Business Services
Contracts Office
5735 47th Avenue ● Sacramento, CA 95824
(916) 643-2464
Janea Marking, Chief Business Officer
Robert Aldama, Purchasing Manager II

ADDENDUM NO. 2

Date: November 21, 2024

Issued by: Sacramento City Unified School District

Project: **Project #: 403**
Bus Electrification and Site Improvements

This addenda shall supersede the original Information, attachments, and specifications regarding **Project No. 403** where it adds to, deletes from, clarifies or otherwise modifies them. All other conditions and any previous addenda shall remain unchanged.

Part A – Bidding Documents:

AD 1.01 Refer to **403 Project Manual, Section 00 11 13 – NOTICE TO BIDDERS**, **Article 1 General, Section 1.01**

Revised to Read:

License required: **A, B, and or C-10**

AD 1.02 Refer to **403 Project Manual, Section 00 11 13 – NOTICE TO BIDDERS**, **Article 1 General, Section 1.01**

Revised to Read:

The following is the anticipated schedule for bidding and award of the contract for the Project:

Bidding Documents Released	Thursday, November 7th, 2024.
Mandatory Bidder's Conference	Friday, November15th,2024, 10:00a.m.
Bidder question deadline	Wednesday, November 27th, 2024, 10:00a.m.
Prequalification application deadline	Wednesday, November 20th, 2024, 10:00a.m.
Addendum responding to questions	Tuesday, December 3rd, 2024, 10:00a.m.
Bids due	**Friday, December 6th, 2024 2:00p.m.**
Notice of Intent to Award	Wednesday, December 11th, 2024.
Board Meeting to Award contract	Thursday, December 19th, 2024.
Anticipated Notice to Proceed	Friday, December 20th, 2024.

AD 1.03 Refer to **403 Project Manual, Section 00 11 13 – NOTICE TO BIDDERS Page 2**, **Article 1 General, Section 1.01**

Revised to Read:

Bids are due:

BID INFORMATION

Location: 5735 47th Avenue, Sacramento, CA 95824

Project No: 403
Bus Electrification & Site Improvements
ADDENDUM NO. 2

Contact: Tina Alvarez-Bevens
Date: **Friday, December 6th, 2024**
Bids Due: **2:00pm**

At this time such Bids will be opened and publicly read. Untimely Bids will not be accepted or opened.

AD 1.04 Refer to **403 Project Manual, Section 00 21 13 – INSTRUCTIONS TO BIDDERS, Section 1.01, C.**

Revised to Read:

C. Should a Bidder find discrepancies, ambiguities, inconsistencies, errors or omissions in the Bidding Documents, Contract Documents and/or applicable Federal, State, and local regulations or requirements, and/or should Bidder have any doubt about the meaning of any of the Contract Documents, the Bidder shall submit questions to Robert Aldama at robert-aldama@scusd.edu, Tina Alvarez-Bevens at tina-alvarez-bevens@scusd.edu, and Eric McMullen at Emcmullen@kitchell.com. Bidder's questions shall be submitted no later than **Wednesday, November 27th, 2024, by 10:00a.m.**

Part B – Bidder Questions

QUESTION #1: Is a contractors license A, N or B required if we (Brooke Electric, C-10) are able to self perform the concrete work, on a approved level, according to the plans specifications (sheet A1.31)?

RESPONSE: See AD1.01

QUESTION #2: Could you please clarify the 1" conduit that needs to be provided referenced to on page E1.1 Keynotes #4? Is conduit in questions existing and just needing to be rerouted from a near by location into the base of the new DC Fast Charger? Or is it going to require to be installed new, to the building? The E1.1 page does not express if it is a new install or existing?

RESPONSE: All existing conduit on the plan is shown in a light color with the word 'existing' or the abbreviation '(E)'. This 1'' conduit is new, and the contractor shall field verify if the site has an internet connection near the fast charger. Otherwise, the contractor needs to provide an underground conduit, route it close to the wall, and connect it to the wall-mounted weatherproof J-box. It should be labeled as the 'Fast Charger Internet Connection Point'.

QUESTION #3: Do you (the District) have a preferred vendor for the chargers, both DC Fast and Level 2?

RESPONSE: The district does not have a preferred vendor for the chargers.

QUESTION #4: Key Note 3/E1.1 states that the contractor shall procure and install the EV chargers but sheet A1.21 has a note calling the chargers OFCI (owner furnished contractor installed) please advise.

RESPONSE: Contractor is to furnish and install all EV Charging units. (CFCI)

QUESTION #5: Who is responsible for the commissioning and startup of the chargers?

RESPONSE: The Contractor is responsible for the startup of all units. The district will then bring on a 3rd party Commissioning Agent to commission the units.

QUESTION #6: Is an annual maintenance contract required for the chargers and is to be included in this project?

RESPONSE: No

QUESTION #7: Please explain what 2. e. Financing Requirement (12-month post construction phase) on the Mandatory Pre-Bid Conference Agenda means. I do not see anything in the Project Manual referring to financing.

RESPONSE: This is mistakenly included within the agenda and is not required for this project.

List of Attachments

AD1.05 – Bus Electrification and Site Improvements – ADDENDUM A, ADDENDUM DRAWINGS (8 Pages)

END OF ADDENDUM NO. 2

Acknowledgement of this Addendum will be required at time of bid.

HMC ARCHITECTS
2101 Capitol Avenue, Suite 100
Sacramento, California 95816

November 20, 2024

Sacramento City Unified School District
Bus Electrification Site Improvement
HMC #3186074-000
DSA # N/A

ADDENDUM A

The following changes, additions, deletions or corrections shall become a part of the Contract Documents for the project named above and all other conditions shall remain the same. The bidders shall be responsible for transmitting this information to all affected subcontractors and suppliers prior to the closing of bids.

ADDENDUM DRAWINGS (Included with this Addendum)

Item No. AD A-1: Clarify 1" Conduit on Sheet E1.1 Keynote #4

Question – "Clarify the 1" conduit that needs to be provided referenced to on page E1.1 Keynotes #4? Is conduit in questions existing and just needing to be rerouted from a nearby location into the base of the new DC Fast Charger? Or is it going to require to be installed new to the building? The E1.1 page does not express if it is a new install or existing?"

> **Response** - *All existing conduit on the site plan is shown in a light color with the word 'existing' or the abbreviation '(E)'. This 1" conduit is new, and the contractor shall field verify if the site has an internet connection near the fast charger. Otherwise, the contractor needs to provide an underground conduit, route it close to the wall, and connect it to the wall-mounted weatherproof J-box. It should be labeled as the 'Fast Charger Internet Connection Point'.*

Revised DC fast Charger per owner direction, for BorgWagner model RES-DCVC 60-480, charger and 2 Dispensers. The following modify or supplement the original drawings:

G0.10	Cover Sheet
A1.21	Revise Sheet Site Plan
A1.31	Site Details
E0.10	Symbol Legend, Abbreviations & Notes
E1.1	Electrical Site Plan
E2.1	One Line Diagram & Load Calculations
E3.1	Electrical Details & Schedules

HMC ARCHITECTS

By_____
Michael Rath, Architect of Record

THE LINE SHOWN ABOVE IS 1" LONG ON ORIGINAL PLOT. IF NOT, ADJUST SCALE ACCORDINGLY

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

ELECTRIC BUS CHARGING STATIONS

7050 SAN JOAQUIN STREET
SACRAMENTO, CA 95820

GENERAL NOTES

1. CONSTRUCTION DOCUMENTS DESCRIBE THE PRODUCTS, SYSTEMS, QUANTITIES, CONFIGURATION, AND PERFORMANCE SPECIFICATIONS THAT DELIVER THE OVERALL DESIGN INTENT OF THE PROJECT.
2. THE CONSTRUCTION DOCUMENT DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY BOTH.
3. PERFORMANCE BY THE CONSTRUCTION TEAM SHALL BE CONSISTENT WITH THE CONSTRUCTION DRAWINGS AND SPECIFICATIONS AS NECESSARY TO DELIVER THE INDICATED RESULTS OF THE DESIGN INTENT.
4. VERIFY ALL DIMENSIONS, LOCATIONS OF EXISTING UTILITIES, AND CONDITIONS ON THE JOB SITE PRIOR TO THE START OF WORK OR PORTIONS OF THE WORK. NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN THE ACTUAL FIELD CONDITIONS AND THE CONSTRUCTION DOCUMENTS. EXISTING CONDITIONS ARE INDICATED AS A RESULT OF FIELD OBSERVATIONS, INFORMATION SHOWN ON AVAILABLE DOCUMENTS AND FIELD CONDITIONS AT THE TIME OF PREPARATION.
5. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH ALL GOVERNING CODES, ORDINANCES, REGULATIONS AND LAWS.
6. THE DESIGN ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS AND SCAFFOLDING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
7. WHERE ANY CONFLICT OCCURS BETWEEN THE REQUIREMENTS OF LAWS, CODES, ORDINANCES, RULES AND REGULATIONS, THE MOST STRINGENT SHALL GOVERN.
8. IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS OR DETAILS ON THE DRAWINGS.
9. DETAILS MARKED 'TYPICAL' SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY NOTED OTHERWISE.
10. ENACT ALL MEASURES TO PROTECT AND SAFEGUARD ALL EXISTING ELEMENTS TO REMAIN FROM BEING DAMAGED. REPLACE OR REPAIR EXISTING ELEMENTS DAMAGED BY THE EXECUTION OF THIS CONTRACT TO EQUAL OR BETTER CONDITION.
11. PRIOR TO THE START OF WORK THE CONTRACTOR SHALL COORDINATE BETWEEN THE REQUIREMENTS OF ALL DISCIPLINES HEREIN AND BETWEEN THE REQUIREMENTS OF ALL DRAWINGS AND SPECIFICATIONS IN ORDER THAT ALL ITEMS SATISFACTORILY RELATE TO ONE ANOTHER. NOTIFY ARCHITECT IMMEDIATELY REGARDING ANY ITEMS THAT CANNOT BE COORDINATED.
12. CONTRACTOR SHALL EXCERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID EXISTING DUCTS, PIPING, CONDUIT, ETC. AND TO PREVENT HAZARD TO PERSONNEL AND/OR TO EXISTING UNDERGROUND UTILITIES OR STRUCTURES. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.
13. CHANGES TO THE APPROVED DRAWINGS AND/OR SPECIFICATIONS SHALL BE MADE BY ADDENDA OR A CHANGE ORDER.
14. CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH THE EXISTING OR NEW STRUCTURAL ELEMENTS SHALL NOT TO BE STARTED UNTIL THE DETAILS HAVE BEEN REVIEWED AND APPROVED BY THE ARCHITECT, AND STRUCTURAL ENGINEER OF RECORD.
15. ALL WORK SHALL CONFORM TO 2022 EDITION TITLE 24, CALIFORNIA CODE OF REGULATION (CCR).
16. THE LIMIT OF WORK LINE SHOWS THESE DRAWINGS IS AN APPROXIMATE LIMIT OF WORK ONLY. REFER TO CONSULTANT DRAWINGS FOR ADDITIONAL WORK, INCLUDING BUT NOT LIMITED TO INSTALLATION OF CONDUIT, MANHOLES, PULLBOXES, ETC WHICH ARE TO BE PART OF THIS WORK, ALTHOUGH OCCURING OUTSIDE OF SHOWN LIMIT OF WORK LINES.
17. CHANGE TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY DSA, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24 CCR.
18. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
19. FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION SHALL COMPLY WITH CBC CH. 33 AND CFC CH. 33.
25. NO DUMPING OR PLACING OF ANY DIRT OR DEBRIS SHALL BE ALLOWED OUTSIDE OF THE CONTRACTORS LIMIT OF WORK AREA.

CODES

PARTIAL LIST OF APPLICABLE CODES

2022	CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.	
2022	CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R. (2021 INTERNATIONAL BUILDING CODE VOLUMES 1 & 2 AND 2022 CALIFORNIA AMENDMENTS)	
2022	CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. (2020 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS)	
2022	CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R. (2021 UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS)	
2022	CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R. (2021 UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)	
2022	CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.	
2022	CALIFORNIA HISTORICAL BUILDING CODE (CHBC), PART 8, TITLE 24 C.C.R.	
2022	CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R. (2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)	
2022	CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 C.C.R. (2021 INTERNATIONAL EXISTING CODE AND 2022 CALIFORNIA AMENDMENTS)	
2022	CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 C.C.R.	
2022	CALIFORNIA REFERENCED STANDARDS, PART 12,TITLE 24 C.C.R.	
TITLE 19	C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.	
2019	ASME A17.1/B44-19 SAFETY CODE FOR ELEVATORS AND ESCALATORS	
2020	ASME 18.1 - SAFETY STANDARD FOR PLATFORM LIFTS AND STAIRWAY CHAIR LIFTS	

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13	STANDARD FOR AUTOMATIC FIRE SPRINKLER SYSTEMS (CA AMENDED)	2022 ED.
NFPA 14	STANDARD FOR STANDPIPE AND HOSE SYSTEMS (CA AMENDED)	2019 ED.
NFPA 17	STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS	2021 ED.
NFPA 17A	STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS	2021 ED.
NFPA 20	STANDARD FOR STATIONARY PUMPS FOR FIRE PROTECTION	2019 ED.
NFPA 22	STANDARD FOR WATER TANKS FOR PRIVATE FIRE PROTECTION	2018 ED.
NFPA 24	STANDARD FOR THE INSTALLATION OF PRIVATE FIRE MAINS AND THEIR APPURTENANCES (CA AMENDED)	2022 ED.
NFPA 72	NATIONAL FIRE ALARM & SIGNALING CODE (CA AMENDED)	2022 ED.
NFPA 80	STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES	2019 ED.
NFPA 2001	STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (CA AMENDED)	2018 ED.
UL 300	STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT	2005 (R2014)
UL 464	AUDIBLE SIGNAL APPLIANCES FOR FIRE ALARM AND SIGNALING SYSTEMS, INCLUDING ACCESSORIES	2003 ED.
UL 521	STANDARD FOR HEAT DETECTORS FOR FIRE PROTECTIVE SIGNALING SYSTEMS	1999 ED. (R2005)
UL 1971	STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED	2002 ED. (R2018)
ICC 300	STANDARD FOR BLEACHERS, FOLDING AND TELESCOPING SEATING AND GRANDSTANDS	2017 ED.

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2022 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.
SEE CALIFORNIA BUILDING CODE, CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO NFPA STANDARDS.

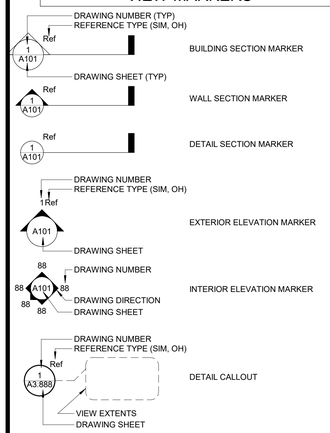
ABBREVIATIONS

(E)	EXISTING
AB	ANCHOR BOLT
AC PAVING	ASPHALTIC CONCRETE PAVING
ACC	ACCESS/ACCESSIBLE
ACP	ACOUSTICAL CEILING PANEL
ACT	ACOUSTICAL CEILING TILE
ADJ	ADJACENT/ADJUSTABLE
AFF	ABOVE FINISH FLOOR
AGG	AGGREGATE
AHU	AIR HANDLING UNIT
ARCH	ARCHITECTURAL
ATT	ATTENUATION
AUTO	AUTOMATIC
BD	BOARD
BLCG	BLOCKING
BUR	BUILT UP ROOFING
CABT	CABINET
CF	CUBIC FEET
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED, OWNER INSTALLED
CG	CORNER GUARD
CJ	CONTROL JOINT
CL	CENTER LINE
CLF	CHAIN LINK FENCE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT
COL	COLUMN
COMP	COMPRESSION / COMPOSITE
CF	CUBIC FEET
COORD	COORDINATE
CORR	CORRUGATED
CT	CERAMIC TILE
CTSK	COUNTER SKUNK
CW	CURTAINWALL
DEPR	DEPRESSED / DEPRESSION
DF	DRINKING FOUNTAIN
DIM	DIMENSION
DISP	DISPENSER
DS	DOWNSPOUT
DTL	DETAIL
DW	DISHWASHER
E/W	EACH WAY
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EJ	EXPANSION JOINT
ELEC	ELECTRICAL
ELEV	ELEVATION / ELEVATOR
ENCL	ENCLOSE / ENCLOSURE
EOS	EDGE OF SLAB
EP	ELECTRICAL PANEL
EQ	EQUAL
ESC	EXCUTCHEON
EWC	ELECTRIC WATER COOLER
EXP	EXPOSED
FA	FIRE ALARM
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER W/ CABINET
FF	FINISH FLOOR
FG	FINISH GRADE
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FSH	FLAT HEAD SCREW
FIN	FINISH
FLR	FLOOR
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FP	FIREPROOFING
FR	FIRE RATED
FRG	FIRE RATED GLASS
FRP	FIBERGLASS REINFORCED PLASTIC
FRT	FIRE RETARDANT TREATED
FS	FINISH SURFACE
FTG	FOOTING
GB	GRAB BAR
GFRC	GLASS FIBER REINFORCED CONCRETE
GL	GLASS TYPE
GLB	GLUE LAMINATED BEAM
GYP BD	GYPSUM BOARD
GYP PLAS	GYPSUM PLASTIC
HB	HOSE BIBB
HD	HEAVY DUTY
HDR	HEADER
HDWR	HARDWARE
HGT	HEIGHT
HM	HOLLOW METAL
HP	HIGH POINT
HSS	HOLLOW STEEL SECTION
ID	INSIDE DIAMTER
INT	INTERIOR
INV	INVERT
LANDS	LANDSCAPE
LAV	LAVATORY
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LP	LOW POINT
LT WT	LIGHT WEIGHT
LVR	LOUVER
MACH	MACHINE
MB	MACHINE BOLT
MDF	MEDIUM DENSITY FIBERBOARD
MDO	MEDIUM DENSITY OVERLAY
MECH	MECHANICAL
MED	MEDIUM
MEMB	MEMBRANE
MFR	MANUFACTURER
MH	MANHOLE
MO	MASONRY OPENING
MTD	MOUNTED
MTL	METAL
NIC	NOT IN CONTRACT
NR	NON RATED
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
O/	OVER
O/A	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMTER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OFVI	OWNER FURNISHED, VENDOR INSTALLED
OH	OPPOSITE HAND
OPER	OPERABLE
OPNG	OPENING
ORD	OVERFLOW ROOF DRAIN
P/L	PROPERTY LINE
PA	PUBLIC ADDRESS
PAF	POWDER ACTUATED FASTENER
PAVING	
PCC	PORTLAND CEMENT CONCRETE
PAVING	
PED	PEDESTRIAN
PERF	PERFORATED
PERIM	PERIMETER
PERP	PERPENDICULAR
PH	PANIC HARDWARE
PIV	POST INDICATOR VALVE
PL	PLATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLUMB	PLUMBING
PNL	PANEL
PNT	PAINT / PAINTED
POC	POINT OF CONNECTION
POLY ISO	POLYISOCYANURATE
PREFIN	PREFINISHED
PREP	PREP / PREPARATION
PTC	POST TENSIONED CONCRETE
PTD	PAPER TOWEL DISPENSER
PTN	PARTITION
PTS	PNEUMATIC TUBE STATION / SYSTEM
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
QT	QUARRY TILE
R	RADIUS, RISER
RB	RESILIENT BASE
RD	ROOF DRAIN
RECEPT	ECEPTACLE
REF	REFERENCE
REFL	REFLECT(ED), (IVE)
REFL	REFLECT(ED), (IVE)
REFR	REFRIGERATOR
REINF	REINFORCE/REINFORCED/ REINFORCEMENT
REM	REMOVE
RH	ROUND HEAD
RHS	ROUND HEAD SCREW
RO	ROUGH OPENING
ROW	RIGHT OF WAY
SCH	SCHEDULE (FOR PIPE)
SCHED	SCHEDULE / SCHEDULING
SD	STORM DRAIN / SOAP DISPENSER
SECT	SECTION
SG	SAFETY GLASS
SHT	SHEET
SHTG	SHEATHING
SMS	SHEET METAL SCREW
SND	SANITARY NAPKIN DISPOSAL
SOV	SHUT OFF VALVE
SPEC	SPECIFICATIONS
SS	STAINLESS STEEL
STC	SOUND TRAMISSION CLASS
STL	STEEL
STSMS	SELF TAPPING SHEET METAL SCREW
SUSP	SUSPENDED
SV	SHEET VINYL
SYM	SYMMETRICAL
T	TREAD
T&B	TOP AND BOTTOM
TO	TOP OF
TOC	TOP OF CURB / CONCRETE
TOP	TOP OF PARAPET
TOS	TOP OF STEEL
TOW	TOP OF WALL
TPD	TOILET PAPER DISPENSER
TS	TACKABLE SURFACE
U/C	UNDER CABINET (OR COUNTER
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
VAC	VACUUM
VB	VAPOR BARRIER
VCT	VINYL COMPOSITION TILE
VIF	VERIFY IN FIELD
VTR	VENT THROUGH ROOF
VWC	VINYL WALL COVERING
W/	WITH
W/O	WITHOUT
WB	WOOD BASE
WC	WATER CLOSET
WD	WOOD
WDW	WINDOW
WGT	WEIGHT
WH	WATER HEATER
WP	WATERPROOFING/WALL PROTECTION
WR	WATER RESISTANT
WRGB	WATER RESISTANT GYPSUM BOARD
WS	WOOD SCREW
WSCT	WAINSCOT
WWF	WELDED WIRE FABRIC

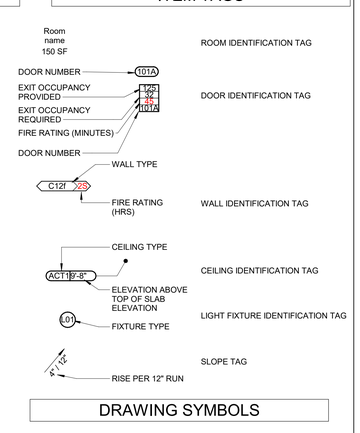
NOTE:
OTHER ABBREVIATIONS USED ON THESE DRAWINGS ARE CONSIDERED STANDARDS IN THE BUILDING INDUSTRY. CONTACT ARCHITECT FOR NECESSARY CLARIFICATION.

SYMBOL LEGEND

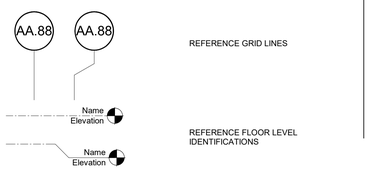
VIEW MARKERS



ITEM TAGS



DRAWING SYMBOLS



PROJECT DESCRIPTION

A

THE SCOPE OF WORK IS FOR THE ADDITION OF (4) TYPE 2 EV CHARGERS, (1) DC FAST CHARGING CONVERSION SYSTEM AND (2) DC FAST CHARGER DISPENSERS FOR ELECTRICAL BUSES ALONG WITH ACCOMPANIED SITE WORK.

DEFERRED SUBMITTAL

FABRICATION AND INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACTORS DRAWINGS, SPECIFICATIONS, AND ENGINEERING CALCULATIONS FOR THE ACTUAL SYSTEMS TO BE INSTALLED HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER AND APPROVED BY THE DSA.

1. NONE

PROJECT DATA

ADDRESS:
7050 SAN JOAQUIN STREET
SACRAMENTO, CA 95820

SHEET INDEX

STATEMENT OF GENERAL CONFORMANCE

(x) THE DRAWINGS OR SHEETS LISTED ON THE INDEX SHEET
( ) THIS DRAWING PAGE OF SPECIFICATIONS/CALCULATIONS

HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. IT HAS BEEN EXAMINED BY ME FOR:

1) DESIGN INTENT AND APPEARS TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME, AND

2) COORDINATION WITH MY PLANS AND SPECIFICATIONS AND IS ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT.

THE STATEMENT OF GENERAL CONFORMANCE "SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER SECTIONS 17302 AND 81138 OF THE EDUCATION CODE AND SECTIONS 4-336, 4-341 AND 4-344" OF TITLE 24, PART 1. (TITLE 24, PART 1, SECTION 4-317 (B))

I CERTIFY THAT:

ALL DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET ARE IN GENERAL CONFORMANCE WITH THE PROJECT DESIGN INTENT, AND THEY HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS.

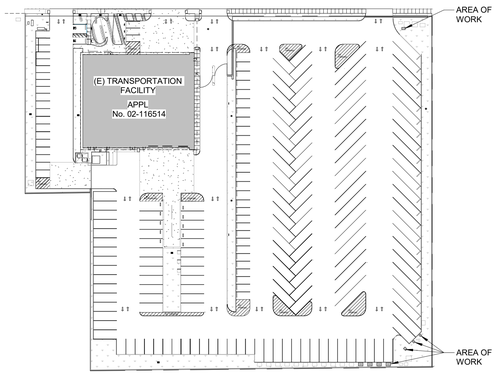
SIGNATURE — DATE 05.26.2020
ARCHITECT OR ENGINEER DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE

MICHAEL RATH — C-25193 — 07-31-21
PRINT NAME — LICENSE NUMBER — EXPIRATION DATE

STATE MAP

VICINITY MAP

OVERALL SITE PLAN



AGENCY APPROVAL:

HMC Architects
3186074-000
2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

LICENSED ARCHITECT
MICHAEL CHESTER RATH
C-25193
REN. 07/31/25
STATE OF CALIFORNIA

PROJECT TEAM

OWNER
SACRAMENTO CITY USD
5735 47TH AVENUE, SACRAMENTO, CA 95824 (916) 643-7400

ARCHITECT
HMC ARCHITECTS
2101 CAPITOL AVENUE, SUITE 100 SACRAMENTO, CA 95816 (916) 36807990
ATTN: STANLEY NG (Stanley.Ng@hmcarchitects.com)

ELECTRICAL
LP ENGINEERS
1209 PLEASANT GROVE BLVD.
ROSEVILLE CA, 95678 (916) 771-0778
ATTN: ROGER PEREZ (Robert Perez (rperez@lpengineers.com)

FACILITY:
7050 SAN JOAQUIN STREET
SACRAMENTO, CA 95820

PROJECT:
ELECTRIC BUS CHARGING STATIONS

SHEET NAME:
COVER SHEET

CONSTRUCTION DOCUMENTS

DATE: **2024-10-01** | CLIENT PROJ NO:

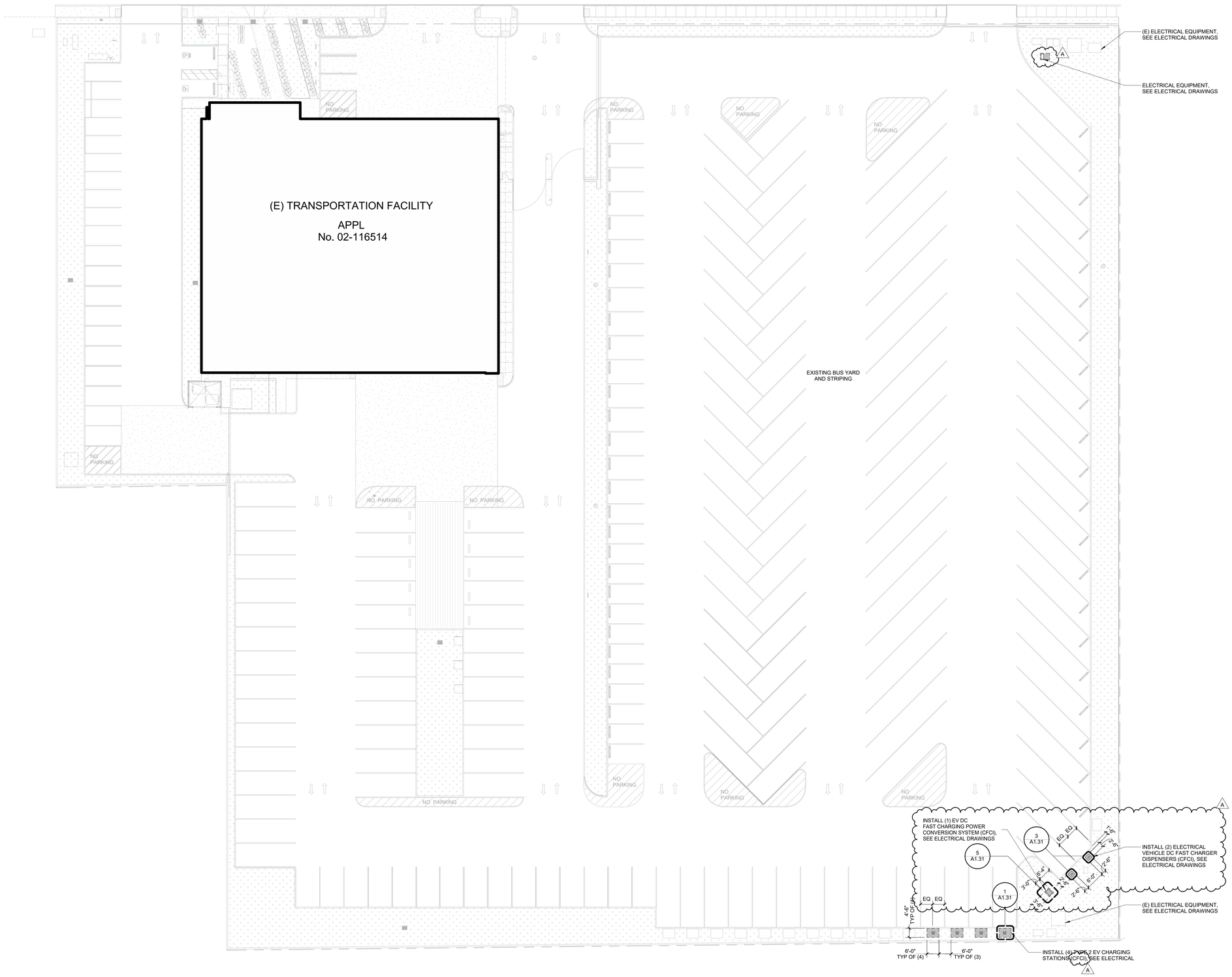
SHEET:

G0.10
ADDENDA A

11/20/2024 3:46:48 PM

PLEASE RECYCLE

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON THIS SHEET'S ORIGINAL SIZE (D)



PROJECT SITE PLAN | 1 | 1" = 20'-0"

PLEASE RECYCLE

11/20/2024 3:46:44 PM

Sacramento City Unified School District

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

7050 SAN JOAQUIN STREET
SACRAMENTO, CA 95820

HMC Architects

3186074-000

2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

LICENSED ARCHITECT
MICHAEL CHESTER RATH
C-25193
REN. 07/31/25
STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE
A	REVISED DC FAST CHARGER	11/20/2024

NOTES:

1. REFER TO SHEET G0.10 SERIES FOR TYPICAL SYMBOLS AND ABBREVIATIONS.
2. REFER TO ELECTRICAL DRAWINGS FOR UTILITY INFORMATION
3. CONTRACTORS ARE RESPONSIBLE FOR REPAIR/REPLACEMENT OF ALL HARDSCAPE/ PLANTING OUTSIDE OF LIMIT OF WORK LINE FOR CONNECTION OF UNDERGROUND UTILITIES.
4. PATCH AND REPAIR LANDSCAPE AND IRRIGATION TO MATCH EXISTING CONDITIONS
5. INFORM ARCHITECT OF ANY MISC. MODIFICATIONS DISTURBING EXISTING CONDITIONS FOR FURTHER REVIEW
6. (MM.) STANDS FOR MILLIMETER

FACILITY:

7050 SAN JOAQUIN STREET
SACRAMENTO, CA 95820

PROJECT:

ELECTRIC BUS CHARGING STATIONS

SHEET NAME:

SITE PLAN

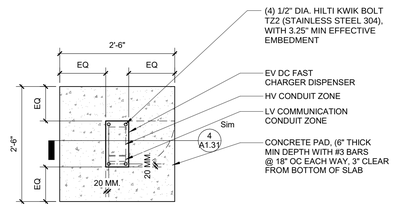
CONSTRUCTION DOCUMENTS

DATE: **2024-11-20** | CLIENT PROJ NO:

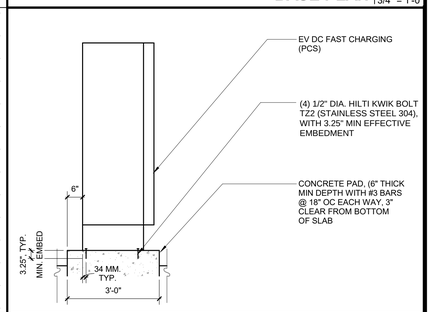
SHEET:

A1.21

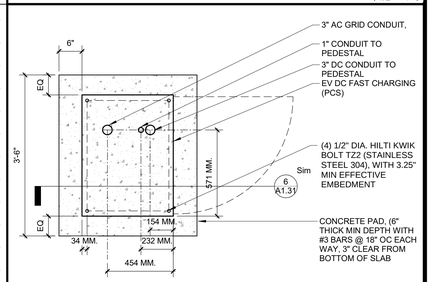
ADDENDA A



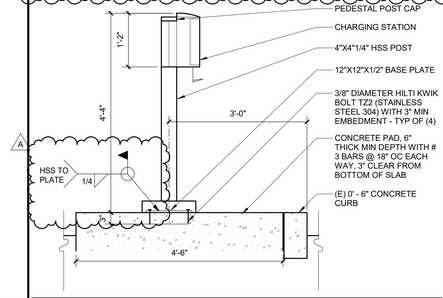
EV DC FAST CHARGER DISPENSER BASE PLAN 3 — 3/4" = 1'-0"



EV DC FAST CHARGING POWER CONVERSION SYSTEM ANCHORAGE 6 — 1/2" = 1'-0"

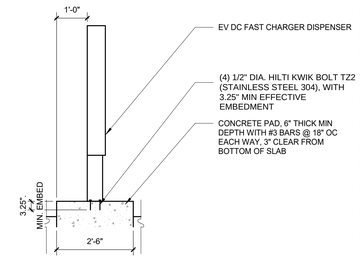


EV DC FAST CHARGING POWER CONVERSION SYSTEM BASE PLAN 5 — 3/4" = 1'-0"

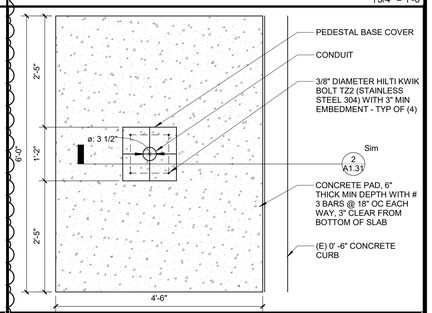


TYPE 2 EV CHARGING STATION ANCHORAGE 2 — 3/4" = 1'-0"

A



PCS DISPENSER SECTION 4 — 1/2" = 1'-0"



TYPE 2 EV CHARGING STATION PEDESTAL BASE PLAN 1 — 3/4" = 1'-0"

PLEASE RECYCLE

11/20/2024 3:46:45 PM

A

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

7050 SAN JOAQUIN STREET
SACRAMENTO, CA 95820

HMC Architects

3186074-000

2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

LICENSED ARCHITECT
MICHAEL CHESTER RATH
C-25193
REN. 07/31/25
STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE
A	REVISED DC FAST CHARGER	11/20/2024

POST INSTALLED ANCHOR NOTES

1. ANCHORS ARE TO BE INSTALLED PER ICC-ES-ESR-4266
2. PERIODIC INSPECTION REQUIRED
3. TORQUE TEST 100% OF ANCHORS TO 40 FT-LB
4. CONCRETE IS TO HAVE A MINIMUM OF 28-DAY STRENGTH OF 3,000 PSI.

NOTES:

1. REFER TO SHEET G0.10 SERIES FOR TYPICAL SYMBOLS AND ABBREVIATIONS.
2. REFER TO ELECTRICAL DRAWINGS FOR UTILITY INFORMATION
3. CONTRACTORS ARE RESPONSIBLE FOR REPAIR/REPLACEMENT OF ALL HARDSCAPE/ PLANTING OUTSIDE OF LIMIT OF WORK LINE FOR CONNECTION OF UNDERGROUND UTILITIES.
4. PATCH AND REPAIR LANDSCAPE AND IRRIGATION TO MATCH EXISTING CONDITIONS
5. INFORM ARCHITECT OF ANY MISC. MODIFICATIONS DISTURBING EXISTING CONDITIONS FOR FURTHER REVIEW
6. (MM.) STANDS FOR MILLIMETER

A

FACILITY:

7050 SAN JOAQUIN STREET
SACRAMENTO, CA 95820

PROJECT:

ELECTRIC BUS CHARGING STATIONS

SHEET NAME:

SITE DETAILS

CONSTRUCTION DOCUMENTS

DATE: **2024-11-20** | CLIENT PROJ NO:

SHEET:

A1.31
ADDENDA A

THE LINE SHOWN ABOVE IS EXACTLY 1" WHEN PLOTTED AT THIS SHEET'S ORIGINAL MADE SIZE

MEP COMPONENT ANCHORAGE NOTE

APPLICABLE CODE: 2022 CBC

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.17 THROUGH 1617A.1.20 & 1617A.1.23 AND ASCE 7–16 CHAPTERS 13, 26 AND 30:

1. ALL PERMANENT EQUIPMENT AND COMPONENTS.
2. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT THAT IS PERMANENTLY ATTACHED (E.G. HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER. "PERMANENTLY ATTACHED" SHALL INCLUDE ALL ELECTRICAL CONNECTIONS EXCEPT PLUGS FOR 110/220 VOLT RECEPTACLES HAVING A FLEXIBLE CABLE.
3. TEMPORARY, MOVABLE OR MOBILE EQUIPMENT WHICH IS HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT IS REQUIRED TO BE RESTRAINED IN A MANNER APPROVED BY DSA.

THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE BUT NEED NOT DEMONSTRATE DESIGN COMPLIANCE WITH THE REFERENCES NOTED ABOVE. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT. FLEXIBLE CONNECTIONS MUST ALLOW MOVEMENT IN BOTH TRANSVERSE AND LONGITUDINAL DIRECTIONS:

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

GENERAL NOTES

ALL GENERAL NOTES SHOWN BELOW ARE NOT NECESSARILY USED ON PLANS IF NOT REQUIRED.

1. THESE GENERAL NOTES ARE INTENDED TO ASSIST THE CONTRACTOR IN THE EXECUTION OF THE ELECTRICAL WORK AND TO BE INCLUDED IN CONJUNCTION WITH THE CONTRACT DOCUMENT DRAWINGS AND SPECIFICATION REQUIREMENTS. SOME OF THE GENERAL NOTES ARE EXCERPTS FROM THE SPECIFICATION.
2. PROCURE PERMITS AND LICENSES REQUIRED. PAY ALL NECESSARY FEES AND ARRANGE FOR INSPECTIONS REQUIRED BY LOCAL CODES, ORDINANCES, AND UTILITY COMPANIES.
3. COORDINATE ALL ELECTRICAL SERVICES WITH THE RESPECTIVE UTILITY COMPANIES AND PROVIDE ALL TRENCHING, CONDUITS, WIRING, METER FACILITIES AND OUTLETS REQUIRED BY THEM.
4. WORKMANSHIP SHALL BE OF THE HIGHEST QUALITY. DEFECTIVE EQUIPMENT OR EQUIPMENT DAMAGED IN THE COURSE OF INSTALLATION OR TEST SHALL BE REPLACED OR REPAIRED IN A MANNER MEETING WITH THE ACCEPTANCE OF THE ARCHITECT.
5. INSTALL ALL EQUIPMENT, CONDUITS, PAD, PULL BOX IN STRICT ACCORDANCE WITH THE CURRENT EDITION OF ALL APPLICABLE CODES (CEC, STATE, COUNTY, AND CITY).
6. DO NOT SCALE PLANS FOR EQUIPMENT LOCATIONS. USE FIGURED DIMENSIONS IF GIVEN OR CHECK DISTRICT PERSON IN CHARGE. ALSO REFER TO ACTUAL ON–SITE CONDITIONS.
7. ALL MATERIAL AND EQUIPMENT IS TO BE LISTED AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND CEC 110.3.
8. ALL ELECTRICAL DEVICES, EQUIPMENT, CONDUITS, AND WIRING SHOWN ON THESE PLANS ARE NEW, UNLESS OTHERWISE NOTED.
9. THE FINAL LOCATION OF ALL EQUIPMENT SHALL BE VERIFIED WITH THE ARCHITECT AND/OR DISTRICT AT TIME OF CONSTRUCTION.
10. ALL OUTDOOR ELECTRICAL EQUIPMENT SHALL BE WEATHER–PROTECTED.
11. ALL CONDUIT SHALL BE ROUTED CONCEALED UNLESS NOTED ON PLAN OR ACCEPTED BY THE ARCHITECT.
12. ALL WIRING SHALL BE INSTALLED IN RIGID METALLIC CONDUIT, UNLESS OTHERWISE NOTED. USE PVC INSTALLED UNDERGROUND AND/OR UNDER SLAB. ALL EXPOSED CONDUITS SHALL BE RIGID STEEL CONDUITS WITH THREADED TYPE FITTINGS. INSTALL ALL CONDUITS IN ACCORDANCE WITH CEC STANDARDS OF INSTALLATION.
13. ELECTRICAL NON–METALLIC TUBING (ENT) AND MC CABLE ARE NOT PERMITTED TO BE USED FOR THIS PROJECT, UNLESS ALLOWED PRIOR TO BID.
14. CONDUCTORS, #8 AND LARGER, SHALL BE STRANDED COPPER WITH THNN/THWN INSULATION, UNLESS OTHERWISE NOTED.
15. PROVIDE WORKING CLEARANCE PER CEC 110.26 FOR SERVICE SWITCHBOARD, DISTRIBUTION PANEL, TRANSFORMERS, DISCONNECT SWITCHES, CHARGERS, ETC.
16. PROVIDE A WARNING LABEL (SIGN) CLEARLY VISIBLE TO QUALIFIED PERSONS TO COMPLY WITH NEC AND CEC 110.16 OF POTENTIAL ELECTRIC ARC FLASH HAZARDS AT SWITCHBOARDS, PANELBOARDS, INDUSTRIAL CONTROL PANELS AND MOTOR CONTROL CENTERS THAT ARE LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE WHILE ENERGIZED. SERVICE EQUIPMENT SHALL BE LEGIBLY MARKED WITH THE MAXIMUM AVAILABLE FAULT CURRENT PER CEC SECTION 110.24(A).
17. MAIN SWITCHBOARDS, DISTRIBUTION SWITCHBOARDS AND CHARGERS TO COMPLY WITH CEC 110.9 AND 110.10 INTERRUPTING RATING AND BRACING. PROVIDE A.I.C. CALCULATIONS FOR SUBPANELS IF INTERRUPTING RATING TO BE USED IS LOWER THAN MAIN SERVICE RATING.
18. CONTRACTOR SHALL SIZE ALL EXTERIOR PULL BOXES AND UNDERGROUND PULL BOXES PER CEC 314.16 AND COMPLY WITH CEC 314.28 FOR INSTALLATION OF RACEWAYS AND WIRING AS REQUIRED BY CODE, UNLESS OTHERWISE NOTED.
19. WHERE ACCESSIBILITY IS NOT AVAILABLE TO ELECTRICAL OUTLETS, DEVICES AND/OR EQUIPMENT, COORDINATE WITH THE ARCHITECT FOR PROVISIONS TO PROVIDE ACCESSIBILITY TO THEM.
20. ALL TERMINATION PROVISIONS OF EQUIPMENT, INCLUDING CIRCUITS RATED 100 AMPERES OR LESS, SHALL BE RATED AT 60 DEGREE, CENTIGRADE PER CEC 110.14(c).
21. CONTRACTOR SHALL COORDINATE ALL ELECTRICAL BRANCH CIRCUITS LENGTH WITH BRANCH CIRCUIT WIRING TABLE LOCATED ON THIS SHEET AND ADJUST WIRE SIZES PER THE TABLE BASED ON DISTANCES TO ACCOUNT FOR A VOLTAGE DROP.
22. ENERGY SHALL NOT BE ALLOWED TO BE BACK FED THROUGH FROM THE CHARGING SYSTEM TO THE UTILITY SERVICE SYSTEM.
23. ELECTRICAL CONTRACTOR SHALL PROVIDE AIC LABELING ON ALL ELECTRICAL DISTRIBUTION SYSTEM.
24. PERSONNEL PROTECTION SYSTEM. THE EQUIPMENT SHALL HAVE A LISTED SYSTEM OF PROTECTION AGAINST ELECTRIC SHOCK OF PERSONNEL PER CEC 625.22.

UNDERGROUND TRENCHING NOTES

UNDERGROUND TRENCHING:

A. USE EXTREME CAUTION WHEN DIGGING TO AVOID BURIED ELECTRICAL CABLES. CALL UNDERGROUND SERVICE ALERT (U.S.A.) 800–227–2600, 48 HOURS BEFORE DIGGING

B. BEFORE START OF ANY UNDERGROUND TRENCHING FOR CONDUIT RUNS, THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH ALL PLANS OF OTHER TRADES (ARCHITECTURAL, CIVIL, LANDSCAPE), AND SITE CONDITIONS TO AVOID CONFLICT.

C. TRENCHING AND BACKFILLING SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS. COORDINATE WITH CIVIL, LANDSCAPE, AND ARCHITECTURAL SITE PLAN PRIOR TO THE TRENCHING, ETC. AND THE INSTALLATION OF THE ELECTRICAL SYSTEM.

D. ALL UNDERGROUND CONDUITS SHALL BE SCHEDULE 40 PVC, UL LISTED FOR DIRECT BURIAL, AND TERMINATED WITH FACTORY END BELL FITTINGS. ALL ELBOWS, BENDS AND TURNS TRANSITIONING TO GRADE SHALL BE INSTALLED USING PER MANUFACTURED 40–MIL PVC COATED GALVANIZED STEEL ELBOWS AND OFFSETS.

E. ALL UNDERGROUND SERVICE CONDUITS SHALL BE SEALED TO COMPLY WITH CEC 230.8.

F. PROVIDE 24" MINIMUM COVERAGE FOR UNDERGROUND CONDUITS, UNLESS OTHERWISE NOTED. THE EXCEPTION IS FOR PG&E SERVICE CONDUITS WHICH SHALL HAVE A 36" MINIMUM BURIAL DEPTH AND BE INSTALLED WITH A RED OXIDE CONCRETE CAP. MAINTAIN 12" MINIMUM SEPARATION BETWEEN THE POWER AND LOW VOLTAGE SYSTEM UNDERGROUND CONDUITS. TRENCHES SHALL ALL BE INSTALLED WITH A RED POLYETHYLENE WARNING RIBBON LABELED "ELECTRICAL", LOCATED 8" BELOW GRADE IN THE TRENCH.

G. PROVIDE UNDERGROUND TRACER WHERE NON–METAL CONDUITS ARE INSTALLED.

H. PROVIDE PARTEX IDENTIFICATION TAGS TO IDENTIFY UNDERGROUND CIRCUITS.

I. ALL UNDERGROUND SPLICES SHALL BE MADE WATERPROOF BY PROVIDING WITH "SPLICE–KOTE" SPLICE KITS OR OTHER ACCEPTED METHODS. ALL FUSEHOLDERS SHALL BE WATERTIGHT.

J. ALL UNDERGROUND RACEWAYS SHALL BE PROVIDED WITH A #8 AWG MINIMUM SIZE COPPER EQUIPMENT GROUNDING CONDUCTOR, WHETHER SHOWN ON PLAN OR NOT, UNLESS OTHERWISE NOTED.

K. THE CONTRACTOR SHALL BE RESPONSIBLE UNDER THIS CONTRACT TO REPAIR AND REPLACE ANY AND ALL DAMAGES TO EXISTING PCC WALKS, AC PAVING, UTILITIES, TREES, TURF, PLANTED AREAS, AND OTHER FACILITIES RESULTING FROM THIS PROJECT. WHEN CUTTING OR TRENCHING THROUGH EXISTING CONCRETE SIDEWALKS, DRIVEWAYS, AND WALKWAYS, THE CONTRACTOR SHALL BE REQUIRED TO COMPLETELY REPLACE ENTIRE SECTIONS OF CONCRETE PANELS FROM SCOREMARK TO SCOREMARK AFFECTED BY THE CONSTRUCTION WORK. ALL SIDEWALKS, DRIVEWAYS, AND WALKWAYS SHALL BE REPLACED TO MATCH ADJACENT CONDITION AND AS DIRECTED BY THE ARCHITECT.

ELECTRICAL SCOPE DRAWINGS

THESE ELECTRICAL DRAWINGS INDICATE THE GENERAL SCOPE OF THE PROJECT IN TERMS OF ELECTRICAL DESIGN CONCEPT, MAJOR ELECTRICAL ELEMENTS, AND THE TYPE OF ELECTRICAL SYSTEMS. AS SCOPE DOCUMENTS, THESE DRAWINGS DO NOT NECESSARILY INDICATE OR DESCRIBE ALL WORK REQUIRED FOR FULL PERFORMANCE AND COMPLETION OF THE REQUIREMENTS. ON THE BASIS OF THE GENERAL SCOPE INDICATED OR DESCRIBED, THE CONTRACTOR SHALL FURNISH ALL ITEMS REQUIRED FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK.

THE PROJECT CONSISTS OF ADDING NEW EV–BUS CHARGERS, LOCATED IN THE EXISTING TRANSPORTATION YARD. A

INSTALLING FOUR (4) LEVEL 2 CHARGERS, AND ONE (1) FAST CHARGER WITH TWO DISPENSERS.
NEW CHARGERS TO BE CONNECTED TO THE EXISTING 600A, 277/480V, 3 PHASE ELECTRICAL SERVICE.
THE ONE (1) FAST CHARGER TO BE FED FROM THE EXISTING 480V MAIN SWITCHBOARD AND WILL PROVIDE DC POWER TO TWO DISPENSERS, WHICH WILL OPERATE SEQUENTIALLY.
THE FOUR (4) LEVEL 2 CHARGERS TO BE FED FROM THE EXISTING 208V DISTRIBUTION SWITCHBOARD.

ELECTRICAL SHEET INDEX

ELECTRICAL SYMBOL LEGEND

ALL SYMBOLS SHOWN IN THIS LEGEND ARE NOT NECESSARILY USED ON PLANS IF NOT REQUIRED.

SYMBOL	DESCRIPTION
	MAIN SWITCHBOARD OR DISTRIBUTION PANEL,AS NOTED
	RECESSED MOUNTED LIGHTING OR DISTRIBUTION PANEL
	SURFACE MOUNTED LIGHTING OR DISTRIBUTION PANEL
	RECESSED TERMINAL CABINET w/ ¾"C., PLYWOOD BACKBOARD, DUPLEX RECEPTACLE & #6 CU GND, UON.
	SURFACE MOUNTED TERMINAL CABINET w/ ¾"C., PLYWOOD BACKBOARD, DUPLEX RECEPTACLE & #6 CU GND, UON.
T	DISTRIBUTION TRANSFORMER, MOUNTING AND SIZE AS NOTED
	NON-FUSED DISCONNECT SWITCH
	ENCLOSED CIRCUIT BREAKER DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH; SIZE DISCONNECT AND FUSES PER UNIT LABEL
	POWER CONNECTION
	DUPLEX RECEPTACLE OUTLET 20A, 120V, @ +16" TO BOTTOM OF BOX, UNO.
	DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER TOP. +44" TO TOP FOR FORWARD REACH, AND +46" TO TOP FOR SIDE REACH, PER CBC 11B-308.
	ISOLATED GROUND DUPLEX RECEPTACLE, 20A, 120V @ +16" TO BOTTOM OF BOX, UNO.
	DEDICATED DUPLEX RECEPTACLE OUTLET 20A, 120V, @ +16" TO BOTTOM OF BOX, UNO.
	GFCI DUPLEX RECEPTACLE OUTLET 20A, 120V, @ +16" TO BOTTOM OF BOX, UNO.
(N) PANEL "A" 100A	PANEL IDENTIFICATION
100A 3P	CIRCUIT BREAKER
	GROUND
	UNDERGROUND TERMINATION SERVICE LUG
M	UTILITY METER
M	UTILITY METER WITH C.T. COMPARTMENT METER SOCKET
	TRANSFORMER WITH GROUND
	UFER GROUND
	BOND TO COLD WATER PIPE, GAS PIPE, BUILDING STEEL
	NEUTRAL LINK
J	JUNCTION BOX - SIZE AS REQUIRED BY CODE.
	MECHANICAL EQUIPMENT I.D.,TAG - MP&S
	CIRCUIT CONCEALED IN CEILING OR WALL W/(2) #12 THWN/THHN AND #12 CU EQUIPMENT GROUND, UON.
	CIRCUIT CONCEALED IN FLOOR OR UNDERGROUND W/(2) #12 THWN/THHN AND #12 CU EQUIPMENT GROUND, UON.
	HOMERUN TO PANELBOARD OR TERMINAL CABINET W/ CONDUCTORS AS NOTED
	ISOLATED GROUND WIRE IN ADDITION TO EQUIPMENT GROUND WIRE.
	DENOTES # OF #12 WIRES,NO MARKS = 2 #12,1/2"C.
	CURVED HATCH DENOTES GROUND WIRE. OTHERS AS NOTED
	FLEXIBLE CONDUIT, 6'-0" LONG MAX. W/ #12 CU GROUND UON.
	CONDUIT RISER - UP
	CONDUIT DROP - DOWN
XX	KEY NOTE SHOWN ON SAME SHEET
1 E-1	DETAIL DESIGNATION,TOP LETTER INDICATES DETAIL. BOTTOM LETTER/NUMBER INDICATES SHEET

ELECTRICAL ABBREVIATIONS

SYMBOL	DESCRIPTIONS
A/AMP	AMPERES
AC	ALTERNATING CURRENT
AFF	ABOVE FINISHED FLOOR
AFC	ABOVE FINISHED CEILING
AFG	ABOVE FINISHED GRADE
AIC	AMPERES INTERRUPTING CAPACITY (SYMMETRICAL)
C	CONDUIT
CCT	CIRCUIT
CKT	CIRCUIT
DC	DIRECT CURRENT
(E)	EXISTING TO REMAIN
EC	EMPTY CONDUIT
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
FACP	FIRE ALARM CONTROL PANEL
FLA	FULL LOAD AMPS
FLEX	FLEXIBLE METALLIC CONDUIT
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND/G	GROUND
HP	HORSEPOWER
IG	ISOLATED GROUND
J–BOX	JUNCTION BOX
KVA	KILOVOLT–AMPS
KW	KILOWATTS
LTG	LIGHTING
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUGS ONLY
MTD	MOUNTED
(N)	NEW
N	NEUTRAL CONDUCTOR (GROUNDED CIRCUIT CONDUCTOR)
N.I.E.S.	NOT IN ELECTRICAL SCOPE OR SPECIFICATIONS
NL	NIGHT LIGHT
PH/P	PHASE OR POLE
PNL	PANELBOARD
PVC	POLYVINYL CHLORIDE CONDUIT (SCHEDULE 40)
(R)	RELOCATE/RELOCATED
RECEP	RECEPTACLE
RGSC	RIGID GALVANIZED STEEL CONDUIT
U	UNSWITCHED
UNO	UNLESS NOTED OTHERWISE
V	VOLTAGE OR VOLTS
W	WATTS
WP	WEATHERPROOF
WPU	WEATHERPROOF WHILE IN USE
(X)	REMOVE
XFMR	TRANSFORMER

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

7058 SAN JOAQUIN STREET
SACRAMENTO, CA 95820

HMC Architects

3186062-000

2495 NATOMAS PARK DRIVE, STUDIO 100
SACRAMENTO, CA 95833
916 325 1100 / www.hmcarchitects.com

ISSUE

Δ	DESCRIPTION	DATE
	100% CD SUBMITTAL	10/18/2024
A	ADDENDUM	11/20/2024

CONSULTING ENGINEERS

MEP & FS / Sustainability / CxA

1209 Pleasant Grove Blvd.
Roseville, CA 95678
p 916-771-0778

www.lpengineers.com
Job #: 24-2169

REGISTERED PROFESSIONAL ENGINEER — TRAMI S. ZEIDAN — No. E 16782 — Exp. 9/30/26 — ELECTRICAL — STATE OF CALIFORNIA

FACILITY:

7058 SAN JOAQUIN STREET
SACRAMENTO, CA 95820

PROJECT:

ELECTRIC BUS CHARGING STATIONS

SHEET NAME:

SYMBOL LEGEND, ABBREVIATIONS & NOTES

CONSTRUCTION DOCUMENTS

FILE NO.: XX-XX | A NO.: XX-XXXXXX

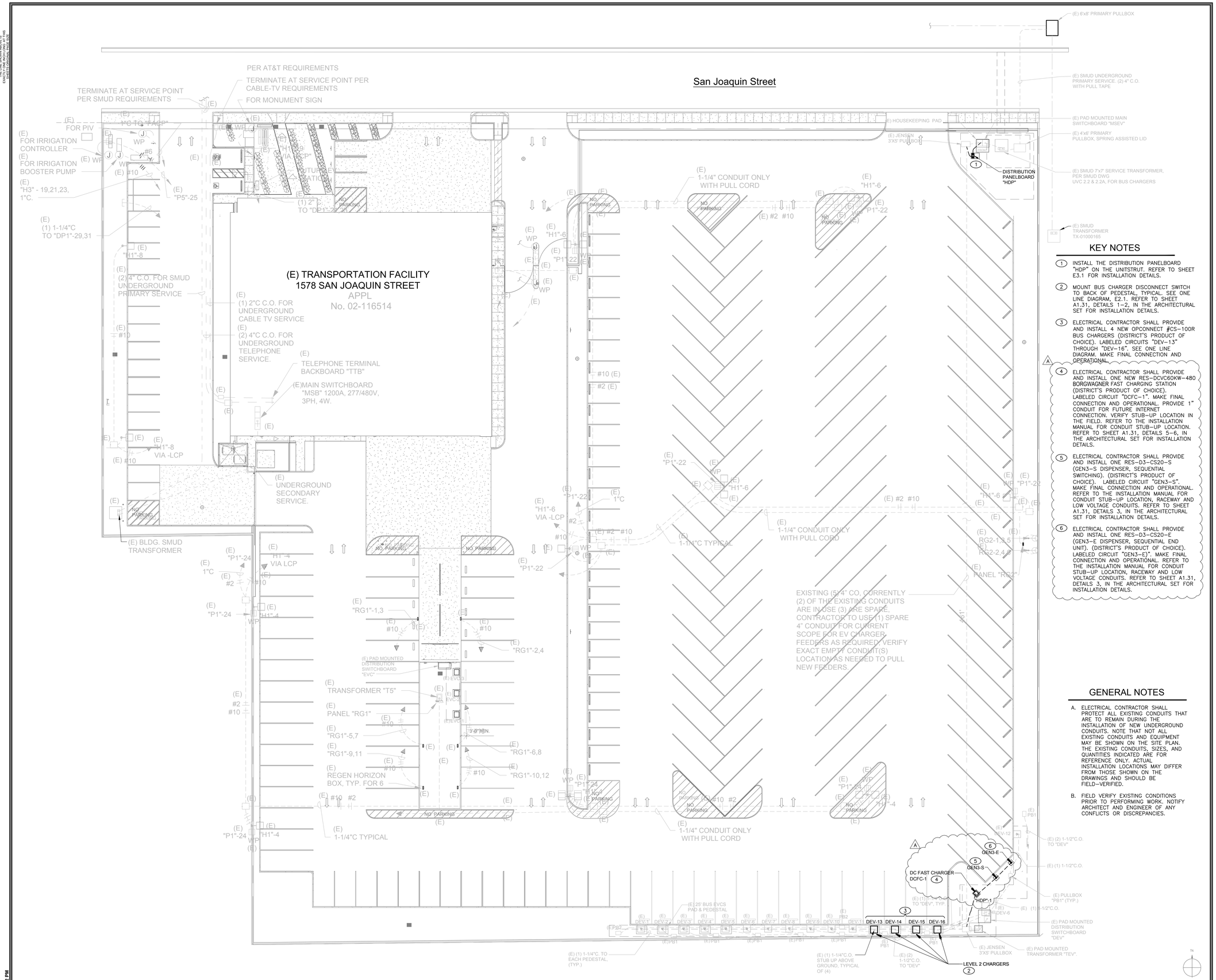
DATE: **2024-11-20** | CLIENT PROJ NO:

SHEET:

E0.1
ADDENDA A

6/6/2025 12:03:22 PM

PLEASE RECYCLE



KEY NOTES

1. INSTALL THE DISTRIBUTION PANELBOARD "HDP" ON THE UNITSTRUT. REFER TO SHEET E3.1 FOR INSTALLATION DETAILS.
2. MOUNT BUS CHARGER DISCONNECT SWITCH TO BACK OF PEDESTAL, TYPICAL. SEE ONE LINE DIAGRAM, E2.1. REFER TO SHEET A1.31, DETAILS 1–2, IN THE ARCHITECTURAL SET FOR INSTALLATION DETAILS.
3. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL 4 NEW OPCONNECT #CS–100R BUS CHARGERS (DISTRICT'S PRODUCT OF CHOICE). LABELED CIRCUITS "DEV–13" THROUGH "DEV–16". SEE ONE LINE DIAGRAM. MAKE FINAL CONNECTION AND OPERATIONAL.

A

4. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ONE NEW RES–DCVC60KW–480 BORGWAGNER FAST CHARGING STATION (DISTRICT'S PRODUCT OF CHOICE). LABELED CIRCUIT "DCFC–1". MAKE FINAL CONNECTION AND OPERATIONAL. PROVIDE 1" CONDUIT FOR FUTURE INTERNET CONNECTION. VERIFY STUB–UP LOCATION IN THE FIELD. REFER TO THE INSTALLATION MANUAL FOR CONDUIT STUB–UP LOCATION. REFER TO SHEET A1.31, DETAILS 5–6, IN THE ARCHITECTURAL SET FOR INSTALLATION DETAILS.
5. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ONE RES–D3–CS20–S (GEN3–S DISPENSER, SEQUENTIAL SWITCHING). (DISTRICT'S PRODUCT OF CHOICE). LABELED CIRCUIT "GEN3–S". MAKE FINAL CONNECTION AND OPERATIONAL. REFER TO THE INSTALLATION MANUAL FOR CONDUIT STUB–UP LOCATION, RACEWAY AND LOW VOLTAGE CONDUITS. REFER TO SHEET A1.31, DETAILS 3, IN THE ARCHITECTURAL SET FOR INSTALLATION DETAILS.
6. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ONE RES–D3–CS20–E (GEN3–E DISPENSER, SEQUENTIAL END UNIT). (DISTRICT'S PRODUCT OF CHOICE). LABELED CIRCUIT "GEN3–E". MAKE FINAL CONNECTION AND OPERATIONAL. REFER TO THE INSTALLATION MANUAL FOR CONDUIT STUB–UP LOCATION, RACEWAY AND LOW VOLTAGE CONDUITS. REFER TO SHEET A1.31, DETAILS 3, IN THE ARCHITECTURAL SET FOR INSTALLATION DETAILS.

GENERAL NOTES

A. ELECTRICAL CONTRACTOR SHALL PROTECT ALL EXISTING CONDUITS THAT ARE TO REMAIN DURING THE INSTALLATION OF NEW UNDERGROUND CONDUITS. NOTE THAT NOT ALL EXISTING CONDUITS AND EQUIPMENT MAY BE SHOWN ON THE SITE PLAN. THE EXISTING CONDUITS, SIZES, AND QUANTITIES INDICATED ARE FOR REFERENCE ONLY. ACTUAL INSTALLATION LOCATIONS MAY DIFFER FROM THOSE SHOWN ON THE DRAWINGS AND SHOULD BE FIELD–VERIFIED.

B. FIELD VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING WORK. NOTIFY ARCHITECT AND ENGINEER OF ANY CONFLICTS OR DISCREPANCIES.

ELECTRICAL SITE PLAN 1 — 1" = 20'-0"

PLEASE RECYCLE

6/6/2024 12:03:22 PM

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

7058 SAN JOAQUIN STREET
SACRAMENTO, CA 95820

HMC Architects
3186062-000
2495 NATOMAS PARK DRIVE, STUDIO 100
SACRAMENTO, CA 95833
916 325 1100 / www.hmcarchitects.com

ISSUE

Δ	DESCRIPTION	DATE
	100% CD SUBMITTAL	10/18/2024
A	ADDENDUM	11/20/2024

CONSULTING ENGINEERS
MEP & FS / Sustainability / CxA
1209 Pleasant Grove Blvd.
Roseville, CA 95678
p 916-771-0778
www.lpengineers.com
Job #: 24-2169

REGISTERED PROFESSIONAL ENGINEER — RAMI S. ZEIDAN — No. E 16762 — Exp. 9/30/26 — ELECTRICAL — STATE OF CALIFORNIA

FACILITY:

7058 SAN JOAQUIN STREET
SACRAMENTO, CA 95820

PROJECT:

ELECTRIC BUS CHARGING STATIONS

SHEET NAME:

ELECTRICAL SITE PLAN

CONSTRUCTION DOCUMENTS

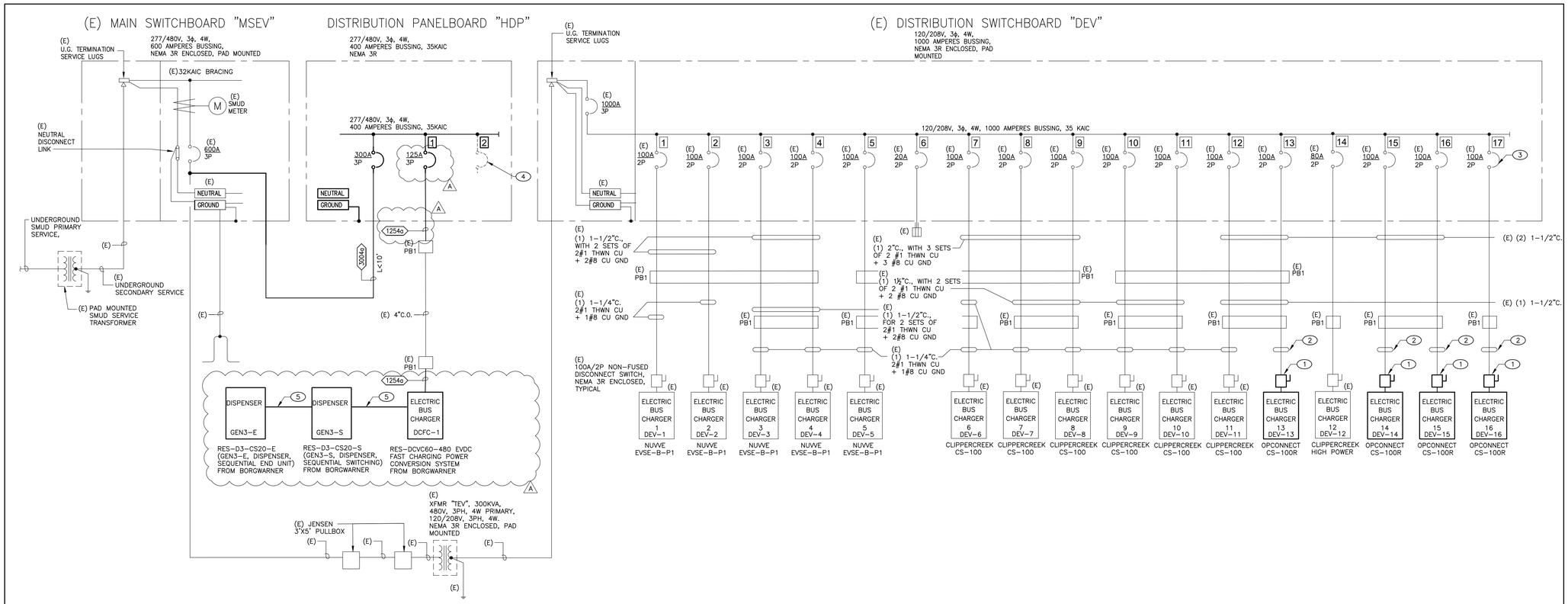
FILE NO.: XX-XX — A NO.: XX-XXXXXX

DATE: **2024-11-20** — CLIENT PROJ NO:

SHEET:

E1.1
ADDENDA A

THE LINE SHOWN ABOVE IS EXACTLY 1" LONG ON ANSI SIZE D DRAWINGS. IF NOT, DRAWING IS NOT ORIGINAL MADE SIZE.



(E) ONE-LINE DIAGRAM - (E) MAIN SWITCHBOARD "MSEV" AND "DEV" — NTS — 1

GENERAL NOTES

A. PROVIDE A WARNING LABEL (SIGN) CLEARLY VISIBLE TO QUALIFIED PERSONS TO COMPLY WITH CEC 116.16 AND NFPA–70E–2000 OF POTENTIAL ELECTRIC ARC FLASH HAZARDS AT SWITCHBOARD, PANELBOARDS, AND INDUSTRIAL CONTROL PANELS THAT ARE LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE WHILE ENERGIZED.

KEY NOTES

1. PROVIDE 100A/2P NON–FUSED DISCONNECT SWITCH, NEMA 3R ENCLOSED. INSTALL LOCKABLE ON DISCONNECT SWITCH TO BACKSIDE OF PEDESTAL GROUND ALL METAL PARTS OF PEDESTAL AND CHARGER BACK TO MAIN SWITCHBOARD "DEV".
2. EXISTING 1–1/4"C.O. PULL 2#1 THWN CU + 1#8 CU GND.
3. CONNECT NEW LEVEL 2 CHARGERS TO THE EXISTING 100A, 2P BREAKERS. (TYP)
4. MAKE PROVISIONS FOR (3)125A/3P FRAME SIZE SPACES.
5. PROVIDE A 3" CONDUIT FOR DC POWER CONDUCTORS AND A 1.25" CONDUIT FOR LOW VOLTAGE AND COMMUNICATION CONDUCTORS. REFER TO THE INSTALLATION MANUAL FOR DETAILS REGARDING RACEWAYS AND WIRE TYPES.

VOLTAGE DROP CALCULATIONS

Project: Name

Note: Enter Nominal Conductor Sizes except as below:
1/0 = 101, 2/0 = 102, 3/0 = 103, 4/0 = 104

Circuit			Raceway	Conductor				Load		Line-to-Neutral		Line-to-Line	
Designation	Voltage	Phase	Metalic (M) or Non-Metalic (NM)	Material (AL) or (CU)	Nominal Size	Parallel Runs	Length in Feet	AMPS	Pow er Factor	Volt Drop	%	Volt Drop	%
DCFC-1	480	3	NM	CU	2	1	500	64.0	80%			9.92	2.07
DEV-13	208	1	NM	CU	1	1	80	89.0		0.66	0.31		
DEV-14	208	1	NM	CU	1	1	70	89.0		0.57	0.28		
DEV-15	208	1	NM	CU	1	1	60	89.0		0.49	0.24		
DEV-16	208	1	NM	CU	1	1	50	89.0		0.41	0.20		

These Voltage Drop Calculations are made in accordance with Table 9 of Chapter 9 of the National Electrical Code.

EXISTING ELECTRICAL "MSEV" LOAD CALCULATION

EXISTING PEAK DEMAND LOAD FOR THE PAST 12 MONTHS 87 KW/0.9pf						
(SOURCE: PER DISTRICT CHAMBERLAIN'S EMAIL DATED 7/21/24.)						**97.0 KVA**
PLUS 25% OF EXISTING DEMAND LOAD						**24.3 KVA**
TOTAL EXISTING DEMAND LOAD					=	**121.3 KVA**
ADD NEW LOAD						
NEW CHARGERS	~~16.64 KW/.9pf =~~	~~18.5~~	**kvA ea**	**X**	~~4~~	~~74.0 KVA~~
NEW FAST CHARGER	**60 KW/.9pf =**	**66.7**	**kvA ea**	**X**	**1**	**66.7 KVA**
TOTAL ADDED LOAD					=	**140.7 KVA**
EXISTING AND ADDED TOTAL SERVICE LOAD					=	**261.9 kvA**

261.9 KVA @ 277/480 VOLT , 3 PHASE = 315 AMPERES

THEREFORE: EXISTING MAIN 600 AMP SERVICE HAS THE CAPACITY FOR THE NEW ADDED LOAD.

PLEASE RECYCLE

6/8/2020 12:03:22 PM

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

7058 SAN JOAQUIN STREET
SACRAMENTO, CA 95820

HMC Architects

3186062-000

2495 NATOMAS PARK DRIVE, STUDIO 100
SACRAMENTO, CA 95833
916 325 1100 / www.hmcarchitects.com

ISSUE

Δ	DESCRIPTION	DATE
	100% CD SUBMITTAL	10/18/2024
A	ADDENDUM	11/20/2024

CONSULTING ENGINEERS

MEP & FS / Sustainability / CxA

1209 Pleasant Grove Blvd,
Roseville, CA 95678
p 916-771-0778

www.lpengineers.com
Job #: 24-2169

REGISTERED PROFESSIONAL ENGINEER — RAMI S. ZEIDAN — No. E 16782 — Exp. 9/30/26 — ELECTRICAL — STATE OF CALIFORNIA

FACILITY:

7058 SAN JOAQUIN STREET
SACRAMENTO, CA 95820

PROJECT:

ELECTRIC BUS CHARGING STATIONS

SHEET NAME:

ONE LINE DIAGRAM & LOAD CALCULATIONS

CONSTRUCTION DOCUMENTS

FILE NO.: XX-XX | A NO.: XX-XXXXXX

DATE: **2024-11-20** | CLIENT PROJ NO:

SHEET:

E2.1
ADDENDA A

THE LINE SHOWN ABOVE IS 1" LONG WHEN PLOTTED AT ANSI SIZE D DRAWING. IF NOT, ADJUST PLOT SCALE ACCORDINGLY.

ONE LINE DIAGRAM FEEDER SCHEDULE

3Ø, 3W + GND CIRCUITS

FEEDER TAG	RATING	CONDUIT		PHASE CONDUCTORS	EQUIP. GND. CONDUCTOR (EGC)
		EMT	PVC		
	(AMPS)			(COPPER)	(NEC TABLE 250.122)
203	20	3/4"C	1"C	(3) #12	#12
253	25	3/4"C	1"C	(3) #10	#10
303	30	3/4"C	1"C	(3) #10	#10
403	40	3/4"C	1"C	(3) #8	#10
453	45	1"C	1"C	(3) #6	#10
503	50	1"C	1"C	(3) #6	#10
603	60	1-1/4"C	1-1/4"C	(3) #4	#10
703	70	1-1/4"C	1-1/4"C	(3) #4	#8
803	80	1-1/4"C	1-1/2"C	(3) #2	#8
903	90	1-1/4"C	1-1/2"C	(3) #2	#8
1003	100	1-1/2"C	2"C	(3) #1	#8
1253	125	1-1/2"C	2"C	(3) #1	#6
1503	150	2"C	2"C	(3) #1/0	#6
1753	175	2"C	2"C	(3) #2/0	#6
2003	200	2"C	2-1/2"C	(3) #3/0	#6
2253	225	2-1/2"C	2-1/2"C	(3) #4/0	#4
2503	250	2-1/2"C	3"C	(3) #250 KCMIL	#4
3003	300	3"C	3"C	(3) #350 KCMIL	#4
3503	350	3"C	3-1/2"C	(3) #500 KCMIL	#3
4003	400	(2) 2"C	(2) 2-1/2"C	(3) #3/0 (EACH)	#3 (EACH)
4503	450	(2) 2-1/2"C	(2) 2-1/2"C	(3) #4/0 (EACH)	#2 (EACH)
5003	500	(2) 2-1/2"C	(2) 3"C	(3) #250 KCMIL (EACH)	#2 (EACH)
6003	600	(2) 3"C	(2) 3"C	(3) #350 KCMIL (EACH)	#1 (EACH)
7003	700	(2) 3"C	(2) 3-1/2"C	(3) #500 KCMIL	#1/0 (EACH)
8003	800	(3) 2-1/2"C	(3) 3"C	(3) #300 KCMIL (EACH)	#1/0 (EACH)
10003	1000	(3) 3"C	(3) 3-1/2"C	(3) #400 KCMIL (EACH)	#2/0 (EACH)
12003	1200	(4) 3"C	(4) 3"C	(3) #350 KCMIL (EACH)	#3/0 (EACH)
16003	1600	(5) 3"C	(5) 3-1/2"C	(3) #400 KCMIL (EACH)	#4/0 (EACH)
20003	2000	(6) 3"C	(6) 3-1/2"C	(3) #400 KCMIL (EACH)	#250 KCMIL (EACH)
25003	2500	(7) 3"C	(7) 3-1/2"C	(3) #500 KCMIL (EACH)	#350 KCMIL (EACH)
30003	3000	(8) 3"C	(8) 3-1/2"C	(3) #500 KCMIL (EACH)	#400 KCMIL (EACH)
40003	4000	(10) 3-1/2"C	(10) 4"C	(3) #600 KCMIL (EACH)	#500 KCMIL (EACH)

3Ø, 4W + GND CIRCUITS

FEEDER TAG	RATING	CONDUIT		PHASE, NEUTRAL CONDUCTORS	EQUIP. GND. CONDUCTOR (EGC)
		EMT	PVC		
	(AMPS)			(COPPER)	(NEC TABLE 250.122)
204	20	3/4"C	1"C	(4) #12	#12
254	25	3/4"C	1"C	(4) #10	#10
304	30	3/4"C	1"C	(4) #10	#10
404	40	1"C	1"C	(4) #8	#10
454	45	1"C	1-1/4"C	(4) #6	#10
504	50	1"C	1-1/4"C	(4) #6	#10
604	60	1-1/4"C	1-1/4"C	(4) #4	#10
704	70	1-1/4"C	1-1/4"C	(4) #4	#8
804	80	1-1/2"C	1-1/2"C	(4) #2	#8
904	90	1-1/2"C	1-1/2"C	(4) #2	#8
1004	100	2"C	2"C	(4) #1	#8
1254	125	2"C	2"C	(4) #1	#6
1504	150	2"C	2"C	(4) #1/0	#6
1754	175	2"C	2-1/2"C	(4) #2/0	#6
2004	200	2-1/2"C	2-1/2"C	(4) #3/0	#6
2254	225	2-1/2"C	3"C	(4) #4/0	#4
2504	250	2-1/2"C	3"C	(4) #250 KCMIL	#4
3004	300	3"C	3-1/2"C	(4) #350 KCMIL	#4
3504	350	3-1/2"C	4"C	(4) #500 KCMIL	#3
4004	400	(2) 2-1/2"C	(2) 2-1/2"C	(4) #3/0 (EACH)	#3 (EACH)
4504	450	(2) 2-1/2"C	(2) 3"C	(4) #4/0 (EACH)	#2 (EACH)
5004	500	(2) 2-1/2"C	(2) 3"C	(4) #250 KCMIL (EACH)	#2 (EACH)
6004	600	(2) 3"C	(2) 3-1/2"C	(4) #350 KCMIL (EACH)	#1 (EACH)
7004	700	(2) 3-1/2"C	(2) 4"C	(4) #500 KCMIL	#1/0 (EACH)
8004	800	(3) 3"C	(3) 3-1/2"C	(4) #300 KCMIL (EACH)	#1/0 (EACH)
10004	1000	(3) 3"C	(3) 3-1/2"C	(4) #400 KCMIL (EACH)	#2/0 (EACH)
12004	1200	(4) 3"C	(4) 3-1/2"C	(4) #350 KCMIL (EACH)	#3/0 (EACH)
16004	1600	(5) 3"C	(5) 3-1/2"C	(4) #400 KCMIL (EACH)	#4/0 (EACH)
20004	2000	(6) 3"C	(6) 3-1/2"C	(4) #400 KCMIL (EACH)	#250 KCMIL (EACH)
25004	2500	(7) 3-1/2"C	(7) 4"C	(4) #500 KCMIL (EACH)	#350 KCMIL (EACH)
30004	3000	(8) 3-1/2"C	(8) 4"C	(4) #500 KCMIL (EACH)	#400 KCMIL (EACH)
40004	4000	(10) 4"C	(10) 4"C	(4) #600 KCMIL (EACH)	#500 KCMIL (EACH)

3Ø, 3W + GND CIRCUITS ADJUSTED FOR VOLTAGE DROP

3Ø, 4W + GND CIRCUITS ADJUSTED FOR VOLTAGE DROP (A)

1254a	125	2"C	(E) 4"C (N) 3"C	(3) #1+1#4 N	#4
3004a	300	3"C	3-1/2"C	(4) #350 KCMIL	#1

NOTES:

A. ALL CONDUCTORS SHALL BE DUAL RATED THHN/THWN, 90°/75°, 600V, COPPER WHERE INSTALLED UNDERGROUND OR IN WET LOCATIONS.

B. CONDUCTOR SIZES ARE BASED ON 2020 NEC TABLE 310.16, COPPER.

C. ALL CIRCUITS 100A AND LOWER ARE SIZED FROM THE 60° COLUMN (NEC 110.14(C)). ALL OTHER CIRCUITS ARE SIZED FROM THE 75° COLUMN.

D. PVC CONDUIT HAS BEEN SIZED BASED ON TABLE C.1 - SCHEDULE 80.

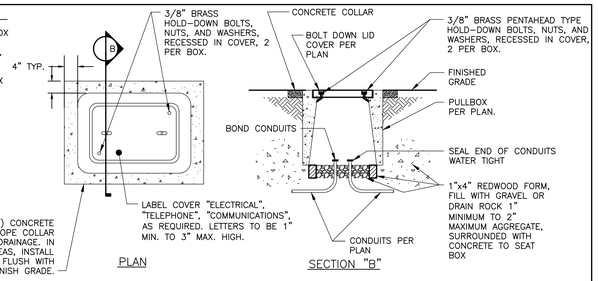
E. WHERE UNGROUNDED CONDUCTORS ARE INCREASED FROM THE MINIMUM SIZE DUE TO VOLTAGE DROP, THE EGC SHALL BE UPSIZED PROPORTIONATELY ACCORDING TO CIRCULAR MIL (NEC 250.122(B)).

MISCELLANEOUS

PS	PRIMARY SERVICE	N/A		PULL STRING	N/A
SEC	SECONDARY SERVICE				N/A
EXIST	EXISTING FEEDER			(E) CONDUCTORS	(E)

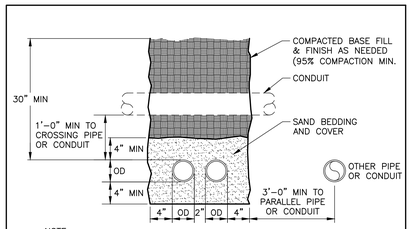
NOTES:

1. ALL SPLICES WITH-IN THE CONCRETE PULLBOX ARE TO BE SEALED WITH AN INSULATING AND ENCAPSULATING RESIN PACK, SCOTCHCAST 4 OR EQUAL.
2. ALL CONDUIT WITHIN THE CONCRETE PULLBOX ARE TO BE SEALED WITH RTV DUCT SEAL TO PREVENT WATER ENTERING CONDUIT SYSTEM.
3. ALL CONDUCTORS AND CABLES ARE TO BE GROUPED AND WIRE TIED EVERY 6" PER CONDUIT FILL.
4. PROVIDE TWO 12" EXTENSION RINGS UNLESS NOTED OTHERWISE



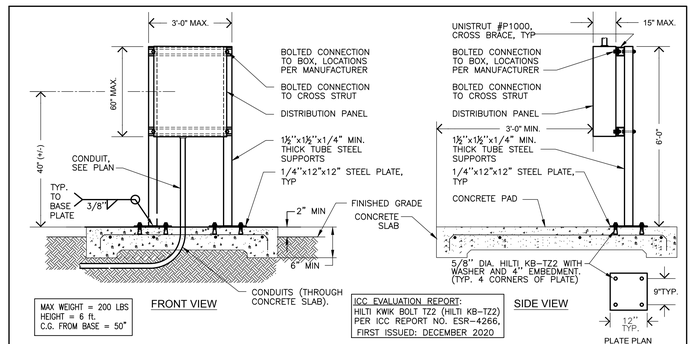
E10EG002B

TYPICAL UNDERGROUND CONCRETE PULLBOX DETAIL — NTS — 1



NOTE:
TRENCHING LOCATED IN PAVED AREAS – ALL EARTHWORK AND REPAIR SHALL BE IN ACCORDANCE WITH AGENCY THAT HAS JURISDICTION.

TYPICAL TRENCH DETAIL — NTS — 2



DISTRIBUTION PANEL MOUNTING — NTS — 3

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

7058 SAN JOAQUIN STREET
SACRAMENTO, CA 95820

HMC Architects

3186062-000

2495 NATOMAS PARK DRIVE, STUDIO 100
SACRAMENTO, CA 95833
916 325 1100 / www.hmcarchitects.com

ISSUE

Δ	DESCRIPTION	DATE
	100% CD SUBMITTAL	10/18/2024
A	ADDENDUM	11/20/2024

LP CONSULTING ENGINEERS

MEP & FS / Sustainability / CxA

1209 Pleasant Grove Blvd.
Roseville, CA 95678
p 916-771-0778

www.lpengineers.com
Job #: 24-2169

REGISTERED PROFESSIONAL ENGINEER — RAMI S. ZEIDAN — No. E 16758 — Exp. 9/30/26 — ELECTRICAL — STATE OF CALIFORNIA

FACILITY:

7058 SAN JOAQUIN STREET
SACRAMENTO, CA 95820

PROJECT:

ELECTRIC BUS CHARGING STATIONS

SHEET NAME:

ELECTRICAL DETAILS & SCHEDULES

CONSTRUCTION DOCUMENTS

FILE NO.: XX-XX — A NO.: XX-XXXXXX

DATE: **2024-11-20** — CLIENT PROJ NO:

SHEET:

E3.1
ADDENDA A

6/8/2020 12:03:22 PM

PLEASE RECYCLE