

ELECTRICAL SITE PLAN REFERENCE NOTES:

- 1 PROVIDE AND INSTALL A 8" (94") BY 6" CONCRETE PAD PER SCE REQUIREMENTS. CONFIRM EXACT LOCATION OF PAD WITH ARCHITECT PRIOR TO ROUGH-IN. SEE ALSO SCE ISSUED DRAWINGS FOR ADDITIONAL INFORMATION, SPECIFICATIONS AND DETAILS.
- 2 MAINTAIN 8" WORKING CLEARANCE IN FRONT OF THE TRANSFORMER PAD PER SCE REQUIREMENTS. MAINTAIN 36" ON THE OTHER THREE SIDES, MINIMUM. SEE LATEST SCE DETAILS FOR FINAL DESIGN REQUIREMENTS.
- 3 STUB OUT UTILITY CONDUIT +12" PAST THE PROPERTY LINE PER SCE REQUIREMENTS TO THEIR INDICATED POINT OF CONNECTION (POC). CONFIRM FINAL LOCATION AND ROUTING WITH SERVICE PLANNER PRIOR TO TRENCHING. SEE UTILITY COMPANY CONSTRUCTION DOCUMENTS. CONFIRM INDICATED POC WITH SCE PRIOR TO BID.
- 4 NO ELECTRICAL CONDUITS GREATER THAN ONE INCH IN DIAMETER SHALL RUN WITHIN 6' OF LIVING SPACES OR DORMITORIES IN ORDER TO MINIMIZE EXPOSURE TO EMF.
- 5 ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING ALL EXISTING UNDERGROUND CONDUITS, UTILITIES, AND LINES PRIOR TO ANY WORK. CONTACT DIG ALERT PER SCE AND CITY REQUIREMENTS FOR FIELD MARKING.
- 6 MAINTAIN MINIMUM CODE REQUIRED WORKING SPACE CLEARANCE OF 3'-0" ABOUT ELECTRICAL EQUIPMENT, PER NEC ARTICLE 110.26. IN ADDITION, ALL DISCONNECT SWITCHES AND CIRCUIT BREAKER HANDLES SHALL BE INSTALLED SO THAT THE CENTER OF THE GRIP OF THE OPERATING HANDLE WHEN IN THE HIGHEST POSITION IS NOT MORE THAN 6'-7" A.F.F.
- 7 NO PIPING, DUCTS, LEAK PROTECTION APPARATUS, OR OTHER EQUIPMENT FOREIGN TO THE ELECTRICAL INSTALLATION SHALL BE ALLOWED IN THE DEDICATED SPACE ABOVE AND BELOW ELECTRICAL PANELS. THE SPACE EQUAL TO THE WIDTH AND DEPTH OF THE EQUIPMENT AND EXTENDING FROM THE FLOOR TO A HEIGHT OF 6 FEET ABOVE THE ELECTRICAL EQUIPMENT OR TO THE STRUCTURAL CEILING, WHICHEVER IS LOWER, SHALL BE DEDICATED TO THE ELECTRICAL INSTALLATION.
- 8 PROVIDE AND INSTALL VEHICULAR PROTECTION BARRIERS AROUND ALL SIDES OF THE NEW SERVICE EQUIPMENT AND TRANSFORMER SLAB BOX PER SCE REQUIREMENTS. MAINTAIN SPACING REQUIREMENTS PER SCE CONSTRUCTION STANDARDS.
- 9 UNDERGROUND CONDUIT SERVING OR PASSING UNDER FUEL DISPENSING AND OIL STORAGE AREA ARE CONSIDERED TO BE CLASS 1, DIVISION 1 INSTALLATIONS AND SHALL BE DONE IN ACCORDANCE WITH NEC ARTICLE 514 REQUIREMENTS AND INCLUDE RIGID GALVANIZED STEEL CONDUIT WITH NO FITTING OR COUPLING BETWEEN THE SEAL-OFF AND THE END OF THE CONDUIT RUN.
- 10 BRANCH CIRCUIT TO BE ROUTED VIA THE LIGHTING CONTROL PANEL FOR AUTOMATIC CONTROL OF THE LIGHT LUMINAIRES.
- 11 ALL CONDUIT RACEWAY LOCATED BELOW GRADE SHALL BE AT NOT LESS THAN 24" BELOW FINISHED GRADE. PER NEC REQUIREMENTS. SIZE SHALL BE MINIMUM 3/4" IN DIAMETER.
- 12 ALL UTILITY SERVICE CONDUIT RACEWAY LOCATED BELOW GRADE SHALL MEET UTILITY COMPANY SIZE AND REQUIREMENTS. CONFIRM SIZE AND NUMBER OF UTILITY CONDUITS WITH RESPECTIVE UTILITY COMPANY REPRESENTATIVE PRIOR TO INSTALLATION. SEE SCE MAP AND DETAILS FOR ADDITIONAL REQUIREMENTS.
- 13 SINGLE PORT CAR CHARGE STATION: 208V-1PH 30FLA. PROVIDE AND INSTALL AN 8'-6" HIGH BOLLARD MOUNT, LEVEL 2 COMMERCIAL CHARGING STATION MANUFACTURED BY "EUMALUS ELECTRIC". EVSE MODEL FOR INTELLIGENT, COMMERCIAL APPLICATION #EMM-SPB-RET-32 OR PREAPPROVED EQUAL. CONFIRM HEIGHT, SOFTWARE, SERVICE, AND COVERAGE PLAN WITH OWNER'S REP PRIOR TO ORDER. A CELLULAR NETWORK PLAN IS REQUIRED BY COUNTY PREFERENCE. CHARGE LAB SOFTWARE IS OPTION AND TO BE CONFIRMED BY OWNER'S REP PRIOR TO BIDDING. PROVIDE ALL COMPONENTS FOR A TURN-KEY SYSTEM. STATION TO BE DUAL PORT BOLLARD WITH CONCRETE MOUNTING KIT. MAKE ALL LINE VOLTAGE CONNECTIONS TO UNIT. CONFIRM FINAL LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
- 14 NOT USED (PLACEHOLDER FOR DUAL PORT SYSTEM)
- 15 PROVIDE (1) 2"C.O. WITH PULL WIRE FOR TRAFFIC SIGNAL PRE-EMP SYSTEM. STUB OUT PAST PROPERTY FOR FUTURE CONNECTION TO TRAFFIC LIGHT SYSTEM. EXTEND AN OVERHEAD CONDUIT SYSTEM TO ALL SWITCH LOCATIONS INDICATED ON THE POWER AND SIGNAL FLOOR PLANS, AS DIRECTED BY LOS ANGELES COUNTY FIRE DEPARTMENT. CONFIRM FINAL LOCATIONS WITH THE ARCHITECT PRIOR TO ROUGH-IN.
- 16 CONCRETE PULL BOXES 12" BY 22" BY 12" DEEP WITH BASE TO BE BROOKS #2 PB SERIES WITH BOLT-ON CONCRETE COVER OR APPROVED EQUAL. SEE LANDSCAPE CONSTRUCTION DOCUMENTS FOR FINAL SPECIFICATIONS AND LOCATION OF HAND-HOLES. CONFIRM FINAL LOCATION(S) WITH LANDSCAPE ARCHITECT AND OWNER'S REP PRIOR TO INSTALLATION.

BUILDING AND SAFETY DIVISION  
Department of Public Works  
FINAL ENERGY APPROVED  
UNDER CCR TITLE 24, PART 1,  
ARTICLE 1 & PART 6  
AMARKARI  
04/21/2026 3:08:19 PM  
This set of plans and specifications shall be held in full force and effect as long as they are not amended, modified, or changed in any way without the prior written approval of the Building Official. The stamping of this set of plans and specifications shall be held in full force and effect as long as they are not amended, modified, or changed in any way without the prior written approval of the Building Official.

BUILDING AND SAFETY DIVISION  
Department of Public Works  
APPROVED  
UNDER LOS ANGELES COUNTY CODE  
TITLE 27  
AMARKARI  
04/21/2026 3:08:19 PM  
This set of plans and specifications shall be held in full force and effect as long as they are not amended, modified, or changed in any way without the prior written approval of the Building Official. The stamping of this set of plans and specifications shall be held in full force and effect as long as they are not amended, modified, or changed in any way without the prior written approval of the Building Official.

JOINT TRENCH  
PROVIDE AND INSTALL THE FOLLOWING LOW VOLTAGE UNDERGROUND CONDUIT TO THE RESERVE APPARATUS GARAGE:  
(1) 2"C.O. WITH PULL STRING FOR DATA/TEL (INCLUDING LIGHTING CONTROL CAT 5/6)  
(1) 2"C.O. WITH PULL STRING FOR SCU  
(1) 2"C.O. WITH PULL STRING FOR FIRE LIFE SAFETY INTERCONNECTIONS AND REMOTE ANNUNCIATORS,  
(1) 2"C.O. WITH PULL STRING FOR "SPARE",  
ALSO SEE SHEET E1.1 FOR CONTINUATION.

PROVIDE AND INSTALL UNDERGROUND POWER CONDUIT TO MAIN ELECTRICAL ROOM AS INDICATED ON SHEET E3.0 (TO PANELBOARD 'DPA')

PROVIDE AND INSTALL UNDERGROUND POWER CONDUIT TO MAIN ELECTRICAL ROOM AS INDICATED ON SHEET E3.0 (TO TRANSFER SWITCH 'TS-1' AND PANELBOARD 'DPA')

NO ELECTRICAL FEEDER CONDUITS SHALL RUN WITHIN 6' OF THE LIVING SPACES OF DORMITORIES AND THE DAY ROOM IN ORDER TO MINIMIZE EMF.

NO ELECTRICAL BRANCH CIRCUIT CONDUITS GREATER THAN 3/4" IN DIAMETER SHALL RUN WITHIN 6' OF THE LIVING SPACES OF DORMITORIES AND THE DAY ROOM IN ORDER TO MINIMIZE EMF.

ELECTRICAL SITE PLAN  
SCALE: 1/16"=1'-0"  
SCALE: 1/16" = 1'-0"  
16 32 48 64

WILLIAM LOYD JONES  
ARCHITECT

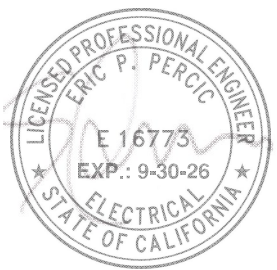
9415 culver boulevard  
culver city, california  
90230

TEL 310 392 3995

ELECTRICAL  
SITE PLAN

FIRE STATION 46  
COUNTY OF LOS ANGELES FIRE DEPARTMENT  
26720 BOMBERO LANE  
VALENCIA, CALIFORNIA

Issue	
SCE REVIEW	03-21-25
DESIGN DEVELOPMENT REVIEW	06-10-25
ISSUE FOR PLAN CHECK	08-12-25
PLAN CHECK CORRECTIONS	11-10-25
DELTA 1 FOR PLAN CHECK	03-31-26



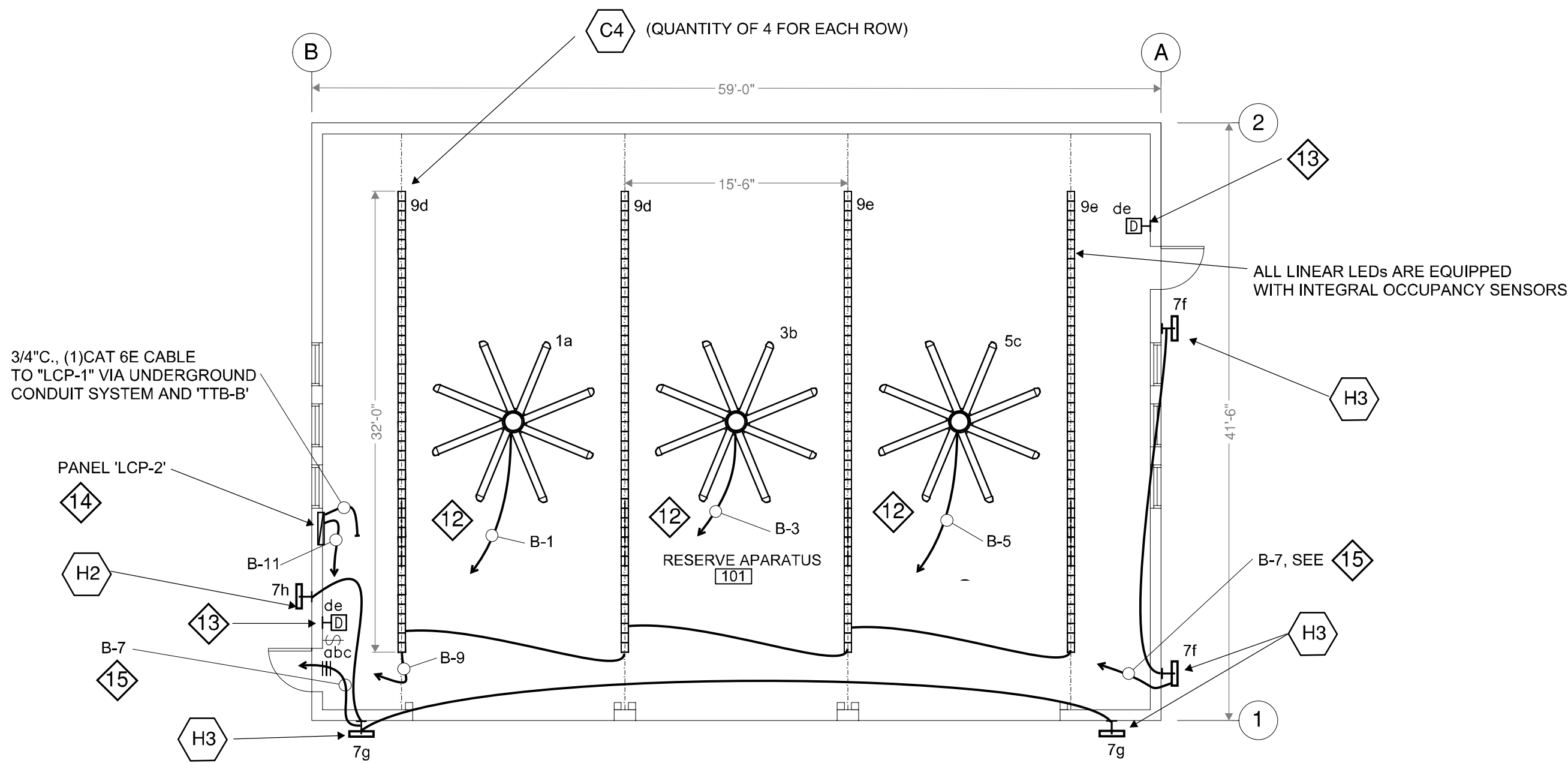
THE ABOVE DRAWINGS AND SPECIFICATIONS AND DESIGN, DESIGN AND ARRANGEMENTS REPRESENTED THEREIN ARE AND SHALL REMAIN THE PROPERTY OF WILLIAM LOYD JONES ARCHITECT. NO PART OF THESE DRAWINGS OR SPECIFICATIONS SHALL BE REPRODUCED OR USED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF WILLIAM LOYD JONES ARCHITECT. ANY VIOLATION OF THESE DRAWINGS OR SPECIFICATIONS SHALL BE CONSIDERED A VIOLATION OF THE PROFESSIONAL ENGINEER'S ETHICS AND SHALL BE SUBJECT TO THE DISCIPLINARY ACTION OF THE BOARD OF PROFESSIONAL ENGINEERS OF THE STATE OF CALIFORNIA.

Date	03-21-25
Drawn	E.L.
Checked	E.L.
Scale	AS NOTED
Job No.	25-115

E  
ENGINEERS  
CONSULTING ELECTRICAL ENGINEERS  
1238 7th Street, Santa Monica, Ca. 90401  
Tel: (424) 272-6709

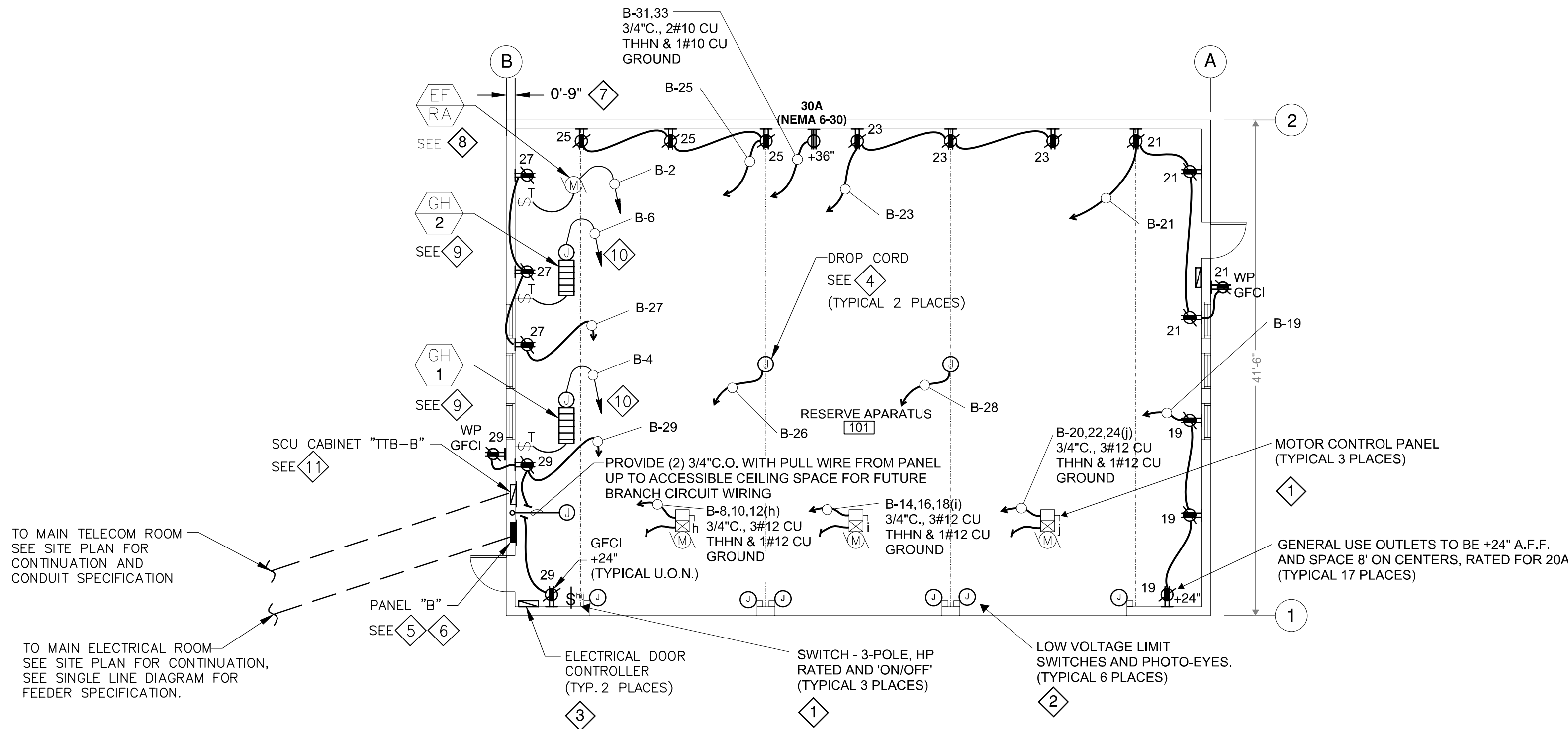
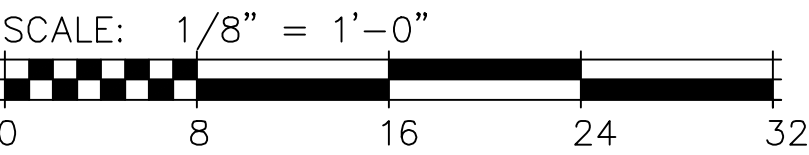
E1.0

ADDENDUM# 3 - BID SET - APRIL 30, 2026



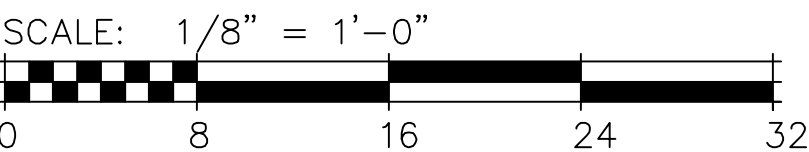
RESERVE APARATUS LIGHTING FLOOR PLAN

SCALE: 1/8"=1'-0"



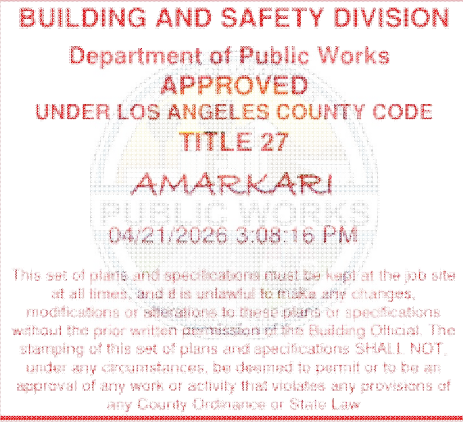
RESERVE APARATUS POWER FLOOR PLAN

SCALE: 1/8"=1'-0"



RESERVE APPARATUS GARAGE PLAN  
REFERENCE NOTES:

- 14' HIGH ROLL UP ELECTRIC SERVICE DOOR WITH MOTOR CONTROLLER PANEL. 208V-3PH, 3/4HP. MAKE ALL LINE VOLTAGE CONNECTIONS TO THE VENDOR FURNISHED CONTROLLER WITH INTEGRAL 30A DISCONNECT SWITCH AND 6.25A DUAL ELEMENT FUSES. ROUTE MOTOR BRANCH CIRCUIT VIA ELECTRICAL CONTRACTOR PROVIDED AND FURNISH SWITCH. CONFIRM FINAL UNIT LOCATION AND SPECIFICATIONS WITH OWNER'S REP AND ARCHITECT PRIOR TO ROUGH-IN.
- PROVIDE ALL LOW VOLTAGE CONDUIT AND #16 CU THHN CONTROL WIRE BETWEEN THE DOOR CONTROLLER, LIMIT SWITCHES, PHOTO ELECTRIC EYES, AND REVERSING DEVICES AS DIRECTED BY THE SYSTEM INSTALLER. RACEWAYS SHALL BE MINIMUM 1/2" AND INTERCONNECTED BETWEEN ALL INPUT DEVICES. ALL LOW VOLTAGE WIRE TERMINATIONS SHALL BE COMPLETED BY THE VENDOR. CONFIRM FINAL SPECIFICATIONS WITH OWNER'S REP PRIOR TO BIDDING. CONFIRM FINAL LOCATION OF DEVICES WITH VENDOR PRIOR TO ROUGH-IN.
- 3-BUTTON DOOR OPEN/CLOSE/STOP PUSH BUTTON DEVICE FURNISHED BY VENDOR. PROVIDE ALL LOW VOLTAGE CONDUIT AND #16 CU THHN CONTROL WIRE BETWEEN STATIONS FOR MASTER/SLAVE CONTROL OF DOORS. CONFIRM QUANTITIES AND EXACT LOCATION WITH OWNER'S REP, ARCHITECT AND VENDOR PRIOR TO ROUGH-IN.
- PROVIDE AND INSTALL A CEILING MOUNTED JUNCTION BOX FOR CONNECTION TO DROP CORD DEVICE FURNISHED BY THE OWNER. ALL CONNECTIONS TO BE MADE FOR QUICK AND SAFE DISCONNECTION WITH BREAK-AWAY CAPABILITY. USE A 20A FACELESS GFCI OUTLET INSIDE THE JUNCTION BOX WITH INDICATORS MOUNTED ON THE WALLS OF THE APPARATUS BAY AS DIRECTED BY THE OWNER'S REP. ELEVATIONS OF THE INDICATORS ARE APPROXIMATELY +7'-0" A.F.F. CONFIRM CELLING LOCATIONS OF THE JUNCTION BOXES WITH OWNER'S REP PRIOR TO ROUGH-IN.
- MAINTAIN MINIMUM CODE REQUIRED WORKING SPACE CLEARANCE OF 3'-0" ABOUT ELECTRICAL EQUIPMENT, PER NEC ARTICLE 110.26. IN ADDITION, ALL DISCONNECT SWITCHES AND CIRCUIT BREAKER HANDLES SHALL BE INSTALLED SO THAT THE CENTER OF THE GRIP OF THE OPERATING HANDLE WHEN IN THE HIGHEST POSITION IS NOT MORE THAN 6'-7" A.F.F.
- NO PIPING, DUCTS, LEAK PROTECTION APPARATUS, OR OTHER EQUIPMENT FOREIGN TO THE ELECTRICAL INSTALLATION SHALL BE ALLOWED IN THE DEDICATED SPACE ABOVE AND BELOW ELECTRICAL PANELS. THE SPACE EQUAL TO THE WIDTH AND DEPTH OF THE EQUIPMENT AND EXTENDING FROM THE FLOOR TO A HEIGHT OF 6 FEET ABOVE THE ELECTRICAL EQUIPMENT OR TO THE STRUCTURAL CEILING, WHICHEVER IS LOWER, SHALL BE DEDICATED TO THE ELECTRICAL INSTALLATION.
- A RECESSED PANEL REQUIRES A 6" THICK WALL (TYPICAL).
- EXHAUST FAN. 120V-1PH-1/2HP. PROVIDE AND INSTALL A LOCKABLE, HP RATED MANUAL MOTOR STARTER AND MAKE CONNECTION TO UNIT. CONFIRM FINAL UNIT LOCATION AND SPECIFICATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. SEE MECHANICAL WIRING DIAGRAM FOR CONTROL REQUIREMENTS. FAN TO RUN CONTINUOUSLY.
- GAS FIRED INFRARED HEATING UNIT - 120V-1PH-1/8HP. PROVIDE AND INSTALL A LOCKABLE, LOCAL DISCONNECT AND MAKE ALL LINE VOLTAGE CONNECTIONS TO ELECTRONIC IGNITION SYSTEM PER PLUMBING WIRING DIAGRAMS. CONFIRM FINAL SPECIFICATION WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN. SEE PLUMBING WIRING DIAGRAM FOR LOW VOLTAGE THERMOSTAT CONTROL REQUIREMENTS.
- CONDENSATE PUMP FOR HEATER 120V-1PH-500W. MAKE ALL LINE VOLTAGE CONNECTIONS TO UNIT CONTROLLER PACKAGE PROVIDED AND INSTALLED BY THE PLUMBING CONTRACTOR. CONFIRM FINAL UNIT LOCATION AND SPECIFICATION WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN. SEE PLUMBING WIRING DIAGRAM FOR ADDITIONAL INFORMATION.
- RECESSED INTERIOR STRUCTURED WIRING ENCLOSURE WITH LID. TO BE BENNER-NAWMAN #14424-MM OR PREAPPROVED EQUAL BY LOS ANGELES COUNTY FIRE DEPARTMENT. ENCLOSURE SIZE IS 14-1/4" WIDE BY 4" DEEP AND 42" LONG. UL LISTED CABINET IS DEDICATED FOR SCU LOW VOLTAGE WIRING.
- CIRCULATING CEILING FAN, 120V-1PH-1,200W. MAKE ALL LINE VOLTAGE CONNECTIONS TO UNIT. CONFIRM FINAL UNIT LOCATION AND SPECIFICATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. UNIT IS EQUIPPED WITH A LOCAL WALL MOUNTED CONTROL STATION. PROVIDE AND INSTALL LOW VOLTAGE CONDUIT WITH CATS CABLING FROM CONTROL STATION TO MOTOR CONTROL TERMINAL BLOCKS AS DIRECTED BY THE MECHANICAL CONTRACTOR. SEE VENDOR WIRING DIAGRAM FOR ADDITIONAL INFORMATION.
- WALL DIMMER SWITCH: PROVIDE AND INSTALL A DUAL TECHNOLOGY WALL SWITCH SENSOR WITH STAINLESS STEEL COVER PLATE. TO BE SENSOR SWITCH #WSXA-PDT-D SERIES OR PREAPPROVED EQUAL. USE 2-POLE OPTION "2P" WHERE FLOOR PLAN INDICATES A TWO-ZONE REQUIREMENT. DEVICE SHALL BE COMPATIBLE FOR MULTI-WAY CONFIGURATION.
- SLAVE LIGHTING CONTROL PANEL. SEE RELAY SCHEDULE FOR DETAILS.
- BRANCH CIRCUIT TO BE ROUTED VIA LIGHTING CONTROL PANEL FOR AUTOMATIC CONTROL OF LUMINAIRES.



WILLIAM LOYD JONES  
ARCHITECT

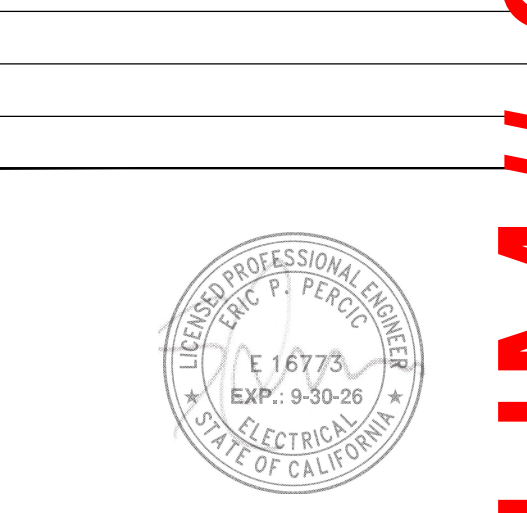
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RESERVE APARATUS LIGHTING &  
POWER FLOOR PLAN

FIRE STATION 46  
COUNTY OF LOS ANGELES FIRE DEPARTMENT  
26720 BOMBERO LANE  
VALENCIA, CALIFORNIA

Issue	
SCE REVIEW	03-21-25
DESIGN DEVELOPMENT REVIEW	05-18-25
ISSUED FOR REVIEW	06-27-25
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PLAN CHECK CORRECTIONS	09-19-25

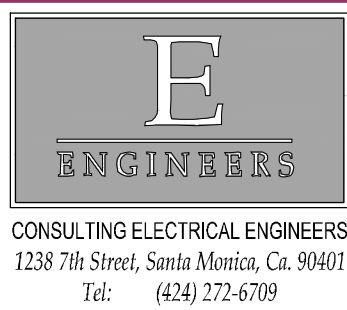


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WITHOUT LIMITATION OF THESE DRAWINGS SHALL HAVE PRECEDENCE OVER ANY OTHER DOCUMENTS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS IN THE JOB AND THIS OFFICE SHALL BE NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON THESE DRAWINGS AND SPECIFICATIONS WITHIN THE SPECIFIC TIME FRAME FOR APPROVAL BEFORE PROCEEDING WITH THE PROJECT.

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Date	03-21-25
Drawn	L.J.
Checked	E.P.
Scale	AS NOTED
Job. No.	25-1



E1.1

CONTINUATION: UNDERGROUND  
CONDUIT TO FUEL PUMP  
SHUT-OFF SWITCH LOCATED ON  
MAIN BUILDING, PER ARCHITECT  
AND SYSTEM INSTALLER  
SEE SHEET E1.0  
SEE 7 & 10

A-6a,8b, 10c  
3/4"C., 4#12 CU THWN AND  
3#12 CU GROUND

A-20,22,24,26,28  
3/4"C.,6#12 CU THHN  
AND 1#12 CU GROUND

SUPPLY TRANSFER PUMP  
(LOCATED INSIDE ROOM  
ON TOP OF THE BELLY  
TANK FOR THE GENSET)  
SEE 16

CONCRETE  
HOUSEKEEPING PAD TO  
BE 4" LARGER THAN  
THE FOOTPRINT OF  
THE BELLY TANK

PARTICULATE FILTER  
CONTROL PANEL  
SEE 19

TRANSITION  
DUCT  
CONNECTION

LOUVER WITH  
BACKDRAFT  
DAMPER

FLEX DUCT CONNECTION

100KW LOAD BANK  
SEE 21 & 22 & 23

GENERATOR SET  
SEE 11 & 12

GENERATOR SET  
CONTROL PANEL  
SEE 13

RETURN TRANSFER PUMP  
(LOCATED INSIDE ROOM ON  
TOP OF THE BELLY TANK  
FOR THE GENSET)  
SEE 17

EXTERIOR FUEL  
TANK ALARM AND  
CONTROL PANEL  
SEE 4

A-10  
SEE 7

A-6,8  
3/4"C., 4#12 CU THWN  
AND 2#12  
CU GROUND  
SEE 7

UNLEADED  
GASOLINE PUMP  
(FIELD VERIFY  
LOCATION ON SHOP  
DRAWINGS)  
SEE 3

DIESEL PUMP  
(FIELD VERIFY LOCATION  
ON SHOP DRAWINGS)  
SEE 3

HOSE TOWER  
CONTROLLER  
AND DISCONNECT  
SEE 6

A-14,16,18  
3/4"C.,3#10 CU THWN  
AND 1#10 CU  
GROUND  
AND 3#14 CT THWN  
FOR CONTROLS  
SEE 7

LOCATE FAN DISCONNECT  
SWITCH NEXT TO LIGHT  
SWITCH

HOSE  
STORAGE  
151

A-12  
SEE 7

FUEL TANK  
GROUND SYSTEM  
SEE 2

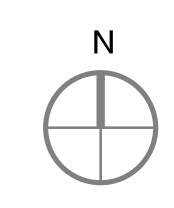
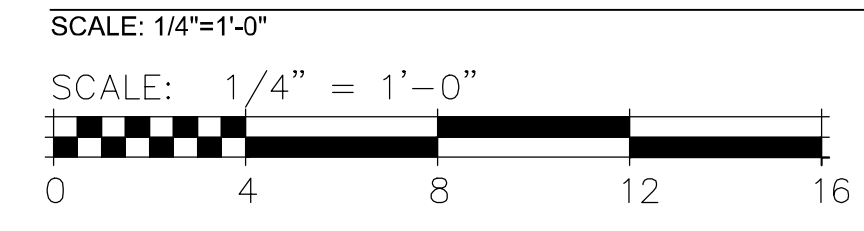
HOSE TOWER  
EXHAUST FAN  
SEE 1

HOSE TOWER  
MOTOR  
SEE 5

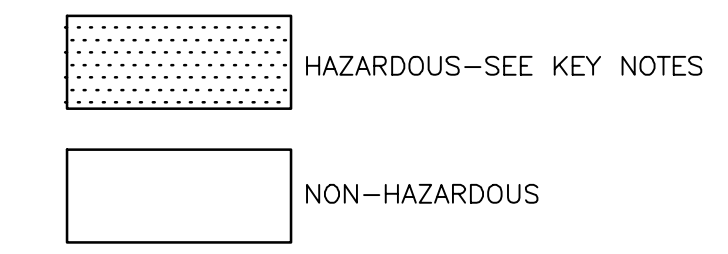
HAZARDOUS BOUNDARY  
SEE 9

HAZARDOUS AREA  
SEE 8

## FUEL AREA POWER AND SIGNAL FLOOR PLAN



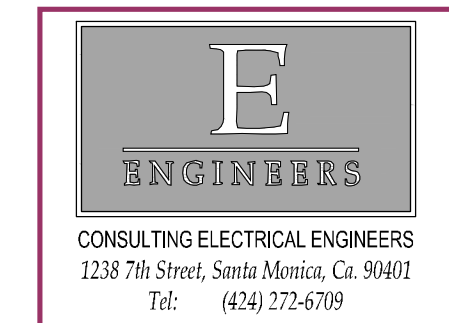
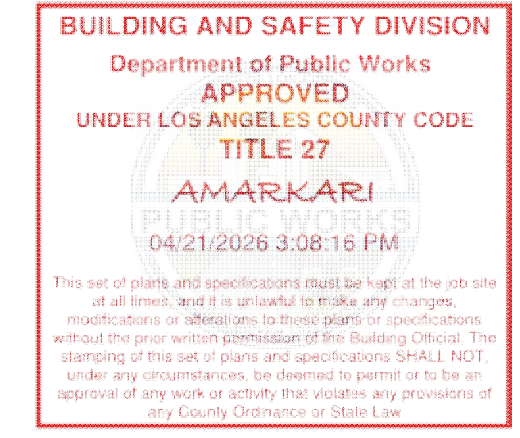
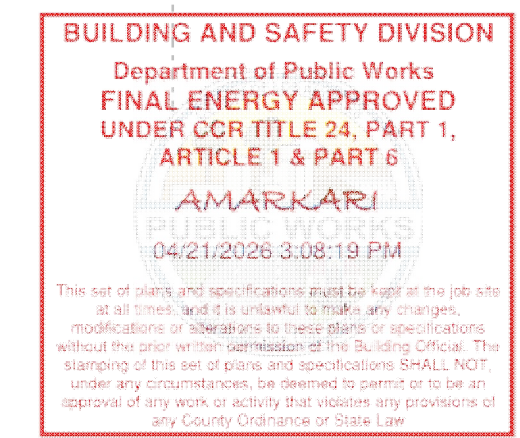
### CLASSIFIED LOCATION LEGEND PER NEC 514 AND 515



- NOTE:**
- ALL INTERIOR AND EXTERIOR CONDUITS SHALL BE LOCATED CONCEALED IN WALLS AND ABOVE CEILING.
  - USE RIGID TYPE CONDUIT IN BLOCK WALLS AND UNDER CONCRETE SLAB PER ELECTRICAL CONSTRUCTION SPECIFICATIONS.

## FUEL AREA POWER AND LIGHTING REFERENCE NOTES:

- EXHAUST FAN, 120V-1PH, 10W. MAKE ALL LINE VOLTAGE CONNECTIONS TO UNIT. PROVIDE A LOCK OFF DEVICE ON CIRCUIT BREAKER HANDLE FOR MAINTENANCE PURPOSE. UNIT TO HAVE INTEGRAL MOTION SENSOR AND CONDENSATE SENSOR SWITCHING FOR CONTROLS. PER MECHANICAL CONTRACTOR, CONFIRM FINAL SPECIFICATIONS WITH OWNER'S REP PRIOR TO ROUGH-IN.
  - PROVIDE AND INSTALL ONE 1/4" C., 1/2" O CU GROUND TO FUEL TANK WITH AN ACCESSIBLE CLAMP. INSTALLATION SHALL COMPLY WITH THE LOS ANGELES COUNTY FIRE DEPARTMENT REQUIREMENTS.
  - FUEL TRANSFER PUMP, 120V-1/2HP. PROVIDE AND INSTALL A LOCKABLE HP RATED 30AS/15AF/2P FUSIBLE DISCONNECT SWITCH AND MAKE ALL LINE VOLTAGE CONNECTIONS TO VENDOR FURNISHED PUMPS AS DIRECTED BY SYSTEM INSTALLER. CONFIRM FINAL SPECIFICATION AND LOCATION WITH OWNER'S REP PRIOR TO ROUGH-IN. LOCATED ON TOP OF TANK FOR APPARATUS FILLING. USE ONE PUMP FOR DIESEL COMPARTMENT. USE ONE PUMP FOR UNLEADED COMPARTMENT (3RD COMPARTMENT). CONFIRM CONTROL WIRING REQUIREMENTS WITH VENDOR PRIOR TO BIDDING AND PROVIDE ACCORDINGLY.
  - EXTERIOR FUEL TANK ALARM PANEL, 120V-1PH. MAKE ALL LINE VOLTAGE CONNECTIONS TO VENDOR FURNISHED PANEL AS DIRECTED BY SYSTEM INSTALLER. PROVIDE LOW VOLTAGE CONDUIT ONLY WITH PULL STRING TO FUEL LEVEL SWITCHES. CONFIRM FINAL SPECIFICATIONS AND REQUIREMENTS WITH THE OWNER'S REP AND SYSTEM INSTALLER PRIOR TO ROUGH-IN.
  - HOSE TOWER 208V-30-3HP. PROVIDE AND INSTALL A WEATHERPROOF 30AS/17.5AF/3P FUSIBLE DISCONNECT SWITCH AND MAKE CONNECTION TO UNIT AND CONTROLLER. CONFIRM FINAL UNIT LOCATION AND SPECIFICATION WITH ARCHITECT PRIOR TO ROUGH-IN. MAKE ALL LINE VOLTAGE CONNECTIONS TO UNIT. SEE SHEET E4.1 FOR DETAILS.
  - HOSE TOWER CONTROLLER AND DISCONNECT. CONFIRM FINAL LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. DO NOT LOCATE IN HAZARDOUS AREA UNLESS EQUIPMENT IS LISTED FOR LOCATION.
  - PROVIDE CONDUIT SEAL-OFFS PER NEC ARTICLE 514 & 515.
  - UNDERGROUND CONDUIT SERVING OR PASSING UNDER FUEL DISPENSING AREA IS CONSIDERED TO BE CLASS 1, DIVISION 1 INSTALLATIONS AND SHALL BE DONE IN ACCORDANCE WITH NEC ARTICLE 514 & 515. BRANCH CIRCUIT REQUIREMENTS INCLUDE USE OF RIGID GALVANIZED STEEL CONDUIT WITH NO FITTING OR COUPLINGS BETWEEN THE SEAL-OFF(S) AND THE END OF THE CONDUIT RUN.
  - CLASS 1, DIVISION 2 HAZARDOUS LOCATION TO A 20' RADIUS AND 18' A.F.F. AROUND FUEL TANK DISPENSERS AND A 10' RADIUS AROUND TANK PER NEC ARTICLE 514 & 515. FIELD VERIFY FINAL BOUNDARY PRIOR TO INSTALLATION.
  - PROVIDE AND INSTALL A FUEL EMERGENCY SHUT-OFF SWITCH PER SYSTEM INSTALLER REQUIREMENTS. MAKE ALL LINE VOLTAGE CONNECTIONS TO VENDOR FURNISHED WEATHERPROOF SWITCH. CONFIRM FINAL LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
  - PROVIDE A GENERATOR SET RATED FOR 200KW, CUMMINS QSB7 SERIES MODEL C200D6D WITH AN OUTPUT FEEDER BREAKER ON THE SKID. THE STANDBY GENERATOR SYSTEM SHALL BE A COMPLETE SYSTEM, APPROVED BY AN AUTHORIZED SYSTEM INSTALLER. CONTACT SALES REP JOHN T. CHEN FOR SHOP DRAWING GENERATION. SEE ALSO SHEET E3.0 FOR ADDITIONAL SPECIFICATIONS. ENSURE THAT ALL ITEMS ON THE INSTALLATION CHECK LIST OF THE INSTALLATION GUIDE ARE COMPLETE INCLUDING:  
a) GENERAL.  
b) GENERATOR SET SUPPORT.  
c) COOLING AIR FLOW.  
d) DIESEL FUEL SYSTEM, ABOVE GROUND BELLY TANK 5000 GALLONS (SEE E4.0).  
e) DIESEL PARTICULATE FILTER (D.P.F.) EXHAUST SYSTEM MANUFACTURED BY JOHNSON MATTHEY, COMPATIBLE WITH THE CUMMINS QSB7 ENGINE.  
f) AC AND DC WIRING.  
g) RADIATOR COOLED LOAD BANK SIZED AND INCLUSIVE OF AN AUTO LOAD ADDED/SHED CONTROL AND PROGRAMMED BY THE MANUFACTURER TO KEEP THE D.P.F. IN OPTIMAL REGENERATION STATE WHILE THE GENERATOR IS OPERATING.  
h) FUEL TRANSFER PUMP SYSTEM.  
i) GENERATOR SET PRESTART.
- CONTACT SALES REPRESENTATIVE JOHN T. CHEN FOR ADDITIONAL REQUIREMENTS AND TO PLACE ORDER AT:  
Or: (949)862-7272; M: (949) 337-5288; E: john.t.chen@cummins.com
- ELECTRICAL CONTRACTOR SHALL SUBMIT SCAQMD APPLICATION AND PAY PERMITTING FEES TO CERTIFY THE GENERATOR ENGINE (PULL PERMIT), THE EMERGENCY GENERATOR ENGINE SHALL BE ON THE SCAQMD PRE-APPROVED LIST.
  - CONTROL SYSTEM POWER COMMAND PANEL LOCATED ON THE SIDE OF THE ALTERNATOR AND INSTALLED AT THE FACTORY. SEE SHOP DRAWINGS FOR DETAILS. OPPOSITE SIDE IS THE LOCATION OF THE MAIN OUTPUT BREAKER. SEE SINGLE LINE DIAGRAM FOR ITS SPECIFICATIONS. CONDUIT FROM OUTPUT BREAKER TO TRANSFER SWITCH SHALL BE UNDERGROUND.
  - LOCATE ALL LIGHT FIXTURES AT A MINIMUM 10" FROM FUEL TANK BOUNDARY (UNCLASSIFIED LOCATION).
  - BRANCH CIRCUIT ROUTED VIA LIGHTING CONTROL PANEL FOR AUTOMATIC CONTROL OF LUMINAIRE.
  - FUEL TRANSFER PUMP 208V-10-1/3HP FOR SUPPLY. PROVIDE AND INSTALL A LOCKABLE HP RATED 30AS/5 6AF/2P FUSIBLE (DUAL ELEMENT TIME DELAY) DISCONNECT SWITCH. CONFIRM FINAL UNIT LOCATION AND SPECIFICATION WITH FUEL SYSTEM INSTALLER PRIOR TO INSTALLATION.
  - FUEL TRANSFER PUMP 208V-10-1/3HP FOR RETURN. PROVIDE AND INSTALL A LOCKABLE HP RATED 30AS/5 6AF/2P FUSIBLE (DUAL ELEMENT TIME DELAY) DISCONNECT SWITCH. CONFIRM FINAL UNIT LOCATION AND SPECIFICATION WITH FUEL SYSTEM INSTALLER PRIOR TO INSTALLATION.
  - FUEL TRANSFER PUMP CONTROL PANEL - 120V-1PH (SERIES 500 OR PREAPPROVED EQUIVALENT). MAKE ALL LINE VOLTAGE CONNECTIONS TO CONTROL PANEL, WHICH IS LOCATED AT THE END OF THE BELLY TANK AND FACTORY INSTALLED, AS DIRECTED BY FUEL SYSTEM INSTALLER. CONFIRM THAT 120V SOLENOIDS ARE PRE-WIRED AT THE FACTORY PRIOR TO BID AND ROUGH-IN. CONFIRM MANUAL MOTOR STARTERS FOR THE PUMP SYSTEM ARE VENDOR FURNISHED AND LOCATED INSIDE CONTROL PANEL PRIOR TO BIDDING.
  - PARTICULATE FILTER MONITOR CONTROL PANEL - 120V-1PH. MAKE ALL LINE VOLTAGE CONNECTIONS TO CONTROL PANEL, WHICH IS FACTORY INSTALLED, AS DIRECTED BY GEN SET INSTALLER. CONFIRM FINAL SPECIFICATION AND LOCATION WITH VENDOR PRIOR TO ROUGH-IN.
  - PROVIDE ALL LINE VOLTAGE BRANCH CIRCUIT WIRING AND ALL LOW VOLTAGE CONDUIT ONLY WITH PULL STRING FOR MONITORING EXHAUST SYSTEMS AS DIRECTED BY MECHANICAL CONTRACTOR. USE WEATHERPROOF JUNCTION BOXES IN OUTDOOR AREAS. SEE WIRING DIAGRAMS ON MECHANICAL DRAWINGS.
  - RADIATOR COOLED LOAD BANK MOUNTED TO GENERATOR SET BELLY TANK AT THE FACTORY BY THE VENDOR. LOCAL LOAD BANK CONTROL PANEL IS MOUNTED TO THE SIDE OF THE LOAD BANK AND RECEIVES POWER FROM THE ALTERNATOR. SYSTEM SHALL BE PRE-WIRED AT THE FACTORY BY THE VENDOR.
  - THE 100KW LOAD BANK WILL BE MOUNTED ON THE GENSETS 172-INCH BELLY TANK, WITHOUT INCREASING THE OVERALL SYSTEM LENGTH. THE VENDOR WILL FACTORY-CONNECT THE LOAD BANK TO THE GENERATOR RADIATOR WITH A 3-INCH CONNECTION, AS ESTIMATED BY THE MECHANICAL ENGINEER. FIELD VERIFICATION OF SHOP DRAWINGS IS REQUIRED BEFORE POURING THE CONCRETE HOUSEKEEPING PAD.
  - LOAD BANK SHALL: 1) KEEP THE EXHAUST TEMP HIGH ENOUGH SO THAT THE D.P.F. WORKS PROPERLY; 2) CONSISTS OF A LOAD BANK AUTOLOAD CONTROLLER; 3) PROVIDES ENOUGH LOAD FOR MONTHLY EXERCISE, PER NFPA 110. AVAILABLE IDENTIFIED REPLACEMENT COMPONENT REQUIRED.



FUEL AREA POWER AND  
SIGNAL FLOOR PLAN

**FIRE STATION 46**  
COUNTY OF LOS ANGELES FIRE DEPARTMENT  
26720 BOMBERO LANE  
VALENCIA, CALIFORNIA

Issue	
SCF REVIEW	03-21-25
DESIGN DEVELOPMENT REVIEW	06-10-25
ISSUED FOR PLAN CHECK	07-31-25
PLAN CHECK CORRECTIONS	10-14-25



THE ABOVE DRAWINGS AND SPECIFICATIONS AND THEIR DESIGN AND  
ARRANGEMENTS REPRESENTED, THEREBY ARE AND SHALL REMAIN THE  
PROPERTY OF THE ENGINEER. NO PART OF THESE DRAWINGS OR SPECIFICATIONS  
SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS  
ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY  
ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN  
CONSENT OF THE ENGINEER. ANY REUSE OF THESE DRAWINGS OR SPECIFICATIONS  
WITHOUT THE WRITTEN CONSENT OF THE ENGINEER SHALL BE CONSIDERED  
VIOLATION OF THE PROFESSIONAL ENGINEER'S ETHICS AND MAY BE SUBJECT TO  
PUNISHMENT BY THE BOARD OF PROFESSIONAL ENGINEERS OF THE STATE OF  
CALIFORNIA.

DATE: 04/21/2026 3:08:19 PM  
DRAWN: 1.2  
CHECKED: E.F.  
SCALE: AS NOTED  
JOB NO.: 25-1-15

Date	03-21-25
Drawn	1.2
Checked	E.F.
Scale	AS NOTED
Job No.	25-1-15

# E1.2

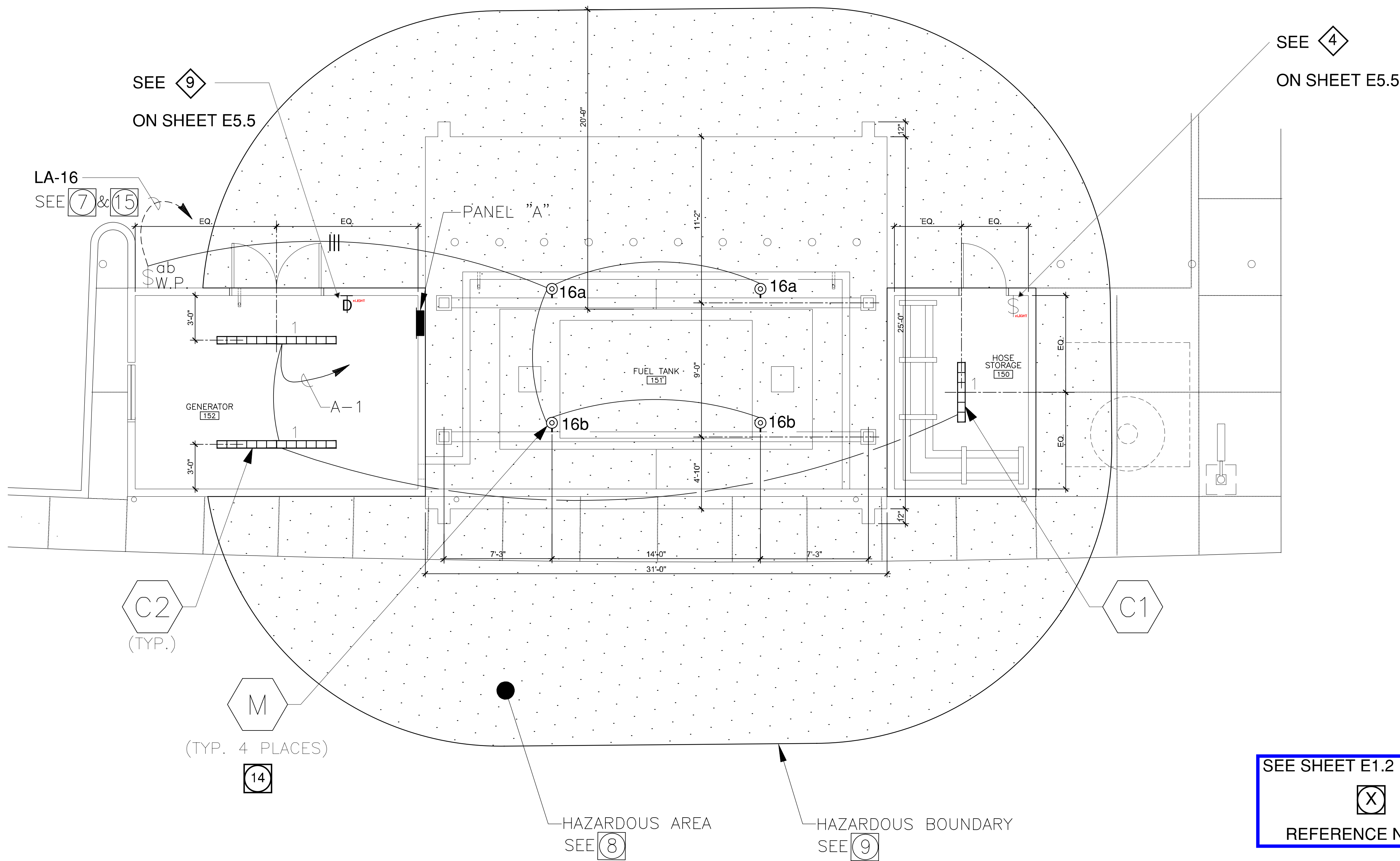
**WILLIAM LOYD JONES  
ARCHITECT**

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culver city, california  
90230

TEL 310 392 3995

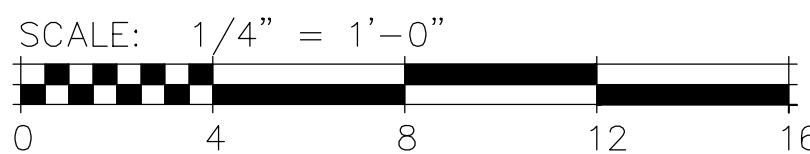
**FIREFIGHTER**

ADDENDUM# 3 - BID SET - APRIL 30, 2026



### FUEL AREA LIGHTING FLOOR PLAN

SCALE: 1/4"=1'-0"



**BUILDING AND SAFETY DIVISION**  
Department of Public Works  
**FINAL ENERGY APPROVED**  
UNDER CCR TITLE 24, PART 1,  
ARTICLE 1 & PART 6  
**AMARKARI**  
ELECTRICAL ENGINEER  
04/21/2026 3:08:19 PM

This set of plans and specifications must be kept on the job site at all times and it is unlawful to make any changes, modifications or alterations to these plans or specifications without the prior written permission of the Building Division. The stamping of this set of plans and specifications SHALL NOT, under any circumstances, be deemed to be an approval of any work or activity that violates any provisions of any County Ordinance or State Law.

**BUILDING AND SAFETY DIVISION**  
Department of Public Works  
**APPROVED**  
UNDER LOS ANGELES COUNTY CODE  
TITLE 27  
**AMARKARI**  
ELECTRICAL ENGINEER  
04/21/2026 3:08:16 PM

This set of plans and specifications must be kept on the job site at all times and it is unlawful to make any changes, modifications or alterations to these plans or specifications without the prior written permission of the Building Division. The stamping of this set of plans and specifications SHALL NOT, under any circumstances, be deemed to be an approval of any work or activity that violates any provisions of any County Ordinance or State Law.

**E**  
**ENGINEERS**  
CONSULTING ELECTRICAL ENGINEERS  
1238 7th Street, Santa Monica, Ca. 90401  
Tel: (424) 272-6709

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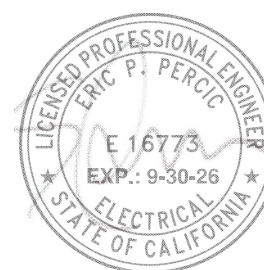
**FUEL AREA LIGHTING**  
**FLOOR PLAN**

**FIRE STATION 46**  
COUNTY OF LOS ANGELES FIRE DEPARTMENT  
26720 BOMBERO LANE  
VALENCIA, CALIFORNIA

**FI** **VE** **POINT.**

Issue

SCE REVIEW	03-21-25
DESIGN DEVELOPMENT REVIEW	06-10-25
ISSUED FOR PLAN CHECK	07-31-25

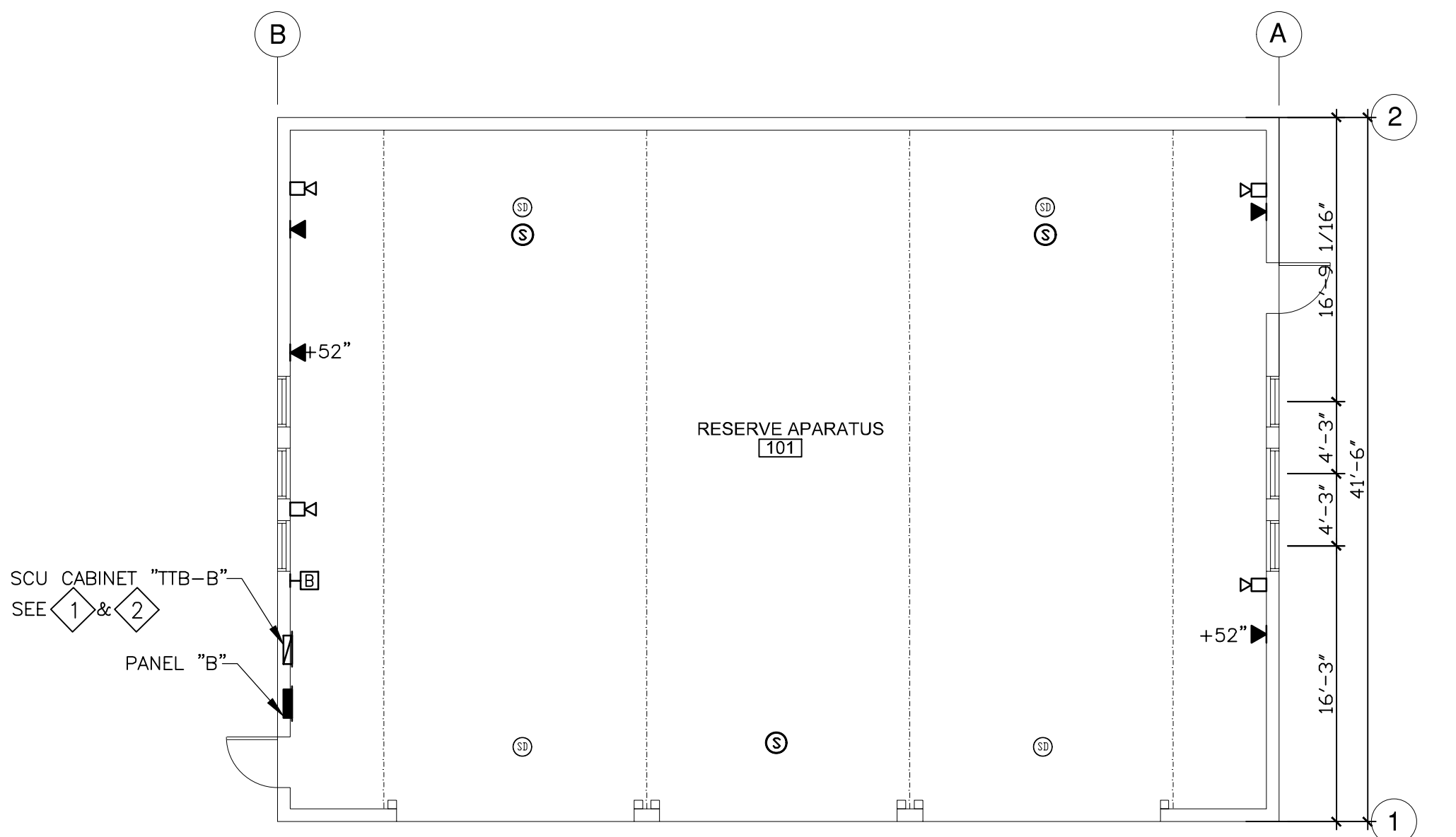


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Date	03-21-25
Drawn	I.E.
Checked	E.P.
Scale	AS NOTED
Job. No.	25-16

**E1.3**

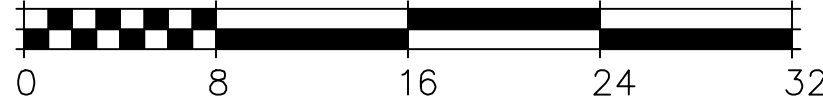
**ADDENDUM# 3 - BID SET - APRIL 30, 2026**



RESERVE APARATUS SCHEMATIC SIGNAL FLOOR PLAN

SCALE: 1/8"=1'-0"

SCALE: 1/8" = 1'-0"



FIRE ALARM CHARACTERISTICS TO BE DESIGNED AND INSTALLED BY  
SUB-CONTRACTOR AND VENDOR

MAIN BUILDING:

- FULLY SPRINKLERED.
- DEDICATED STAND PIPE.
- INTEGRATED ADDRESSABLE FIRE ALARM SYSTEM
- REMOTE ANNUNCIATOR PANEL FOR THE RESERVE APPARATUS BUILDING.

RESERVE APPARATUS BUILDING:

- FULLY SPRINKLERED.
- DEDICATED STAND PIPE.
- INTEGRATED ADDRESSABLE FIRE ALARM SYSTEM

GENERATOR ROOM BUILDING:

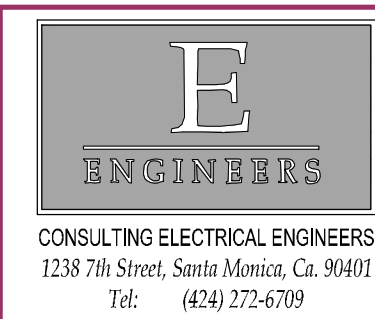
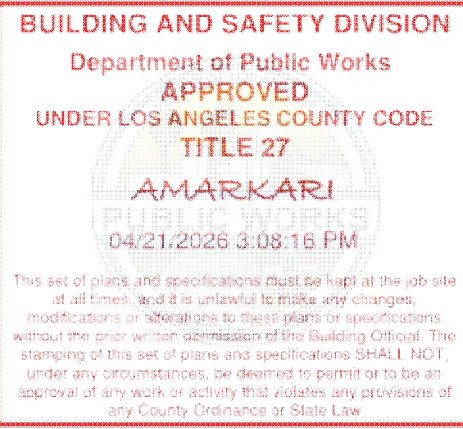
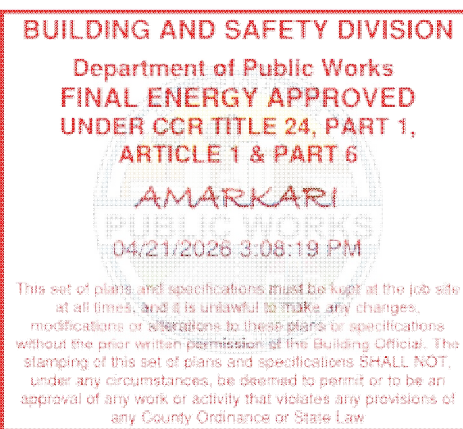
- NON-SPRINKLERED.
- NO FIRE ALARM SYSTEM DEVICES .

HOSE ROOM:

- NON-SPRINKLERED.
- NO FIRE ALARM SYSTEM DEVICES .

SIGNAL REFERENCE NOTES:

- 1 ADDRESSABLE FIRE ALARM SYSTEM (DESIGN-BUILD): THE FIRE ALARM SYSTEM WILL BE PROVIDED UNDER A DESIGN-BUILD DELIVERY METHOD. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL LINE VOLTAGE BRANCH CIRCUITS TO THE FIRE ALARM SYSTEM AND MAKE ALL LINE VOLTAGE CONNECTIONS AS DIRECTED BY THE FIRE ALARM SYSTEM VENDOR. REFER TO APPROVED SHOP DRAWINGS PRIOR TO ROUGH-IN AND BIDDING. THE LOCATIONS OF SMOKE DETECTORS AND OTHER FIRE ALARM DEVICES SHOWN ON THE DRAWINGS ARE FOR REFERENCE AND TO INDICATE THE DESIGN INTENT. SMOKE DETECTORS SHALL BE INSTALLED IN EACH SLEEPING ROOM, CORRIDOR, AND TELECOM ROOM, AS GENERALLY SHOWN ON THE FLOOR PLANS. THE COMPLETE SYSTEM SHALL INCLUDE A REMOTE ANNUNCIATOR PANEL, MANUAL PULL STATIONS, AND TAMPER SWITCHES.
- 2 THE ELECTRICAL CONTRACTOR SHALL REVIEW A COPY OF THE APPROVED SHOP DRAWINGS PRODUCED BY THE A/V SYSTEMS VENDOR AND/OR LA COUNTY FIRE DEPARTMENT. PROVIDE AND INSTALL ALL LINE VOLTAGE CONDUIT AND WIRE SHOWN ON THE WIRING DIAGRAMS. PROVIDE ALL CONDUIT ONLY AND BACK BOXES AS SHOULD ON THE WIRING DIAGRAMS AND FLOOR PLANS. VENDOR TO FURNISH AND INSTALL DEVICES AND MAKE ALL LOW VOLTAGE CONNECTIONS.



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RESERVE APARATUS SCHEMATIC  
SIGNAL FLOOR PLAN

FIRE STATION 46  
COUNTY OF LOS ANGELES FIRE DEPARTMENT  
26720 BOMBERO LANE  
VALENCIA, CALIFORNIA

FI V E P O I N T

Issue

SCE REVIEW	03-21-25
DESIGN DEVELOPMENT REVIEW	06-10-25
ISSUED FOR PLAN CHECK	08-13-25
PLAN CHECK CORRECTIONS	09-28-25



THE ABOVE DRAWINGS AND SPECIFICATIONS AND THEIR DESIGN AND ARRANGEMENTS REPRESENTED THEREIN ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT AND SHALL NOT BE REPRODUCED, COPIED, REPRODUCED, OR OTHERWISE USED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT. THE ARCHITECT SHALL BE RESPONSIBLE FOR THE DESIGN AND SPECIFICATIONS OF THE PROJECT AND SHALL BE RESPONSIBLE FOR THE DESIGN AND SPECIFICATIONS OF THE PROJECT AND SHALL BE RESPONSIBLE FOR THE DESIGN AND SPECIFICATIONS OF THE PROJECT.

Date	03-21-25
Drawn	I.J.
Checked	E.P.
Scale	AS NOTED
Job. No.	25-165

E1.4

ADDENDUM# 3 - BID SET - APRIL 30, 2026





J (15)	BATHROOM	SURFACE AND ABOVE MIRROR  SEE ARCHITECTURAL DETAIL	PURE EDGE LIGHTING TWIGGY  #TW2-T1-1RE-36- 30K-WH  <u>POWER SUPPLY;</u> (INCLUDED)  <u>WALL DIMMER;</u> -BY CONTRACTOR- LUTRON DIVA #DVELV-300P	(X) LED 1,137 LUMEN 92+ CRI 3000°K 120V	36" DECORATIVE TUBULAR VANITY LIGHT WITH ELECTRONIC LOW VOLTAGE DIMMING DRIVER AND POWER SUPPLY IN WHITE FINISH.  CONTRACTOR TO CONFIRM SELECTED DIMMER IS COMPATIBLE WITH POWER SUPPLY.  CANOPY AND FINISH PER ARCHITECT.
K1 (14)	KITCHEN AND DINING ROOM	SURFACE BENEATH UPPER CABINETS	BRUCK LIGHTING ESSENTIAL COVE  #WUND-WC1-24-90- WH-120-ELV  <u>ACCESSORIES;</u> HARD-WIRED POWER FEED #SAB-WUN-HCORD- 72-WH  <b>CUSTOM CONTINUOUS ROW ACCESSORIES, TERMINATION AND WALL STATION CONTROL BY ELECTRICAL CONTRACTOR. SEE FLOOR PLANS FOR LOCATIONS.</b>	(1) LED 980 LUMEN 90 CRI 3000°K OR 3500°K OR 4000°K 120V	25" UNDERCABINET LIGHT WITH ROCKER SWITCH AND A SELECTABLE COLOR TEMPERATURE OUTPUT IN WHITE FINISH.  DRIVER HAS DIMMING CAPABILITY USING ELV PROTOCOLS. FIXTURE TO BE NON- DIMMED.  FIXTURE ROCKER SWITCHES SHALL BE BY-PASSED BY FACTORY. CONTROL BY LOCAL LINE VOLTAGE WALL SWITCH.

Page 9 of 14

K2 (18)	PARAMEDIC ROOM; KITCHEN; DINING ROOM; APP BAY; COPY ROOM	SURFACE BENEATH UPPER CABINETS	BRUCK LIGHTING ESSENTIAL COVE  #WUND-WC1-32-90- WH-120-ELV  <u>ACCESSORIES:</u> HARD-WIRED POWER FEED #SAB-WUN-HCORD- 72-WH  <b>CUSTOM CONTINUOUS ROW ACCESSORIES, TERMINATION AND WALL STATION CONTROL BY ELECTRICAL CONTRACTOR. SEE FLOOR PLANS FOR LOCATIONS.</b>	(1) LED 1,350 LUMEN 90 CRI 3000°K OR 3500°K OR 4000°K 120V	33" UNDERCABINET LIGHT WITH ROCKER SWITCH AND A SELECTABLE COLOR TEMPERATURE OUTPUT IN WHITE FINISH.  DRIVER HAS DIMMING CAPABILITY USING "ELV" PROTOCOLS. FIXTURE TO BE NON- DIMMED.  FIXTURE ROCKER SWITCHES SHALL BE BY-PASSED BY FACTORY. CONTROL BY LOCAL LINE VOLTAGE WALL SWITCH.
L (40)	OXYGEN CASCADE ROOM, OIL ROOM  <b>HAZARDOUS AREAS</b>	SURFACE (CEILING)	HOLOPHANE EXPOSURE PROOF LINEAR HEX SERIES  #HEXS-P3-MV-30K- T2M-FG-XX-BK  <u>OPTIONS AND ACCESSORIES:</u> MOUNTING KIT PER CONTRACTOR AND ARCHITECT.	(1) LED 4,602 LUMEN >70 CRI 3000°K 120V	2' LINEAR EXPOSURE PROOF LUMINAIRE WITH TYPE II OPTICS AND DIFFUSED GLASS LENS; ENCLOSED LED DRIVER.  BLACK FINISH.  CONTRACTOR SHALL CONFIRM ZONE EQUIVALENCY RATINGS PRIOR TO ORDER.
M (100)	FUEL CANOPY	SURFACE (YOKE MOUNT)	HYDREL SERIES 8100 FLOOD  #8100 LED-P1-30K- MVOLT-MFL-YM- ARJB-XX-BL  <u>ADDITIONAL MOUNTING ACCESSORIES AND OPTIONS:</u> PER ARCHITECT AND CONTRACTOR.	(4) LED 8,620 LUMEN TOTAL >70 CRI 3000°K 120V	10" BY 12" DECORATIVE IP67 RATED (WET LOCATION LISTED) FLOOD LIGHT WITH MEDIUM FLOOD DISTRIBUTION IN BLACK FINISH WITH ELECTRONIC LED DRIVER.

Page 10 of 14

N (60)	EXTERIOR LOBBY BY FRONT DOOR	SURFACE  SEE ARCHITECTURAL DETAIL FOR ORIENTATION	KILLARK LIGHTING HUBBELL V SERIES WEATHERPROOF  #VBC-1 + VBA: VFC- 100; VRG-100; VAG- 100	(1) A-19 LED LAMP 120V	INDUSTRIAL ENCLOSED AND GASKETED JELLY JAR WITH RED TREATED HEATED GLASS GLOBE AND STONE GUARD. FIXTURE BODY HAS FEET. PROVIDE MOUNTING BOX AND ADAPTER.  LAMP PROVIDED BY CONTRACTOR, TO BE LED AND SCREW INTO AN A-19 BASE.  CONTRACTOR TO USE ½" C. HUB OR PREAPPROVED EQUAL.
O (11)	ROOF	SURFACE AT +42" A.F.F.  SEE ARCHITECTURAL DETAIL FOR MOUNTING	LITHONIA LIGHTING LED WALL LUMINAIRE TWPX1 SERIES  #TWPX1 LED-P1- 30K-MVOLT-DOBXD	(X) LED 1,450 LUMEN xx CRI 3000°K 120V	12" HIGH BY 7.5" WIDE WALL PACK WITH ELECTRONIC LED DIMMING DRIVER IN DARK BRONZE FINISH.  VANDAL RESISTANT AND WET LOCATING LISTED.  EQUIPPED WITH AN ADJUSTABLE LIGHT OUTPUT FEATURE SUCH THAT LIGHTING OUTPUT CAN BE SET AT INSTLLATION.

Page 11 of 14

X1 (10)	EGRESS PATH	SURFACE  (MOUNTING BRACKETS PER CONTRACTOR)	LITHONIA LIGHTING EDGE-LIT EXITS #LRP-1/2-GMR-(LRA)- 120/277-EL-N-(X) OR (TM)  ACCESSORIES: ROUGH-IN SECTION #ELA-LCRIS-120  <u>PENDANT MOUNT</u> <u>KIT:</u> #ELA-US12	(1) LED 120V	EDGE LIT EXIT SIGN IN BRUSHED ALUMINUM HOUSING WITH GREEN ON MIRROR LETTERS.  PROVIDE CHEVRONS AND FACES PER PLANS.  EQUIPPED WITH A 90 MINUTE BATTERY.  LED ROUGH-IN SECTION PER CONTRACTOR, WHERE REQUIRED.
LANDSCAPE LUMINAIRE SCHEDULE					
LLA (30)	PARKING LOT	POLE MOUNTING	FIXTURE SPECIFIED BY THE LANDSCAPE ARCHITECT – SEE LANDSCAPE DRAWINGS FOR ALL DESIGN INFORMATION AND LOCATIONS.	(X) LED 120V	DECORATIVE SHAPED PARKING LUMINAIRE.
LLB (30)	PARKING LOT	POLE MOUNTING	FIXTURE SPECIFIED BY THE LANDSCAPE ARCHITECT – SEE LANDSCAPE DRAWINGS FOR ALL DESIGN INFORMATION AND LOCATIONS.	(X) LED 120V	DECORATIVE SHAPED PARKING LUMINAIRE.
LLC (30)	PARKING LOT	POLE MOUNTING	FIXTURE SPECIFIED BY THE LANDSCAPE ARCHITECT – SEE LANDSCAPE DRAWINGS FOR ALL DESIGN INFORMATION AND LOCATIONS.	(X) LED 120V	DECORATIVE SHAPED PARKING LUMINAIRE.

Page 12 of 14

LLD (30)	PARKING LOT	POLE MOUNTING	FIXTURE SPECIFIED BY THE LANDSCAPE ARCHITECT – SEE LANDSCAPE DRAWINGS FOR ALL DESIGN INFORMATION AND LOCATIONS.	(X) LED 120V	DECORATIVE SHAPED PARKING LUMINAIRE.
LLE (22)	FLAG POLE	IN-GRADE	FIXTURE SPECIFIED BY THE LANDSCAPE ARCHITECT – SEE LANDSCAPE DRAWINGS FOR ALL DESIGN INFORMATION AND LOCATIONS.	(X) LED 120V	IN-GRADE SEALED UPLIGHT.
LLF (10.5)	SIGN	IN-GRADE	FIXTURE SPECIFIED BY THE LANDSCAPE ARCHITECT – SEE LANDSCAPE DRAWINGS FOR ALL DESIGN INFORMATION AND LOCATIONS.	(X) LED 120V	LINEAR IN-GRADE SIGN LIGHT.

LIGHTING LUMINAIRE REFERENCE NOTES:

1. CERTAIN FIXTURES DESIGNATED BY 'EM' ON THE FLOOR PLANS SHALL CONTAIN AN INTEGRAL 90 MINUTE EMERGENCY LIGHTING BALLAST. THE EMERGENCY EXIT ILLUMINATION SHALL BE SUPPLIED FROM STORAGE BATTERIES. SEE CIRCUITING SHOWN ON LIGHTING PLANS FOR THE WIRING REQUIREMENTS. SEE LUMINAIRE SCHEDULE ABOVE AND DETERMINE BALLAST REQUIREMENTS.
2. INCLUDE IN BASE BID ALL LABOR AND MATERIALS REQUIRED FOR A COMPLETE INSTALLATION OF ALL LUMINAIRES INDICATED ON THE DRAWINGS.
3. ELECTRICAL CONTRACTOR TO COORDINATE MOUNTING HEIGHT OF ALL LIGHT LUMINAIRES WITH ARCHITECTURAL, INTERIOR DESIGN AND LIGHTING CONSULTANT DESIGN DRAWINGS IN ADDITION TO OTHER TRADES PRIOR TO ROUGH-IN.
4. REFER TO ARCHITECTURAL CEILING PLANS FOR EXACT LOCATION AND QUANTITIES OF ALL LIGHT LUMINAIRES.
5. **PROVIDE AND INSTALL ALL NECESSARY LUMINAIRE SUPPORTS INDEPENDENT OF THE CEILING SYSTEM AS REQUIRED PER CODES AND LOCAL ORDINANCES.**

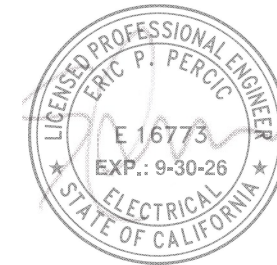
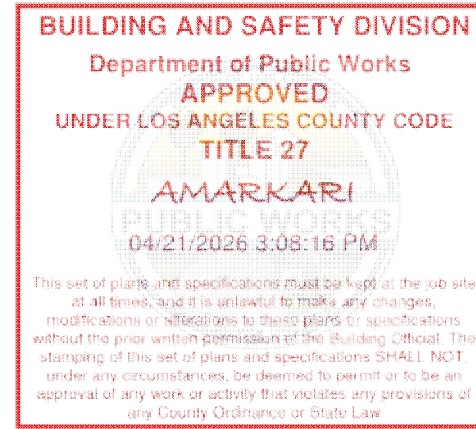
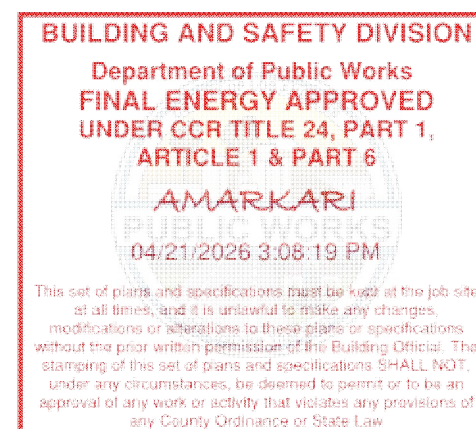
Page 13 of 14

6. CONTRACTOR IS RESPONSIBLE TO VERIFY TYPE OF CONSTRUCTION AT EACH LUMINAIRE LOCATION AND PROVIDE THE REQUIRED TRIMS AND MOUNTING ACCESSORIES OR KITS FOR THE APPLICATION.
7. DOWNLIGHTS RATED FOR TC MUST BE 3" AWAY FROM ANY INSULATION. CONFIRM ARCHITECTURAL DETAILS PRIOR TO ORDER.
8. MANUFACTURER TO PROVIDE ALL STRIP LIGHT FIXTURES WITH DISCONNECTING MEANS INSIDE OR OUTSIDE THE LUMINAIRE THAT CAN DISCONNECT ALL CONDUCTORS WIRED TO THE BALLAST.
9. CONTRACTOR TO CONFIRM FIRE-RATING OF CEILING MOUNTED LUMINAIRES WITH ARCHITECT PRIOR TO BID. LUMINAIRES IN CEILINGS WITH 2-HOUR FIRE RATING SHALL BE EQUIPPED WITH RED 2-HOUR BOXES.
10. RECESSED LUMINAIRES IN FIRE RATED CEILINGS AND AIR PLENUMS SHALL BE APPROVED FOR THE FIRE RATINGS OF THE CEILING OR SHALL BE FULLY ENCLOSED IN A FIRE-RATED HOUSING OR STRUCTURE ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.
11. VERIFY EXIT SIGN LOCATIONS AND DIRECTIONAL ARROWS WITH ARCHITECT'S FINAL EGRESS PLAN DRAWING AND THE AUTHORITY HAVING JURISDICTION PRIOR TO ORDERING EQUIPMENT.
12. PROVIDE SEPARATE NEUTRAL CONDUCTORS TO ALL LINE VOLTAGE DIMMED CIRCUIT SWITCH LEG. DO NOT SHARE NEUTRAL CONDUCTORS IN LINE VOLTAGE DIMMED CIRCUITS.
13. REVIEW SCENE MOUNTING HEIGHTS WITH ARCHITECT IN THE FIELD.
14. TEST FOR ILLUMINATION AND EXIT SIGNS, INCLUDING DIRECTIONAL EXIT SIGNS POWER BY EITHER THE NORMAL PREMISES WIRING OR ANY ADDITIONALLY REQUIRED EMERGENCY SYSTEMS SHALL BE CONDUCTED IN THE PRESENCE OF THE BUILDING INSPECTION STAFF TO ENSURE COMPLIANCE. THE TEST TIMES FOR EMERGENCY SYSTEMS SHALL BE ARRANGED IN ADVANCE AND THE STAFFING COST ASSOCIATED WITH EITHER PRE-HOURS OR AFTER-HOURS TESTING SHALL BE PAID AT THE TIME THE TESTING AND APPROVAL OF SUCH SYSTEMS SHALL OCCUR PRIOR TO THE ISSUANCE OF A TEMPORARY CERTIFICATE OF APPROVAL OF THE PROJECT.

APPROVED

DATE: \_\_\_\_\_ APPROVED BY: \_\_\_\_\_

Page 14 of 14



## LIGHT FIXTURE SCHEDULE

**FIRE STATION 46**  
COUNTY OF LOS ANGELES FIRE DEPARTMENT  
66720 BOMBERO LANE  
VALENCIA, CALIFORNIA

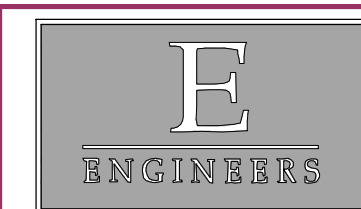
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WILLIAM LOYD JONES  
ARCHITECT

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culver city, california  
9 0 2 3 2

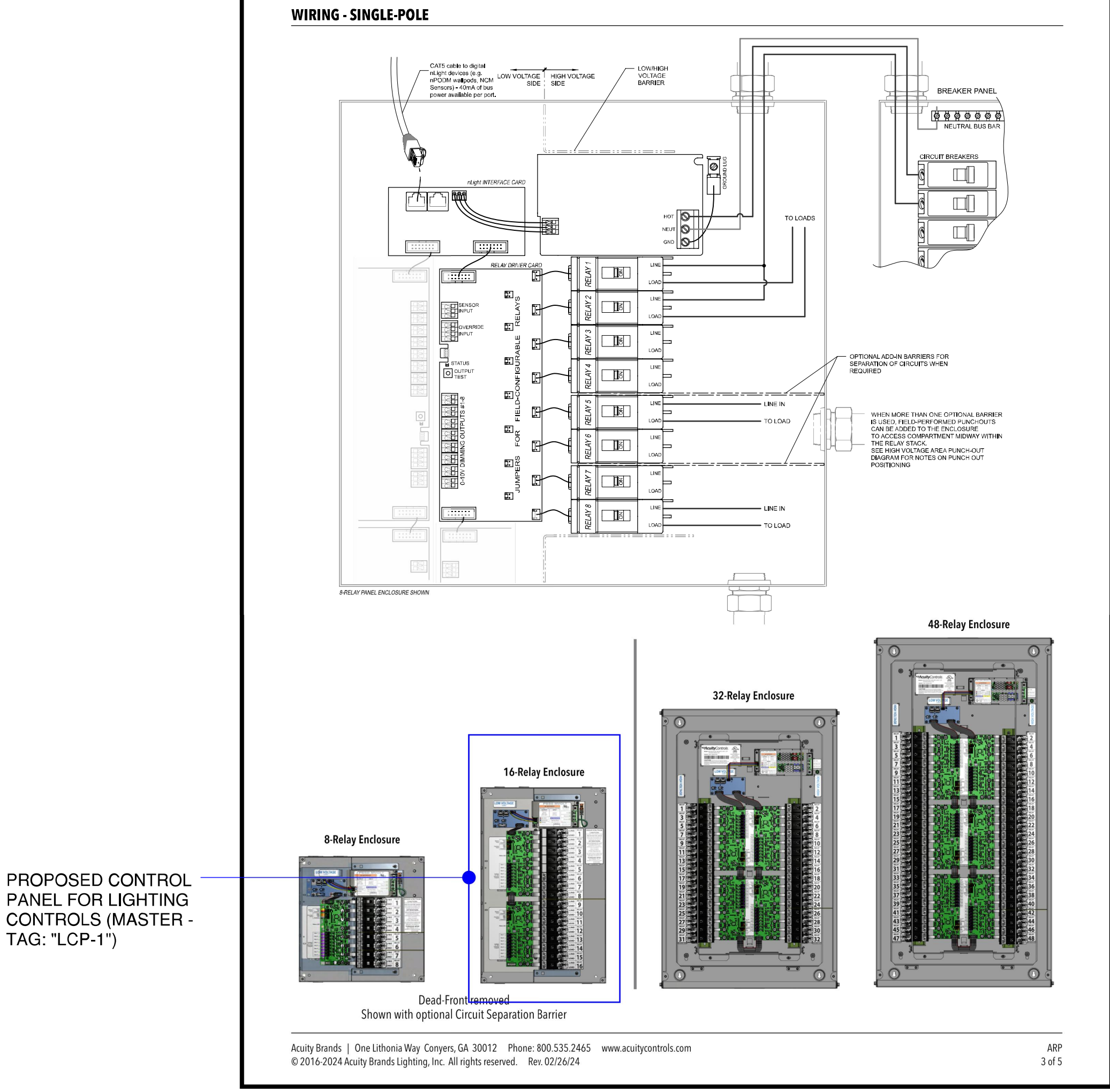
TEI 310 302 3005

# ADDENDUM#3 - BID SET - APRIL 30, 2026

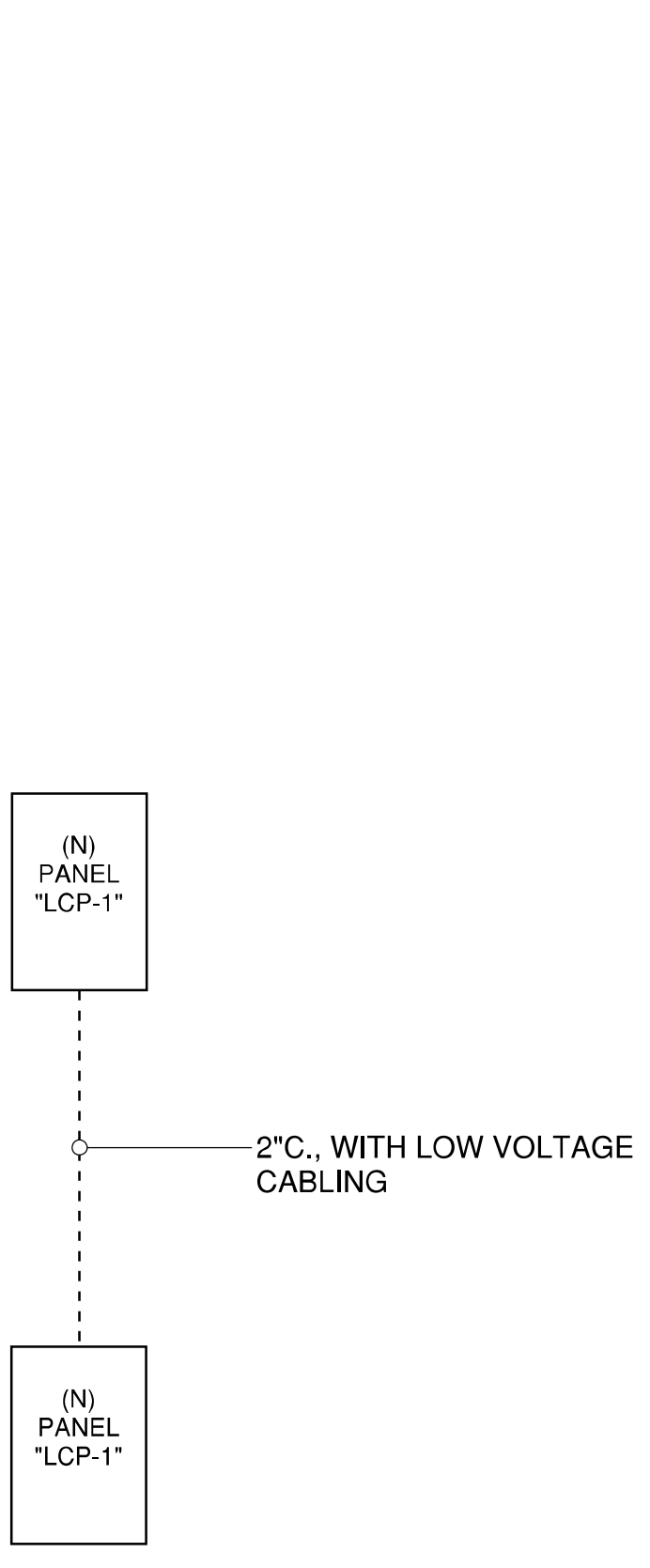


CONSULTING ELECTRICAL ENGINEER  
1238 7th Street, Santa Monica, Ca. 90401  
Tel: (424) 272-6709

## E2.2

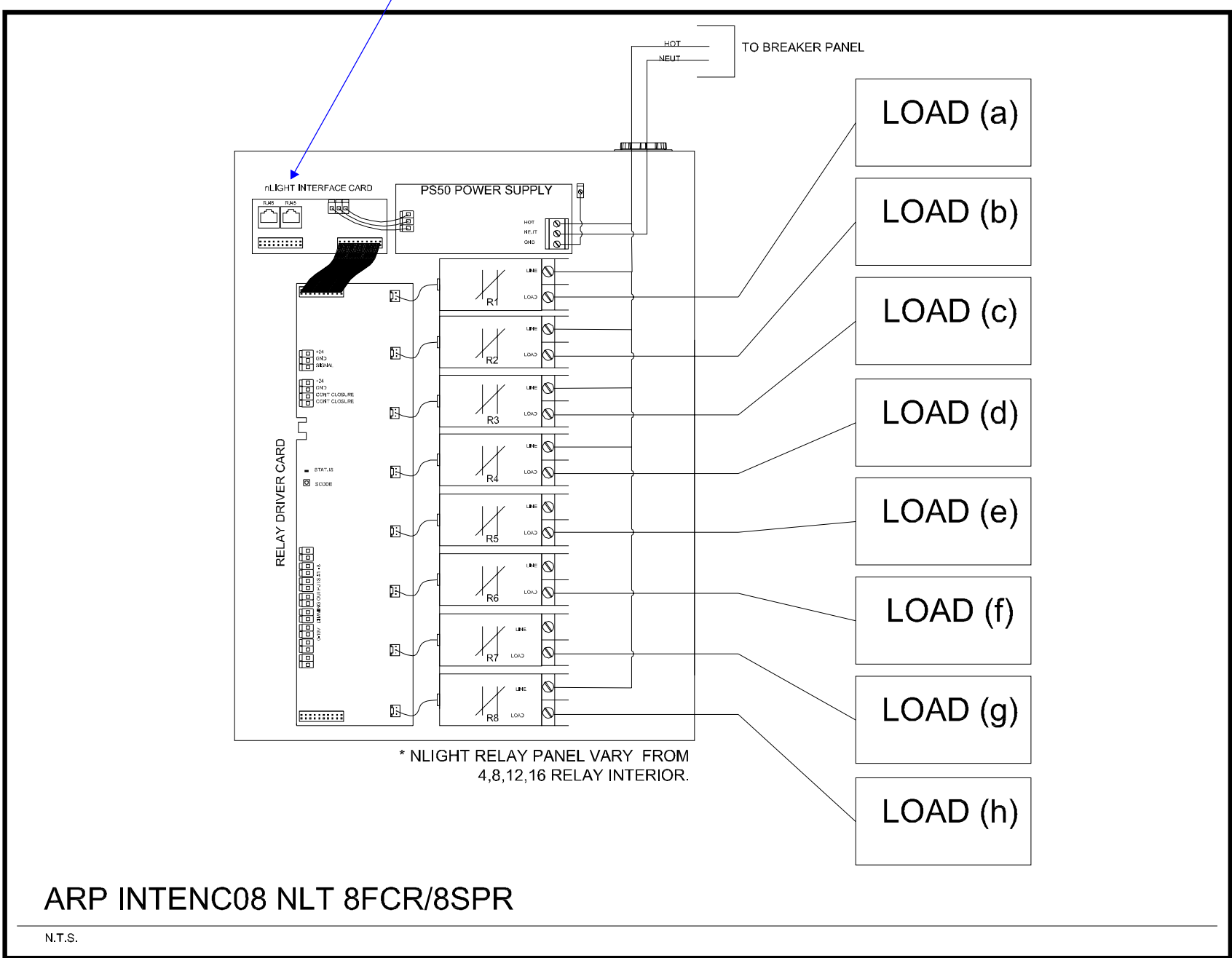


1 LIGHTING CONTROL PANEL (LCP) - GENERAL DESCRIPTION  
SCALE: NOT TO SCALE

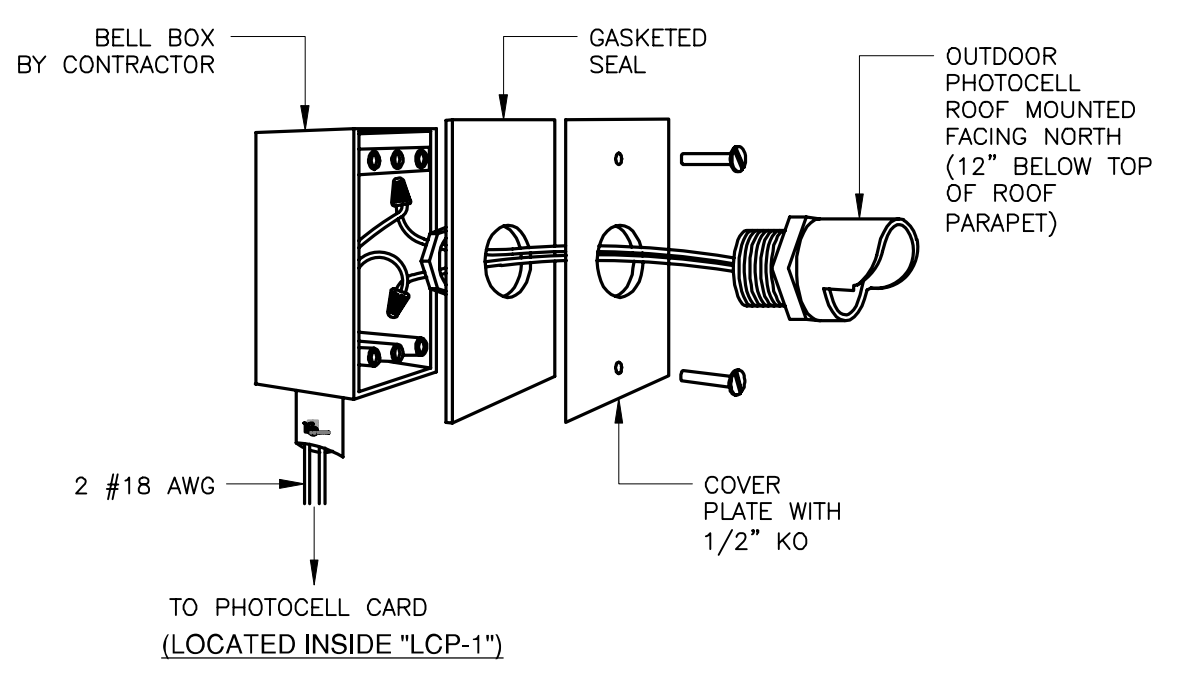


2 SINGLE LINE SCHEMATIC  
SCALE: NOT TO SCALE

DIGITAL BUS CONNECTORS:  
PROVIDE AND INSTALL LOW VOLTAGE CABLING (CAT 6 AND VENDOR APPROVED) VIA UNDERGROUND CONDUIT RACEWAY BETWEEN MAIN BUILDING AND RESERVE APPARATUS GARAGE. MAKE ALL TERMINATIONS



2 LCP-2: GENERIC WIRING DIAGRAM  
SCALE: NOT TO SCALE



4 ROOF MOUNTED PHOTOCELL DETAIL  
SCALE: NONE

LIGHTING CONTROL SYSTEM SCHEDULE									
TAG: LCP-1		NEMA: GENERAL USE INDOORS				LOCATION: MAIN ELECTRICAL ROOM			
RELAY NUMBER	MASTER		ZONE (FLOOR PLAN)	ZONE DESCRIPTION	PANEL SOURCE AND LINE FEED	LOAD (VA)	DIMMING (Y OR N)	REMARKS	
	NORM	EM							
1	X		-	EXHAUST FAN (EF-6) FOR TURNOUT STORAGE ROOM	MA-43	528	N	120V CIRCUIT	
2	X		-	CIRCULATION PUMPS FOR WH-1	MB-9	100	N	120V CIRCUIT	
3	X		-	FUEL CANOPY FLOOD LIGHTING	LA-16	400	N	120V CIRCUIT	
4	X		a	MAIN BUILDING FAÇADE LIGHTING	LA-18	210	N	120V CIRCUIT	
5	X		b	MAIN BUILDING DOWNLIGHTS	LA-19	55	N	120V CIRCUIT	
6	X		c	TRASH ENCLOSURE	LA-18	15	N	120V CIRCUIT	
7	X		a	ROOF LIGHTS - NORTH	MA-37	28	N	120V CIRCUIT	
8	X		b	ROOF LIGHTS - SOUTH	MB-37	42	N	120V CIRCUIT	
9	X		B	POLE LIGHTS - BEHIND THE GATES	LA-1	120	N	120V CIRCUIT	
10	X		a	FLAG POLE LIGHTING	LA-3	88	N	120V CIRCUIT	
11	X		A	SIGN LIGHTING	LA-5	32	N	120V CIRCUIT	
12	X			POLE LIGHTS - IN FRONT OF THE GATES	LA-1	90	N	120V CIRCUIT AND 0-10v DIMMING	
13	X			SPARE					
14	X			SPARE					
15	X			SPARE					
16	X			SPARE					

NOTES:

1) PROVIDE AND INSTALL A ROOF MOUNTED PHOTOSENSOR, A LISTED ACCESSORY. LOCATE SENSOR AS DIRECTED BY ARCHITECT.

LIGHTING CONTROL SYSTEM SCHEDULE									
TAG: LCP-2		NEMA: GENERAL USE INDOORS				LOCATION: RESERVE APPARATUS GARAGE			
RELAY NUMBER	SLAVE		ZONE (FLOOR PLAN)	ZONE DESCRIPTION	PANEL SOURCE AND LINE FEED	LOAD (VA)	DIMMING (Y OR N)	REMARKS	
	NORM	EM							
1	X		B	FRONT FAÇADE SCONCES	B-7	30	N	120V CIRCUIT.	
2	X		f	SIDE SCONCE	B-7	30	N	120V CIRCUIT.	
3	X		h	SIDE SCONCE	B-7	15	N	120V CIRCUIT.	
4	X							SPARE	
5								SPACE	
6								SPACE	
7								SPACE	
8								SPACE	

NOTES:

WILLIAM LOYD JONES  
ARCHITECT

9415 culver boulevard  
culver city, california  
9 0 2 3 2

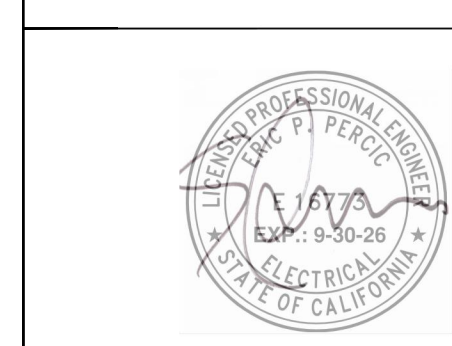
TEL 310 392 3995

LIGHTING CONTROL PANEL  
SCHEDULES & DETAILS

FIRE STATION 46  
COUNTY OF LOS ANGELES FIRE DEPARTMENT  
26720 BOMBERO LANE  
VALENCIA, CALIFORNIA

FIVE POINT.

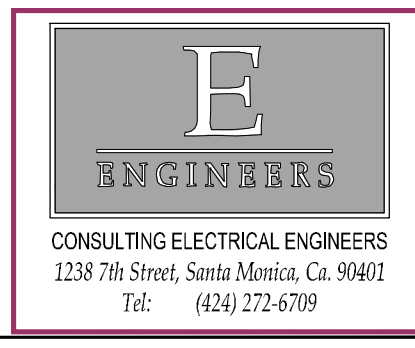
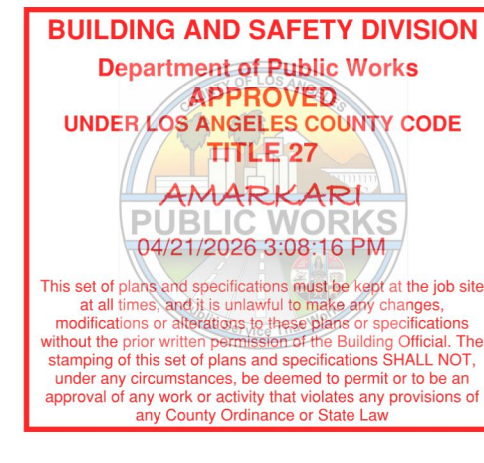
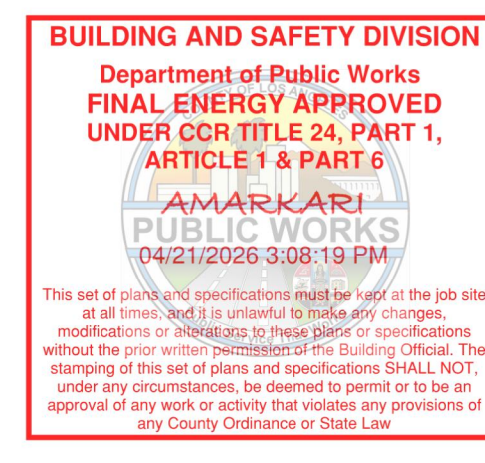
Issue	
SCE REVIEW	03-21-25
DESIGN DEVELOPMENT REVIEW	04-07-25
ISSUED FOR PLAN CHECK	07-31-25
PLAN CHECK CORRECTIONS	11-07-25



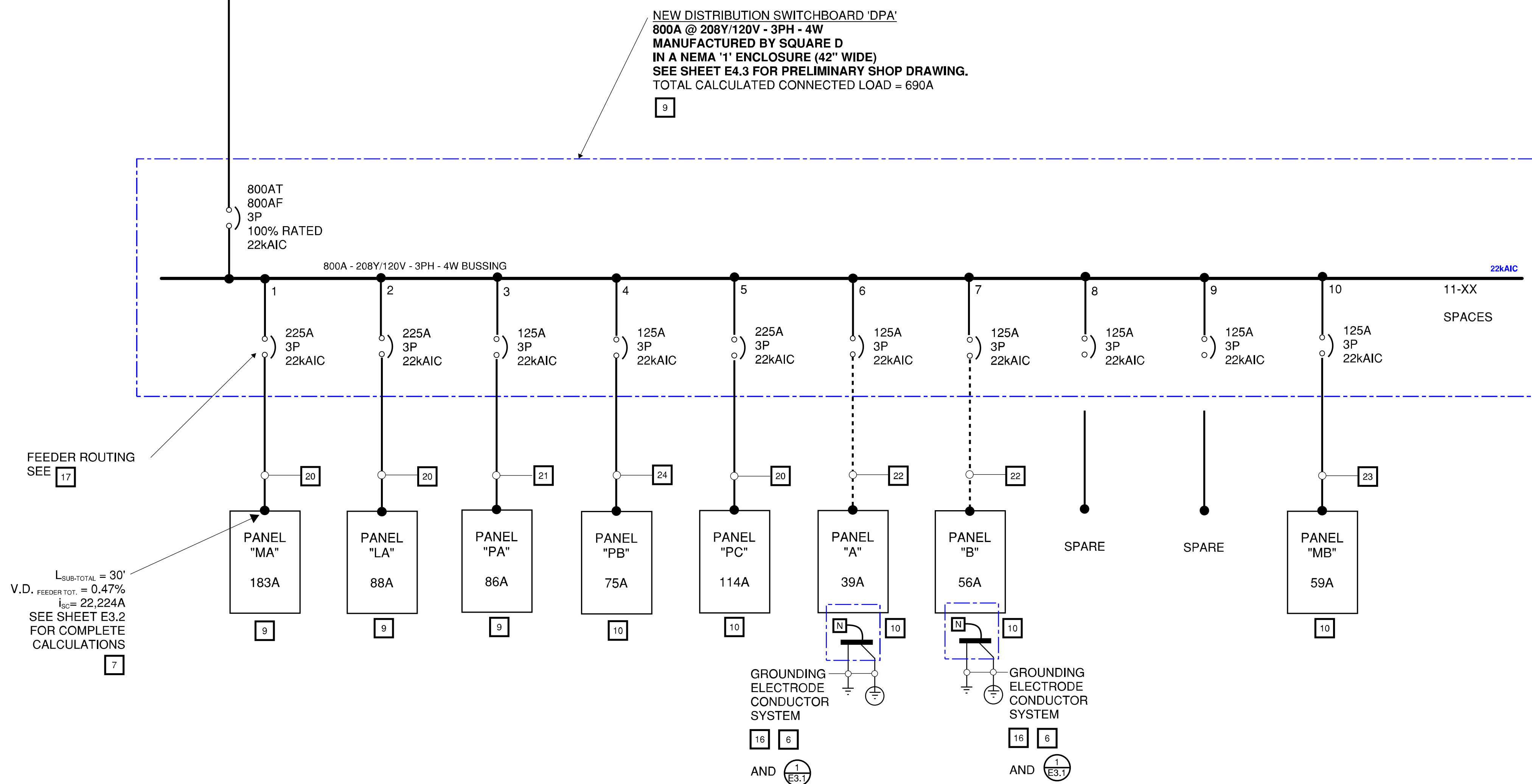
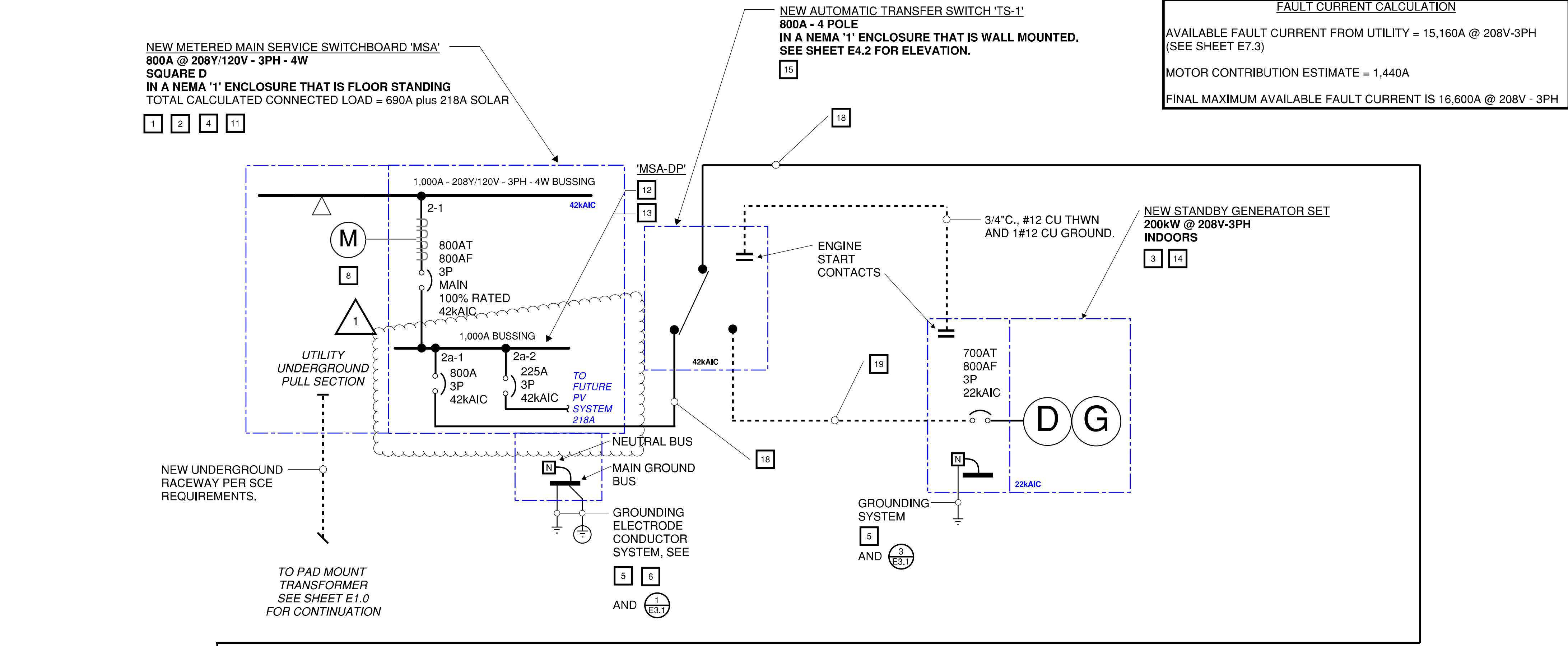
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Copyright 2005

Date	03-21-25
Drawn	L.J.
Checked	E.F.
Scale	AS NOTED
Job. No.	25-1



E2.3



1 NEW SINGLE LINE DIAGRAM  
SCALE: NOT TO SCALE

## SINGLE LINE DIAGRAM REFERENCE NOTES:

- 1 THE MAXIMUM AVAILABLE FAULT CURRENT AT THE PROPOSED SERVICE IS NOT GREATER THAN 16,600A AT 208V-3PH AND 4 WIRE, PER THE SCE FAULT CURRENT INPUT. SEE TEXT BOX CALCULATION ON THIS SHEET. PROVIDE SERVICE COMMITMENT LETTER TO ENGINEER OF RECORD PRIOR TO ORDERING SWITCHGEAR.
- 2 THE NEW MAIN SERVICE SWITCHBOARD, PULL SECTION AND FEEDER BREAKERS AND BRANCH CIRCUIT BREAKERS SHALL BE FULLY RATED FOR A MAXIMUM SHORT CIRCUIT RATING OF 42,000 AMPS OF SYMMETRICAL FAULT CURRENT AT 208V-3PH. (SCCR = 42,000 MINIMUM)
- 3 THE GENERATOR OUTPUT BREAKER AND THE TRANSFER SWITCH SHALL BE FULLY RATED FOR A MAXIMUM SHORT CIRCUIT RATING OF 22,000 AMPS OF SYMMETRICAL FAULT CURRENT AT 208V-3PH. (SCCR = 22,000 MINIMUM)
- 4 ALL SERVICE EQUIPMENT SHALL BE LEGIBLY MARKED WITH THE MAXIMUM AVAILABLE FAULT CURRENT. INCLUDE THE DATE 11/05/2025 FOR WHEN THE CALCULATIONS WERE PERFORMED. NAMEPLATES SHALL BE WEATHERPROOF AND WEATHER RESISTANT.
- 5 3/4"C. 1#3/0 CU GROUND. GROUNDING ELECTRODE SYSTEM SHALL COMPLY WITH NEC ARTICLE 250-52 AND INCLUDE ALL AVAILABLE METHODS.
- 6 BONDING SHALL BE PROVIDED AT METAL PIPING SYSTEM(S) (INCLUDING GAS PIPING) TO ENSURE ELECTRICAL CONTINUITY. SEE NEC ARTICLE 250-104 FOR MEANS AND METHODS. THE POINT OF ATTACHMENT OF ALL CONDUIT JUMPERS SHALL BE ACCESSIBLE.
- 7 LENGTH OF FEEDERS AND BRANCH CIRCUITS ARE FOR ENGINEERING CALCULATIONS ONLY AND SHALL NOT BE USED FOR BIDDING OR CONSTRUCTION PURPOSES.
- 8 THE MAIN SERVICE ELECTRICAL PANEL VENDOR SHALL SUPPLY A METER SOCKET BACKBOX THAT CONFORMS TO ALL APPLICABLE UTILITY COMPANY STANDARDS. THE UTILITY COMPANY WILL PROCURE AND INSTALL A PERMANENTLY AFFIXED, USER-ACCESSIBLE METER TO MEASURE THE TOTAL ELECTRICAL ENERGY CONSUMPTION, INCLUDING:  
1.REAL-TIME KILOWATT (KW) DEMAND  
2.HISTORICAL PEAK DEMAND (KW)  
3.RESETTABLE KILOWATT-HOUR (KWH) USAGE
- 9 PANELBOARD AND BRANCH CIRCUIT BREAKERS TO BE FULLY RATED FOR A MINIMUM OF 22,000A OF SYMMETRICAL FAULT CURRENT AT 208V-3PH.
- 10 PANELBOARD AND BRANCH CIRCUIT BREAKERS TO BE FULLY RATED FOR A MINIMUM OF 10,000A OF SYMMETRICAL FAULT CURRENT AT 208V-3PH.
- 11 SERVICE EQUIPMENT, SWITCHBOARD AND PANELBOARDS ARE DESIGNED ON "SQUARE D" EQUIPMENT. USE OF APPROVED EQUAL EQUIPMENT REQUIRING DIMENSIONS OTHER THAN SHOWN ON THE PLANS SHALL BE APPROVED BY THE ENGINEER OF RECORD PRIOR TO ORDER.
- 12 THE END OF THE BUSSING SPACE (LAST) SHALL BE RESERVED FOR A FUTURE CONNECTION TO A PHOTOVOLTAIC SYSTEM.
- 13 SEE DISTRIBUTION PANEL 'MSA' ELEVATION ON SHEET E7.1 FOR REQUIRED SPARE CIRCUIT BREAKERS AND SPACES FOR FUTURE FEEDER OR BRANCH CIRCUIT BREAKERS.
- 14 GENERATOR SET RATED FOR 200kW, 250KVA, 208V-3PH-4W FOR STANDBY USE. MANUFACTURED BY CUMMINS QSBT SERIES MODEL #C200D6D AT 60HZ WITH EPA TIER 3 EMISSIONS OR PREAPPROVED EQUAL. EQUIPPED WITH THE FOLLOWING FEATURES:  
1) SKID MOUNTED FUEL TANK WITH A CAPACITY OF ±500 GALLONS AND A DUAL WALL SUB-BASE  
2) CRITICAL GRADE SILENCING INCORPORATED INTO THE D.P.F.  
3) 3-POLE OUTPUT BREAKER  
4) BATTERY CHARGER AND BATTERY HEATER  
5) COMPLY WITH ARTICLE 445 OF THE NEC FOR INSTALLATION  
6) APPROVED SEISMIC VIBRATION ISOLATORS  
7) 10-YEAR WARRANTY

CONTACT SALES REPRESENTATIVE JOHN T. CHEN FOR ADDITIONAL REQUIREMENTS AND TO PLACE ORDER AT:  
O: (949)862-7272; M: (949) 337-5268; E: john.t.chen@cummins.com

- 15 AUTOMATIC TRANSFER SWITCH, WALL MOUNTED, AND OPEN TRANSITION WITH 800A CAPACITY AND 4-POLE TYPE. TO BE CUMMINS POWERCOMMAND OTEC SERIES IN A NEMA '1' ENCLOSURE, RATED FOR 208V AND 60HZ. EQUIPPED WITH POWERCOMMAND 40-11 TRANSFER SWITCH CONTROL PANEL. PROGRAMMED AND COMMISSIONED BY VENDOR. CONTRACTOR TO INCLUDE TURN KEY START-UP SERVICES. THE GENERATOR EXERCISER CLOCK FUNCTION IN THE A.T.S SHALL BE PROGRAMMED BY THE VENDOR DURING COMMISSIONING. PER LOS ANGELES COUNTY FIRE INSTRUCTIONS.

CONTACT SALES REPRESENTATIVE JOHN T. CHEN FOR ADDITIONAL REQUIREMENTS AND TO PLACE ORDER AT:  
O: (949)862-7272; M: (949) 337-5268; E: john.t.chen@cummins.com

- 16 3/4"C. 1#6 CU GROUND. GROUNDING ELECTRODE SYSTEM SHALL COMPLY WITH NEC ARTICLE 250-52 AND INCLUDE ALL AVAILABLE METHODS.
- 17 NO ELECTRICAL FEEDER CONDUITS SHALL RUN WITHIN 6' OF THE LIVING SPACES OF DORMITORIES AND THE DAY ROOM, IN ORDER TO MINIMIZE EMF.

- 18 (2) 4"C., (4)500 KCMIL THHN AND (1)1/0 CU GROUND IN EACH. [PARALLEL CONDUCTORS], THREE SETS]
- 19 (3) 4"C., (4)500 KCMIL THWN AND (1)1/0 CU GROUND IN EACH. [PARALLEL CONDUCTORS, THREE SETS]

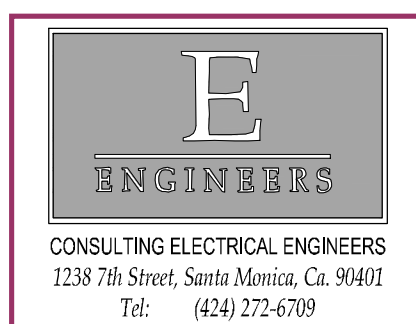
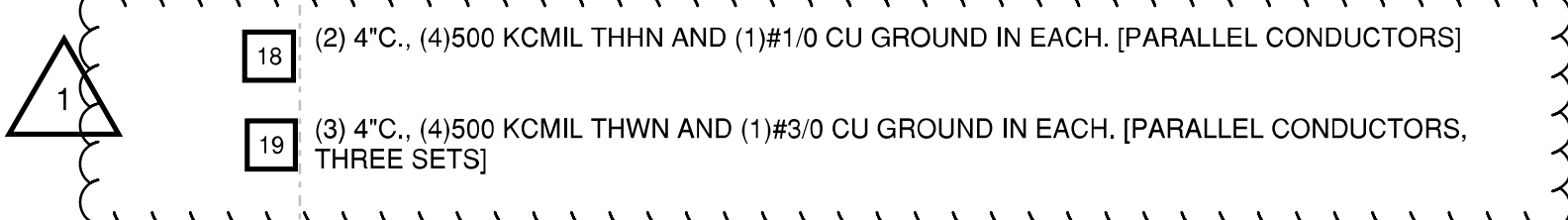
- 20 2-1/2"C., (4)1/0 CU THHN AND (1)1/4 CU GROUND.

- 21 1-1/2"C., (4)1 CU THHN AND (1)1/4 CU GROUND.

- 22 1-1/2"C., (4)1 CU THWN AND (1)1/4 CU GROUND.

- 23 2"C., (4)1/0 CU THHN AND (1)1/4 CU GROUND.

- 24 2"C., (4)2/0 CU THHN AND (1)1/4 CU GROUND.



WILLIAM LOYD JONES  
ARCHITECT

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culver city, california  
9 0 2 3 2

TEL 310 392 3995

SINGLE LINE DIAGRAM

FIRE STATION 46  
COUNTY OF LOS ANGELES FIRE DEPARTMENT  
26720 BOMBERO LANE  
VALENCIA, CALIFORNIA

FI VE POINT.

Issue

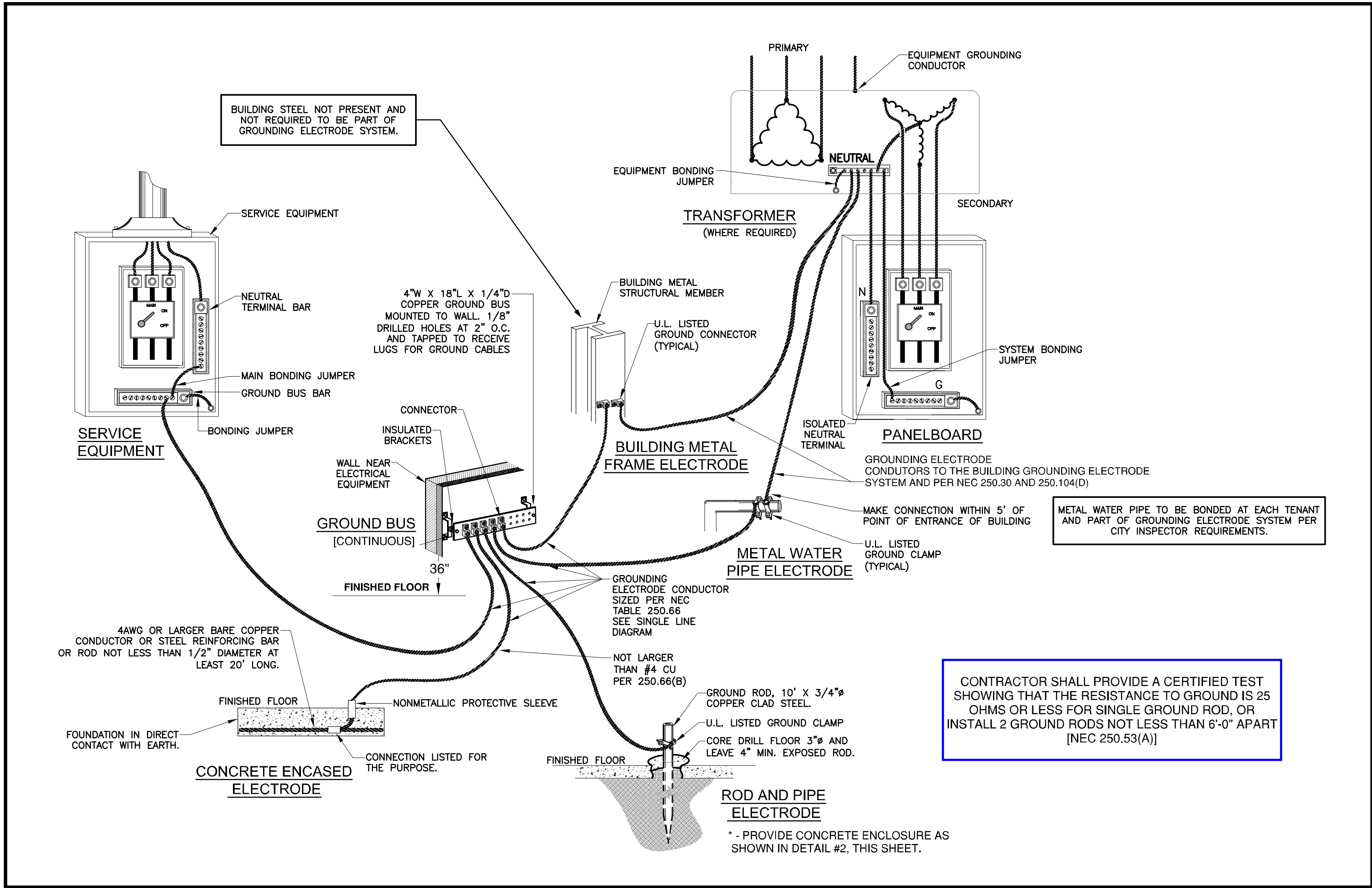
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DESIGN DEVELOPMENT REVIEW	06-24-25
ISSUED FOR PLAN CHECK	08-13-25
PLAN CHECK CORRECTIONS	11-07-25
DELTA 1 FOR PLAN CHECK	03-31-26



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DATE: 03-21-25  
DRAWN: I.J.  
CHECKED: E.P.  
SCALE: AS NOTED  
JOB NO.: 25-10

E3.0

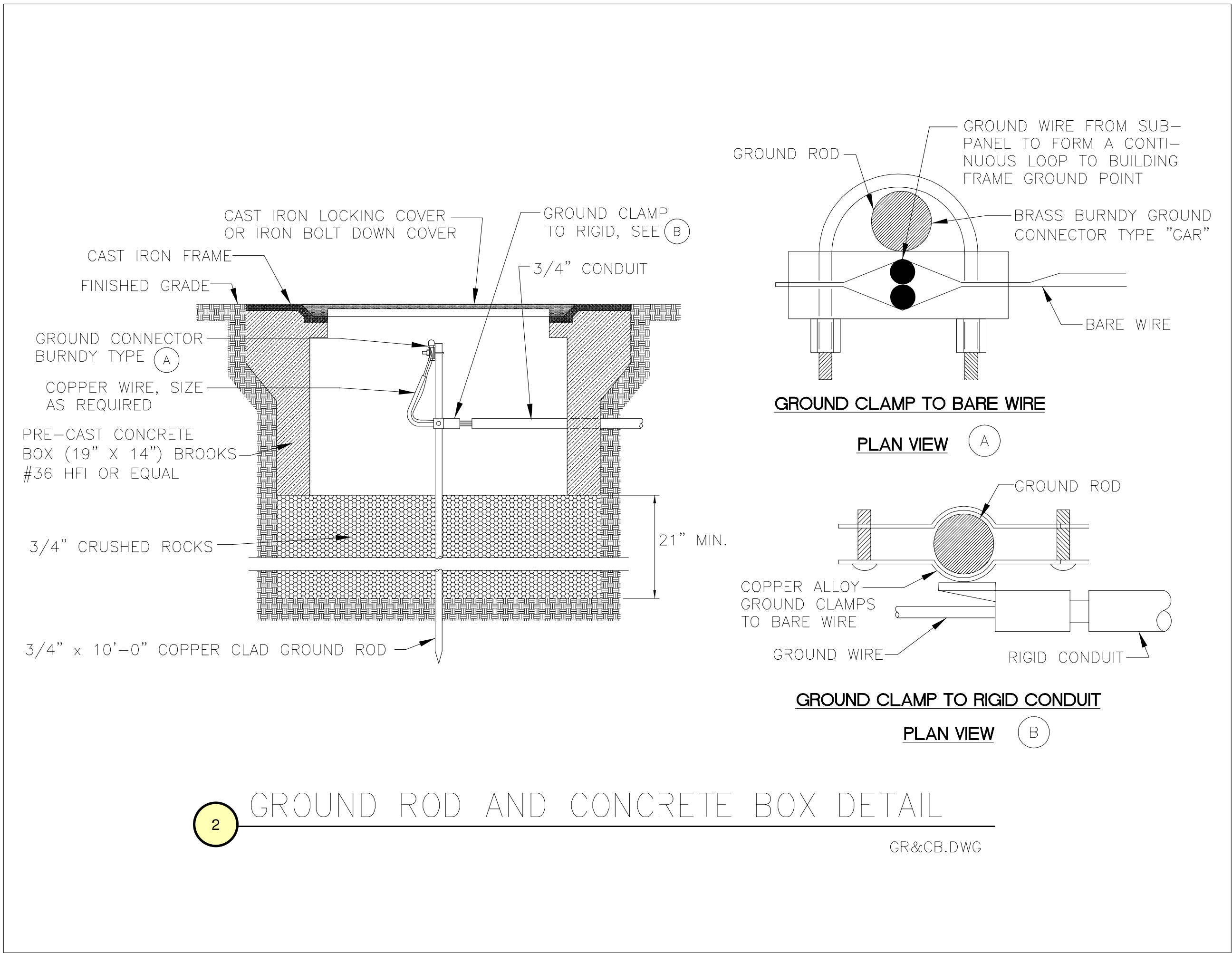
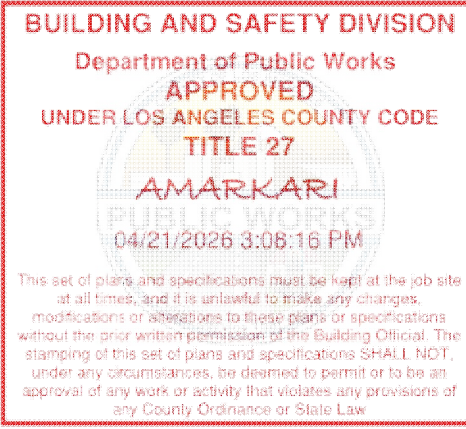
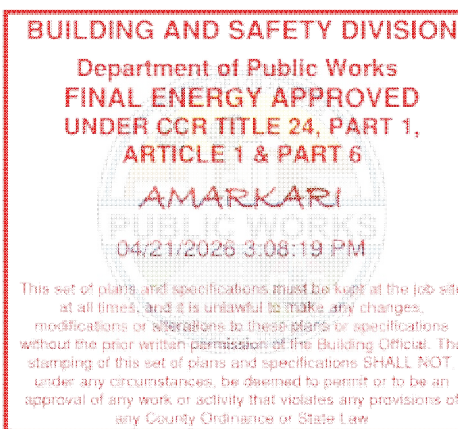


1 GROUNDING ELECTRODE CONDUCTOR SYSTEM  
SCALE: N.T.S

GROUONDING SCOPE OF WORK:

DETAIL #1 ON THIS SHEET IS GENERIC. ALL COMPONENTS OF THE SYSTEM DO NOT APPLY TO THIS PROJECT'S SCOPE OF WORK.

THE NEC DOES NOT SPECIFY THAT METAL WATER PIPE, AN IN-GROUND STRUCTURAL METAL FRAME, OR CONCRETE-ENCASED TYPE ELECTRODES HAVE TO BE INSTALLED, ONLY THAT WHERE THEY HAVE BEEN INSTALLED AS PART OF THE BUILDING CONSTRUCTION, THEY ARE TO BE USED AS COMPONENTS OF THE GROUNDING ELECTRODE CONDUCTOR SYSTEM. [NEC 250.50]



2 GROUND ROD AND CONCRETE BOX DETAIL  
GR&CB.DWG

Grounding

The following is a brief description of system and equipment grounding of permanently installed AC generators within a facility wiring system. It is important to follow the requirements of the local electrical code.

Figure 6-2 illustrates typical system grounding for a 3-pole and a 4-pole automatic transfer switch (ATS). In the 3-pole ATS, note that the generator neutral is connected to the ATS and is NOT bonded to ground at the generator. In the 4-pole ATS system, a grounding electrode conductor and a bonding jumper are used to connect the generator neutral to ground.

Make sure the genset is grounded to earth in one location only. On generators without a circuit breaker, ground to the point indicated on the top of the generator. On gensets with circuit breakers, use the ground lug provided in the circuit breaker box.

**[WARNING]** Electric current can cause severe personal injury or death. Bonding and grounding must be done properly. All metallic parts that could become energized under abnormal conditions must be properly grounded.

Typical requirements for bonding and grounding are given in the National Electrical Code, Article 250. All connections, wire sizes, etc. must conform to the requirements of the electrical codes in effect at the installation site.

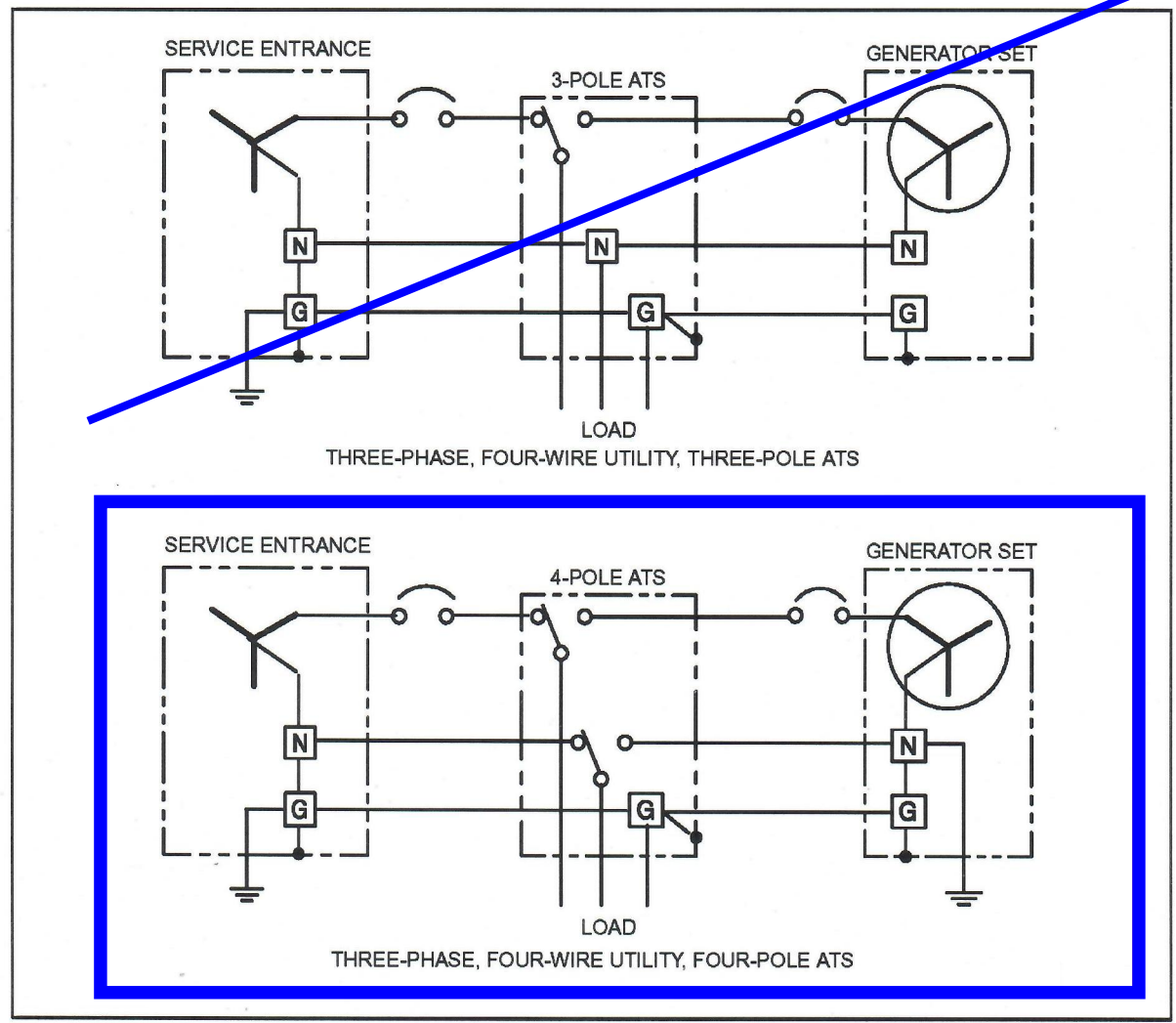


FIGURE 6-2. TYPICAL SYSTEM GROUNDING ONE-LINE DIAGRAMS (SEPARATELY DERIVED SYSTEM)

3 GROUNDING ELECTRODE CONDUCTOR SYSTEM WITH 4-POLE A.T.S.  
SCALE: N.T.S

WILLIAM LOYD JONES  
ARCHITECT

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culver city, california  
90232

TEL 310 392 3995

GROUNDING ELECTRODE  
CONDUCTOR SYSTEM DETAILS

FIRE STATION 46  
COUNTY OF LOS ANGELES FIRE DEPARTMENT  
26720 BOMBERO LANE  
VALENCIA, CALIFORNIA

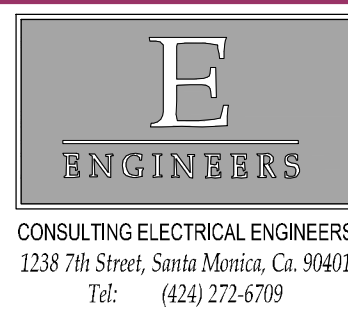
FIVE POINT.

Issue	
SCE REVIEW	03-21-25
DESIGN DEVELOPMENT REVIEW	04-07-25
ISSUED FOR PLAN CHECK	07-31-25



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Date	03-21-25
Drawn	L.J.
Checked	E.F.
Scale	AS NOTED
Job. No.	25-1



E3.1

EQUIPMENT TAG DESIGNATION	FEEDER LENGTH (FEET)	SEGMENT AND TOTAL VOLTAGE DROP (%)	AVAILABLE FAULT CURRENT (AMPS)	COMMENTS
MAIN SERVICE MSA	0	0.00%	16,900A	ESTIMATED WORST CASE VALUE FROM FULL LOAD CURRENT MOTOR CONTRIBUTION ADDITION ESTIMATE.
TRANSFER SWITCH TS-1	10'	0.07%	16,099A	
DISTRIBUTION PANELBOARD DPA	20'	0.14% 0.21%(TOTAL)	15,183A	
PANELBOARD LA	10'	0.04% 0.25%(TOTAL)	14,010A	
PANELBOARD PA	15'	0.15% 0.36%(TOTAL)	12,052A	
PANELBOARD MA	30'	0.26% 0.47%(TOTAL)	12,135A	
PANELBOARD PC	155'	0.76% 0.97%(TOTAL)	6,608A	
PANELBOARD PB	195'	1.72% 1.93%(TOTAL)	4,615A	SEE GENSET CALCULATIONS FOR WORST CASE VOLTAGE DROP PERCENTAGE.
PANELBOARD MB	195'	1.37% 1.58%(TOTAL)	4,039A	SEE GENSET CALCULATIONS FOR WORST CASE VOLTAGE DROP PERCENTAGE.
PANELBOARD A	185'	0.86% 1.07%(TOTAL)	3,612A	
PANELBOARD B	180'	1.20% 1.41%(TOTAL)	3,688A	

GENERAL NOTES FOR SINGLE LINE CALCULATIONS:

- LENGTHS OF FEEDERS AND BRANCH CIRCUITS ARE FOR ENGINEERING CALCULATIONS ONLY AND SHALL NOT BE USED FOR BIDDING OR CONSTRUCTION PURPOSES.

EQUIPMENT TAG DESIGNATION	FEEDER LENGTH (FEET)	SEGMENT AND TOTAL VOLTAGE DROP (%)	AVAILABLE FAULT CURRENT (AMPS)	COMMENTS
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GENERAL NOTES FOR SINGLE LINE CALCULATIONS:

- LENGTHS OF FEEDERS AND BRANCH CIRCUITS ARE FOR ENGINEERING CALCULATIONS ONLY AND SHALL NOT BE USED FOR BIDDING OR CONSTRUCTION PURPOSES.

EQUIPMENT TAG DESIGNATION	FEEDER LENGTH (FEET)	SEGMENT AND TOTAL VOLTAGE DROP (%)	AVAILABLE FAULT CURRENT (AMPS)	COMMENTS
STANDBY GENERATOR SET (pF = 0.8)	0	0.00%	8,251A	SUBTRANSIENT "X" = 9% (GENERATOR REACTANCE VALUE)
TRANSFER SWITCH TS-1	184'	0.84%	< 10,000A	ADDED A THIRD SET OF CONDUCTORS FOR VOLTAGE DROP.
DISTRIBUTION PANELBOARD DPA	20'	0.14% 0.98%(TOTAL)	< 10,000A	
PANELBOARD LA	10'	0.04% 1.02%(TOTAL)	< 10,000A	
PANELBOARD PA	15'	0.15% 1.13%(TOTAL)	< 10,000A	
PANELBOARD MA	30'	0.26% 1.24%(TOTAL)	< 10,000A	
PANELBOARD PC	155'	0.76% 1.74%(TOTAL)	< 10,000A	
PANELBOARD PB	195'	1.08% 2.06%(TOTAL)	< 10,000A	WIRE SIZE INCREASED TWO GAUGE SIZES FOR VOLTAGE DROP.
PANELBOARD MB	195'	1.09% 2.07%(TOTAL)	< 10,000A	WIRE SIZE INCREASED ONE GAUGE SIZE FOR VOLTAGE DROP.
PANELBOARD A	185'	0.86% 1.84%(TOTAL)	< 10,000A	
PANELBOARD B	180'	1.20% 2.18%(TOTAL)	< 10,000A	TOTAL VOLTAGE DROP OF FEEDERS PLUS BRANCH CIRCUITS SHALL BE BELOW 5.0%. ESTIMATED BRANCH CIRCUIT VOLTAGE DROP SHALL NOT EXCEED 2.8%.

EQUIPMENT TAG DESIGNATION	FEEDER LENGTH (FEET)	SEGMENT AND TOTAL VOLTAGE DROP (%)	AVAILABLE FAULT CURRENT (AMPS)	COMMENTS
STANDBY GENERATOR SET (pF = 0.8)	0	0.00%	8,251A	SUBTRANSIENT "X" = 9% (GENERATOR REACTANCE VALUE)
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DISTRIBUTION PANELBOARD DPA	20'	0.14% 0.98%(TOTAL)	< 10,000A	
PANELBOARD LA	10'	0.04% 1.02% (TOTAL)	< 10,000A	
PANELBOARD PA	15'	0.15% 1.13% (TOTAL)	< 10,000A	
PANELBOARD MA	30'	0.26% 1.24% (TOTAL)	< 10,000A	
PANELBOARD PC	155'	0.76% 1.74% (TOTAL)	< 10,000A	
PANELBOARD PB	195'	1.08% 2.06% (TOTAL)	< 10,000A	WIRE SIZE INCREASED TWO GAUGE SIZES FOR VOLTAGE DROP.
PANELBOARD MB	195'	1.09% 2.07% (TOTAL)	< 10,000A	WIRE SIZE INCREASED ONE GAUGE SIZE FOR VOLTAGE DROP.
PANELBOARD A	185'	0.86% 1.84% (TOTAL)	< 10,000A	
PANELBOARD B	180'	1.20% 2.18% (TOTAL)	< 10,000A	TOTAL VOLTAGE DROP OF FEEDERS PLUS BRANCH CIRCUITS SHALL BE BELOW 5.0%. ESTIMATED BRANCH CIRCUIT VOLTAGE DROP SHALL NOT EXCEED 2.8%.

BUILDING AND SAFETY DIVISION	BUILDING AND SAFETY DIVISION
Department of Public Works <b>FINAL EGRESS APPROVED</b> UNDER CCR TITLE 24, PART 1, <b>ARTICLE 1 &amp; PART 6</b>	Department of Public Works <b>APPROVED</b> UNDER LOS ANGELES COUNTY CODE <b>TITLE 27</b>
<b>AMARKARI</b> 04/21/2026 3:08:16 PM	<b>AMARKARI</b> 04/21/2026 3:08:16 PM
<p>This set of plans and specifications must be kept at the job site at all times, and it is unlawful to make any changes, modifications or alterations to these plans or specifications without the prior written permission of the Building Division. This stamping of any work or plans and specifications NOT under any circumstances, be deemed to permit or to be an approval of any work, assembly, structure or presentation of any kind or nature.</p>	<p>This set of plans and specifications must be kept at the job site at all times, and it is unlawful to make any changes, modifications or alterations to these plans or specifications without the prior written permission of the Building Division. This stamping of any work or plans and specifications NOT under any circumstances, be deemed to permit or to be an approval of any work or assembly of any kind or nature.</p>

[illegible]

**BUILDING AND SAFETY DIVISION**  
Department of Public Works  
**APPROVED**  
**UNDER LOS ANGELES COUNTY CODE**  
**TITLE 27**  
**AMARKARI**  
04/21/2026 3:09:16 PM

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**BUILDING AND SAFETY DIVISION**  
Department of Public Works  
**APPROVED**  
**UNDER LOS ANGELES COUNTY CODE**  
**TITLE 27**  
**AMARKARI**  
04/21/2026 3:09:16 PM

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**SINGLE LINE DIAGRAM  
CALCULATIONS**

---

**FIRE STATION 46**  
COUNTY OF LOS ANGELES FIRE DEPARTMENT  
26720 BOMBERO LANE  
VALENCIA, CALIFORNIA

**SINGLE LINE DIAGRAM  
CALCULATIONS**

---

**FIRE STATION 46**  
COUNTY OF LOS ANGELES FIRE DEPARTMENT  
26720 BOMBERO LANE  
VALENCIA, CALIFORNIA

**SINGLE LINE DIAGRAM  
CALCULATIONS**

---

**FIRE STATION 46**  
COUNTY OF LOS ANGELES FIRE DEPARTMENT  
26720 BOMBERO LANE  
VALENCIA, CALIFORNIA

**SINGLE LINE DIAGRAM  
CALCULATIONS**

---

**FIRE STATION 46**  
COUNTY OF LOS ANGELES FIRE DEPARTMENT  
26720 BOMBERO LANE  
VALENCIA, CALIFORNIA

**SINGLE LINE DIAGRAM  
CALCULATIONS**

---

**FIRE STATION 46**  
COUNTY OF LOS ANGELES FIRE DEPARTMENT  
26720 BOMBERO LANE  
VALENCIA, CALIFORNIA



**SINGLE LINE DIAGRAM  
CALCULATIONS**

---

**FIRE STATION 46**  
COUNTY OF LOS ANGELES FIRE DEPARTMENT  
26720 BOMBERO LANE  
VALENCIA, CALIFORNIA

**SINGLE LINE DIAGRAM  
CALCULATIONS**

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**FIRE STATION 46**  
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**SINGLE LINE DIAGRAM  
CALCULATIONS**

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**FIRE STATION 46**  
COUNTY OF LOS ANGELES FIRE DEPARTMENT  
26720 BOMBERO LANE  
VALENCIA, CALIFORNIA

**SINGLE LINE DIAGRAM  
CALCULATIONS**

---

**FIRE STATION 46**  
COUNTY OF LOS ANGELES FIRE DEPARTMENT  
26720 BOMBERO LANE  
VALENCIA, CALIFORNIA

**E**  
**ENGINEERS**

**CONSULTING ELECTRICAL ENGINEERS**  
1238 7th Street, Santa Monica, Ca. 90401  
Tel: (424) 272-6709

**E**  
**ENGINEERS**

**CONSULTING ELECTRICAL ENGINEERS**  
1238 7th Street, Santa Monica, Ca. 90401  
Tel: (424) 272-6709

200kW GENERATOR SET (RATED FOR 250KVA OF STANDBY POWER) MODEL #C200D6D  
WITH A 100kW LOAD BANK  
 FUEL CONSUMPTION PER MANUFACTURER:

- 50% LOAD = 8.7 GAL/HOUR
- 75% LOAD = 11.7 GAL/HOUR
- 100% LOAD = 14.9 GAL/HOUR

**FUEL STORAGE CAPACITY ON SITE:**  
**ABOVE GRADE FUEL TANK = 600 GALLONS (MIDDLE COMPARTMENT)**  
**COUPLED WITH A SMALL USABLE BELLY TANK SIZE = 351 GALLONS (951 GALLONS TOTAL)**  
**COUPLED WITH A LARGE USABLE BELLY TANK SIZE = 737 GALLONS (1,337 GALLONS TOTAL)**

**NOTES:**

- 1) ANALYSIS COMPLETED ON 03/31/2025.
- 2) PER THE CALCULATION ABOVE, THE PROPOSED GENERATOR SET SHOULD BE EQUIPPED WITH A ±500 GALLON BELLY TANK TO MEET A WORST-CASE SCENARIO OF THE GENERATOR SET RUNNING AT FULL LOAD FOR THREE DAYS.

**E**  
**ENGINEERS**  
CONSULTING ELECTRICAL ENGINEERS  
1238 7th Street, Santa Monica, Ca. 90401  
Tel: (424) 272-6709

**MSA - at 208Y/120V 3ph-4w**

0	Fire Alarm System	0.000		
0	Security System	0.000		
X	Roof Outlets	3.000		Required per NEC
	Miscellaneous	0.000	-	
	Largest Motor	0.480	-	
	Long Continuous & Lighting Load (+25%)	<u>5.550</u>	-	
	<b>SUB-TOTAL PROJECTED LOAD</b>	41.550	115	

TOTAL ALLOWED CONNECTED LOAD:	288,000	
Difference	43,533	0.15 fraction

**BUILDING AND SAFETY DIVISION**  
**Department of Public Works**  
**FINAL ENERGY APPROVED**  
**UNDER CCR TITLE 24, PART 1,**  
**ARTICLE 1 & PART 6**  
**AMARKARI**  
**04/21/2026 3:08:19 PM**

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**BUILDING AND SAFETY DIVISION**  
Department of Public Works  
**APPROVED**  
**UNDER LOS ANGELES COUNTY CODE**  
**TITLE 27**  
**AMARKARI**  
04/21/2026 3:08:16 PM

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WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THIS OFFICE MAY BE NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN ON THESE DRAWINGS OR DETAIL NOTATIONS PRIOR TO THIS OFFICE FOR APPROVAL, BEFORE PROCEEDING WITH FABRICATION.

Covington 2005

Date	03-21-25
Drawn	1.2
Checked	E.P.
Scale	AS NOTED
Job. No.	25-16

# E4.0

WILLIAM LOYD JONES  
ARCHITECT

9415 culver boulevard  
culver city, california  
9 0 2 3 2

TEL 310 392 3995

# PROJECTED LOAD CALCULATION & GENSET FUEL CONSUMPTION

**FIRE STATION 46**  
COUNTY OF LOS ANGELES FIRE DEPARTMENT  
56720 BOMBERO LANE  
#ALENCIA, CALIFORNIA

**FIVEPOINT.**

# ADDENDUM #3 - BID SET - APRIL 30, 2026

1 TYPICAL RADIO SELECTIVE CALL SYSTEM DIAGRAM  
NOT TO SCALE

Scope of Work for Contractor on SCU

Definition

- a - Blue SCU: (Blue Selective Call Unit). It is also known as Blue Communication Cabinet. Usually located at the Telecom Room or Captain's Office. Check drawing for exact location.
- b - White SCU: (White Selective Call Unit). It is also known as White Communication Cabinet. Usually located at the Telecom Room or Captain's Office. Check drawing for exact location.
- c - SCU Wall Box: (Junction Box for Blue and White SCU) is a 12 inch x 12 inch x 8 inch steel, wall-mountable box with 12 inch x 12 inch wooden board inside. Usually in the Telecom Room. Check drawings for exact location.
- d - Alarm Light Cabinet (RC): 12 inch x 12 inch x 6 inch steel, wall-mountable box with 12 inch x 12 inch wooden board inside. Usually in the Telecom Room. Check drawings for exact location.
- e - Antenna Mast: Steel poles installed on the roof for antenna mounting.
- f - Speaker Cutoff Switch: A switch(es) to cut off outside speakers of the fire station (typical).
- g - Conduit: All conduit used should be of galvanized steel.

At the Location of the SCU Wall Box (Telecom Room, check drawings for location)

- 1 - Provide and install SCU Wall Box. It should be a 12 inch x 12 inch x 6 inch steel, wall-mountable box with 12 inch x 12 inch wooden board inside.
- 2 - Provide and install an 8 foot ground rod at a corner of the Telecom Room.
- 3 - Provide and install a 1 inch conduit from the ground rod to the Antenna Mast on the roof.
- 4 - Provide and install #2 AWG ground wire in the conduit, connecting the ground rod and three Antenna Mast. Leave pull-cord in.
- 5 - Provide and install #2 AWG ground wires from the rod to the SCU Wall Box.
- 6 - Provide and install 2 (two) #2 AWG ground wires from the rod to Blue SCU and White SCU, separately.
- 7 - telecom Room: Provide and install Alarm Light Cabinet (RC), a 12 inch x 12 inch x 6 inch steel, wall-mountable box with 12 inch x 12 inch wooden board inside. Check drawings for exact location.

Throughout the Fire Station

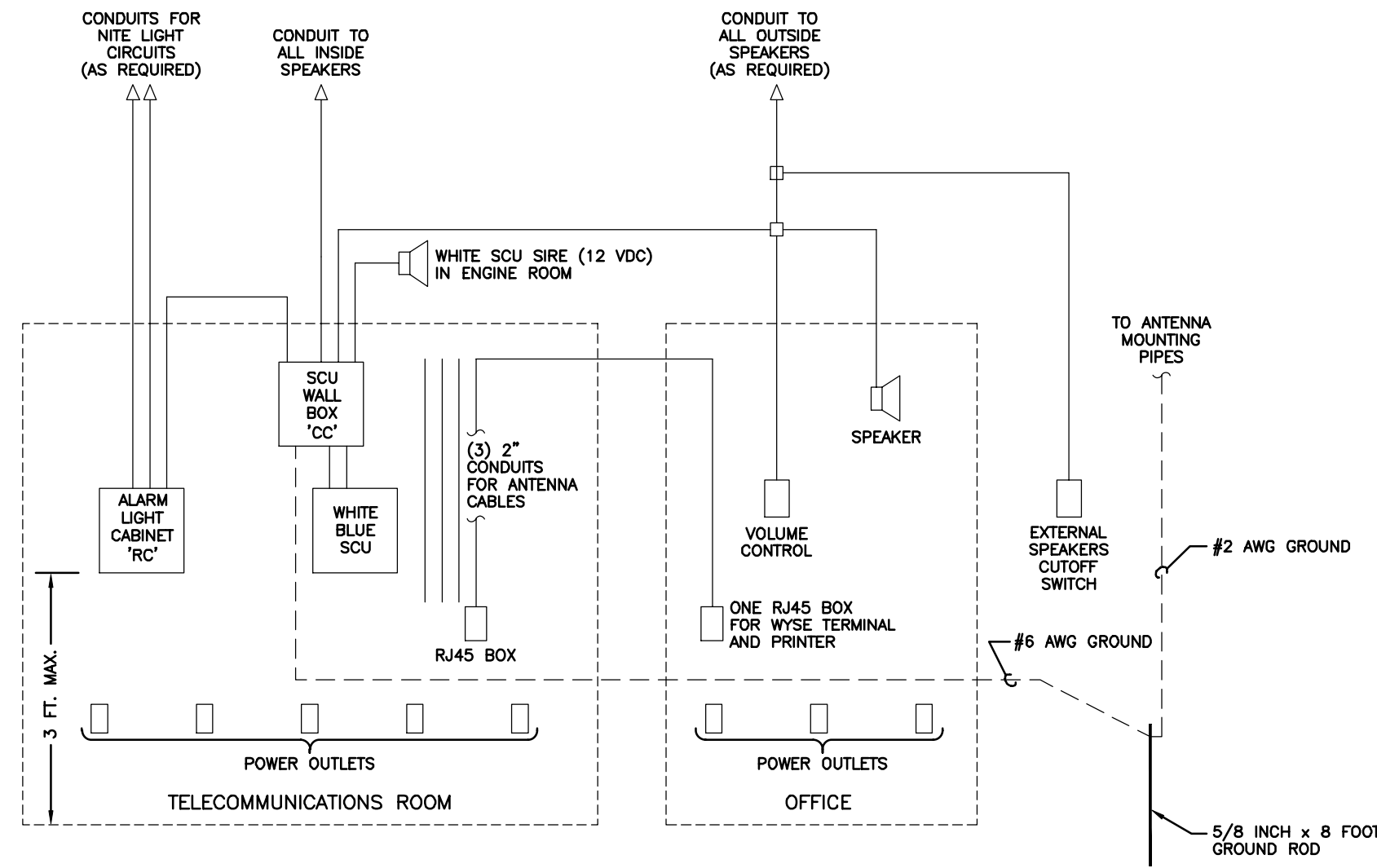
- 1 - Provide and install all inside speaker enclosures and mounting accessories, (model # Bogen S867725PG8WV, R284, MR8, T88) and all inside speakers (model # Bogen S867725PG8V) for a 70 Volt public addressing system as instructed by the drawings. The installation and tapping of the speakers should be done in close cooperation with ISD personnel.
- 2 - Provide and install all outside speaker mounts and outside speakers, model # SPT5A for a 70 Volt system as instructed by the drawings. The installation and tapping of the speakers should be done in close cooperation with ISD personnel.
- 3 - Provide and install, and home run 1 inch conduits from the SCU Wall Box to every outside speaker. Clearly label each conduit on the Wall Box end of the conduit with speaker locations (room names) connected to the conduit. Contractor should provide and install pull-ropes for the conduits and a pair of 16 Gauge speaker wire (8677) with 5 feet extra on both ends of every conduit.
- 4 - Provide and install, and home run 1 inch conduits from the SCU Wall Box to every inside speaker, or daisy-chain up to 6 (six) speakers per home run. Clearly label each conduit on the Wall Box end of the conduit with speaker locations (room names) connected to the conduit. Contractor should provide and install pull-ropes for the conduits and a pair of 16 Gauge speaker wire (8677) with 5 feet extra on both ends of every conduit.
- 5 - Provide and install 1 inch conduit from the SCU Wall Box to Speaker Cutoff Switch (check drawings for location, usually at Captain's Office). Provide and install pull-rope for the conduit and a pair of 16 Gauge wire (8677) with 5 feet extra on both ends of the conduit.
- 6 - Provide and install 1 inch conduit from SCU Wall Box to the Speakers, wall-mounted in the Apparatus Room. Contractor should install pull-rope for the conduit and a pair of 16 Gauge wire (8677) with 5 feet extra on both ends of the conduit.
- 7 - Provide and install 1 inch conduit from SCU Wall Box to Alarm Light Cabinet "RC" (check drawings for location, usually at Telecom Room or Electrical Room). Provide and install pull-rope for the conduit and 2 (two) pairs of 12 Gauge wire with 5 feet extra on both ends of the conduit. Label each pair with different color (Blue, White).
- 8 - Provide and install 2 inch conduit home run from Antenna Mast to the location of Blue SCU Cabinet (usually at the Telecom Room) for UHF Voice Antenna. Minimum bending radius for the conduit should be no less than 8 inches. At the mast, the conduit should be rigid, with weather head. Conduit stubs into communications room above SCU cabinet, about 1-1/2 feet below ceiling. Maximum of 3 bends/sweeps are allowed. Leave pull-rope in the conduit.
- 9 - Provide and install 2 inch conduit home run from Antenna Mast to the location of Blue SCU Cabinet for UHF Data Antenna. Minimum bending radius for the conduit should be no less than 8 inches. At the mast, the conduit should be rigid, with weather head. Conduit stubs into communications room above SCU cabinet, about 1-1/2 feet below ceiling. Maximum of 3 bends/sweeps are allowed. Leave pull-rope in the conduit.
- 10 - Provide and install 2 inch conduit home run from Antenna Mast to the location of White SCU Cabinet for VHF Voice Antenna. Minimum bending radius for the conduit should be no less than 8 inches. At the mast, the conduit should be rigid, with weather head. Conduit stubs into communications room above SCU cabinet, about 1-1/2 feet below ceiling. Maximum of 3 bends/sweeps are allowed. Leave pull-rope in the conduit.
- 11 - Provide and install 1 inch conduit for the Alarm Light Cabinet "RC" to Night Lights/Call Lights.
- 12 - Provide and install 1 inch conduits and pull-ropes from SCU Wall Box to the printer and monitor locations. Check drawings for exact locations.

Secondary location for the Printer and Monitor (if required)

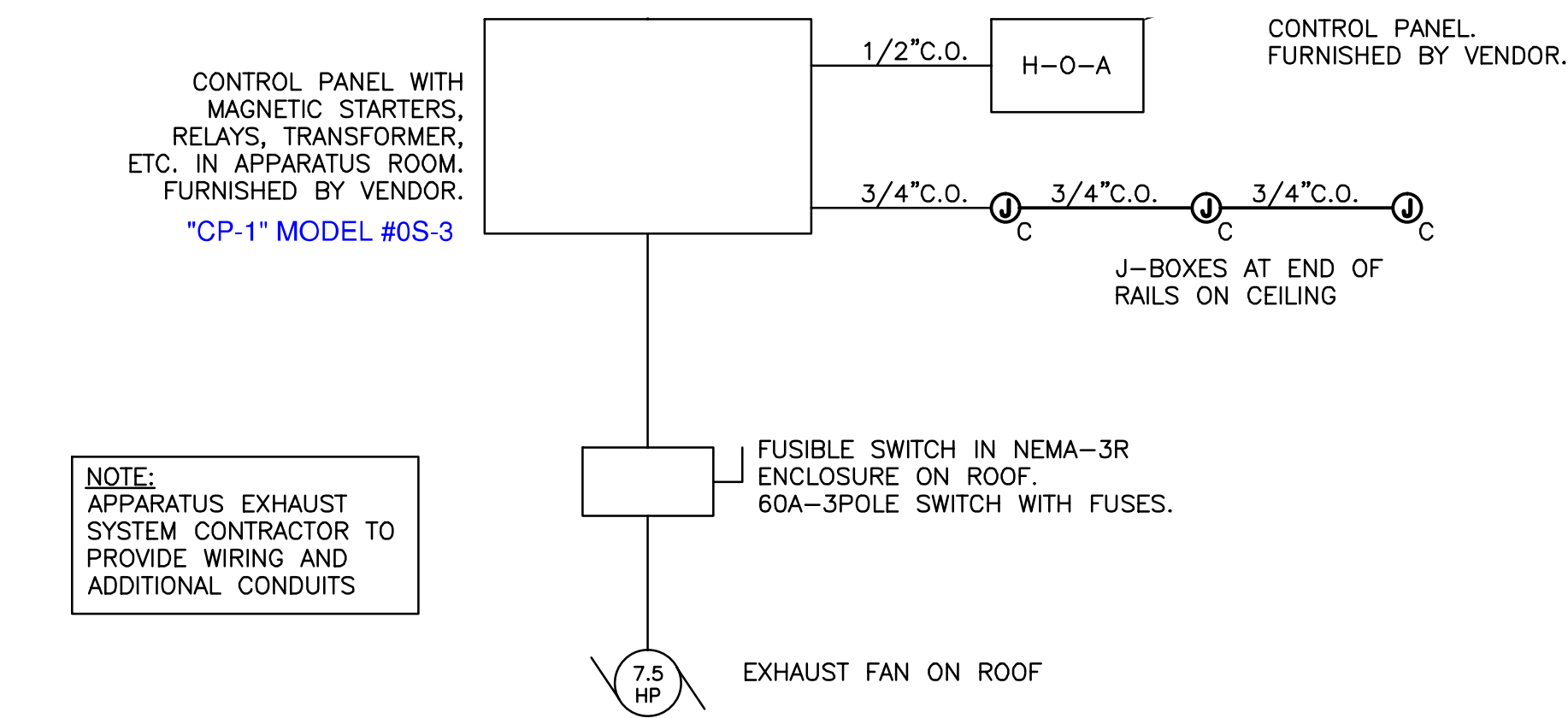
- 1 - Provide and install 1 inch conduits and pull-ropes from SCU Wall Box to the location of secondary printer and monitor locations. Check drawings for exact location.

Roof Antenna Mount

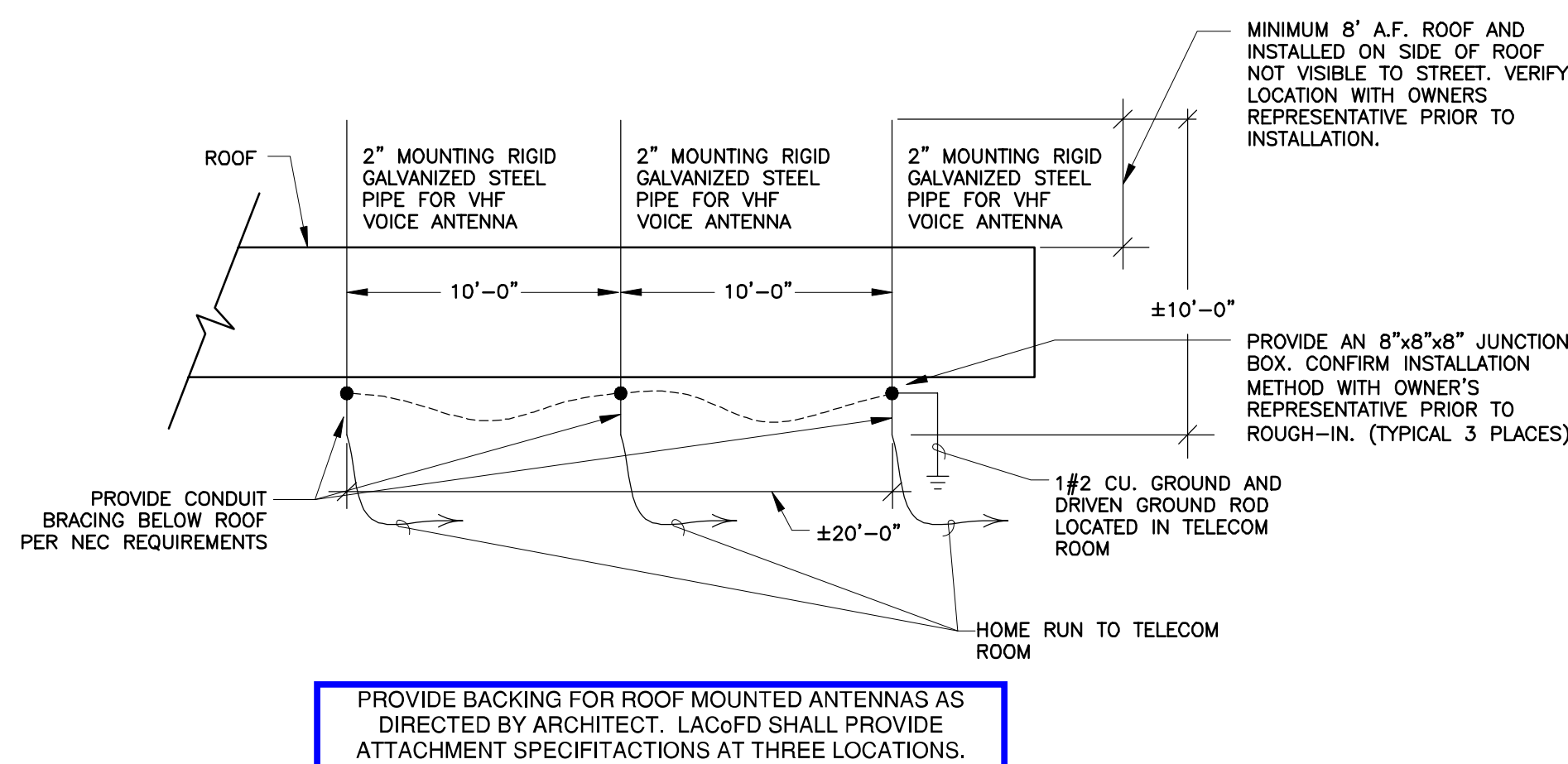
- 1 - Provide and install Roof Antenna Mounts per requirements on the drawings.
- 2 - Each Antenna Mount should be separated by 10 feet.
- 3 - Provide and install #2 AWG ground wire for each mount to the Telecom Room ground rod.
- 4 - Antenna Mount should be 8 feet above finished roof and should be invisible from the street.
- 5 - Provide bracing below roof per NBC requirement.
- 6 - The Antenna Mount should be of 1-1/2 inch rigid, galvanized steel pipe and capped. (8" preferred)
- 7 - The Antenna Mount should be 4 feet in height above the roof.



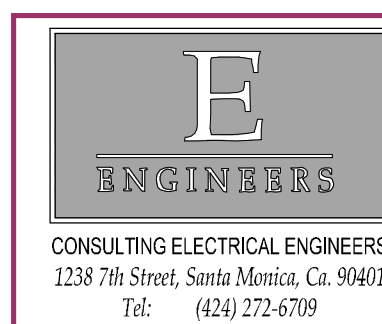
2 HOSE TOWER WIRING DIAGRAM  
SCALE: NONE



3 APPARATUS EXHAUST SYSTEM DIAGRAM SCHEMATIC  
SCALE: NONE



4 TYPICAL ROOF ANTENNA ARRANGEMENT  
SCALE: NONE



WILLIAM LOYD JONES  
ARCHITECT

9415 culver boulevard  
culver city, california  
9 0 2 3 2

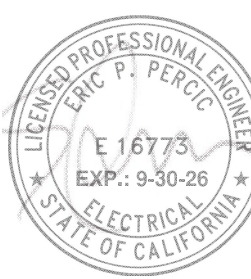
TEL 310 392 3995

ELECTRICAL DETAILS

FIRE STATION 46  
COUNTY OF LOS ANGELES FIRE DEPARTMENT  
26720 BOMBERO LANE  
VALENCIA, CALIFORNIA

Issue

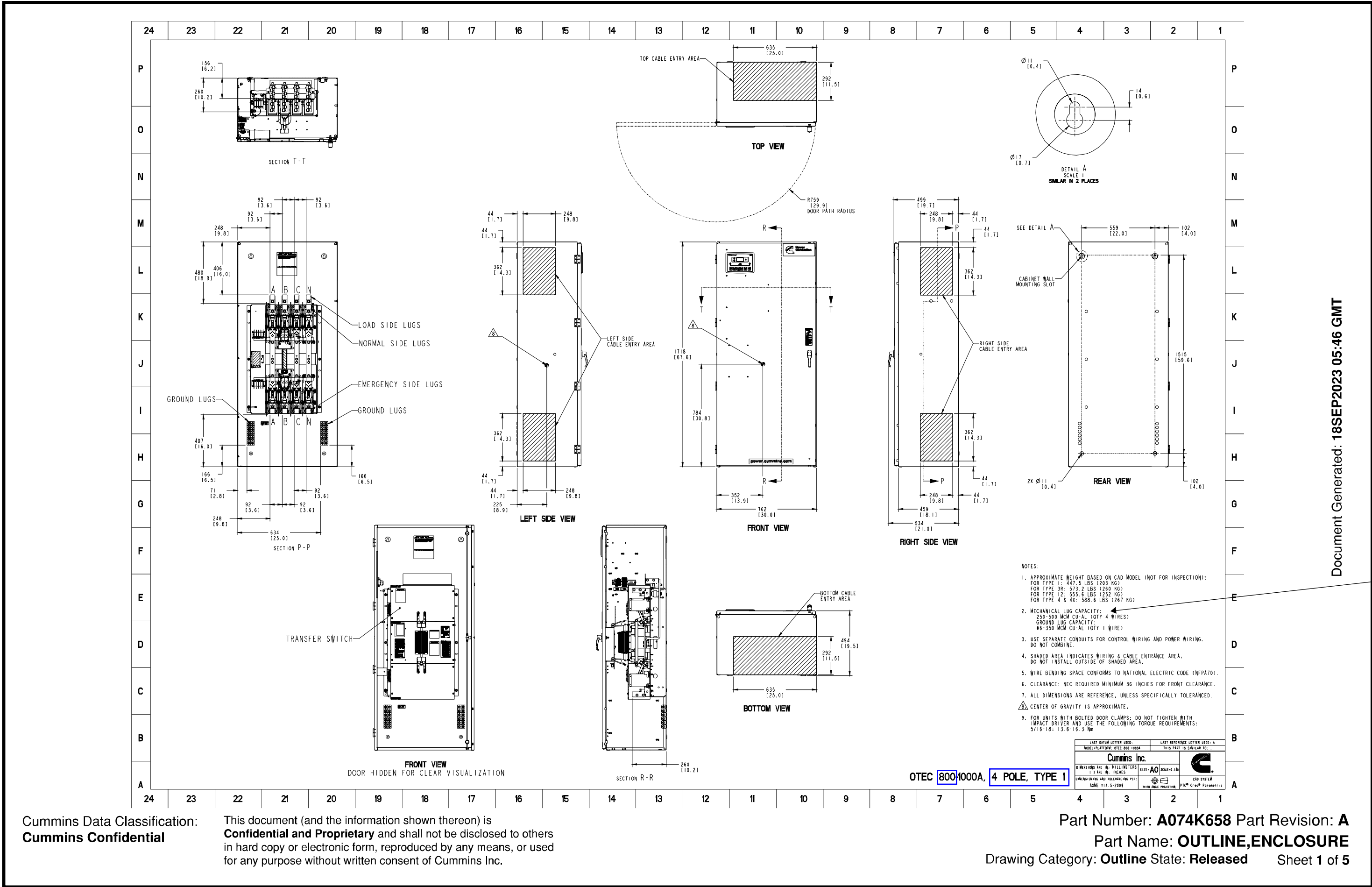
DESIGN DEVELOPMENT REVIEW	06-30-25
ISSUED FOR PLAN CHECK	07-31-25
PLAN CHECK CORRECTIONS	09-28-25



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Date	03-21-25
Drawn	1.2
Checked	E.F.
Scale	AS NOTED
Job. No.	25-1

E4.1



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MECHANICAL LUG CAPACITY SHALL BE UPGRADED TO THREE SETS OF 500kcmil, WHICH IS THE WORST CASE FROM THE GENERATOR SET.

CONTACT SALES REP JOHN T. CHEN PROIR TO ORDER:  
O: (949)862-7272  
M: (949) 337-5268

#### CONTRACTOR NOTES: SEAL-OFF REQUIREMENTS IN HAZARDOUS AREAS

THESE NOTES OUTLINE THE MANDATORY REQUIREMENTS FOR INSTALLING SEAL-OFFS IN HAZARDOUS CLASSIFIED LOCATIONS. STRICTLY ADHERING TO THE NATIONAL ELECTRICAL CODE (NEC), PROPER INSTALLATION IS CRITICAL TO PREVENTING THE SPREAD OF FLAMMABLE GASES, VAPORS, OR DUSTS AND MAINTAINING THE INTEGRITY OF THE ELECTRICAL SYSTEM, THEREBY MINIMIZING IGNITION RISKS.

**1. GENERAL REQUIREMENTS AND PURPOSE:** ALL CONDUIT RUNS ENTERING OR LEAVING A HAZARDOUS (CLASSIFIED) AREA MUST BE FITTED WITH AN APPROVED SEAL-OFF FITTING.

#### 2. SEAL-OFF INSTALLATION GUIDELINES (NEC COMPLIANT):

ENSURE ALL INSTALLATIONS STRICTLY FOLLOW NEC REQUIREMENTS AND MANUFACTURER INSTRUCTIONS.

APPROVED MATERIALS: USE ONLY LISTED SEAL-OFF FITTINGS AND THE MANUFACTURER'S APPROVED SEALING COMPOUND THAT IS SUITABLE FOR THE SPECIFIC HAZARDOUS ENVIRONMENT (GAS/VAPOR OR DUST) AND RESISTANT TO ENVIRONMENTAL CONDITIONS, AS PER NEC.

FIBER DAM INSTALLATION: PROPERLY INSTALL THE SUPPLIED FIBER DAM (OR OTHER APPROVED PACKING MATERIAL) TO CREATE A TIGHT BARRIER. THIS IS CRITICAL FOR CONTAINING THE SEALING COMPOUND DURING POURING AND SEPARATING CONDUCTORS FOR AN EFFECTIVE SEAL.

CONDUCTOR FILL: THE CROSS-SECTIONAL AREA OF THE CONDUCTORS WITHIN THE SEAL-OFF FITTING SHALL NOT EXCEED 25% OF THE CROSS-SECTIONAL AREA OF THE CONDUIT, UNLESS THE FITTING IS SPECIFICALLY LISTED FOR A HIGHER FILL, AS NOTED IN NEC. THIS ENSURES PROPER COMPOUND PENETRATION AROUND EACH CONDUCTOR.

PROHIBITED SPLICES/TAPS: NO SPLICES, TAPS, OR SPLICES FOR CONNECTION TO THE CONDUCTORS IN THE SEAL FITTING SHALL BE MADE WITHIN A SEAL-OFF FITTING, PER NEC 501.

INTERMEDIATE FITTINGS: ONLY EXPLOSIONPROOF UNIONS, COUPLINGS, REDUCERS, ELBOWS, AND CAPPED ELBOWS THAT ARE NOT LARGER THAN THE TRADE SIZE OF THE CONDUIT ARE PERMITTED BETWEEN THE SEALING FITTING AND THE EXPLOSIONPROOF ENCLOSURE IN CLASS I, DIVISION 1 LOCATIONS, AS PER NEC 501.

#### 3. INSPECTION AND DOCUMENTATION:

POST-INSTALLATION VERIFICATION AND RECORD-KEEPING ARE MANDATORY FOR NEC COMPLIANCE AND SAFETY.

VISUAL VERIFICATION: CONDUCT A THOROUGH VISUAL INSPECTION TO CONFIRM THE SEAL-OFF FITTING IS FULLY FILLED, THE COMPOUND IS FLUSH, AND NO VOIDS OR CRACKS ARE PRESENT.

TIGHTNESS & INTEGRITY: ENSURE ALL CONDUIT AND FITTING CONNECTIONS ARE WRENCH-TIGHT TO MAINTAIN THE SYSTEM'S EXPLOSIONPROOF OR DUST-IGNITION PROOF INTEGRITY.

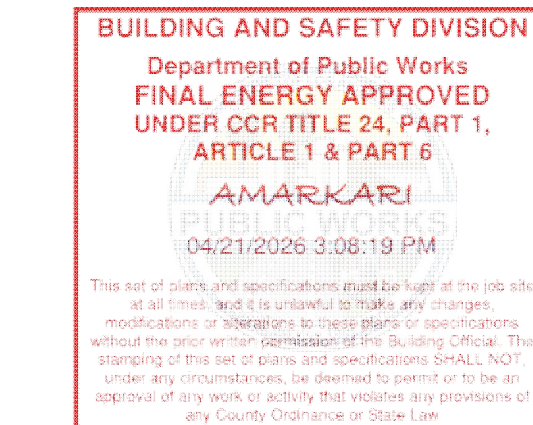
AREA CLASSIFICATION: VERIFY THAT ALL INSTALLED EQUIPMENT AND FITTINGS ARE CORRECTLY LISTED AND LABELED FOR THE SPECIFIC CLASS, DIVISION, GROUP, AND TEMPERATURE CODE OF THE HAZARDOUS AREA, IN ACCORDANCE WITH NEC ARTICLE 500.

ACCESSIBILITY: ENSURE SEAL FITTINGS ARE INSTALLED IN ACCESSIBLE LOCATIONS, AS REQUIRED BY THE NEC.

RECORD-KEEPING: MAINTAIN DETAILED RECORDS INCLUDING THE DATE OF INSTALLATION, LOCATION, TYPE OF SEAL-OFF, QUANTITY OF COMPOUND USED, AND INSTALLER'S NAME.

## 1 CONDUIT SEAL-OFF REQUIREMENTS & LOCATIONS

SCALE: NOT TO SCALE



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TEL 310 392 3995

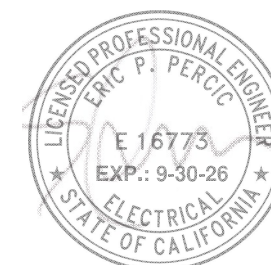
ELECTRICAL DETAILS

FIRE STATION 46  
COUNTY OF LOS ANGELES FIRE DEPARTMENT  
26720 BOMBERO LANE  
VALENCIA, CALIFORNIA

FIVE POINT.

Issue

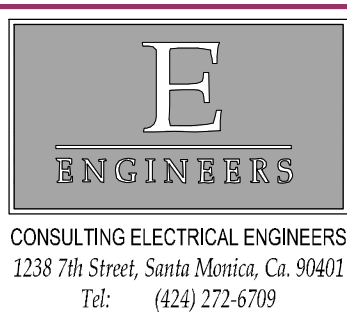
DESIGN DEVELOPMENT REVIEW 06-30-25  
ISSUED FOR PLAN CHECK 07-31-25



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WITHIN THE SCOPE OF THEIR AGREEMENT, CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS IN THE JOB AND THIS OFFICE SHALL BE NOTIFIED OF ANY VIOLATIONS OF THESE RESTRICTIONS AND CORRECTED THIS OFFICE FOR APPROVAL BEFORE PROCEEDING WITH TRANSLATION.

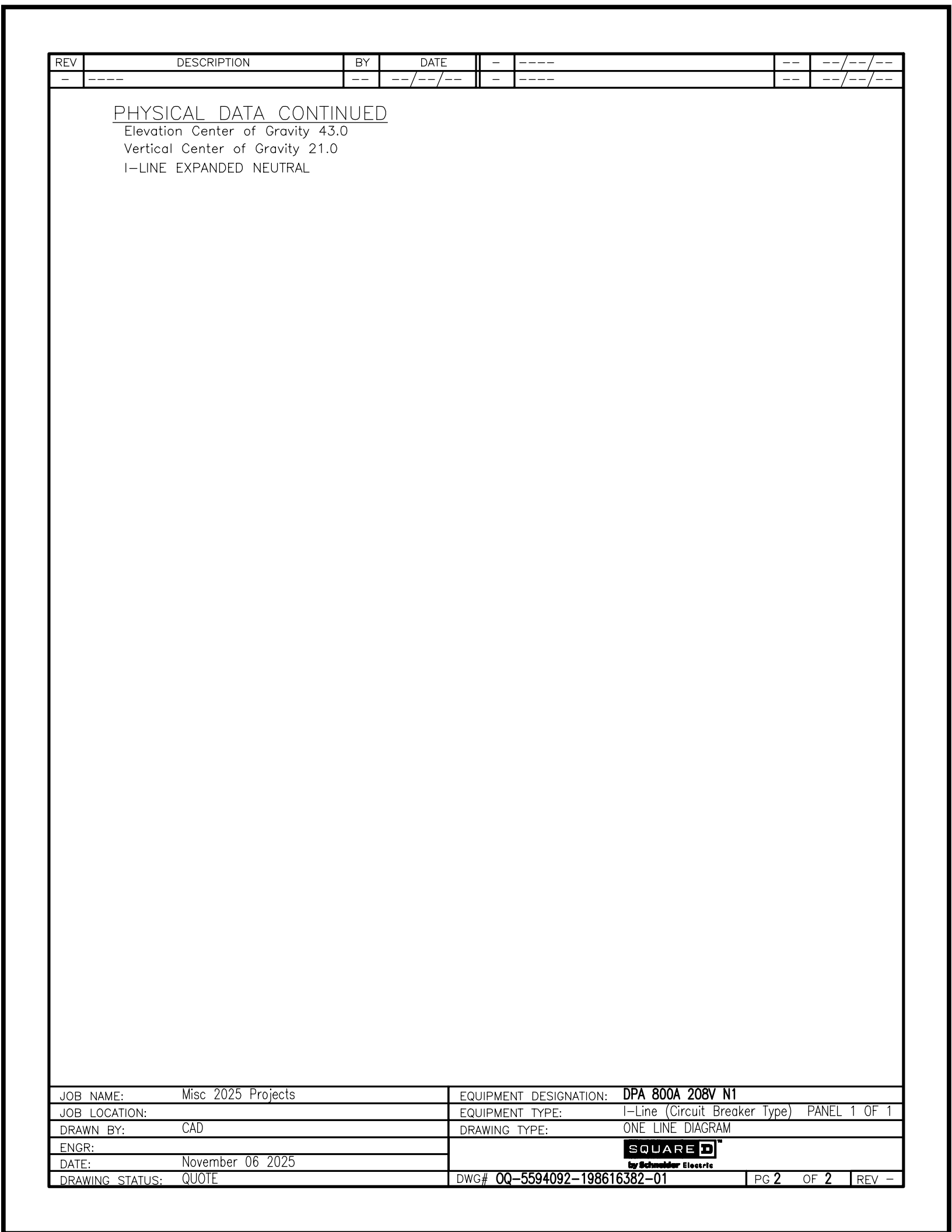
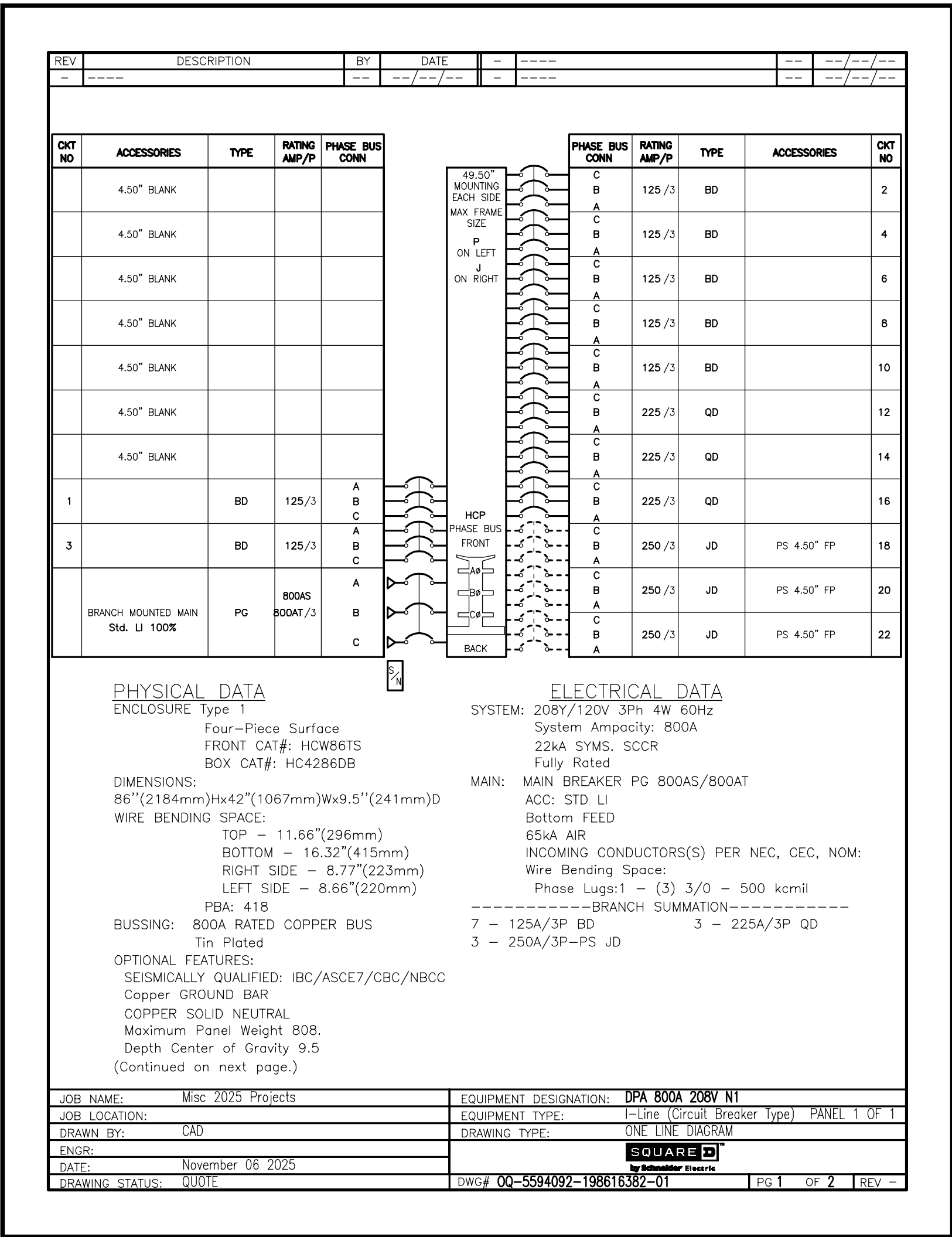
Date 03-21-25  
Drawn L.J.  
Checked E.F.  
Scale AS NOTED  
Job. No. 25-1



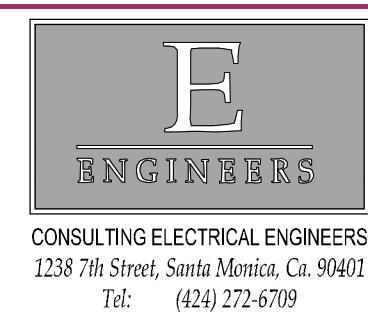
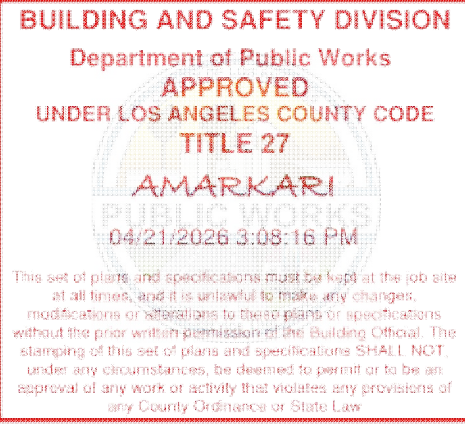
E4.2

## 2 AUTOMATIC TRANSFER SWITCH 'TS-1'

SCALE: NOT TO SCALE



1 DISTRIBUTION PANELBOARD 'DPA'  
SCALE: NOT TO SCALE



WILLIAM LOYD JONES  
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culver city, california  
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TEL 310 392 3995

ELECTRICAL DETAILS  
FIRE STATION 46  
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26720 BOMBERO LANE  
VALENCIA, CALIFORNIA  
FIVE POINT.

Issue  
DESIGN DEVELOPMENT REVIEW 06-30-25  
ISSUED FOR PLAN CHECK 07-31-25  
PLAN CHECK CORRECTIONS 11-07-25

Date 03-21-25  
Drawn 1.2  
Checked E.F.  
Scale AS NOTED  
Job No. 25-1

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DATE 03-21-25  
DRAWN 1.2  
CHECKED E.F.  
SCALE AS NOTED  
JOB NO. 25-1



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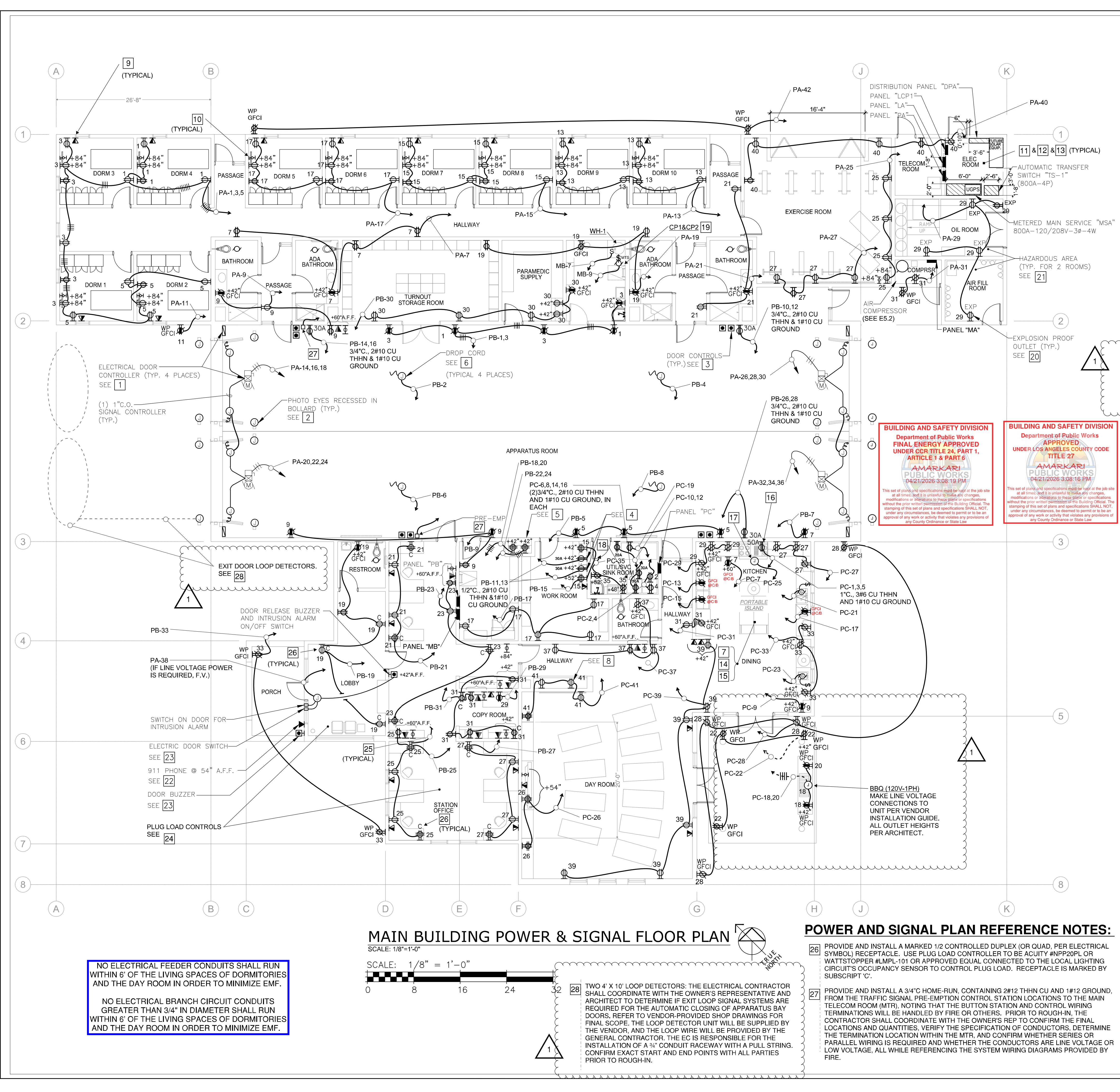
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POWER AND SIGNAL PLAN REFERENCE NOTES:

- ELECTRIC FOUR-FOLD DOOR WITH CONTROLLER, 208V-3PH, 2HP. MAKE ALL LINE VOLTAGE CONNECTIONS TO THE VENDOR FURNISHED CONTROLLER WITH INTEGRAL 30A DISCONNECT SWITCH AND 10A DUAL ELEMENT FUSES. CONFIRM FINAL UNIT LOCATION AND SPECIFICATION WITH OWNER'S REP PRIOR TO ROUGH-IN.
- PROVIDE ALL LOW VOLTAGE CONDUIT AND CONTROL WIRING (#16 CU THHN) BETWEEN THE FOUR-FOLD DOOR CONTROLLER, LIMIT SWITCHES, PHOTO ELECTRIC EYES, AND REVERSING DEVICES AS DIRECTED BY THE SYSTEM INSTALLER. ESTIMATED SIZE OF CONDUITS IS 1/2" FOR INDIVIDUALLY WIRED INPUT DEVICES. ALL LOW VOLTAGE WIRING TERMINATIONS SHALL BE COMPLETED BY THE VENDOR. INSTALLATION OF THE CONDUCTORS IN THE RACEWAYS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. CONFIRM FINAL SPECIFICATIONS WITH OWNER'S REP PRIOR TO BIDDING.
- DOOR OPEN/CLOSE PUSH BUTTON DEVICE FURNISHED BY VENDOR. PROVIDE ALL LOW VOLTAGE CONDUIT RACEWAY WITH #16 CU THHN BETWEEN STATIONS FOR MASTER/SLAVE CONTROL OF DOORS. CONFIRM QUANTITIES AND EXACT LOCATION WITH OWNER'S REP AND VENDOR PRIOR TO ROUGH-IN.
- A QUANTITY OF TWO SINGLE, STRAIGHT BLADE 120V-1PH-30A NEMA #5-30 RATED OUTLETS ON A DEDICATED BRANCH CIRCUIT. CONFIRM SPECIFICATIONS, QUANTITY WITH ARCHITECT AND OWNER'S REP PRIOR TO ROUGH-IN.
- DEDICATED BATTERY CABINET CHARGING OUTLET AT 120V-20A. PROVIDE 2 BRANCH CIRCUITS FOR EACH QUAD RECEPTACLE. SEE ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION OF RECEPTABLES.
- PROVIDE AND INSTALL A CEILING MOUNTED JUNCTION BOX FOR CONNECTION TO DROP CORD DEVICE FURNISHED BY THE OWNER. ALL CONNECTIONS TO BE MADE FOR QUICK AND SAFE DISCONNECTION WITH BREAK-AWAY CAPABILITY. USE A 20A FACELESS GFCI OUTLET INSIDE THE JUNCTION BOX WITH INDICATORS MOUNTED ON THE WALLS OF THE APPARATUS BAY AS DIRECTED BY THE OWNER'S REP. ELEVATIONS OF THE INDICATORS ARE APPROXIMATELY +7'-0" A.F.F. CONFIRM CEILING LOCATIONS OF THE JUNCTION BOXES WITH OWNER'S REP PRIOR TO ROUGH-IN.
- THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PRECISELY DETERMINING THE RECEPTACLE LOCATIONS AND MOUNTING HEIGHTS FOR ALL KITCHEN APPLIANCES BY READING THE CORRESPONDING APPLIANCE INSTALLATION GUIDES. PRIOR TO COMMENCING ANY ROUGH-IN WORK, THE CONTRACTOR SHALL CONFIRM THE SPECIFIC ELECTRICAL CONNECTION REQUIREMENTS WITH THE OWNER'S REPRESENTATIVE AND VENDOR FURNISHING THE APPLIANCE. SEE ARCHITECTURAL ELEVATIONS TO ESTABLISH THE GENERAL PLACEMENT OF RECEPTABLES BEFORE ANY ROUGH-IN ACTIVITIES ARE UNDERTAKEN. ESTIMATED HEIGHTS ARE +42" A.F.F. ALIGNED HORIZONTALLY.
- LOCATE OUTLETS INSIDE CASEWORK AS DIRECTED BY ARCHITECT.
- TELEPHONE/DATA WALL OUTLET. PROVIDE AND INSTALL A PLASTER RING AND JUNCTION BOX WITH 3/4"C.O. STUB UP TO ACCESSIBLE CEILING SPACE OR LOW VOLTAGE RACEWAY SYSTEM FOR DATA CABLING BY OTHERS. CONFIRM FINAL LOCATION WITH ARCHITECT OR OWNER'S REP PRIOR TO ROUGH-IN.
- CABLE TV WALL OUTLET. PROVIDE AND INSTALL A PLASTER RING AND JUNCTION BOX WITH 3/4"C.O. STUB UP TO ACCESSIBLE CEILING SPACE OR LOW VOLTAGE RACEWAY SYSTEM FOR DATA CABLING BY OTHERS. COORDINATE LOCATION WITH TV BRACKET INSTALLATION GUIDE. CONFIRM FINAL LOCATION WITH ARCHITECT OR OWNER'S REP PRIOR TO ROUGH-IN.
- MAINTAIN MINIMUM CODE REQUIRED WORKING SPACE CLEARANCE OF 3'-0" ABOUT ELECTRICAL EQUIPMENT, PER NEC ARTICLE 110.26. IN ADDITION, ALL DISCONNECT SWITCHES AND CIRCUIT BREAKER HANDLES SHALL BE INSTALLED SO THAT THE CENTER OF THE GRIP OF THE OPERATING HANDLE WHEN IN THE HIGHEST POSITION IS NOT MORE THAN 6'-7" A.F.F.
- NO PIPING, DUCTS, LEAK PROTECTION APPARATUS, OR OTHER EQUIPMENT FOREIGN TO THE ELECTRICAL INSTALLATION SHALL BE ALLOWED IN THE DEDICATED SPACE ABOVE AND BELOW ELECTRICAL PANELS. THE SPACE EQUAL TO THE WIDTH AND DEPTH OF THE EQUIPMENT AND EXTENDING FROM THE FLOOR TO A HEIGHT OF 6 FEET ABOVE THE ELECTRICAL EQUIPMENT OR TO THE STRUCTURAL CEILING, WHICHEVER IS LOWER, SHALL BE DEDICATED TO THE ELECTRICAL INSTALLATION.
- A RECESSED PANEL REQUIRES A 6" THICK WALL (TYPICAL).
- RECEPTABLES SERVING THE KITCHEN COUNTERS SHALL BE GFCI TYPE.
- ALL 15 AND 20A 120V RECEPTABLES INSTALLED IN KITCHEN AND FOOD PREP AREAS SHALL BE GFCI PROTECTED AND "READILY ACCESSIBLE (NEC210.8). ACCESSIBILITY TO RECEPTACLE SHALL NOT REQUIRE MOVEMENT OF EQUIPMENT AND/OR ANY ADDITIONAL TOOLS, LIKE A LADDER, IN ORDER TO GAIN ACCESS TO THE RECEPTACLE. IF RECEPTABLES ARE NOT ABLE TO BE LOCATED IN AN ACCESSIBLE SPACE, PROVIDE AND INSTALL A GFCI TYPE CIRCUIT BREAKER FOR THE CIRCUIT IN THE PANELBOARD SERVICE THE APPLIANCE.
- SIX-BURNER RANGE, 208V-1PH, 40 F.L.A. MAKE ALL LINE VOLTAGE CONNECTIONS TO VENDOR FURNISHED RANGE. PROVIDE AND INSTALL A RECEPTACLE AS INSTRUCTED IN THE VENDORS EQUIPMENT INSTALLATION GUIDE. CONFIRM FINAL SPECIFICATIONS WITH OWNER'S REP PRIOR TO ROUGH-IN.
- THE KITCHEN HOOD SYSTEM 120V-1PH WITH FLA RATING OF 11.6A. PROVIDE ALL LINE VOLTAGE POWER CONNECTIONS TO THE VENDOR FURNISHED HOOD UNIT, SUPPLYING THE EXHAUST FAN, LIGHTING, AND CONTROL SWITCHES. THE SYSTEM MUST BE HARD-WIRED, AND THE REQUIRED JUNCTION BOX MUST BE LOCATED ABOVE THE HOOD, SITUATED BETWEEN THE DUCT AND THE DECORATIVE STAINLESS-STEEL SHROUD AS DIRECTED BY THE ARCHITECT. PRIOR TO ROUGH-IN, THE FINAL JUNCTION BOX LOCATION AND COMPLETE HOOD SPECIFICATIONS MUST BE CONFIRMED WITH THE MECHANICAL CONTRACTOR, AND THE MANUFACTURER'S INSTALLATION MANUAL MUST BE REFERENCED. USE OF A RECEPTACLE IN LIEU OF A HARD-WIRED JUNCTION BOX IS PERMITTED ONLY WITH EXPLICIT WRITTEN APPROVAL FROM THE AUTHORITY HAVING JURISDICTION (AHJ).
- PROVIDE A DEDICATED 250V, SINGLE-PHASE CIRCUIT FOR EACH OF THE TWO ELECTRIC DRYERS. CONFIRM ESTIMATED LOAD OF 5,000W WITH OWNER'S REP PRIOR TO ROUGH-IN. CONFIRM SPECIFICATION OF RECEPTACLE AND LOCATION OF OUTLETS WITH ARCHITECT AND VENDOR'S INSTALLATION MANUAL PRIOR TO ROUGH-IN. WASHER AND DRYERS ARE STACKABLE VERSIONS.
- WATER HEATER FRACTIONAL HP CIRCULATION PUMPS #1 AND #2 - 120V-1PH. PROVIDE AND INSTALL A LOCKABLE, LOCAL DISCONNECT THAT IS SINGLE POLE AND DOUBLE THROW (SPDT) WITH CENTER, OFF AND LOCKING SWITCH. MAKE ALL LINE VOLTAGE CONNECTIONS TO ELECTRONIC IGNITION SYSTEM; AQUASTAT; PUMPS PER PLUMBING WIRING DIAGRAM ON SHEET P5.1. BRANCH CIRCUIT FOR PUMPS TO BE ROUTED VIA RELAY PANEL LCP-1. CONFIRM FINAL SPECIFICATION WITH PLUMBING CONTRACTOR PRIOR TO ROUGH-IN.
- RECEPTACLE TO BE MANUFACTURED BY COOPER CROUSE-HINDS, ARKTITE SERIES MODEL #OPS OR PREAPPROVED EQUAL. RATING OF RECEPTACLE SHALL BE 120V-1PH, 20A.
- ALL CONDUIT AND ELECTRICAL DEVICES SERVING THE OXYGEN CASCADE AND OIL ROOMS ARE CONSIDERED TO BE CLASS I, DIVISION 2 INSTALLATIONS AND SHALL BE IN ACCORDANCE WITH NEC ARTICLES 500 AND 514 REQUIREMENTS. PROVIDE AND INSTALL CONDUIT SEAL-OFFS AND FITTINGS AT HAZARDOUS/NON-HAZARDOUS BOUNDARIES IN POSSIBLE LOCATIONS. RUN BRANCH CIRCUIT CONDUIT RACEWAYS EXPOSED AND OVERHEAD IN THESE ROOMS.
- RECESSED WEATHERPROOF JUNCTION BOX FOR A 911 TELEPHONE. PROVIDE AND INSTALL A 1" C.O. WITH PULL STRING TO MAIN TELEPHONE TERMINAL BACKBOARD AS DIRECTED BY OWNER'S REP.
- DOOR BUZZER AND AUTOMATIC DOOR OPEN DEVICE, MOUNTED ADJACENT TO 911 TELEPHONE BOX. PROVIDE ALL LOW VOLTAGE RACEWAY NECESSARY FOR INTERCONNECTION TO THE BUZZER SYSTEM. BUZZER SYSTEM TO SOUND WHEN THE FRONT DOOR IS OPENED. CONFIRM SYSTEM REQUIREMENTS WITH VENDOR, ARCHITECT AND OWNER'S REP PRIOR TO ROUGH-IN AND INSTALLATION. IT IS ASSUMED THAT LINE VOLTAGE POWER IS NOT REQUIRED.
- PROVIDE PLUG LOAD CONTROL IN EACH PRIVATE OFFICE, OPEN OFFICE AREA, RECEPTION LOBBY, CONFERENCE ROOM, OCCUPANCY SENSOR, AT LEAST (1) CONTROLLED RECEPTACLE SHALL BE INSTALLED WITHIN 6'-0" OF EACH UNCONTROLLED RECEPTACLE. USE HALF CONTROLLED RECEPTACLE TYPES.
- ROUTE BRANCH CIRCUIT WIRING OF DEDICATED CONTROLLED CIRCUIT VIA POWER PACK CONTROLLED BY LOCAL ROOM OCCUPANCY SENSOR. MAKE ALL LINE VOLTAGE CONNECTIONS TO PLUG LOAD ROOM CONTROLLER.

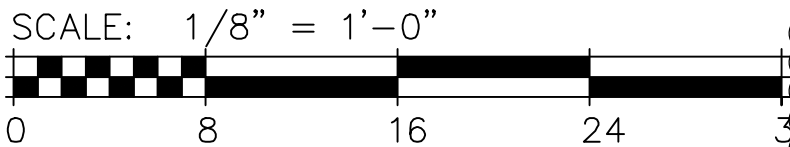
POWER AND SIGNAL PLAN REFERENCE NOTES:

- PROVIDE AND INSTALL A MARKED 1/2 CONTROLLED DUPLEX (OR QUAD, PER ELECTRICAL SYMBOL) RECEPTACLE. USE PLUG LOAD CONTROLLER TO BE ACQUITY #NPP20PLR OR WATTSTOPPER #LMPL-101 OR APPROVED EQUAL CONNECTED TO THE LOCAL LIGHTING CIRCUIT'S OCCUPANCY SENSOR TO CONTROL PLUG LOAD. RECEPTACLE IS MARKED BY SUBSCRIPT 'C'.
- PROVIDE AND INSTALL A 3/4" HOME-RUN, CONTAINING 2#12 THHN CU AND 1#12 GROUND, FROM THE TRAFFIC SIGNAL PRE-EMPTION CONTROL STATION LOCATIONS TO THE MAIN TELECOM ROOM (MTR), NOTING THAT THE BUTTON STATION AND CONTROL WIRING TERMINATIONS WILL BE HANDLED BY FIRE OR OTHERS. PRIOR TO ROUGH-IN, THE CONTRACTOR SHALL COORDINATE WITH THE OWNER'S REP TO CONFIRM THE FINAL LOCATIONS AND QUANTITIES. VERIFY THE SPECIFICATION OF CONDUCTORS, DETERMINE THE TERMINATION LOCATION WITHIN THE MTR, AND CONFIRM WHETHER SERIES OR PARALLEL WIRING IS REQUIRED AND WHETHER THE CONDUCTORS ARE LINE VOLTAGE OR LOW VOLTAGE, ALL WHILE REFERENCING THE SYSTEM WIRING DIAGRAMS PROVIDED BY FIRE.

NO ELECTRICAL FEEDER CONDUITS SHALL RUN WITHIN 6' OF THE LIVING SPACES OF DORMITORIES AND THE DAY ROOM IN ORDER TO MINIMIZE EMF.

NO ELECTRICAL BRANCH CIRCUIT CONDUITS GREATER THAN 3/4" IN DIAMETER SHALL RUN WITHIN 6' OF THE LIVING SPACES OF DORMITORIES AND THE DAY ROOM IN ORDER TO MINIMIZE EMF.

MAIN BUILDING POWER & SIGNAL FLOOR PLAN  
SCALE: 1/8"=1'-0"



TWO 4' X 10' LOOP DETECTORS: THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE OWNER'S REPRESENTATIVE AND ARCHITECT TO DETERMINE IF EXIT LOOP SIGNAL SYSTEMS ARE REQUIRED FOR THE AUTOMATIC CLOSING OF APPARATUS BAY DOORS. REFER TO VENDOR-PROVIDED SHOP DRAWINGS FOR FINAL SCOPE. THE LOOP DETECTOR UNIT WILL BE SUPPLIED BY THE VENDOR, AND THE LOOP WIRE WILL BE PROVIDED BY THE GENERAL CONTRACTOR. THE EC IS RESPONSIBLE FOR THE INSTALLATION OF A 3/4" CONDUIT RACEWAY WITH A PULL STRING. CONFIRM EXACT START AND END POINTS WITH ALL PARTIES PRIOR TO ROUGH-IN.

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MAIN BUILDING POWER & SIGNAL  
FLOOR PLAN

FIRE STATION 46  
COUNTY OF LOS ANGELES FIRE DEPARTMENT  
26720 BOMBERO LANE  
VALENCIA, CALIFORNIA

Issue

SCE REVIEW	03-21-25
DESIGN DEVELOPMENT REVIEW	04-29-25
ISSUED FOR PLAN CHECK	07-31-25
PLAN CHECK CORRECTIONS	11-10-25
DELTA 1 FOR PLAN CHECK	03-31-26

CONSULTING ELECTRICAL ENGINEERS  
1238 7th Street, Santa Monica, CA 90401  
Tel: (424) 272-6709

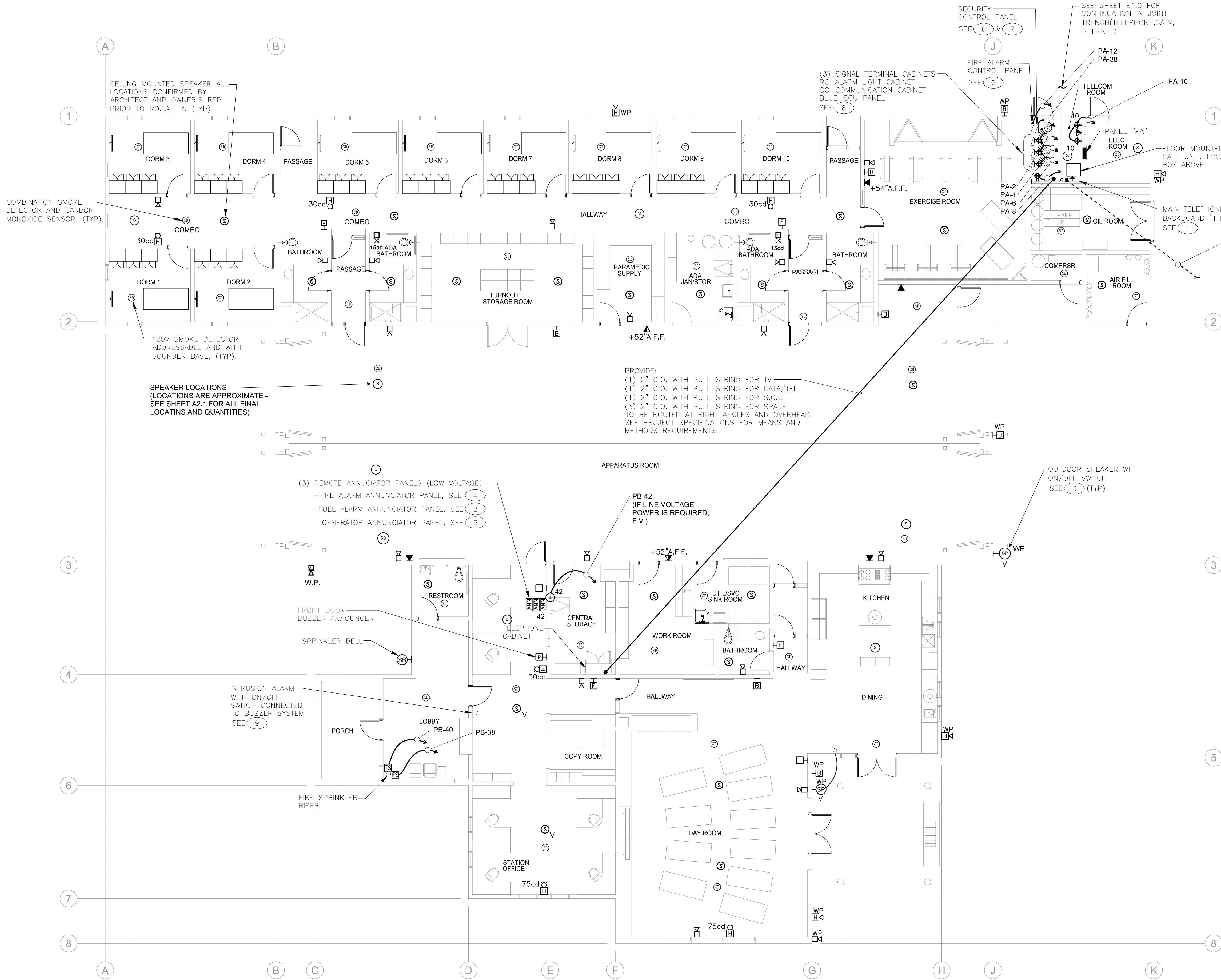
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ADDENDUM# 3 - BID SET - APRIL 30, 2026

90232



**BUILDING AND SAFETY DIVISION**  
Department of Public Works  
**FINAL ENERGY APPROVED**  
UNDER CCR TITLE 24, PART 1,  
ARTICLE 1 & PART 6  
**AMARKARI**  
PUBLIC WORKS  
04/21/2026 3:08:19 PM

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**BUILDING AND SAFETY DIVISION**  
Department of Public Works  
**APPROVED**  
UNDER LOS ANGELES COUNTY CODE  
TITLE 27  
**AMARKARI**  
PUBLIC WORKS  
04/21/2026 3:08:19 PM

This set of plans and specifications must be used at the job site at all times. It is unlawful to make any changes, modifications or alterations to these plans or specifications without the prior written permission of the Building Official. The stamping of this set of plans and specifications SHALL NOT, under any circumstances, be deemed to permit or to be an approval of any work or activity that violates any provisions of any County Ordinance or State Law.

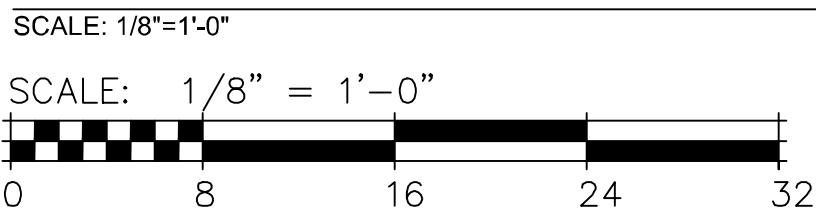
SIGNAL REFERENCE NOTES:

- 1 NEW TELEPHONE TERMINAL BACKBOARD "TTB". PROVIDE AND INSTALL AN 8' BY 8' BY 3/4" THICK FIRE TREATED PLYWOOD BACKBOARD WITH 1/4" C AND 1#6 CU GROUND AND GROUND ROD PER UTILITY COMPANY REQUIREMENTS. BOND THE GROUND ROD TO THE BUILDING SERVICE GROUND AT THE MAIN SERVICE FOR THE BUILDING.
- 2 ADDRESSABLE FIRE ALARM SYSTEM (DESIGN-BUILD): THE FIRE ALARM SYSTEM WILL BE PROVIDED UNDER A DESIGN-BUILD DELIVERY METHOD. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL LINE VOLTAGE BRANCH CIRCUITS TO THE FIRE ALARM SYSTEM AND MAKE ALL LINE VOLTAGE CONNECTIONS AS DIRECTED BY THE FIRE ALARM SYSTEM VENDOR. REFER TO APPROVED SHOP DRAWINGS PRIOR TO ROUGH-IN AND BIDDING. THE LOCATIONS OF SMOKE DETECTORS AND OTHER FIRE ALARM DEVICES SHOWN ON THE DRAWINGS ARE FOR REFERENCE AND TO INDICATE THE DESIGN INTENT. SMOKE DETECTORS SHALL BE INSTALLED IN EACH SLEEPING ROOM, CORRIDOR, AND TELECOM ROOM, AS GENERALLY SHOWN ON THE FLOOR PLANS. THE COMPLETE SYSTEM SHALL INCLUDE A REMOTE ANNUNCIATOR PANEL, MANUAL PULL STATIONS, AND TAMPER SWITCHES.
- 3 EXTERIOR SPEAKER TO BE FURNISHED WITH A LOCAL "ON/OFF" SWITCH.
- 4 MAKE ALL LINE VOLTAGE CONNECTIONS TO VENDOR FURNISHED FUEL LEVEL ANNUNCIATOR PANEL. PROVIDE AND INSTALL ALL LOW VOLTAGE CONDUIT ONLY WITH PULL STRING AS DIRECTED BY FUEL TANK VENDOR TO THE MAIN FUEL PANEL. CONFIRM REQUIREMENTS WITH SYSTEM INSTALLER PRIOR TO ROUGH-IN. CONFIRM FINAL LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
- 5 MAKE ALL LINE VOLTAGE CONNECTIONS TO VENDOR FURNISHED GENERATOR STATUS ANNUNCIATOR PANEL. PROVIDE AND INSTALL A 1" C.O. WITH PULL STRING TO GENERATOR SET CONTROL PANEL LOCATED INSIDE THE GENERATOR ROOM. CONFIRM REQUIREMENTS WITH SYSTEM INSTALLER PRIOR TO ROUGH-IN. CONFIRM FINAL LOCATION OF THE ANNUNCIATOR PANEL WITH ARCHITECT PRIOR TO ROUGH-IN.
- 6 MAIN ENTRANCE SECURITY CONTROL PANEL 120V-1PH. MAKE ALL LINE VOLTAGE CONNECTIONS TO CONTROL PANEL. SYSTEM TO BE "DESIGN BUILT" AND INCLUDE ALL FIRE STATION REQUIREMENTS.
- 7 THE ELECTRICAL CONTRACTOR SHALL REVIEW A COPY OF THE APPROVED SHOP DRAWINGS PRODUCED BY THE SECURITY SYSTEMS VENDOR. PROVIDE AND INSTALL ALL LINE VOLTAGE CONDUIT AND WIRE SHOWN ON THE WIRING DIAGRAMS. PROVIDE ALL CONDUIT ONLY AND BACK BOXES AS SHOWN ON THE WIRING DIAGRAMS AND SHOP FLOOR PLANS. VENDOR TO FURNISH AND INSTALL DEVICES AND MAKE ALL LOW VOLTAGE CONNECTIONS.
- 8 THE ELECTRICAL CONTRACTOR SHALL REVIEW A COPY OF THE APPROVED SHOP DRAWINGS PRODUCED BY THE A/V SYSTEMS VENDOR AND/OR LA COUNTY FIRE DEPARTMENT. PROVIDE AND INSTALL ALL LINE VOLTAGE CONDUIT AND WIRE SHOWN ON THE WIRING DIAGRAMS. PROVIDE ALL CONDUIT ONLY AND BACK BOXES AS SHOWN ON THE WIRING DIAGRAMS AND FLOOR PLANS. VENDOR TO FURNISH AND INSTALL DEVICES AND MAKE ALL LOW VOLTAGE CONNECTIONS.
- 9 ENTRY DOOR CONTROLLER AND POWER SUPPLY 120V-1PH, 50W. MAKE ALL LINE VOLTAGE CONNECTIONS TO DOOR AND KEYPAD HARDWARE CONTROL PANEL AND POWER SUPPLIES FOR THE BUILDING ENTRY SYSTEM. CONFIRM LOCATIONS AND VOLTAGE WITH GENERAL CONTRACTOR PRIOR TO ROUGH-IN. SYSTEM TO BE "DESIGN BUILT" AND INCLUDE ALL FIRE STATION REQUIREMENTS.

FIRE ALARM CHARACTERISTICS TO BE DESIGNED AND INSTALLED BY SUB-CONTRACTOR AND VENDOR

- MAIN BUILDING:**
- FULLY SPRINKLERED.
  - DEDICATED STAND PIPE.
  - INTEGRATED ADDRESSABLE FIRE ALARM SYSTEM
  - REMOTE ANNUNCIATOR PANEL FOR THE RESERVE APPARATUS BUILDING.
- RESERVE APPARATUS BUILDING:**
- FULLY SPRINKLERED.
  - DEDICATED STAND PIPE.
  - INTEGRATED ADDRESSABLE FIRE ALARM SYSTEM
- GENERATOR ROOM BUILDING:**
- NON-SPRINKLERED.
  - NO FIRE ALARM SYSTEM DEVICES .
- HOSE ROOM:**
- NON-SPRINKLERED.
  - NO FIRE ALARM SYSTEM DEVICES .

SIGNAL SYSTEM FLOOR PLAN SCHEMATIC



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SIGNAL SYSTEM FLOOR PLAN SCHEMATIC

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COUNTY OF LOS ANGELES FIRE DEPARTMENT  
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VALENCIA, CALIFORNIA

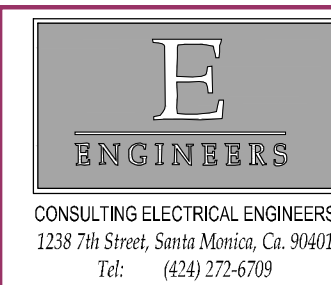
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Issue	
SCENE REVIEW	03-21-25
DESIGN DEVELOPMENT REVIEW	04-07-25
ISSUED FOR PLAN CHECK	07-31-25
PLAN CHECK CORRECTIONS	10-17-25

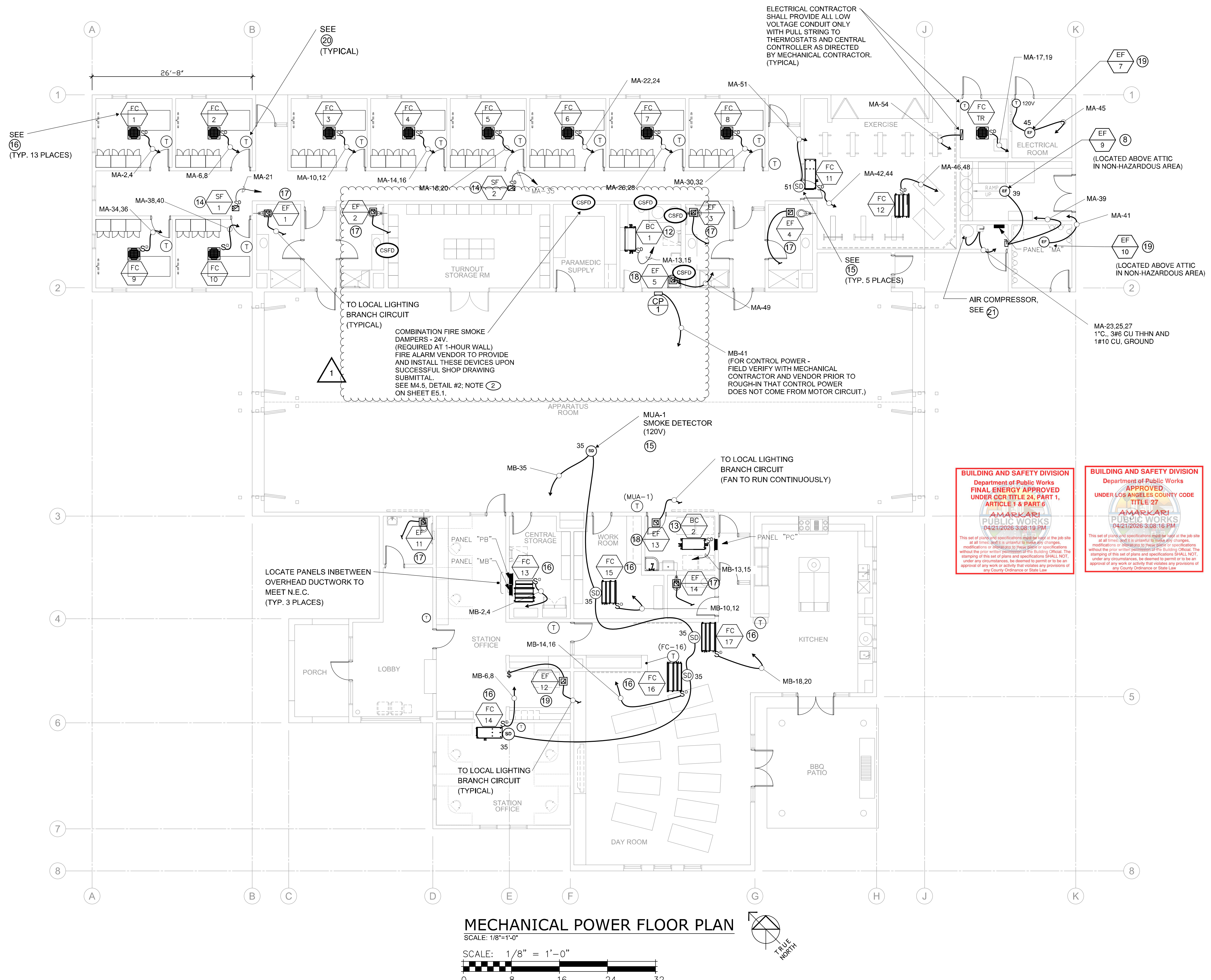


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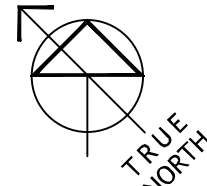
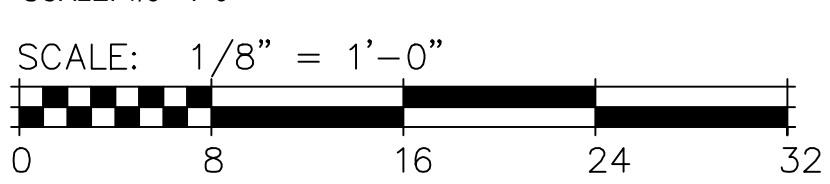
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Job. No.	25-1-16



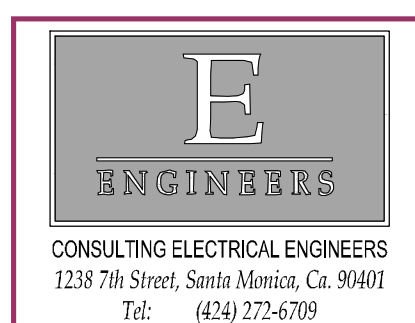
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MECHANICAL POWER FLOOR PLAN  
SCALE: 1/8"=1'-0"



SEE SHEET E5.3 FOR ALL  
REFERENCE NOTES



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**MECHANICAL POWER PLAN**

**FIRE STATION 46**  
COUNTY OF LOS ANGELES FIRE DEPARTMENT  
26720 BOMBERO LANE  
VALENCIA, CALIFORNIA

Issue	
SCE REVIEW	03-21-25
DESIGN DEVELOPMENT REVIEW	06-10-25
ISSUED FOR PLAN CHECK	08-13-25
DELTA 1 FOR PLAN CHECK	03-31-26

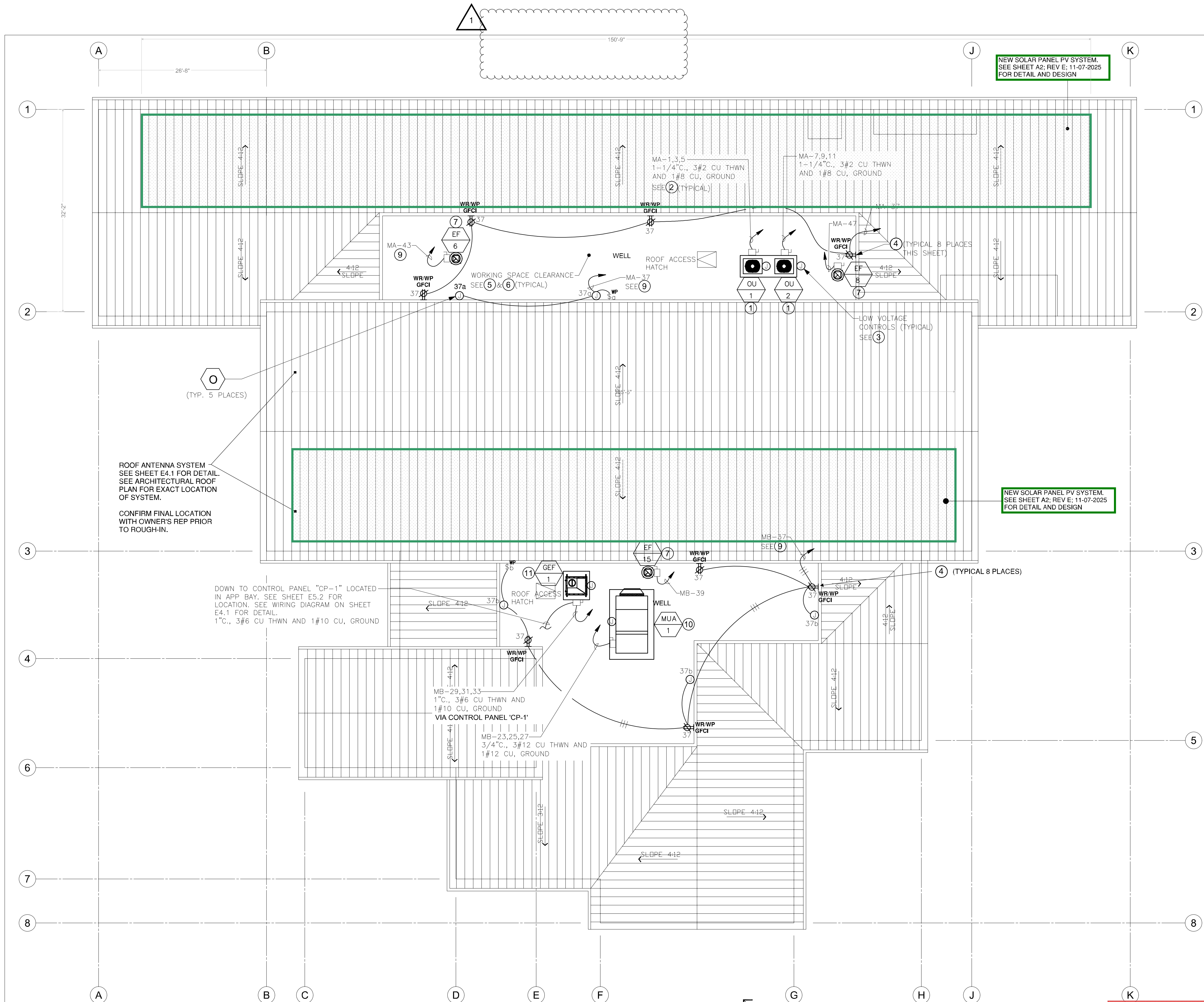


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Date	03-21-25
Drawn	I.J.
Checked	E.F.
Scale	AS NOTED
Job. No.	25-105

**E5.2**

ADDENDUM#3 - BID SET - APRIL 30, 2026



ROOF PLAN REFERENCE NOTES:

- OUTDOOR 10 TON PACKAGE AIR CONDITIONING UNIT, 208V-3PH AND 56 MCA. PROVIDE AND INSTALL A LOCKABLE, WEATHERPROOF 100AS/90AF/3P HP RATED FUSIBLE DISCONNECT SWITCH AND MAKE CONNECTION TO UNIT. CONFIRM FINAL UNIT LOCATION AND SPECIFICATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- ROUTE ALL CONDUITS TO ROOF-TOP MECHANICAL UNITS WITHIN ROOF TOP UNITS FOOTPRINT AND HORIZONTALLY THROUGH ATTIC SPACE.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL LINE VOLTAGE BRANCH CIRCUIT WIRING AND ALL LOW VOLTAGE CONDUIT ONLY WITH PULL STRING FOR CONTROL OF MECHANICAL SYSTEMS AS DIRECTED BY MECHANICAL CONTRACTOR. USE WEATHERPROOF JUNCTION BOX(ES) IN OUTDOOR AREAS. SEE WIRING DIAGRAMS ON MECHANICAL DRAWINGS. PROVIDE ALL TIME CLOCKS, SMOKE DETECTORS, RELAYS, ETC. AS INDICATED AS "PROVIDED BY ELECTRICAL" ON MECHANICAL DRAWINGS AND DETAILS.
- PROVIDE AND INSTALL A RECEPTACLE AND ENCLOSURE THAT IS WEATHER RESISTANT TYPE IN A WEATHERPROOF OUTLET BOX AND IS LISTED AND EQUIPPED WITH AN "EXTRA DUTY" RATED COVER. THE RECEPTACLE SHALL BE LISTED AS WEATHER RESISTANT TYPE WITH INTEGRAL GFCI PROTECTION. LOCATION SHALL BE WITHIN 25' OF ALL MECHANICAL SYSTEMS ON THE ROOF OR GROUND FLOOR EXTERIOR AREAS.
- MAINTAIN MINIMUM CODE REQUIRED WORKING SPACE CLEARANCE OF 3'-0" ABOUT ELECTRICAL EQUIPMENT. PER NEC ARTICLE 110.26. IN ADDITION, ALL DISCONNECT SWITCHES AND CIRCUIT BREAKER HANDLES SHALL BE INSTALLED SO THAT THE CENTER OF THE GRIP OF THE OPERATING HANDLE WHEN IN THE HIGHEST POSITION IS NOT MORE THAN 6'-7" A.F.F.
- MAINTAIN MINIMUM CODE REQUIRED WORKING WIDTH CLEARANCE OF 30" ABOUT ELECTRICAL EQUIPMENT. PER NEC ARTICLE 110.26. THE WORK SPACE SHALL PERMIT AT LEAST A 90-DEGREE OPENING OF EQUIPMENT DOORS OR HINGED PANELS.
- EXHAUST FAN, 120V-1PH-1/6 HP. PROVIDE AND INSTALL A WEATHERPROOF LOCKABLE HEAVY DUTY SWITCH WITH 6.25A DUAL ELEMENT TIME DELAY FUSES AND MAKE ALL LINE VOLTAGE CONNECTIONS TO UNIT AND CONTROL DEVICES. CONFIRM FINAL UNIT LOCATION; SPECIFICATION; AND FAN MOTOR BEING EQUIPPED WITH RESETTABLE INTEGRAL OVERLOAD PROTECTION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. SEE MECHANICAL WIRING DIAGRAM FOR CONTROL REQUIREMENTS. PROVIDE ALL TIME CLOCKS, SWITCHES, RELAYS, LINE VOLTAGE THERMOSTATS, HUMIDISTATS, ETC. AS INDICATED AS "PROVIDED BY ELECTRICAL" ON MECHANICAL DRAWINGS AND DETAILS.
- EXHAUST FAN, 120V-1PH-1/4 HP. PROVIDE AND INSTALL A WEATHERPROOF LOCKABLE HEAVY DUTY SWITCH WITH 9A DUAL ELEMENT TIME DELAY FUSES AND MAKE ALL LINE VOLTAGE CONNECTIONS TO UNIT AND CONTROL DEVICES. CONFIRM FINAL UNIT LOCATION; SPECIFICATION; AND FAN MOTOR BEING EQUIPPED WITH RESETTABLE INTEGRAL OVERLOAD PROTECTION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. SEE MECHANICAL WIRING DIAGRAM FOR CONTROL REQUIREMENTS. PROVIDE ALL TIME CLOCKS, SWITCHES, RELAYS, LINE VOLTAGE THERMOSTATS, HUMIDISTATS, ETC. AS INDICATED AS "PROVIDED BY ELECTRICAL" ON MECHANICAL DRAWINGS AND DETAILS.
- BRANCH CIRCUIT ROUTED VIA TIME CLOCK FOR TIME CLOCK PROGRAMMABLE CONTROL.
- MAKE UP AIR UNIT, 208V-3PH-3HP. PROVIDE AND INSTALL A WEATHERPROOF LOCKABLE 30AS/17.5AF/3P FUSIBLE HEAVY DUTY DISCONNECT SWITCH AND MAKE CONNECTION TO UNIT. CONFIRM FINAL UNIT LOCATION AND SPECIFICATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. SEE MECHANICAL WIRING DIAGRAMS AND DETAILS FOR ALL REQUIREMENTS.
- GARAGE EXHAUST FAN, 208V-3PH-7.5HP. PROVIDE AND INSTALL A WEATHERPROOF LOCKABLE 60AS/40AF/3P FUSIBLE HEAVY DUTY DISCONNECT SWITCH AND MAKE CONNECTION TO UNIT. CONFIRM FINAL UNIT LOCATION AND SPECIFICATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. SEE MECHANICAL WIRING DIAGRAM FOR SCHEMATIC DETAIL.
- BRANCH CONTROLLER BOX, 208V-1PH 1.6 MCA. PROVIDE AND INSTALL A 'HACR' RATED BRANCH CIRCUIT BREAKER AND A LOCAL DISCONNECT SWITCH AND MAKE LINE VOLTAGE CONNECTION TO UNIT. CONFIRM FINAL UNIT LOCATION AND SPECIFICATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- BRANCH CONTROLLER BOX, 208V-1PH 0.7 MCA. PROVIDE AND INSTALL A 'HACR' RATED BRANCH CIRCUIT BREAKER AND A LOCAL DISCONNECT SWITCH AND MAKE LINE VOLTAGE CONNECTION TO UNIT. CONFIRM FINAL UNIT LOCATION AND SPECIFICATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- SUPPLY FAN 120V-1PH, 21W. MAKE ALL LINE VOLTAGES CONNECTIONS TO UNIT USING A QUICK DISCONNECT OR A READILY ACCESSIBLE SWITCH FOR MAINTENANCE AND TROUBLESHOOTING PURPOSES AS DIRECTED BY MECHANICAL CONTRACTOR. CONFIRM FINAL UNIT LOCATION AND SPECIFICATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. CONFIRM SWITCH LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN. FAN TO RUN CONTINUOUSLY.
- MAKE ALL LINE VOLTAGE CONNECTIONS TO 120V-1PH SMOKE DETECTORS AND COMBINATION FIRE/SMOKE DAMPERS REQUIRED FOR MECHANICAL SYSTEMS. CONFIRM LOCATIONS AND VOLTAGE WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- INDOOR FAN COIL UNIT, 208V-1PH (< 900W). SEE PANEL SCHEDULE AND MECHANICAL SCHEDULE FOR MCA VALUES. PROVIDE AND INSTALL A 'HACR' RATED BRANCH CIRCUIT BREAKER AND A LOCAL DISCONNECT SWITCH AND MAKE LINE VOLTAGE CONNECTION TO UNIT. CONFIRM FINAL UNIT LOCATION AND SPECIFICATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- EXHAUST FAN, 120V-1PH- FRACTIONAL HP (<10W). MAKE ALL LINE VOLTAGE CONNECTIONS TO UNIT'S QUICK DISCONNECT CONNECTOR USING THE LOCAL LIGHTING BRANCH CIRCUIT. UNIT IS EQUIPPED WITH INTEGRAL CONTROLS. CONFIRM FINAL UNIT LOCATION AND SPECIFICATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. SEE MECHANICAL WIRING DIAGRAM FOR CONTROL REQUIREMENTS.
- EXHAUST FAN, 120V-1PH- FRACTIONAL HP. MAKE ALL LINE VOLTAGE CONNECTIONS TO UNIT'S QUICK DISCONNECT CONNECTOR. UNIT TO RUN CONTINUOUSLY. CONFIRM FINAL UNIT LOCATION AND SPECIFICATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. SEE MECHANICAL WIRING DIAGRAM FOR CONTROL REQUIREMENTS.
- EXHAUST FAN, 120V-1PH- FRACTIONAL HP. MAKE ALL LINE VOLTAGE CONNECTIONS TO UNIT'S QUICK DISCONNECT CONNECTOR. CONFIRM FINAL UNIT LOCATION AND SPECIFICATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN. SEE MECHANICAL WIRING DIAGRAM FOR CONTROL REQUIREMENTS.
- THERMOSTAT. PROVIDE AND INSTALL A 1/2" C.O WITH PULL STRING UP TO ACCESSIBLE CEILING SPACE FOR LOW VOLTAGE DATA CABLING BY OTHERS. CONFIRM LOCATION OF THERMOSTAT WITH MECHANICAL CONTRACTOR AND ARCHITECT PRIOR TO ROUGH-IN.
- AIR COMPRESSOR, 208V-3PH, 7.5 HP. PROVIDE AND INSTALL A HP RATED FUSIBLE DISCONNECT SWITCH 60AS/40AF/3P WITH DUAL ELEMENT FUSES. MAKE ALL LINE VOLTAGE CONNECTIONS. CONFIRM FINAL SPECIFICATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.

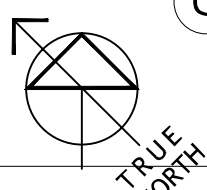
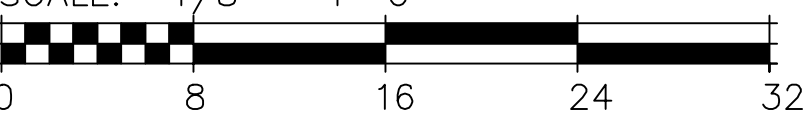
NO ELECTRICAL FEEDER CONDUITS SHALL RUN WITHIN 6' OF THE LIVING SPACES OF DORMITORIES AND THE DAY ROOM IN ORDER TO MINIMIZE EMF.

NO ELECTRICAL BRANCH CIRCUIT CONDUITS GREATER THAN 3/4" IN DIAMETER SHALL RUN WITHIN 6' OF THE LIVING SPACES OF DORMITORIES AND THE DAY ROOM IN ORDER TO MINIMIZE EMF.

ROOF PLAN

SCALE: 1/8"=1'-0"

SCALE: 1/8" = 1'-0"



BUILDING AND SAFETY DIVISION  
Department of Public Works  
FINAL ENERGY APPROVED  
UNDER CCR TITLE 24, PART 1,  
ARTICLE 1 & PART 6  
AMARKARI  
04/21/2026 3:08:16 PM

This set of plans and specifications shall be held in full faith and honor as an all-time, and it is intended to remain in full force and effect, without the prior written permission of the Building Official. The signing of this set of plans and specifications shall, under any circumstances, be deemed to permit or to be an approval of any work or activity that violates any provisions of any County Ordinance or State Law.

BUILDING AND SAFETY DIVISION  
Department of Public Works  
APPROVED  
UNDER LOS ANGELES COUNTY CODE  
TITLE 27  
AMARKARI  
04/21/2026 3:08:16 PM

This set of plans and specifications shall be held in full faith and honor as an all-time, and it is intended to remain in full force and effect, without the prior written permission of the Building Official. The signing of this set of plans and specifications shall, under any circumstances, be deemed to permit or to be an approval of any work or activity that violates any provisions of any County Ordinance or State Law.

**E**  
ENGINEERS  
CONSULTING ELECTRICAL ENGINEERS  
1238 7th Street, Santa Monica, Ca. 90401  
Tel: (424) 272-6709

WILLIAM LOYD JONES  
ARCHITECT

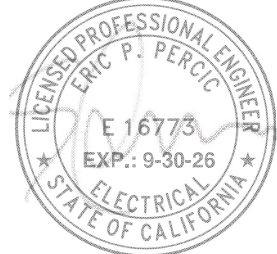
9415 culver boulevard  
culver city, california  
9 0 2 3 2

TEL 310 392 3995

ROOF PLAN

FIRE STATION 46  
COUNTY OF LOS ANGELES FIRE DEPARTMENT  
26720 BOMBERO LANE  
VALENCIA, CALIFORNIA

Issue		
SCE REVIEW	03-21-25	
DESIGN DEVELOPMENT REVIEW	06-10-25	
ISSUE FOR PLAN CHECK	08-12-25	
PLAN CHECK CORRECTIONS	11-10-25	
DELTA 1 FOR PLAN CHECK	03-31-26	

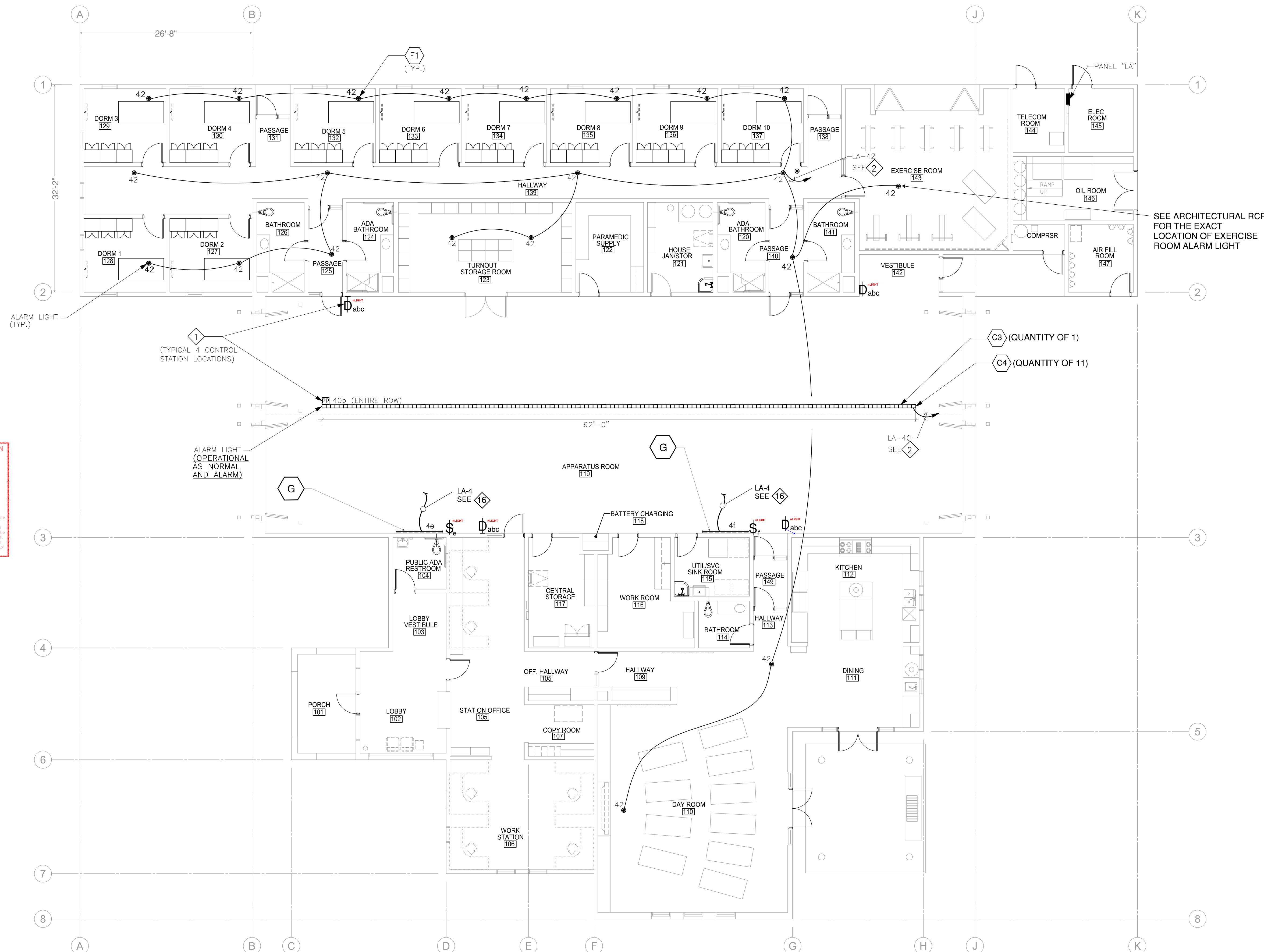


THE ABOVE DRAWINGS AND SPECIFICATIONS AND DESIGN AND ARRANGEMENTS REPRESENTED THEREIN ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT AND TO WHOMsoever SHALL BE ASSIGNED. NO PART OF THESE DRAWINGS OR SPECIFICATIONS SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES. THE ARCHITECT SHALL BE NOTIFIED OF ANY VIOLATIONS OF THE CONDITIONS AND CONDITIONS OF THESE DRAWINGS. ANY VIOLATIONS SHALL BE REPORTED TO THE OFFICE FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION.

Date	03-21-25
Drawn	I.J.
Checked	E.F.
Scale	AS NOTED
Job. No.	25-1-15

E5.3

ADDENDUM# 3 - BID SET - APRIL 30, 2026



**BUILDING AND SAFETY DIVISION**  
Department of Public Works  
**FINAL ENERGY APPROVED**  
**UNDER CCR TITLE 24, PART 1,**  
**ARTICLE 1 & PART 6**  
**AMARKARI**  
**04/21/2025 3:08:19 PM**

This set of plans and specifications must be kept in your job file at all times, and it is unlawful to make any changes, modifications or alterations to these plans or specifications without the prior written consent of the Building Division. The stamping of this set of plans and specifications SHALL NOT, under any circumstances, be deemed to permit or be an approval of any work or activity that violates any provisions of any County Ordinances or State Laws.

### ALARM LIGHT SEQUENCE OF OPERATIONS:

In the event of an alarm, all lighting fixtures indicated on the lighting alarm floor plan (E5.4) will automatically illuminate to full brightness. This activation can occur through the Los Angeles County Fire Department (LACFD) communication system or manually via a local On/Off switch located in the Station Office, or the alarm lighting relay panel in the Main Telecom Room.

Regardless of their current multi-way switch or dimming settings, the center row of linear lights in the Apparatus Bay and all map lights in the Apparatus Bay will also automatically activate.

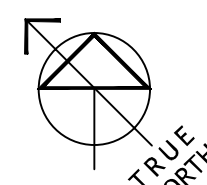
**Important Note:** Confirm with LACFD whether the Station Office switch should be low voltage or line voltage. Confirm its location with the Architect prior to rough-in. All necessary devices, wiring, and raceways must be provided as directed by the system installer.

TYPICAL CEILING HEIGHTS	
CEILING TILE:	10'-0"
GYPSUM WALLBOARD:	9'-0"
GYPSUM WALLBOARD SOFFIT:	8'-0" (SHADED)

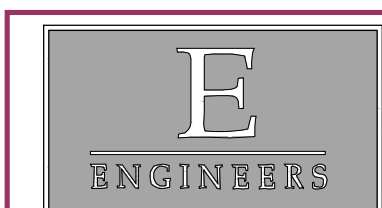
## ALARM LIGHTING PLAN

SCALE: 1/8"=1'-0"

SCALE: 1/8" = 1'-0"



SEE SHEET E5.5 FOR ALL  
##  
REFERENCE NOTES



CONSULTING ELECTRICAL ENGINEERS  
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Tel: (424) 272-6709

WILLIAM LOYD JONES  
ARCHITECT

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9 0 2 3 2

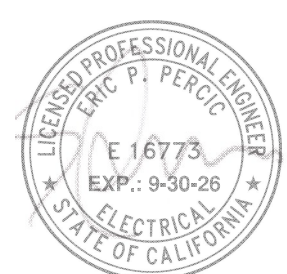
TEL 310 392 3995

## ALARM LIGHTING PLAN

**FIRE STATION 46**  
COUNTY OF LOS ANGELES FIRE DEPARTMENT  
26720 BOMBERO LANE  
VALENCIA, CALIFORNIA

FIVEPOINT.

Issue	
SCE REVIEW	03-21-25
DESIGN DEVELOPMENT REVIEW	06-10-25
ISSUED FOR PLAN CHECK	07-31-25
PLAN CHECK CORRECTIONS	10-14-25



THE ABOVE DRAWINGS AND SPECIFICATIONS AND IDEAS, DESIGNS AND ARRANGEMENTS REPRESENTED THEREBY ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT, AND NO PART THEREOF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THE ABOVE REPRESENTATIONS AND DEVELOPMENTS WERE WRITTEN. VIOLATION OF THIS PROHIBITION IN CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.

WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR THE ACCURACY OF ALL DIMENSIONS. CONTRACTORS SHALL BE NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS. SUCH DETAILS MUST BE SUBMITTED TO THIS OFFICE FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION.

Date	03-21-25
Drawn	I.Z.
Checked	E.P.
Scale	AS NOTED
Job. No.	25-15

## E5.4

**LIGHTING CONTROLS CHARACTERISTICS:**

1) THE LIGHTING CONTROL SYSTEM IS A WIRED SYSTEM.

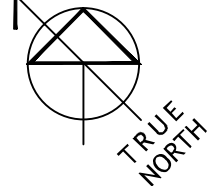
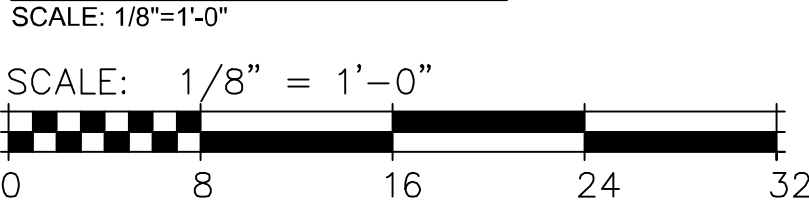
2) THE LIGHTING CONTROL SYSTEM IS PART RESIDENTIAL AND PART NON-RESIDENTIAL.

3) IN THE NON-RESIDENTIAL AREAS, AUTO-SHUT OFF CONTROLS ARE ACCOMPLISHED VIA THE USE OF CEILING MOUNTED ROOM OCCUPANCY SENSORS; INTEGRAL OCCUPANCY SENSORS THAT ARE PART OF THE LUMINAIRES; AND WALL MOUNTED DUAL TECHNOLOGY SENSORS INTEGRATED WITH THE LIGHTING CONTROL WALL STATION.

4) THE SYSTEM VENDOR SHALL BE SENSOR SWITCH AND NUGHT; BOTH ARE REPRESENTED BY PERFORMANCE LIGHTING.

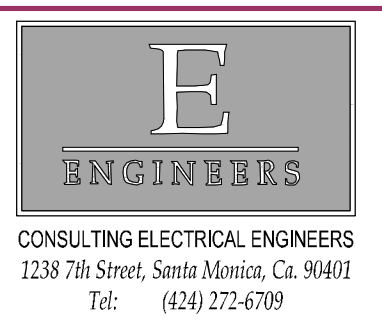
TYPICAL CEILING HEIGHTS	
CEILING TILE:	10'-0"
GYPSUM WALLBOARD:	9'-0"
GYPSUM WALLBOARD SOFFIT:	8'-0" (SHADED)

**LIGHTING PLAN**



**LIGHTING CONTROL STATION LEGEND**

- 4 LINE OR LOW VOLTAGE WALL STATION (EXP = EXPLOSION PROOF)
- 9 LOW VOLTAGE WALL STATION USING 0-10V SIGNAL (SENSOR IN FIXTURE, IF APPLICABLE)
- 7 LINE OR LOW VOLTAGE WALL STATION WITH INTEGRAL SENSOR
- 8 LOW VOLTAGE WALL STATION USING 0-10V SIGNAL WITH INTEGRAL SENSOR
- 3 LINE VOLTAGE DIMMER STATION - SEE SCHEDULE FOR PART NUMBER (NO SENSOR)
- 13 LOW VOLTAGE DIMMER STATION AND CEILING OCCUPANCY SENSOR



**E5.5**

**LIGHTING PLAN REFERENCE NOTES:**

- PROVIDE AND INSTALL AN LIGHT #NIO-1S-KO (OR PRE-APPROVED EQUIVALENT) RELAY PACK AND LOW-VOLTAGE MOMENTARY WALL DIMMER SWITCHES TO CONTROL THE CENTER ROW OF LIGHTS IN THE APPARATUS BAY. CONTROL MODULE TO RECEIVE DRY CONTACT INPUT FROM FIRE CONTROL SYSTEM TO AUTOMATICALLY FORCE CENTER ROW OF LIGHTS TO FULL ON/BRIGHTNESS WHEN AN "ALARM STATE" IS TRIGGERED. UPON LOSS OF CONTACT CLOSURE FROM THE ALARM, THE LIGHTS SHOULD RETURN TO THEIR PREVIOUS STATE (ON OR OFF, AND AT THEIR PREVIOUS DIMMING LEVEL). THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING WITH THE LA COUNTY FIRE DEPARTMENT THAT THE SELECTED DEVICE IS COMPATIBLE WITH THEIR PROPRIETARY COMMUNICATIONS SYSTEM.
- BRANCH CIRCUIT TO BE ROUTED VIA FIRE SYSTEM CONTROL AND COMMUNICATION PANELS IN THE TELECOM ROOM FOR AUTOMATIC CONTROL OF LUMINAIRES.
- PROVIDE A NON-SWITCHED HOT LEG OF LOCAL LIGHTING BRANCH CIRCUIT TO ALL EGRESS LIGHTING UNIT EQUIPMENT AND EXIT SIGNS FOR BATTERY CHARGE OPERATION.
- WALL SWITCH: PROVIDE AND INSTALL A WALL SWITCH WITH STAINLESS STEEL COVER PLATE. THE DEVICE SHALL BE COMPATIBLE WITH THE INTEGRAL OCCUPANCY CONTROL DEVICE INSIDE THE LUMINAIRE IF INDICATED ON THE SCHEDULE. SEE FLOOR PLANS FOR ALL LOCATIONS. PROVIDE MULTI-WAY CONFIGURATION USING AN LIGHT SYSTEM IN THE RESIDENTIAL HALLWAY. PROVIDE AN EXPLOSION PROOF SWITCH IN ALL HAZARDOUS AREAS.
- CEILING FAN: 120V-1PH, 250W. PROVIDE AND INSTALL A VENDOR FURNISHED CONTROL STATION AS INDICATED IN THE MANUFACTURER INSTALLATION GUIDE. MAKE ALL LINE VOLTAGE AND LOW VOLTAGE CONNECTION. CONFIRM FINAL SPECIFICATION WITH ARCHITECT PRIOR TO ROUGH-IN.
- ALL CONDUIT AND ELECTRICAL DEVICES SERVING THE OXYGEN CASCADE AND OIL ROOMS ARE CONSIDERED TO BE HAZARDOUS. SEE NOTES ON POWER PLAN FOR CONDUIT REQUIREMENTS.
- WALL SWITCH WITH OCCUPANCY SENSOR: PROVIDE AND INSTALL A DUAL TECHNOLOGY WALL SWITCH AND SENSOR WITH STAINLESS STEEL COVER PLATE. DEVICE SHALL BE COMPATIBLE WITH LUMINAIRE BEING CONTROLLED. TO BE SENSOR SWITCH OR PREAPPROVED EQUIVALENT. PROVIDE MULTI-WAY CONFIGURATION USING AN LIGHT SYSTEM, AS REQUIRED.
- WALL DIMMER SWITCH WITH OCCUPANCY SENSOR: PROVIDE AND INSTALL A DUAL TECHNOLOGY WALL SWITCH DIMMER AND SENSOR WITH STAINLESS STEEL COVER PLATE. DEVICE SHALL BE COMPATIBLE WITH LUMINAIRE BEING CONTROLLED. TO BE SENSOR SWITCH OR PREAPPROVED EQUIVALENT. PROVIDE MULTI-WAY CONFIGURATION USING AN LIGHT SYSTEM, AS REQUIRED.
- WALL DIMMER: PROVIDE AND INSTALL A WALL DIMMER WITH STAINLESS STEEL COVER PLATE. TO BE NIGHT SERIES OR PREAPPROVED EQUAL, WHERE INDICATED BY SUBSCRIPT "LIGHT". TO BE 0-10V DEVICE, WHERE INDICATED BY SUBSCRIPT "0-10V". PROVIDE MULTI-WAY CONFIGURATION USING AN LIGHT SYSTEM, AS REQUIRED. INCLUDE ALL RELAY PACKS AND POWER DEVICES AS SHOWN ON VENDOR GENERATED SHOP DRAWINGS.
- PROVIDE 8' STRIP LIGHT WITHOUT WIRE GUARDS FOR DISPLAY CASE LIGHTING. SEE ARCHITECTURAL DETAIL FOR MOUNTING AND WIRING METHOD. PROVIDE SWITCH AS SHOWN ON ARCHITECTURAL DETAIL. TO BE TYPE "C2" OR PREAPPROVED EQUAL.
- MASTER LIGHTING CONTROL PANEL WITH PHOTOCELL INPUT. CONTRACTOR SHALL LOCATE PHOTOCELL AS DIRECTED BY OWNER'S REP IN A LOCATION FOR PROPER OPERATION. INPUT SHALL BE USED FOR PROGRAMMING CONTROL OF EXTERIOR LIGHTING. PER RELAY PANEL SCHEDULE. SYSTEM SHALL BE TURN KEY. ENGINEER OF RECORD SHALL REVIEW SHOP DRAWINGS PRIOR TO ORDER. A SLAVE CONTROL PANEL IS LOCATED IN THE RESERVE APPARATUS GARAGE.
- BRANCH CIRCUIT TO BE ROUTED VIA LIGHTING CONTROL PANEL FOR AUTOMATIC CONTROL OF LUMINAIRES.
- PROVIDE AND INSTALL A DUAL TECHNOLOGY CEILING TYPE OCCUPANCY SENSOR WITH LOW VOLTAGE WALL BOX DIMMER(S) AND PODS WITH ADEQUATE COVERAGE OF ROOM. TO BE LIGHT #NMC-PDT-10 OR APPROVED EQUAL.
- ELECTRICAL CONTRACTOR SHALL VERIFY ALL TYPES, QUANTITIES AND COMPATIBILITY OF SENSOR PLACEMENT AND SPECIFICATION WITH MANUFACTURER PRIOR TO ORDERING LIGHTING CONTROL SYSTEM.
- LIGHTING CONTROL SYSTEM SHALL INCLUDE: 1) START-UP, 2) PROGRAMMING, 3) COMMISSIONING AND 4) END USER TRAINING.
- PROVIDE AND INSTALL AN LIGHT #NIO-1S-KO (OR PRE-APPROVED EQUIVALENT) RELAY PACK AND LOW-VOLTAGE MOMENTARY WALL SWITCHES TO CONTROL THE MAP LIGHTS IN THE APPARATUS BAY. CONTROL MODULE TO RECEIVE DRY CONTACT INPUT FROM FIRE CONTROL SYSTEM TO AUTOMATICALLY FORCE LIGHTS TO FULL ON WHEN AN "ALARM STATE" IS TRIGGERED. UPON LOSS OF CONTACT CLOSURE FROM THE ALARM, THE LIGHTS SHOULD RETURN TO THEIR PREVIOUS STATE (ON OR OFF). THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING WITH THE LA COUNTY FIRE DEPARTMENT THAT THE SELECTED DEVICE IS COMPATIBLE WITH THEIR PROPRIETARY COMMUNICATIONS SYSTEM.

LUMINAIRES, PER SCHEDULE ON SHEET E2.1 AND E2.2, ARE TO BE EQUIPPED WITH A "LIGHT" CONTROL SYSTEM OR PRE-APPROVED EQUAL. USE OF STAND ALONE CONTROL STATIONS MANUFACTURED BY "SENSOR SWITCH" IS ACCEPTABLE. ELECTRICAL CONTRACTOR TO MAKE ALL LINE VOLTAGE AND LOW VOLTAGE CONNECTIONS AS SHOWN ON VENDOR GENERATED SHOP DRAWINGS. CONTROL STATIONS SHALL BE WIRED AND PROGRAMMED TO MEET THE ARCHITECT'S AND OWNERSHIP OBJECTIVES.

THE LIGHTING CONTROL SYSTEM SHALL BE A TURN-KEY SYSTEM.

**WILLIAM LOYD JONES  
ARCHITECT**

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90232

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**LIGHTING PLAN**

**FIRE STATION 46**  
COUNTY OF LOS ANGELES FIRE DEPARTMENT  
26720 BOMBERO LANE  
VALENCIA, CALIFORNIA

Issue	
ISSUED FOR PLAN CHECK	07-31-25
PLAN CHECK CORRECTIONS	10-17-25



THE ABOVE DRAWINGS AND SPECIFICATIONS AND DISAS. DESIGNS AND ARRANGEMENTS REPRESENTED THEREIN ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT AND TO WHOMsoever SHALL BE ASSIGNED. NO PART OF THESE DRAWINGS OR SPECIFICATIONS SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT. ANY CONTRACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE A CONVICTION OF VIOLATION OF THESE RESTRICTIONS.

WARRANTY DISCLOSURE: ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER ANY OTHER DOCUMENTS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR THE ACCURACY OF ALL INFORMATION SHOWN ON THESE DRAWINGS AND SPECIFICATIONS. ANY NOTICES OF ANY VIOLATIONS FROM THE OVERSEERS AND CONDITIONS SHOWN ON THESE DRAWINGS, SHOP DETAILS MUST BE SUBMITTED TO THIS OFFICE FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION.

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Date	03-21-25
Drawn	E.L.
Checked	E.L.
Scale	AS NOTED
Job. No.	25-115





**SOUTHERN CALIFORNIA**  
**EDISON®**  
AN EDISON INTERNATIONAL COMPANY

Underground Structures Standards

**Table SS 504-1: Surface-Mounted Transformer Pads — Dimensions**

Transformer	Pad Dimensions (in)								Weight (lb)	SAP
	A	B	C	D	E	F	G	H		
10 25 kVA–167 kVA	54	48	26	11	12	6	4	2	750	10118012
30 75 kVA–150 kVA No Switch	66	72	38	17	15	6	6	3	2,200	10118011 <a href="#">See Note 8</a>
30 75 kVA–500 kVA SW and Fuse	72	94	50	22	22	14	6	3	3,200	10118013 <a href="#">See Note 8</a>

**Note(s):**

1. Concrete to be 3,000 psi (minimum) at 28 days.
2. Reinforcing steel to be No. 4 bars installed in a double net. Perimeter bars to be continuous (8 inch minimum lap or weld).
3. Hold-down brackets to be P-3200 series unistrut (or equal).
4. Primary cables must be installed in shaded area of drawing above as far to the right as possible on single phase transformers only. On three-phase transformers primary cables must be installed in the unshaded area of drawing above as far left as possible.
5. See [AC 701](#) for pad-mounted transformer/capacitor grounding requirements and [AC 703](#) for approved grounding materials.
6. 1-inch listing insert to be located at center of gravity on precast pads.
7. See [SS 500](#) for approved manufacturers.
8. The three-phase transformer should only be used on a pad when four or fewer services are to be installed. A slab box should be used when more than four services will be installed.
9. Use a thin layer of redi-crete (or equivalent) for rodent and weed control or where transformer does not fully cover opening in pad.
10. A 17" x 30" x 15" plastic handhole (SAP 10117726) shall be inverted and installed under the cable opening of the pad. This will provide adequate cable slack for operation of the load-break elbows on single phase transformers only.

= For Reference Only

**SS 504**

Sheet 2 of 2

**UGS**

► SCE Public ◄

**Pad for Surface-Mounted Transformer Poured in Field Construction and Precast Construction (Concrete)**

**What's Changed?** Note 4 updated and Note 10 added for clarity.

Approved by:

*/s/ C.*

Effective Date:

10-28-2016

**TO MEET SCE REQUIREMENTS,  
DO NOT INSTALL A HOUSE-  
KEEPING PAD IN THE MAIN  
ELECTRICAL ROOM.**

DETAILS

TATION 46

F LOS ANGELES FIRE DEPARTMENT  
BBERO LANE  
CALIFORNIA

WILLIAM LOYD JONES  
ARCHITECT

9415 culver boulevard  
culver city, california  
9 0 2 3 2

TEL 310 392 3995

**SOUTHERN CALIFORNIA  
EDISON**  
An EDISON INTERNATIONAL Company

**Underground Structures Standards**

**Figure MC 830-1.3: Removable Barrier Detail**

**Figure MC 830-1.4: Protective Barrier Detail**

**Figure MC 830-1.5: Cast-in-Place Concrete Barrier Detail**

1. Structures will normally be installed only in nontraffic areas. Protective barriers are to be used where construction exposes equipment to traffic.
2. Tops of protective barriers are to be smooth cut and top edges are to be rounded.
3. At least one barrier is to be removable, with a means of lifting to support the weight of the barrier, when overhead obstacles prevent equipment removal or installation by crane. See Figure MC 830-1.3 (Sheet 2). The location of the removable barrier(s) shall be approved by the Underground Inspector.
4. Adequate clearance must be provided for doors, cooling radiators, and so forth.
5. Protective barriers, as shown above, indicate typical requirements. Field conditions will necessitate changes for adequate equipment protection. Application of protective barriers is site-specific.

**MC 830**

Sheet 2 of 3

**UGS**

► SCE Public ◄

### Protective Barrier for Underground Distribution Structures

**What's Changed?** Revised Figure MC 830-1.3 to show a 27" vertical distance from grade to the bottom of the removable barrier.

Approved by:

*[Signature]*

Effective Date:

10-26-2018

**BUILDING AND SAFETY DIVISION**  
Department of Public Works  
**APPROVED**  
**UNDER LOS ANGELES COUNTY CODE**  
**TITLE 27**  
**AMARKARI**  
04/21/2026 3:08:16 PM

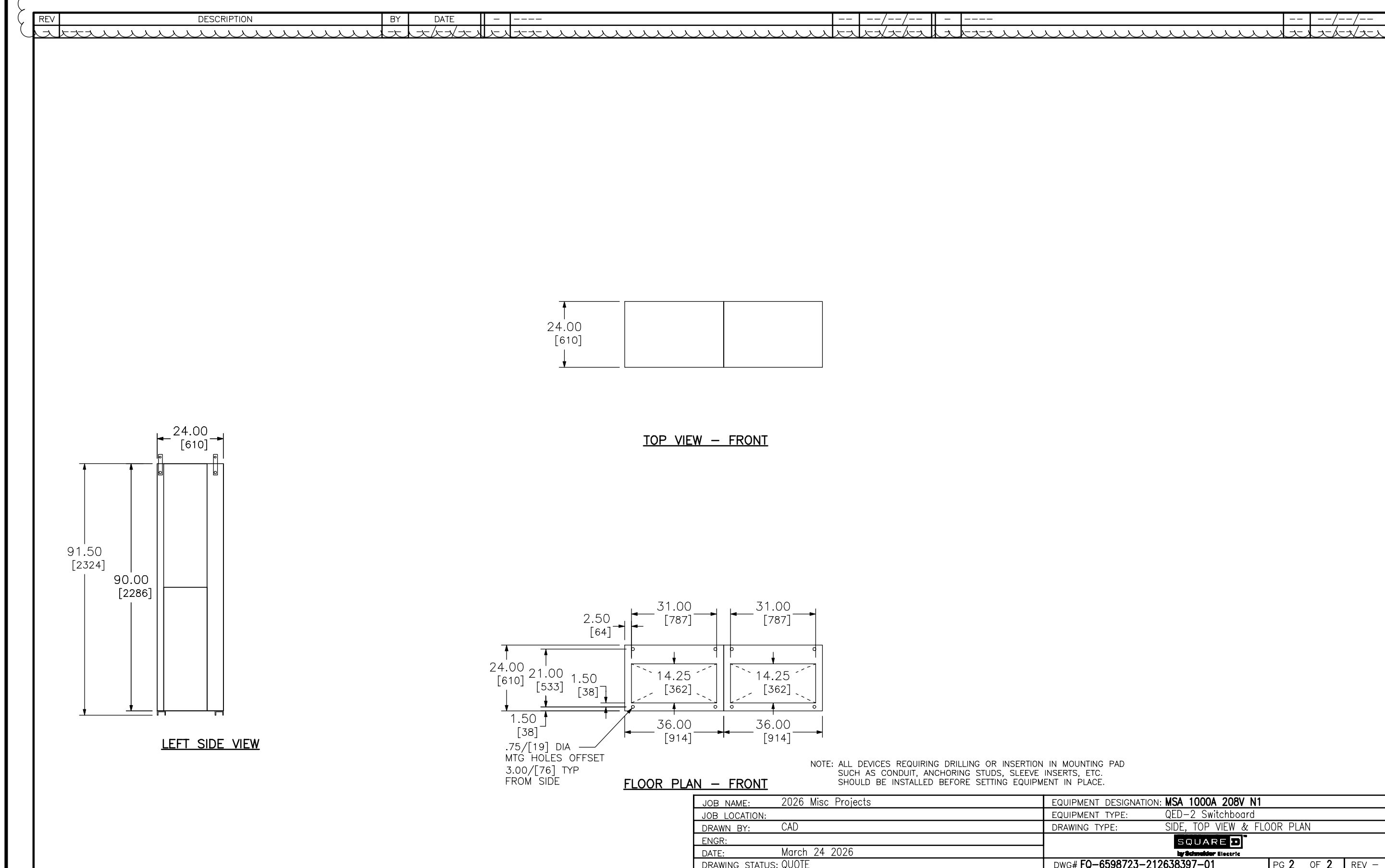
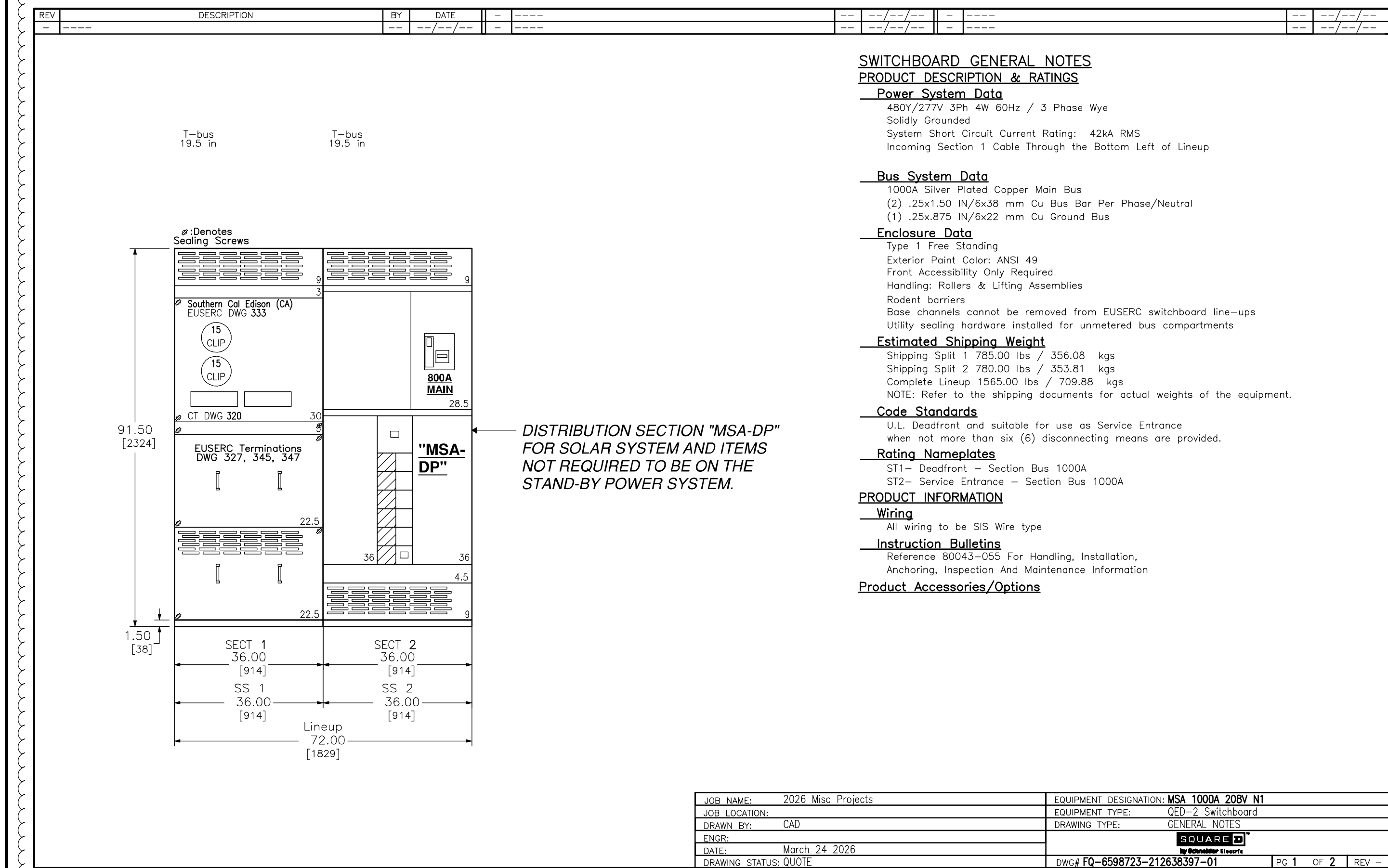
This set of plans and specifications shall be kept on file at the job site at all times, kept in a neat order, and available for inspection by the building department or other authorized agency at any time during the construction of the project. The approval of this set of plans and specifications shall constitute the approval of the work of activity that violates any provisions of the County Ordinance or the State Law.

**BUILDING AND SAFETY DIVISION**  
Department of Public Works  
**FINAL ELECTRICAL APPROVED**  
**UNDER CCR TITLE 24, PART 1,**  
**ARTICLE 1 & PART 6**  
**AMARKARI**  
04/21/2026 3:08:19 PM

This set of plans and specifications shall be kept on file at the job site at all times, and it is intended to make any changes. The approval of this set of plans and specifications shall constitute the approval of the work of activity that violates any provisions of the County Ordinance or the State Law.

[illegible]

# E7.0



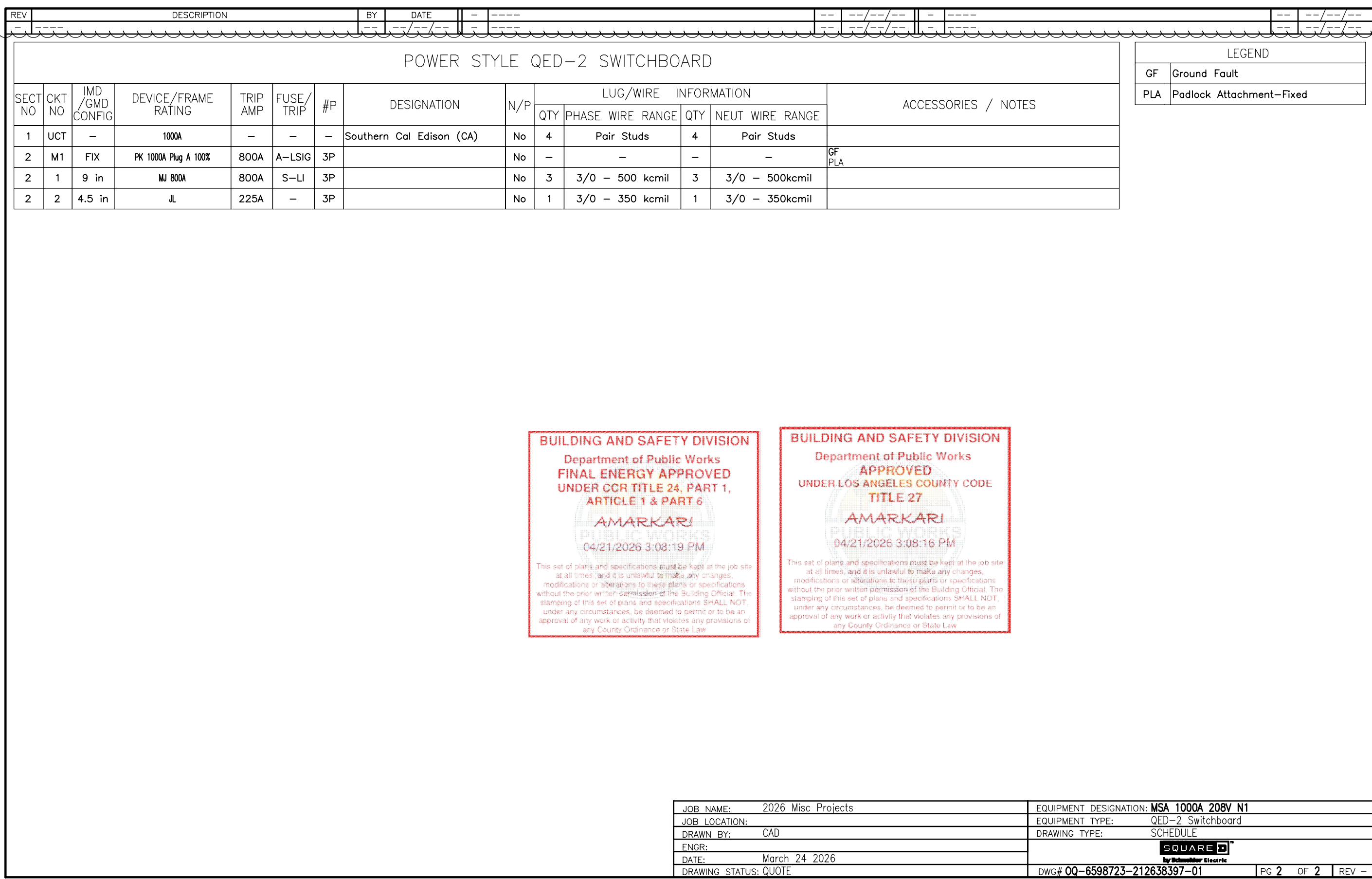
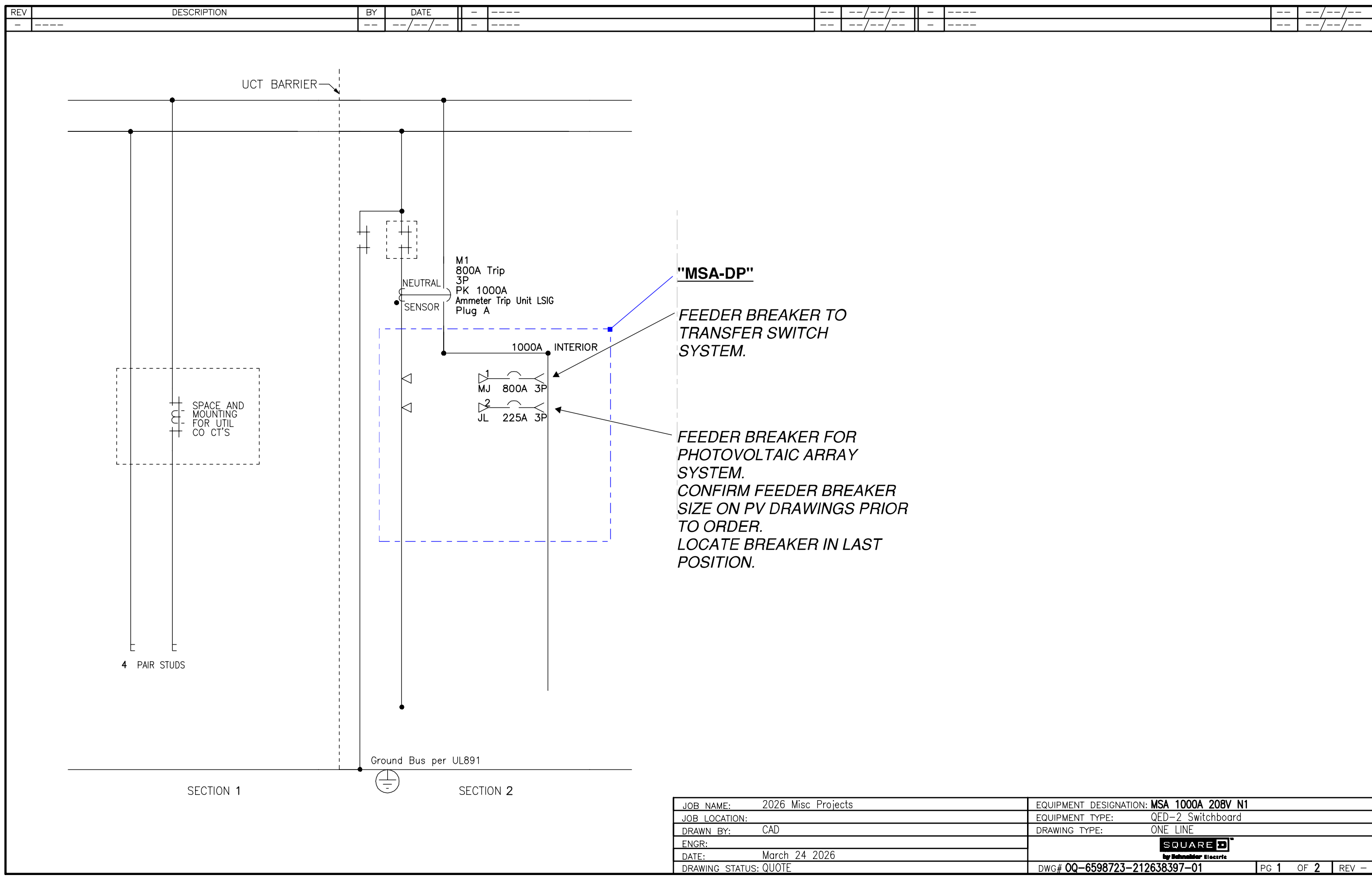
PROPOSED SECTION LAYOUT

The proposed section order prioritizes ease of construction. The design aims to place Section 2, which supplies the automatic transfer switch, at least 36 inches away. This spacing facilitates conduit bends that meet minimum conductor bending radius requirements.

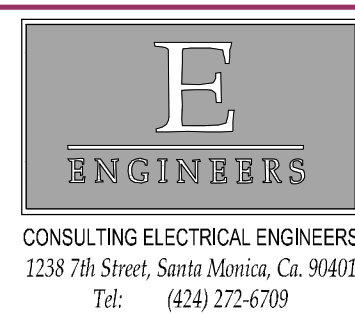
However, if the Electrical Contractor can achieve significant cost savings by reversing the section order, this option is available. Please inform the Engineer of Record of this preference so that the final submittal package can be reviewed before service equipment manufacturing begins.

HOUSE-KEEPING PAD  
NOT REQUIRED -  
SEE SHEET E7.0

1 MAIN SERVICE 'MSA' ELEVATION  
SCALE: NOT TO SCALE



2 MAIN SERVICE 'MSA' & 'MSA-DP' VENDOR ONE-LINE  
SCALE: NOT TO SCALE



E7.1

WILLIAM LOYD JONES  
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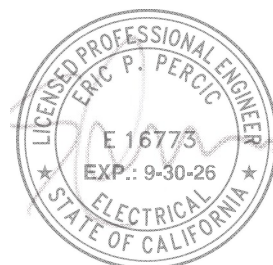
EQUIPMENT DETAILS

FIRE STATION 46  
COUNTY OF LOS ANGELES FIRE DEPARTMENT  
26720 BOMBERO LANE  
VALENCIA, CALIFORNIA

FI VE POINT.

Issue

SCE REVIEW	03-21-25
ISSUED FOR PLAN CHECK	07-31-25
PLAN CHECK CORRECTIONS	11-07-25
DELTA 1 FOR PLAN CHECK	03-31-26



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Date	03-21-25
Drawn	I.E.
Checked	E.F.
Scale	AS NOTED
Job. No.	25-10





Date of Response: 11/4/2025

Response to Letter of Request for Short-Circuit Current Value for Panel Sizing and Protection Coordination

Disclaimer:

SCE provides the information contained in this letter on an "as is" basis without warranty of any kind, either express or implied. This disclaimer of liability applies to any claim or cause of action for damages or injuries occurring as a result of any error, omission, deletion or defect in the content of the information provided, including, but not limited to, negligence, breach of contract, or tort. Under no circumstances shall SCE or any of its parent or affiliate companies, employees, directors or shareholders be liable to any party for (i) any direct, indirect, special, punitive, incidental, exemplary, consequential, or any other damages arising in any way out of the availability, use or reliance on the information provided; or (ii) any claim attributable to errors, omissions or other inaccuracies in the information provided herein.

The values provided below are maximum Short-Circuit values, based on current distribution system conditions. Utility distribution systems are dynamic, and the electrical characteristics of the system can vary significantly due to abnormal conditions, upgrades, modifications, and temporary or permanent reconfigurations. Therefore, the Short-Circuit values provided below are subject to change frequently and without notice. SCE does not guarantee to hold the system parameters represented in this information constant. Consequently, SCE recommends that all electrical work on the service panel main breaker should be done in a de-energized condition to eliminate arc flash hazard at this location.

To: Customer: Newhall Land & Farming Co. Address: 25124 Springfield Ct. STE 300 City, ZIP: Valencia, CA 91355 Phone: N/A Fax: N/A Email: N/A

From: Southern California Edison (SCE) - Distribution Engineering

Engineer: Brandon Garcia de Alba Address: 28460 Avenue Stanford City, ZIP: Valencia, CA 91355 Phone: 661-666-1547 Fax: N/A Email: brandon.garciadealba@sce.com

Subject: Southern California Edison's Contribution to Short-Circuit Current at the Point-of-Connection of SCE's Service Conductors to the Customer's Service Entrance Facilities (see disclaimer, above)

Project: Name: Newhall Land & Farming Co. Address: 26708 Bombero Ln. City, Zip: Valencia, CA 91381 Structure: 5814213



Date of Response: 11/4/2025

- (1) The voltage and service configuration to be utilized for this project will be 208 Volts, 3-phase, 4-wire to serve a 800-Ampere main switchboard.
- (2) SCE's contribution to Short-Circuit Current, at the time of calculation, is approximately 7,110 Amperes (3-phase) and 8,770 Amperes (phase-ground). The 3-phase X/R = 1.28 and the phase-ground X/R = 1.37.

Service Conductors: 1 runs of 700 Size (X AI □ Cu)

Distance from Transformer: 220 feet

Transformer: 150 kVA, 3-phase, %Z = 2.7

Existing Transformer New Transformer

Comments:

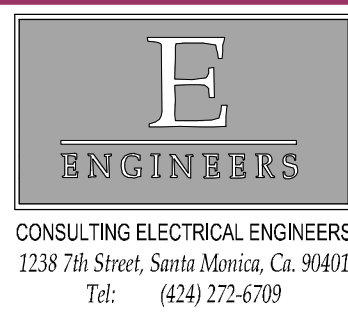
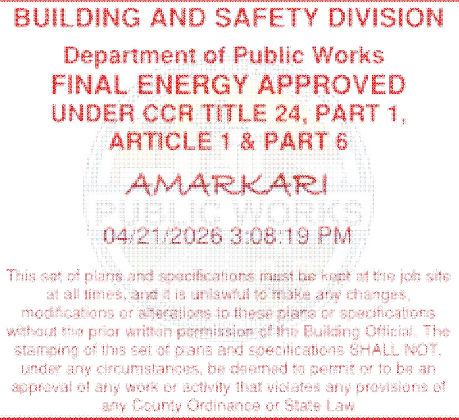
- (3) SCE's maximum contribution to Short-Circuit Current is approximately 12,710 Amperes (3-phase), and 15,160 Amperes (phase-ground). These maximum Short-Circuit Current values are based on SCE's largest transformer capable of serving a 800-Ampere main service switchboard (at 100% rating).

Service Conductors: 2 runs of 700 Size (X AI □ Cu)

Distance from Transformer: 220 feet

Transformer: 225 kVA, 3-phase, %Z = 2.7

Comments:



WILLIAM LOYD JONES ARCHITECT

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SCE FAULT CURRENT INPUT & COMMITMENT LETTER

FIRE STATION 46 COUNTY OF LOS ANGELES FIRE DEPARTMENT 26720 BOMBERO LANE VALENCIA, CALIFORNIA

FIVE POINT

Issue

PLAN CHECK CORRECTIONS 11-07-25



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WRITTEN DISPOSITION ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER ANY ORAL DISCUSSION. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR THE ACCURACY OF ALL DIMENSIONS AND CONDITIONS SHOWN ON THESE DRAWINGS. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION.

Date 03-21-25 Drawn I.E. Checked E.F. Scale AS NOTED Job. No. 25-10

E7.3





<p><b>Indoor Lighting Mandatory Measures:</b></p> <p><b>110.9 LIGHTING CONTROLS AND COMPONENTS</b></p> <p>ALL LIGHTING CONTROL DEVICES AND SYSTEMS, AND ALL LIGHT SOURCES SHALL MEET THE APPLICABLE REQUIREMENTS OF 110.9.</p> <p><i>NOTE: THE EXCEPTED SPACES DO NOT COUNT TOWARDS THE 10,000 FT2 THRESHOLD.</i></p> <p><b>130.0 GENERAL LUMINAIRE REQUIREMENTS</b></p> <p>ALL LUMINAIRES SHALL BE FACTORY-LABELLED PER 130.0(c).</p> <p>ENERGY MANAGEMENT CONTROL SYSTEMS (EMCS) SHALL MEET REQUIREMENTS OF 130.0(e).</p> <p><b>130.1(a) MANUAL AREA CONTROLS</b></p> <p>EACH ROOM OR AREA WITH FLOOR-TO-CEILING WALLS IN THIS BUILDING SHALL HAVE LIGHTING CONTROLS THAT ALLOW LIGHTING TO BE MANUALLY TURNED ON AND OFF. MANUAL CONTROLS SHALL:</p> <ol style="list-style-type: none"> <li>1. BE READILY ACCESSIBLE</li> <li>2. BE LOCATED IN THE SAME ENCLOSED AREA WITH THE LIGHTING IT CONTROLS.</li> <li>3. PROVIDE SEPARATE CONTROL OF GENERAL, FLOOR, WALL, WINDOW CASE DISPLAY, ORNAMENTAL AND SPECIAL EFFECTS LIGHTING SO EACH TYPE CAN BE TURNED ON AND OFF SEPARATELY WITHOUT AFFECTING OTHER LIGHTING OR EQUIPMENT.</li> </ol> <p><b>130.1(b) MULTILEVEL LIGHTING CONTROLS</b></p> <p>GENERAL LIGHTING IN ALL ROOMS AND AREAS 100 FT2 OR GREATER AND WITH MORE THAN 0.5 WATTS PER FT2 OF LIGHTING LOAD SHALL HAVE MULTILEVEL CONTROLS THAT ALLOW LIGHT LEVELS TO BE ADJUSTED UP AND DOWN. CONTROLS SHALL PROVIDE NUMBER OF CONTROL STEPS AND UNIFORM ILLUMINANCE LIGHT LEVELS PER TABLE 130.1-A.</p> <p><b>130.1(c): SHUTOFF CONTROLS</b></p> <p>ALL INSTALLED INDOOR LIGHTING SHALL BE EQUIPPED WITH CONTROLS TO AUTOMATICALLY REDUCE LIGHTING POWER WHEN SPACE IS TYPICALLY UNOCCUPIED.</p> <p><b>130.1(c)1: CONTROL REQUIREMENTS</b></p> <p>ALL INSTALLED INDOOR LIGHTING SHALL HAVE ALL OF THE FOLLOWING:</p> <ol style="list-style-type: none"> <li>A. CONTROL(S) CAPABLE OF AUTOMATICALLY SHUTTING OFF ALL LIGHTING IN THE SPACE WHEN TYPICALLY UNOCCUPIED (OCCUPANT SENSING CONTROL, AUTOMATIC TIME/SWITCH CONTROL, OR OTHER)</li> <li>B. SEPARATE CONTROLS FOR LIGHTING ON EACH FLOOR (OTHER THAN STAIRWELLS)</li> </ol> <p><b>C. SEPARATE CONTROLS FOR A SPACE ENCLOSED BY CEILING HEIGHT PARTITIONS NOT EXCEEDING 5,000 FT2</b></p> <p><b>130.1(c)6 PARTIAL OR FULL-OFF OCCUPANT SENSORS</b></p> <p>PROVIDE PARTIAL OR FULL-OFF OCCUPANT SENSORS, IN ADDITION TO SHUTOFF CONTROLS PER 130.1(c)1 AND 130.1(c)2, IN THE FOLLOWING SPACES:</p> <ul style="list-style-type: none"> <li>• AISLE WAYS AND OPEN AREAS IN WAREHOUSES</li> <li>• LIBRARY BOOK STACK AISLES</li> <li>• CORRIDORS AND STAIRWELLS</li> <li>• OFFICES GREATER THAN 250 SQ. FT.</li> </ul>
---

**Indoor Lighting Mandatory Measures:**

**130.1(f) CONTROL INTERACTIONS**

EACH LIGHTING CONTROL INSTALLED TO MEET 130.1 REQUIREMENTS SHALL INCORPORATE THE FUNCTIONS OF OTHER LIGHTING CONTROLS REQUIRED BY THIS SECTION.

1. FOR GENERAL LIGHTING, MANUAL AREA CONTROL SHALL PERMIT THE LEVEL OF LIGHT PROVIDED WHILE LIGHTING IS ON TO BE SET OR ADJUSTED BY CONTROLS SPECIFIED IN 130.1(b), (c), (d) and (e).
2. MANUAL AREA CONTROL SHALL PERMIT SHUTOFF CONTROL TO TURN THE LIGHTING DOWN OR OFF.
3. MULTILEVEL CONTROL SHALL PERMIT THE AUTOMATIC DAYLIGHTING CONTROL TO ADJUST ELECTRIC LIGHTING IN RESPONSE TO DAYLIGHT.
4. MULTILEVEL CONTROL SHALL PERMIT THE DEMAND RESPONSIVE (DR) CONTROL TO ADJUST LIGHTING DURING A DR EVENT THEN RETURN IT TO THE LEVEL SET BY THE CONTROL AFTER THE EVENT.
5. SHUTOFF CONTROL SHALL PERMIT THE MANUAL AREA CONTROL TO TURN THE LIGHTING ON.
6. AUTOMATIC DAYLIGHTING CONTROL SHALL PERMIT MULTILEVEL LIGHTING CONTROL TO ADJUST THE LIGHTING LEVEL.
7. FOR LIGHTING CONTROLLED BY MULTILEVEL LIGHTING CONTROLS AND OCCUPANT SENSING CONTROLS THAT PROVIDE AUTOMATIC-ON FUNCTION, CONTROLS SHALL PROVIDE A PARTIAL-ON FUNCTION THAT IS CAPABLE OF AUTOMATICALLY ACTIVATING BETWEEN 50-70% OF CONTROLLED LIGHTING POWER.
8. RESERVED
9. FOR SPACE CONDITIONING SYSTEM ZONES SERVING ONLY SPACES THAT ARE REQUIRED TO HAVE OCCUPANT SENSING CONTROLS SHALL BE CONTROLLED BY OCCUPANCY SENSING CONTROLS.

<b>2022 BUILDING ENERGY EFFICIENCY STANDARDS</b>	
<b>CERTIFICATE OF COMPLIANCE – RESIDENTIAL LIGHTING</b>	
<b>MANDATORY FEATURES AND DEVICES – HIGHLIGHTS OF SECTION 150.0(k)</b>	
<b>Lighting – Single Family</b>	<b>(Page 1 of 2)</b>
Project Name: <b>FIRE STATION 46 – VALENCIA</b>	Date Prepared: 07/31/2025

YES N/A

✓	<p><b>Luminaire Requirements: Luminaire Efficacy</b></p> <ol style="list-style-type: none"> <li>1. Light sources that are not marked "JA8-E" shall not be installed in enclosed luminaires.</li> </ol>
✓	<p><b>Luminaire Requirements: Recessed Downlight Luminaires in Ceilings</b></p> <ol style="list-style-type: none"> <li>1. Shall not contain a screw base lamp socket.</li> <li>2. Have a label that certifies the luminaire is airtight with air leakage less than 2.0 CFM at 75 Pascals when tested in accordance with ASTM E283.</li> <li>3. Listed for zero clearance insulation contact (IC).</li> <li>4. Sealed with a gasket or caulk between the luminaire housing and ceiling, and all air leakage paths between conditioned and unconditioned spaces are sealed with a gasket or caulk.</li> <li>5. Allows ballast maintenance and replacement to be readily accessible to building occupants from below the ceiling without requiring cutting of holes in the ceiling.</li> </ol>
✓	<p><b>Luminaire Requirements: Blank Electrical Boxes</b></p> <ol style="list-style-type: none"> <li>1. The number of blank electrical boxes installed more than five feet above the finished floor and do not contain a luminaire or control device, are not greater than the number of bedrooms. The blank boxes are served by a dimmer, vacancy sensor, or fan speed control.</li> </ol>
✓	<p><b>Indoor Lighting Controls: Automatic-off Controls</b></p> <ol style="list-style-type: none"> <li>1. In <b>bathrooms, garages, laundry rooms and utility rooms</b>, at least one luminaire in each of these spaces is controlled by an occupant or vacancy sensor providing automatic-off functionality.</li> </ol>

*E Engineers – Consulting Electrical Engineers*

January 2023

<b>2022 BUILDING ENERGY EFFICIENCY STANDARDS</b> CERTIFICATE OF COMPLIANCE – RESIDENTIAL LIGHTING MANDATORY FEATURES AND DEVICES – HIGHLIGHTS OF SECTION 150.0(k) Lighting – Single Family <span style="float: right;">(Page 2 of 2)</span>	
Project Name: FIRE STATION 46 – VALENCIA	Date Prepared: 07/31/2025

YES N/A

✓	<p>1. Lighting in habitable spaces, including but not limited to living rooms, dining rooms, kitchens, and bedrooms, shall have readily accessible wall-mounted dimming controls that allow the lighting to be manually adjusted up and down. Forward phase cut dimmers controlling LED light sources in these spaces shall comply with NEMA SSL 7A.</p> <p>Exception: 1) hallways 2) closets under 70 SF.</p>	
✓	<p><b>Internally Illuminated Address Signs</b></p> <p>1. Internally illuminated address signs shall either:</p> <ul style="list-style-type: none"> <li>Comply with Section 140.8. Applicable non-residential sign compliance forms shall also be submitted; or</li> <li>Consume no more than 5 Watts of power.</li> </ul>	
✓	<p><b>Residential Outdoor Lighting</b></p> <p>1. High efficacy outdoor lighting or LED light sources are installed.</p> <p>2. Outdoor Lighting is controlled by a manual ON and OFF switch that permits one of the following actions:</p> <ul style="list-style-type: none"> <li>Controlled by a photocell and either a motion sensor or an automatic time switch control; or</li> <li>Controlled by an astronomical time clock control.</li> </ul> <p>3. Controls that override to ON shall not be allowed unless the override automatically returns the automatic control to its normal operation within 6 hours.</p> <p>4. An energy management control that provides the specified lighting controls functionality and complies with all requirements applicable to the specified controls may be used to meet the above requirements.</p>	

*E Engineers – Consulting Electrical Engineers*

January 2023

WILLIAM LOYD JONES  
ARCHITECT

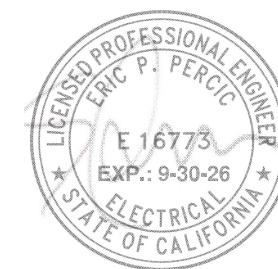
9415 culver boulevard  
culver city, california  
90232

TEL 310 392 3995

T-24 CALCULATIONS  
- LIGHTING FOR MAIN BUILDING

**FIRE STATION 46**  
COUNTY OF LOS ANGELES FIRE DEPARTMENT  
26720 BOMBERO LANE  
VALENCIA, CALIFORNIA

Issue	
SCE REVIEW	03-21-25
DESIGN DEVELOPMENT REVIEW	04-07-25
ISSUED FOR PLAN CHECK	07-31-25



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Date	03-21-25
Drawn	I.2
Checked	E.F
Scale	AS NOTED
Job. No.	25-1

**E**  
**ENGINEERS**  
CONSULTING ELECTRICAL ENGINEERS  
1238 7th Street, Santa Monica, Ca. 90401  
Tel: (424) 272-6709

## E8.2

# ADDENDUM# 3 - BID SET - APRIL 30, 2026

