

ELECTRICAL GENERAL NOTES

1. LIGHT LINES INDICATES EXISTING, HEAVY LINES INDICATES NEW ELECTRICAL WORK.
 2. EXCAVATION IN THE SITE SHALL BE PERFORMED IN SUCH MANNER AS TO PREVENT DAMAGE TO (E) UNDERGROUND UTILITIES THAT WILL REMAIN.
 3. CONTRACTOR SHALL HAVE A PRE-CONSTRUCTION MEETING AT THE SITE WITH PG&E AND THE ENGINEER REGARDING ELECTRICAL SERVICE.
 4. ALL TRENCHING, BACK FILL AND INSTALLATION OF ALL SUBSTRUCTURES FOR ELECTRIC SERVICE PER PG&E SPECIFICATIONS AND REQUIREMENTS.
 5. THE CONTRACTOR SHALL VERIFY THE ELECTRICAL EQUIPMENT, DEVICES AND CONDUITS SHOWN ON THE DWGS, AND REFERENCE PLANS ARE APPROXIMATE; THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY EXACT LOCATION IN THE FIELD TO DETERMINE THEIR ACCURACY BEFORE STARTING THE INSTALLATION WORK.
 6. WHERE ELECTRICAL EQUIPMENT IS FURNISHED AS A PACKAGE, AND/OR SPECIFIED UNDER OTHER DIVISIONS OF THE SPECIFICATION, THE CONTRACTOR SHALL FURNISH ALL MATERIAL AND LABOR REQUIRED FOR A PROPER AND CODE COMPLIANT OPERATION. THE UNIT, OR EQUIPMENT, MUST BE CAPABLE OF OPERATING IN THE ENVIRONMENTAL HAZARDS.
 7. ELECTRICAL PLANS DO NOT SHOW ALL EXISTING AND/OR NEW EQUIPMENT AND PIPING THAT MAY INTERFERE WITH THE EXISTING CONSTRUCTION. THE CONTRACTOR IS REQUIRED TO REVIEW THE REFERENCE CONTRACT DRAWINGS AND INSPECT THE SITE PRIOR TO SUBMITTING HIS BID AND BEFORE ENTERING CONTRACT WORK.
 8. ALL ELECTRICAL EQUIPMENT/DEVICES SHOWN ON THE DRAWINGS TO BE FURNISHED AND INSTALLED UNDER THIS CONTRACT ARE NEW UNLESS THEY ARE SHOWN TO BE EXISTING.
 9. PROVIDE CODE SIZED GROUND CONDUCTOR IN ALL FEEDER AND BRANCH CIRCUITS. UDN.
 10. CONTRACTOR SHALL SUBMIT SHOP DWG. SHOWING ANCHORAGE DETAILS AND CALCULATIONS STAMP AND SIGNED BY CA REGISTERED STRUCTURAL ENGINEER FOR ALL ELECTRICAL EQUIPMENT PER CEC 2807 AS ADOPTED BY STATE OF CALIFORNIA REQUIREMENT. ALL SUPPORT HARDWARE AND MATERIALS TYPE TO BE USED SHALL BE STAINLESS STEEL 316.
 11. ALL WORKS WITHIN THE PUBLIC RIGHT OF WAY SHALL BE PERFORMED IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION.
 12. OUTDOOR ENCLOSURE SHALL BE NEMA TYPE 4X 316 STAINLESS STEEL.
 13. MULTIPLE CONDUIT RUNS MAY BE REPRESENTED BY A SINGLE LINE WITH MULTIPLE TAGS.
 14. R/C U/G CONDUITS REQUIRES EXCAVATION AT ENDS, CUTTING BACK 6' OR CUTTING FLUSH WITH FINISHED FLOOR, R/C CUT PIECE, ABLE TO REPAIR IN PLACE, AND RECAST CONCRETE SURFACE.
 15. CONDUIT RUNS SHOWN ON DRAWINGS ARE LOOSELY ESTIMATED. ACTUAL RUNS TO BE DETERMINED BY CONTRACTOR. JUNCTION BOXES SHALL BE LOCATED SO THAT THE MAXIMUM NUMBER OF CONDUIT BENDS COINCIDES WITH ELECTRICAL SPECIFICATIONS. RUN ALL EXPOSED CONDUITS PARALLEL TO CEILING AND WALLS. SHOT DRAWINGS FOR CONDUIT LAYOUT AND MOUNTING DETAILS ARE REQUIRED PRIOR TO INSTALLATION. NO MECHANICAL PIPING SHOULD BE ROUTED OVER ELECTRICAL EQUIPMENT IN ELECTRICAL ROOMS.
 16. ELECTRICAL EQUIPMENT REQUIREMENTS SHOWN ON DRAWINGS ARE BASED ON FIRST NAMED EQUIPMENT VENDORS. CHANGES TO LAYOUT AND EQUIPMENT REQUIREMENTS OF ANY OTHER THAN THE FIRST NAMED VENDOR WHEN PROTRUCTOR SHALL BE RESPONSIBILITY OF THE CONTRACTOR FOR ANY ADDITIONAL COST.
 17. INSTALL ALL CONDUITS AND GROUND WIRES THAT CROSS STRUCTURE WALLS BEFORE FOUNDATION WORK.
 18. ALL CONTROL AND INSTRUMENTATION CONDUIT SHALL BE INSTALLED WITH A MINIMUM SEPARATION OF 12 INCHES FROM ANY POWER CONDUIT.
 19. CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS OF TERMINAL BOXES AND CONDUIT ENTRANCE AREAS FOR EQUIPMENT BEFORE STUBBING UP CONDUITS.
 20. AL EQUIPMENT SHALL BE INSTALLED IN LOCATIONS SHOWN ON DRAWINGS (UNLESS OBSTRUCTIONS EXIST) AND ACCORDING TO MANUFACTURERS' INSTRUCTIONS. IN CASE OF PROBLEMS, NOTIFY THE ENGINEER BEFORE INSTALLATION.
 21. IN CASE OF INTERFERENCE WITH ELECTRICAL EQUIPMENT SHOWN ON THE DRAWINGS AND OTHER EQUIPMENT, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING, AND THE ENGINEER SHALL DETERMINE THE REQUIRED CHANGES.
 22. PROVIDE FAULT LABELS WITH EQUIPMENT.
 23. IN CASE OF ANY DISCREPANCY BETWEEN THE DRAWINGS AND SPECIFICATIONS, THE CONTRACTOR SHALL NOTIFY THE DISTRICT IN WRITING BEFORE PROCEEDING.
 24. CONDUITS SHALL NOT BE STUBBED UP IN DRAWING AREAS WHERE WATER CAN ACCUMULATE
 25. FLEXIBLE LIQUID-TIGHT CONDUIT SHALL BE USED FOR CONNECTIONS TO MOTORS, ELECTRICAL VALVES, PRESSURE SWITCHES, SEISMIC JOINT, AND ALL OTHER EQUIPMENT SUBJECT TO VIBRATIONS. MAX LENGTH SHALL BE 36'.
 26. U/A CONDUIT RUNS WITH 3 OR MORE CONDUITS SHALL BE INSTALLED WITH INTERLOCKING SPACERS EVERY FIVE FEET.
 27. CAP ALL SPARE CONDUITS IN PUKE BOX OR PANEL.
 28. HORSEPOWER DESIGNATIONS ON ELECTRICAL DRAWINGS ARE FOR GUIDANCE ONLY. ACTUAL HORSEPOWER ARE DETERMINED UNDER MECHANICAL DRAWINGS AND SPECIFICATIONS.

ABBREVIATION

(E)	AMP
DS	EXISTING
HH	DISCONNECT
KAIC	HANDLE
KVA	KILD-AMP INTERRUPTING CURRE
(N)	KILD-VOLTAMPS
3P	NEW
	THREE POLE

LEGEND

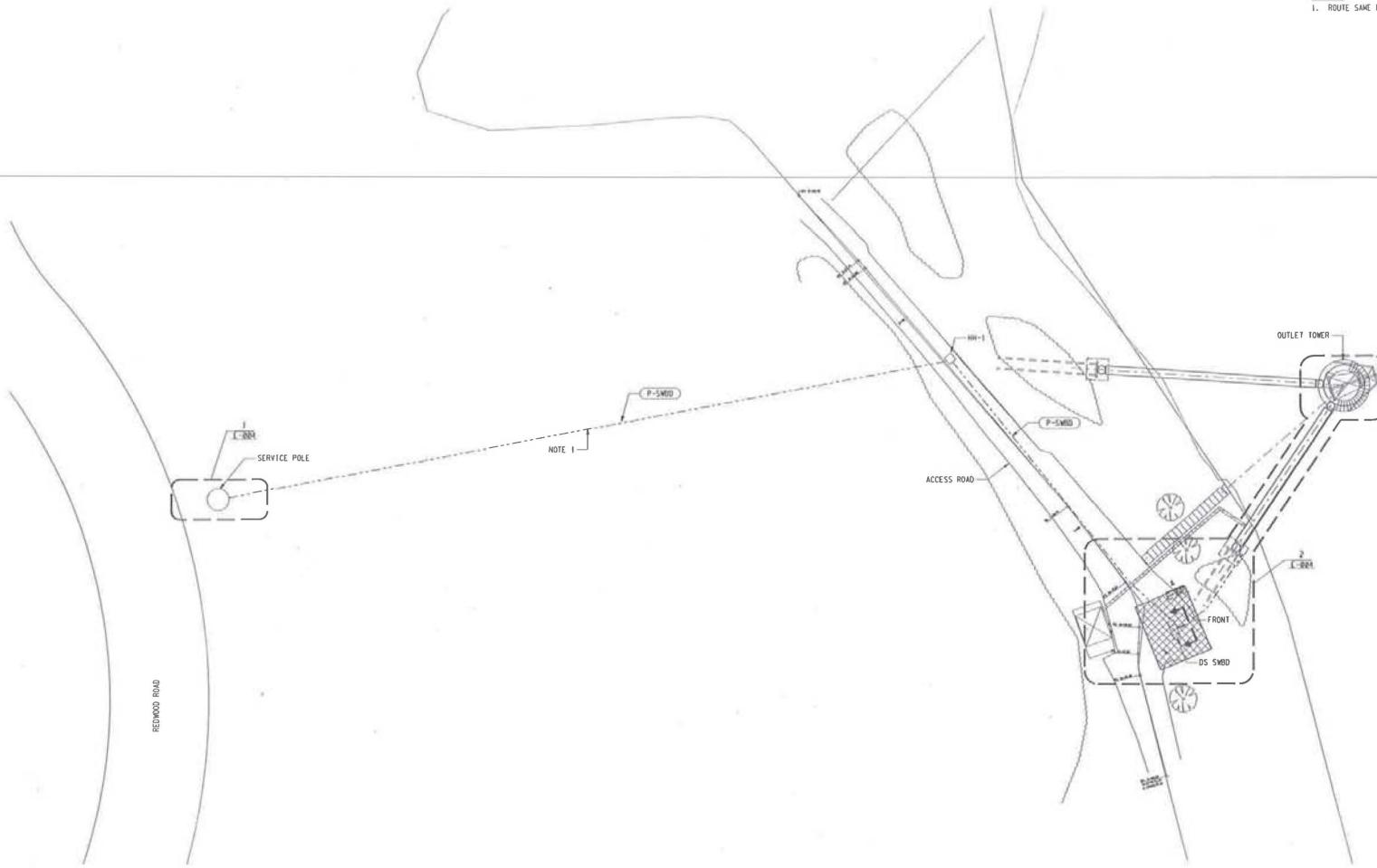
	BUS
	CURRENT TRANSFORMER
	DISCONNECT (FUSE TYPE)
	MOLDED CASE BREAKER
	MOTOR
	METER
	TRANSFORMER (DRY-TYPE)
	DUPLEX RECEPTACLE, 125V, 3PH, 20A, NEMA 5-20R, SURFACE MOUNTED, +18" AFF. WITH WEATHERPROOF "IN-USE" COVER.
	CONDUIT NUMBER TAG AS SHOWN ON PLANS AND SCHEDULE
	POWER CONDUIT RUN EXPOSED QUANTITY OF WIRES AS REQUIRED.

50% SUBMITTAL
NOT FOR CONSTRUCTION

EAST BAY MUNICIPAL UTILITY DISTRICT OAKLAND, CALIFORNIA	
UPPER SAN LEANDRO RESERVOIR TOWER UPGRADE	
GENERAL NOTES, ABBREVIATIONS AND LEGEND	
SHEET 1 OF 1	
PROJ. NO.	20090018
SCALE	NONE
DATE	10/30/14
523.11-E-001	
	PLATE NO. DATE INDEX NUMBER PEG NO.



3" ON ORIGINAL DOCUMENT



NOTE:
1. ROUTE SAME PATH AS EXISTING.

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EAST BAY MUNICIPAL UTILITY DISTRICT OAKLAND, CALIFORNIA	
UPPER SAN LEANDRO RESERVOIR TOWER UPGRADE	
ELECTRICAL SITE PLAN	
SHEET 1 OF 1	

3" ON ORIGINAL DOCUMENT
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NO.	DATE	BY REC APP.
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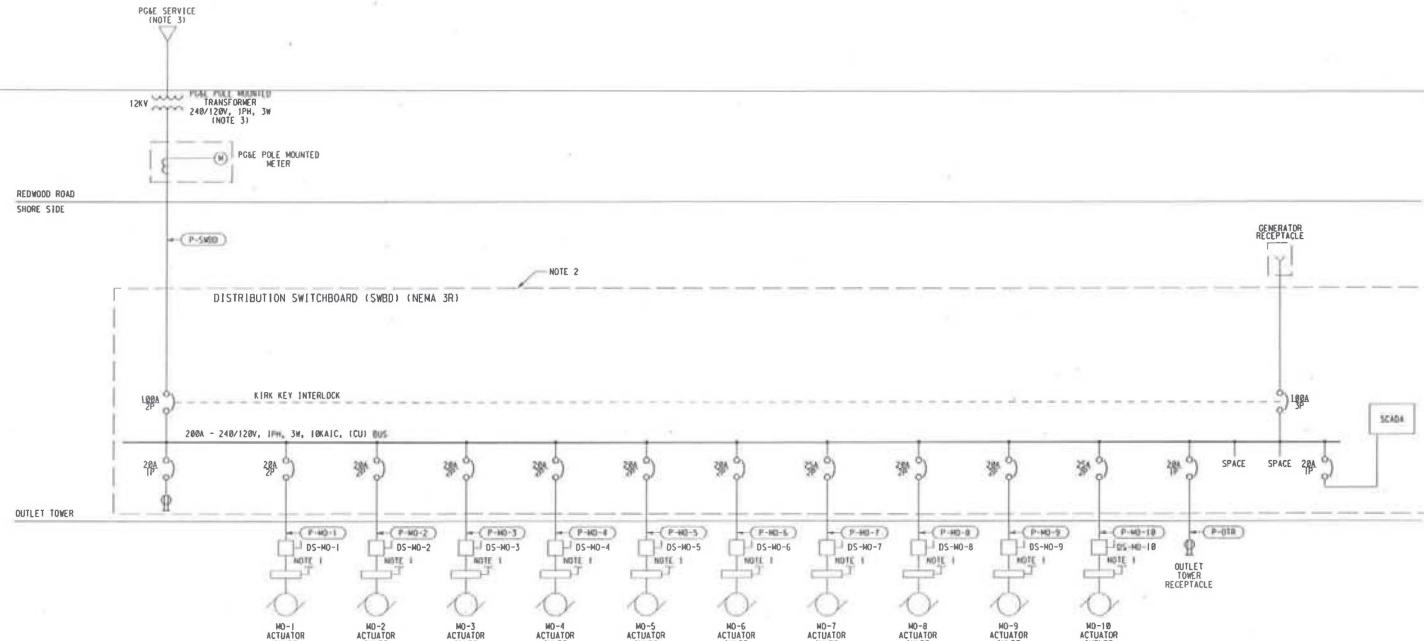
URS

YEI ENGINEERS, INC.
 www.yeilink.com

DESIGNED BY B. YEE
DESIGN CHECKED BY B. YEE
DRAWN BY R. HEYER
SR. PROJ. ENGR. G. CHEUNG
APPROVED G. CHEUNG
PRINCIPAL IN CHARGE, E.P.T., MI
PROJECT ENG. NO. B. ATALAY
RECOMMENDED R.D.E., MI
MANAGER OF DESIGN E. YIADOM
MANAGER OF DESIGN E. BIALIK
CHIEF REVIEWER E. BIALIK

PROJ. NO. 20090010
SCALE 1"-20'-0"
DATE 10/30/14
STRUCT. DESC. HUMMER REC.

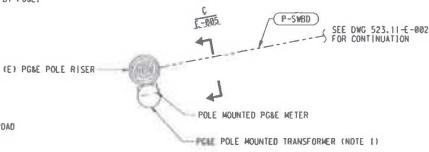
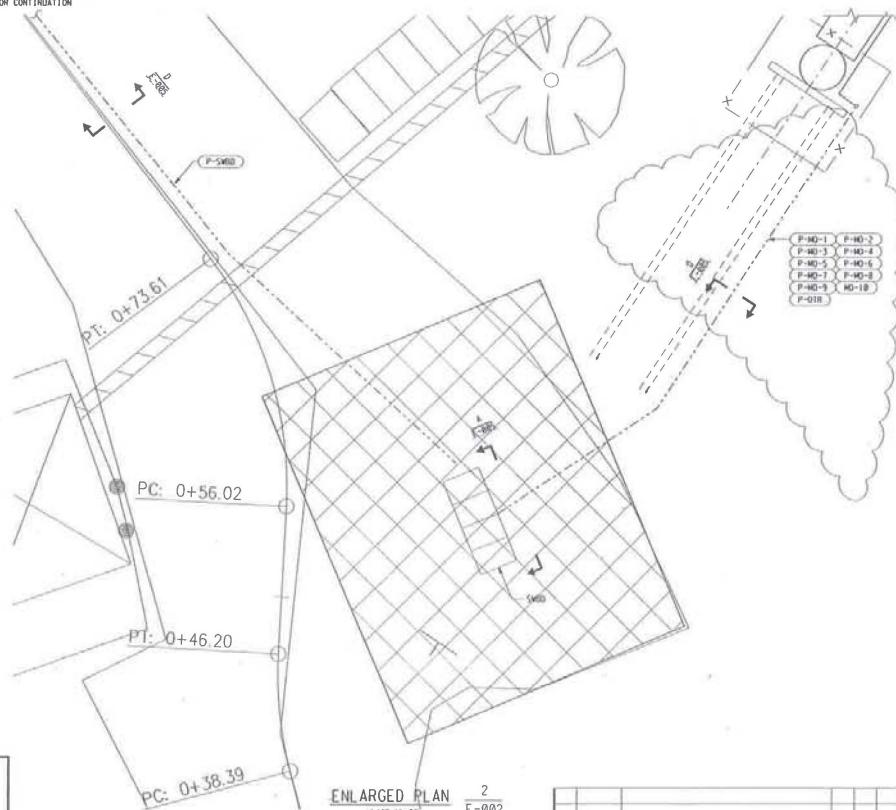
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NOTES

1. TO SCADA. SEE INSTRUMENTATION DWGS.
2. ONLY THREE ACTUATORS CAN RUN AT ONE TIME. SEE SCADA CONTROLS.
3. PROVIDED BY PG&E.

SPEC NO. 2-065

NOTE:
1. PROVIDED BY PG&E.ENLARGED PLAN 1
1/4"=1'-0"
E-002SEE DWG 523.11-E-002
FOR CONTINUATIONENLARGED PLAN 2
1/4"=1'-0"
E-002

3" ON ORIGINAL DOCUMENT

1 2 3

NO. DATE

BY REC. APP

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DRAWN BY R. HEYER

PROJ. ENGR.

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A. YIAOMM

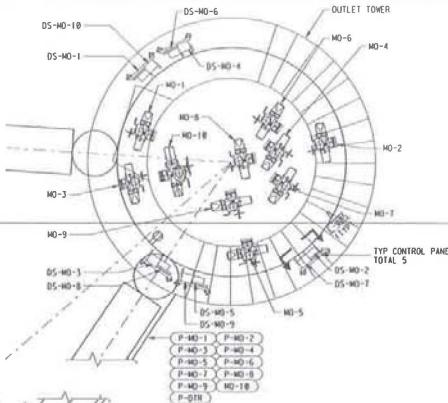
SOLID MODEL

APPROVED G. CHEUNG

UPDATER

MANAGER OF DESIGN E. BIALIK

PRINCIPAL IN CHARGE, P.E., MI

50% SUBMITTAL
NOT FOR CONSTRUCTIONEAST BAY MUNICIPAL UTILITY DISTRICT
OAKLAND, CALIFORNIAUPPER SAN LEANDRO RESERVOIR
TOWER UPGRADE
ELECTRICAL
ENLARGED PLANS

SHEET 1 OF 1

PROJ. NO. 20090018
SCALE 1/4"=1'-0"
DATE 10/30/14523.11-E-004
SHEET. DISC. NUMBER
REV. 0

CONDUIT SCHEDULE					
RACEWAY NUMBER	CONDUIT SIZE	FROM	TO	CONDUCTOR QUANTITY/SIZE	COMMENTS
PMD-1	1/2"	-	-	-	-
PMD-2	1/2"	-	-	-	-
PMD-3	1/2"	-	-	-	-
PMD-4	1/2"	-	-	-	-
PMD-5	1/2"	-	-	-	-
PMD-6	1/2"	-	-	-	-
PMD-7	1/2"	-	-	-	-
PMD-8	1/2"	-	-	-	-
PMD-9	1/2"	-	-	-	-
PMD-10	1/2"	-	-	-	-
POTR	1/2"	-	-	-	-
POTR	1/2"	-	-	-	-

3" ON ORIGINAL DOCUMENT



URS



YEI
ENGINEERS, INC.

Project Manager: B. ATALAY
Design Manager: B. YEE
Drawing No.: 52311-E006
Date: 10/30/14
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PRINCIPAL IN CHARGE:

E. BIALIK

MANAGER OF DESIGN:

E.A.C.T. NO.:

PRINCIPAL IN CHARGE:

E. BIALIK

ENR'D. REC'D.

REV.

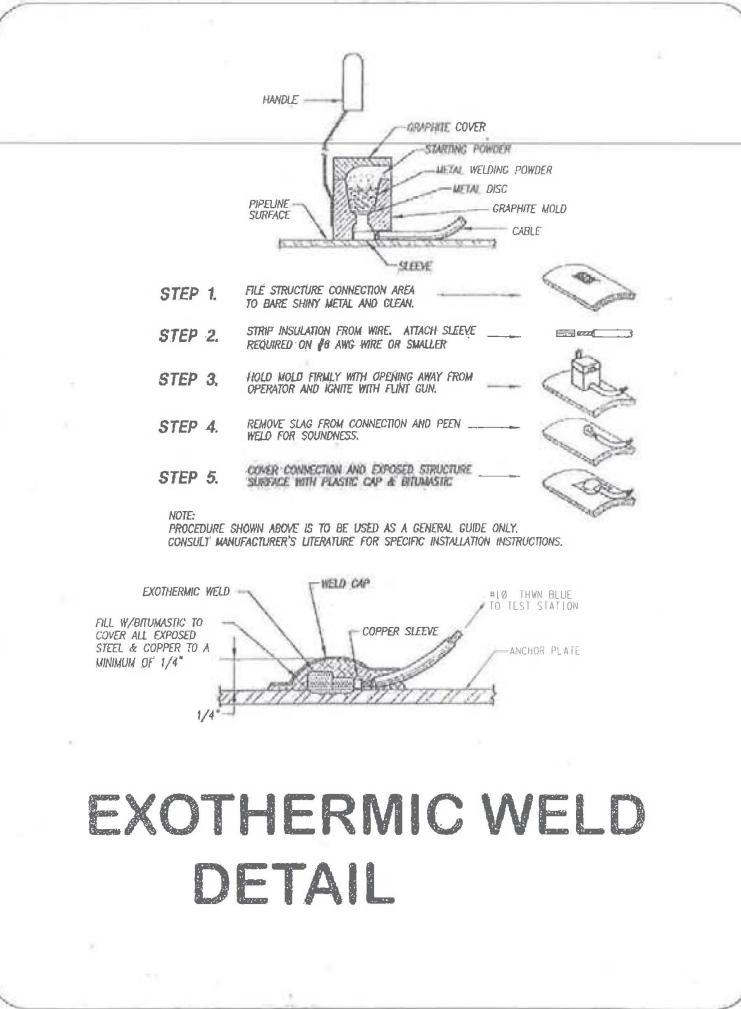
50% SUBMITTAL
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EAST BAY MUNICIPAL UTILITY DISTRICT OAKLAND, CALIFORNIA	
UPPER SAN LEANDRO RESERVOIR TOWER UPGRADE	
ELECTRICAL SCHEDULES	
SHEET 1 OF 1	
PROJ. NO.:	20090018
SCALE:	NONE
DATE:	10/30/14
STRUCT. DISC. NUMBER:	523.11-E-006
REV.:	0

3" ON ORIGINAL DOCUMENT

0	1	2	3
IN.	MM	MM	MM

URS



EXOTHERMIC WELD DETAIL

GENERAL NOTES:

1. FOR EXACT DIMENSIONS OF THE PIPELINES AND APPURTENANCES, SEE MECHANICAL DWGS.
2. UNI, ALL COMPONENTS ARE NEW AND TO BE INSTALLED UNDER THE CONTRACT.
3. WIRING SHOWN IS ONLY A SCHEMATIC AND ACTUAL WIRING LAYOUT SHALL BE DETERMINED IN THE FIELD.
4. THE CATHODIC PROTECTION LAYOUT IS ONLY A SCHEMATIC DIAGRAM, THE ACTUAL INSTALLATION AND LAYOUT SHALL BE PER FINAL APPROVED SUBMITTAL.

LEGEND

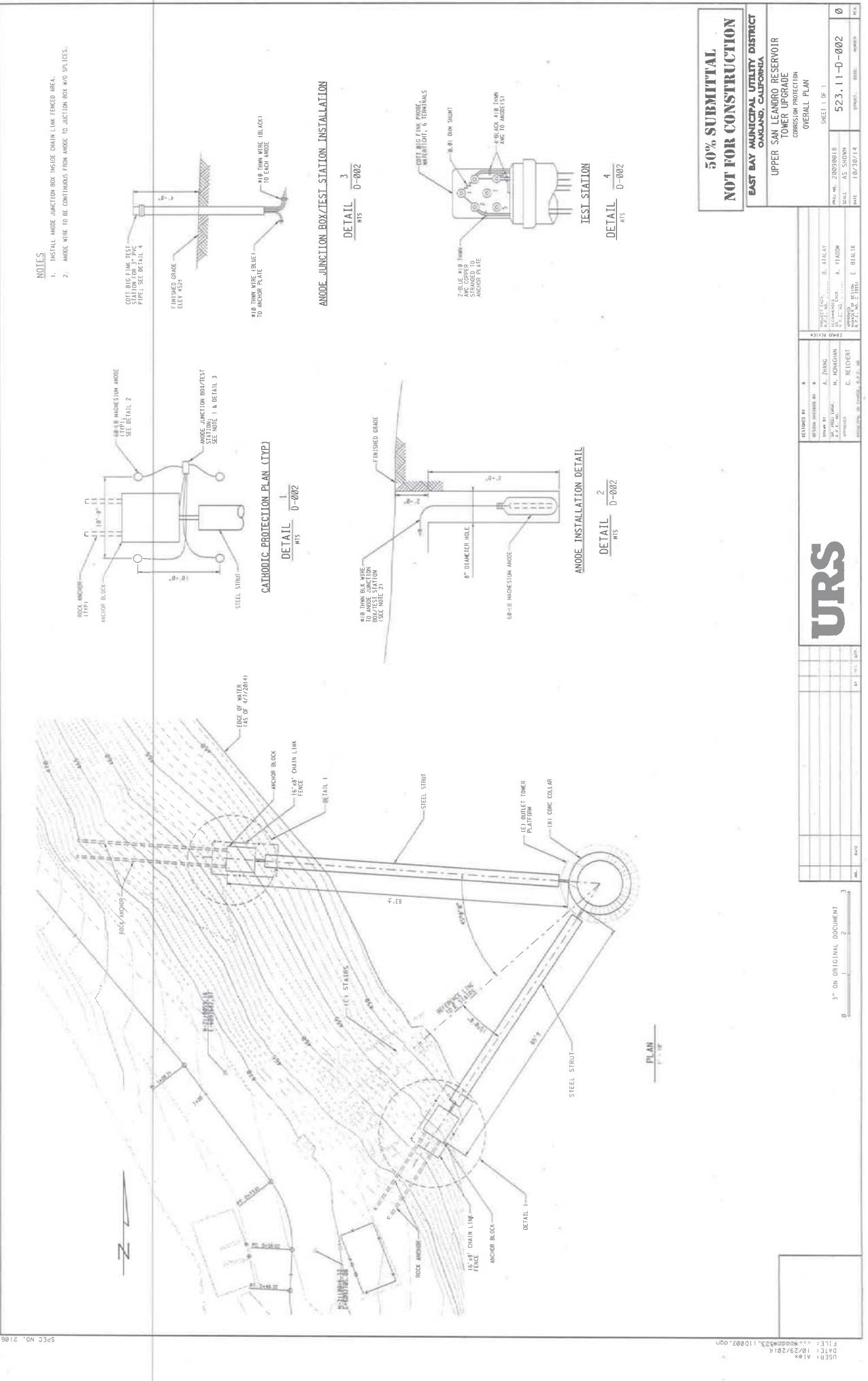
- DEEP ANODE
- GALVANIC ANODE BED
- POST MOUNT TEST STATION

ABBREVIATIONS

ARV	AIR RELEASE VALVE
AWG	AMERICAN WIRE GAUGE
BLK	BLACK
BTV	BUTTERFLY VALVE
BO	BLOW OFF
C	CONDUIT
CTE	COAL TAR ENAMEL
DF-T	DRY FILM THICKNESS
G	GROUND
GRS	GALVANIZED RIGID STEEL
IFJ	INSULATED FLANGE JOINT
THHN	THERMOPLASTIC HEAT & WATER RESISTANT NYLON COATED
TS	TEST STATION
WHT	WHITE
YEL	YELLOW

50% SUBMITTAL NOT FOR CONSTRUCTION

EAST BAY MUNICIPAL UTILITY DISTRICT OAKLAND, CALIFORNIA	
UPPER SAN LEANDRO RESERVOIR TOWER UPGRADE CORROSION PROTECTION GENERAL CORROSION CONTROL NOTES TYPICAL DETAILS	
PROJ NO. Z0090018	523.11-D-001
SCALE ND SCALE	DATE 10/30/14
VERBET. NAME. NUMBER	REV. 0



INSTRUMENT IDENTIFICATION		P&ID LINE LEGEND		ABBREVIATIONS & LETTER SYMBOLS		TAGGING & LOOP IDENTIFICATION																																																																																																																																																																																																	
	COMPUTER SOFTWARE OR HARDWARE SOFTWARE RACK INTERFACE, ETC.		PROCESS LINE																																																																																																																																																																																																				
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<p>INSTRUMENTATION SYSTEMS AND AUTOMATION SOCIETY TABLE</p> <table border="1"> <thead> <tr> <th>LETTER</th> <th>MEASURED OR INPUTTING VARIABLE</th> <th>MODIFIER</th> <th>FUNCTION</th> <th>SEAL/DRAINAGE</th> <th>WATER</th> <th>WATER FUNCTION</th> <th>WATER LEVEL</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>HANOSSEK</td> <td>MANUFACTURER</td> <td>ALARM</td> <td>NO DRAINAGE</td> <td>ZHANG</td> <td>NO DRAINAGE</td> <td>NO DRAINAGE</td> </tr> <tr> <td>C</td> <td>SPECIFIC CONDUCTIVITY</td> <td>TEST</td> <td>NO DRAINAGE</td> <td>NO DRAINAGE</td> <td>MA</td> <td>NO DRAINAGE</td> <td>NO DRAINAGE</td> </tr> <tr> <td>D</td> <td>PH/REDOX</td> <td>TEST</td> <td>NO DRAINAGE</td> <td>NO DRAINAGE</td> <td>MA</td> <td>NO DRAINAGE</td> <td>NO DRAINAGE</td> </tr> <tr> <td>E</td> <td>TEMPERATURE</td> <td>TEST</td> <td>NO DRAINAGE</td> <td>NO DRAINAGE</td> <td>MA</td> <td>NO DRAINAGE</td> <td>NO DRAINAGE</td> </tr> <tr> <td>F</td> <td>FLOW RATE</td> <td>TEST</td> <td>NO DRAINAGE</td> <td>NO 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<td>TEST</td> <td>NO DRAINAGE</td> <td>NO DRAINAGE</td> <td>MA</td> <td>NO DRAINAGE</td> <td>NO DRAINAGE</td> </tr> <tr> <td>V</td> <td>ACQUISITION</td> <td>TEST</td> <td>NO DRAINAGE</td> <td>NO DRAINAGE</td> <td>MA</td> <td>NO DRAINAGE</td> <td>NO DRAINAGE</td> </tr> <tr> <td>W</td> <td>DATA ACQUISITION</td> <td>TEST</td> <td>NO DRAINAGE</td> <td>NO DRAINAGE</td> <td>MA</td> <td>NO DRAINAGE</td> <td>NO DRAINAGE</td> </tr> <tr> <td>X</td> <td>DATA ACQUISITION</td> <td>TEST</td> <td>NO DRAINAGE</td> <td>NO DRAINAGE</td> <td>MA</td> <td>NO DRAINAGE</td> <td>NO DRAINAGE</td> </tr> <tr> <td>Y</td> <td>DATA ACQUISITION</td> <td>TEST</td> <td>NO DRAINAGE</td> <td>NO DRAINAGE</td> <td>MA</td> <td>NO DRAINAGE</td> <td>NO DRAINAGE</td> </tr> <tr> <td>Z</td> <td>DATA ACQUISITION</td> <td>TEST</td> <td>NO DRAINAGE</td> <td>NO DRAINAGE</td> <td>MA</td> <td>NO DRAINAGE</td> <td>NO DRAINAGE</td> </tr> </tbody> </table>								LETTER	MEASURED OR INPUTTING VARIABLE	MODIFIER	FUNCTION	SEAL/DRAINAGE	WATER	WATER FUNCTION	WATER LEVEL	A	HANOSSEK	MANUFACTURER	ALARM	NO DRAINAGE	ZHANG	NO DRAINAGE	NO DRAINAGE	C	SPECIFIC CONDUCTIVITY	TEST	NO DRAINAGE	NO DRAINAGE	MA	NO DRAINAGE	NO DRAINAGE	D	PH/REDOX	TEST	NO DRAINAGE	NO DRAINAGE	MA	NO DRAINAGE	NO DRAINAGE	E	TEMPERATURE	TEST	NO DRAINAGE	NO DRAINAGE	MA	NO DRAINAGE	NO DRAINAGE	F	FLOW RATE	TEST	NO DRAINAGE	NO DRAINAGE	MA	NO DRAINAGE	NO DRAINAGE	G	CHAMBERS	TEST	NO DRAINAGE	NO DRAINAGE	MA	NO DRAINAGE	NO DRAINAGE	H	MANUFACTURER	TEST	NO DRAINAGE	NO DRAINAGE	MA	NO DRAINAGE	NO DRAINAGE	I	FRONT ELECTRICAL	TEST	NO DRAINAGE	NO DRAINAGE	MA	NO DRAINAGE	NO DRAINAGE	K	OPEN, CLOSE, AUTO	TEST	NO DRAINAGE	NO DRAINAGE	MA	NO DRAINAGE	NO DRAINAGE	L	OPEN, CLOSE, AUTO	TEST	NO DRAINAGE	NO DRAINAGE	MA	NO DRAINAGE	NO DRAINAGE	M	NO DRAINAGE	TEST	NO DRAINAGE	NO DRAINAGE	MA	NO DRAINAGE	NO DRAINAGE	N	OPEN, CLOSE, AUTO	TEST	NO DRAINAGE	NO DRAINAGE	MA	NO DRAINAGE	NO DRAINAGE	O	OPEN, CLOSE, REMOTE	TEST	NO DRAINAGE	NO DRAINAGE	MA	NO DRAINAGE	NO DRAINAGE	P	PROGRAMMABLE LOGIC CONTROLLER	TEST	NO DRAINAGE	NO DRAINAGE	MA	NO DRAINAGE	NO DRAINAGE	R	PLC CONTROL PANEL	TEST	NO DRAINAGE	NO DRAINAGE	MA	NO DRAINAGE	NO DRAINAGE	S	REMOTE PANEL	TEST	NO DRAINAGE	NO DRAINAGE	MA	NO DRAINAGE	NO DRAINAGE	T	REMOTE UNIT	TEST	NO DRAINAGE	NO DRAINAGE	MA	NO DRAINAGE	NO DRAINAGE	U	SCADA	TEST	NO DRAINAGE	NO DRAINAGE	MA	NO DRAINAGE	NO DRAINAGE	V	ACQUISITION	TEST	NO DRAINAGE	NO DRAINAGE	MA	NO DRAINAGE	NO DRAINAGE	W	DATA ACQUISITION	TEST	NO DRAINAGE	NO DRAINAGE	MA	NO DRAINAGE	NO DRAINAGE	X	DATA ACQUISITION	TEST	NO DRAINAGE	NO DRAINAGE	MA	NO DRAINAGE	NO DRAINAGE	Y	DATA ACQUISITION	TEST	NO DRAINAGE	NO DRAINAGE	MA	NO DRAINAGE	NO DRAINAGE	Z	DATA ACQUISITION	TEST	NO DRAINAGE	NO DRAINAGE	MA	NO DRAINAGE	NO DRAINAGE
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G	CHAMBERS	TEST	NO DRAINAGE	NO DRAINAGE	MA	NO DRAINAGE	NO DRAINAGE																																																																																																																																																																																																
H	MANUFACTURER	TEST	NO DRAINAGE	NO DRAINAGE	MA	NO DRAINAGE	NO DRAINAGE																																																																																																																																																																																																
I	FRONT ELECTRICAL	TEST	NO DRAINAGE	NO DRAINAGE	MA	NO DRAINAGE	NO DRAINAGE																																																																																																																																																																																																
K	OPEN, CLOSE, AUTO	TEST	NO DRAINAGE	NO DRAINAGE	MA	NO DRAINAGE	NO DRAINAGE																																																																																																																																																																																																
L	OPEN, CLOSE, AUTO	TEST	NO DRAINAGE	NO DRAINAGE	MA	NO DRAINAGE	NO DRAINAGE																																																																																																																																																																																																
M	NO DRAINAGE	TEST	NO DRAINAGE	NO DRAINAGE	MA	NO DRAINAGE	NO DRAINAGE																																																																																																																																																																																																
N	OPEN, CLOSE, AUTO	TEST	NO DRAINAGE	NO DRAINAGE	MA	NO DRAINAGE	NO DRAINAGE																																																																																																																																																																																																
O	OPEN, CLOSE, REMOTE	TEST	NO DRAINAGE	NO DRAINAGE	MA	NO DRAINAGE	NO DRAINAGE																																																																																																																																																																																																
P	PROGRAMMABLE LOGIC CONTROLLER	TEST	NO DRAINAGE	NO DRAINAGE	MA	NO DRAINAGE	NO DRAINAGE																																																																																																																																																																																																
R	PLC CONTROL PANEL	TEST	NO DRAINAGE	NO DRAINAGE	MA	NO DRAINAGE	NO DRAINAGE																																																																																																																																																																																																
S	REMOTE PANEL	TEST	NO DRAINAGE	NO DRAINAGE	MA	NO DRAINAGE	NO DRAINAGE																																																																																																																																																																																																
T	REMOTE UNIT	TEST	NO DRAINAGE	NO DRAINAGE	MA	NO DRAINAGE	NO DRAINAGE																																																																																																																																																																																																
U	SCADA	TEST	NO DRAINAGE	NO DRAINAGE	MA	NO DRAINAGE	NO DRAINAGE																																																																																																																																																																																																
V	ACQUISITION	TEST	NO DRAINAGE	NO DRAINAGE	MA	NO DRAINAGE	NO DRAINAGE																																																																																																																																																																																																
W	DATA ACQUISITION	TEST	NO DRAINAGE	NO DRAINAGE	MA	NO DRAINAGE	NO DRAINAGE																																																																																																																																																																																																
X	DATA ACQUISITION	TEST	NO DRAINAGE	NO DRAINAGE	MA	NO DRAINAGE	NO DRAINAGE																																																																																																																																																																																																
Y	DATA ACQUISITION	TEST	NO DRAINAGE	NO DRAINAGE	MA	NO DRAINAGE	NO DRAINAGE																																																																																																																																																																																																
Z	DATA ACQUISITION	TEST	NO DRAINAGE	NO DRAINAGE	MA	NO DRAINAGE	NO DRAINAGE																																																																																																																																																																																																

