%        | 104,570       | 15.53      | 1,624,372   |
|      | 04.15.00  | Remove Base And Surfacing                                                                                                               | CY   | 602        | 15.00      | 9,030       | 100% | 602             | 15.00       | 9,030      | 100% | 602               | 15.00      | 9,030      | 100%        | 602           | 15.00      | 9,030       |
|      | 04.16.00  | Obsterate Surfacing                                                                                                                     | SY   | -          | -          | -           | 100% | -               | -           | -          | 100% | -                 | -          | -          | 100%        | -             | -          | -           |
| 05   | 05.00.00  | Drainage                                                                                                                                |      |            |            | 5,001,316   |      |                 | 5,001,316   |            |      | 5,001,316         |            |            | 5,001,316   |               |            | 5,001,316   |
|      | 05.01.00  | Remove Culvert                                                                                                                          | EA   | 91         | 1,950.00   | 177,450     | 100% | 91              | 1,950.00    | 177,450    | 100% | 91                | 1,950.00   | 177,450    | 100%        | 91            | 1,950.00   | 177,450     |
|      | 05.02.00  | Abandon Culvert                                                                                                                         | EA   | 7          | 1,500.00   | 10,500      | 100% | 7               | 1,500.00    | 10,500     | 100% | 7                 | 1,500.00   | 10,500     | 100%        | 7             | 1,500.00   | 10,500      |
|      | 05.03.00  | 24" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                                                                               | LF   | 12,608     | 269.60     | 3,399,040   | 100% | 12,608          | 269.60      | 3,399,040  | 100% | 12,608            | 269.60     | 3,399,040  | 100%        | 12,608        | 269.60     | 3,399,040   |
|      | 05.04.00  | 54" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                                                                               | LF   | 350        | 770.40     | 269,640     | 100% | 350             | 770.40      | 269,640    | 100% | 350               | 770.40     | 269,640    | 100%        | 350           | 770.40     | 269,640     |
|      | 05.05.00  | Structural Concrete, Box Culvert (Single Cell)                                                                                          | CY   | 460        | 2,000.00   | 920,000     | 100% | 460             | 2,000.00    | 920,000    | 100% | 460               | 2,000.00   | 920,000    | 100%        | 460           | 2,000.00   | 920,000     |
|      | 05.06.00  | Bar Reinforcing Steel (Box Culvert)                                                                                                     | LB   | 125,080    | 1.39       | 174,111     | 100% | 125,080         | 1.39        | 174,111    | 100% | 125,080           | 1.39       | 174,111    | 100%        | 125,080       | 1.39       | 174,111     |
|      | 05.07.00  | Rock Pad Energy Dissipator (18" D X 5' W X 6' L)                                                                                        | CY   | 289        | 175.00     | 50,575      | 100% | 289             | 175.00      | 50,575     | 100% | 289               | 175.00     | 50,575     | 100%        | 289           | 175.00     | 50,575      |
| 06   | 06.00.00  | Specialty Items                                                                                                                         |      |            |            | 1,695,900   |      |                 | 1,695,900   |            |      | 1,695,900         |            |            | 1,695,900   |               |            | 1,695,900   |
|      | 06.01.00  | Treated Wood Waste                                                                                                                      | LB   | 30,100     | 0.50       | 15,050      | 100% | 30,100          | 0.50        | 15,050     | 100% | 30,100            | 0.50       | 15,050     | 100%        | 30,100        | 0.50       | 15,050      |
|      | 06.01.00A | Allowance for Animal Crossings                                                                                                          | LS   |            |            |             | 100% |                 |             |            | 100% |                   |            |            | 100%        |               |            |             |
|      | 06.02.00  | Remove Metal Beam Guard Railing                                                                                                         | LF   | 4,970      | 5.00       | 24,850      | 100% | 4,970           | 5.00        | 24,850     | 100% | 4,970             | 5.00       | 24,850     | 100%        | 4,970         | 5.00       | 24,850      |
|      | 06.03.00  | Midwest Guardrail System (Wood Post) (Includes Transition Railing, Alternative Flared/In-Line Terminal System, And End Anchor Assembly) | LF   | 57,500     | 28.80      | 1,656,000   | 100% | 57,500          | 28.80       | 1,656,000  | 100% | 57,500            | 28.80      | 1,656,000  | 100%        | 57,500        | 28.80      | 1,656,000   |
| 07   | 07.00.00  | Retaining Walls                                                                                                                         |      |            |            | 26,718,897  |      |                 | 53,437,794  |            |      | 26,718,897        |            |            | 26,718,897  |               |            | 26,718,897  |
|      | 07.05.00  | Retaining Wall - MSE Wall                                                                                                               | SF   | 35,247     | 134.62     | 4,744,739   | 200% | 70,493          | 134.62      | 9,489,479  | 100% | 35,247            | 134.62     | 4,744,739  | 100%        | 35,247        | 134.62     | 4,744,739   |
|      | 07.06.00  | Retaining Wall - Tie-Back Wall                                                                                                          | SF   | 190,443    | 115.38     | 21,974,157  | 200% | 380,885         | 115.38      | 43,948,315 | 100% | 190,443           | 115.38     | 21,974,157 | 100%        | 190,443       | 115.38     | 21,974,157  |
| 08   | 08.00.00  | Traffic Items                                                                                                                           |      |            |            | 4,311,832   |      |                 | 4,311,832   |            |      | 4,311,832         |            |            | 4,311,832   |               |            | 4,311,832   |
|      | 08.01.00  | Roadside Sign - One Post                                                                                                                | LF   | 122        | 3,500.00   | 428,117     | 100% | 122             | 3,500.00    | 428,117    | 100% | 122               | 3,500.00   | 428,117    | 100%        | 122           | 3,500.00   | 428,117     |
|      | 08.02.00  | Two-Component Paint Traffic Stripe (6" Yellow), (Includes 2 Yellow Stripes And One Black)                                               | EA   | 88,600     | 1.97       | 174,365     | 100% | 88,600          | 1.97        | 174,365    | 100% | 88,600            | 1.97       | 174,365    | 100%        | 88,600        | 1.97       | 174,365     |
|      | 08.03.00  | Two-Component Paint Traffic Stripe (6" White)                                                                                           | EA   | 168,020    | 0.66       | 110,221     | 100% | 168,020         | 0.66        | 110,221    | 100% | 168,020           | 0.66       | 110,221    | 100%        | 168,020       | 0.66       | 110,221     |
|      | 08.04.00  | Two-Component Paint Pavement Marking                                                                                                    | SQFT | 1,581      | 14.15      | 22,371      | 100% | 1,581           | 14.15       | 22,371     | 100% | 1,581             | 14.15      | 22,371     | 100%        | 1,581         | 14.15      | 22,371      |
|      | 08.05.00  | Construction Area Signs                                                                                                                 | LS   | 6          | 325,159.81 | 1,950,959   | 100% | 6               | 325,159.81  | 1,950,959  | 100% | 6                 | 325,159.81 | 1,950,959  | 100%        | 6             | 325,159.81 | 1,950,959   |
|      | 08.06.00  | Portable Changeable Message Sign                                                                                                        | LS   | 5          | 162,579.91 | 812,900     | 100% | 5               | 162,579.91  | 812,900    | 100% | 5                 | 162,579.91 | 812,900    | 100%        | 5             | 162,579.91 | 812,900     |
|      | 08.07.00  | Traffic Control System                                                                                                                  | LS   | 5          | 162,579.91 | 812,900     | 100% | 5               | 162,579.91  | 812,900    | 100% | 5                 | 162,579.91 | 812,900    | 100%        | 5             | 162,579.91 | 812,900     |
| 09   | 09.00.00  | Detours - Install and Remove                                                                                                            |      |            |            | 374,456     |      |                 | 374,456     |            |      | 374,456           |            |            | 374,456     |               |            | 374,456     |
|      | 09.01.00  | Temporary Hot Mix Asphalt (Type A)                                                                                                      | CY   | 860        | 129.60     | 111,456     | 100% | 860             | 129.60      | 111,456    | 100% | 860               | 129.60     | 111,456    | 100%        | 860           | 129.60     | 111,456     |
|      | 09.02.00  | Temporary Class 2 Aggregate Base                                                                                                        | CY   | 2,630      | 100.00     | 263,000     | 100% | 2,630           | 100.00      | 263,000    | 100% |                   |            |            |             |               |            |             |

DIRECT COST LEVEL 2 SUMMARY

|                                          |          |                                                         |       | 30% Design |           |             |
|------------------------------------------|----------|---------------------------------------------------------|-------|------------|-----------|-------------|
| Item                                     | Sub Item | Description                                             | UoM   | Qty        | Unit Rate | Total       |
| 01                                       | 01.00.00 | PRECONSTRUCTION ACTIVITIES                              |       |            |           | 2,141,040   |
|                                          | 01.01.00 | Demolition Work                                         | LS    | -          | -         | -           |
|                                          | 01.02.00 | Clearing and Grubbing                                   | ACRE  | 40         | 4,741     | 189,640     |
|                                          | 01.03.00 | Reservoir Clearing                                      | ACRE  | -          | -         | -           |
|                                          | 01.04.00 | Erosion and Sediment Control                            | ACRE  | 40         | 46,000    | 1,840,000   |
|                                          | 01.05.00 | Developing haul routes - Haul routes inside reservoir   | ACRES | 10         | 11,140    | 111,400     |
|                                          | 01.06.00 | Developing haul routes - Haul routes outside reservoir  | ACRES | -          | -         | -           |
| 02                                       | 02.00.00 | FOUNDATION EXCAVATION                                   |       |            |           | 1,426,782   |
|                                          | 02.01.00 | Structure Excavation (Bridge)                           | CY    | 20,137     | 46        | 926,302     |
|                                          | 02.02.00 | Structure Backfill (Bridge)                             | CY    | 8,704      | 58        | 500,480     |
| 03                                       | 03.00.00 | PILING                                                  |       |            |           | 21,513,743  |
|                                          | 03.01.00 | 24" CIDH Piles                                          | BCY   | 74,064     | 264       | 19,550,702  |
|                                          | 03.02.00 | Driven Piles - Class 200 - 16"                          | LF    | 4,950      | 178       | 882,681     |
|                                          | 03.03.00 | Driven Piles - Class 90 - 16"                           | CY    | 8,280      | 130       | 1,080,360   |
| 04                                       | 04.00.00 | BRIDGE FOUNDATIONS                                      |       |            |           | 11,789,017  |
|                                          | 04.01.00 | Bridge Footings                                         | BCY   | 11,112     | 1,061     | 11,789,017  |
| 05                                       | 05.00.00 | BRIDGE STRUCTURE                                        |       |            |           | 56,692,325  |
|                                          | 05.01.00 | Bridge Columns                                          | CY    | 16,343     | 1,874     | 30,624,739  |
|                                          | 05.02.00 | Bridge Girders - Precast - Directly Placed              | EA    | 40         | 64,977    | 2,599,072   |
|                                          | 05.03.00 | Bridge Girders - Precasted - Spliced on Site and Placed | EA    | 68         | 170,698   | 11,607,452  |
|                                          | 05.04.00 | Bridge Deck - Polymer Fiber Concrete                    | CY    | 6,317      | 1,764     | 11,144,212  |
|                                          | 05.05.00 | Joint Seals                                             | LF    | 426        | 1,685     | 716,850     |
| 06                                       | 06.00.00 | APPROACH WORK                                           |       |            |           | 767,773     |
|                                          | 06.01.00 | Retaining Wall                                          | CY    | 217        | 2,293     | 498,589     |
|                                          | 06.02.00 | Approach Slab                                           | CY    | 197        | 1,365     | 269,184     |
| 07                                       | 07.00.00 | GENERAL BRIDGE WORK                                     |       |            |           | 1,728,360   |
|                                          | 07.01.00 | Concrete Barrier                                        | LF    | 9,602      | 124       | 1,190,648   |
|                                          | 07.02.00 | Chain Link Railing                                      | LF    | 9,602      | 56        | 537,712     |
| 08                                       | 08.00.00 | ALLOWANCE FOR UNLISTED ITEMS                            |       |            |           | 4,802,952   |
|                                          | 08.01.00 | Allowance for Unlisted Items                            | %     | 5%         |           | 4,802,952   |
| Total Direct Cost - SLR Bridge           |          |                                                         |       |            |           | 100,861,991 |
| Total Direct Cost - Roads and SLR Bridge |          |                                                         |       |            |           | 401,878,413 |

| Retaining Walls |            |             |
|-----------------|------------|-------------|
| Qty             | Unit Rate  | Total       |
|                 |            | 2,141,040   |
| -               | -          | -           |
| 40              | 4,741.00   | 189,640     |
| -               | -          | -           |
| 40              | 46,000.00  | 1,840,000   |
| 10              | 11,140.00  | 111,400     |
| -               | -          | -           |
|                 |            | 1,426,782   |
| 20,137          | 46.00      | 926,302     |
| 8,704           | 57.50      | 500,480     |
|                 |            | 21,513,743  |
| 74,064          | 263.97     | 19,550,702  |
| 4,950           | 178.32     | 882,681     |
| 8,280           | 130.48     | 1,080,360   |
|                 |            | 11,789,017  |
| 11,112          | 1,060.89   | 11,789,017  |
|                 |            | 56,692,325  |
| 16,343          | 1,873.88   | 30,624,739  |
| 40              | 64,976.80  | 2,599,072   |
| 68              | 170,697.83 | 11,607,452  |
| 6,317           | 1,764.14   | 11,144,212  |
| 426             | 1,684.72   | 716,850     |
|                 |            | 767,773     |
| 217             | 2,292.85   | 498,589     |
| 197             | 1,364.88   | 269,184     |
|                 |            | 1,728,360   |
| 9,602           | 124.00     | 1,190,648   |
| 9,602           | 56.00      | 537,712     |
|                 |            | 4,802,952   |
| 5%              |            | 4,802,952   |
|                 |            | 100,861,991 |
|                 |            | 429,933,255 |

| Bridge Foundation |            |             |
|-------------------|------------|-------------|
| Qty               | Unit Rate  | Total       |
|                   |            | 2,141,040   |
| -                 | -          | -           |
| 40                | 4,741.00   | 189,640     |
| -                 | -          | -           |
| 40                | 46,000.00  | 1,840,000   |
| 10                | 11,140.00  | 111,400     |
| -                 | -          | -           |
|                   |            | 1,783,478   |
| 25,171            | 46.00      | 1,157,878   |
| 10,880            | 57.50      | 625,600     |
|                   |            | 26,892,178  |
| 92,580            | 263.97     | 24,438,377  |
| 6,188             | 178.32     | 1,103,352   |
| 10,350            | 130.48     | 1,350,450   |
|                   |            | 14,736,271  |
| 13,891            | 1,060.89   | 14,736,271  |
|                   |            | 56,692,325  |
| 16,343            | 1,873.88   | 30,624,739  |
| 40                | 64,976.80  | 2,599,072   |
| 68                | 170,697.83 | 11,607,452  |
| 6,317             | 1,764.14   | 11,144,212  |
| 426               | 1,684.72   | 716,850     |
|                   |            | 767,773     |
| 217               | 2,292.85   | 498,589     |
| 197               | 1,364.88   | 269,184     |
|                   |            | 1,728,360   |
| 9,602             | 124.00     | 1,190,648   |
| 9,602             | 56.00      | 537,712     |
|                   |            | 5,237,071   |
| 5%                |            | 5,237,071   |
|                   |            | 109,978,495 |
|                   |            | 410,994,918 |

| Bridge Height |            |             |
|---------------|------------|-------------|
| Qty           | Unit Rate  | Total       |
|               |            | 2,141,040   |
| -             | -          | -           |
| 40            | 4,741.00   | 189,640     |
| -             | -          | -           |
| 40            | 46,000.00  | 1,840,000   |
| 10            | 11,140.00  | 111,400     |
| -             | -          | -           |
|               |            | 1,640,799   |
| 23,158        | 46.00      | 1,065,247   |
| 10,010        | 57.50      | 575,552     |
|               |            | 23,665,117  |
| 81,470        | 263.97     | 21,505,772  |
| 5,445         | 178.32     | 970,949     |
| 9,108         | 130.48     | 1,188,396   |
|               |            | 13,557,369  |
| 12,779        | 1,060.89   | 13,557,369  |
|               |            | 65,651,889  |
| 20,429        | 1,873.88   | 38,280,924  |
| 42            | 64,976.80  | 2,729,026   |
| 71            | 170,697.83 | 12,187,825  |
| 6,633         | 1,764.14   | 11,701,422  |
| 447           | 1,684.72   | 752,693     |
|               |            | 767,773     |
| 217           | 2,292.85   | 498,589     |
| 197           | 1,364.88   | 269,184     |
|               |            | 1,728,360   |
| 9,602         | 124.00     | 1,190,648   |
| 9,602         | 56.00      | 537,712     |
|               |            | 5,457,617   |
| 5%            |            | 5,457,617   |
|               |            | 114,609,964 |
|               |            | 420,238,149 |

Sites Reservoir  
Roads and SLR Bridge Contingency Estimates  
Sites, CA

DIRECT COST LEVEL 2 SUMMARY

|      |           |                                                                                                                                         |      | 30% Design |            |             |
|------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------|------|------------|------------|-------------|
| Item | Sub Item  | Description                                                                                                                             | UoM  | Qty        | Unit Rate  | Total       |
| 01   | 01.00.00  | Preconstruction Activities                                                                                                              |      |            |            | 5,182,822   |
|      | 01.01.00  | Clearing And Grubbing                                                                                                                   | ACRE | 483        | 8,000.00   | 3,863,200   |
|      | 01.02.00  | Temporary Silt Fence                                                                                                                    | LF   | 659,811    | 2.00       | 1,319,622   |
| 02   | 02.00.00  | Roadway Excavation                                                                                                                      | CY   |            |            | 124,821,099 |
|      | 02.01.00  | Roadway Excavation - Load, Haul, Compact - Top Loading                                                                                  | CY   | 1,407,210  | 10.29      | 14,484,038  |
|      | 02.02.00  | Roadway Excavation - Load, Haul, Compact - Excess - Top Loading                                                                         | CY   | 3,458,746  | 10.28      | 35,573,066  |
|      | 02.03.00  | Roadway Excavation - Load, Haul, Waste - Organics - Scraper                                                                             | CY   | 540,754    | 6.54       | 3,536,422   |
|      | 02.04.00  | Roadway Excavation - Rock Cut - Drill and Shoot                                                                                         | CY   | 3,078,193  | 8.87       | 27,306,021  |
|      | 02.05.00  | Roadway Fill from Borrow - Load, Haul, Compact                                                                                          | CY   | 4,264,250  | 9.78       | 41,721,034  |
|      | 02.06.00  | Roadway Excavation (Causeway Removal of Alluvium Materials)                                                                             | CY   | 105,960    | 9.34       | 989,953     |
|      | 02.07.00  | Roadway Fill (Replacement of Alluvium with 10% Swell Factor)                                                                            | CY   | 116,550    | 10.39      | 1,210,564   |
| 03   | 03.00.00  | Causeway Protection                                                                                                                     |      |            |            | 40,281,090  |
|      | 03.01.00  | RSP Fabric (Type A)                                                                                                                     | SY   | 307,500    | 3.58       | 1,099,509   |
|      | 03.02.00  | RSP Bedding No. 1 (Method B) - Zone 7A                                                                                                  | CY   | 199,180    | 61.46      | 12,242,195  |
|      | 03.03.00  | Rock Slope Protection (1/4 T, Method B) - Zone 7B                                                                                       | CY   | 396,350    | 67.63      | 26,939,385  |
| 04   | 04.00.00  | Pavement Structural Section                                                                                                             |      |            |            | 65,031,962  |
|      | 04.01.00  | Hot Mix Asphalt (Type A)                                                                                                                | TON  | 78,265     | 103.45     | 8,096,871   |
|      | 04.02.00  | Jointed Plain Concrete Pavement (A.K.A. PCC Pavement)                                                                                   | CY   | 3,640      | 394.18     | 1,434,830   |
|      | 04.03.00  | Seal Pavement Joint                                                                                                                     | LF   | 9,960      | 2.00       | 19,920      |
|      | 04.04.00  | Seal Longitudinal Isolation Joint                                                                                                       | LF   | 4,330      | 2.00       | 8,660       |
|      | 04.05.00  | Class 2 Aggregate Base                                                                                                                  | CY   | 472,894    | 85.85      | 40,598,446  |
|      | 04.06.00  | Shoulder Backing (Class 2 AB Material Daylight To Side Slope)                                                                           | TON  | 251,340    | 50.00      | 12,567,000  |
|      | 04.07.00  | Cold Plane Asphalt Concrete Pavement                                                                                                    | SY   | 183,870    | 3.00       | 551,610     |
|      | 04.08.00  | Tack Coat                                                                                                                               | TON  | 58         | 2,085.81   | 121,224     |
|      | 04.09.00  | Full Depth Reclamation-Cement                                                                                                           | SY   | 104,570    | 15.53      | 1,624,372   |
|      | 04.15.00  | Remove Base And Surfacing                                                                                                               | CY   | 602        | 15.00      | 9,030       |
|      | 04.16.00  | Obsterate Surfacing                                                                                                                     | SY   | -          | -          | -           |
| 05   | 05.00.00  | Drainage                                                                                                                                |      |            |            | 5,001,316   |
|      | 05.01.00  | Remove Culvert                                                                                                                          | EA   | 91         | 1,950.00   | 177,450     |
|      | 05.02.00  | Abandon Culvert                                                                                                                         | EA   | 7          | 1,500.00   | 10,500      |
|      | 05.03.00  | 24" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                                                                               | LF   | 12,608     | 269.60     | 3,399,040   |
|      | 05.04.00  | 54" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                                                                               | LF   | 350        | 770.40     | 269,640     |
|      | 05.05.00  | Structural Concrete, Box Culvert (Single Cell)                                                                                          | CY   | 460        | 2,000.00   | 920,000     |
|      | 05.06.00  | Bar Reinforcing Steel (Box Culvert)                                                                                                     | LB   | 125,080    | 1.39       | 174,111     |
|      | 05.07.00  | Rock Pad Energy Dissipator (18" D X 5' W X 6' L)                                                                                        | CY   | 289        | 175.00     | 50,575      |
| 06   | 06.00.00  | Specialty Items                                                                                                                         |      |            |            | 1,695,900   |
|      | 06.01.00  | Treated Wood Waste                                                                                                                      | LB   | 30,100     | 0.50       | 15,050      |
|      | 06.01.00A | Allowance for Animal Crossings                                                                                                          | LS   |            |            | 5,000,000   |
|      | 06.02.00  | Remove Metal Beam Guard Railing                                                                                                         | LF   | 4,970      | 5.00       | 24,850      |
|      | 06.03.00  | Midwest Guardrail System (Wood Post) (Includes Transition Railing, Alternative Flared/In-Line Terminal System, And End Anchor Assembly) | LF   | 57,500     | 28.80      | 1,656,000   |
| 07   | 07.00.00  | Retaining Walls                                                                                                                         |      |            |            | 26,718,897  |
|      | 07.05.00  | Retaining Wall - MSE Wall                                                                                                               | SF   | 35,247     | 134.62     | 4,744,739   |
|      | 07.06.00  | Retaining Wall - Tie-Back Wall                                                                                                          | SF   | 190,443    | 115.38     | 21,974,157  |
| 08   | 08.00.00  | Traffic Items                                                                                                                           |      |            |            | 4,311,832   |
|      | 08.01.00  | Roadside Sign - One Post                                                                                                                | LF   | 122        | 3,500.00   | 428,117     |
|      | 08.02.00  | Two-Component Paint Traffic Stripe (6" Yellow), (Includes 2 Yellow Stripes And One Black)                                               | EA   | 88,600     | 1.97       | 174,365     |
|      | 08.03.00  | Two-Component Paint Traffic Stripe (6" White)                                                                                           | EA   | 168,020    | 0.66       | 110,221     |
|      | 08.04.00  | Two-Component Paint Pavement Marking                                                                                                    | SQFT | 1,581      | 14.15      | 22,371      |
|      | 08.05.00  | Construction Area Signs                                                                                                                 | LS   | 6          | 325,159.81 | 1,950,959   |
|      | 08.06.00  | Portable Changeable Message Sign                                                                                                        | LS   | 5          | 162,579.91 | 812,900     |
|      | 08.07.00  | Traffic Control System                                                                                                                  | LS   | 5          | 162,579.91 | 812,900     |
| 09   | 09.00.00  | Detours - Install and Remove                                                                                                            |      |            |            | 374,456     |
|      | 09.01.00  | Temporary Hot Mix Asphalt (Type A)                                                                                                      | CY   | 860        | 129.60     | 111,456     |
|      | 09.02.00  | Temporary Class 2 Aggregate Base                                                                                                        | CY   | 2,630      | 100.00     | 263,000     |
| 10   | 10.00.00  | Bridges                                                                                                                                 |      |            |            | 13,262,933  |
|      | 10.01.00  | Sites Lodoga Road Realignment - New Bridge - CIP PS Concrete Box Girder                                                                 | SF   | 5,575      | 750.00     | 4,181,250   |
|      | 10.02.00  | Road 69 - Replacement (Culver/Bridge) - PC/PS Concrete Slab Girder                                                                      | SF   | 2,848      | 416.67     | 1,186,667   |
|      | 10.03.00  | Road 69 - Replacement Bridge - PC/PS Concrete Box Girder                                                                                | SF   | 3,487      | 583.33     | 2,034,083   |
|      | 10.04.00  | Road 69 - Bridge Widening                                                                                                               | SF   | 2,497      | 50.00      | 124,850     |
|      | 10.05.00  | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | SF   | 3,262      | 583.33     | 1,902,833   |
|      | 10.06.00  | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | SF   | 3,337      | 583.33     | 1,946,583   |
|      | 10.07.00  | Funks Construction Access Road - New Bridge - PC/PS Concrete Box Girder                                                                 | SF   | 2,990      | 500.00     | 1,495,000   |
|      | 10.08.00  | Dam Spillway - New Bridge - PC/PS Concrete Slab Girder                                                                                  | SF   | 940        | 416.67     | 391,667     |
| 15   | 15.00.00  | ALLOWANCE FOR UNLISTED ITEMS                                                                                                            |      |            |            | 14,334,115  |
|      | 15.01.00  | Allowance for Unlisted Items                                                                                                            | %    | 5.0%       |            | 14,334,115  |
|      |           | Total Direct Cost - Roads                                                                                                               | -    |            |            | 301,016,422 |

| Bridge Type |            |             |
|-------------|------------|-------------|
| Qty         | Unit Rate  | Total       |
| 483         | 8,000.00   | 3,863,200   |
| 659,811     | 2.00       | 1,319,622   |
|             |            | 124,821,099 |
| 1,407,210   | 10.29      | 14,484,038  |
| 3,458,746   | 10.28      | 35,573,066  |
| 540,754     | 6.54       | 3,536,422   |
| 3,078,193   | 8.87       | 27,306,021  |
| 4,264,250   | 9.78       | 41,721,034  |
| 105,960     | 9.34       | 989,953     |
| 116,550     | 10.39      | 1,210,564   |
|             |            | 40,281,090  |
| 307,500     | 3.58       | 1,099,509   |
| 199,180     | 61.46      | 12,242,195  |
| 396,350     | 67.63      | 26,939,385  |
|             |            | 65,031,962  |
| 78,265      | 103.45     | 8,096,871   |
| 3,640       | 394.18     | 1,434,830   |
| 9,960       | 2.00       | 19,920      |
| 4,330       | 2.00       | 8,660       |
| 472,894     | 85.85      | 40,598,446  |
| 251,340     | 50.00      | 12,567,000  |
| 183,870     | 3.00       | 551,610     |
| 58          | 2,085.81   | 121,224     |
| 104,570     | 15.53      | 1,624,372   |
| 602         | 15.00      | 9,030       |
| -           | -          | -           |
|             |            | 5,001,316   |
| 91          | 1,950.00   | 177,450     |
| 7           | 1,500.00   | 10,500      |
| 12,608      | 269.60     | 3,399,040   |
| 350         | 770.40     | 269,640     |
| 460         | 2,000.00   | 920,000     |
| 125,080     | 1.39       | 174,111     |
| 289         | 175.00     | 50,575      |
|             |            | 1,695,900   |
| 30,100      | 0.50       | 15,050      |
|             |            | 5,000,000   |
| 4,970       | 5.00       | 24,850      |
| 57,500      | 28.80      | 1,656,000   |
|             |            | 26,718,897  |
| 35,247      | 134.62     | 4,744,739   |
| 190,443     | 115.38     | 21,974,157  |
|             |            | 4,311,832   |
| 122         | 3,500.00   | 428,117     |
| 88,600      | 1.97       | 174,365     |
| 168,020     | 0.66       | 110,221     |
| 1,581       | 14.15      | 22,371      |
| 6           | 325,159.81 | 1,950,959   |
| 5           | 162,579.91 | 812,900     |
| 5           | 162,579.91 | 812,900     |
|             |            | 374,456     |
| 860         | 129.60     | 111,456     |
| 2,630       | 100.00     | 263,000     |
|             |            | 13,262,933  |
| 5,575       | 750.00     | 4,181,250   |
| 2,848       | 416.67     | 1,186,667   |
| 3,487       | 583.33     | 2,034,083   |
| 2,497       | 50.00      | 124,850     |
| 3,262       | 583.33     | 1,902,833   |
| 3,337       | 583.33     | 1,946,583   |
| 2,990       | 500.00     | 1,495,000   |
| 940         | 416.67     | 391,667     |
|             |            | 14,334,115  |
| 5.0%        |            | 14,334,115  |
|             |            | 301,016,422 |

| Animal Crossings |            |             |
|------------------|------------|-------------|
| Qty              | Unit Rate  | Total       |
| 483              | 8,000.00   | 3,863,200   |
| 659,811          | 2.00       | 1,319,622   |
|                  |            | 124,821,099 |
| 1,407,210        | 10.29      | 14,484,038  |
| 3,458,746        | 10.28      | 35,573,066  |
| 540,754          | 6.54       | 3,536,422   |
| 3,078,193        | 8.87       | 27,306,021  |
| 4,264,250        | 9.78       | 41,721,034  |
| 105,960          | 9.34       | 989,953     |
| 116,550          | 10.39      | 1,210,564   |
|                  |            | 40,281,090  |
| 307,500          | 3.58       | 1,099,509   |
| 199,180          | 61.46      | 12,242,195  |
| 396,350          | 67.63      | 26,939,385  |
|                  |            | 65,031,962  |
| 78,265           | 103.45     | 8,096,871   |
| 3,640            | 394.18     | 1,434,830   |
| 9,960            | 2.00       | 19,920      |
| 4,330            | 2.00       | 8,660       |
| 472,894          | 85.85      | 40,598,446  |
| 251,340          | 50.00      | 12,567,000  |
| 183,870          | 3.00       | 551,610     |
| 58               | 2,085.81   | 121,224     |
| 104,570          | 15.53      | 1,624,372   |
| 602              | 15.00      | 9,030       |
| -                | -          | -           |
|                  |            | 5,001,316   |
| 91               | 1,950.00   | 177,450     |
| 7                | 1,500.00   | 10,500      |
| 12,608           | 269.60     | 3,399,040   |
| 350              | 770.40     | 269,640     |
| 460              | 2,000.00   | 920,000     |
| 125,080          | 1.39       | 174,111     |
| 289              | 175.00     | 50,575      |
|                  |            | 6,695,900   |
| 30,100           | 0.50       | 15,050      |
|                  |            | 5,000,000   |
| 4,970            | 5.00       | 24,850      |
| 57,500           | 28.80      | 1,656,000   |
|                  |            | 26,718,897  |
| 35,247           | 134.62     | 4,744,739   |
| 190,443          | 115.38     | 21,974,157  |
|                  |            | 4,311,832   |
| 122              | 3,500.00   | 428,117     |
| 88,600           | 1.97       | 174,365     |
| 168,020          | 0.66       | 110,221     |
| 1,581            | 14.15      | 22,371      |
| 6                | 325,159.81 | 1,950,959   |
| 5                | 162,579.91 | 812,900     |
| 5                | 162,579.91 | 812,900     |
|                  |            | 374,456     |
| 860              | 129.60     | 111,456     |
| 2,630            | 100.00     | 263,000     |
|                  |            | 13,262,933  |
| 5,575            | 750.00     | 4,181,250   |
| 2,848            | 416.67     | 1,186,667   |
| 3,487            | 583.33     | 2,034,083   |
| 2,497            | 50.00      | 124,850     |
| 3,262            | 583.33     | 1,902,833   |
| 3,337            | 583.33     | 1,946,583   |
| 2,990            | 500.00     | 1,495,000   |
| 940              | 416.67     | 391,667     |
|                  |            | 14,584,115  |
| 5.0%             |            | 14,584,115  |
|                  |            | 306,266,422 |

| Drainage  |            |             |
|-----------|------------|-------------|
| Qty       | Unit Rate  | Total       |
| 483       | 8,000.00   | 3,863,200   |
| 659,811   | 2.00       | 1,319,622   |
|           |            | 124,821,099 |
| 1,407,210 | 10.29      | 14,484,038  |
| 3,458,746 | 10.28      | 35,573,066  |
| 540,754   | 6.54       | 3,536,422   |
| 3,078,193 | 8.87       | 27,306,021  |
| 4,264,250 | 9.78       | 41,721,034  |
| 105,960   | 9.34       | 989,953     |
| 116,550   | 10.39      | 1,210,564   |
|           |            | 40,281,090  |
| 307,500   | 3.58       | 1,099,509   |
| 199,180   | 61.46      | 12,242,195  |
| 396,350   | 67.63      | 26,939,385  |
|           |            | 65,031,962  |
| 78,265    | 103.45     | 8,096,871   |
| 3,640     | 394.18     | 1,434,830   |
| 9,960     | 2.00       | 19,920      |
| 4,330     | 2.00       | 8,660       |
| 472,894   | 85.85      | 40,598,446  |
| 251,340   | 50.00      | 12,567,000  |
| 183,870   | 3.00       | 551,610     |
| 58        | 2,085.81   | 121,224     |
| 104,570   | 15.53      | 1,624,372   |
| 602       | 15.00      | 9,030       |
| -         | -          | -           |
|           |            | 7,501,974   |
| 137       | 1,950.00   | 266,175     |
| 11        | 1,500.00   | 15,750      |
| 18,912    | 269.60     | 5,098,560   |
| 525       | 770.40     | 404,460     |
| 690       | 2,000.00   | 1,380,000   |
| 187,620   | 1.39       | 261,167     |
| 434       | 175.00     | 75,863      |
|           |            | 1,695,900   |
| 30,100    | 0.50       | 15,050      |
|           |            | 5,000,000   |
| 4,970     | 5.00       | 24,850      |
| 57,500    | 28.80      | 1,656,000   |
|           |            | 26,718,897  |
| 35,247    | 134.62     | 4,744,739   |
| 190,443   | 115.38     | 21,974,157  |
|           |            | 4,311,832   |
| 122       | 3,500.00   | 428,117     |
| 88,600    | 1.97       | 174,365     |
| 168,020   | 0.66       | 110,221     |
| 1,581     | 14.15      | 22,371      |
| 6         | 325,159.81 | 1,950,959   |
| 5         | 162,579.91 | 812,900     |
| 5         | 162,579.91 | 812,900     |
|           |            | 374,456     |
| 860       | 129.60     | 111,456     |
| 2,630     | 100.00     | 263,000     |
|           |            | 13,262,933  |
| 5,575     | 750.00     | 4,181,250   |
| 2,848     | 416.67     | 1,186,667   |
| 3,487     | 583.33     | 2,034,083   |
| 2,497     | 50.00      | 124,850     |
| 3,262     | 583.33     | 1,902,833   |
| 3,337     | 583.33     | 1,946,583   |
| 2,990     | 500.00     | 1,495,000   |
| 940       | 416.67     | 391,667     |
|           |            | 14,584,115  |
| 5.0%      |            | 14,584,115  |
|           |            | 303,642,113 |

Sites Reservoir  
Roads and SLR Bridge Contingency Estimates  
Sites, CA

DIRECT COST LEVEL 2 SUMMARY

|                                          |          |                                                         |       | 30% Design |           |             |
|------------------------------------------|----------|---------------------------------------------------------|-------|------------|-----------|-------------|
| Item                                     | Sub Item | Description                                             | UoM   | Qty        | Unit Rate | Total       |
| 01                                       | 01.00.00 | PRECONSTRUCTION ACTIVITIES                              |       |            |           | 2,141,040   |
|                                          | 01.01.00 | Demolition Work                                         | LS    | -          | -         | -           |
|                                          | 01.02.00 | Clearing and Grubbing                                   | ACRE  | 40         | 4,741     | 189,640     |
|                                          | 01.03.00 | Reservoir Clearing                                      | ACRE  | -          | -         | -           |
|                                          | 01.04.00 | Erosion and Sediment Control                            | ACRE  | 40         | 46,000    | 1,840,000   |
|                                          | 01.05.00 | Developing haul routes - Haul routes inside reservoir   | ACRES | 10         | 11,140    | 111,400     |
|                                          | 01.06.00 | Developing haul routes - Haul routes outside reservoir  | ACRES | -          | -         | -           |
| 02                                       | 02.00.00 | FOUNDATION EXCAVATION                                   |       |            |           | 1,426,782   |
|                                          | 02.01.00 | Structure Excavation (Bridge)                           | CY    | 20,137     | 46        | 926,302     |
|                                          | 02.02.00 | Structure Backfill (Bridge)                             | CY    | 8,704      | 58        | 500,480     |
| 03                                       | 03.00.00 | PILING                                                  |       |            |           | 21,513,743  |
|                                          | 03.01.00 | 24" CIDH Piles                                          | BCY   | 74,064     | 264       | 19,550,702  |
|                                          | 03.02.00 | Driven Piles - Class 200 - 16"                          | LF    | 4,950      | 178       | 882,681     |
|                                          | 03.03.00 | Driven Piles - Class 90 - 16"                           | CY    | 8,280      | 130       | 1,080,360   |
| 04                                       | 04.00.00 | BRIDGE FOUNDATIONS                                      |       |            |           | 11,789,017  |
|                                          | 04.01.00 | Bridge Footings                                         | BCY   | 11,112     | 1,061     | 11,789,017  |
| 05                                       | 05.00.00 | BRIDGE STRUCTURE                                        |       |            |           | 56,692,325  |
|                                          | 05.01.00 | Bridge Columns                                          | CY    | 16,343     | 1,874     | 30,624,739  |
|                                          | 05.02.00 | Bridge Girders - Precast - Directly Placed              | EA    | 40         | 64,977    | 2,599,072   |
|                                          | 05.03.00 | Bridge Girders - Precasted - Spliced on Site and Placed | EA    | 68         | 170,698   | 11,607,452  |
|                                          | 05.04.00 | Bridge Deck - Polymer Fiber Concrete                    | CY    | 6,317      | 1,764     | 11,144,212  |
|                                          | 05.05.00 | Joint Seals                                             | LF    | 426        | 1,685     | 716,850     |
| 06                                       | 06.00.00 | APPROACH WORK                                           |       |            |           | 767,773     |
|                                          | 06.01.00 | Retaining Wall                                          | CY    | 217        | 2,293     | 498,589     |
|                                          | 06.02.00 | Approach Slab                                           | CY    | 197        | 1,365     | 269,184     |
| 07                                       | 07.00.00 | GENERAL BRIDGE WORK                                     |       |            |           | 1,728,360   |
|                                          | 07.01.00 | Concrete Barrier                                        | LF    | 9,602      | 124       | 1,190,648   |
|                                          | 07.02.00 | Chain Link Railing                                      | LF    | 9,602      | 56        | 537,712     |
| 08                                       | 08.00.00 | ALLOWANCE FOR UNLISTED ITEMS                            |       |            |           | 4,802,952   |
|                                          | 08.01.00 | Allowance for Unlisted Items                            | %     | 5%         |           | 4,802,952   |
| Total Direct Cost - SLR Bridge           |          |                                                         |       |            |           | 100,861,991 |
| Total Direct Cost - Roads and SLR Bridge |          |                                                         |       |            |           | 401,878,413 |

| Bridge Type |            |             |
|-------------|------------|-------------|
| Qty         | Unit Rate  | Total       |
|             |            | 2,141,040   |
| -           | -          | -           |
| 40          | 4,741.00   | 189,640     |
| -           | -          | -           |
| 40          | 46,000.00  | 1,840,000   |
| 10          | 11,140.00  | 111,400     |
| -           | -          | -           |
|             |            | 1,426,782   |
| 20,137      | 46.00      | 926,302     |
| 8,704       | 57.50      | 500,480     |
|             |            | 21,513,743  |
| 74,064      | 263.97     | 19,550,702  |
| 4,950       | 178.32     | 882,681     |
| 8,280       | 130.48     | 1,080,360   |
|             |            | 11,789,017  |
| 11,112      | 1,060.89   | 11,789,017  |
|             |            | 90,416,095  |
| 20,429      | 1,873.88   | 38,280,924  |
| 40          | 129,953.60 | 5,198,144   |
| 68          | 341,395.65 | 23,214,905  |
| 6,317       | 3,528.29   | 22,288,423  |
| 426         | 3,369.45   | 1,433,700   |
|             |            | 767,773     |
| 217         | 2,292.85   | 498,589     |
| 197         | 1,364.88   | 269,184     |
|             |            | 1,728,360   |
| 9,602       | 124.00     | 1,190,648   |
| 9,602       | 56.00      | 537,712     |
|             |            | 6,489,140   |
| 5%          |            | 136,271,950 |
|             |            | 437,288,372 |

| Animal Crossings |            |             |
|------------------|------------|-------------|
| Qty              | Unit Rate  | Total       |
|                  |            | 2,141,040   |
| -                | -          | -           |
| 40               | 4,741.00   | 189,640     |
| -                | -          | -           |
| 40               | 46,000.00  | 1,840,000   |
| 10               | 11,140.00  | 111,400     |
| -                | -          | -           |
|                  |            | 1,426,782   |
| 20,137           | 46.00      | 926,302     |
| 8,704            | 57.50      | 500,480     |
|                  |            | 21,513,743  |
| 74,064           | 263.97     | 19,550,702  |
| 4,950            | 178.32     | 882,681     |
| 8,280            | 130.48     | 1,080,360   |
|                  |            | 11,789,017  |
| 11,112           | 1,060.89   | 11,789,017  |
|                  |            | 56,692,325  |
| 16,343           | 1,873.88   | 30,624,739  |
| 40               | 64,976.80  | 2,599,072   |
| 68               | 170,697.83 | 11,607,452  |
| 6,317            | 1,764.14   | 11,144,212  |
| 426              | 1,684.72   | 716,850     |
|                  |            | 767,773     |
| 217              | 2,292.85   | 498,589     |
| 197              | 1,364.88   | 269,184     |
|                  |            | 1,728,360   |
| 9,602            | 124.00     | 1,190,648   |
| 9,602            | 56.00      | 537,712     |
|                  |            | 4,802,952   |
| 5%               |            | 100,861,991 |
|                  |            | 407,128,413 |

| Drainage |            |             |
|----------|------------|-------------|
| Qty      | Unit Rate  | Total       |
|          |            | 2,141,040   |
| -        | -          | -           |
| 40       | 4,741.00   | 189,640     |
| -        | -          | -           |
| 40       | 46,000.00  | 1,840,000   |
| 10       | 11,140.00  | 111,400     |
| -        | -          | -           |
|          |            | 1,426,782   |
| 20,137   | 46.00      | 926,302     |
| 8,704    | 57.50      | 500,480     |
|          |            | 21,513,743  |
| 74,064   | 263.97     | 19,550,702  |
| 4,950    | 178.32     | 882,681     |
| 8,280    | 130.48     | 1,080,360   |
|          |            | 11,789,017  |
| 11,112   | 1,060.89   | 11,789,017  |
|          |            | 56,692,325  |
| 16,343   | 1,873.88   | 30,624,739  |
| 40       | 64,976.80  | 2,599,072   |
| 68       | 170,697.83 | 11,607,452  |
| 6,317    | 1,764.14   | 11,144,212  |
| 426      | 1,684.72   | 716,850     |
|          |            | 767,773     |
| 217      | 2,292.85   | 498,589     |
| 197      | 1,364.88   | 269,184     |
|          |            | 1,728,360   |
| 9,602    | 124.00     | 1,190,648   |
| 9,602    | 56.00      | 537,712     |
|          |            | 4,802,952   |
| 5%       |            | 100,861,991 |
|          |            | 404,504,104 |

Sites Reservoir  
Roads and SLR Bridge Contingency Estimates  
Sites, CA

Cost Estimate  
AAECI Class 3  
February 27, 2025

DIRECT COST LEVEL 2 SUMMARY

|      |           |                                                                                                                                         |      | 30% Design |            |             | ADJ  | 68.69,D Raise - \$11.5M x 2 |            |             |
|------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------|------|------------|------------|-------------|------|-----------------------------|------------|-------------|
| Item | Sub Item  | Description                                                                                                                             | UoM  | Qty        | Unit Rate  | Total       |      | Qty                         | Unit Rate  | Total       |
| 01   | 01.00.00  | Preconstruction Activities                                                                                                              |      |            |            | 5,182,822   |      |                             |            | 5,182,822   |
|      | 01.01.00  | Clearing And Grubbing                                                                                                                   | ACRE | 483        | 8,000.00   | 3,863,200   | 100% | 483                         | 8,000.00   | 3,863,200   |
|      | 01.02.00  | Temporary Silt Fence                                                                                                                    | LF   | 659,811    | 2.00       | 1,319,622   | 100% | 659,811                     | 2.00       | 1,319,622   |
| 02   | 02.00.00  | Roadway Excavation                                                                                                                      | CY   |            |            | 124,821,099 |      |                             |            | 124,821,099 |
|      | 02.01.00  | Roadway Excavation - Load, Haul, Compact - Top Loading                                                                                  | CY   | 1,407,210  | 10.29      | 14,484,038  | 100% | 1,407,210                   | 10.29      | 14,484,038  |
|      | 02.02.00  | Roadway Excavation - Load, Haul, Compact - Excess - Top Loading                                                                         | CY   | 3,458,746  | 10.28      | 35,573,066  | 100% | 3,458,746                   | 10.28      | 35,573,066  |
|      | 02.03.00  | Roadway Excavation - Load, Haul, Waste - Organics - Scraper                                                                             | CY   | 540,754    | 6.54       | 3,536,422   | 100% | 540,754                     | 6.54       | 3,536,422   |
|      | 02.04.00  | Roadway Excavation - Rock Cut - Drill and Shoot                                                                                         | CY   | 3,078,193  | 8.87       | 27,306,021  | 100% | 3,078,193                   | 8.87       | 27,306,021  |
|      | 02.05.00  | Roadway Fill from Borrow - Load, Haul, Compact                                                                                          | CY   | 4,264,250  | 9.78       | 41,721,034  | 100% | 4,264,250                   | 9.78       | 41,721,034  |
|      | 02.06.00  | Roadway Excavation (Causeway Removal of Alluvium Materials)                                                                             | CY   | 105,960    | 9.34       | 989,953     | 100% | 105,960                     | 9.34       | 989,953     |
|      | 02.07.00  | Roadway Fill (Replacement of Alluvium with 10% Swell Factor)                                                                            | CY   | 116,550    | 10.39      | 1,210,564   | 100% | 116,550                     | 10.39      | 1,210,564   |
| 03   | 03.00.00  | Causeway Protection                                                                                                                     |      |            |            | 40,281,090  |      |                             |            | 40,281,090  |
|      | 03.01.00  | RSP Fabric (Type A)                                                                                                                     | SY   | 307,500    | 3.58       | 1,099,509   | 100% | 307,500                     | 3.58       | 1,099,509   |
|      | 03.02.00  | RSP Bedding No. 1 (Method B) - Zone 7A                                                                                                  | CY   | 199,180    | 61.46      | 12,242,195  | 100% | 199,180                     | 61.46      | 12,242,195  |
|      | 03.03.00  | Rock Slope Protection (1/4 T, Method B) - Zone 7B                                                                                       | CY   | 396,350    | 67.63      | 26,939,385  | 100% | 396,350                     | 67.63      | 26,939,385  |
| 04   | 04.00.00  | Pavement Structural Section                                                                                                             |      |            |            | 65,031,962  |      |                             |            | 74,907,590  |
|      | 04.01.00  | Hot Mix Asphalt (Type A)                                                                                                                | TON  | 78,265     | 103.45     | 8,096,871   | 100% | 78,265                      | 103.45     | 8,096,871   |
|      | 04.02.00  | Jointed Plain Concrete Pavement (A,K,A, PCC Pavement)                                                                                   | CY   | 3,640      | 394.18     | 1,434,830   | 100% | 3,640                       | 394.18     | 1,434,830   |
|      | 04.03.00  | Seal Pavement Joint                                                                                                                     | LF   | 9,960      | 2.00       | 19,920      | 100% | 9,960                       | 2.00       | 19,920      |
|      | 04.04.00  | Seal Longitudinal Isolation Joint                                                                                                       | LF   | 4,330      | 2.00       | 8,660       | 100% | 4,330                       | 2.00       | 8,660       |
|      | 04.05.00  | Class 2 Aggregate Base                                                                                                                  | CY   | 472,894    | 85.85      | 40,598,446  | 100% | 472,894                     | 85.85      | 40,598,446  |
|      | 04.06.00  | Shoulder Backing (Class 2 AB Material Daylight To Side Slope)                                                                           | TON  | 251,340    | 50.00      | 12,567,000  | 100% | 251,340                     | 50.00      | 12,567,000  |
|      | 04.07.00  | Cold Plane Asphalt Concrete Pavement                                                                                                    | SY   | 183,870    | 3.00       | 551,610     | 100% | 183,870                     | 3.00       | 551,610     |
|      | 04.08.00  | Tack Coat                                                                                                                               | TON  | 58         | 2,085.81   | 121,224     | 100% | 58                          | 2,085.81   | 121,224     |
|      | 04.09.00  | Full Depth Reclamation-Cement                                                                                                           | SY   | 104,570    | 15.53      | 1,624,372   | 708% | 740,320                     | 15.53      | 11,500,000  |
|      | 04.15.00  | Remove Base And Surfacing                                                                                                               | CY   | 602        | 15.00      | 9,030       | 100% | 602                         | 15.00      | 9,030       |
|      | 04.16.00  | Obturate Surfacing                                                                                                                      | SY   | -          | -          | -           | 100% | -                           | -          | -           |
| 05   | 05.00.00  | Drainage                                                                                                                                |      |            |            | 5,001,316   |      |                             |            | 5,001,316   |
|      | 05.01.00  | Remove Culvert                                                                                                                          | EA   | 91         | 1,950.00   | 177,450     | 100% | 91                          | 1,950.00   | 177,450     |
|      | 05.02.00  | Abandon Culvert                                                                                                                         | EA   | 7          | 1,500.00   | 10,500      | 100% | 7                           | 1,500.00   | 10,500      |
|      | 05.03.00  | 24" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                                                                               | LF   | 12,608     | 269.60     | 3,399,040   | 100% | 12,608                      | 269.60     | 3,399,040   |
|      | 05.04.00  | 54" Pipe Culvert (Galv. Corrugated Metal) (Total = XX Ea)                                                                               | LF   | 350        | 770.40     | 269,640     | 100% | 350                         | 770.40     | 269,640     |
|      | 05.05.00  | Structural Concrete, Box Culvert (Single Cell)                                                                                          | CY   | 460        | 2,000.00   | 920,000     | 100% | 460                         | 2,000.00   | 920,000     |
|      | 05.06.00  | Bar Reinforcing Steel (Box Culvert)                                                                                                     | LB   | 125,080    | 1.39       | 174,111     | 100% | 125,080                     | 1.39       | 174,111     |
|      | 05.07.00  | Rock Pad Energy Dissipator (18" D X 5' W X 6' L)                                                                                        | CY   | 289        | 175.00     | 50,575      | 100% | 289                         | 175.00     | 50,575      |
| 06   | 06.00.00  | Specialty Items                                                                                                                         |      |            |            | 1,695,900   |      |                             |            | 1,695,900   |
|      | 06.01.00  | Treated Wood Waste                                                                                                                      | LB   | 30,100     | 0.50       | 15,050      | 100% | 30,100                      | 0.50       | 15,050      |
|      | 06.01.00A | Allowance for Animal Crossings                                                                                                          | LS   |            |            |             |      |                             |            |             |
|      | 06.02.00  | Remove Metal Beam Guard Railing                                                                                                         | LF   | 4,970      | 5.00       | 24,850      | 100% | 4,970                       | 5.00       | 24,850      |
|      | 06.03.00  | Midwest Guardrail System (Wood Post) (Includes Transition Railing, Alternative Flared/In-Line Terminal System, And End Anchor Assembly) | LF   | 57,500     | 28.80      | 1,656,000   | 100% | 57,500                      | 28.80      | 1,656,000   |
| 07   | 07.00.00  | Retaining Walls                                                                                                                         |      |            |            | 26,718,897  |      |                             |            | 26,718,897  |
|      | 07.05.00  | Retaining Wall - MSE Wall                                                                                                               | SF   | 35,247     | 134.62     | 4,744,739   | 100% | 35,247                      | 134.62     | 4,744,739   |
|      | 07.06.00  | Retaining Wall - Tie-Back Wall                                                                                                          | SF   | 190,443    | 115.38     | 21,974,157  | 100% | 190,443                     | 115.38     | 21,974,157  |
| 08   | 08.00.00  | Traffic Items                                                                                                                           |      |            |            | 4,311,832   |      |                             |            | 4,311,832   |
|      | 08.01.00  | Roadside Sign - One Post                                                                                                                | LF   | 122        | 3,500.00   | 428,117     | 100% | 122                         | 3,500.00   | 428,117     |
|      | 08.02.00  | Two-Component Paint Traffic Stripe (6" Yellow), (Includes 2 Yellow Stripes And One Black)                                               | EA   | 88,600     | 1.97       | 174,365     | 100% | 88,600                      | 1.97       | 174,365     |
|      | 08.03.00  | Two-Component Paint Traffic Stripe (6" White)                                                                                           | EA   | 168,020    | 0.66       | 110,221     | 100% | 168,020                     | 0.66       | 110,221     |
|      | 08.04.00  | Two-Component Paint Pavement Marking                                                                                                    | SQFT | 1,581      | 14.15      | 22,371      | 100% | 1,581                       | 14.15      | 22,371      |
|      | 08.05.00  | Construction Area Signs                                                                                                                 | LS   | 6          | 325,159.81 | 1,950,959   | 100% | 6                           | 325,159.81 | 1,950,959   |
|      | 08.06.00  | Portable Changeable Message Sign                                                                                                        | LS   | 5          | 162,579.91 | 812,900     | 100% | 5                           | 162,579.91 | 812,900     |
|      | 08.07.00  | Traffic Control System                                                                                                                  | LS   | 5          | 162,579.91 | 812,900     | 100% | 5                           | 162,579.91 | 812,900     |
| 09   | 09.00.00  | Detours - Install and Remove                                                                                                            |      |            |            | 374,456     |      |                             |            | 374,456     |
|      | 09.01.00  | Temporary Hot Mix Asphalt (Type A)                                                                                                      | CY   | 860        | 129.60     | 111,456     | 100% | 860                         | 129.60     | 111,456     |
|      | 09.02.00  | Temporary Class 2 Aggregate Base                                                                                                        | CY   | 2,630      | 100.00     | 263,000     | 100% | 2,630                       | 100.00     | 263,000     |
| 10   | 10.00.00  | Bridges                                                                                                                                 |      |            |            | 13,262,933  |      |                             |            | 13,262,933  |
|      | 10.01.00  | Sites Lodoga Road Realignment - New Bridge - CIP PS Concrete Box Girder                                                                 | SF   | 5,575      | 750.00     | 4,181,250   | 100% | 5,575                       | 750.00     | 4,181,250   |
|      | 10.02.00  | Road 69 - Replacement (Culvert/Bridge)- PC/PS Concrete Slab Girder                                                                      | SF   | 2,848      | 416.67     | 1,186,667   | 100% | 2,848                       | 416.67     | 1,186,667   |
|      | 10.03.00  | Road 69 - Replacement Bridge - PC/PS Concrete Box Girder                                                                                | SF   | 3,487      | 583.33     | 2,034,083   | 100% | 3,487                       | 583.33     | 2,034,083   |
|      | 10.04.00  | Road 69 - Bridge Widening                                                                                                               | SF   | 2,497      | 50.00      | 124,850     | 100% | 2,497                       | 50.00      | 124,850     |
|      | 10.05.00  | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | SF   | 3,262      | 583.33     | 1,902,833   | 100% | 3,262                       | 583.33     | 1,902,833   |
|      | 10.06.00  | Delevan Road Extension - Replacement Bridge - PC/PS Concrete Box Girder                                                                 | SF   | 3,337      | 583.33     | 1,946,583   | 100% | 3,337                       | 583.33     | 1,946,583   |
|      | 10.07.00  | Funks Construction Access Road - New Bridge - PC/PS Concrete Box Girder                                                                 | SF   | 2,990      | 500.00     | 1,495,000   | 100% | 2,990                       | 500.00     | 1,495,000   |
|      | 10.08.00  | Dam Spillway - New Bridge - PC/PS Concrete Slab Girder                                                                                  | SF   | 940        | 416.67     | 391,667     | 100% | 940                         | 416.67     | 391,667     |
| 15   | 15.00.00  | ALLOWANCE FOR UNLISTED ITEMS                                                                                                            |      |            |            | 14,334,115  |      |                             |            | 14,827,897  |
|      | 15.01.00  | Allowance for Unlisted Items                                                                                                            | %    | 5.0%       |            | 14,334,115  |      | 5.0%                        |            | 14,827,897  |
|      |           | Total Direct Cost - Roads                                                                                                               | -    |            |            | 301,016,422 |      |                             |            | 311,365,832 |

Sites Reservoir  
Roads and SLR Bridge Contingency Estimates  
Sites, CA

Cost Estimate  
AACEI Class 3  
February 27, 2025

DIRECT COST LEVEL 2 SUMMARY

|                                          |          |                                                         | 30% Design |        |           | ADJ         | 68,69,D Raise - \$11.5M x 2 |           |             |
|------------------------------------------|----------|---------------------------------------------------------|------------|--------|-----------|-------------|-----------------------------|-----------|-------------|
| Item                                     | Sub Item | Description                                             | UoM        | Qty    | Unit Rate | Total       | Qty                         | Unit Rate | Total       |
| 01                                       | 01.00.00 | PRECONSTRUCTION ACTIVITIES                              |            |        |           | 2,141,040   |                             |           | 2,141,040   |
|                                          | 01.01.00 | Demolition Work                                         | LS         | -      | -         | -           | 100%                        | -         | -           |
|                                          | 01.02.00 | Clearing and Grubbing                                   | ACRE       | 40     | 4,741     | 189,640     | 100%                        | 40        | 4,741.00    |
|                                          | 01.03.00 | Reservoir Clearing                                      | ACRE       | -      | -         | -           | 100%                        | -         | -           |
|                                          | 01.04.00 | Erosion and Sediment Control                            | ACRE       | 40     | 46,000    | 1,840,000   | 100%                        | 40        | 46,000.00   |
|                                          | 01.05.00 | Developing haul routes - Haul routes inside reservoir   | ACRES      | 10     | 11,140    | 111,400     | 100%                        | 10        | 11,140.00   |
|                                          | 01.06.00 | Developing haul routes - Haul routes outside reservoir  | ACRES      | -      | -         | -           | 100%                        | -         | -           |
| 02                                       | 02.00.00 | FOUNDATION EXCAVATION                                   |            |        |           | 1,426,782   |                             |           | 1,426,782   |
|                                          | 02.01.00 | Structure Excavation (Bridge)                           | CY         | 20,137 | 46        | 926,302     | 100%                        | 20,137    | 46.00       |
|                                          | 02.02.00 | Structure Backfill (Bridge)                             | CY         | 8,704  | 58        | 500,480     | 100%                        | 8,704     | 57.50       |
| 03                                       | 03.00.00 | PILING                                                  |            |        |           | 21,513,743  |                             |           | 21,513,743  |
|                                          | 03.01.00 | 24" CIDH Piles                                          | BCY        | 74,064 | 264       | 19,550,702  | 100%                        | 74,064    | 263.97      |
|                                          | 03.02.00 | Driven Piles - Class 200 - 16"                          | LF         | 4,950  | 178       | 882,681     | 100%                        | 4,950     | 178.32      |
|                                          | 03.03.00 | Driven Piles - Class 90 - 16"                           | CY         | 8,280  | 130       | 1,080,360   | 100%                        | 8,280     | 130.48      |
| 04                                       | 04.00.00 | BRIDGE FOUNDATIONS                                      |            |        |           | 11,789,017  |                             |           | 11,789,017  |
|                                          | 04.01.00 | Bridge Footings                                         | BCY        | 11,112 | 1,061     | 11,789,017  | 100%                        | 11,112    | 1,060.89    |
| 05                                       | 05.00.00 | BRIDGE STRUCTURE                                        |            |        |           | 56,692,325  |                             |           | 56,692,325  |
|                                          | 05.01.00 | Bridge Columns                                          | CY         | 16,343 | 1,874     | 30,624,739  | 100%                        | 16,343    | 1,873.88    |
|                                          | 05.02.00 | Bridge Girders - Precast - Directly Placed              | EA         | 40     | 64,977    | 2,599,072   | 100%                        | 40        | 64,976.80   |
|                                          | 05.03.00 | Bridge Girders - Precasted - Spliced on Site and Placed | EA         | 68     | 170,698   | 11,607,452  | 100%                        | 68        | 170,697.83  |
|                                          | 05.04.00 | Bridge Deck - Polymer Fiber Concrete                    | CY         | 6,317  | 1,764     | 11,144,212  | 100%                        | 6,317     | 1,764.14    |
|                                          | 05.05.00 | Joint Seals                                             | LF         | 426    | 1,685     | 716,850     | 100%                        | 426       | 1,684.72    |
| 06                                       | 06.00.00 | APPROACH WORK                                           |            |        |           | 767,773     |                             |           | 767,773     |
|                                          | 06.01.00 | Retaining Wall                                          | CY         | 217    | 2,293     | 498,589     | 100%                        | 217       | 2,292.85    |
|                                          | 06.02.00 | Approach Slab                                           | CY         | 197    | 1,365     | 269,184     | 100%                        | 197       | 1,364.88    |
| 07                                       | 07.00.00 | GENERAL BRIDGE WORK                                     |            |        |           | 1,728,360   |                             |           | 1,728,360   |
|                                          | 07.01.00 | Concrete Barrier                                        | LF         | 9,602  | 124       | 1,190,648   | 100%                        | 9,602     | 124.00      |
|                                          | 07.02.00 | Chain Link Railing                                      | LF         | 9,602  | 56        | 537,712     | 100%                        | 9,602     | 56.00       |
| 08                                       | 08.00.00 | ALLOWANCE FOR UNLISTED ITEMS                            |            |        |           | 4,802,952   |                             |           | 4,802,952   |
|                                          | 08.01.00 | Allowance for Unlisted Items                            | %          | 5%     |           | 4,802,952   |                             | 5%        | 4,802,952   |
| Total Direct Cost - SLR Bridge           |          |                                                         |            |        |           | 100,861,991 |                             |           | 100,861,991 |
| Total Direct Cost - Roads and SLR Bridge |          |                                                         |            |        |           | 401,878,413 |                             |           | 412,247,823 |

## Appendix E Comments from Metropolitan Water District and Design Team Responses

Program Name: **Sites Reservoir Project**  
**30% Design Cost Estimate - Reservoir Facilities**  
**May 22, 2024**  
**Sites Project Authority (SPA)**  
**Metropolitan Water District of Southern California (MWD)**

|     | Comment Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Author Response |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |        |            |                      | INT Backcheck |              |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------|------------|----------------------|---------------|--------------|
| No. | Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Respondent      | Response to Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Key Item | Concur | Non-Concur | For Information Only | Resolved?     | AECOM ACTION |
| 1   | A mark-up on subcontracted work was not shown. Metropolitan recommends subcontracted work be marked-up approximately 10%.                                                                                                                                                                                                                                                                                                                                                                                    | SPA             | Subcontractor values include subcontracted markups and General Contractor OH&P, see estimate TM Section 5.4. Example - A major subcontract on the dams is the curtain and consolidation grouting. We reviewed pricing from other projects for grouting subcontractors and included the subcontractor bid price in this estimate.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | x        |        |            | x                    |               | No Action    |
| 2   | Although the intent of this estimate was to reflect the present fair market value of the construction, escalation should be added to each contract package according to the schedule to show a realistic prediction of the estimated construction cost. Due to the magnitude of work, few bidders would be expected. Therefore, to some extent, it could be helpful to provide an assessment as to the conditions of a limited bidding pool (less than 3 bidders) in the next stage of estimate development. | SPA             | Escalations will be incorporated within the financial model updates anticipated to be completed by June 2025.<br><br>Unit rates, Indirects, and OH&P have been reviewed against similar projects and reflect negotiated CMGC arrangements.<br><br>See Section 4, Table 4-1, As an independent check, our subconsultant cost estimator (Integrated Engineering and Construction [IEC]) performed a separate estimate. This independent estimate pertained to the direct construction costs for the dams, Sites Diversion, and the I/O Facility, which account for about 75 percent of the total direct construction cost. The results of this independent check, summarized in Table 4-1 by project feature, show that AECOM's estimate is about 5 percent greater than IEC's independent estimate, which is an acceptable range. | X        | x      |            |                      |               | No Action    |
| 3   | Further data collection for excavation is recommended as these costs will likely vary based on soil types and groundwater encountered. These cost impacts are related to and would affect equipment, varied production rates based on difficulty of subsurface conditions encountered, number of workers, materials at rock borrow sites, and foundation construction.                                                                                                                                       | SPA             | The Authority will collect additional geotechnical data in the next phases of work. At this time our geotechnical team has made assumptions based on the existing data. The cost estimate will be updated as the design evolves, more geotechnical data is collected and the CMAR is brought on board. The contingencies in the current estimate in part are based on the current level of geotechnical data available.                                                                                                                                                                                                                                                                                                                                                                                                          |          | x      |            |                      |               | No Action    |
| 4   | Additional cost items that are not captured may include permitting, environmental mitigation measures, monitoring and inspections of onsite earthwork, continued geotechnical investigation, borrow sites material quality testing, and construction of each dams' excavation to competent ground variance.                                                                                                                                                                                                  | SPA             | See Estimate TM Section 6.5.<br><br>Permitting - Included in the 15/17% Non Contract Costs.<br><br>Environmental mitigation measures - Excluded from Non-Contract Costs. Environmental costs to be discussed with the Authority.<br><br>Monitoring and inspections of onsite earthwork, borrow sites material quality testing - QC is included in the General Condition/General Requirements. QA is included in the Non-Contract Costs.<br><br>Continued geotechnical investigation - Extensive investigations are planned and are included in the non-contract costs.                                                                                                                                                                                                                                                           | X        |        |            | x                    |               | No Action    |
| 5   | The estimate included a 15 percent construction contingency, which Metropolitan considers low at 30 percent level of design per AACE standards.                                                                                                                                                                                                                                                                                                                                                              | SPA             | Generally the estimate includes a 10% Design Contingency with some scope items carrying a 15% design contingency. All scopes of work carry a 15% construction contingency. As the design progresses from 30 to 60 and from 60 to 90/100 the design contingency will be reduced at each design iteration with additional geotechnical data. The construction contingency will remain for unforeseen events after award. For the purposes of the 30% estimate, it was agreed to carry the feasibility contingencies until a risk review workshop is held.<br><br>The Sites Authority will be conducting a risk workshop and the results from the workshop will better inform the team on the risk and assist in defining the contingencies to be carried in the estimate.                                                          | X        |        |            | x                    |               | No Action    |
| 6   | The unit rates/direct costs were within reasonable range at this stage. However, the values will need to be escalated as updates to the estimate are produced.                                                                                                                                                                                                                                                                                                                                               | SPA             | All forward escalation is captured within the project financial model and will be updated.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |        |            | x                    |               | No Action    |

|     | Comment Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Author Response |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |        |            |                      | INT Backcheck |              |
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| No. | Comment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Respondent      | Response to Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Key Item | Concur | Non-Concur | For Information Only | Resolved?     |              |
|     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |        |            |                      |               | AECOM ACTION |
| 7   | With the design level of supporting technical documents, the 15% construction contingency is relatively low and Metropolitan has recommended increasing this contingency to 20% in order to cover major project uncertainties at this time. Metropolitan's recommendation and experience with large projects of this size is that the project's cost can increase dramatically over time; as such, we recommend that an overly conservative Class 3 estimate be produced in order to mitigate stakeholder concerns at an early timeframe. | SPA             | Reference item no. 5 Response to Comments.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |        |            | x                    |               | No Action    |
| 8   | The non-contract costs in this estimate are considered to be Owner's costs and requires further investigation as there can be significant variance from applying a simple mark-up. Metropolitan normally applies a minimum 30% markup for non-contract costs for design, construction management, and contract administration. However, for this type of project additional markup may be required to account for property issues, permitting issues, and environmental mitigation.                                                       | SPA             | Sites includes an additional \$612.4M - 579.4M for Mitigation and 33M for Recreational Facilities in 2021 dollars and when added to the Non-Contract Costs included in the HR and HC estimates, this amounts to 29%.<br><br>The Authority is preparing updated estimates for non-contract costs, lands (real estate), and mitigation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          | x      |            |                      |               | No Action    |
| 9   | Potential items that may benefit from VE considerations:<br><br>Pre-purchasing materials of significant cost and long lead times, such as mechanical equipment, or steel liner, could benefit the project. Continued subsurface investigations for soil conditions and groundwater levels will benefit the project in enabling more accurate assumptions in cost and limiting risk. Groundwater contaminants, if any, need to be identified as well.                                                                                      | SPA             | These costs will be considered during next design phase and with the CMAR.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          | x      |            |                      |               | No Action    |
| 10  | Please correct the length of each tunnel. (numbers should be swapped as follows) Table 1-1 Inlet/Outlet Facilities Conveyance Tunnel (18.5 feet/3,157 feet), Sites Diversion Tunnel (14.5 feet/1,318 feet)                                                                                                                                                                                                                                                                                                                                | SPA             | Agreed and corrected.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          | x      |            |                      |               | Corrected    |
| 11  | ".....for the rock and core borrow areas, approximately 10 percent of the data for preliminary design could be collected."<br><br>The estimated quantity in the borrow areas was based on the limited information.<br>What were the assumptions while developing costs for import, versus reuse of onsite materials, and onsite earthen material separation and processing?                                                                                                                                                               | SPA             | A Material Handling Development Plan was prepared based on available data - assumptions are discussed within this document.<br><br>Zone 2 - Filters, Zone 3 - Drains are to be imported as we do not believe the onsite materials meet the durability (ASTM C33) requirements. Zone 8 - Coarse Transition would require washing and we do not have onsite water sources to support washing. Zone 4A&B Transitions are produced on site because the gradation requires only screening without washing. Zones 4A&B are not subject to the durability requirements of the filters and drains. Zones 5 Sandstone, and Zone 6 Sand/Siltstone are produced on site. The higher quality sandstone will be placed on the upstream and downstream shells. Zone 6 the Sand/Siltstone will be placed in the downstream center of the dam. Zone 1 - Core areas have been identified in the valley which are likely to contain clay materials suitable for the core. There is also a potential for dispersive soils which may require hauling materials outside the valley at a greater distance and cost to the project as a whole; this is the subject of the next phase of design. Zone 9 Random will be siltstone/mudstone from inside the valley. |          |        |            | x                    |               | No Action    |
| 12  | ".....because there has been no access to assess demolition requirements within the reservoir footprint, we have used aerial photographs to identify demolition activities and develop estimated costs."<br><br>To what extent have the demolition sites had been visited? What were the assumptions while developing costs?<br>Aerial photos were not included and a description of what was assumed for demolition was not included.                                                                                                    | SPA             | Access restrictions limited site visits/validation. As part of the 30% design, a Demolition and Abandonment Plan was developed based on aerial imagery. This plan listed structures, septic systems, fencing, paving, water wells, overhead utilities, etc. Unit prices were developed against the quantities.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          |        |            | x                    |               | No Action    |
| 13  | "No Phase 1 assessment has been completed to identify the potential presence of hazardous materials/wastes."<br><br>No cost item shown. Is this part of the allowance?                                                                                                                                                                                                                                                                                                                                                                    | SPA             | Allowances are captured within non-contract cost estimate.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |        |            | x                    |               | No Action    |

|     | Comment Description                                                                                                                                                                                                                                                                                                                                 | Author Response |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |        |            |                      | INT Backcheck |                    |
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| No. | Comment                                                                                                                                                                                                                                                                                                                                             | Respondent      | Response to Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Key Item | Concur | Non-Concur | For Information Only | Resolved?     |                    |
|     |                                                                                                                                                                                                                                                                                                                                                     |                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |        |            |                      |               | AECOM ACTION       |
| 14  | Was the cost of engineer's field office and soil lab shared or embedded in each contract package? Would it be better to have a separate work contract for constructing field office campus in the                                                                                                                                                   | SPA             | The field office costs are imbedded in each package in either field overhead costs or the non-contract costs as a percentage.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |        |            | x                    |               | No Action          |
| 15  | "Erosion and Sediment Control"<br>What is included in the item? Any rock berms, filter fabrics, straw wattles.                                                                                                                                                                                                                                      | SPA             | This account includes an allowance for permits, road cleaning, concrete washouts, erosion logs/silt fence, construction fence, check dams, track out pads, maintenance of erosion control, and removal of erosion control.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |        |            | x                    |               | No Action          |
| 16  | "Mass Concrete at GG Core Excavation"<br>Please indicate the stations required to have mass concrete.                                                                                                                                                                                                                                               | SPA             | Approximately 11+00 to 13+50 - See profile on drawing STS-1615-C-3001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |        |            | x                    |               | No Action          |
| 17  | "Drill and Shoot Foundation"<br>Was the price quoted? Potential cost increase may occur due to fewer vendors and less competition to complete this relatively specialized work.                                                                                                                                                                     | SPA             | Our estimate for drill and blast is based on the work being self preformed by the contractor. Additionally we utilized two subconsultants, IEC and MP Associates, to prepare the drill/shoot and processing estimate.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | x        |        |            | x                    |               | No Action          |
| 18  | "Foundation Excavation - Dewatering Allowance" - 18 months \$80,000/ month<br>What was assumption for this cost (i.e., number of pumps, temporary piping system, discharge location, any construction in the "wet")?                                                                                                                                | SPA             | Dewatering was a general allowance covering equip, labor, and operation assuming consumption of up to 500 gallons of fuel per day.<br><br>No construction in the wet.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |        |            | x                    |               | No Action          |
| 19  | "Drill and Blast" 5,354,400 BCY<br>Was the price quoted? Potential cost increase may occur due to fewer vendors and less competition to complete this relatively specialized work.                                                                                                                                                                  | SPA             | Reference item no. 17 Response to Comments.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |        |            | x                    |               | No Action          |
| 20  | Purchase processed material from quarry -Filter<br>Why would the contractor need to purchase 501,636 ton (1.7 factor)? Will this work be in a separate contract?<br>Verification is required to determine volume of import versus volume of onsite borrow material for reuse, and confirmation if material sources will meet specifications.        | SPA             | Why would the contractor need to purchase 501,636 ton (1.7 factor)? 1.7 factor is used to convert CY to Tons. Tons are how aggregates are sold. Per the Caterpillar manual, 1CY Compacted Sand and Gravels weigh 3200 to 3700 lbs./cy or a factor ranging from 1.6 to 1.85 tons/cy.<br><br>Will this work be in a separate contract? No, the estimate assumes the contractor will purchase the materials from a quarry in the area. We visited several large, established quarries which are 60 to 80 Miles from the site. See HR24.08 - Aggregate Summary TM.<br><br>Verification is required to determine volume of import versus volume of onsite borrow material for reuse, and confirmation if material sources will meet specifications. Filter and Drain are assumed to be offsite borrow as the onsite materials do not meet the durability requirements for filters and drains. As mentioned in the PowerPoint -30 pct Cost Presentation_Hard Cost_HR_Final_20240730, Slide 30, the "typical" materials produced at the quarries are close but the gradations are slightly different so the estimate includes additional costs for gradation adjustments. |          |        |            |                      |               | No Action          |
| 21  | Purchase processed material from quarry - Zone 3 Drain<br>Why would the contractor need to purchase 362,712 ton (1.7 factor)? Will this work be in a separate contract?<br>Verification is required to determine volume of import versus volume of onsite borrow material for reuse, and confirmation if material sources will meet specifications. | SPA             | Reference item no. 20 Response to Comments.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |        |            |                      |               | No Action          |
| 22  | Haul material from quarry to site stockpile/fill location, 75 mile haul<br>Verification is required to determine volume of import versus volume of onsite borrow material for reuse, and confirmation if material sources will meet specifications.                                                                                                 | SPA             | Reference item no. 20 Response to Comments.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |        |            |                      |               | No Action          |
| 23  | "Excavation - Upstream Portal"<br>Unit price of rock excavation was lower than that of common excavation, please clarify assumptions for lower cost of rock excavation. Rock excavation typically has a higher cost than common excavation.                                                                                                         | SPA             | Item 02.03.02 description will be revised to Drill and Shoot Rock Excavation. This line item is for blasting the rock prior to excavating the rock. When 02.03.02 is added to 02.03.30 the rock excavation is approximately double the common excavation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | x        | x      |            |                      |               | Revise description |
| 24  | 10' Knife Gate Valves" (2 ea)<br>Was the material price of the gate quoted? Was it a current value? Any storage cost?                                                                                                                                                                                                                               | SPA             | Yes quoted specifically for this project in 2024 dollars. No storage cost.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          |        |            | x                    |               | No Action          |

|     | Comment Description                                                                                                                                                                                                                                                                 | Author Response |                                                                                                                                                                                                                                                                                                                                                   |          |        |            |                      | INT Backcheck |                       |
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| No. | Comment                                                                                                                                                                                                                                                                             | Respondent      | Response to Comments                                                                                                                                                                                                                                                                                                                              | Key Item | Concur | Non-Concur | For Information Only | Resolved?     | AECOM ACTION          |
| 25  | "Trash Rack" (47 ton)<br>What were trash racks made of?                                                                                                                                                                                                                             | SPA             | Epoxy Coated Steel.                                                                                                                                                                                                                                                                                                                               |          |        |            | x                    |               | No Action             |
| 26  | "Pre-Excavation Drilling and Grouting"<br>Was 1 sack cement per foot an assumption?                                                                                                                                                                                                 | SPA             | Yes - 1 sack per foot was the assumption.                                                                                                                                                                                                                                                                                                         |          |        |            | x                    |               | No Action             |
| 27  | "Excavation"<br>Excavation volume seemed low, please verify. Suggest separate mobilization from excavation cost.                                                                                                                                                                    | SPA             | Diversion excavation = $((20.5/2)^2 \times 3.14 / 2 + 20.5/2 \times 20.5 \times 1318) / 27 = 18,313$ BCY as per cost estimate.<br>Mobilization will be considered in the revised estimate.                                                                                                                                                        | x        |        |            | x                    |               | Add Mobilization Cost |
| 28  | "Excavation Support - Steel Sets"<br>Unit price seemed low, please verify.                                                                                                                                                                                                          | SPA             | ~50 LF per Set x 25 lbs. / If = 1250 lbs. or 0.625 Tons x \$5000/Ton = \$3,125/Set. Will revise from \$1,500 to \$3,125.                                                                                                                                                                                                                          | x        | x      |            |                      |               | Will revise as noted  |
| 29  | "Steel Pipe"<br>Was the steel pipe fabrication price quoted? In any storage cost included?                                                                                                                                                                                          | SPA             | We received two quotes. One for onsite fabrication, the other for offsite fabrication. The estimate is based upon the average of the two.<br>No storage costs were included.                                                                                                                                                                      |          |        |            | x                    |               | No Action             |
| 30  | "LDCC Fill"<br>Unit price seemed high. Verify and state basis of cost assumptions.                                                                                                                                                                                                  | SPA             | Reference project average Bid was \$715/CY / 1.45 to back out indirect and OH&P = \$493/CY                                                                                                                                                                                                                                                        |          |        |            | x                    |               | No Action             |
| 31  | "Allowance for Unlisted Items" (15%)<br>Please list the potential items included in the allowance.                                                                                                                                                                                  | SPA             | This allowance is intended to cover the following - No Geotechnical Investigation has been performed, Encountering loose rock, Additional rock bolts and or steel sets, Unexpected water and additional pre-drilling and grouting, Probing, Overbreak and Over Excavation, Shotcrete Volume, Delays and Standby Time, Potential Drilling Blasting |          |        |            | x                    |               | No Action             |
| 32  | Steel Pipe Lining<br>Missing cost item                                                                                                                                                                                                                                              | SPA             | Pipe lining was included in the piping quotes. A cost item for welds and touchup will be added.                                                                                                                                                                                                                                                   | x        | x      |            |                      |               | Add Lining            |
| 33  | "Excavation - Approach Channel"<br>Unit price of rock excavation was lower than that of common excavation, please clarify assumptions for lower cost of rock excavation. Rock excavation typically has a higher cost than common excavation.                                        | SPA             | Reference item no. 23 Response to Comments.                                                                                                                                                                                                                                                                                                       |          | x      |            |                      |               | No Action             |
| 34  | "Excavation - Upstream Portal Including the Sloping Intake Excavation"<br>Unit price of rock excavation was lower than that of common excavation, please clarify assumptions for lower cost of rock excavation. Rock excavation typically has a higher cost than common excavation. | SPA             | Reference item no. 23 Response to Comments.                                                                                                                                                                                                                                                                                                       |          |        |            |                      |               | No Action             |
| 35  | "Excavation - Structural Excavation"<br>Unit price of rock excavation was lower than that of common excavation, please clarify assumptions for lower cost of rock excavation. Rock excavation typically has a higher cost than common excavation.                                   | SPA             | Reference item no. 23 Response to Comments.                                                                                                                                                                                                                                                                                                       |          |        |            |                      |               | No Action             |
| 36  | "Pre-Excavation Drilling and Grouting"<br>Was 1 sack cement per foot an assumption?                                                                                                                                                                                                 | SPA             | Reference item no. 23 Response to Comments.                                                                                                                                                                                                                                                                                                       |          |        |            |                      |               | No Action             |
| 37  | "Excavation"<br>Excavation volume seemed low, please verify. Suggest separate mobilization from excavation cost                                                                                                                                                                     | SPA             | Excavation = $((24.5/2)^2 \times 3.14 / 2 + (24.5/2 \times 24.5 \times 3157)) / 27 = 62,654$ BCY as per cost estimate.<br>Mobilization will be considered in the revised estimate.                                                                                                                                                                | x        | x      |            |                      |               | Add Mobilization Cost |
| 38  | "Excavation Support - Steel Sets"<br>Unit price seemed low, please verify.                                                                                                                                                                                                          | SPA             | ~60 LF per Set x 35 lbs. / If = 2,100 lbs. or 1.05 Tons x \$5000/Ton = \$5,250/Set. Will revise from \$1,500 to \$5,250.                                                                                                                                                                                                                          | x        | x      |            |                      |               | Will revise as noted  |
| 39  | "Steel Pipe"<br>Was the steel pipe fabrication price quoted? Is any storage cost included?                                                                                                                                                                                          | SPA             | Reference item no. 29 Response to Comments.                                                                                                                                                                                                                                                                                                       |          |        |            | x                    |               | No Action             |
| 40  | "LDCC Fill"<br>Unit price seemed high. Verify and state basis of cost assumptions.                                                                                                                                                                                                  | SPA             | Reference item no. 30 Response to Comments.                                                                                                                                                                                                                                                                                                       |          |        |            | x                    |               | No Action             |

|     | Comment Description                                                                                                                                                                                            | Author Response |                                                                                                                                                                                                                                                                                                                                                                          |          |        |            |                      | INT Backcheck |                    |
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| No. | Comment                                                                                                                                                                                                        | Respondent      | Response to Comments                                                                                                                                                                                                                                                                                                                                                     | Key Item | Concur | Non-Concur | For Information Only | Resolved?     |                    |
|     |                                                                                                                                                                                                                |                 |                                                                                                                                                                                                                                                                                                                                                                          |          |        |            |                      |               | AECOM ACTION       |
| 41  | "Allowance for Unlisted Items" (15%)<br>Please list the potential items included in the allowance                                                                                                              | SPA             | Reference item no. 31 Response to Comments.                                                                                                                                                                                                                                                                                                                              |          |        |            | x                    |               | No Action          |
| 42  | Steel Pipe Lining<br>Missing cost item                                                                                                                                                                         | SPA             | Reference item no. 32 Response to Comments.                                                                                                                                                                                                                                                                                                                              |          | x      |            |                      |               | No Action          |
| 43  | Retaining Wall - Tie-Back Wall<br>What is included in the cost item? What were the assumptions?                                                                                                                | SPA             | Roadway retaining walls are not fully defined or designed at this time. At 30% this item is intended to cover a required tieback retaining wall as shown on drawing STS-1785-R-1103. This is an allowance to cover the tieback wall with contingency for updates during design progression.                                                                              |          |        |            | x                    |               | No Action          |
| 44  | Developing access road to approach bridge footings<br>Any costs is developed?                                                                                                                                  | SPA             | 01.05.00 is intended to cover access to the abutments as well as foundations.                                                                                                                                                                                                                                                                                            |          |        |            | x                    |               | No Action          |
| 45  | Structure Excavation (Bridge)<br>Was there any dewatering? Did the cost include disposal or stockpiling?                                                                                                       | SPA             | The excavation cost does not include dewatering.<br><br>The cost does not include offsite disposal as materials would be stockpiled in the reservoir.                                                                                                                                                                                                                    |          |        |            | x                    |               | No Action          |
| 46  | Structure Backfill (Bridge)<br>What was backfill materials? The price seemed low. Please re-visit the item.                                                                                                    | SPA             | Estimate assumes excavated materials will be used a backfill.                                                                                                                                                                                                                                                                                                            |          |        |            | x                    |               | No Action          |
| 47  | Drill 24" CIDH Piles<br>Was there any dewatering? Did the cost include disposal or stockpiling? Was the estimated pile length conservative?                                                                    | SPA             | The CIDH cost does not include dewatering.<br><br>The cost does not include offsite disposal as material would be stockpiled in the reservoir.<br><br>Pile length is based on limited geotechnical data, assumptions, geotechnical analyses, and consideration of the design loads. A 15% construction contingency is assumed to accommodate changes in site conditions. |          |        |            | x                    |               | No Action          |
| 48  | Driven Piles - Class 200 - 16"<br>Does the cost include driving test piles? What was the basis of assumption for the estimated pile length? State assumptions to demonstrate reasonable or conservative costs. | SPA             | The cost does not include test piles<br><br>Pile length is based on limited geotechnical data, assumptions, geotechnical analyses, and consideration of the design loads.                                                                                                                                                                                                |          |        |            | x                    |               | No Action          |
| 49  | Driven Piles - Class 90 - 16"<br>Does the cost include driving test piles? What was the basis of assumption for the estimated pile length? State assumptions to demonstrate reasonable or conservative costs.  | SPA             | The cost does not include test piles<br><br>Pile length is based on limited geotechnical data, assumptions, geotechnical analyses, and consideration of the design loads.                                                                                                                                                                                                |          |        |            | x                    |               | No Action          |
| 50  | Bridge Columns<br>What portion of columns were included? Quantities seemed high, and unit price seemed low, please verify.                                                                                     | SPA             | The quantities cover the Bridge Columns, Abutments Walls, Caps, and Bridge Diaphragms. The description will be revised. There are indirects and OH&P on top of the direct cost unit price. The fully loaded rate increases from \$1,875 to \$2,770/CY. The CalTrans Rate at the time the estimate was prepared was \$2,275/CY compared to \$2,770.                       | x        |        |            | x                    |               | Revise description |
| 51  | Purchase Girders - (130-140')<br>Was the price quoted?                                                                                                                                                         | SPA             | The girders were not quoted. The purchase price is based on Caltrans cost data.                                                                                                                                                                                                                                                                                          |          |        |            | x                    |               | No Action          |
| 52  | Purchase Girders - (80-90')<br>Was the price quoted?                                                                                                                                                           | SPA             | The girders were not quoted. The purchase price is based on CalTrans cost data.                                                                                                                                                                                                                                                                                          |          |        |            | x                    |               | No Action          |
| 53  | Bridge Columns<br>What portion of columns were included?                                                                                                                                                       | SPA             | The concrete item is intended to cover the deck. The description will be revised to Concrete - Deck                                                                                                                                                                                                                                                                      | x        |        |            | x                    |               | Revise description |
| 54  | Sites Lodoga Road Box Girder Bridge (Sta 288+54 to Sta. 290+11)<br>Where is the cost?                                                                                                                          | SPA             | The cost of this bridge is included in 27.4 - Construction Roads - Agg Route, Quarry 2, and Hook Ramp, Item - 10.01.00. The cost is included here as there would not be a need for a bridge if the construction access road was not required.                                                                                                                            |          |        |            | x                    |               | No Action          |