Sites Project

Joint Authority Board & Reservoir Committee

Workshop:

Contracting and Procurement Strategy

January 18, 2018

TOPICS

1. Overview & Background 2. The Target 3. Strategy 4. Requirements and Components 5. Suggested Request for Qualifications 6. Discussions



Overview

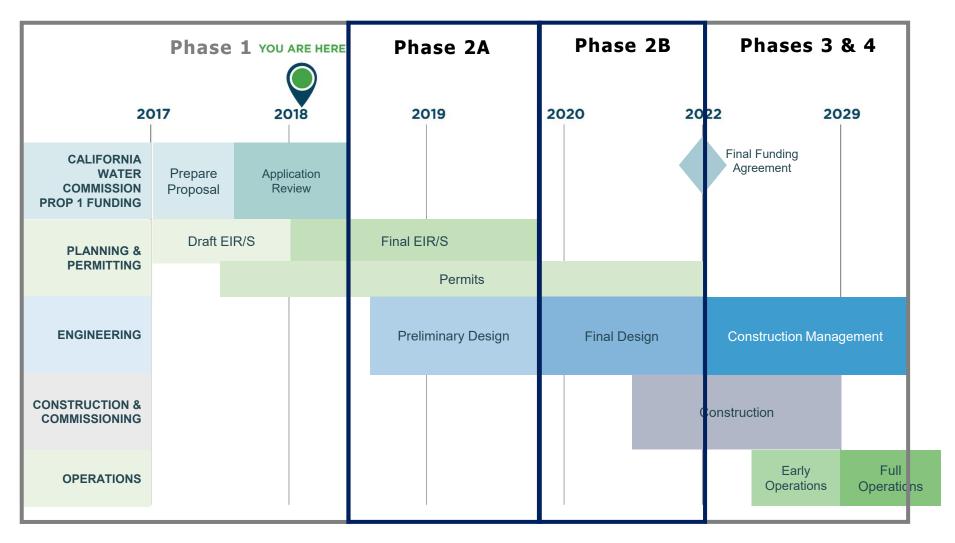
Developing a Phase 2 contracting/technical support approach

✓ Allows use of alternative delivery methods in Phase 3 & 4

- Requires flexible task order service contracts to adapt to the variable needs of the Project
- Addresses administrative needs
- Provides "strawman" work products for discussion and recommendations
 - Scope work items
 - Organization
 - o Schedule
 - Responsibility Matrix
 - o Conceptual RFQ

Implementation Strategy:

Draft Phase-level Schedule





2018 Jan 19 Working Draft, Subject to Change

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Phase 1 Completion Schedule

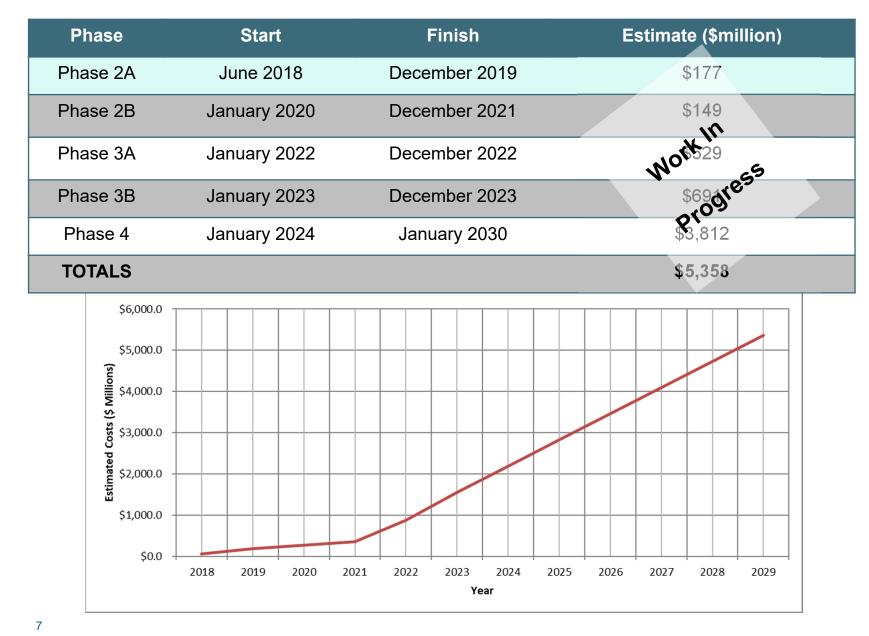
(Working Draft)

								0: Phase 1 ninistrative			Phase n. Budg			
CA WATER COMMISSION PROP 1 FUNDING	CWC S Posts Pu Benefit R	blic Com	Appeals Pro amission Fi	ocess Ends. nalizes PBR		~5/25: Draft RO 7/26: MCE Early Fund Agreem	D & ling	Rece	Ear eived by A	y Funds uthority		Participati hitoring	on	
FEDERAL WIIN ACT (§4007)			Compile Application (w/ Feasibility Study & Letter from Governor)				Compile Dept. of Interior Funds R Application (w/ Feasibility Study & (for pre-const					nds Rece construct	ion) A	Q3 2019 Request ppropriation per §4010(b)(6)
ENVIRONMENTAL PLANNING & PERMITTING	1/15: Close Public Comments (154 days)	Develop Coc SWRCB Appi	operative O roach, CDF	perations Pi W Permit Pr	rinciple: inciples	s, Biologi	al Ass:	essment Con	tents,		er Right i onsultati	to Comm Applicatio		
ENGINEERING & REAL ESTATE	Work	Phase	Risk Register e 2 Work P & Target G		W	Phase 2 ork Plan		Pha Work	ise 2 Plan			arly Studi optimizati		
PHASE 1 REBALANCE PROCESS	1 st Iteration		-	Rebalance Iteration		3 rd I		n Phase 2				Phase 2 Cash Call		
FINANCING PHASE 2		ard Municipal ncial Advisor		I Phase 2 ance Plan		Propose Fi	d Phas ance I		Support I with f	1embers nancing				
PHASE 2 PROCUREMENTS	Procure- ment Strategy	Ap Releas	prove e RFQ	Proposals Due		Board Ap Itant Sele		B Approve	oard de		& negotia Board & R	ted .es. Comm ask Order		
	2017 Dec 3	Jan 31	Feb 28	- Apr 30	τς άριλι	Max 21		Jul 31			Ort 31	- Nov 30	Dec 31	

Phase 2 Requirements

- Administrative Items
 - ✓ Budget, Costs, Schedule
 - $\checkmark~$ Health and Safety
- Engineering Design
 - ✓ Advance ~10% Concept to ~30% Preliminary level
 - ✓ Develop specialty details (e.g. geotechnical)
- Environmental
 - ✓ Final EIR/EIS
 - ✓ Permitting, Water Rights
- Real Estate
 - ✓ Temporary Right of Entry
 - ✓ Land Acquisition
- Communications, Outreach, Facilitation

Phased Implementation Strategy

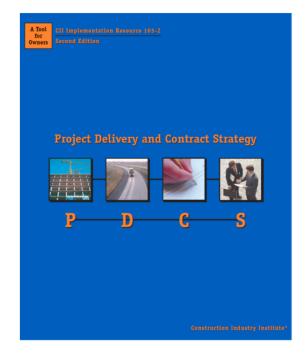


What's the end point target



Owner's Tool for Project Delivery and Contract Strategy Selection

- **Purpose:** "to facilitate maximum achievement of the owner's project objectives
- **Process:** 12 construction delivery methods evaluated w/ default compensation approaches provided

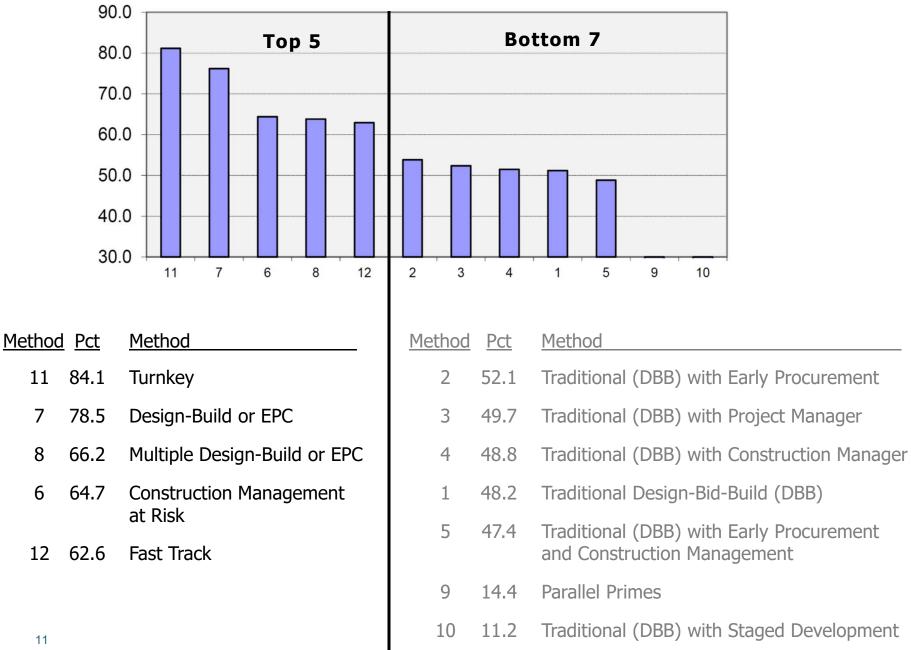


Additional Considerations (outside of the Construction Industry Institute's process):

- 1. Regulatory/Permits
- 2. Real Estate Acquisition
- 3. Political/Administration
- 4. Governance and ownership (today vs. start of construction)
- 5. Construction bonding capacity

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	Factor #	Selection Factor Action Statement	Dec 21 Occurrence	Rank Top 4-6	Score 100	Relative Weighting
Cost	1	Control cost growth	11	1	100	29%
Related	2	Ensure lowest cost	7	6	20	6%
Factors	3	Delay or minimize expenditure rate	3			
	4	Facilitate early cost estimates	9	4	50	15%
	5	Reduce risks or transfer risks to contractor(s)	5			
Schedule	6	Control time growth	10	2	80	24%
Related Factors	7	Ensure shortest schedule	8	5	30	9%
Tactors	8	Promote early procurement	1			
Other	9	Ease change incorporation	9	3	60	18%
Factors	10	Capitalize on expected low levels of changes				
	11	Protect confidentiality (Not applicable)				
	12	Capitalize on familiar project conditions				
	13	Maximize Owner's controlling role	1			
	14	Minimize Owner's controlling role				
	15	Maximize Owner's involvement				
	16	Minimize Owner's involvement				
	17	Capitalize on well-defined scope	1			
	18	Efficiently utilize poorly defined scope	1			
	19	Minimize number of contracted parties				
	20	Efficiently coordinate project complexity				
		or innovation	1			



				Default Comp	ensation App	roach		
PDCS #	Rating	PDCS	Designer	Constructor	CM (Agent)	PM (Agent)	Contractor	Supplier
11	84.1	Turnkey					Competitive Lump Sum	
7	78.5	Design-Build or EPC					Competitive Lump Sum	
8	66.2	Multiple Design- Build or EPC					Competitive Lump Sum	
6	64.7	CM @ Risk	Firm Price	GMP				
12	62.6	Fast Track	Cost + Fee	Cost + Fee				
2	52.1	Traditional (DBB) with Early Procurement	Cost + Fee	Competitive Lump Sum				Competitive Lump Sum
3	49.7	Traditional (DBB) with Project Manager	Firm Price	Negotiated Lump Sum		Negotiated Lump Sum		
4	48.8	Traditional (DBB) with Construction Manager	Negotiated Lump Sum	Competitive Lump Sum	Negotiated Lump Sum			
1	48.2	Traditional Design-Bid- Build (DBB)	Firm Price	Competitive Lump Sum				
5	47.4	Traditional (DBB) with Early Procurement and CM	Cost + Fee	Competitive Lump Sum	Cost + Fee			Competitive Lump Sum
9	14.4	Parallel Primes	Cost + Fee	Competitive Lump Sum				Competitive Lump Sum
10	11.2	Traditional (DBB) with Staged Development	Competitive Lump Sum	Competitive Lump Sum		Cost + Fee		Competitive Lump Sum

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Survey Results

- ✓ Reservoir Committee initial prioritization using the Construction Industry Institute – Owner's Tool
- ✓ Evaluated 12 common contracting methods- delivery options for the Project
- ✓ Other critical factors permitting, real estate, governance/ownership, financing
- ✓ Ranking of Concerns
- ✓ Recommendations

The Strategy



Project Delivery Strategy – Key Concepts

<u>General/Common to all phases</u>:

- Proposition 1 milestones result in a schedule-driven process
 - ✓ All permits by Jan 1, 2022 (end of Phase 2)
 - ✓ Deliver Public Benefits by 2030
 - ✓ Owner-procure pumps/turbines
- Early price certainty is an important consideration
- Equitable risk allocation (assign risks to the party in the best position to manage it)
- Authority does not plan to have employees until end of Phase 2 (owner's agent/representative)
- Flexibility to adjust as project evolves (MSA or IDIQ)
- Need bench strength & a succession plan
- Need adequate checks and balances plus span of control
- Utilize a competitive process & best value
- Ability to off-ramp should performance become an issue

Utilize Alternative Deliery with ability to off-ramp to Traditional Methods

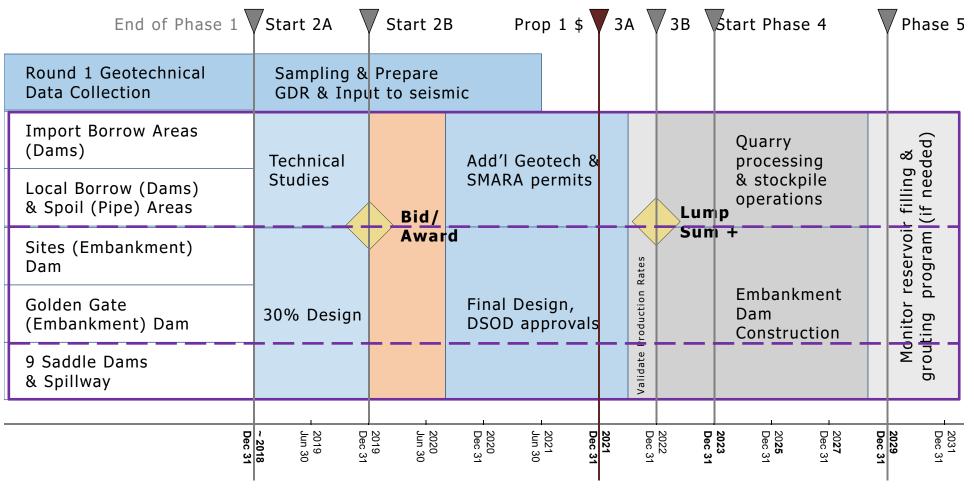
Example: Contract Packaging for Dams

Options: (Decision needed at end of Phase 2A)

A Turnkey (1 Package)

B Separate borrow sites contract from Dams (2 to 3 contracts)

C Main Dams with borrow sites & Saddle Dams (2 contracts)



Timeline is not linear

Requirements and components



Phase 2 Requirements

- Administrative Matters
 - ✓ Budget, Costs, Schedule
 - ✓ Health and Safety
- Engineering Design
 - ✓ Advance 10% Concept to 30% Preliminary level
 - ✓ Develop specialty details (e.g. geotechnical)
- Environmental
 - ✓ Final EIR/EIS
 - ✓ Permitting, Water Rights
- Real Estate
 - ✓ Temporary Right of Entry
 - ✓ Land Acquisition
- Communications, Outreach, Facilitation

Phase 2 Administrative Requirements

Development and Maintenance of:

- Integrated Project Schedule
- Project Budget
- Cost Tracking
- Contract Administration
- Document Control
- Data Management
- Mapping/GIS
- Executive Assistance
- IT Support
- Health and Safety

Phase 2 Engineering Requirements

Obtain additional field data (geotechnical, topographic survey)

Develop Preliminary (30%) Designs for:

- Main and Saddle Dams
- Sites Pumping Facilities
- Holthouse and TTR Reservoirs
- Dam Inlet and Outlet Structures
- Delevan Pipeline
- Emergency Outlet
- Delevan Diversion and Outlet

Support Environmental Compliance

Phase 2 Environmental Requirements

Obtain additional field data (wetlands, cultural, aquatics)

Develop Final EIR/EIS & pre-construction surveys

- Respond to Comments
- Prepare Final EIR/EIS
- Support Findings, Notice of Determination
- Prepare Permit Applications
- Develop Permit Acquisition Plans
- Support development of permit conditions
- Initiate Adaptive Management Planning and Implementation
- Prepare Applications
- Support Permit negotiations

Phase 2 Real Estate Requirements

Obtain temporary rights of entry for additional field data collection (geotech, wetlands, cultural)

- ✓ Develop land ownership maps
- ✓ Integrate with Design and Environmental teams
- ✓ Contact and negotiate ROE agreements

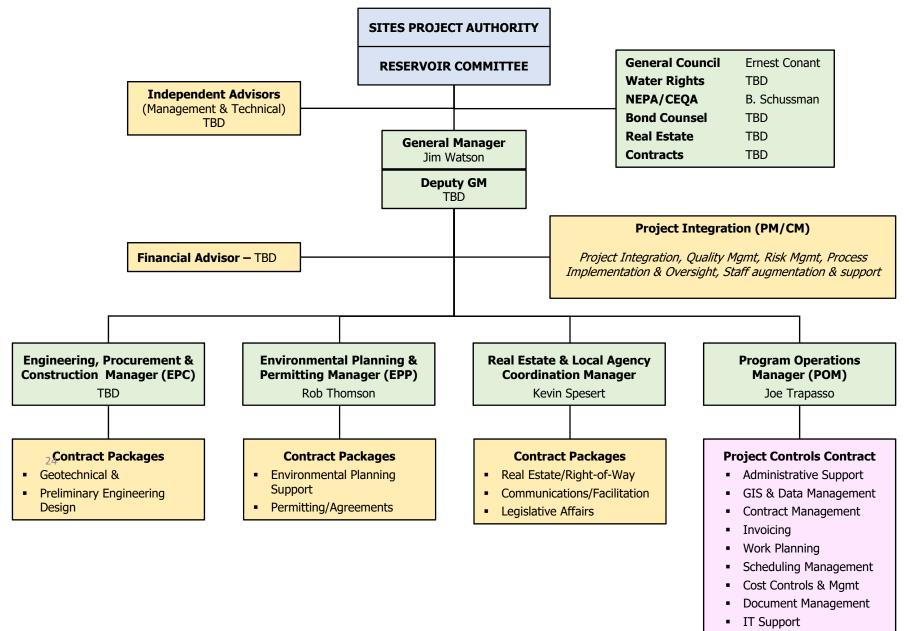
Prepare for Permanent Land Acquisition Process

- ✓ Update ownership and constrain maps
- ✓ Integrate with Design and Environmental teams
- ✓ Contact and negotiate land agreements

Phase 2 Communications Requirements

- Establish/maintain communications with
 - ✓ Impacted landowners
 - \checkmark local and regional stakeholders
 - ✓ statewide and national stakeholders
- Facilitate communications with
 - ✓ Elected officials
 - ✓ Regulatory agencies
 - ✓ External stakeholders
 - ✓ Internal participants
 - \checkmark News and media

Phase 2 Organization



Health & Safety Mgmt

Phase 2 Responsibility Matrix – Admin and Integration

Project Controls	Project Integration
Project Operations Manager	Project Operations Manager
Scheduling, Budget, Cost	Integrate technical activities
Tracking, Contract	and Products.
Administration, Document	Quality Management, Risk
Control, Data Management,	Management, Health &
Mapping/GIS, Executive	Safety, Staff support to Owner
Assistance, IT Support	Representatives

Phase 2 Responsibility Matrix – Engineering Design

Geotechnical Engineering	Preliminary Engineering Design
Engineering, Procurement & Construction Manager	Engineering, Procurement & Construction Manager
Investigate geotechnical conditions at key facilities location. Prepare reports	Prepare - refine designs to support Phase 2 and 3 activities

Phase 2 Responsibility Matrix – Environmental

Environmental	Permitting and
Planning	Agreements
Environmental Planning &	Environmental Planning &
Permitting Manager	Permitting Manager
Prepare Final EIR/EIS, Findings, MMRP, Notices	Prepare permitting plans and applications – draft agreements. Support permit acquisition

Phase 2 Responsibility Matrix – Real Estate & Outreach

	Real Estate
	Real Estate & Outreach Manager
communications. Facilitate a	Obtain temporary access agreements. Support permanent real estate deals

Phase 2 Responsibility Matrix

	Project Controls	Project Management Integration	Geotechnical Engineering	Preliminary Engineering Design	Environmental Planning	Permitting and Agreements	Communications and Facilitation	Real Estate	Legal	Authority Staff
Responsible Staff	Project Operations Manager	Project Operations Manager	Engineering, Procurement & Construction Manager	Engineering, Procurement & Construction Manager	Environmental Planning & Permitting Manager	Environmental Planning & Permitting Manager	Real Estate & Outreach Manager	Real Estate & Outreach Manager	Authority Board	
	Scheduling, Budget, Cost Tracking, Contract Administration, Document Control, Data Management, Mapping/GIS, Executive Assistance, IT Support	Integrate other technical needs. Quality Management, Risk Management, Health & Safety, Staff support to Owner Representatives	Investigate geotechnical conditions at key facilities location.	Prepare - refine designs to support Phase 2 and 3 activities	Prepare Final EIR/EIS, Findings, Mitigation, Monitoring, and Reporting Program, Notices	Prepare permitting plans and applications – draft agreements. Support permit acquisition	Support all external communications Facilitate internal decision-making	Obtain temporary access agreements Support permanent real estate deals Legislative Affairs	Authority Counsel. Special counsel for environmenta I bond, real estate, infrastructure contracts, and other counsel	
CWC Funding	V								V	1
WIIN Funding	V								V	1
EIR/EIS	V	V		V	1	2	V	V	V	V
Permitting	V	V		V	2	1	V	V	V	V
Engineering Design	V	V	2	1	V	V	V	V	V	V
Real Estate	V	V	V				V	1	V	V
Rebalancing- Governance	V	V					2		V	0
Financing	V	V							V	1

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v = involved in activity but not lead or secondary role

1 = prime responsibility of activity 2 = directly involved in activity but not prime responsibility

Draft Request for Qualifications



Phase 2 Consultant Packages

(Proposed)

End of Phase 1	Start 2A	Start 2B	Prop 1 \$	ЗА	ЗВ	Start Phase 4	Phase 5
Project Integration	PM & Staff Support	Program Mgmt	+ Owner's (if off-ramp Traditional)			+ Constr. Mgmt & closeout	
Project Controls & Contract Admin.		ncials, Schedu :, & Support	ıle,			t during ion & closeout	
Communications		akeholder gagement			arly str.	+ Constr. Outreach	
Reservoir Operations Support	•	;) Agreements, ssment, & Rep	-	acts			
NEPA/CEQA, ESA/CESA, & Water Rights		Final EIR/S		ROD NOD) BiOps		Adaptive Managem
Environmental Permit Acquisitions	Consultation Permit applie		Pre-Constr. S	urveys		Compliance Monitoring	ent (By Authority)
Real Estate & Rights of Way Acquisitions	Temporary of Entry	Rights	Prep to Acquire	Acqui	sitions	Land Management (By Authority)	
Engineering Design Manager (Prelim Dgn+)		SCADA/Comm ds, Survey Co	•			jineer during 1 & closeout	
Round 1 Geotechnical Data Collection	Sampling	Prepare G Input to se					
Negotiate Amendment or off-ramp/re-compete	2019 Jun 30 Dec 31	Dec 31 2020 Jun 30 2019	Dec 31 2021 Jun 30 2020	Dec 31 2021	Dec 31 2022	2027 Dec 31 2025 Dec 31	2031 Dec 31 2029

Timeline is not linear

Phase 2 Consultant RFQ

The Authority invites qualified firms (including teams of firms) with extensive expertise and experience in various services and processes described below to submit a Statement of Qualifications.

The Authority intends to select one or more organization to provide expert technical advice and consultation required for the preparation of all studies, reports, agreements and documents and support documentation required to advance the Sites Reservoir Project.

The scope of services includes:

- Project coordination, management and integration
- Prepare engineering designs
- Geotechnical Studies
- Complete the environmental analysis process
- Acquire all regulatory permits and agreement
- Communications and facilitation
- Support the acquisition of rights-of-way, and easements

Phase 2 Consultant SOQ Contents

Suggested RFQ - requested contents include

- Limited to 25 pages for each scope area
 - ✓ Executive Summary
 - ✓ Identification of Applicant (Name, Business type, Contact Info)
 - ✓ Geographic Location (Offices, number of employees, time at location)
 - ✓ Key Personnel (Specifically who and where, with what experience)
 - ✓ Experience and Technical Competence (scope item specific)
 - \checkmark Proposed approach to the work
 - Knowledge of the Sites Project, CA Water System, Water and Power facilities, regulatory system
 - ✓ Licenses and Certifications
 - ✓ References
 - ✓ Attach Standard form contract

Phase 2 Consultant Selection Schedule

(Proposed)

Α.	RFQ published	Early April 2018
В.	Contractor Questions	April 16
C.	Answers Deadline	April 27
D.	SOQ Submission Deadline	May 14
E.	Completion of review of SOQ	June 1
F.	Interview Dates	June 11 – June 20
G.	Recommendation of Selection	August 20
		August 20
H.	Contract approval (Intent to Award)	Sept 17



Comments Received During Workshop

- Critical success factors:
 - \circ Integration
 - Risk transfer who should "own" the risk
- As the communications function evolves, need to define "stakeholders"
- Best value is obtained through partnerships and teamwork
- Management of risk and quality are important functions (currently planned to be provided through the "integration" scope of services)
- As potential participants, federal and state contracting and funding requirements should be considered in request for qualifications/proposals. Examples:
 - Disadvantaged businesses, disabled veterans
 - o Disbursement of combined funds. Recognized foundations have been used
- Procurements after Phase 2A: Need to be prepared to receive alternative delivery concepts and potential impacts to permits and/or other aspects of the project. Also, what are trade-offs ("or equal") vs. accepting a lower level of performance.
- For applicable contracts for services such as permitting, selection process should consider having trustee or cooperating agency participation in selection process in a non-voting capacity.
- Need to address permit application requirements and level of design (e.g. USACE 404 permit applications require ~65% design)

Comments Received During Workshop

- A/E industry's continued consolidation & mobility of key personnel & expertise. Need to plan for such events and how to retain access to key personnel.
- A/E industry changes primarily in indemnification & insurance (i.e. business risk) typically in the form of "flow downs" from prime to subs.
 - Indemnification: In some instances, certain qualified subs can't (or are unwilling to) accept the owner's requirements.
 - Insurance: Typically larger amounts specified for larger firms/contracts that increase cost for small subs. In some cases they may not be able to buy the level of coverage being specified.

If owner is looking for best value, provide some flexibility and owner needs to understand where such exceptions are occurring.

- Address potential for contractual conflicts
 - If award to firm "A", can they compete on other contracts?
 - Similar for subcontractors and ability to be prime another contract
- RFQ Solicitation clarifications (proposed 25 page limit). Use attachments, which do not count towards page limit, for
 - o Resumes
 - Firm's standard form contract