

SITES RESERVOIR

MAXWELL / SITES PUMPING AND GENERATING PROJECT

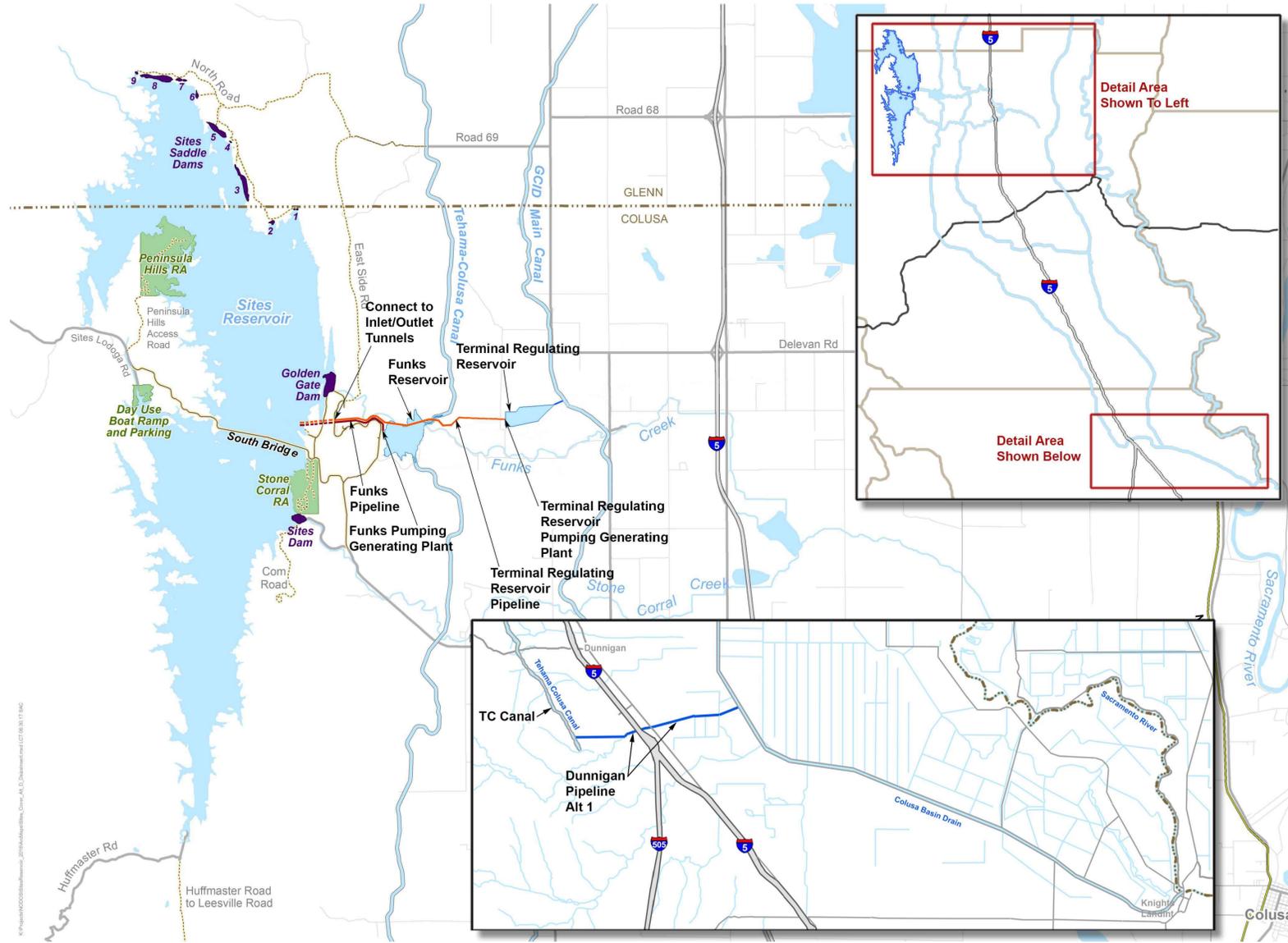
230KV TRANSMISSION

30% DESIGN - CLIENT REVIEW

DECEMBER 22, 2023



PROJECT LOCATION MAP



OVERALL PROJECT SITE MAP - DUNNIGAN PIPELINE NOT INCLUDED IN THIS PACKAGE

Plot Date: 12/21/2023 3:06 PM File: C:\pwworking\hdr_sites_reservoir\dms02764\MPG-0001-G-0001_TRMNS.dwg Saved By: DCAVE

REV	DATE	BY	CHK	APPR	DESCRIPTION

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 DRAWN BY: D. CAVE
 CHECKED BY: W. OHLIN
 IN CHARGE: P. RUDE
 DATE: 12-22-2023

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SITES RESERVOIR
 MAXWELL / SITES PUMPING AND GENERATING
 GENERAL COVER SHEET,
 LOCATION MAP AND SITE MAP

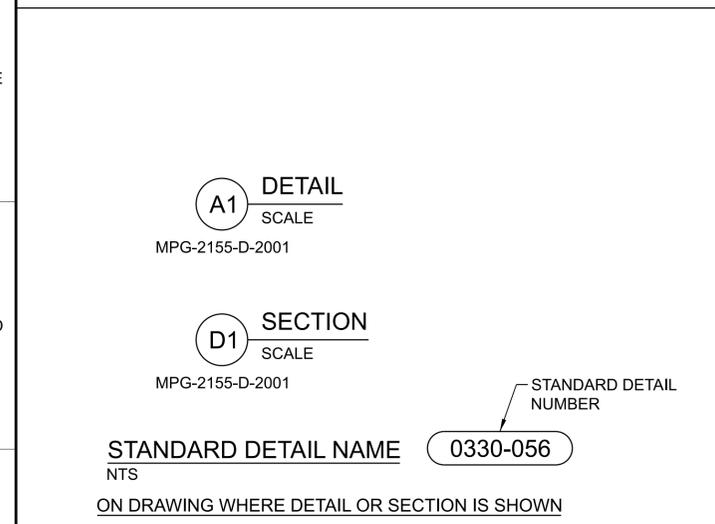
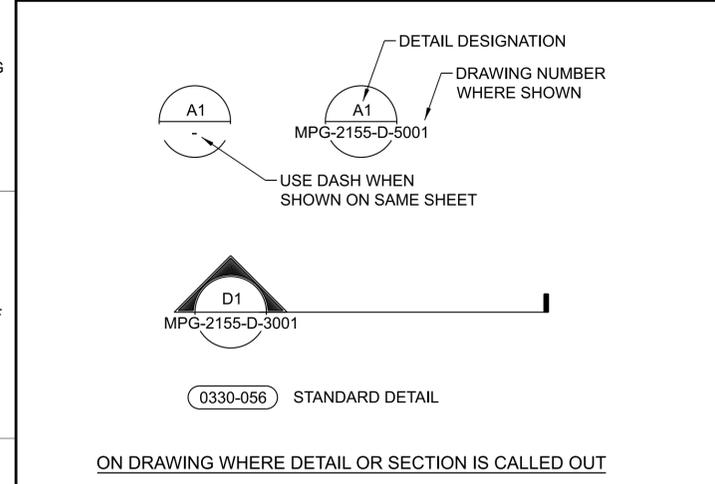
VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS.
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DRAWING NO.
 MPG-0001-G-0001
 SHT 1 OF 20

PRELIMINARY - NOT FOR CONSTRUCTION

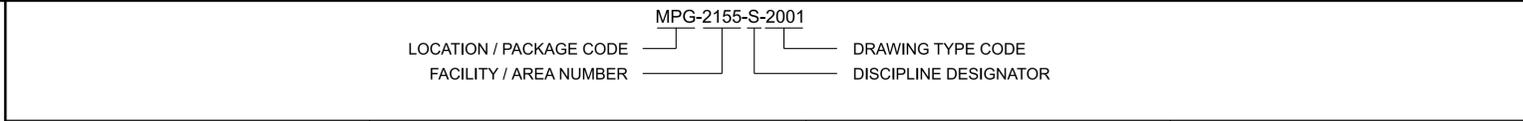
Plot Date: 11/14/2022 1:08 PM File: C:\pwworking\hdr_sites_reservoir\dms00728\SITES-BRDR_22X34.dwg Saved By: AJACKSON

GENERAL SYMBOLS



REV	DATE	BY	CHK.	APPR.	DESCRIPTION

DRAWING NUMBERING LEGEND



LOCATION / PACKAGE NUMBER AND CODE	MPG FACILITY / AREA NUMBERS	DISCIPLINE DESIGNATOR	DRAWING TYPE CODE
1- STS - SITES RESERVOIR 2- MPG - MAXWELL / SITES PUMPING AND GENERATING 3- SCD - RESERVOIR CLEARING AND DEMOLITION 4- HFR - HUFFMASTER ROAD 5- DNP - DUNNIGAN PIPELINE 6- CCA - TEHAMA-COLUSA CANAL AUTHORITY 7- CID - GLENN-COLUSA IRRIGATION DISTRICT 8- REC - SITES RECREATION 9- MIT - SITES MITIGATION	0001 - GENERAL 0010 - GEOTECH 0045 - OVERALL SITE CIVIL 0060 - OVERALL SITE ELECTRICAL 0065 - INSTRUMENTATION AND CONTROLS 2005 - ACCESS ROADS 2010 - TRANSMISSION 2015 - PGE POI SWITCHYARD 2030 - VALVE VAULT 2040 - ENVIRONMENTAL WATER PIPELINE DISSIPATION STRUCTURE 2100 - FNK - TEMPORARY CONSTRUCTION 2105 - FNK - SITE CIVIL 2107 - FNK - RETAINING WALL 2110 - FNK - YARD PIPING 2115 - FNK - RESERVOIR 2120 - FNK - PIPELINE 2125 - FNK - SITE AND GENERAL ELECTRICAL 2130 - FNK - SUBSTATION 2135 - FNK - INSTRUMENTATION AND CONTROLS 2145 - FNK - ADMINISTRATION AND OPERATIONS BUILDING 2150 - FNK - MAINTENANCE AND STORAGE BUILDING 2155 - FNK - PUMPING PLANT 2160 - FNK - SWITCHGEAR BUILDING 2161 - FNK - EMERGENCY GENERATOR 2165 - FNK - GENERATING PLANT 2170 - FNK - CHILLER YARD 2171 - FNK - HVAC BUILDING 2175 - FNK - EMERGENCY DISSIPATION STRUCTURE 2180 - FNK - FIRE WATER TANK 2181 - FNK - FIRE WATER PUMPING PLANT 2185 - FNK - SURGE CONTROL SYSTEM 2190 - FNK - FLOW METER VAULT 2200 - TRR - TEMPORARY CONSTRUCTION 2205 - TRR - SITE CIVIL 2207 - TRR - SHEET PILE WALL 2210 - TRR - YARD PIPING 2215 - TRR - RESERVOIR 2220 - TRR - PIPELINE 2225 - TRR - SITE ELECTRICAL 2230 - TRR - SWITCHYARD 2231 - TRR - SUBSTATION 2235 - TRR - INSTRUMENTATION AND CONTROL 2240 - TRR - TRANSMISSION 2255 - TRR - PUMPING PLANT 2260 - TRR - SWITCHGEAR BUILDING 2261 - TRR - EMERGENCY GENERATOR 2265 - TRR - GENERATING PLANT 2270 - TRR - CHILLER YARD 2271 - TRR - HVAC BUILDING 2275 - TRR - ENERGY DISSIPATION STRUCTURE 2280 - TRR - FIRE WATER TANK 2281 - TRR - FIRE WATER PUMPING PLANT 2285 - TRR - SURGE CONTROL SYSTEM 2291 - TRR - CHECK STRUCTURE 1 2292 - TRR - CHECK STRUCTURE 2 2293 - TRR - CHECK STRUCTURE 3 2294 - TRR - CHECK STRUCTURE 4	A - ARCHITECTURAL B - GEOTECHNICAL C - CIVIL D - PROCESS MECHANICAL E - ELECTRICAL F - FIRE PROTECTION FET - FOUNDATION EXCAVATION AND TREATMENT G - GENERAL H - HVAC I - INTERIORS J - PLUMBING K - TRANSMISSION L - LANDSCAPE M - BUILDING MECHANICAL N - INSTRUMENTATION AND CONTROLS P - PIPELINE Q - EQUIPMENT R - ROADWAY S - STRUCTURAL T - TELECOMMUNICATIONS V - SURVEY MAPPING Y - YARD PIPING	0000 - GENERAL AND 3D RENDERINGS 1000 - DEMOLITION 2000 - PLANS AND PLAN AND PROFILE 3000 - SECTIONS, ELEVATIONS AND PROFILES 4000 - ENLARGED PLANS 5000 - DETAILS 6000 - SCHEDULES AND DIAGRAMS 7000 - USER DEFINED 8000 - USER DEFINED 9000 - STD DETAILS

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SITES RESERVOIR
 MAXWELL / SITES PUMPING AND GENERATING
 GENERAL
 GENERAL SYMBOLS
 AND DRAWING NUMBERING LEGEND

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DRAWING NO.
 MPG-001-G-0020
 SHT 4 OF 20

PRELIMINARY - NOT FOR CONSTRUCTION

LEGEND AND SYMBOLS

EXISTING FEATURES

	DRAIN ROCK
	FENCE
	SUBSTATION FENCE
	GATE
	MAJOR CONTOURS
	MINOR CONTOURS
	SILO(S), TANK(S)
	TRAFFIC SIGN
	FIRE HYDRANT
	POST
	TREE
	PALM TREE
	BUSH
	POLE
	SURVEY CONTROL POINT
	MANHOLE
	MISC UTILITY
	UTILITY BOX
	TRAFFIC LIGHT
	UTILITY JUNCTION
	BILLBOARD
	CATCH BASIN, RECT
	VA-TRAF-BARR-POST
	COMMUNICATION ANTENNA
	UTILITY VALVE
	SIGN, REFLECTIVE
	MAILBOX
	STORM DRAIN INLET
	ROAD, CENTER
	ROAD, ALIGNMENT
	ROAD
	DRIVEWAY
	BUILDING OUTLINE
	WALL, RETAINING WALL
	WALL, RETAINING WALL WITH CONC BARRIER
	PIPE, UNIDENTIFIED
	HEADWALL
	CULVERT
	SANITARY SEWER UNDERGROUND PIPE
	SANITARY SEWER MANHOLE
	WATER UNDERGROUND PIPE
	NATURAL GAS UNDERGROUND PIPE
	FIBER OPTIC LINE
	ELEC UNDERGROUND
	ELEC OVERHEAD
	POWER POLE
	GUY WIRE
	GUY ANCHOR
	TRANSMISSION TOWER, METAL
	CANAL
	RAILROAD
	DITCH/FLOW LINE
	STORM DRAIN UNDERGROUND PIPE
	STORM DRAIN MANHOLE
	SLOPE BANK, CUT
	SLOPE BANK, FILL
	SPOT ELEVATION
	BORE LOCATION & #
	TEST PIT LOCATION AND NUMBER
	DWR AUGER HOLE
	DWR CORE HOLE
	USBR CORE HOLE
	GEOTECHNICAL BORING
	STRUCTURE, BUILDING OR FACILITY
	LOCATION POINT - COORDINATES

PROPOSED FEATURES

	DRAIN ROCK
	FENCE
	SUBSTATION FENCE
	GATE
	MAJOR CONTOURS
	MINOR CONTOURS
	SILO(S), TANK(S)
	TRAFFIC SIGN
	FIRE HYDRANT
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	GEOTECHNICAL BORING
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	LOCATION POINT - COORDINATES

EXISTING FEATURES

	SLOPE PERCENT OR RISE:RUN
	FLOW ARROW
	DIRECTION ARROW
	WATER SURFACE
	PIEZOMETER
	EARTH SLOPE
	STEEL CHECKER PLATE
	BENTONITE CEMENT GROUT
	BENTONITE PELLET SEAL
	CUTOFF WALL (DETAILS/SECTIONS)
	ORIGINAL GROUND
	AGGREGATE BASE
	DAM/LEEVEE FILL
	DAM/LEEVEE EMBANKMENT FILL
	FINE SAND
	CONCRETE
	CLSM
	ROCK SLOPE PROTECTION
	ASPHALT CONCRETE PAVEMENT
	GRAVEL SURFACING
	CUTOFF WALL (PLANS)
	LIMITS OF WORK
	BREAK LINE
	PIPE BREAK LINE
	CENTERLINE
	SPRING LINE CENTERLINE
	DEMOLITION
	STRUCTURE, BUILDING OR FACILITY
	EXISTING PIPE TO BE ABANDONED
	EXISTING PIPE TO BE DEMOLISHED
	CONSTRUCTION CONTRACT LIMIT
	CONSTRUCTION EASEMENT
	CABLE TV
	COMMUNICATION
	FIRE PROTECTION WATER SUPPLY
	GUARD RAIL
	PROPERTY LINE
	CONTRACTOR STAGING BOUNDARY
	RIGHT OF WAY
	SILT FENCE
	TELEPHONE OVERHEAD
	TELEPHONE UNDERGROUND
	TEMPORARY CONSTRUCTION EASEMENT
	PERMANENT EASEMENT

PROPOSED FEATURES

	SLOPE PERCENT OR RISE:RUN
	FLOW ARROW
	DIRECTION ARROW
	WATER SURFACE
	PIEZOMETER
	EARTH SLOPE
	STEEL CHECKER PLATE
	BENTONITE CEMENT GROUT
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	CUTOFF WALL (DETAILS/SECTIONS)
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	SILT FENCE
	TELEPHONE OVERHEAD
	TELEPHONE UNDERGROUND
	TEMPORARY CONSTRUCTION EASEMENT
	PERMANENT EASEMENT

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REV	DATE	BY	CHK	APPR	DESCRIPTION

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SHT 5 OF 20

PRELIMINARY - NOT FOR CONSTRUCTION

CAST IN PLACE CONCRETE

- 28-DAY COMPRESSIVE STRENGTHS (TO MEET STRUCTURAL STRENGTH REQUIREMENTS):
 HYDRAULIC STRUCTURES: 4,500 PSI
 BUILDING STRUCTURES: 4,000 PSI
 CONCRETE FILL: 3,500 PSI
 CURBS AND SIDEWALKS: 3,500 PSI
 DUCT BANKS AND PIPE ENCASUREMENTS
 NOT INTEGRAL WITH FOUNDATIONS: 3,500 PSI
- 56-DAY COMPRESSIVE STRENGTHS (TO MEET DURABILITY REQUIREMENTS FOR ACI 318 AND ACI 350):
 HYDRAULIC STRUCTURES: 5,000 PSI
 BUILDING STRUCTURES: 4,500 PSI
 CONCRETE FILL: 4,000 PSI
 CURBS AND SIDEWALKS: 4,000 PSI
 DUCT BANKS AND PIPE ENCASUREMENTS
 NOT INTEGRAL WITH FOUNDATIONS: 4,000 PSI
- CONTINUOUS WATERSTOP AS SPECIFIED SHALL BE INSTALLED IN ALL CONSTRUCTION JOINTS IN WALLS AND SLABS OF WATER HOLDING BASINS AND BELOW GRADE STRUCTURES UNLESS SPECIFICALLY NOTED OTHERWISE.
- CONSTRUCTION JOINTS INDICATED ARE SUGGESTED LOCATIONS. CONTRACTOR MAY REVISE LOCATION OF JOINTS, SUBJECT TO SPECIFIED REQUIREMENTS. LAYOUT SHOWING ALL CONSTRUCTION JOINT LOCATIONS SHALL BE SUBMITTED FOR REVIEW BY ENGINEER.
- ROUGHEN AND CLEAN CONSTRUCTION JOINTS IN WALLS AND SLABS AS SPECIFIED PRIOR TO PLACING ADJACENT CONCRETE, EXPOSING CLEAN AGGREGATE OF 1/4" AMPLITUDE SOLIDLY EMBEDDED IN MORTAR MIX.
- COORDINATE PLACEMENT OF OPENINGS, PIPE PENETRATIONS, CURBS, DOWELS, SLEEVES, CONDUITS, BOLTS AND INSERTS PRIOR TO PLACEMENT OF CONCRETE.
- NO ALUMINUM CONDUIT OR PRODUCTS CONTAINING ALUMINUM OR ANY OTHER MATERIAL INJURIOUS TO THE CONCRETE SHALL BE EMBEDDED IN THE CONCRETE.
- CONDUIT SHALL NOT BE PLACED PARALLEL WITH BEAM OR COLUMN REINFORCEMENT UNLESS SPECIFICALLY INDICATED IN DRAWINGS.
- PATCH FORM TIE HOLES IN ACCORDANCE WITH STANDARD DETAILS.

CONCRETE UNIT MASONRY

- MASONRY WALL TYPE: SPECIAL REINFORCED WALLS.
- DESIGN COMPRESSIVE STRENGTH, f_m, OF THE FINISHED ASSEMBLY AND MATERIAL PROPERTIES SHALL BE PER THE TABLE BELOW.
- MORTAR: ASTM C270, TYPE S, HYDRATED.
- GROUT: ASTM C476 COARSE GROUT. USE OF WATER REDUCERS OR SUPERPLASTICIZERS IS NOT PERMITTED.
- CONCRETE MASONRY UNITS: ASTM C90, MEDIUM WEIGHT, LINEAR SHRINKAGE SHALL NOT EXCEED 0.065 PERCENT.

DESIGN COMPRESSIVE STRENGTH f _m (PSI)	UNIT STRENGTH (PSI)	GROUT STRENGTH (PSI) MIN / MAX	MORTAR PROPERTIES
2,000	2,000	2,000 / 3,500	TYPE S

- PLACE COURSES IN WALLS, COLUMNS, AND PILASTERS IN RUNNING BOND PATTERN.
- PROVIDE MATCHING FOUNDATION DOWELS FOR ALL TYPICAL AND ADDITIONAL VERTICAL BARS.
- PROVIDE VERTICAL BARS AND DOWELS WITH LAP LENGTHS AS SHOWN IN DETAIL 0422-004.
- STAGGER ADJACENT LAP SPLICES BY 24 INCHES WHEN SEPARATED BY 3 INCHES OR LESS.
- PROVIDE NUMBER OF FULL HEIGHT VERTICAL BARS AT EDGES OF OPENINGS AS SHOWN IN DETAIL 0422-004.
- PROVIDE FULL HEIGHT VERTICAL BARS IN 3 CELLS AT WALL CORNERS AND INTERSECTIONS AS SHOWN IN DETAIL 0422-001.
- PROVIDE HORIZONTAL CORNER AND INTERSECTION BARS WITH LAP LENGTHS AS SHOWN IN DETAIL 0422-001.
- PROVIDE REINFORCED LINTELS ABOVE AND REINFORCED BOND BEAMS BELOW OPENINGS AS SHOWN IN DETAIL 0422-002.
- PROVIDE FULL HEIGHT VERTICAL BARS WITH MATCHING DOWELS IN CELLS ADJACENT TO OPENINGS AS SHOWN IN DETAIL 0422-002.
- GROUTING: SOLID GROUT ALL CMU WALLS.
- DO NOT PLACE CONDUIT IN CELLS CONTAINING PARALLEL REINFORCEMENT.

WELDING

- WELDS SHALL CONFORM TO AMERICAN WELDING SOCIETY (AWS), LATEST EDITION:
 D1.1, STRUCTURAL WELDING CODE – STEEL
 D1.2, STRUCTURAL WELDING CODE – ALUMINUM
 D1.3, STRUCTURAL WELDING CODE – SHEET STEEL
 D1.4, STRUCTURAL WELDING CODE – REINFORCING STEEL
 D1.6, STRUCTURAL WELDING CODE – STAINLESS STEEL
- REPAIR WELDS FOUND DEFECTIVE IN ACCORDANCE WITH AWS D1.1 CLAUSE 7.25.
- USE INTERMITTENT WELDS AND A LOW HEAT INPUT WELDING PROCESS AT FIELD WELDS OF EMBED PLATES AND ANGLES TO AVOID SPALLING OR CRACKING OF THE EXISTING CONCRETE.
- BUTT JOINT AND GROOVE WELDS SHALL BE COMPLETE JOINT PENETRATION (CJP) UNLESS INDICATED OTHERWISE.

STRUCTURAL STEEL AND METAL FABRICATIONS

- STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING:
 W-SHAPES AND CHANNELS A992
 MISCELLANEOUS SHAPES INCLUDING ANGLES, PLATES, ETC. A572
 SQUARE OR RECTANGULAR STEEL TUBING A500, GRADE C
 STEEL PIPE A53, GRADE B
 STAINLESS STEEL SHAPES A276
- ALUMINUM SHALL CONFORM TO THE FOLLOWING STANDARDS:
 STRUCTURAL SHAPES B308
 PLATES B209
- STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN CONFORMANCE WITH THE AISC MANUAL OF STEEL CONSTRUCTION, CURRENT EDITION, AND CURRENT OSHA STANDARDS.
- FASTENERS SHALL BE HIGH STRENGTH BOLTS CONFORMING TO THE FOLLOWING EXCEPT WHERE SPECIFICALLY INDICATED OTHERWISE:
 UNLESS SHOWN OTHERWISE F3125, GRADE A325, TYPE I
 ANCHOR BOLTS (AB)
 STAINLESS STEEL F593, AISI TYPE 304 OR 316, CONDITION CW
 STEEL F1554, GR 36
 GALVANIZED STEEL F1554, GR 36 / A153
 MACHINE BOLTS (MB) A307, GRADE B
- ITEMS TO BE EMBEDDED IN CONCRETE SHALL BE CLEAN AND FREE OF OIL, DIRT AND PAINT.
- NO HOLES OTHER THAN THOSE SPECIFICALLY DETAILED SHALL BE ALLOWED THROUGH STRUCTURAL STEEL MEMBERS. NO CUTTING OR BURNING OF STRUCTURAL STEEL IS PERMITTED WITHOUT THE WRITTEN APPROVAL OF JACOBS.
- ALL STEEL MEMBERS EXPOSED TO WEATHER SHALL BE HOT-DIP GALVANIZED TO ASTM A123 UNLESS NOTED OTHERWISE. MEMBERS THAT ARE WELDED AFTER GALVANIZING SHALL BE TOUCHED UP WITH A ZINC RICH COATING AFTER COMPLETIONS AND INSPECTION OF THE WELD.

OPEN WEB METAL JOIST FRAMING

- JOISTS SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF THE AISC AND THE STEEL JOIST INSTITUTE (SJI).
- SEE ROOF FRAMING PLANS FOR DESIGN LOADS.
- LOADS INDICATED ON THE DRAWINGS ARE MINIMUM DESIGN LOADS AND SHALL NOT BE CONSTRUED TO BE ALL LOADS APPLICABLE TO THE DESIGN OF THE JOISTS. DEAD LOADS INFERRED BY THE DRAWINGS WHICH WOULD BE INCLUDED IN COMMON PRACTICE, INCLUDING EQUIPMENT LOADS AND CONSTRUCTION LOADS, SHALL BE INCLUDED IN THE DESIGN.
- VERIFY AND COORDINATE EQUIPMENT WEIGHTS, LOCATIONS, AND ATTACHMENT REQUIREMENTS PRIOR TO JOIST FABRICATION. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE VERTICAL AND LATERAL SUPPORT OF EQUIPMENT AS SPECIFIED IN SECTION 01 88 15, ANCHORAGE AND BRACING. JOIST MANUFACTURER SHALL COORDINATE AND SUPPLY ADDITIONAL DIAGONAL WEB MEMBERS AT CONCENTRATED LOAD LOCATIONS.
- JOIST SIZES AND CHORD SIZES INDICATED ON THE PLANS ARE MINIMUM ONLY. DESIGN BY THE JOIST MANUFACTURER MAY RESULT IN A LARGER SIZE. JOISTS SHALL HAVE DOUBLE ANGLE CHORDS.
- DESIGN JOIST TOP CHORD AT END OF ROOF SUB-DIAPHRAGMS AND JOISTS DESIGNATED AS DRAG STRUTS FOR ADDITIONAL AXIAL LOAD (BOTH TENSION AND COMPRESSION) AS INDICATED ON THE ROOF FRAMING PLANS.
- PROVIDE CALCULATIONS, PRODUCT DATA, MATERIAL PROPERTIES, CONNECTION DETAILS, ETC FOR ALL TYPES OF JOISTS. CALCULATIONS SHALL BE STAMPED AND SIGNED BY AN ENGINEER REGISTERED IN THE STATE OF CA.
- JOIST BRIDGING, BOTTOM CHORD BRACING, AND OTHER ACCESSORIES SHALL BE PER THE MANUFACTURER'S STANDARDS AND AS INDICATED ON THE DRAWINGS. BRACING SHALL EXTEND TO WALLS, SEE DETAIL 0521-022.
- JOISTS SHALL BE CAMBERED FOR DEAD LOAD AS REQUIRED BY SJI. PROVIDE STANDARD SJI CAMBER UNLESS NOTED OTHERWISE. JOIST CAMBER SHALL BE SHOWN ON SHOP DRAWINGS.

STEEL DECKING

- FOR DECK SIZE, GAGE, AND FASTENING CONFIGURATIONS, SEE FRAMING PLANS. FASTENING CONFIGURATIONS SHOWN ARE SPECIFIC TO THE DECK PRODUCT USED AS BASIS OF DESIGN. CONTRACTOR SHALL FASTEN THE DECKING IN ACCORDANCE WITH INSTALLED DECK MANUFACTURER'S RECOMMENDATIONS TO MEET SPECIFIED CAPACITY REQUIREMENTS.
- WELDING SHALL BE IN ACCORDANCE WITH AWS D1.3 "STRUCTURAL WELDING CODE SHEET STEEL".
- DECKING SHALL HAVE A MINIMUM 1 1/2 INCHES BEARING ON SUPPORTS.
- DECKING SHALL BE CONTINUOUS OVER THREE SPANS MINIMUM, EXCEPT WHERE SHOWN OTHERWISE.
- LOCATE OPENINGS FOR EQUIPMENT PER OTHER DISCIPLINE DRAWINGS.

DEFERRED SUBMITTALS

- DEFERRED SUBMITTALS ARE THOSE PORTIONS OF THE DESIGN WHICH ARE NOT SUBMITTED AT THE TIME OF PERMIT APPLICATION AND WHICH ARE TO BE SUBMITTED TO THE PERMITTING AGENCY FOR ACCEPTANCE PRIOR TO INSTALLATION OF THAT PORTION OF THE WORK.
- THE FOLLOWING IS A LIST OF DEFERRED SUBMITTALS THAT ARE EXPECTED TO CONTAIN STRUCTURAL CALCULATIONS OR SAFETY RELATED SYSTEM INFORMATION FOR REVIEW TO MEET BUILDING PERMITTING REQUIREMENTS FOR DESIGNED SYSTEMS. PRIOR TO INSTALLATION OF THE INDICATED STRUCTURAL ELEMENT, EQUIPMENT, DISTRIBUTION SYSTEM, OR COMPONENT OR ITS ANCHORAGE, SUBMIT THE REQUIRED CALCULATIONS AND SUPPORTING DATA AND DRAWINGS FOR REVIEW AND ACCEPTANCE.

SPECIFICATION SECTION	ITEM
01 88 15	ANCHORAGE AND BRACING
05 21 19	OPEN WEB STEEL JOIST FRAMING
33 16 13.12	BOLTED STEEL STORAGE TANK
40 05 15	PIPING SUPPORT SYSTEMS
OTHER	ANY EQUIPMENT OR COMPONENT IN WHICH A TECHNICAL SPECIFICATION REQUIRES SUBMITTAL OF EQUIPMENT OR ANCHORAGE SYSTEM CALCULATIONS

Plot Date: 12/12/2023 2:59 PM File: C:\pwworking\hdr_sites_reservoir\dwg\01711\MPG-0001-G-0302.dwg Saved By: DCAVE

REV	DATE	BY	CHK.	P.RU	DESCRIPTION

DESIGNED BY: J. KELLOGG
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SITES RESERVOIR
MAXWELL / SITES PUMPING AND GENERATING
GENERAL
STRUCTURAL NOTES 2

VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS. 0 1"
DRAWING NO. MPG-0001-G-0302 SHT 7 OF 20

PRELIMINARY - NOT FOR CONSTRUCTION

Plot Date: 1/12/2023 8:15 AM
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ONE-LINE DIAGRAM

CONTROL DIAGRAM

ONE-LINE DIAGRAM		CONTROL DIAGRAM																	
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION																
	DRAWOUT AIR CIRCUIT BREAKER, LOW VOLTAGE		DRAWOUT FUSED SWITCH AND VACUUM CONTACTOR, MEDIUM VOLTAGE																
	CIRCUIT BREAKER, THERMAL MAGNETIC TRIP SHOWN, 3 POLE, UNO		DRAWOUT VACUUM CONTACTOR, MEDIUM VOLTAGE																
	CIRCUIT BREAKER, STATIC TRIP UNIT, SENSOR AMP TRIP AND FRAME RATINGS SHOWN, 3 POLE, UNO		MEDIUM VOLTAGE CABLE STRESS CONE TYPE TERMINATION, OPEN TERMINATOR OR BELOW																
	CIRCUIT BREAKER, MAGNETIC TRIP SHOWN, TRIP RATING SHOWN, 3 POLE, UNO		SWITCH - LOAD BREAK, GROUP OPERATED, MEDIUM VOLTAGE																
	CIRCUIT BREAKER WITH CURRENT LIMITING FUSES, TRIP AND FUSE RATING INDICATED, 3 POLE, UNO		SWITCH W/ARCING HORNS, MEDIUM VOLTAGE																
	FUSED SWITCH, SWITCH AND FUSE CURRENT RATING INDICATED, 3 POLE, UNO		DISCONNECTING FUSE - SOLID MATERIAL, MEDIUM VOLTAGE																
	SWITCH, CURRENT RATING INDICATED, 3 POLE, UNO		SWITCH - HOOK STICK OPERATED, SINGLE POLE, MEDIUM VOLTAGE																
	FUSE, CURRENT RATING AND QUANTITY INDICATED		FUSE - EXPULSION, HOOK STICK OPERATED, SINGLE POLE, MEDIUM VOLTAGE																
	MAGNETIC STARTER WITH OVERLOAD, NEMA SIZE INDICATED, FVNR UNO		GROUND SWITCH, GANG OPERATED																
	ELECTRONIC STARTER/SPEED CONTROL RVSS = REDUCED VOLTAGE SOFT STARTER ASD = AC ADJUSTABLE SPEED DRIVE DC = DC ADJUSTABLE SPEED DRIVE RVAT = REDUCED VOLTAGE AUTO TRANSFORMER TYPE RVRT = REDUCED VOLTAGE REACTOR TYPE		TERMINAL BLOCK LUG																
	CABLE OR BUS CONNECTION POINT		DELTA CONNECTION																
	KEY INTERLOCK		WYE GROUNDED CONNECTION, SOLID GROUND																
	SURGE ARRESTER (GAS TYPE)		WYE NEUTRAL GROUND RESISTOR OR IMPEDANCE CONNECTION																
	CAPACITOR - KVAR INDICATED, 3 PHASE		RELAY OR DEVICE, FUNCTION NUMBER AS INDICATED																
	AC MOTOR, SQUIRREL CAGE INDUCTION - HORSEPOWER INDICATED		CURRENT TRANSFORMER, ZERO SEQUENCE, RATIO AND QUANTITY INDICATED																
	GENERATOR, KW/KVA RATING SHOWN		BUSHING CURRENT TRANSFORMER, MULTI-RATIO AND QUANTITY INDICATED																
	ANALOG METER WITH SWITCH - SCALE RANGE SHOWN V = VOLTAGE KW = KILOWATTS A = AMPERAGE KVAR = KILOVAR PF = POWER FACTOR		METAL OXIDE SURGE ARRESTER, MAXIMUM CONTINUOUS OVERVOLTAGE RATING AND QUANTITY INDICATED																
	DIGITAL POWER METER (MULTIFUNCTION)		MULTI-FUNCTION DIGITAL RELAY MPR = MOTOR PROTECTION RELAY FMR = FEEDER MANAGEMENT RELAY MMR = MAIN MANAGEMENT RELAY GPR = GENERATOR PROTECTIVE RELAY																
	UTILITY REVENUE METER																		
	GROUND																		
	TRANSFORMER, SIZE, VOLTAGE RATINGS AND PHASE INDICATED																		
	SHIELDED ISOLATION TRANSFORMER																		
	POTENTIAL TRANSFORMER, VOLTAGE RATING AND QUANTITY INDICATED																		
	CURRENT TRANSFORMER, RATIO(100:5) AND QUANTITY INDICATED (3)																		
	CONNECTION POINT TO EQUIPMENT SPECIFIED IN OTHER DIVISIONS, RACEWAY, CONDUCTOR AND CONNECTION IN THIS DIVISION																		
	TRANSIENT VOLTAGE SURGE SUPPRESSOR																		
	SURGE PROTECTIVE DEVICE																		
	DRAWOUT POWER CIRCUIT BREAKER, MEDIUM VOLTAGE																		
	NON DRAWOUT FUSED SWITCH, MEDIUM VOLTAGE																		
	DRAWOUT FUSED SWITCH AND CONTACTOR, MEDIUM VOLTAGE																		
			PUSH-BUTTON SWITCH, MOMENTARY CONTACT, NORMALLY OPEN																
			PUSH-BUTTON SWITCH, MOMENTARY CONTACT, NORMALLY CLOSED																
			PUSH-BUTTON SWITCH, MAINTAINED CONTACTS WITH MECHANICAL INTERLOCK																
			3 POSITION SELECTOR SWITCH MAINTAINED CONTACT																
			SELECTOR SWITCH - MAINTAINED CONTACT - CHART IDENTIFIES OPERATION WHEN NEEDED FOR CLARITY																
		<table border="1"> <thead> <tr> <th colspan="4">POSITION</th> </tr> <tr> <th>CKT</th> <th>HAND</th> <th>OFF</th> <th>REMOTE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>X</td> <td>O</td> <td>O</td> </tr> <tr> <td>2</td> <td>O</td> <td>O</td> <td>X</td> </tr> </tbody> </table> X - CLOSED CONTACT O - OPEN CONTACT	POSITION				CKT	HAND	OFF	REMOTE	1	X	O	O	2	O	O	X	
POSITION																			
CKT	HAND	OFF	REMOTE																
1	X	O	O																
2	O	O	X																
			TOGGLE SWITCH, ON-OFF TYPE																
			SELECTOR SWITCH, ON-OFF TYPE																
			MUSHROOM HEAD PUSHBUTTON SWITCH																
			INDICATING LIGHT, PUSH-TO-TEST, LETTER INDICATES COLOR																
			INDICATING LIGHT - LETTER INDICATES COLOR A - AMBER G - GREEN S - STROBE B - BLUE R - RED C - CLEAR W - WHITE																
			ELAPSED TIME METER																
			MOTOR STARTER CONTACTOR COIL																
			CONTROL RELAY, X INDICATES NUMERICAL ORDER IN CIRCUIT																
			TIME DELAY RELAY, X INDICATES NUMERICAL ORDER IN CIRCUIT																
			SOLENOID VALVE, X INDICATES NUMERICAL ORDER IN CIRCUIT																
			CONTACT - NORMALLY OPEN																
			CONTACT - NORMALLY CLOSED																
			REMOTE DEVICE																
			TIME DELAY RELAY CONTACT, NORMALLY OPEN, CLOSSES WHEN ENERGIZED AND TIMED OUT																
			TIME DELAY RELAY CONTACT, NORMALLY CLOSED, OPENS WHEN ENERGIZED AND TIMED OUT																
			TIME DELAY RELAY CONTACT, CLOSSES WHEN ENERGIZED, OPENS WHEN DE-ENERGIZED AND TIMED OUT																
			TIME DELAY RELAY CONTACT, OPENS WHEN ENERGIZED, CLOSSES WHEN DE-ENERGIZED AND TIMED OUT																
			MOTOR SPACE HEATER																
			TERMINAL BLOCK, REMOTE																
			TERMINAL BLOCK, INTERNAL																
			FUSED TERMINAL BLOCK																
			FUSE RATING INDICATED																
			TRANSFORMER, CONTROL POWER																
			THERMOCOUPLE																
			CAPACITOR																
			BATTERY																
			LIMIT SWITCH, NORMALLY OPEN, CLOSSES AT END OF TRAVEL																
			LIMIT SWITCH, NORMALLY CLOSED, OPENS AT END OF TRAVEL																
			TEMPERATURE SWITCH, OPENS ON TEMPERATURE RISE																
			TEMPERATURE SWITCH, CLOSSES ON TEMPERATURE RISE																
			FLOAT SWITCH, NORMALLY OPEN, CLOSSES ON DESCENDING LEVEL																
			FLOAT SWITCH, NORMALLY OPEN, CLOSSES ON RISING LEVEL																
			PRESSURE SWITCH, NORMALLY CLOSED, OPENS ON RISING PRESSURE																
			PRESSURE SWITCH, NORMALLY OPEN, CLOSSES ON RISING PRESSURE																
			FLOW SWITCH, CLOSSES ON INCREASED FLOW																
			FLOW SWITCH, OPENS ON INCREASED FLOW																
			NEUTRAL GROUND CURRENT LIMITING RESISTOR																
			CALIBRATING RESISTOR																
			TACHOMETER GENERATOR																
			GROUND FAULT SENSOR																
			FLASHER																
			SEALED CONTACT																
			BUZZER																
			POTENTIOMETER																
			RESISTOR																
			BLOWN FUSE INDICATOR																
			COAXIAL CABLE																
			DUPLEX RECEPTACLE																
			RELAY, WITH MECHANICAL LATCH																
			FULLWAVE DIODE BRIDGE (AC TO DC)																

REV	DATE	BY	CHK	APPR.	DESCRIPTION

DESIGNED BY:	C. CUSWORTH
DRAWN BY:	E. GARCIA
CHECKED BY:	J. LANDMAN
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SITES RESERVOIR
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GENERAL
ELECTRICAL LEGEND 1

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS.
0 1"
DRAWING NO.
MPG-0001-G-0601
SHT 8 OF 20

PRELIMINARY - NOT FOR CONSTRUCTION

POWER SYSTEM PLAN

GROUND SYSTEM PLAN

ABBREVIATIONS

SYMBOL	DESCRIPTION
	CONNECTION POINT TO EQUIPMENT SPECIFIED. RACEWAY, CONDUCTOR, TERMINATION AND CONNECTION IN THIS DIVISION
	MAJOR ELECTRICAL COMPONENT OR DEVICE - NAME OR IDENTIFYING SYMBOL AS SHOWN
	PANELBOARD - SURFACE MOUNTED
	PANELBOARD LETTER OR NUMBER
	FACILITY NUMBER
	LP - LOW VOLTAGE PANEL
	DP - DISTRIBUTION PANEL
	PANELBOARD - FLUSH MOUNTED
	TERMINAL JUNCTION BOX
	MOTOR, SQUIRREL CAGE INDUCTION
	GENERATOR, VOLTAGE AND SIZE AS INDICATED
	HOME RUN - DESTINATION SHOWN
	EXPOSED CONDUIT AND CONDUCTORS*
	CONCEALED CONDUIT AND CONDUCTORS*
NOTE: ALL UNMARKED CONDUIT RUNS CONSIST OF TWO NO. 12, ONE NO. 12 GROUND CONDUCTORS IN 3/4" CONDUIT. RUNS MARKED WITH CROSSHATCHES INDICATE NUMBER OF NO. 12 CONDUCTORS. CROSSHATCH WITH SUBSCRIPT "G" INDICATES GREEN GROUND WIRE.	
	CROSSHATCHES WITH BAR INDICATE NO. 10 CONDUCTOR. SIZE CONDUIT ACCORDING TO SPECIFICATIONS AND APPLICABLE CODE.
	CONDUIT AND CONDUCTOR CALLOUT, SEE LEGEND.
	CONDUIT DOWN
	CONDUIT UP
	CONDUIT, STUBBED AND CAPPED
	CONDUIT TERMINATION AT CABLE TRAY
	EXISTING CONDUIT / DUCT BANK
	BUS DUCT - SEE SPECIFICATIONS
	CONCRETE ENCASED CONDUIT
	DIRECT BURIED CONDUIT
	FIBER OPTIC CONDUIT
	CONCRETE ENCASED DUCT BANK WHERE XXXX IS THE DUCT BANK NAME. SEE CIRCUIT AND RACEWAY CODING DEFINITION
	CONCEALED CONDUIT ROUTING AREA
	CONDUIT ROUTING AREA
	CABLE TRAY
	TRANSFORMER
	GENERAL CONTROL OR WIRING DEVICE. LETTER SYMBOLS OR ABBREVIATIONS INDICATE TYPE OF DEVICE
	CONTROL STATION. SEE CONTROL DIAGRAMS FOR CONTROL DEVICE(S) REQUIRED
	NONFUSED DISCONNECT SWITCH, CURRENT RATING INDICATED, 3 POLE
	FUSED DISCONNECT SWITCH, CURRENT RATING INDICATED (60/40, 60 = SWITCH RATING / 40 = FUSE RATING) 3 POLE
	COMBINATION CIRCUIT BREAKER AND MAGNETIC STARTER, NEMA SIZE INDICATED
	BREAKER SEPARATELY MOUNTED, CURRENT RATING INDICATED (100/40, 100 = FRAME SIZE; 40 = TRIP RATING) 3 POLE
	CONTACTOR, MAGNETIC, NEMA SIZE INDICATED
	LIGHTING CONTACTOR, CURRENT RATING INDICATED
	STARTER, MAGNETIC NEMA SIZE INDICATED

SYMBOL	DESCRIPTION
	CONVENIENCE RECEPTACLE - DUPLEX UNLESS NOTED OTHERWISE
	WP - WEATHERPROOF
	C - CLOCK HANGER
	TL - TWIST LOCK
	CRE - CORROSION RESISTANT
	GFCI - GROUND FAULT CIRCUIT INTERRUPTER
	SUBSCRIPT NUMBER AT RECEPTACLE INDICATES CIRCUIT
	240V RECEPTACLE
	CONVENIENCE RECEPTACLE - QUADRUPLEX
	MULTI OUTLET ASSEMBLY
	DUPLEX CONVENIENCE RECEPTACLE - FLUSH IN FLOOR
	CONVENIENCE RECEPTACLE, PEDESTAL, DUPLEX SINGLE FACE UNLESS INDICATED OTHERWISE
	RECEPTACLE, SPECIAL PURPOSE-NEMA CONFIGURATION AND AMPERAGE INDICATED
	THERMOSTAT
	UTILITY REVENUE METERING FACILITY
	UTILITY POLE WITH GUY WIRE
	230kV TRANSMISSION LINE STRUCTURE
	ELECTRICAL BOX/Vault IDENTIFICATION
	XX: HH - HANDHOLE
	MH - MANHOLE
	PB - PULLBOX
	YY: MV - MEDIUM VOLTAGE POWER
	P - LOW VOLTAGE POWER
	C - CONTROL
	ZZ: IDENTIFICATION NUMBER (e.g. 01)

LIGHTING SYSTEM PLAN

	LUMINAIRE, SEE SCHEDULE
	LUMINAIRE, SEE SCHEDULE
	LUMINAIRE WITH INTERNAL BATTERY BACKUP, SEE SCHEDULE
	STRIP LUMINAIRE, SEE SCHEDULE
	LUMINAIRE AND POLE, SEE SCHEDULE
	WALL MOUNTED LUMINAIRE, SEE SCHEDULE
	FLOOD LIGHTS - AIM IN THE DIRECTION SHOWN
	STANDBY LIGHTING UNIT, SURFACE MOUNTED, SEE SCHEDULE
	EXIT LIGHTS - FILLED SECTION INDICATES LIGHTED FACE, ARROW INDICATES EGRESS DIRECTIONAL INDICATORS, XX = FIXTURE NUMBER, SEE SCHEDULE
	SMALL LETTER SUBSCRIPT AT SWITCH AND LUMINAIRE INDICATES SWITCHING. SUBSCRIPT NUMBER AT LUMINAIRE INDICATES CIRCUIT
	WALL SWITCH: 2- DOUBLE POLE 3- THREE WAY 4- FOUR WAY WP- WEATHERPROOF EX- EXPLOSIONPROOF M - MOTOR RATED MS- MANUAL STARTER WITH OVERLOADS LV- ON/OFF/DIMMING (0-10V)
	P- PILOT LIGHT
	K- KEY OPERATED
	D- DIMMER
	CRE- CORROSION RESISTANT
	L- MOMENTARY 3-WAY
	OCCUPANCY SENSOR
	LIGHTING CONTACTOR
	MOTION DETECTOR
	PHOTOCCELL

	GROUND ROD
	GROUND ROD IN TEST WELL
	GROUNDING CONDUCTOR, SIZE AS INDICATED
	PIGTAIL FOR CONNECTION TO EQUIPMENT CABINET OR FRAME
	EQUIPMENT GROUND BUS
	EQUIPMENT NEUTRAL BUS

ABBREVIATIONS

ABBREVIATIONS	DESCRIPTION	ABBREVIATIONS	DESCRIPTION
A	AMMETER, AMPERE, AMBER	M	MAGNETIC CONTACTOR
AF	AMPERE FRAME	MCC	MOTOR CONTROL CENTER
AFD	ADJUSTABLE FREQUENCY DRIVE	MH	MANHOLE, METAL HALIDE
AFF	ABOVE FINISHED FLOOR	MO	MOTOR OPERATER
AFG	ABOVE FINISHED GRADE	MS	MOTOR STARTER
AS	AMMETER SWITCH, AMPERE SENSOR	MSC	MFR SUPPLIED CABLE
ASU	AIR SUPPLY UNIT	MT	MOUNT
AT	AMPERE TRIP	MTD	MOUNTED
ATC	AUTOMATIC THROWOVER CONTROL	N	NEUTRAL
ATS	AUTOMATIC TRANSFER SWITCH	NA	NON-AUTOMATIC
		NC	NORMALLY CLOSED
		NL	NIGHT LIGHT
		NO	NORMALLY OPEN
		NP	NAMEPLATE
BC	BARE COPPER	OC	ON CENTER
BCP	BRANCH CIRCUIT PANEL	OL	OVERLOAD RELAY
BPP	BRANCH POWER PANEL		
BRKR	BREAKER	PB	PULL BOX, PUSH BUTTON SWITCH
C	CONDUIT, CONTACTOR	PC	PHOTOCCELL
CB	CIRCUIT BREAKER	PH	PHASE
CC	CONTROL CABLE	PMR	PHASE MONITOR RELAY
CKT	CIRCUIT	PNL	PANEL
CPT	CONTROL POWER TRANSFORMER	PS	PRESSURE SWITCH
CR	CONTROL RELAY	PT	POTENTIAL TRANSFORMER
CRE	CORROSION-RESISTANT	PVC	POLYVINYL CHLORIDE CONDUIT
CRS	COATED RIGID STEEL CONDUIT		
CT	CURRENT TRANSFORMER	R	RED
		RCPT	RECEPTACLE
DC	DIRECT CURRENT	REQD	REQUIRED
DIV	DIVISION	RM	REMOTE MULTIPLEXER
		RS	RIGID STEEL CONDUIT
E	EMPTY	RT	REMOTE TELEMETRY
EO	ELECTRIC OPERATOR	RVNR	REDUCED VOLTAGE NON-REVERSING
EQPT	EQUIPMENT	RVR	REDUCED VOLTAGE REVERSING
ESS	EMERGENCY SHUTDOWN SWITCH		
ETM	ELAPSED TIME METER	SA	SURGE ARRESTOR
EXST	EXISTING	SCCR	SHORT CIRCUIT CURRENT RATING
FDR	FEEDER	S/N	SOLID NEUTRAL
F	FUSE	SPD	SPEED
FLR	FLOOR	SST	STAINLESS STEEL
FLUOR	FLUORESCENT	SV	SOLENOID VALVE
FVNR	FULL VOLTAGE NON-REVERSING	SW	SWITCH
FVR	FULL VOLTAGE REVERSING	SWBD	SWITCHBOARD
		T	THERMOSTAT
G	GREEN, GROUND	TB	TERMINAL BOARD
GALV	GALVANIZED	TC	TIME CLOSE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	TD	TEMPERATURE DETECTOR RELAY
GFR	GROUND FAULT RELAY	TDR	TIME DELAY RELAY
GND	GROUND	TJB	TERMINAL JUNCTION BOX
H	HIGH SPEED	T.O.	TIME OPEN
HH	HANDHOLE	TS	AUTO TRANSFORMER
HID	HIGH INTENSITY DISCHARGE	TSP	TEMPERATURE SWITCH
HPS	HIGH PRESSURE SODIUM	TST	TWISTED SHIELDED PAIR
HS	HAND SWITCH	TYP	TWISTED SHIELDED TRIAD TYPICAL
IC	INTERRUPTING CAPACITY	UH	UNIT HEATER
I & C	INSTRUMENTATION AND CONTROL	UVR	UNDER VOLTAGE RELAY
INCAND	INCANDESCENT	V	VOLTMETER, VOLT
INST	INSTANTANEOUS	VS	VOLTMETER SWITCH

ABBREVIATIONS	DESCRIPTION	ABBREVIATIONS	DESCRIPTION
J, J-BOX	JUNCTION BOX	W	WATT
K	KEY INTERLOCK	WHD	WATT HOUR DEMAND METER
L	LIGHTING CONTACTOR, LOW SPEED	WP	WEATHERPROOF
LOS	LOCKOUT STOP PUSH BUTTON	XFDR	TRANSPODER
LR	LATCHING RELAY	XFMR	TRANSFORMER
LT FLEX	LIQUID TIGHT FLEX CONDUIT		
LTS	LIGHTS		

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REV	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY:	C. CUSWORTH
DRAWN BY:	E. GARCIA
CHECKED BY:	J. LANDMAN
IN CHARGE:	P. RUDE
DATE:	12-22-2023

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GENERAL ELECTRICAL LEGEND 2

VERIFY SCALES	BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS.
DRAWING NO.	MPG-001-G-0602
SHT	9 OF 20

PRELIMINARY - NOT FOR CONSTRUCTION

ONE LINE PROTECTION RELAYING AND ELEMENTARY DIAGRAMS - 1

ONE LINE PROTECTION RELAYING AND ELEMENTARY DIAGRAMS - 2

GENERAL CIRCUIT CONDUCTOR AND CONDUIT IDENTIFICATION

SYMBOL	DESCRIPTION
51 or	DEVICE FUNCTION NUMBER INDICATED, SEE DEVICE TABLE
	CONTROL SWITCH TRIP
	CONTROL SWITCH CLOSE
43/CS	43 - DEVICE FUNCTION NUMBER, SEE DEVICE TABLE
	VOLTMETER SWITCH
	AMMETER SWITCH
	INDICATING LAMP - SWITCHBOARD TYPE INDICATING LAMP LENS COLORS INDICATED AS FOLLOWS: A - AMBER R - RED B - BLUE W - WHITE G - GREEN
	VOLTMETER
	AMMETER
	WATTMETER
	FREQUENCY METER
	POWER FACTOR METER
	WATT-HOUR METER
	ELAPSED TIME METER
	TACHOMETER
	WATTS TRANSDUCER
	POWER FACTOR TRANSDUCER
	TIME DELAY
	RELAY COIL, DEVICE FUNCTION NUMBER PER ANSI 37.2 - AMERICAN STANDARD MANUAL AND AUTOMATIC STATION CONTROL, SUPERVISORY AND ASSOCIATED TELEMETRY EQUIPMENT
	NORMALLY OPEN CONTACT
	NORMALLY CLOSED CONTACT
	REMOTE DEVICE
	TEST SWITCH CURRENT ELEMENT
	TEST SWITCH POTENTIAL ELEMENT
	NEUTRAL CONNECTION
	DIODE
	INSTRUMENTATION CABLE, SHIELDED
	NEUTRAL GROUNDING RESISTOR
	PHASE SHIFTING TRANSFORMER

DEVICE FUNCTION NO.	DEVICE DESCRIPTION
21	IMPEDANCE/DISTANCE RELAY
25A	AUTOMATIC SYNCHRONIZER
25C	SYNCH CHECK RELAY
27	UNDERVOLTAGE RELAY
32	REVERSE POWER RELAY
40	GENERATOR LOSS OF EXCITATION RELAY
43CSE	AUTOMATIC POWER TRANSFER AND LOAD CONTROL MODE SEL. SWITCH
43CSX	MODE SEL. SWITCH
46	GENERATOR CURRENT UNBALANCE RELAY
49	THERMAL RELAY
50GS	INSTANTANEOUS OVERCURRENT DEVICE, GROUND SENSOR
50	INSTANTANEOUS OVERCURRENT DEVICE,
51	TIME OVERCURRENT RELAY
51G	TIME OVERCURRENT RELAY, GROUND FAULT
51V	TIME OVERCURRENT, VOLTAGE RESTRAINED
52	POWER CIRCUIT BREAKER
52CSX	POWER CIRCUIT BREAKER CONTROL SWITCH
59	OVERVOLTAGE RELAY
60	VOLTAGE OR CURRENT BALANCE RELAY
65A	ENGINE GOVERNOR, SPEED CONTROL
65A, MOP	ENGINE GOVERNOR, SPEED CONTROL MOTOR OPERATED POTENTIOMETER
65A, RL	ENGINE GOVERNOR, SPEED CONTROL RAISE/LOWER SWITCH
65B	ENGINE GOVERNOR, LOAD CONTROL
65B, MOP	ENGINE GOVERNOR, LOAD CONTROL MOTOR OPERATED POTENTIOMETER
65B, RL	ENGINE GOVERNOR, % LOAD RAISE/LOWER SWITCH
65E	AUTOMATIC POWER TRANSFER AND LOAD CONTROL, WOODWARD APTL
65F	AUTOMATIC GENERATOR LOADING CONTROL, WOODWARD AGLC
67	DIRECTIONAL TIME OVERCURRENT RELAY
74	ALARM RELAY
810/U	FREQUENCY RELAY, OVER/UNDER
86	LOCKOUT RELAY
87	DIFFERENTIAL PROTECTIVE RELAY
90	VOLTAGE REGULATOR
90, MOP	ENGINE EXCITATION, POWER OPERATED POTENTIOMETER
90PF	ENGINE EXCITATION, POWER FACTOR CONTROL
90RL	ENGINE EXCITATION, RAISE/LOWER SWITCH

X = DEVICE NUMBER, WHEN THERE ARE MULTIPLE UNITS

POWER CIRCUIT CALLOUTS		MULTICONDUCTOR POWER CABLE CIRCUIT CALLOUTS	
[P1]	[1/2"FLEX, 2#12, #12G]	[P24]	[1"C, 3#8, 3#14, 1#10G]
[P2]	[3/4"C, 2#12, 1#12G]	[P25]	[1"C, 3#8, 4#14, 1#10G]
[P3]	[3/4"C, 3#12, 1#12G]	[P26]	[1"C, 3#8, 5#14, 1#10G]
[P4]	[3/4"C, 4#12, 1#12G]	[P27]	[1"C, 2#6, 1#10G]
[P5]	[3/4"C, 5#12, 1#12G]	[P28]	[1"C, 3#6, 1#8G]
[P6]	[3/4"C, 6#12, 1#12G]	[P29]	[1"C, 3#6, 2#14, 1#8G]
[P7]	[3/4"C, 7#12, 1#12G]	[P30]	[1 1/4"C, 3#6, 3#14, 1#8G]
[P8]	[3/4"C, 8#12, 1#12G]	[P31]	[1 1/4"C, 3#6, 4#14, 1#8G]
[P9]	[3/4"C, 3#12, 2#14, 1#12G]	[P32]	[1 1/4"C, 3#6, 5#14, 1#8G]
[P10]	[3/4"C, 3#12, 3#14, 1#12G]	[P33]	[1 1/4"C, 3#4, 1#8G]
[P11]	[3/4"C, 3#12, 4#14, 1#12G]	[P34]	[1 1/4"C, 3#4, 3#14, 1#8G]
[P12]	[3/4"C, 3#12, 5#14, 1#12G]	[P35]	[1 1/4"C, 3#4, 5#14, 1#8G]
[P13]	[3/4"C, 3#12, 6#14, 1#12G]	[P36]	[1 1/4"C, 3#3, 1#6G]
[P14]	[1"C, 3#12, 7#14, 1#12G]	[P37]	[1 1/4"C, 3#3, 3#14, 1#6G]
[P15]	[3/4"C, 2#10, 1#10G]	[P38]	[1 1/4"C, 3#2, 1#6G]
[P16]	[3/4"C, 3#10, 1#10G]	[P39]	[1 1/2"C, 3#1, 1#6G]
[P17]	[3/4"C, 3#10, 2#14, 1#10G]	[P40]	[2"C, 3#1, 3#14, 1#6G]
[P18]	[3/4"C, 3#10, 3#14, 1#10G]	[P41]	[2"C, 3#2/0, 1#4G]
[P19]	[3/4"C, 3#10, 4#14, 1#10G]	[P42]	[2"C, 3#3/0, 1#4G]
[P20]	[1"C, 3#10, 5#14, 1#10G]	[P43]	[2"C, 3#4/0, 1#3G]
[P21]	[1"C, 2#8, 1#10G]		
[P22]	[1"C, 3#8, 1#10G]		
[P23]	[1"C, 3#8, 2#14, 1#10G]		
ANALOG CIRCUIT CALLOUTS		CONTROL CIRCUIT CALLOUTS	
[A1]	[3/4"C, 1 TYPE 3]	[C1]	[3/4"C, MSC]
[A2]	[3/4"C, 2 TYPE 3]	[C2]	[3/4"C, 2#14, 1#14G]
[A3]	[1"C, 3 TYPE 3]	[C3]	[3/4"C, 3#14, 1#14G]
[A4]	[1 1/4"C, 4 TYPE 3]	[C4]	[3/4"C, 4#14, 1#14G]
[A5]	[1 1/4"C, 5 TYPE 3]	[C5]	[3/4"C, 5#14, 1#14G]
[A6]	[1 1/4"C, 6 TYPE 3]	[C6]	[3/4"C, 6#14, 1#14G]
[A7]	[1 1/2"C, 7 TYPE 3]	[C7]	[3/4"C, 7#14, 1#14G]
[A8]	[1 1/2"C, 8 TYPE 3]	[C8]	[3/4"C, 8#14, 1#14G]
[A9]	[1 1/2"C, 9 TYPE 3]	[C9]	[3/4"C, 9#14, 1#14G]
[A10]	[2"C, 10 TYPE 3]	[C10]	[3/4"C, 10#14, 1#14G]
[A11]	[2"C, 11 TYPE 3]	[C11]	[3/4"C, 11#14, 1#14G]
[A12]	[2"C, 12 TYPE 3]	[C12]	[3/4"C, 12#14, 1#14G]
[A13]	[2"C, 13 TYPE 3]	[C13]	[3/4"C, 13#14, 1#14G]
[A14]	[2"C, 14 TYPE 3]	[C14]	[1"C, 14#14, 1#14G]
[A15]	[3/4"C, 1 TYPE 4]	[C15]	[1"C, 15#14, 1#14G]
[A16]	[3/4"C, 2 TYPE 4]	[C16]	[1"C, 16#14, 1#14G]
[A17]	[1"C, 3 TYPE 4]	[C17]	[1"C, 17#14, 1#14G]
[A18]	[1 1/4"C, 4 TYPE 4]	[C18]	[1"C, 18#14, 1#14G]
[A19]	[1 1/4"C, 5 TYPE 4]	[C19]	[1"C, 19#14, 1#14G]
[A20]	[1 1/4"C, 6 TYPE 4]	[C20]	[1"C, 20#14, 1#14G]
[A21]	[1 1/2"C, 7 TYPE 4]	[C21]	[1"C, 21#14, 1#14G]
[A22]	[1 1/2"C, 8 TYPE 4]	[C22]	[1"C, 22#14, 1#14G]
[A23]	[2"C, 9 TYPE 4]	[C23]	[1"C, 23#14, 1#14G]
[A24]	[3/4"C, 1-4 pr. TYPE 5]	[C24]	[1 1/4"C, 24#14, 1#14G]
[A25]	[1"C, 2-4 pr. TYPE 5]	[C25]	[1 1/4"C, 25#14, 1#14G]
MULTICONDUCTOR CONTROL CABLE CIRCUIT CALLOUTS		[EC-1]	[3/4"C, WITH PULL STRING]
[CC3]	[3/4"C, 1-3C TYPE 1]	[EC-2]	[1"C, WITH PULL STRING]
[CC5]	[3/4"C, 1-5C TYPE 1]	[EC-3]	[1 1/4"C, WITH PULL STRING]
[CC7]	[3/4"C, 1-7C TYPE 1]	[EC-4]	[1 1/2"C, WITH PULL STRING]
[CC9]	[1"C, 1-9C TYPE 1]	[EC-5]	[2"C, WITH PULL STRING]
[CC12]	[1"C, 1-12C TYPE 1]	[EC-6]	[3"C, WITH PULL STRING]
[CC19]	[1 1/2"C, 1-19C TYPE 1]	[EC-7]	[4"C, WITH PULL STRING]
[CC25]	[1 1/2"C, 1-25C TYPE 1]	[EC-8]	[5"C, WITH PULL STRING]
[CC37]	[2"C, 1-37C TYPE 1]		
[CCC1]	[1-7C #12 TYPE 1]		

- NOTES:**
- FOR CABLE TYPES, SEE SPECIFICATIONS.
 - POWER CIRCUIT CALLOUTS ARE BASED ON THE AREA OF THW CONDUCTORS. CONTROL CIRCUIT CALLOUTS ARE BASED ON THE AREAS OF SCHEDULE 40 PVC CONDUIT AND TYPES XHHW & XHHW-2 INSULATION.
 - SIZING OF CONDUCTORS #14WG AND SMALLER BASED ON AMPACITIES AT 60 DEGREES C. SIZING OF CONDUCTORS #1/0AWG AND LARGER BASED ON AMPACITIES AT 75 DEGREES C.
 - WHERE CIRCUITS ARE UNDERGROUND, DIRECT BURIED OR CONCRETE ENCASED, MINIMUM CONDUIT SIZE SHALL BE 1".
 - FOR METRIC CONDUIT SIZES USE THE FOLLOWING CONVERSION:

Plot Date: 1/22/2023 8:16 AM File: C:\pwworking\hdr_sites_reservoir\dms01711\MPG-001-G-0603.dwg Saved By: RS033139

REV	DATE	BY	CHK	APPR.	DESCRIPTION

DESIGNED BY: C. CUSWORTH
 DRAWN BY: E. GARCIA
 CHECKED BY: J. LANDMAN
 IN CHARGE: P. RUDE
 DATE: 12-22-2023

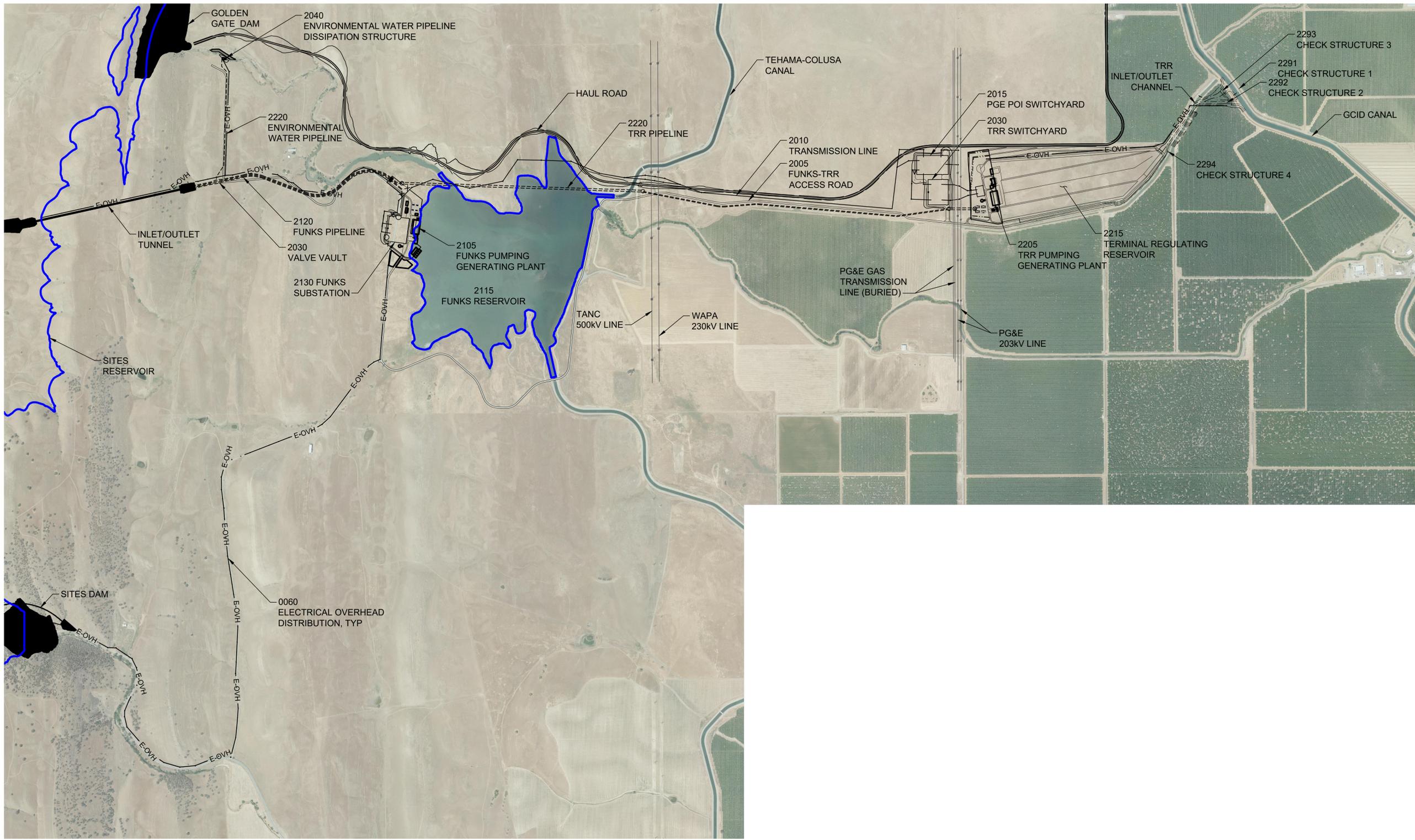
2525 AIRPARK DR
 REDDING, CA 96001
 (530) 243-5831

REGISTERED PROFESSIONAL ENGINEER
 CRAIG M. CUSWORTH
 19120 CALIFORNIA

SITES RESERVOIR
 MAXWELL / SITES PUMPING AND GENERATING
 GENERAL ELECTRICAL LEGEND 3

VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS.
 0 1"
 DRAWING NO. MPG-001-G-0603
 SHT 10 OF 20

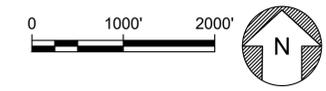
PRELIMINARY - NOT FOR CONSTRUCTION



GENERAL NOTES

1. AERIAL PHOTOGRAPHY WAS FLOWN ON MAY 13 AND 14, 2022 BY GEOTERRA, INC. AND WAS DELIVERED TO JACOBS IN SEPTEMBER 2022.
2. MAPPING WAS COMPILED BY R.E.Y. ENGINEERS, INC. FROM AERIAL LIDAR DATA, COLLECTED BY GEOTERRA, INC. ON FEBRUARY 8 AND 9, 2022, AND SUPPLEMENTAL GROUND SURVEY AND BATHYMETRY PERFORMED BY R.E.Y. ENGINEERS.
3. HORIZONTAL DATUM: 2011 REALIZATION OF THE NORTH AMERICAN DATUM OF 1983 (NAD83(2011)), EPOCH 2017.50. MAPPING PROJECTION IS US STATE PLANES COORDINATES, CALIFORNIA ZONE 2, SURVEY FEET.
4. VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), GEOID18.
5. SOURCE OF BATHYMETRY IN FUNKS RESERVOIR: R.E.Y. ENGINEERS, INC CONDUCTED THE BATHYMETRIC SURVEY IN SEPTEMBER OF 2020. DATA COLLECTION WAS BY EXTENDED RANGE-POLE WITH GPS RTK ROVER FROM A RAFT. DENSE VEGETATION IN THE RESERVOIR PREVENTED USE OF SONAR.
6. SITES PROJECT JOINT POWERS AUTHORITY GPS CONTROL NETWORK ESTABLISHED IN JANUARY 2023. RECORD OF SURVEY IS RECORDED WITH COLUSA COUNTY RECORDS, DOCUMENT NUMBER 2023-0001608 AND WAS FILED JUNE 27, 2023.

PLAN
HORIZ SCALE: 1" = 1000'



Plot Date: 12/15/2023 4:06 PM File: C:\pwworking\hdr_sites_reservoir\dms01741\MPG-0045-C-2001.dwg Saved By: AGORDEN

REV	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY:	B. CHELONIS
DRAWN BY:	B. CHELONIS
CHECKED BY:	W. OHLIN
IN CHARGE:	P. RUDE
DATE:	12-22-2023

JACOBS
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(530) 243-5831

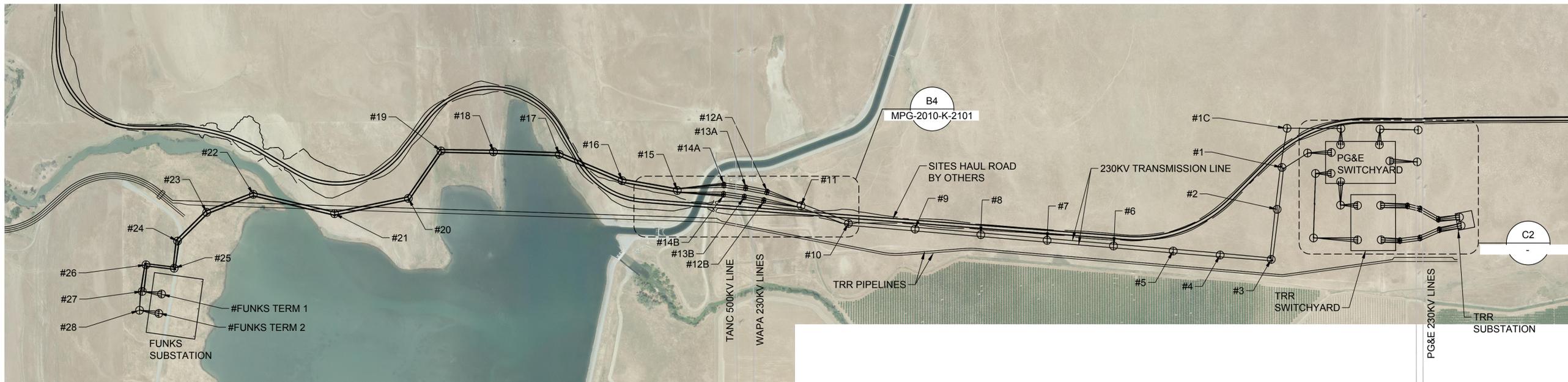
REGISTERED PROFESSIONAL ENGINEER
BECKY K CHELONIS
C 59851
CALIFORNIA



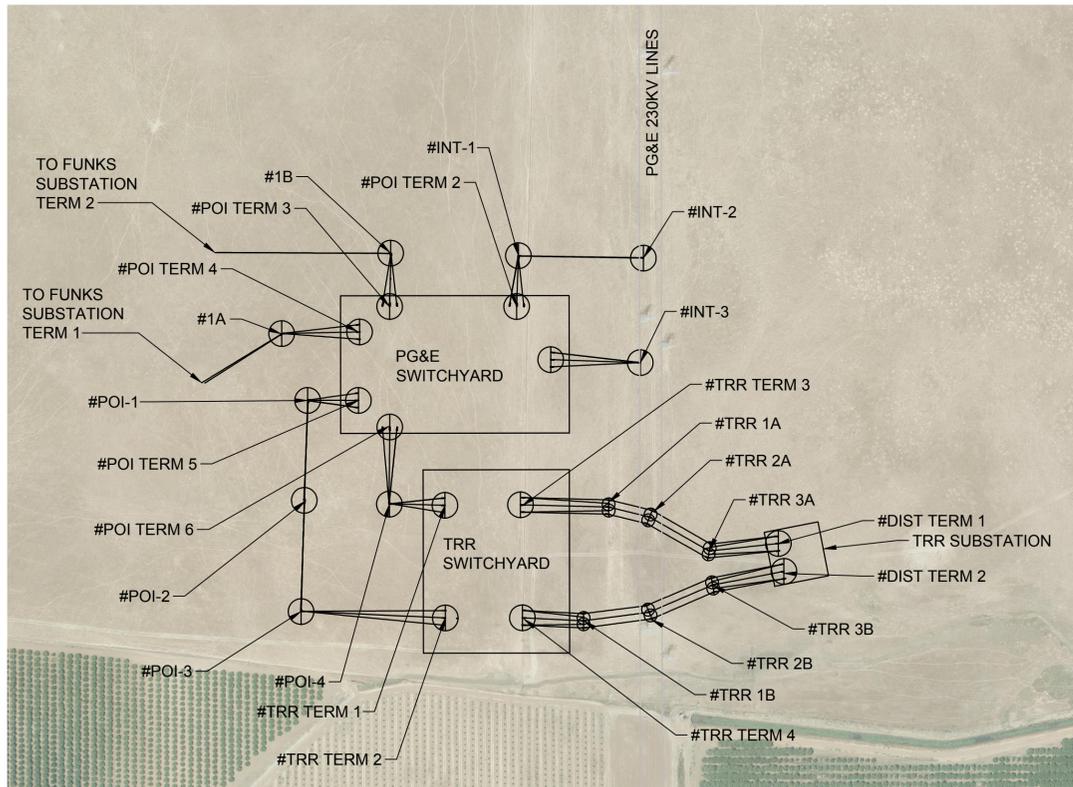
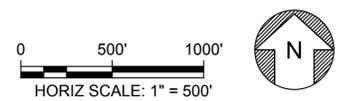
SITES RESERVOIR
MAXWELL / SITES PUMPING AND GENERATING
CIVIL
OVERALL LOCATION
AND SURVEY CONTROL
PLAN

VERIFY SCALES BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS. 0 1" 1"
DRAWING NO. MPG-0045-C-2001 SHT 11 OF 20

PRELIMINARY - NOT FOR CONSTRUCTION



SITES OVERALL PLAN VIEW
HORIZ SCALE: 1" = 500'



C2 ENLARGED PLAN
SCALE: 1" = 250'

STRUCTURE LIST

STR	TYPE	DRAWING	EST FND SIZE	STR	TYPE	DRAWING	EST FND SIZE
POI TERM 3	SINGLE CIRCUIT TERMINAL DEADEND	MPG-2010-K-5006	2-8'x25'	INT-2	SINGLE CIRCUIT STR	TBD	8'x25'
POI TERM 4	SINGLE CIRCUIT TERMINAL DEADEND	MPG-2010-K-5006	2-8'x25'	INT-1	SINGLE CIRCUIT DEADEND	MPG-2010-K-5005	8'x25'
1A	SINGLE CIRCUIT DEADEND	MPG-2010-K-5005	8'x25'	POI TERM 2	SINGLE CIRCUIT TERMINAL DEADEND	MPG-2010-K-5006	2-8'x25'
1B	SINGLE CIRCUIT DEADEND	MPG-2010-K-5005	8'x25'	INT-3	SINGLE CIRCUIT STR	TBD	8'x25'
1C	SINGLE CIRCUIT DEADEND	MPG-2010-K-5005	8'x25'	POI TERM 1	SINGLE CIRCUIT TERMINAL DEADEND	MPG-2010-K-5006	2-8'x25'
1	DOUBLE CIRCUIT DEADEND	MPG-2010-K-5001	11'x30'	POI TERM 5	SINGLE CIRCUIT TERMINAL DEADEND	MPG-2010-K-5006	2-8'x25'
2	DOUBLE CIRCUIT SUSPENSION	MPG-2010-K-5001	8'x26'	POI-1	SINGLE CIRCUIT DEADEND	MPG-2010-K-5005	8'x25'
3	DOUBLE CIRCUIT DEADEND	MPG-2010-K-5002	11'x30'	POI-2	SINGLE CIRCUIT DEADEND	MPG-2010-K-5005	8'x25'
4	DOUBLE CIRCUIT SUSPENSION	MPG-2010-K-5001	8'x26'	POI-3	SINGLE CIRCUIT DEADEND	MPG-2010-K-5005	8'x25'
5	DOUBLE CIRCUIT SUSPENSION	MPG-2010-K-5001	8'x26'	TRR TERM 1	SINGLE CIRCUIT TERMINAL DEADEND	MPG-2010-K-5006	2-8'x25'
6	DOUBLE CIRCUIT SUSPENSION	MPG-2010-K-5001	8'x26'	POI TERM 6	SINGLE CIRCUIT TERMINAL DEADEND	MPG-2010-K-5006	2-8'x25'
7	DOUBLE CIRCUIT SUSPENSION	MPG-2010-K-5001	8'x26'	POI-4	SINGLE CIRCUIT DEADEND	MPG-2010-K-5005	8'x25'
8	DOUBLE CIRCUIT SUSPENSION	MPG-2010-K-5001	8'x26'	TRR TERM 2	SINGLE CIRCUIT TERMINAL DEADEND	MPG-2010-K-5006	2-8'x25'
9	DOUBLE CIRCUIT SUSPENSION	MPG-2010-K-5001	8'x26'	TRR TERM 3	SINGLE CIRCUIT TERMINAL DEADEND	MPG-2010-K-5006	2-8'x25'
10	DOUBLE CIRCUIT DEADEND	MPG-2010-K-5002	11'x30'	TRR 1A	H-FRAME DEADEND	MPG-2010-K-5003	2-8'x22'
11	DOUBLE CIRCUIT DEADEND	MPG-2010-K-5002	11'x30'	TRR 2A	H-FRAME DEADEND NO SHIELDWIRE	MPG-2010-K-5004	2-8'x22'
12A	H-FRAME DEADEND	MPG-2010-K-5003	2-8'x22'	TRR 3A	H-FRAME DEADEND	MPG-2010-K-5003	2-8'x22'
12B	H-FRAME DEADEND	MPG-2010-K-5003	2-8'x22'	DIST TERM 1	SINGLE CIRCUIT TERMINAL DEADEND	MPG-2010-K-5006	2-8'x25'
13A	H-FRAME DEADEND NO SHIELDWIRE	MPG-2010-K-5004	2-8'x22'	TRR TERM 4	SINGLE CIRCUIT TERMINAL DEADEND	MPG-2010-K-5006	2-8'x25'
13B	H-FRAME DEADEND NO SHIELDWIRE	MPG-2010-K-5004	2-8'x22'	TRR 1B	H-FRAME DEADEND	MPG-2010-K-5003	2-8'x22'
14A	H-FRAME DEADEND	MPG-2010-K-5003	2-8'x22'	TRR 2B	H-FRAME DEADEND NO SHIELDWIRE	MPG-2010-K-5004	2-8'x22'
14B	H-FRAME DEADEND	MPG-2010-K-5003	2-8'x22'	TRR 3B	H-FRAME DEADEND	MPG-2010-K-5003	2-8'x22'
15	DOUBLE CIRCUIT DEADEND	MPG-2010-K-5002	11'x30'	DIST TERM 2	SINGLE CIRCUIT TERMINAL DEADEND	MPG-2010-K-5006	2-8'x25'
16	DOUBLE CIRCUIT DEADEND	MPG-2010-K-5002	11'x30'				
17	DOUBLE CIRCUIT DEADEND	MPG-2010-K-5002	11'x30'				
18	DOUBLE CIRCUIT DEADEND	MPG-2010-K-5002	11'x30'				
19	DOUBLE CIRCUIT DEADEND	MPG-2010-K-5002	11'x30'				
20	DOUBLE CIRCUIT DEADEND	MPG-2010-K-5002	11'x30'				
21	DOUBLE CIRCUIT DEADEND	MPG-2010-K-5002	11'x30'				
22	DOUBLE CIRCUIT DEADEND	MPG-2010-K-5002	11'x30'				
23	DOUBLE CIRCUIT DEADEND	MPG-2010-K-5002	11'x30'				
24	DOUBLE CIRCUIT DEADEND	MPG-2010-K-5002	11'x30'				
25	DOUBLE CIRCUIT DEADEND	MPG-2010-K-5002	11'x30'				
26	DOUBLE CIRCUIT DEADEND	MPG-2010-K-5002	11'x30'				
27	DOUBLE CIRCUIT DEADEND	MPG-2010-K-5002	11'x30'				
28	SINGLE CIRCUIT DEADEND	MPG-2010-K-5005	8'x25'				
FUNKS TERM 1	SINGLE CIRCUIT TERMINAL DEADEND	MPG-2010-K-5006	2-8'x25'				
FUNKS TERM 2	SINGLE CIRCUIT TERMINAL DEADEND	MPG-2010-K-5006	2-8'x25'				

GENERAL NOTES

SHEET KEY NOTES

KEY MAP

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS.
0 1"
DRAWING NO.
MPG-2010-K-2001
SHT 12 OF 20

Plot Date: 12/19/2023 9:55 AM
Saved By: CHUANG
File: C:\pwworking\hdi_sites_reservoir\hdi_sites_reservoir\dms01251\MPG-2010-K-2001.dwg

REV	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY:
E. GOLLANDS
DRAWN BY:
C. HUANG
CHECKED BY:
G. PEPI
IN CHARGE:
P. RUDE
DATE:
12-22-2023



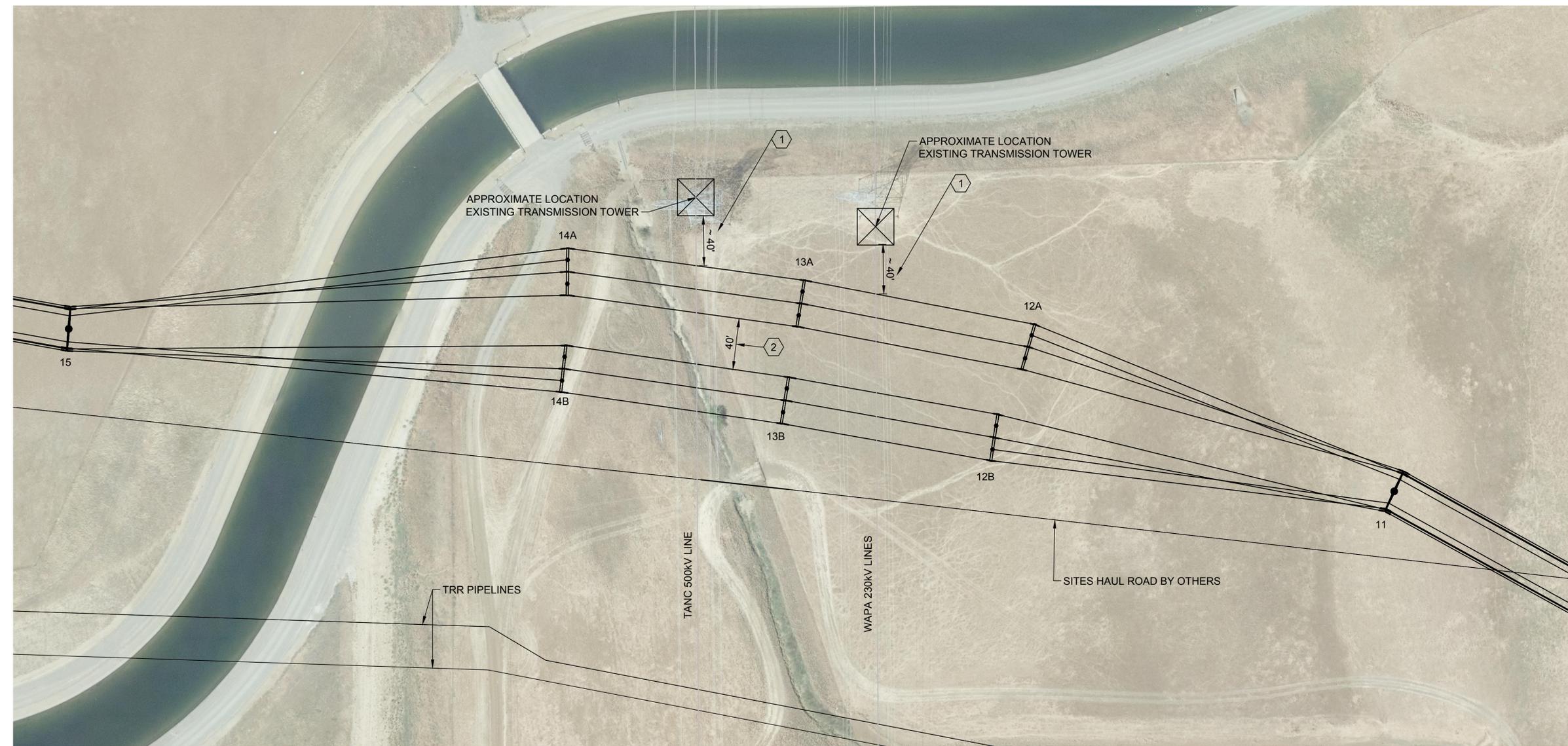
REGISTERED PROFESSIONAL ENGINEER
MANSOUR NESSABI
E 23322 CALIFORNIA



SITES RESERVOIR
MAXWELL / SITES PUMPING AND GENERATING TRANSMISSION
230 KV OVERALL PLAN

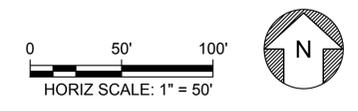
PRELIMINARY - NOT FOR CONSTRUCTION

GENERAL NOTES



- SHEET KEY NOTES**
1. APPROXIMATELY 40' FROM OUTSIDE PHASES TO TOWER
 2. 40' SEPARATION BETWEEN INSIDE PHASES

B4 230KV WAPA & TANC LINE CROSSING ENLARGED PLAN
 HORIZ SCALE: 1" = 50'
 MPG-2010-K-2001



KEY MAP



Plot Date: 12/19/2023 9:55 AM File: C:\pwworking\hdi_sites_reservoir\dms01251\MPG-2010-K-2101.dwg Saved By: CHUANG

REV	DATE	BY	CHK.	APPR.	DESCRIPTION

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 IN CHARGE: P. RUDE
 DATE: 12-22-2023



REGISTERED PROFESSIONAL ENGINEER
 MANSOUR NESSABI
 E 23322 CALIFORNIA

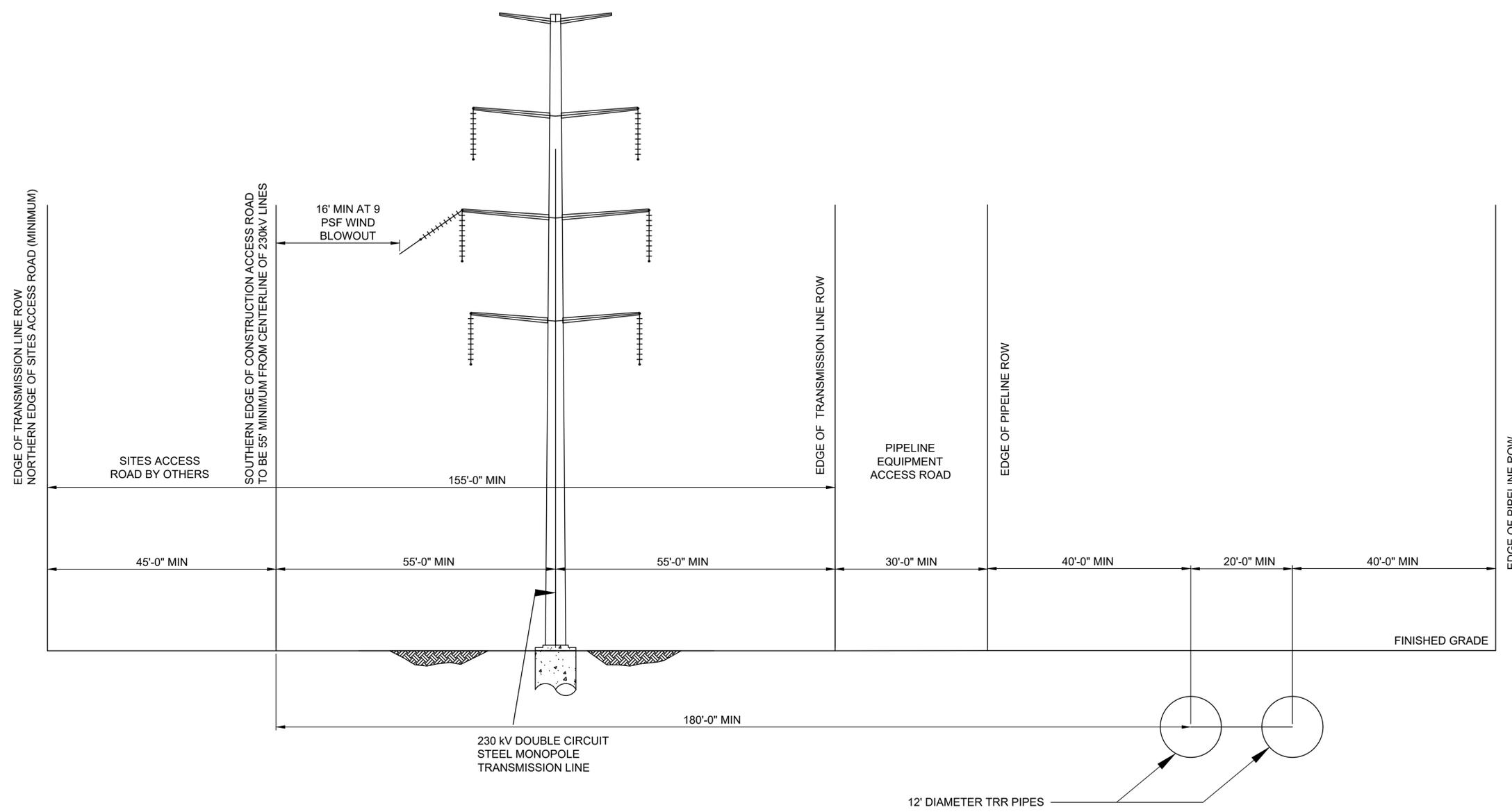


SITES RESERVOIR
 MAXWELL / SITES PUMPING AND GENERATING TRANSMISSION
 230 KV TANC/WAPA CROSSING PLAN

VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS
 0 1" 1"
 DRAWING NO.
 MPG-2010-K-2101
 SHT 13 OF 20

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GENERAL NOTES



SHEET KEY NOTES

KEY MAP



Plot Date: 12/21/2023 3:50 PM File: C:\pwworking\hdr_sites_reservoir\dms01251\MPG-2010-K-3001.dwg Saved By: DCAVE

REV	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: E. GOLLANDS
 DRAWN BY: C. HUANG
 CHECKED BY: G. PEPI
 IN CHARGE: P. RUDE
 DATE: 12-22-2023

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 (530) 243-5831

VANDERWEIL
 POWER GROUP
R.G. Vanderweil Engineers, LLP 817-423-7423 TEL
 714-444-0888 FAX
 Boston, MA 02210

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 MANSOUR NESSABI
 E 23322
 CALIFORNIA

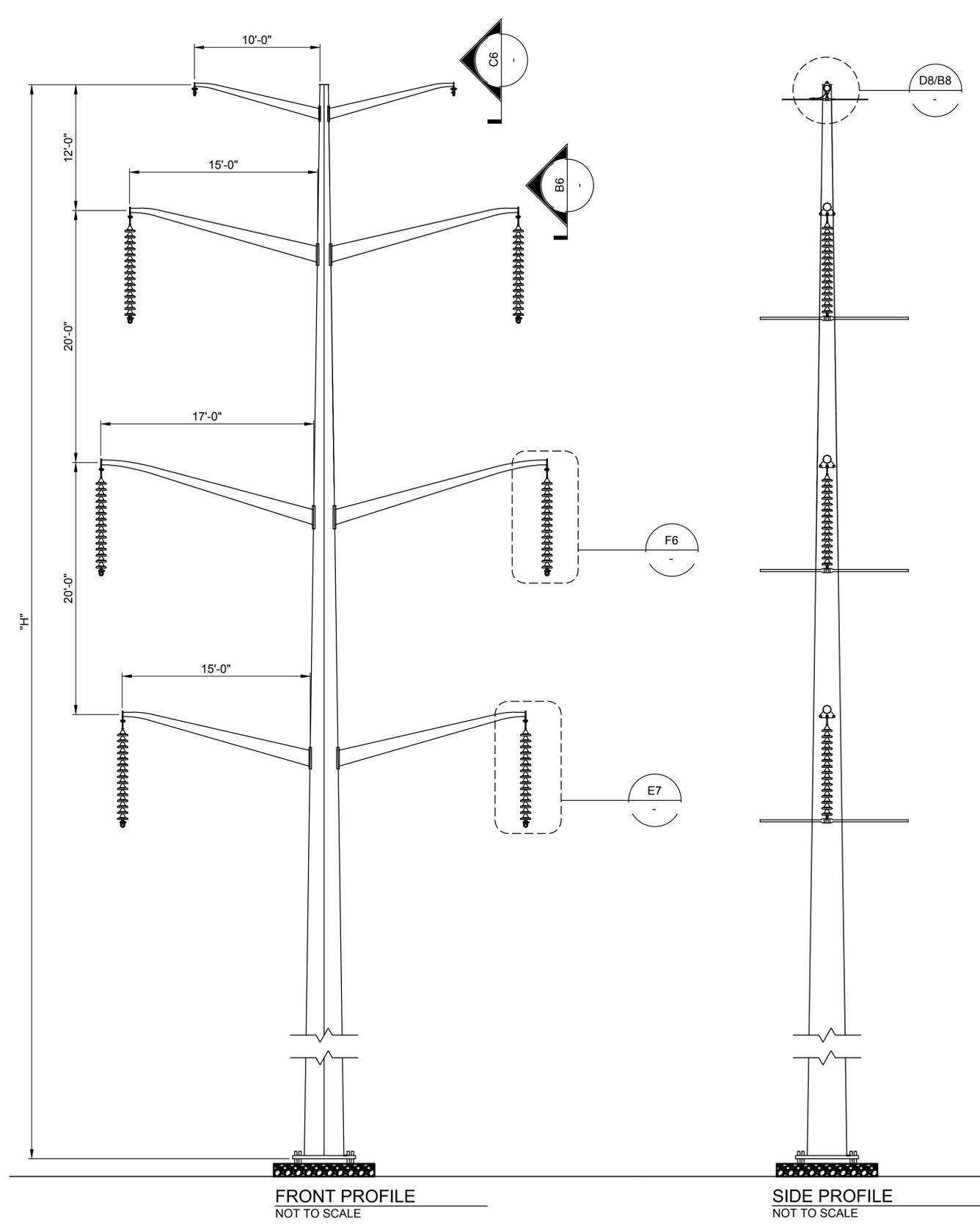


SITES RESERVOIR
 MAXWELL / SITES PUMPING AND GENERATING TRANSMISSION
 TRANSMISSION LINE SECTION
 BETWEEN FUNKS PGP AND TRR PGP

VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS
 0 1"

DRAWING NO.
 MPG-2010-K-3001
 SHT 14 OF 20

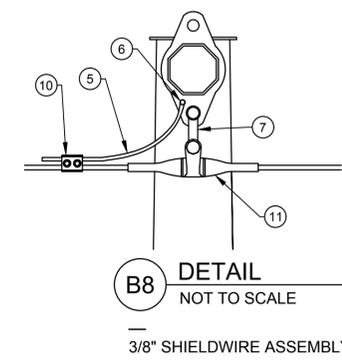
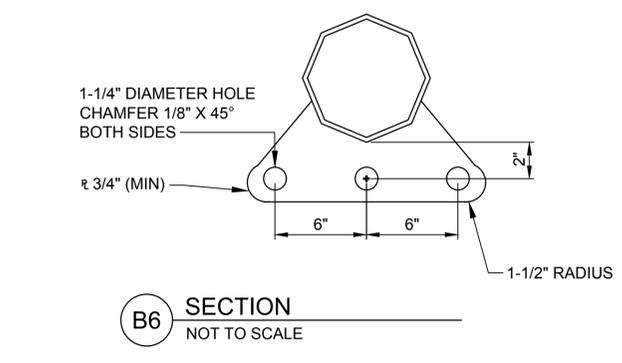
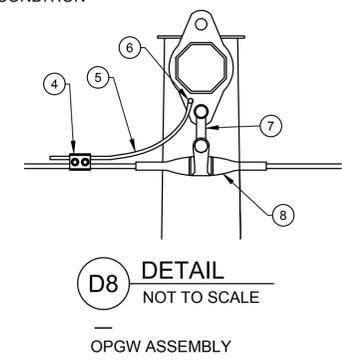
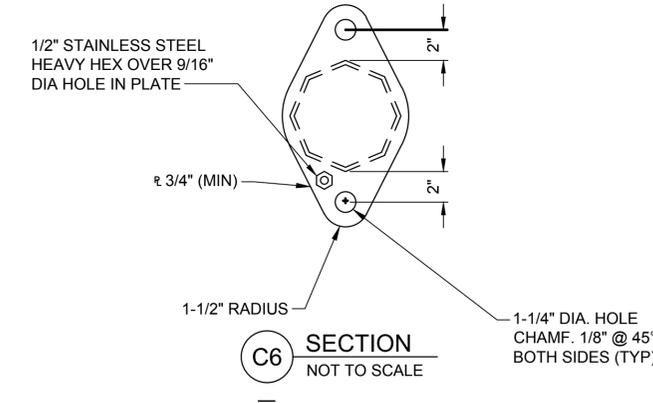
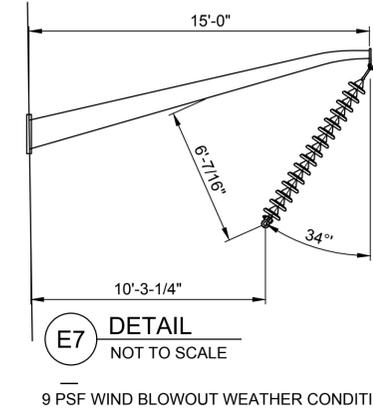
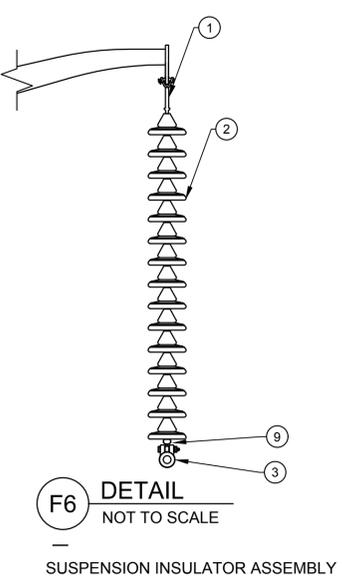
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MATERIAL LIST			
TAG	QTY	DESCRIPTION	PART CODE
1	6	CLEVIS BALL, HOT LINE Y	TBD
2	90	INSULATOR, DISC, 20K, GLASS	TBD
3	6	CLAMP, CGS UNIT FOR 795 ACSR "DRAKE"	TBD
4	1	CLAMP, PARALLEL GROOVE, OPGW	TBD
5	10	3/8" COMMON STEEL WIRE	TBD
6	2	LUG, GROUNDING	TBD
7	2	Y CLEVIS EYE	TBD
8	1	CLAMP, AGS WITH ROD, OPGW	TBD
9	6	SOCKET EYE	TBD
10	1	CLAMP, PARALLEL GROOVE, 3/8" STEEL	TBD
11	1	AGS, 3/8" EHS STEEL	TBD

GENERAL NOTES

- REFER TO WORK LIST FOR POLE HEIGHT "H" (LATER).
- FOR GROUNDING DETAILS SEE DOCUMENT 012566 "METHODS OF GROUNDING STEEL TRANSMISSION POLES AND TOWERS".
- FOR STRUCTURE NUMBERING AND SIGNAGE SEE DOCUMENT: TD-1008P-02 "OVERHEAD TRANSMISSION LINE NAMING AND LINE NUMBERING" TD-1008P-03 "NUMBERING AND MARKING OVERHEAD TRANSMISSION LINE STRUCTURES" TD-1009S "REQUIREMENTS FOR MARKING, GUARDING, AND STEPPING OF T&D TOWERS AND LATTICE STEEL POLES".



SHEET KEY NOTES

KEY MAP

Plot Date: 12/19/2023 9:58 AM
File: C:\pwworking\hdi_sites_reservoir\dms01251\MPG-2010-K-5001.dwg
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REV	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY:	E. GOLLANDS
DRAWN BY:	C. HUANG
CHECKED BY:	G. PEPI
IN CHARGE:	P. RUDE
DATE:	12-22-2023

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REGISTERED PROFESSIONAL ENGINEER
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E 23322
CALIFORNIA



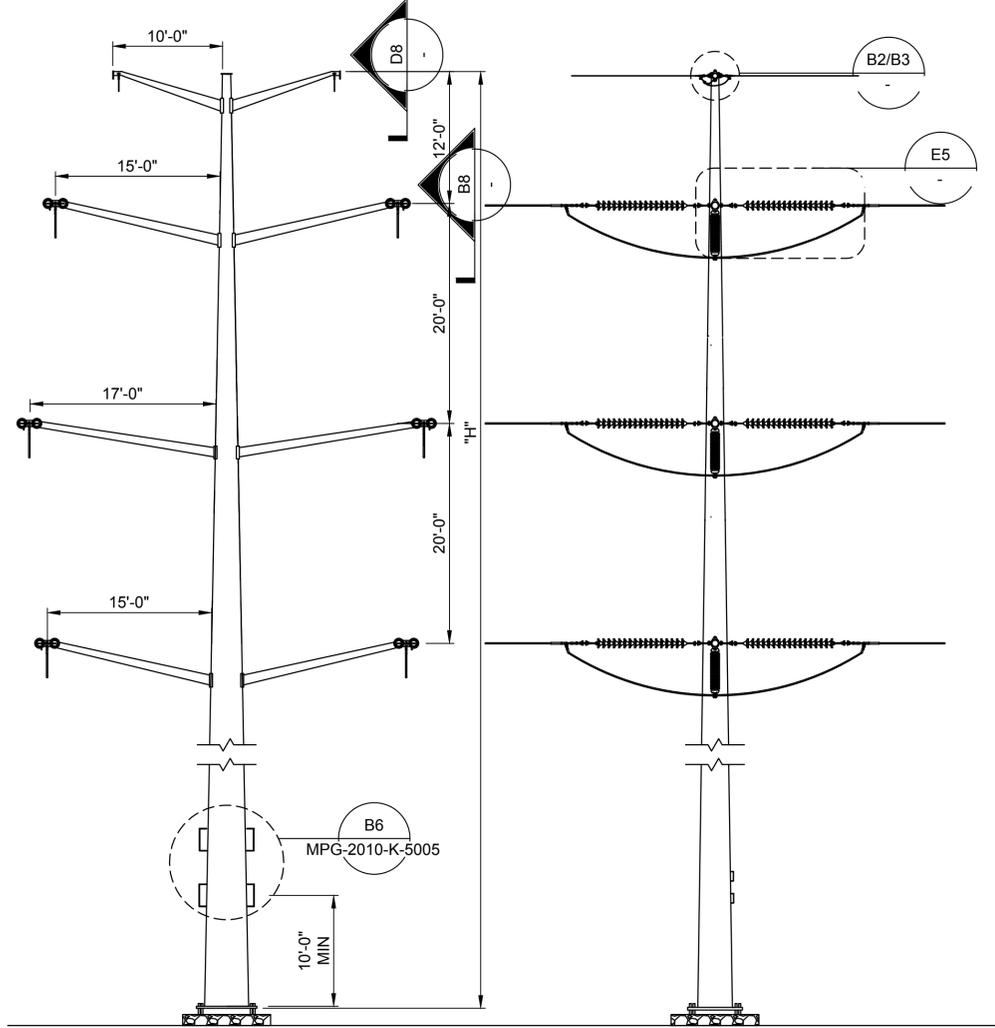
SITES RESERVOIR
MAXWELL / SITES PUMPING AND GENERATING TRANSMISSION
DOUBLE CIRCUIT SUSPENSION STRUCTURES 2, 4, 5, 6, 7, 8, & 9

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS

0 1"

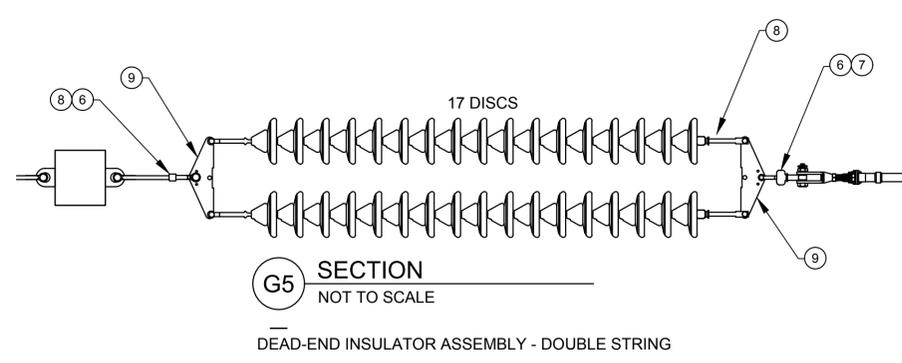
DRAWING NO.
MPG-2010-K-5001
SHT 15 OF 20

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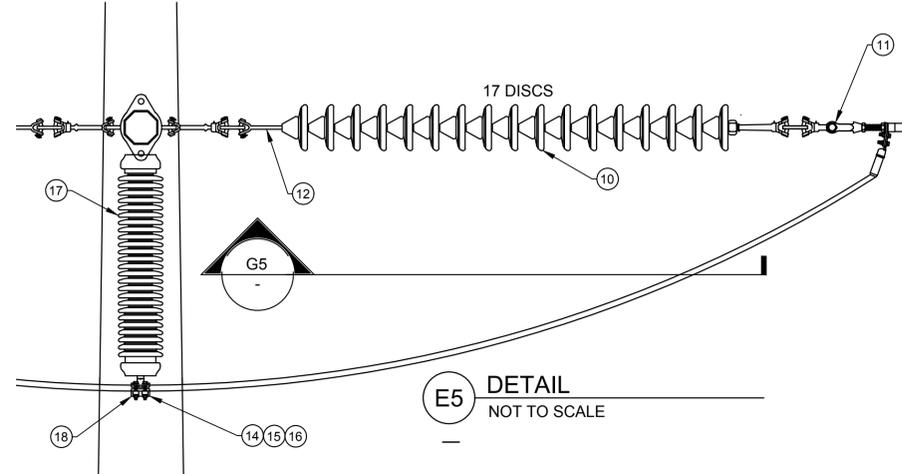


FRONT PROFILE
NOT TO SCALE

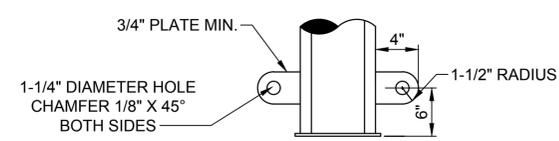
SIDE PROFILE
NOT TO SCALE



G5 SECTION
NOT TO SCALE
DEAD-END INSULATOR ASSEMBLY - DOUBLE STRING

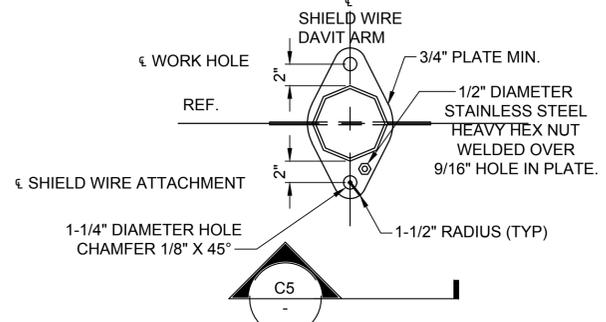


E5 DETAIL
NOT TO SCALE

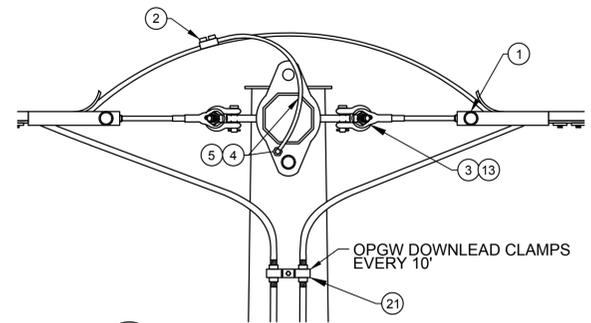


C5 SECTION
NOT TO SCALE
SHIELDWIRE DAVIT ARM

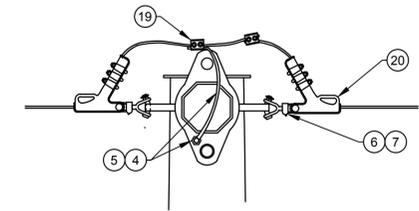
MATERIAL LIST			
TAG	QTY	DESCRIPTION	PART CODE
1	2	BOLTED DEAD-END ASSEMBLY, OPGW	TBD
2	2	CLAMP, PARALLEL GROOVE OPGW	TBD
3	2	Y-CLEVIS EYE EXTENSION LINK, 30K	TBD
4	10	WIRE, 3/8" EHS STEEL, COMMON GRADE	TBD
5	2	3/8" COMMON STEEL WIRE	TBD
6	26	CLEVIS BALL	TBD
7	14	SOCKET EYE	TBD
8	36	HOT LINE SOCKET CLEVIS	TBD
9	24	YOKE PLATE, 60K	TBD
10	408	INSULATOR, GLASS DISC, 30K	TBD
11	12	CLAMP, COMPRESSION ASSY, 795 ACSR "DRAKE"	TBD
12	24	HOT LINE Y-CLEVIS BALL	TBD
13	4	ANCHOR SHACKLE, 30K	TBD
14	24	BOLT, MACHINE, 5/8"x1"	TBD
15	24	WASHER, GALVANIZED, ROUND FOR 5/8" BOLT	TBD
16	24	WASHER< SPLIT ROUND 5/8"	TBD
17	6	INSULATOR, PORCELAIN STATION POST, 230KV	TBD
18	6	STATION POST CLAMP, SINGLE	TBD
19	2	CLAMP, PARALLEL GROOVE	TBD
20	2	BOLTED QUADRANT CLAMP, GALVANIZED, 0.20"-0.55"	TBD
21	AS REQD.	OPGW DOWNLEAD CLAMP	TBD



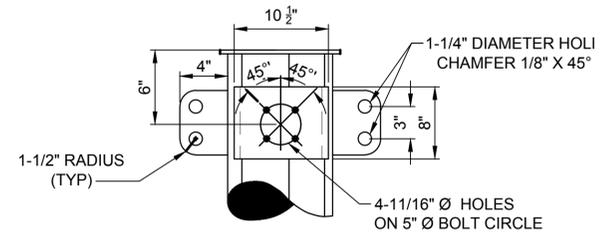
D8 SECTION
NOT TO SCALE
SHIELD WIRE ATTACHMENT PLATES WITH GROUNDING NUTS TYPICAL 2 LOCATIONS



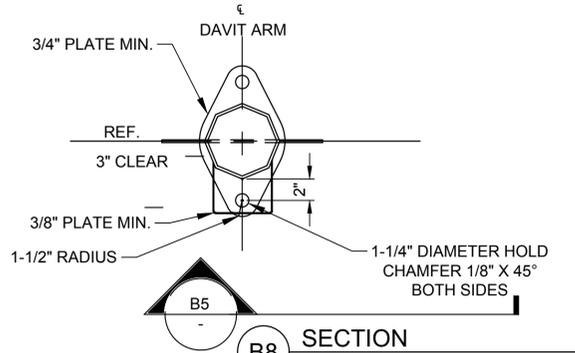
B2 DETAIL
NOT TO SCALE
OPGW DEAD-END ASSEMBLY
NOTE: SPLICE STRUCTURES TO BE DETERMINED. DOWNLEAD BRACKETS TO BE INSTALLED EVERY 10'



B3 DETAIL
NOT TO SCALE
3/8" SHIELDWIRE DEAD-END ASSEMBLY



B5 SECTION
NOT TO SCALE
CONDUCTOR ATTACHMENT PLATES TYPICAL 6 LOCATIONS



B8 SECTION
NOT TO SCALE
CONDUCTOR ATTACHMENT PLATES TYPICAL 6 LOCATIONS

GENERAL NOTES

- REFER TO WORK LIST FOR POLE HEIGHT "H" (LATER).
- SEE DRAWING MPG-2010-K-5001 FOR GROUNDING, NUMBERING, AND SIGNAGE STANDARDS.

SHEET KEY NOTES

KEY MAP

Plot Date: 12/19/2023 10:02 AM File: C:\pwworking\hdr_sites_reservoir\hms0125\MPG-2010-K-5002.dwg Saved By: CHUANG

REV	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: E. GOLLANDS
 DRAWN BY: C. HUANG
 CHECKED BY: G. PEPI
 IN CHARGE: P. RUDE
 DATE: 12-22-2023

Jacobs
 2525 AIRPARK DR
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 (530) 243-5831

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 POWER GROUP
R.G. Vanderweil Engineers, LLP 817-223-7423 TEL
 714 Veterans Drive
 Boston, MA 02210

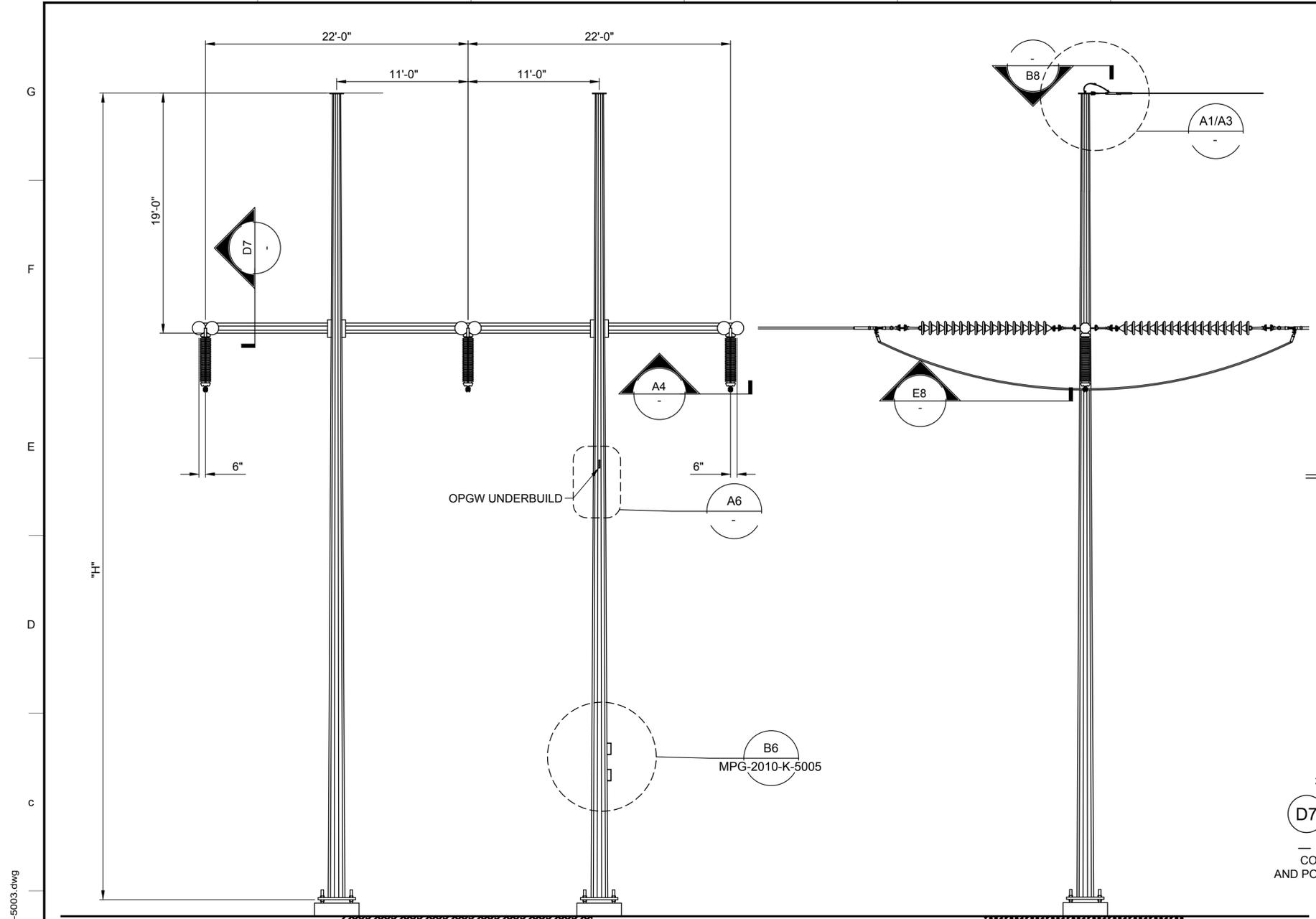
REGISTERED PROFESSIONAL ENGINEER
 MANSOUR NESSABI
 E 23322
 CALIFORNIA



SITES RESERVOIR
 MAXWELL / SITES PUMPING AND GENERATING TRANSMISSION
 DOUBLE CIRCUIT DEADEND STRUCTURES 1, 3, 10, 11, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, & 27

VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS
 0 1"
 DRAWING NO. MPG-2010-K-5002
 SHT 16 OF 20

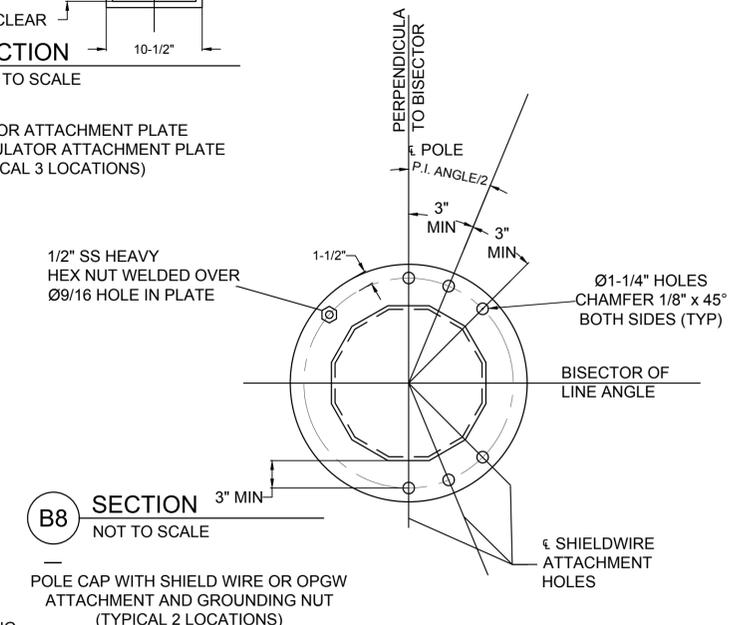
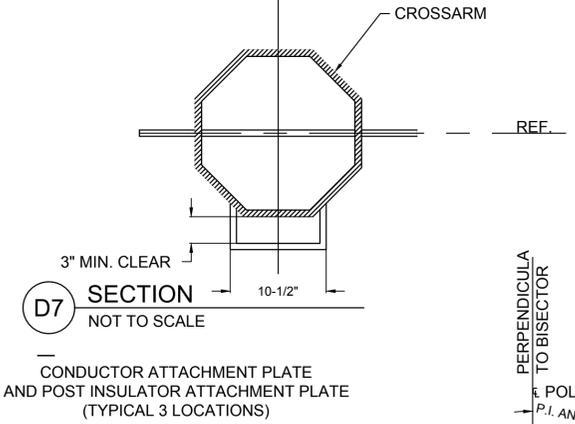
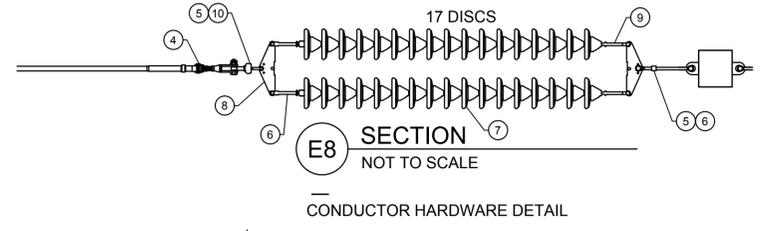
PRELIMINARY - NOT FOR CONSTRUCTION



MATERIAL LIST			
TAG	QTY	DESCRIPTION	PART CODE
1	2	Y-CLEVIS EYE EXTENSION LINK, 30K	TBD
2	1	ANCHOR SHACKLE, 30K	TBD
3	25	WIRE, 3/8" STEEL, COMMON GRADE	TBD
4	6	CLAMP, COMPRESSION ASSY, 795 ACSR "DRAKE"	TBD
5	12	CLEVIS BALL	TBD
6	18	HOT LINE SOCKET CLEVIS	TBD
7	204	INSULATOR DISC, GLASS, 30K	TBD
8	12	YOKE PLATE, 60K	TBD
9	12	HOT LINE Y-CLEVIS BALL	TBD
10	6	SOCKET EYE	TBD
11	1	AGS, 3/8" EHS STEEL	TBD
12	2	BOLTED DEAD-END ASSEMBLY, OPGW	TBD
13	1	GROUNDING LUG	TBD
14	1	QUADRANT CLAMP, GALV.	TBD
15	1	PARALLEL GROOVE CLAMP 3/8" STEEL	TBD
16	1	CLAMP, PARALLEL GROOVE OPGW	TBD
17	AS REQD.	OPGW DOWNLEAD CLAMP	TBD

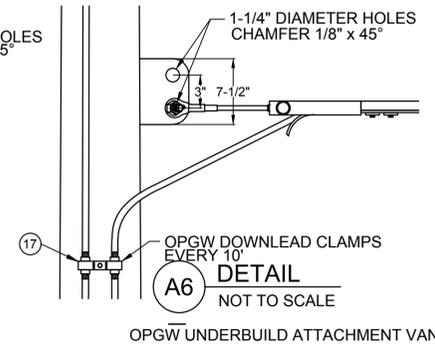
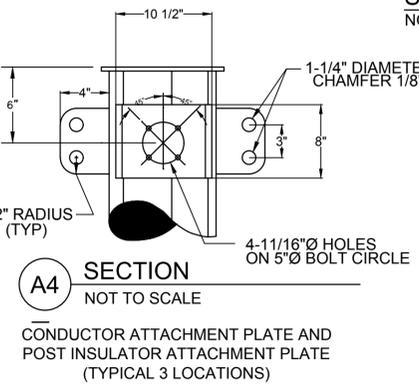
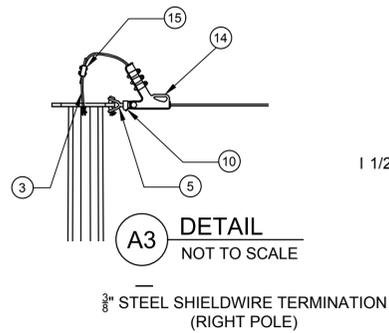
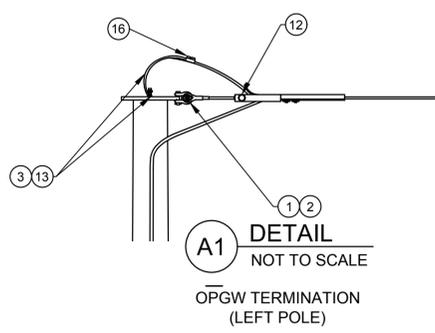
GENERAL NOTES

- REFER TO WORK LIST FOR POLE HEIGHT "H" (LATER).
- SEE DRAWING MPG-2010-K-5001 FOR GROUNDING, NUMBERING, AND SIGNAGE STANDARDS.



FRONT PROFILE
NOT TO SCALE

SIDE PROFILE
NOT TO SCALE



SHEET KEY NOTES

KEY MAP

Plot Date: 12/19/2023 10:03 AM File: C:\pwworking\hdt_sites_reservoir\hdt_sites_reservoir\dms01251\MPG-2010-K-5005.dwg Saved By: CHUANG

REV	DATE	BY	CHK.	APPR.	DESCRIPTION

DESIGNED BY: E. GOLLANDS
 DRAWN BY: C. HUANG
 CHECKED BY: G. PEPI
 IN CHARGE: P. RUDE
 DATE: 12-22-2023

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 REDDING, CA 96001
 (530) 243-5831

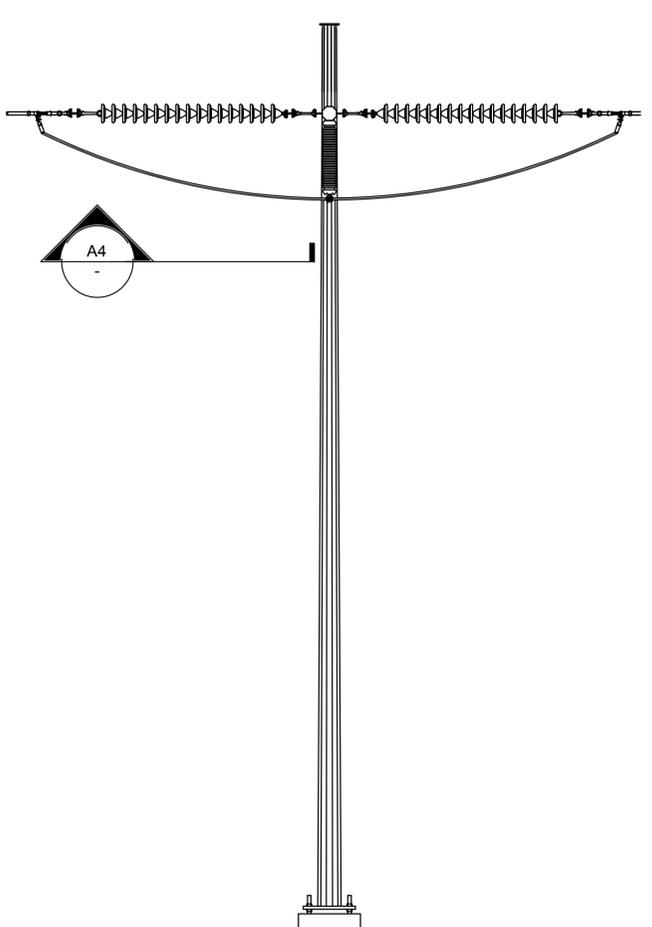
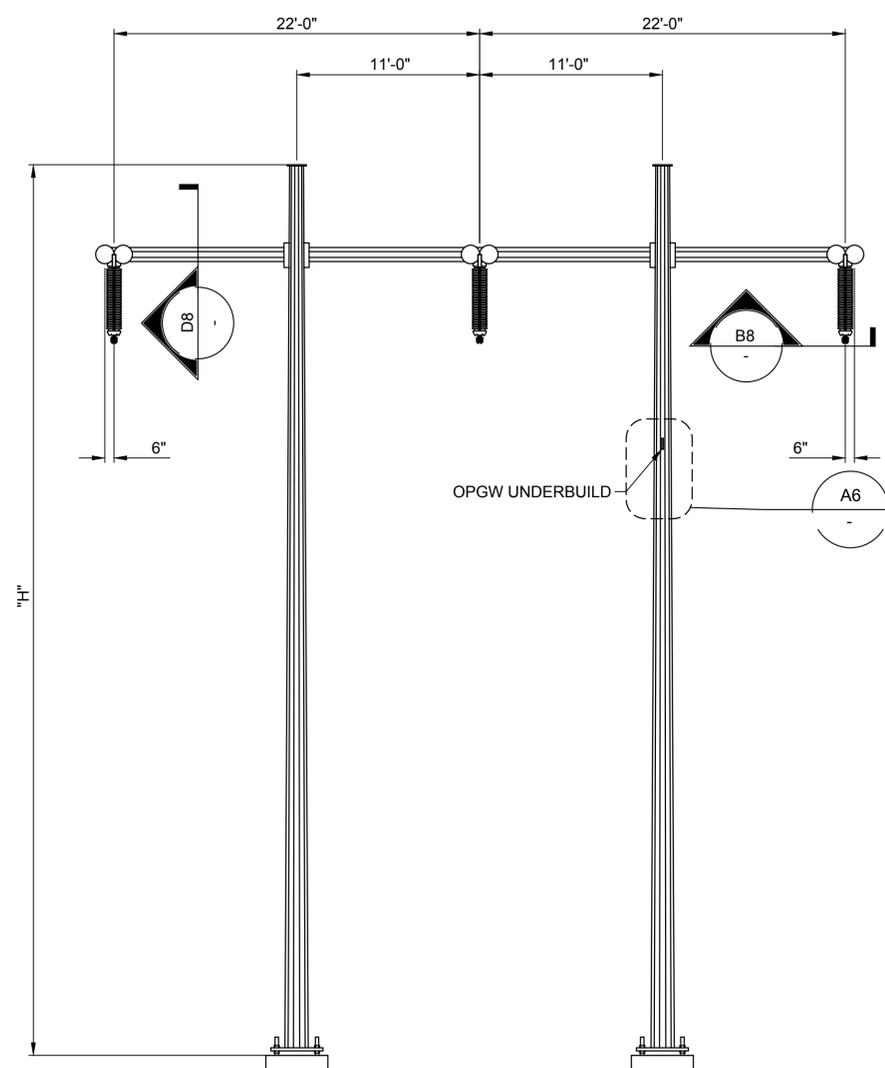
VANDERWEIL
 POWER GROUP
 P.O. Box 100
 Redding, MA 02270

REGISTERED PROFESSIONAL ENGINEER
 MANSOUR NESSABI
 E 23322
 CALIFORNIA

SITES RESERVOIR
 MAXWELL / SITES PUMPING AND GENERATING TRANSMISSION
 SINGLE CIRCUIT H-FRAME DEADEND STRUCTURES 12A, 12B, 14A, 14B, TRR 1A, TRR 3A, TRR 1B & TRR 3B

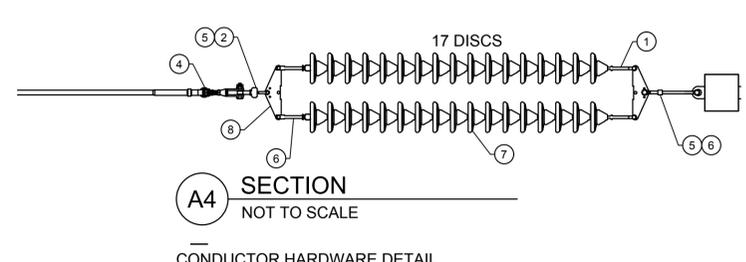
VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS
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 DRAWING NO. MPG-2010-K-5003
 SHT 17 OF 20

PRELIMINARY - NOT FOR CONSTRUCTION



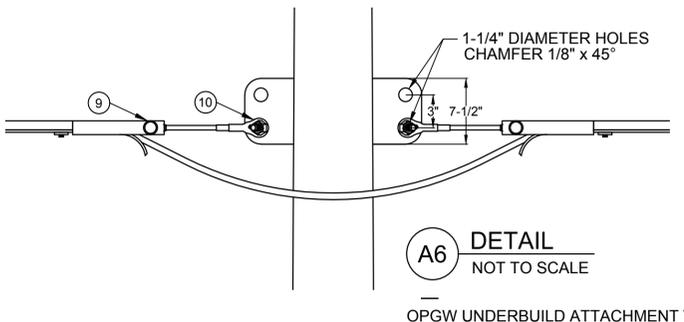
FRONT PROFILE
NOT TO SCALE

SIDE PROFILE
NOT TO SCALE



A4 SECTION
NOT TO SCALE

CONDUCTOR HARDWARE DETAIL



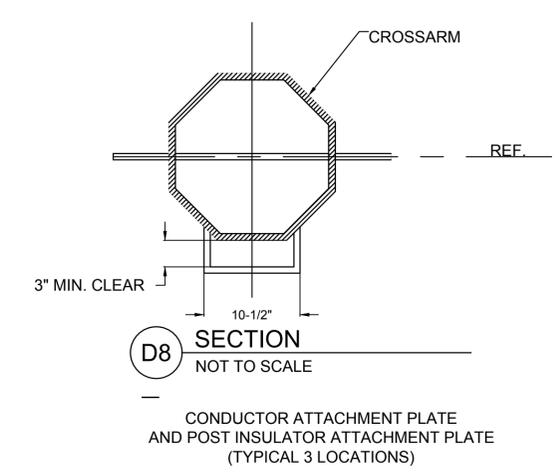
A6 DETAIL
NOT TO SCALE

OPGW UNDERBUILD ATTACHMENT VANG

MATERIAL LIST			
TAG	QTY	DESCRIPTION	PART CODE
1	12	HOT LINE Y-CLEVIS BALL	TBD
2	6	SOCKET EYE	TBD
3	25	WIRE, 3/8" STEEL, COMMON GRADE	TBD
4	6	CLAMP, COMPRESSION ASSY, 795 ACSR "DRAKE"	TBD
5	12	CLEVIS BALL	TBD
6	18	HOT LINE SOCKET CLEVIS	TBD
7	204	INSULATOR DISC, GLASS, 30K	TBD
8	12	YOKE PLATE, 60K	TBD
9	2	BOLTED DEAD-END ASSEMBLY, OPGW	TBD
10	2	Y-CLEVIS EYE EXTENSION LINK, 30K	TBD

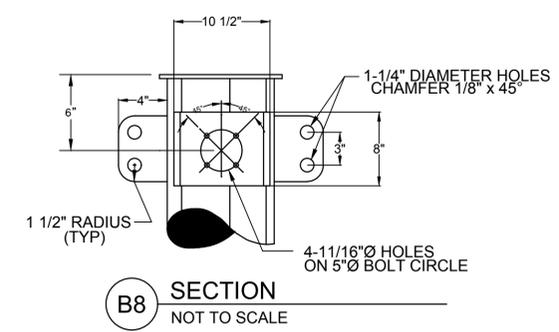
GENERAL NOTES

- REFER TO WORK LIST FOR POLE HEIGHT "H" (LATER).
- SEE DRAWING MPG-2010-K-5001 FOR GROUNDING, NUMBERING, AND SIGNAGE STANDARDS.



D8 SECTION
NOT TO SCALE

CONDUCTOR ATTACHMENT PLATE AND POST INSULATOR ATTACHMENT PLATE (TYPICAL 3 LOCATIONS)



B8 SECTION
NOT TO SCALE

CONDUCTOR ATTACHMENT PLATE AND POST INSULATOR ATTACHMENT PLATE (TYPICAL 3 LOCATIONS)

SHEET KEY NOTES

KEY MAP

Plot Date: 12/19/2023 10:04 AM File: C:\pwworking\hdi_sites_reservoir\hdi_sites_reservoir\dms01251\MPG-2010-K-5004.dwg Saved By: CHUANG

REV	DATE	BY	CHK	APPR.	DESCRIPTION

DESIGNED BY: E. GOLLANDS
 DRAWN BY: C. HUANG
 CHECKED BY: G. PEPI
 IN CHARGE: P. RUDE
 DATE: 12-22-2023

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 R.G. Vanderweil Engineers, LLP
 174 Adams Street
 Boston, MA 02210

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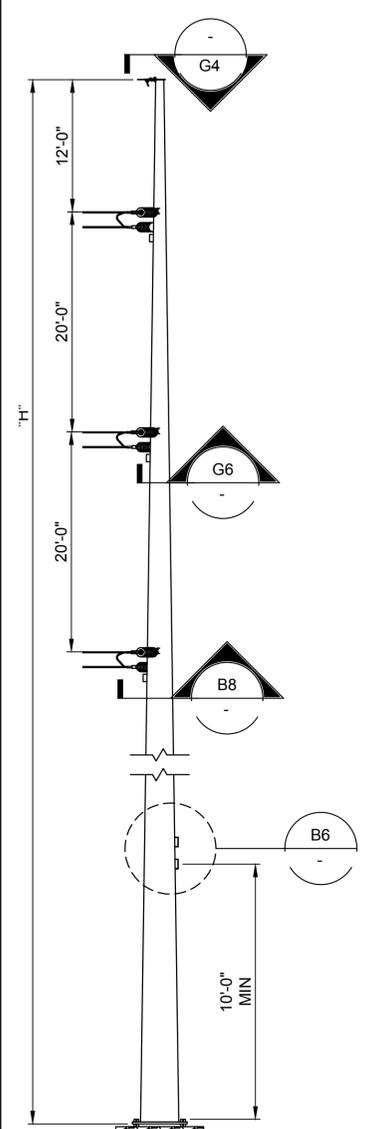
SITES RESERVOIR
 MAXWELL / SITES PUMPING AND GENERATING TRANSMISSION
 SINGLE CIRCUIT H-FRAME DEADEND
 NO SHIELDWIRE
 STRUCTURES 13A, 13B, TRR 2A & TRR 2B

VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS
 0 1"

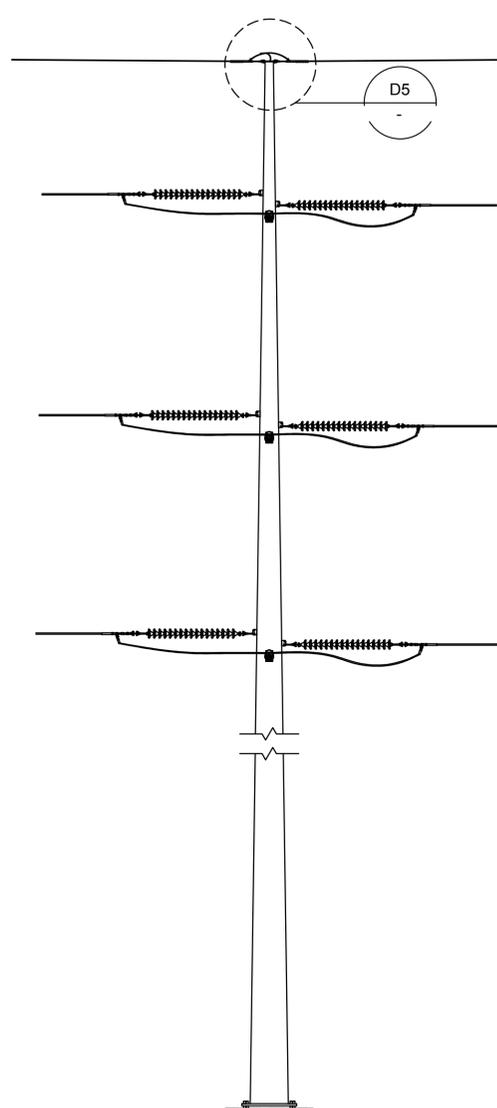
DRAWING NO.
 MPG-2010-K-5004
 SHT 18 OF 20

PRELIMINARY - NOT FOR CONSTRUCTION

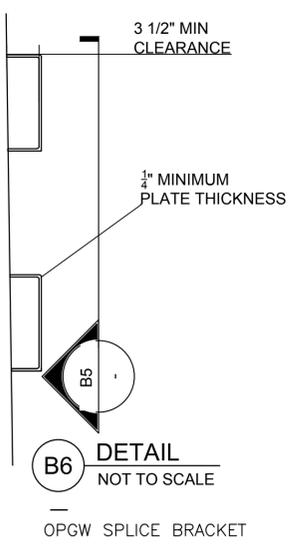
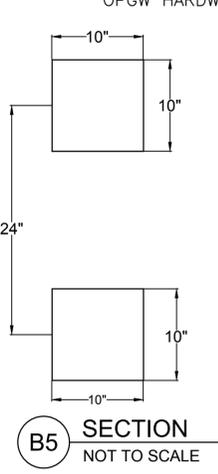
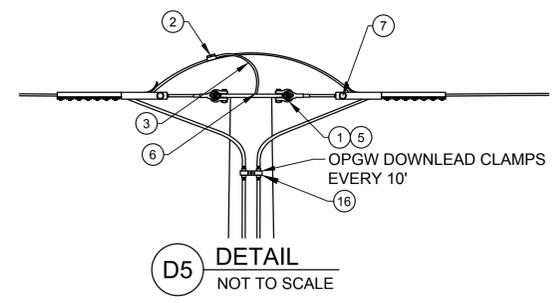
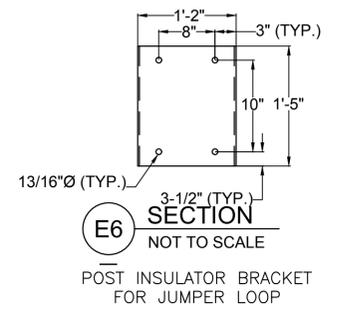
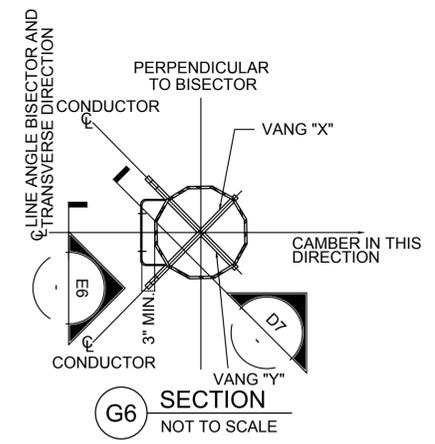
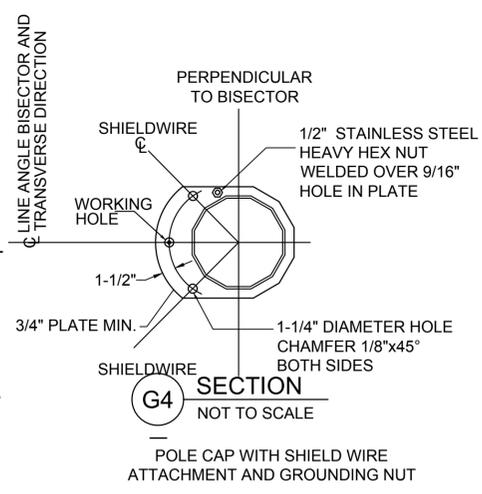
G
F
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C
B
A



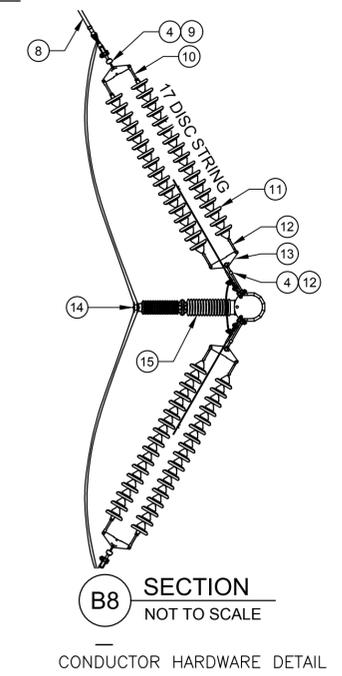
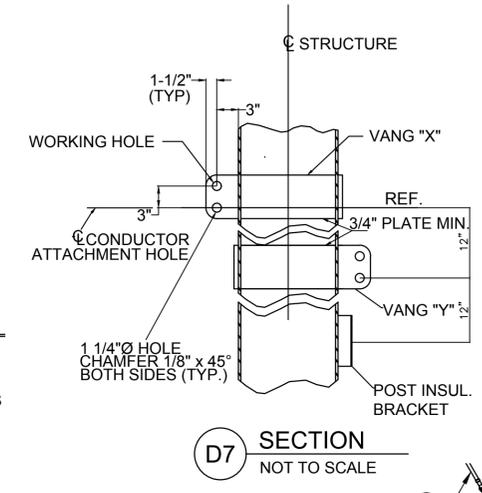
FRONT PROFILE
NOT TO SCALE



SIDE PROFILE
NOT TO SCALE



MATERIAL LIST			
TAG	QTY	DESCRIPTION	PART CODE
1	2	ANCHOR SHACKLE, 30K	TBD
2	1	CLAMP, PARALLEL GROOVE OPGW	TBD
3	15	WIRE, 3/8" STEEL, COMMON GRADE	TBD
4	12	CLEVIS BALL	TBD
5	2	Y-CLEVIS EYE EXTENSION LINK, 30K	TBD
6	1	GROUNDING LUG	TBD
7	2	CLAMP, BOLTED DEAD-END, OPGW	TBD
8	6	CLAMP, COMPRESSION ASSY, 795 ACSR "DRAKE"	TBD
9	6	SOCKET EYE	TBD
10	12	HOT LINE Y-CLEVIS BALL	TBD
11	204	INSULATOR DISC, GLASS, 30K	TBD
12	18	HOT LINE SOCKET CLEVIS	TBD
13	12	YOKE PLATE, 60K	TBD
14	3	CLAMP, TRUNION FOR 1" TO 1.5" ALUM	TBD
15	3	INSULATOR, PORCELAIN LINE POST, TWO PIECES	TBD
16	AS REQD	OPGW DOWNLOAD CLAMP	TBD



GENERAL NOTES

- REFER TO WORK LIST FOR POLE HEIGHT "H" (LATER).
- SEE DRAWING MPG-2010-K-5001 FOR GROUNDING, NUMBERING, AND SIGNAGE STANDARDS.

SHEET KEY NOTES



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Saved By: CHUANG

REV	DATE	BY	CHK	APPR.	DESCRIPTION

DESIGNED BY: E. GOLLANDS
DRAWN BY: C. HUANG
CHECKED BY: G. PEPI
IN CHARGE: P. RUDE
DATE: 12-22-2023



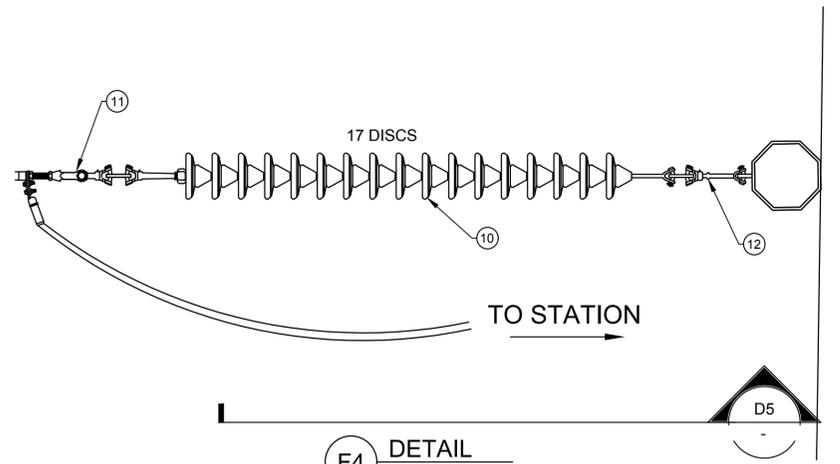
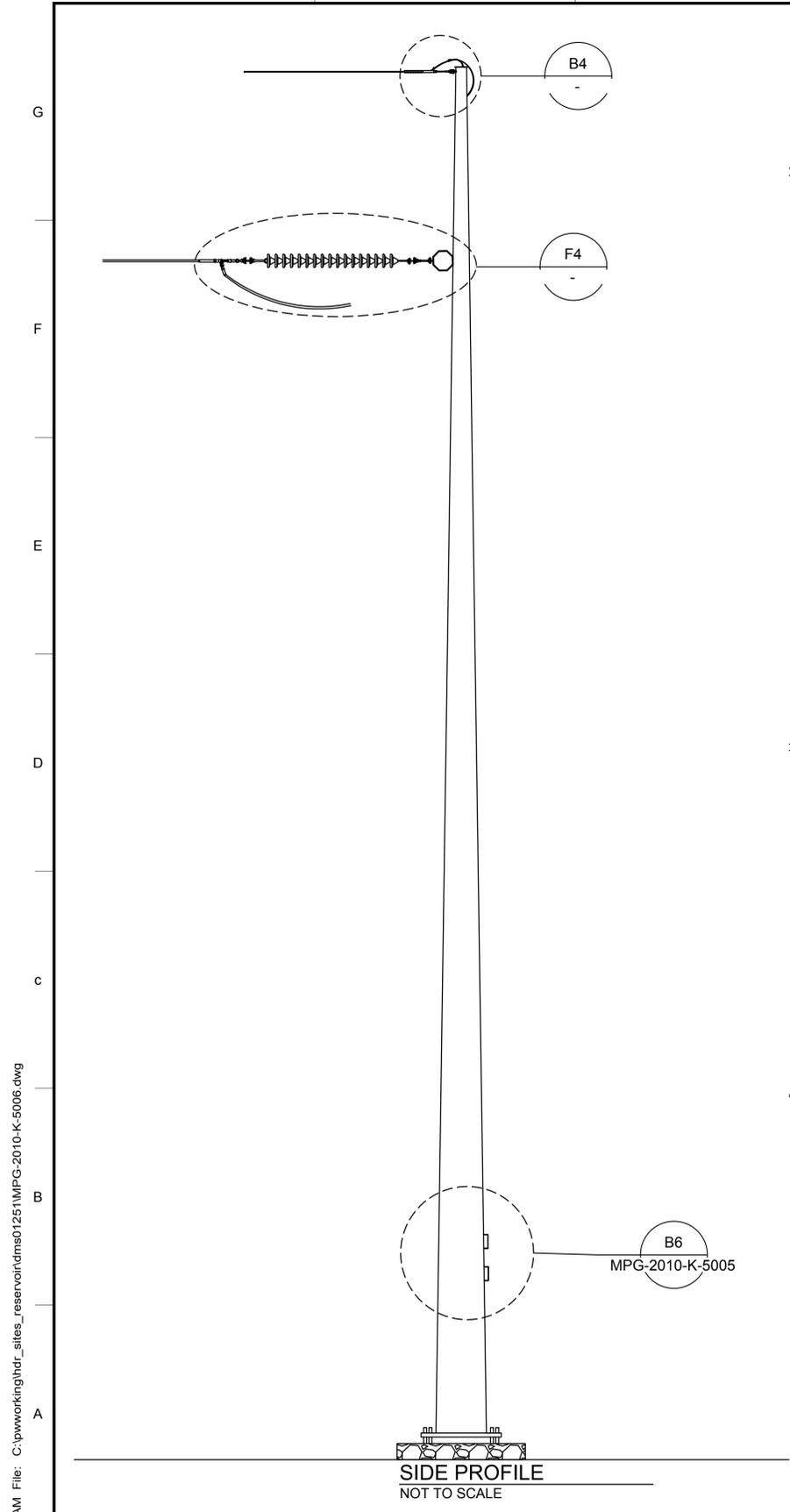
REGISTERED PROFESSIONAL ENGINEER
MANSOUR NESSABI
E 23322
CALIFORNIA



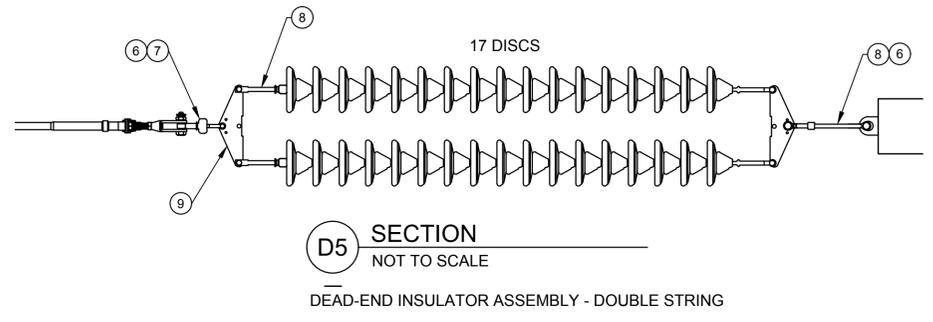
SITES RESERVOIR
MAXWELL / SITES PUMPING AND GENERATING TRANSMISSION
SINGLE CIRCUIT DEADEND PULL-OFF STRUCTURES 1A, 1B, 1C, 28, INT-1, POI-1, POI-2, POI-3 & POI-4

VERIFY SCALES
BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS
DRAWING NO. MPG-2010-K-5005
SHT 19 OF 20

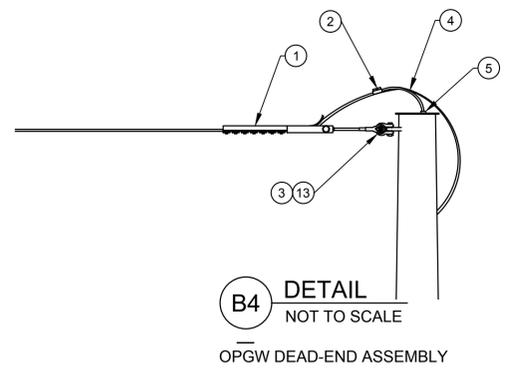
PRELIMINARY - NOT FOR CONSTRUCTION



F4 DETAIL
NOT TO SCALE
DEAD-END INSULATOR ASSEMBLY - DOUBLE STRING



D5 SECTION
NOT TO SCALE
DEAD-END INSULATOR ASSEMBLY - DOUBLE STRING



B4 DETAIL
NOT TO SCALE
OPGW DEAD-END ASSEMBLY

MATERIAL LIST			
TAG	QTY	DESCRIPTION	PART CODE
1	1	BOLTED DEAD-END ASSEMBLY, OPGW	TBD
2	1	CLAMP, PARALLEL GROOVE, OPGW	TBD
3	1	Y-CLEVIS EYE EXTENSION LINK, 30K	TBD
4	10	WIRE, 3/8" STEEL, COMMON GRADE	TBD
5	1	GROUNDING LUG	TBD
6	6	CLEVIS BALL	TBD
7	3	SOCKET EYE	TBD
8	9	HOT LINE SOCKET CLEVIS	TBD
9	6	YOKE PLATE, 60K	TBD
10	102	INSULATOR DISC, GLASS, 30K	TBD
11	3	CLAMP, COMPRESSION ASSY, 795 ACSR "DRAKE"	TBD
12	6	HOT LINE Y-CLEVIS BALL	TBD
13	1	ANCHOR SHACKLE, 30K	TBD

GENERAL NOTES

- SEE DRAWING MPG-2010-K-5001 FOR GROUNDING, NUMBERING, AND SIGNAGE STANDARDS.

SHEET KEY NOTES

KEY MAP

Plot Date: 12/19/2023 10:04 AM File: C:\pwworking\hdi_sitas_reservoir\dms01251\MPG-2010-K-5006.dwg Saved By: CHUANG

REV	DATE	BY	CHK	APPR	DESCRIPTION

DESIGNED BY: E. GOLLANDS
 DRAWN BY: C. HUANG
 CHECKED BY: G. PEPI
 IN CHARGE: P. RUDE
 DATE: 12-22-2023

Jacobs
 2525 AIRPARK DR
 REDDING, CA 96001
 (530) 243-5831

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R.G. Vanderweil Engineers, LLP 817-423-7423 TEL
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 Boston, MA 02210

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SITES RESERVOIR

MAXWELL / SITES PUMPING AND GENERATING TRANSMISSION
 SINGLE CIRCUIT TERMINATION STRUCTURE
 ALL TERMINATION STRUCTURES AT SUBSTATIONS

VERIFY SCALES
 BAR IS ONE INCH ON ORIGINAL DRAWING. ADJUST SCALES FOR REDUCED PLOTS

 DRAWING NO. MPG-2010-K-5006
 SHT 20 OF 20

PRELIMINARY - NOT FOR CONSTRUCTION