

- NOTES
1. SOD PLANTED IN THE FALL MUST ESTABLISH ITS ROOTS BEFORE THE FIRST WINTER FROST. DETERMINE WHEN THE FIRST FROST USUALLY OCCURS, AND PLANT THE SOD NO LATTER THAN ONE MONTH BEFORE THE FIRST FROST. IF THE CONSTRUCTION IS FINISHED LATER THAN ONE MONTH BEFORE THE FIRST FROST, USE STRAW UNTIL SOD CAN BE INSTALLED.
  2. THE CONTRACTOR SHALL RETURN SIDEWALKS, LANDSCAPING, PLANTERS, IRRIGATION SYSTEMS, AND ANY OTHER FACILITIES DISTURBED BY THE WORK TO THE SAME OR BETTER CONDITION THAN EXISTED PRIOR TO THE COMMENCEMENT OF THE WORK.
  3. EVCS NOT AVAILABLE TO THE GENERAL PUBLIC AND INTENDED FOR USE BY A DESIGNATED VEHICLE OR DRIVER SHALL NOT BE REQUIRED TO COMPLY WITH CBC SECTION 11B-228.3.2. EVCS ON THIS PROJECT ARE FOR FLEET AND MEET EXCEPTION 1 FOR FLEET CHARGING.

- LEGEND
- PROPOSED SINGLE PORT DCFC
  - PROPOSED SINGLE PORT EVSE
  - PROPOSED 208V 200A DISTRIBUTION PANEL
  - PROPOSED 75KVA STEP DOWN TRANSFORMER
  - PROPOSED 480V 400A METER PEDESTAL
  - PROPOSED BOLLARD
  - LIMITS OF SITE WORK
  - PROPOSED ACCESSIBLE STRIPING

**SOUTHERN CALIFORNIA EDISON**

**CHARGE READY PROGRAM**

**BLACK & VEATCH**

11401 LAMAR AVENUE  
OVERLAND PARK, KS 66211  
(913) 458-2000

PROJECT NO: 402809

DRAWN BY: GAK

CHECKED BY: NMB

REV	DATE	DESCRIPTION
A	03/28/23	ISSUED FOR 50% REVIEW

**NOT TO BE USED FOR CONSTRUCTION**

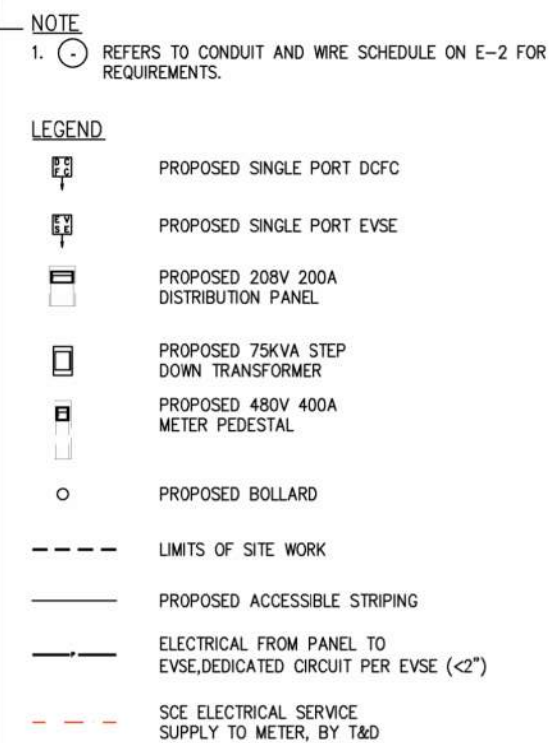
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SCE\_CRT-2022-0102  
CITY OF CARSON  
18601 S MAIN ST,  
GARDENA, CA 90248

SHEET TITLE  
ENLARGED SITE PLAN

SHEET NUMBER  
C-3





## CHARGE READY PROGRAM



11401 LAMAR AVENUE  
OVERLAND PARK, KS 66211  
(913) 458-2000

PROJECT NO:	402809
DRAWN BY:	GAK
CHECKED BY:	NMB

A	03/28/23	ISSUED FOR 50% REVIEW
REV	DATE	DESCRIPTION

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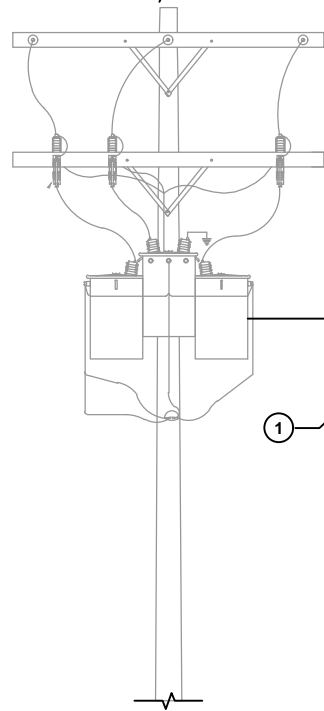
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CITY OF CARSON  
18601 S MAIN ST,  
GARDENA, CA 90248

SHEET TITLE  
ELECTRICAL PLAN

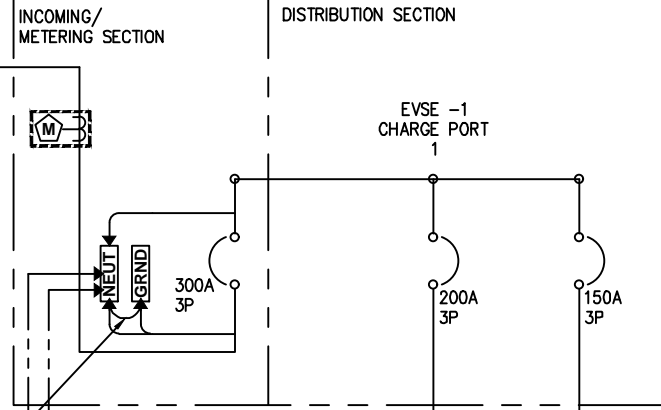
SHEET NUMBER  
E-1



EXISTING UTILITY TRANSFORMER  
480/277V



PROPOSED SWITCHBOARD, 400 AMP BUS, 300 AMP MAIN,  
480/277V, 3 $\phi$ , 4W, 30 KAIC (MINIMUM)



MANUFACTURER PROVIDED  
MAIN BONDING JUMPER PER  
CEC 250.24(A)  
(4),250.28(C),250.8(A)(7)

#6 SOLID AWG CU  
GROUNDING  
ELECTRODE  
CONDUCTOR PER  
CEC 250.66 (A)

GROUNDING ELECTRODE  
5/8"X8"-0" COPPER CLAD  
GROUND ROD INSTALLATION  
PER CEC 250.52(A)5),  
250.3(A) AND 250.68

#4 AWG BARE CU GROUNDING  
ELECTRODE CONDUCTOR PER CEC  
250.66(B)

CONCRETE ENCASED  
ELECTRODE PER CEC  
250.52(A)(3)(1) OR (2)

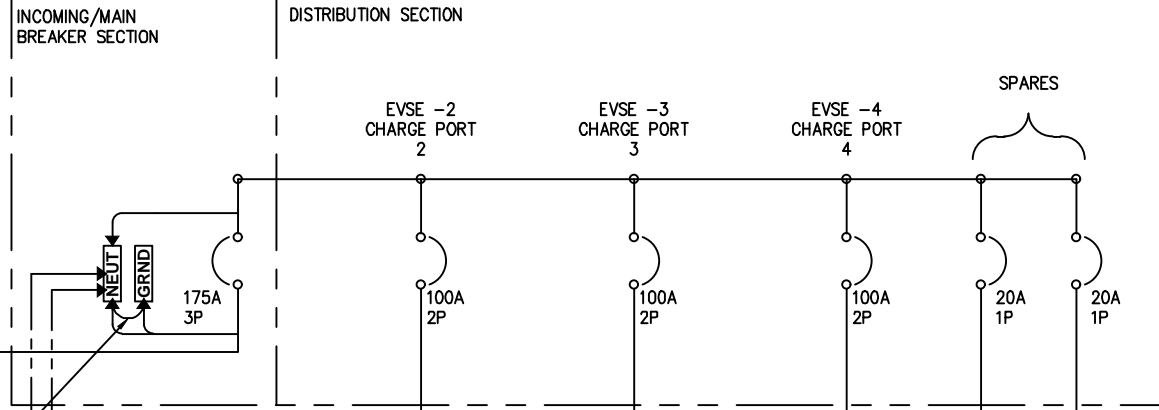
200A FUSED  
DISCONNECT (TYP)  
(SEE NOTE 4)

EVSE -1  
CHARGE PORT 1  
(148 FLA)  
(INSTALLED BY OTHERS)  
LEVEL 3

XFMR  
75KVA  
480V  
208/120

INCOMING/MAIN  
BREAKER SECTION

PROPOSED SWITCHBOARD, 200 AMP BUS, 175 AMP MAIN, 208/120V, 3 $\phi$ , 4W, 42 KAIC (MINIMUM)



MANUFACTURER PROVIDED  
MAIN BONDING JUMPER PER  
CEC 250.24(A)  
(4),250.28(C),250.8(A)(7)

#6 SOLID AWG CU  
GROUNDING  
ELECTRODE  
CONDUCTOR PER  
CEC 250.66 (A)

GROUNDING ELECTRODE  
5/8"X8"-0" COPPER CLAD  
GROUND ROD INSTALLATION  
PER CEC 250.52(A)5),  
250.3(A) AND 250.68

#4 AWG BARE CU GROUNDING  
ELECTRODE CONDUCTOR PER CEC  
250.66(B)

CONCRETE ENCASED ELECTRODE PER  
CEC 250.52(A)(3)(1) OR (2)

EVSE -2  
CHARGE PORT 2  
(80 FLA)  
(INSTALLED BY OTHERS)  
LEVEL 2

EVSE -3  
CHARGE PORT 3  
(80 FLA)  
(INSTALLED BY OTHERS)  
LEVEL 2

EVSE -4  
CHARGE PORT 4  
(80 FLA)  
(INSTALLED BY OTHERS)  
LEVEL 2

TERMINAL BLOCK  
(TYP)(SEE NOTE 4)

#### NOTES

1. STANDARD RATED SERVICE PANELS, OVER CURRENT PROTECTION DEVICES AND WIRE SIZES BASED ON CEC/CEC REQUIREMENTS AT 125% CONTINUOUS LOAD. 100% RATED SERVICE PANELS, OVER CURRENT PROTECTION DEVICES AND WIRE SIZES BASED ON CEC/CEC REQUIREMENTS AT 100% CONTINUOUS LOAD.
2. PER CEC 210.19 (A) INFORMATIONAL NOTE#4, "CONDUCTORS FOR BRANCH CIRCUITS AS DEFINED IN ARTICLE 100, SIZED TO PREVENT A VOLTAGE DROP EXCEEDING 3 PERCENT AT THE FARTHEST OUTLET OF POWER, HEATING, AND LIGHTING LOADS OR COMBINATION OF SUCH LOADS. AND WHERE THE MAXIMUM TOTAL VOLTAGE DROP ON BOTH FEEDERS AND BRANCH CIRCUITS TO THE FARTHEST OUTLET DOES NOT EXCEED 5%."
3. CONTRACTOR TO INSTALL FUSED DISCONNECT PRIOR TO CUSTOMER EVSE CHARGING DISPENSER BEING INSTALLED IN PHASE II.
4. CONTRACTOR TO INSTALL TERMINAL BLOCK PRIOR TO CUSTOMER EVSE CHARGING DISPENSER BEING INSTALLED IN PHASE II.

#### CONDUIT AND WIRING SCHEDULE

	FROM	TO	CONFIGURATION
①	PROPOSED TRANSFORMER	PROPOSED 400A 480V SWITCHBOARD	TBD (PER UTILITY DESIGN)
②	PROPOSED 400A 480V SWITCHBOARD	PROPOSED 75KVA 480/208V STEP DOWN TRANSFORMER	(3) 1/0 MCM CU + (1) #6 AWG CU EGC IN (1) 2" SCH 40 PVC
③	PROPOSED 75KVA 480/208V STEP DOWN TRANSFORMER	PROPOSED 200A 208V SWITCHBOARD	(3) 2/0 MCM CU + (1) 2/0 MCM CU NEUT + (1) #4 AWG CU SSBJ IN (1) 2 1/2" SCH 40 PVC
④	PROPOSED 400A 480V SWITCHBOARD	PROPOSED FUSED DISCONNECT FOR SINGLE PORT DCFC EVSE	(3) 3/0 MCM CU + (1) 3/0 MCM NEUT + (1) #6 AWG CU EGC IN (1) 2 1/2" SCH 40 PVC
⑤	PROPOSED 200A 208V SWITCHBOARD	PROPOSED FUSED DISCONNECT FOR SINGLE PORT EVSE	(2) #2 AWG CU + (1) #8 AWG CU EGC IN (1) 1 1/2" SCH 40 PVC

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SHEET TITLE  
SINGLE LINE DIAGRAM

SHEET NUMBER  
E-2