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

EL MONTE UNION HIGH SCHOOL DISTRICT

EMUSD ARROYO HS - ELECTRICAL UPGRADE WITH MECHANICAL YARD EXTENSION

4921 Cedar Ave
El Monte, CA 91732



DESIGN FOR GOOD
HMC Architects
3361-008-103
633 W. 5TH STREET, THIRD FLOOR,
LOS ANGELES, CA, 90071
213 542 8300 / www.hmcarchitects.com

LICENSED ARCHITECT
VIRGINIA ELAINE MARQUARDT
No. C-33423
06/30/2027
STATE OF CALIFORNIA

PROJECT TEAM

OWNER
EL MONTE UNION HS DISTRICT
3537 JOHNSON AVE. EL MONTE, CA 91731
626 444 9005

ARCHITECT
HMC ARCHITECTS
633 W. 5TH ST. THIRD FLR, LOS ANGELES, CA 90071
213 542 8300

STRUCTURAL
SAIFUL BOUQUET
225 BROADWAY, SUITE 1300, SAN DIEGO, CA 92101
619 630 9199

CIVIL
VCA ENGINEERS
631 S. ATLANTIC BLVD, MONTERREY PARK, CA 91754
323 729 6098

ELECTRICAL
GLUMAC
707 WILSHIRE BLVD. 23RD FLR. LOS ANGELES, CA 90017
213 239 8866

FACILITY:

4921 Cedar Ave
El Monte, CA 91732

PROJECT:

EMUSD ARROYO HS - ELECTRICAL UPGRADE WITH MECHANICAL YARD EXTENSION

SHEET NAME:

COVER SHEET

BID SET

100% CONSTRUCTION DOCUMENTS

DATE: **2026.10.19**

CLIENT PROJ NO: **3361-008-103**

SHEET:

G0.10

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PLEASE RECYCLE

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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 EXERCISE 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. 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.
14. ALL WORK SHALL CONFORM TO 2025 EDITION TITLE 24, CALIFORNIA CODE OF REGULATION (CCR)
15. 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 OCCURRING OUTSIDE OF SHOWN LIMIT OF WORK LINES.
16. FABRICATION AND INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACTOR'S 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.
17. CHANGES 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. A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR. INSPECTOR TO BE CLASS 3.
19. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT. THE REPORTS SHALL BE SUBMITTED TO ARCHITECT OF RECORD, STRUCTURAL ENGINEER OF RECORD, OWNER, INSPECTOR OR RECORD, AND THE DSA FIELD ENGINEER. THE REPORTS OF ANY FAILURES OF TESTS AND INSPECTIONS ARE TO BE SUBMITTED TO DSA DISTRICT STRUCTURAL ENGINEER.
20. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
21. SAFETY DURING CONSTRUCTION SHALL COMPLY WITH CFC CHAPTER 33.
22. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION, OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE DSA APPROVED CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR,. A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24, CCR)
23. CONTRACTOR IS TO REVIEW AND COMPLY WITH ALL REQUIREMENTS AND MITIGATION MEASURES SET FORTH IN BOTH THE ENVIRONMENTAL IMPACT REPORT (ADDENDUM TO THE ENVIRONMENTAL IMPACT REPORT | SCH NO. 2002071120) INCLUDING ATTACHED BIOLOGICAL RESOURCES TECHNICAL REPORT.
24. 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

2025	CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
2025	CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R. (2024 INTERNATIONAL BUILDING CODE VOLUMES 1 & 2 AND 2016 CALIFORNIA AMENDMENTS)
2025	CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. (2023 NATIONAL ELECTRICAL CODE AND 2025 CALIFORNIA AMENDMENTS)
2025	CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R. (2021 UNIFORM MECHANICAL CODE AND 2025 CALIFORNIA AMENDMENTS)
2025	CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R. (2021 UNIFORM PLUMBING CODE AND 2016 CALIFORNIA AMENDMENTS)
2025	CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.
2025	CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R. (2021 INTERNATIONAL FIRE CODE AND 2025 CALIFORNIA AMENDMENTS)
2025	CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR (2021 INTERNATIONAL EXISTING CODE AND 2025 CALIFORNIA AMENDMENTS)
2025	CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 C.C.R.
2025	CALIFORNIA REFERENCED STANDARDS, PART 12,TITLE 24 C.C.R.
TITLE 19	C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS
2025	ASME A17.1/B44-13 SAFETY CODE FOR ELEVATORS AND ESCALATORS

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 13	STANDARD FOR AUTOMATIC FIRE SPRINKLER SYSTEMS (CA AMENDED)	2016 ED.
NFPA 14	STANDARD FOR STANDPIPE AND HOSE SYSTEMS	2013 ED.
NFPA 17	STANDARD FOR DRY CHEMICAL EXTINGUISHING SYSTEMS	2013 ED.
NFPA 17A	STANDARD FOR WET CHEMICAL EXTINGUISHING SYSTEMS	2013 ED.
NFPA 20	STANDARD FOR STATIONARY PUMPS FOR FIRE PROTECTION	2016 ED.
NFPA 22	STANDARD FOR WATER TANKS FOR PRIVATE FIRE PROTECTION	2013 ED.
NFPA 24	STANDARD FOR THE INSTALLATION OF PRIVATE FIRE MAINS AND THEIR APPURTENANCES	2016 ED.
NFPA 72	NATIONAL FIRE ALARM & SIGNALING CODE (CA AMENDED)	2016 ED.
NFPA 80	STANDARD FOR FIRE DOORS AND OTHER OPENING PROTECTIVES	2016 ED.
NFPA 2001	STANDARD ON CLEAN AGENT FIRE EXTINGUISHING SYSTEMS	2015 ED.
UL 300	STANDARD FOR FIRE TESTING OF FIRE EXTINGUISHING SYSTEMS FOR PROTECTION OF COMMERCIAL COOKING EQUIPMENT	2005 (R2010)
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.
UL 1971	STANDARD FOR SIGNALING DEVICES FOR THE HEARING IMPAIRED	2002 ED.
ICC 300	STANDARD FOR BLEACHERS, FOLDING AND TELESCOPING SEATING AND GRANDSTANDS	2012 ED.

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2016 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.
SEE CALIFORNIA BUILDING CODE, CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO NFPA STANDARDS.

STATEMENT OF GENERAL CONFORMANCE

THE DRAWINGS IDENTIFIED AS FOLLOWS:
(X) ALL DRAWINGS SHEETS INCLUDED IN THIS SET NOT BEARING MY STAMP AND SIGNATURE.

HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND AUTHORIZED TO PREPARE SUCH DRAWINGS (PLANS) IN THIS STATE. THEY HAVE 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 DRAWINGS (PLANS) AND SPECIFICATIONS AND IS ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT.

PER TITLE 24, PART 1, SECTION 4-316 (b): THIS 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.

Virginia Marquardt — SIGNATURE
ARCHITECT OR ENGINEER DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE
Virginia Marquardt — PRINT NAME
C-33423 — LICENSE NUMBER
06.30.2027 — EXPIRATION DATE
2026.10.19 — DATE

LICENSED ARCHITECT — VIRGINIA ELAINE MARQUARDT — No. C-33423 — 06/30/2027 — RENEWAL DATE — STATE OF CALIFORNIA

PROJECT DESCRIPTION

SCOPE OF WORK

- EXTENSION OF THE EXISTING CMU MECHANICAL YARD
- TRENCHING THROUGH ASPHALT, CONCRETE, AND TURF FOR A NEW CONDUIT RUN
- NEW ELECTRICAL TRANSFORMER, SWITCH GEAR, AND PANELS WITHIN THE MECHANICAL YARD
- NEW CHAIN LINK FENCE AND CONCRETE CURB
- PATCHING AND REPAIR OF EXISTING ASPHALT PAVING

PROJECT DATA

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SHEET INDEX

NUMBER	NAME
GENERAL SHEET	
G0.10	COVER SHEET
G0.11	PROJECT DATA SHEET
G1.11	CODE SITE PLAN
3	
CIVIL	
C-1.0	GENERAL NOTES, LEGENDS, AND ABBREVIATIONS
C-1.1	EXISTING CONDITIONS
CD-1.0	ENLARGED SITE DEMOLITION PLAN
CD-1.1	ENLARGED SITE DEMOLITION PLAN
C-2.0	ENLARGED SITE CONTROL PLAN
C-2.1	ENLARGED SITE CONTROL PLAN
C-3.0	ENLARGED SITE GRADING PLAN
C-3.1	ENLARGED SITE GRADING PLAN
C-4.0	ENLARGED SITE UTILITY PLAN
C-4.1	ENLARGED SITE UTILITY PLAN
C-5.0	MISCELLANEOUS DETAILS
11	
ARCHITECTURE	
A1.01	SITE DEMOLITION PLAN
A1.11	CAMPUS SITE PLAN
A7.11	ENLARGED PLAN - SERVICE YARD
A8.10	SERVICE YARD - ELEVATIONS
4	
STRUCTURAL	
S0.01	GENERAL NOTES
S1.00	DETAILS
2	
ELECTRICAL	
E0.01	ELECTRICAL LEGEND AND ABBREVIATIONS
E1.00	ELECTRICAL CAMPUS SITE PLAN
E2.01	ENLARGED ELECTRICAL PLAN
E5.01	ELECTRICAL SINGLE LINE DIAGRAM
E9.01	ELECTRICAL DETAILS
E9.02	ELECTRICAL DETAILS
E9.03	ELECTRICAL DETAILS
E9.04	SCE PRELIMINARY DESIGN (FOR REFERENCE ONLY)
E9.05	SCE PRELIMINARY DESIGN (FOR REFERENCE ONLY)
9	
Grand total: 29	

DESIGN FOR GOOD
HMC Architects
3361-008-103
633 W. 5TH STREET, THIRD FLOOR,
LOS ANGELES, CA, 90071
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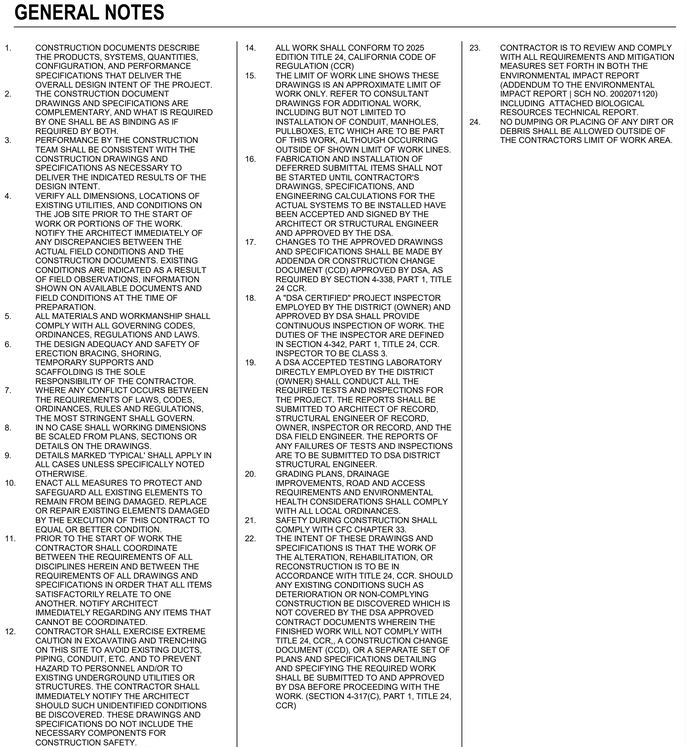
LICENSED ARCHITECT — VIRGINIA ELAINE MARQUARDT — No. C-33423 — 06/30/2027 — RENEWAL DATE — STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE
	DSA SUBMITTAL	03/04/26
	DSA BACKCHECK	10/19/26

KEYNOTES

SYMBOL LEGEND



DISCIPLINE

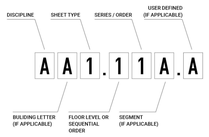
G	GENERAL
C	CIVIL
L	LANDSCAPE
A	ARCHITECTURE
I	INTERIORS
Q	EQUIPMENT
S	STRUCTURAL
P	PLUMBING
M	MECHANICAL
E	ELECTRICAL
FA	FIRE ALARM
T	TELECOM
AV	AV EQUIPMENT
K	KITCHEN
FP	FIRE PROTECTION

SHEET TYPE

0	CODE ANALYSIS, NOTES
1	SITE PLAN
2	FLOOR PLAN
3	CEILING PLAN
4	ROOF PLAN
5	EXTERIOR ELEVATIONS
6	SECTIONS
7	ENLARGED PLANS
8	INTERIOR ELEVATIONS
9	SCHEDULES
10	DETAILS

BUILDING LETTER, SEGMENT, (USER DEFINED)

USED ONLY IF REQUIRED. IF NOT, COLUMN IS OMITTED.



ABBREVIATIONS

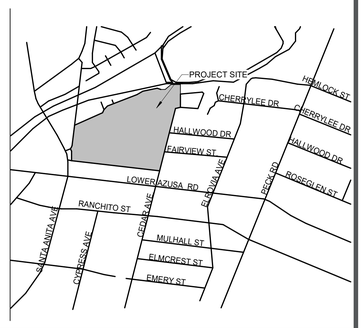
(E)	EXISTING
AB	ANCHOR BOLT
AC PAVING	ASPHALTIC CONCRETE PAVING
ACC	ACCESS/ACCESSIBLE
ACP	ACOUSTICAL CEILING PANEL
ACT	ACOUSTICAL CEILING TILE
ADJ	ADJACENT/ADJUSTABLE
AFF	ABOVE FINISH FLOOR
AGG	AGGREGATE
AHU	AIR HANDLING UNIT
ARCH	ARCHITECTURAL
ATT	ATTENUATION
AUTO	AUTOMATIC
BD	BOARD
BLCG	BLOCKING
BUR	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 SUNK
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	ESCUTCHEON
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 DIAMETER
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 DIAMETER
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
PCC	PAVING PORTLAND CEMENT CONCRETE
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	RECEPTACLE
REF	REFERENCE
REFL	REFLECTE(D), (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 TRANSMISSION 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.

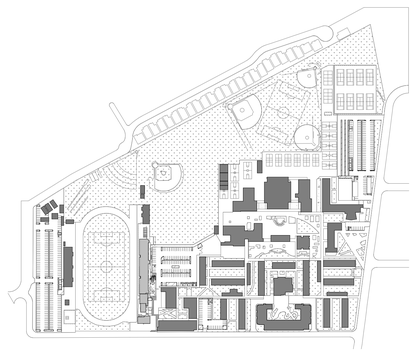
STATE MAP



VICINITY MAP



OVERALL SITE PLAN



TN

NOTES

FACILITY:

4921 Cedar Ave
El Monte, CA 91732

PROJECT:

EMUSD ARROYO HS - ELECTRICAL UPGRADE WITH MECHANICAL YARD EXTENSION

SHEET NAME:

PROJECT DATA SHEET

100% CONSTRUCTION DOCUMENTS

DATE: **2026.10.19**

CLIENT PROJ NO: **3361-008-103**

SHEET:

G0.11

BID SET

PLEASE RECYCLE

Autodesk Docs://3361008103 EMUSD Arroyo Electrical Upgrades Plug5 R26\3361008103-A-SITE.rvt
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PK 5

THE LINE SHOWN ABOVE IS EQUAL TO 5 INCHES ON ALL SHEETS ORIGINAL PAGE SIZE

DESIGN PROFESIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT

THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS MEET THE REQUIREMENTS OF THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE (CBC) ACCESSIBLITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS, AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEIMATES COMPONENTS OF PORTIONS OF THE POT THAT WERE DETERMINED TO BE NON COMPLIANT WITH THE CBC HAVE BEEN IDENTIFIED AND THE CORRECTIVE WORK NECESSARY TO BRING THE INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS, AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS, OR PORTIONS OF THE POT WHAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHHOLD LIMITATIONS OR A FINDING OF UNRESANOBLE HARDSHIP ARE INDICATED IN THESE CONSTUCTION DOCUMENTS.

DURING CONSTRUCTION IF POT ITEMS WHITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CBC COMPLIANT ARE FOUND TO BE NONCONFORMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THE ITEMS SHALL BE BROGHT INTO COMPLIANCE WITH THE CBC AS PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION DOCUMENT.

FOR ACCESSIBLE PATH OF TRAVEL COMPLIANCE OF EXISTING CAMPUS, SEE DSA APPLICATION 03-108334.

PARKING COUNT

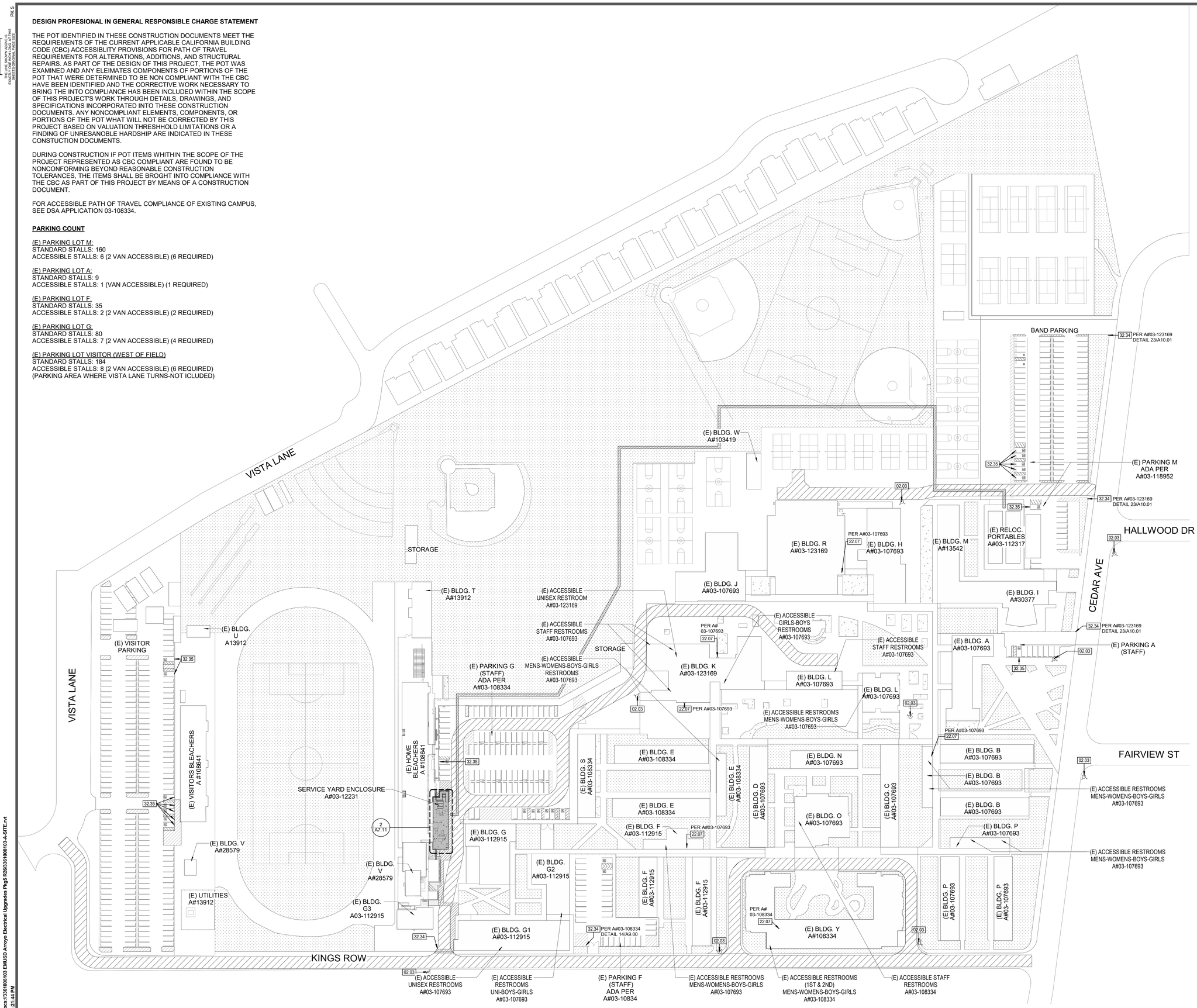
(E) PARKING LOT M:
STANDARD STALLS: 160
ACCESSIBLE STALLS: 6 (2 VAN ACCESSIBLE) (6 REQUIRED)

(E) PARKING LOT A:
STANDARD STALLS: 9
ACCESSIBLE STALLS: 1 (VAN ACCESSIBLE) (1 REQUIRED)

(E) PARKING LOT F:
STANDARD STALLS: 35
ACCESSIBLE STALLS: 2 (2 VAN ACCESSIBLE) (2 REQUIRED)

(E) PARKING LOT G:
STANDARD STALLS: 80
ACCESSIBLE STALLS: 7 (2 VAN ACCESSIBLE) (4 REQUIRED)

(E) PARKING LOT VISITOR (WEST OF FIELD)
STANDARD STALLS: 184
ACCESSIBLE STALLS: 8 (2 VAN ACCESSIBLE) (6 REQUIRED)
(PARKING AREA WHERE VISTA LANE TURNS-NOT ICLUDED)



- ARCHITECTURAL SITE PLAN - 1
1" = 60'-0"

PLEASE RECYCLE

Autodesk Docs://3361008103 EMUSD Arroyo Electrical Upgrades Pkg5 R26/3361008103-A-SITE.rvt
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HMC Architects
DESIGN FOR GOOD
3361-008-103
633 W. 5TH STREET, THIRD FLOOR,
LOS ANGELES, CA. 90071
213 542 8300 / www.hmcarchitects.com

LICENSED ARCHITECT
VIRGINIA ELAINE MARQUARDT
No. C-33423
06/30/2027
STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE
	DSA SUBMITTAL	03/04/26
	DSA BACKCHECK	10/19/26

KEYNOTES

02.03	(E) FIRE HYDRANT
22.07	(E) HIGH & LOW DRINKING FOUNTAIN
32.34	(E) TOW-AWAY SIGNAGE | 10/A10.01
32.35	(E) ADA PARKING STALL SIGNAGE

NOTES

LEGEND

- (E) PARKING LOT STRIPING
- EXISTING MECHANICAL YARD IN SCOPE
- EXISTING BUILDING(S) & STRUCTURE(S) NOT IN SCOPE
- ACCESSIBLE RESTROOMS
- TRENCHES - SEE CIVIL AND ELECTRICAL PLANS FOR DETAILS
- (E) TURF
- APPROXIMATE LIMIT OF WORK. REFER TO ADDITIONAL DRAWINGS FOR WORK WHICH MAY EXTEND BEYOND THIS APPROXIMATE LIMIT OF WORK LINE.

FACILITY:

4921 Cedar Ave
El Monte, CA 91732

PROJECT:

EMUSD ARROYO HS - ELECTRICAL UPGRADE WITH MECHANICAL YARD EXTENSION

SHEET NAME:

CODE SITE PLAN

100% CONSTRUCTION DOCUMENTS

DATE: **2026.10.19** | CLIENT PROJ NO: **3361-008-103**

SHEET:

G1.11

BID SET

THE LINE BROWN ABOVE IS EXACTLY ONE INCH LONG ON ALL SHEETS ORIGINAL PAGE SIZE

GENERAL NOTES:

1. ALL WORK PERFORMED IN THIS CONTRACT SHALL CONFORM TO:
   - A. PROJECT SPECIFICATIONS.
   - B. THE LATEST EDITION AND SUPPLEMENTS OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC) AND AMERICAN PUBLIC WORKS ASSOCIATION (APWA).
   - C. EL MONTE UNION HIGH SCHOOL DISTRICT STANDARDS AND SPECIFICATIONS.
   - D. 2022 CALIFORNIA BUILDING CODE, OR LATEST VERSION.
2. ALL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE WORK SPECIFIED ON THE DRAWINGS AND WITHIN THE VARIOUS NOTES SHOWN HEREIN.
3. THE EXISTING CONDITIONS SHOWN DIAGRAMMATICALLY ON THE PLANS ORIGINATED FROM AS BUILT DRAWINGS AND FIELD SURVEY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE JOB SITE AND VERIFY THE EXACT EXISTING CONDITIONS UNLESS CONCEALED BEFORE SUBMITTING HIS BID. ANY DISCREPANCY SHALL BE REPORTED IMMEDIATELY TO THE DISTRICT USING THE PROPER REQUEST FOR INFORMATION FORMS PRIOR TO SUBMITTING HIS BID FOR PROPER ACTION.
4. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES IN THE AREA OF WORK WHICH ARE NOT INCLUDED IN THIS CONSTRUCTION. ANY DAMAGE RESULTING FROM THIS WORK SHALL BE REPAIRED AND/OR REPLACED AT NO ADDITIONAL COST TO THE DISTRICT.

UNDERGROUND SERVICE ALERT:

5. BEFORE COMMENCING ANY EXCAVATION, THE CONTRACTOR SHALL OBTAIN AN UNDERGROUND SERVICE ALERT INQUIRY I.D. NUMBER BY CALLING 1-800-422-4133. TWO (2) WORKING DAYS SHALL BE ALLOWED AFTER THE I.D. NUMBER IS OBTAINED AND BEFORE THE EXCAVATION WORK IS STARTED THAT UTILITY OWNERS CAN BE NOTIFIED.

PROTECTION AND RESTORATION OF EXISTING IMPROVEMENTS:

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PUBLIC AND PRIVATE PROPERTY ADJACENT TO THE WORK PER SPPWC SECTION 7-9 OF THE STANDARD SPECIFICATIONS.

REMOVALS:

7. EXISTING STRUCTURES AND SUBSTRUCTURES WHICH ARE INDICATED TO BE REMOVED IN THIS CONSTRUCTION DOCUMENTS SHALL BE TOTALLY REMOVED AND DISPOSED OF OFFSITE, UNLESS OTHERWISE INDICATED. EXISTING FACILITIES WHICH ARE DISCOVERED DURING CONSTRUCTION (INCLUDING WALLS, FOOTINGS AND FOUNDATIONS) SHALL BE REPORTED TO AND COORDINATED WITH THE DISTRICT AS TO THEIR REMOVAL. CONTRACTOR WILL NOTIFY THE DISTRICT IN WRITING PRIOR TO COMMENCING THE WORK.
8. ALL SITE PREPARATION AS INDICATED SHALL BE MADE UNDER THE CONTINUOUS INSPECTION OF THE INSPECTOR OF RECORD (IOR) AND OWNER AUTHORIZED REPRESENTATIVE (OAR). SECURE THE REQUIRED PERMIT FROM THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY FOR THE CONSTRUCTION OF TRENCHES, SHORING OR EXCAVATIONS WHICH ARE 5 FEET OR DEEPER OR WORK THAT MAY JEOPARDIZE THE WORKERS. SHORING CALCULATIONS SHALL BE PROVIDED AS REQUIRED FOR APPROVAL AND PERMITTING.
9. THE CONTRACTOR SHALL KEEP THE CONSTRUCTION AREA SUFFICIENTLY DAMPENED TO CONTROL DUST CAUSED BY WORK ACTIVITIES AS REQUIRED BY THE DISTRICT AND JURISDICTIONAL AGENCY.
10. ALL WORK IN THE PUBLIC RIGHT OF WAY REQUIRES APPROVAL BY THE JURISDICTIONAL AGENCY DEPARTMENT OF PUBLIC WORKS / TRAFFIC AND TRANSPORTATION DEPARTMENTS BEFORE CONSTRUCTION BEGINS. CONTRACTOR SHALL SECURE AND PAY FOR ANY PERMIT INCLUDING UTILITY CONNECTIONS REQUIRED PRIOR TO CONSTRUCTION.
11. ALL FILL OR BACKFILL SHALL BE COMPACTED TO A MINIMUM 95% RELATIVE COMPACTION.
12. CONSTRUCTION STAKING AND ADJUSTMENTS FOR IMPROVEMENTS SHOWN ON THESE PLANS SHALL BE PERFORMED BY A LICENSED LAND SURVEYOR PAID FOR BY THE CONTRACTOR AND INCLUDED IN THE CONTRACT.
13. VOIDS RESULTING FROM REMOVAL WORK SHALL BE FILLED WITH SUITABLE MATERIALS APPROVED BY THE DISTRICT RETAINED GEOTECHNICAL ENGINEER AND COMPACTED TO AT LEAST 95% MAXIMUM DENSITY PER ASTM D-1557.
14. CONSTRUCT OFFSITE WORK TO COMPLY WITH THE REQUIREMENTS OF THE LOCAL GOVERNING AGENCY. SECURE AND PAY FOR REQUIRED CONSTRUCTION PERMITS.
15. IF EXISTING UTILITIES ARE EXPOSED OR DETERMINED TO EXIST UNDER THE CONSTRUCTION LIMITS, CONTRACTOR SHALL PROVIDE A FLAGGED STAKE THAT INDICATES THEIR LOCATION, TYPE OF UTILITY, SIZE, PIPE MATERIAL AND DEPTH. STAKES SHALL BE INSTALLED NO LESS THAN 50' ON CENTER ON STRAIGHT LINES AND AT BENDS.
16. MAINTAIN A RECORD OF LOCATION OF UTILITY MARKERS ON THE AS-BUILT PLAN AND REINSTALL THEM AFTER PAVING. REPLACE BENT OR UNUSABLE MARKERS FOR ALL UTILITY LINES DISCOVERED WITHIN THE WORK AREA. INSTALL BRASS UTILITY MARKERS INDICATING DIRECTIONS OF LINES AT ALL CHANGES IN DIRECTIONS AFTER PAVING. INFORM THE SURVEYOR TO LOCATE AND RECORD ACTUAL LOCATIONS.
17. UNCLOG, CLEAN AND FLUSH THE WORK AREA DRAINAGE SYSTEM AFTER PAVING AND IMMEDIATELY BEFORE A RAIN FORECAST.
18. ALL GRADING AND CONSTRUCTION ACTIVITIES SHALL COMPLY WITH THE LOCAL GOVERNING AGENCY'S PUBLIC WORKS DEPARTMENT, THAT CONTROLS AND RESTRICTS NOISE FROM THE USE OF CONSTRUCTION AND GRADING EQUIPMENT FROM THE HOURS OF 8:00PM TO 6:30AM, AND ON SUNDAYS AND HOLIDAYS. (MORE RESTRICTIVE CONSTRUCTION ACTIVITY TIMES MAY GOVERN, AS REQUIRED BY THE DEPARTMENT OF REGIONAL PLANNING AND SHOULD BE SHOWN ON THE GRADING PLANS WHEN APPLICABLE.)
19. CALIFORNIA PUBLIC RESOURCES CODE (SECTION 5097.98) AND HEALTH AND SAFETY CODE (SECTION 7050.5) ADDRESS THE DISCOVERY AND DISPOSITION OF HUMAN REMAINS. IN THE EVENT OF DISCOVERY OR RECOGNITION OF ANY HUMAN REMAINS IN ANY LOCATION OTHER THAN A DEDICATED CEMETERY, THE LAW REQUIRES THAT GRADING IMMEDIATELY STOPS AND NO FURTHER EXCAVATION OF DISTURBANCE OF THE SITE, OR ANY NEARBY AREA WHERE HUMAN REMAINS MAY BE LOCATED, OCCUR UNTIL THE FOLLOWING MEASURES HAVE BEEN TAKEN:
   - A. THE COUNTY CORONER HAS BEEN INFORMED AND HAS DETERMINED THAT NO INVESTIGATION OF THE CAUSE OF DEATH IS REQUIRED AND,
   - B. IF THE REMAINS ARE OF NATIVE AMERICAN ORIGIN, THE DESCENDANTS FROM THE DECEASED NATIVE AMERICANS HAVE MADE A RECOMMENDATION FOR THE MEANS OF TREATING OR DISPOSING, WITH APPROPRIATE DIGNITY, OF THE HUMAN REMAINS AND ANY ASSOCIATED GRAVE GOODS.
20. ALL EXPORT OF MATERIAL FROM THE SITE MUST GO TO A PERMITTED SITE APPROVED BY INSPECTOR OF RECORD OR A LEGAL DUMPSITE. RECEIPTS FOR ACCEPTANCE OF EXCESS MATERIAL BY A DUMPSITE ARE REQUIRED AND MUST BE PROVIDED TO THE INSPECTOR OF RECORD UPON REQUEST.
21. ANY ADDITIONAL SURVEYS OR TESTING AS A RESULT OF CONTRACTOR ERROR OR MISINFORMATION WILL BE CHARGED TO THE CONTRACTOR.
22. SITE BOUNDARIES, EASEMENTS, DRAINAGE DEVICES, RESTRICTED USE AREAS SHALL BE LOCATED PER CONSTRUCTION STAKING BY A LICENSED SURVEYOR. PRIOR TO GRADING, AS REQUESTED BY THE INSPECTOR OF RECORD, ALL PROPERTY LINES, EASEMENTS, AND RESTRICTED USE AREAS SHALL BE STAKED.
23. A COPY OF THE APPROVED GRADING PLANS MUST BE IN THE POSSESSION OF A RESPONSIBLE PERSON AND AVAILABLE AT THE SITE AT ALL TIMES.
24. THE CONTRACTOR SHALL PREPARE, PAY, AND FILE FOR A SWPPP. THE CONTRACTOR SHALL MODIFY AS REQUIRED THE APPROVED SWPPP/EROSION CONTROL PLANS FOR EACH PHASE OF THE PROJECT OR AS CONSTRUCTION ACTIVITIES PROGRESS THROUGH THE DURATION OF THE CONTRACT. THESE MODIFICATIONS SHALL BE REPORTED AND COORDINATED WITH BOTH THE QSD AND THE QSP. ANY MODIFICATIONS TO THE OVERALL DURATION OF CONSTRUCTION SCHEDULE FROM THAT AS SHOWN ON THE CURRENT SWPPP, SHALL ALSO BE REPORTED TO THE QSD. THE QSD SHALL THAN BE REQUIRED TO FILE AN EXTENSION OF CONSTRUCTION OR COI, (CHANGE OF INFORMATION), WITH THE STATE WATER RESOURCE CONTROL BOARD. ALL BMP'S SHALL BE MAINTAINED YEAR ROUND TO THE SATISFACTION OF THE QSD AND QSP.
25. CONTRACTOR SHALL INSTALL TEMPORARY FENCING AROUND THE PERIMETER OF THE CONSTRUCTION SITE AND STAGING AREA. FENCING SHALL BE MINIMUM 8 FEET TALL AND SHALL HAVE A DUST/VISION BARRIER ALONG THE FULL LENGTH. THE DUST/VISION BARRIER SHALL EXTEND THE LENGTH OF THE CONSTRUCTION SITE. THE FENCING SHALL BE ANCHORED TO THE SURFACE AND SHALL BE ABLE TO WITHSTAND A 200-POUND HORIZONTAL POINT LOAD IN ANY DIRECTION. TEMPORARY FENCING POLES AND GATES POST SHALL BE DRIVEN INTO THE GROUND. FENCE STANDS WILL NOT BE ALLOWED. WORK AREA AND STAGING AREA SHALL BE SECURE AT ALL TIMES.

GENERAL NOTES (cont):

26. UTILITIES TO BE VERIFIED IN FIELD TO INSURE THE EXISTING SERVING FACILITIES TO REMAIN. COORDINATE RELOCATION IF REQUIRED. REMOVE INTERFERING SECTIONS OF ALL ABANDONED EXISTING UTILITIES. UTILITY OWNERS OF THESE ABOVE-MENTIONED INTERFERING UTILITIES AND THE DISTRICT OR OAR SHALL BE NOTIFIED IN ADVANCE PRIOR TO START OF REMOVAL.
27. STORM DRAINAGE SYSTEMS SHOWN ON THESE PLANS HAVE BEEN DESIGNED FOR THE ROUGH GRADING SITE CONDITION AT COMPLETION OF THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ADEQUATE DRAINAGE OF THE SITE, DURING INTERIM CONDITIONS OF CONSTRUCTION.
28. THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY, AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS.
29. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE THE SCHOOL DISTRICT WITH A COMPLETE SET OF REPRODUCIBLE "AS-BUILT" DRAWINGS OF ALL WORK PERFORMED UNDER THIS CONTRACT, AS SHOWN WITHIN THESE CONSTRUCTION DRAWINGS. ALL FIELD CHANGES SHALL BE SHOWN IN DETAIL ON THE "AS-BUILT" DRAWINGS AND SHALL INCORPORATE AS A MINIMUM, NEW ELEVATIONS, GRADES AND ALIGNMENT OF UNDERGROUND FACILITIES WITH DIMENSIONAL TIES TO BUILDINGS OR OTHER VISIBLE IMPROVEMENTS.
30. THE CONTRACTOR SHALL OBTAIN AN O.S.H.A PERMIT FROM THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY PRIOR TO THE CONSTRUCTION OF TRENCHES OR EXCAVATIONS WHICH ARE FIVE FEET OR DEEPER.
31. CONTRACTOR SHALL SECURE AND PAY FOR TEMPORARY POWER AND WATER TO BE USED FOR HIS/HER MEANS AND METHOD OF CONSTRUCTION.
32. CONSTRUCT STRAIGHT GRADES BETWEEN ELEVATIONS SHOWN ON PLAN UNLESS INTERRUPTED BY A GRADE CHANGE LINE. ANY DEVIATION FROM THE GRADING PLAN MUST HAVE PRIOR APPROVAL FROM THE ENGINEER OF RECORD.
33. "PATH OF TRAVEL (P.O.T) AS INDICATED IS A BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAXIMUM SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL AND IS AT LEAST 48" WIDE. SURFACE IS SLIP RESISTANT, STABLE, FIRM, AND SMOOTH. CROSS-SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED. (POT) SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM (11B-307.4) AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTING FROM WALL AND ABOVE 27" AND LESS THAN 80" (11B-307.2). CONTRACTOR TO VERIFY THAT ALL BARRIERS IN THE PATH OF TRAVEL HAVE BEEN REMOVED OR WILL BE REMOVED UNDER THIS PROJECT, AND PATH OF TRAVEL COMPLIES WITH CBC 11B-403.
34. SIDEWALK, WALKWAYS, ACCESS TO BUILDING, ACCESS DOORS, PLAY AREAS AND PATH OF TRAVEL SHOWN IN ARCHITECTURAL AND LANDSCAPE DRAWING SHALL HAVE NO MORE THAN 2% MAXIMUM CROSS SLOPE. COORDINATE GRADING PLAN WITH ARCHITECTURAL DRAWINGS AND REPORT TO OWNER AUTHORIZED REPRESENTATIVE ANY DISCREPANCY PRIOR TO COMMENCEMENT OF GRADING.
35. UPON COMPLETION OF PROJECT, CONTRACTOR SHALL REMOVE EXISTING CONSTRUCTION FENCING, APPURTENANCES AND OFFICE TRAILERS FROM THE SITE. PAVEMENT SHALL BE PATCHED AND REPAIRED TO MATCH ADJACENT PAVEMENT AND APPROVED BY THE INSPECTOR OF RECORD OR CITY INSPECTOR AS APPLICABLE.
36. GRADE LAWN, TURF, AND PLANTING AREA 1-1/2" MAX AT ACCESSIBLE PATH OF TRAVEL AND 2" MAX AT OTHER AREAS BELOW DESIGN GRADES INDICATED.
37. ADJUST TO GRADE EXISTING MANHOLE RIMS, AND ELECTRICAL VAULT LIDS TO DESIGN GRADES WITHIN THE IMPROVEMENT AREA. CONTRACTOR TO VERIFY LOCATION AND NUMBER OF MANHOLE RIMS, VALVE BOXES AND ELECTRICAL VAULT LIDS IN THE FIELD PRIOR TO BIDDING.
38. IF GRADING AUTHORIZED BY THIS PLAN IS TO EXTEND THROUGH THE RAINY SEASON, OCTOBER 1 THROUGH APRIL 15 OF THE FOLLOWING YEAR, SEPARATE UPDATED PLANS FOR EROSION CONTROL MUST BE SUBMITTED TO JURISDICTIONAL AGENCIES FOR APPROVAL PRIOR TO OCTOBER TO DSA FOR APPROVAL. CONTRACTOR TO PROVIDE STORM WATER PREVENTION PLAN, PRE-CONSTRUCTION AND POST CONSTRUCTION BMPS AND UPDATE FROM TIME TO TIME TO COMPLY WITH THE REQUIREMENTS.
39. CONTRACTOR IS RESPONSIBLE TO ADJUST EXISTING DRY AND / OR PRESSURIZED UTILITY PIPES ABOVE, BELOW AND / OR COORDINATE RELOCATION DUE TO THE INSTALLATION OF NEW GRAVITY LINES (SEWER AND STORM UTILITY PIPES).
40. CONTRACTOR IS REQUIRED TO RESTORE ALL EXISTING IMPROVEMENTS TO THE SAME CONDITION, THAT ARE NOT PART OF THIS PROJECT, THAT EXISTED PRIOR TO STARTING CONSTRUCTION. CONTRACTOR IS TO TAKE PHOTOS/VIDEO OF EXISTING SITE CONDITIONS AND PROVIDE TO OWNER PRIOR TO THE START OF CONSTRUCTION.

HORIZONTAL CONTROL

A CAD GEOMETRIC ELECTRONIC FILE SHALL BE MADE AVAILABLE TO THE CONTRACTOR UPON REQUEST FOR THE CONTRACTOR'S SURVEYOR TO LAYOUT THE CONSTRUCTION STAKING OF THE PROJECT. THE SURVEYOR OR CONTRACTOR WILL NEED TO SIGN A WAIVER FORM BEFORE RELEASE OF ANY CAD ELECTRONIC DRAWINGS.

LEGENDS:

CONSTRUCT 6" THICK AC SURFACING OVER 6" THICK CRUSHED AGGREGATE BASE (CAB), PER DETAIL 1 ON SHEET C-5.0.

CONSTRUCT 6" THICK CONCRETE PAVEMENT OVER 6" BASE PER DETAIL 2 ON SHEET C-5.0.

REPLACE TURF MATCH EXISTING IN KIND.

REMOVE EXISTING AC PAVEMENT AND BASE MATERIAL, FULL DEPTH.

REMOVE EXISTING CONCRETE PAVEMENT AND BASE MATERIAL, FULL DEPTH.

CLEAR, GRUB AND REMOVE EXISTING TURF/EXPOSED SUBGRADE AREA. REMOVE EXISTING SHRUBS AND ROOTS.

LIMIT OF REMOVAL

MATCHLINE

CENTER LINE

PROPERTY LINE

EXISTING CONTOUR MINOR

EXISTING CONTOUR MAJOR (1355.00)

CHAIN LINK FENCE

TUBE STEEL FENCING

METAL FENCING

CMU WALL

COMMUNICATION LINE (C)

UNDERGROUND ELECTRICAL LINE (E)

GAS LINE (G)

OVERHEAD UTILITY (OH)

STORM DRAIN LINE (SD)

STREET LIGHT ELECTRICAL LINE (SL)

SANITARY SEWER LINE (SS)

WATER LINE (W)

ATHLETIC FIELD LIGHTING

BACKFLOW PREVENTER (3" BACKFLOW)

BASKETBALL HOOP

BENCH (BENCH)

LEGENDS (CONT.):

BOLLARD (BLRD)

COMMUNICATION CABINET (C)

COMMUNICATION VAULT (C) (C)

CONCRETE SEATWALL (SEATWALL)

DECIDUOUS TREE

DOUBLE CHECK DETECTOR ASSEMBLY (F. DCA)

DRINKING FOUNTAIN (DF)

ELECTRICAL TRANSFORMER (TRNS)

ELECTRICAL VAULT (E) (E)

EVERGREEN TREE

FIRE DEPARTMENT CONNECTION (FDC)

FIRE HYDRANT (FH)

GAS PRESSURE REGULATOR ASSEMBLY (3/4" G REG)

GAS VALVE (GV)

IRRIGATION CONTROLLER (IC)

IRRIGATION VALVE (IV) (IV)

PALM TREE

POST INDICATOR VALVE (PIV)

SANITARY SEWER MANHOLE OR CLEANOUT (SS) (SS)

SITE LIGHTING (LT) (DL) (DL)

STORM DRAIN INLET

STORM DRAIN MANHOLE OR CLEANOUT (SD) (SD)

UNKNOWN UTILITY VAULT (UT) (UT)

WATER METER (WM)

WATER VAULT (WV)

ABBREVIATIONS:

AC	ASPHALT
AOR	AUTHORIZED OWNER REPRESENTATIVE
APWA	AMERICAN PUBLIC WORKS ASSOCIATION
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AVE	AVENUE
BFD	BACKFLOW DEVICE
BLDG	BUILDING
BLVD	BOULEVARD
BMP	BEST MANAGEMENT PRACTICES
CAB	CRUSHED AGGREGATE BASE
CL	CENTERLINE
CLF	CHAIN LINK FENCE
CONC/CC	CONCRETE
DF	DRINKING FOUNTAIN
DI	DROP INLET
E	EAST
(E)/EX	EXISTING
ELEC	ELECTRICAL
EP	EDGE OF PAVEMENT
FF	FINISHED FLOOR
FG	FINISHED GRADE
FL	FLOW LINE
FS	FINISHED SURFACE
FT	FEET
GB	GRADE BREAK
ICV	IRRIGATION CONTROL VALVE
INV	INVERT
IOR	INSPECTION OF RECORD
MAX	MAXIMUM
MIN	MINIMUM
N	NORTH
(N)	NEW
NTS	NOT TO SCALE
OC	ON CENTER
OAR	OWNER AUTHORIZED REPRESENTATIVE
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
PA	PLANTER AREA
PL	PROPERTY LINE
PLNTR	PLANTER
PP	PERFORATED PIPE
S	SOUTH
SPPWC	STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION
TC	TOP OF CURB
TE	TOP OF ELEVATION
TG	TOP OF GRATE
TOP	TOP OF ELEVATION
TR	ELECTRICAL TRANSFORMER
VIF	VERIFY IN FIELD
W	WEST

SHEET INDEX:

C-1.0	GENERAL NOTES, LEGENDS, AND ABBREVIATIONS
C-1.1	OVERALL SITE PLAN
CD-1.0	ENLARGED SITE DEMOLITION PLAN
CD-1.1	ENLARGED SITE DEMOLITION PLAN
C-2.0	ENLARGED SITE CONTROL PLAN
C-2.1	ENLARGED SITE CONTROL PLAN
C-3.0	ENLARGED SITE GRADING PLAN
C-3.1	ENLARGED SITE GRADING PLAN
C-4.0	ENLARGED SITE UTILITY PLAN
C-4.1	ENLARGED SITE UTILITY PLAN
C-5.0	MISCELLANEOUS DETAILS

SURVEY NOTES:

SURVEYOR AND BENCH MARK FOR THIS PRODUCT:

SURVEYOR:

DAVID BECKWITH AND ASSOCIATES, INC
9431 HAVEN AVENUE, SUITE 232
RANCHO CUCAMONGA, CA 91730

BENCH MARK:

BENCHMARK: 1G4157

FOUND 3" BRASS DISK COUNTY SURVEY BENCHMARK IN THE WEST END OF A STORM DRAIN CATCH BASIN LOCATED 45-FT EAST OF THE BCR AT THE NORTHEAST CORNER OF LOWER AZUSA ROAD AND SANTA ANITA AVENUE MARKED "BM 19-8A 1971".

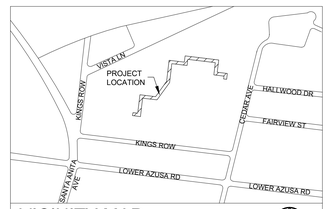
ELEVATION: 318.932 (NAVD88)

BASIS OF BEARINGS:

THE COORDINATES SHOWN HEREON ARE BASED UPON THE CALIFORNIA COORDINATE SYSTEM OF 1983, CCS83, ZONE 5, (2010.00 EPOCH) IN ACCORDANCE WITH THE CALIFORNIA PUBLIC RESOURCES CODE SECTIONS 8801-8819; SAID COORDINATES ARE BASED LOCALLY UPON FIELD-OBSERVED TIES TO THE FOLLOWING NATIONAL GEODETIC SURVEY NETWORK, CONTINUALLY OPERATING REFERENCE STATIONS (CORS), OR EQUIVALENT STATIONS.

STATION	NORTHING	EASTING
JPLM	1896965.473	6509289.183
TORP	1748960.131	6461222.485

ALL DISTANCES SHOWN HEREON ARE GROUND DISTANCES AND ARE IN US SURVEY FOOT. GRID DISTANCES CAN BE OBTAINED BY MULTIPLYING GROUND DISTANCES BY A COMBINED FACTOR OF 0.9999774243 FROM POINT #100.



VICINITY MAP
SCALE: NOT TO SCALE

AGENCY APPROVAL:

HMC DESIGN FOR GOOD Architects
3361008103
633 W. 5TH STREET, THIRD FLOOR,
LOS ANGELES, CA, 90071
213 542 8300 / www.hmcarchitects.com

ISSUE

Δ	DESCRIPTION	DATE
	DSA SUBMITTAL	03/04/26
	DSA BACKCHECK	10/19/26

KEYNOTES

NOTES

REGISTERED PROFESSIONAL ENGINEER — CHRISTID C. ANDERSEN — No. C36079 — Exp. 6/30/28 — CIVIL — STATE OF CALIFORNIA

VCA ENGINEERS INC
CIVIL & STRUCTURAL
831 S. Atlantic Blvd.
Monterey Park, CA 91754
Tel. 323.729.8088 Fax. 323.729.8043

FACILITY:

4921 CEDAR AVENUE
EL MONTE, CALIFORNIA 91732

PROJECT:

EMUSD ARROYO HIGH SCHOOL - CAMPUS WIDE ELECTRICAL UPGRADE

SHEET NAME: GENERAL NOTES, LEGENDS, AND ABBREVIATIONS

DSA BACK CHECK

FILE NO.: **19-H10** | A NO: **03-123641**

DATE: **2026.07.08** | CLIENT PROJ NO: **3361-008-103**

SHEET:

C-1.0

BID SET

PLEASE RECYCLE

THE LINE BROWN ABOVE IS EXACTLY 1" WHEN PRINTED AT EMS SHEET'S ORIGINAL PAGE SIZE

(E) BUILDING T A#13912
(E) PA
(E) CC
(E) AC
(E) HOME BLEACHERS A#108641
(E) SERVICE YARD ENCLOSURE A#03-12231
(E) BUILDING V A#28579
(E) BUILDING G3 A#03-112915
(E) BUILDING G1 A#03-112915
(E) BUILDING G A#03-112915
(E) BUILDING G2 A#03-112915
(E) PARKING G A#03-108334
(E) BUILDING S A#03-108334
(E) BUILDING E A#03-108334
(E) BUILDING F A#03-112915
(E) BUILDING K A#03-123169
STORAGE
(E) BUILDING L A#03-107693
(E) BUILDING Y A#108334
(E) BUILDING N A#03-107693
(E) BUILDING O A#03-107693
(E) BUILDING D A#03-107693
(E) BUILDING C A#03-107693
(E) BUILDING B A#03-107693
(E) BUILDING P A#03-107693
(E) BUILDING A A#03-107693
(E) BUILDING W
(E) BUILDING R A#03-123169
(E) BUILDING J A#03-107693
(E) BUILDING H A#03-107693
(E) BUILDING M A#13542
(E) RELOC PORTABLES A#03-112317
(E) BUILDING I A#30377
(E) PARKING M A#03-118952

CD-1.0
C-2.0
C-3.0
C-4.0
CD-1.1
C-2.1
C-3.1
C-4.1

℄ HALLWOOD DRIVE
S 83°18'54" E

℄ CEDAR AVENUE
S 14°12'01" W

℄ FAIRVIEW STREET
N 83°19'42" W

OVERALL SITE PLAN

40 20 0 40 80

SCALE: 1" = 40'

PLEASE RECYCLE

AGENCY APPROVAL:

HMC DESIGN FOR GOOD Architects
3361008103
633 W. 5TH STREET, THIRD FLOOR,
LOS ANGELES, CA, 90071
213 542 8300 / www.hmcarchitects.com

ISSUE

Δ	DESCRIPTION	DATE
	DSA SUBMITTAL	03/04/26
	DSA BACKCHECK	10/19/26

KEYNOTES

NOTES

REGISTERED PROFESSIONAL ENGINEER — ROBERT C. ADDISON — No. 36079 — Exp. 6/30/28 — CIVIL — STATE OF CALIFORNIA

VCA ENGINEERS INC
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Tel. 323.729.6098 Fax. 323.729.8043

FACILITY:

4921 CEDAR AVENUE
EL MONTE, CALIFORNIA 91732

PROJECT:

EMUSD ARROYO HIGH SCHOOL - CAMPUS WIDE ELECTRICAL UPGRADE

SHEET NAME:

OVERALL SITE PLAN

BID SET

DSA BACK CHECK

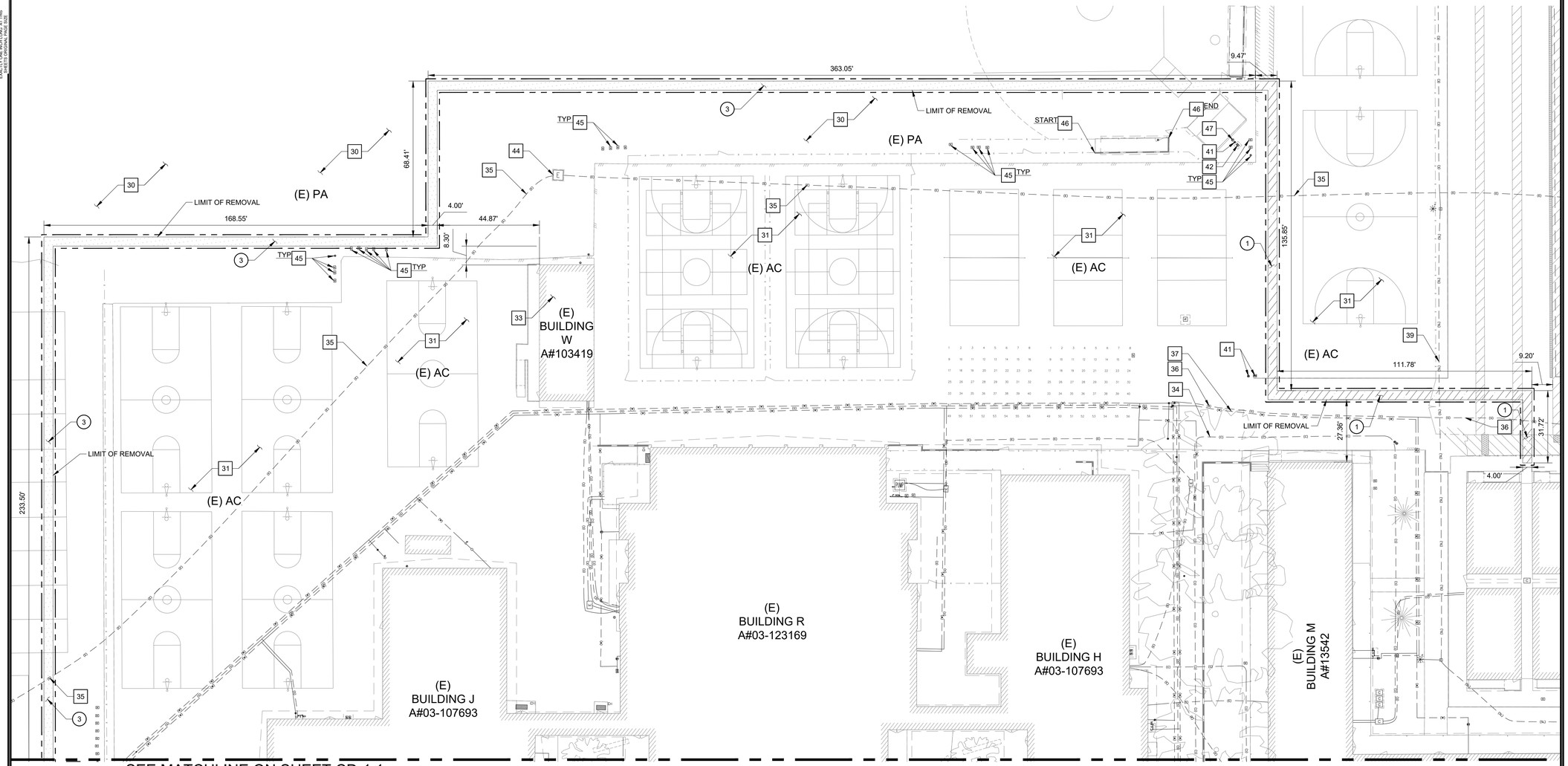
FILE NO.: **19-H10** A NO: **03-123641**

DATE: **2026.07.08** CLIENT PROJ NO: **3361-008-103**

SHEET:

C-1.1

THE LINE BROWN ABOVE IS EXACTLY 1" WHEN PRINTED AT FULL SHEETS ORIGINAL PAGE SIZE



SEE MATCHLINE ON SHEET CD-1.1

REMOVAL NOTES:

1. REMOVE EXISTING 6" THICK ASPHALT PAVEMENT OVER 6" THICK BASE COURSE, FULL DEPTH. ESTIMATED LINEAR LENGTH AROUND 488.81' WITH A TRENCHING WIDTH OF 4'.
3. CLEAR, GRUB AND REMOVE EXISTING TURF/EXPOSED SUBGRADE AREA. REMOVE EXISTING SHRUBS AND ROOTS. ESTIMATED LINEAR LENGTH AROUND 1213.42' WITH A TRENCHING WIDTH OF 4'.

PROTECT-IN-PLACE NOTES:

30 PROTECT IN PLACE EXISTING TREES, SHRUBS, SOD, ETC. COORDINATE WITH LANDSCAPE DRAWINGS.
31 PROTECT IN PLACE EXISTING ASPHALT PAVEMENT.
33 PROTECT IN PLACE EXISTING BUILDING.
34 PROTECT IN PLACE EXISTING COMMUNICATION LINE.
35 PROTECT IN PLACE EXISTING UNDERGROUND ELECTRICAL LINE.
36 PROTECT IN PLACE EXISTING GAS LINE.
37 PROTECT IN PLACE EXISTING WATER LINE.
41 PROTECT IN PLACE EXISTING WATER METER/ WATER VALVE.
42 PROTECT IN PLACE EXISTING DRINKING FOUNTAIN.
44 PROTECT IN PLACE EXISTING ELECTRICAL VAULT.
45 PROTECT IN PLACE EXISTING IRRIGATION VALVE.
46 PROTECT IN PLACE EXISTING STRUCTURE.
47 PROTECT IN PLACE EXISTING UNKNOWN UTILITY VAULT.

REMOVAL LEGENDS:

REMOVE EXISTING ASPHALT PAVEMENT AND BAS MATERIAL, FULL DEPTH.

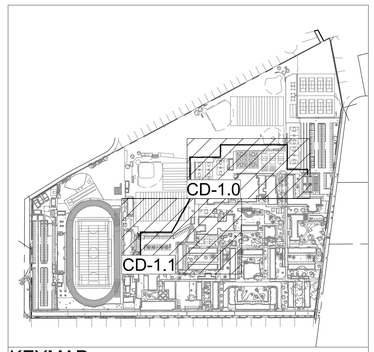
CLEAR, GRUB AND REMOVE EXISTING TURF/EXPOSED SUBGRADE AREA. REMOVE EXISTING SHRUBS AND ROOTS.

LIMIT OF REMOVAL

MATCHLINE

SHEET NOTES:

1. FOR GENERAL NOTES, LEGENDS, AND ABBREVIATIONS, SEE SHEET C-1.0.
2. SEE ARCHITECTURAL DRAWINGS FOR OTHER SITE RELATED DIMENSIONS NOT SHOWN ON THIS DRAWING.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY AND SURFACE AND/OR UNDERGROUND UTILITIES IN CONFLICT WITH THE PROPOSED DEMOLITION AND DESIGN ITEMS. CONTRACTOR SHALL REPORT ANY DISCREPANCIES AND/OR CONSTRUCTION RELATED ISSUES TO THE OWNER OR DESIGN TEAM PRIOR TO THE COMMENCEMENT OF WORK.
4. CONTRACTOR TO VERIFY IN FIELD THE JOINING TO EXISTING ELEVATION AND THE CURRENT SITE CONDITION WITH THE DESIGN GRADES. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE OWNER OR DESIGN TEAM PRIOR TO THE COMMENCEMENT OF WORK.



KEYMAP
NTS

ENLARGED SITE DEMOLITION PLAN

20 10 0 20 40

SCALE: 1" = 20'

AGENCY APPROVAL:

HMC DESIGN FOR GOOD Architects
3361008103
633 W. 5TH STREET, THIRD FLOOR,
LOS ANGELES, CA, 90071
213 542 8300 / www.hmcarchitects.com

ISSUE

Δ	DESCRIPTION	DATE
	DSA SUBMITTAL	03/04/26
	DSA BACKCHECK	10/19/26

KEYNOTES

NOTES

REGISTERED PROFESSIONAL ENGINEER
ROBERTO C. ARANA
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FACILITY:

4921 CEDAR AVENUE
EL MONTE, CALIFORNIA 91732

PROJECT:

EMUSD ARROYO HIGH SCHOOL - CAMPUS WIDE ELECTRICAL UPGRADE

SHEET NAME:

ENLARGED SITE DEMOLITION PLAN

DSA BACK CHECK

FILE NO.: **19-H10** | A NO: **03-123641**

DATE: **2026.07.08** | CLIENT PROJ NO: **3361-008-103**

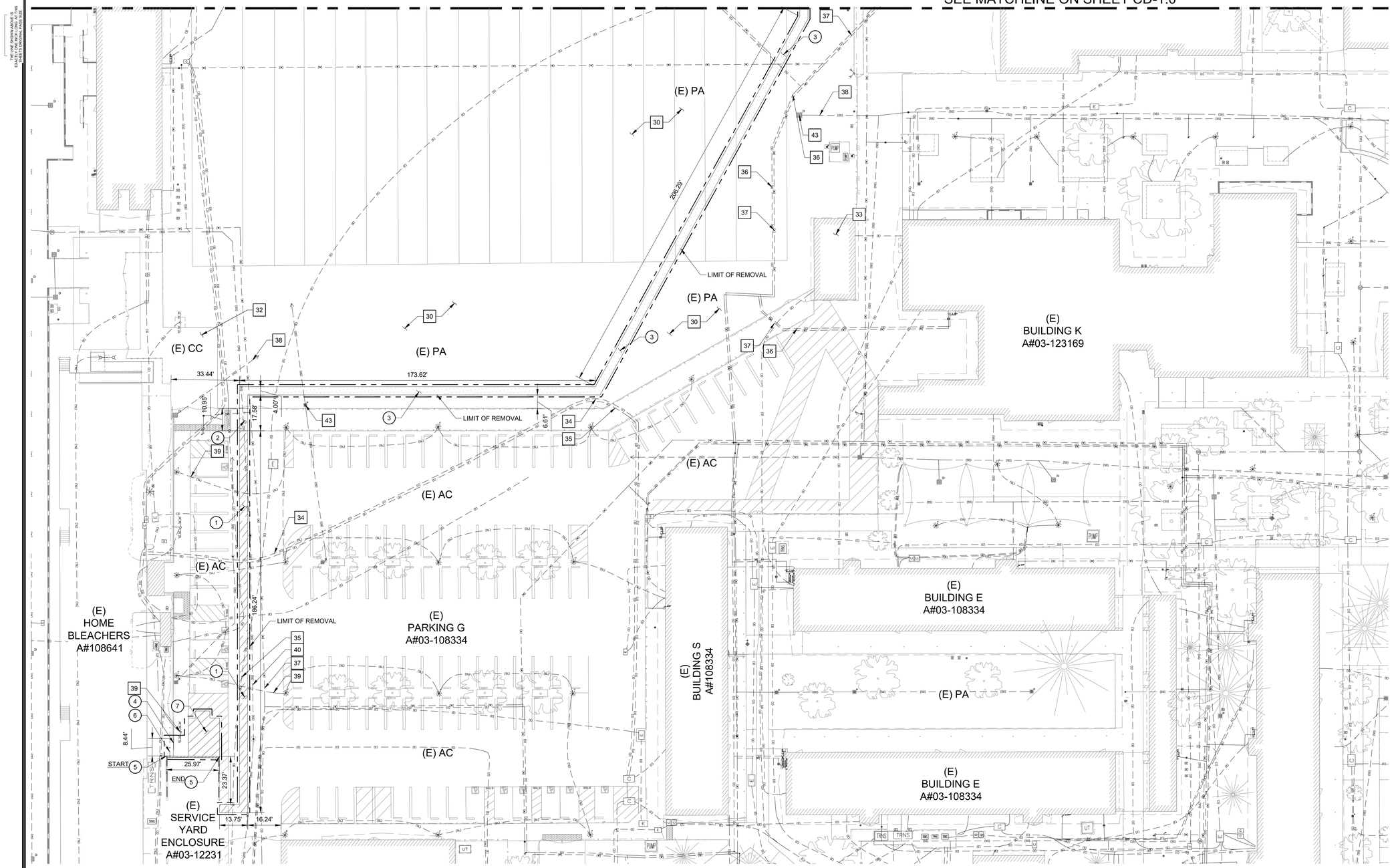
SHEET:

CD-1.0

BID SET

PLEASE RECYCLE

SEE MATCHLINE ON SHEET CD-1.0



REMOVAL NOTES:

1. REMOVE EXISTING 6" THICK ASPHALT PAVEMENT OVER 6" THICK BASE COURSE, FULL DEPTH. ESTIMATED LINEAR LENGTH AROUND 488.81' WITH A TRENCHING WIDTH OF 4'.
2. REMOVE EXISTING 6" THICK CONCRETE PAVEMENT AND 6" THICK BASE MATERIAL, FULL DEPTH. ESTIMATED LINEAR LENGTH AROUND 10.95' WITH A TRENCHING WIDTH OF 4'.
3. CLEAR, GRUB AND REMOVE EXISTING TURF/EXPOSED SUBGRADE AREA. REMOVE EXISTING SHRUBS AND ROOTS. ESTIMATED LINEAR LENGTH AROUND 1213.42' WITH A TRENCHING WIDTH OF 4'.
4. REMOVE EXISTING 12" THICK CURB BASED ON. ESTIMATED LINEAR LENGTH AROUND 8.44' WITH A WIDTH OF 6".
5. REMOVE EXISTING WALL AND FOOTINGS IN ITS ENTIRETY. ESTIMATED LINEAR LENGTH AROUND 25.97" WITH A HEIGHT OF 8'-8".
6. REMOVE EXISTING CHAINLINK FENCE, FOOTINGS AND SILT FABRIC IN ITS ENTIRETY. ESTIMATED LINEAR LENGTH IS AROUND 8.44' WITH A HEIGHT OF 8'.
7. REMOVE EXISTING PARKING STRIPING.

PROTECT-IN-PLACE NOTES:

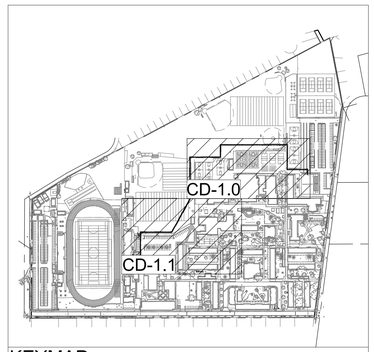
32. PROTECT IN PLACE EXISTING CONCRETE PAVEMENT.
33. PROTECT IN PLACE EXISTING BUILDING.
34. PROTECT IN PLACE EXISTING COMMUNICATION LINE.
35. PROTECT IN PLACE EXISTING UNDERGROUND ELECTRICAL LINE.
36. PROTECT IN PLACE EXISTING GAS LINE.
37. PROTECT IN PLACE EXISTING WATER LINE.
38. PROTECT IN PLACE EXISTING STORM DRAIN LINE.
39. PROTECT IN PLACE EXISTING STREET LIGHT ELECTRICAL LINE.
40. PROTECT IN PLACE EXISTING SANITARY SEWER LINE.
43. PROTECT IN PLACE EXISTING DRAIN INLET.

REMOVAL LEGENDS:

- REMOVE EXISTING ASPHALT PAVEMENT AND BAS MATERIAL, FULL DEPTH.
- REMOVE EXISTING CONCRETE PAVEMENT AND BASE MATERIAL, FULL DEPTH.
- CLEAR, GRUB AND REMOVE EXISTING TURF/EXPOSED SUBGRADE AREA. REMOVE EXISTING SHRUBS AND ROOTS.
- LIMIT OF REMOVAL
- MATCHLINE

SHEET NOTES:

1. FOR GENERAL NOTES, LEGENDS, AND ABBREVIATIONS, SEE SHEET C-1.0.
2. SEE ARCHITECTURAL DRAWINGS FOR OTHER SITE RELATED DIMENSIONS NOT SHOWN ON THIS DRAWING.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY AND SURFACE AND/OR UNDERGROUND UTILITIES IN CONFLICT WITH THE PROPOSED DEMOLITION AND DESIGN ITEMS. CONTRACTOR SHALL REPORT ANY DISCREPANCIES AND/OR CONSTRUCTION RELATED ISSUES TO THE OWNER OR DESIGN TEAM PRIOR TO THE COMMENCEMENT OF WORK.
4. CONTRACTOR TO VERIFY IN FIELD THE JOINING TO EXISTING ELEVATION AND THE CURRENT SITE CONDITION WITH THE DESIGN GRADES. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE OWNER OR DESIGN TEAM PRIOR TO THE COMMENCEMENT OF WORK.



KEYMAP
NTS

ENLARGED SITE DEMOLITION PLAN

20 10 0 20 40

SCALE: 1" = 20'

PLEASE RECYCLE

AGENCY APPROVAL:

HMC DESIGN FOR GOOD Architects
3361008103
633 W. 5TH STREET, THIRD FLOOR,
LOS ANGELES, CA, 90071
213 542 8300 / www.hmcarchitects.com

ISSUE

Δ	DESCRIPTION	DATE
	DSA SUBMITTAL	03/04/26
	DSA BACKCHECK	10/19/26

KEYNOTES

NOTES

MCA ENGINEERS INC
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FACILITY:

4921 CEDAR AVENUE
EL MONTE, CALIFORNIA 91732

PROJECT:

EMUSD ARROYO HIGH SCHOOL - CAMPUS WIDE ELECTRICAL UPGRADE

SHEET NAME:

ENLARGED SITE DEMOLITION PLAN

DSA BACK CHECK

FILE NO.: **19-H10** A NO: **03-123641**

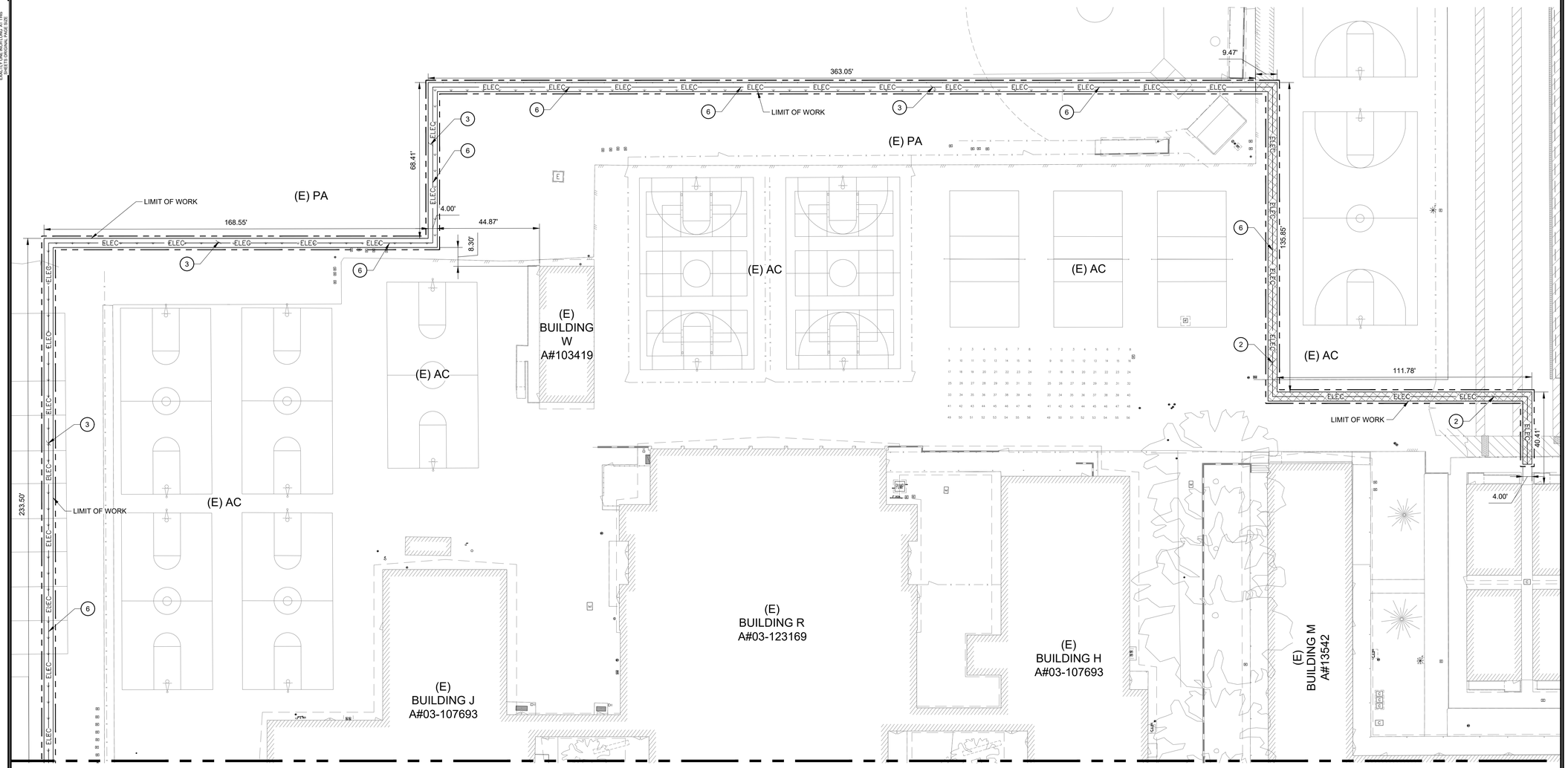
DATE: **2026.07.08** CLIENT PROJ NO: **3361-008-103**

SHEET:

CD-1.1

BID SET

THE LINE BROWN ABOVE IS EXACTLY 1" WHEN PRINTED AT 24 X 36 SHEETS ORIGINAL PAGE SIZE



SEE MATCHLINE ON SHEET C-2.1

CONSTRUCTION NOTES:

2. CONSTRUCT 4" THICK AC SURFACING OVER 6" THICK CRUSHED AGGREGATE BASE (CAB), PER DETAIL 1 ON SHEET C-5.0.
3. REPLACE TURF MATCH EXISTING IN KIND.
6. INSTALL ELECTRICAL UTILITY LINE / CONDUIT PER ELECTRICAL DRAWINGS. FOR TRENCH SECTION REFER TO DETAIL 5 ON SHEET C-5.0.

LEGENDS:

CONSTRUCT 6" THICK ASPHALT PAVEMENT OVER 6" THICK CRUSHED AGGREGATE BASE (CAB), PER DETAIL 1 ON SHEET C-5.0.

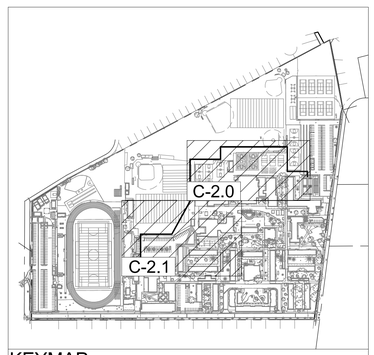
REPLACE TURF MATCH EXISTING IN KIND.

LIMIT OF WORK

MATCHLINE

SHEET NOTES:

1. FOR GENERAL NOTES, LEGENDS, AND ABBREVIATIONS, SEE SHEETS C-1.0.
2. REFER TO ARCHITECTURAL DRAWINGS FOR OTHER SITE DIMENSIONS AND IMPROVEMENTS NOT SHOWN ON THIS DRAWING.



KEYMAP
NTS

ENLARGED SITE CONTROL PLAN

20 10 0 20 40

SCALE: 1" = 20'

PLEASE RECYCLE

AGENCY APPROVAL:

HMC Architects
DESIGN FOR GOOD
3361008103
633 W. 5TH STREET, THIRD FLOOR,
LOS ANGELES, CA, 90071
213 542 8300 / www.hmcarchitects.com

ISSUE

Δ	DESCRIPTION	DATE
	DSA SUBMITTAL	03/04/26
	DSA BACKCHECK	10/19/26

KEYNOTES

NOTES

REGISTERED PROFESSIONAL ENGINEER — CHRISTOPHER C. ADDISON — No. C36079 — Exp. 6/30/28 — CIVIL — STATE OF CALIFORNIA

VCA ENGINEERS INC
631 S. Atlantic Blvd
Monterey Park, CA 91754
Tel. 323.728.6088 Fax. 323.729.6043

FACILITY:

4921 CEDAR AVENUE
EL MONTE, CALIFORNIA 91732

PROJECT:

EMUSD ARROYO HIGH SCHOOL - CAMPUS WIDE ELECTRICAL UPGRADE

SHEET NAME:

ENLARGED SITE CONTROL PLAN

DSA BACK CHECK

FILE NO.: **19-H10** | A NO: **03-123641**

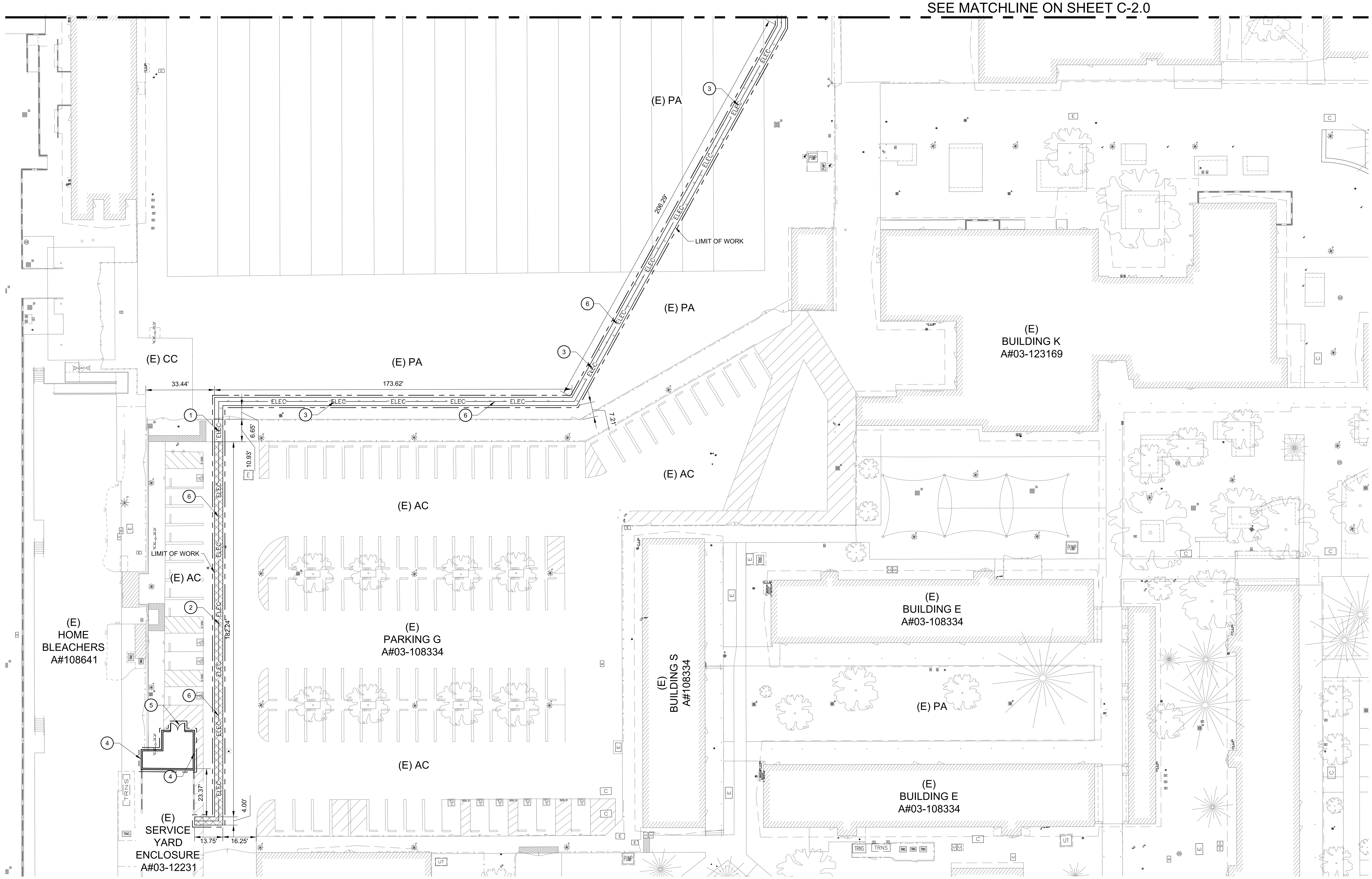
DATE: **2026.07.08** | CLIENT PROJ NO: **3361-008-103**

SHEET:

C-2.0

BID SET

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEETS ORIGINAL PAGE SIZE



CONSTRUCTION NOTES:

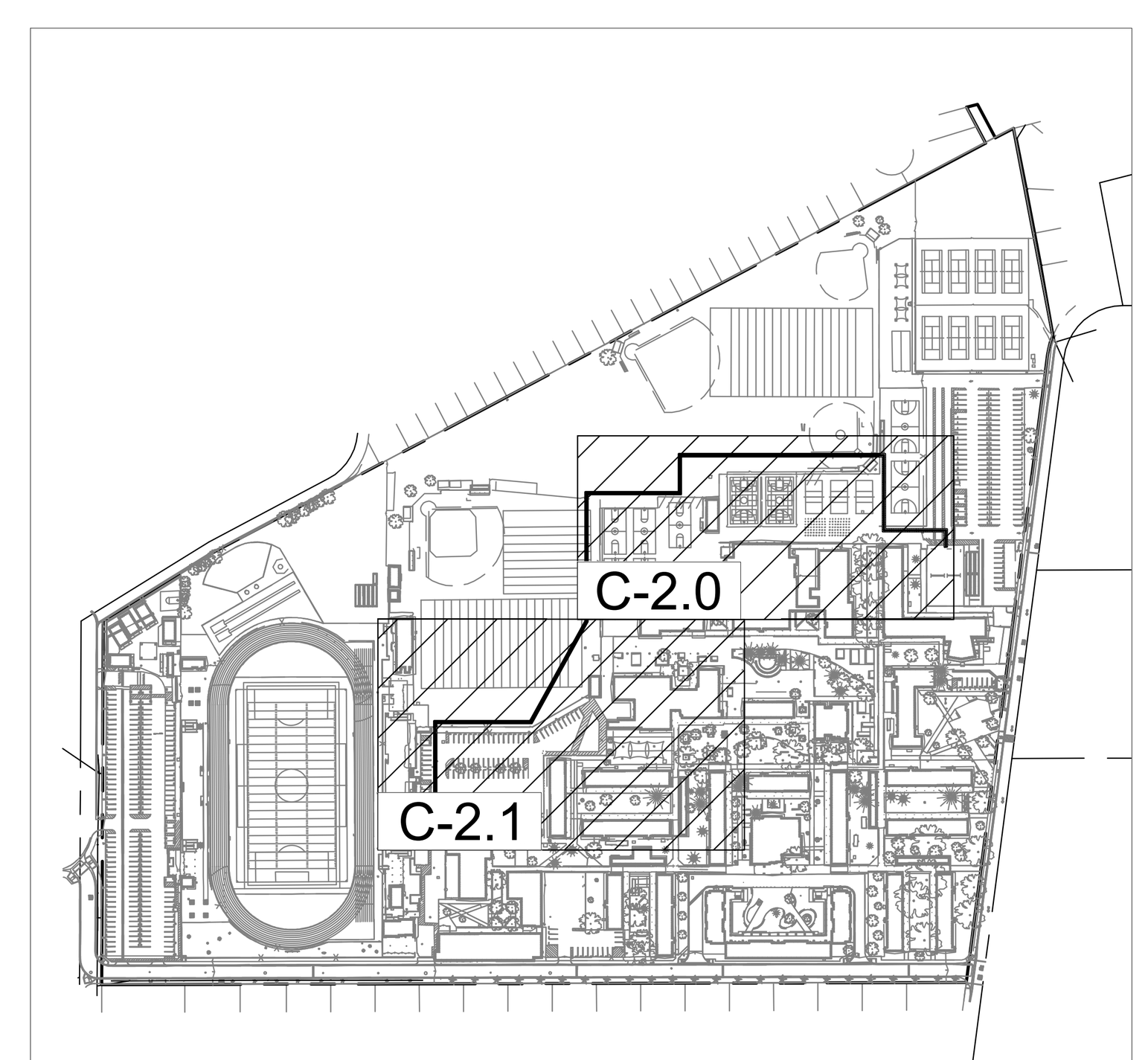
1. CONSTRUCT 6" THICK CONCRETE PAVEMENT OVER 6" BASE PER DETAIL 2 ON SHEET C-5.0.
2. CONSTRUCT 4" THICK AC SURFACING OVER 6" THICK CRUSHED AGGREGATE BASE (CAB), PER DETAIL 1 ON SHEET C-5.0.
3. REPLACE TURF MATCH EXISTING IN KIND.
4. CONSTRUCT NEW WALL PER ARCHITECTURAL DRAWINGS.
5. INSTALL FENCE/GATE PER ARCHITECTURAL DRAWINGS.
6. INSTALL ELECTRICAL UTILITY LINE / CONDUIT PER ELECTRICAL DRAWINGS. FOR TRENCH SECTION REFER TO DETAIL 5 ON SHEET C-5.0.

LEGENDS:

- CONSTRUCT 6" THICK ASPHALT PAVEMENT OVER 6" THICK CRUSHED AGGREGATE BASE (CAB), PER DETAIL 1 ON SHEET C-5.0.
- CONSTRUCT 6" THICK CONCRETE PAVEMENT OVER 6" BASE PER DETAIL 2 ON SHEET C-5.0.
- REPLACE TURF MATCH EXISTING IN KIND.
- LIMIT OF WORK
- MATCHLINE

SHEET NOTES:

1. FOR GENERAL NOTES, LEGENDS, AND ABBREVIATIONS, SEE SHEETS C-1.0.
2. REFER TO ARCHITECTURAL DRAWINGS FOR OTHER SITE DIMENSIONS AND IMPROVEMENTS NOT SHOWN ON THIS DRAWING.



KEYMAP
NTS

ENLARGED SITE CONTROL PLAN

20 10 0 20 40

SCALE: 1" = 20'

AGENCY APPROVAL:

HMC Architects DESIGN FOR GOOD
3361008103
633 W. 5TH STREET, THIRD FLOOR, LOS ANGELES, CA, 90071
213 542 8300 / www.hmcarchitects.com

ISSUE

Δ	DESCRIPTION	DATE
	DSA SUBMITTAL	03/04/26
	DSA BACKCHECK	10/19/26

KEYNOTES

NOTES

REGISTERED PROFESSIONAL ENGINEER VIRGILIO C. AOANAN No. C36079 Exp. 6/30/28 CIVIL STATE OF CALIFORNIA

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FACILITY:

4921 CEDAR AVENUE
EL MONTE, CALIFORNIA 91732

PROJECT:

EMUSD ARROYO HIGH SCHOOL - CAMPUS WIDE ELECTRICAL UPGRADE

SHEET NAME: ENLARGED SITE CONTROL PLAN

DSA BACK CHECK

FILE NO.: **19-H10** A NO: **03-123641**

DATE: **2026.07.08** CLIENT PROJ NO: **3361-008-103**

SHEET: C-2.1

BID SET

PLEASE RECYCLE

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ALL SHEETS ORIGINAL PAGE SIZE

(E) PA

(318.00 FS)
(318.16 FS)
(318.24 FS)
(318.35 FS)
(319.44 FS)
(319.50 FS)

(E) AC

(E) BUILDING W A#103419

(E) PA

(320.82 FS)
(320.84 FS)

(E) AC

(E) AC

(321.55 FS)
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(E) AC

(E) BUILDING J A#03-107693

(E) BUILDING R A#03-123169

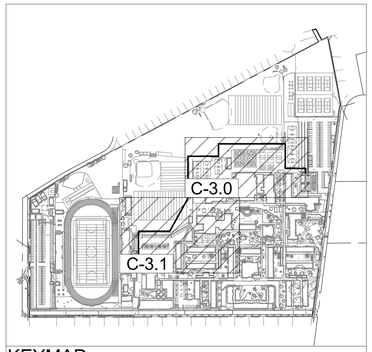
(E) BUILDING H A#03-107693

(E) BUILDING M A#13542

SEE MATCHLINE ON SHEET C-3.1

SHEET NOTES:

1. ALL GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE JURISDICTIONAL AGENCIES.
2. NO GRADING WORK SHALL BE PERFORMED AT ANY TIME WITHOUT AN EROSION SYSTEM APPROVED BY THE ENGINEER AND THE JURISDICTIONAL DISTRICT.
3. CONTRACTOR SHALL RECOMPACT THE TOP 12" OF THE PAVING SUB GRADE TO 95% MAXIMUM RELATIVE DENSITY.
4. THE CONTRACTOR SHALL NOT BEGIN THE PAVING OPERATION UNTIL THE SUB GRADE HAS BEEN APPROVED BY THE DISTRICT RETAINED GEOTECHNICAL ENGINEER AND IOR.



KEYMAP
NTS

ENLARGED SITE GRADING PLAN

20 10 0 20 40

SCALE: 1" = 20'

PLEASE RECYCLE

AGENCY APPROVAL:

HMC DESIGN FOR GOOD Architects
3361008103
633 W. 5TH STREET, THIRD FLOOR,
LOS ANGELES, CA, 90071
213 542 8300 / www.hmcarchitects.com

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REGISTERED PROFESSIONAL ENGINEER — CHRISTOPHER C. ADDISON — No. C36079 — Exp. 6/30/28 — CIVIL — STATE OF CALIFORNIA

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831 S. Atlantic Blvd
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Tel. 323.728.6098 Fax. 323.729.6043

FACILITY:

4921 CEDAR AVENUE
EL MONTE, CALIFORNIA 91732

PROJECT:

EMUSD ARROYO HIGH SCHOOL - CAMPUS WIDE ELECTRICAL UPGRADE

SHEET NAME:

ENLARGED SITE GRADING PLAN

DSA BACK CHECK

FILE NO.: **19-H10** | A NO: **03-123641**

DATE: **2026.07.08** | CLIENT PROJ NO: **3361-008-103**

SHEET:

C-3.0

BID SET

THE LINE BROKEN ABOVE IS EXACTLY 1" LONG ON ALL PLANS SHEETS ORIGINAL PAGE SIZE

SEE MATCHLINE ON SHEET C-3.0

(E) PA

(E) PA

(E) CC

(E) PA

(316.58 FS)
(316.53 FS)

(318.21 FS)
(318.12 FS)

(E) AC

(E) AC

(E) AC

(E) AC

(E)
BUILDING K
A#03-123169

(E)
HOME
BLEACHERS
A#108641

(E)
PARKING G
A#03-108334

(E)
BUILDING S
A#108334

(E)
BUILDING E
A#03-108334

(E) PA

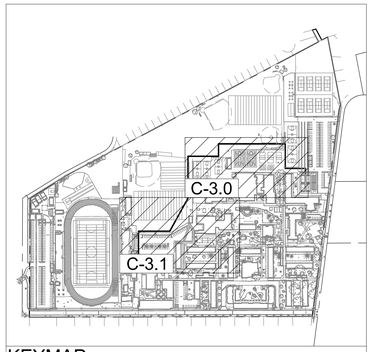
(E)
BUILDING E
A#03-108334

(317.36 FS)
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(317.84 FS)
(317.58 FS)
(318.01 FS)
(318.00 FS)

(E)
SERVICE
YARD
ENCLOSURE
A#03-12231

SHEET NOTES:

1. ALL GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE JURISDICTIONAL AGENCIES.
2. NO GRADING WORK SHALL BE PERFORMED AT ANY TIME WITHOUT AN EROSION SYSTEM APPROVED BY THE ENGINEER AND THE JURISDICTIONAL DISTRICT.
3. CONTRACTOR SHALL RECOMPACT THE TOP 12" OF THE PAVING SUB GRADE TO 95% MAXIMUM RELATIVE DENSITY.
4. THE CONTRACTOR SHALL NOT BEGIN THE PAVING OPERATION UNTIL THE SUB GRADE HAS BEEN APPROVED BY THE DISTRICT RETAINED GEOTECHNICAL ENGINEER AND IOR.



KEYMAP
NTS

ENLARGED SITE
GRADING PLAN

20 10 0 20 40

SCALE: 1" = 20'

PLEASE RECYCLE

AGENCY APPROVAL:

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NOTES

REGISTERED PROFESSIONAL ENGINEER
ANTONIETTO D. ALVAREZ
No. 36079
Exp. 6/30/28
CIVIL
STATE OF CALIFORNIA

VCA ENGINEERS INC
CIVIL & STRUCTURAL
831 S. Atlantic Blvd
Monterey Park, CA 91754
Tel: 323.729.6088 Fax: 323.729.6043

FACILITY:

4921 CEDAR AVENUE
EL MONTE, CALIFORNIA 91732

PROJECT:

EMUSD ARROYO HIGH SCHOOL - CAMPUS WIDE ELECTRICAL UPGRADE

SHEET NAME:

ENLARGED SITE GRADING PLAN

DSA BACK CHECK

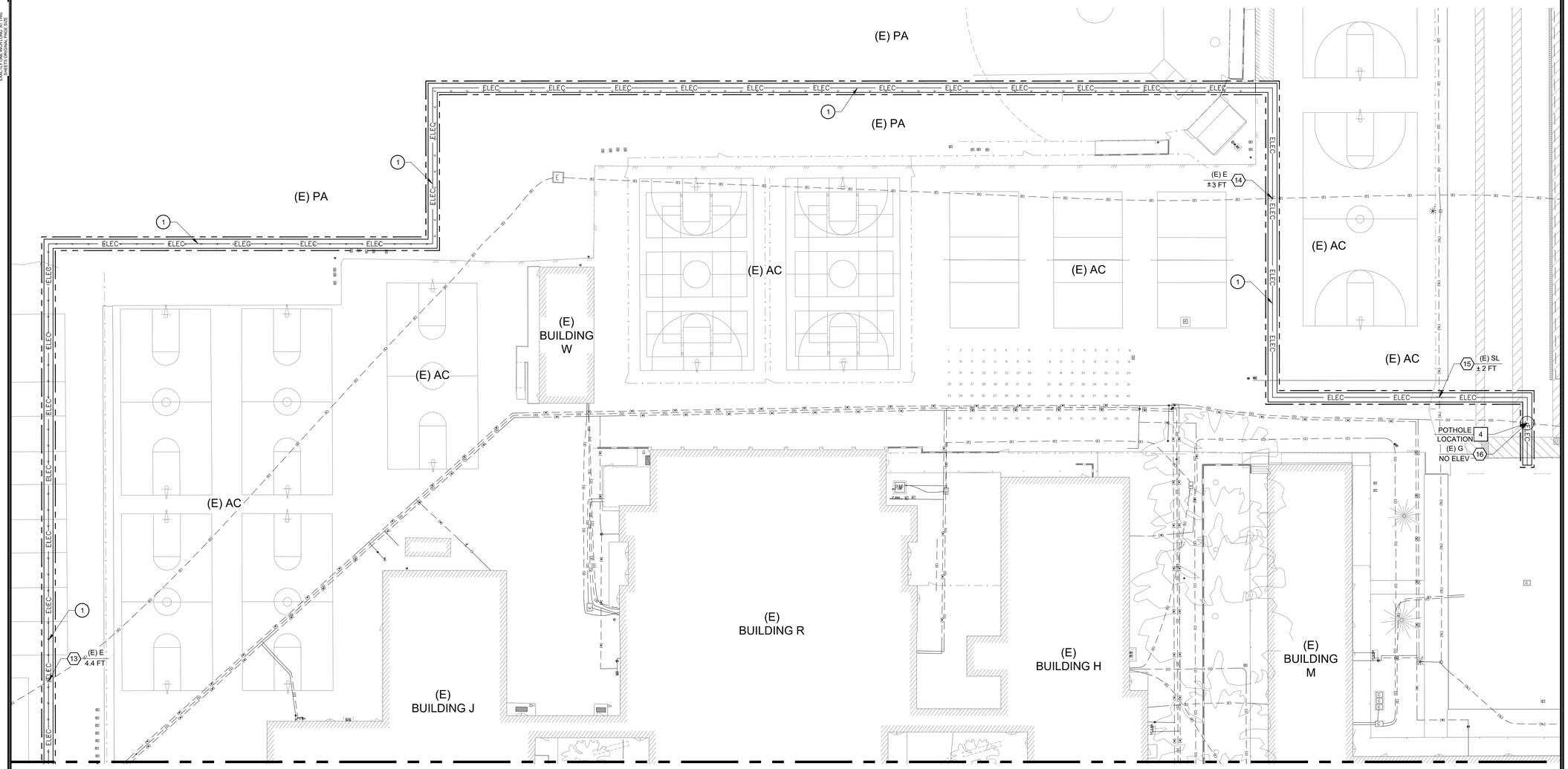
FILE NO.: **19-H10** | A NO: **03-123641**

DATE: **2026.07.08** | CLIENT PROJ NO: **3361-008-103**

SHEET:

C-3.1

BID SET



CONSTRUCTION NOTES:

ELECTRICAL:

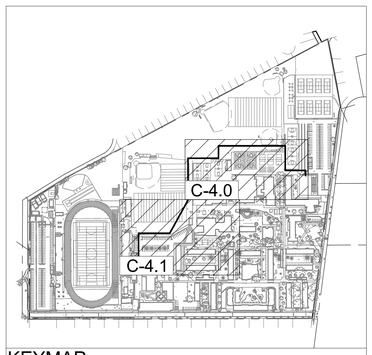
1. INSTALL ELECTRICAL UTILITY LINE / CONDUIT PER ELECTRICAL DRAWINGS. FOR TRENCH SECTION REFER TO DETAIL 5 ON SHEET C-5.0.

SHEET NOTES:

1. FOR GENERAL NOTES, LEGENDS AND ABBREVIATIONS, SEE SHEET C-1.0.
2. SEE ARCHITECTURAL DRAWINGS FOR OTHER SITE RELATED DIMENSIONS NOT SHOWN ON THIS DRAWING.
3. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL SURFACE AND/OR UNDERGROUND UTILITIES IN CONFLICT WITH THE PROPOSED DEMOLITION AND DESIGN ITEMS. CONTRACTOR SHALL REPORT ANY DISCREPANCIES AND/OR CONSTRUCTION RELATED ISSUES TO THE OWNER OR DESIGN TEAM PRIOR TO THE COMMENCEMENT OF WORK.
4. CONTRACTOR TO VERIFY IN FIELD THE JOINING TO EXISTING ELEVATION AND THE CURRENT SITE CONDITION WITH THE DESIGN GRADES. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE OWNER OR DESIGN TEAM PRIOR TO THE COMMENCEMENT OF WORK.
5. HAND DIG ONLY AT LOCATIONS WHERE UNDERGROUND UTILITIES NEED TO BE PROTECTED IN PLACE.

ELEVATION SUMMARY:

1. (E) STREET LIGHT LINE = 2 FT (CROWN)
2. (E) ELECTRICAL LINE = 7.2 FT (CROWN)
3. (E) ELECTRICAL LINES = 1.7 FT AND 3.4 FT (CROWN)
4. (E) STREET LIGHT LINE = 2 FT (CROWN)
5. (E) COMMUNICATION AND ELECTRICAL LINE = 3.9 FT (CROWN)
6. (E) STREET LIGHT LINE = 2 FT (CROWN)
7. (E) SANITARY SEWER LINE = 4.7 FT (CROWN)
8. (E) WATER LINE = NO ELEVATION PROVIDED
9. (E) WATER LINE = NO ELEVATION PROVIDED
10. (E) ELECTRICAL LINE = 5.7 FT (CROWN)
11. (E) STORM DRAIN LINE = 1 FT (CROWN)
12. (E) WATER AND GAS LINE = NO ELEVATION PROVIDED
13. (E) ELECTRICAL LINE = 4.4 FT (CROWN)
14. (E) ELECTRICAL LINE = 3 FT (CROWN)
15. (E) STREET LIGHT LINE = 2 FT (CROWN)
16. (E) GAS LINE = NO ELEVATION PROVIDED



KEYMAP
NTS

ENLARGED SITE UTILITY PLAN

20 10 0 20 40

SCALE: 1" = 20'

PLEASE RECYCLE

THE LINE BROWN ABOVE IS EXACTLY 1" WHEN PRINTED ON 24 X 36 SHEETS ORIGINAL PAGE SIZE

AGENCY APPROVAL:

HMC DESIGN FOR GOOD Architects
3361008103
633 W. 5TH STREET, THIRD FLOOR,
LOS ANGELES, CA, 90071
213 542 8300 / www.hmcarchitects.com

ISSUE

Δ	DESCRIPTION	DATE
	DSA SUBMITTAL	03/04/26
	DSA BACKCHECK	10/19/26

KEYNOTES

NOTES

REGISTERED PROFESSIONAL ENGINEER — CHRISTOPHER C. ANDERSON — No. C36079 — Exp. 6/30/28 — CIVIL — STATE OF CALIFORNIA

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FACILITY:

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EL MONTE, CALIFORNIA 91732

PROJECT:

EMUSD ARROYO HIGH SCHOOL - CAMPUS WIDE ELECTRICAL UPGRADE

SHEET NAME:

ENLARGED SITE UTILITY PLAN

DSA BACK CHECK

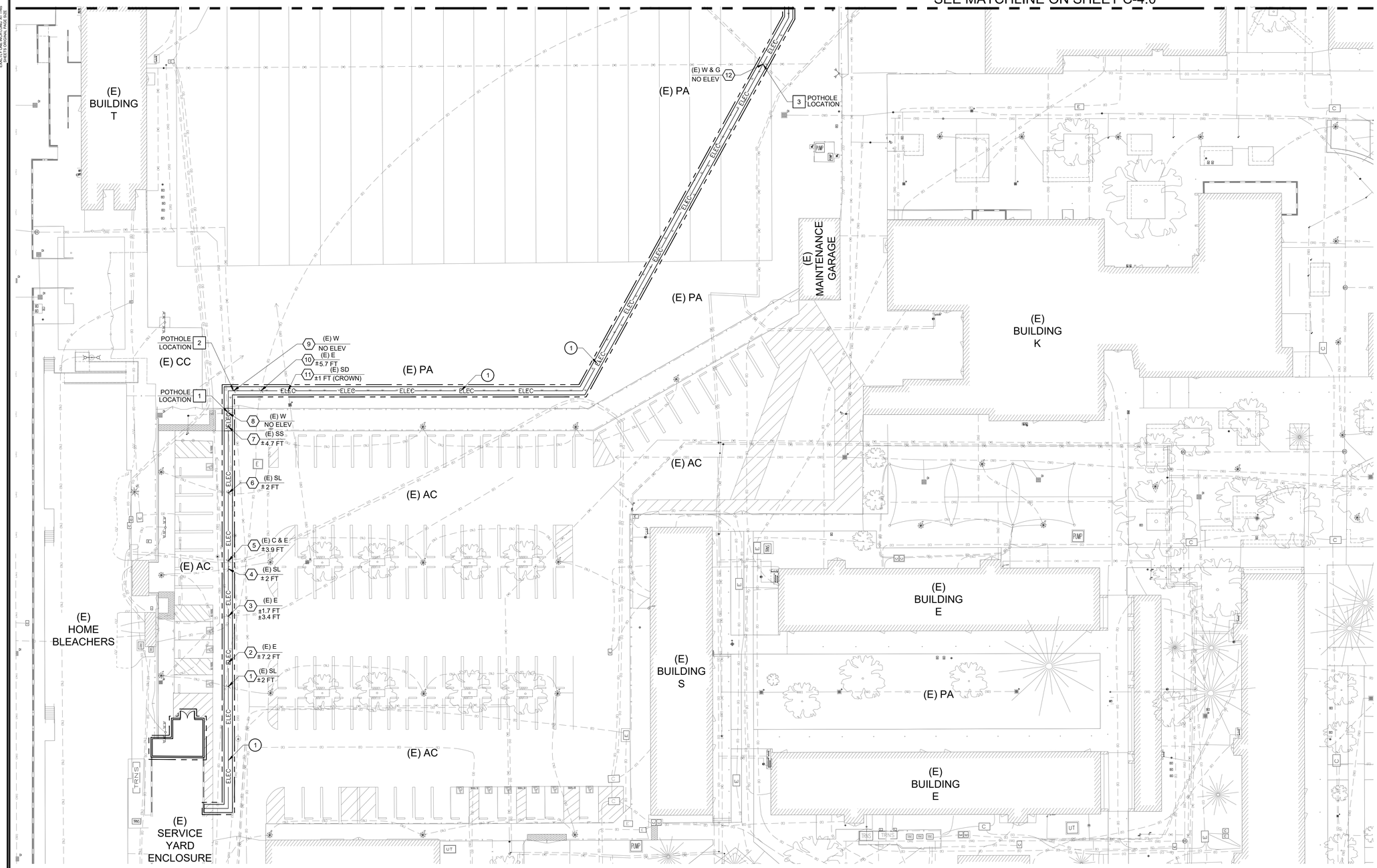
FILE NO.: **19-H10** | A NO: **03-123641**

DATE: **2026.07.08** | CLIENT PROJ NO: **3361-008-103**

SHEET:

C-4.0

BID SET



CONSTRUCTION NOTES:

ELECTRICAL:

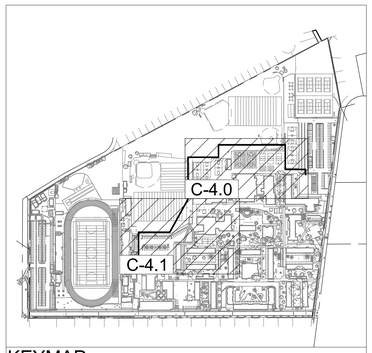
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KEYMAP
NTS

ENLARGED SITE UTILITY PLAN

20 10 0 20 40

SCALE: 1" = 20'

PLEASE RECYCLE

AGENCY APPROVAL:

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633 W. 5TH STREET, THIRD FLOOR,
LOS ANGELES, CA, 90071
213 542 8300 / www.hmcarchitects.com

ISSUE

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	DSA SUBMITTAL	03/04/26
	DSA BACKCHECK	10/19/26

KEYNOTES

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LICENSED PROFESSIONAL ENGINEER
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EMUSD ARROYO HIGH SCHOOL - CAMPUS WIDE ELECTRICAL UPGRADE

SHEET NAME:

ENLARGED SITE UTILITY PLAN

DSA BACK CHECK

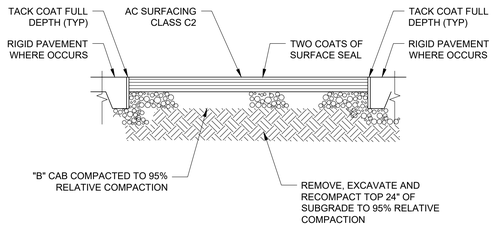
FILE NO.: **19-H10**
A NO: **03-123641**
DATE: **2026.07.08**
CLIENT PROJ NO: **3361-008-103**
SHEET:

C-4.1

BID SET

THE LINE BROKEN ABOVE IS EXACTLY ONE INCH ON ALL ANSI SHEETS ORIGINAL PAGE SIZE

LOCATION	A C		BASE COURSE		
	THICKNESS "A"	CLASS	THICKNESS "B"	TYPE	GRADE
TRACK LOCATION/ PARKING/LIGHT TRAFFIC	4"	C2	6"	CAB	FINE

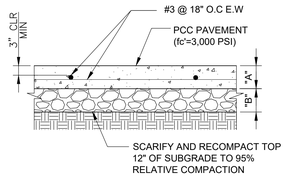


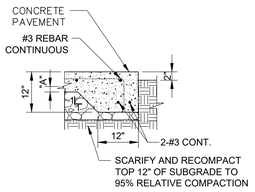
NOTES:

1. FOR PAVEMENT JOINT REFER TO DETAIL 4 ON THIS SHEET.
2. THE EXISTING GRADE IN THIS AREA SHOULD BE REMOVED AND RECOMPACTED A MINIMUM OF TWELVE INCHES (12") BELOW THE PROPOSED SUBGRADE ELEVATION.

1 ASPHALT PAVEMENT DETAIL
NOT TO SCALE

LOCATION	CONCRETE PAVEMENT	CRUSHED AGGREGATE BASE
	THICKNESS "A"	THICKNESS "B"
NON-TRAFFIC	6"	6"



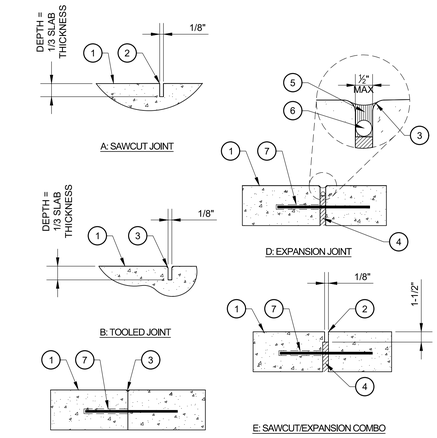


THICKENED EDGE

NOTES:

1. CONCRETE, fc'=3000 psi @ 28 DAYS.
2. REBARS, fy=60,000 psi ASTM AG15.
3. FOR WPJ CONSTRUCTION JOINTS AND PATTERN, REFER TO ARCHITECTURAL AND LANDSCAPE DRAWINGS AND SPECIFICATIONS.
4. PAVING SHALL HAVE A MEDIUM BROOM FINISH ON ALL SURFACES LESS THAN 6% AND A HEAVY BROOM FINISH ON ALL SURFACES GREATER THAN 6%.
5. CRACK CONTROL JOINTS SHOULD BE SPACED @ INTERVALS NOT GREATER THAN 10' USING SAWCUTS AND EXTEND MINIMUM OF 1/4 THE SLAB THICKNESS.
6. FOR FINISH SURFACES, COLOR INTEGRATION, EXPANSION JOINTS AND OTHER PAVEMENT SURFACE FEATURES, SEE ARCHITECTURAL & LANDSCAPE DRAWINGS.
7. PROVIDE ½" EXPANSION JOINT AT THE BUILDING.
8. FOR PAVEMENT SUBJECT TO VEHICULAR TRAFFIC, OVEREXCAVATE THE UPPER 2FT OF EXISTING SUBGRADE OR TO A DEPTH THAT PROVIDES 2FT OF COMPACTED FILL BENEATH PAVEMENT SECTION, WHICHEVER IS DEEPER.

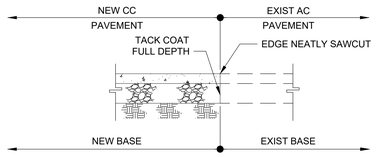
2 CONCRETE PAVEMENT DETAIL
NOT TO SCALE

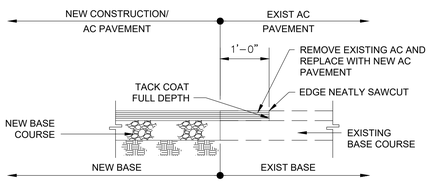


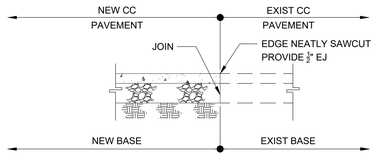
LEGENDS:

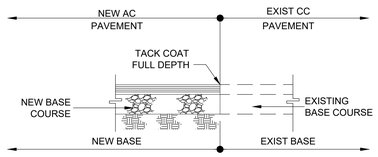
1. PAVING FINISH SURFACE.
2. SAWCUT.
3. 1/8" R. @ EDGES. TYP.
4. PREMOLDED E.J. FILLER.
5. JOINT SEALANT. COLOR TO BE SELECTED BY ARCHITECT. SUBMIT COLOR SAMPLES PRIOR TO INSTALLATION.
6. BACKER ROD.
7. 18" #4 REBAR W/ 'SPEED DOWEL' @ 24" O.C., CENTER IN CONC. AT COLD JOINTS & E.J.'S.
8. CONTROL JOINTS 20 O.C MAX.COORDINATE WITH LANDSCAPE DRAWING FOR JOINT LOCATIONS.
9. CONTRACTOR TO SUBMIT SHOP DRAWINGS OF CONTROL JOINT AND EXPANSION JOINT LAYOUT.

3 JOINT DETAIL
NOT TO SCALE

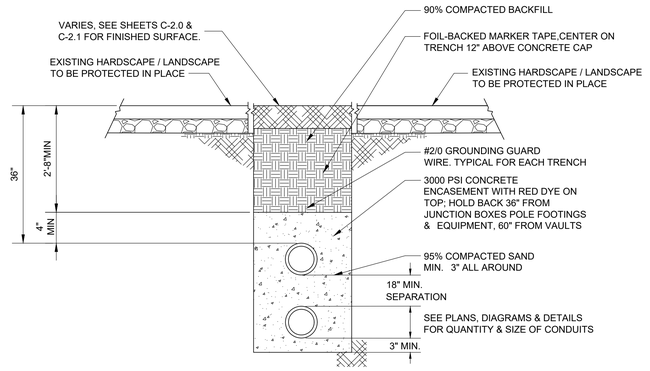








4 PAVEMENT JOINT DETAIL
NOT TO SCALE



NARROW UNSUPPORTED VERTICAL WALLED TRENCH WIDTH

NOMINAL PIPE DIAMETER (INCHES)	NARROW TRENCH WIDTH MIN. (INCHES)
4	18
6	18
8	24
10	30
12	30
15	30
18	30
24	30
30	30

** CEMENT-SAND SLURRY = MIN. 2-SACK MIX HAVING A SLUMP NO GREATER THAN 5 INCHES.

NOTES:

PAVEMENT FINISH SURFACE SHALL BE A SMOOTH CONTINUATION OF ADJOINING PAVED SURFACE.

5 TRENCH SECTION
NOT TO SCALE

NOTES:

1. PROVIDE 1/4" EXPANSION JOINT WITH PREFORMED JOINT FILLER AT ALL ANGLE POINTS AND THE BEGINNING AND END OF ALL CURVES.
2. PROVIDE CONTRACTION JOINTS CONSISTING OF ONE INCHDEEP CUT SCORES AT 20' O.C. MAX.
3. WHERE A WALK IS ADJACENT TO THE CURB, THE JOINTSSHALL LINE WITH JOINTS IN THE WALK.
4. A = 4" UNLESS OTHERWISE NOTED.

6 CONCRETE CURB
NOT TO SCALE

AGENCY APPROVAL:

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ISSUE

Δ	DESCRIPTION	DATE
	DSA SUBMITTAL	03/04/26
	DSA BACKCHECK	10/19/26

KEYNOTES

NOTES

REGISTERED PROFESSIONAL ENGINEER — ROBERTO C. ARANA — 36079 — Exp. 6/30/28 — CIVIL — STATE OF CALIFORNIA

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FACILITY:

4921 CEDAR AVENUE
EL MONTE, CALIFORNIA 91732

PROJECT:

EMUSD ARROYO HIGH SCHOOL - CAMPUS WIDE ELECTRICAL UPGRADE

SHEET NAME:

MISCELLANEOUS DETAILS

BID SET

DSA BACK CHECK

FILE NO.: **19-H10** | A NO: **03-123641**

DATE: **2026.07.08** | CLIENT PROJ NO: **3361-008-103**

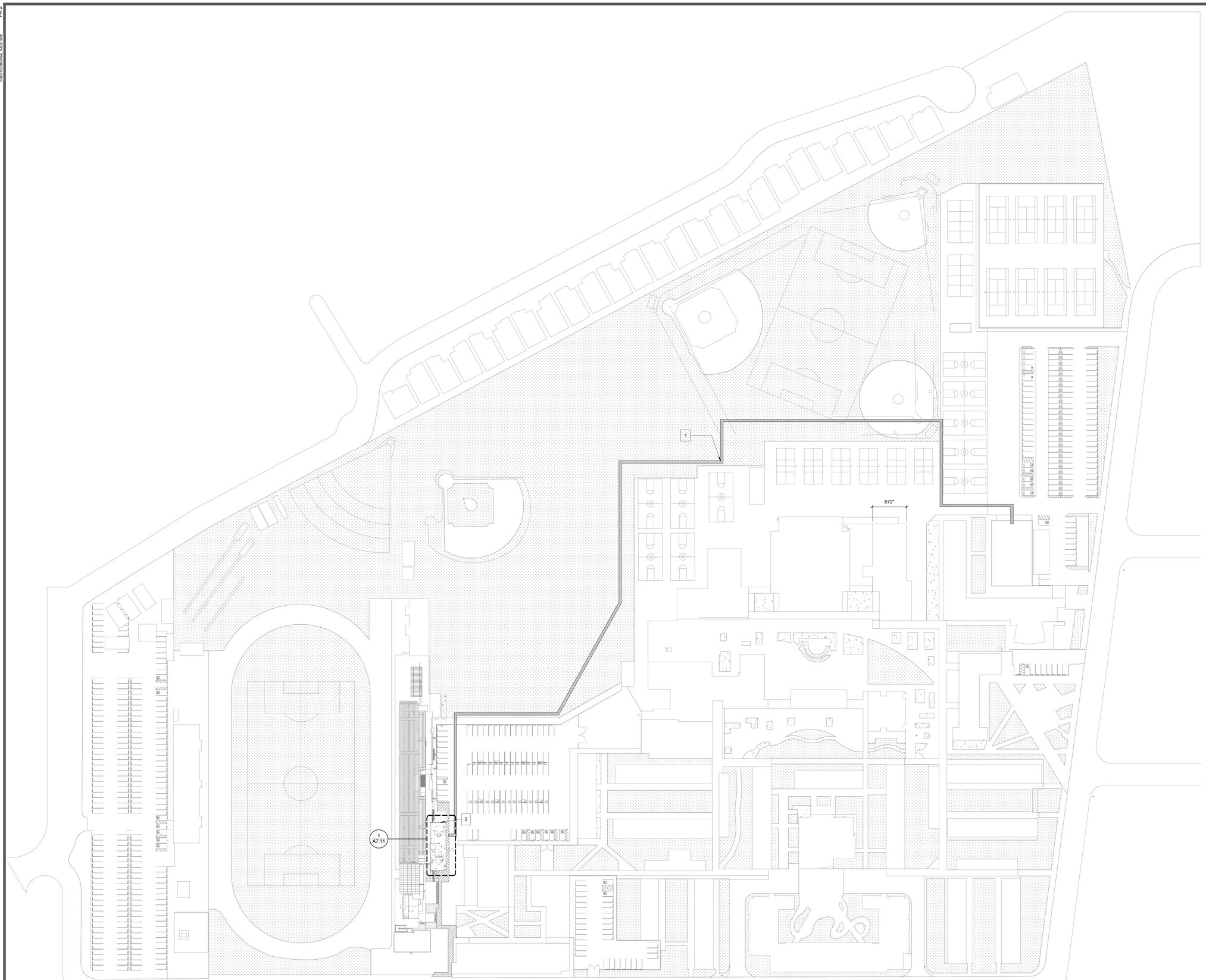
SHEET:

C-5.0

PLEASE RECYCLE

PK 5

THE LINE SHOWN ABOVE IS EQUIVALENT TO 1" ON ALL SHEETS ORIGINAL PAGE SIZE



ARCHITECTURAL DEMOLITION SITE PLAN

1
1" = 60'-0"

PLEASE RECYCLE

DEMOLITION NOTES

1 TRENCHES - SEE CIVIL AND ELECTRICAL PLANS FOR DETAILS

2 PARTIAL DEMOLITION AT MECH YARD

GENERAL NOTES

1. REFER TO SHEET G0.11 FOR TYPICAL SYMBOLS AND ABBREVIATIONS.
2. REFER TO G-SERIES SHEETS FOR ADDITIONAL INFO AND CODE REQUIREMENTS.
3. FOR ADDITIONAL ELEVATION CALLOUTS SEE ENLARGED PLANS.
4. REFER TO PARTIAL PLANS FOR MORE INFORMATION. OVERALL PLANS ARE INTENDED TO PROVIDE CONTEXT FOR PARTIAL PLANS.
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LEGEND

- APPROXIMATE LIMIT OF WORK. REFER TO ADDITIONAL DRAWINGS FOR WORK WHICH MAY EXTEND BEYOND THIS APPROXIMATE LIMIT OF WORK LINE.
- PROPERTY LINE
- EXISTING BUILDINGS
- (E) - TURF
- TRENCHES - SEE CIVIL AND ELECTRICAL PLANS FOR DETAIL

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LICENSED ARCHITECT
VIRGINIA ELAINE MARQUARDT
No. C-33423
06/30/2027
STATE OF CALIFORNIA

ISSUE

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FACILITY:

4921 Cedar Ave
El Monte, CA 91732

PROJECT:

EMUSD ARROYO HS - ELECTRICAL UPGRADE WITH MECHANICAL YARD EXTENSION

SHEET NAME:

SITE DEMOLITION PLAN

100% CONSTRUCTION DOCUMENTS

DATE: **2026.10.19**

CLIENT PROJ NO: **3361-008-103**

SHEET:

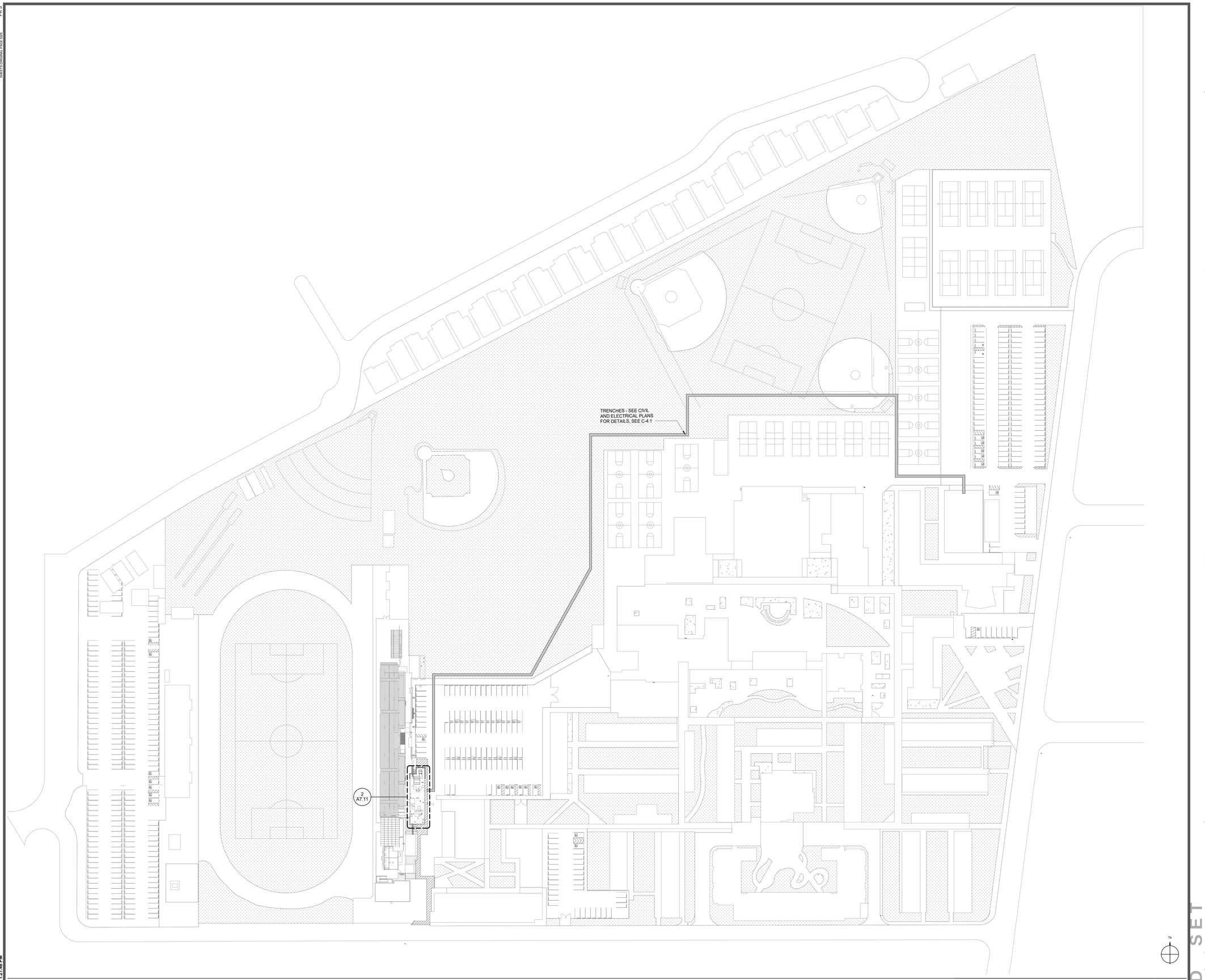
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BID SET

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PK 5

THE LINE SHOWN ABOVE IS EQUAL TO 1" WHEN PLOTTED ON THIS SHEET'S ORIGINAL PAGE SIZE



CAMPUS SITE PLAN 1
1" = 60'-0"

PLEASE RECYCLE

BID SET

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SHEET NAME:

CAMPUS SITE PLAN

100% CONSTRUCTION DOCUMENTS

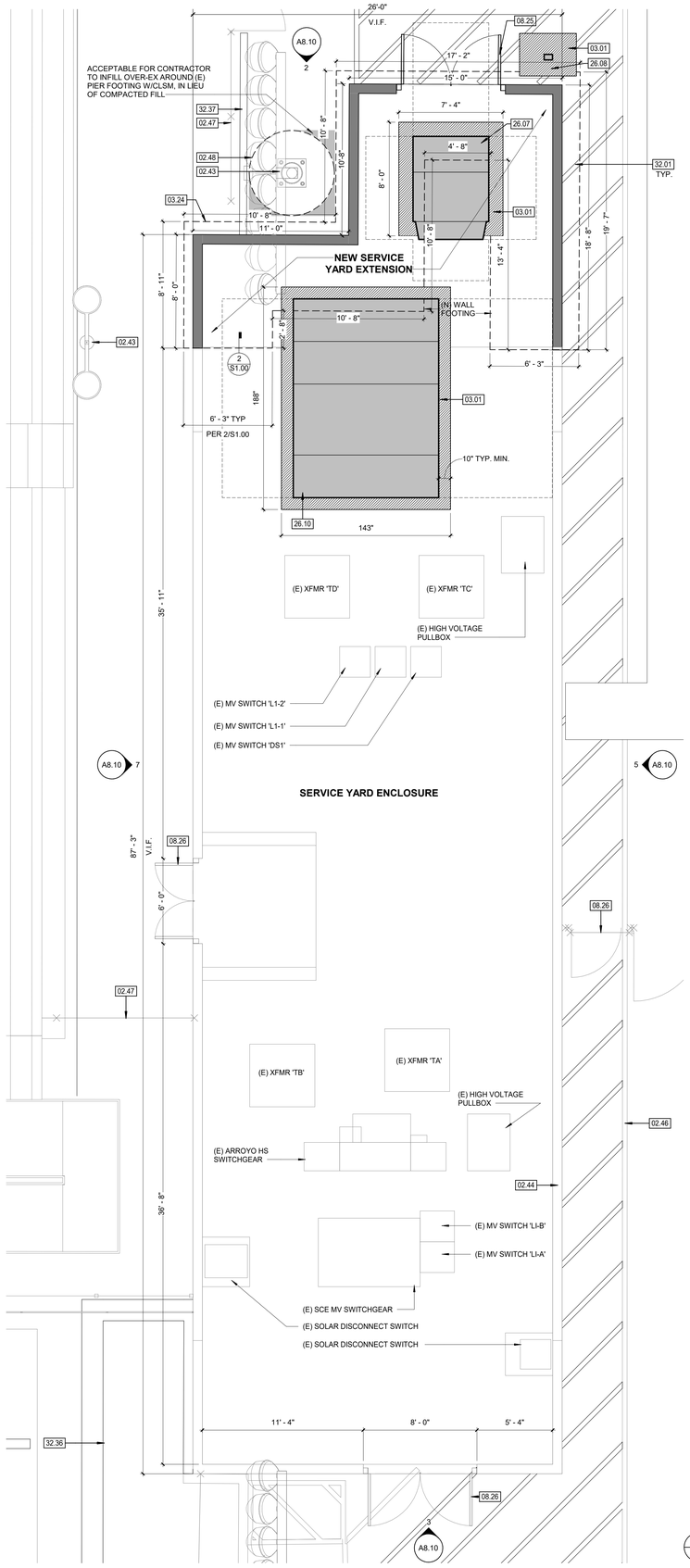
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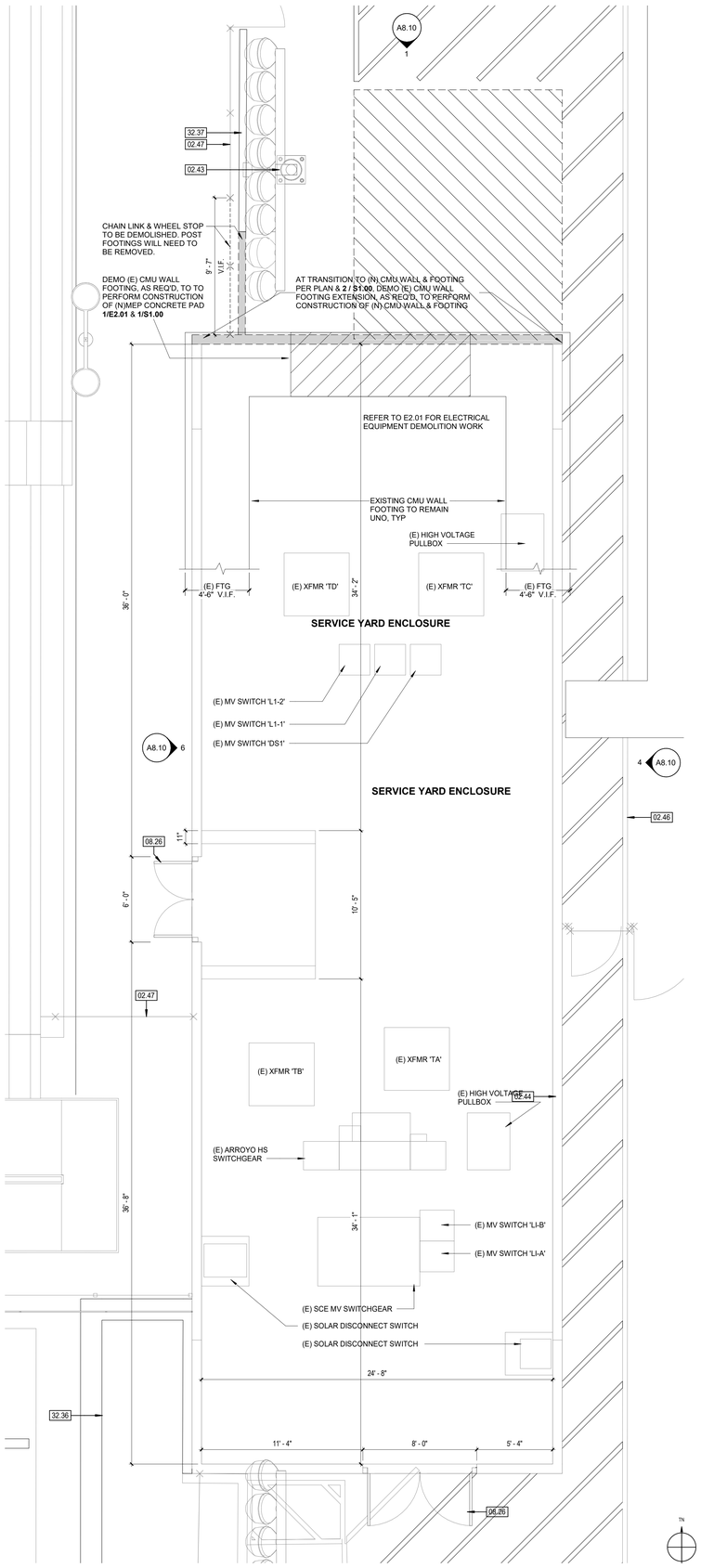
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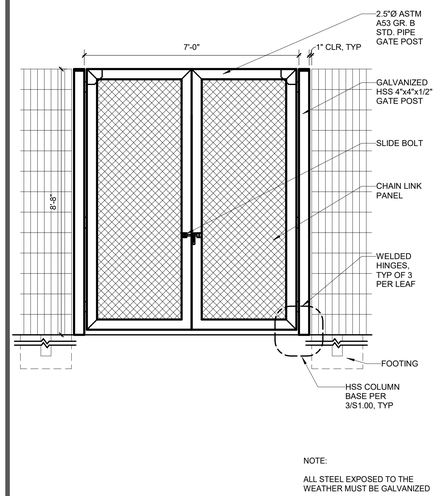
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PK 5

THE LINE SHOWN ABOVE IS EQUIVALENT TO 1" ON ALL SHEETS ORIGINAL PAGE SIZE







NOTE:

ALL STEEL EXPOSED TO THE WEATHER MUST BE GALVANIZED

CHAIN LINK METAL SECURITY SWING GATE - PAIR | **3** 1/2" = 1'-0"

SERVICE YARD | **2** 1/4" = 1'-0"

SERVICE YARD - DEMOLITION PLAN | **1** 1/4" = 1'-0"

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KEYNOTES

02.43	(E) MUSCO LIGHT | A#03-108641
02.44	(E) CMU WALLS | A#03-108334
02.46	(E) STRIPPED CIRCULATION AREA | A#03-121878
02.47	(E) CHAIN LINK FENCE
02.48	(E) 6'-0" DIA LIGHT POLE PIER FOOTING, VIF.
03.01	(N) CONCRETE PAD PER 1/S1.00
03.24	NEW CONCRETE FOOTING. SEE STRUCTURAL PLANS FOR DETAILS
08.25	NEW SERVICE GATE | 3/A7.11
08.26	NEW DOUBLE LEAF GATE | 11/A10.01
26.07	(N) ARROYO HS MV XFMR | 2/E9.03 REQUIRED CLEARANCES FRONT 8' MIN. REAR 3' MIN. SIDES 3' MIN.
26.08	NEW PULLBOX
26.10	(N) MV 16KV SWITCHGEAR-ARROYO HS | 1/E9.03 REQUIRED CLEARANCES FRONT 8' MIN. REAR 5' MIN SIDES 3' MIN.
32.01	PATCH AND REPAIR EXISTING ASPHALT PAVING TO MATCH EXISTING. PROVIDE NEW PAVING MARKING TO MATCH EXISTING.
32.36	(E) PLANTER
32.37	(E) CONCRETE WHEEL STOP

NOTES

1. REFER TO SHEET G0.11 FOR TYPICAL SYMBOLS AND ABBREVIATIONS.
2. REFER TO G-SERIES SHEETS FOR ADDITIONAL INFO AND CODE REQUIREMENTS.
3. FOR ADDITIONAL ELEVATION CALLOUTS SEE ENLARGED PLANS.
4. REFER TO INTERIOR ELEVATIONS FOR ALL CASEWORK INFORMATION.

LEGEND

- EXISTING ELEMENT TO REMAIN
- EXISTING ELEMENT TO BE DEMOLISHED
- NEW CMU WALL TO MATCH EXISTING
- AREA TO BE DEMOLISHED
- CONCRETE PAD PER 1/S1.00
- NEW ELECTRICAL EQUIPMENT

FACILITY:

4921 Cedar Ave
El Monte, CA 91732

PROJECT:

EMUSD ARROYO HS - ELECTRICAL UPGRADE WITH MECHANICAL YARD EXTENSION

SHEET NAME:

ENLARGED PLAN - SERVICE YARD

100% CONSTRUCTION DOCUMENTS

DATE: **2026.10.19** | CLIENT PROJ NO: **3361-008-103**

SHEET:

A7.11

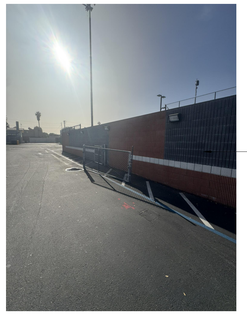
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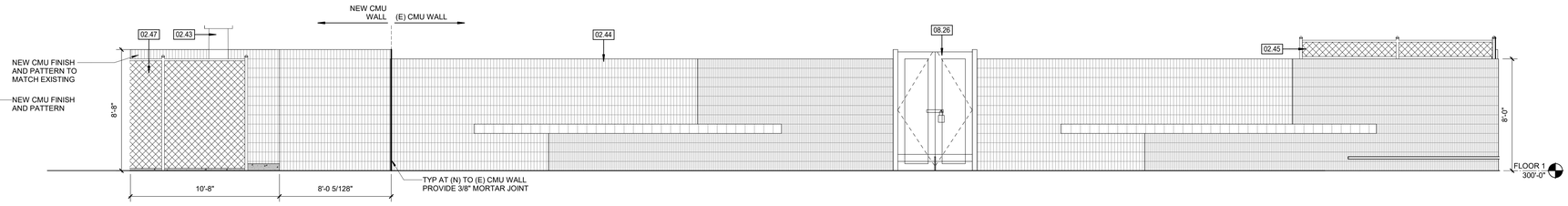
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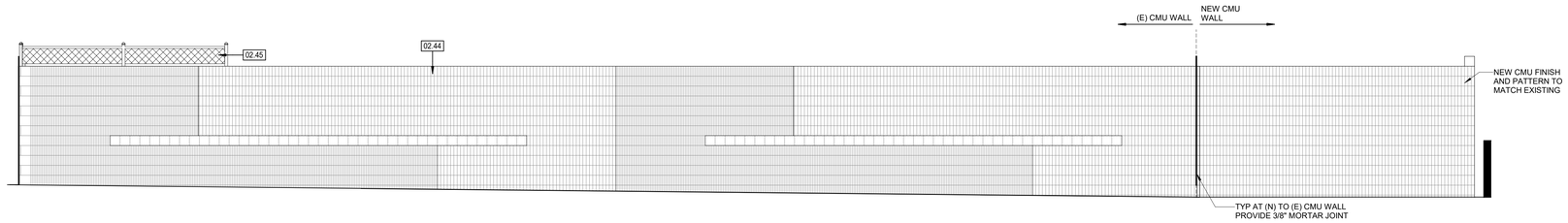




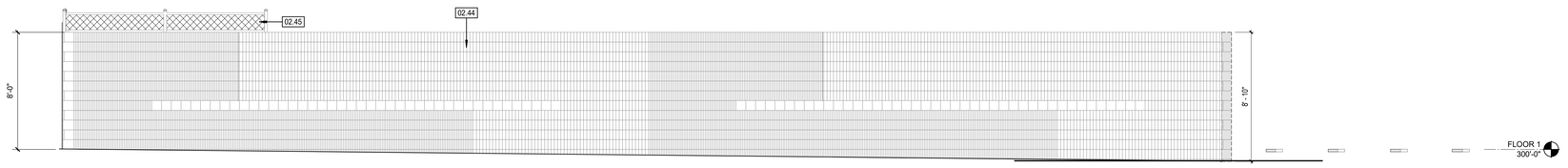
SERVICE YARD - WEST 7
1/4" = 1'-0"



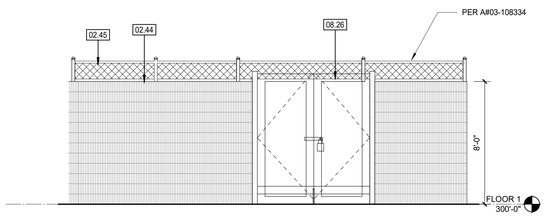
DEMO - SERVICE YARD - WEST 6
1/4" = 1'-0"



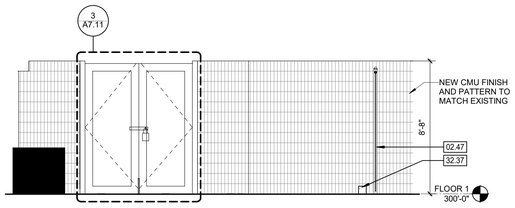
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1/4" = 1'-0"



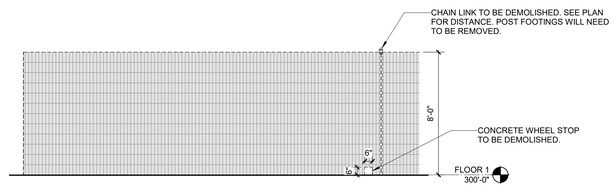
DEMO - SERVICE YARD - EAST 4
1/4" = 1'-0"



SERVICE YARD - SOUTH 3
1/4" = 1'-0"



SERVICE YARD - NORTH 2
1/4" = 1'-0"



DEMO - SERVICE YARD - NORTH 1
1/4" = 1'-0"

KEYNOTES

02.43	(E) MUSCO LIGHT | A#03-108641
02.44	(E) CMU WALLS | A#03-108334
02.45	(E) CHAIN LINK FENCE ABOVE CMU WALL | A#03-108334
02.47	(E) CHAIN LINK FENCE
08.26	NEW DOUBLE LEAF GATE | 11/A10.01
32.37	(E) CONCRETE WHEEL STOP

NOTES

HMC Architects
DESIGN FOR GOOD
3361-008-103
633 W. 5TH STREET, THIRD FLOOR,
LOS ANGELES, CA, 90071
213 542 8300 / www.hmcarchitects.com

LICENSED ARCHITECT
VIRGINIA ELAINE MARQUARDT
No. C-33423
06/30/2027
STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE
	DSA SUBMITTAL	03/04/26
	DSA BACKCHECK	10/19/26

FACILITY:

4921 Cedar Ave
El Monte, CA 91732

PROJECT:

EMUSD ARROYO HS - ELECTRICAL UPGRADE WITH MECHANICAL YARD EXTENSION

SHEET NAME:

SERVICE YARD - ELEVATIONS

100% CONSTRUCTION DOCUMENTS

DATE: **2026.10.19**

CLIENT PROJ NO: **3361-008-103**

SHEET:

A8.10

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STRUCTURAL STEEL (CONTINUED)

11. DIFFUSIBLE HYDROGEN LEVEL FOR ELECTRODES AND ELECTRODE-FLUX COMBINATION SHALL MEET THE REQUIREMENTS TABLE 6.3 OF AWS D1.8/D1.8M.

12. DETAILS, MATERIALS, WORKMANSHIP, AND TESTING AND INSPECTION REQUIREMENTS OF WELDED JOINTS COMPRISING THE SFRS SHALL CONFORM TO THE FOLLOWING APPLICABLE STANDARDS:

    A. AWS D1.1/D1.1M "STRUCTURAL WELDING CODE - STEEL."
    B. AWS D1.8/D1.1M "STRUCTURAL WELDING CODE - SEISMIC SUPPLEMENT."
    C. ANSI/AISC 341, "SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS", CHAPTER J (QUALITY CONTROL AND QUALITY ASSURANCE).
    D. ANSI/AISC 358 "PREQUALIFIED CONNECTIONS FOR SPECIAL AND INTERMEDIATE STEEL MOMENT FRAMES FOR SEISMIC APPLICATIONS."

13. INTERMIX OF FILLER METAL: WHEN FCAW-S FILLER METALS ARE USED IN COMBINATION WITH FILLER METALS FOR OTHER PROCESSES, INCLUDING FCAW-G, SUPPLEMENTAL CVN NOTCH TOUGHNESS TESTING SHALL BE CONDUCTED IN ACCORDANCE WITH ONE OF MORE OF THE FOLLOWING:

    A. TESTS AS DESCRIBED IN ANNEX B OF AWS D1.8/D1.8M.
    B. PQR TESTS THAT CONTAIN INTERMIX WELD METAL, WHEREIN CVN TEST SPECIMENS HAVE BEEN TAKEN FROM THE INTERMIX ZONE.

DSA-103 FORM STRUCTURAL TESTS, SPECIAL INSPECTIONS AND EXEMPTIONS

1. IN ADDITION TO THE TESTING / INSPECTION INFORMATION AND REQUIREMENTS INDICATED ON THIS GENERAL NOTES SHEET, REFER TO DSA-103 FORM FOR ADDITIONAL STRUCTURAL TESTING, SPECIAL INSPECTION REQUIREMENTS AND ANY SELECTED EXEMPTIONS.

2. IN THE EVENT OF A CONFLICT BETWEEN THE DRAWINGS, SPECIFICATIONS AND DSA-103 FORM, THE MORE STRINGENT REQUIREMENT SHALL APPLY. A CLARIFICATION RFI IS TO BE SUBMITTED TO THE AOR/SEOR AND A CCD PREPARED FOR DSA REVIEW AND APPROVAL, AS DEEMED APPROPRIATE.

3. CONCRETE BATCH PLANT INSPECTIONS ARE EXEMPT / WAIVED ALTOGETHER PER CBC SECTION 1705A.3.3.2 FOR ALL CONCRETE APPLICATIONS, PROVIDED THE FOLLOWING CBC 1705A.3.3.1 REQUIREMENTS FOR LICENSED WEIGHTMASTER AND BATCH TICKETS ARE MET:

    A. A LICENSED WEIGHTMASTER SHALL POSITIVELY IDENTIFY QUANTITY OF MATERIALS AND CERTIFY EACH LOAD BY A BATCH TICKET.

    B. BATCH TICKETS, INCLUDING MATERIAL QUANTITIES AND WEIGHTS SHALL ACCOMPANY THE LOAD, SHALL BE TRANSMITTED TO THE INSPECTOR OF RECORD BY THE TRUCK DRIVER WITH LOAD IDENTIFIED THERON. THE LOAD SHALL NOT BE PLACED WITHOUT A BATCH TICKET IDENTIFYING THE MIX. THE INSPECTOR OF RECORD SHALL KEEP A DAILY RECORD OF PLACEMENTS, IDENTIFYING EACH TRUCK, ITS LOAD, AND TIME OF RECEIPT AT THE JOBSITE, AND APPROXIMATE LOCATION OF DEPOSIT IN THE STRUCTURE AND SHALL MAINTAIN A COPY OF THE DAILY RECORD AS REQUIRED BY THE ENFORCEMENT AGENCY.

INSPECTOR OF RECORD (IOR)

1. IOR'S SHALL HAVE CLASS 3 CERTIFICATION AND BE APPROVED BY DSA AS REQUIRED BY INTERPRETATION OF REGULATIONS (IR) A-7.

Sheet Number	Sheet Name	Issue For 01
S0XX SERIES - GENRAL NOTES		
S0.01	GENERAL NOTES	
S1XX SERIES - OVERALL VIEWS, LOADING PLANS, & OTHER PLANS		
S1.00	DETAILS	
Grand total: 2		

CONCRETE MASONRY UNITS (CONTINUED)

9. CELLS SHALL BE IN VERTICAL ALIGNMENT. ALL CELLS SHALL BE GROUTED SOLID UNLESS OTHERWISE NOTED. CONSOLIDATE BY MECHANICAL VIBRATION AND RECONSOLIDATE BY MECHANICAL VIBRATION AFTER INITIAL WATER LOSS AND SETTLEMENT HAS OCCURRED.

10. SEE REINFORCING STEEL GENERAL NOTES FOR REINFORCING STEEL IN CMU.

11. WALL AND PILASTER DOWELS IN FOOTINGS SHALL MATCH SIZE, GRADE, AND SPACING OF RESPECTIVE VERTICAL REINFORCING UNLESS OTHERWISE NOTED. DOWELS SHALL BE SET TO ALIGN WITH CELLS CONTAINING REINFORCING STEEL.

12. REINFORCING STEEL SHALL BE SECURED AGAINST DISPLACEMENT PRIOR TO GROUTING USING WIRE POSITIONERS AT INTERVALS NOT EXCEEDING 200 BAR DIAMETERS. PROVIDE A MINIMUM OF ONE BAR DIAMETER, LARGEST SIZE AGGREGATE PLUS 1/4 INCH, OR 1/2 INCH, WHICHEVER IS GREATER, GROUT BETWEEN MAIN REINFORCING STEEL AND MASONRY UNIT.

13. REINFORCING STEEL, EXCEPT JOINT REINFORCING, SHALL BE COMPLETELY EMBEDDED IN MORTAR OR GROUT AND HAVE A MINIMUM COVER, INCLUDING CMU SHELL, AS FOLLOWS:

    A. CMU NOT EXPOSED TO EARTH OR WEATHER ....1-1/2"
    B. CMU EXPOSED TO EARTH OR WEATHER:
    NO. 6 AND LARGER ....2"
    NO. 5 AND SMALLER ....1-1/2"

14. MINIMUM CLEARANCE BETWEEN PARALLEL REINFORCING STEEL SHALL BE ONE INCH, NOMINAL BAR DIAMETER, OR 4/3 TIMES THE MAXIMUM SIZE OF AGGREGATE, WHICHEVER IS GREATER.

15. MINIMUM CLEAR DISTANCE BETWEEN VERTICAL BARS IN COLUMN AND PILASTERS SHALL NOT BE LESS THAN 1.5 TIMES THE NOMINAL BAR DIAMETER, NOR LESS THAN 1 1/2 INCHES.

16. PROVIDE ONE INCH MINIMUM GROUT COVER AROUND ANCHOR BOLTS, REINFORCING STEEL DOWELS, AND OTHER INSERTS PENETRATING CMU SHELL. ANCHOR BOLTS SHALL BE HEADED TYPE BOLTS. ANCHOR BOLTS WITH HOOKED ENDS ARE NOT PERMITTED.

17. REFER TO ARCHITECTURAL DRAWINGS FOR SURFACE AND HEIGHT OF MASONRY UNITS, LAYING PATTERN AND JOINT TYPE. IF NOT SPECIFIED OTHERWISE ON ARCHITECTURAL DRAWINGS, USE 8"x8"x16" NATURAL GRAY PRECISION UNITS IN RUNNING BOND PATTERN WITH TOOLED CONCAVE MORTAR JOINT.

18. MORTAR JOINTS SHALL 3/8 INCH THICK (UNLESS NOTED OTHERWISE), EXCEPT THAT THICKNESS OF STARTER MORTAR JOINT PLACED OVER FOUNDATIONS SHALL NOT BE LESS THAN 1/4 INCH AND MORE THAN 3/4" INCH.

STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF ANSI/AISC 360 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" ANSI/AISC 341 "SEISMIC PROVISIONS FOR STRUCTURAL STEEL BUILDINGS", AND AISI/AISC 303 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES", AS AMENDED BY CALIFORNIA BUILDING CODE (CBC) SECTIONS 2203A, 2204A AND 2205A.

2. STRUCTURAL STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING ASTM STANDARDS, UNLESS NOTED OTHERWISE ON DRAWINGS:

PIPES	ASTM A53/A53M, GRADE B (Fy=35 KSI)
ROUND HOLLOW STRUCTURAL SECTIONS	ASTM A500/A500M, GRADE C (Fy=46 KSI)
RECTANGULAR HOLLOW STRUCTURAL SECTIONS	ASTM A500/A500M, GRADE C (Fy=50 KSI)
PLATES	ASTM A572/A572M, GRADE 50
ANCHOR BOLTS	ASTM F1554, GRADE 36 (UNO)
UNFINISHED MACHINE BOLTS	ASTM A307
THREADED ROUND STOCK	ASTM A36/A36M

FURNISH READILY IDENTIFIABLE STRUCTURAL STEEL IN COMPLIANCE WITH CBC SECTION 2203A.1.

3. SUBMIT SHOP DRAWINGS TO ARCHITECT (STRUCTURAL ENGINEER) FOR REVIEW AND, UPON REQUEST, TO GOVERNING CODE AUTHORITY. INDICATE AN ERECTION SEQUENCE OF WELDING TO MINIMIZE LOCKED-UP STRESSES OR DISTORTION FOR MOMENT-RESISTING STEEL FRAMES.

4. ALL STEEL NOT ENCASED IN CONCRETE, MASONRY, OR FIREPROOFING SHALL BE SHOP PRIMED AND PAINTED PER SPECIFICATIONS, EXCEPT FOR TOP FLANGE OF BEAMS SUPPORTING METAL DECK. ANY ABRASIONS OR UNPAINTED AREAS SHALL BE TOUCHED UP AFTER ERECTION.

5. ALL STRUCTURAL STEEL AND MISCELLANEOUS METALS EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION UNLESS NOTED OTHERWISE ON ARCHITECTURAL DRAWINGS.

6. WELDING SHALL CONFORM TO LATEST EDITION OF AWS D1.1/D1.1M, AS AMENDED IN CBC SECTION 2204A.1.

    A. WELDING PROCESS SHALL BE ELECTRIC ARC USING E70XX ELECTRODES. SUBMERGED ARC PROCESS (SAW) WITH AUTOMATIC WELDING MAY BE USED AS AN ALTERNATIVE.
    B. WELDERS SHALL BE CERTIFIED TO CONFORM WITH AWS STANDARDS AND APPROVED BY THE GOVERNING CODE AUTHORITY.
    C. SHOP WELDING, INCLUDING ULTRASONIC TESTING OF FULL PENETRATION GROOVE WELDS, SHALL BE PERFORMED ON THE PREMISES OF AN APPROVED FABRICATOR.
    D. MINIMUM FILLET WELD SIZE SHALL CONFORM TO AISC SPECIFICATION TABLE J2.4. WELD LENGTHS NOTED ON DRAWINGS ARE THE NET EFFECTIVE LENGTHS REQUIRED.
    E. FIELD WELD SYMBOLS NOTED ON THE DRAWINGS SHOW ENGINEERING INTENT, BUT NO ATTEMPT HAS BEEN MADE TO CLASSIFY ALL WELDS. AT FABRICATOR'S OPTION, ANY WELD INDICATED AS A FIELD WELD MAY BE SHOP WELDED AND ANY WELD INDICATED AS A SHOP WELD MAY BE FIELD WELDED.

7. WELDS SHALL BE PREQUALIFIED PER AWS D1.1. NON-PREQUALIFIED WELDED JOINTS SHALL BE QUALIFIED BY TEST PER AWS D1.1.

8. SUBMIT TO ARCHITECT (STRUCTURAL ENGINEER) FOR REVIEW A WRITTEN WELDING PROCEDURE SPECIFICATION (WPS) FOR ALL WELDS USED ON PROJECT PRIOR TO FABRICATION. FOR WELDS NOT PREQUALIFIED, THE SUPPORTING PROCEDURE QUALIFICATION RECORD (PQR) SHALL ALSO BE SUBMITTED WITH THE WPS. WPS SHALL BE IN ACCORDANCE TO AWS D1.1, SECTION 4.6 AND SHALL INCLUDE THE FOLLOWING INFORMATION FOR EACH WELD TYPE AND POSITION:

    A. SKETCH OF JOINT DESCRIBING GEOMETRY AND APPLICABLE DIMENSIONS, WELD TYPE AND SIZE, SEQUENCE OF WELD DEPOSITION, AND MAXIMUM LAYER THICKNESS AND BEAD WIDTHS. LAYER THICKNESS SHALL NOT EXCEED 1/4 INCH, AND BEAD WIDTH SHALL NOT EXCEED 5/8 INCH.
    B. BASE METAL TYPES AND THICKNESS.
    C. APPLICABLE WELD PROCESS (SMAW OR FCAW).
    D. FILLER METAL PER AWS STANDARD AND ELECTRODE SPECIFICATION AND CLASSIFICATION, AS WELL AS DETAILS OF SHIELDING MATERIAL.
    E. ELECTRICAL CHARACTERISTICS FOR WELD PROCESS USED SUCH AS TYPE OF CURRENT AND ACCEPTABLE RANGE OF CURRENT MEASURED IN AMPERAGE, VOLTAGE RANGE, AND ELECTRODE DIAMETER. FOR WELD FEED PROCESS, INDICATE MANUFACTURER RECOMMENDED WIRE SPEED, CONTACT DISTANCE, MELT OFF RATE AND DEPOSITION RATE.
    F. A COPY OF ELECTRODE MANUFACTURER'S TECHNICAL INFORMATION AND CERTIFICATE OF CONFORMANCE.

9. TESTING LABORATORY WILL VERIFY COMPLIANCE WITH ACCEPTED WPS AND WILL PROMPTLY NOTIFY ARCHITECT (STRUCTURAL ENGINEER) IF DEVIATIONS ARE FOUND.

10. ELECTRODE DIAMETER SHALL NOT EXCEED PREQUALIFIED LIMITS SHOWN IN AWS D1.1 TABLE 3.7, AS APPLICABLE. FOR FCAW PROCESS, MAXIMUM ELECTRODE SIZE SHALL NOT EXCEED 1/8 INCH.

CAST-IN-PLACE CONCRETE (CONTINUED)

9. CONCRETE MIX PROPORTIONING SHALL BE SIGNED AND SEALED BY A PROFESSIONAL CIVIL OR STRUCTURAL ENGINEER LICENSED IN THE STATE OF CALIFORNIA AND SHALL BE SUBMITTED TO THE ARCHITECT (STRUCTURAL ENGINEER) FOR REVIEW AND APPROVAL.

    A. STRENGTH: CONCRETE MIX PROPORTIONING SHALL BE BASED ON FIELD EXPERIENCE AND/OR TRIAL MIXTURES AS STIPULATED IN ACI 318, ARTICLE 26.4.3 SUBMIT CONCRETE MIX PROPORTIONING DATA, INCLUDING HISTORICAL STRENGTH RECORDS AND/OR RESULTS OF TRIAL MIXTURES, FOR EACH TYPE AND COMPRESSIVE STRENGTH OF CONCRETE.
    B. THE DESIGN CONCRETE MIX PROPORTION SHALL SPECIFY AGGREGATES THAT PRODUCE A CONCRETE MODULUS OF ELASTICITY NOT LESS THAN THAT SPECIFIED IN THE PROJECT PLANS AND SPECIFICATIONS. THE MODULUS OF ELASTICITY OF PRODUCTION CONCRETE DELIVERED TO THE JOBSITE SHALL BE CONSISTENT WITH THE MODULUS OF ELASTICITY OF THE DESIGN MIX PROPORTION FOR ESTABLISHING THE CONCRETE f'c AND MOE USED IN THE BUILDING DESIGN.

10. CONCRETE MIXING SHALL CONFORM TO ASTM C94.

11. PRIOR TO PLACING CONCRETE, REINFORCING BARS (INCLUDING WELDED WIRE REINFORCEMENT), EMBEDDED PLATES, ANCHOR BOLTS, AND OTHER CONCRETE EMBEDMENTS SHALL BE WELL SECURED IN POSITION.

12. CONCRETE PLACEMENT SHALL CONFORM TO ACI 304 AND CONTRACT DOCUMENTS. INTENTIONALLY ROUGHEN ALL PREVIOUSLY HARDENED CONCRETE SURFACES TO A FULL AMPLITUDE OF 1/4-INCH AGAINST WHICH FRESH CONCRETE IS PLACE.

13. FORMS SHALL BE CONSTRUCTED TO PROVIDE CAMBER AS SPECIFIED ON THE DRAWINGS. CONCRETE SLAB THICKNESS SHALL BE MAINTAINED.

14. FORM EXPOSED CORNERS OF COLUMNS, BEAMS AND WALLS WITH A 3/4-INCH CHAMFER, UNLESS NOTED OTHERWISE ON ARCHITECTURAL DRAWINGS.

15. CONCRETE SHALL BE MAINTAINED ABOVE 50 DEGREES FAHRENHEIT AND IN A MOIST CONDITION FOR A MINIMUM OF 7 DAYS AFTER PLACEMENT UNLESS OTHERWISE ACCEPTED BY ARCHITECT (STRUCTURAL ENGINEER).

REINFORCING STEEL

1. REINFORCING STEEL SHALL BE PLACED IN ACCORDANCE TO AMERICAN CONCRETE INSTITUTE ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" AND CONCRETE REINFORCING STEEL INSTITUTE (CRSI) "MANUAL OF STANDARD PRACTICE".

2. REINFORCING STEEL SHALL CONFORM TO ASTM A615/A615M, GRADE 60, UNLESS NOTED OTHERWISE. BARS TO BE WELDED SHALL CONFORM TO LOW ALLOY ASTM A706/A706M, GRADE 60.

3. PREPARE REINFORCING STEEL SHOP DRAWINGS IN ACCORDANCE TO ACI 315, PART B. SHOP DRAWINGS MAY BE PREPARED MANUALLY OR BY COMPUTER. PLACING DRAWINGS SHALL BE PREPARED TO THE SAME STANDARD AS CONTRACT DRAWINGS. SHOW REINFORCING PLACEMENT, SPLICE LOCATIONS, REINFORCING LENGTHS, DETAILS, ELEVATIONS, BEND DETAILS, ETC. SUBMIT TO ARCHITECT (STRUCTURAL ENGINEER) FOR REVIEW PRIOR TO FABRICATION. PROMPTLY NOTIFY ARCHITECT (STRUCTURAL ENGINEER) PRIOR TO DEVELOPING REINFORCING STEEL SHOP DRAWINGS IF INSUFFICIENT CLEAR DISTANCES BETWEEN REINFORCING STEEL OR OTHER CONGESTION IS ENCOUNTERED. DEVIATIONS FROM THE CONTRACT DOCUMENTS SHALL BE CLEARLY IDENTIFIED ON THE SHOP DRAWINGS. IF SUBMITTAL IS PARTIAL, CLEARLY INDICATE ITEMS EXCLUDED FROM SUBMITTAL. SHOP DRAWINGS WILL BE REJECTED IF NOT PREPARED TO THE STANDARDS STATED ABOVE.

4. REINFORCING STEEL SHALL BE SPLICED AS SHOWN ON THE DRAWINGS. IF NOT SHOWN, LOCATE SPLICES IN AREAS OF MINIMUM STRESS. LAP (SPLICE) LENGTHS ARE AS INDICATED ON THE DRAWINGS.

5. MINIMUM CLEARANCES BETWEEN PARALLEL REINFORCING STEEL INCLUDING SPLICED BARS SHALL BE ONE INCH, ONE BAR DIAMETER, OR 4/3 TIMES THE MAXIMUM SIZE AGGREGATE, WHICHEVER IS GREATER. PROVIDE 1 1/2 INCHES OR 1 1/2 BAR DIAMETERS, WHICHEVER IS GREATER, AT COLUMNS ONLY. FOR BUNDLED BARS, MINIMUM CLEAR DISTANCES BETWEEN UNITS OF BUNDLED BARS SHALL BE SAME AS SINGLE BARS EXCEPT BAR DIAMETER IS DERIVED FROM EQUIVALENT TOTAL AREA OF BUNDLE.

6. PROVIDE THE FOLLOWING CONCRETE COVERAGE FOR REINFORCING STEEL PLACED IN CAST-IN-PLACE CONCRETE:

    A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH ....3"
    B. CONCRETE EXPOSED TO EARTH OR WEATHER:
    NO. 6 THROUGH NO. 18 BARS ....2"
    NO. 5 BARS, W31 OR D31 WIRE, AND SMALLER ....1-1/2"
    C. CONCRETE NOT EXPOSED WEATHER OR IN CONTACT WITH GROUND:
    SLAB, WALLS, JOISTS:
    NO. 14 AND NO. 18 BARS ....1-1/2"
    NO. 11 BARS AND SMALLER (*) ....1"
    BEAMS AND COLUMNS
    PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS ....1-1/2"
    D. SLAB-ON-GRADE ....MID-HEIGHT OF SLAB

    (*) CONCRETE COVERAGE ADEQUATE FOR FIRE-RESISTIVE PERIOD OF 2 HOURS.

7. USE PLASTIC OR PLASTIC COATED SPACERS AND CHAIRS IF RESTING ON EXPOSED CONCRETE SURFACES.

8. REINFORCING STEEL BENDS SHALL BE MADE COLD. RE-BENDING OF PREVIOUSLY BENT REINFORCING IS NOT PERMITTED.

9. ALL REINFORCING STEEL, INCLUDING WELDED WIRE REINFORCING, SHALL BE SECURELY HELD IN PLACE WHILE PLACING CONCRETE. IF REQUIRED, ADDITIONAL BARS, CONCRETE BLOCKS, CHAIRS, BOLSTERS, ETC. SHALL BE PROVIDED BY THE CONTRACTOR TO FURNISH SUPPORT FOR ALL REINFORCING. HOOKING AND WALKING-IN IS NOT PERMITTED.

10. ALL REINFORCING STEEL SHALL BE MARKED SO THEIR IDENTIFICATION CAN BE MADE WHEN FINAL INSPECTION IS CONDUCTED.

CONCRETE MASONRY UNITS

1. CONCRETE MASONRY UNITS (CMU) SHALL BE MEDIUM WEIGHT HOLLOW LOAD BEARING UNITS CONFORMING TO ASTM C90. NORMAL WEIGHT OR LIGHTWEIGHT UNITS MAY BE USED IF APPROVED BY THE ARCHITECT (STRUCTURAL ENGINEER) AND SUBMITTED AS A CCD-A FOR DSA REVIEW AND APPROVAL. USE OPEN END UNITS AT VERTICAL REINFORCING AND BOND BEAM UNITS AT HORIZONTAL REINFORCING.

2. SPECIFIED COMPRESSIVE STRENGTH (f'm) OF COMPLETED CONCRETE MASONRY UNITS IS 2000 PSI UNLESS NOTED OTHERWISE. COMPLIANCE WITH SPECIFIED COMPRESSIVE STRENGTH SHALL BE BY THE UNIT STRENGTH METHOD OR BY THE PRISM TEST METHOD IN ACCORDANCE TO CBC SECTION 2105A.3.

3. MORTAR MIX SHALL CONFORM TO THE REQUIREMENTS OF ASTM C270 FOR TYPE S MORTAR. MORTAR SAND SHALL BE FREE OF INJURIOUS AMOUNTS OF DELETERIOUS SUBSTANCES AND ORGANIC IMPURITIES AND CONFORM TO ASTM C144.

4. GROUT SHALL CONFORM TO THE REQUIREMENTS ASTM C476 FOR COARSE GROUT. GROUT SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AT 28 DAYS. AGGREGATES FOR COARSE GROUT SHALL CONFORM TO ASTM C404.

5. CEMENT SHALL BE LOW ALKALI CONFORMING TO ASTM C150, TYPE I OR TYPE II. USE OF MASONRY CEMENT IS PROHIBITED.

6. WATER MUST BE CLEAN AND POTABLE AND FREE OF DELETERIOUS AMOUNTS OF OILS, ACIDS, ALKALIES, ORGANIC MATERIALS, AND SOLUBLE SALTS SUCH AS POTASSIUM AND SODIUM SULFATES.

7. CLEANOUTS SHALL BE PROVIDED FOR ALL GROUT POUR HEIGHTS OVER FOUR FEET. WHERE REQUIRED, CLEANOUTS SHALL BE PROVIDED IN THE BOTTOM COURSE AT EVERY VERTICAL REINFORCING BUT SHALL NOT BE SPACED GREATER THAN 32 INCHES ON CENTER FOR SOLID GROUTED MASONRY. CLEANOUTS SHALL BE SEALED AFTER INSPECTION AND BEFORE GROUTING. WHERE HIGH-LIFT GROUTING IS USED, REFER TO DSA IR 21-2.13 FOR ADDITIONAL REQUIREMENTS FOR CLEANOUTS, RECONSOLIDATION, BLOWOUTS, ETC.

8. GROUT POUR HEIGHT SHALL NOT EXCEED THAT SHOWN IN TMS 402-13 TABLE 3.2.1 GROUT SHALL BE PLACED IN A CONTINUOUS POUR IN GROUT LIFTS NOT EXCEEDING FOUR FEET. BETWEEN GROUT POURS, A HORIZONTAL CONSTRUCTION JOINT SHALL BE FORMED BY STOPPING GROUT POUR 1-1/2 INCHES BELOW TOP OF MORTAR JOINT. ADHERE TO REQUIREMENTS OF DSA IR 21-2.13 FOR GROUT POURS EXCEEDING FOUR FEET (HIGH-LIFT GROUTING).

GENERAL

1. ALL WORK SHALL CONFORM TO THE STANDARDS OF THE 2025 CALIFORNIA BUILDING CODE, AS AMENDED BY THE DIVISION OF THE STATE ARCHITECT – STRUCTURAL SAFETY, AND THOSE CODES AND STANDARDS LISTED IN THE CONTRACT DOCUMENTS.

2. THE PROJECT MANUAL FORMS A PART OF THESE GENERAL NOTES. CODES, STANDARDS, AND SPECIFICATIONS, INCLUDING ADDENDA AND SUPPLEMENTS, REFERENCED IN THE CONTRACT DOCUMENTS SHALL BE THE LATEST APPROVED ISSUE, UNLESS SPECIFICALLY NOTED.

3. NOTES AND DETAILS ON DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. IF CONFLICT OCCURS WITHIN THE CONTRACT DRAWINGS AND/OR BETWEEN THAT AND THE PROJECT MANUAL, IMMEDIATELY NOTIFY ARCHITECT (STRUCTURAL ENGINEER) FOR RESOLUTION. FOR BIDDING PURPOSES, ASSUME THE MORE STRINGENT APPLIES. DIMENSIONS TAKE PRECEDENCE OVER SCALED DRAWINGS.

4. CODE LEVEL WIND DESIGN DATA

BASIC WIND SPEED	= 95 MPH
RISK CATEGORY	= II

5. CODE LEVEL EARTHQUAKE DESIGN DATA

SITE COORDINATES	= 34.093589 °N, 118.020629 °W
MAPPED SPECTRAL RESPONSE ACCELERATION, S_S	= 2.07
MAPPED SPECTRAL RESPONSE ACCELERATION, S_1	= 0.70
SITE CLASS	= DEFAULT (PER ASCE 7-22, SECTION 11.4.2.1)
DESIGN SPECTRAL RESPONSE COEFFICIENT, S_{SD}	= 1.49
DESIGN SPECTRAL RESPONSE COEFFICIENT, S_{D1}	= 1.06
SEISMIC DESIGN CATEGORY	= D

6. GOVERNING CODE AUTHORITY: DIVISION OF THE STATE ARCHITECT (DSA) - STRUCTURAL SAFETY.

7. CONTRACT DOCUMENTS INDICATE INFORMATION SUFFICIENT TO CONVEY DESIGN INTENT. REVIEW CONTRACT DOCUMENTS AND VERIFY FIELD AND EXISTING CONDITIONS. PROMPTLY NOTIFY ARCHITECT (STRUCTURAL ENGINEER), PRIOR TO PROCEEDING WITH WORK, IF FURTHER CLARIFICATION OF DESIGN INTENT IS NEEDED.

8. VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION AND NOTIFY THE ARCHITECT (STRUCTURAL ENGINEER) OF ANY DISCREPANCIES.

9. PERFORM STRUCTURAL RELATED WORK AND DEVELOP SHOP DRAWINGS CONSIDERING CONTRACT DOCUMENTS IN THEIR ENTIRETY. CONDITIONS NOT SPECIFICALLY DETAILED SHALL BE CONSTRUCTED AS DETAILED FOR SIMILAR WORK.

10. CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE MEANS AND METHODS OF CONSTRUCTION. PROVIDE ALL NECESSARY MEASURES TO PROTECT THE STRUCTURE DURING CONSTRUCTION. COMPLY WITH THE STATE OF CALIFORNIA, DIVISION OF OCCUPATIONAL SAFETY AND HEALTH REGULATIONS. CONSTRUCTION MATERIALS, IF PLACED ON FRAMED FLOORS AND ROOFS, SHALL BE SPREAD OUT SUCH THAT THE DESIGN LIVE LOAD PER SQUARE FOOT IS NOT EXCEEDED. PROVIDE ADEQUATE SHORING IF OVERLOAD IS ANTICIPATED OR WHERE STRUCTURAL ELEMENTS HAVE NOT ATTAINED DESIGN STRENGTH. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT CONSTITUTE ACCEPTANCE OF CONSTRUCTION MEANS AND METHODS.

11. SUBMIT SHOP DRAWINGS FOR REVIEW BEFORE FABRICATION. CONTRACTOR SHALL REVIEW FOR COMPLETENESS AND COMPLIANCE WITH CONTRACT DOCUMENTS PRIOR TO SUBMISSION TO ARCHITECT (STRUCTURAL ENGINEER). ARCHITECT'S (STRUCTURAL ENGINEER'S) REVIEW IS FOR GENERAL CONFORMANCE WITH DESIGN INTENT AND DOES NOT CONSTITUTE AN AUTHORIZATION TO DEVIATE FROM TERMS AND CONDITIONS OF CONTRACT. WHEN INDICATED, THE SUBMITTAL SHALL BE SIGNED AND SEALED BY A PROFESSIONAL CIVIL OR STRUCTURAL ENGINEER LICENSED IN THE STATE OF CALIFORNIA. MAINTAIN AT SITE A COPY OF REVIEWED AND ACCEPTED SUBMITTALS.

12. MODIFICATIONS AND SUBSTITUTIONS MUST BE ACCEPTED IN WRITING BY ARCHITECT (STRUCTURAL ENGINEER). NO MODIFICATION OR SUBSTITUTION WILL BE ACCEPTED VIA SHOP DRAWING REVIEW. MANUFACTURED MATERIALS SHALL BE APPROVED BY THE GOVERNING CODE AUTHORITY PRIOR TO THEIR USE. ADHERE TO ALL CONDITIONS OF THOSE APPROVALS.

13. "TYPICAL DETAILS" ARE APPLICABLE THROUGHOUT CONSTRUCTION DOCUMENTS AND MAY NOT BE SPECIFICALLY REFERENCED THEREIN. CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING THESE TYPICAL DETAILS AND UNDERSTANDING EXTENT OF THEIR APPLICATION PRIOR TO PERFORMING WORK.

14. UNLESS SPECIFICALLY SHOWN ON THE PLANS NO STRUCTURAL MEMBER SHALL BE CUT, DRILLED OR NOTCHED WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER.

FOUNDATIONS

1. FOUNDATION DESIGN VALUES (2025 CBC TABLE 1806A.2):
    BEARING CAPACITY ....1,500 PSF*
    LATERAL BEARING PRESSURE..100 PCF
    COHESION LATERAL RESISTANCE...130 PSF
    *ONE-THIRD INCREASE FOR SHORT TERM LOADING ALLOWED PER CBC.

2. BOTTOM OF FOOTINGS SHALL BE A MINIMUM OF 18 INCHES BELOW LOWESTADJACENT FLOOR OR GRADE AND 18 INCHES INTO RECOMMENDED BEARING MATERIAL (NATIVE EARTH MATERIALS).

3. FOUNDATIONS MAY BE CAST DIRECTLY AGAINST EXCAVATIONS PROVIDED EXCAVATION IS CAPABLE OF MAINTAINING A VERTICAL CUT WITHOUT SLOUGHING.

CAST-IN-PLACE CONCRETE

1. ALL CONCRETE WORK SHALL CONFORM TO THE STANDARDS OF THE AMERICAN CONCRETE INSTITUTE, ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE" AND ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", WITH MODIFICATIONS AS NOTED IN THE CONTRACT DOCUMENTS.

    A. CONCRETE SHALL ATTAIN THE FOLLOWING MINIMUM COMPRESSIVE STRENGTH AT 28-DAY (f'c), UNLESS NOTED OTHERWISE:

    ALL CONCRETE 4,000 PSI NORMAL WEIGHT

2. UNLESS NOTED OTHERWISE HEREIN, CONCRETE IS ASSIGNED TO EXPOSURE CLASSES F0, S0, W0, AND C0, AS DEFINED IN TABLE 19.3.1.1 OF ACI 318-14.

    A. CONCRETE IN CONTACT WITH SITE SOIL SHALL BE ASSIGNED TO EXPOSURE CLASS S0.

3. PORTLAND CEMENT SHALL CONFORM TO ASTM C150, TYPE II.

4. AGGREGATES FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C33. NORMAL WEIGHT CONCRETE SHALL HAVE A MINIMUM DRY UNIT WEIGHT OF 145 PCF.

5. MAXIMUM AGGREGATE SIZE SHALL BE 1-1/2 INCHES FOR FOUNDATIONS AND 1 INCH ELSEWHERE, BUT NO LARGER THAN (A) 1/5 THE NARROWEST DIMENSION BETWEEN SIDES OF FORMS, (B) 1/3 THE DEPTH OF SLABS, OR (C) 3/4 THE MINIMUM CLEAR SPACING BETWEEN INDIVIDUAL REINFORCING BARS OR WIRES, BUNDLES OF BARS, INDIVDUAL TENDONS, BUNDLED TENDONS, OR DUCTS. SMALLER AGGREGATE SIZES MAY BE ALLOWED WITH THE APPROVAL OF THE ARCHITECT (STRUCTURAL ENGINEER).

6. MAXIMUM SLUMP SHALL BE 5 INCHES TYPICALLY AND 4 INCHES IN FLATWORK, UNLESS A HIGH-RANGE WATER REDUCING ADMIXTURE (SUPERPLASTICIZER) IS USED IN THE CONCRETE MIX PROPORTIONS.

7. CONCRETE SHRINKAGE SHALL BE LIMITED TO 0.05 PERCENT AT 35 DAYS AS DETERMINED BY ASTM C157. TEST SPECIMENS SHALL BE MOIST CURED IN LIME SATURATED WATER FOR 28 DAYS AND AIR STORED FOR 7 DAYS.

8. WATER CEMENT RATIO SHALL NOT EXCEED 0.45 FOR ALL FLATWORK THAT RECEIVES A MOISTURE SENSITIVE ADHESIVE TO AFFIX FLOOR FINISHES AND 0.50 ELSEWHERE. EXCEPTION: FOR CONCRETE ON METAL DECK, A WATER CEMENT RATIO OF 0.50 MAY BE USED FOR CONCRETE PLACED ON VENTED METAL DECKS.

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	DSA SUBMITTAL	06/12/2026
	DSA BACKCHECK	10/19/2026

KEYNOTES

NOTES

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PROJECT:
EMUSD ARROYO HS - CAMPUS WIDE ELECTRICAL UPGRADE

SHEET NAME:
GENERAL NOTES

BID SET

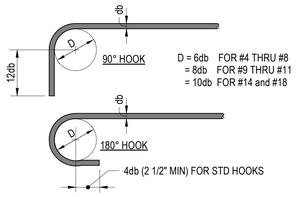
100% CONSTRUCTION DOCUMENTS

DATE: 2026.10.19 | CLIENT PROJ NO: 3361-008-103

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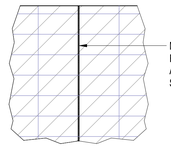
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HOOKS FOR BARS OTHER THAN TIES, STIRRUPS AND HOOPS

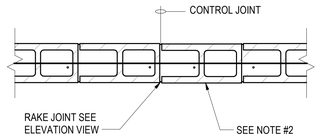
TYPICAL REINFORCING STEEL STANDARD HOOK DETAILS 7

SCALE: NTS



ELEVATION

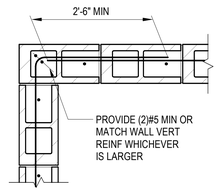
NOTES:
1. LOCATE CONTROL JOINTS PER ARCH DRAWINGS. (25'-0" MAX)
2. ALL HORIZ REINF TO BE CONT THROUGH JOINTS



PLAN VIEW

TYPICAL VERTICAL CONTROL JOINT IN MASONRY WALL DETAIL 6

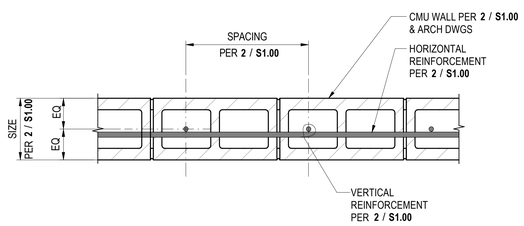
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CORNER (SINGLE CURTAIN)

TYPICAL MASONRY WALL AT INTERSECTIONS DETAIL 5

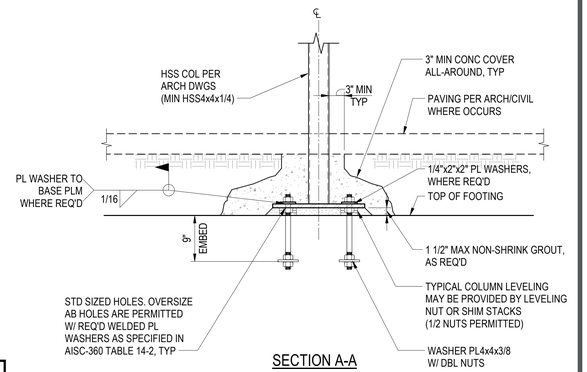
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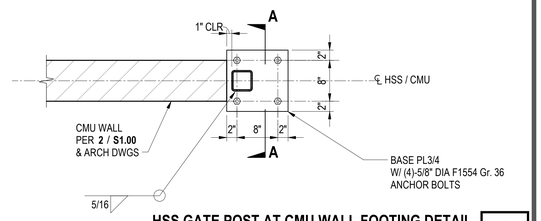
8" CMU WALL - REBAR CENTERED

TYPICAL CMU WALL REINFORCING DETAIL 4

SCALE: NTS

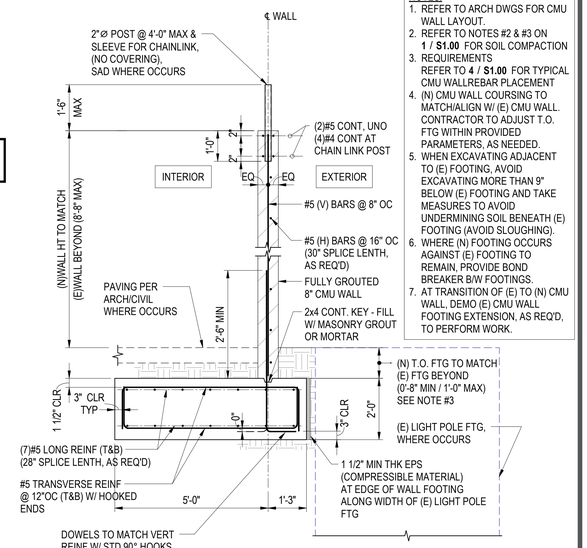


SECTION A-A



HSS GATE POST AT CMU WALL FOOTING DETAIL 3

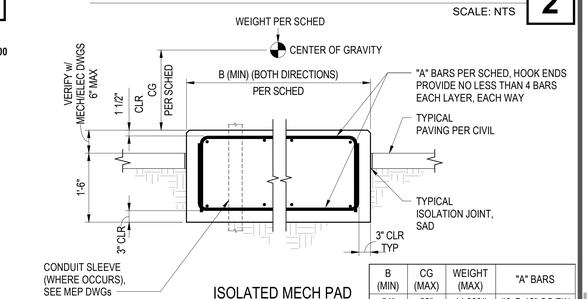
SCALE: NTS



NOTES:
1. REFER TO ARCH DWGS FOR CMU WALL LAYOUT.
2. REFER TO NOTES #2 & #3 ON **1 / S1.00** FOR SOIL COMPACTION
3. REQUIREMENTS REFER TO **4 / S1.00** FOR TYPICAL CMU WALLREBAR PLACEMENT
4. (N) CMU WALL COURSING TO MATCH/ALIGN W/ (E) CMU WALL. CONTRACTOR TO ADJUST T.O. FTG WITHIN PROVIDED PARAMETERS, AS NEEDED.
5. WHEN EXCAVATING ADJACENT TO (E) FOOTING, AVOID EXCAVATING MORE THAN 9" BELOW (E) FOOTING AND TAKE MEASURES TO AVOID UNDERMINING SOIL BENEATH (E) FOOTING (AVOID SLOUGHING).
6. WHERE (N) FOOTING OCCURS AGAINST (E) FOOTING TO REMAIN, PROVIDE BOND BREAKER B/W FOOTINGS.
7. AT TRANSITION OF (E) TO (N) CMU WALL, DEMO (E) CMU WALL FOOTING EXTENSION, AS REQ'D, TO PERFORM WORK.

TYPICAL CMU FREESTANDING WALL 2

SCALE: NTS



ISOLATED MECH PAD

B (MIN)	CG (MAX)	WEIGHT (MAX)	"A" BARS
54"	82"	14,000#	#6 @ 12" OC EW

NOTES:
1. PROVIDE 8" MIN EDGE DISTANCE FOR MECH /ELEC ANCHORAGE.
2. REMOVE AND RECOMPACT BEARING SOIL TO 90% PER ASTM D-1557, 12" MIN BELOW AND 18" TYP ALL AROUND LATERALLY.
3. SCARIFY AND COMPACT SUBGRADE (BENEATH) COMPACTED FILL) TO 90% PER ASTM D-1557.
4. WHERE CONCRETE PAD OVERLAPS W/ WALL FOOTING, PROVIDE VERTICAL DOWELS (TO MATCH PAD REINF) W/ STANDARD HOOKED ENDS & SET PAD REINF, WHERE REQ'D, PRIOR TO FOOTING POUR.

TYPICAL MEP CONCRETE PAD 1

SCALE: NTS

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	DSA SUBMITTAL	06/12/2026
	DSA BACKCHECK	10/19/2026

KEYNOTES

NOTES

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PROJECT:

EMUSD ARROYO HS - CAMPUS WIDE ELECTRICAL UPGRADE

SHEET NAME:

DETAILS

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ELECTRICAL LEGEND

NOTE: NOT ALL SYMBOLS OR ABBREVIATIONS ARE APPLICABLE TO THIS PROJECT. REFER TO DETAILS AND NOTES FOR MOUNTING HEIGHTS.

LIGHTING

SYMBOL	DESCRIPTION
	RECESSED 2X4 LUMINAIRE
	SURFACE MOUNTED 2X4 LUMINAIRE
	RECESSED 1X4 LUMINAIRE
	SURFACE MOUNTED 1X4 LUMINAIRE
	RECESSED 2X2 LUMINAIRE
	SURFACE MOUNTED 2X2 LUMINAIRE
	SHADING OF ANY LUMINAIRE INDICATES CONNECTION TO ALTERNATE POWER SOURCE (EMERGENCY, UPS, STANDBY, ETC.) PER CIRCUITING INDICATED
	SUSPENDED LINEAR LUMINAIRE
	WALL MOUNTED LINEAR LUMINAIRE
	SUSPENDED PENDANT LUMINAIRE
	RECESSED DOWNLIGHT, CEILING MOUNTED
	SURFACE DOWNLIGHT, CEILING MOUNTED
WW DIRECTION→	RECESSED WALLWASH DOWNLIGHT, CEILING MOUNTED
WW DIRECTION→	SURFACE WALLWASH DOWNLIGHT, CEILING MOUNTED
	RECESSED LINEAR WALLWASH
	SURFACE LINEAR WALLWASH
	RECESSED WALL MOUNTED LUMINAIRE
	TRACK LIGHTING WITH HEADS AS INDICATED.
	RECESSED CEILING ADJUSTABLE POINT SOURCE
	SURFACE CEILING ADJUSTABLE POINT SOURCE
	WALL MOUNTED LUMINAIRE
	WALL MOUNTED DIRECTIONAL
	STRIPLIGHT - POWER FEED SECTION, FEED THROUGH SECTION.
	WALL MOUNTED STRIPLIGHT
	UNDERCABINET STRIPLIGHT
	CONTINUOUS LINEAR
	BATTERY POWER EMERGENCY UNIT EQUIPMENT (SEE LUMINAIRE SCHEDULE FOR QUANTITY OF HEADS) - WALL, CEILING MOUNTED.
	ILLUMINATED EXIT SIGN, SHADED QUADRANT INDICATES FACES, ARROWS AS SHOWN
	BOLLARD
	POLE MOUNTED LUMINAIRE- SINGLE OR DUAL HEAD
	INDICATES ROTATED OPTICS
	POST TOP MOUNTED LUMINAIRE
	IN-GRADE POINT SOURCE
	GARAGE LIGHTING LUMINAIRE WITH CUTOFF LOUVERS
HA 3c HA 3A	LUMINAIRE MARKING CONVENTION LEGEND: HA = LUMINAIRE TYPE IDENTIFICATION; SEE LUMINAIRE SCHEDULE. 3c = CIRCUIT NUMBER VIA LOCAL SWITCH (LOWERCASE LETTER) THAT SERVES THE LUMINAIRE. 3A = CIRCUIT NUMBER/UPPERCASE LETTER COMBINATION INDICATES LOW VOLTAGE RELAY OR LIGHTING CONTACTOR THAT SERVES THE LUMINAIRE

WIRING

SYMBOL	DESCRIPTION
	WIRING CONCEALED IN FLOOR OR UNDER GRADE OR ROUTED IN CEILING SPACE OF FLOOR BELOW.
——T——	TELEPHONE SYSTEM CONDUIT
——MV——	MEDIUM VOLTAGE CONDUIT
	WHEN SHOWN, STROKES INDICATE QUANTITY OF CONDUCTORS. NOTE: WIRING STROKES FOR 20A BRANCH CIRCUITS ARE NOT SHOWN ON DRAWINGS. CONTRACTOR SHALL USE INFORMATION IN PANEL AND BRANCH CIRCUIT SCHEDULES TO PROVIDE REQUIRED CIRCUITING.
	GROUND
	HOT
	NEUTRAL
L1A-1,3	HOME RUN WIRING TO INDICATED DESTINATION, 3/4"C. MIN. OR AS OTHERWISE NOTED. CONTRACTOR SHALL USE CIRCUIT SIZES NOTED IN RESPECTIVE SCHEDULES AND INFORMATION IN THE FEEDER AND BRANCH CIRCUIT SCHEDULES.
	CONDUIT OR WIRE BREAK SYMBOL
	CONDUIT RUN TURNED UP THROUGH FLOOR OR CEILING. CORE & FIREPROOF AS REQUIRED.
	CONDUIT RUN TURNED DOWN THROUGH FLOOR OR CEILING. CORE & FIREPROOF AS REQUIRED.
	CONDUIT STUBBED OUT AT LOCATION SHOWN. PROVIDE INSULATED BUSHING & PULLROPE.
	TELEPHONE/DATA SLEEVE THROUGH WALL, ABOVE CEILING. EXTEND TO ACCESSIBLE TILE CLG. BOTH SIDES. TERMINATE WITH BUSHINGS. (1) 1.25" CO UON. COORDINATE LOCATIONS WITH CABLE INSTALLER(S) PRIOR TO ROUGH-IN.
	JUNCTION BOXES, WALL, CEILING AND FLUSH FLOOR MOUNTED. 4" SQ. BOX MIN., LARGER IF REQUIRED
	WIRING EXTENSION POINT - CONDUIT TO MC CABLE OR MANUFACTURED WIRING SYSTEM J-BOX ABOVE ACCESSIBLE CEILINGS AREAS, OR EXTEND CONDUIT & WIRE IN EXPOSED OR "HARD" CEILING AREAS. SHADED= ON ALT. POWER SOURCE (EMERG,UPS,ETC.)
PB	PULL BOX, MIN. SIZE PER NEC., UON.
	FLEXIBLE CONDUIT CONNECTION
	UNDERFLOOR RACEWAY WITH ACTIVATION BOXES
	LADDER STYLE CABLE TRAY, WIDTH AND RUNG SPACING AS SPECIFIED.
	BASKET STYLE CABLE TRAY. WIDTH AS SPECIFIED.

GENERAL SYMBOLS

SYMBOL	DESCRIPTION
(N)	NEW
(E)	EXISTING TO REMAIN
(D)	EXISTING TO BE REMOVED
(ER)	EXISTING TO BE RELOCATED
(RL)	NEW LOCATION OF RELOCATED ITEM
(F)	FUTURE
XX	KEYED NOTE REFERENCE
125.4	BRANCH CIRCUIT OR FEEDER TAG; REFER TO BRANCH CIRCUIT AND FEEDER SCHEDULE FOR WIRE AND CONDUIT SIZES & QUANTITY.
1 / E4.1	REFER TO DETAIL ON DRAWING INDICATED
2 / E4.1	ELEVATION TAG: REFER TO ELEVATION NUMBER ON DRAWING INDICATED
A / M-1	SECTION TAG: REFER TO SECTION NUMBER ON DRAWING INDICATED
K112	KITCHEN EQUIPMENT TAG, REFER TO KITCHEN EQUIPMENT SCHEDULE
CH 1	MECHANICAL EQUIPMENT IDENTIFICATION TAG
EQUIP NAME	EQUIPMENT BY OTHERS IDENTIFICATION TAG

DIAGRAMS

SYMBOL	DESCRIPTION
	TRANSFER SWITCH. ATS = AUTOMATIC. MTS = MANUAL TRANSFER
	AUTOMATIC TRANSFER SWITCH WITH MAINTENANCE BYPASS(BIATS)
	SWITCH
60AT 30A	BUSWAY STAB-IN TYPE CIRCUIT BREAKER OR FUSE DISCONNECT. SIZE AS NOTED.
	FIELD INSTALLED CONTROL CIRCUIT WIRING TO DESTINATION SHOWN, U.O.N.
	OVERLOADS
	NORMALLY CLOSED CONTACTOR OR RELAY CONTACTS
	NORMALLY OPEN CONTACTOR OR RELAY CONTACTS
	BUS DUCT
	BUS BAR
	BATTERY GENERAL
	RESISTOR
	CONNECTOR, FEMALE AND MALE RESPECTIVELY
	PIPE GROUND
C	CONTACTOR COIL
R	RELAY COIL
D	LIGHTNING SURGE ARRESTOR D = DISTRIBUTION CLASS I = INTERMEDIATE CLASS
SPD	SURGE PROTECTION DEVICE
	CURRENT TRANSFORMER
	POTENTIAL TRANSFORMER
	NORMALLY OPEN PUSH BUTTON
	NORMALLY CLOSED PUSH BUTTON
	FUSED VOLTAGE SENSE LEADS
PF	METER: POWER FACTOR
KWH	METER: KILOWATT HOUR
M M	UTILITY CO. APPROVED SOCKET WITH METER INSTALLED. SQUARE = REMOTE MOUNTED
DMU	DIGITAL METER UNIT. REFER TO SPECIFICATIONS.
STB	CURRENT TRANSFORMER SHORTING TERMINAL BLOCK.
	TERMINAL FOR FIELD CONNECT, SIZE & TYPE SUITABLE FOR CONDUCTOR INSTALLED.
	LED INDICATOR LIGHT, PUSH TO TEST, R=RED, G= GREEN, B= BLUE, Y= YELLOW, W= WHITE
	DELTA CONNECTION
	GROUNDED WYE CONNECTION
	CONNECTION TO GROUND
100AT 225AF	CIRCUIT BREAKER, WITH TRIP & FRAME AMPERE RATING
225AF 400AS	FUSED SWITCH, WITH FUSE AND SWITCH AMPERE RATING
	INDIVIDUALLY MOUNTED CIRCUIT BREAKER
52	CIRCUIT BREAKER, MEDIUM VOLTAGE, DRAWOUT
	DRAWOUT CIRCUIT BREAKER
GF	GROUND FAULT TRIP UNIT
GFA	GROUND FAULT ALARM ONLY
BA	BELL ALARM TRIP MODULE CONTACTS
ST	SHUNT TRIP UNIT, 120VAC OR VOLTAGE AS NOTED
MCM	MONITORING COMMUNICATION MODULE
AM	INTEGRAL AMMETER DISPLAY
K	KEY INTERLOCK
10	CAPACITOR, POWER FACTOR CORRECTION, SIZE IN KVAR
	FUSE, HOLDER & PULLER
	SOLENOID

POWER DEVICES

SYMBOL	DESCRIPTION
	SIMPLEX RECEPTACLE - WALL, CEILING, ON ALT.
	DUPLEX RECEPTACLE - WALL, CEILING, ON ALT.
	DOUBLE DUPLEX RECEPTACLE - WALL, CLG, ON ALT.
	SPECIAL PURPOSE RECEPTACLE -WALL, CEILING ON ALT. POWER; NEMA CONFIGURATION AS NOTED
"ON ALT."	SHADED RECEPTACLES NOTED "ON ALT." ABOVE ARE CONNECTED TO ALTERNATE POWER SOURCE (EMERG., STANDBY, UPS, ETC.) PER CIRCUITING INDICATED
AB AB	LETTER DESIGNATIONS ADJACENT TO RECEPTACLE: AB = ABOVE COUNTER BACKSPLASH. S.A.D. C = HALF OF ONE DUPLEX CONTROLLED BY ROOM OCCUPANCY SENSOR R = HALF OF ONE DUPLEX CONTROLLED BY TIMEBLOCK RELAY DC = ONE WHOLE DUPLEX CONTROLLED BY ROOM OCCUPANCY SENSOR DR = ONE WHOLE DUPLEX CONTROLLED BY TIMECLOCK RELAY GFI = DUPLEX RECEPTACLE W/ INTEGRAL GROUND FAULT CIRCUIT INTERRUPTER WP = WEATHERPROOF DUPLEX RECEPTACLE W/ IN-USE COVER AND INTEGRAL GFI
	DUPLEX RECEPTACLE - WALL - HALF SWITCHED
S	COMBINATION SWITCH/DUPLEX RECEPTACLE
+42"	RECEPTACLE TYPE SHOWN AT SPECIAL HEIGHT
J J	WALL, FLOOR MOUNTED ELECTRICAL CONNECTION TO ELECTRIFIED FURNITURE. PROVIDE 8 WIRES (4 HOTS, 1 DEDICATED NEUTRAL, 1 COMMON NEUTRAL, 1 IG) NEUTRALS TO BE #10 AWG. USE LIQUID-TIGHT FLEX.
	FLUSH FLOOR POKE THRU DEVICE - SIMPLEX, DUPLEX, DOUBLE DUBLEX
	FLUSH FLOOR BOX DEVICE - SIMPLEX, DUPLEX, DOUBLE DUPLEX
	PEDESTAL FLOOR DEVICE - SIMPLEX, DUPLEX, DOUBLE DUPLEX
	FLOOR POKE THRU PEDESTAL MOUNTED DEVICE - SIMPLEX, DUPLEX, DOUBLE DUPLEX RECEPTACLE
	POKE THRU UNIT WITH DOUBLE DUPLEX RECEPTACLE - FLUSH, PEDESTAL MOUNTED.
	COMBO POKE THRU UNIT WITH DUPLEX RECEPTACLE AND TELE\DATA OUTLET - FLUSH, PEDESTAL MOUNTED.
	MULTI-SERVICE FLOOR BOX CAST IN CONC. OR IN RAISED FLOOR - SEE ARCH DWGS; WITH RECEPTACLES & SIGNAL OUTLETS AS NOTED.
J	POKE THRU UNIT WITH JUNCTION BOX ABOVE FLOOR.
J	TELE/POWER POLE, POWER POLE
J	TWO-PIECE SURFACE METAL RACEWAY WITH RECEPTACLES AS NOTED, BACK LENGTH AS INDICATED ON THE DRAWINGS AND WITH ALL FITTINGS AS REQUIRED.
J	TWO OR THREE COMPARTMENT SURFACE METAL RACEWAY WITH RECEPTACLES AND OUTLETS AS INDICATED, LENGTH AS INDICATED ON THE DRAWINGS. PROVIDE ALL FITTINGS AS REQUIRED.

SIGNAL DEVICES

SYMBOL	DESCRIPTION
	FIRE RATED PLYWOOD BACKBOARD, SIZE AS INDICATED ON PLANS
	SIGNAL SYSTEM EQUIPMENT ENCLOSURES AS NOTED-SURFACE, RECESSED MOUNTED
	COMBO TELE/DATA OUTLET. PROVIDE 4" SQUARE J-BOX WITH 1-GANG MUD RUNG AND 1"C.O. TO ABOVE NEAREST ACCESSIBLE CEILING
W	TELEPHONE OUTLET - W = USE HIGHER MOUNTING HEIGHT PER MOUNTING HEIGHT DETAIL. ROUGH-IN BE SAME AS COMBO TELE/DATA OUTLET ABOVE.
	DATA OUTLET - WALL. ROUGH-IN TO BE SAME AS COMBO TELE/DATA OUTLET ABOVE.
B	BELL
	BUZZER
	CHIME
C C	SYSTEM CLOCK - WALL , CEILING
I M I	INTERCOM STATION - WALL, DESK. M = MASTER STATION
	PUSHBUTTON OR PUSHBUTTONS
	PUSHBUTTON OR PUSHBUTTONS PROVIDED WITH EQUIPMENT
	RF COAX CABLE OUTLET (TV, VCR, ETC.)
	COMBINATION RF COAX CABLE AND DATA OUTLET
T	FURNITURE DATA FEED - WALL. PROVIDE 4" SQUARE J-BOX WITH 2-GANG MUD RING AND 1.75"C.O. TO ABOVE NEAREST ACCESSIBLE CEILING.
T	FURNITURE FLOOR DATA FEED. PROVIDE 2"C.O. STUBBED THROUGH FLOOR.
	FLUSH FLOOR DEVICE - DEVICE TYPE PER SYMBOLS ABOVE
	PEDESTAL FLOOR DEVICE - DEVICE TYPE PER SYMBOLS ABOVE

SWITCHING CONTROLS

SYMBOL	DESCRIPTION
S^a	SINGLE POLE LINE VOLTAGE SWITCH (SUPERSCRIPT DENOTES SIMILARLY MARKED LUMINAIRES THAT ARE TO BE CONTROLLED TOGETHER)
$S_{\#\#}$	LINE VOLTAGE SWITCH. DESIGNATION ADJACENT TO SWITCH INDICATES TYPE AS FOLLOWS: 2 = TWO POLE SWITCH 3 = THREE WAY SWITCH 4 = FOUR WAY SWITCH K = KEY OPERATED SWITCH OS = COMBINATION SWITCH WITH OCCUPANCY SENSOR TS = TIMER SWITCH XP = EXPLOSION PROOF WP = WEATHERPROOF OR# = LIGHTING CONTROL OVERRIDE SWITCH NUMBER INDICATES ZONE CONTROLLED P = PILOT IS "ON" WHEN SWITCH IS "ON" PL = PILOT IS "ON" WHEN SWITCH IS "OFF" V = VARIABLE SPEED FAN CONTROL SWITCH, PROVIDED BY DIV. 23, INSTALLED BY DIV. 26; LOCATION ADJACENT TO LIGHT SWITCH INDICATES ZONE CONTROLLED. T = MOTOR-RATED THERMAL OVERLOAD SWITCH
$D_{\#\#}$	LINE VOLTAGE DIMMER SWITCH; DESIGNATION ADJACENT TO DIMMER SWITCH INDICATES TYPE AS FOLLOWS: OS = COMBINATION SWITCH WITH OCCUPANCY SENSOR
$\$_{\#\#}$ $Ð_{\#\#}$	LOW VOLTAGE SWITCH/DIMMER; DESIGNATION ADJACENT TO SWITCH INDICATES TYPE AS FOLLOWS: K = KEY OPERATED OS = INTEGRAL OCCUPANCY SENSOR T = TIMER
####	LOW VOLTAGE WALL DEVICE SYMBOLS; TYPE AND BUTTON QUANTITY SHOWN BELOW; SEE SEQUENCE OF OPERATIONS FOR ADDITIONAL REQUIREMENTS; SUPERSCRIPT REPRESENTS ZONE IF APPLICABLE: OSS = SWITCH WITH OCCUPANCY SENSOR OSD = DIMMER SWITCH WITH OCCUPANCY SENSOR 2BZ = 2-BUTTON ZONE CONTROLLER 3BZ = 3-BUTTON ZONE CONTROLLER 4BZ = 4-BUTTON ZONE CONTROLLER 8BZ = 8-BUTTON ZONE CONTROLLER 2BS = 2-BUTTON SCENE CONTROLLER 3BS = 3-BUTTON SCENE CONTROLLER 4BS = 4-BUTTON SCENE CONTROLLER 8BS = 8-BUTTON SCENE CONTROLLER TS = TOUCH SCREEN
PC	PHOTOCELL
TC	TIME CLOCK
OS	OCCUPANCY SENSOR; WALL MOUNTED
OS	OCCUPANCY SENSOR; CEILING MOUNTED U.O.N 360 DEGREE COVERAGE
OS	OCCUPANCY SENSOR; CEILING MOUNTED U.O.N 180 DEGREE COVERAGE
OS	OCCUPANCY SENSOR; CEILING MOUNTED U.O.N CORRIDOR/AISLE COVERAGE
RCL	LIGHTING SYSTEM ROOM CONTROLLER
RCR	LIGHTING SYSTEM RECEPTACLE CONTROLLER
EM	UL294 EMERGENCY LIGHTING RELAY
T T	THERMOSTAT - WALL, CEILING; PROVIDED BY DIV. 23, INSTALLED AND WIRED BY DIV. 26
EPO	EMERGENCY POWER OFF
LCP-#	LIGHTING CONTROL PANEL AND ASSOCIATED COMPONENTS; PROVIDE 120V OR 277V CONTROL POWER AS REQUIRED OR AS INDICATED
TX	REMOTE MOUNTED LINE TO LOW-VOLTAGE FUSED TRANSFORMER; CONCEAL FROM VIEW

DISTRIBUTION & EQUIPMENT

SYMBOL	DESCRIPTION
	BRANCH CIRCUIT PANELBOARDS, SURFACE AND RECESS MOUNTED
	MOTOR CONTROL CENTER WITH CODE CLEARANCES SHOWN
	TRANSFORMER WITH CODE CLEARANCES SHOWN
	EQUIPMENT OR TERMINAL ENCLOSURE AS NOTED, SURFACE AND RECESS MOUNTED
	TWO STACKED 120/208-VOLT PANELBOARDS
	SERVICE AND/OR DISTRIBUTION EQUIPMENT WITH CODE CONCRETE EQUIPMENT PAD SHOWN.
	CONNECTION TO MOTOR PROVIDED BY OTHERS
VFD	CONNECTION TO VARIABLE FREQUENCY DRIVE WITH INTEGRAL DISCONNECT
30A	DISCONNECT SWITCH, SIZE AS NOTED OR IF NOT SHOWN SIZE PER CONNECTED MOTOR SIZE AND MOTOR DISCONNECT SCHEDULE
F 30A	FUSED DISCONNECT SWITCH, SIZE AS NOTED. SIZE FUSE PER MANUFACTURER'S RECOMMENDATIONS
C 60AT	ENCLOSED CIRCUIT BREAKER DISCONNECT SWITCH, TRIP SIZE AS NOTED.
	DISCONNECT W/ MAGNETIC MOTOR STARTER (CONTROLLER) OR CONTACTOR. SIZE PER LOAD SERVED. NEMA SIZE #1 MINIMUM.
	MAGNETIC MOTOR STARTER (CONTROLLER) OR CONTACTOR. SIZE PER LOAD SERVED. NEMA SIZE #1 MINIMUM.
DM	DAMPER MOTOR CONNECTION
	BUSWAY RISER
	CONNECTION TO EQUIPMENT PROVIDED BY OTHERS. SHADED = ON ALT. POWER SOURCE NOTED
	CONNECTION TO EQUIPMENT WITH INTEGRAL DISCONNECT PROVIDED BY OTHERS. SHADED = ON ALTERNATE POWER SOURCE NOTED

BASIS OF DESIGN

1.1 ELECTRICAL BASIS OF DESIGN

A. THIS IS A PROJECT TO REPLACE THE EXISTING SCE MEDIUM VOLTAGE TRANSFORMER WITH A ARROYO HIGH SCHOOL MEDIUM VOLTAGE TRANSFORMER AND PROVIDE A NEW CUSTOMER OWN MV SWITCHGEAR WITH A METER. THE NEW TRANSFORMER WILL PROVIDE POWER TO THE NEW ARROYO HIGH SCHOOL ADMIN AND PERFORMANCE BUILDING TRANSFORMER ACROSS THE CAMPUS.

B. THE DESIGN INCLUDES THE FOLLOWING NOTABLE FEATURES, BUT IS NOT LIMITED TO THIS SCOPE. CONTRACTOR IS RESPONSIBLE FOR REVIEWING ALL CONTRACT DOCUMENTS AND COORDINATING WITH ALL DISCIPLINES.
1. UTILITY SERVICE ENTRANCE, INCLUDING METER/MAIN AS REQUIRED BY LOCAL JURISDICTION AND UTILITY.
2. POWER DISTRIBUTION INCLUDING TRANSFORMERS, FEEDERS, AND DISTRIBUTION PANELS.

A. CODES AND STANDARDS
1. AMERICANS WITH DISABILITIES ACT, (ADA)
2. NFPA 75: STANDARD FOR THE PROTECTION OF INFORMATION TECHNOLOGY EQUIPMENT: 2025 EDITION
3. NFPA 101: LIFE SAFETY CODE: 2025 EDITION
4. NFPA 110: STANDARD FOR EMERGENCY AND STANDBY POWER SYSTEMS: 2025 EDITION
5. CALIFORNIA BUILDING CODES ENFORCED BY THE AUTHORITY HAVING JURISDICTION (AHJ):
   A. 2025 CALIFORNIA BUILDING CODE (CBC), CALIFORNIA CODE OF REGULATIONS, TITLE-24, PART 2 (BASED ON THE 2024 INTERNATIONAL BUILDING CODE WITH STATE AND LOCAL AMENDMENTS).
   B. 2025 CALIFORNIA FIRE CODE (CFC), CALIFORNIA CODE OF REGULATIONS, TITLE-24, PART 9 (BASED ON 2024 INTERNATIONAL FIRE CODE WITH STATE AND LOCAL AMENDMENTS).
   C. 2025 CALIFORNIA ELECTRIC CODE (CEC), BASED ON THE 2024 NATIONAL ELECTRICAL CODE WITH STATE AND LOCAL AMENDMENTS
   D. 2025 CALIFORNIA BUILDING ENERGY EFFICIENCY STANDARD FOR NONRESIDENTIAL COMPLIANCE, CALIFORNIA CODE OF REGULATIONS, TITLE-24, PART 6.

A. SITE WORK
1. REFER TO ATTACHED SITE PLANS FOR SCOPE OF WORK
2. REFER TO CIVIL PLANS FOR SITE SCOPE OF WORK. EXTEND ALL UTILITIES (POWER).

ABBREVIATIONS

(N)	NEW
(E)	EXISTING TO REMAIN
(D)	EXISTING TO BE REMOVED
(ER)	EXISTING TO BE RELOCATED
(RL)	NEW LOCATION OF RELOCATED ITEM
(F)	FUTURE
AB	ABOVE COUNTER BACKSPLASH
ACU	AIR CONDITIONING UNIT
AC	ALTERNATING CURRENT
A, AMP	AMPERES
AF	AMPERE (RATED) FUSE OR CB FRAME
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	EQUIPMENT SHORT CIRCUIT INTERRUPT RATING (RMS SYM. AMPS)
AL	ALUMINUM (ALLOY)
ALC	AUTOMATIC LIGHTING CONTROL
AS	AMPERE (RATED) SWITCH
AT	CIRCUIT BRKR TRIP SETTING (AMPS)
ATS	AUTOMATIC TRANSFER SWITCH
AUTO	AUTOMATIC
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
BATT	BATTERY
BG	BELOW GRADE
BRKR	CIRCUIT BREAKER
C	CONDUIT (CIRCULAR RACEWAY)
CB	CIRCUIT BREAKER
CFM	CUBIC FEET PER MINUTE
CKT	CIRCUIT
CLG	CEILING
CO	CONDUIT ONLY
CPT	CONTROL POWER TRANSFORMER
CT	CURRENT TRANSFORMER
CU	COPPER
DC	DIRECT CURRENT
DISC	DISCONNECT
DIA	DIAMETER
DIV	DIVISION
DP	DISTRIBUTION PANEL
DPDT	DOUBLE POLE DOUBLE THROW
DPST	DOUBLE POLE SINGLE THROW
DWG	DRAWING
EMER	EMERGENCY
EF	EXHAUST FAN
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
EO	ELECTRICALLY OPERATED
EOL	END OF LINE
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
FA	FIRE ALARM
FAA	FIRE ALARM ANNUNCIATOR
FBO	FURNISHED BY OTHERS
FC	FOOT CANDLES
FF	FLUSH FLOOR MOUNTED
FLA	FULL LOAD AMPERES
FLEX	FLEXIBLE
FPB	FAN POWERED BOX
FSD	FIRE/SMOKE DAMPER
FW	FLUSH WALL MOUNTED
FU	FUSE
GEN	GENERATOR
GFI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
GRAP	GENERATOR REMOTE ANNUNCIATOR PANEL
GRC	GALVANIZED RIGID STEEL CONDUIT
HLO	HANDLE LOCK-ON(OFF)
HP	HORSEPOWER
HPF	HIGH POWER FACTOR
HTR	HEATER
HZ	HERTZ (CYCLES PER SECOND)
IES	ILLUMINATING ENGINEERING SOCIETY
ID	INSIDE DIAMETER
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
KCMIL	THOUSAND CIRCULAR MILS
KO	KNOCK OUT
KW	KILOWATTS
KVA	KILOVOLT-AMPERES
LTG	LIGHTING
LCP	LIGHTING CONTROL PANEL
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPERES
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MO	MANUAL OPERATOR
MTD	MOUNTED
MTR	MOTOR
N	NEUTRAL (GROUNDED CONDUCTOR)
(N)	NEW
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
-,NEG	NEGATIVE
NEMA	NATIONAL ELECTRICAL MFGR'S ASSOC.
NL	NIGHT LIGHT (UNSWITCHED)
NO	NORMALLY OPEN
NTS	NOT TO SCALE
NP	NAMEPLATE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
ODOI	OWNER FURNISHED, OWNER INSTALLED
OS	OCCUPANCY SENSOR
P	POLE
PB	PUSHBUTTON
PDZ	PRIMARY DAYLIGHT ZONE
PH,Ø	PHASE
PNL	PANEL
+,POS	POSITIVE
PRI	PRIMARY
REQD	REQUIRED
RNC	RIGID NON-METALLIC CONDUIT (PVC)
RS	RAPID START
RST	REMOTE STATION TRANSMITTER
S.A.D.	SEE ARCHITECTURAL DRAWINGS
SDZ	SECONDARY DAYLIGHT ZONE
SEC	SECONDARY
SOL	SOLENOID
SPDT	SINGLE POLE DOUBLE THROW
SPST	SINGLE POLE SINGLE THROW
SUB	SUBSTATION
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TB	TERMINAL BOARD
TDC	TIME DELAY CLOSING
TDO	TIME DELAY OPENING
TEL	TELEPHONE
TYP	TYPICAL
UL	UNDERWRITERS LAB
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTX	UTILITY TRANSFORMER
V	VOLTS
VA	VOLT-AMPERES
VFD	VARIABLE FREQUENCY DRIVE
W	WATT
W/	WITH
W/O	WITHOUT
WP	WEATHERPROOF
XFR	TRANSFORMER
XP	EXPLOSION PROOF
Z	ZONE
",IN	INCHES
',FT	FEET
Ø	PHASE
>	GREATER THAN
<	LESS THAN
≥	GREATER THAN OR EQUAL TO

GENERAL NOTES

1. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL CODES, LAWS AND REGULATIONS.
3. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED FEES, PERMITS AND INSPECTIONS.
4. CONTRACTOR IS DIRECTED TO VISIT SITE AND BE FULLY COGNIZANT OF ALL CONDITIONS PRIOR TO PROPOSAL.
5. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL FIXTURES, DEVICES, OUTLETS, ETC.
6. FURNISH AND INSTALL COMPLETE ALL MATERIALS, EQUIPMENT AND LABOR AS SHOWN AND AS NECESSARY FOR COMPLETE WORKABLE SYSTEM.
7. COORDINATE ALL WORK WITH ARCHITECTURAL, MECHANICAL AND STRUCTURAL DRAWINGS. INSTALL ALL WORK TO CLEAR NEW AND EXISTING ARCHITECTURAL AND STRUCTURAL MEMBERS. NO ITEM SUCH AS PIPE, DUCT, ETC. SHALL BE IN CONTACT WITH ANY ELECTRICAL EQUIPMENT.
8. OBTAIN WRITTEN PERMISSION FROM ARCHITECT AND GENERAL CONTRACTOR BEFORE PROCEEDING WITH ANY CUTTING OR PATCHING OF STRUCTURAL SYSTEMS. SUBCONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING RELATED TO THEIR WORK.
9. RUN ALL HOMERUN WIRING IN CONDUIT (EMT) CONCEALED WHEREVER POSSIBLE IN CEILING, WALL OR FLOOR SPACES. RUN ALL RACEWAY TIGHT TO STRUCTURE, PARALLEL TO BUILDING LINES. EXPOSED RACEWAY IN STAIRWELL, EQUIPMENT ROOMS, ETC. SHALL TIGHTLY CONFORM TO BUILDING OUTLINES SO AS TO BE AS INCONSPICUOUS AS POSSIBLE.
10. CONNECT ALL EQUIPMENT FURNISHED UNDER OTHER TRADES AS REQUIRED.
11. UPDATE PANELBOARD DIRECTORY AS CIRCUITS ARE INSTALLED (TO BE TYPED IN PANELBOARD DIRECTORY). ADD NEW LABELS TO UNLABELED PANELS.
12. RESTORE ALL DAMAGE RESULTING FROM YOUR WORK AND LEAVE PREMISES IN CLEAN CONDITION WHEN FINISHED WITH WORK.
13. ANY CONFLICT BETWEEN ANY DRAWINGS IS TO BE CLARIFIED, OR SPECIFICALLY EXCLUDED IN THE SUBMITTED BID DOCUMENT. FOR CONFLICTS NOT CLARIFIED, OR EXCLUDED IN THE BID, THE MOST COMPREHENSIVE CONDITION IS TO APPLY DURING THE COURSE OF THE PROJECT.
14. ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE LISTED BY UNDERWRITER'S LABORATORIES.
15. ANY JUNCTION BOXES (NEW AND EXISTING) ABOVE CEILING MUST BE ACCESSIBLE AT TIME OF COMPLETION. COORDINATE ACCESS PANELS WITH ARCHITECT WHERE REQUIRED.
16. ELECTRICAL CONTRACTOR SHALL REFER TO TELECOMMUNICATIONS CONSULTANT DRAWINGS AND SPECIFICATIONS, AND COORDINATE WITH TELECOM INSTALLER FOR ADDITIONAL WORK TO BE PERFORMED. CONTRACTOR SHALL PROVIDE SEPARATE LINE ITEM IN BID FOR A COMPLETE AND OPERABLE SYSTEM.
17. ELECTRICAL CONTRACTOR SHALL REFER TO SECURITY SYSTEM CONSULTANT DRAWINGS AND SPECIFICATIONS, AND COORDINATE WITH S/S INSTALLER FOR ADDITIONAL WORK TO BE PERFORMED. CONTRACTOR SHALL PROVIDE SEPARATE LINE ITEM IN BID FOR A COMPLETE AND OPERABLE SYSTEM.
18. ELECTRICAL CONTRACTOR SHALL REFER TO AUDIO VISUAL SYSTEM CONSULTANT DRAWINGS AND SPECIFICATIONS, AND COORDINATE WITH A/V INSTALLER FOR ADDITIONAL WORK TO BE PERFORMED. CONTRACTOR SHALL PROVIDE SEPARATE LINE ITEM IN BID FOR A COMPLETE AND OPERABLE SYSTEM.
19. ELECTRICAL CONTRACTOR SHALL REFER TO DATA/PBX SYSTEM CONSULTANT DRAWINGS AND SPECIFICATIONS, AND COORDINATE WITH DATA/PBX INSTALLER FOR ADDITIONAL WORK TO BE PERFORMED. CONTRACTOR SHALL PROVIDE SEPARATE LINE ITEM IN BID FOR A COMPLETE AND OPERABLE SYSTEM.

SHEET INDEX

SHEET NUMBER	SHEET NAME
E0.01	ELECTRICAL LEGEND AND ABBREVIATIONS
E1.00	ELECTRICAL CAMPUS SITE PLAN
E2.01	ENLARGED ELECTRICAL PLAN
E5.01	ELECTRICAL SINGLE LINE DIAGRAM
E9.01	ELECTRICAL DETAILS
E9.02	ELECTRICAL DETAILS
E9.03	ELECTRICAL DETAILS
E9.04	SCE PRELIMINARY DESIGN (FOR REFERENCE ONLY)
E9.05	SCE PRELIMINARY DESIGN (FOR REFERENCE ONLY)
Grand total: 9	

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Δ	DESCRIPTION	DATE
	DSA SUBMITTAL	03/04/26
1	DSA BACK CHECK	10/19/26

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PROJECT:
EMUSD ARROYO HS - CAMPUS WIDE ELECTRICAL UPGRADE

SHEET NAME:
ELECTRICAL LEGEND AND ABBREVIATIONS

BID SET

100% CONSTRUCTION DOCUMENTS

DATE: **2026.10.19** | CLIENT PROJ NO: **3361-008-103**

SHEET:
E0.01

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PLEASE RECYCLE

THE LINE SHOWN ABOVE IS 1" WHEN PRINTED ON THIS SHEET'S ORIGINAL SIZE

SHEET NOTES APPLIES TO SHEET E1.00 AND E2.01

A. CONTRACTOR SHALL COORDINATE WITH SCE FOR EXACT REMOVAL REQUIREMENTS AND INSTRUCTIONS PRIOR TO STARTING WORK FOR ANY EQUIPMENT OR CONDUCTORS.

B. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING EQUIPMENT, CONDUIT AND CONDUCTORS PRIOR TO START OF WORK. IF THERE ARE ANY DISCREPANCY, CONTRACTOR SHALL FORMALLY SUBMIT QUESTIONS TO THE ENGINEER OF RECORD PRIOR FOR DIRECTIONS.

C. WORK SHALL NOT PROCEED UNTIL A COMMITMENT LETTER AND SKETCH HAS BEEN ISSUED BY UTILITY COMPANY. ALL WORK TO COMPLY WITH SCE ELECTRICAL SERVICE REQUIREMENT.

D. ALL CONCRETE PAD SHALL MEET THE REQUIREMENT OF SCE. PRECAST OR POURED IN PLACE.

E. UTILITY METER SOCKET AND ENCLOSURE SHALL MEET SCE REQUIREMENTS.

F. PROVIDE BOLLARDS AROUND EQUIPMENT PER SCE REQUIREMENTS AND MAINTAIN REQUIRED CLEARANCES.

G. DO NOT REMOVE ANY CONDUITS SERVING EXISTING TO REMAIN ITEMS.

H. ALL REMOVED ELECTRICAL MATERIAL INCLUDING WIRING, RACEWAYS, OUTLETS, DEVICES, SUPPORTS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE JOB SITE, UNLESS OTHERWISE DIRECTED BY OWNER.

I. DAMAGE TO OTHER TRADES' WORK AS A RESULT OF THIS WORK IS TO BE PROMPTLY REPAIRED AT NO EXPENSE TO THE OWNER AND TO THE COMPLETE SATISFACTION OF THE OWNER.

J. VISIT THE JOB SITE PRIOR TO SUBMISSION OF BID AND FIELD VERIFY ALL EXISTING CONDITIONS AND THE EXTENT OF THE DEMOLITION WORK. ALL ASSOCIATED DEMOLITION COSTS SHALL BE INCLUDED IN THE BID PRICE. NO EXTRA PAYMENT WILL BE ALLOWED FOR WORK REQUIRED BECAUSE OF DISCERNIBLE CONDITIONS, WHETHER OR NOT SPECIFICALLY SHOWN ON THESE DRAWINGS.

K. THE EXISTING CAMPUS SHALL REMAIN IN SERVICE DURING THE CONSTRUCTION PHASE OF THIS PROJECT. ANY MODIFICATIONS TO THE EXISTING ELECTRICAL SYSTEMS THAT MAY REQUIRE THE TEMPORARY INTERRUPTION OF EXISTING SERVICES SHALL BE COMPLETED AFTER NORMAL WORKING HOURS. PRE-SCHEDULE ANY SERVICE INTERRUPTIONS WITH THE OWNER PRIOR TO STARTING ANY WORK.

L. UTILITY OUTAGES: NOTIFY AND OBTAIN WRITTEN APPROVAL FROM FACILITY NOT LESS THAN TEN (10) WORKING DAYS PRIOR TO A REQUIRED UTILITY OUTAGE. LOCK-OUT AND RED-TAG THE APPROPRIATE EQUIPMENT. TAG SHALL INCLUDE OUTAGE DURATION AND CONTACT INFORMATION.

M. EXISTING CONDITIONS ARE BASED ON AVAILABLE AS-BUILT DRAWINGS AND FIELD INFORMATION. VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION.

N. REMOVE UNUSED CONDUCTORS AND CABLING FROM CONDUIT. CAP ABONDONED UNDERGROUND CONDUIT REMOVE ANY EXPOSED ABANDONED CONDUIT AND RACEWAY, INCLUDING FITTINGS AND SUPPORT, AND PATCH SURROUNDING SURFACE.

O. EXERCISE CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID EXISTING DUCTS, PIPING, CONDUITS, ETC. AND SHALL PREVENT HAZARD TO PERSONNEL AND DAMAGE TO EXISTING UNDERGROUND UTILITIES AND STRUCTURES.

P. REFER TO CIVIL DRAWINGS, UNDERGROUND UTILITY DETECTION DRAWINGS AND VISIT THE SITE TO REVIEW THE EXISTING CONDITIONS. ADJUST UTILITY ROUTING INDICATED TO AVOID STRUCTURES, POLES, LANDSCAPING ETC, AND PROVIDE SAWCUT EXISTING CONSTRUCTION WHERE REQUIRED. BREAK, REMOVE AND PATCHBACK TO TO MATCH EXISTING.

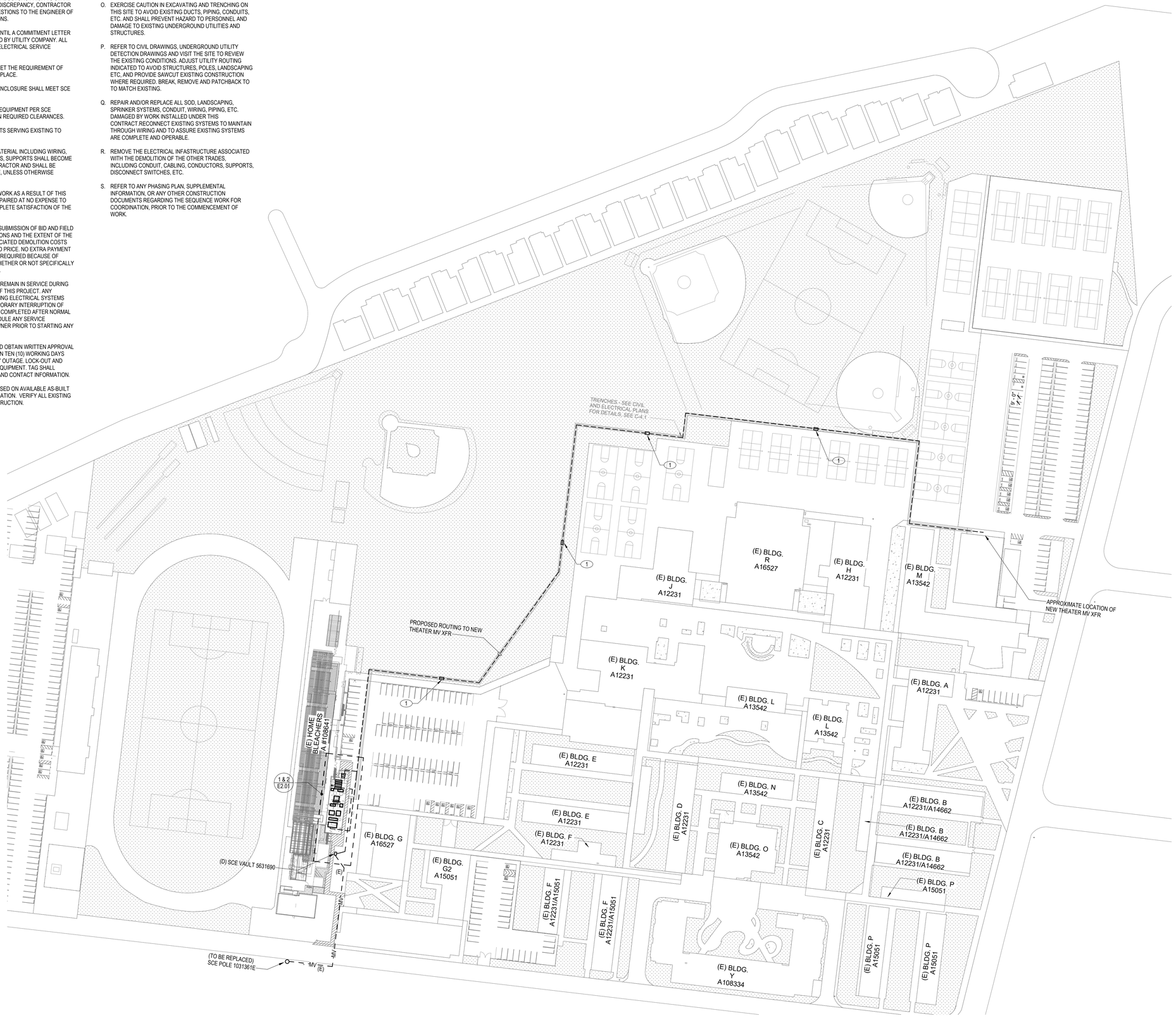
Q. REPAIR AND/OR REPLACE ALL SOD, LANDSCAPING, SPRINKER SYSTEMS, CONDUIT, WIRING, PIPING, ETC. DAMAGED BY WORK INSTALLED UNDER THIS CONTRACT.RECONNECT EXISTING SYSTEMS TO MAINTAIN THROUGH WIRING AND TO ASSURE EXISTING SYSTEMS ARE COMPLETE AND OPERABLE.

R. REMOVE THE ELECTRICAL INFASTRUCTURE ASSOCIATED WITH THE DEMOLITION OF THE OTHER TRADES, INCLUDING CONDUIT, CABLING, CONDUCTORS, SUPPORTS, DISCONNECT SWITCHES, ETC.

S. REFER TO ANY PHASING PLAN, SUPPLEMENTAL INFORMATION, OR ANY OTHER CONSTRUCTION DOCUMENTS REGARDING THE SEQUENCE WORK FOR COORDINATION, PRIOR TO THE COMMENCEMENT OF WORK.

KEYED NOTES (#)

1. PROVIDE NEW 4'X6'-6 PULLING VAULT. REFER TO DETAIL 5 ON SHEET E9.02.



1 ELECTRICAL PROJECT SITE PLAN

SCALE: 1" = 60'-0"

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ISSUE

Δ	DESCRIPTION	DATE
	DSA SUBMITTAL	03/04/26
1	DSA BACK CHECK	10/19/26

KEYNOTES

NOTES

REGISTERED PROFESSIONAL ENGINEER
VALERIA SALDERMANDO
E21403
Exp 03/31/28
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Project Manager:
Job. No.:

FACILITY:

4921 Cedar Ave
El Monte, CA 91732

PROJECT:

EMUSD ARROYO HS - CAMPUS WIDE ELECTRICAL UPGRADE

SHEET NAME:

ELECTRICAL CAMPUS SITE PLAN

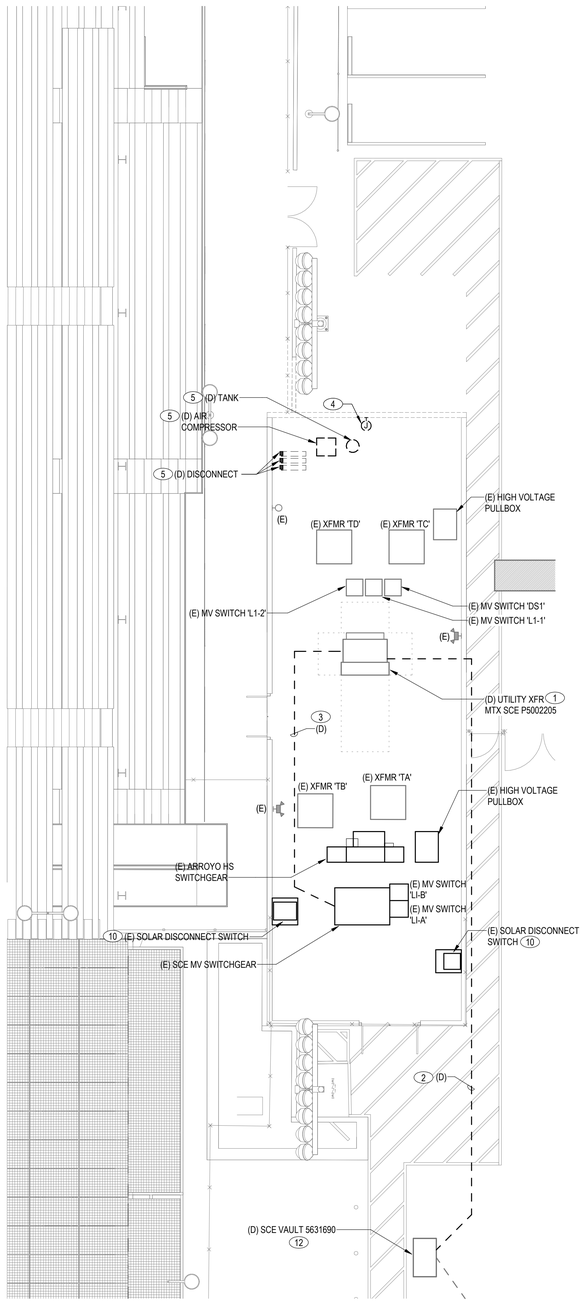
100% CONSTRUCTION DOCUMENTS

DATE: **2026.10.19** | CLIENT PROJ NO: **3361-008-103**

SHEET:

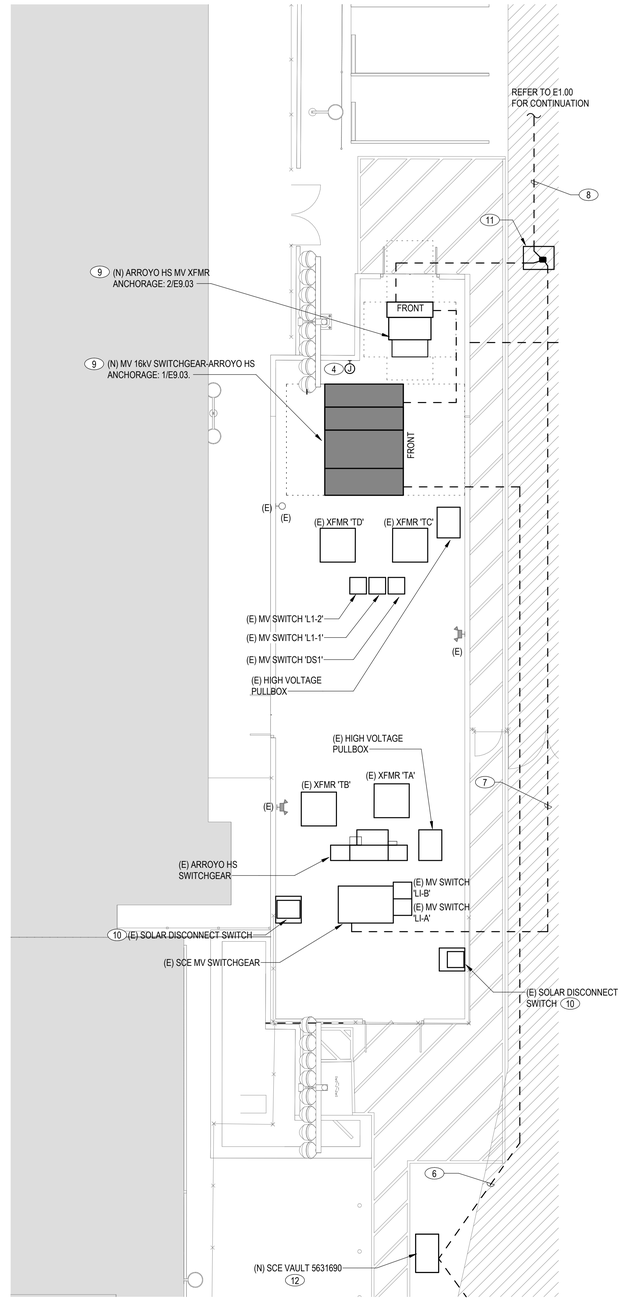
E1.00

THE LINE SHOWN ABOVE IS 1" WHEN PRINTED AT FULL SIZE ON THE ORIGINAL PAGE SIZE



2 ENLARGED ELECTRICAL - DEMOLITION

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



1 ENLARGED ELECTRICAL - NEW

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

SHEET NOTES

A. PHASING INTENT: ALL EXISTING EQUIPMENT SHALL REMAIN IN OPERATION FOR THE DURATION OF THE PROJECT UNTIL CONNECTION TO NEW MEDIUM VOLTAGE TRANSFORMER IS SCHEDULED WITH DISTRICT. INSTALL MEDIUM VOLTAGE SWITCHGEAR, TRANSFORMER, AND ASSOCIATED UNDERGROUND INFRASTRUCTURE PRIOR TO DISCONNECTING AND REMOVING EXISTING SCE TRANSFORMER.
B. COORDINATE WITH SCE FOR EXACT REMOVAL SCOPE, EQUIPMENT OWNERSHIP BOUNDARIES, SERVICE CONVERSION, METER REMOVAL, AND NEW 16KV SWITCHGEAR REQUIREMENTS.
C. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING EQUIPMENT, CONDUIT AND CONDUCTORS PRIOR TO START OF WORK. IF THERE ARE ANY DISCREPANCY, CONTRACTOR SHALL FORMALLY SUBMIT QUESTIONS TO THE ENGINEER OF RECORD PRIOR FOR DIRECTIONS.
D. SCE EQUIPMENT SIZES AND DIMENSIONS ON PLANS ARE ESTIMATES. ACTUAL SIZE AND DIMENSIONS WILL BE ON SCE APPROVED PLANS.
E. REFER TO DETAIL S/SHEET C-5.0 FOR TRENCH DETAIL.
F. EXISTING FEEDERS TO BE MAINTAINED TO EXISTING CAMPUS DISTRIBUTION. CONTRACTOR TO VERIFY ALL CONDUITS AND CONDUCTOR SIZES AND PROTECT IN PLACE DURING INSTALLATION OF NEW SCOPE OF WORK.
G. THE AREA AROUND THE ELECTRICAL YARD IS CONGESTED WITH OTHER UTILITIES (GAS, WATER, SEWER, COMMUNICATIONS, ETC). USE HAND EXCAVATION OR POTHOLING AS REQUIRED TO AVOID ACCIDENTAL DAMAGE AND DISRUPTION TO OTHER UTILITIES.
H. INSPECT AND CLEAN CABLE SHIELD GROUND BRAIDS, GROUNDING CONDUCTORS, AND BONDING CONNECTIONS DURING OUTAGE/REWORK. REPLACE CORRODED OR DAMAGED HARDWARE AS REQUIRED.
I. REFER TO SHEETS E9.04 AND E9.05 FOR SCE PRELIMINARY DESIGN REQUIREMENTS.

KEYED NOTES (#)

1. EXISTING SCE TRANSFORMER P5002205 TO BE DEMOLISHED BY SCE. COORDINATE WITH SCE FOR EXACT REMOVAL REQUIREMENTS AND INSTRUCTIONS PRIOR TO STARTING WORK.
2. EXISTING SCE CONDUCTORS SHALL BE DEMOLISHED BY SCE TO SCE PULLBOX 5631690. CONTRACTOR SHALL PREPARE CONDUCTORS FOR NEW SCOPE OF WORK TO SPLICE CONDUCTORS FOR NEW SERVICE.
3. DISCONNECT AND REMOVE EXISTING MV FEEDER FROM SCE TRANSFORMER SLATED FOR DEMOLITION TO EXISTING SCE MV SWITCHGEAR.
4. TRACE AND IDENTIFY JUNCTION BOX. INTERCEPT AND EXTEND FEEDER TO NEW LOCATION FOR CIRCUIT CONTINUITY.
5. TRACE AND IDENTIFY SOURCE OF POWER. DISCONNECT AND REMOVE EXISTING DISCONNECTS, AIR COMPRESSOR, TANK AND ASSOCIATED FEEDERS AND JUNCTION BOXES BACK TO SOURCE.
6. INTERCEPT EXISTING PRIMARY FEEDER IN EXISTING SCE PULLBOX, SPLICE AND EXTEND TO NEW 16KV SWITCHGEAR. PROVIDE 4 SETS OF 3" C WITH NYLON PULL CORD. CONDUCTORS PER UTILITY COMPANY REQUIREMENTS. COORDINATE WITH UTILITY FOR FINAL CONDUCTOR AND FEEDER SIZES PER COMMITMENT LETTER AND PENDING ENGINEERING DRAWINGS.
7. RECONNECT EXISTING SWITCHGEAR TO NEW TRANSFORMER VIA NEW MV FEEDER.
8. TO NEW TRANSFORMER FOR NEW THEATER/ADMIN BUILDING.
9. PROVIDE NEW CONCRETE PAD PER 1/S1.00. SAW CUT PORTION OF EXISTING SLAB, AS REQUIRED, TO PERFORM NEW WORK. REFER TO SHEET E9.03 FOR ADDITIONAL ANCHOR REQUIREMENTS.
10. REVIEW THE MULTIPLE-SOURCE CONDITIONS (SOLAR/UTILITY) TO ENSURE PROPER SHUTDOWN OF ALL UTILITIES PRIOR TO STARTING WORK.
11. PROVIDE NEW 4'X6'-6 SPLICE VAULT TO MAKE CONNECTION FOR TWO FEEDS OFF TRANSFORMER SECONDARY. REFER TO DETAIL 5 ON SHEET E9.02.
12. EXISTING SCE VAULT TO BE REMOVED AND REPLACED WITH NEW 4'X6'-6"X5' PRECAST CONCRETE VAULT PER SCE PRELIMINARY DESIGN. ALL SCOPE OF WORK ASSOCIATED WITH REPLACEMENT OF VAULT SHALL BE COORDINATED WITH SCE. REFER TO SHEET E9.04 FOR VAULT REQUIREMENTS.

DESIGN FOR GOOD
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PROJECT:

EMUSD ARROYO HS - CAMPUS WIDE ELECTRICAL UPGRADE

SHEET NAME:

ENLARGED ELECTRICAL PLAN

BID SET

100% CONSTRUCTION DOCUMENTS

DATE: **2026.10.19** | CLIENT PROJ NO: **3361-008-103**

SHEET:

E2.01

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THE LINE SHOWN ABOVE IS 3" LONG ON ORIGINAL PLOT. IF NOT, ADJUST SCALE ACCORDINGLY

Project Name:	Arroyo HS Medium Voltage
Project Number:	23US00121
Calculated By:	TK / JJV
Date:	7/7/2025

ELECTRICAL LOAD ESTIMATE - CALCULATION DEMOLISHED BUILDINGS

PURPOSE: The purpose of this calculation is to estimate the building electrical service size. Calculations are based on multiple assumptions including building area type of use, type of mechanical systems, lighting power density, energy conservation measures, and other factors. Throughout the design, the estimated load may change as design decisions are made that affect the electrical service requirements.

LOAD ASSUMPTIONS:

Voltage	480
Phase	3

AREA LOADS

		AREA (sf)	LIGHTING (VA/sf)	LIGHTING (kVA)	POWER (VA/sf)	POWER (kVA)
(D) 7 Portables	Classroom	7,730	1.4	10.82	1	7.73
(D) Building I	Auditorium	7,550	0.9	6.80	1	7.55
(D) Building M	Office	6,668	1.1	7.33	2	13.34
	Demand Factors			1.25		1
	Subtotals	21,948 sf		**31.19** kVA		**28.62** kVA

HVAC LOADS

	Area (sf)	sf/ton	VA/ton		kVA
Portable	7,730	300	2160		55.656
Auditorium	7,550	300	2160		54.36
Office	6,668	300	2160		48.0096
Subtotal					**158.03** kVA

PLUMBING LOADS

	Qty	(HP)	(kW)	(PF)	(kVA)
WH-1	1		4.50	1.00	4.50
Sewage Ejector	0	0			
Subtotal					**4.50** kVA

ELEVATOR LOADS

	Qty	(HP)	(kW)	(PF)	(kVA)
Passenger Elevator	0	0			
Subtotal					**0.00** kVA

OTHER EQUIPMENT LOADS

	Qty	(HP)	(kW)	(PF)	(kVA)
Smoke Exhaust Fan	1	15	11.19	0.80	13.99
Subtotal					**13.99** kVA

SITE

	Ckts	kVA/Ckt	Demand		(kVA)
Site and Building Signage	0	1.20	1.25		0.00

	Area (sf)	VA/sf			(kVA)
Hardscape	0	0.50			0.00
Subtotal					**0.00**

25% LARGEST MOTOR

		(HP)	(kW)	(PF)	(kVA)
Smoke Exhaust Fan	1	15.00	11.19	0.80	13.99
Load x 0.25					**3.50** kVA

ESTIMATED ELECTRICAL LOAD:

Calculated kVA	239.8
Future capacity	0%
Total kVA	**239.8**
Amps	**288.5** A @ 480V 3-Phase

Project Name:	Arroyo HS
Project Number:	23US00121
Calculated By:	TK/JJV
Date:	8/22/2025

PRELIMINARY ELECTRICAL LOAD ESTIMATE - SUMMARY OF DEMOLITION LOADS

PURPOSE: The purpose of this calculation is to estimate the building electrical service size. Calculations are based on multiple assumptions including building area type of use, type of mechanical systems, lighting power density, energy conservation measures, and other factors. Throughout the design, the estimated load may change as design decisions are made that affect the electrical service requirements.

LOAD ASSUMPTIONS:

Total Area	21,948 sf
Voltage	480

Note: Additional load assumptions including area category breakdowns and mechanical systems are not included on the summary sheet.

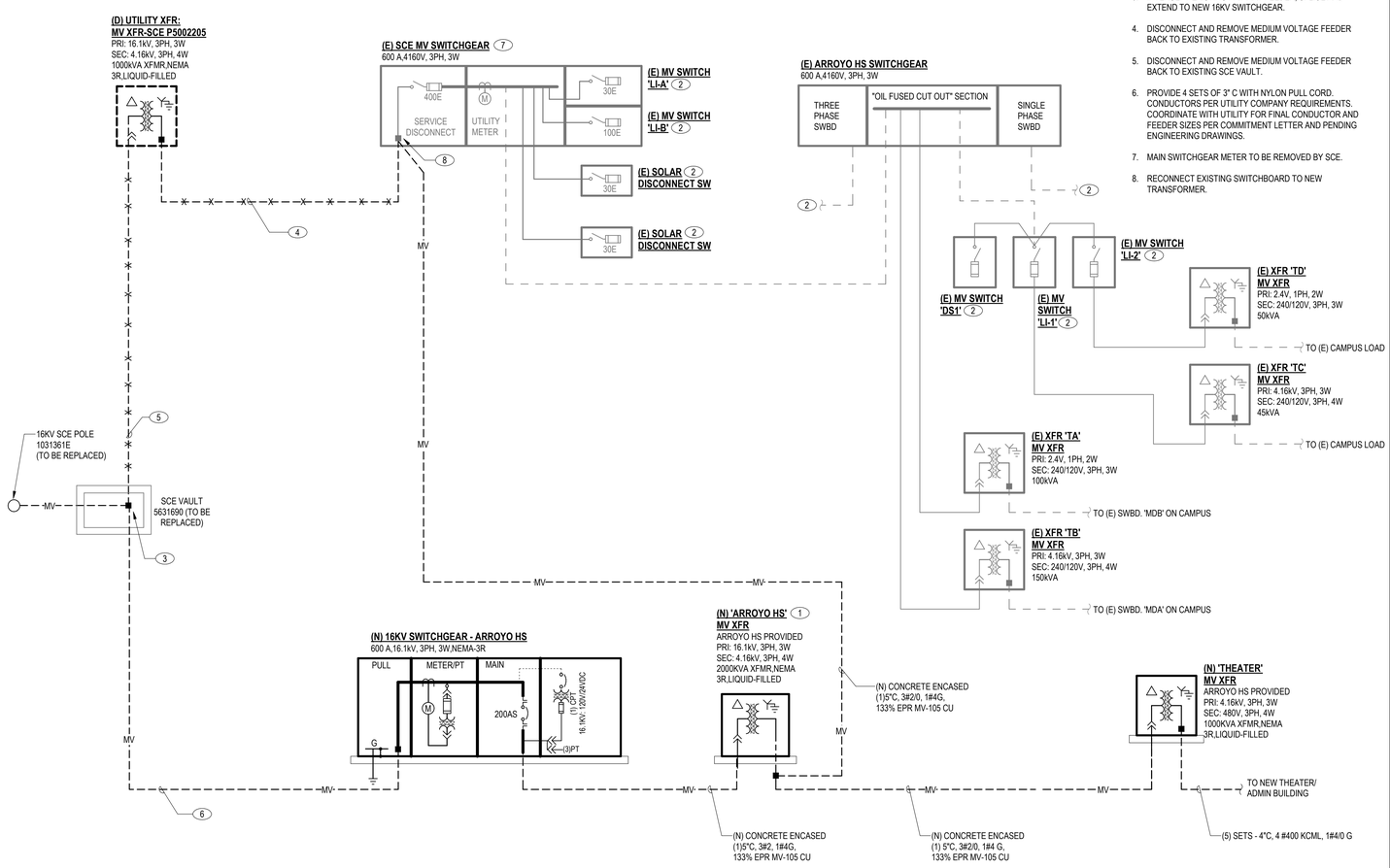
ESTIMATED ELECTRICAL LOAD REMOVED:

Total kVA	239.8
Amps	288.5 A @ 480V 3-Phase

LOAD CALCULATIONS

Description	Sqft	Sqm	W/Sqm	Load (kW)	
Total Building Area (basic load) office area	31,024	2882	50	144	LIGHTING AND POWER LOAD for the comlete building including theatre
theatre LIGHITNG				184	AS PER THEATRE CONSULTANT @100%
Mechanical load (HEATING OR COOLING)				400	AS PER REVISED M&P LIST @75% DIVERSITY ON heating or cooling equipments. Others are @100% like plumbing
Total Load				728	
Total load@ 100% Demand factor (kW)				728	
Total @ .95 pf				766	Building I &M New 1000KVA TRANFORMER
Amps 480V, 3ph				922	
Amps 480V, 3ph service size @125%				1152	
Next Amps rating available				1200A	MINIMUM MAIN BREAKER RATING @80% FOR SWBD

Peak demand (12 months SCE- 0.8 pf and 1.25% size consideration)	919	kVA		CALULATIONS FOR NEW SCE XFMR AND NEW SERVICE
Gym load	201	kW		
New Construction (NC) building load	728	kw		
Removed load - Building I & M / Portables /	-240	kVA		
	1608	kw		2000 kva XFMR MINIMUM @16400K
AT MAIN SERVICE BREAKER SIZE	72	A	AT 16KV	MAIN SERVICE 200 BREAKER SIZE
Exisitng fuse disconnect is 200A and service upgrade is required				



1 **MV - Single Line Diagram**
SCALE: 12" = 1'-0"

SHEET NOTES

A. PHASING INTENT: ALL EXISTING EQUIPMENT SHALL REMAIN IN OPERATION FOR THE DURATION OF THE PROJECT UNTIL CONNECTION TO NEW MEDIUM VOLTAGE TRANSFORMER IS SCHEDULED WITH DISTRICT. INSTALL MEDIUM VOLTAGE SWITCHGEAR, TRANSFORMER, AND ASSOCIATED UNDERGROUND INFRASTRUCTURE PRIOR TO DISCONNECTING AND REMOVING EXISTING SCE TRANSFORMER.
B. REFER TO DETAILS SHEETS FOR GROUNDING DETAILS.
C. ALL COMPONENTS SHALL BE FULLY RATED. SERIES RATED IS NOT ALLOWED.
D. PROVIDE ARC ENERGY REDUCTION MAINTENANCE SWITCH AND INDICATING LIGHT ON ALL OCPD DEVICES RATED OR ABLE TO BE ADJUSTED TO 1200A OR HIGHER PER NEC 240.87.
E. PROVIDE GROUND FAULT PROTECTION ON ALL OCPD DEVICES RATED OR ABLE TO BE ADJUSTED TO 1000A OR LARGER FOR SYSTEMS OF MORE THAN 150V TO GROUND. NEC 210.13, 215.10; 230.95; 240.13; FOR FEEDERS SERVING EMERGENCY LOADS, PROVIDE ALARM-ONLY PER NEC 700.6 AND 700.31.
F. COORDINATE WITH SCE FOR EXACT REMOVAL SCOPE, EQUIPMENT OWNERSHIP BOUNDARIES, SERVICE CONVERSION, METER REMOVAL, AND NEW 16KV SWITCHGEAR REQUIREMENTS.
G. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING EQUIPMENT, CONDUIT AND CONDUCTORS PRIOR TO START OF WORK. IF THERE ARE ANY DISCREPANCY, CONTRACTOR SHALL FORMALLY SUBMIT QUESTIONS TO THE ENGINEER OF RECORD PRIOR FOR DIRECTIONS.
H. SCE EQUIPMENT SIZES AND DIMENSIONS ON PLANS ARE ESTIMATES. ACTUAL SIZE AND DIMENSIONS WILL BE ON SCE APPROVED PLANS.
I. REFER TO DETAIL 5/SHEET C-5.0 FOR TRENCH DETAIL.
J. EXISTING FEEDERS TO BE MAINTAINED TO EXISTING CAMPUS DISTRIBUTION. CONTRACTOR TO VERIFY ALL CONDUITS AND CONDUCTOR SIZES AND PROTECT IN PLACE DURING INSTALLATION OF NEW SCOPE OF WORK.
K. THE AREA AROUND THE ELECTRICAL YARD IS CONGESTED WITH OTHER UTILITIES (GAS, WATER, SEWER, COMMUNICATIONS, ETC). USE HAND EXCAVATION OR POTHOLING AS REQUIRED TO AVOID ACCIDENTAL DAMAGE AND DISRUPTION TO OTHER UTILITIES.
L. INSPECT AND CLEAN CABLE SHIELD GROUND BRAIDS, GROUNDING CONDUCTORS, AND BONDING CONNECTIONS DURING OUTAGE/REWORK. REPLACE CORRODED OR DAMAGED HARDWARE AS REQUIRED.

KEYED NOTES (#)

1. PROVIDE 2000 KVA TRANSFORMER WITH CONCRETE PAD. SEE STRUCTURAL SHEETS FOR ADDITIONAL INFORMATION.
2. EXISTING FEEDERS TO BE MAINTAINED TO EXISTING CAMPUS DISTRIBUTION. CONTRACTOR TO VERIFY ALL CONDUITS AND CONDUCTOR SIZES AND PROTECT IN PLACE DURING INSTALLATION OF NEW SCOPE OF WORK.
3. INTERCEPT EXISTING PRIMARY FEEDER, SPLICE AND EXTEND TO NEW 16KV SWITCHGEAR.
4. DISCONNECT AND REMOVE MEDIUM VOLTAGE FEEDER BACK TO EXISTING TRANSFORMER.
5. DISCONNECT AND REMOVE MEDIUM VOLTAGE FEEDER BACK TO EXISTING SCE VAULT.
6. PROVIDE 4 SETS OF 3" C WITH NYLON PULL CORD. CONDUCTORS PER UTILITY COMPANY REQUIREMENTS. COORDINATE WITH UTILITY FOR FINAL CONDUCTOR AND FEEDER SIZES PER COMMITMENT LETTER AND PENDING ENGINEERING DRAWINGS.
7. MAIN SWITCHGEAR METER TO BE REMOVED BY SCE.
8. RECONNECT EXISTING SWITCHBOARD TO NEW TRANSFORMER.

DESIGN FOR GOOD
HMC Architects
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EMUSD ARROYO HS - CAMPUS WIDE ELECTRICAL UPGRADE

SHEET NAME:

ELECTRICAL SINGLE LINE DIAGRAM

BID SET

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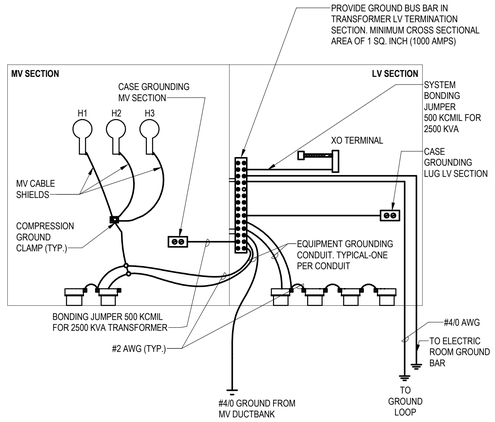
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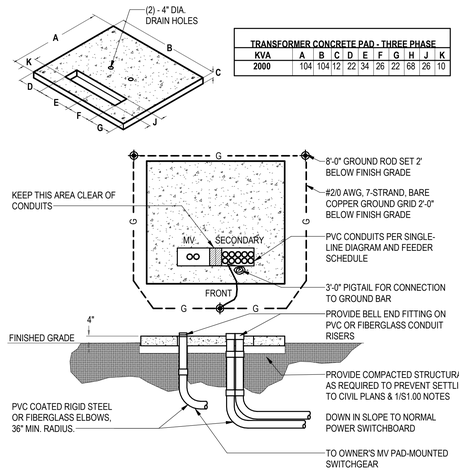
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6 PAD-MOUNTED MV TRANSFORMER GROUNDING CONNECTIONS

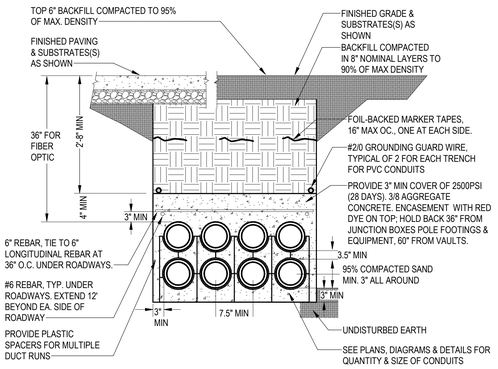
SCALE: NONE



TRANSFORMER CONCRETE PAD - THREE PHASE										
KVA	A	B	C	D	E	F	G	H	J	K
2000	104	104	12	22	34	26	22	68	26	10

5 PAD-MOUNTED TRANSFORMER PAD INSTALLATION

SCALE: NONE



NOTES:

A. OMIT CONCRETE ENCASEMENT WHEN DUCT BANK IS ROUTED UNDER BUILDING SLAB.

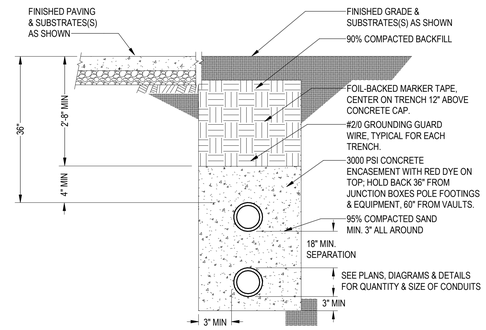
B. OMIT GUARD WIRES ON DUCT BANKS THAT ARE ROUTED ENTIRELY UNDER BUILDING SLABS.

C. OMIT CONCRETE ENCASEMENT AND GUARD WIRES OVER SITE SECURITY AND SITE LIGHTING CONDUITS.

D. TRENCH AND CONDUIT PLACEMENT PER THE UTILITY COMPANY REQUIREMENTS AND THEIR UNDERGROUND STANDARDS.

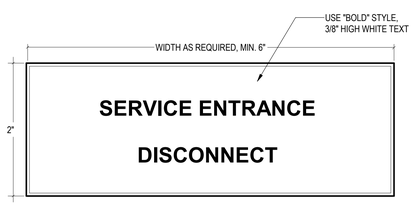
2 CONCRETE ENCASED DUCT BANK

SCALE: NONE



1 MEDIUM VOLTAGE DUCT BANK

SCALE: NONE



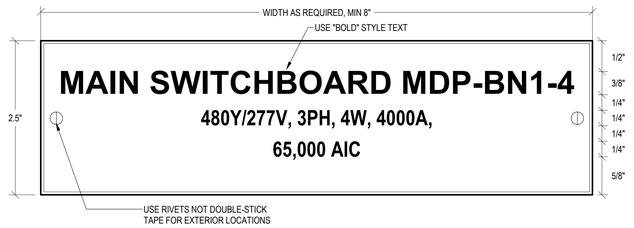
NOTES:

A. CENTER ALL TEXT HORIZONTALLY.

B. THIS DETAIL APPLIES TO EACH SERVICE DISCONNECT, WHERE MULTIPLE ARE PROVIDED.

7 UTILITY SERVICE ENTRANCE DISCONNECT SIGN

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



NOTES:

A. TEXT SHOWN ABOVE IS FOR EXAMPLE ONLY. MODIFY TEXT AS REQUIREDTO MATCH EQUIPMENT SPECIFICATIONS.

B. CENTER ALL TEXT HORIZONTALLY.

4 MAIN SWITCHBOARD NAMEPLATE

SCALE: NONE

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ELECTRICAL DETAILS

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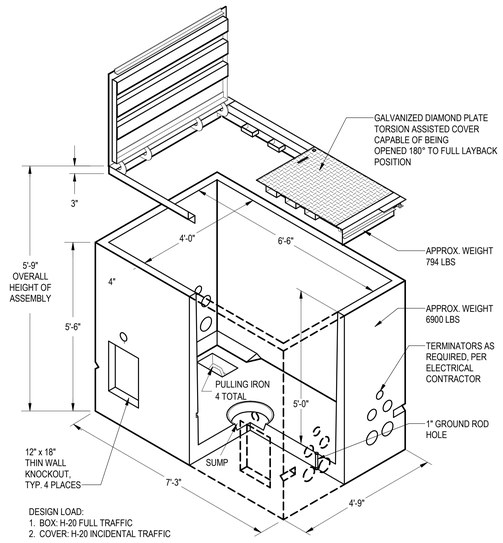
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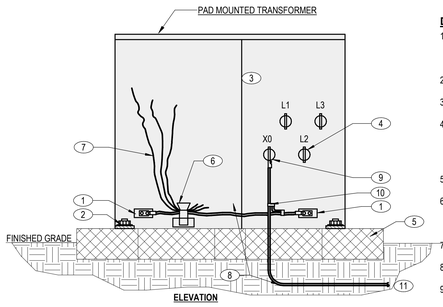
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DESIGN LOAD:
1. BOX: H-20 FULL TRAFFIC
2. COVER: H-20 INCIDENTAL TRAFFIC

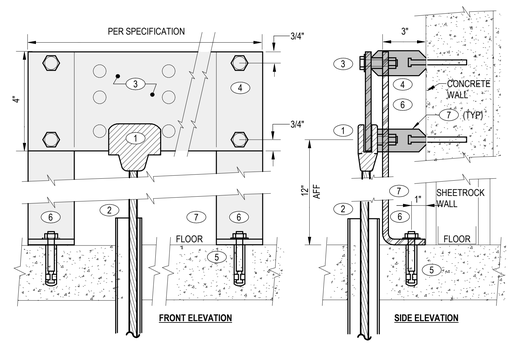
5 4' X 6'-6" X 5' SPLICE/PULLING VAULT
SCALE: NONE

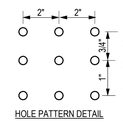


DETAIL NOTES (#)

1. TANK GROUND PAD. TERMINATE GROUND CONDUCTOR TO PAD WITH HI-PRESS, 2 HOLE, LONG BARREL COPPER LUGS AND SILICON BRONZE HARDWARE. (BOLT AND BELLVILLE WASHERS)
2. TRANSFORMER HOUSING BOLT DOWNS. REFER TO 3/E9.01 DRAWINGS.
3. STEEL HIGH/LOW VOLTAGE COMPARTMENT BARRIER.
4. EXTERNALLY-CLAMPED LOW VOLTAGE EPOXY BUSHINGS WITH NEMA 8-HOLE SPADE. PROVIDE HI-PRESS, 2 HOLE, LONG BARREL COPPER LUGS, AND TERMINATE WITH APPROPRIATE SIZE SILICON BRONZE HARDWARE (BOLT, NUT, FLAT WASHER).
5. CAST IN PLACE TRANSFORMER PAD. PER 1/S1.00 & 3/E9.01.
6. CONNECT ALL GROUND CONDUCTORS TOGETHER AS INDICATED. ALL GROUNDING COMPONENTS TO BE COPPER AND APPROPRIATE SIZE SILICON BRONZE HARDWARE (BOLTS, NUTS AND BELLVILLE WASHERS).
7. MV CABLE SHIELD GROUND PIGTAILS, #6 BARE COPPER.
8. #4/0 SOFT DRAWN COPPER.
9. TERMINATE GROUNDING ELECTRODE CONDUCTOR TO NEUTRAL SPADE WITH HI- PRESS, 2 HOLE, LONG BARREL, COPPER LUG HARDWARE.
10. HI-PRESS, HYGRID CROSS CONNECTOR.
11. #4/0 COPPER LEAD TO GROUND RODS.

4 PAD MOUNTED TRANSFORMER GROUNDING
SCALE: NONE

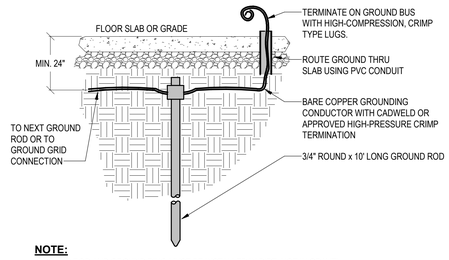




DETAIL NOTES (#)

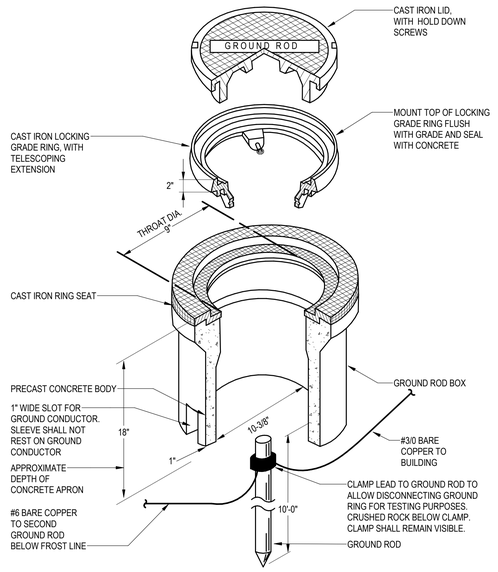
1. IRREVERSIBLE TYPE WELDED OR HIGH-PRESSURE CRIMP GROUND CONDUCTOR TO BUS BAR CONNECTOR.
2. UNDERGROUND COPPER GROUND CONDUCTORS IN PVC CONDUITS.
3. 1/4" THICK X HEIGHT AND WIDTH SHOWN, COPPER GROUND BUS.
4. 3/8"∅ X 3" LONG BOLT WITH LOCK WASHER AND SPACER FOR ATTACHING COPPER GROUND BUS TO SUPPORTS.
5. SUPPORT ANCHOR BOLT. 3-1/2" MINIMUM EMBEDMENT.
6. 1/4" THICK X 2" WIDE GALVANIZED STEEL PLATE GROUND BUS SUPPORTS. BENT AS SHOWN. USE WHERE GROUND BUS IS ADJACENT TO SHEETROCK WALLS.
7. FOR CONCRETE WALL MOUNTING APPLICATIONS: USE STANDARD RED INSULATING BUS BAR STANDOFFS, AND OMIT STEEL FLOOR PLATE GROUND BUS SUPPORT.

3 MAIN BUILDING REFERENCE GROUND BUS
SCALE: NONE



NOTE:
GROUND ROD AND GROUND RING MUST BE INSTALLED IN DIRT, NOT IN GRAVEL.

2 GROUND ROD TYPICAL
SCALE: 1/8" = 1'-0"



1 GROUND ROD TEST WELL
SCALE: NONE

DESIGN FOR GOOD
HMC Architects
3361-008-103
633 W. 5TH STREET, THIRD FLOOR,
LOS ANGELES, CA, 90071
213 542 8300 / www.hmcarchitects.com

ISSUE

Δ	DESCRIPTION	DATE
	DSA SUBMITTAL	03/04/26
1	DSA BACK CHECK	10/19/26

KEYNOTES

NOTES

REGISTERED PROFESSIONAL ENGINEER
VALERIA BALDERRAMA
E21403
Exp. 03/31/28
ELECTRICAL
STATE OF CALIFORNIA

GLUMAC
A TETRA TECH COMPANY
707 Wilshire Blvd., Suite 1550
Los Angeles, CA 90017
www.glumac.com
T. 213.239.8866
Project Manager:
Job. No.:

FACILITY:

4921 Cedar Ave
El Monte, CA 91732

PROJECT:

EMUSD ARROYO HS - CAMPUS WIDE ELECTRICAL UPGRADE

SHEET NAME:

ELECTRICAL DETAILS

100% CONSTRUCTION DOCUMENTS

DATE: **2026.10.19** | CLIENT PROJ NO: **3361-008-103**

SHEET:

E9.02

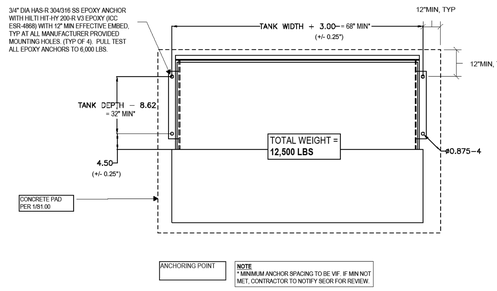
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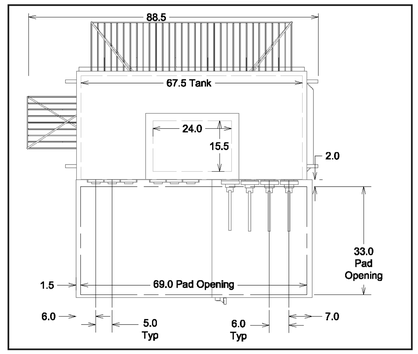
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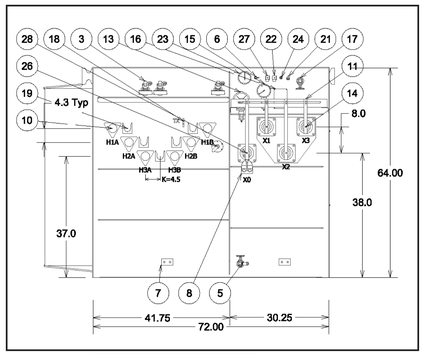
IF THIS LINE SHOWN ABOVE IS NOT 1" LONG, THIS SHEET IS NOT ORIGINAL PAPER SIZE

NOTES:
1. CONTRACTOR TO VERIFY EXACT EQUIPMENT DIMENSIONS, WEIGHTS, AND ANCHORING POINTS BASED ON MANUFACTURER'S SITE SPECIFIC SHOP DRAWINGS.
2. CHANGES TO THE APPROVED PLANS SHALL BE MADE BY MEANS OF CONSTRUCTION CHANGE DOCUMENTS AND SUBMITTED TO DSA FOR APPROVAL.
3. CONTRACTOR TO PROVIDE AS PART OF THE EQUIPMENT SUBMITTAL A FULLY DIMENSIONED EQUIPMENT YARD SHOWING EQUIPMENT, PROPOSED PAD SIZES AND CLEARANCES FOR REVIEW. DIMENSIONS BASED ON EQUIPMENT FABRICATION SHOP DRAWINGS BY THE MANUFACTURER.

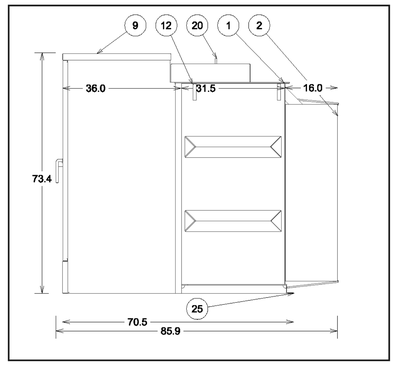


PLAN VIEW



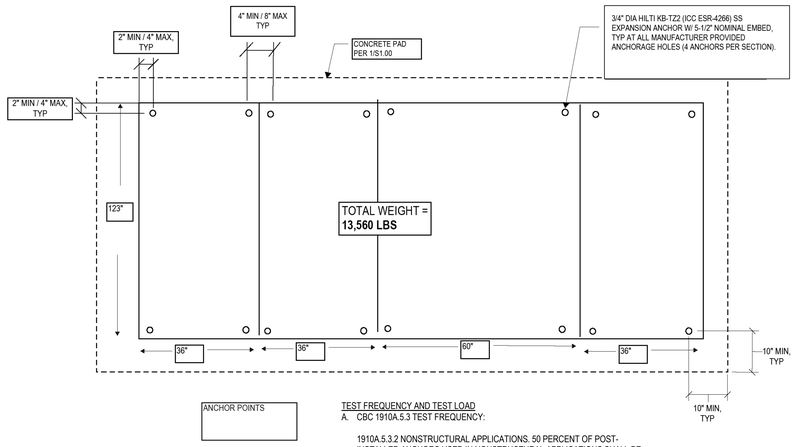


FRONT VIEW



SIDE VIEW

2 2000kVA XFMR Elevation
SCALE: 12" = 1'-0"



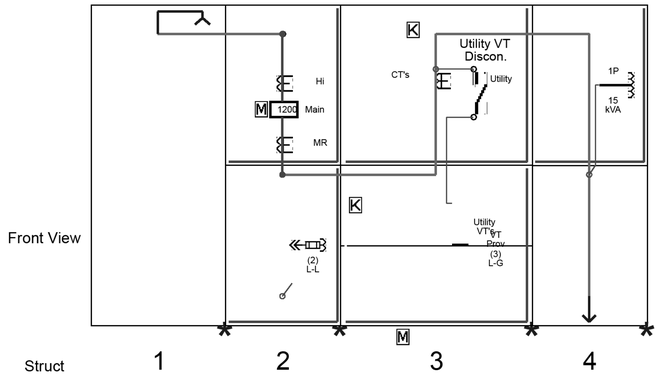
TEST FREQUENCY AND TEST LOAD

A. CBC 1910A.5.3 TEST FREQUENCY:

1910A.5.3.2 NONSTRUCTURAL APPLICATIONS. 50 PERCENT OF POST-INSTALLED ANCHORS USED IN NONSTRUCTURAL APPLICATIONS SHALL BE PROOF TESTED. THE PERCENTAGE OF TESTED ANCHORS APPLIES TO EACH SET OF ANCHORS OF A COMMON TYPE (E.G., ADHESIVE, WEDGE, OR SHELL AND SLEEVE FOR EXPANSION BOLTS), SIZE, AND EMBEDMENT DEPTH AND TO EACH GROUP OF ANCHORS. FOUR OR MORE ANCHORS CONNECTED TO A COMMON ELEMENT SHALL BE DEFINED AS A GROUP.

B. CBC 1910A.5.4 TEST LOADS:

THE MANUFACTURER'S RECOMMENDED INSTALLATION TORQUE BASED ON AN APPROVED EVALUATION REPORT USING CRITERIA ADOPTED IN THIS CODE.



BOTTOM FEED.

(4) ANCHORAGE POINTS AT EACH SECTION. TO BE ANCHORED WITH HILTI KB-TZ2.

NOTES:
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Structure	1	2	3	4		
Ship-Inches	42	36	60	36		
Ship-MM	1066	914	1524	914		
Wdth-Inches	42	36	60	36		
Wdth-MM	1066	914	1524	914		
Depth-Inches	123.26	123.26	123.26	123.26		
Depth-MM	3130	3130	3130	3130		
Height-Inches	122.07	122.07	122.07	122.07		
Height-MM	3100	3100	3100	3100		
Weight-Lbs	2900	3680	3400	3000		
Weight-Kg	1315	1669	1542	1360		

1 Switchgear Elevation
SCALE: 12" = 1'-0"

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KEYNOTES

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DATE: **2026.10.19**

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SHEET:

E9.03

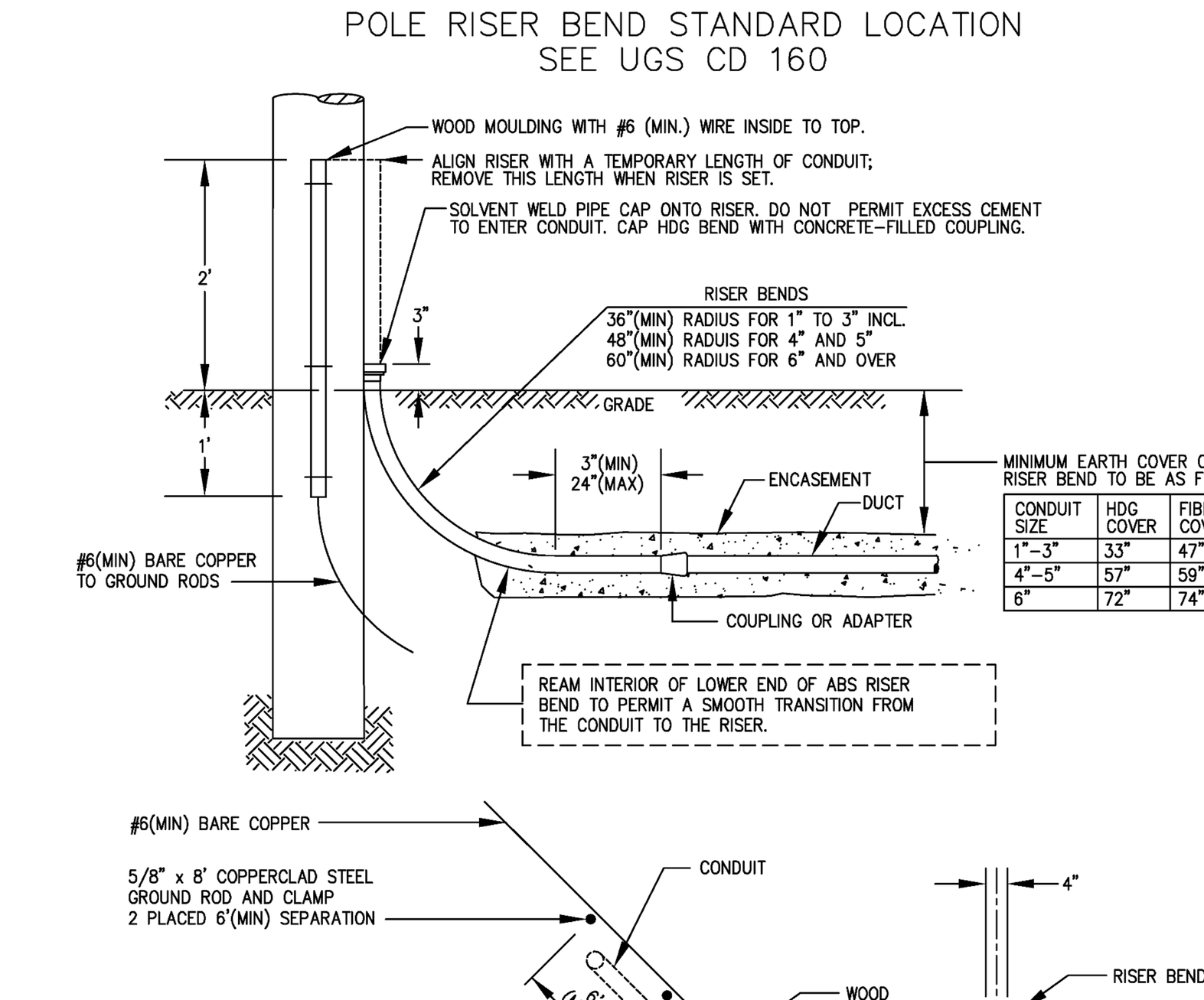
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PLEASE RECYCLE

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT THIS SHEETS ORIGINAL PAGE SIZE

POLE RISER BEND STANDARD LOCATION
SEE UGS CD 160



1. APPROVED RISER BENDS ARE SHOWN ON FOLLOWING TABLE;

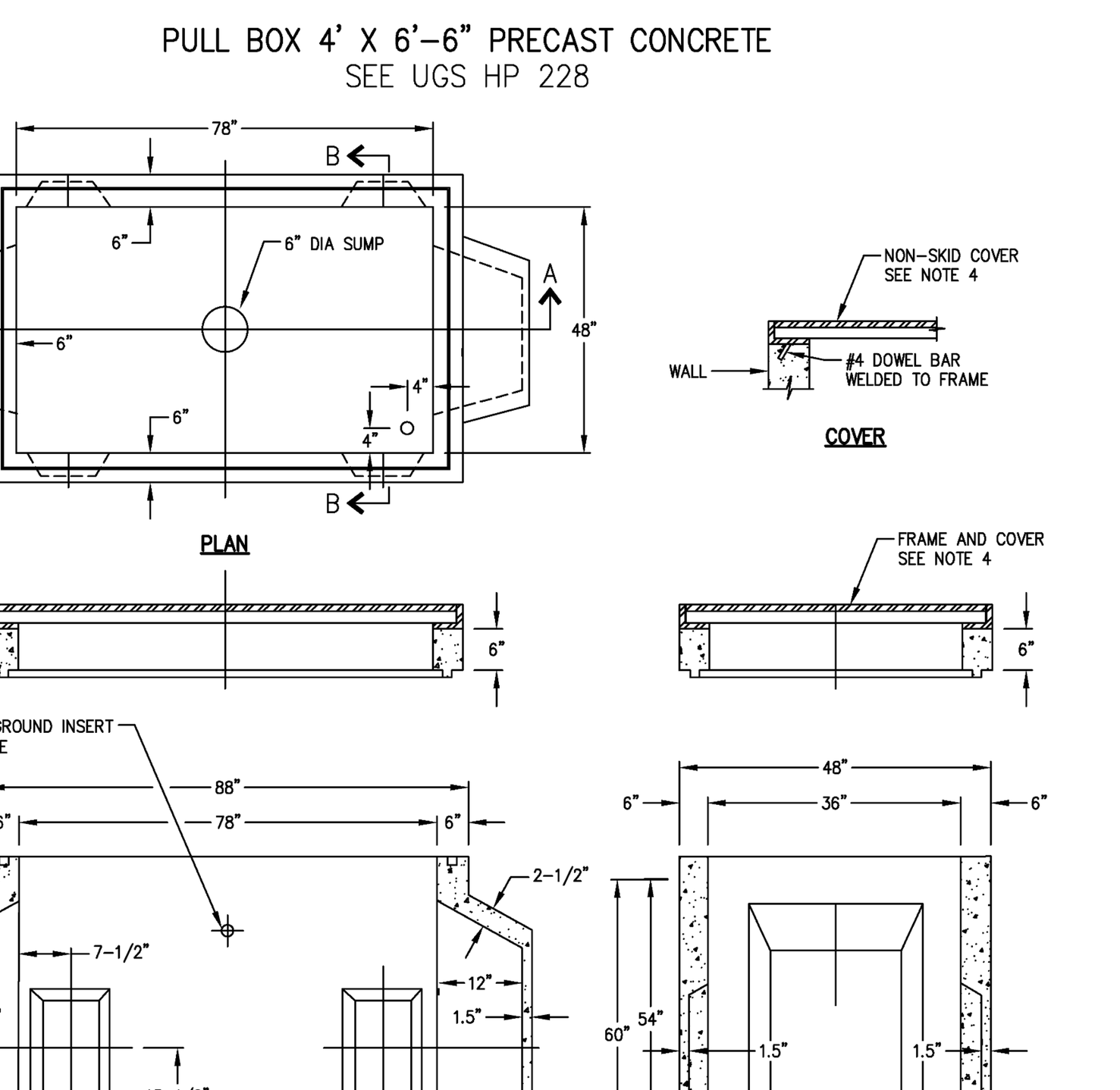
MATERIAL	SIZE 1"	1-1/2"	2"	2-1/2"	3"	4"	5"	6"
ABS	–	–	–	X	X	X	X	–
FIBERGLASS	–	–	–	–	X	X	X	X
HDG	X	X	X	X	X	X	X	X

NOTE: 6" HDG OR FIBERGLASS RISER BEND SHALL BE USED WHEN SPECIFIED ON THE WORKING DRAWING. SEE UGS AC 702 FOR GROUNDING HDG RISER BENDS.

2. THE TOP AND BOTTOM OF 3", 4", 5" OR 6" FIBERGLASS BENDS ARE FURNISHED WITH PERMANENTLY ATTACHED PVC COUPLINGS. ALSO INCLUDED IS A 6" LONG 3", 4", 5" OR 6" SCHEDULE 80 PVC STUB-OUT, SOLVENT WELDED INTO THE TOP COUPLING. SEE UGS CD 166 FOR FIBERGLASS RISER BEND MATERIAL INFORMATION AND SUPPLIERS.
3. TWO GROUND RODS ARE REQUIRED AT ALL PRIMARY RISER POLES. DRIVE RODS IN TRENCH BOTTOM WITH 6' MINIMUM SEPARATION IN UNDISTURBED EARTH. LEAVE THE ROD TOPS 3" ABOVE THE TRENCH BOTTOM AND ATTACH CONTINUOUS GROUND WIRE WITH CLAMPS. EXTEND WIRE TO INDICATED LOCATION ON POLE AND STUB UP 2' ABOVE GRADE IN WOOD MOULDING. ALL GROUNDING MATERIALS FURNISHED BY CONTRACTORS. SEE UGS AC 703 FOR APPROVED GROUNDING MATERIALS.
4. ENCASEMENT REQUIRED ONLY WHEN CALLED OUT ON WORKING DRAWING.
5. PVC RISERS MAY BE SUBSTITUTED FOR FIBERGLASS FOR STRAIGHT RUNS OF 150' OR LESS IN CONDUIT SIZES 4" AND UNDER.

D78: REV. 02/14/11

PULL BOX 4' X 6'-6" PRECAST CONCRETE
SEE UGS HP 228



NOTE(S):
1. STRUCTURAL DESIGN CRITERIA:
   - HS-20-44 LOADING PER ASTM C 857
   - LIFT ASSIST STEEL COVER DESIGN SHALL MEET ASTM C1802 LOAD LEVEL 6 (FULL TRAFFIC)
2. CONCRETE:
   CONCRETE SHALL BE CLASS "A" WITH 28-DAY COMPRESSIVE STRENGTH OF 3,000 PSI (MINIMUM). SLIGHT TAPER (3/4" IN DEPTH OF PULL BOX) AND 1" CHAMFER ON ALL INSIDE CORNERS PERMITTED FOR EASE OF FORMING.
3. INSTALLATION:
   PULL BOX SHALL BE PLACED ON 6" COMPACTED ROCK OR SAND BASE TO ENSURE UNIFORM DISTRIBUTION OF SOIL PRESSURE IN FLOOR. MINIMUM EXCAVATION FOR PULL BOX SHALL BE 84" X 114" X DEPTH TO SUIT JOB.
4. COVERS:
   SEE FC 615 FOR PULL BOX COVERS.
5. GRADE RINGS:
   INSTALLING CONTRACTOR SHALL PROVIDE GRADE RINGS (6" MINIMUM) AS NECESSARY IN ORDER TO MAINTAIN COVER OVER CONDUITS PER SCE SPECIFICATIONS OR PERMIT AGENCY SPECIFICATIONS, WHICHEVER IS GREATER.
6. PULL IRONS AND EYES:
   SEE AC 729 FOR PULL IRONS AND AC 720 FOR PULL EYES.
7. 2/0 GROUNDING REQUIRED.

D53A: 04/18/25

APPLICANTS EXPRESSLY REPRESENT AND WARRANT THAT ALL WORK PERFORMED AND ALL MATERIAL USED IN MEETING APPLICANTS' OBLIGATIONS HEREIN ARE FREE FROM DEFECTS IN WORKMANSHIP AND ARE IN CONFORMITY WITH SOUTHERN CALIFORNIA EDISON COMPANY'S REQUIREMENTS. THIS WARRANTY SHALL COMMENCE UPON RECEIPT BY APPLICANTS OF THE COMPANY'S FINAL ACCEPTANCE AND SHALL EXPIRE ONE YEAR FROM THAT DATE. APPLICANTS AGREE TO PROMPTLY CORRECT TO THE COMPANY'S SATISFACTION AND THAT OF ANY GOVERNMENTAL AGENCY HAVING JURISDICTION AND AT APPLICANTS' EXPENSE ANY BREACH OF THIS WARRANTY WHICH MAY BECOME APPARENT THROUGH INSPECTION OR OPERATION OF UNDERGROUND ELECTRIC SYSTEM BY THE COMPANY DURING THIS WARRANTY PERIOD.

D20: 03/22/24

LEGEND CODE DEFINITIONS

CI – CUSTOMER/CONTRACTOR INSTALLED: MATERIALS FURNISHED AND INSTALLED BY APPLICANT AT EDISON'S EXPENSE AND ARE DEEDED TO EDISON. (EXCEPTION: STREET LIGHT ELECTROLIERS WILL BE INSTALLED BY EDISON'S CONTRACTOR.)

CO – CUSTOMER OWNED: MATERIALS FURNISHED, INSTALLED, OWNED, AND MAINTAINED BY APPLICANT.

CF – CUSTOMER FURNISHED: MATERIALS FURNISHED AND INSTALLED BY APPLICANT AT APPLICANT'S EXPENSE THAT ARE DEEDED TO EDISON.

IN – INSTALL: MATERIALS FURNISHED AND INSTALLED BY APPLICANT IF APPLICANT INSTALLED PROJECT OR BY EDISON IF EDISON INSTALLED PROJECT. (EXCEPTION: FOR AN APPLICANT INSTALLED LINE EXTENSION. STATION NOS.________
HAVING AN ASTERISK ADJACENT TO AN "IN" LEGEND CODE REPRESENTS MATERIALS TO BE PROVIDED BY APPLICANT AND INSTALLED BY EDISON IN ALL CASES. REFER TO DPB 8258. PROJECT MATERIAL LIST BY ASSEMBLY WITHIN A STATION.)

RM – REMOVE: MATERIALS REMOVED BY EDISON.

MI – MEMO INSTALLED: SAME AS IN/INSTALL.

MR – MEMO REMOVED: MATERIALS REMOVED BY EDISON.

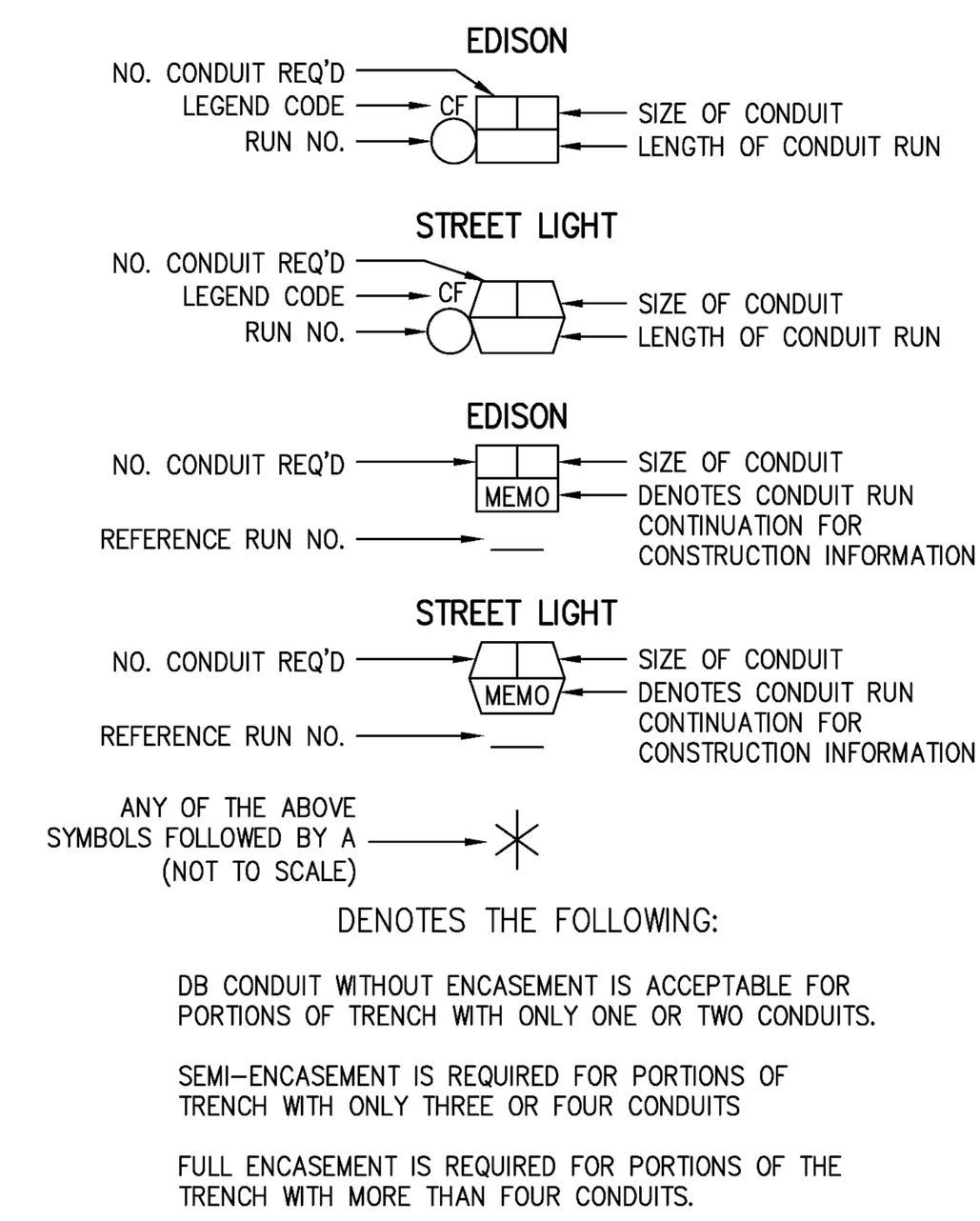
SI – SHOO-FLY INSTALLED: MATERIALS FURNISHED AND INSTALLED BY EDISON FOR TEMPORARY CONSTRUCTION.

SR – SHOO-FLY REMOVED: MATERIALS REMOVED BY EDISON FOR TEMPORARY CONSTRUCTION.

TR – TRANSFER: EDISON LABOR REQUIRED TO TRANSFER EXISTING FACILITIES.

D31: 03/22/24

LEGEND OF CONDUIT SYMBOLS
(CONVENTIONAL U.G.)



DENOTES THE FOLLOWING:

DB CONDUIT WITHOUT ENCASEMENT IS ACCEPTABLE FOR PORTIONS OF TRENCH WITH ONLY ONE OR TWO CONDUITS.

SEMI-ENCASEMENT IS REQUIRED FOR PORTIONS OF TRENCH WITH ONLY THREE OR FOUR CONDUITS

FULL ENCASEMENT IS REQUIRED FOR PORTIONS OF THE TRENCH WITH MORE THAN FOUR CONDUITS.

D18: 03/22/24

CONSTRUCTION NOTES:

UNLESS OTHERWISE SPECIFIED ON THE WORKING DRAWING WHICH FORMS A PART OF THE SPECIFICATION, THE CONTRACTOR/DEVELOPER SHALL FURNISH THE FOLLOWING ITEMS AT NO COST TO THE EDISON COMPANY.

SOUTHERN CALIFORNIA EDISON COMPANY HAS ATTEMPTED TO CORRECTLY SHOW ALL EXISTING UTILITIES AND SUBSTRUCTURES IN THE VICINITY OF THE WORK, BUT DOES NOT GUARANTEE THERE ARE NO OTHER SUBSTRUCTURES IN THE AREA. FAILURE OF SCE TO SHOW ALL SUBSTRUCTURES IN THEIR CORRECT LOCATION WILL NOT BE A BASIS FOR A CLAIM FOR EXTRA WORK, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO SUBSTRUCTURES WHETHER SHOWN OR NOT.

1. FOR GENERAL SPECIFICATIONS SEE UGS GI 001.

2. CONDUIT:
   a. MINIMUM COVER IN STREET OR PARKWAY IS 24" BELOW GUTTER GRADE, UNLESS NOTED OTHERWISE.
   b. MINIMUM COVER ON PRIVATE PROPERTY IS 24" BELOW FINISHED GRADE, UNLESS NOTED OTHERWISE.
   c. CONTRACTOR IS TO FURNISH AND INSTALL APPROVED CONDUIT TO EDISON SPECIFICATIONS PER UGS CD 100.1, 110 AND 120.
   d. FOR THE TYPE OF CONDUIT FOR THIS JOB, SEE UGS CD 110.1.
   e. INSTALL ALL RISERS PER UGS CD 160, 161, 162 AND 170.
   f. CAP ALL MAINLINE CONDUITS PER UGS CD 148 AND SERVICE CONDUITS PER UGS CD 150.
   g. INSTALL BLANK CONDUIT PLUGS IN ALL CONDUITS TERMINATING INTO VAULTS, MANHOLE'S, PMH'S, SOE'S & ALL CAP LOCATIONS, PER UGS CD 180.1 & UGS CD 180.2
   h. INSTALL PULL ROPE IN ALL CONDUIT RUNS. PULL ROPE TO BE AT LEAST 3/8" POLYPROPYLENE ROPE, BRAIDED OR TWISTED. FOR SPECIFICATIONS, APPROVED MAKES, AND SUPPLIERS, SEE UGS GI 040.
   i. ALL CONDUIT MUST BE MANDRELED WITH THE APPROVED MANDREL UGS CD 197.

3. CONDUIT RADIUS REQUIREMENTS:
   a. THE MINIMUM RADIUS FOR BENDS ARE:
      36" FOR CONDUITS 3" IN DIAMETER OR SMALLER
      48" FOR CONDUITS 4" AND 5" IN DIAMETER
      60" FOR 6" DIAMETER CONDUIT
   b. THE MINIMUM RADIUS FOR ALL SWEEPS OF ALL MAINLINE CONDUITS IS 12'-6" (UNLESS NOTED OTHERWISE).

4. EXCAVATION AND BACKFILL:
   a. WORK AREA SHALL BE CLEARED AND ROUGH GRADED TO WITHIN FOUR INCHES OF FINAL GRADE PRIOR TO INSTALLATION OF EDISON CONDUIT OR STRUCTURES.
   b. ALL EXCAVATIONS SHALL BE IN ACCORDANCE WITH THE CALIFORNIA STATE CONSTRUCTION SAFETY ORDERS (WHEN APPLICABLE), EDISON SPECIFICATIONS, AND ALL GOVERNING LOCAL ORDINANCES.
   c. EACH TRENCH TO BE A UNIFORM DEPTH BELOW FINAL GRADE PRIOR TO INSTALLATION OF EDISON CONDUIT OR STRUCTURES.
   d. BACKFILL SHALL BE PROVIDED BY THE CONTRACTOR FOR ALL EXCAVATIONS AND SHALL INCLUDE CRUSHED ROCK, CONCRETE, AND/OR IMPORTED BACKFILL, WHEN REQUIRED.
   e. BACKFILL WITH A MINIMUM OF ONE SACK PER YARD SAND CEMENT SLURRY AROUND AND OVER VAULTS AND MANHOLES PER UGS GI 030, SECTION 6.4 AND AROUND PMH'S WITHIN ONE FOOT OF FINISHED GRADE, PER UGS SS 590.1.
   f. BACKFILL, PER EDISON SPECIFICATIONS, SHALL IMMEDIATELY FOLLOW CONDUIT OR SUBSTRUCTURE INSTALLATION. AT NO TIME SHALL CONDUIT BE LEFT EXPOSED OVER 24 HOURS.
   g. NO ROCKS ARE ALLOWED WITHIN 12 INCHES OF DIRECT-BURIED CABLES OR ANY CONDUIT WITHOUT CONCRETE ENCASEMENT. NATIVE BACKFILL CAPABLE OF PASSING THROUGH A ONE-HALF INCH MESH SCREEN SHALL BE CONSIDERED TO BE "ROCK FREE". IF EXISTING BACKFILL DOES NOT PASS THROUGH A 1/2" SCREEN, PLACE IMPORTED SAND 3" BELOW AND 12" ABOVE EDISON CABLES. AFTER THIS POINT, NO ROCKS LARGER THAN 12" DIAMETER ARE PERMITTED.
   h. ALL BACKFILL SHALL BE COMPACTED TO MEET OR EXCEED LOCAL ORDINANCES OR OTHER REQUIREMENTS. IT SHALL BE PLACED IN A MANNER THAT WILL NOT DAMAGE THE CONDUIT OR SUBSTRUCTURE OR ALLOW FUTURE SUBSIDENCE OF THE TRENCH OR STRUCTURES.

5. PAVING:
   REPAVING, WHERE REQUIRED, SHALL BE PLACED IN SUCH A MANNER THAT INTERFERENCE WITH TRAFFIC, INCLUDING PEDESTRIAN TRAFFIC, WILL BE KEPT TO A MINIMUM. THE CONTRACTOR SHALL ESTABLISH A PROGRAM OF REPAVING ACCEPTABLE TO THE MUNICIPALITY, COUNTY, OR OTHER AUTHORITY HAVING JURISDICTION AND WHICH IS ACCEPTABLE TO EDISON.

6. STRUCTURES:
   a. ALL SUBSTRUCTURES SHALL BE CONSTRUCTED OR INSTALLED TO EDISON SPECIFICATIONS.
   b. INSTALL PROTECTION BARRIERS PER UGS MS 830 WHEN REQUIRED IN AREAS EXPOSED TO TRAFFIC, PER EDISON INSPECTOR.
   c. ALL CONDUIT LINES AND CONCRETE FLOORED SUBSTRUCTURES SHALL BE WATER TIGHT.
   d. ALL GROUNDING MATERIALS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

7. RETAINING WALLS:
   WHEN REQUIRED, RETAINING WALLS SHALL BE PROVIDED BY THE DEVELOPER. WALLS ARE REQUIRED WHEREVER GRADE RISES MORE THAN 18 INCHES ABOVE THE STRUCTURE OR 24" ABOVE THE PAD SURFACE AT A DISTANCE OF 5 FEET FROM THE SAME, OR IN AREAS SUBJECT TO EROSION. DESIGN AND INSTALLATION MUST COMPLY WITH LOCAL BUILDING ORDINANCES. REFER TO EDISON INSPECTOR FOR TYPICAL SPACE REQUIREMENTS.

8. PERMITS:
   ALL PERMITS NECESSARY FOR EXCAVATION SHALL BE PROVIDED BY THE CONTRACTOR/DEVELOPER.

9. ACCESS:
   HEAVY TRUCK ACCESS SHALL BE MAINTAINED TO EQUIPMENT LOCATIONS. STRUCTURES MUST BE CLEAR OF ALL APPURTENANCES THAT WOULD OBSTRUCT THE LOADING OR UNLOADING OF EQUIPMENT.

10. SERVICES:
    a. METERS AND SERVICES SHALL COMPLY WITH EDISON ELECTRICAL SERVICES REQUIREMENTS.
    b. WIRING MUST BE IN ACCORDANCE WITH APPLICABLE LOCAL ORDINANCES AND APPROVED BY LOCAL INSPECTION AUTHORITIES.

11. LOCATION:
    a. THE LOCATION OF EXCAVATIONS AND STRUCTURES FOR EDISON SHALL BE AS SHOWN ON THE WORKING DRAWING. NO DEVIATION FROM THE PLANNED LOCATIONS WILL BE PERMITTED UNLESS APPROVED BY THE EDISON INSPECTOR. SEE UGS GI 001, SECTION 2.2.
    b. ACTUAL LOCATION OF OBSTRUCTIONS, STORM DRAINS, AND/OR OTHER FOREIGN UTILITIES TO BE THE RESPONSIBILITY OF THE CONTRACTOR. SEE UGS GI 001, SECTION 2.3.

12. CONTRACTOR IS TO VERIFY LOCATION AND WIDTHS OF ALL SIDEWALKS AND DRIVEWAYS PRIOR TO STREET LIGHT INSTALLATION. SEE UGS CD 175.1, UGS CD 175.2 AND UGS CD 175.3.

13. SURVEY:
    SURVEYING OF STREET IMPROVEMENTS, PROPERTY CORNERS, LOT LINES, FINISHED GRADE, ETC., NECESSARY FOR THE INSTALLATION OF UNDERGROUND FACILITIES MUST BE COMPLETED AND MARKERS OR STAKES PLACED PRIOR TO THE START OF THE INSTALLATION. IN ADDITION, DEVELOPER SHALL MAINTAIN THE MARKERS DURING THE INSTALLATION AND INSPECTION BY EDISON. GRADE AND PROPERTY LINE STAKES MUST SHOW ANY OFFSET MEASUREMENTS.

14. COORDINATION AND SUPERVISION:
    THE DEVELOPER SHALL PROVIDE SUPERVISION OVER AND COORDINATION AMONG THE VARIOUS CONTRACTORS WORKING WITHIN THE DEVELOPMENT IN ORDER TO PREVENT DAMAGE TO EDISON FACILITIES. HE IS RESPONSIBLE FOR THE COST OF REPAIRS, REPLACEMENT, RELOCATION, OR OTHER CORRECTIONS TO EDISON FACILITIES MADE NECESSARY BY HIS FAILURE TO PROVIDE SUPERVISION OR TO OTHERWISE COMPLY WITH THESE SPECIFICATIONS.

15. TELEPHONE AND OTHER UTILITY REQUIREMENTS:
    THE DRAWING PREPARED FOR THIS JOB MAY ALSO COVER THE FACILITIES TO BE INSTALLED FOR THE TELEPHONE COMPANY AND/OR OTHER UTILITY. ANY QUESTIONS CONCERNING DETAILS OF THEIR INSTALLATION SHOULD BE REFERRED TO THE COMPANY CONCERNED.

16. OWNERSHIP:
    DEVELOPER IS TO DEED TO THE EDISON COMPANY ALL STRUCTURES SHOWN HEREON EXCEPT THOSE SHOWN AS CUSTOMER OWNED.

17. WARRANTY:
    APPLICANTS EXPRESSLY REPRESENT AND WARRANT THAT ALL WORK PERFORMED AND ALL MATERIAL USED IN MEETING APPLICANTS' OBLIGATIONS HEREIN ARE FREE FROM DEFECTS IN WORKMANSHIP AND ARE IN CONFORMITY WITH SOUTHERN CALIFORNIA EDISON COMPANY'S REQUIREMENTS. THIS WARRANTY SHALL COMMENCE UPON RECEIPT BY APPLICANTS OF COMPANY'S FINAL ACCEPTANCE AND SHALL EXPIRE ONE YEAR FROM THAT DATE. APPLICANTS AGREE TO PROMPTLY CORRECT TO THE COMPANY'S SATISFACTION AND THAT OF ANY GOVERNMENTAL AGENCY HAVING JURISDICTION AND AT APPLICANT'S EXPENSE ANY BREACH OF THIS WARRANTY WHICH MAY BECOME APPARENT THROUGH INSPECTION OR OPERATION OF UNDERGROUND ELECTRIC SYSTEM BY COMPANY DURING THIS WARRANTY PERIOD.

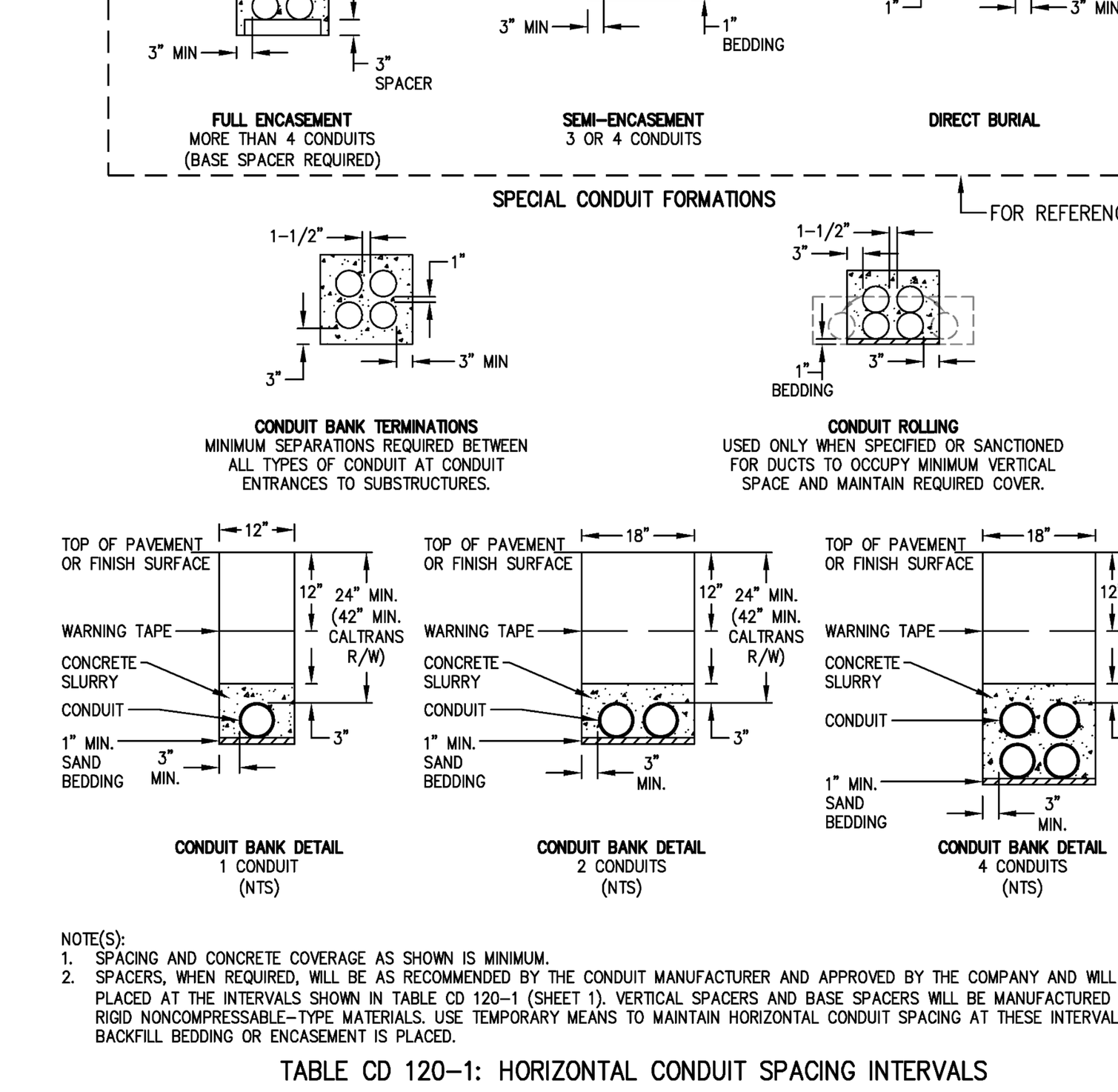
18. INSPECTION:
    INSPECTION IS REQUIRED DURING THE CONSTRUCTION PERIOD. A 48 HOUR ADVANCE NOTICE OF INTENT TO START CONSTRUCTION IS REQUIRED FROM THE CONTRACTOR TO THE SOUTHERN CALIFORNIA EDISON COMPANY. STANDARDS OF EDISON CONSTRUCTION REQUIREMENTS ARE AVAILABLE UPON REQUEST.

DUCT AND STRUCTURE INSPECTOR: PHONE:

CABLING CONSTRUCTION COORDINATOR: PHONE:

D05: 02/09/26

TYPICAL CONDUIT BANK SECTIONS (MAINLINE AND COMMERCIAL/INDUSTRIAL)
SEE UGS CD 120



NOTE(S):
1. SPACING AND CONCRETE COVERAGE AS SHOWN IS MINIMUM.
2. SPACERS, WHEN REQUIRED, WILL BE AS RECOMMENDED BY THE CONDUIT MANUFACTURER AND APPROVED BY THE COMPANY AND WILL BE PLACED AT THE INTERVALS SHOWN IN TABLE CD 120-1 (SHEET 1). VERTICAL SPACERS AND BASE SPACERS WILL BE MANUFACTURED FROM RIGID NONCOMPRESSABLE-TYPE MATERIALS. USE TEMPORARY MEANS TO MAINTAIN HORIZONTAL CONDUIT SPACING AT THESE INTERVALS UNTIL BACKFILL BEDDING OR ENCASEMENT IS PLACED.

TABLE CD 120-1: HORIZONTAL CONDUIT SPACING INTERVALS

CONDUIT SIZE	2"	3"	3-1/2"	4"	5"	6"
SPACING WITH ENCASEMENT	10'	10'		10'		
SPACING WITH NONENCASEMENT	10'	8'		6'		

3. BASE SPACERS ARE REQUIRED ON ALL BANKS OF MORE THAN FOUR CONDUITS.
4. THE CONDUIT WILL BE OF AN APPROVED MAKE AND MANUFACTURE AS SET FORTH IN STANDARDS CD 115.
5. TYPES:
   A. "EB" (TYPE I) FOR ENCASED AND SEMI-CASED INSTALLATIONS
   B. "DB" (TYPE II) FOR DIRECT BURIAL
   C. "SCH. 40" RIGID PVC FOR INSIDE BORE CASINGS
6. FOR GENERAL CONDUIT BANK, CONCRETE, AND TRENCHING REQUIREMENTS, SEE CD 100.
7. INSTALL BARE COPPER NEUTRAL WIRE ONLY WHEN SPECIFIED ON WORKING DRAWING. FOR MAINLINE APPLICATIONS (INCLUDING 4-WIRE TAPLINES) WHEN THE NEUTRAL IS PRESENT ON AN OVERHEAD STRUCTURE THAT FEEDS A PRIMARY RISER, THE NEUTRAL SHALL BE CONTINUOUS TO THE FIRST UNDERGROUND STRUCTURE. A BARE COPPER NEUTRAL WIRE, AS SPECIFIED ON THE WORKING DRAWING, SHALL BE PLACED, AND FULLY ENCASED IN CONCRETE, AT THE LOWER REGION OF THE DUCT BANK, PREFERABLY IN-BETWEEN CONDUITS.
8. CONCRETE ENCASEMENT WILL BE KEPT UNIFORM. EXCESSIVE AMOUNTS OF CONCRETE WILL BE AVOIDED.
9. BEDDING WILL BE IN ACCORDANCE WITH CD 100.
10. TWO STRIPS OF DETECTABLE WARNING TAPES SHALL BE INSTALLED, SPACED EVENLY ACROSS THE WIDTH OF THE TRENCH AND POSITIONED 12 INCHES ABOVE THE CONDUIT. THIS INSTALLATION SERVES TO ALERT THIRD PARTIES DIGGING NEAR SCE ELECTRICAL FACILITIES AND ASSISTS WITH UTILITY MARKING. THE TAPE HELPS IDENTIFY SCE FACILITIES IN CASES WHERE THIRD-PARTY CONTRACTORS HAVE NOT CONTACTED DIG ALERT.
11. THE AUTHORITY HAVING JURISDICTION MAY REQUIRE CONDUIT TO BE COVERED BY MORE THAN 24 INCHES.

D70: 11/14/25

CUSTOMER-OWNED CONDUIT MATERIAL* AND CONCRETE ENCASEMENT ARE TO BE INSTALLED IN ACCORDANCE WITH EDISON ELECTRICAL SERVICE REQUIREMENTS.

*SUBJECT TO APPROVAL BY LOCAL INSPECTION AUTHORITIES

D14: 03/22/24

SCE Inspection
Contact SCE 48 Hours in advance for a Pre-Construction meeting and/or Inspection.
Email: NDPFCS@SCE.COM

D50: Rev. 05/17/21

WHERE CONDUITS ARE PICKED UP OR INTERCEPTED, CONDUIT SHALL BE MANDRELLED AND PULL ROPE INSTALLED FROM TERMINAL TO TERMINAL.

D07: 03/22/24

NOTE:
ALL ELECTRICAL DUCTS AND STRUCTURES WILL CONFORM TO GENERAL ORDER #128 (RULES FOR CONSTRUCTION OF UNDERGROUND ELECTRICAL SUPPLY AND COMMUNICATION PRESCRIBED BY THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA, JANUARY 2006).

D06: 03/22/24

CONNECTING TO EXISTING SCE STRUCTURES

- PER SCE REQUIREMENTS, CUSTOMERS ARE NOT ALLOWED TO ENTER, INTERCEPT OR TIE-IN TO EXISTING SCE FACILITIES; E.G. STRUCTURES, EQUIPMENT, MULTI-CONDUIT RUNS/BANKS, OR CONDUCTORS. THESE FACILITIES MAY BE ENERGIZED AND THE WORK WILL ONLY BE PERFORMED BY SCE. CONTACT THE APPROPRIATE SCE INSPECTOR TO SCHEDULE AN APPOINTMENT. CUSTOMERS MAY CONNECT TO AN EXISTING CONDUIT STUB WITHOUT A SCE INSPECTOR PRESENT.
- MULTI-CONDUIT RUNS/BANKS ARE RUNS OF CONDUIT IN CLOSE PROXIMITY TO EACH OTHER AND OTHER SCE FACILITIES. A CONDUIT STUB IS A SINGLE EMPTY CONDUIT STUB THAT IS NOT IN CLOSE PROXIMITY TO OTHER SCE OWNED FACILITIES. REFER TO THE WORK ORDER MAP FOR DETAILS.
- PER CPUC/SCE'S RULE 15 B.1.A AND RULE 16 D.1.A., THE CUSTOMER WILL PROVIDE ALL NECESSARY EXCAVATIONS (WITH THE EXCEPTION OF EXCAVATION UNDER PADS AND PRIMARY SPLICE BOXES), MATERIAL (INCLUDING CONDUIT AND STRUCTURES) AND ENCASEMENT, TO BE UTILIZED IN THE INTERCEPT/TIE-IN PROCESS.
- THE CUSTOMER MUST ADHERE TO ALL APPLICABLE CAL-OSHA, LOCAL, CITY, STATE AND FEDERAL REGULATIONS, (INCLUDING, BUT NOT LIMITED TO, ALL NECESSARY SHORING AND TRAFFIC CONTROL IN PLACE TO PERFORM THE INTERCEPT/TIE-IN WORK BY SCE'S UNDERGROUND CIVIL CONTRACTOR(S)).
- INTERCEPT/TIE-IN WORK MUST BE COORDINATED WITH SCE'S CIVIL CONTRACTORS THROUGH THE DIVISION INSPECTOR/P-SPEC TO LIMIT EXPOSURE OF EXCAVATION(S). CUSTOMER IS RESPONSIBLE FOR SECURING EXCAVATION(S).

D08: 12/12/24

TIE-IN MADE THROUGH SIDE WALL OF STRUCTURE
(VAULT, MANHOLE, PME, SOE/CST, BURD, SLAB BOX, PULL BOX, PMH)
THE CUSTOMER IS RESPONSIBLE TO TRENCH TO THE STRUCTURE ENTRANCE POINT AND BRING THE CONDUIT TO WITHIN 5' OF THE STRUCTURE BEING ENTERED. THE CUSTOMER IS TO PROVIDE SLIP COUPLING AND CONDUIT.

D09: 03/22/24

NOTE(S):
1. FOR GENERAL CONDUIT BANK REQUIREMENTS, INCLUDING TRENCHING, BEDDING, CONCRETE ENCASEMENT, AND BACKFILL/SHADING REFER TO CD 100.
2. CONDUIT SHALL BE OF AN APPROVED MAKE AND MANUFACTURE AS SET FORTH IN STANDARDS CD 115. CONDUIT TYPES ARE FOLLOWS:
   TYPE I "EB" FOR ENCASED INSTALLATIONS;
   TYPE II "DB" FOR DIRECT BURIAL;
   SCH 40 RIGID PVC FOR INSIDE BORE CASINGS.
   UNLESS OTHERWISE NOTED, CONDUIT SPACING AND CONCRETE COVER AS SHOWN IS MINIMUM.
3. CONDUIT SPACERS, BASE (SAP 10113430) AND INTERMEDIATE (SAP 10113472), ARE TO BE INSTALLED AT INTERVALS SHOWN. THESE SPACERS WILL BE MANUFACTURED FROM RIGID NONCOMPRESSIBLE-TYPE MATERIALS. USE TEMPORARY MEANS TO MAINTAIN HORIZONTAL CONDUIT SPACING AT THESE INTERVALS UNTIL BEDDING OR ENCASEMENT IS PLACED.
4. CONCRETE ENCASEMENT SHALL BE KEPT UNIFORM. EXCESSIVE AMOUNTS OF CONCRETE SHALL BE AVOIDED.
5. SAND BEDDING SHALL BE IN ACCORDANCE WITH CD 100.
6. DETECTABLE ELECTRICAL WARNING TAPE SHALL BE INSTALLED, SPACED EVENLY ACROSS THE WIDTH OF THE TRENCH, POSITIONED AT A DEPTH EQUAL TO X:
   3.1 X = PAVEMENT THICKNESS + 1 INCH FROM TOP OF THE SURFACE, FOR TRENCH LOCATED IN VEHICULAR ROADWAY.
   3.2 X = 6 INCHES FROM TOP OF THE SURFACE FOR TRENCH LOCATED IN NON-VEHICULAR ROADWAY.
   3.3 WARNING TAPE IS NOT REQUIRED WHEN OTHER UTILITIES ARE INSTALLED ABOVE SCE CONDUIT.
7. CONDUIT EDGE DISTANCE TO ENCASEMENT OR BACKFILL IS TOLERABLE UP TO 5 INCHES DEPENDING ON SOIL CONDITION.
8. BARE COPPER WIRE MAY BE INSTALLED WHEN SPECIFIED ON WORKING DRAWINGS. FOR MAINLINE APPLICATIONS (INCLUDING 4-WIRE TAPLINES) WHEN NEUTRAL IS PRESENT ON AN OVERHEAD STRUCTURES THAT FEEDS A PRIMARY RISER, THE NEUTRAL SHALL BE CONTINUOUS TO THE FIRST UNDERGROUND STRUCTURE.A BARE COPPER NEUTRAL WIRE, AS SPECIFIED ON THE WORKING DRAWINGS, SHALL BE PLACED, AND FULLY ENCASED IN CONCRETE, AT THE LOWER REGION OF THE DUCT BANK, PREFERABLY IN BETWEEN CONDUITS.
9. THE AUTHORITY HAVING JURISDICTION MAY REQUIRE CONDUIT TO BE COVERED BY MORE THAN 24 INCHES.
   EXCEPTIONS: FOR CONDUIT TRENCH DEPTH REQUIREMENTS WHEN A DUCT BANK IS INSTALLED WITHIN A VEHICULAR ROADWAY, SEE CD 100, SECTION 1.0.
10. WHEN THE NON SCE CONDUIT IS A TELECOMMUNICATIONS FACILITY AND INSTALLED CONCURRENTLY WITH SCE FACILITIES, THE MINIMUM SEPARATION OF 12 INCHES CAN BE REDUCED IN ACCORDANCE WITH GO 128.

D71: 02/09/26

PRIMARY METERING WORK ORDER

☐ ADDED FACILITIES (AF)
☐ NON-ADDED FACILITIES (NAF)
DEVICE LOCATION #: ______
TOTAL CAPACITY/DEMAND ______ kVA
PRIMARY VOLTAGE: ______ kV
SECONDARY VOLTAGE: ______ volts
(UG) NAF LINE DEVICE ID# PMC ______
CIRCUIT NUMBER: ______

D162: 05/22/24

WARNING
THE EXCAVATOR MUST TAKE ALL STEPS NECESSARY TO AVOID CONTACT WITH UNDERGROUND FACILITIES WHICH MAY RESULT IN INJURY TO PERSONS OR DAMAGE TO FACILITIES IN THE AREA. THE INDICATED LOCATIONS OF EDISON UNDERGROUND FACILITIES, AS PROVIDED, ARE BELIEVED TO BE ACCURATE, HOWEVER, THE FINAL DETERMINATION OF EXACT LOCATIONS AND THE COST OF REPAIR TO DAMAGED FACILITIES IS THE RESPONSIBILITY OF THE EXCAVATOR.

D13: 03/22/24

PROJECT REQUIREMENTS (Y/N)

Requirement	Y/N
EDISON EASEMENT REQUIRED	Y
PWRD 88 REQUIRED UG	Y
CIVIL ONLY WORK ORDER	N
PERMIT REQUIRED	Y
PERMIT TYPE: ENCROACHMENT	
OUTAGE REQUIRED	Y
OUTAGE DATE: ___ TIME: ___	
TRAFFIC CONTROL REQUIRED	N
PED. TRAFFIC CONTROL REQ'D	N
CONVEYANCE LETTER REQ'D	Y
ENVIRONMENTAL REQUIREMENTS DOCUMENT (ERD) REQUIRED	Y
CSD 140 (TLM) REQ'D	N
CIRCUIT MAP CHANGE REQ'D (TD 203)	Y
DIG ALERT APP	Y
VERIFIED ACTIVE AND CONFIRMED USA TICKETS	☐
UTILIQUEST NOTIFIED	☐
FAA MARKING REQ'D	☐
FAA TYPE: ___	
ACTUAL COST WORK ORDER	☐
STANDARD ADHERENCE: 2 Q/ 2026	Y

D124: 12/12/24

CONDUIT RADIUS REQUIREMENTS:

A: THE MINIMUM RADIUS FOR BENDS ARE:
36" FOR CONDUITS 3" IN DIAMETER OR SMALLER
48" FOR CONDUITS 4" AND 5" IN DIAMETER
60" FOR 6" DIAMETER CONDUIT
B: THE MINIMUM RADIUS FOR SWEEPS ARE:
36" FOR CONDUITS 3" IN DIAMETER OR SMALLER
12'-6" FOR CONDUITS 4" IN DIAMETER AND LARGER, UNLESS OTHERWISE NOTED.

D85: 03/22/24

UNDERGROUND SERVICE ALERT
Contact USA
Dial 811 or 800-422-4133
www.digalert.org/contact
FOR UNDERGROUND LOCATING TWO WORKING DAYS BEFORE YOU DIG

D16: 03/22/24

PRELIMINARY
NOT FOR CONSTRUCTION

DISTRICT 22 – MONTEBELLO	PROJ. MGR. MARSHALL, MICHAEL PHONE	PLANNER JOO, SIMON PHONE 213-651-7986	DESIGNER JOO, SIMON
PROJECT NO. 3217121 / SERVICE REQUEST 4094201	MSR NO.	PRODUCT-1 2534294-METER & SERVICE CHANGE	ASSOC DESGN
CIRCUIT / VOLTAGE	GPS	PRODUCT-2	ASSOC DESGN
SUB / PG NO.	CIRCUIT CODE	PRODUCT-3	ASSOC DESGN
INVENTORY MAP 146-4279-5	J.P.A. NO.	PROPOSED CONSTRUCTION (LOCATION) 4921 CEDAR AVE EL MONTE CA 91732	

TYPE	DATE	APPROVED BY	CHECKED BY	DRAWN BY	PAX #
P	7/5/26			S. JOO	

Southern California Edison Company — SHEET 1 OF 2 — DESIGN\DRWG NO. 1946404_0.01

FILE NAME:1946404_0.01.DWG SAVE DATE:8/13/2026 9:45 AM SAVED BY:JOOS1

HMC DESIGN FOR GOOD Architects
3361-008-103
633 W. 5TH STREET, THIRD FLOOR,
LOS ANGELES, CA, 90071
213 542 8300 / www.hmcarchitects.com

ISSUE

Δ	DESCRIPTION	DATE
	DSA SUBMITTAL	03/04/26
1	DSA BACK CHECK	10/19/26

KEYNOTES

NOTES

REGISTERED PROFESSIONAL ENGINEER VALERIA BALDERRAMOS E21403 Exp 03/31/28 ELECTRICAL STATE OF CALIFORNIA

GLUMAC
A TETRA TECH COMPANY
707 Wilshire Blvd., Suite 1550
Los Angeles, CA 90017
www.glumac.com
T. 213.239.8866
Project Manager:
Job. No.:

FACILITY:
4921 Cedar Ave
El Monte, CA 91732

PROJECT:
EMUSD ARROYO HS - CAMPUS WIDE ELECTRICAL UPGRADE

SHEET NAME:
SCE PRELIMINARY DESIGN (FOR REFERENCE ONLY)

100% CONSTRUCTION DOCUMENTS

BID SET

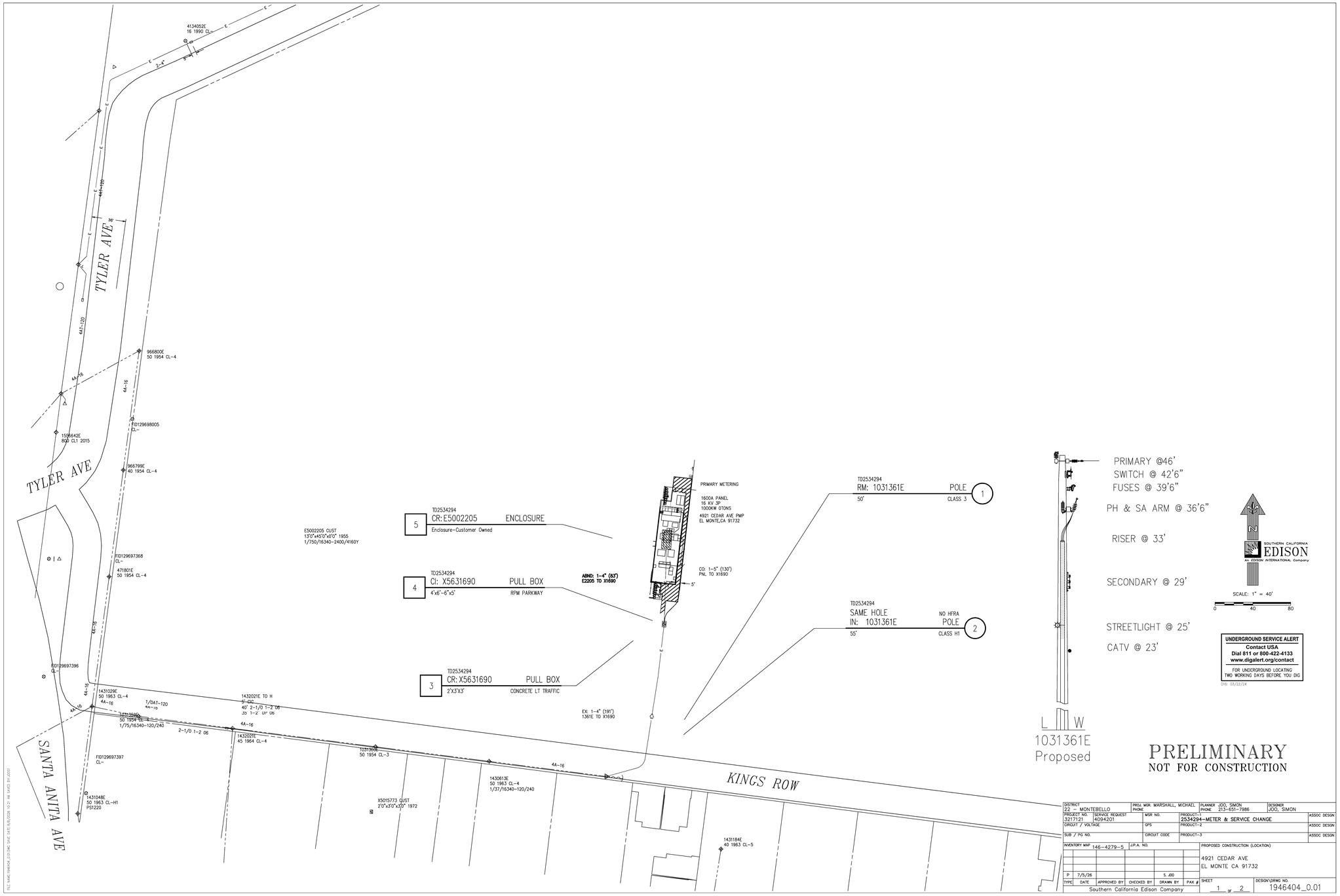
DATE: **2026.10.19** CLIENT PROJ NO: **3361-008-103**

SHEET:
E9.04

PLEASE RECYCLE

Autodesk Docs://3361008103 EMUSD Arroyo Electrical Upgrades Pkg5 R26/3361008103-E-SITE.rvt
10/14/2026 12:16:44 PM

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



DISTRICT: 22 – MONTEBELLO		PROJ. MGR. MARSHALL, MICHAEL PHONE		PLANNER JOO, SIMON PHONE 213-651-7986	DESIGNER JOO, SIMON
PROJECT NO. 3217121	SERVICE REQUEST 14094201	MSR NO.	PRODUCT-1 2534294–METER & SERVICE CHANGE		ASSOC DESIGN
CIRCUIT / VOLTAGE		GPS	PRODUCT-2		ASSOC DESIGN
SUB / PQ NO.		CIRCUIT CODE	PRODUCT-3		ASSOC DESIGN
INVENTORY MAP 146-4279-5		J.P.A. NO.	PROPOSED CONSTRUCTION (LOCATION) 4921 CEDAR AVE EL MONTE CA 91732		
P 7/5/26		S. JOO			
TYPE DATE	APPROVED BY	CHECKED BY	DRAWN BY	PAX #	SHEET 1 of 2
Southern California Edison Company					DESIGN\DRWG NO. 1946404_0.01

KEYNOTES

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	DSA SUBMITTAL	03/04/26
1	DSA BACK CHECK	10/19/26

REGISTERED PROFESSIONAL ENGINEER — VALERIA BALDERRAMA — E21403 Exp 03/31/28 — ELECTRICAL — STATE OF CALIFORNIA

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DATE: **2026.10.19** | CLIENT PROJ NO: **3361-008-103**

SHEET:

E9.05

BID SET

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