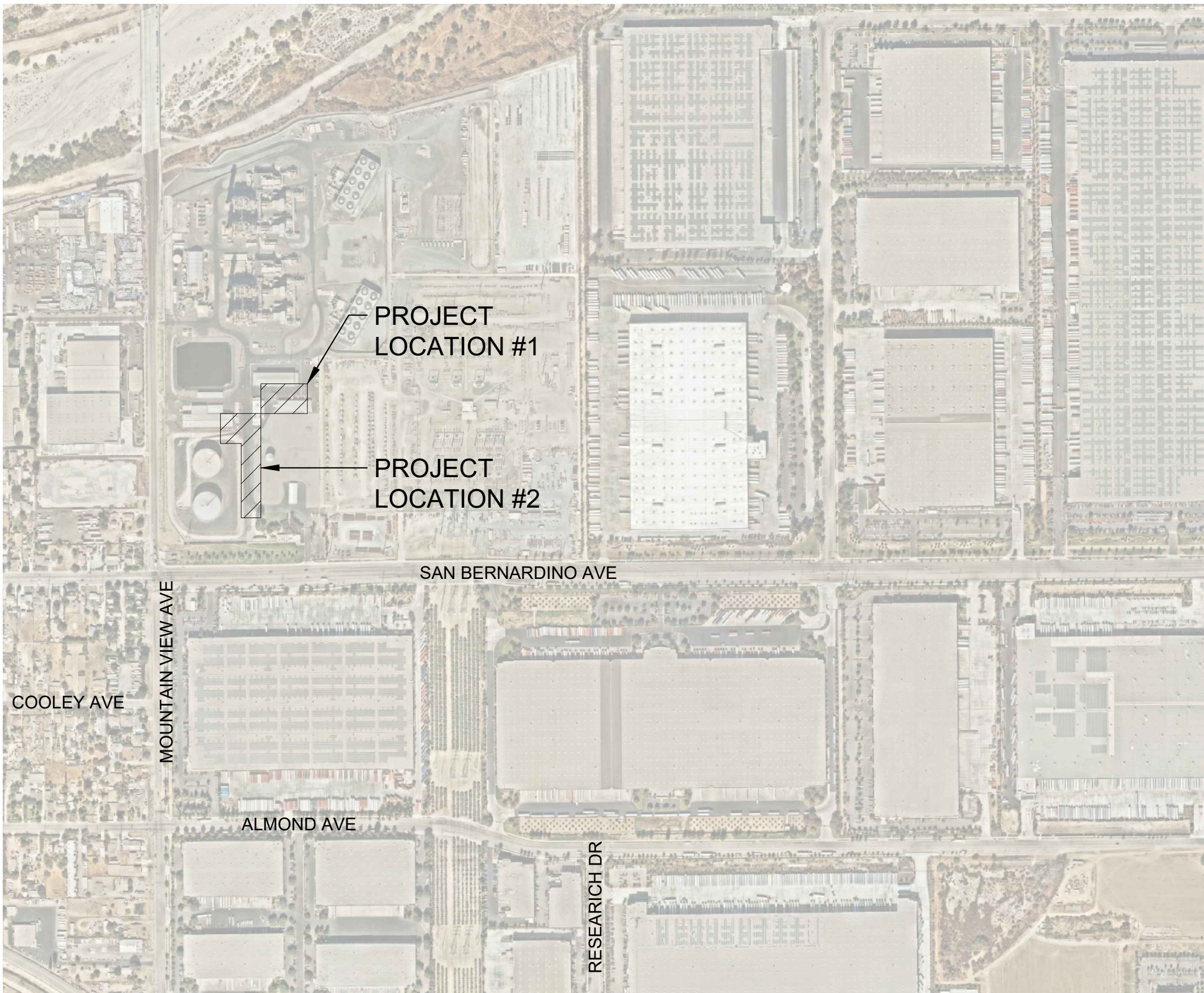


<b>DOCKETED</b>	
<b>Docket Number:</b>	00-AFC-02C
<b>Project Title:</b>	Mountainview Power Plant - Compliance
<b>TN #:</b>	240640
<b>Document Title:</b>	Mountainview Generation Preliminary Submittal
<b>Description:</b>	N/A
<b>Filer:</b>	Jan Whitson
<b>Organization:</b>	Southern California Edison
<b>Submitter Role:</b>	Public
<b>Submission Date:</b>	11/19/2021 8:29:45 AM
<b>Docketed Date:</b>	11/19/2021



# SOUTHERN CALIFORNIA EDISON TSD FLEET EV CHARGING PROGRAM MOUNTAIN VIEW GENERATION STATION



LOCATION MAP

NOT TO SCALE

## GENERAL CONTRACT NOTES:

- CONTRACTOR SHALL PROVIDE ALL MATERIALS SUCH AS TOOLS, EQUIPMENT, LABOR, AND INCIDENTALS REQUIRED INCLUDING THE CONSTRUCTION OF ALL PROPOSED IMPROVEMENTS SHOWN ON THE PLANS AND AS SPECIFIED BY THE GOVERNING STANDARDS AND/OR THE CIVIL AND ELECTRICAL ENGINEERS.
- CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.
- IF DAMAGED DURING CONSTRUCTION, THE CONTRACTOR SHALL REPLACE IN KIND ALL EXISTING STRUCTURES, WALKWAYS, CURB & GUTTER, LANDSCAPING, AND/OR OTHER IMPROVEMENTS TO AN EXISTING OR BETTER CONDITION.
- CONTRACTOR SHALL REPLACE ALL EXISTING STRIPING, SIGNAGE AND MARKINGS DAMAGED DUE TO PROJECT CONSTRUCTION ACTIVITIES.
- ALL WORK SHALL BE CONFINED WITHIN THE EASEMENTS AND/OR CONSTRUCTION LIMITS AS SHOWN ON THE PLANS.
- APPROVAL OF THESE PLANS BY THE CITY ENGINEER DOES NOT AUTHORIZE ANY WORK TO BE PERFORMED UNTIL A PERMIT OR NOTICE TO PROCEED HAS BEEN ISSUED.
- BEFORE COMMENCING WORK, THE CONTRACTOR SHALL NOTIFY ALL UTILITY AUTHORITIES OR UTILITY COMPANIES HAVING POSSIBLE INTEREST IN THE WORK OF THE CONTRACTOR'S INTENTION TO EXCAVATE PROXIMATE TO EXISTING FACILITIES AND THE CONTRACTOR SHALL VERIFY THE LOCATION OF ANY UTILITIES IN THE WORK AREA. THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (U.S.A.) TWO (2) DAYS PRIOR TO BEGINNING ANY EXCAVATION.
- THE CONTRACTOR SHALL OBTAIN WRITTEN AUTHORIZATION FROM ANY PROPERTY OWNER GIVING HIM PERMISSION TO ENTER HIS PROPERTY FOR THE PURPOSE OF CONSTRUCTING THE IMPROVEMENTS DELINEATED ON THE PLANS AND TRANSITION THERETO.
- ALL BILL OF MATERIALS AND/OR EQUIPMENT SHALL BE PROVIDED AS SPECIFIED WITHIN THIS SET OR APPROVED EQUAL. ALL BILL OF MATERIALS AND/OR EQUIPMENT SHALL MATCH THE SAME QUALITY AND CAPACITY AS INDICATED HEREIN.
- CONTRACTOR MUST IMMEDIATELY NOTIFY THE ENGINEER OF RECORD, IDENTIFIED BY THE PROFESSIONAL ENGINEERING SEAL AND SIGNATURE ON THESE PLANS, OF ANY SITE CONDITION(S) AND/OR DESIGN INFORMATION THAT PREVENTS THE CONTRACTOR FROM COMPLYING WITH THE LAWS, REGULATIONS AND/OR BUILDING CODES.

## SURVEY NOTE:

THIS TOPOGRAPHIC SURVEY LOCATES SPECIFIC PHYSICAL FEATURES OF THE SITE AND THEIR ELEVATION AS DETERMINED NECESSARY BY THE PROJECT ENGINEER. IT IS NOT A COMPLETE TOPOGRAPHIC SURVEY OF THE SITE. THE INFORMATION SHOWN REFLECTS THE DATA OBTAINED BY FIELD SURVEY CONDUCTED ON FEBRUARY 17, 2021.

## UTILITY NOTE:

UTILITY INFORMATION SHOWN HEREON IS BASED ON RECORD INFORMATION SUPPLIED TO THE ENGINEER BY THE PROPERTY OWNER, TOGETHER WITH EVIDENCE GATHERED FROM OBSERVATION OF VISIBLE EVIDENCE BY A FIELD SURVEY. THE ENGINEER CAN MAKE NO GUARANTEE AS TO THE ACCURACY OR COMPLETENESS OF THE UNDERGROUND UTILITY FACILITIES SHOWN. PRIOR TO ANY SITE EXCAVATIONS, THE CONTRACTOR SHALL CONTACT THE OWNER AND UNDERGROUND SERVICE ALERT (U.S.A.) AND REQUEST THAT THEY IDENTIFY THE LOCATION OF ALL UNDERGROUND UTILITIES AT THE SITE. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

## BENCHMARK:

BENCHMARK: CNPT #10, NAILU TAG

ELEV: 1109.67'

ELEVATIONS ARE BASED ON NAVD88 AND DERIVED FROM AN AVERAGED GPS OBSERVATION UTILIZING THE LEICA SMARTNET NETWORK.

## GENERAL GRADING AND DRAINAGE NOTES:

THE REQUIREMENTS AND INFORMATION SET OUT BELOW ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE AND DO NOT ENCOMPASS ALL PROJECT REQUIREMENTS DESCRIBED BY THE PROJECT PLANS AND SPECIFICATIONS AND/OR APPLICABLE LAWS, REGULATIONS AND/OR BUILDING CODES.

- CONSTRUCTION OF ALL PROJECT SITE IMPROVEMENTS SUBJECT TO ADA ACCESS COMPLIANCE, INCLUDING ACCESSIBLE PATH OF TRAVEL, CURB RETURNS, PARKING STALL(S) AND UNLOADING AREAS, BARRIER FREE AMENITIES AND/OR OTHER APPLICABLE SITE IMPROVEMENTS SHALL CONFORM TO THE AMERICANS WITH DISABILITIES ACT, CALIFORNIA TITLE 24, AND THE CALIFORNIA BUILDING CODE, CURRENT EDITION(S).
- CONTRACTOR SHALL FIELD VERIFY ALL GRADES AND SLOPES PRIOR TO THE PLACEMENT OF CONCRETE AND/OR PAVEMENT FOR CONFORMANCE WITH ADA ACCESS COMPLIANCE REQUIREMENTS. EXAMPLES OF MINIMUM AND MAXIMUM LIMITS RELATED TO ADA ACCESS COMPLIANCE INCLUDE, BUT ARE NOT LIMITED TO:  
A) ACCESSIBLE PATH OF TRAVEL CROSS-SLOPE SHALL NOT EXCEED 2.00%  
B) ACCESSIBLE PATH OF TRAVEL LONGITUDINAL SLOPES SHALL NOT EXCEED 5.00%  
C) RAMP LONGITUDINAL SLOPES SHALL NOT EXCEED 8.33%  
WALKS SHALL NOT HAVE LESS THAN 48 INCHES IN UNOBSTRUCTED WIDTH
- CONTRACTOR MUST IMMEDIATELY NOTIFY THE ENGINEER OF RECORD, IDENTIFIED BY THE PROFESSIONAL ENGINEERING SEAL AND SIGNATURE ON THESE PLANS, OF ANY SITE CONDITION(S) AND/OR DESIGN INFORMATION THAT PREVENTS THE CONTRACTOR FROM COMPLYING WITH THE LAWS, REGULATIONS AND/OR BUILDING CODES GOVERNING ADA ACCESS COMPLIANCE.
- GROUND SLOPES AWAY FROM BUILDING PADS IN LANDSCAPED OR DIRT AREAS SHALL BE NO LESS THAN 5.0% FOR AT LEAST TEN (10) FEET, OR AS OTHERWISE NOTED ON THE PLANS.
- DRAINAGE SHALL NOT BE ALLOWED ONTO ADJACENT PROPERTY.
- ALL FILL MATERIAL USED TO SUPPORT THE FOUNDATIONS OF ANY BUILDING OR STRUCTURE SHALL BE PLACED UNDER THE DIRECTION OF A LICENSED GEOTECHNICAL ENGINEER, AND IN COMPLIANCE WITH THE PROJECT SPECIFICATIONS. A SOILS COMPACTION REPORT SHALL BE SUBMITTED TO THE ENGINEER OF RECORD AS REQUIRED BY THE PROJECT SPECIFICATIONS.
- THE CONTRACTOR SHALL IMPLEMENT DUST CONTROL MEASURES AS REQUIRED BY THE PROJECT SPECIFICATIONS, AND BY GOVERNING PUBLIC AGENCIES.
- THE CONTRACTOR SHALL IMPLEMENT A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AS REQUIRED BY THE PROJECT SPECIFICATIONS.
- CONTRACTOR TO MATCH EXISTING PAVEMENT GRADE AT ALL NEW PAVEMENT LOCATIONS UNLESS OTHERWISE NOTED ON THE PLANS.

## PROJECT LOCATION:

PROJECT IS LOCATED AT:  
2492 W SAN BERNARDINO AVE  
REDLANDS, CA 92374  
APN: 0292-491-05-0000

## DESIGN CRITERIA:

CALIFORNIA BUILDING CODE (CBC) 2019  
CALIFORNIA ELECTRICAL CODE (CEC) 2019  
NATIONAL ELECTRICAL CODE (NEC) 2017

## SCOPE OF EV IMPROVEMENT WORK:

- SITE AND ELECTRICAL INFRASTRUCTURE IMPROVEMENTS FOR INSTALLATION OF EV CHARGERS.
- IMPACTED EXISTING PARKING = 10 TOTAL SPACES; 10 STANDARD SPACES
- WORK DONE BY THE TRANSMISSION AND DISTRIBUTION CONSULTANT (T&D) IS SHOWN FOR REFERENCE ONLY.

PROPOSED EMPLOYEE CHARGER TABULATION		
EV CHARGER	NO. OF EVSE(S)	NO. OF PORT(S)
SINGLE (LEVEL 2)	2	2
DUAL (LEVEL 2)	1	2
TOTAL	TOTAL EVSE(S) = 3	TOTAL PORT(S) = 4
CBC 11B-228.3.2.1 REQUIRES EV CHARGING ACCESSIBLE AND AMBULATORY STALL(S) TO BE INSTALLED. 5 TO 25 PORTS = 1 VAN ADA, 1 STANDARD ADA, 0 AMBULATORY (SEE PLANS FOR LOCATION, DESIGNED FOR FUTURE EXPANSION.)		

PROPOSED FLEET CHARGER TABULATION		
EV CHARGER	NO. OF EVSE(S)	NO. OF PORT(S)
SINGLE (LEVEL 2)	5	5
TOTAL	TOTAL EVSE(S) = 5	TOTAL PORT(S) = 5
CBC 11B-228.3.2 EXCEPTION #1: EVCS NOT AVAILABLE TO THE GENERAL PUBLIC AND INTENDED FOR USE BY A DESIGNATED VEHICLE OR DRIVER SHALL NOT BE REQUIRED TO COMPLY WITH SECTION 11B-228.3.2		

## LIST OF CONSULTANTS:

CIVIL:  
CASSIE SCHOLZ  
BLAIR CHURCH & FLYNN  
451 CLOVIS AVE. STE 200  
CLOVIS, CA 93612  
(559) 326-1400

ELECTRICAL:  
BRIAN DUFFY  
BLAIR CHURCH & FLYNN  
451 CLOVIS AVE. STE 200  
CLOVIS, CA 93612  
(559) 326-1400

## CONSTRUCTION PROGRAM MANAGER:

JON GALVAN  
CORPORATE REAL ESTATE, PMO  
8631 RUSH STREET (MC-604-G30L)  
ROSEMEAD, CA 91770  
(626) 418-1002  
JON.GALVAN@SCE.COM

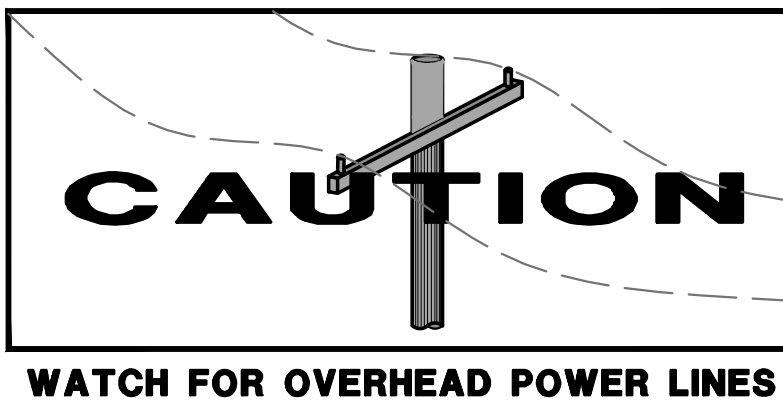
## OWNER/REPRESENTATIVE INFORMATION:

MOUNTAIN VIEW GENERATION  
2492 W SAN BERNARDINO AVE  
REDLANDS, CA 92374  
TELEPHONE: (626) 862-8365  
CONTACT: RODERICK GIRON

TELEPHONE: (909) 222-8540  
CONTACT: ROBERT WERTH

## SHEET INDEX

SHEET NO.	TITLE
T1.0	TITLE SHEET
C1.0	OVERALL SITE PLAN
C2.0	TOPOGRAPHIC SURVEY
C2.1	TOPOGRAPHIC SURVEY
C3.0	SITE AND GRADING PLAN
C3.1	SITE PLAN
C4.0	DETAILS
E1.0	ELECTRICAL CONDUIT PLAN
E1.1	ELECTRICAL CONDUIT PLAN
E2.0	CONDUIT SECTIONS AND DETAILS
E2.1	CONDUIT SECTIONS AND DETAILS
E3.0	ELECTRICAL SCHEDULE AND CIRCUITS
E3.1	ELECTRICAL SCHEDULE AND CIRCUITS
R1.0	REFERENCE DRAWINGS
R1.1	REFERENCE DRAWINGS
R2.0	TITLE 24 DOCUMENTS
TOTAL NUMBER OF SHEETS = 16	



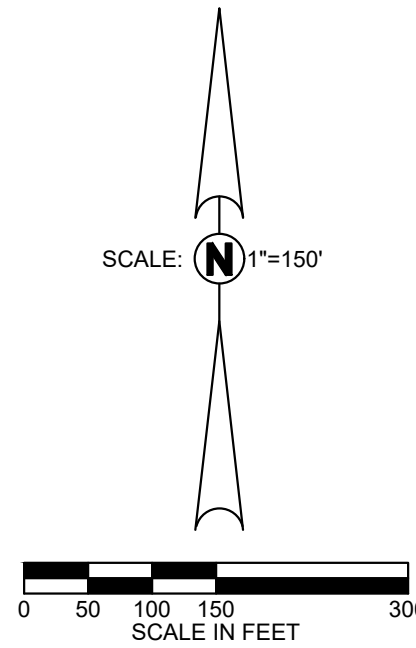
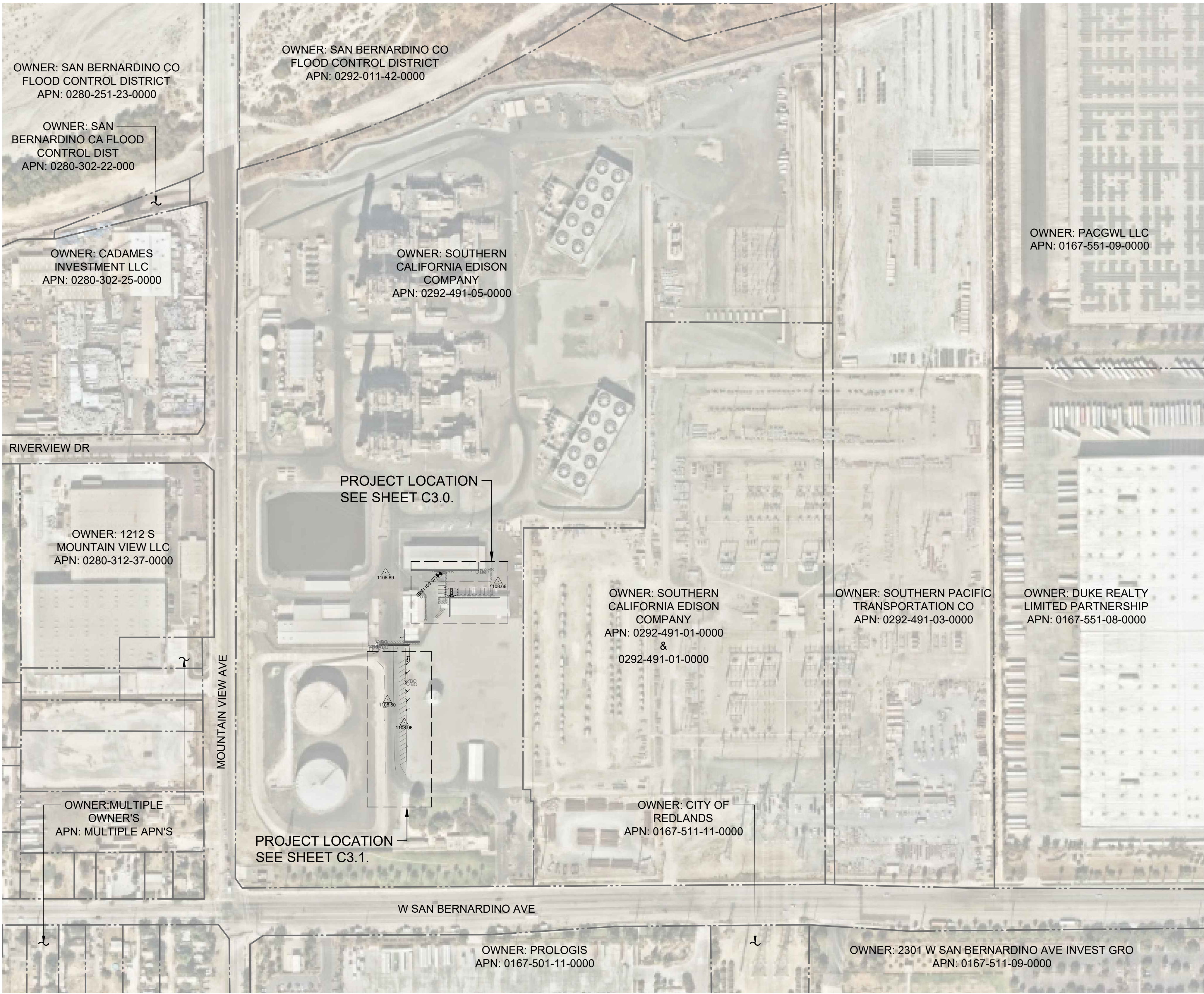
PROJECT LOCATION: 2492 W. SAN BERNARDINO AVE, REDLANDS, CA 92374

220-0213

Blair, Church & Flynn Consulting Engineers 451 Clovis Avenue, Suite 200 Clovis, California 93612 Tel (559) 326-1400 Fax (559) 326-1500		CONSULTANT	REF. & REV.	SOUTHERN CALIFORNIA EDISON	
TSD FLEET EV CHARGING PROGRAM MOUNTAIN VIEW GENERATION STATION TITLE SHEET				T1.0	DR. BY: SL CH. BY: CS DATE: 03/24/2021 SCALE AS NOTED
					SHEET NO. 1 OF 16 SHEETS

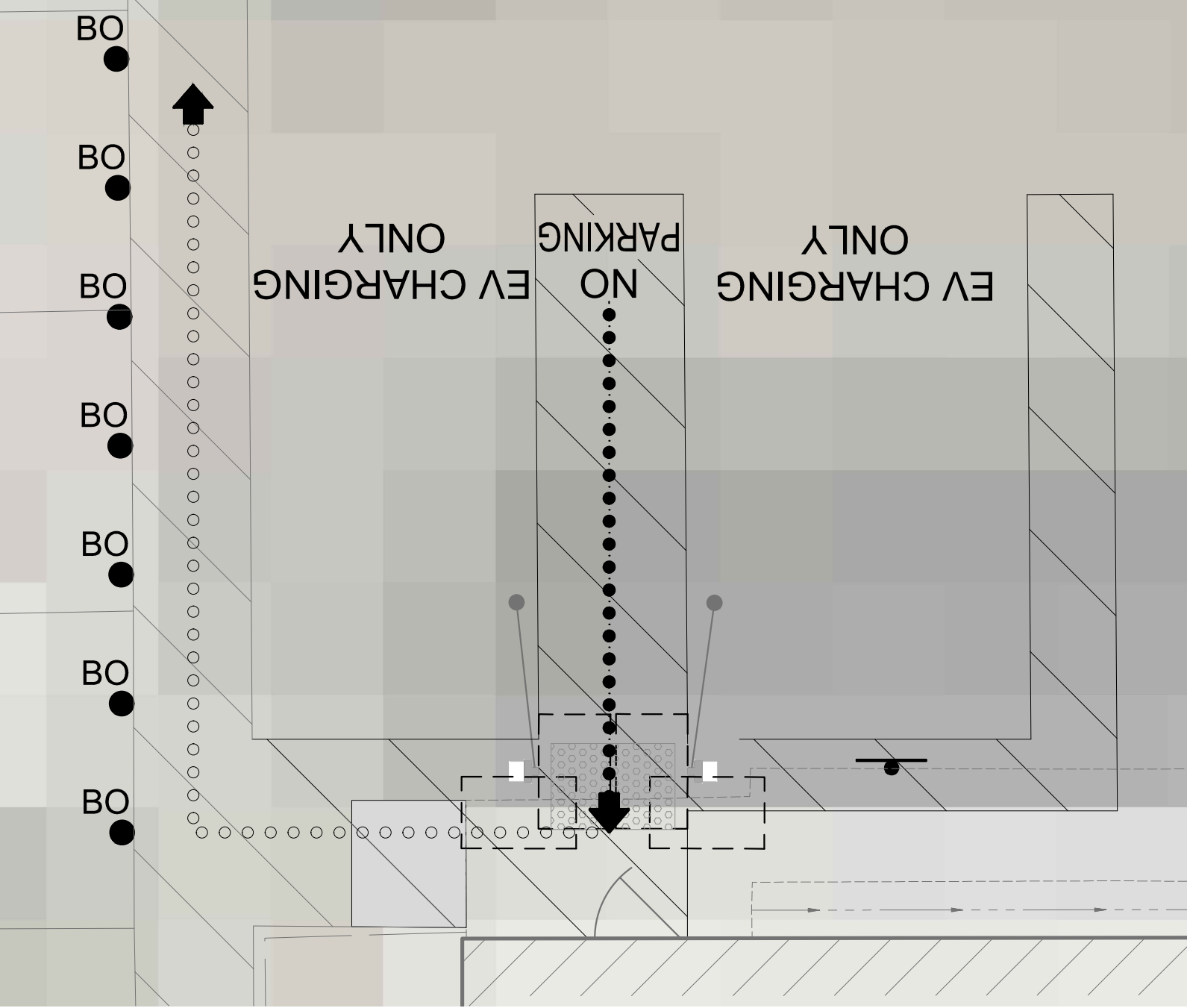


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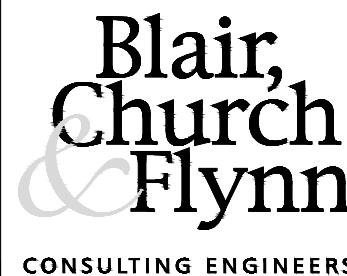



- SYMBOL LEGEND:**
- EXISTING PROPERTY LINE
  - EXISTING PATH OF TRAVEL
  - PROPOSED ACCESSIBLE ROUTE IN COMPLIANCE WITH CBC 2016
  - AREA OF WORK

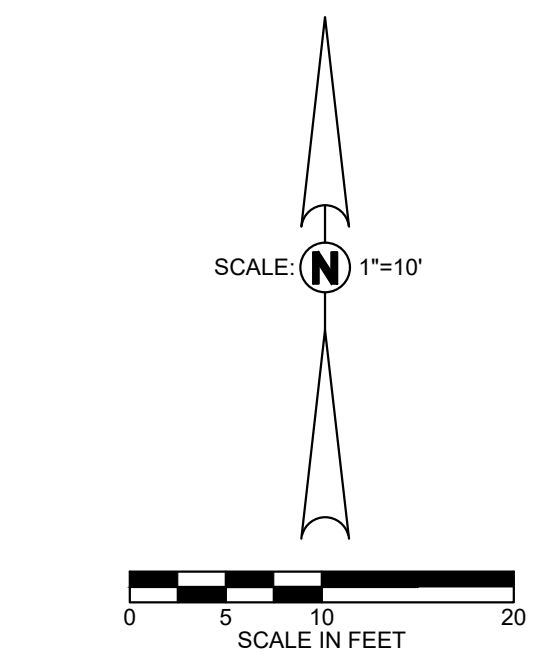
- ACCESSIBLE NOTES:**
- ENGINEER HAS SURVEYED/INSPECTED THE PATH OF TRAVEL (P.O.T.) AS INDICATED ON THE PLANS AND HAS FOUND IT TO BE, OR HAS INDICATED ON THE PLANS REMEDIAL WORK WHICH WOULD CAUSE IT TO BE, A BARRIER FREE ACCESSIBLE ROUTE:
- AT LEAST 48" IN WIDTH; OR AS APPROVED BY CODE.
  - WITHOUT ABRUPT LEVEL CHANGES EXCEEDING 1/2" IF BEVELED AT 1:2 MAXIMUM SLOPE, OR VERTICAL, LEVEL CHANGES EXCEEDING 1/4".
  - WITH A FIRM, STABLE, AND SLIP RESISTANT WALKING SURFACE;
  - WITH A RUNNING SLOPE OF 1:20 OR LESS, UNLESS OTHERWISE INDICATED, AND A CROSS SLOPE OF 1:50 OR LESS;
  - IS FREE OF OVERHEAD OBSTRUCTIONS WITHIN 80" ABOVE THE WALKING SURFACE; AND
  - IS FREE OF OBJECTS WHICH PROTRUDE MORE THAN 4" BETWEEN THE HEIGHTS OF 27" AND 80" ABOVE THE WALKING SURFACE.



**A ACCESSIBILITY PLAN**  
1" = 5'-0"

PROJECT LOCATION: 2492 W. SAN BERNARDINO AVE, REDLANDS, CA 92374				220-0213	
 CONSULTING ENGINEERS	 Date Signed: _____	CONSULTANT	REF. & REV.	SOUTHERN CALIFORNIA EDISON	
				TSD FLEET EV CHARGING PROGRAM MOUNTAIN VIEW GENERATION STATION OVERALL SITE PLAN	
				C1.0	
				DR. BY: SL CH. BY: CS DATE: 03/24/2021 SCALE AS NOTED	SHEET NO. 2 OF 16 SHEETS





AC	ASPHALT CONCRETE
ACE	ASPHALT CONCRETE EDGE
BG1ST	BEGIN STEP
BW	BLOCK WALL
CE	CONCRETE EDGE
DG	DECOMPOSED GRANITE
GB	GRADE BREAK
SB	SPEED BUMP
SDGR	STORM DRAIN GRATE
TOP	TOP OF SLOPE
VGFL	VALLEY GUTTER FLOWLINE
VGR	VALLEY GUTTER
(BM1109.87)	BENCHMARK
(1109.80)	EXISTING ELEVATION
1108.96	SURVEY CONTROL POINT
o BO	BOLLARD
□ ECA	ELECTRICAL CABINET
□ EPB	ELECTRICAL PULL BOX
□ ET	ELECTRICAL TRANSFORMER
⊕	ELECTRICAL MANHOLE
□ EPA	ELECTRICAL PANEL
o ELR	ELECTRICAL RISER
o HB	HOSE BIB
INTERNATIONAL SYMBOL OF ACCESSIBILITY	
□ ICB	IRRIGATION CONTROLLER
LP	LIGHT POST
o RD	ROOF DRAIN
o RS	ROOF SUPPORT
STORM DRAIN GRATE	
o CO	SEWER CLEANOUT
⊕	SEWER MANHOLE
FDC	WATER FIRE DEPARTMENT CONNECTION
W	WATER METER
⊕ WV	WATER VALVE
o WRI	WATER RISER
WP	WELL PUMP
□ □ □	WHEELSTOP
EXISTING ASPHALT CONCRETE PAVEMENT	
EXISTING BUILDING	
EXISTING CONCRETE	
EXISTING DECOMPOSED GRANITE	
CHAIN LINK FENCE	
BUILDING OVERHANG	
DIRECTION OF FLOW	
EDGE OF ASPHALT CONCRETE PAVEMENT	
ELECTRICAL LINE	
GRADE BREAK	
STRIPING	

Drawing: \\c6f6505\Project\220-0213\Stielmountain View Generation\CD Phase\production\drawings\220-0213\_MVG\_tso1.dwg; 3 Topographic Survey; L1 - BC/F.ctb

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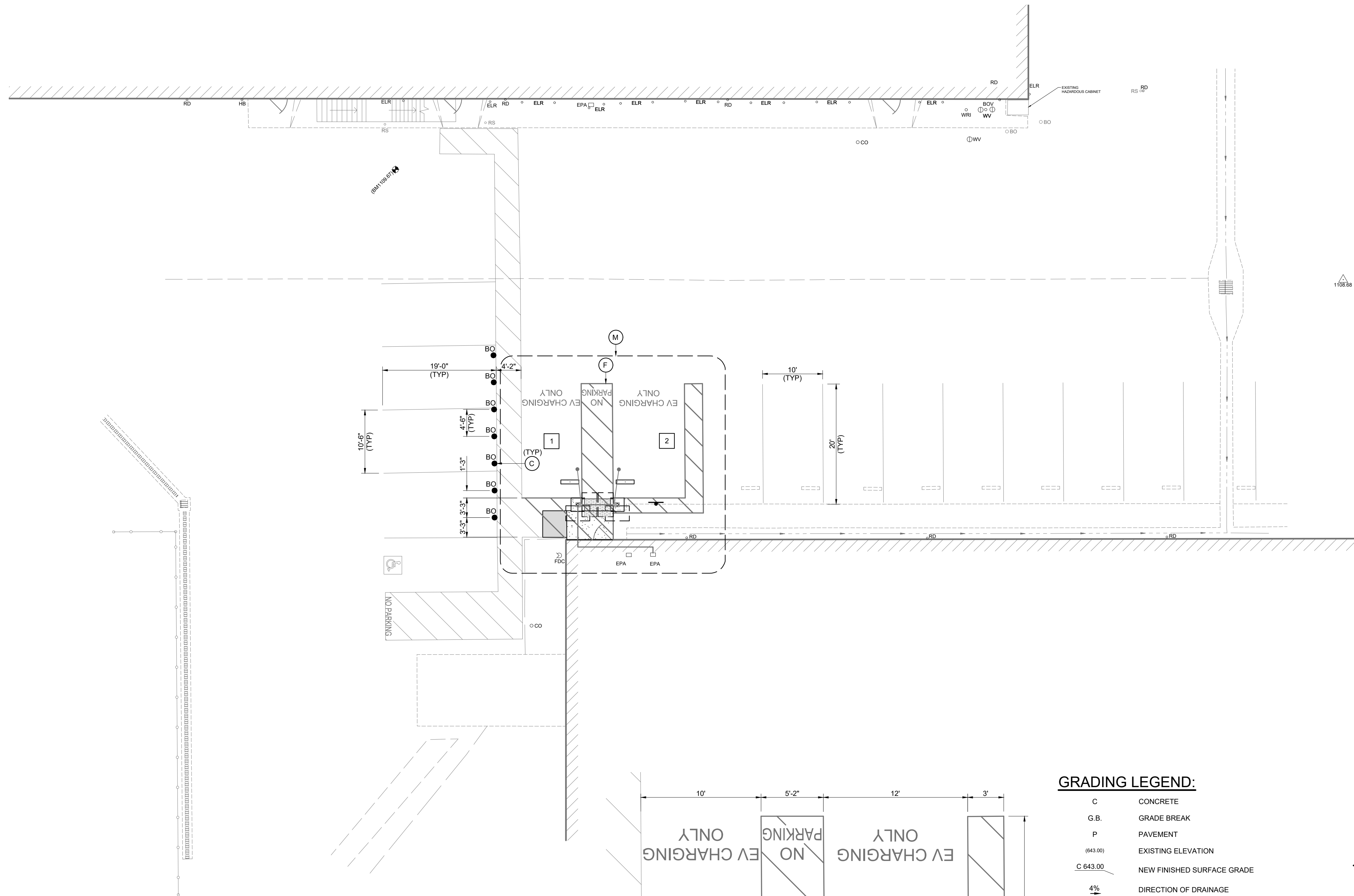
SOUTHERN CALIFORNIA EDISON						
TSD FLEET EV CHARGING PROGRAM MOUNTAIN VIEW GENERATION STATION TOPOGRAPHIC SURVEY	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center; padding: 5px;">C2.0</td> </tr> <tr> <td style="width: 50%; padding: 5px;">                     DR BY: SL                      CH BY: CS                      DATE: 03/24/2021                 </td> <td style="width: 50%; padding: 5px; text-align: center;">                     SHEET OF                 </td> </tr> </table>		C2.0		DR BY: SL CH BY: CS DATE: 03/24/2021	SHEET OF
C2.0						
DR BY: SL CH BY: CS DATE: 03/24/2021	SHEET OF					

<b>C2.0</b>	
DR. BY: <u>SL</u> CH. BY: <u>CS</u> DATE: <u>03/24/2021</u> SCALE AS NOTED	SHEET NO. <u>3</u> OF <u>16</u> SHEETS

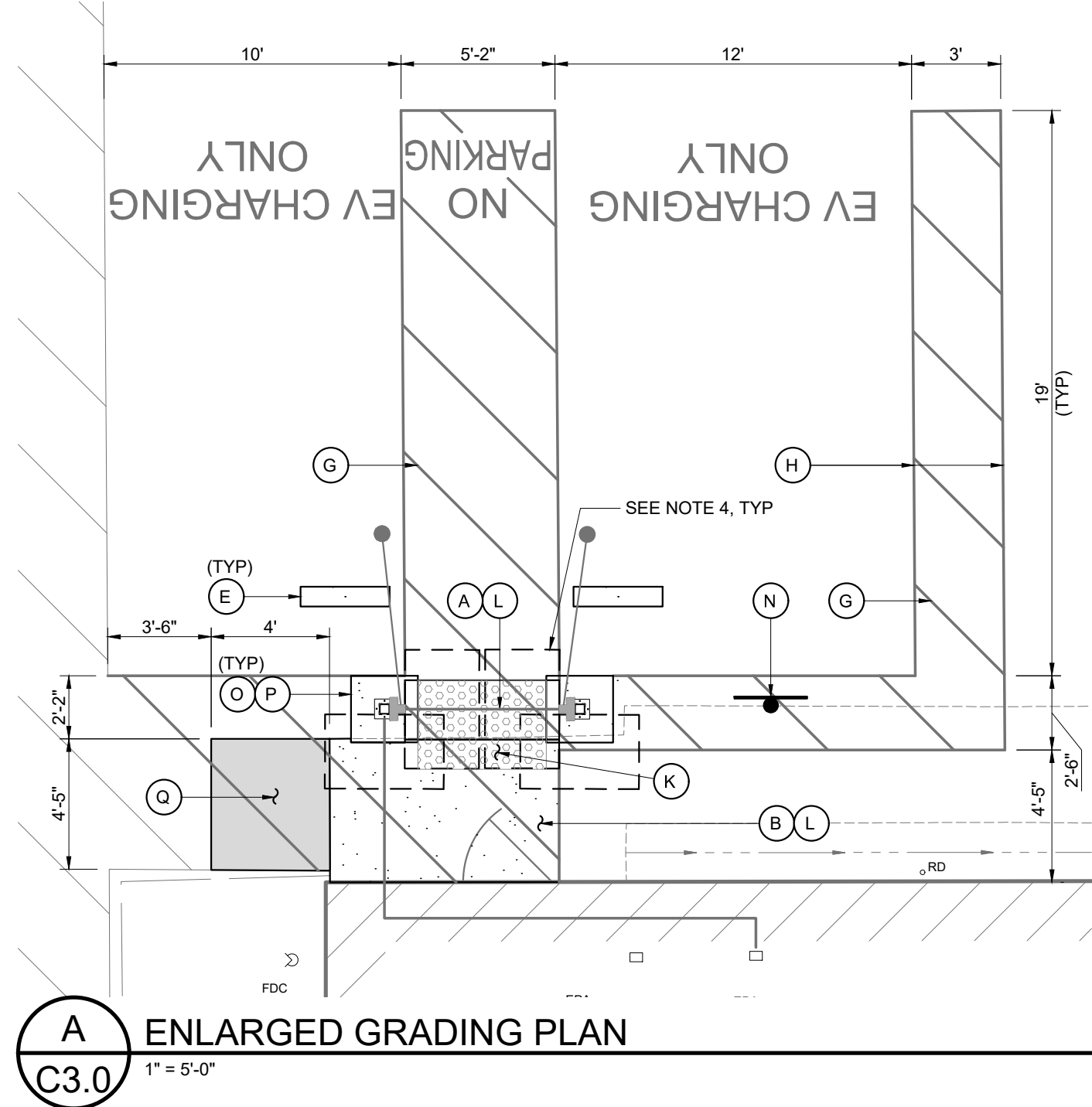








LOCATION 1



GRADING LEGEND:

- C CONCRETE
- G.B. GRADE BREAK
- P PAVEMENT
- (643.00) EXISTING ELEVATION
- C 643.00 NEW FINISHED SURFACE GRADE
- 4% DIRECTION OF DRAINAGE
- DIRECTION OF FLOW

CONSTRUCTION LEGEND:

- (A) 2' WIDE ELECTRICAL UTILITY TRENCH. TRENCH, BACKFILL AND RESURFACING PER DETAIL [C/E2.0]
- (B) CONSTRUCT CONCRETE SIDEWALK PER DETAIL [F/C4.0]
- (C) FURNISH AND INSTALL FIXED BOLLARDS PER DETAIL [C/C4.0]
- (D) FURNISH AND INSTALL SERVICE EQUIPMENT BOLLARDS PER DETAIL [E/C4.0]
- (E) FURNISH AND INSTALL CONCRETE WHEELSTOPS PER DETAIL [B/C4.0]
- (F) FURNISH, INSTALL AND PAINT ACCESSIBLE EV CHARGING STALLS PER DETAIL [A/C4.0]
- (G) PAINT 4" WIDE WHITE PERIMETER LINE WITH 4" WIDE WHITE DIAGONAL LINES AT 3' ON CENTER
- (H) PAINT 4" WIDE WHITE STRIPE
- (I) CONSTRUCT EQUIPMENT PAD PER DETAIL [I/C4.0]. EQUIPMENT PAD SHALL BE POURED FLUSH WITH ADJACENT IMPROVEMENTS
- (J) CONSTRUCT CHARGER CONCRETE PAD PER DETAILS [B/E2.1]
- (K) FURNISH AND INSTALL TRUNCATED DOMES PER DETAIL [H/C4.0]
- (L) SEE ELECTRICAL CONDUIT PLAN FOR ADDITIONAL ELECTRICAL IMPROVEMENTS
- (M) SEE ENLARGED GRADING PLAN PER DETAIL [A/C3.0]
- (N) FURNISH AND INSTALL FIXED ACCESSIBLE CHARGING SIGN PER DETAIL [J/C4.0]
- (O) CONSTRUCT CHARGER CONCRETE PAD AND APPURTENANCES PER DETAILS [D/E2.0].
- (P) INSTALL EVSE LLC 3725 PAYMENT MODULE ON EVSE PEDESTAL PER MANUFACTURER INSTRUCTIONS. SEE DETAIL [B/R1.1]
- (Q) CONSTRUCT ASPHALT CONCRETE PAVEMENT PER DETAIL [G/C4.0]
- (R) FURNISH AND INSTALL ANCHORED BOLLARDS PER DETAIL [D/C4.0]
- (S) PROPOSED EVSE LLC [EVSE MODEL 3703] 30A DUAL CHARGE PORT STYLE CHARGERS TO BE INSTALLED, SEE DETAIL [A/R1.1].
- (T) PROPOSED CLIPPERCREEK [MODEL CS-40] SINGLE CHARGE PORT STYLE CHARGERS. SEE DETAIL [A/R1.0]
- PROPOSED WHITE STRIPING IMPROVEMENTS
- LIMITS OF ASPHALT CONCRETE PAVEMENT IMPROVEMENTS
- LIMITS OF CONCRETE IMPROVEMENTS

NOTES:

- SEE GENERAL GRADING AND DRAINAGE NOTES ON SHEET 1.
- ACCESSIBLE EV CHARGING STALLS TO COMPLY WITH CBC 11B-812.
- OPERABLE PARTS AND CHARGING CORD SHALL COMPLY WITH 2019 CBC 11B-309.
- 48"X30" CLEAR GROUND SPACE FROM FRONT FACE OF CHARGER WITH MAXIMUM 2% SURFACE SLOPE IN ALL DIRECTIONS.
- ALL OPERABLE PARTS AND CONTROLS SHALL BE 15 TO 48 INCHES ABOVE THE CLEAR GROUND SPACE FOR BOTH FORWARD AND SIDE APPROACHES PER 2019 CBC 11B-308. SEE SHEET R1.0 AND R1.1 FOR CHARGER ELEVATIONS.
- OPERABLE PARTS ON ALL ACCESSIBLE EV CHARGERS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST.
- MAXIMUM OF 2% SURFACE SLOPE IN ALL DIRECTIONS AT ACCESSIBLE STALLS AND ACCESS AISLES.
- LOCATION OF CHARGER SHALL NOT EXCEED 36 INCHES MAXIMUM FROM THE HEAD END OF THE ACCESS AISLE PER 2019 CBC 11B-812.10.4 EXCEPTION 2.

PROPOSED CHARGING FOR EMPLOYEE PARKING		
PEDESTAL #	STALL/CHARGE PORT #	CHARGE PORT TYPE
1	1	STANDARD ACCESSIBLE
2	2	VAN ACCESSIBLE

PROJECT LOCATION: 2492 W. SAN BERNARDINO AVE, REDLANDS, CA 92374

220-0213

Blair,  
Church & Flynn  
CONSULTING ENGINEERS



CONSULTANT  
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Consulting Engineers  
481 Clovis Avenue,  
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Tel (559) 326-1400  
Fax (559) 326-1500

REF. & REV.

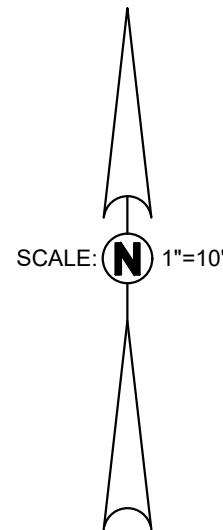
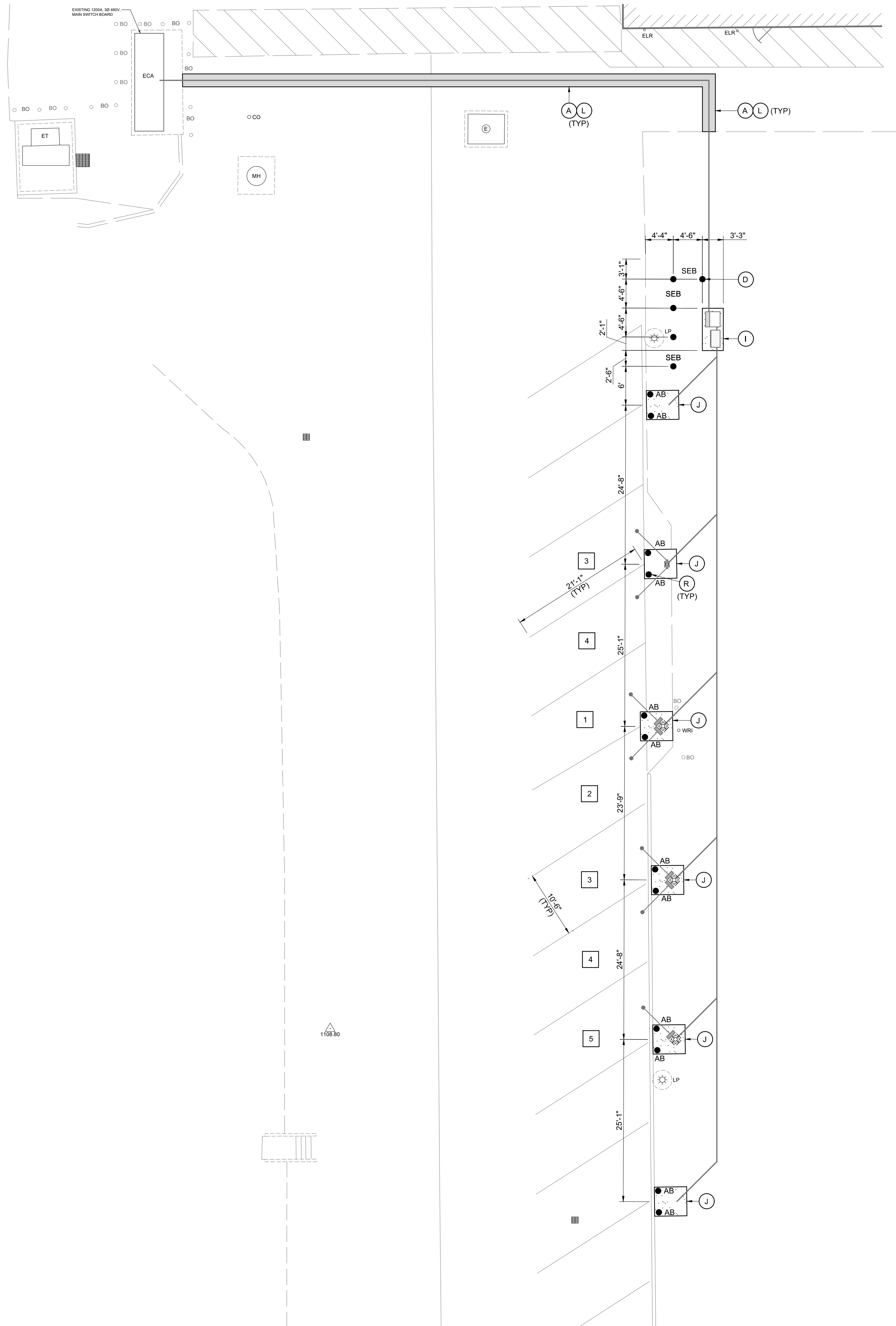
SOUTHERN CALIFORNIA EDISON

TSD FLEET EV CHARGING PROGRAM  
MOUNTAIN VIEW GENERATION STATION  
SITE AND GRADING PLAN

C3.0

DR. BY: SL  
CH. BY: CS  
DATE: 03/24/2021  
SCALE: AS NOTED  
SHEET NO. 5  
OF 16 SHEETS





SCALE IN FEET  
0 5 10 20

**CONSTRUCTION LEGEND:**

(SEE CONSTRUCTION LEGEND ON SHEET C3.0)

PROPOSED CHARGING FOR FLEET PARKING			
PEDESTAL #	STALL/CHARGE PORT #		CHARGE PORT TYPE
1	1	2	FLEET
2	3	4	FLEET
3	5		FLEET

PROPOSED CHARGING FOR EMPLOYEE PARKING			
PEDESTAL #	STALL/CHARGE PORT #		CHARGE PORT TYPE
3	3	4	STANDARD

LOCATION 2

PROJECT LOCATION: 2492 W. SAN BERNARDINO AVE, REDLANDS, CA 92374

220-0213

**Blair,  
Church  
& Flynn**  
CONSULTING ENGINEERS



Date Signed: \_\_\_\_\_

CONSULTANT  
**Blair, Church & Flynn**  
Consulting Engineers  
4851 Clovis Avenue,  
Suite 300  
Clovis, California 93612  
Tel (559) 326-1400  
Fax (559) 326-1500

REF. & REV.

**SOUTHERN CALIFORNIA EDISON**

TSD FLEET EV CHARGING PROGRAM  
MOUNTAIN VIEW GENERATION STATION  
**SITE PLAN**

C3.1

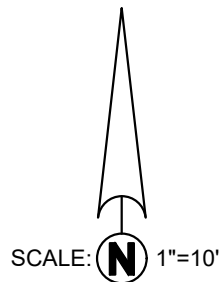
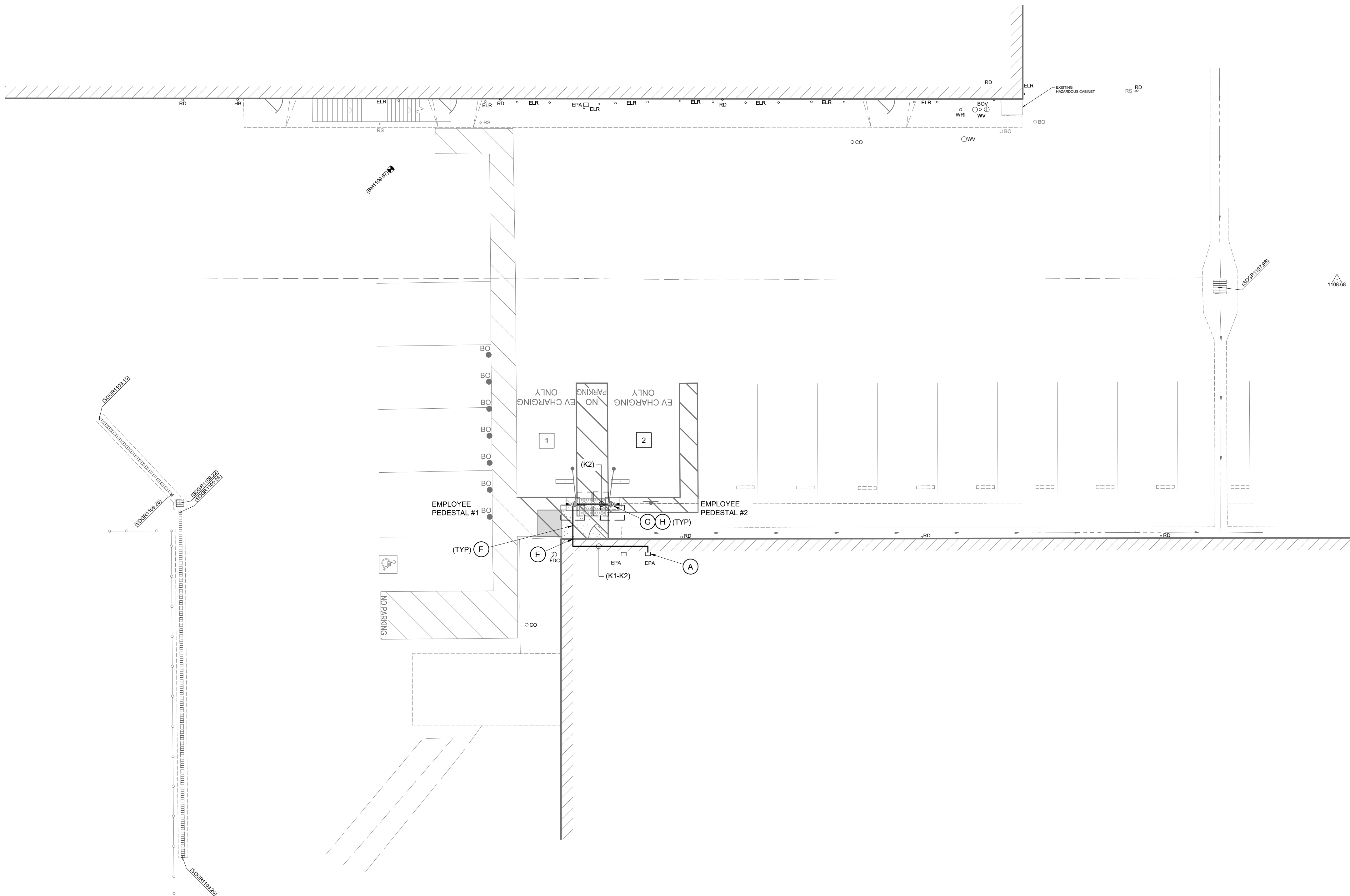
DR. BY: SL  
CH. BY: CS  
DATE: 03/24/2021  
SCALE AS NOTED

SHEET NO. **6**  
OF **16** SHEETS









**ELECTRICAL LEGEND:**

- (A) EXISTING 208Y/120V, 100 AMP DISTRIBUTION PANEL "LE"
- (B) EXISTING 480Y/277V, 1200 AMP MAIN SWITCHBOARD
- (C) FURNISH AND INSTALL 208Y/120, 400 AMP, 3Ø, 4W, DISTRIBUTION PANEL "EV" PER DETAILS [A/E2.0] AND [E/E3.0]
- (D) FURNISH AND INSTALL 75KVA STEP DOWN TRANSFORMER PER DETAILS [A/E2.0] AND [A/E3.1]
- (E) SEE DETAIL(S) [B/E2.0] FOR THE FURNISHING AND INSTALLATION OF ABOVE GRADE RMC CONDUIT. SEE CONDUIT SCHEDULE FOR COUNT AND CONDUIT SIZE
- (F) SEE DETAIL [C/E2.0] FOR THE FURNISHING AND INSTALLATION OF BELOW GRADE PVC CONDUIT. SEE CONDUIT SCHEDULE FOR COUNT AND CONDUIT SIZE
- (G) CONSTRUCT EVSE LLC 3703 EMPLOYEE CHARGER CONCRETE PAD AND APPURTENANCES PER DETAILS [D/E2.0] AND [E/E2.0]
- (H) INSTALL EVSE LLC 3725 PAYMENT MODULE ON EVSE PEDESTAL PER MANUFACTURER INSTRUCTIONS. SEE DETAIL [B/R1.0]
- (I) CONSTRUCT CHARGER CONCRETE PAD PER DETAILS [A/E2.1] AND [B/E2.1]
- (J) GROUND ROD 12" (MIN) BELOW SURFACE
- [Symbol] PROPOSED DISTRIBUTION PANEL "EV"
- [Symbol] PROPOSED STEP DOWN TRANSFORMER
- [Symbol] GROUND ACCESS WELL AND 5/8" X 8" COPPER CLAD GROUND ROD
- [Symbol] PROPOSED EVSE LLC [EVSE MODEL 3703] 30A DUAL CHARGE PORT STYLE CHARGERS TO BE INSTALLED. SEE DETAIL [A/R1.1].
- [Symbol] PROPOSED CLIPPERCREEK [MODEL CS-40] SINGLE CHARGE PORT STYLE CHARGERS. SEE DETAIL [A/R1.0]
- BURIED BARE COPPER GROUND WIRE
- ELECTRICAL CONDUIT, SIZE AND COUNT AS NOTED

**ELECTRICAL NOTES:**

- ELECTRICAL UTILITY LINE TO BE PROTECTED IN PLACE WHEN POSSIBLE. IF EXISTING LINES INTRODUCE EXCESSIVE CONSTRAINTS DURING THE INSTALLATION OF THE ELECTRICAL EQUIPMENT, REMOVE AND RELOCATE EXISTING LINES AS NEEDED, USING THE PROPOSED UTILITY TRENCH. IF THE ELECTRICAL LINE CANNOT BE SALVAGED THE CONTRACTOR MUST LAWFULLY DISPOSE OF THE ELECTRICAL LINE AND REPLACE WITH LIKE-IN-KIND.
- ALL ELECTRICAL POWER IN CLOSE PROXIMITY TO THE INSTALLATION OF THE ELECTRICAL EQUIPMENT MUST BE POWERED OFF PRIOR TO THE START OF CONSTRUCTION, TO PREVENT ANY ELECTRICAL INJURIES.
- HAND DIG ALL UTILITIES IN CLOSE PROXIMITY TO THE INSTALLATION OF THE ELECTRICAL EQUIPMENT TO AVOID DAMAGING ANY UTILITY LINE.
- SEE SINGLE LINE DIAGRAM ON SHEET E3.0.
- SEE CONDUIT SCHEDULE FOR WIRE SIZE, CONDUIT FILL AND WIRE TAGS.
- THE METHODS CONTAINED IN CEC/NEC ARTICLE 250 SHALL BE FOLLOWED TO COMPLY WITH GROUNDING AND BONDING OF ELECTRICAL SYSTEMS AND NON-CURRENT CARRYING CONDUCTIVE MATERIALS, ENCLOSURES, OR ITEMS FORMING PART OF ANY SUCH EQUIPMENT THAT ENCLOSES OR CARRIES ELECTRICAL CONDUCTOR OR EQUIPMENT THAT IS LIKELY TO BECOME ENERGIZED. SEE CEC/NEC 250.4(A)(1) THROUGH (5) FOR FURTHER DESCRIPTION.
- WHERE TWO OR MORE GROUND RODS ARE TO BE INSTALLED, THE MINIMUM SEPARATION SHALL BE 6' PER CEC/NEC 250.53 (A)(2), AND (3) RESISTANCE OF ELECTRODES.
- MINIMUM CONDUIT BURIAL DEPTH SHALL BE 24".
- PER CEC/NEC 110.26 "ACCESS AND WORKING SPACE SHALL BE PROVIDED AND MAINTAINED ABOUT ALL ELECTRICAL EQUIPMENT TO PERMIT READY AND SAFE OPERATION AND MAINTENANCE OF SUCH EQUIPMENT."
- CONDUIT BODIES AND PULLBOXES SHALL BE USED AS NEEDED TO MAINTAIN LESS THAN 360° OF CONDUIT BENDS BETWEEN PULL POINTS.
- ALL ABOVE GRADE CONDUIT CONSTRUCTION SHALL FOLLOW CEC/NEC 342, 344 OR 350 FOR IMC, RMC, OR LFMC CONSTRUCTION.

**LOCATION 1**

CONDUIT SCHEDULE					
CONDUIT NUMBER	FROM	TO	CONDUCTORS ALL 90°C THWN-2 OR SIMILAR UNLESS NOTED OTHERWISE	CONDUIT SIZE AND TYPE	COMMENTS
K1	(EXISTING) DISTRIBUTION PANEL "LE"	EMPLOYEE PEDESTAL #1 (EMPLOYEE PORT 1)	SOUTHWIRE, (4) #8 AWG CU, (2) #8 AWG CU GRN GROUND, TAGGED EMPLOYEE PEDESTAL #1 (L1,L2, GROUND)	2" PVC	PROPOSED WIRING FOR EMPLOYEE CHARGERS
K2	(EXISTING) DISTRIBUTION PANEL "LE"	EMPLOYEE PEDESTAL #2 (EMPLOYEE PORT 2)	SOUTHWIRE, (4) #8 AWG CU, (2) #8 AWG CU GRN GROUND, TAGGED EMPLOYEE PEDESTAL #1 (L1,L2, GROUND)	2" PVC	PROPOSED WIRING FOR EMPLOYEE CHARGERS

**A E1.0 CONDUIT SCHEDULE**

PROJECT LOCATION: 2492 W. SAN BERNARDINO AVE, REDLANDS, CA 92374

220-0213



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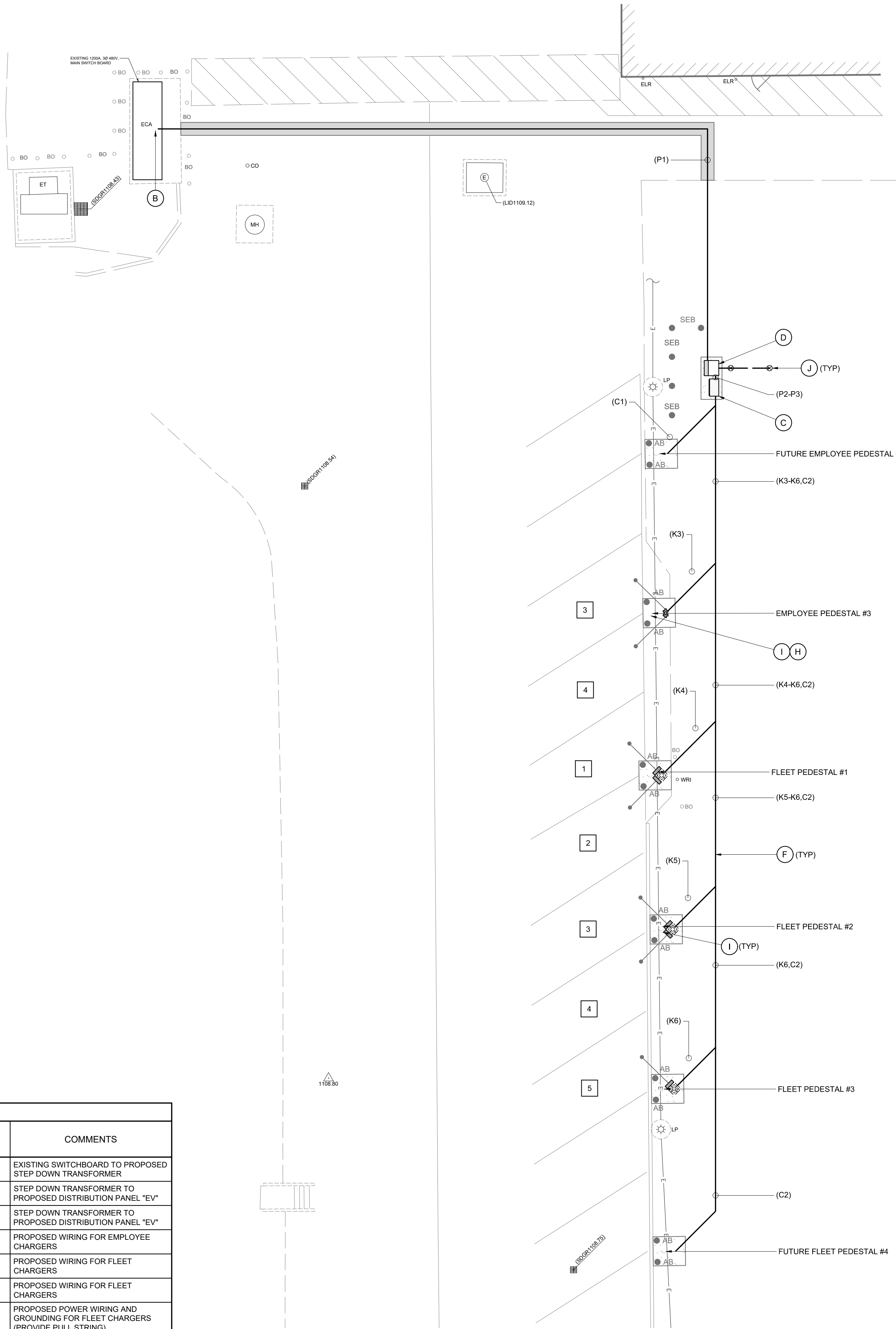
**SOUTHERN CALIFORNIA EDISON**

TSD FLEET EV CHARGING PROGRAM  
MOUNTAIN VIEW GENERATION STATION  
ELECTRICAL CONDUIT PLAN

**E1.0**

DR. BY: SL  
CH. BY: CS  
DATE: 03/24/2021  
SCALE AS NOTED  
SHEET NO. 8  
OF 16 SHEETS





**ELECTRICAL LEGEND:**

- (A) EXISTING 208Y/120V, 100 AMP DISTRIBUTION PANEL "LE"
- (B) EXISTING 480Y/277V, 1200 AMP MAIN SWITCHBOARD
- (C) FURNISH AND INSTALL 208Y/120, 400 AMP, 3Ø, 4W, DISTRIBUTION PANEL "EV" PER DETAILS [A/E2.0] AND [E/E3.0]
- (D) FURNISH AND INSTALL 112.5KVA STEP DOWN TRANSFORMER PER DETAILS [A/E2.0] AND [A/E3.1]
- (E) SEE DETAIL(S) [B/E2.0] FOR THE FURNISHING AND INSTALLATION OF ABOVE GRADE RMC CONDUIT. SEE CONDUIT SCHEDULE FOR COUNT AND CONDUIT SIZE
- (F) SEE DETAIL [C/E2.0] FOR THE FURNISHING AND INSTALLATION OF BELOW GRADE PVC CONDUIT. SEE CONDUIT SCHEDULE FOR COUNT AND CONDUIT SIZE
- (G) CONSTRUCT EVSE LLC 3703 EMPLOYEE CHARGER CONCRETE PAD AND APPURTENANCES PER MANUFACTURER INSTRUCTIONS PER DETAILS [D/E2.0] AND [E/E2.0]
- (H) INSTALL EVSE LLC 3725 PAYMENT MODULE ON EVSE PEDESTAL PER MANUFACTURER INSTRUCTIONS. SEE DETAIL [B/R1.0]
- (I) CONSTRUCT CHARGER CONCRETE PAD PER DETAIL [B/E2.1]
- (J) GROUND ROD 12" (MIN) BELOW SURFACE
- [Symbol] PROPOSED DISTRIBUTION PANEL "EV"
- [Symbol] PROPOSED STEP DOWN TRANSFORMER
- [Symbol] GROUND ACCESS WELL AND 5/8" X 8' COPPER CLAD GROUND ROD
- [Symbol] PROPOSED EVSE LLC [EVSE MODEL 3703] 30A DUAL CHARGE PORT STYLE CHARGERS TO BE INSTALLED. SEE DETAIL [A/R1.1]
- [Symbol] PROPOSED CLIPPERCREEK [MODEL CS-40] SINGLE CHARGE PORT STYLE CHARGERS. SEE DETAIL [A/R1.0]
- BURIED BARE COPPER GROUND WIRE
- ELECTRICAL CONDUIT, SIZE AND COUNT AS NOTED

**LOCATION2**

CONDUIT SCHEDULE					
CONDUIT NUMBER	FROM	TO	CONDUCTORS ALL 90°C THWN-2 OR SIMILAR UNLESS NOTED OTHERWISE	CONDUIT SIZE AND TYPE	COMMENTS
P1	(EXISTING) SWITCHBOARD	(PROPOSED) STEP DOWN TRANSFORMER	SOUTHWIRE (3) #3/0 AWG, (1) #2 AWG GRN GROUND, TAGGED (H1/H2/H3/GND)	2" PVC	EXISTING SWITCHBOARD TO PROPOSED STEP DOWN TRANSFORMER
P2	(PROPOSED) STEP DOWN TRANSFORMER	(PROPOSED) DISTRIBUTION PANEL "EV"	SOUTHWIRE (4) #3/0 AWG, (1) #2 AWG GRN GROUND, TAGGED (X0/X1/X2/X3/GND)	3" RMC	STEP DOWN TRANSFORMER TO PROPOSED DISTRIBUTION PANEL "EV"
P3	(PROPOSED) STEP DOWN TRANSFORMER	(PROPOSED) DISTRIBUTION PANEL "EV"	SOUTHWIRE (4) #3/0 AWG, (1) #2 AWG GRN GROUND, TAGGED (X0/X1/X2/X3/GND)	3" RMC	STEP DOWN TRANSFORMER TO PROPOSED DISTRIBUTION PANEL "EV"
K3	(PROPOSED) DISTRIBUTION PANEL "EV"	EMPLOYEE PEDESTAL #3 (EMPLOYEE PORTS 3 & 4)	SOUTHWIRE, (4) #8 AWG CU, (2) #8 AWG CU GRN GROUND, TAGGED EMPLOYEE PEDESTAL #1 (L1,L2, GROUND)	2" PVC	PROPOSED WIRING FOR EMPLOYEE CHARGERS
K4	(PROPOSED) DISTRIBUTION PANEL "EV"	FLEET PEDESTAL #1 (FLEET PORTS 1 & 2)	SOUTHWIRE, (4) #8 AWG CU, (2) #8 AWG CU GRN GROUND, TAGGED FLEET PEDESTAL #1 (L1,L2, GROUND)	2" PVC	PROPOSED WIRING FOR FLEET CHARGERS
K5	(PROPOSED) DISTRIBUTION PANEL "EV"	FLEET PEDESTAL #2 (FLEET PORTS 3 & 4)	SOUTHWIRE, (4) #8 AWG CU, (2) #8 AWG CU GRN GROUND, TAGGED FLEET PEDESTAL #1 (L1,L2, GROUND)	2" PVC	PROPOSED WIRING FOR FLEET CHARGERS
K6	(PROPOSED) DISTRIBUTION PANEL "EV"	FLEET PEDESTAL #3 (FLEET PORT 5)	SOUTHWIRE, (2) #6 AWG CU, (1) #6 AWG CU GRN GROUND, TAGGED FLEET PEDESTAL #1 (L1,L2, GROUND)	2" PVC	PROPOSED POWER WIRING AND GROUNDING FOR FLEET CHARGERS (PROVIDE PULL STRING)
C1	(PROPOSED) DISTRIBUTION PANEL "EV"	FUTURE EMPLOYEE PEDESTAL #4	(EMPTY CONDUIT)	2" PVC	CONDUIT FOR FUTURE EVSE (PROVIDE PULL STRING)
C2	(PROPOSED) DISTRIBUTION PANEL "EV"	FUTURE FLEET PEDESTAL #4	(EMPTY CONDUIT)	2" PVC	CONDUIT FOR FUTURE EVSE (PROVIDE PULL STRING)

**A**  
**E1.1** CONDUIT SCHEDULE

PROJECT LOCATION: 2492 W. SAN BERNARDINO AVE, REDLANDS, CA 92374

220-0213

**Blair, Church & Flynn**  
CONSULTING ENGINEERS  
REGISTERED PROFESSIONAL ENGINEERS  
STATE OF CALIFORNIA  
NOT FOR CONSTRUCTION  
Date Signed: \_\_\_\_\_

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**SOUTHERN CALIFORNIA EDISON**

TSD FLEET EV CHARGING PROGRAM  
MOUNTAIN VIEW GENERATION STATION  
ELECTRICAL CONDUIT PLAN

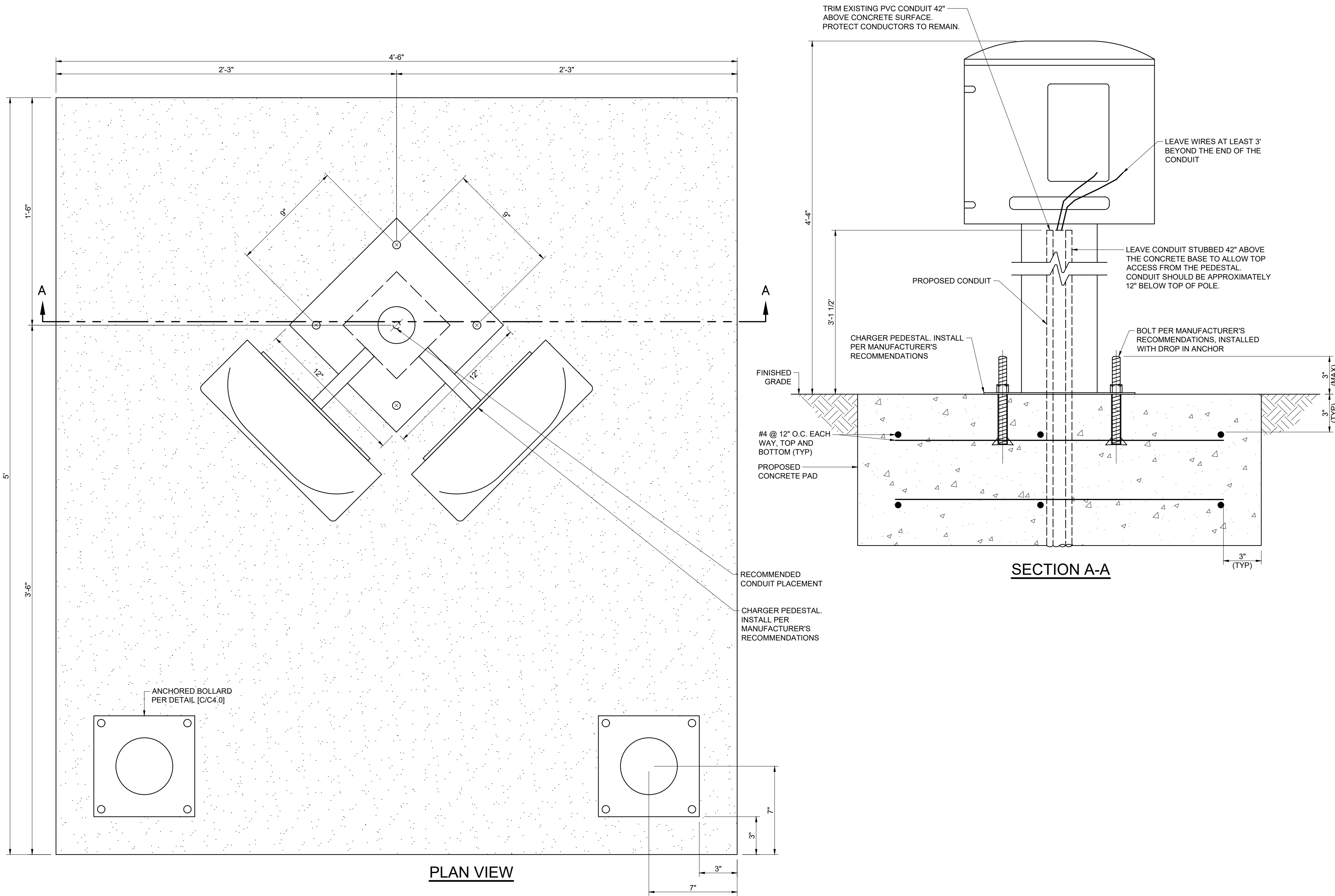
E1.1

DR. BY: SL  
CH. BY: CS  
DATE: 03/24/2021  
SCALE AS NOTED  
SHEET NO. 9  
OF 16 SHEETS

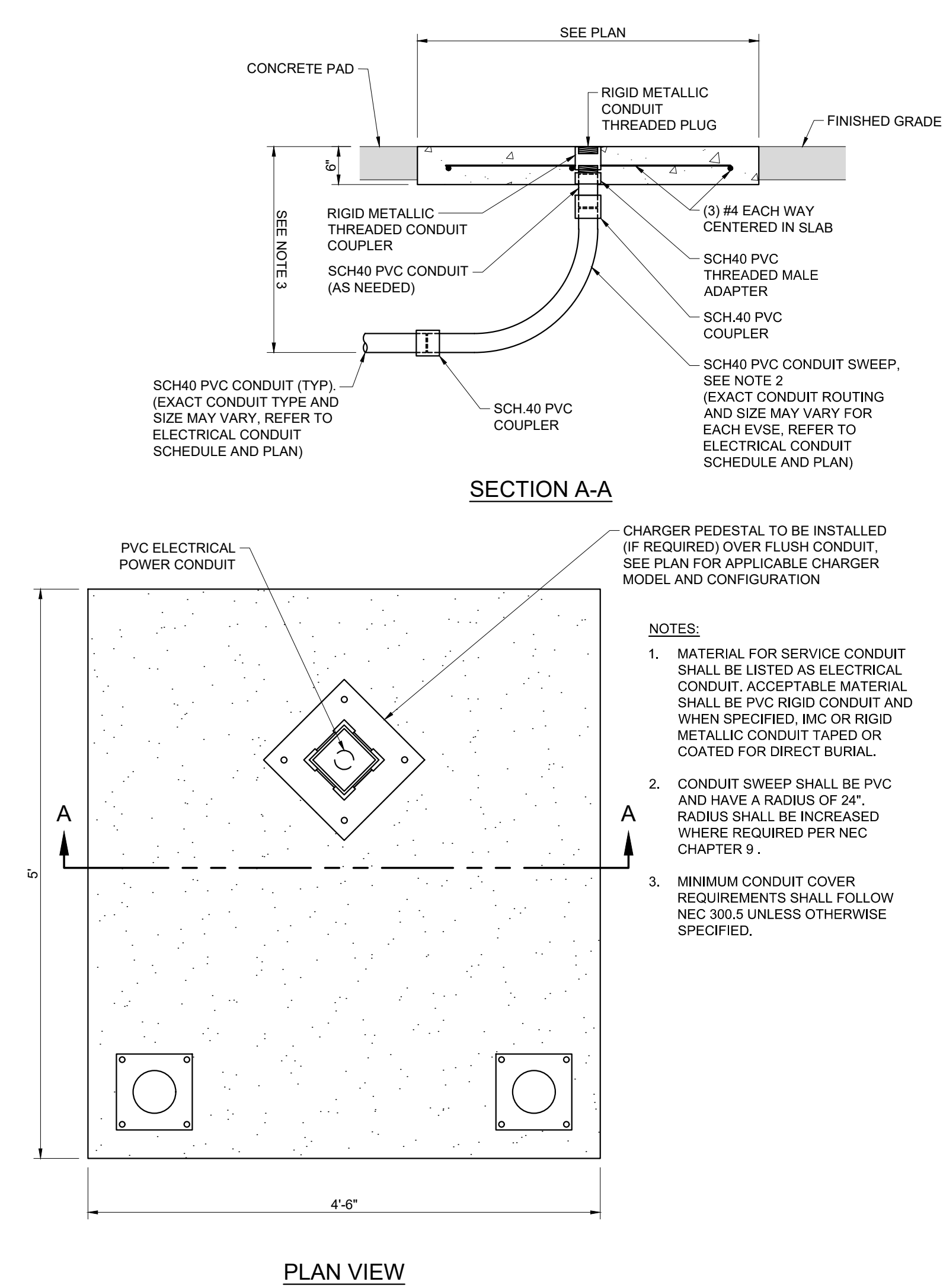








**A**  
**E2.1** TYPICAL CHARGER PAD LAYOUT - LOCATION 1  
NOT TO SCALE



**B**  
**E2.1** CONDUIT STUB AND CAP  
NOT TO SCALE

- NOTES:**
- THE METHODS CONTAINED IN CEC/NEC ARTICLE 250 SHALL BE FOLLOWED TO COMPLY WITH GROUNDING AND BONDING OF ELECTRICAL SYSTEMS AND NON-CURRENT CARRYING CONDUCTIVE MATERIALS, ENCLOSURES, OR ITEMS FORMING PART OF ANY SUCH EQUIPMENT THAT ENCLOSES OR CARRIES ELECTRICAL CONDUCTOR OR EQUIPMENT THAT IS LIKELY TO BECOME ENERGIZED. SEE CEC/NEC 250.4(A)(1) THROUGH (5) FOR FURTHER DESCRIPTION.
  - WHERE TWO OR MORE GROUND RODS ARE TO BE INSTALLED, THE MINIMUM SEPARATION SHALL BE 6' PER CEC/NEC 250.53 (A)(2), AND (3) RESISTANCE OF ELECTRODES.
  - MINIMUM CONDUIT BURIAL DEPTH SHALL BE 24".
  - PER CEC/NEC 110.26 "ACCESS AND WORKING SPACE SHALL BE PROVIDED AND MAINTAINED ABOUT ALL ELECTRICAL EQUIPMENT TO PERMIT READY AND SAFE OPERATION AND MAINTENANCE OF SUCH EQUIPMENT."
  - ALL ABOVE GRADE CONDUIT CONSTRUCTION SHALL FOLLOW CEC/NEC 342, 344 OR 350 FOR IMC, RMC OR LPMC CONSTRUCTION.
  - ALL ELECTRICAL EQUIPMENT SHALL BE LISTED FOR TERMINATION OF ELECTRICAL CONDUCTORS RATED 75°C OR HIGHER.
  - CONTRACTOR TO SCAN FOR REBAR OR OTHER STRUCTURAL SUPPORT PRIOR TO CORE DRILLING OR WALL MOUNTING EQUIPMENT.

PROJECT LOCATION: 2492 W. SAN BERNARDINO AVE, REDLANDS, CA 92374

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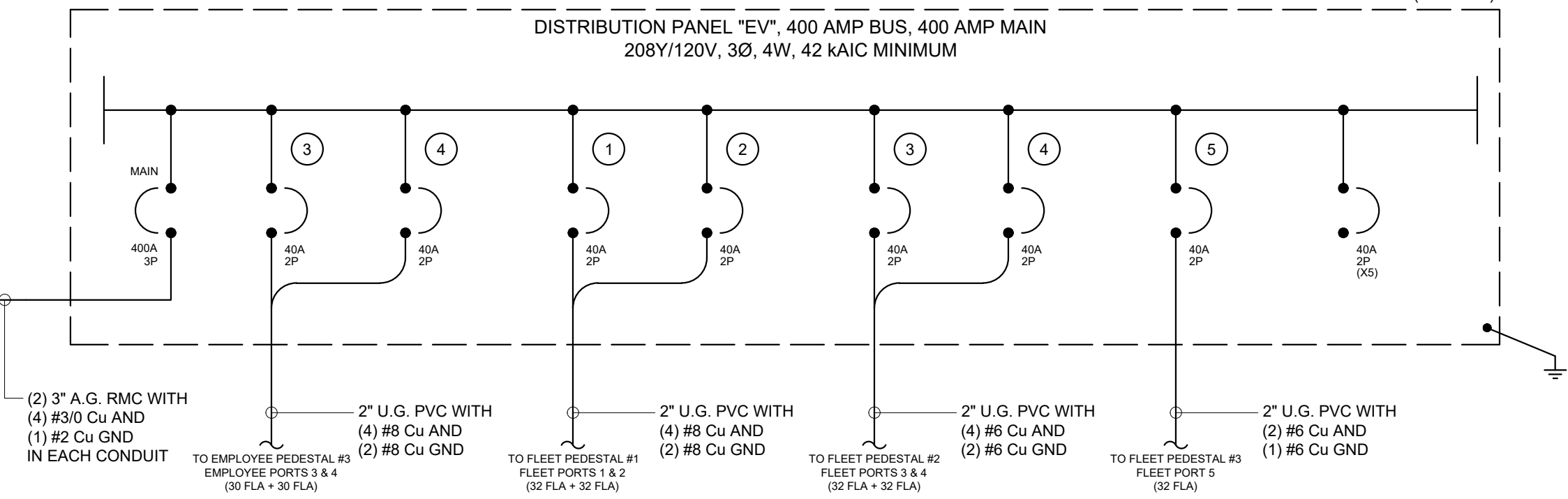
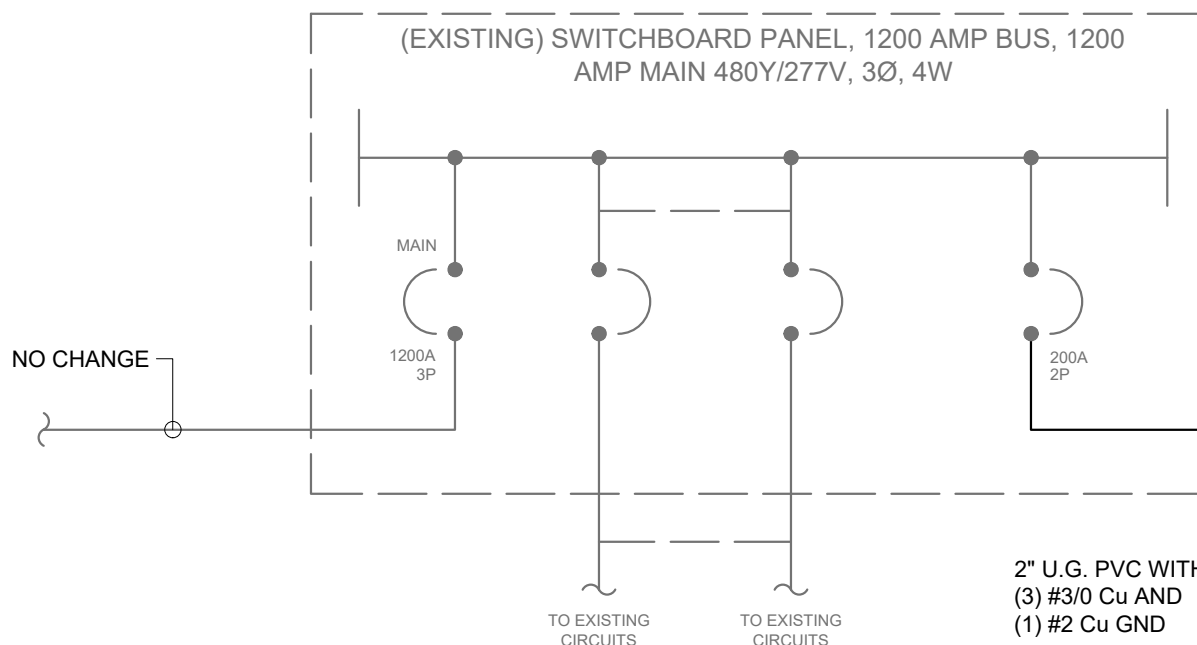
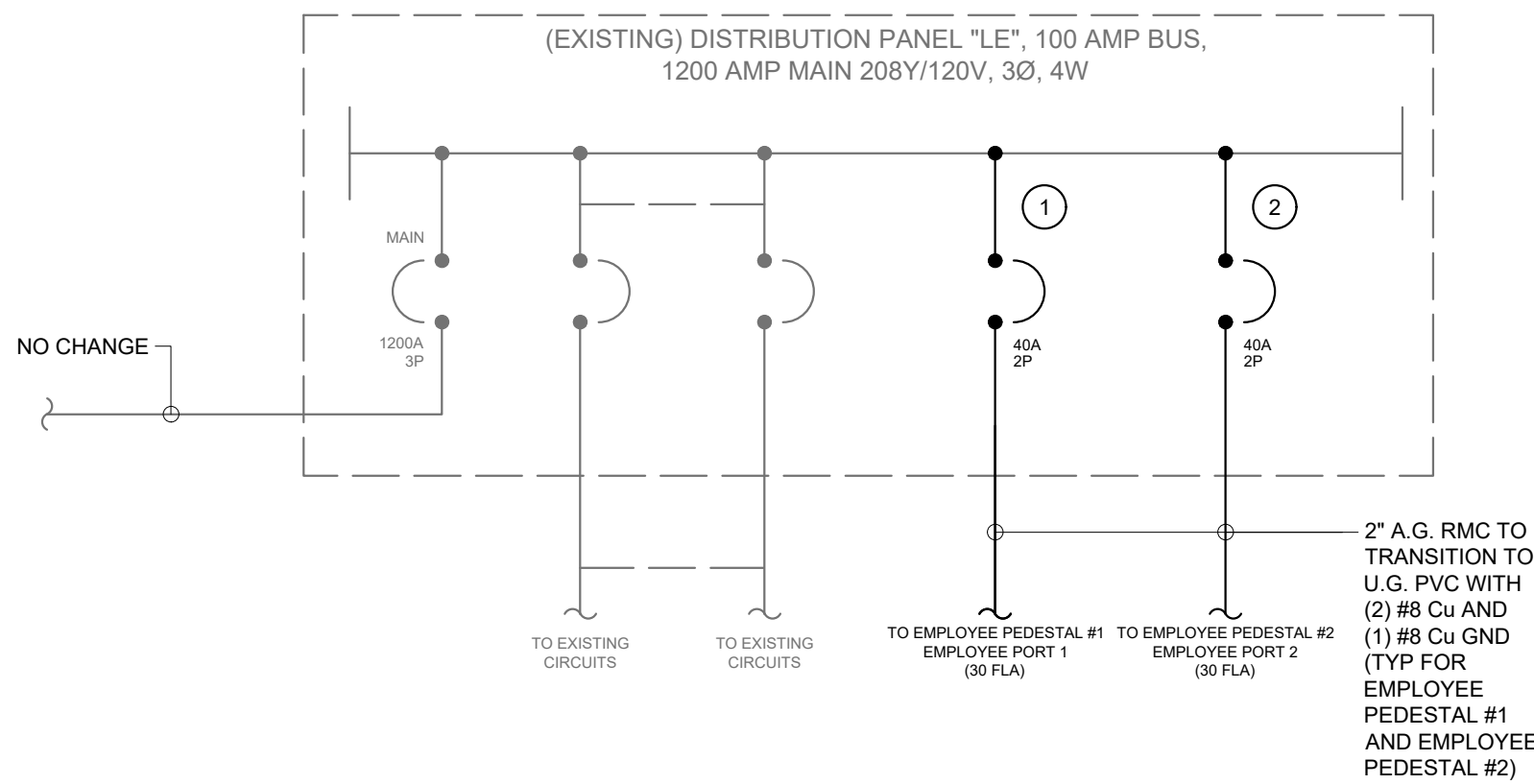
SOUTHERN CALIFORNIA EDISON

TSD FLEET EV CHARGING PROGRAM  
MOUNTAIN VIEW GENERATION STATION  
CONDUIT SECTIONS AND DETAILS

E2.1

DR. BY: SL  
CH. BY: CS  
DATE: 03/24/2021  
SCALE: AS NOTED  
SHEET NO. 11  
OF 16 SHEETS





**A**  
**E3.0** EXISTING PANEL "LE" SINGLE LINE DIAGRAM  
NOT TO SCALE

**B**  
**E3.0** EXISTING SWITCHBOARD AND PROPOSED PANEL "EV" SINGLE LINE DIAGRAM  
NOT TO SCALE

EXISTING PANEL "LE"																			
BUS AMPS: 100				(SEE NOTE 17)				LOC: MOUNTAIN VIEW GENERATION				MTG: WALL				MAIN AMPS: M.L.O.			
PHASE: 3				WIRES: 4				NEMA: 3R				VOLTS: 208Y/120V				FEEDER: EXISTING FEEDERS			
																FEEDER ENTRY AT: BOTTOM			
DESCRIPTION	VOLT-AMPS			BKR TRIP	CKT	L1	L2	L3	CKT	BKR TRIP	VOLT-AMPS			DESCRIPTION	L1	L2	L3	CKT	BKR TRIP
	L1	L2	L3								L1	L2	L3						
UNKNOWN	-	0.0	0.0	20A / 1P	1	●			2	20A / 1P	-	0.0	0.0	UNKNOWN					
UNKNOWN	0.0	-	0.0	20A / 1P	3		●		4	20A / 1P	0.0	-	0.0	UNKNOWN					
UNKNOWN	0.0	0.0	-	20A / 1P	5			●	6	20A / 1P	0.0	0.0	-	UNKNOWN					
UNKNOWN	-	0.0	0.0	20A / 1P	7				8	20A / 1P	-	0.0	0.0	UNKNOWN					
UNKNOWN	0.0	-	0.0	20A / 1P	9		●		10	20A / 1P	0.0	-	0.0	UNKNOWN					
UNKNOWN	0.0	0.0	-	20A / 1P	11			●	12	20A / 1P	0.0	0.0	-	UNKNOWN					
FIRE ALARM	-	0.0	0.0	20A / 1P	13				14	20A / 1P	-	0.0	0.0	UNKNOWN					
UNKNOWN	0.0	-	0.0	15A / 1P	15		●		16	15A / 1P	0.0	-	0.0	UNKNOWN					
UNKNOWN	0.0	0.0	-	15A / 1P	17			●	18	40A / 2P	0.0	0.0	3120.0	EMPLOYEE PEDESTAL #1 (EMPLOYEE PORT-1)					
UNKNOWN	-	0.0	0.0	15A / 1P	19	●			20	3120.0	0.0	0.0	0.0						
UNKNOWN	0.0	-	0.0	15A / 1P	21		●		22	40A / 2P	0.0	3120.0	0.0	EMPLOYEE PEDESTAL #2 (EMPLOYEE PORT-2)					
BLANK	0.0	0.0	0.0	-	23			●	24	0.0	0.0	3120.0	0.0						
UNKNOWN	-	0.0	0.0	20A / 1P	25	●			26	-	0.0	0.0	0.0	BLANK					
BLANK	0.0	0.0	0.0	-	27		●		28	-	0.0	0.0	0.0	BLANK					
BLANK	0.0	0.0	0.0	-	29			●	30	-	0.0	0.0	0.0	BLANK					
UNKNOWN	-	0.0	0.0		31	●			32	-	0.0	0.0	0.0	BLANK					
	0.0	-	0.0	100A / 2P	33		●		34	-	0.0	0.0	0.0	BLANK					
	0.0	0.0	-		35			●	36	-	0.0	0.0	0.0	BLANK					
BLANK	0.0	0.0	0.0	-	37	●			38	-	0.0	0.0	0.0	BLANK					
BLANK	0.0	0.0	0.0	-	39		●		40	-	0.0	0.0	0.0	BLANK					
BLANK	0.0	0.0	0.0	-	41			●	42	-	0.0	0.0	0.0	BLANK					
CONNECTED LOAD >				0.0	0.0	0.0	ESTIMATED TOTAL VOLT-AMPERES				3120.0	3120.0	6240.0	< CONNECTED LOAD					
LINE 1 AMP: 26.0A				L1				L2				L3				REMARKS:			
LINE 2 AMP: 26.0A				3120.0 VA				3120.0 VA				6240.0 VA				15.6KVA TOTAL ESTIMATED CONNECTED LOAD: 43.3A @ 3PH, 208V, (AT 125% CONTINUOUS LOAD)			
LINE 3 AMP: 52.0A																			

**C**  
**E3.0** EXISTING PANEL "LE" LOAD SCHEDULE  
NOT TO SCALE

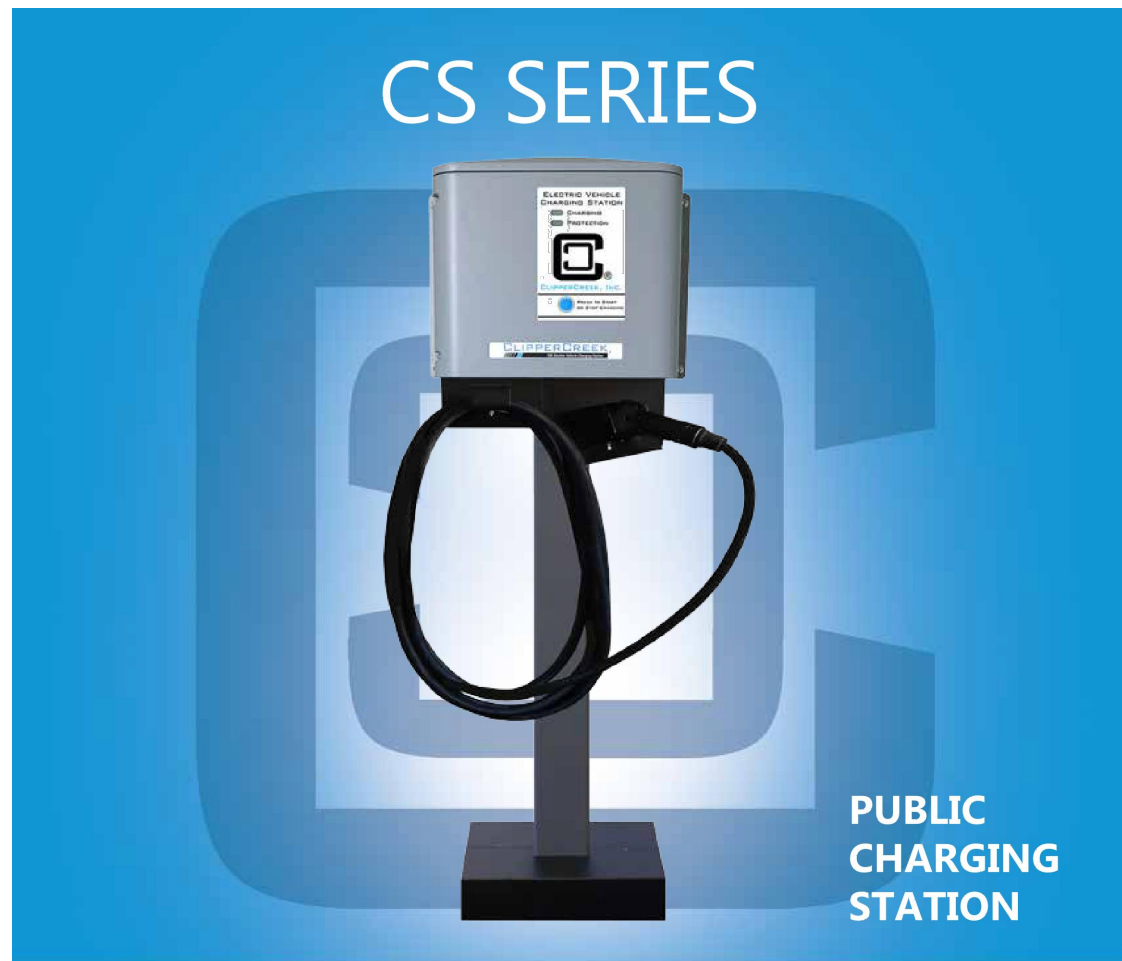
PROPOSED DISTRIBUTION PANEL "EV"																			
BUS AMPS: 400				MFR: Z-POWER				LOC: MOUNTAIN VIEW GENERATION				MTG: PEDESTAL				MAIN AMPS: 400			
PHASE: 3				WIRES: 4				NEMA: 3R				VOLTS: 208Y/120V				FEEDER: (2) RUNS OF (4) #3/0 CU AND (1) #2 CU GROUND			
																FEEDER ENTRY AT: SIDE			
DESCRIPTION	VOLT-AMPS			BKR TRIP	CKT	L1	L2	L3	CKT	BKR TRIP	VOLT-AMPS			DESCRIPTION	L1	L2	L3	CKT	BKR TRIP
	L1	L2	L3								L1	L2	L3						
EMPLOYEE PEDESTAL #3 (EMPLOYEE PORT-3)	3120.0	0.0	0.0	40A / 2P	1	●			2	40A / 2P	3120.0	0.0	0.0	(FUTURE) EMPLOYEE PEDESTAL #4					
	0.0	3120.0	0.0		3		●		4	0.0	3120.0	0.0	0.0						
EMPLOYEE PEDESTAL #3 (EMPLOYEE PORT-4)	0.0	0.0	3120.0	40A / 2P	5			●	6	40A / 2P	0.0	0.0	3120.0	(FUTURE) EMPLOYEE PEDESTAL #4					
	3120.0	0.0	0.0		7	●			8	0.0	3120.0	0.0	0.0						
FLEET PEDESTAL #1 (FLEET PORT-1)	0.0	3328.0	0.0	40A / 2P	9		●		10	40A / 2P	0.0	3328.0	0.0	FLEET PEDESTAL #2 (FLEET PORT-3)					
	0.0	0.0	3328.0		11			●	12	0.0	0.0	3328.0	0.0						
FLEET PEDESTAL #1 (FLEET PORT-2)	3328.0	0.0	0.0	40A / 2P	13	●			14	40A / 2P	3328.0	0.0	0.0	FLEET PEDESTAL #2 (FLEET PORT-4)					
	0.0	3328.0	0.0		15		●		16	0.0	3328.0	0.0	0.0						
FLEET PEDESTAL #3 (FLEET PORT-5)	0.0	0.0	3328.0	40A / 2P	17			●	18	40A / 2P	0.0	0.0	3328.0	(FUTURE) FLEET PEDESTAL #4					
	3328.0	0.0	0.0		19	●			20	0.0	3328.0	0.0	0.0						
(FUTURE) FLEET PEDESTAL #3	0.0	3328.0	0.0	40A / 2P	21		●		22	40A / 2P	0.0	3328.0	0.0	(FUTURE) FLEET PEDESTAL #4					
	0.0	0.0	3328.0		23			●	24	0.0	0.0	3328.0	0.0						
BLANK	0.0	0.0	0.0	-	25	●			26	-	0.0	0.0	0.0	BLANK					
BLANK	0.0	0.0	0.0	-	27		●		28	-	0.0	0.0	0.0	BLANK					
BLANK	0.0	0.0	0.0	-	29			●	30	-	0.0	0.0	0.0	BLANK					
BLANK	0.0	0.0	0.0	-	31	●			32	-	0.0	0.0	0.0	BLANK					
BLANK	0.0	0.0	0.0	-	33		●		34	-	0.0	0.0	0.0	BLANK					
BLANK	0.0	0.0	0.0	-	35			●	36	-	0.0	0.0	0.0	BLANK					
BLANK	0.0	0.0	0.0	-	37	●			38	-	0.0	0.0	0.0	BLANK					
BLANK	0.0	0.0	0.0	-	39		●		40	-	0.0	0.0	0.0	BLANK					
BLANK	0.0	0.0	0.0	-	41			●	42	-	0.0	0.0	0.0	BLANK					
CONNECTED LOAD >				12896.0	13104.0	13104.0	ESTIMATED TOTAL VOLT-AMPERES				12896.0	13104.0	13104.0	< CONNECTED LOAD					
LINE 1 AMP: 214.9A				L1				L2				L3				REMARKS:			
LINE 2 AMP: 218.4A				25792.0 VA				26208.0 VA				26208.0 VA				97.8KVA TOTAL ESTIMATED CONNECTED LOAD: 271.4A @ 3PH, 208V, (AT 125% CONTINUOUS LOAD)			
LINE 3 AMP: 218.4A																			

**E**  
**E3.0** PROPOSED DISTRIBUTION PANEL "EV" LOAD SCHEDULE  
NOT TO SCALE

EXISTING SWITCHBOARD														
BUS AMPS: <u>1200</u>			(SEE NOTE 17)			LOC: <u>MOUNTAIN VIEW GENERATION</u>			MTG: <u>PEDESTAL</u>			MAIN AMPS: <u>1200</u>		
PHASE: <u>3</u>			WIRES: <u>4</u>		NEMA: <u>3R</u>		VOLTS: <u>480Y/277V</u>		FEEDER: <u>EXISTING FEEDERS</u>			FEEDER ENTRY AT: <u>BOTTOM</u>		
DESCRIPTION	VOLT-AMPS			BKR TRIP	CKT	L1	L2	L3	CKT	BKR TRIP	VOLT-AMPS			DESCRIPTION
	L1	L2	L3								L1	L2	L3	
MOUNTAIN VIEW ADMINISTRATION BUILDING	-	0.0	0.0	60A / 3P	1	●			2	800A / 3P	-	0.0	0.0	NEW MAINTENANCE SHOP
	0.0	-	0.0		3		●		4		0.0	-	0.0	
	0.0	0.0	-		5			●	6		0.0	0.0	-	
	-	0.0	0.0	7	●			8	0.0		0.0	0.0		
ADMINISTRATION TRAILER & CART SHED	0.0	-	0.0	60A / 3P	9		●		10	-	0.0	0.0	0.0	BLANK
	0.0	0.0	-		11			●	12	-	0.0	0.0	0.0	BLANK
	-	0.0	0.0		13	●			14	-	0.0	0.0	0.0	BLANK
OUTDOOR LIGHTING	0.0	-	0.0	50A / 3P	15		●		16	-	0.0	0.0	0.0	BLANK
	0.0	0.0	-		17			●	18	-	0.0	0.0	0.0	BLANK
	-	0.0	0.0		19	●			20	-	0.0	0.0	0.0	BLANK
OLD MAINTENANCE SHOP	0.0	-	0.0	225A / 3P	21		●		22	-	0.0	0.0	0.0	BLANK
	0.0	0.0	-		23			●	24	-	0.0	0.0	0.0	BLANK
	25792.0	0.0	0.0		25	●			26	-	0.0	0.0	0.0	BLANK
(PROPOSED) STEP DOWN TRANSFORMER	0.0	26208.0	0.0	200A / 3P	27		●		28	-	0.0	0.0	0.0	BLANK
	0.0	0.0	26208.0		29			●	30	-	0.0	0.0	0.0	BLANK
	-	0.0	0.0		31	●			32	-	0.0	0.0	0.0	BLANK
SPARE	0.0	-	0.0	-	33		●		34	-	0.0	0.0	0.0	BLANK
	0.0	0.0	-		35			●	36	-	0.0	0.0	0.0	BLANK
	0.0	0.0	0.0		-	37	●			38	-	0.0	0.0	0.0
BLANK	0.0	0.0	0.0	-	39		●		40	-	0.0	0.0	0.0	BLANK
BLANK	0.0	0.0	0.0	-	41			●	42	-	0.0	0.0	0.0	BLANK
CONNECTED LOAD >		25792.0	26208.0	26208.0	ESTIMATED TOTAL VOLT-AMPERES						0.0	0.0	0.0	< CONNECTED LOAD
LINE 1 AMP: <u>93.1A</u>					L1		L2		L3		REMARKS:			
LINE 2 AMP: <u>94.6A</u>					25792.0 VA		26208.0 VA		26208.0 VA		97.8KVA TOTAL ESTIMATED CONNECTED LOAD: 117.6A @ 3PH, 480V, (AT 125% CONTINUOUS LOAD)			
LINE 3 AMP: <u>94.6A</u>														







**A REAL PRODUCT, FOR THE REAL WORLD.** The CS Series from ClipperCreek is designed to take the wear-and-tear of everyday use in all environments. Its tough NEMA 4 outdoor rated enclosure and rubber over-molded connector for the CS-60 and above ensures you can install this unit anywhere with confidence.

- **MANY POWER LEVELS** - 16A to 80A charging
- **QUALITY** - Technology that works for the life of your current plug-in vehicle and then some
- **CONVENIENCE** - 25 feet of charging cable for installation and operation flexibility
- **DURABILITY** - Rugged, fully sealed NEMA 4 enclosure for installation anywhere
- **RELIABILITY** - Backed by ClipperCreek's 1-year warranty, and outstanding customer service



## CS SERIES PRODUCT OVERVIEW

To learn more call 877-694-4194  
or visit [ClipperCreek.com](http://ClipperCreek.com)

### ELECTRICAL SPECIFICATIONS

- **Service** - 208V to 240V, 20A to 100A, single phase, 2 wire w/ground
- **Charge Current or Output Power** - 208V to 240V, 16A to 80A continuous (3.8kW to 19.2kW)
- **Service Ground Monitor** - Constantly checks for presence of proper safety ground
- **Automatic Circuit Reclosure after minor power faults**
- **Charge Circuit Interruption Device** - Ground Fault Protection with fully automated self-test, eliminates manual user testing
- **Cold Load Pickup** - Time-delayed and randomized to allow seamless re-energizing of unit following power outages
- **External Control Input** - Allows external control from smart meter (AM), billing or load management device

### MATERIAL SPECIFICATIONS

- Indoor/outdoor rated fully sealed (NEMA 4) enclosure
- Operating Temperatures: -22°F to 122°F (-30°C to +50°C)
- 22" H x 17" W x 8" D (559mm H x 432mm W x 203mm D)
- Weight 33 lbs. (15kg) to 45lbs. (20.4kg)
- UL, cUL, ETL, cETL Listed

## MULTIPLE CONFIGURATIONS

MODEL	CS-100	CS-90	CS-80	CS-70	CS-60	CS-50	CS-40	CS-30	CS-20
CIRCUIT BREAKER RATING:	100A	90A	80A	70A	60A	50A	40A	30A	20A
CONTINUOUS CURRENT:	80A	72A	64A	56A	48A	40A	32A	24A	16A

### CODES AND STANDARDS

- **UL 2594** Electric Vehicle Supply Equipment
- **UL 2231** Personal Protection Device (i.e., CCID Hardware)
- **UL 1998** Standard for Safety-Related Software
- **UL 991** Standard for tests for Safety-Related Controls Employing Solid-State Devices
- **NEC 625** Electric Vehicle Charge System
- **SAE-J1772™** Electric Vehicle Conductive Charge Coupler



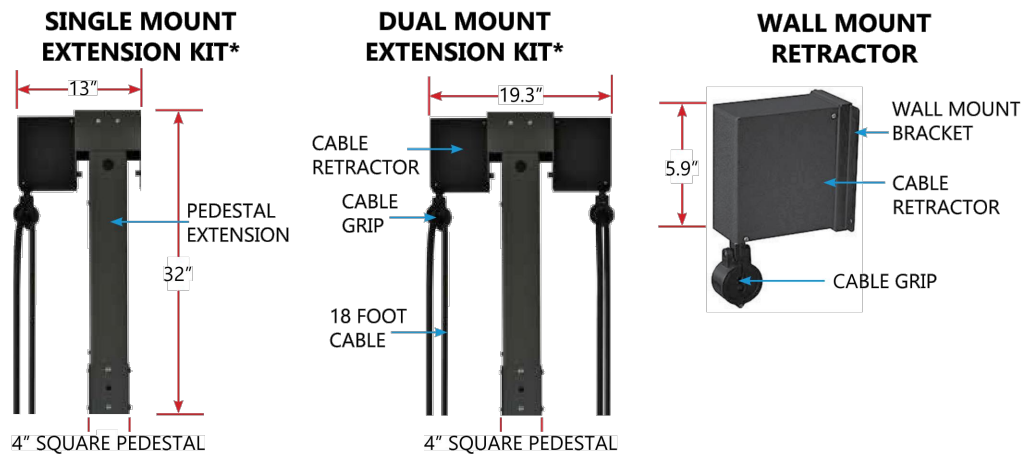
**CONVENIENT - BUILT TO LAST.** ClipperCreek's CS product line have a time-tested mounting solution for all your installation needs. The only mounting options on the market with more than 20 years field experience. All units come with two knockouts perfectly situated for 120V outlets.

- **Low Cost** - Minimize your installation costs and mount one or two units on a single pedestal.
- **Tough** - 4" Cold Rolled Steel 1/4" thick, powder coated for lasting installation
- **Reliable** - Backed by ClipperCreek's 3-year warranty
- **Functional** - All units come equipped with 2 knockouts positioned for 120V outlets
- **Convenient** - Integrated cable holder and connector holster



Add a cable management extension to the CS Pedestal to keep the cables neat and off the ground.

\*18 foot cables on the MCS and CS stations are required for use with the Extension Kits. Please request at time of purchase.



## A CLIPPERCREEK CS-40 EV CHARGER SPECIFICATIONS

R1.0 NOT TO SCALE

PROJECT LOCATION: 2492 W. SAN BERNARDINO AVE, REDLANDS, CA 92374

220-0213

**Blair,  
Church & Flynn**  
CONSULTING ENGINEERS

CONSULTANT  
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Clovis, California 93612  
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REF. & REV.

SOUTHERN CALIFORNIA EDISON

TSD FLEET EV CHARGING PROGRAM  
MOUNTAIN VIEW GENRATION STATION  
UNDER SEPERATE CONTRACT

R1.0

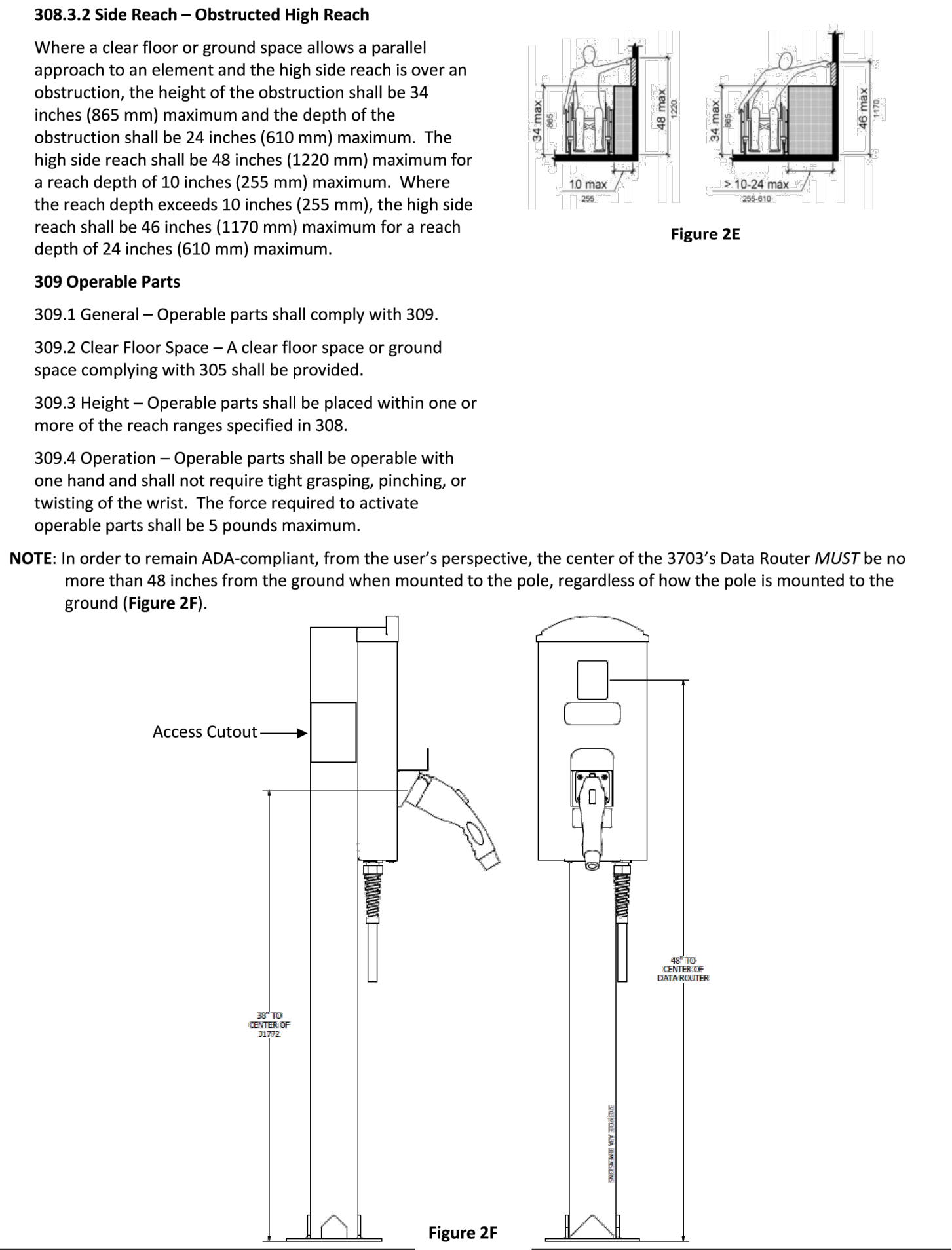
DR. BY: SL  
CH. BY: CS  
DATE: 03/24/2021  
SCALE AS NOTED

SHEET NO. 14  
OF 16 SHEETS

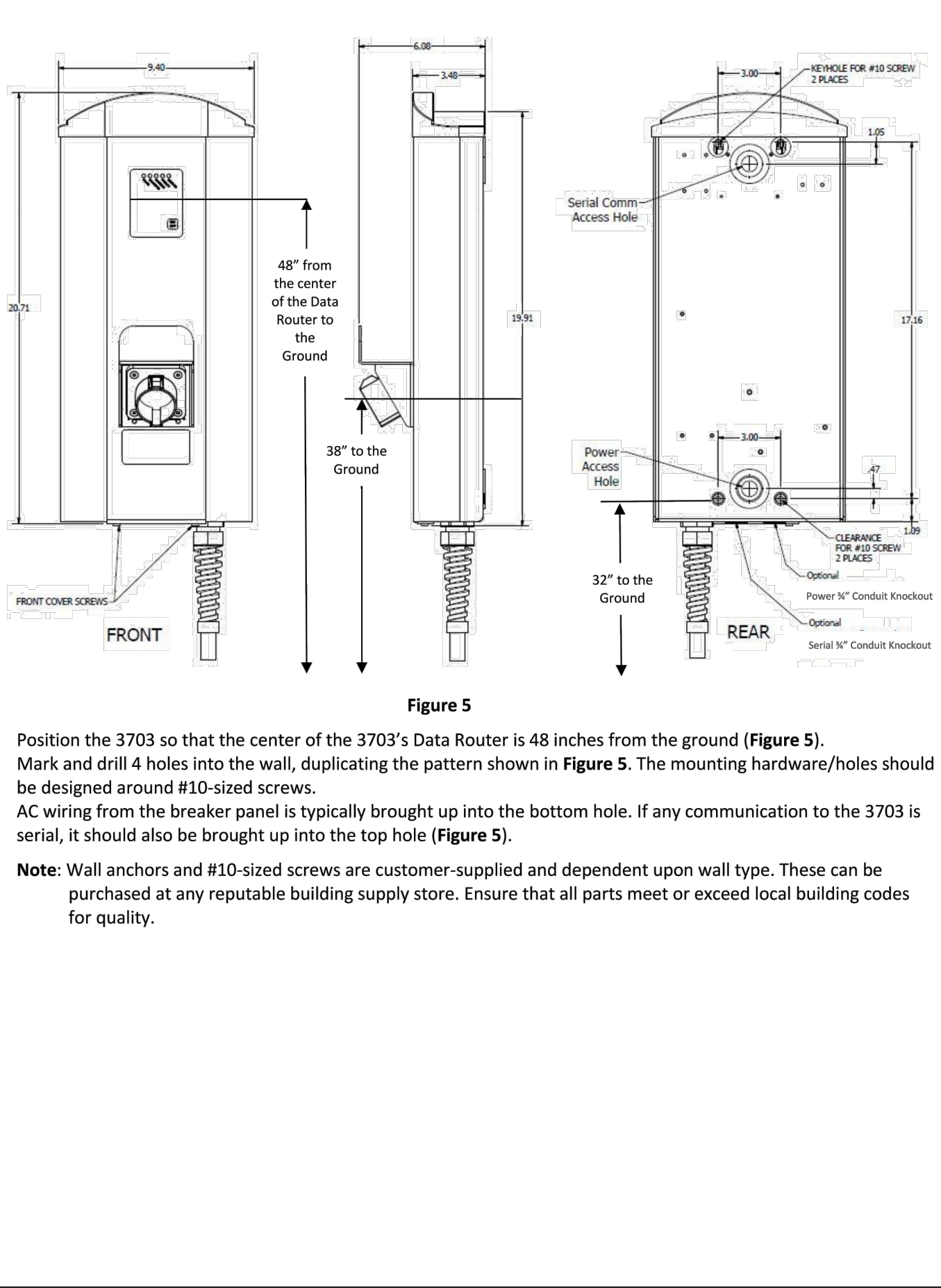


Specifications

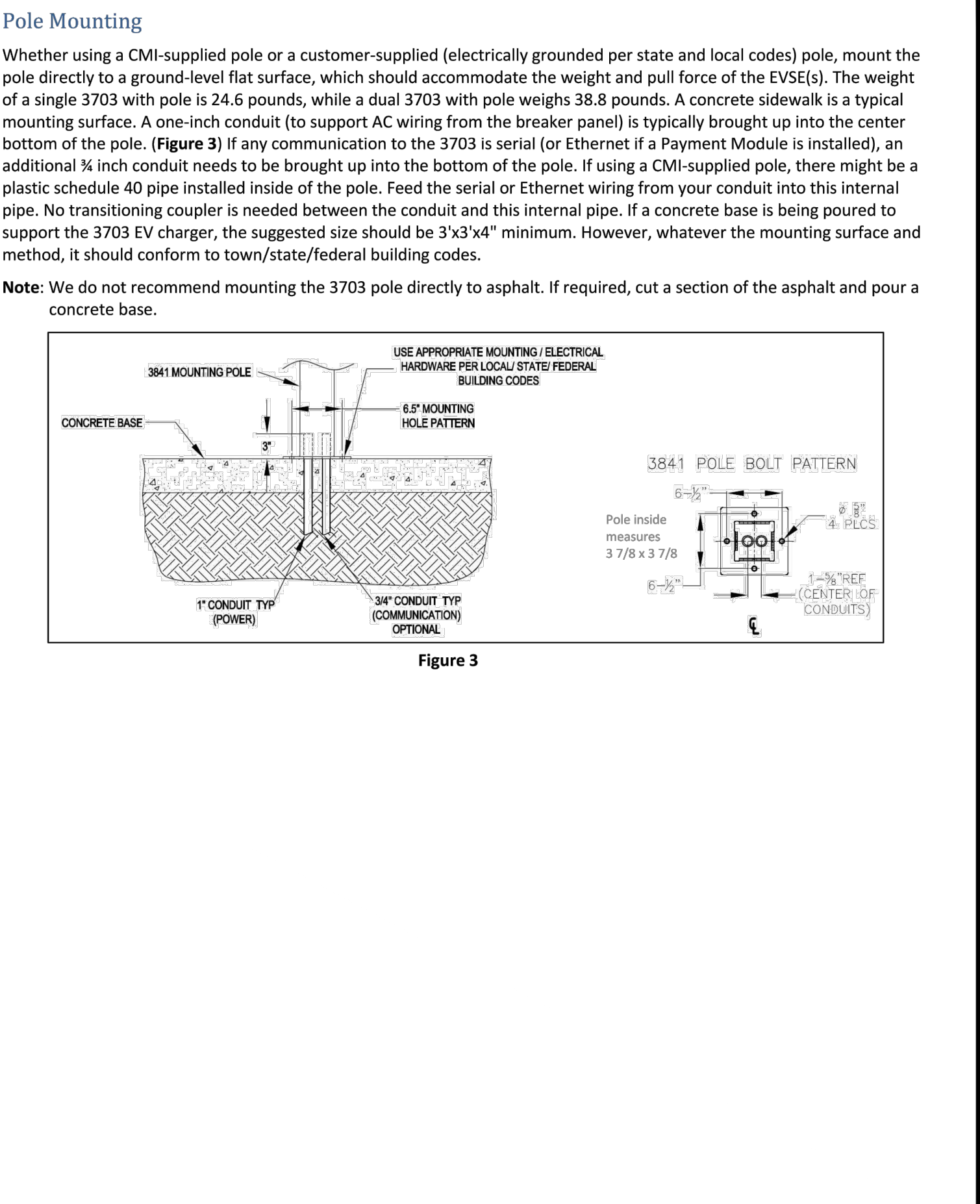
Product Code	
Product Code	3703
<b>Electrical*</b>	
Voltage	208-240 VAC
Current (Rated)	40A (or 30A)
Current (Simulated Level 1)	7A@208-240 VAC (On Command)
Connections	Line 1 and 2, Ground, (Neutral Not Required)
Required Service (Breaker Panel)**	2-pole 50A (or 40A) breaker <b>Non GFCI</b> on a dedicated circuit
Stand By Power	Less than 10W typical (without communication/Payment Module/Gateway operating)
Max Rated Power	9.6 kW (or 7.2KW)
<b>Safety Features</b>	
Over Current Disconnect	42A
Surge Protection	6KV @ 3000A
Ground Fault	Internal 20 mA CCID with auto re-closure (three attempts)
<b>Compliance</b>	
Safety	IEC/UL/CSA C22.2 61010-1, UL2594, UL2231-1, UL2231-2, NEC Article 625, SAE 11772
EMC	FCC Part 15 Class A, Canadian ICES-003
<b>Communications</b>	
Zigbee	FCC ID: MCQ-PROS2B, IC: 1846A-PRO S2B
<b>Environmental</b>	
Operating Temperature	-22° to 122° F (-30° C to 50° C) ambient
Operating Humidity	Up to 95% non-condensing
NEMA Rating	NEMA 3R
<b>Accessories</b>	
Communications Module (ZigBee) (Optional)	Contains FCC ID: MCQ-PS2CTH, MODEL XBEE PRO S2C RADIO, IC: 1846A- PS2CTH
<b>General</b>	
Dimensions	20.71 in (h) x 9.40 in (w) x 6.06 in (d) (Excluding Pole)
Weight	14.8 lbs.
Mounting	Wall, Surface-mounted Pole
* Observe all required Lockout/Tagout procedures while making any electrical connections or servicing the unit.	
** Dual pole-mounted chargers require two breakers.	



Wall-Mounting

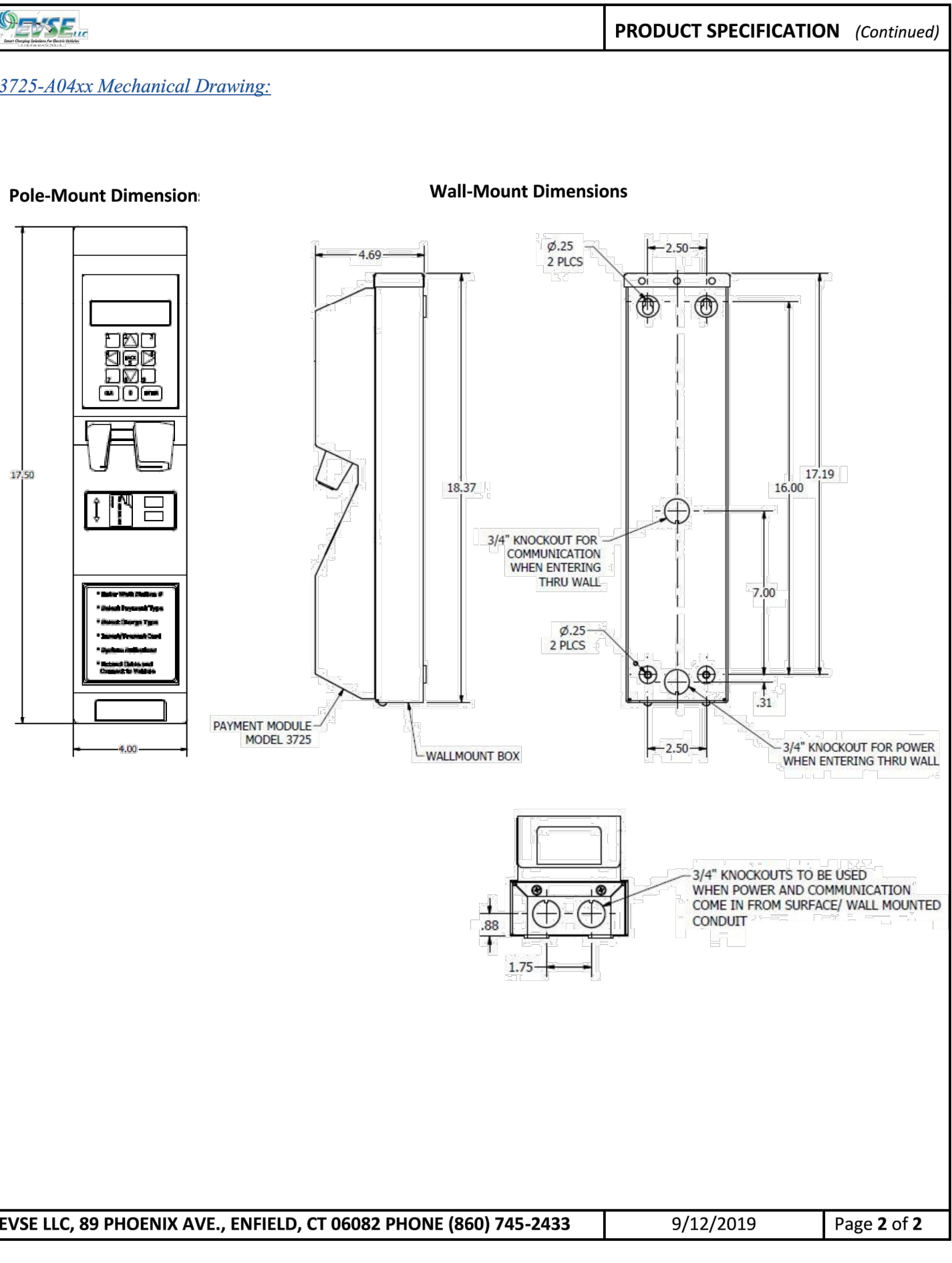


Mounting Options



A CHARGER SPECIFICATIONS

PRODUCT SPECIFICATION	
Product Line: <b>EVSE</b>	
Product #: <b>3725</b> Version #: <b>A04xx</b>	
<b>Payment Module, Pole/Wall Mount</b>	
<p>The Model 3725 Payment Module operates as the central payment, access and communication system manager for a network of Electric Vehicle Supply Equipment (EVSE) charging stations.</p> <p>When communicating between an EVSE and a Payment Module, your options are ZigBee Mesh or Serial RS-232. When communicating between a Payment Module and your host network, your options are Cellular or Ethernet, where the unit communicates with third-party networks. The Payment Module does not need to be physically connected to EVSEs when set up for wireless Zigbee communication.</p> <p>The Payment Module is packaged in a NEMA 3R-rated durable ABS enclosure designed to withstand the harshest elements, including direct rain and external icing.</p> <p>The 3725 has a user-friendly 3x4 keypad, with stainless steel snap domes for tactile feel. The keypad is also sealed to be weather-resistant. A 4x20 LCD is designed to be seen clearly and outdoors in direct sunlight.</p> <p>The 3725 can be equipped with an optional encrypted magnetic card reader to allow payment with credit and debit cards. An optional RFID reader is also available for pre-issued, non-contact RFID cards.</p>	
<p><b>Data Processor:</b> The 3725 Payment Module is equipped with a programmable microprocessor, Real Time Clock, and 32G SD card for data storage memory.</p> <p>Card and card holder information is encrypted as it is transmitted to the credit card payment processor, and is never stored locally in the Payment Module. When a valid card authorization is received, the EVSE is activated, and the start of the transaction is stored locally and can be optionally transmitted to a central host. The charging cost is held against the card until charging is complete and the cable is removed from the vehicle, at which time, if being used, the host computer is notified, payment is finalized, and fees are charged.</p> <p><b>Modular Design:</b> No special tools are required to reconfigure or replace in the field. The Payment Module is mounted on a pre-wired pole, or on the wall using a durable, powder-coated metal mount with knockouts for conduit.</p> <p><b>Keypad:</b> Stainless steel snap domes for tactile feel.</p> <p><b>Display:</b> LCD, 4 rows, 20 alphanumeric characters per row</p> <p><b>Environmental Considerations:</b> The Payment Module operates at safe, low-voltage power supplied by the EVSE connection. It is constructed with high-impact ABS plastic, and is engineered to resist the harshest elements. A NEMA 3R enclosure stands up to direct rain, external icing and is rust-resistant.</p>	<p><b>Dimensions:</b> 17 9/16\" H x 4\" W x 2 1/2\" D</p> <p><b>Operating Ranges:</b> Humidity: 0 – 90% non-condensing Temperature : -22F to 122F (-30C to 50C) Ambient</p> <p><b>Power:</b> +24VDC @ 1Amp</p> <p><b>Standards:</b> Meets FCC Part 15 Class A, Canadian ICES-003 and NEMA 3R standards</p> <p><b>Host Network Connections:</b> One of the following: <b>Ethernet Port:</b> Standard 10/100 IEEE 802.3 <b>Cellular Modem:</b> Compatible with all major US cellular operations</p> <p><b>EVSE Connection:</b> One of the following: <b>Zigbee Mesh:</b> Communicate with up to 32 EVSE's over a 2.4GHz wireless connection <b>Serial:</b> Communicate with up to 8 EVSE's over a hard-wired connection</p> <p><b>Payment Card:</b> Either or both: <b>Credit/Debit Card Reader:</b> An encrypted magnetic card reader <b>RFID Card Reader:</b> Non-contact card reader compatible with all Mifare /CLASS cards</p>
Label Description: <b>Payment Module, Pole/Wall Mount</b>	
Product Code: <b>3725-A04xx</b>	
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EVSE LLC, 89 PHOENIX AVE., ENFIELD, CT 06082 PHONE (860) 745-2433	
Marketing: DS	Engineering: GC
Date: 5/5/17	Date: 5/5/17
9/12/2019	Page 1 of 2



B PAYMENT MODULE SPECIFICATIONS



Drawing: \\netfile01\projects\220-0213\blairchurch\view\generation\CD Phase\production\drawing\220-0213\_MVG\_dtd.dwg: 1: R2.0 Title 24 Documents - RCF.dwg  
Rev 03/24/2021  
Rev 03/24/2021

PROJECT LOCATION: 2492 W. SAN BERNARDINO AVE, REDLANDS, CA 92374			220-0213		
<div><div><div>Blair, Church &amp; Flynn</div><div>CONSULTING ENGINEERS NOTICE OF CALIFORNIA</div></div><div><div>REGISTERED PROFESSIONAL ELECTRICAL ENGINEER PLAN REVIEW ONLY FOR CONSTRUCTION</div><div>Date Signed:</div></div></div>	CONSULTANT	REF. & REV.	SOUTHERN CALIFORNIA EDISON		
	Blair, Church & Flynn Consulting Engineers 4851 Clovis Avenue, Suite 200 Clovis, California 93612 Tel (559) 326-1400 Fax (559) 326-1500			TSD FLEET EV CHARGING PROGRAM MOUNTAIN VIEW GENRATION STATION TITLE 24 DOCUMENTS	R2.0
				DR. BY: SL CH. BY: CS DATE: 03/24/2021 SCALE AS NOTED	SHEET NO. 16 OF 16 SHEETS