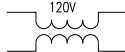
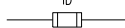
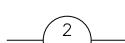
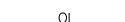
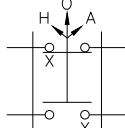
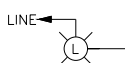
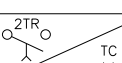
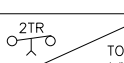
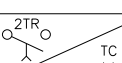
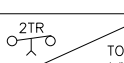
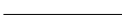
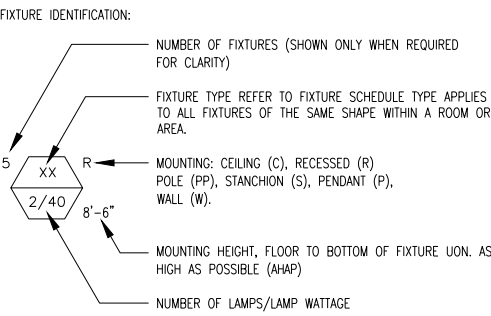
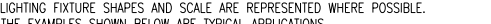
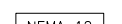
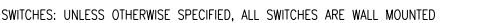
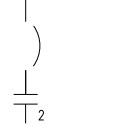
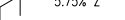
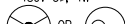
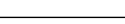
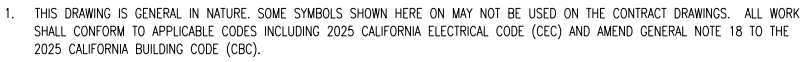
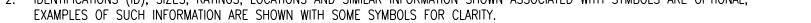
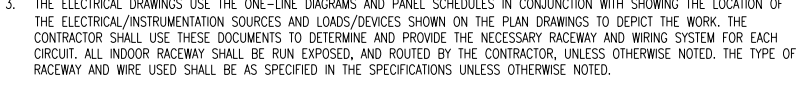
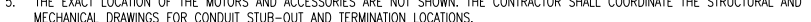
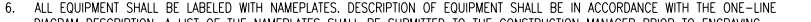
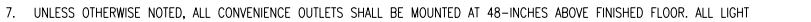
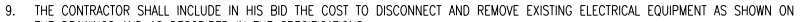
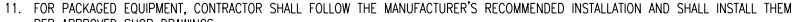
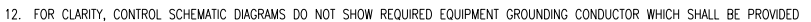
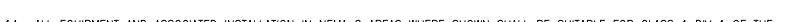
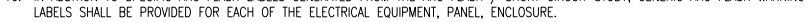
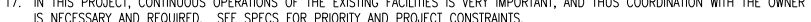
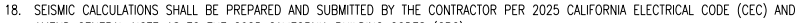
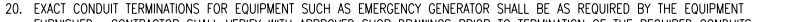
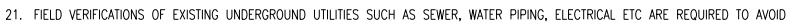
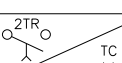
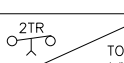


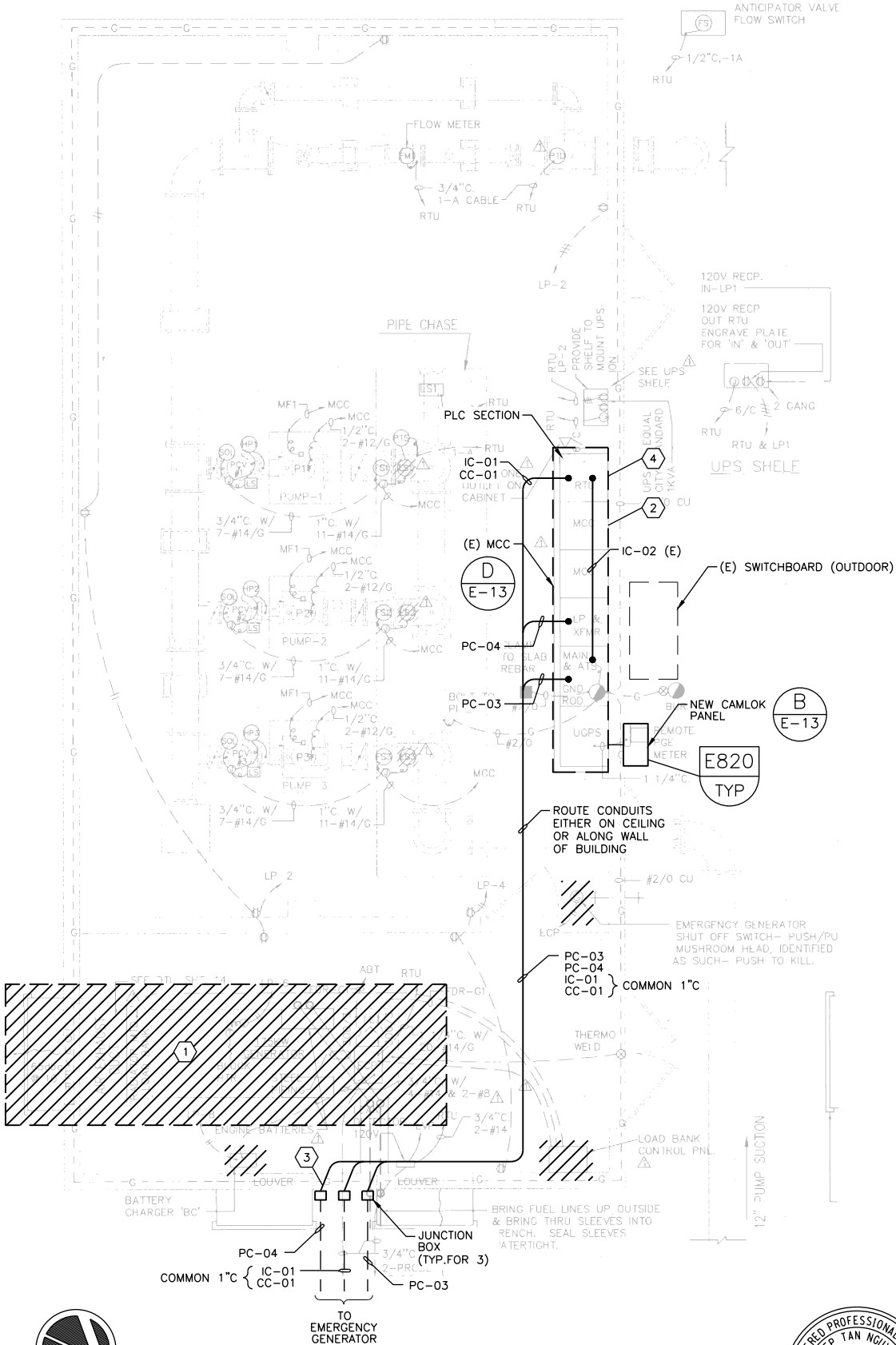
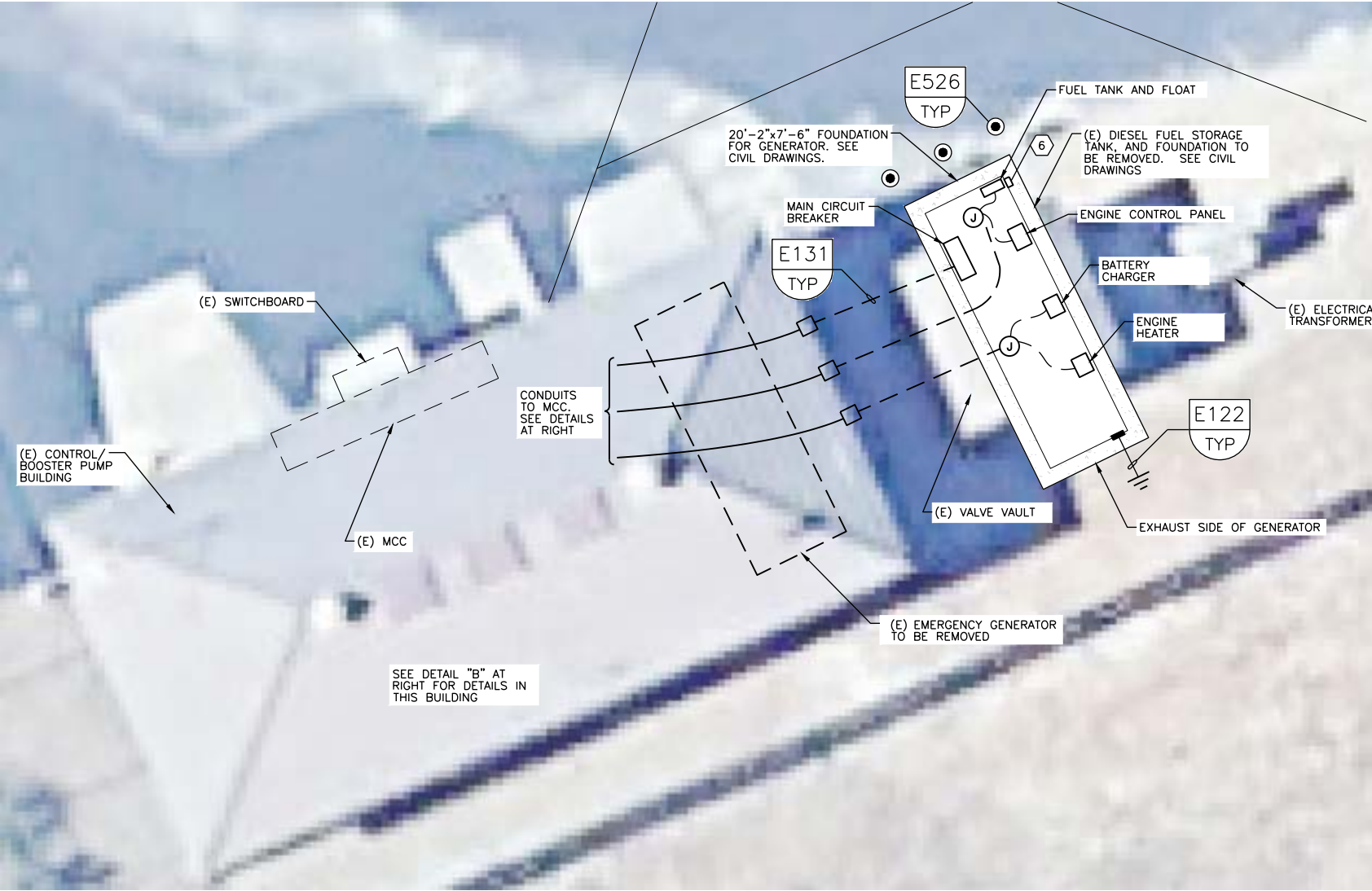
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CONTROL DIAGRAM SYMBOLS			CIRCUITS AND RACEWAYS			LIGHTING			WIRING DEVICES			ONE-LINE DIAGRAM SYMBOLS																															
 CONTROL TRANSFORMER, PRIMARY AND SECONDARY VOLTAGES SHOWN, SIZE AS SHOWN OR SPECIFIED  CIRCUIT BREAKER, THERMAL-MAGNETIC, 3 POLE, UON, RATING IN AMPS  DESIGNATES PLC INPUT TERMINATION OR CONTROL PANEL TERMINATION  FUSE CLF MODIFIERS: = CURRENT LIMITING FUSE DE = DUAL ELEMENT F = CLASS F  PUSHBUTTON, MOMENTARY CONTACT, NORMALLY OPEN  PUSHBUTTON, MOMENTARY CONTACT, NORMALLY CLOSED  STOP PUSHBUTTON WITH LOCKOUT  CONTROL RELAY OPERATING COIL FUNCTION: CR= CONTROL RELAY U = UNLATCH L = LATCH  THERMAL OVERLOAD RELAY  OUTPUT CONTACTS  TIMING RELAY OPERATING COIL ON/OFF/DELAY RANGE: SEC/MIN SET: SEC/MIN  SELECTOR SWITCH 3 POSITION MAINTAINED CONTACT (X = CONTACTS CLOSED)  INDICATING LIGHT PUSH TO TEST, TEST VOLTAGE TERMINAL SHOWN  2-WAY SOLENOID VALVE <table><tr><th>NORMALLY OPEN</th><th>NORMALLY CLOSE</th><th>DEFINITION</th></tr><tr><td></td><td></td><td>DELAY ON COIL ENERGIZATION (ON DELAY)</td></tr><tr><td></td><td></td><td>POSITION (LIMIT) SWITCH</td></tr><tr><td></td><td></td><td>TEMPERATURE SWITCH</td></tr><tr><td></td><td></td><td>PRESSURE SWITCH</td></tr><tr><td></td><td></td><td>LEVEL SWITCH</td></tr></table>			NORMALLY OPEN	NORMALLY CLOSE	DEFINITION			DELAY ON COIL ENERGIZATION (ON DELAY)			POSITION (LIMIT) SWITCH			TEMPERATURE SWITCH			PRESSURE SWITCH			LEVEL SWITCH	 RACEWAY EXPOSED  RACEWAY UNDERGROUND  RACEWAY CONCEALED IN CONCRETE ENCASEMENT  RACEWAY TURNED TOWARD THE VIEWER  RACEWAY TURNED DOWN  HH: HANDHOLE, MH: MANHOLE  JUNCTION BOX  TERMINAL BOX  3#10 AWG, GNDG, 1" C  LPUV-1  ICXXX  CCXXX  P-4XX  LP-2XX  LP-1XX			 FIXTURE IDENTIFICATION: NUMBER OF FIXTURES (SHOWN ONLY WHEN REQUIRED FOR CLARITY) FIXTURE TYPE REFER TO FIXTURE SCHEDULE TYPE APPLIES TO ALL FIXTURES OF THE SAME SHAPE WITHIN A ROOM OR AREA. MOUNTING: CEILING (C), RECESSED (R) POLE (PP), STANCHION (S), PENDANT (P), WALL (W). MOUNTING HEIGHT, FLOOR TO BOTTOM OF FIXTURE UON. AS HIGH AS POSSIBLE (AHAP) NUMBER OF LAMPS/LAMP WATTAGE  LIGHTING FIXTURE SHAPES AND SCALE ARE REPRESENTED WHERE POSSIBLE. THE EXAMPLES SHOWN BELOW ARE TYPICAL APPLICATIONS.  FLUORESCENT FIXTURE  WALL MOUNTED FIXTURE  EMERGENCY LIGHTING UNIT SELF CONTAINED			 GROUND CONNECTION  PROGRAMMABLE LOGIC CONTROLLER I/O  E150 TYP  T  5  △  *  ◇  ●  ●  ●  E  F  F  A  ()  K  NEMA 4X  NEMA 8  NEMA 12 ///			 SWITCHES: UNLESS OTHERWISE SPECIFIED, ALL SWITCHES ARE WALL MOUNTED  TOGGLE SWITCH, SINGLE POLE, 20 AMP  GANGED SWITCHES IN COMMON BOX WITH COMMON WALL PLATE  SUPERSCRIPT INDICATES CIRCUIT CONTROLLED: a, b, c, ETC. MAY BE COMBINED WITH CIRCUIT NUMBER: 1a, 4b, ETC.  SUBSCRIPT MODIFIER INDICATES: 2 = DOUBLE POLE 3 = THREE WAY 4 = FOUR WAY K = KEY OPERATED MC = MOMENTARY CONTACT, THREE POSITION MS = MANUAL (MOTOR) STARTER OR SWITCH R = RHEOSTAT (DIMMER, SPEED CONTROL) WP = WEATHER PROOF  RECEPTACLES: UNLESS OTHERWISE SPECIFIED, ALL RECEPTACLES ARE 125 VOLT, SINGLE PHASE, STRAIGHT BLADE, NON LOCKING, GROUNDING STYLE.  DUPLEX RECEPTACLE, 20 AMP, 3 WIRE. MODIFIERS: WP = WEATHER PROOF GFI = GROUND FAULT CIRCUIT INTERRUPTER H = HAZARDOUS AREA-EXPLOSION PROOF  ●  ●			 SIZE 2 COMBINATION FULL VOLTAGE NON-REVERSING MAGNETIC STARTER MCP SIZED BY MANUFACTURER (OVERLOAD RELAY NOT SHOWN). RV = REDUCED VOLTAGE 252W = TWO-SPEED TWO-WINDING 2 = SIZE 2  400/3  MF  MF  480/277V 5.75% Z  5.75% Z  REACTOR (3%)  480V 3ø, 4W 600KW 60HZ OR			 MPD 413  200A  FU			 GENERAL NOTES  1. THIS DRAWING IS GENERAL IN NATURE. SOME SYMBOLS SHOWN HERE ON MAY NOT BE USED ON THE CONTRACT DRAWINGS. ALL WORK SHALL CONFORM TO APPLICABLE CODES INCLUDING 2025 CALIFORNIA ELECTRICAL CODE (CEC) AND AMEND GENERAL NOTE 18 TO THE 2025 CALIFORNIA BUILDING CODE (CBC).  2. IDENTIFICATIONS (ID), SIZES, RATINGS, LOCATIONS AND SIMILAR INFORMATION SHOWN ASSOCIATED WITH SYMBOLS ARE OPTIONAL; EXAMPLES OF SUCH INFORMATION ARE SHOWN WITH SOME SYMBOLS FOR CLARITY.  3. THE ELECTRICAL DRAWINGS USE THE ONE-LINE DIAGRAMS AND PANEL SCHEDULES IN CONJUNCTION WITH SHOWING THE LOCATION OF THE ELECTRICAL/INSTRUMENTATION SOURCES AND LOADS/DEVICES SHOWN ON THE PLAN DRAWINGS TO DEPICT THE WORK. THE CONTRACTOR SHALL USE THESE DOCUMENTS TO DETERMINE AND PROVIDE THE NECESSARY RACEWAY AND WIRING SYSTEM FOR EACH CIRCUIT. ALL INDOOR RACEWAY SHALL BE RUN EXPOSED, AND ROUTED BY THE CONTRACTOR, UNLESS OTHERWISE NOTED. THE TYPE OF RACEWAY AND WIRE USED SHALL BE AS SPECIFIED IN THE SPECIFICATIONS UNLESS OTHERWISE NOTED.  4. THE LOCATION OF THE CONTROL STATIONS SHOWN ON THE PLAN DRAWINGS ARE DIAGRAMMATIC AND THE ACTUAL LOCATION SHALL BE COORDINATED IN THE FIELD WITH THE CONSTRUCTION MANAGER.  5. THE EXACT LOCATION OF THE MOTORS AND ACCESSORIES ARE NOT SHOWN. THE CONTRACTOR SHALL COORDINATE THE STRUCTURAL AND MECHANICAL DRAWINGS FOR CONDUIT STUB-OUT AND TERMINATION LOCATIONS.  6. ALL EQUIPMENT SHALL BE LABELED WITH NAMEPLATES. DESCRIPTION OF EQUIPMENT SHALL BE IN ACCORDANCE WITH THE ONE-LINE DIAGRAM DESCRIPTION. A LIST OF THE NAMEPLATES SHALL BE SUBMITTED TO THE CONSTRUCTION MANAGER PRIOR TO ENGRAVING.  7. UNLESS OTHERWISE NOTED, ALL CONVENIENCE OUTLETS SHALL BE MOUNTED AT 48-INCHES ABOVE FINISHED FLOOR. ALL LIGHT SWITCHES SHALL BE MOUNTED AT 54-INCHES ABOVE FINISHED FLOOR.  8. EACH CONVENIENCE OUTLET AND LIGHTING CIRCUIT SHALL BE PROVIDED WITH A #12AWG GREEN GROUNDING CONDUCTOR.  9. THE CONTRACTOR SHALL INCLUDE IN HIS BID THE COST TO DISCONNECT AND REMOVE EXISTING ELECTRICAL EQUIPMENT AS SHOWN ON THE DRAWINGS AND AS DESCRIBED IN THE SPECIFICATIONS.  10. ALL TYPICAL DETAILS SHALL APPLY REGARDLESS WHETHER THEY ARE REFERENCED ON ANY DRAWING OR NOT.  11. FOR PACKAGED EQUIPMENT, CONTRACTOR SHALL FOLLOW THE MANUFACTURER'S RECOMMENDED INSTALLATION AND SHALL INSTALL THEM PER APPROVED SHOP DRAWINGS.  12. FOR CLARITY, CONTROL SCHEMATIC DIAGRAMS DO NOT SHOW REQUIRED EQUIPMENT GROUNDING CONDUCTOR WHICH SHALL BE PROVIDED FOR EACH POWER CIRCUIT.  13. ALL EXPOSED CONDUITS SHALL BE RIGID GALVANIZED STEEL CONDUITS, ALL ASSOCIATED CONDUIT ACCESSORIES SUCH AS FITTINGS, BOXES, CONDUITS ETC. SHALL BE STAINLESS STEEL.  14. ALL EQUIPMENT AND ASSOCIATED INSTALLATION IN NEMA 8 AREAS WHERE SHOWN SHALL BE SUITABLE FOR CLASS 1 DIV 1 OF THE CLASSIFIED HAZARDOUS LOCATIONS PER NEC.  15. ALL EQUIPMENT AND ASSOCIATED INSTALLATION IN NEMA 4X AREAS WHERE SHOWN SHALL BE CORROSIVE RESISTANT WITH STAINLESS STEEL MATERIALS AND ENCLOSURES.  16. IN ADDITION TO SPECIFIC ARC FLASH LABELS GENERATED FROM THE ARC FLASH / SHORT CIRCUIT STUDY, GENERIC ARC FLASH WARNING LABELS SHALL BE PROVIDED FOR EACH OF THE ELECTRICAL EQUIPMENT, PANEL, ENCLOSURE.  17. IN THIS PROJECT, CONTINUOUS OPERATIONS OF THE EXISTING FACILITIES IS VERY IMPORTANT, AND THUS COORDINATION WITH THE OWNER IS NECESSARY AND REQUIRED. SEE SPECS FOR PRIORITY AND PROJECT CONSTRAINTS.  18. SEISMIC CALCULATIONS SHALL BE PREPARED AND SUBMITTED BY THE CONTRACTOR PER 2025 CALIFORNIA ELECTRICAL CODE (CEC) AND AMEND GENERAL NOTE 18 TO THE 2025 CALIFORNIA BUILDING CODES (CBC).  19. ALL ELECTRICAL EQUIPMENT AND INSTALLATION SHALL BE IN COMPLIANCE WITH 2025 CALIFORNIA ELECTRICAL CODE (CEC).  20. EXACT CONDUIT TERMINATIONS FOR EQUIPMENT SUCH AS EMERGENCY GENERATOR SHALL BE AS REQUIRED BY THE EQUIPMENT FURNISHED. CONTRACTOR SHALL VERIFY WITH APPROVED SHOP DRAWINGS PRIOR TO TERMINATION OF THE REQUIRED CONDUITS.  21. FIELD VERIFICATIONS OF EXISTING UNDERGROUND UTILITIES SUCH AS SEWER, WATER PIPING, ELECTRICAL ETC ARE REQUIRED TO AVOID DAMAGE TO THEM. POT HOLING AND HAND DIGGING AS REQUIRED FOR NO EXTRA COST TO THE OWNER.  22. CABLES USED INTERNALLY TO ELECTRICAL PANELS SHALL BE MTW 600V RATED.  23. SEE SPECS SECTION 01040-COORDINATION AND PROJECT REQUIREMENTS FOR DETAILED PROJECT CONSTRAINTS.				
NORMALLY OPEN	NORMALLY CLOSE	DEFINITION																																									
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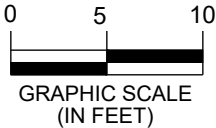


SHEET NOTES:

- 1
- EXISTING EMERGENCY GENERATOR AND ALL ASSOCIATED EQUIPMENT AND DEVICES SHALL BE DISCONNECTED AND REMOVED.
- 2
- SEE DRAWING E-2 FOR REQUIRED MODIFICATION IN THIS EXISTING MCC.
- 3
- COREDRIILL WALL AS REQUIRED FOR CONDUITS ENTERING THE BUILDING.
- 4
- IN THIS EXISTING CONTROL SECTION, FURNISH AND INSTALL NEW PLC I/O CARD AND WIRE NEW SIGNALS AS PER DETAILS SHOWN ON DRAWING E-12.
- 5
- SEE GENERAL NOTE 21 ON DRAWING E-1.
- 6
- NEMA 4X - EMERGENCY SHUTOFF STATION WITH RING GUARD MOUNTED ON EXTERIOR OF THE GENSET'S ENCLOSURE.



A PARTIAL SITE PLAN
SCALE: AS SHOWN

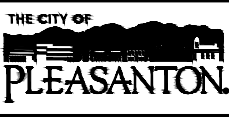


B ENLARGED PLAN - PUMP BUILDING
SCALE: NTS

ENGINEERS, INC.
Oakland, San Francisco, Orange County, CA



REV.	DATE	DESCRIPTION



CITY OF PLEASANTON
PUBLIC WORKS DEPARTMENT



EMERGENCY GENERATOR REPLACEMENT PROJECT

LAUREL CREEK - ELECTRICAL PLAN AND DETAILS

DESIGN:	TP	SCALE:	1" = 10'-0"	DWG NO.
DRAWN:	DTN	PROJECT NO.:	CIP-XXXX	E-3
CHECKED:	DN	DATE:	APR 30, 2026	16 OF 30
TRAFFIC ENGINEER:	XX			

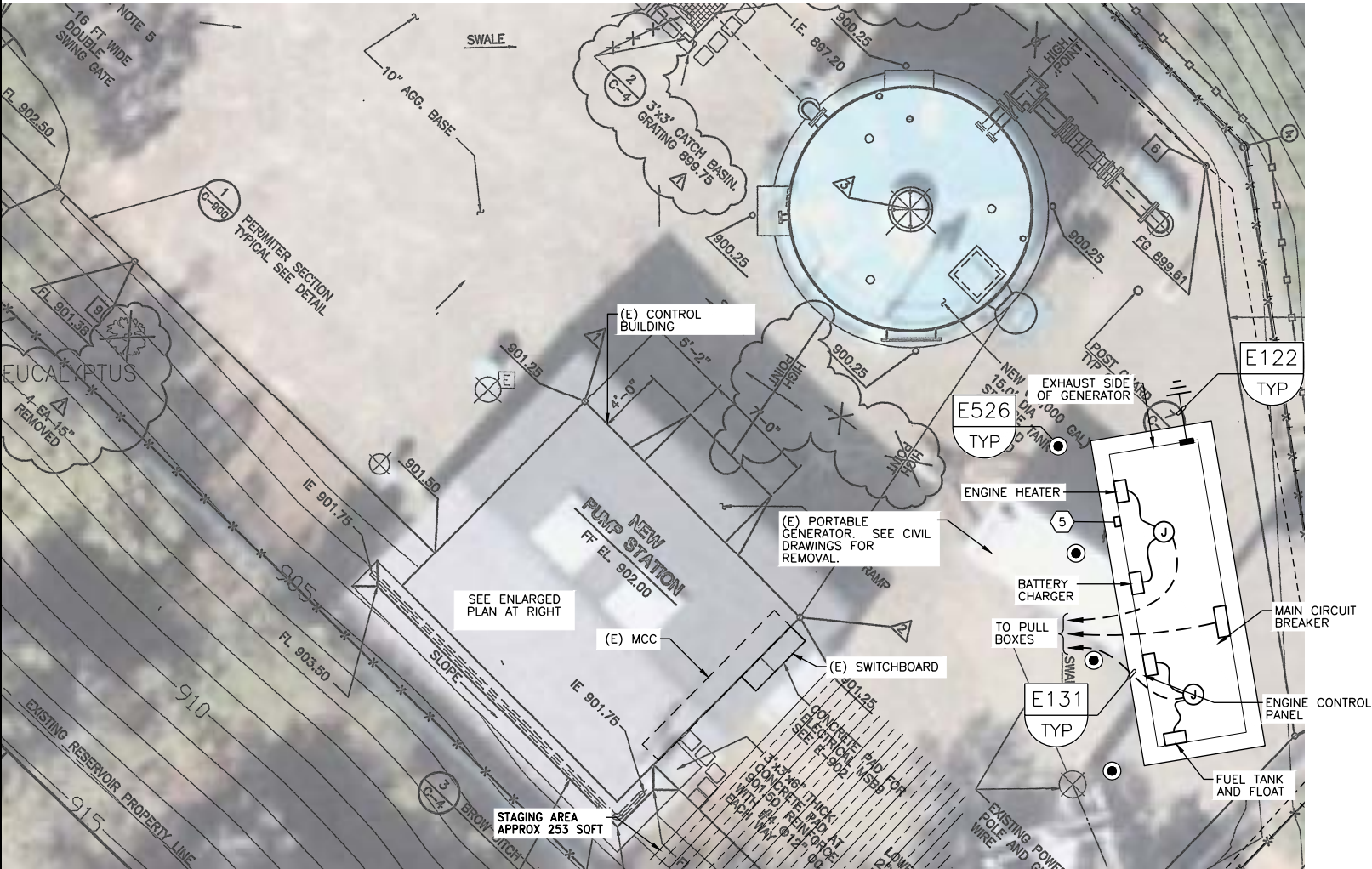


- 1) EXISTING MCC MAIN BREAKER SHALL BE MODIFIED OR REPLACED WITH NEW BREAKER IF NEEDED WITH THE FOLLOWINGS:
- DOUBLE LUGS
 - KIRK KEY INTERLOCK
- NEW BREAKER FOR CAMLOK PANEL SHALL BE EATON TO ATTACH WITH EXISTING BREAKER WITH 65KA SHORT CIRCUIT RATING.
- INTERNAL POWER CABLE SHALL BE MTW 600V RATED, 350KCMIL MINIMUM.
- FOR BIDDING PURPOSES, CONTRACTOR SHALL INCLUDE IN HIS BID THE COSTS FOR REPLACING EXISTING MAIN BREAKER WITH NEW BREAKER. NEW BREAKERS SHALL HAVE 42KA MINIMUM RATING.
- 2) BATTERY CHARGER'S CIRCUIT SHALL BE 120V. HEATER'S CIRCUIT SHALL BE 208V. REQUIRED BREAKERS SHALL BE:
- 120V 20A 1-POLE FOR CHARGER
 - 208V 30A 2-POLE FOR HEATER
- NEW BREAKERS SHALL MATCH EXISTING MAKE AND MODEL.
- 3) SEE DRAWING E-12 FOR WIRING DETAILS.
- 4) FURNISH AND INSTALL A NAMEPLATE:
- "THIS MCC IS SUPPORTED BY AN EMERGENCY GENERATOR LOCATED ON SITE."
- THIS PLATE SHALL BE 3"x4" WITH WHITE BACKGROUND AND RED LETTERING.

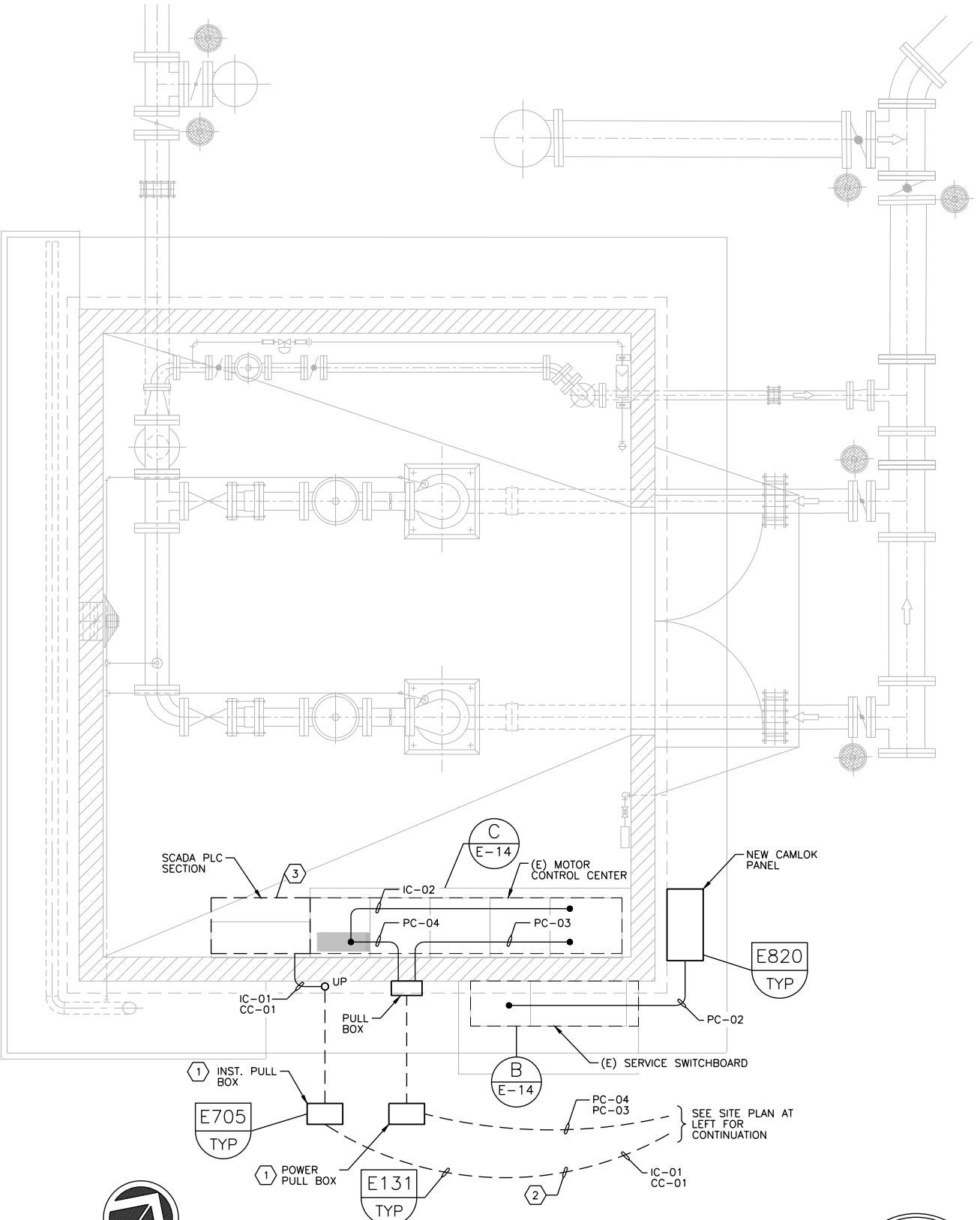
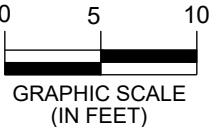
REV.	DATE	DESCRIPTION	 CITY OF PLEASANTON PUBLIC WORKS DEPARTMENT	 WOOD RODGERS DEVELOPING INNOVATIVE DESIGN SOLUTIONS 3301 C St. Bldg. 100-B Tel 916.341.7780 Sacramento, CA 95816 Fax 916.341.7767	EMERGENCY GENERATOR REPLACEMENT PROJECT		DESIGN: TP	SCALE: AS SHOWN	DWG NO.	
					900 SANTOS - SINGLE-LINE DIAGRAMS AND DETAILS		DRAWN: DTN	PROJECT NO.: CIP-XXXX	E-4	17 OF 30
							CHECKED: DN			
							TRAFFIC ENGINEER: XX			

SHEET NOTES:

- 1
- SEE DETAIL E705/TYP ON DRAWING E-17 FOR PHYSICAL SIZE OF UNDERGROUND PULL BOXES.
- 2
- ALL UNDERGROUND CONDUITS SHALL BE INSTALLED AS PER DETAIL E131/TYP ON DRAWING E-16.
- 3
- IN THIS EXISTING CONTROL SECTION, FURNISH AND INSTALL NEW PLC I/O CARD AND WIRE NEW SIGNALS AS PER DETAILS SHOWN ON DRAWING E-12.
- 4
- SEE GENERAL NOTE 21 ON DRAWING E-1.
- 5
- NEMA 4X - EMERGENCY SHUTOFF STATION WITH RING GUARD MOUNTED ON EXTERIOR OF THE GENSET'S ENCLOSURE.



A PARTIAL SITE PLAN



B ENLARGED PLAN - PUMP BUILDING

REV.	DATE	DESCRIPTION

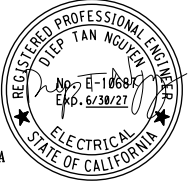


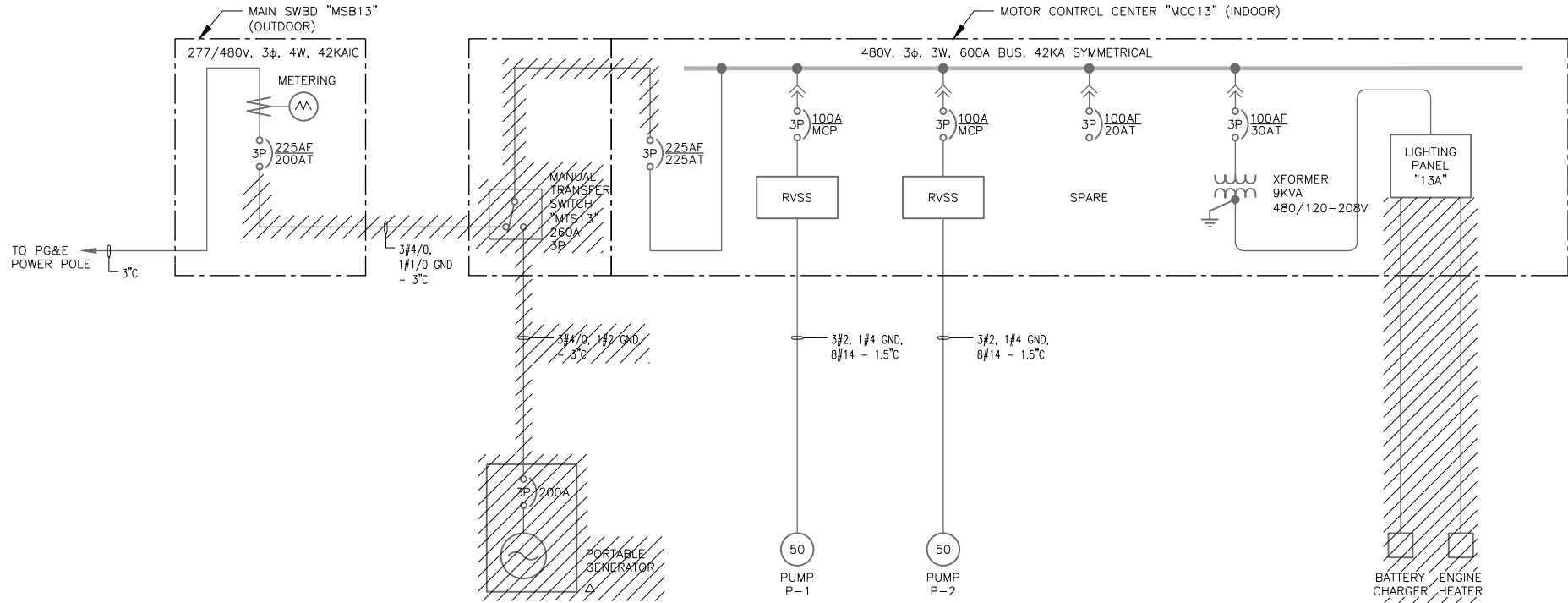
CITY OF PLEASANTON
PUBLIC WORKS DEPARTMENT



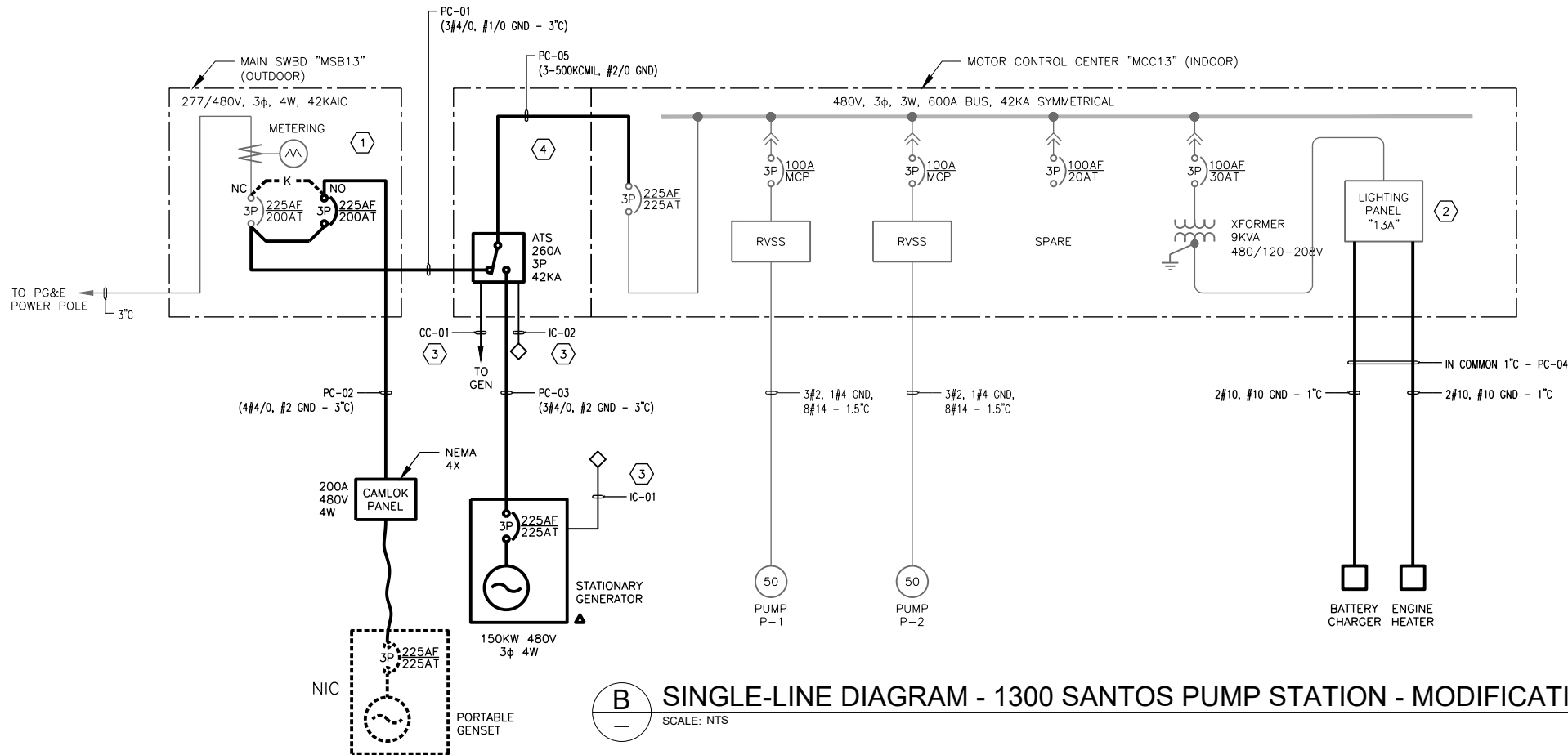
EMERGENCY GENERATOR REPLACEMENT PROJECT
900 SANTOS - ELECTRICAL PLAN AND DETAILS

DESIGN:	TP	SCALE:	AS SHOWN	DWG NO.
DRAWN:	DTN	PROJECT NO.:	CIP-XXXX	E-5
CHECKED:	DN	DATE:	APR 30, 2026	18 OF 30
TRAFFIC ENGINEER:	XX			





A SINGLE-LINE DIAGRAM - 1300 SANTOS PUMP STATION - DEMOLITION
SCALE: NTS



B SINGLE-LINE DIAGRAM - 1300 SANTOS PUMP STATION - MODIFICATIONS
SCALE: NTS

SHEET NOTES:

- 1 EXISTING MCC MAIN BREAKER SHALL BE MODIFIED OR REPLACED WITH NEW BREAKER IF NEEDED WITH FOLLOWINGS:
 - DOUBLE LUGS
 - KIRK KEY INTERLOCK
 NEW BREAKER FOR CAMLOK PANEL SHALL BE EATON TO ATTACH WITH EXISTING BREAKER WITH 65KA SHORT CIRCUIT RATING.
 INTERNAL POWER CABLE SHALL BE MTW 600V RATED, #4/0 MINIMUM.
 FOR BIDDING PURPOSES, CONTRACTOR SHALL INCLUDE IN HIS BID THE COSTS FOR REPLACING EXISTING MAIN BREAKER WITH NEW BREAKER. NEW BREAKERS SHALL HAVE 42KA MINIMUM RATING.
- 2 BATTERY CHARGER'S CIRCUIT SHALL BE 120V. HEATER'S CIRCUIT SHALL BE 208V. REQUIRED BREAKERS SHALL BE:
 - 120V 20A 1-POLE FOR CHARGER
 - 208V 30A 2-POLE FOR HEATER
 NEW BREAKERS SHALL MATCH EXISTING MAKE AND MODEL.
- 3 SEE DRAWING E-12 FOR WIRING DETAILS.
- 4 FURNISH AND INSTALL A NAMEPLATE:
 "THIS MCC IS SUPPORTED BY AN EMERGENCY GENERATOR LOCATED ON SITE."
 THIS PLATE SHALL BE 3"x4" WITH WHITE BACKGROUND AND RED LETTERING.

P:\510 Pleasanton Emergency Generators Replacement\DRAWINGS\510 E-06.dwg 14-24-26 04:46pm TP

REV.	DATE	DESCRIPTION



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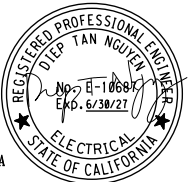


EMERGENCY GENERATOR REPLACEMENT PROJECT

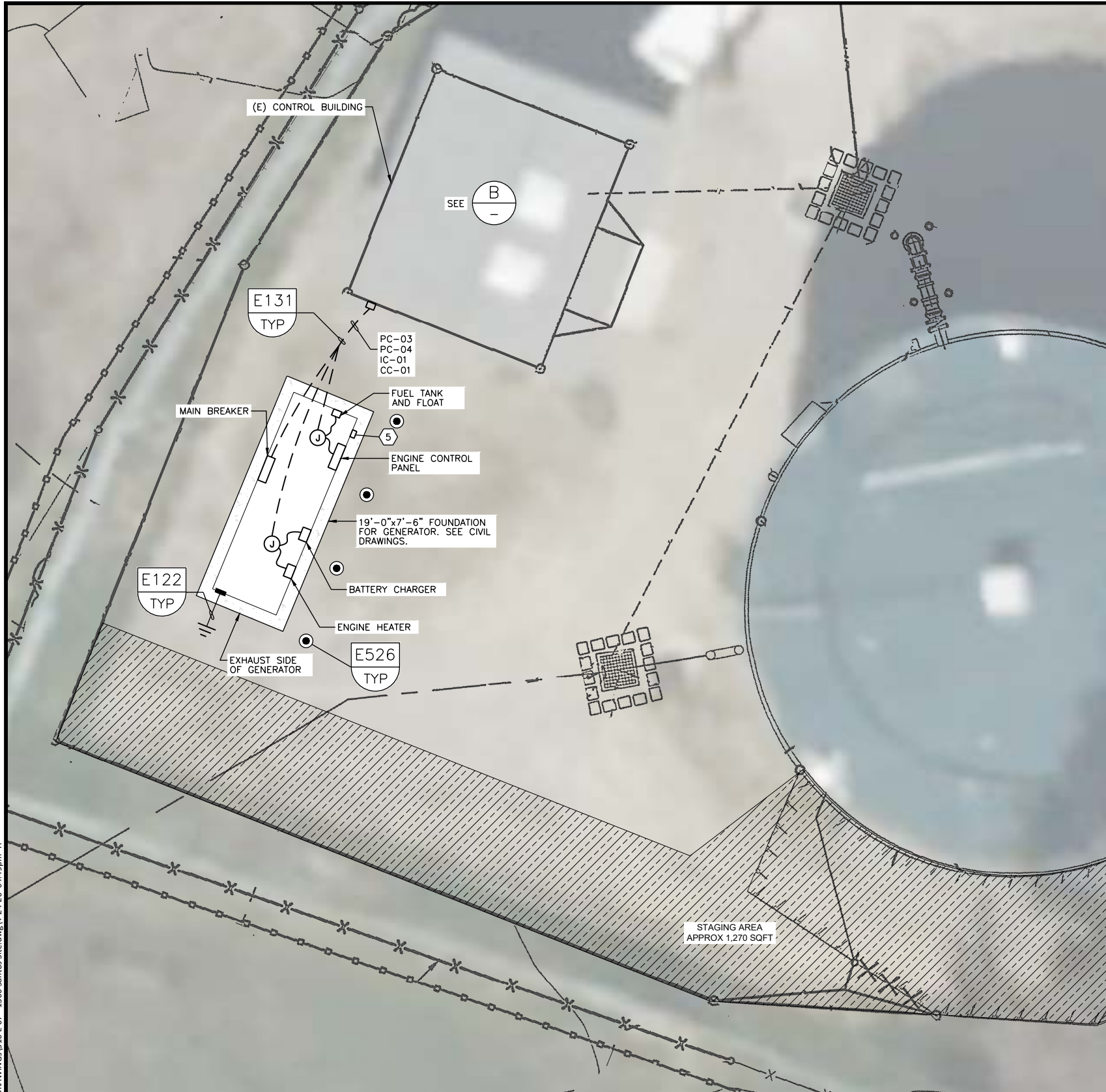
1300 SANTOS - SINGLE-LINE DIAGRAMS AND DETAILS

DESIGN:	TP	SCALE:	AS SHOWN	DWG NO.
DRAWN:	DTN	PROJECT NO.:	CIP-XXXX	E-6
CHECKED:	DN	DATE:	APR 30, 2026	19 OF 30
TRAFFIC ENGINEER:	XX			

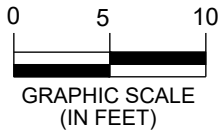
ENGINEERS, INC.
Oakland, San Francisco, Orange County, CA



P:\510 Pleasanton Emergency Generators Replacement\Drawings\510 E-07 - 1300 Santos Site.dwg 4/24/26 04:49pm TP



A PARTIAL SITE PLAN
SCALE: 1" = 5'



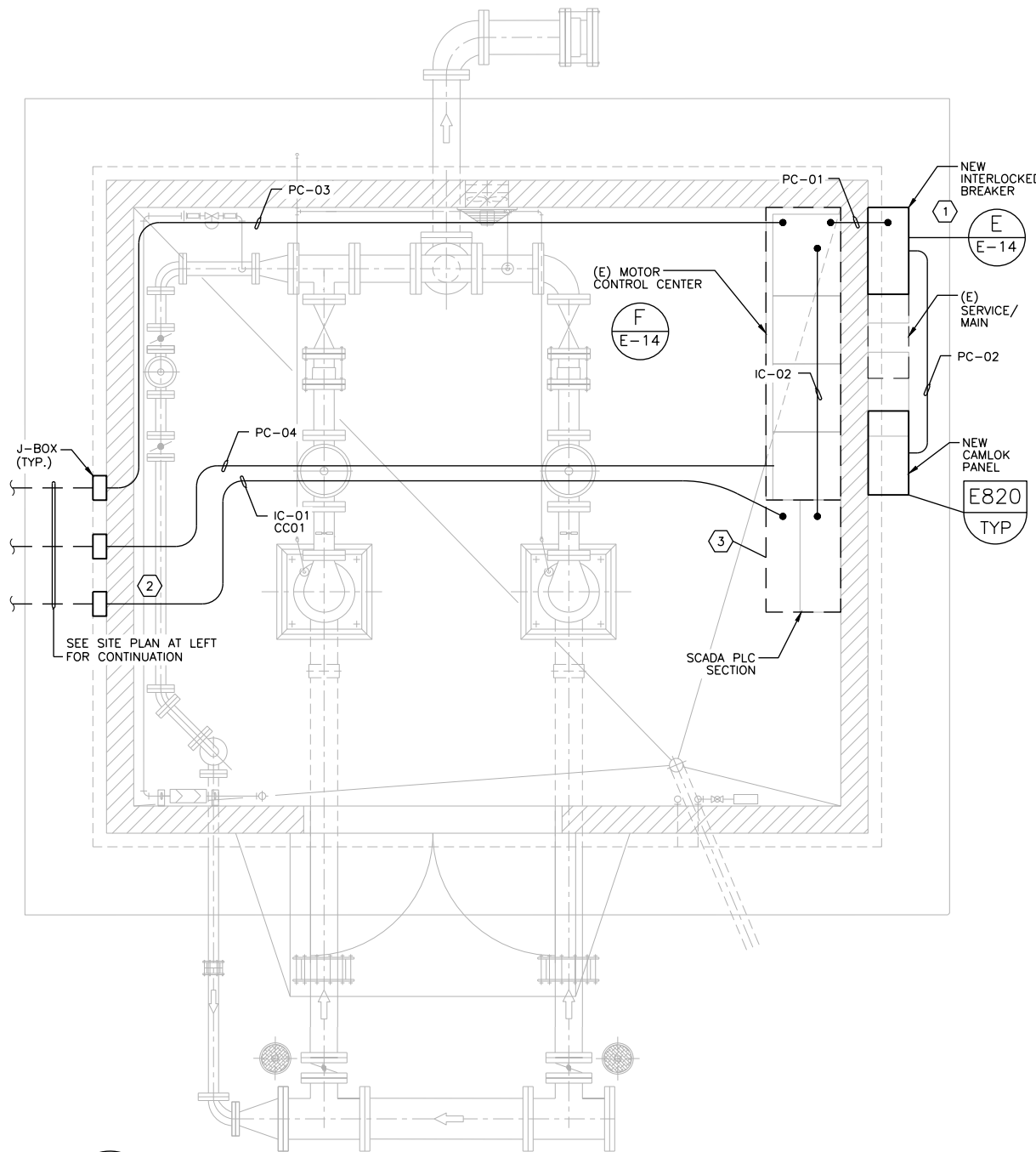
B ENLARGED PLAN - PUMP BUILDING
SCALE: 1/2" = 1'-0"

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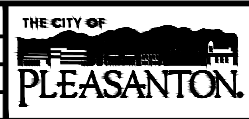


SHEET NOTES:

- 1 RELOCATE EXISTING OUTLET TO MAKE ROOM FOR NEW BREAKER ENCLOSURE SIMILARLY, REMOVE EXISTING CAMLOK PANEL REPLACE IT WITH NEW CAMLOK PANEL.
- 2 CORE DRILL WALL AS REQUIRED FOR CONDUITS ENTERING THE BUILDING FROM THE OUTSIDE (TYPICAL).
- 3 IN THIS EXISTING CONTROL SECTION, FURNISH AND INSTALL NEW PLC I/O CARD AND WIRE NEW SIGNALS AS PER DETAILS SHOWN ON DRAWING E-12.
- 4 SEE GENERAL NOTE 21 ON DRAWING E-1.
- 5 NEMA 4X - EMERGENCY SHUTOFF STATION WITH RING GUARD MOUNTED ON EXTERIOR OF THE GENSET'S ENCLOSURE.



REV.	DATE	DESCRIPTION

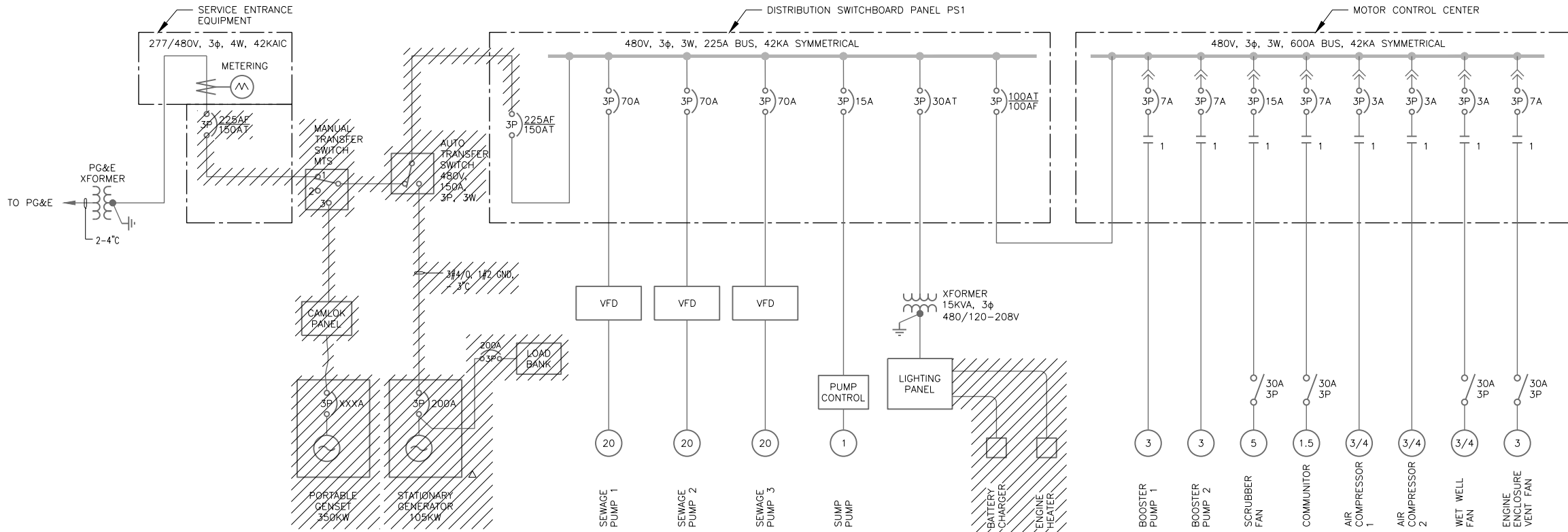


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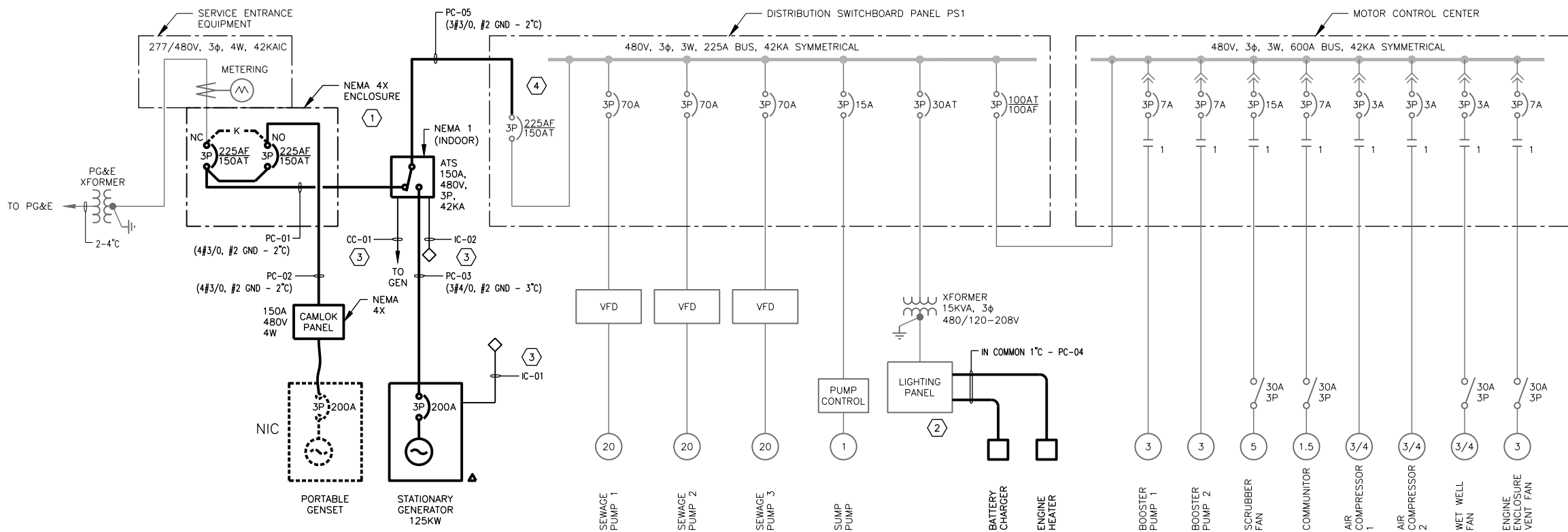


EMERGENCY GENERATOR REPLACEMENT PROJECT
1300 SANTOS - ELECTRICAL PLAN AND DETAILS

DESIGN:	TP	SCALE:	AS SHOWN	DWG NO.
DRAWN:	DTN	PROJECT NO.:	CIP-XXXX	E-7
CHECKED:	DN	DATE:	APR 30, 2026	20 OF 30
TRAFFIC ENGINEER:	XX			



A SINGLE-LINE DIAGRAM - S-7 SEWER PUMP STATION - DEMOLITION
SCALE: NTS



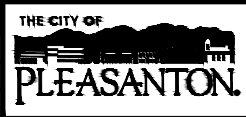
B SINGLE-LINE DIAGRAM - S-7 SEWER PUMP STATION - MODIFICATIONS
SCALE: NTS

SHEET NOTES:

- 1 THIS NEW ENCLOSURE (NEMA 4X) WITH INTERLOCKED BREAKERS AND DOUBLE LUGS, 65KA RATING, SHALL BE INSTALLED AFTER REMOVAL OF THE EXISTING NEMA 3R MAIN BREAKER AS PER DETAIL C/E-15.
RECONNECT BREAKERS TO NEW ATS AND NEW CAMLOK CABINET AS SHOWN.
- 2 BATTERY CHARGER'S CIRCUIT SHALL BE 120V. HEATER'S CIRCUIT SHALL BE 208V. REQUIRED BREAKERS SHALL BE:
 - 120V 20A 1-POLE FOR CHARGER
 - 208V 30A 2-POLE FOR HEATERNEW BREAKERS SHALL MATCH EXISTING MAKE AND MODEL.
- 3 SEE DRAWING E-12 FOR WIRING DETAILS.
- 4 FURNISH AND INSTALL A NAMEPLATE:
"THIS SWITCHBOARD IS SUPPORTED BY AN EMERGENCY GENERATOR LOCATED ON SITE."
THIS PLATE SHALL BE 3"x4" WITH WHITE BACKGROUND AND RED LETTERING.

P:\510 Pleasanton Emergency Generators Replacement\DRAWINGS\510 E-08.dwg 14-24-26 04:47pm TP

REV.	DATE	DESCRIPTION



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PUBLIC WORKS DEPARTMENT

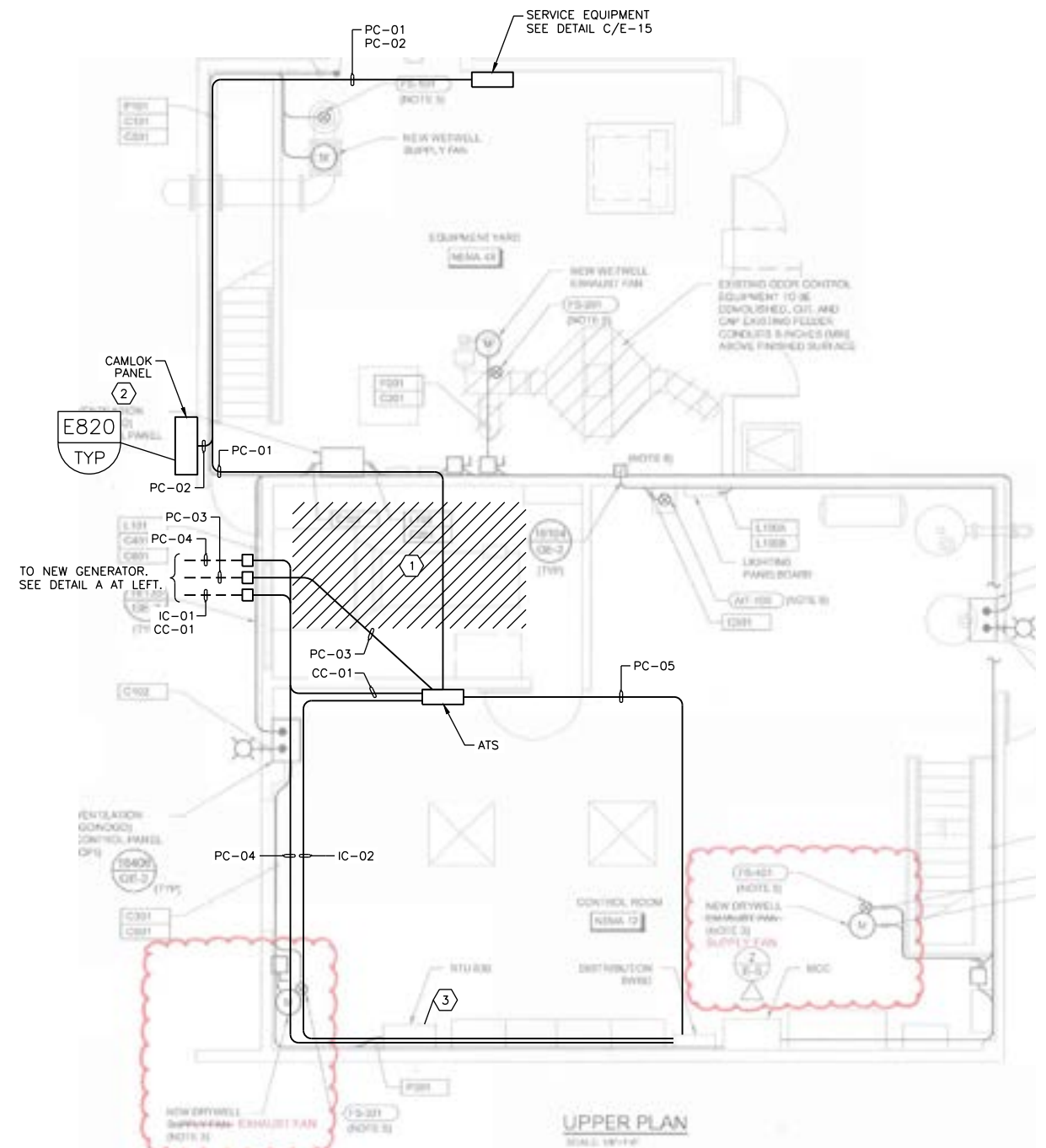
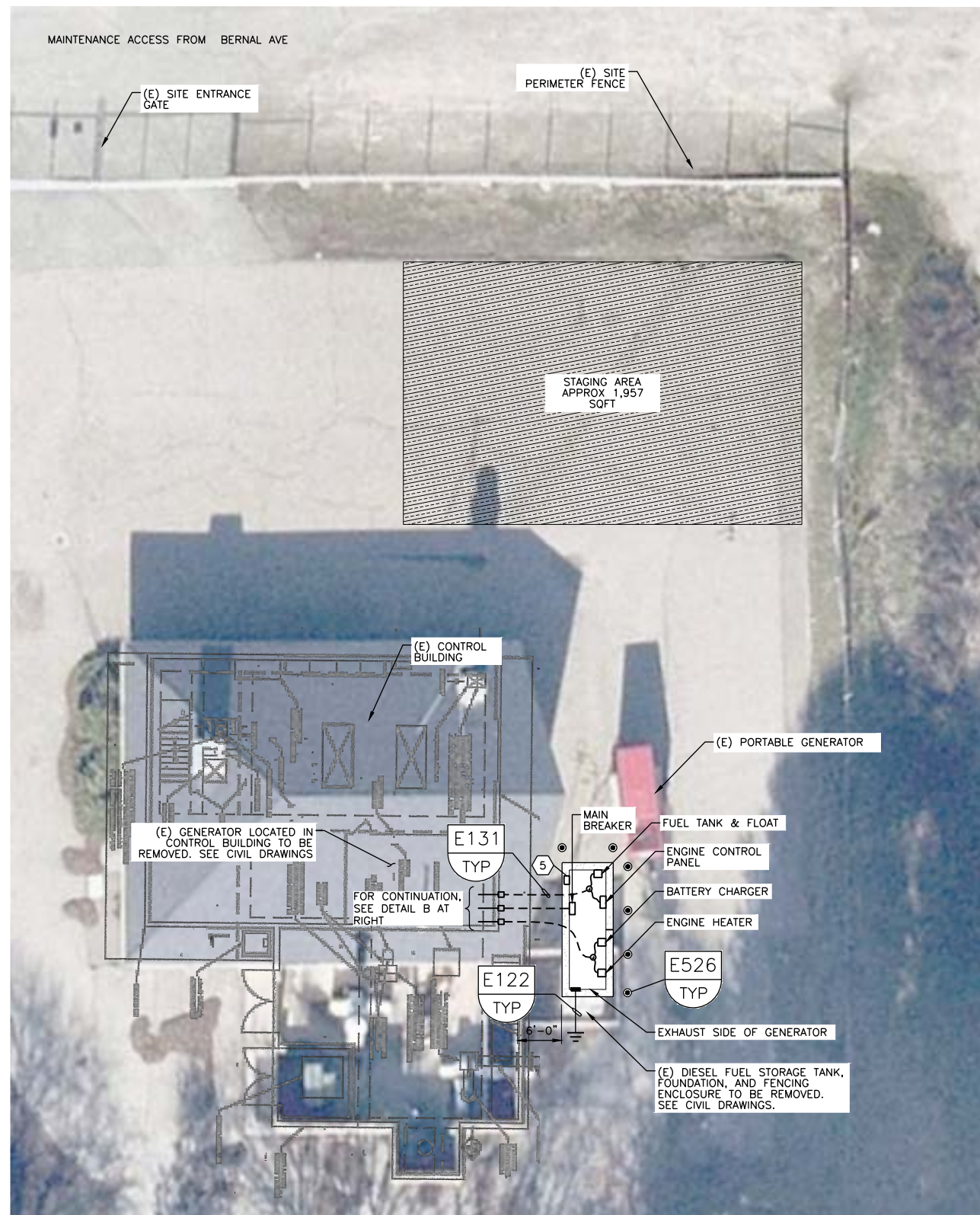


EMERGENCY GENERATOR REPLACEMENT PROJECT
S7 - SINGLE-LINE DIAGRAMS AND DETAILS

DESIGN:	TP	SCALE:	AS SHOWN	DWG NO.
DRAWN:	DTN	PROJECT NO.:	CIP-XXXX	E-8
CHECKED:	DN	DATE:	APR 30, 2026	21 OF 30
TRAFFIC ENGINEER:	XX			

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Oakland, San Francisco, Orange County, CA





- SHEET NOTES:

- 1 EXISTING GENERATOR AND ASSOCIATED EQUIPMENT SHALL BE DISCONNECTED AND REMOVED.
- 2 DISCONNECT AND REMOVE EXISTING CAMLOK PANEL PRIOR TO INSTALLING NEW PANEL.
- 3 IN THIS EXISTING CONTROL SECTION, FURNISH AND INSTALL NEW PLC I/O CARD AND WIRE NEW SIGNALS AS PER DETAILS SHOWN ON DRAWING E-12.
- 4 SEE GENERAL NOTE 21 ON DRAWING E-1.
- 5 NEMA 4X - EMERGENCY SHUTOFF STATION WITH RING GUARD MOUNTED ON EXTERIOR OF THE GENSET'S ENCLOSURE.

REV.	DATE	DESCRIPTION



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PUBLIC WORKS DEPARTMENT

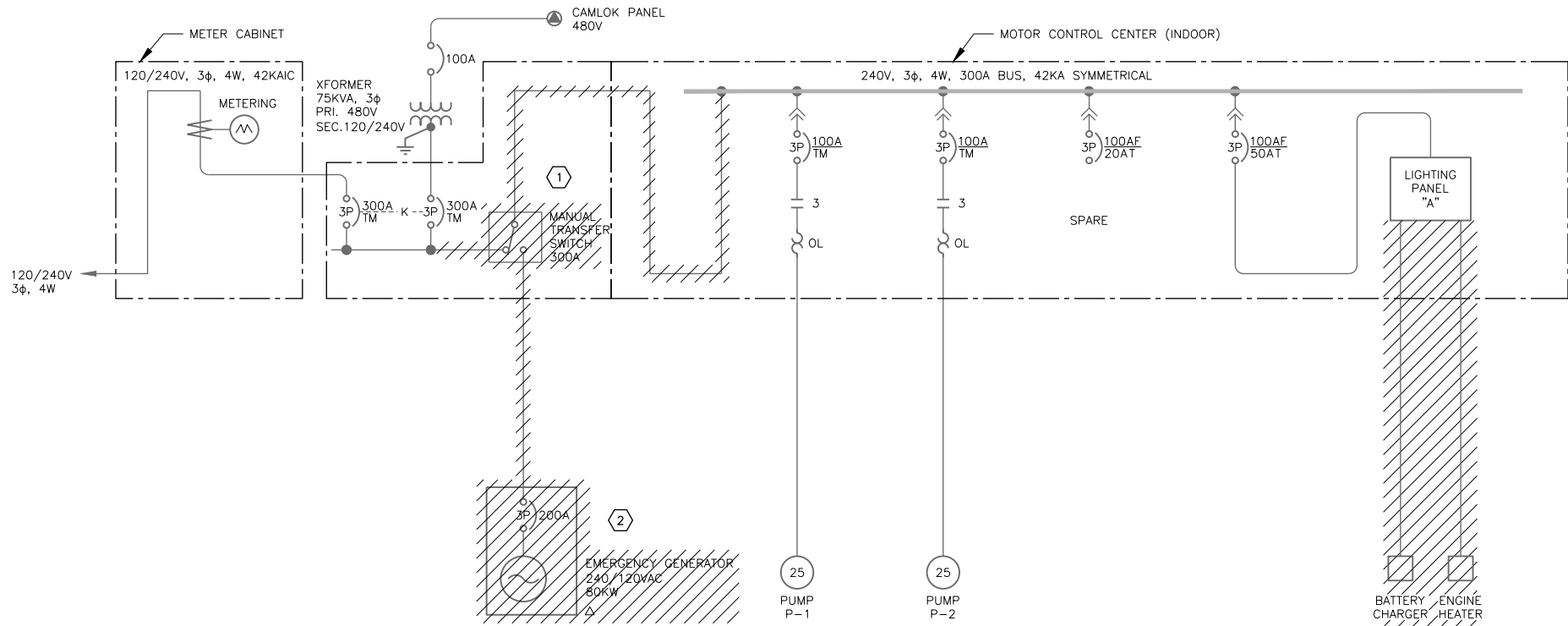


EMERGENCY GENERATOR REPLACEMENT PROJECT

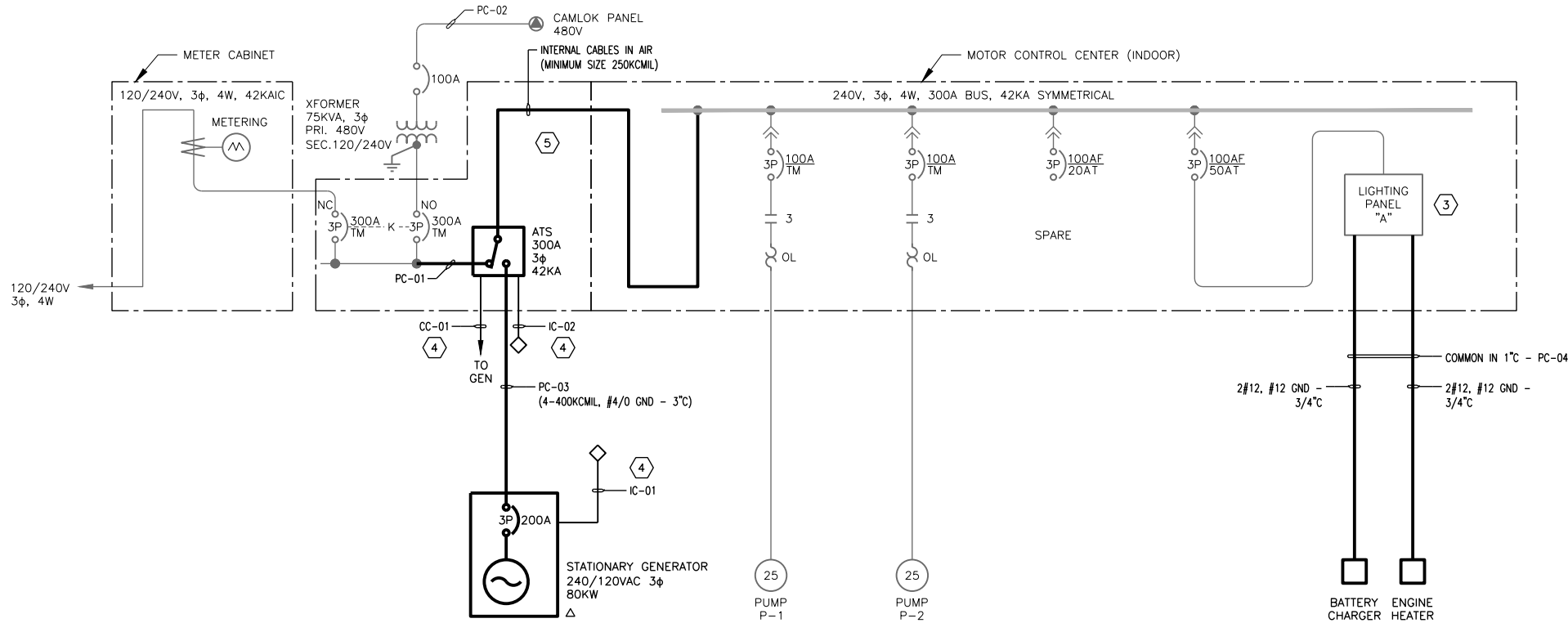
S-7 - ELECTRICAL PLAN AND DETAILS

DESIGN:	TP	SCALE:	AS SHOWN	DWG NO. E-9 22 OF 30
DRAWN:	DTN	PROJECT NO.:	CIP-XXXX	
CHECKED:	DN	DATE:	APR 30, 2026	
TRAFFIC ENGINEER:	XX			





A SINGLE-LINE DIAGRAM - S-12 SEWER PUMP STATION - DEMOLITION
SCALE: NTS



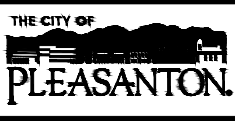
B SINGLE-LINE DIAGRAM - S-12 SEWER PUMP STATION - MODIFICATIONS
SCALE: NTS

SHEET NOTES:

- SEE DETAIL F/E-15 FOR LOCATION OF MTS AND REQUIRED WORK.
- SEE DETAIL E/E-15 FOR DEMOLITION REQUIREMENTS.
- BATTERY CHARGER'S CIRCUIT SHALL BE 120V. HEATER'S CIRCUIT SHALL BE 208V. REQUIRED BREAKERS SHALL BE:
 - 120V 20A 1-POLE FOR CHARGER
 - 208V 30A 2-POLE FOR HEATERNEW BREAKERS SHALL MATCH EXISTING MAKE AND MODEL.
- SEE DRAWING E-12 FOR WIRING DETAILS.
- FURNISH AND INSTALL A NAMEPLATE:
"THIS MCC IS SUPPORTED BY AN EMERGENCY GENERATOR LOCATED ON SITE."
THIS PLATE SHALL BE 3"x4" WITH WHITE BACKGROUND AND RED LETTERING.

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REV.	DATE	DESCRIPTION



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EMERGENCY GENERATOR REPLACEMENT PROJECT

S-12 - SINGLE-LINE DIAGRAMS AND DETAILS

DESIGN:	TP	SCALE:	AS SHOWN	DWG NO.
DRAWN:	DTN	PROJECT NO.:	CIP-XXXX	E-10
CHECKED:	DN	DATE:	APR 30, 2026	23 OF 30
TRAFFIC ENGINEER:	XX			

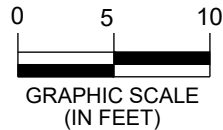
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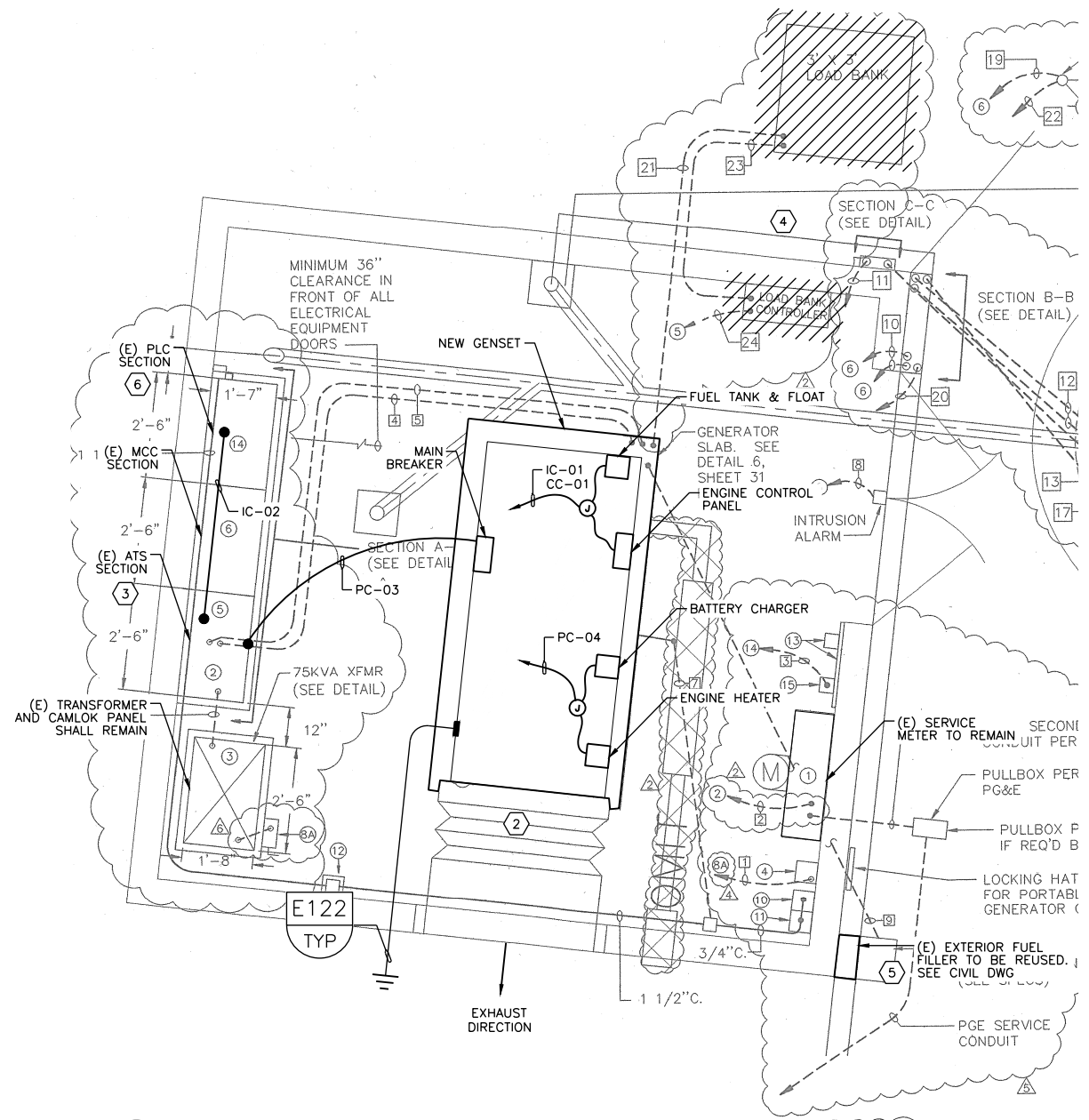
P:\510 Pleasanton Emergency Generators Replacement\DRAWINGS\510 E-11 - S12 Site.dwg 4/24/26 04:47pm TP



A PARTIAL SITE PLAN
SCALE: AS SHOWN



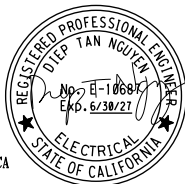
B ENLARGED PLAN - CONTROL BUILDING
SCALE: NTS



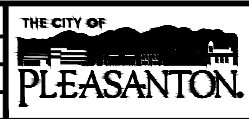
SHEET NOTES:

- 1 SEE ENLARGED PLAN, DETAIL B ON THIS DRAWING FOR DETAILS.
- 2 DISCONNECT AND REMOVE EXISTING GENERATOR AND ACCESSORIES PRIOR TO INSTALLING NEW GENSET AT SAME LOCATION. SEE DETAIL E/E-15.
- 3 DISCONNECT AND REMOVE EXISTING ATS PRIOR TO INSTALLING NEW ATS AS PER THE SINGLE-LINE DIAGRAM SHOWN ON DWG E-10 AND ALSO SEE DETAIL F/E-15.
- 4 DISCONNECT AND REMOVE EXISTING LOAD BANK AND CONTROLLER.
- 5 DISCONNECT EXISTING FUEL FILLER STATION PRIOR TO INSTALLING NEW GENSET AND RECONNECT FILLER STATION AT SAME LOCATION. SEE CIVIL DRAWING FOR MORE DETAILS.
- 6 IN THIS EXISTING CONTROL SECTION, FURNISH AND INSTALL NEW PLC I/O CARD AND WIRE NEW SIGNALS AS PER DETAILS SHOWN ON DRAWING E-12.

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REV.	DATE	DESCRIPTION



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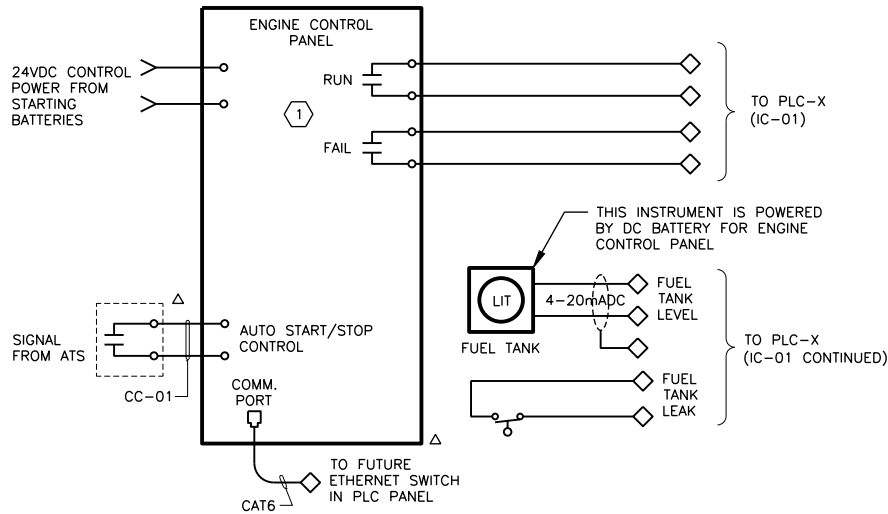
EMERGENCY GENERATOR REPLACEMENT PROJECT

S-12 - ELECTRICAL PLAN AND DETAILS

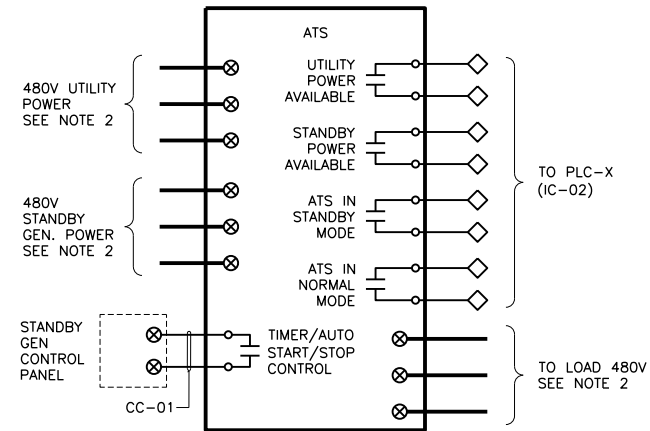
DESIGN:	TP	SCALE:	AS SHOWN	DWG NO.
DRAWN:	DTN	PROJECT NO.:	CIP-XXXX	E-11
CHECKED:	DN	DATE:	APR 30, 2026	24 OF 30
TRAFFIC ENGINEER:	XX			

SHEET NOTES:

- 1 SEE COMPLETE SIGNALS ON WIRING DIAGRAMS SHOWN AT RIGHT.
- 2 EXACT MAKE AND MODEL OF THE I/O CARD AT EACH PUMP STATION SHALL BE AS DETERMINED BY TESCO WHO SHALL BE RESPONSIBLE FOR ALL PLC WORK IN THIS PROJECT.
- 3 IC-01 (1 PAIR AND 20#14 - 1"C)
- 4 a. IC-02 (8#14 - 1"C)
b. CC-01 (4#14 (2 SPARES) - 1"C)

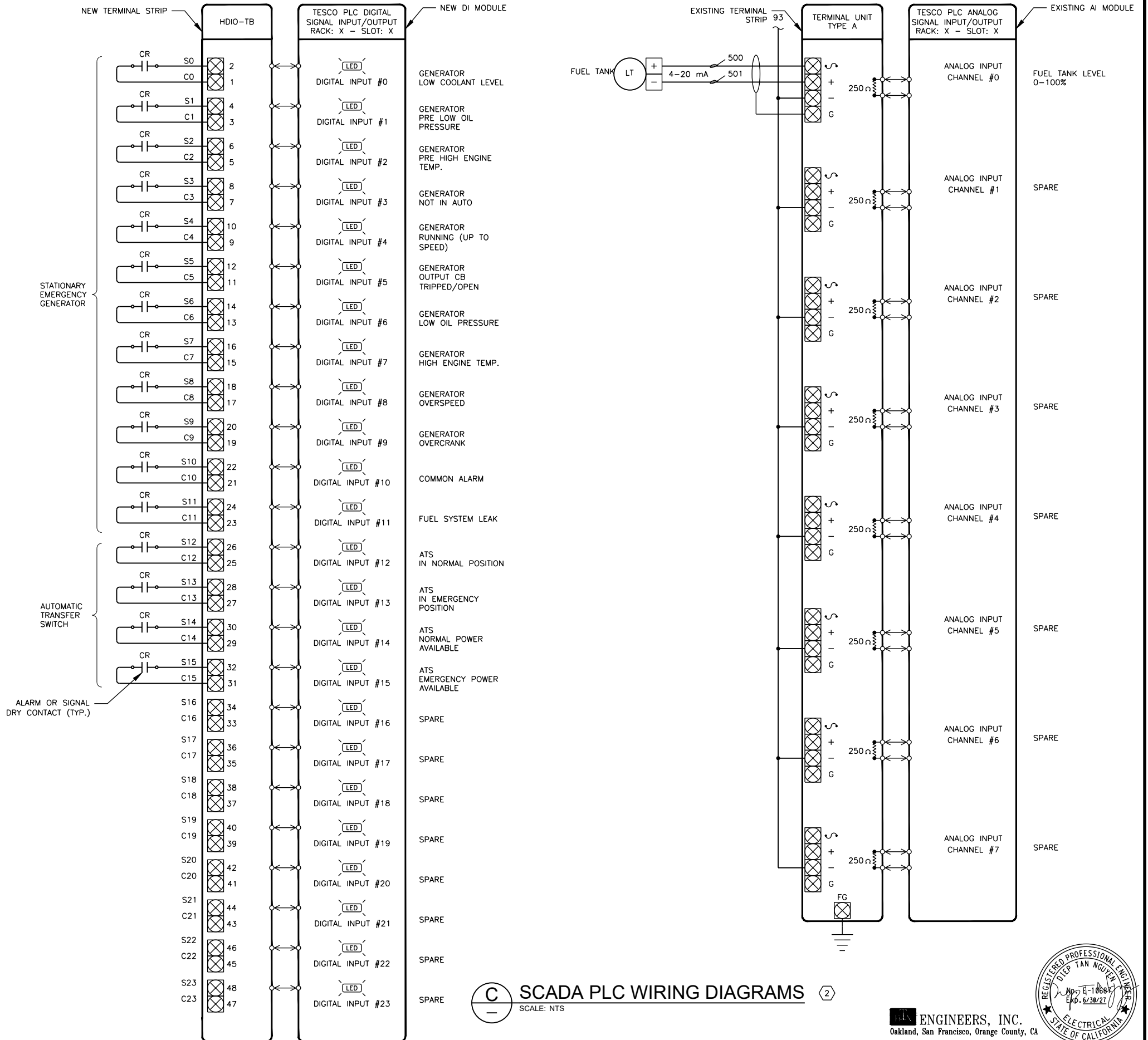


A EMERGENCY GENERATOR CONTROL DIAGRAM (3)
SCALE: NTS



- NOTES:
1. GROUNDING CABLES ARE REQUIRED BUT NOT SHOWN FOR CLARITY.
2. 240V FOR S-12 SEWER LIFT STATION.

B ATS CONTROL DIAGRAM (4)
SCALE: NTS



C SCADA PLC WIRING DIAGRAMS (2)
SCALE: NTS

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A LAUREL CREEK BOOSTER STATION
(E) PERMANENT GENERATOR
SCALE: NTS



B LAUREL CREEK BOOSTER STATION
(E) SERVICE SWITCHBOARD
SCALE: NTS



C LAUREL CREEK BOOSTER STATION
(E) MOTOR CONTROL CENTER
SCALE: NTS



D LAUREL CREEK BOOSTER STATION
(E) MOTOR CONTROL CENTER
SCALE: NTS

SHEET NOTES:

- 1 REMOVE EXISTING GENERATOR AND RELATED EQUIPMENT AND DEVICES LOCATED IN THIS ROOM. REFER TO DIV 26 FOR DETAILED DEMOLITION REQUIREMENTS.
- 2 FURNISH AND INSTALL A NEW 300A 3P CIRCUIT BREAKER LOCATED ADJACENT TO EXISTING MAIN BREAKER AND MODIFY IT PER SINGLE-LINE DIAGRAM INCLUDING KIRK-KEY INTERLOCK.
- 3 IN THIS EXISTING CONTROL SECTION, FURNISH AND INSTALL NEW PLC I/O CARD AND WIRE NEW SIGNALS AS PER DETAILS SHOWN ON DRAWING E-12.
- 4 DISCONNECT CONTROL WIRINGS FROM THIS EXISTING ATS TO THE EXISTING GENERATOR WHICH SHALL BE REMOVED AND WIRE NEW CONTROL SIGNAL TO NEW EMERGENCY GENERATOR. EXISTING POWER CONNECTIONS AND MONITORING SIGNALS FROM THIS ATS SHALL REMAIN.

P:\510 Pleasanton Emergency Generators Replacement\DRAWINGS\510 E-13.dwg 4-24-26 04:47pm TP

REV.	DATE	DESCRIPTION



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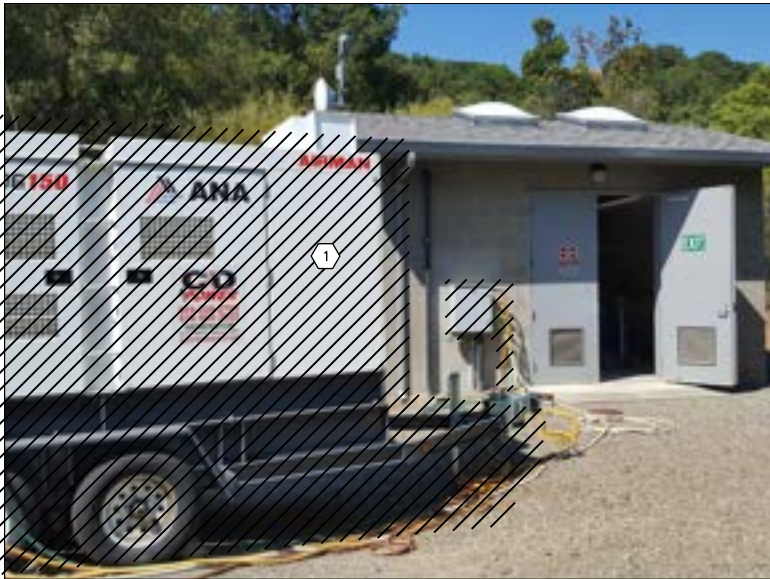


EMERGENCY GENERATOR REPLACEMENT PROJECT	
CONSTRUCTION AND DEMOLITION DETAILS - SHEET 1	

DESIGN:	TP	SCALE:	AS SHOWN	DWG NO.
DRAWN:	DTN	PROJECT NO.:	CIP-XXXX	E-13
CHECKED:	DN	DATE:	APR 30, 2026	
TRAFFIC ENGINEER:	XX			26 OF 30

ENGINEERS, INC.
Oakland, San Francisco, Orange County, CA





A SANTOS 900 BOOSTER STATION
(E) TEMPORARY GENERATOR
SCALE: NTS



B SANTOS 900 BOOSTER STATION
(E) SERVICE SWITCHBOARD
SCALE: NTS



C SANTOS 900 BOOSTER STATION
(E) MOTOR CONTROL CENTER
SCALE: NTS

SHEET NOTES:

- 1 DISCONNECT AND REMOVE TEMPORARY GENSET AND EXISTING CAMLOK PANEL PRIOR TO INSTALLATION OF NEW PERMANENT GENERATOR. RETURN PORTABLE GENSET TO THE OWNER.
- 2 MODIFY EXISTING MAIN BREAKER AND FURNISH, INSTALL NEW BREAKER WITH KIRK-KEY INTERLOCK AS SHOWN PER SINGLE-LINE DIAGRAM ON DRAWING E-4. BREAKERS SHALL HAVE KIRK-KEY INTERLOCKS, 65KA RATED, DOUBLE LUGS FOR CONNECTIONS TO NEW DEVICES. INTERNAL POWER CABLES SHALL BE MTW TYPE, 600V RATED, AND SHALL BE 400 KCML MINIMUM.
- 3 DISCONNECT AND REMOVE EXISTING MANUAL TRANSFER SWITCH IN THIS EXISTING SECTION. FURNISH AND INSTALL NEW ATS IN THIS SECTION AND REWIRE TO NEW DEVICES AS PER SHEET NOTE #2.
- 4 MODIFY EXISTING MAIN BREAKER AND FURNISH, INSTALL NEW BREAKER IN NEMA 3R ENCLOSURE WITH KIRK-KEY INTERLOCK AS SHOWN PER SINGLE-LINE ON DRAWING E-6. BREAKERS SHALL BE 65KA RATED WITH DOUBLE LUGS FOR CONNECTIONS TO NEW DEVICES.
- 5 DISCONNECT AND REMOVE EXISTING MANUAL TRANSFER SWITCH IN THIS EXISTING SECTION. FURNISH AND INSTALL NEW ATS IN THIS SECTION AND REWIRE TO NEW DEVICES AS PER NOTE #4.
- 6 IN THIS EXISTING CONTROL SECTION, FURNISH AND INSTALL NEW PLC I/O CARD AND WIRE NEW SIGNALS AS PER DETAILS SHOWN ON DRAWING E-12.



D SANTOS 1300 BOOSTER STATION
(E) TEMPORARY GENERATOR
SCALE: NTS



E SANTOS 1300 BOOSTER STATION
(E) SERVICE SWITCHBOARD
SCALE: NTS

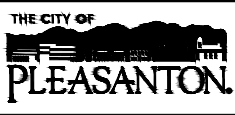


F SANTOS 1300 BOOSTER STATION
(E) MOTOR CONTROL CENTER
SCALE: NTS

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Oakland, San Francisco, Orange County, CA



REV.	DATE	DESCRIPTION



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EMERGENCY GENERATOR REPLACEMENT PROJECT

CONSTRUCTION AND DEMOLITION DETAILS - SHEET 2

DESIGN:	TP	SCALE:	AS SHOWN	DWG NO.
DRAWN:	DTN	PROJECT NO.:	CIP-XXXX	E-14
CHECKED:	DN	DATE:	APR 30, 2026	27 OF 30
TRAFFIC ENGINEER:	XX			



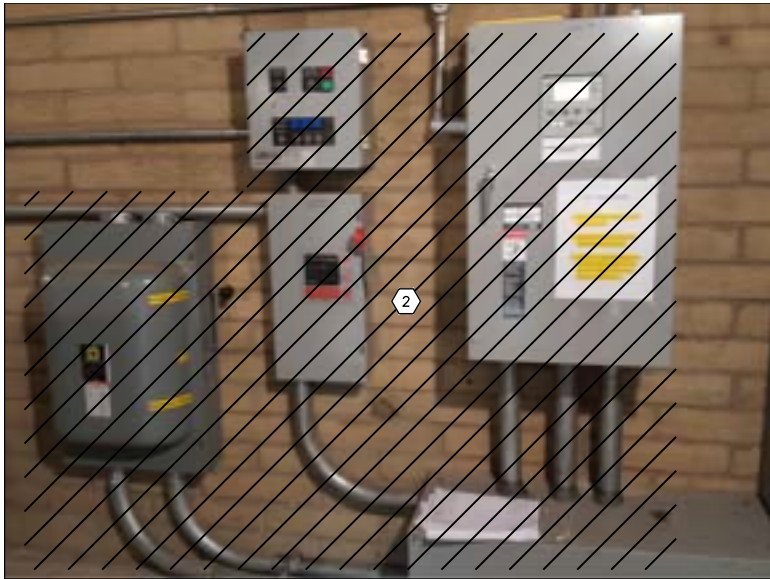
(A) S7 SEWER LIFT STATION
(E) TEMPORARY GENERATOR
SCALE: NTS



(B) S7 SEWER LIFT STATION
(E) STATIONARY GENERATOR
SCALE: NTS



(C) S7 SEWER LIFT STATION
(E) SERVICE METER/BREAKER
SCALE: NTS



(D) S7 SEWER LIFT STATION
(E) ATS & SELECTOR SWITCH
SCALE: NTS



(E) S12 SEWER LIFT STATION
(E) STATIONARY GENERATOR
SCALE: NTS



(F) S12 SEWER LIFT STATION
(E) SWBD BREAKERS & ATS
SCALE: NTS



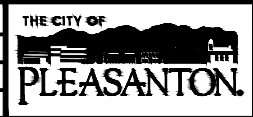
(G) S12 SEWER LIFT STATION
(E) MOTOR CONTROLLER
SCALE: NTS

SHEET NOTES:

- 1 DISCONNECT TEMPORARY GENSET AND PORTABLE CABLES AND RETURN TO THE OWNER.
- 2 DISCONNECT STATIONARY GENSET AND ASSOCIATED EQUIPMENT AND REMOVE THEM. ALL ASSOCIATED CABLES, CONDUIT AND WIRINGS SHALL ALSO BE REMOVED.
- 3 REMOVE EXISTING MAIN SERVICE BREAKER AND REPLACE WITH NEW NEMA 4X ENCLOSURE WITH TWO INTERLOCKED BREAKERS AS SHOWN ON SINGLE-LINE DIAGRAM (DRAWING E-8).
WORK INVOLVING SERVICE SHALL BE FULLY COORDINATED WITH PG&E, AND THE OWNER IN ADVANCE.
- 4 DISCONNECT AND REMOVE EXISTING MTS AND REPLACE WITH NEW ATS AT SAME LOCATION. RECONNECT NEW ATS TO DEVICES PER ONE-LINE DIAGRAM.
- 5 THIS SECTION SHALL REMAIN. NO ELECTRICAL MODIFICATIONS ARE REQUIRED IN THIS SECTION.
- 6 EXISTING REMOTE FUEL FILLING SYSTEM SHALL REMAIN AND SHALL BE REUSED AFTER INSTALLATION OF NEW GENSET.

P:\510 Pleasanton Emergency Generators Replacement\DRAWINGS\510 E-15.dwg 4-24-26 04:50pm TP

REV.	DATE	DESCRIPTION



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PUBLIC WORKS DEPARTMENT

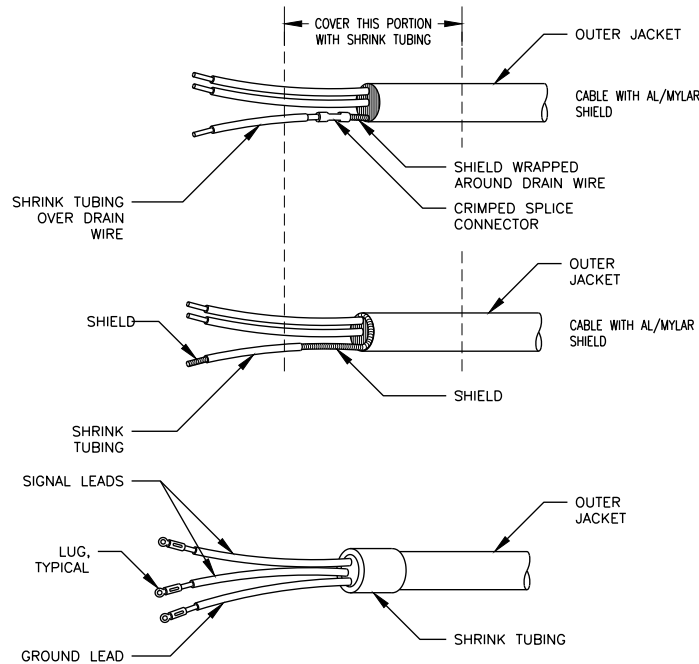


EMERGENCY GENERATOR REPLACEMENT PROJECT
CONSTRUCTION AND DEMOLITION DETAILS - SHEET 3

DESIGN:	TP	SCALE:	AS SHOWN	DWG NO.
DRAWN:	DTN	PROJECT NO.:	CIP-XXXX	E-15
CHECKED:	DN	DATE:	APR 30, 2026	28 OF 30
TRAFFIC ENGINEER:	XX			

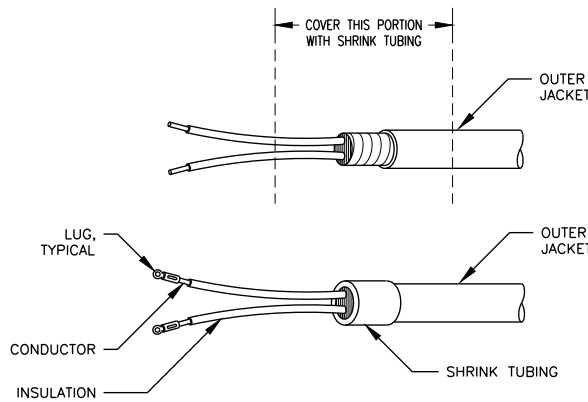


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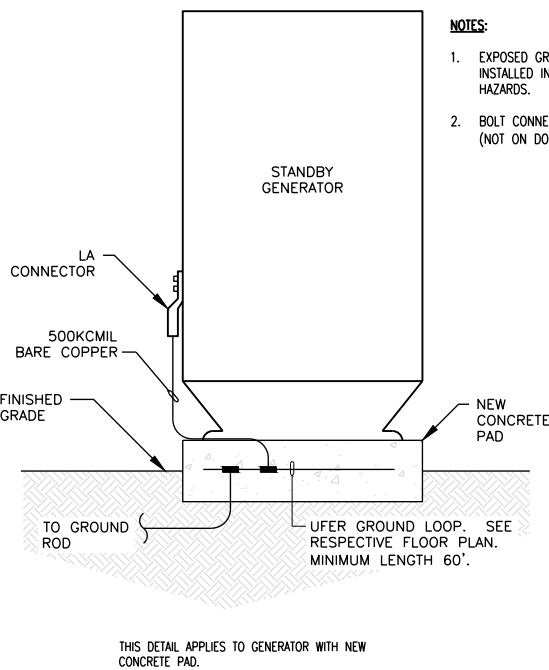
- NOTES:**
1. SHIELD GROUNDED AT TERMINATION CABLES MAY BE MULTIPLE PAIRS.
 2. FOR USE WHENEVER SHIELDED CONTROL CABLES ARE USED, APPLIES AT TERMINATIONS WHERE SHIELD IS TO BE GROUNDED. SEE OTHER DETAILS FOR GROUNDING SHIELD. GROUND ONE END OF CABLE ONLY.

E120 TERMINATION OF SHIELDED CONTROL CABLE
TYP SCALE: NTS (GROUNDED END)



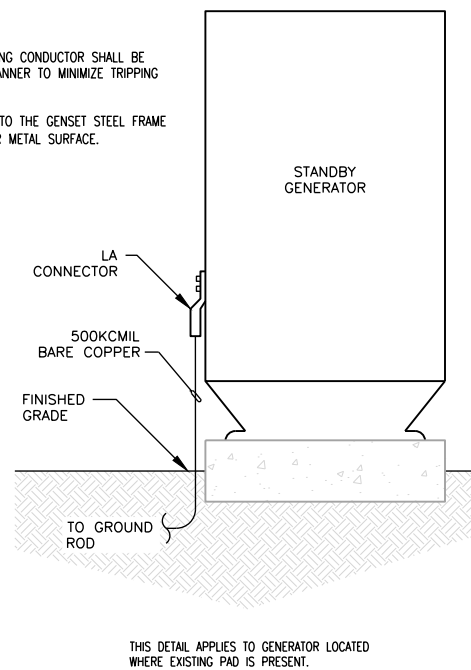
- NOTES:**
1. SHIELD NOT GROUNDED AT TERMINATION.
 2. FOR USE WHENEVER SHIELDED CONTROL CABLES ARE USED, APPLIES AT TERMINATIONS WHERE SHIELD IS NOT GROUNDED. SEE OTHER DETAILS FOR GROUNDING SHIELD. GROUND ONE END OF CABLE ONLY.

E121 TERMINATION OF SHIELDED CONTROL CABLE
TYP SCALE: NTS (UNGROUNDED END)



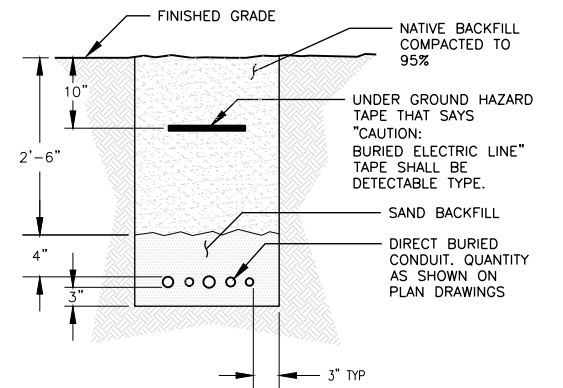
- NOTES:**
1. EXPOSED GROUNDING CONDUCTOR SHALL BE INSTALLED IN A MANNER TO MINIMIZE TRIPPING HAZARDS.
 2. BOLT CONNECTOR TO THE GENSET STEEL FRAME (NOT ON DOOR OR METAL SURFACE).

THIS DETAIL APPLIES TO GENERATOR WITH NEW CONCRETE PAD.



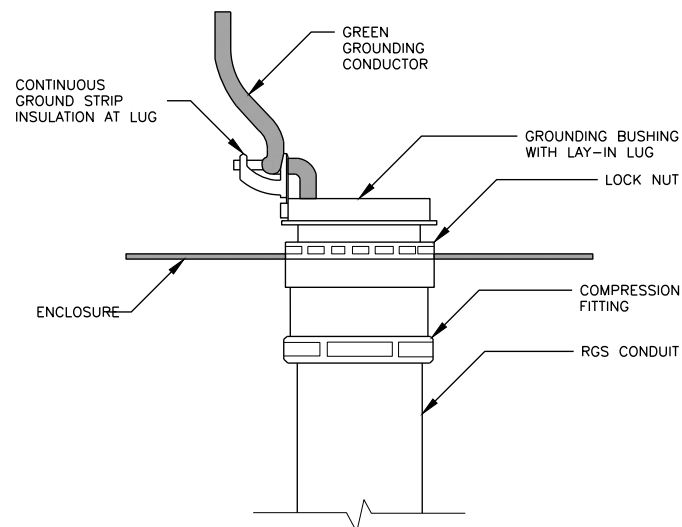
THIS DETAIL APPLIES TO GENERATOR LOCATED WHERE EXISTING PAD IS PRESENT.

E122 STATIONARY EQUIPMENT GROUNDING CONNECTION
TYP SCALE: NTS

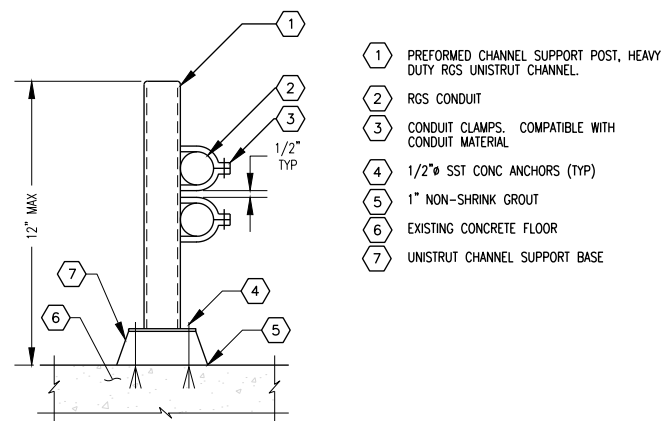


- NOTES:**
1. ALL DIMENSIONS ARE MINIMUM UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
 2. REFER TO SPECIFICATIONS FOR TRENCH BACKFILL REQUIREMENTS.
 3. MINIMUM 12" SEPARATION REQUIRED BETWEEN POWER CONDUIT AND INSTRUMENTATION CONDUIT.

E131 DIRECT BURIED CONDUIT
TYP SCALE: NTS

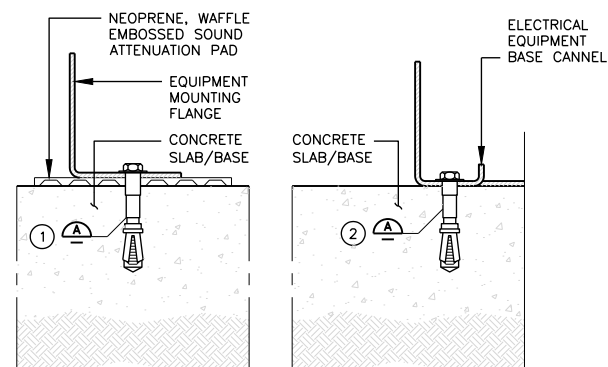


E122 CONDUIT GROUNDING
TYP SCALE: NTS



- NOTES:**
1. COAT ALUMINUM SURFACES IN CONTACT WITH CONCRETE PER SPECS.
 2. USE SST FASTENERS FOR MOUNTING DEVICES.
 3. WEIGHT OF DEVICE(S) SHALL NOT EXCEED 100LBS.
 4. SUPPORTS SHALL BE PROVIDED EVERY 8FT SPACING OF HORIZONTAL RUNS

E301A DETAIL CONDUIT SUPPORT
TYP SCALE: NTS

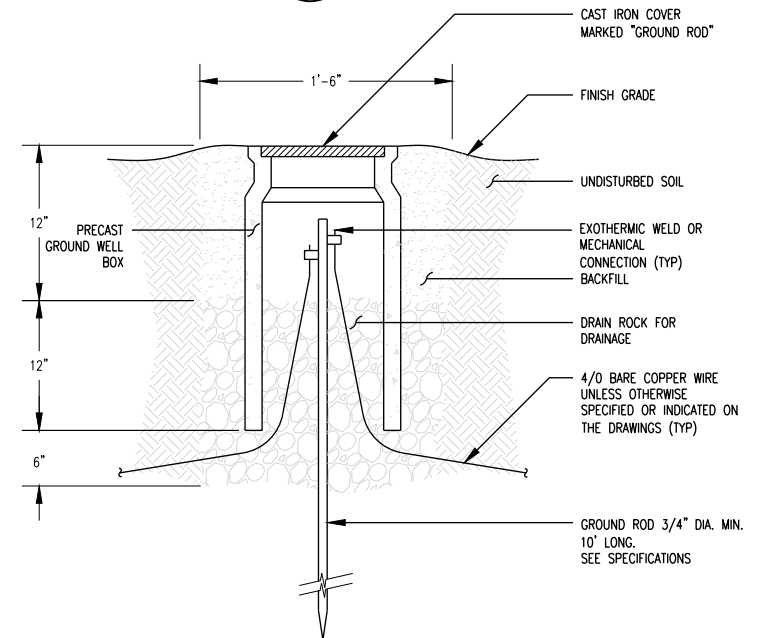


1. SHALL BE USED FOR TRANSFORMER ATTACHMENT.
2. SHALL BE USED FOR MAIN SWITCHBOARD (MSB), MOTOR CONTROL CENTERS (MCC), AND DISTRIBUTION BOARDS.

NOTE:
CONCRETE ANCHOR PER SECTION 05190

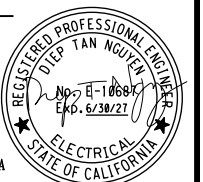
A ANCHOR DETAIL
SCALE: NTS

E326 ELECTRICAL EQUIPMENT MOUNTING DETAIL
TYP SCALE: NTS



E370 GROUND ROD & WELL DETAIL
TYP SCALE: NTS

ENGINEERS, INC.
Oakland, San Francisco, Orange County, CA



REV.	DATE	DESCRIPTION



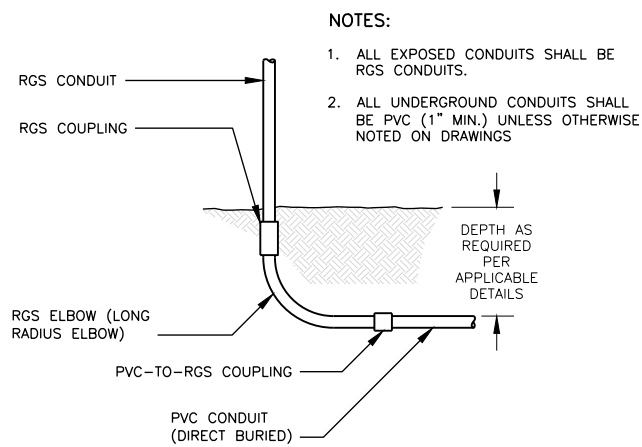
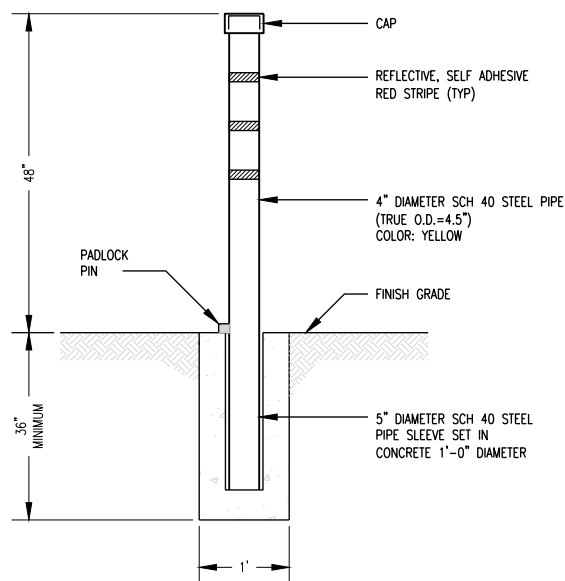
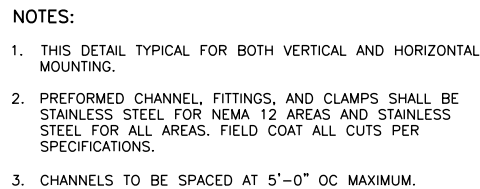
CITY OF PLEASANTON
PUBLIC WORKS DEPARTMENT



EMERGENCY GENERATOR REPLACEMENT PROJECT

TYPICAL CONSTRUCTION DETAILS - SHEET 1

DESIGN:	TP	SCALE:	AS SHOWN	DWG NO.
DRAWN:	DTN	PROJECT NO.:	CIP-XXXX	E-16
CHECKED:	DN	DATE:	APR 30, 2026	29 OF 30
TRAFFIC ENGINEER:	XX			



STEEL TRAXPLATE (SLIP RESISTANT SURFACE) BOLT DOWN LID

NOTES:

- LID SHALL BE ENGRAVED WITH "ELECTRICAL" FOR POWER
- LID SHALL BE ENGRAVED WITH "INSTRUMENTATION" FOR INSTRUMENT CIRCUITS.

STANDARD HEX-HEAD BOLTS INCLUDED

LIFTING HOLE

ELECTRICAL

STEEL DIAMOND PLATE BOLT DOWN LID

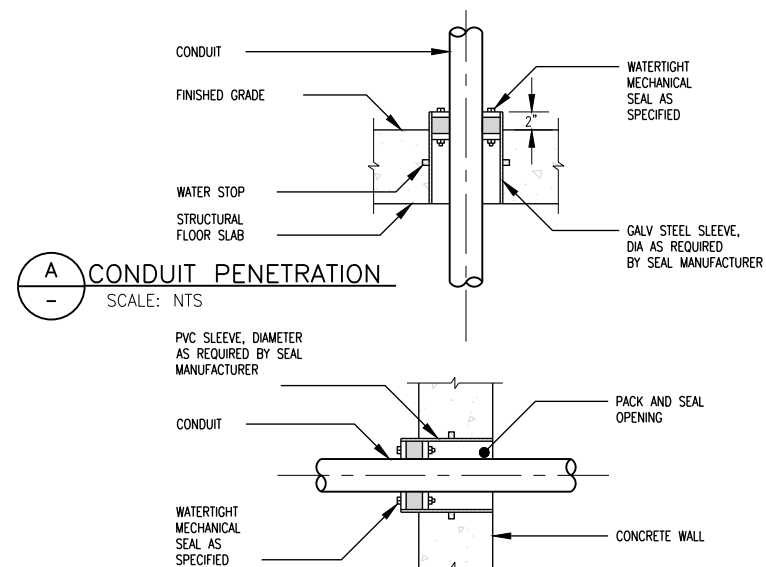
GALVANIZED STEEL WELDED FRAME

BOX

13"x24" (NOMINAL I.D.)

Dimensions:

- Top View: 27" x 16 1/4"
- Side View: 12" height
- Perspective View Dimensions:
 - Overall Length: 29 3/4"
 - Overall Width: 18 1/4"
 - Internal Length: 24 1/4"
 - Internal Width: 13 1/4"
 - Front Panel Height: 24 3/4"
 - Back Panel Height: 14 3/8"
 - Bottom Panel Depth: 15 1/8"



WATERTIGHT CONDUIT PENETRATION

SCALE: NTS

FLANGED TYPE SEALING BUSHING AS SPECIFIED

CONDUIT

CAULK ALL AROUND WITH SILICONE SEALANT PRIOR TO INSTALLING BUSHING

GROUT BEFORE BACKFILLING

CORE DRILLED HOLE

CONCRETE WALL

The diagram illustrates a cross-section of a concrete wall with a core drilled hole. A flanged type sealing bushing is installed in the hole. A conduit is shown entering the bushing from the left. The bushing has a flange that sits against the inner wall of the hole. The space between the bushing and the wall is filled with grout. The area around the bushing is caulked with silicone sealant. The concrete wall is shown with a hatched pattern. Labels with leader lines point to the following components: 'CAULK ALL AROUND WITH SILICONE SEALANT PRIOR TO INSTALLING BUSHING' (pointing to the sealant), 'GROUT BEFORE BACKFILLING' (pointing to the grout), 'CORE DRILLED HOLE' (pointing to the hole), 'CONCRETE WALL' (pointing to the wall), 'FLANGED TYPE SEALING BUSHING AS SPECIFIED' (pointing to the bushing), and 'CONDUIT' (pointing to the pipe).

NOTE: FOR CONDUITS 3" AND SMALLER, CAULK ALL AROUND WITH 3M FIRE BARRIER MORTAR, OR EQUAL.

Diagram of a wall-mounted terminal box with the following components labeled:

- WALL-MTD PANEL
- NAME PLATE
- NEMA 4X (316SS) CAMLOK PANEL WITH CIRCUIT BREAKER (100% RATED) AND CAMLOK (MALE) CONNECTORS
- KEY LOCK HANDLE
- LOCKABLE, HINGED, TRAPPED DOOR AT BOTTOM

(*) PANEL FOR S-12 IS EXISTING AND SHALL REMAIN.

1-5/8" MIN.

CONCRETE EXPANSION ANCHOR
MINIMUM 3/8" DIAMETER—SIZED
LARGER AS REQUIRED BASED ON
SUPPORTED LOAD

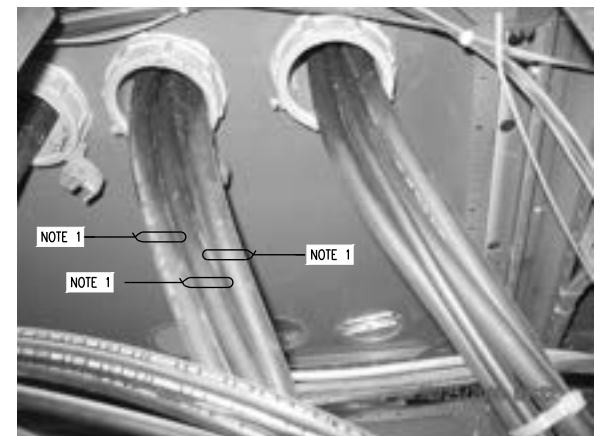
CONCRETE WALL

13/16" DEPTH X 13/16" WIDE
UNISTRUT P6000 OR EQUAL

GALVANIZED OR STAINLESS
BOLT, NUT & LOCK WASHER
AS REQUIRED

EQUIPMENT ENCLOSURE WITH
EXTERNAL MOUNTING BRACKET
(SIMILAR MOUNTING FOR
ENCLOSURES WITH INTERNAL
MOUNTING HOLES)

EQUIPMENT ENCLOSURE
MOUNTING ON CONCRETE WALL



NOTES:

1. EACH POWER CABLE SHALL BE PROVIDED WITH A NON-CORROSIVE TAG INDICATING CIRCUIT NUMBER AND FROM TO DESCRIPTION. SEE DIV. 16 FOR ADDITIONAL DETAILED REQUIREMENTS. THIS TAGGING REQUIREMENT APPLIES TO ALL POWER CIRCUITS.

