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

EL MONTE UNION HIGH SCHOOL DISTRICT

EL MONTE HIGH SCHOOL TRACK AND FIELD

EXISTING TRACK AND FIELD REPLACEMENT

3048 TYLER AVE
EL MONTE, CA 91731

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122306 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/27/2023

HMC Architects

3361004000

3546 CONCOURS STREET
ONTARIO, CA 91764
909 989 9979 / www.hmcarchitects.com

LICENSED ARCHITECT
VIRGINIA
ELAINE
MARQUARDT
No. C-33423
Virginia E Marquardt
06/30/2025
RENEWAL DATE
STATE OF CALIFORNIA

PROJECT TEAM

OWNER
EL MONTE UHSD
3537 JOHNSON AVENUE EL MONTE, CA 91731
(626)444-9005

ARCHITECT
HMC ARCHITECTS
3546 CONCOURS STREET ONTARIO, CA 91764
(909)989-9979

CIVIL
FPL AND ASSOCIATES, INC.
30 CORPORATE PARK, SUITE 401 IRVINE, CA 92606
(949)252-1688

LANDSCAPE
SILVER BAR STUDIO
P.O. BOX 5008-373 MARIPOSA, CA 95338
(714)928-5107

PLUMBING, ELECTRICAL
PBS ENGINEERS
2100 E ROUTE 66, SUITE 210 GLENDORA, CA 91740
(626)650-0350

FACILITY:
EL MONTE HIGH SCHOOL
3048 TYLER AVE
EL MONTE, CA 91731

PROJECT:
EL MONTE HIGH SCHOOL TRACK AND FIELD
EXISTING TRACK AND FIELD REPLACEMENT

SHEET NAME:
COVER SHEET

CONSTRUCTION DOCUMENTS

DATE **07.11.2023**
CLIENT PROJ NO:

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PLEASE RECYCLE ♲

THE LINE SHOWN ABOVE IS 1" LONG WHEN PLOTTED AT FULL SIZE. IF NOT, SHEET IS ORIGINAL PAGE SIZE

GENERAL NOTES

1. CONSTRUCTION DOCUMENTS DESCRIBE THE PRODUCTS, SYSTEMS, QUANTITIES, CONFIGURATION, AND PERFORMANCE SPECIFICATIONS THAT DELIVER THE OVERALL DESIGN INTENT OF THE PROJECT.
2. THE CONSTRUCTION DOCUMENT DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY BOTH.
3. PERFORMANCE BY THE CONSTRUCTION TEAM SHALL BE CONSISTENT WITH THE CONSTRUCTION DRAWINGS AND SPECIFICATIONS AS NECESSARY TO DELIVER THE INDICATED RESULTS OF THE DESIGN INTENT.
4. VERIFY ALL DIMENSIONS, LOCATIONS OF EXISTING UTILITIES, AND CONDITIONS ON THE JOB SITE PRIOR TO THE START OF WORK OR PORTIONS OF THE WORK. NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN THE ACTUAL FIELD CONDITIONS AND THE CONSTRUCTION DOCUMENTS. EXISTING CONDITIONS ARE INDICATED AS A RESULT OF FIELD OBSERVATIONS, INFORMATION SHOWN ON AVAILABLE DOCUMENTS AND FIELD CONDITIONS AT THE TIME OF PREPARATION.
5. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH ALL GOVERNING CODES, ORDINANCES, REGULATIONS AND LAWS.
6. THE DESIGN ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS AND SCAFFOLDING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
7. WHERE ANY CONFLICT OCCURS BETWEEN THE REQUIREMENTS OF LAWS, CODES, ORDINANCES, RULES AND REGULATIONS, THE MOST STRINGENT SHALL GOVERN.
8. IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS OR DETAILS ON THE DRAWINGS.
9. DETAILS MARKED 'TYPICAL' SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY NOTED OTHERWISE.
10. ENACT ALL MEASURES TO PROTECT AND SAFEGUARD ALL EXISTING ELEMENTS TO REMAIN FROM BEING DAMAGED. REPLACE OR REPAIR EXISTING ELEMENTS DAMAGED BY THE EXECUTION OF THIS CONTRACT TO EQUAL OR BETTER CONDITION.
11. PRIOR TO THE START OF WORK THE CONTRACTOR SHALL COORDINATE BETWEEN THE REQUIREMENTS OF ALL DISCIPLINES HEREIN AND BETWEEN THE REQUIREMENTS OF ALL DRAWINGS AND SPECIFICATIONS IN ORDER THAT ALL ITEMS SATISFACTORILY RELATE TO ONE ANOTHER. NOTIFY ARCHITECT IMMEDIATELY REGARDING ANY ITEMS THAT CANNOT BE COORDINATED.
12. CONTRACTOR SHALL EXCERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID EXISTING DUCTS, PIPING, CONDUIT, ETC. AND TO PREVENT HAZARD TO PERSONNEL AND/OR TO EXISTING UNDERGROUND UTILITIES OR STRUCTURES. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.
13. CHANGES TO THE APPROVED DRAWINGS AND/OR SPECIFICATIONS SHALL BE MADE BY ADDENDA OR A CONSTRUCTION CHANGE DOCUMENT.
14. CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH THE EXISTING OR NEW STRUCTURAL ELEMENTS SHALL NOT TO BE STARTED UNTIL THE DETAILS HAVE BEEN REVIEWED AND APPROVED BY THE ARCHITECT, AND STRUCTURAL ENGINEER OF RECORD.
15. ALL WORK SHALL CONFORM TO 2019 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
16. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION OF 4-388, PART 1, TITLE 24, CCR.
17. A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24 CCR.
18. A DSA - CERTIFIED CLASS 3 PROJECT INSPECTOR IS REQUIRED FOR THIS PROJECT
19. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT
20. THE INTENT OF THESE DRAWINGS AND SPECIFICTIONS 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 CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPERATE 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).
21. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES

CODES

PARTIAL LIST OF APPLICABLE CODES

2019	CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 C.C.R.
2019	CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R. (2018 INTERNATIONAL BUILDING CODE VOLUMES 1 & 2 AND 2016 CALIFORNIA AMENDMENTS)
2019	CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. (2017 NATIONAL ELECTRICAL CODE AND 2019 CALIFORNIA AMENDMENTS)
2019	CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R. (2018 IAPMO UNIFORM PLUMBING CODE AND 2019 CALIFORNIA AMENDMENTS)
2019	CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.
2019	CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 C.C.R. (2018 INTERNATIONAL FIRE CODE AND 2019 CALIFORNIA AMENDMENTS)
2019	CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 CCR (2018 INTERNATIONAL EXISTING BUILDING CODE AND 2019 CALIFORNIA AMENDMENTS)
2019	CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 C.C.R.
2019	CALIFORNIA REFERENCED STANDARDS CODE, PART 12,TITLE 24 C.C.R. TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
2010	ADA STANDARDS FOR ACCESSIBLE DESIGN

PARTIAL LIST OF APPLICABLE STANDARDS

NFPA 72	NATIONAL FIRE ALARM & SIGNALING CODE (CA AMENDED) -	2016 ED
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(R2012)

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2019 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE (CFC) CHAPTER 80.

SEE CALIFORNIA BUILDING CODE, CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO NFPA STANDARDS.

STATEMENT OF GENERAL CONFORMANCE

(x) THE DRAWINGS OR SHEETS LISTED ON THE INDEX SHEET WHICH ARE INDICATED WITH AN *
( ) THIS DRAWING PAGE OF SPECIFICATIONS/CALCULATIONS

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

1) DESIGN INTENT AND APPEARS TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME, AND
2) COORDINATION WITH MY PLANS AND SPECIFICATIONS AND IS ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT.

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

I CERTIFY THAT:

THE INDEX SHEETS WHICH ARE INDICATED WITH AN * ARE IN GENERAL CONFORMANCE WITH THE PROJECT DESIGN INTENT, AND THEY HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS

Virginia E Marquardt
SIGNATURE
ARCHITECT OR ENGINEER DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE

VIRGINIA ELAINE MARQUARDT
PRINT NAME

C-33423
LICENSE NUMBER

06-30-23
EXPIRATION DATE

03/28/2022
DATE

LICENSED ARCHITECT
VIRGINIA ELAINE MARQUARDT
No. C-33423
Virginia E Marquardt
06/30/2025
RENEWAL DATE
STATE OF CALIFORNIA

PROJECT DESCRIPTION

THE SCOPE OF WORK INCLUDES THE FOLLOWING:

DEMOLITION SCOPE OF WORK AT THE EXISTING TRACK AND FIELD STADIUM IS AS FOLLOWS:

- DEMO EXISTING TRACK SURFACE
- DEMO EXISTING NATURAL TURF FOOTBALL/SOCCER FIELD AND RELATED IRRIGATION
- DEMO EXISTING SCOREBOARD & FLAG POLE
- DEMO EXISTING HARDSCAPE/SITE WALLS, LANDSCAPE AND IRRIGATION IN AREAS IDENTIFIED IN THE DESIGN DOCUMENTS

THE SCOPE OF WORK AT THE NEW TRACK AND FIELD STADIUM IS AS FOLLOWS:

- NEW SYNTHETIC TURF FIELD AND RUBBERIZED RUNNING TRACK
- NEW SCOREBOARD
- STANDARD FIELD ELECTRICAL
- NEW FLAGPOLE AND FOOTING
- NEW GROUND MOUNTED UPLIGHTING TO LIGHT EXISTING MURAL
- NEW GOAL POST AND FOOTING
- NEW CHAINLINK FENCE AND GATES, AS NOTED
- EXTENSION TO EXISTING RETAINING WALL
- NEW GUARDRAILS AT EXISTING DRINKING FOUNTAINS
- SITE IMPROVEMENTS INCLUDE: WALKWAYS, UTILITIES, LANDSCAPING, IRRIGATION, NEW SLURRY COAT & RESTRIPE ACCESSIBLE PARKING AREAS, NEW ORNAMENTAL GATE AND FENCES

PROJECT DATA

PROJECT ADDRESS:

EL MONTE HIGH SCHOOL
3048 TYLER AVE.
EL MONTE, CA 91731

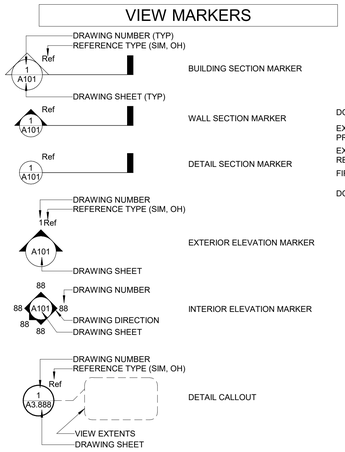
OCCUPANCY TYPE:

REFER TO SITE PLANS FOR ADDITIONAL INFO.

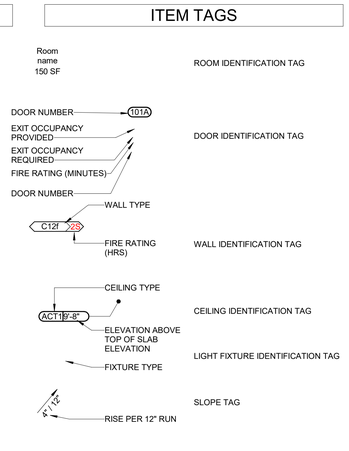
SHEET INDEX

SYMBOL LEGEND

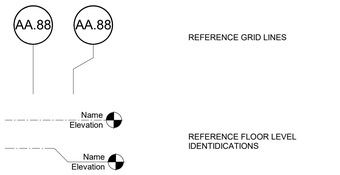
VIEW MARKERS



ITEM TAGS



DRAWING SYMBOLS



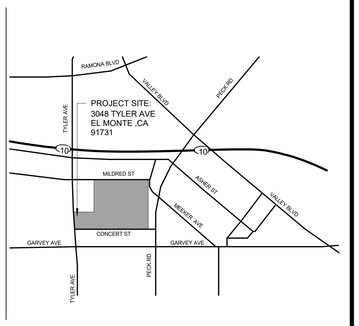
ABBREVIATIONS

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

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

STATE MAP

VICINITY MAP



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909 989 9979 / www.hmcarchitects.com

LICENSED ARCHITECT
VIRGINIA ELAINE MARQUARDT
No. C-33423
Virginia E Marquardt
06/30/2025
RENEWAL DATE
STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

FACILITY:
EL MONTE HIGH SCHOOL
3048 TYLER AVE
EL MONTE, CA 91731

PROJECT:
EL MONTE HIGH SCHOOL TRACK AND FIELD
EXISTING TRACK AND FIELD REPLACEMENT

SHEET NAME:
PROJECT DATA SHEET

CONSTRUCTION DOCUMENTS

FAC NO.: XXXXX | BLDG NO.: BLD-XXXXX

DATE 07.11.2023 | CLIENT PROJ NO:

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PLEASE RECYCLE

Prepared by HMC Architects to comply with:

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

Division of the State Architect – Structural Safety (DSA-SS)
(CCR, Title 24, Part 11)

For the
El Monte High School Track and Field Project
3048 Tyler Avenue, El Monte, CA 91732

Project Team: HMC (Architects), FPL and Associates, Inc. (Civil), Silver Bar Studio (Landscape), PBS Engineers (Electrical), PBS Engineers (Plumbing)

	APPLICATION MATRIX	Mandatory Chapter 5	Complying Sheet or Specification
	DIVISION 3 - GREEN BUILDINGS		
	GENERAL		
	301.1 Scope Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the application checklists and may be included in the design and construction of structures covered by this code, but are not required unless adopted by a city, county, or city and county as specified in Section 101.7.		
	301.4 Mandatory measures for public schools and community colleges [DSA-SS] New building construction and site work on a new or existing site shall comply with Section 301.4.	☐	N/A
	MIXED OCCUPANCY BUILDINGS		
	302.1 Mixed occupancy buildings In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy. **Exceptions:** 1. [HCD] Accessory structures and accessory occupancies serving residential buildings shall comply with Chapter 4 and Appendix A4, as applicable. 2. [HCD] For the purposes of CALGreen, live/work units, complying with Section 419 of the *California* Building Code, shall not be considered mixed occupancies. Live/work units shall comply with Chapter 4 and Appendix A4, as applicable.	☐	N/A
	VOLUNTARY MEASURES		

Project Team: HMC (Architects), FPL and Associates, Inc. (Civil), Silver Bar Studio (Landscape), PBS Engineers (Electrical), PBS Engineers (Plumbing)

	APPLICATION MATRIX	Mandatory Chapter 5	Complying Sheet or Specification
	306.1 Purpose For public schools and community colleges, voluntary measures further encourage building practices that improve public health, safety and general welfare by promoting the use of building concepts which minimize the building's impact on the environment, and promote a more sustainable design. **306.1.1** Appendix A5, Divisions A5.1 through A5.5, outline means of achieving enhanced sustainable design and construction by incorporating voluntary measures that exceed the mandatory measures. **306.1.2** Chapter 5 Nonresidential Mandatory Measures that are not adopted as mandatory measures by DSA-SS are voluntary measures recommended and encouraged for the design, construction, verification, and maintenance of non-energy systems. **Note:** The building commissioning requirements for energy efficiency specified in the *California Energy Code* are required.		N/A
	DIVISION 5.1 - PLANNING AND DESIGN		
	GENERAL		
	5.101.1 Scope The provisions of this chapter outline planning, design and development methods that include environmentally responsible site selection, building design, building siting and development to protect, restore and enhance the environmental quality of the site and respect the integrity of adjacent properties.		N/A
	SITE DEVELOPMENT		
	5.106.4.2 Bicycle parking For public schools and community colleges comply with Sections 5.106.4.2.1 and 5.106.4.2.2.	☐	N/A
	5.106.4.2.1 Student bicycle parking Provide permanently anchored bicycle racks conveniently accessed with a minimum of four two-bike capacity racks per new building.	☐	N/A
	5.106.4.2.2 Staff Parking Provide permanent, secure bicycle parking conveniently accessed with a minimum of two staff bicycle parking spaces per new building. Acceptable bicycle parking facilities shall be convenient from the street or staff parking area and shall meet one of the following: 1. Covered, lockable enclosures with permanently anchored racks for bicycles; 2. Lockable bicycle rooms with permanently anchored racks; or 3. Lockable, permanently anchored bicycle lockers.	☐	N/A
	5.106.5.3 Electric vehicle (EV) charging Construction shall comply with Section 5.106.5.3.1 or Section 5.106.5.3.2 to facilitate future installation of electric vehicle supply equipment (EVSE). When EVSE(s) is/are installed, it shall be in accordance with the *California Building Code*, the *California Electrical Code*.		N/A

Project Team: HMC (Architects), FPL and Associates, Inc. (Civil), Silver Bar Studio (Landscape), PBS Engineers (Electrical), PBS Engineers (Plumbing)

	APPLICATION MATRIX	Mandatory Chapter 5	Complying Sheet or Specification
ELECTRICAL	**5.106.8 Light pollution reduction** [N] Outdoor lighting systems shall be designed and installed to comply with the following: 1. The minimum requirements in the *California Energy Code* for Lighting Zones 0-4 as defined in Chapter 10, Section 10-114 of the *California Administrative Code*; and 2. Backlight (B) ratings as defined in IES TM-15-11 (shown in Table A-1 in Chapter 8); 3. Uplight and Glare ratings as defined in *California Energy Code* (shown in Tables 130.2-A and 130.2-B in Chapter 8) and 4. Allowable BUG ratings not exceeding those shown in Table 5.106.8 [N]. or Comply with a local ordinance lawfully enacted pursuant to Section 101.7, whichever is more stringent. **Exceptions: [N]** 1. Luminaires that qualify as exceptions in Section 140.7 of the *California Energy Code* 2. Emergency lighting. 3. Building facade meeting the requirements in Table 140.7-B of the *California Energy Code*, Part 6. 4. Custom lighting features as allowed by the local enforcing agency, as permitted by Section 101.8 Alternate materials, designs and methods of construction. **Notes:** 1. **[N]** See also *California Building Code*, Chapter 12, Section 1205.7 for college campus lighting requirements for parking facilities and walkways. 2. Refer to Chapter 8 (Compliance Forms, Worksheets and Reference Material) for IES TM-15-11 Table A1, *California Energy Code* Tables 130.2-A and 130.2-B. 3. Refer to the *California Energy Code* for requirements for additions and alterations. **See TABLE 5.106.8 [N]**	☒	SEE LIGHTING AND POWER PLAN
Civil	**5.106.10 Grading and paving** Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following: 1. Swales. 2. Water collection and disposal systems. 3. French drains. 4. Water retention gardens. 5. Other water measures which keep surface water away from buildings and aid in groundwater recharge. **Exception:** Additions and alterations not altering the drainage path.	☒	SEE CIVIL SHEETS
Landscape	**5.106.12 Shade trees** [DSA-SS] Shade trees shall be planted to comply with Sections 5.106.12.1, 5.106.12.2, and 5.106.12.3. Percentages shown shall be measured at noon on the summer solstice. Landscape irrigation necessary to establish and maintain tree health shall comply with Section 5.304.6.	☒	SEE LANDSCAPE SHEETS

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	APPLICATION MATRIX	Mandatory Chapter 5	Complying Sheet or Specification
	DIVISION 5.2 – ENERGY EFFICIENCY		
	GENERAL		
ELECTRICAL	**5.201.1 California Energy Code** For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory standards.	☒	
	DIVISION 5.3 - WATER EFFICIENCY AND CONSERVATION		
	GENERAL		
	5.301.1 Scope The provisions of this chapter shall establish the means of conserving water used indoors, outdoors and in wastewater conveyance.		
	INDOOR WATER USE		
	5.303.3.1 Water closets The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Tank-Type Toilets. **Note:** The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.	☐	N/A
	5.303.3.2 Urinals **5.303.3.2.1 Wall-mounted urinals** The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush. **5.303.3.2.2 Floor-mounted urinals** The effective flush volume of floor-mounted or other urinals shall not exceed 0.5 gallons per flush.	☐ ☐	N/A
	5.303.3.3 Showerheads **5.303.3.3.1 Single showerhead** Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads. **5.303.3.3.2 Multiple showerheads serving one shower** When a shower is served by more than one showerhead, the combined flow rate of all showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to allow only one shower outlet to be in operation at a time. **Note:** A hand-held shower shall be considered a showerhead.	☐	N/A

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	APPLICATION MATRIX	Mandatory Chapter 5	Complying Sheet or Specification
	5.303.3.4 Faucets and fountains **5.303.3.4.1 Nonresidential lavatory faucets** Lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi. **5.303.3.4.2 Kitchen faucets** Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per minute at 60 psi. **5.303.3.4.3 Wash fountains** Wash fountains shall have a maximum flow rate of not more than 1.8 gallons per minute/20 [rim space (inches) at 60 psi]. **5.303.3.4.4 Metering faucets** Metering faucets shall not deliver more than 0.20 gallons per cycle. **5.303.3.4.5 Metering faucets for wash fountains** Metering faucets for wash fountains shall have a maximum flow rate of not more than 0.20 gallons per cycle/ 20 [rim space (inches) at 60 psi]. **Note:** Where complying faucets are unavailable, aerators or other means may be used to achieve reduction.	☐ ☐ ☐ ☐ ☐	N/A
	5.303.6 Standards for plumbing fixtures and fittings Plumbing fixtures and fittings shall be installed in accordance with the *California Plumbing Code*, and shall meet the applicable standards referenced in Table 1701.1 of the *California Plumbing Code* and in Chapter 6 of this code.	☐	N/A
	OUTDOOR WATER USE		
	5.304.6 Outdoor potable water use in landscape areas For public schools and community colleges, landscape projects as described in Sections 5.304.6.1 and 5.304.6.2 shall comply with the California Department of Water Resources Model Water Efficient Landscape Ordinance (MWELO) commencing with Section 490 of Chapter 2.7, Division 2, Title 23, California Code of Regulations, except that the evapotranspiration adjustment factor (ETAF) shall be 0.65 with an additional water allowance for special landscape areas (SLA) of 0.35. **Exception:** Any project with an aggregate landscape area of 2,500 square feet or less may comply with the prescriptive measures contained in Appendix D of the MWELO. **5.304.6.1 Newly constructed landscapes** New construction projects with an aggregate landscape area equal to or greater than 500 square feet. **5.304.6.2 Rehabilitated landscapes** Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 1,200 square feet.	☐	N/A

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	APPLICATION MATRIX	Mandatory Chapter 5	Complying Sheet or Specification
	DIVISION 5.4 - MATERIAL CONSERVATION AND RESOURCE EFFICIENCY		
	GENERAL		
HMC	**5.401.1 Scope** The provisions of this chapter shall outline means of achieving material conservation and resource efficiency through protection of buildings from exterior moisture, construction waste diversion, employment of techniques to reduce pollution through recycling of materials, and building commissioning or testing and adjusting.		
	WATER RESISTANCE AND MOISTURE MANAGEMENT		
	5.407.1 Weather protection Provide a weather-resistant exterior wall and foundation envelope as required by California Building Code Section 1402.2 (Weather Protection), manufacturer's installation instructions or local ordinance, whichever is more stringent.	☐	N/A
Landscape	**5.407.2 Moisture control** Employ moisture control measures by the following methods. **5.407.2.1 Sprinklers** Design and maintain landscape irrigation systems to prevent spray on structures. **5.407.2.2 Entries and openings** Design exterior entries and/or openings subject to foot traffic or wind-driven rain to prevent water intrusion into buildings as follows: **5.407.2.2.1 Exterior door protection** Primary exterior entries shall be covered to prevent water intrusion by using nonabsorbent floor and wall finishes within at least 2 feet around and perpendicular to such openings plus at least one of the following: 1. An installed awning at least 4 feet in depth. 2. The door is protected by a roof overhang at least 4 feet in depth. 3. The door is recessed at least 4 feet. 4. Other methods which provide equivalent protection **5.407.2.2.2** Flashing Install flashings integrated with a drainage plane.	☒ ☒ ☐ ☐	SEE LANDSCAPE SHEETS N/A N/A
	CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING		
HMC	**5.408.1 Construction waste management** Recycle and/or salvage for reuse a minimum of 65 percent of the nonhazardous construction and demolition waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent.	☒	SEE SPECIFICATION 01 74 19
HMC	**5.408.1.1 Construction waste management plan** Where a local jurisdiction does not have a construction and demolition waste management ordinance that is more stringent, submit a construction waste management plan that 1. Identifies the construction and demolition waste materials to be diverted from disposal by efficient usage, recycling, reuse on the project or salvage for future use or sale. 2. Determines if construction and demolition waste materials will be sorted on-site (source-separated) or bulk mixed (single stream). 3. Identifies diversion facilities where construction and demolition waste material collected will be taken. 4. Specifies that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.	☒	SEE SPECIFICATION 01 74 19

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	APPLICATION MATRIX	Mandatory Chapter 5	Complying Sheet or Specification
CIVIL	**5.408.1.2 Waste management company** Utilize a waste management company that can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with this section. **Note:** The owner or contractor shall make the determination if the construction and demolition waste material will be diverted by a waste management company. **Exceptions to Sections 5.408.1.1 and 5.408.1.2:** 1. Excavated soil and land-clearing debris. 2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist. 3. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities and markets.	☒	SEE PLAN C002 AND SPECIFICATIONS 31 20 00 AND 33 40 00
HMC	**5.408.1.3 Waste stream reduction alternative** The combined weight of new construction disposal that does not exceed two pounds per square foot of building area may be deemed to meet the 65 percent minimum requirement as approved by the enforcing agency.	☒	SEE SPECIFICATION 01 74 19
HMC	**5.408.1.4 Documentation** Documentation shall be provided to the enforcing agency which demonstrates compliance with Sections 5.408.1.1 through 5.408.1.3. The waste management plan shall be updated as necessary and shall be accessible during construction for examination by the enforcing agency. **Notes:** 1. Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" located at http://www.bsc.ca.gov/Home/CAL-Green.aspx may be used to assist in documenting compliance with the waste management plan. 2. Mixed construction and demolition debris (C&D) processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).	☒	SEE SPECIFICATION 01 74 19
	BUILDING MAINTENANCE AND OPERATION		
	5.410.1 Recycling by occupants Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive. **Exception:** Rural jurisdictions that meet and apply for the exemption in Public Resources Code 42649.82 (a)(2)(A) et seq. shall also be exempt from the organic waste portion of this section.	☒	N/A
	5.410.1.2 Sample ordinance Space allocation for recycling areas shall comply with Chapter 18, Part 3, Division 30 of the *Public Resources Code*. Chapter 18 is known as the California Solid Waste Reuse and Recycling Access Act of 1991 (Act). **Note:** A sample ordinance for use by local agencies may be found in Appendix A of the document at the CalRecycle's web site.	☒	N/A

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	APPLICATION MATRIX	Mandatory Chapter 5	Complying Sheet or Specification
	DIVISION 5.5 ENVIRONMENTAL QUALITY		
	GENERAL		
	5.501.1 Scope The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors.		
	POLLUTANT CONTROL		
	5.504.3 Covering of duct openings and protection of mechanical equipment during construction At the time of rough installation and during storage on the construction site until final startup of the heating, cooling and ventilating equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheetmetal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which may enter the system.	☐	N/A
HMC	**5.504.4 Finish material pollutant control** Finish materials shall comply with Sections 5.504.4.1 through 5.504.4.6.	☒	See Specification 01 35 42
HMC	**5.504.4.1 Adhesives, sealants and caulks** Adhesives, sealants, and caulks used on the project shall meet the requirements of the following standards: 1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable, or SCAQMD Rule 1168 VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for aerosol products as specified in subsection 2, below. 2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of California Code of Regulations, Title 17, commencing with Section 94507. **See TABLES 5.504.4.1 [ADHESIVE VOC LIMIT] and 5.504.4.2 [SEALANT VOC LIMIT]**	☒	See Specification 01 35 42
HMC	**5.504.4.3 Paints and coatings** Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Coatings Suggested Control Measure, as shown in Table 5.504.4.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 5.504.4.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-High Gloss coating, based on its gloss, as defined in Subsections 4.21, 4.36 and 4.37 of the 2007 California Air Resources Board Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in Table 5.504.4.3 shall apply.	☒	See Specification 01 35 42

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	APPLICATION MATRIX	Mandatory Chapter 5	Complying Sheet or Specification
HMC	**5.504.4.3 Aerosol paints and coatings** Aerosol paints and coatings shall meet the PWMIR Limits for ROC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(c)(2) and (d)(2) of *California Code of Regulations*, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8 Rule 49. **See TABLE 5.504.4.3 [VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS]**	☒	See Specification 01 35 42
	5.504.4.3.2 Verification Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following: 1. Manufacturer's product specification. 2. Field verification of on-site product containers	☐	N/A
	5.504.4.4 Carpet systems All carpet installed in the building interior shall meet at least one of the following testing and product requirements: 1. Carpet and Rug Institute's Green Label Plus Program; 2. Compliant with the VOC-emission limits and testing requirements specified in the California Department of Public Health Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, Version 1.1, February 2010 (also known as CDPH Standard Method V1.1 or Specification 01350); 3. NSF/ANSI 140 at the Gold level or higher; 4. Scientific Certifications Systems Sustainable Choice; or 5. Compliant with the Collaborative for High Performance Schools California (2014 CA-CHPS) Criteria and listed in the CHPS High Performance Product Database.	☐	N/A
	5.504.4.4.1 Carpet cushion All carpet cushion installed in the building interior shall meet the requirements of the Carpet and Rug Institute's Green Label program.	☐	N/A
	5.504.4.4.2 Carpet adhesive All carpet adhesive shall meet the requirements of Table 5.504.4.1.	☐	N/A
	5.504.4.5 Composite wood products Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the building shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure (ATCM) for Composite Wood (17 CCR 93120 et seq.) Those materials not exempted under the ATCM must meet the specified emission limits, as shown in Table 5.504.4.5. **SEE TABLE 5.504.4.5 [FORMALDEHYDE LIMITS]**	☐	N/A

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	APPLICATION MATRIX	Mandatory Chapter 5	Complying Sheet or Specification
	5.504.4.6 Resilient flooring systems For 80 percent of floor area receiving resilient flooring, installed resilient flooring shall meet at least one of the following: 1. Certified under the Resilient Floor Covering Institute (RFCI) FloorScore program; 2. Compliant with the VOC-emission limits and testing requirements specified in the California Department of Public Health's 2010 Standard Method for the Testing and Evaluation Chambers, Version 1.1, February 2010; 3. Compliant with the Collaborative for High Performance Schools California (2014 CA-CHPS) Criteria and listed in the CHPS High Performance Product Database; or 4. Products certified under UL GREENGUARD Gold (formerly the Greenguard Children's & Schools Program).	☐	N/A
	5.504.5.3 Filters In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air that provides at least a Minimum Efficiency Reporting Value (MERV) of 13. MERV 13 filters shall be installed prior to occupancy, and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual. **Exception:** Existing mechanical equipment.	☐	N/A
	INDOOR MOISTURE CONTROL		
	5.505.1 Indoor moisture control Buildings shall meet or exceed the provisions of *California Building Code*, CCR, Title 24, Part 2, Sections 1203 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures, see Section 5.407.2 of this code.	☐	N/A
	INDOOR AIR QUALITY		
	5.506.1 Outside air delivery For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 120.1 (Requirements For Ventilation) of the *California Energy Code*, or the applicable local code, whichever is more stringent, and Division 1, Chapter 4 of CCR, Title 8.	☐	N/A
	ENVIRONMENTAL COMFORT		
	5.507.4 Acoustical control Employ building assemblies and components with Sound Transmission Class (STC) values determined in accordance with ASTM E90 and ASTM E413 or Outdoor-Indoor Sound Transmission Class (OITC) determined in accordance with ASTM E1332, using either the prescriptive or performance method in Section 5.507.4.1 or 5.507.4.2. **Exception:** Buildings with few or no occupants or where occupants are not likely to be affected by exterior noise, as determined by the enforcement authority, such as factories, stadiums, storage, enclosed parking structures and utility buildings. **Exception:** [DSA-SS] For public schools and community colleges, the requirements of this section and all subsections apply only to new construction.	☐	N/A

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	APPLICATION MATRIX	Mandatory Chapter 5	Complying Sheet or Specification
	5.507.4.1 Exterior noise transmission, prescriptive method Wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall meet a composite STC rating of at least 50 or a composite OITC rating of no less than 40, with exterior windows of a minimum STC of 40 or OITC of 30 in the following locations: 1. Within the 65 CNEL noise contour of an airport. **Exceptions:** 1. Ldn or CNEL for military airports shall be determined by the facility Air Installation Compatible Land Use Zone (AICUZ) plan. 2. Ldn or CNEL for other airports and heliports for which a land use plan has not been developed shall be determined by the local general plan noise element. 2. Within the 65 CNEL or Ldn noise contour of a freeway or expressway, railroad, industrial source or fixed-guideway source as determined by the Noise Element of the General Plan.	☐	N/A
	5.507.4.1.1 Noise exposure where noise contours are not readily available Buildings exposed to a noise level of 65 dB Leq-1-hr during any hour of operation shall have building, addition or alteration exterior wall and roof-ceiling assemblies exposed to the noise source meeting a composite STC rating of at least 45 (or OITC 35), with exterior windows of a minimum STC of 40 (or OITC 30).	☐	N/A
	5.507.4.2 Performance method For buildings located as defined in Section 5.507.4.1 or 5.507.4.1.1, wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does not exceed an hourly equivalent noise level (L_{eq}-1Hr) of 50 dBA in occupied areas during any hour of operation.	☐	N/A
	5.507.4.2.1 Site features Exterior features such as sound walls or earth berms may be utilized as appropriate to the building, addition or alteration project to mitigate sound migration to the interior.	☐	N/A
	5.507.4.2.2 Documentation of compliance An acoustical analysis documenting complying interior sound levels shall be prepared by personnel approved by the architect or engineer of record.		
	5.507.4.3 Interior sound transmission Wall and floor-ceiling assemblies separating tenant spaces and tenant spaces and public places shall have an STC of at least 40. **Note:** Examples of assemblies and their various STC ratings may be found at the California Office of Noise Control: http://www.toolbase.org/PDF/CaseStudies/stc_icc_ratings.pdf	☐	N/A
	OUTDOOR AIR QUALITY		
	5.508.1 Ozone depletion and greenhouse gas reductions Installations of HVAC, refrigeration and fire suppression equipment shall comply with Sections 5.508.1.1 and 5.508.1.2. **5.508.1.1 Chlorofluorocarbons (CFCs)** Install HVAC, refrigeration and fire suppression equipment that do not contain CFCs. **5.508.1.2 Halons** Install HVAC, refrigeration and fire suppression equipment that do not contain Halons.	☐ ☐ ☐	N/A

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LICENSED ARCHITECT
VIRGINIA ELAINE MARQUARDT
No. C-33423
Exp. 08/30/2025
STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

FACILITY:
EL MONTE HIGH SCHOOL
3048 TYLER AVE
EL MONTE, CA 91731

PROJECT:
EL MONTE HIGH SCHOOL TRACK AND FIELD EXISTING TRACK AND FIELD REPLACEMENT

SHEET NAME:
CAL GREEN

CONSTRUCTION DOCUMENTS

FAC NO.: XXXXX **BLDG NO.: BLD-XXXXX**

DATE **07.11.2023** CLIENT PROJ NO:

SHEET:

G0.13

7/10/2023 8:54:32 PM

PLEASE RECYCLE

THE LINE SHOWN ABOVE IS THE APPROXIMATE EXTENT OF THIS SHEET'S ORIGINAL SPACE SIZE

PROJECT STATUS EL MONTE HS

DSA #	SCOPE	STATUS
51135	Construction of five vestibules at two boys and girls shower/locker room building L & M; elevator shaft building; alterations to auditorium building A, seven classroom buildings B, C, G, H, I, J, T, library/cafeteria building D, administration/classroom building E, two shower/locker buildings L & M, student union building P, two industrial arts buildings R & S, office building II, faculty lounge NN and science laboratory building F	#1 - Certified & Close of File
03-117117	Construction of 3 bleachers, 2 modular toilet buildings, 2 modular concession buildings, 1 ticket booth building	#1 - Certified & Close of File
03-118568	Alterations to 1 existing parking lot	#1 - Certified & Close of File
03-103300	Track and Field/ Construction of Electrical Utilities	#1 - Certified & Close of File

DSA #	SCOPE	STATUS
03-102001	Construction of Exterior Bleachers @ El Monte High School	#1 - Certified & Close of File
03-103779	Construction of CLSRM BLDGS C,F,H,I,MM, & NN @ EL MONTE HS	#2-Certification & Close of File Per EDU Code 17315(b) OR 81147(b)
03-107686	Alterations to buildings A, B, C, D, E, F, G, H, I, J, K, L, M, N, NN, and sitework	#1 - Certified & Close of File
03-108485	Construction of science building G and tennis courts. Alterations to classroom building G	#1 - Certified & Close of File
03-109061	Construction of library building, 2 classroom buildings, lunch shelter; mech/elect/trash enclosure, site work and grandstand at ball field	#2-Certification & Close of File Per EDU Code 17315(b) OR 81147(b)

SITE PLAN LEGEND

- A.C. PAVING OR SLURRY COAT, REFER TO CIVIL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION
- CONCRETE - REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION
- SYNTHETIC TURF - REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION
- GRASS - REFER TO LANDSCAPE DRAWINGS SPECIFICATIONS FOR ADDITIONAL INFORMATION
- PLANTER. SEE LANDSCAPE DRAWINGS FOR ADDITIONAL INFORMATION
- TRACK SURFACE - REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION
- SHOT-PUT MIX - REFER TO LANDSCAPE DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION
- AREA NOT IN SCOPE (N.I.S.)
- SAND - REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION
- EXPANSION OR CONTROL JOINT - REFER TO SPECIFICATIONS AND GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION
- (E) CHAIN LINK FENCE
- (E) ANTI-CLIMB METAL FENCING AND OR GATE(S)
- LIMITS OF WORK

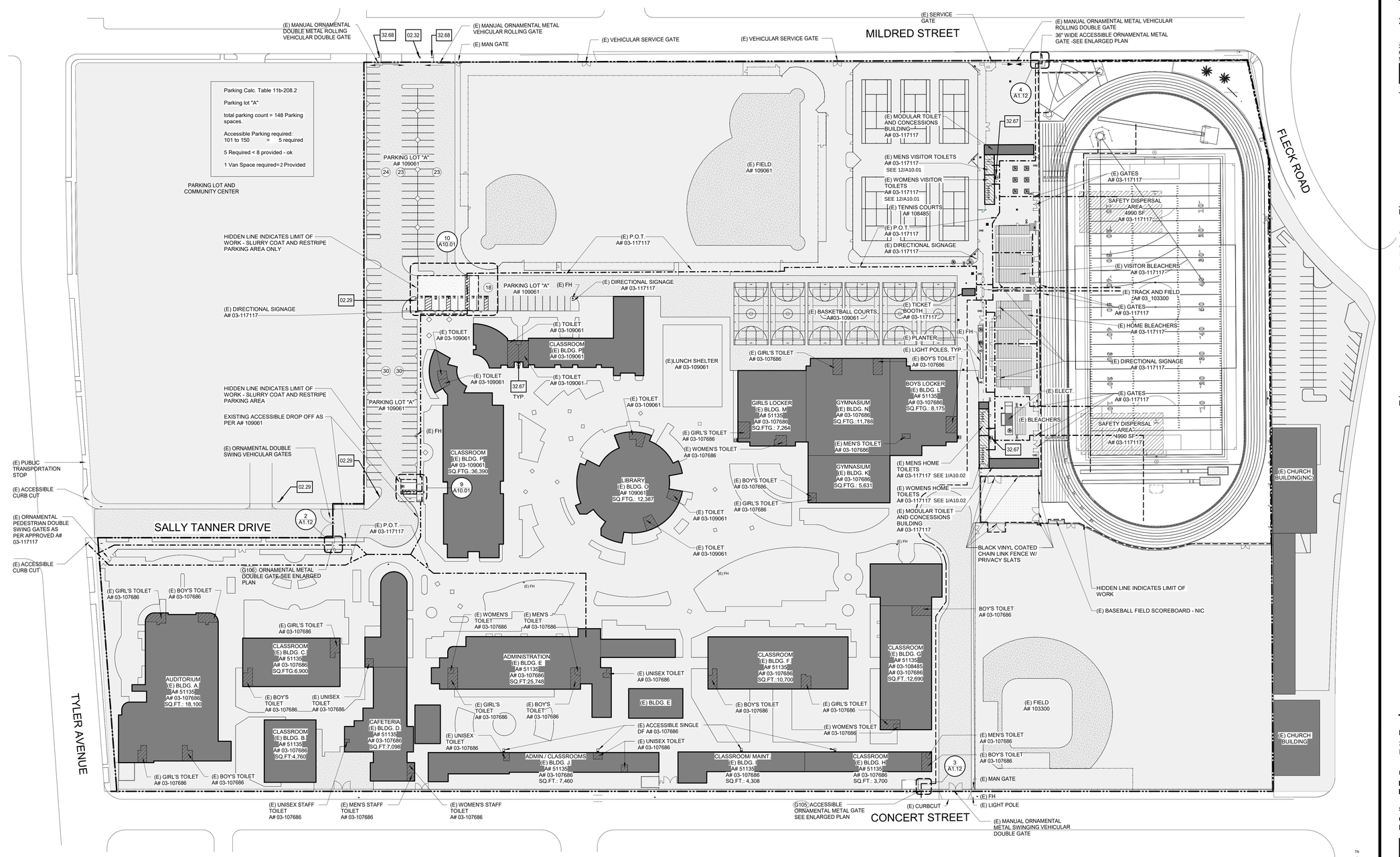
DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT:
THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NONCOMPLIANT 1) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM 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 THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS.

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

"ACCESSIBLE ROUTE IS BARRIER FREE WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" BEVELED AT A SLOPE NOT STEEPER THAN 1:2, EXCEPT THAT LEVEL CHANGES ARE 1/4" MAXIMUM VERTICAL AND AT LEAST 48" WIDE. SURFACE SHALL BE STABLE, FIRM, AND SLIP RESISTANT. CROSS SLOPE SHALL NOT BE STEEPER THAN 1:48 AND RUNNING SLOPE SHALL NOT BE STEEPER THAN 1:20 (SECTION 11B-403.3). ACCESSIBLE ROUTE SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM (SECTION 11B-307.4) AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL SURFACE BETWEEN 27" AND 80" ABOVE FINISH FLOOR OR GROUND (SECTION 11B-307.2). PROVIDE FLUSH TRANSITIONS AT ANY ADJOINING JOINTS BETWEEN DIFFERENT WALK SURFACES IN ACCESSIBLE ROUTE. ARCHITECT TO VERIFY THAT THERE ARE NO BARRIERS IN THE ACCESSIBLE ROUTE AND ALL ACCESSIBLE ROUTES COMPLY WITH SECTION 11B-206."

SITE ACCESS LEGEND

- (E) BUILDINGS
- SAFE DISPERSAL AREA
- (E) RESTROOMS N.I.C.
- AREA N.I.C.
- (E) PATH OF TRAVEL AS PER A# AS INDICATED ON DWGS.
- PATH OF TRAVEL
- ASSUMED PROPERTY LINE



OVERALL/ ACCESSIBILITY SITE PLAN

1
1" = 50'-0"

PLEASE RECYCLE

7/10/2023 3:54:41 PM

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122306 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/27/2023

HMC Architects
3361004000
3546 CONCOURS STREET
ONTARIO, CA 91764
909 989 9979 / www.hmcarchitects.com

VIRGINIA ELAINE MARQUARDT
No. C-33423
Renewal date 09/30/2025
STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

02.29	(E) TOW AWAY SIGN / NO HIGH SCHOOL PARKING - SEE DETAIL 4/A10.02 SIM.
02.32	(E) NO PARKING SIGN
32.67	NEW OF RAILING AT (E) ACCESSIBLE DF, SEE DETAIL 11/A10.10
32.68	NO PARKING/ TOW AWAY SIGN - SEE DETAIL 4/A10.02

NOTES

FACILITY:
EL MONTE HIGH SCHOOL
3048 TYLER AVE
EL MONTE, CA 91731

PROJECT:
EL MONTE HIGH SCHOOL TRACK AND FIELD EXISTING TRACK AND FIELD REPLACEMENT

SHEET NAME:
OVERALL / ACCESSIBLE PATH OF TRAVEL AND EXITING

CONSTRUCTION DOCUMENTS

FAC NO.: XXXXX | BLDG NO.: BLD-XXXXX
DATE 07.11.2023 | CLIENT PROJ NO:
SHEET:

G1.10

THE LINE SHOWN ABOVE IS 1" LONG WHEN PRINTED ON EXTERIOR ORIGINAL SHEETS (ARCH D)

FIRE ACCESS GENERAL NOTES

1. REFER TO SHEET G0.11 FOR TYPICAL SYMBOLS AND ABBREVIATIONS.
2. PROVIDE A MIN. UNOBSTRUCTED WIDTH OF 20 FEET CLEAR TO SKY, VEHICULAR ACCESS TO WITHIN 150 FEET OF ALL PORTIONS OF BUILDING EXTERIOR WALLS PER CAL. FIRE CODE.
3. HATCH INDICATES FIRE DEPARTMENT ACCESS WAYS (SEE LEGEND).
4. VEHICULAR ACCESS MUST BE PROVIDED AND MAINTAINED SERVICEABLE THROUGHOUT CONSTRUCTION.
5. ALL POLES, BACKBOARDS AND OTHER CONSTRUCTIONS ON PLAYGROUNDS NEAR A FIRE ACCESS ROADWAY SHALL BE PROVIDED WITH REFLECTION TAPE OR PAINT.
6. KNOX KEY SWITCHES, KNOX LOCKS OR FRANGIBLE PADLOCKS/ CHAINS SHALL BE PROVIDED FOR ALL GATES AND BARRIERS IN THE PATH OF VEHICLE OR FIREFIGHTER ACCESS.
7. THE CAMPUS ID SHALL BE IDENTIFIED WITH 6 INCH HIGH ADDRESS NUMBERS EASILY VISIBLE FROM THE PUBLIC ROAD FRONTING THE PROPERTY. INDIVIDUAL STRUCTURES ARE IDENTIFIED WITH 6 INCH HIGH ADDRESS NUMBERS OR LETTERS EASILY VISIBLE FROM THE PUBLIC WAY OR FIRE ROADWAY.
8. PIVS', DDCV AND FDCS' SHALL BE UNOBSTRUCTED AND VISIBLE FROM THE FIRE LANE OR PUBLIC ROAD. THEY SHALL BE PAINTED OSHA SAFETY RED.
9. REFER TO CIVIL DRAWINGS FOR GRADING AND UTILITY INFORMATION.
10. REFER TO MEP/AV DRAWINGS FOR UTILITY INFORMATION.
11. CONTRACTOR IS RESPONSIBLE FOR REPAIR/REPLACEMENT OF ALL HARDSCAPE/ PLANTING OUTSIDE OF LIMIT OF WORK LINE FOR CONNECTION OF UNDERGROUND UTILITIES.
12. CONTRACTOR TO VERIFY LOCATIONS OF (E) KNOX BOX. IF NO KNOX BOX EXISTS, CONTRACTOR TO INSTALL NEW KNOX BOX IN ACCORDANCE W/ FIRE CODE SECTION 506 AND SPEC SECTION 10 80 00.

DSA **810**

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

Division of the State Architect (DSA) documents referenced within this publication are available on the DSA Forms or DSA Publications webpages.

To facilitate the Division of the State Architect's (DSA) fire and life safety plan review of project site conditions, DSA requires the design professional to provide the following information at time of project submittal for projects consisting of construction of a new campus, construction of new building(s), additions to existing buildings, and for site alternate design means for fire department emergency vehicle access, and fire suppression water supply.

Information associated with compliance items 1 through 3 below is to be provided for all project types indicated above. Information associated with items 4 through 7 is to be completed when an alternate means is utilized. Acknowledgement by the school district and signature from the Local Fire Authority (LFA) is only required when an alternate design means is being requested.

The Project Information and Fire & Life Safety Information sections are to be completed for all projects and imaged onto the fire access site plan. When an alternate design/means is proposed, all sections on pages 1 and 2 are to be completed and imaged on the fire access site plan.

For additional information refer to the instructions at the end of this form and DSA Policy *PL 09-01: Fire Flow for Buildings*.

PROJECT INFORMATION	
School District/Owner:	El Monte Union High School District
Project Name/School:	El Monte High School
Project Address:	3048 Tyler Ave, El Monte, CA 91731

FIRE & LIFE SAFETY INFORMATION				
1.	Has a fire hydrant flow test been performed within the past 12 months? *(If yes, provide a copy of the test data.)*	Yes ☐		No ☒
2.	Was the fire hydrant water flow test performed as part of this LFA review?	Yes ☐		No ☒
3.	Is the project located within a designated fire hazard severity zone *(FHSZ)* as established by Cal-Fire? *(If yes, indicate FHSZ classification below.)*	Yes ☐		No ☒
	Refer to the following website for FHSZ locations: http://osfm.fire.ca.gov/FHSZ	Moderate ☐	High ☐	Very High ☐
	Wildland Interface Area (WIFA) *(If any designations are checked, project design must meet the requirements of CBC Chapter 7A.)*			WIFA ☐

CONDITION MEANS AND METHODS RESOLUTION		ALTERNATE ACCEPTED			
		Yes	No	N/A	N/R
4.	Emergency vehicle access roadways do not meet CFC requirements.			☒	
4a.	**Acceptable Alternate:** Emergency vehicle and personnel access as proposed by the project architect is acceptable for providing fire suppression and protection of life and property.				
5.	**Fire Hydrants:** Number and spacing does not meet CFC requirements.			☒	
5a.	**Acceptable Alternate:** Number of fire hydrants and spacing as proposed by the project architect is acceptable for fire suppression and protection of life and property.				
6.	**Fire Hydrants:** Water flow and pressure are less than CFC minimum.			☒	
6a.	**Acceptable Alternate:** The available flow and pressure is acceptable for providing fire suppression and protection of life and property.				
7.	Location of fire department connection(s) serving fire sprinkler systems or standpipe systems does not meet CFC requirements.			☒	
7a.	**Acceptable Alternate:** The location of fire department connection serving the fire sprinkler system and/or standpipe system is acceptable for providing fire suppression and protection of life and property.				

School District Acceptance of Acceptable Design Alternates

By signing this form, the school district acknowledges and accepts the proposed design as an alternative to California Building Code (CBC) and California Fire Code (CFC) minimum requirements, as indicated by one or more of the conditions indicated at items 4a, 5a, 6a or 7a, for providing fire and life safety protection of life and property.

Accepted by: _____ Title: _____

Signature: _____ Date: _____

LOCAL FIRE AUTHORITY (LFA) INFORMATION	
LFA Agency Name:	
LFA Review Official:	
Title:	Work Phone:
Work Email:	

LFA Reviewer's Signature: _____ Date: _____

FIRE ACCESS LEGEND

- A/C SLURRY COAT, REFER TO CIVIL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION
- CONCRETE - REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION
- SYNTHETIC TURF - REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION
- GRASS - REFER TO LANDSCAPE DRAWINGS SPECIFICATIONS FOR ADDITIONAL INFORMATION
- PLANTER WITH 6" CURB. SEE LANDSCAPE DRAWINGS FOR ADDITIONAL INFORMATION
- TRACK SURFACE - REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION
- SHOT-PUT MIX - REFER TO LANDSCAPE DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION
- (E) 20' FIRE LANE PER A# AS INDICATED ON PLAN
- AREA N.I.C.

- LIMIT OF WORK
- (E) FIRE LANE IDENTIFICATION - PAINTED RED
- CHAIN LINK FENCE
- ORNAMENTAL METAL FENCING AND OR GATE(S)
- (E) FIRE HYDRANT
- (E) KB (E) KNOX BOX, A#109061
- KB KNOX BOX

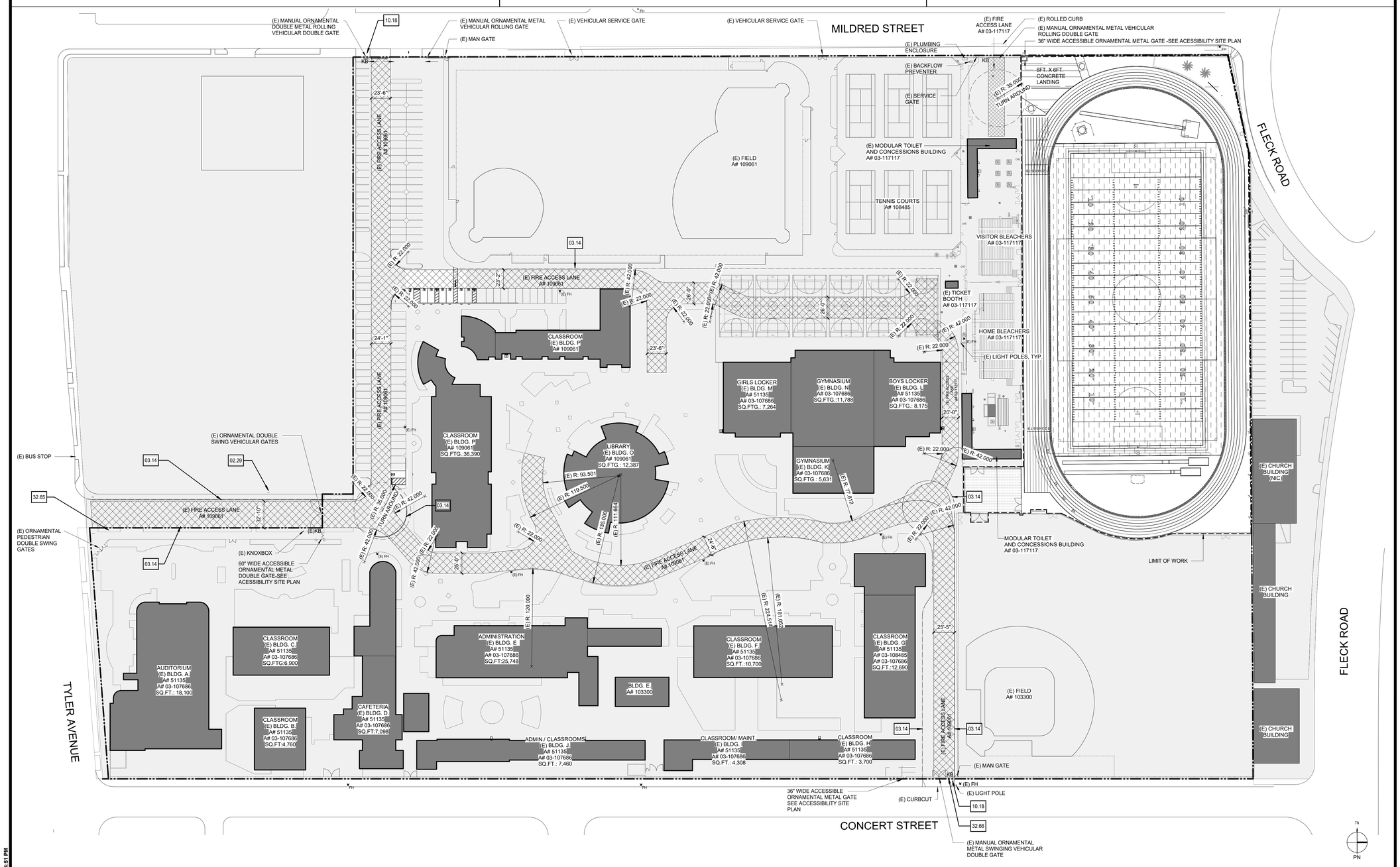
IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122306 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/27/2023

HMC Architects
3361004000
3546 CONCOURS STREET
ONTARIO, CA 91764
909 989 9979 / www.hmcarchitects.com

LICENSED ARCHITECT
VIRGINIA ELAINE MARQUARDT
No. C-33423
06/30/2025
RENEWAL DATE
STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE



KEYNOTES

02.29	(E) NO HIGH SCHOOL PARKING - TOW AWAY SIGN - SEE DETAIL 4/A10.02
03.14	(E) FIRE LANE IDENTIFICATION
10.18	SURFACE MOUNTED KNOXBOX ATTACHED TO ORNAMENTAL FENCE EXACT LOCATION TO BE DETERMINED BY FIRE DEPARTMENT; PROVIDE STEEL PLATE WELDED TO ORNAMENTAL FENCE FRAME TO ATTACH KNOXBOX. SECURE KNOXBOX PER MANUF. INSTALLATION & REFER TO SPEC SECTION 10 80 00
32.65	FIRE LANE NO PARKING SIGN WITH POLE - SEE DETAIL 2/A10.02
32.66	FIRE LANE NO PARKING SIGN - SEE DETAIL 2/A10.02

NOTES

FACILITY:
EL MONTE HIGH SCHOOL
3048 TYLER AVE
EL MONTE, CA 91731

PROJECT:
EL MONTE HIGH SCHOOL TRACK AND FIELD
EXISTING TRACK AND FIELD REPLACEMENT

SHEET NAME:
FIRE ACCESS SITE PLAN

CONSTRUCTION DOCUMENTS

FAC NO.: XXXXX	BLDG NO.: BLD-XXXXX
DATE 07.11.2023	CLIENT PROJ NO:

SHEET:

G1.11

FIRE ACCESS SITE PLAN **1** 1" = 50'-0"

7/10/2023 5:34:51 PM

PLEASE RECYCLE

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG AT 11X17 SHEET SIZE

SITE IMPROVEMENT PLANS
FOR
EL MONTE HIGH SCHOOL
TRACK & FIELD

CIVIL SHEET INDEX	
SHEET	DESIGNATION
C000	SITE IMPROVEMENT PLAN TITLE SHEET
C001	DEMOLITION PLAN
C002	GRADING PLAN
C003	DETAIL SHEET
C004	DETAIL SHEET

GENERAL NOTES FOR ON-SITE GRADING

1. ALL WORK SHALL CONFORM WITH THE "GREENBOOK" STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (SSPWC), 2021 EDITION AND THE LATEST REVISIONS THERETO, THE WORK AREA TRAFFIC CONTROL HANDBOOK (W.A.T.C.H. MANUAL), A.D.A, TITLE 24 REQUIREMENTS, AND 2019 C.B.C. UNLESS SPECIFIED OTHERWISE IN THE CONTRACT SPECIFICATIONS.
2. A COPY OF THE DIVISION OF STATE ARCHITECT APPROVED PRECISE GRADING PLANS MUST BE IN THE POSSESSION OF A RESPONSIBLE PERSON AND AVAILABLE AT THE JOB SITE AT ALL TIMES.
3. AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL CONTACT THE REGIONAL NOTIFICATION CENTER (UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA – U.S.A. AT 811) TO OBTAIN AN INQUIRY IDENTIFICATION NUMBER AND TO REQUEST THE UTILITY OWNERS TO MARK OR OTHERWISE INDICATE THE LOCATION OF THEIR SUBSURFACE FACILITIES. THE CONTRACTOR SHALL DETERMINE THE LOCATION AND DEPTH OF ALL UTILITIES, INCLUDING ALL SERVICE CONNECTIONS, WHICH HAVE BEEN MARKED BY THE RESPECTIVE OWNERS AND WHICH MAY AFFECT OR BE AFFECTED BY ITS OPERATIONS. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO PROTECT ALL UTILITIES AND ALL STRUCTURES FOUND AT THE SITE.
4. ALL PERMITS NECESSARY PRIOR TO BEGINNING CONSTRUCTION SHALL BE OBTAINED BY THE CONTRACTOR.
5. THROUGHOUT ALL PHASES OF CONSTRUCTION, INCLUDING SUSPENSION OF WORK, UNTIL FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL KEEP THE WORK SITE CLEAN AND FREE FROM RUBBISH AND DEBRIS. THE CONTRACTOR SHALL ALSO ABATE DUST NUISANCE BY CLEANING, SWEEPING AND SPRINKLING WITH WATER AND USING DUST FENCES OR OTHER METHODS AS DIRECTED BY THE CONSTRUCTION MANAGER OR FIELD INSPECTOR THROUGHOUT THE CONSTRUCTION OPERATION AND SHALL INCORPORATE IN BASE BID.
6. THE CONTRACTOR SHALL KEEP A STRICT RECORD OF ALL CHANGES THAT OCCUR DURING CONSTRUCTION PRACTICES AND SUBMIT THIS RECORD TO THE SCHOOL DISTRICT & DSA CERTIFIED AS "RECORD DRAWING" PLANS.
7. ALL DAMAGE CAUSED TO PUBLIC STREETS, INCLUDING HAUL ROUTES, ALLEYS, SIDEWALKS, CURBS OR STREET FURNISHINGS, OR TO PRIVATE PROPERTY SHALL BE REPAIRED AT THE SOLE EXPENSE OF THE CONTRACTOR TO THE ENGINEER'S SATISFACTION.
8. THE CONTRACTOR SHALL REMOVE AND REPLACE ANY BROKEN OR DAMAGED SIDEWALK, CURB, GUTTER OR ASPHALT PAVING AND TURF (PATCH, REPAIR OR OVERLAY) CAUSED BY THEIR WORK ON THIS PROJECT AT THE DIRECTION OF THE OWNER.
9. ALL UNDERGROUND SEWER, STORM DRAIN, AND WATER PIPELINES, ELECTRIC POWER, TELEPHONE OR CABLE TV CONDUITS AND CABLE AND GAS PIPELINES SHALL BE INSTALLED PRIOR TO CONSTRUCTION OF CURBS, GUTTERS, SIDEWALKS AND PAVEMENT.
10. WHERE JOINING THE EXISTING PAVEMENT, SAWCUT TO SOUND PAVEMENT AND OVERLAY AS REQUIRED TO PROVIDE PROPER GRADE AND 2% MAX. CROSS-SLOPE OR 5% MAX. RUNNING SLOPE AS NOTED ON PLANS. ANY UNSOUND PAVEMENT SHALL BE REPLACED AS REQUIRED BY THE ENGINEER.
11. AT LEAST TWO (2) WORKING DAYS BEFORE COMMENCING EXCAVATION, THE CONTRACTOR SHALL POTHOLE AND EXPOSE THE EXISTING UTILITIES AT ALL CROSSINGS AND AT THE POINT OF TIE-IN; THEN CONTACT THE ENGINEER TO VERIFY THE ELEVATION OF THE EXISTING FACILITIES.
12. SURVEY MONUMENTS SHALL BE PRESERVED AND REFERENCED BEFORE CONSTRUCTION AND RE-PLACED AFTER CONSTRUCTION PURSUANT TO SECTION 2-9 OF THE S.S.P.W.C. (GREENBOOK).
13. ALL UNSUITABLE MATERIAL SHALL BE REMOVED, AS DIRECTED BY THE SOILS ENGINEER, FROM ALL AREAS ALL UNSUITABLE MATERIAL SHALL BE REMOVED, AS DIRECTED BY THE SOILS ENGINEER, FROM ALL AREAS TO RECEIVE COMPACTED FILL OR DRAINAGE STRUCTURES. TO RECEIVE COMPACTED FILL OR DRAINAGE STRUCTURES.
14. ALL DELETERIOUS MATERIAL (I.E. LUMBER, LOGS, BRUSH, RUBBISH, ETC.) SHALL BE REMOVED FROM ALL AREAS TO RECEIVE COMPACTED FILL AND HAULED TO DUMP-SITE APPROVED BY THE ENGINEER.
15. ALL AREAS TO RECEIVE COMPACTED FILL SHALL BE INSPECTED AND APPROVED BY THE SOILS ENGINEER AFTER REMOVAL OF UNSUITABLE MATERIAL AND EXCAVATION OF KEYWAYS AND BENCHES, AND PRIOR TO PLACEMENT OF SUBSURFACE DRAINAGE SYSTEMS OR ANY FILLS.
16. ALL SOILS OR ROCK MATERIALS DEEMED UNSUITABLE FOR PLACEMENT IN COMPACTED FILL SHALL BE REMOVED FROM THE SITE. ANY IMPORTED MATERIAL SHALL BE APPROVED BY THE SOILS ENGINEER PRIOR TO USE IN COMPACTED FILL. BLOCKY MATERIAL SHALL BE BROKEN INTO SUITABLE PARTICLE SIZES, BEFORE BEING USED AS FILL IN CONFORMANCE WITH THE CITY STANDARDS.
17. ALL TREE ROOTS, ABANDONED IRRIGATION LINES, UTILITY SERVICES AND SIMILAR MATERIALS ENCOUNTERED DURING EXCAVATION SHALL BE REMOVED FROM THE SITE AND VOIDS CREATED THEREBY SHALL BE PROPERLY FILLED AND COMPACTED AS DIRECTED BY THE SOILS ENGINEER.
18. ALL EXCAVATED BACK SLOPES AND KEYS FOR BUTTRESS FILLS MUST BE EXAMINED BY THE ENGINEERING GEOLOGIST AND SOILS ENGINEER TO INSURE ALL POTENTIAL PLANES OF FAILURE HAVE BEEN EXPOSED IN THE EXCAVATION AND WILL BE ADEQUATELY SUPPORTED BY THE PROPOSED BUTTRESS FILLS.
19. THE SOILS ENGINEER SHALL SUBMIT RECOMMENDATIONS FOR CORRECTIVE WORK TO INSURE SLOPE STABILITY WHERE UNSTABLE MATERIAL IS EXPOSED AT THE TOP OF CUTS.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING STORM DAMAGE PREVENTION MEASURES OR EROSION CONTROL DEVICES AND/OR TO PERFORM CERTAIN GRADING TO PREVENT SOIL OR EXCESS RUNOFF FROM FLOWING INTO PUBLIC STREETS OR ADJACENT PROPERTIES. IN THE EVENT OF SUCH AN OCCURRENCE, CLEANUP SHALL COMMENCE IMMEDIATELY. SHOULD CITY FORCES OR THE CITY CONTRACTOR PERFORM ANY CLEANUP RESULTING FROM THIS DEVELOPMENT, THE CONTRACTOR SHALL PAY THE COST INCURRED WITHIN TEN (10) WORKING DAYS UPON RECEIPT OF BILLING.
21. EITHER WATER OR DUST PALLIATIVE, OR BOTH, MUST BE APPLIED FOR THE ALLEVIATION OR PREVENTION OF EXCESSIVE DUST RESULTING FROM THE LOADING OR TRANSPORTATION OF EARTH FROM OR TO THE PROJECT SITE OR PRIVATE AND PUBLIC ROADWAYS.
22. NO OVERSIZE OR OVERWEIGHT LOADS ARE PERMITTED WITHOUT A SEPARATE MOVING PERMIT.
23. ALL EQUIPMENT USED TO HAUL EXCAVATION OR FILL MATERIAL FROM OR TO THE SITE SHALL FOLLOW A DESIGNATED ROUTE OR ROUTES IN GOING TO AND FROM THE SITE. THE CONTRACTOR SHALL BE ENTITLED TO THE DESIGNATION OF A ROUTE PROVIDING ACCESS TO A SPECIFIED PLACE OTHER THAN THE SITE, AFTER SHOWING TO THE SATISFACTION OF THE CITY BUILDING OFFICIAL THAT SUCH SPECIFIED PLACE IS A PLACE WHERE EXCAVATION MATERIAL MAY BE REASONABLY DEPOSITED OR FILL MATERIAL MAY BE OBTAINED. A SEPARATE ENCROACHMENT PERMIT IS REQUIRED WHEN IT IS NECESSARY TO FLAG TRAFFIC OR INSTALL ANY TRAFFIC CONTROL DEVICES ON CITY RIGHT-OF-WAY.
24. ANY EARTH ROCK, GRAVEL, SAND, STONE OR OTHER EXCAVATED MATERIAL DEPOSITED OR CAUSED TO ROLL, FLOW OR WASH UPON ANY PUBLIC PLACE OR PRIVATE PROPERTY SHALL BE REMOVED FROM SUCH PUBLIC PLACE OR PRIVATE PROPERTY BY THE END OF THE WORKDAY BY THE CONTRACTOR RESPONSIBLE FOR THE DEPOSITION. IF AN ADVERSE CONDITION IS CAUSED BY DEPOSIT, THE CONDITION SHALL BE CORRECTED IMMEDIATELY.
25. EVERY EFFORT SHOULD BE MADE TO ELIMINATE THE DISCHARGE OF NON-STORMWATER FROM THE PROJECT SITE AT ALL TIMES.
26. ALL TRUCKS HAULING DIRT, SAND, OIL, OR OTHER LOOSE MATERIALS ARE TO BE COVERED OR SHOULD MAINTAIN AT LEAST TWO FEET OF FREEBOARD IN ACCORDANCE WITH THE REQUIREMENTS OF CVC SECTION 23114.
27. ADJUST UTILITY BOXES TO BE FLUSH WITH ULTIMATE FINISH SURFACE IN PAVING SCOPE OF WORK AREAS.
28. CONTRACTOR SHALL HIRE A LICENSED SURVEYOR TO STAKE ALL CATCH BASINS, STORM DRAIN PIPE, SAW-CUT LINES, BUILDING PADS, FINISH FLOORS, SWALES AND GRADE BREAKS. TWO STAKES SHALL BE PROVIDED FOR ALL CATCH BASINS.
29. IN ORDER TO MITIGATE THE IMPACTS ON CULTURAL RESOURCES OR LANDSCAPING, IF CULTURAL MATERIAL SUGGESTIVE OF PREHISTORIC OR HISTORIC ORIGIN IS ENCOUNTERED, WORK IN THE VICINITY OF THE FIND SHALL BE STOPPED, AND THE OWNER SHALL BE NOTIFIED. GRADING, CONSTRUCTION OR LANDSCAPING SHALL NOT RESUME UNTIL THE FIND IS EVALUATED AND IT IS DETERMINED WHETHER THE MATERIAL IS ARCHAEOLOGICALLY SIGNIFICANT AND ADDITIONAL MITIGATION IS REQUIRED.
30. NO PERSON SHALL, WHEN HAULING ANY EARTH, SAND, GRAVEL, ROCK, STONE OR OTHER EXCAVATED MATERIAL OR DEBRIS OVER ANY PUBLIC STREET, ALLEY OR OTHER PUBLIC PLACE, ALLOW SUCH MATERIAL TO BLOW OR SPILL OVER UPON SUCH STREET, ALLEY OR PUBLIC PLACE OR ADJACENT PRIVATE PROPERTY OR ANY WATER BODIES, CREEKS OR STREAMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEANUP AND REMOVAL OF ANY CONSTRUCTION OR SOILS MATERIALS DEPOSITED ON THE PUBLIC RIGHT-OF-WAY, PUBLIC WATERS OR ADJACENT PRIVATE PROPERTY.

GENERAL NOTES TO CONTRACTOR

1. THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 7-10, PUBLIC CONVENIENCE AND SAFETY, OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREENBOOK), IN REGARDS TO SAFETY ORDERS.
2. SCOPE OF WORK:

   A. PROVIDE ALL LABOR, SUPERVISION, MATERIALS, EQUIPMENT & FACILITIES NECESSARY TO FURNISH, FABRICATE, DELIVER, STORE AND INSTALL ALL WORK NOTED ON THE DRAWINGS.

   B. THE CONTRACTOR SHALL FURNISH & INSTALL ALL WORK NECESSARY TO MAKE A COMPLETE SYSTEM WHETHER OR NOT SUCH DETAILS ARE MENTIONED IN THESE SPECIFICATIONS OR SHOWN ON THE PLANS, BUT WHICH ARE OBVIOUSLY NECESSARY TO MAKE A COMPLETE SYSTEM, EXCEPTING ONLY THOSE PORTIONS THAT ARE SPECIFICALLY MENTIONED HEREIN OR PLAINLY MARKED ON THE ACCOMPANYING DRAWINGS AS BEING INSTALLED UNDER ANOTHER SECTION OF THE SPECIFICATION.
3. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY AVAILABLE SPACES FOR INSTALLING THE WORK.
4. COORDINATION: THE DRAWINGS ARE DIAGRAMMATIC & INTENDED TO SHOW SCOPE. CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES TO PROVIDE BEST ARRANGEMENT OF ALL DUCT, PIPES, CONDUIT, ETC.
5. WORKMANSHIP: THE WORK SHALL BE ACCOMPLISHED BY THE USE OF COMPETENT MECHANICS SKILLED IN THEIR TRADE. THE ENGINEER AND ARCHITECT SHALL HAVE THE RIGHT TO INTERPRET COMPLIANCE OF WORKMANSHIP WITH THE CONTRACT DOCUMENTS.
6. MATERIALS: ALL MATERIALS, APPLIANCES & EQUIPMENT SHALL BE NEW & THE BEST OF THEIR RESPECTIVE KIND. FREE FROM ALL DEFECTS AND OF THE MAKE, BRAND, AND QUANTITY SPECIFIED.
7. CLEAN-UP: UPON COMPLETION OF THE WORK UNDER THIS SECTION THE CONTRACTOR SHALL REMOVE ALL SURPLUS MATERIALS. EQUIPMENT & DEBRIS INCIDENTAL TO THIS WORK & LEAVE THE PREMISES CLEAN AND ORDERLY TO THE SATISFACTION OF THE ARCHITECT / OWNER.

STORM WATER POLLUTION CONTROL NOTES:

1. APPROPRIATE BMP'S FOR CONSTRUCTION-RELATED MATERIALS, WASTE, SPILLS OR RESIDUES SHALL BE IMPLEMENTED AND RETAINED ON SITE TO MINIMIZE TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES, OR ADJOINING PROPERTY BY WIND OR RUNOFF.
2. SEDIMENT FROM AREAS DISTURBED BY CONSTRUCTION SHALL BE RETAINED ON SITE USING STRUCTURAL CONTROLS TO THE MAXIMUM EXTENT PRACTICABLE.
3. STOCKPILES OF SOIL SHALL BE PROPERLY CONTAINED TO MINIMIZE SEDIMENT TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES OR ADJACENT PROPERTIES VIA RUNOFF, VEHICLE TACKING, OR WIND.
4. ALL REMOVABLE EROSION PROTECTIVE DEVICES SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN THE 5-DAY RAIN PROBABILITY FORECAST EXCEEDS 50%.
5. RUNOFF FROM EQUIPMENT AND VEHICLE WASHING SHALL BE CONTAINED AT CONSTRUCTION SITES UNLESS TREATED TO REDUCE OR REMOVE SEDIMENT AND OTHER POLLUTANTS.
6. ALL CONSTRUCTION CONTRACTOR AND SUBCONTRACTOR PERSONNEL ARE TO BE MADE AWARE OF THE REQUIRED BEST MANAGEMENT PRACTICES AND GOOD HOUSEKEEPING MEASURES FOR THE PROJECT SITE AND ANY ASSOCIATED CONSTRUCTION STAGING AREAS.
7. AT THE END OF EACH DAY OF CONSTRUCTION ACTIVITY ALL CONSTRUCTION DEBRIS AND WASTE MATERIALS SHALL BE COLLECTED AND PROPERLY DISPOSED IN TRASH OR RECYCLE BINS.
8. CONSTRUCTION SITES SHALL BE MAINTAINED IN SUCH A CONDITION THAT AN ANTICIPATED STORM DOES NOT CARRY WASTES OR POLLUTANTS OFF THE SITE. DISCHARGES OF MATERIAL OTHER THAN STORMWATER ONLY WHEN NECESSARY FOR PERFORMANCE AND COMPLETION OF CONSTRUCTION PRACTICES AND WHERE THEY DO NOT: CAUSE OR CONTRIBUTE TO A VIOLATION OF ANY WATER QUALITY STANDARD; CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR NUISANCE; OR CONTAIN A HAZARDOUS SUBSTANCE IN A QUANTITY REPORTABLE UNDER FEDERAL REGULATIONS 40 CFR PARTS 117 AND 302.
9. POTENTIAL POLLUTANTS INCLUDE BUT ARE NOT LIMITED TO: SOLID OR LIQUID CHEMICAL SPILLS; WASTES FROM PAINTS, STAINS, SEALANTS, GLUES, LIMES, PESTICIDES, HERBICIDES, WOOD PRESERVATIVES AND SOLVENTS; ASBESTOS FIBERS, PAINT FLAKES OR STUCCO FRAGMENTS; FUELS, OILS, LUBRICANTS, AND HYDRAULIC, RADIATOR OR BATTERY FLUIDS; FERTILIZERS, VEHICLE/EQUIPMENT WASH WATER AND CONCRETE WASH WATER; CONCRETE, DETERGENT OR FLOATABLE WASTES; WASTES FROM ANY ENGINE/EQUIPMENT STEAM CLEANING OR CHEMICAL DEGREASING AND SUPERCHLORINATED POTABLE WATER LINE FLUSHING. DURING CONSTRUCTION, PERMITTEE SHALL DISPOSE OF SUCH MATERIALS IN A WASHOUT BIN OR SPECIFIED AND CONTROLLED TEMPORARY AREA ON-SITE PHYSICALLY SEPARATED FROM POTENTIAL STORMWATER RUNOFF, WITH ULTIMATE DISPOSAL IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REQUIREMENTS.
10. DEWATERING OF CONTAMINATED GROUNDWATER, OR DISCHARGING CONTAMINATED SOILS VIA SURFACE EROSION IS PROHIBITED. DEWATERING OF NON-CONTAMINATED GROUNDWATER REQUIRES A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT FROM THE RESPECTIVE STATE REGIONAL WATER QUALITY CONTROL BOARD.
11. GRADED AREAS ON THE PERMITTED AREA PERIMETER MUST DRAIN AWAY FROM THE FACE OF SLOPES AT THE CONCLUSION OF EACH WORKING DAY. DRAINAGE IS TO BE DIRECTED TOWARD DESILTING FACILITIES.
12. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATER CREATES A HAZARDOUS CONDITION.
13. THE CONTRACTOR SHALL INSPECT THE EROSION CONTROL WORK AND INSURE THAT THE WORK IS IN ACCORDANCE WITH THE APPROVED PLANS.
14. THE GENERAL CONTRACTOR SHALL NOTIFY ALL SUBCONTRACTORS & MATERIAL SUPPLIERS: THAT DUMPING OF CHEMICALS INTO THE STORM DRAIN SYSTEM OR THE WATERSHED IS PROHIBITED.
15. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. NECESSARY MATERIALS SHALL BE AVAILABLE ON SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.

THE FOLLOWING BMPs AS OUTLINED IN, BUT NOT LIMITED TO, THE STORMWATER BEST MANAGEMENT PRACTICE HANDBOOK, CONSTRUCTION, CALIFORNIA STORMWATER QUALITY ASSOCIATION, LATEST EDITION, MAY APPLY DURING CONSTRUCTION (ADDITIONAL MEASURES MAY BE REQUIRED IF DEEMED APPROPRIATE BY INSPECTOR):

NON-STORMWATER MANAGEMENT & MATERIAL MANAGEMENT BMPs	EROSION & SEDIMENTAL CONTROL BMPs
NS-1 – WATER CONSERVATION PRACTICES	EC-1 – SCHEDULING
NS-2 – DEWATERING OPERATIONS	EC-2 – PRESERVATION OF EXISTING VEGETATION
NS-3 – PAVING AND GRINDING OPERATIONS	EC-7 – GEOTEXTILES & MATS
NS-6 – ILLICIT CONNECTION/DISCHARGE	EC-9 – EARTH DIKES AND DRAINAGE SWALES
NS-7 – POTABLE WATER/IRRIGATION	EC-11 – SLOPE DRAINS
NS-8 – VEHICLE AND EQUIPMENT CLEANING	SE-1 – SILT FENCE
NS-10 – VEHICLE AND EQUIPMENT MAINTENANCE	SE-2 – SEDIMENT BASIN
NS-12 – CONCRETE CURING	SE-3 – SEDIMENT TRAP
NS-13 – CONCRETE FINISHING	SE-4 – CHECK DAM
NS-14 – MATERIAL AND EQUIPMENT USE	SE-5 – FIBER ROLLS
WM-1 – MATERIAL DELIVERY AND STORAGE	SE-6 – GRAVEL BAG BERM
WM-2 – MATERIAL USE	SE-7 – STREET SWEEPING AND VACUUMING
WM-3 – STOCKPILE MANAGEMENT	SE-8 – SANDBAG BARRIER
WM-4 – SPILL PREVENTION AND CONTROL	SE-9 – STRAW BALE BARRIER
WM-5 – SOLID WASTE MANAGEMENT	SE-10 – STORM DRAIN INLET PROTECTION
WM-6 – HAZARDOUS WASTE MANAGEMENT	WE-1 – WIND EROSION CONTROL
WM-7 – CONTAMINATED SOIL MANAGEMENT	TC-1 – STABILIZED CONSTRUCTION ENTRANCE/EXIT
WM-8 – CONCRETE WASTE MANAGEMENT	TC-2 – STABILIZED CONSTRUCTION ROADWAY
WM-9 – SANITARY/SEPTIC WASTE MANAGEMENT	TC-3 – ENTRANCE/OUTLET TIRE WASH
WM-10 – LIQUID WASTE MANAGEMENT	

HORIZONTAL CONTROL

AN AUTOCAD 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.

BASIS OF BEARINGS

THE BASIS OF BEARINGS FOR THIS PROJECT IS NORTH 89°53'00" EAST ALONG THE CENTERLINE OF MILDRED STREET AS SHOWN ON TRACT NO.10776, MB 185/46-47.

BENCH MARK

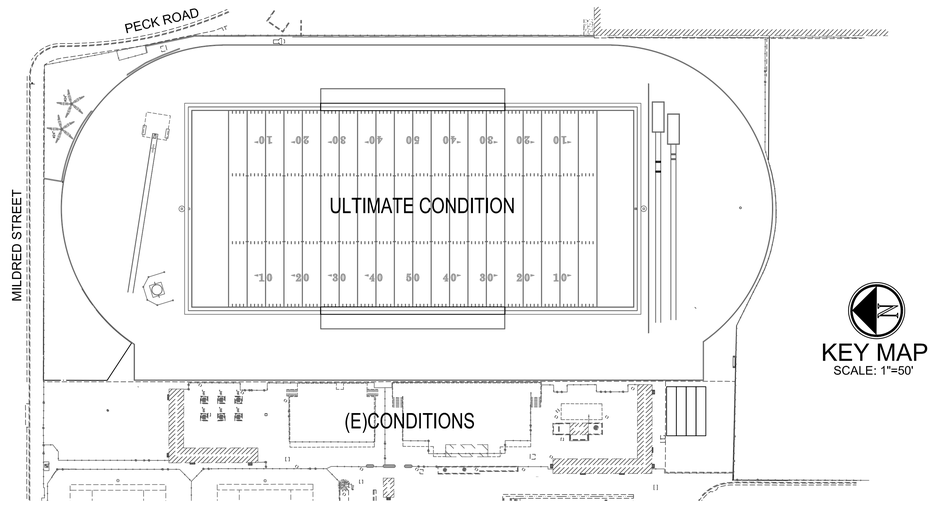
COUNTY OF LOS ANGELES BENCHMARK 4G4582

"DPW BM TAG IN E CB 1FT S/O BCR @ NE COR PECK RD & GARVEY AVE"

ELEVATION = 276.438' DATUM: NAVD 88 QUAD YEAR 2013

EXISTING UNDERGROUND STRUCTURES

THE LOCATIONS OF THE EXISTING UNDERGROUND UTILITIES, AS SHOWN ON THIS PLAN, WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. NO REPRESENTATION IS MADE AS TO THE ACCURACY OR COMPLETENESS OF SAID UTILITY INFORMATION. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE LOCATIONS OF SUCH UNDERGROUND UTILITIES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNERS OF THE UTILITIES OR STRUCTURES CONCERNED BEFORE STARTING WORK. CONTRACTOR SHALL VERIFY LOCATIONS OF EXISTING UTILITIES PRIOR TO ANY EXCAVATION OR IMPROVEMENT. THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN TO BE PROTECTED HEREON AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN HEREON.



KEY MAP
SCALE: 1"=50'

NOTE TO CONTRACTOR: BEFORE TRENCHING OCCURS, THE CONTRACTOR SHALL COMPLETE AN UNDERGROUND UTILITY MAPPING SURVEY ALONG THE PROPOSED TRENCHING ROUTE TO DETERMINE WERE EXISTING UTILITIES ARE AND WHERE POSSIBLE UNDERGROUND CONFLICTS MAY OCCUR.

NPDES STORM WATER CONSTRUCTION GENERAL PERMIT 2009-0009-DWQ (AS AMENDED BY 2010-0014-DWQ & 2012-006-DWQ):
BEFORE CONSTRUCTION ACTIVITY CAN COMMENCE A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) MUST BE IN PLACE AT THE CONSTRUCTION SITE AND A WASTE DISCHARGE IDENTIFICATION NUMBER (WDID#) OBTAINED FROM THE STATE WATER BOARD. THE CONTRACTOR IS RESPONSIBLE FOR THE PREPARATION AND PAYMENT OF THE SWPPP & OBTAINING THE WDID #. THE CONTRACTOR IS RESPONSIBLE FOR THE IMPLEMENTATION OF THE SWPPP BY UTILIZING A QUALIFIED SWPPP PRACTITIONER (QSP) AS DEFINED IN THE CONSTRUCTION GENERAL PERMIT. THIS INCLUDES MAINTENANCE OF EROSION AND SEDIMENT CONTROL DURING THE LIFE OF THE PROJECT AND SUBMITTAL OF THE ANNUAL REPORTS.

GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.

EARTHWORK NOTICE TO CONTRACTOR: NO EARTHWORK ANALYSIS HAS BEEN COMPLETED WITH RESPECT TO VOLUMES OF SOILS TO BE EXCAVATED, PLACED, OR IMPORTED IN ORDER TO PROVIDE THE FINISHED GRADES SHOWN ON THE PLANS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR VERIFYING THE EARTHWORK QUANTITIES NECESSARY TO COMPLETE THE PROJECT.

GRADING NOTE:
THE CONTRACTOR SHALL UTILIZE LASER-CONTROLLED EQUIPMENT FOR THE GRADING OF THE FIELD TO ENSURE ACCURACY IN GRADING TOLERANCES. FINISH GRADE OF CRUSHED AGGREGATE BASE MATERIAL SHALL NOT VARY FROM THE SPECIFIED GRADE SHOWN ON THIS PLAN BY MORE THAN 3/16" OR BY MORE THAN 3/16" WHEN MEASURED UNDER A 100 FOOT STRING LINE OR 10 FOOT STRAIGHT EDGE IN ALL DIRECTIONS.

STORM DRAIN COORDINATION NOTE:
THE CONTRACTOR INSTALLING THE NEW STORM DRAIN SYSTEM SHALL COORDINATE HIS WORK WITH OTHER TRADES INSTALLING ALL OTHER UNDERGROUND UTILITIES. WHERE PROPOSED UTILITIES CROSS THE NEW STORM DRAIN SYSTEM THE CONTRACTOR SHALL CONFIRM WHICH UTILITY CROSSES UNDER OR OVER THE STORM DRAIN SO AS TO NOT CAUSE A CONFLICT WITH THE NEW STORM DRAIN SYSTEM.

ABBREVIATIONS

ABND	ABANDONED	MH	MANHOLE
AC	ASPHALT PAVEMENT	NG	NATURAL GROUND
AP	ANGLE POINT	N.I.C.	NOT IN CONTRACT
BLDG	BUILDING	℄	PROPERTY LINE
BC	BEGINNING OF CURVE	PIV	POST INDICATOR VALVE
BW	BACK OF WALK	PP	POWER POLE
C.L.	CENTERLINE	RCE	REGISTERED CIVIL ENGINEER
CF	CURB FACE HEIGHT	RR	RAILROAD
CLF	CHAIN LINK FENCE	S	SLOPE
CONC	CONCRETE	SDMH	STORM DRAIN MANHOLE
DCV	DETECTOR CHECK VALVE	SL	STREET LIGHT
D.G.	DECOMPOSED GRANITE	SMH	SEWER MANHOLE
D/W	DRIVEWAY	S.P.P.W.C.	STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION (2021 EDITION).
DI	DROP INLET		
EP	EDGE OF PAVEMENT	S.S.P.W.C.	STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (GREEN BOOK), 2021 EDITION
EC	END OF CURVE		
EX	EXISTING		
FDC	FIRE DEPARTMENT CONNECTION	SW	SIDEWALK
FH	FIRE HYDRANT	TB	TOP OF BASE
FL	FLOWLINE	TC	TOP OF CURB
FS	FINISH SURFACE	TELE	TELEPHONE
GA	GUY ANCHOR	TG	TOP OF GRATE
GB	GRADE BREAK	TCO	TOP OF CLEANOUT
GP	GUARD POST	TH	TOP OF HEADER
GV	GAS VALVE	TS	TOP OF TRACK SURFACE
HB	HOSE BIBB	TW	TOP OF WALL
HP	HIGH POINT	TYP.	TYPICAL
ICV	IRRIGTION CONTROL VALVE	UDG	UNDERGROUND CONDUIT
INV	INVERT	UTIL	UTILITY
IP	IRON PIPE	WM	WATER METER
L	LENGTH	WV	WATER VALVE
LIP	LIP OF GUTTER	VIF	VERIFY IN FIELD
LP	LIGHT POLE	VLT	VAULT
L T & T	LEAD TACK AND TAG		

LEGEND

(S) SEWER MANHOLE	OVERHANG POST	–(276.0)– (E)CONTOUR ELEVATION
(SD) STORM DRAIN MANHOLE	SIGN POST	276.00 PROPOSED ELEVATION
(T) TELEPHONE MANHOLE	MAIL BOX	℄ PROPERTY LINE
FIRE HYDRANT	WIRE FENCE	℄ CENTERLINE
(C) SEWER CLEANOUT	CHAIN LINK FENCE	(ICV) IRRIGATION VALVE
WATER VALVE	BLOCK WALL	T TRASH ENCLOSURE
GAS VALVE	TREE	GRATE
WATER METER	FLOW DIRECTION	SLOPE
GAS METER	FS FINISHED SURFACE	CURVE DATA
(W) WATER VAULT	FF FINISHED FLOOR	CF CURB FACE
(G) GAS VAULT	SD (E)STORM DRAIN	INV INVERT
(T) TELEPHONE VAULT	W (E)DOMESTIC WATER	
(E) ELECTRIC VAULT	S (E)SANITARY SEWER	
(EPB) ELECTRIC PULLBOX	G (E)GAS	
GUY WIRE	E (E)ELECTRICAL/POWER	
LIGHT	C (E)COMMUNICATIONS	
	SD PROPOSED STORM DRAIN	

AGENCY APPROVAL:

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SS ☑ FLS ☑ ACS ☑
DATE: 10/27/2023

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ISSUE

Δ	DESCRIPTION	DATE

PLANS PREPARED BY:
FPL FPL and Associates, Inc.
Traffic • Transportation • Civil
30 Corporate Park, Suite 401
Irvine, CA 92606
PHONE: 949-252-1688

Alan Lee 1/5/2023
SIGNATURE DATE

REGISTERED PROFESSIONAL ENGINEER ALAN WING-CHI LEE No. C 34971 Exp. 09-30-23 CIVIL STATE OF CALIFORNIA

FACILITY:
EL MONTE HIGH SCHOOL
3048 TYLER AVE
EL MONTE, CA 91731

PROJECT:
EL MONTE HIGH SCHOOL TRACK AND FIELD EXISTING TRACK AND FIELD REPLACEMENT

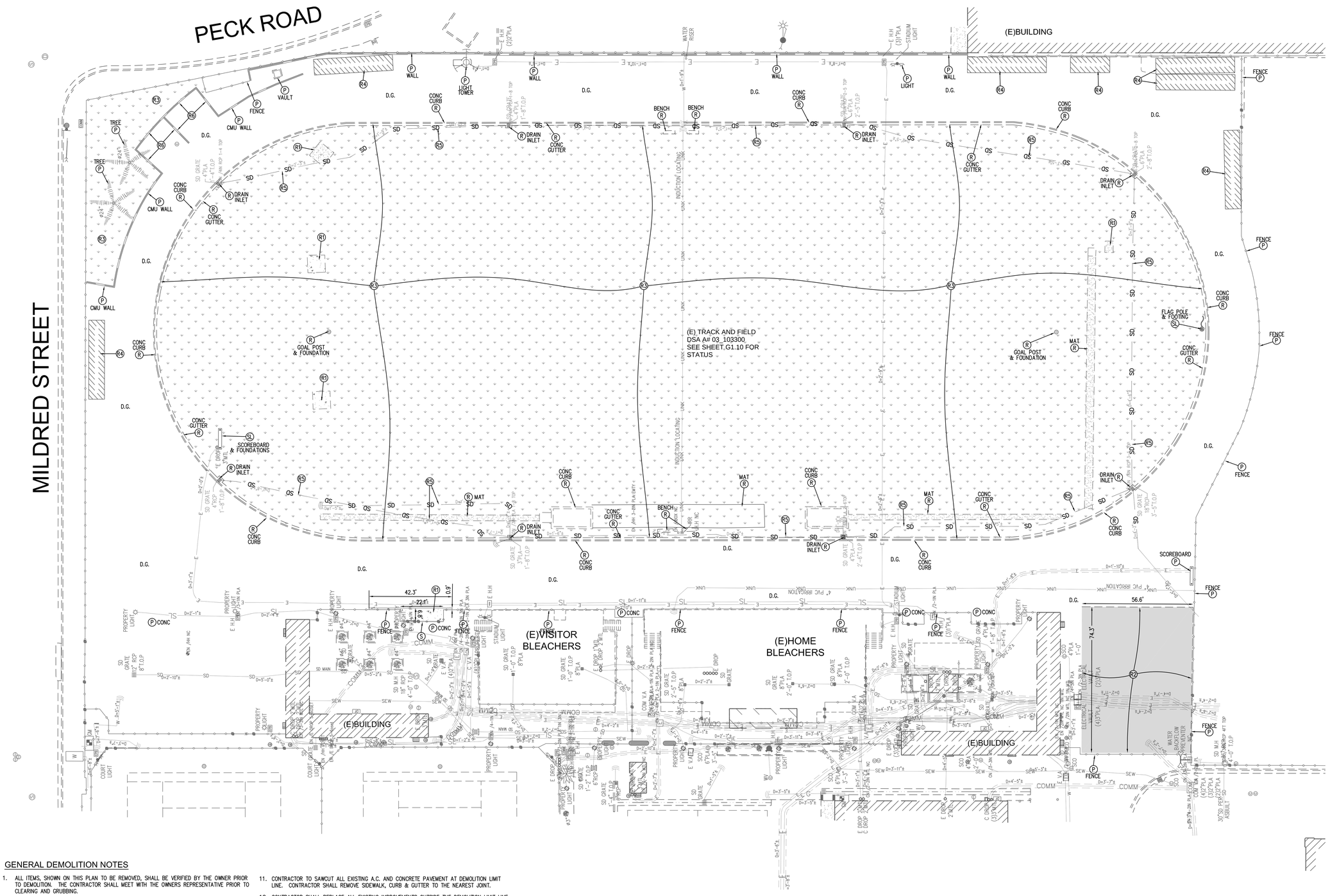
SHEET NAME:
SITE IMPROVEMENT PLAN TITLE SHEET

CONSTRUCTION DOCUMENTS

FAC NO.: BLDG NO.:
DATE: 07.11.2023 CLIENT PROJ NO:
SHEET:

C000

Plot Date: 1/9/2023 3:44:29 PM Last Save By: ron.canedy Login: Ron Canedy S:\Jobs\2733 - HMC Architects\2733cc - El Monte HS\Civil\El Monte HS - C000 Title Sheet.dwg



GENERAL DEMOLITION NOTES

1. ALL ITEMS, SHOWN ON THIS PLAN TO BE REMOVED, SHALL BE VERIFIED BY THE OWNER PRIOR TO DEMOLITION. THE CONTRACTOR SHALL MEET WITH THE OWNERS REPRESENTATIVE PRIOR TO CLEARING AND GRUBBING.
2. THE CONTRACTOR SHALL VERIFY THE LOCATION AND QUANTITY OF EXISTING SURFACE STRUCTURES AND SHALL BE SOLELY RESPONSIBLE FOR ANY UNIDENTIFIED UTILITIES, IMPROVEMENTS, TREES, ETC,. TO BE DEMOLISHED AND REMOVED WITHIN THE DEMOLITION LIMIT LINE, INCLUDING APPURTENANT FOUNDATIONS OR SUPPORTS.
3. REMOVAL OF LANDSCAPING SHALL INCLUDE ROOTS AND ORGANIC MATERIAL.
4. DUST CONTROL SHALL BE IMPLEMENTED DURING DEMOLITION.
5. DAMAGE TO ANY EXISTING UTILITIES AND SERVICES WHICH ARE TO REMAIN SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL REPAIR AND/OR REPLACE IN KIND.
6. TEMPORARY EROSION CONTROL MEASURES SHALL BE IMPLEMENTED TO PREVENT DEBRIS AND UNSUITABLE MATERIALS FROM ENTERING STORM DRAIN, SANITARY SEWERS AND STREETS.
7. THE CONTRACTOR SHALL DEMOLISH AND REMOVE ALL LANDSCAPING WATERING SYSTEMS WITHIN THE LIMITS OF WORK. WHERE THE DEMOLITION IMPACTS EXISTING LANDSCAPE TO REMAIN, MODIFY THE EXISTING IRRIGATION SYSTEM, INCLUDING ADDING IRRIGATION HEADS AS NECESSARY TO MAINTAIN COMPLETE AND FULL COVERAGE OF EXISTING PLANNING.
8. THE CONTRACTOR SHALL TRENCH AND REMOVE ALL EXISTING UNDERGROUND STRUCTURES, UTILITIES OR IMPROVEMENTS SO DESIGNATED FOR REMOVAL ON THE PROJECT PLANS AND BACKFILL TO THE EXISTING GRADE OR FUTURE GRADE AS SHOWN HEREON.
9. THE CONTRACTOR SHALL BACKFILL SOIL IN THE EXCAVATED TREE ROOT PITS AND THE TRENCHES FOR REMOVED EXISTING UNDERGROUND STRUCTURES, UTILITIES, AND IMPROVEMENTS.
10. THE CONTRACTOR SHALL NOT ABANDON-IN-PLACE ANY EXISTING UNDERGROUND STRUCTURE, UTILITY, OR IMPROVEMENT SO DESIGNATED FOR REMOVAL ON THE PROJECT PLANS UNLESS DIRECTED TO BY THE OWNER.
11. CONTRACTOR TO SAWCUT ALL EXISTING A.C. AND CONCRETE PAVEMENT AT DEMOLITION LIMIT LINE. CONTRACTOR SHALL REMOVE SIDEWALK, CURB & GUTTER TO THE NEAREST JOINT.
12. CONTRACTOR SHALL REPLACE ALL EXISTING IMPROVEMENTS OUTSIDE THE DEMOLITION LIMIT LINE THAT ARE DAMAGED DURING CONSTRUCTION TO MATCH EXISTING, INCLUDING PERMANENT TRENCH RESURFACING.
13. CONTRACTOR IS RESPONSIBLE TO KEEP ALL UTILITES OPERATIONAL THAT SERVES FACILITIES OUTSIDE THE SCOPE OF THE DEMOLITION ZONE.
14. CONTRACTOR SHALL INSTALL A MINIMUM 8' HIGH CONSTRUCTION FENCE AROUND PERIMETER OF DEMOLITION AREA.
15. ALL EXISTING DRAINAGE STRUCTURES ON SITE SHALL BE PROTECTED AND REMAIN FUNCTIONAL DURING DEMOLITION AND THROUGH THE CONSTRUCTION PERIOD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THESE STRUCTURES, OR DAMAGE CAUSED TO ADJACENT PROPERTIES DUE TO THE OBSTRUCTION OF THESE STRUCTURES.
16. ALL CONCRETE & CMU BLOCK WALLS & PLANTERS SHOWN ON THIS PLAN TO BE REMOVED SHALL INCLUDE WALL FOOTINGS & FOUNDATIONS IN THEIR REMOVAL.
17. THE PROVISIONS OF CALIFORNIA FIRE CODE CHAPTER 14 AND CALIFORNIA BUILDING CODE CHAPTER 37 SHALL BE ENFORCED ON THIS PROJECT.
18. ALL FENCING SHOWN ON THE DEMOLITION PLANS SHALL INCLUDE BELOW OR ABOVE GRADE CONCRETE FOUNDATIONS / FOOTINGS.

NOTE TO CONTRACTOR: BEFORE DEMOLITION OCCURS, THE CONTRACTOR SHALL COMPLETE HIS OWN UNDERGROUND UTILITY MAPPING SURVEY OF THE PROJECT SITE TO DETERMINE WERE EXISTING UTILITIES ARE AND WHERE POSSIBLE UNDERGROUND CONFLICTS MAY OCCUR.

UNDERGROUND UTILITY LINETYPE LEGEND:

SD — SD	(E)STORM DRAIN
W — W	(E)DOMESTIC WATER
S — S	(E)SANITARY SEWER
G — G	(E)GAS
E — E	(E)ELECTRICAL/POWER
C — C	(E)COMMUNICATIONS
F — F	(E)FIRE WATER

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Δ	DESCRIPTION	DATE

DEMOLITION NOTES:

- (P) PROTECT EXISTING IMPROVEMENTS IN PLACE.
- (S) SAWCUT EXISTING ASPHALT/CONCRETE PAVEMENT WITH CLEAN EDGE.
- (SL) REMOVE AND SALVAGE IMPROVEMENT TO BE INSTALLED IN NEW LOCATION.
- (R) REMOVE EXISTING IMPROVEMENT AND DISPOSE BY CONTRACTOR.
- (R1) REMOVE CONCRETE PAVEMENT AND BASE MATERIAL
- (R2) REMOVE ASPHALT PAVEMENT AND BASE MATERIAL
- (R3) CLEAR AND GRUB & DISPOSE OF EXISTING LANDSCAPE/TURF/BELOW GRADE IRRIGATION LINES.
- (R4) RELOCATE STORAGE CONTAINER PER OWNER'S DIRECTION.
- (R5) REMOVE EXISTING STORM DRAIN.
- (R6) REMOVE CMU WALL AND FOOTINGS.

HATCH LEGEND:

= EXISTING BUILDING

= REMOVE EXISTING ASPHALT PAVEMENT

= REMOVE EXISTING CONCRETE PAVEMENT

= REMOVE EXISTING LANDSCAPE

20 10 0 20 40 60
SCALE: 1" = 20'

PLANS PREPARED BY:
FPL and Associates, Inc.
Traffic • Transportation • Civil
30 Corporate Park, Suite 401
Irvine, CA 92606
PHONE: 949-252-1688

SIGNATURE 1/5/2023 DATE

REGISTERED PROFESSIONAL ENGINEER
No. C 34971
Exp. 09-30-23
CIVIL
STATE OF CALIFORNIA

FACILITY:
EL MONTE HIGH SCHOOL
3048 TYLER AVE
EL MONTE, CA 91731

PROJECT:
EL MONTE HIGH SCHOOL TRACK AND FIELD EXISTING TRACK AND FIELD REPLACEMENT

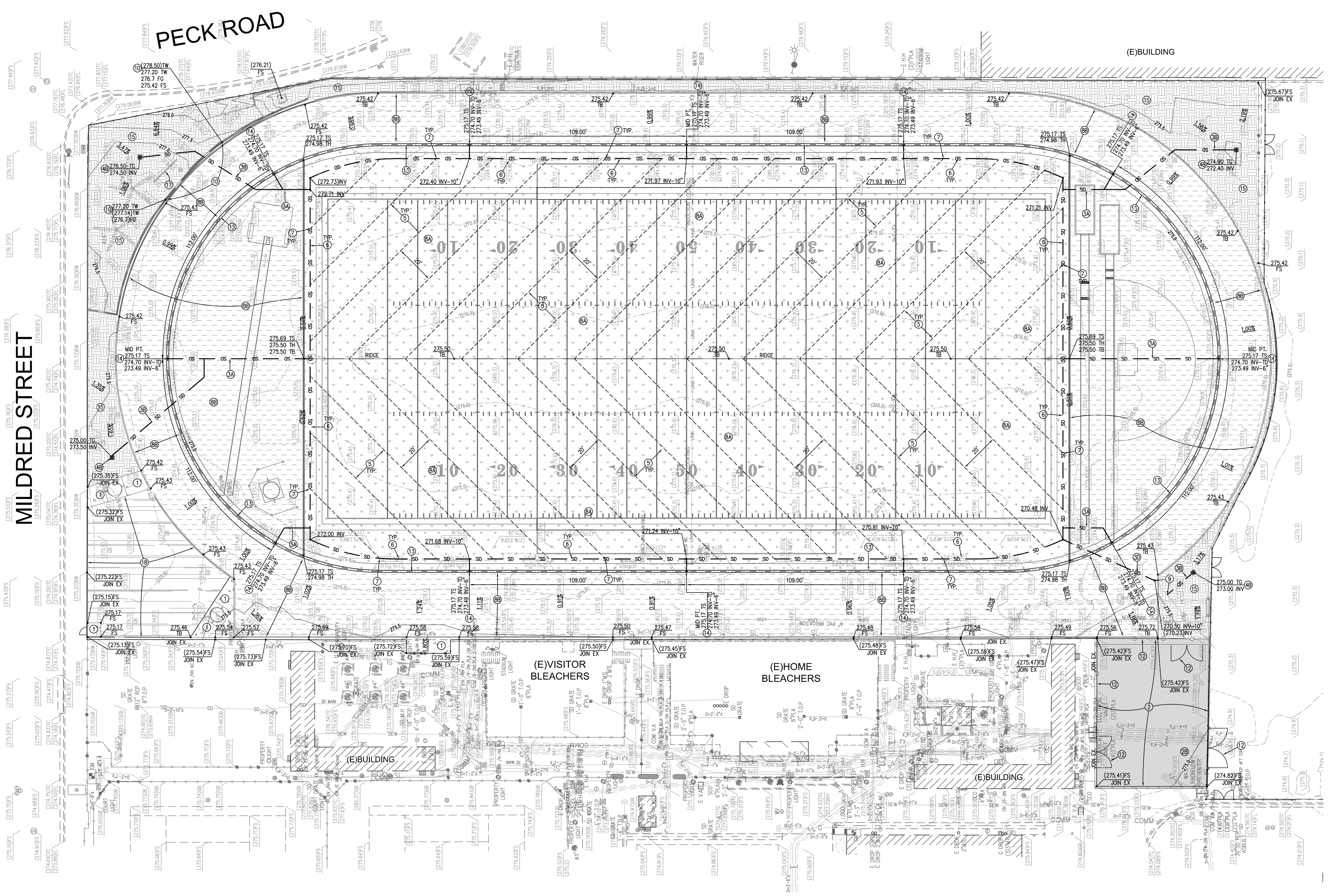
SHEET NAME:
DEMOLITION PLAN

CONSTRUCTION DOCUMENTS

FAC NO.:	BLDG NO.:
DATE: 07.11.2023	CLIENT PROJ NO:

SHEET: **C001**

Plot Date: 1/9/2023 3:45:13 PM Last Save By: ron.canedy Login: Ron Canedy S:\Jobs\2733 - HMC Architects\2733c - El Monte HS\Civil\El Monte HS - C001 Demolition Plan.dwg



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ONTARIO, CA 91764
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ISSUE

Δ	DESCRIPTION	DATE

CONSTRUCTION NOTES:

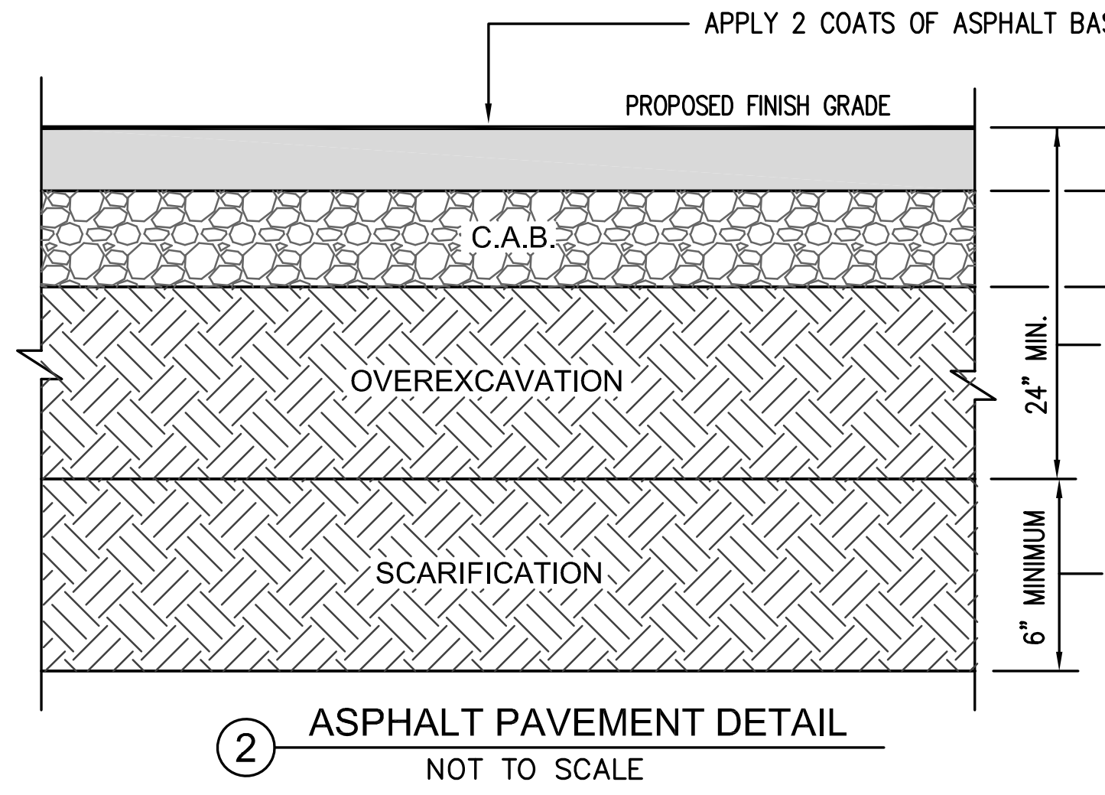
- Ⓟ PROTECT EXISTING IMPROVEMENTS IN PLACE.
- ① CONSTRUCT CONCRETE PAVEMENT PER DETAIL 1/C003.
- ② CONSTRUCT ASPHALT PAVEMENT PER DETAIL 2 HEREON.
- (3A) CONSTRUCT 4" SDR–35 P.V.C DRAINAGE PIPE. SEE CORRESPONDING TRENCH DETAIL ON SHEET C003.
- (3B) CONSTRUCT 6" SDR–35 P.V.C DRAINAGE PIPE. SEE CORRESPONDING TRENCH DETAIL ON SHEET C003.
- (3C) CONSTRUCT 8" SDR–35 P.V.C DRAINAGE PIPE. SEE CORRESPONDING TRENCH DETAIL ON SHEET C003.
- (3D) CONSTRUCT 10" SDR–35 P.V.C DRAINAGE PIPE. SEE CORRESPONDING TRENCH DETAIL ON SHEET C003.
- (4A) CONSTRUCT 18" SQUARE CATCH BASIN, PARKWAY GRATE, PER DETAIL 4A/C004.
- (4B) CONSTRUCT 18" SQUARE CATCH BASIN, HEEL–PROOF GRATE, PER DETAIL 4B/C004.
- ⑤ CONSTRUCT 1" HIGH x 12" WIDE HDPE FLAT DRAINAGE PIPE PER DETAIL 5/C004 AND SPACED PIPE AT 20' ON CENTER.
- ⑥ INSTALL 10" PERFORATED HDPE PIPE PER PERIMETER SUBDRAIN PER DETAIL 6/C004.
- ⑦ CONNECT FLAT DRAINAGE PIPE INTO 10" PERFORATED PIPE PER DETAIL 7/C004.
- (8A) CONSTRUCT SYNTHETIC TURF PER DETAIL 8A/C004.
- (8B) CONSTRUCT SYNTHETIC TRACK STRUCTURAL SECTION PER DETAIL 8B/C003.
- ⑨ CONNECT NEW STORM DRAIN LINE TO EXISTING STORM DRAIN LINE WITH APPROPRIATE FITTINGS.
- ⑩ CONSTRUCT CMU RETAINING WALL PER DETAIL 10/C003.
- ⑪ CONSTRUCT REDWOOD HEADER PER DETAIL 11/C003.
- ⑫ CONSTRUCT FENCE/GATE PER ARCHITECTURAL PLAN.
- ⑬ CONSTRUCT ACO 3000 SLOT DRAIN PER MANUFACTURER INSTRUCTIONS.
- ⑭ CONSTRUCT ACO 3000 CATCH BASIN PER MANUFACTURER INSTRUCTIONS.
- ⑮ LANDSCAPE/TURF PER LANDSCAPE ARCHITECT PLAN.
- ⑯ CONSTRUCT CONCRETE CURB PER DETAIL 16/C004.
- ⑰ ELECTRONIC SCOREBOARD, SEE DETAIL 7/A10.10 AND SPECIFICATION 11 65 00.
- ⑱ CONSTRUCT SHOT–PUT MIX PER LANDSCAPE PLANS.

GRADING NOTE:

FINAL AGGREGATE BASE GRADE SHALL BE ACHIEVED UTILIZING LASER GUIDED EQUIPMENT. SURFACE STABILITY SHALL BE SUCH THAT A LASER GUIDED MOTOR GRADER OR TRACTOR AND TOWED LASER GUIDED GANNON CAN FINE GRADE TO THE REQUIRED TOLERANCES LEAVING BEHIND NO TIRE TRACKS OR INDENTATIONS. IF NECESSARY, IN ORDER TO ATTAIN SURFACE STABILITY, CONTRACTOR SHALL ADD SMALL QUANTITIES OF FINE AGGREGATE AS APPROPRIATE TO ASSIST IN ATTAINMENT OF STABILITY. CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERY OF THE GRADED AGGREGATE BASE TO THE SATISFACTION OF THE OWNERS REPRESENTATIVE AT CONTRACTOR'S EXPENSE.

UNDERGROUND UTILITY COORDINATION NOTE:

THE CONTRACTOR IS RESPONSIBLE TO COORDINATE AND CONSTRUCT ALL UNDERGROUND UTILITIES SO THAT THE PROPOSED STORM DRAIN PIPES ARE INSTALLED AT THE ELEVATIONS SHOWN ON THESE PLANS. IF ELECTRICAL CONDUITS ARE INSTALLED PRIOR TO STORM DRAIN, THE CONTRACTOR MUST CONSTRUCT THE CONDUITS SO THEY DO NOT CLASH WITH GRAVITY LINES. CONTRACTOR IS RESPONSIBLE FOR ALL COSTS INCURRED IF GRAVITY LINES ARE NOT INSTALLED PER ELEVATIONS SHOWN HEREON.



APPLY 2 COATS OF ASPHALT BASED SEALCOAT PER SPECIFICATION 32 12 36.

3.0" THICK ASPHALT PAVEMENT: CLASS AND GRADE SHALL BE TYPE III, C3, PG–64–10, PER S.S.P.W.C. SECTION 203–6.4.3.

4.0" THICK CRUSHED AGGREGATE BASE (C.A.B.) MATERIAL, MEETING S.S.P.W.C. SECTION 200–2.2 PROVISIONS, COMPACTED TO A MINIMUM OF 95% DENSITY.

OVER–EXCAVATE EXISTING SOIL TO A DEPTH OF AT LEAST 24 INCHES BELOW PROPOSED FINISHED GRADE. REMOVED AND/OR OVEREXCAVATED NATIVE SOILS, EXCEPT ROOTS, DEBRIS AND ROCKS GREATER THAN 3–INCHES, MAY BE USED AS COMPACTED FILL. RECOMPACT TO A MINIMUM 90% PER ASTM D1557.

EXPOSED SURFACE SOILS SHALL BE SCARIFIED TO A DEPTH OF AT LEAST 6 INCHES AND MOISTURE CONDITIONED TO ACHIEVE APPROXIMATELY 2% ABOVE THE OPTIMUM MOISTURE CONTENT. RECOMPACT TO A MINIMUM 90% PER ASTM D1557.

② ASPHALT PAVEMENT DETAIL

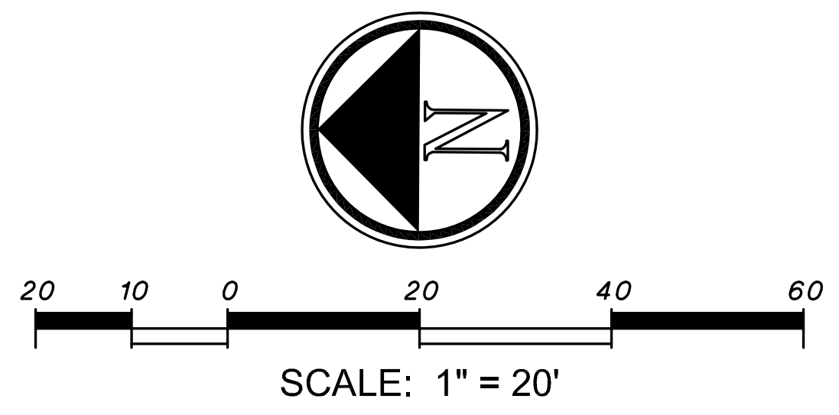
NOT TO SCALE

FLOOD TEST NOTE:

BEFORE ACCEPTANCE, ALL ASPHALT SHALL BE WATER TESTED TO ENSURE PROPER DRAINAGE AS DIRECTED BY THE INSPECTOR. THE CONTRACTOR SHALL PROVIDE WATER FOR THIS PURPOSE. THE FLOODING SHALL BE DONE BY WATER TANK TRUCK. DEPRESSIONS WHERE THE WATER PONDS TO A DEPTH OF MORE THAN 1/8–INCH SHALL BE FILLED OR THE SLOPE CORRECTED TO PROVIDE PROPER DRAINAGE. THE EDGES OF THE FILL SHALL BE FEATHERED AND SMOOTHED SO THAT THE JOINT BETWEEN THE FILL AND THE ORIGINAL SURFACE IS INVISIBLE. NO STANDING WATER SHALL REMAIN AFTER 60 MINUTES ON A 70 DEGREE F (OR WARMER) DAY. INSTALL FIRST COAT OF SEAL COAT ON ASPHALT BEFORE FLOOD TESTING OCCURS.

HATCH LEGEND:

▨	= EXISTING BUILDING
▒	= NEW ASPHALT PAVEMENT
░	= NEW CONCRETE PAVEMENT
░	= NEW ARTIFICIAL TURF (8A)
▤	= NEW SYNTHETIC TRACK SURFACE (8B)
▦	= NEW LANDSCAPE



SCALE: 1" = 20'

UNDERGROUND UTILITY LINETYPE LEGEND:

—— SD —— SD ——	NEW STORM DRAIN
—— SD —— SD ——	(E)STORM DRAIN
—— W —— W ——	(E)DOMESTIC WATER
—— S —— S ——	(E)SANITARY SEWER
—— G —— G ——	(E)GAS
—— E —— E ——	(E)ELECTRICAL/POWER
—— C —— C ——	(E)COMMUNICATIONS
—— F —— F ——	(E)FIRE WATER

PLANS PREPARED BY:

FPL and Associates, Inc.
Traffic • Transportation • Civil
30 Corporate Park, Suite 401
Irvine, CA 92606
PHONE: 949–252–1688

Alan Wing Chi Lee 1/5/2023
SIGNATURE DATE

ALAN WING–CHI LEE
No. C 34971
Exp. 09–30–23

FACILITY:

EL MONTE HIGH SCHOOL
3048 TYLER AVE
EL MONTE, CA 91731

PROJECT:

EL MONTE HIGH SCHOOL TRACK AND FIELD EXISTING TRACK AND FIELD REPLACEMENT

SHEET NAME:

GRADING PLAN

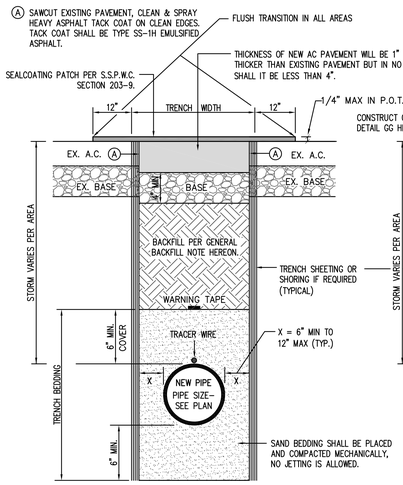
CONSTRUCTION DOCUMENTS

FAC NO.:
BLDG NO.:
DATE: **03 07.11.2023**
CLIENT PROJ NO:
SHEET:

C002

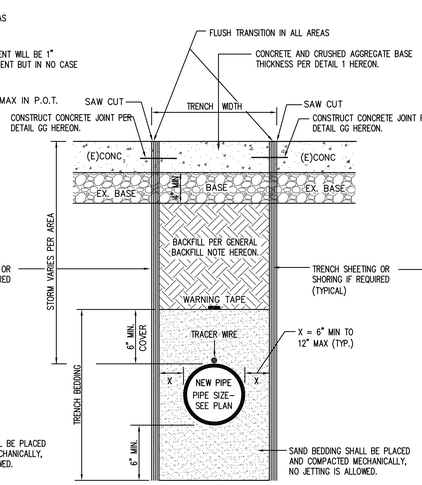
UTILITY TRENCHING DETAILS

NOT TO SCALE



EXISTING ASPHALT AREAS

N.T.S.



EXISTING CONCRETE AREAS

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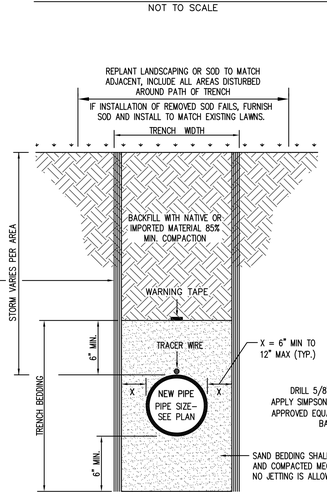
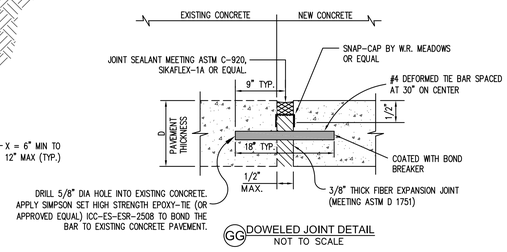


NEW OR EXISTING LANDSCAPED AREAS

N.T.S.



GG DOWELED JOINT DETAIL

NOT TO SCALE

TRENCH EXCAVATION, BEDDING, & BACKFILL NOTES:

EXCAVATION NOTE: THE 2019 CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH REGULATIONS (CAL/OSHA) WILL REQUIRE A PERMIT FOR THE CONSTRUCTION OF TRENCHES OR EXCAVATIONS WHICH ARE FIVE (5) FEET OR DEEPER AND INTO WHICH A PERSON IS REQUIRED TO DESCEND. FOR PERMIT PURPOSES, 'DESCEND' MEANS TO ENTER ANY PART OF THE TRENCH OR EXCAVATION ONCE THE EXCAVATION HAS ATTAINED A DEPTH OF 5 FEET OR MORE. FOR REGULATIONS RELATING TO PERMITS FOR EXCAVATIONS AND TRENCHES, REFER TO THE CALIFORNIA CODE OF REGULATIONS TITLE 8, CHAPTER 3.2, ARTICLE 2, SECTION 341 OF THE CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH REGULATIONS (CAL/OSHA)

THE CONTRACTOR SHALL SUBMIT A DETAIL SHOWING THE DESIGN OR SHORING; BRACING SLOPING OR OTHER PROVISIONS TO BE MADE FOR WORKER PROTECTION FROM THE HAZARDS OF CAVING GROUND DURING THE EXCAVATION. THE PLAN SUBMITTED SHALL BE SIGNED BY A REGISTERED CIVIL OR STRUCTURAL ENGINEER CERTIFIED THAT THE PLAN COMPLIES WITH ALL OSHA CONSTRUCTION SAFETY ORDERS.

BEDDING MATERIAL SHALL BE COARSE SAND WITH SAND EQUIVALENT OF 30 OR GREATER. NO ANGULAR STONES OR PEA GRAVELS WILL BE ALLOWED IN PIPE BEDDING.

COMPACTION METHODS: ALL BEDDING & BACKFILL COMPACTION SHALL BE BY HAND-OPERATED, PLATE-TYPE, VIBRATORY, OR OTHER SUITABLE HAND-TAMPERS IN AREAS NOT ACCESSIBLE TO LARGER ROLLERS OR COMPACTERS. EXTREME CARE SHALL BE TAKEN TO AVOID DAMAGE TO CONDUITS, PIPES, AND ANY APPURTENANCES. WATER DENSIFICATION BY INUNDATION OR JETTING SHALL NOT BE PERMITTED WITHOUT PRIOR WRITTEN APPROVAL FROM CIVIL ENGINEER.

SHEETING: WHEN EXCAVATION DEPTHS OR SOIL CONDITIONS REQUIRE SHORING OR USE OF A TRENCH BOX, THE BOTTOM OF THE SHORING OR TRENCH BOX SHOULD BE PLACED NO LOWER THEN THE TOP OF THE PIPE. THIS PREVENTS DISRUPTION OF THE BACKFILL ENVELOPE WHEN REMOVING THE SHORING OR TRENCH BOX. IF THIS PRACTICE CANNOT BE FOLLOWED, CONSIDERATION SHOULD BE GIVEN TO LEAVING THE SHORING IN PLACE.

GENERAL BACKFILL NOTES:

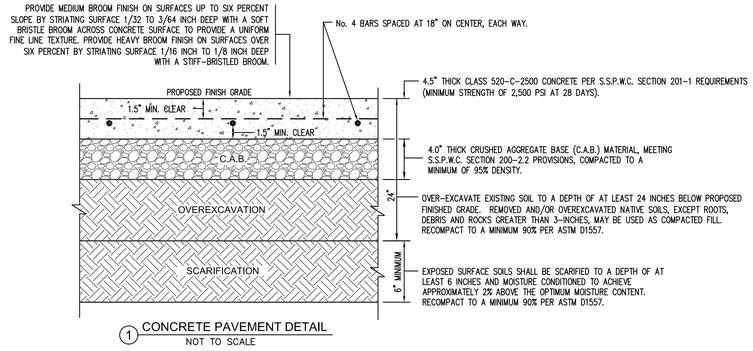
EXCAVATED TRENCH MATERIAL TO BE INSTALLED FOR BACKFILLING SHALL BE CLEAN, FREE OF LARGE CLODS AND STONES LARGER THAN 3-INCHES IN ANY DIMENSION. INSTALL BACKFILL MATERIALS IN LAYERS NOT TO EXCEED 8 TO 10-INCHES IN THICKNESS AND COMPACT TO A MINIMUM 90% OF THE MAXIMUM DENSITY. IN LIEU OF USING NATIVE MATERIAL IN PAVED AREAS, THE USE OF A SLURRY BACKFILL MAY BE SUBSTITUTED. SAND SLURRY SHALL CONSIST OF 1 SACK PORTLAND CEMENT (CLASS 100-E-100) PER CUBIC YARD OF SAND SLURRY MIX. THE CONTRACTOR IS RESPONSIBLE FOR DISPOSAL OF ANY EXCESS BACKFILL MATERIAL FROM THE SITE.

WARNING TAPE NOTES (STORM DRAIN):

A METALLIC LINED TAPED FOR UNDERGROUND PIPES, MARKED "CAUTION STORM DRAIN LINE BELOW", IN POLYETHYLENE FILM COLOR GREEN, INSTALLED ABOVE PIPE, 6" WIDE.

TRACER WIRE NOTES:

COPPER TRACER WIRE SHALL BE INSTALLED ON ALL NON-METALLIC PIPELINES, 2" AND GREATER, JUST ABOVE THE HORIZONTAL CENTERLINE OF THE PIPE. THE COPPER WIRE SHALL BE TYPE THWN #12 AWG GAUGE FOR SEWER, STORM & POTABLE WATER, #14 AWG GAUGE FOR IRRIGATION PIPES AND #18 AWG GAUGE FOR POLYETHYLENE GAS LINES. ALL TRACER WIRE SHALL HAVE HEAT AND MOISTURE RESISTANT INSULATION.



1 CONCRETE PAVEMENT DETAIL

NOT TO SCALE

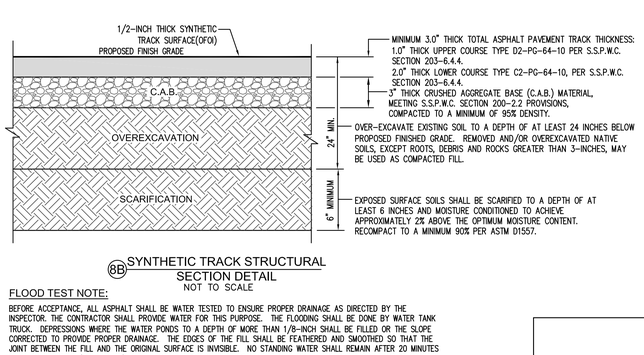
FLOOD TEST NOTE:

BEFORE ACCEPTANCE, ALL NEW CONCRETE SHALL BE WATER TESTED TO ENSURE PROPER DRAINAGE AS DIRECTED BY THE INSPECTOR. THE CONTRACTOR SHALL PROVIDE WATER FOR THIS PURPOSE. THE FLOODING SHALL BE DONE BY WATER TANK TRUCK. DEPRESSIONS WHERE THE WATER PONDS TO A DEPTH OF MORE THAN 1/8-INCH SHALL BE FILLED OR THE SLOPE CORRECTED TO PROVIDE PROPER DRAINAGE. THE EDGES OF THE FILL SHALL BE FEATHERED AND SMOOTHED SO THAT THE JOINT BETWEEN THE FILL AND THE ORIGINAL SURFACE IS INVISIBLE. NO STANDING WATER SHALL REMAIN AFTER 30 MINUTES ON A 70 DEGREE F (OR WARMER) DAY.

NOTE TO CONTRACTOR:

A. THE CONTRACTOR SHALL INSTALL EXPANSION AND CONTROL JOINTS IN CONCRETE FLATWORK AT LOCATIONS NOTED ON THE ARCHITECTURAL PLANS FOLLOWING DETAILS 'AA' THRU 'CC' HEREON.

B. CONTRACTOR SHALL FOLLOW DETAILS 'DD' THRU 'FF' HEREON WHEN CONSTRUCTING CONCRETE FLATWORK EDGE TREATMENTS.

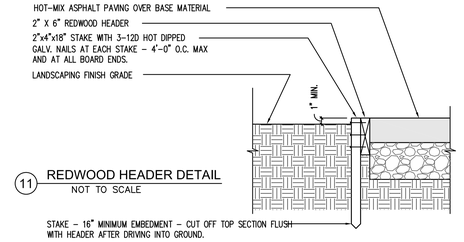


8B SYNTHETIC TRACK STRUCTURAL SECTION DETAIL

NOT TO SCALE

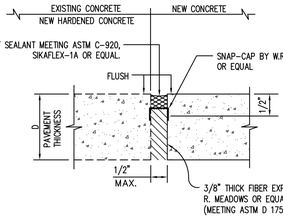
FLOOD TEST NOTE:

BEFORE ACCEPTANCE, ALL ASPHALT SHALL BE WATER TESTED TO ENSURE PROPER DRAINAGE AS DIRECTED BY THE INSPECTOR. THE CONTRACTOR SHALL PROVIDE WATER FOR THIS PURPOSE. THE FLOODING SHALL BE DONE BY WATER TANK TRUCK. DEPRESSIONS WHERE THE WATER PONDS TO A DEPTH OF MORE THAN 1/8-INCH SHALL BE FILLED OR THE SLOPE CORRECTED TO PROVIDE PROPER DRAINAGE. THE EDGES OF THE FILL SHALL BE FEATHERED AND SMOOTHED SO THAT THE JOINT BETWEEN THE FILL AND THE ORIGINAL SURFACE IS INVISIBLE. NO STANDING WATER SHALL REMAIN AFTER 20 MINUTES ON A 70 DEGREE F (OR WARMER) DAY. INSTALL FIRST COAT OF SEAL COAT ON ASPHALT BEFORE FLOOD TESTING OCCURS.



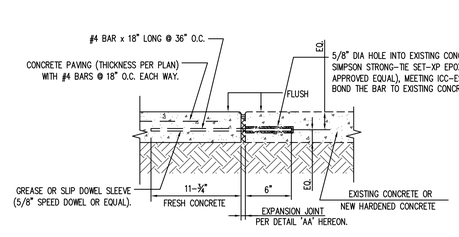
11 REDWOOD HEADER DETAIL

NOT TO SCALE



AA EXPANSION JOINT (E.J.)

NOT TO SCALE

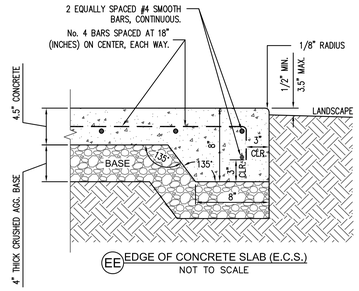


NOTE: 1. VERTICAL CHANGE IN ELEVATION ALONG ACCESSIBLE PATH OF TRAVEL CANNOT EXCEED 1/4" PER CBC 11B-303.2

2. LEVEL CHANGE BETWEEN 1/4"-1/2" MUST BE BEVELED AT 1:2 MAX PER CBC 11B-303.3

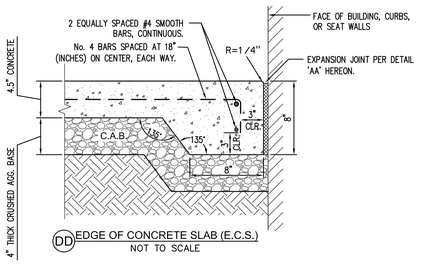
CC EXPANSION JOINT (E.J.) WITH REBAR

NOT TO SCALE



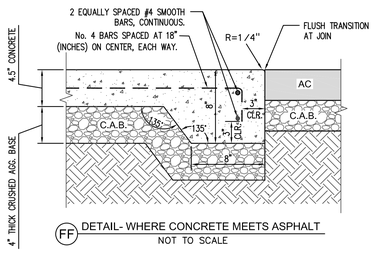
EE EDGE OF CONCRETE SLAB (E.C.S.)

NOT TO SCALE



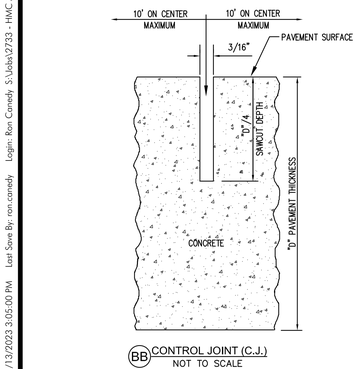
DD EDGE OF CONCRETE SLAB (E.C.S.)

NOT TO SCALE



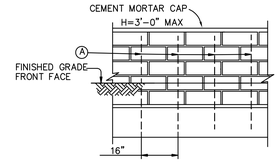
FF DETAIL- WHERE CONCRETE MEETS ASPHALT

NOT TO SCALE



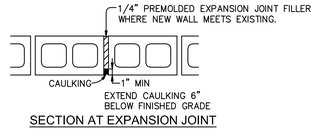
BB CONTROL JOINT (C.J.)

NOT TO SCALE

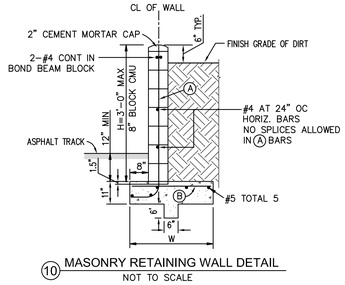


ELEVATION

DESIGN H	2'-10"	3'-6"
W	2'-8"	3'-0"
(A) BARS	#5 @ 16"	#5 @ 16"
(B) BARS	#5 @ 16"	#5 @ 16"



SECTION AT EXPANSION JOINT



10 MASONRY RETAINING WALL DETAIL

NOT TO SCALE

MASONRY WALL NOTES

1. FILL ALL CMU BLOCK CELLS WITH GROUT PER CBC 2103A.3. MORTAR GROUT, SHALL BE TYPE S PER CBC 2103A.2.1 AND SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH F'm OF 2,000 PSI IN 28 DAYS AND MORTAR SHALL ATTAIN F'm 1,800 PSI IN 28 DAYS. ALL CELLS SHALL BE FILLED WITH GROUT, ROD OR VIBRATE CONSOLIDATION. BRING GROUT TO A POIN 2" FROM THE TOP OF THE MASONRY UNITS WHEN GROUTING OF SECOND LIFTS IS TO BE CONTINUED AT ANOTHER TIME.
2. FOOTING CONCRETE SHALL BE 560-C-3250, 3250 PSI AT 28 DAYS.
3. 8" CONCRETE MASONRY (CMU) SHALL BE NORMAL-WEIGHT UNITS CONFORMING TO ASTM C-90 WITH FLUSH JOINT FINISH, FULLY GROUTED.
4. ALL REINFORCED STEEL SHALL CONFORM TO ACI 318-14 20.2 AND ASTM A615 GRADE 60.
5. NO BACKFILL MATERIAL SHALL BE PLACED AGAINST MASONRY RETAINING WALLS UNTIL GROUT HAS REACHED DESIGN STRENGTH OR UNTIL GROUT HAS CURED FOR A MINIMUM OF 28 DAYS. COMPACTION OF BACKFILL MATERIAL BY JETTING OR PONDING WITH WATER WILL NOT BE PERMITTED. EACH LAYER OF BACKFILL SHALL BE MOISTENED AS DIRECTED BY THE SOILS ENGINEER AND THOROUGHLY TAMPED, ROLLED OR OTHERWISE COMPACTED UNTIL THE RELATIVE COMPACTING IS NOT LESS THAN 90%.
6. ALL FOOTINGS SHALL EXTEND AT LEAST 12" INTO UNDISTURBED NATURAL SOIL OR APPROVED COMPACTED FILL. SOIL SHOULD BE DAMPENED PRIOR TO PLACING CONCRETE IN FOOTINGS.

AGENCY APPROVAL:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122306 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/27/2023

HMC Architects
3361004000
8546 CONCOURS STREET
ONTARIO, CA 91764
909 989 9979 / www.hmcarchitects.com

ISSUE

Δ	DESCRIPTION	DATE

PLANS PREPARED BY:
FPL FPL and Associates, Inc.
Traffic • Transportation • Civil
30 Corporate Park, Suite 401
Irvine, CA 92606
PHONE: 949-252-1688

REGISTERED PROFESSIONAL ENGINEER ALAN WING-CHI LEE No. C 34971 Exp. 09-30-23 CIVIL STATE OF CALIFORNIA

1/5/2023

FACILITY:

EL MONTE HIGH SCHOOL

3048 TYLER AVE
EL MONTE, CA 91731

PROJECT:

EL MONTE HIGH SCHOOL TRACK AND FIELD EXISTING TRACK AND FIELD REPLACEMENT

SHEET NAME:

DETAIL SHEET

CONSTRUCTION DOCUMENTS

FAC NO.: BLDG NO.:

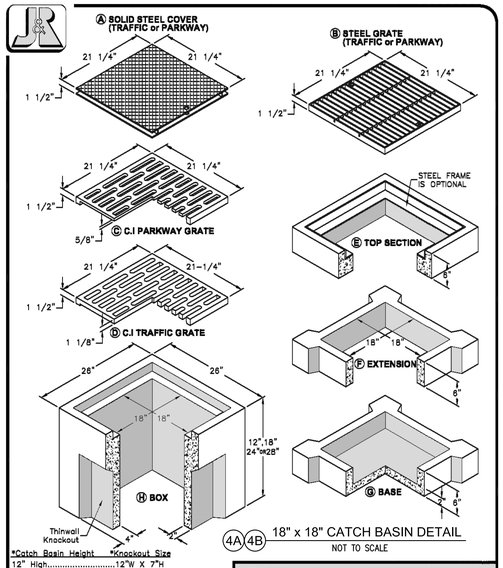
DATE: 03 07.11.2023 CLIENT PROJ NO:

SHEET:

C003

PLEASE RECYCLE

Plot Date: 4/13/2023 3:05:00 PM Last Save By: ron canedy Login: Ron Canedy S:\Jobs\2733 - HMC Architects\2733cc - El Monte HS\Civil\El Monte HS - C003 Detail Sheet.dwg

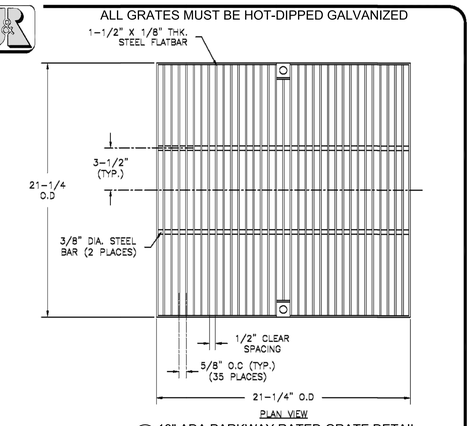


4A 4B 18" x 18" CATCH BASIN DETAIL
NOT TO SCALE

NOTES
1. Steel Traffic Frames W/ Steel TFC Covers Or Steel TFC Grates Are Designed For AASHTO H-20 Wheel Loading, But Are Not Intended For Direct Traffic Installations.
2. Steel Frames W/ Steel Parkway Covers Or Steel Parkway Grates, Are Designed For A Live Load Of 300 p.s.f.
3. Cast Iron Traffic Grates Are Designed For AASHTO H-10 Wheel Loading, But Are Not Intended For Direct Traffic Installations
4. Cast Iron Parkway Grates Are Designed For 300 p.s.f Wheel Loading.

CB1818 SERIES
18" X 18" CATCH BASIN

ALL GRATES MUST BE HOT-DIPPED GALVANIZED

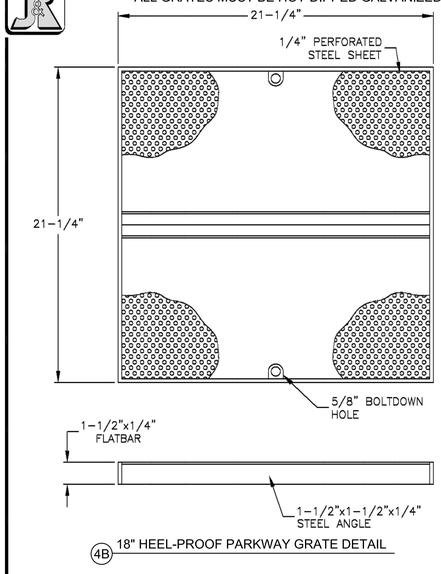


4A 18" ADA PARKWAY RATED GRATE DETAIL

18" X 18" STEEL PARKWAY GRATE per ADA SPECIFICATIONS

1. All steel shall conform to ASTM A36.
2. Grate conforms to ADA requirements.
3. Galvanizing is available upon request.
4. Structures are designed for AASHTO 300 p.s.f Wheel Loading.

ALL GRATES MUST BE HOT-DIPPED GALVANIZED



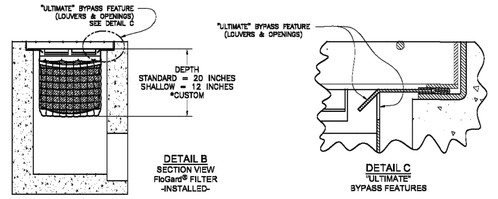
4B 18" HEEL-PROOF PARKWAY GRATE DETAIL

18" X 18" STEEL HEEL-PROOF BOLTDOWN PARKWAY GRATE

NOTES
1. Steel Frames W/ Steel Parkway Covers Or Steel Parkway Grates, Are Designed For A Live Load Of 300 p.s.f.

FGP-0001

U.S. PATENT # 6,00,023 & 6,877,029



* MANY OTHER STANDARD & CUSTOM SIZES & DEPTHS AVAILABLE UPON REQUEST.

SPECIFIER CHART

MODEL NO. STANDARD DEPTH	STANDARD & SHALLOW DEPTH (Data in these colum is the same for both STANDARD & SHALLOW versions)			STANDARD DEPTH -20 Inches-		MODEL NO. SHALLOW DEPTH	SHALLOW DEPTH -12 Inches-	
	INLET ID Inside Dimension (inch x inch)	GRATE OD Outside Dimension (inch x inch)	TOTAL BYPASS CAPACITY (cu. ft. / sec.)	SOLIDS STORAGE CAPACITY (cu. ft.)	FILTERED FLOW (cu. ft. / sec.)		SOLIDS STORAGE CAPACITY (cu. ft.)	FILTERED FLOW (cu. ft. / sec.)
FGP-12F	12 X 12	12 X 14	2.8	0.3	0.4	FGP-12FB	.15	.25
FGP-16F	16 X 16	16 X 19	4.7	0.6	0.7	FGP-16FB	.45	.4
FGP-18F	18 X 18	18 X 20	4.7	0.8	0.7	FGP-18FB	.45	.4
FGP-1824F	18 X 22	18 X 24	5.0	1.5	1.2	FGP-1824FB	.85	.7
FGP-1836F	18 X 36	18 X 40	8.9	2.3	1.8	FGP-1836FB	1.3	.9
FGP-2024F	18 X 22	20 X 24	5.9	1.2	1.0	FGP-2024FB	.7	.55
FGP-21F	22 X 22	22 X 24	6.1	2.2	1.5	FGP-21FB	1.25	.85
FGP-24F	24 X 24	24 X 27	6.1	2.2	1.5	FGP-24FB	1.25	.85
FGP-2430F	24 X 30	26 X 30	7.0	2.8	1.8	FGP-2430FB	1.6	1.05
FGP-2436F	24 X 36	24 X 40	8.0	3.4	2.0	FGP-2436FB	1.95	1.15
FGP-2448F	24 X 48	26 X 48	9.3	4.4	2.4	FGP-2448FB	2.5	1.35
FGP-28F	28 X 28	32 X 32	8.3	2.2	1.5	FGP-28FB	1.25	.85
FGP-30F	30 X 30	30 X 34	8.1	3.9	2.0	FGP-30FB	2.05	1.15
FGP-36F	36 X 36	36 X 40	9.1	4.8	2.4	FGP-36FB	2.65	1.35
FGP-3648F	36 X 48	40 X 48	11.5	6.8	3.2	FGP-3648FB	3.9	1.85
FGP-48F	48 X 48	48 X 54	13.2	9.5	3.9	FGP-48FB	5.45	2.25
FGP-SD24F	24 X 24	28 X 28	8.1	2.2	1.5	FGP-SD24FB	1.25	.85

FloGard®
Catch Basin Insert Filter
Grated Inlet Style
Inlet Filtration

Oldcastle® Stormwater Solutions
7921 Southpark Plaza, Suite 200 | Littleton, CO | 80120 | Ph: 800.579.5819 | oldcastlestormwater.com
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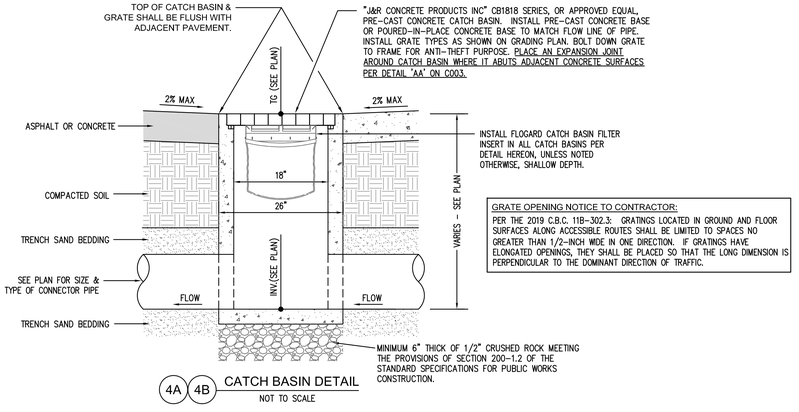
DRAWING NO.	REV	BY	DATE	SHEET
FGP-0001	G	JPR 7/13/16	JPR 11/3/06	SHEET 2 OF 2

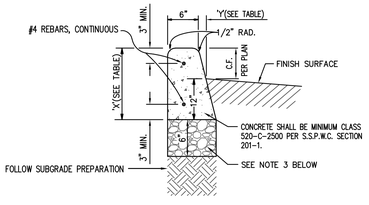
FLOGARD CATCH BASIN INSERT FILTER
NOT TO SCALE



GRATE OPENING NOTICE TO CONTRACTOR:
PER THE 2019 C.B.C. 118-302.3: GRATINGS LOCATED IN GROUND AND FLOOR SURFACES ALONG ACCESSIBLE ROUTES SHALL BE LIMITED TO SPACES NO GREATER THAN 1/2-INCH WIDE IN ONE DIRECTION. IF GRATINGS HAVE ELONGATED OPENINGS, THEY SHALL BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAFFIC.

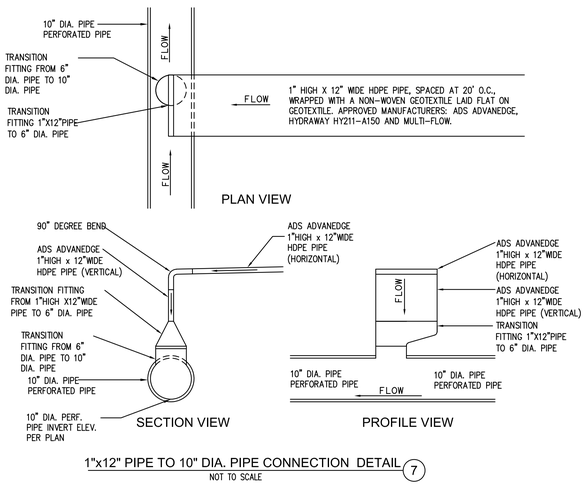
4A 4B CATCH BASIN DETAIL
NOT TO SCALE

CURB FACE	0"	4"	5"	6"	8"	9"
"X"	12"	16"	17"	18"	20"	21"
"Y"	0"	1"	1.25"	1.5"	2"	2"

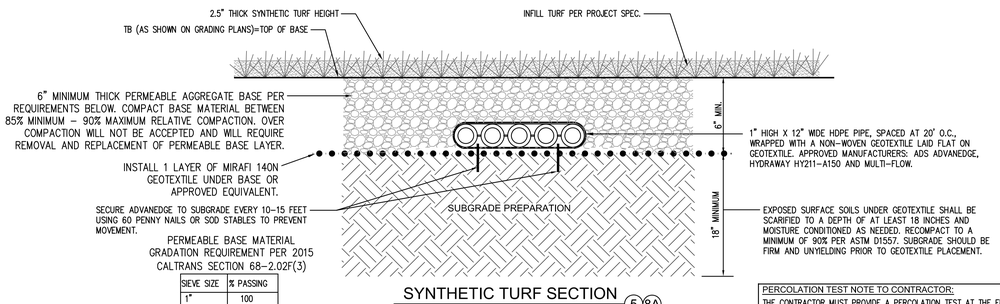


16 CONCRETE CURB DETAIL
NOT TO SCALE

GENERAL NOTES:
1. ALL EXPOSED EDGES SHALL HAVE A 1/2" RADIUS.
2. CONTROL JOINTS SHALL BE PLACED IN CURBING AT REGULAR INTERVALS OF 10'. EXPANSION JOINTS AT 30' INTERVALS, AND AT DRIVE APPROACHES, B.C.'S, E.C.'S, CROSS GUTTERS AND CATCH BASIN TRANSITIONS PER DETAILS ON C005
3. A 6" THICK LAYER OF CRUSHED AGGREGATE BASE SHALL BE PLACED UNDER ALL CURB. MINIMUM COMPACTION OF 95% RELATIVE DENSITY UNLESS WAIVED BY CIVIL ENGINEER.
4. CONCRETE SHALL BE MINIMUM CLASS 520-C-2500 PER S.S.P.W.C. SECTION 201-1.
5. PLACE NO. 4 REBARS 3" MINIMUM FROM TOP AND BOTTOM OF CURB.



1"x12" PIPE TO 10" DIA. PIPE CONNECTION DETAIL 7
NOT TO SCALE

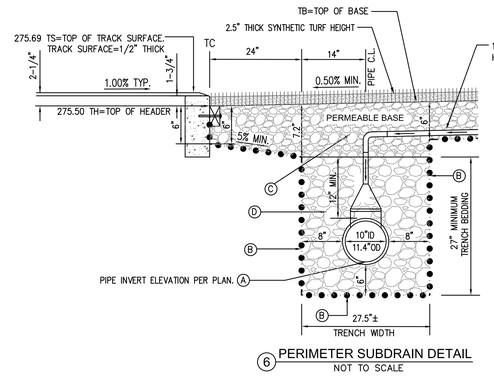


PERMEABLE BASE MATERIAL GRADATION REQUIREMENT PER 2015 CALTRANS SECTION 68-2.02F(3)

SIEVE SIZE	% PASSING
1"	100
3/4"	90-100
3/8"	40-100
No. 4	25-40
No. 8	18-33
No. 30	5-15
No. 50	0-7
No. 200	0-3

SYNTHETIC TURF SECTION 5 8A
NOT TO SCALE

PERCOLATION TEST NOTE TO CONTRACTOR:
THE CONTRACTOR MUST PROVIDE A PERCOLATION TEST AT THE END ZONES AND 50 YARD LINE OF THE FIELD AFTER THE PERMEABLE AGGREGATE BASE HAS BEEN COMPACTED TO THE REQUIREMENTS LISTED IN THE SYNTHETIC TURF SECTION DETAIL ABOVE. THE PERCOLATION TEST SHALL COMPLY WITH ASTM D2434, THE STANDARD TEST METHOD FOR MEASUREMENT OF HYDRAULIC CONDUCTIVITY OF COARSE-GRAINED SOILS. CONTRACTOR SHALL PROVIDE THE RESULTS OF THE TEST TO THE ARCHITECT. THE MINIMUM ACCEPTABLE RATE WILL BE 7 INCHES PER HOUR UNLESS APPROVED OTHERWISE BY THE CIVIL ENGINEER.



SUBDRAIN NOTES:
A. 10" PERFORATED DUAL WALL HDPE PIPE BY ADS, PRINSCO OR EQUAL. PIPE SHALL BE INSTALLED WITH PERFORATIONS DOWN. PERFORATIONS SHALL BE 1/2 INCH IN DIAMETER PLACED AT THE ENDS OF A 120-DEGREE ARC IN TWO ROWS AT 5 INCHES ON CENTER.
B. GEOTEXTILE SHOULD BE MIRAFI 140N, OR APPROVED EQUIVALENT WITH 12" MINIMUM OVERLAP AT SEAM. INSTALL 1 LAYER OF GEOTEXTILE UNDER CRUSTED ROCK.
C. PERMEABLE BASE PER CALTRANS SECTION 68-2.02F(E)

PERMEABLE BASE MATERIAL GRADATION REQUIREMENT PER 2015 CALTRANS SECTION 68-2.02F(3)

SIEVE SIZE	% PASSING
1"	100
3/4"	90-100
3/8"	40-100
No. 4	25-40
No. 8	18-33
No. 30	5-15
No. 50	0-7
No. 200	0-3

D. 3/4" WASHED CRUSHED ROCK (ASTM #67)

SIEVE SIZE	% PASSING
1"	100
3/4"	90-100
3/8"	20-55
No. 4	0-10
No. 8	0-5
No. 200	0-1

6 PERIMETER SUBDRAIN DETAIL
NOT TO SCALE

AGENCY APPROVAL:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122306 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/27/2023

HMC Architects
3361004000
8546 CONCOURS STREET
ONTARIO, CA 91764
909 989 9979 / www.hmcarchitects.com

ISSUE

Δ	DESCRIPTION	DATE

PLANS PREPARED BY:
FPL FPL and Associates, Inc.
Traffic • Transportation • Civil
30 Corporate Park, Suite 401
Irvine, CA 92606
PHONE: 949-252-1688
1/5/2023
SIGNATURE DATE
REGISTERED PROFESSIONAL ENGINEER ALAN WAYNE RITTER No. C 34971 Exp. 09-30-23 CIVIL STATE OF CALIFORNIA

FACILITY:
EL MONTE HIGH SCHOOL
3048 TYLER AVE
EL MONTE, CA 91731

PROJECT:
EL MONTE HIGH SCHOOL TRACK AND FIELD EXISTING TRACK AND FIELD REPLACEMENT

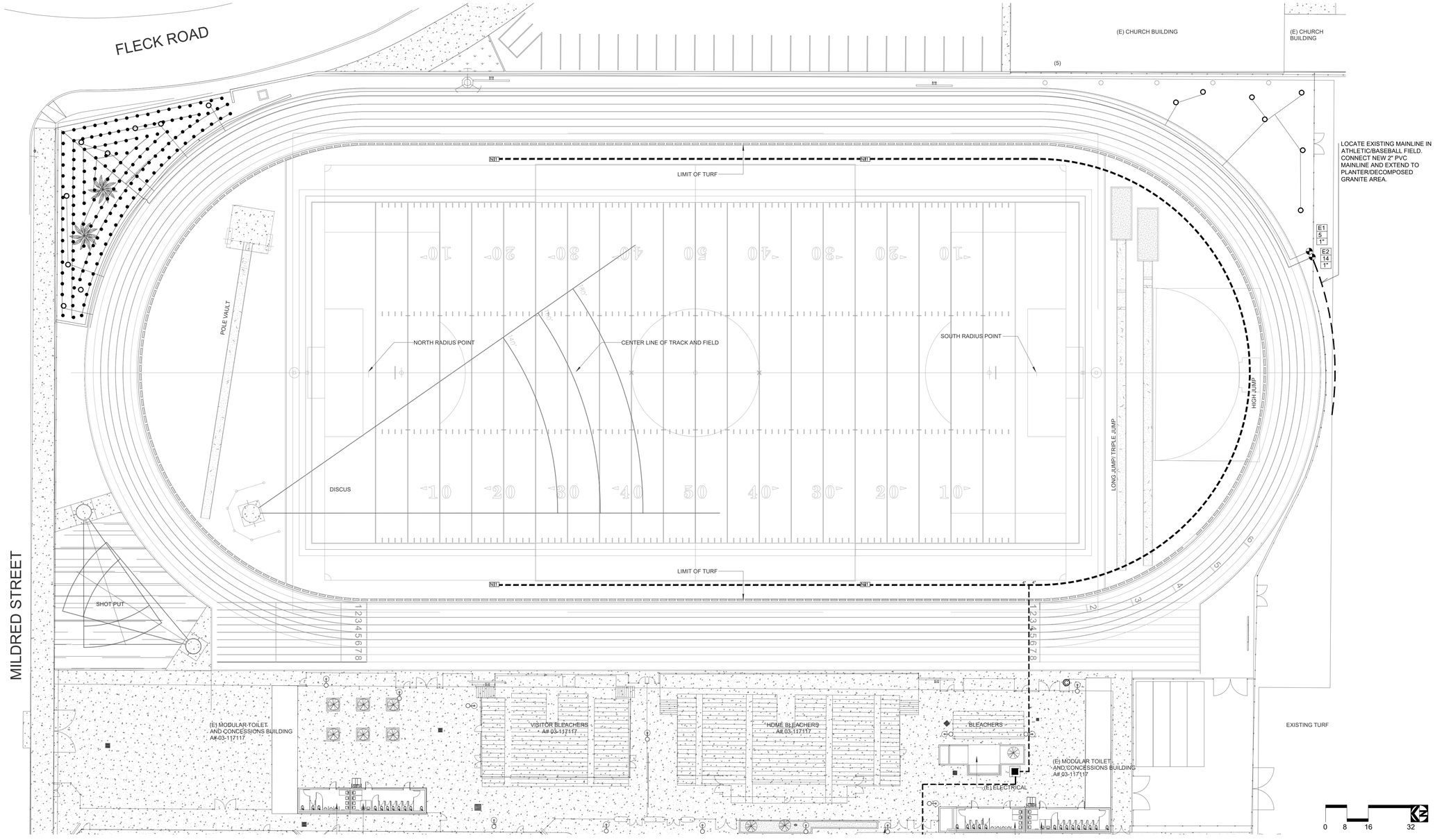
SHEET NAME:
DETAIL SHEET

CONSTRUCTION DOCUMENTS

FAC NO.: BLDG NO.:
DATE: **07.11.2023** CLIENT PROJ NO:
SHEET:

C004

THE LINE SHOWN ABOVE IS EXACTLY 1 INCH ON ANSI D SHEETS ORIGINAL PAGE SIZE



IRRIGATION LEGEND

SYM	DESCRIPTION	GPM	PSI	RAD	DETAIL
NTS	TORO TS170V KIT W/#16 NOZZLE	151	100	137'	
	4" WASH-DOWN SYSTEM MAINLINE CLASS 200 PVC GASKETED W/LEEMCO JOINT RESTRAINTS PER TABLE.				
■	WATTS 403RT-RW W/OPERATING NUT				
■	BARRETT ENGINEERED PUMPS BOOSTER PUMP CONTACT: GPS@EARTHLINK.NET - DARYL GREEN				
Ⓟ	POINT OF CONNECTION FURNISH AND INSTALL WATTS 403RT GATE VALVE. INSTALL VALVE IN AN APPROVED TRAFFIC RATED CONCRETE VAVLE BOX.				
Ⓒ	COACH'S SWITCH IMPERIAL TECHNICAL SERVICES CONTROLLER. CONTACT: GPS@EARTHLINK.NET - DARYL GREEN				

IRRIGATION LEGEND

SYM	DESCRIPTION	GPM	PSI	RAD	PR
⊙	RAINBIRD PCT-05 ON SCH. 80 RISER 2" ABOVE GRADE. FOUR PER TREE EQUALLY SPACED.	4 @ .083	15-50	---	
●	RAINBIRD PCT-05 ON SCH. 80 RISER 2" ABOVE GRADE. FOUR PER TREE EQUALLY SPACED.	4 @ .083	15-50	---	
	SCH 40 1" PVC LATERAL PIPE				
1.25"	SCH 40 1-1/4" PVC LATERAL PIPE				
1.0"	SCH 40 1-1/2" PVC LATERAL PIPE				
2"	SCH 40 2" PVC LATERAL PIPE				
	EXISTING 4" TRANSITE MAINLINE				
	CLASS 200 4" GASKETED PVC MAINLINE				
●	RAINBIRD LFV-100 WITH 30-PSI SENNINGER, OR EQUAL, PRESSURE REDUCER AND 1" AMIAD COMPACT 800-MESH FILTER. INSTALL PER INDUSTRY STANDARDS.				
	SUPERIOR 950-PRS-NC REMOTE CONTROL VALVE IN LARGE RECTANGULAR VALVE BOX.				
	RAINBIRD 1" 44DRC QUICK COUPLER W/ADJACENT 1" BALL VALVE IN SEPARATE BOX. PROVIDE QUICK-COUPLER SWING JOINT IN BETWEEN.				
✚	NIBCO 3" T-113 BRONZE GATE VALVE				
	ALL IRRIGATION LINES UNDER PAVING GREATER THAN 5' WIDE SHALL BE SLEEVED IN CLASS 315 PCV 2X SLEEVED PIPE. EXTEND SLEEVE 12" MINIMUM BEYOND EDGE OF PAVING-TYP.				
Ⓒ	TWO NEW REMOTE CONTROL VALVES TO BE CONNECTED TO EXISTING CONTROLLER.				

E1 EXISTING CONTROLLER STATION DESIGNATION - VERIFY AVAILABILITY
12 GALLONS PER MINUTE
1" VALVE SIZE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122306 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/27/2023

HMC Architects
3361004000
9546 CONCOURS STREET
ONTARIO, CA 91764
p09 989 9979 / www.hmcarchitects.com

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

LICENSED LANDSCAPE ARCHITECT
CHRISTOPHER THOMAS TAYLOR
2966
JULY 2024
STATE OF CALIFORNIA

silver bar studio
landscape architecture
environmental design
mariposa, ca.

FACILITY:
EL MONTE HIGH SCHOOL
3048 TYLER AVE
EL MONTE, CA 91731

PROJECT:
EL MONTE HIGH SCHOOL TRACK AND FIELD
EXISTING TRACK AND FIELD REPLACEMENT

SHEET NAME:
IRRIGATION PLAN

CONSTRUCTION DOCUMENTS

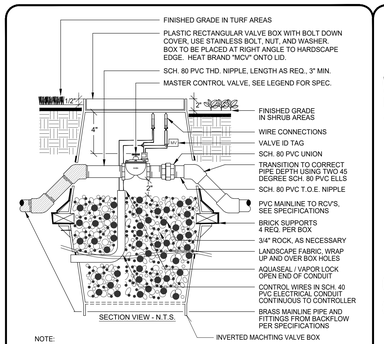
FAC NO.: XXXXX | BLDG NO.: BLD-XXXXX

DATE: **07.11.2023** | CLIENT PROJ NO:

SHEET:

L1.01

THIS LINE SHOWN ABOVE IS EXACTLY 1" WHEN PLOTTED ON ANSI D SHEETS ORIGINAL IMAGE SIZE

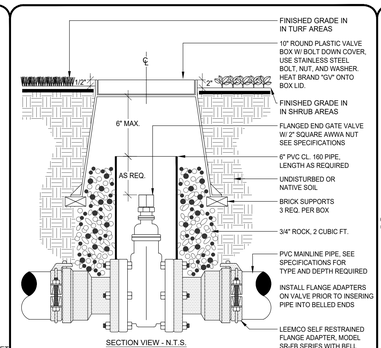


NOTE:
PVC ELLS AND ALL PRESSURE/NON-PRESSURE SIDE NIPPLES SHALL BE SIZED TO MATCH OUTLET LATERAL LINE SIZE INDICATED ON PLAN-EXCEPT AT RCV INLET. UNIONS SHALL BE SIZED TO MATCH RCV.

EQUIPMENT SHALL BE INSTALLED SUCH THAT THERE IS NO LEVERAGE OR STRESS ON THE VALVE ASSEMBLY. PIPE SHALL NOT COME INTO CONTACT WITH VALVE BOX.

USE A NON-HARDENING TEFLON PIPE SEALANT ON ALL THREADED CONNECTIONS.

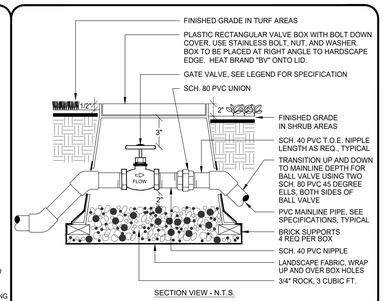
MASTER CONTROL VALVE



NOTE:
CONTRACTOR TO PROVIDE ONE 5 FOOT LONG TEE WRENCH WITH 2" AWWA SQUARE NUT ADAPTER FOR THE OPERATION OF GATE VALVES. SEE SPECIFICATIONS.

INSTALL VALVE BOX EXTENSIONS AS REQ. TO ACHIEVE PROPER VALVE AND PIPE DEPTH.

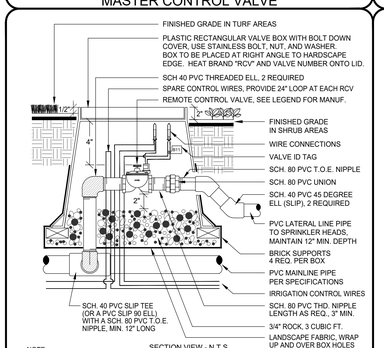
GATE VALVE - 4" AND LARGER



NOTE:
BOX TO BE INSTALLED AS TO ALLOW FOR PROPER OPERATION OF BALL VALVE. INSTALL VALVE AND BOX PARALLEL TO HARDSCAPE EDGE. INSTALL BOX OFF-CENTER OF VALVE.

INSTALL VALVE BOX EXTENSIONS AS REQ. TO ACHIEVE PROPER VALVE AND PIPE DEPTH

GATE VALVE 3" AND SMALLER

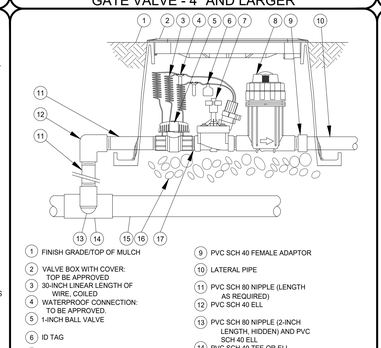


NOTE:
PVC ELLS AND ALL PRESSURE/NON-PRESSURE SIDE NIPPLES SHALL BE SIZED TO MATCH OUTLET LATERAL LINE SIZE INDICATED ON PLAN-EXCEPT AT RCV INLET. UNIONS SHALL BE SIZED TO MATCH RCV.

EQUIPMENT SHALL BE INSTALLED SUCH THAT THERE IS NO LEVERAGE OR STRESS ON THE VALVE ASSEMBLY. PIPE SHALL NOT COME INTO CONTACT WITH VALVE BOX.

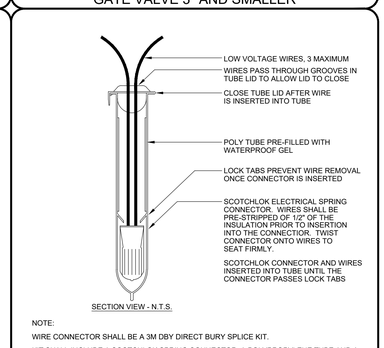
USE A NON-HARDENING TEFLON PIPE SEALANT ON ALL THREADED CONNECTIONS.

REMOTE CONTROL VALVE



1. FINISH GRADE/TOP OF MULCH
2. VALVE BOX WITH COVER: TOP BE APPROVED
3. 30-INCH LINEAR LENGTH OF WIRE, COILED
4. WATERPROOF CONNECTION: TO BE APPROVED.
5. 1-INCH BALL VALVE
6. ID TAG
7. REMOTE CONTROL VALVE: PER IRRIGATION LEGEND
8. QUICK CHECK BASKET FILTER: OR 1" AMIAD COMPACT
9. PVC SCH 40 FEMALE ADAPTOR
10. LATERAL PIPE
11. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
12. PVC SCH 40 ELL
13. PVC SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND PVC SCH 40 ELL
14. PVC SCH 40 TEE OR ELL
15. MAINLINE PIPE
16. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
17. PVC SCH 80 NIPPLE, CLOSE

PCT REMOTE CONTROL VALVE

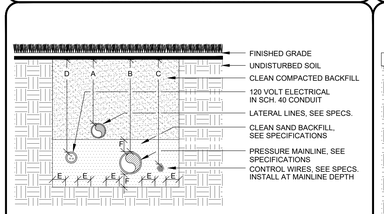


NOTE:
WIRE CONNECTOR SHALL BE A 3M DBY DIRECT BURY SPLICE KIT.

KIT SHALL INCLUDE A SCOTCHLOK SPRING CONNECTOR, A POLYPROPYLENE TUBE AND A WATERPROOF SEALING GEL. TUBE SHALL BE SUPPLIED PREFILLED WITH GEL.

DIRECT BURY SPLICE KIT SHALL BE USED TO ELECTRICALLY CONNECT 2 - 3 #14 OR 2 #12 PRE-STRIPPED COPPER WIRES. LARGER WIRES OR GREATER QUANTITIES OF WIRES SHALL REQUIRE A LARGER APPROVED WIRE CONNECTION.

WIRE CONNECTOR



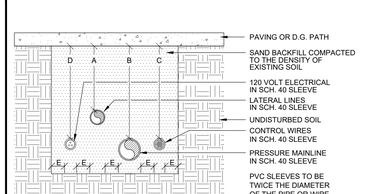
DIMENSION	A	B	C	D	E	F
1/2" TO 1 1/2" SIZE	12"	18"	18"	30"	6"	6"
2" TO 2 1/2" IN SIZE	12"	24"	24"	30"	6"	6"
3" AND LARGER	18"	24"	24"		6"	6"

NOTE:
ALL PLASTIC PIPING SHALL BE SNAKED WITHIN TRENCH.

BUNDLE WIRING AND WRAP WITH TAPE AT TEN FOOT INTERVALS.

ALL MAINLINE PIPING TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTALLATION SPECIFICATIONS.

PIPE AND WIRE TRENCHING



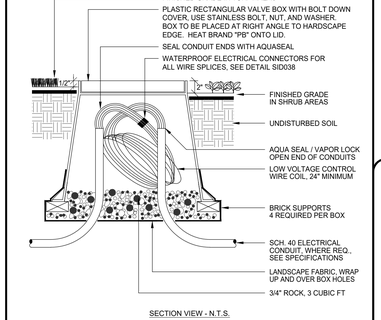
DIMENSION	A	B	C	D	E
DEPTH BELOW GRADE	24"	36"	36"	36"	6"

NOTE:
ALL PVC MAINLINE, PVC LATERAL LINES, AND CONTROL WIRES SHALL BE SLEEVED BELOW ALL HARDSCAPE ELEMENTS WITH SCH. 40 PVC, 2 TIMES THE DIAMETER OF THE PIPE OR WIRE BUNDLE WITHIN.

ALL CURBS SHALL BE MARKED WITH A "SCORE" MARK TO DESIGNATE SLEEVE LOCATION.

SLEEVE DETAIL SHALL ALSO BE USED FOR INSTALLATION OF PIPE IN ROCK SOIL.

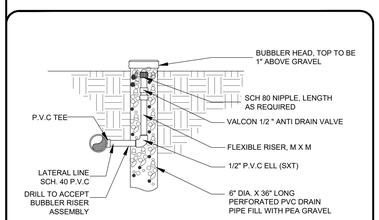
SLEEVE TRENCHING



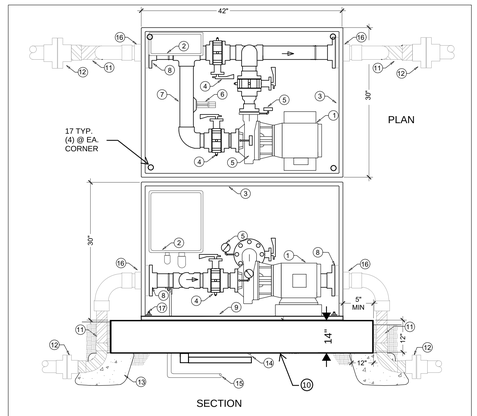
NOTE:
ALL CONTROL WIRE SPLICES SHALL BE INSTALLED INSIDE PULL BOXES.

ALL SPLICES SHALL BE MADE USING WATERPROOF ELECTRICAL CONNECTORS.

CONTROL WIRE PULL BOX



TREE BUBBLER WITH GRATE



KEYNOTE LEGEND

1. CLOSE-COUPLED END SUCTION CENTRIFUGAL PUMP, CAST IRON BRONZE FITTED, BACK PULLOUT DESIGN, MECHANICAL SEAL, ODP MOTOR.
2. NEMA 4 ENCLOSED CONTROL PANEL, WITH CIRCUIT BREAKER, MAGNETIC STARTER, HOA SWITCH, AND COMPONENTS FOR AUTOMATIC BOOSTER PUMP CONTROL.
3. MARINE GRADE ALUMINUM ENCLOSURE, TOP HINGED DESIGN WITH VENTING.
4. CAST IRON ELASTOMER LINED FULL LUG WAFER STYLE BUTTERFLY VALVE.
5. PRESSURE GAUGE, 2 1/2" DIAL, LIQUID FILLED, STAINLESS CASE, 0 - 200 PSI.
6. FLOW SWITCH, THERMAL DISPERSION, 150 PSI RATED.
7. 3 INCH TYPE 304 STAINLESS STEEL.
8. 150# ANSI RATED STAINLESS OUTPUT FLANGE.
9. FABRICATED STRUCTURAL ALUMINUM BASEPLATE.
10. CONCRETE PAD SET 2" ABOVE FINISH GRADE PER DETAIL 8/ A10.10
11. DOUBLE WRAP WITH 20 MIL PIPE WRAP TAPE.
12. COMPANION FLANGE CONNECTION.
13. THRUST BLOCK OR JOINT RESTRAINT (BY OTHERS)
14. MAIN POWER CONDUIT.
15. IRRIGATION CONTROLLER SIGNAL CONDUIT.
16. CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL INLET AND OUTLET PIPING; BRASS OR CAST IRON
17. (4) 1/2" DIA KB-TZ2 SS 304, 2" MIN EMBEDMENT. INSTALL PER ICC-ESR 4266 TYP. EACH CORNER.

ESTIMATED WEIGHT - 500 LBS.

BARRETT ENGINEERED PUMPS	SIZE	DWG NO. EL MONTE H.S.	REV
	SCALE		SHEET IBH-LF-2.dwg

PROJECT: EL MONTE U.H.S.D. – EL MONTE H.S. **September 28, 2021**

SYSTEM DESIGN PARAMETERS

IBCR32-15-2-3/PACT System Model Number		151 GPM System Design Flow Rate	138 PSI System Design Pressure	3 INCH System Piping Size
65 PSI Minimum Suction Pressure		208/230 or 460 VAC System Electrical Voltage	3 PHASE 60 Hz System Electrical Phase and Frequency	
CR32-3 Pump Model Number		151 GPM Pump Capacity (GPM)	195 FEET Pump Total Head (Feet)	
15 HP Pump Horsepower	3500 RPM Pump RPM	Undetermined Voltage/Phase System Full Load Amperage		

BOOSTER PUMP ASSEMBLY

1.1 A simplex water pressure booster system as designed and fabricated by Barrett Engineered Pumps (619) 232-7867. The system shall be a completely prefabricated system with pump, piping, electrical and structural elements. The entire booster pump assembly shall be UL Listed and Approved.

1.2 Pump shall be:

1.2.1 (CR Series) Vertical Multi-Stage Centrifugal. Pump construction shall be cast iron stainless fitted with cast iron casing, stainless steel impellers and bowls. Pump shall be equipped with tungsten carbide mechanical seal. Pump shall be directly coupled to a C-face electric motor.

1.3 Electric motor shall be of the squirrel cage induction type suitable for full voltage starting. Motor shall be ODP to aid in cooling. Electric motor shall be rated for continuous service. The motor shall have horsepower ratings such that the motor will carry the maximum possible load to be developed under the designed pumping conditions and not overload the motor beyond the nameplate rating of the motor. Motor shall have a 1.15 service factor. The motor shall conform to the latest NEMA Standards for motor design and construction.

1.4 Pump Control Panel shall have a UL Listed Modular NEMA4X plain front non-metallic enclosure with stainless steel lockable latches. This Includes power and control re-settable thermal circuit breakers or Time Delay Fuses, heavy duty magnetic starter with adjustable overload protection, Controls Relays, Control on/off Switch, Hand-Off-Auto switch to select mode of operation, heavy duty numbered terminal strips for power and control wiring lead terminations to land all field wiring, Ground Lugs, Motor wiring whip, VFD to remote panel wiring whip, and wiring schematic.

1.5 If 24V control started, a Metal oxide varistor protected pump start relay shall be incorporated in panel to start pump with signal from an irrigation controller.

1.6 All system piping shall be Schedule 10S 304 stainless steel. All major fittings shall be 304 stainless steel with flanges to allow for system disassembly or major component removal. All instrumentation fittings shall be 304SS. System shall incorporate an integral full pipe size bypass line with isolation valve to allow for pump removal and repair without disrupting water supply to system.

1.7 Isolation valves shall be all stainless quarter turn ball valves with hard chrome ball on lines 2" and less. Isolation valves shall be lug style butterfly valves with Buna-N elastomeric seats, ductile iron nickel coated disc, and stainless steel stem with handle and 10 position galvanized memory plate on lines 2½" and greater.

1.8 Gauges shall be 2½" diameter face, glycerin filled with stainless casing and brass internals.

1.9 Flow switch shall be a 316 stainless steel and solid-state thermal sensor designed to measure change in flow velocity and in temperature. The flow switch shall include an integrated bar graph with 10 LED lights and shall be capable of providing indication of flow (green), closed (orange), and open (red) conditions.

1.10 Pump system shall be mounted on a structural aluminum skid with mounting flanges on front and back to allow for mounting of skid to concrete pad. Skid equipped with pipe support on suction and discharge piping. All nuts and bolts and washers shall be stainless steel on skid and piping. Skid shall include mounting hardware for integral aluminum enclosure.

1.11 The system enclosure shall be vandal and weather resistant, marine grade aluminum alloy 5052-H32 construction with rectangular punch-outs for viewing and heat dissipation. The enclosure shall be low profile hinged top design with padlock provision. The cover shall be secured to the concrete pad with stainless steel hardware. The enclosure shall measure 30D" x 42W" x 40H" and concrete pad dimensions shall be 42" x 54". The enclosure shall be as manufactured by V.I.T. Products, Inc.

1.12 Pump Assembly shall include the following option(s):

- ❑ **(PACT)** Where specified by the System Design Parameters, the following items shall be provided to allow for stand-alone system pressure activation of pumping unit:
  - ❑ Variable Frequency Drive system to receive feedback signal from system mounted stainless steel pressure transducer, and in conjunction with internal software driven PID control loop to maintain customer adjustable constant system discharge pressure by varying the speed of the pump in response to varying system load. Variable Frequency Drive shall provide for on/off control of pumping unit via system pressure monitoring
  - ❑ Bladder Style Pressure Storage Tank, piped to pump discharge, designed to maintain system pressure when pump is off and properly sized by the manufacturer to prevent short cycling of pumping system.
  - ❑ Spring loaded wafer style disc check valve with cast iron body, bronze disc, and stainless steel spring to maintain system pressure when pump is off.

1.13 The services of a factory representative or trained service professional shall be made available on the job site to check installation and perform the startup and instruct the operating personnel. A startup report containing voltage and amperage readings, suction and discharge pressure readings, estimated flow conditions, and general operating characteristics shall be submitted to the Owner.

1.14 One electronic set of operating and maintenance manual shall be provided to the owner after startup and shall include parts manuals for major components, performance curve for pump, general sequence of operation, and electrical schematic for control panel.

1.15 The warranty period shall be a non-prorated period of 36 months from date of purchase.

1695 National Ave. San Diego CA 92113
Phone (619) 232-7867 • FAX (619) 232-3029
Represented by: Green Product Sales • (949) 584-7311 • gps10@earthlink.net

DISTANCE CHART

REFER TO THE FOLLOWING TABLE THAT LISTS THE LENGTH (IN FEET) FOR EACH SIZE/TYPE FITTING WITHIN WHICH ALL JOINTS JUST BE RESTRAINED. ALL FITTINGS AND JOINT RESTRAINTS SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS & SPECIFICATIONS.

AS AN EXAMPLE, IF YOU ARE INSTALLING A 3" MAINLINE WITH A DIRECTIONAL CHANGE OF 90°, REFER TO CHART UNDER PIPE SIZE TO 3" AND UNDER BENDS 90 YOU WILL SEE THE DISTANCE OF 11'. IF THERE IS ANY JOINT (VALVE, BELL, ETC.) YOU MUST INSTALL A JOINT RESTRAINT WITHIN 11' OF THE 90° MAINLINE DIRECTIONAL CHANGE.

PIPE SIZE	BENDS				REDUCERS			DEAD END	
	11°	22°	45°	90°	1 STEP	2 STEP	3 STEP	BLIND	SERV. B.
2"	1'	1'	2'	6'	-	-	-	19'	6'
2.5"	1'	2'	4'	9'	4'	-	-	23'	10'
3"	2'	3'	6'	11'	8"	10'	-	30'	15'
4"	2'	4'	9'	20'	14'	20'	31'	45'	25'
6"	3'	6'	13'	29'	30'	40'	53'	63'	40'
8"	4'	8'	15	38'	33'	55'	63'	75'	70'
10"	5'	9'	19'	45'	36'	56'	75'	96'	90'
12"	5'	10'	21'	53'	38'	60'	83'	112'	110'

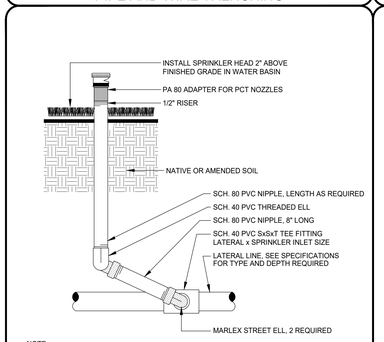
INSTALLATION CHART

REFER TO THE FOLLOWING TABLE WHICH LISTS THE NUMBER OF BOLTS, SIZE, AND TORQUE FOR EACH BOLT IN REFERENCE TO THE SIZE OF PIPE WHICH IS BEING RESTRAINED.

AS AN EXAMPLE, IF YOU HAVE A 3" PIPE, YOU WILL NEED 2 BOLTS THAT ARE 3/8 X 2.5" AND TIGHTEN THEM WITH A TORQUE WRENCH TO 20 FT-LBS.

PIPE SIZE	NO. BOLTS	BOLT SIZE	TORQUE FT-LBS.
2"	2	3/8" x 2.5"	20
2.5"	2	3/8" x 2.5"	20
3"	2	3/8" x 2.5"	20
4"	2	1/2" x 3"	50
6"	2	1/2" x 3.5"	50
8"	4	1/2" x 4"	50
10"	4	5/8" X 5.5"	100
12"	4	5/8" x 5.5"	100

LEEMCO JOINT RESTRAINT CHART

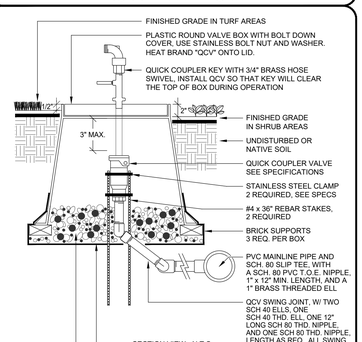


NOTE:
CONTRACTOR ASSEMBLED SWING JOINT SHALL BE SIZED TO MATCH THE SPRINKLER INLET.

INSTALL SPRINKLER HEADS PLUMB. ADJUST NOZZLE STREAM TO COVER LANDSCAPE AREA WITHOUT OVERSPRAY ONTO PAVING, FENCES, WALLS OR BUILDINGS.

USE A NON-HARDENING TEFLON PIPE SEALANT ON ALL THREADED CONNECTIONS.

PCT-BUBBLER ON FIXED RISER



NOTE:
USE A NON-HARDENING TEFLON PIPE SEALANT ON ALL THREADED CONNECTIONS.

QUICK COUPLER VALVE

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Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

DAVID THOMAS DERHAM — LICENSED LANDSCAPE ARCHITECT — 2981 — REN 31 AUG 2024 — STATE OF CALIFORNIA

silver bar studio
landscape architecture
environmental design
mariposa, ca.

FACILITY:
EL MONTE HIGH SCHOOL
3048 TYLER AVE
EL MONTE, CA 91731

PROJECT:
EL MONTE HIGH SCHOOL TRACK AND FIELD
EXISTING TRACK AND FIELD REPLACEMENT

SHEET NAME:
IRRIGATION DETAILS

CONSTRUCTION DOCUMENTS

FAC NO.: XXXXX | BLDG NO.: BLD-XXXXX

DATE: **07.11.2023** | CLIENT PROJ NO:

SHEET:

L1.02

PLEASE RECYCLE

THE LINE SHOWN ABOVE IS EXACTLY 1" WHEN PRINTED ON 22"x34" SHEETS. IF NOT, ADJUST SCALE ACCORDINGLY.

MILDRED STREET

LIMIT OF TURF

POLE VAULT

NORTH RADIUS POINT

CENTER LINE OF TRACK AND FIELD

SOUTH RADIUS POINT

DISCUS

SHOT PUT

LONG JUMP/ TRIPLE JUMP

HIGH JUMP

STABILIZED DECOMPOSED GRANITE W/NON-STABILIZED DECOMPOSED GRANITE TREE WELLS. TREE WELLS TO INCLUDE 4" WIDE CONCRETE BORDER.

(E) MODULAR TOILET AND CONCESSIONS BUILDING A# 03-117117

VISITOR BLEACHERS A# 03-117117

HOME BLEACHERS A# 03-117117

BLEACHERS

EXISTING TURF

(E) MODULAR TOILET AND CONCESSIONS BUILDING A# 03-117117

(E) ELECTRICAL

(E) MENS VISITOR TOILETS A# 03-117117

(E) WOMENS VISITOR TOILETS A# 03-117117

(E) TICKET BOOTH A# 03-117117

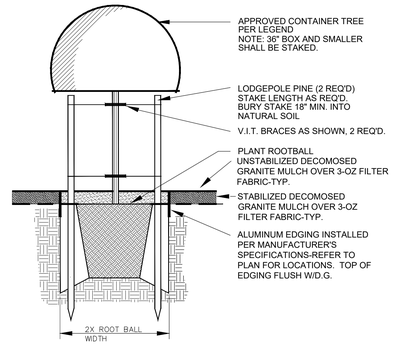
(E) MENS HOME TOILETS A# 03-117117

(E)WOMENS HOME TOILETS A# 03-117117

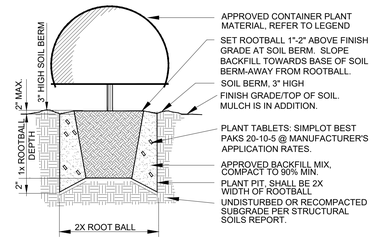
(E) LIGHT POLES, TYP.

PINUS CANARIENSIS	WUCOLS 3: LOW	
CANARY ISLAND PINE	45' TALL/16' WIDE	
36" BOX	SUN	
COTONEASTER DAMMERI	WUCOLS 3: LOW	
CORAL BEAUTY	16" TALL/60" WIDE	
5-GAL.	SUN	

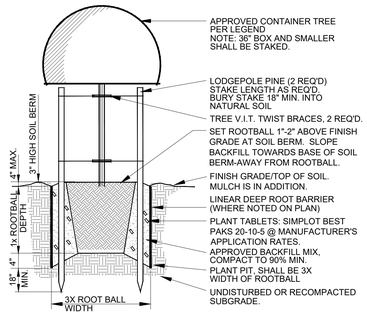
0 8 16 32



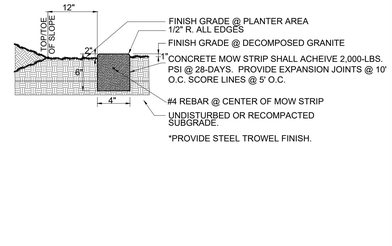
TREE PLANTING IN DECOMPOSED GRANITE



SHRUB PLANTING



TREE PLANTING



CONCRETE BORDER @ TREE WELLS

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KEYNOTES

NOTES

LICENSED LANDSCAPE ARCHITECT DEREK THOMAS JEPSEN 2903 RENEWAL JULY 2024 STATE OF CALIFORNIA

silver bar studio
landscape architecture
environmental design
mariposa, ca.

FACILITY:
EL MONTE HIGH SCHOOL
3048 TYLER AVE
EL MONTE, CA 91731

PROJECT:
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PLANTING PLAN

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FAC NO.: XXXXX | BLDG NO.: BLD-XXXXX
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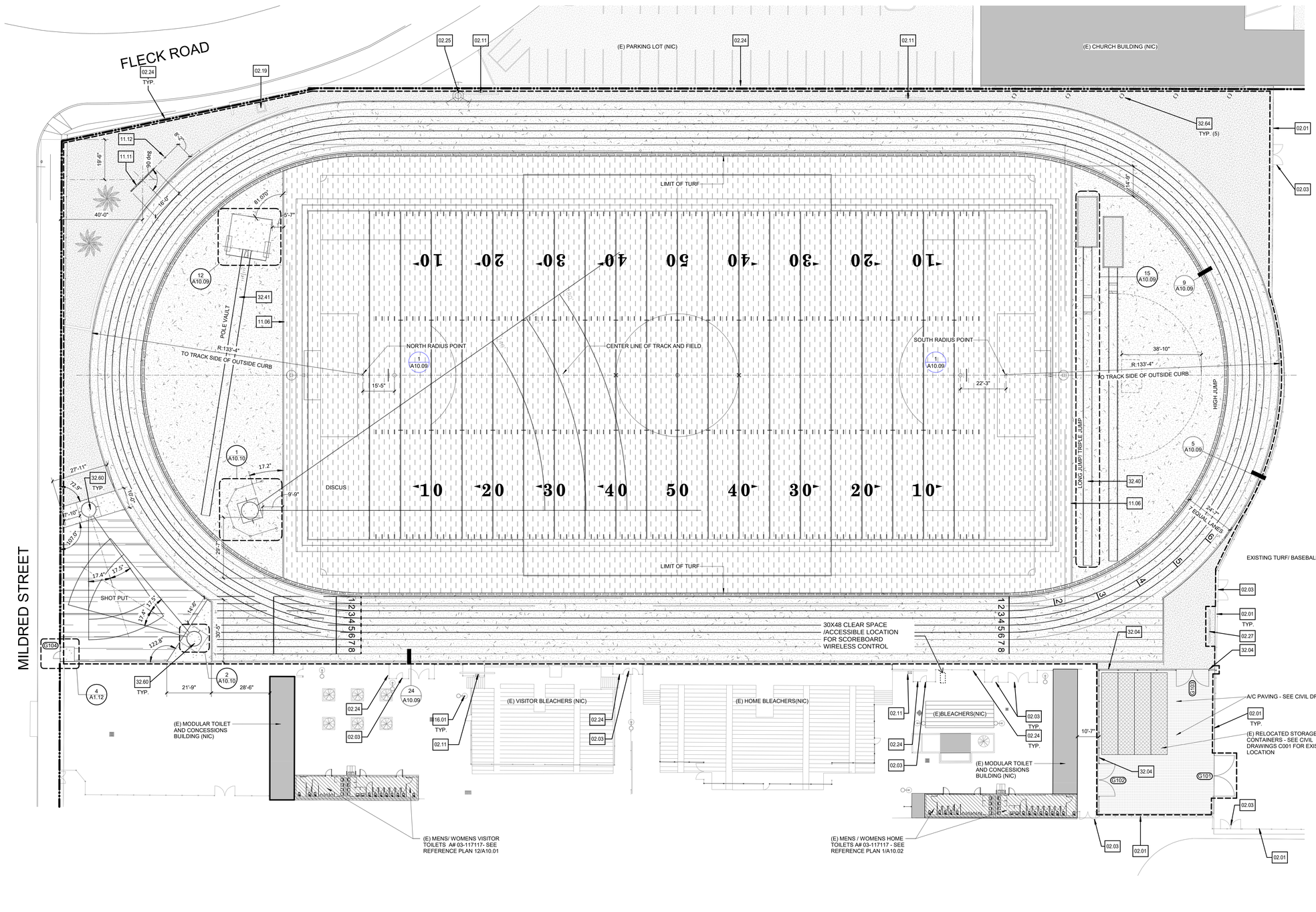
SHEET:

L2.01

THE LINE SHOWN ABOVE IS EXACTLY 1" LONG ON THIS SHEET'S ORIGINAL SIZE

SITE PLAN LEGEND

- A.C. PAVING OR SLURRY COAT, REFER TO CIVIL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION
- CONCRETE - REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION
- SYNTHETIC TURF - REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION
- GRASS - REFER TO LANDSCAPE DRAWINGS SPECIFICATIONS FOR ADDITIONAL INFORMATION
- PLANTER. SEE LANDSCAPE DRAWINGS FOR ADDITIONAL INFORMATION
- TRACK SURFACE - REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION
- SHOT-PUT MIX - REFER TO LANDSCAPE DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION
- AREA NOT IN SCOPE (N.I.S.)
- SAND - REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION
- EXPANSION OR CONTROL JOINT - REFER TO SPECIFICATIONS AND GEOTECHNICAL REPORT FOR ADDITIONAL INFORMATION
- (E) CHAIN LINK FENCE
- (E) ANTI-CLIMB METAL FENCING AND OR GATE(S)
- LIMITS OF WORK
- (E) MENS AND WOMENS TOILETS - NIC



ENLARGED SITE PLAN

1" = 20'-0"

PLEASE RECYCLE

7/10/2023 8:54:09 PM

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No. C-33423
06/30/2025

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KEYNOTES

02.01	(E) CHAIN LINK FENCE TO REMAIN; PROTECT IN PLACE
02.03	(E) GATE TO REMAIN PROTECT IN PLACE
02.11	(E) MUSCO LIGHT AND POLE TO REMAIN; PROTECT IN PLACE
02.19	(E) UTILITIES TO REMAIN, REFER TO CIVIL FOR ADDITIONAL INFORMATION
02.24	(E) ORNAMENTAL FENCE TO REMAIN; PROTECT IN PLACE
02.25	(E) CELL TOWER TO REMAIN; PROTECT IN PLACE
02.27	(E) BASEBALL FIELD SCOREBOARD NIC. TO REMAIN; PROTECT IN PLACE
11.06	INSIDE STRAIGHT "D" ZONE CURB, SEE DETAIL 21/A10.09
11.11	ELECTRONIC SCOREBOARD. SEE DETAIL 16/A10.10 AND SPECS. WIRELESS CONTROL IS PROVIDED. SEE SHEET # A1.10 ENLARGED SITE PLAN FOR ACCESSIBLE LOCATION ADJACENT TO (E) HOME BLEACHERS
11.12	FLAG POLE, REFER TO DETAIL 6/A10.10
16.01	EXTERIOR LIGHT FIXTURE WITH CONCRETE BASE - REFER TO ELECTRICAL DWGS. FOR ADDITIONAL INFORMATION
32.04	CHAIN LINK FENCE, REFER TO FENCING PLAN. SEE SHEET A1.12
32.40	LONG/TRIPLE JUMP, SEE DETAIL 15/A10.09. REFER TO SPEC
32.41	POLE VAULT REFER TO SPEC 11 66 00 AND DETAIL 12/A10.09
32.60	SHOT PUT THROWING CIRCLE, SEE DETAIL 2/A10.10
32.64	GROUND MOUNTED LIGHTS FOR MURAL, REFER TO ELECT.

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SHEET NAME:
ENLARGED SITE PLAN

CONSTRUCTION DOCUMENTS

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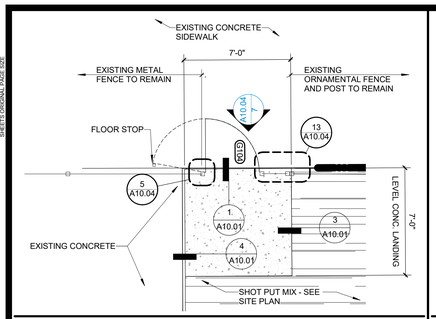
DATE **07.11.2023** | CLIENT PROJ NO:

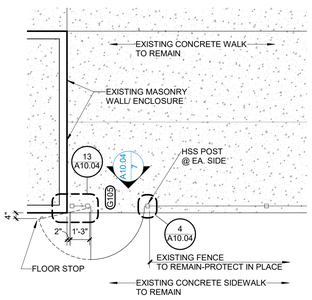
SHEET:

A1.10



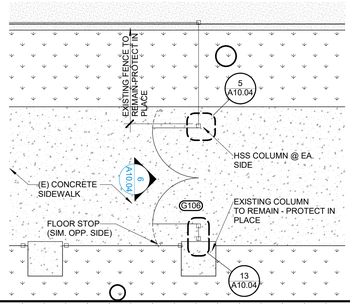
ENLARGED PLAN - G104 | 4

1/4" = 1'-0"



ENLARGED PLAN - GATE G105 | 3

1/4" = 1'-0"



ENLARGED PLAN - GATE G106 | 2

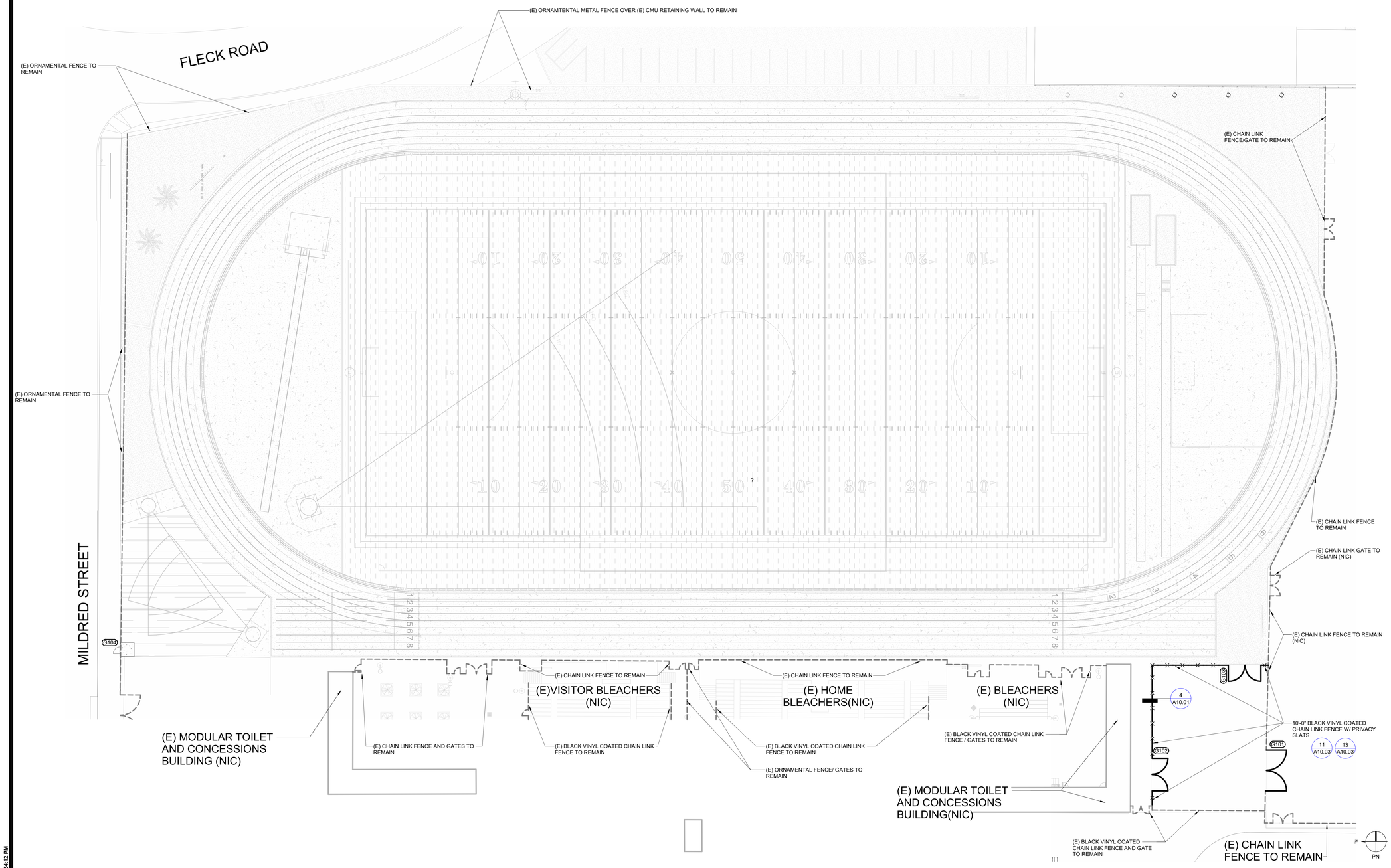
1/4" = 1'-0"

GATE SCHEDULE

NUMBER	NUMBER OF PANELS	Width	Height	MATERIAL	HARDWARE GROUP	PANIC HARDWARE	GATE ELEVATION	COMMENTS
G101	2	20'-0"	10'-0"	GALV. CHAINLINK	G101	No	18/A10.03	SERVICE GATE WITH FORK LATCH AND CANE BOLT/ CHAIN LINK GATE TO MATCH (E) FENCE MATERIAL AND FINISH
G102	2	16'-0"	10'-0"	BLACK VINYL COATED CHAINLINK	G101	No	18/A10.03	SERVICE GATE WITH FORK LATCH AND CANE BOLT
G103	2	16'-0"	10'-0"	BLACK VINYL COATED CHAINLINK	G101	No	18/A10.03	SERVICE GATE WITH FORK LATCH AND CANE BOLT
G104	1	3'-0"	8'-0"	ORNAMENTAL METAL	G102	Yes	7/A10.04	ACCESSIBLE GATE AND HARDWARE WITH HYDRAULIC CLOSER AND KICK PLATE
G106	2	3'-0"	8'-0"	ORNAMENTAL METAL	G103	Yes	6/A10.04	ACCESSIBLE GATE AND HARDWARE WITH HYDRAULIC CLOSER AND KICK PLATE
G105	1	4'-0"	8'-0"	ORNAMENTAL METAL	G102	Yes	7/A10.04	ACCESSIBLE GATE AND HARDWARE WITH HYDRAULIC CLOSER AND KICK PLATE

LEGEND

- X — CHAINLINK FENCING
- (E) CHAINLINK FENCING
- LIMIT OF WORK



FENCING SITE PLAN | 1

1" = 20'-0"

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VIRGINIA ELAINE MARQUARDT
No. C-33423
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FACILITY:
EL MONTE HIGH SCHOOL
3048 TYLER AVE
EL MONTE, CA 91731

PROJECT:
EL MONTE HIGH SCHOOL TRACK AND FIELD
EXISTING TRACK AND FIELD REPLACEMENT

SHEET NAME:
FENCING PLAN

CONSTRUCTION DOCUMENTS

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SHEET:

A1.12

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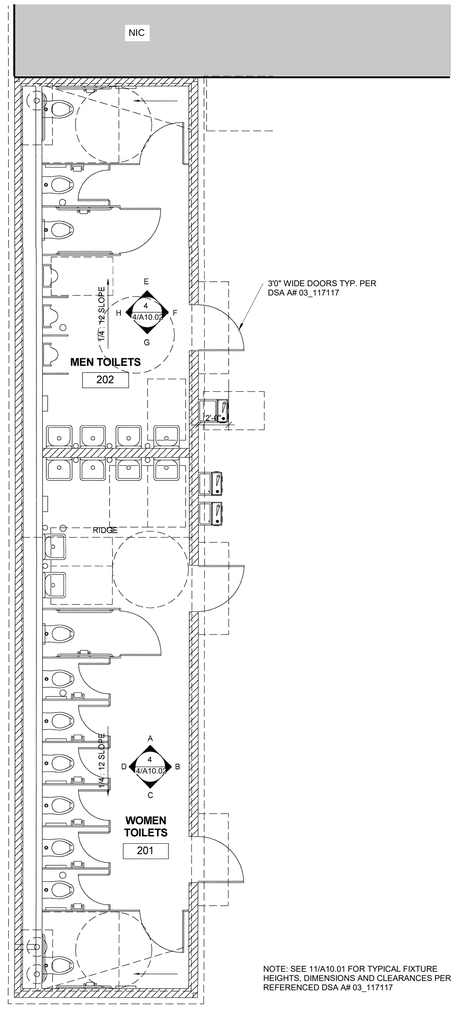
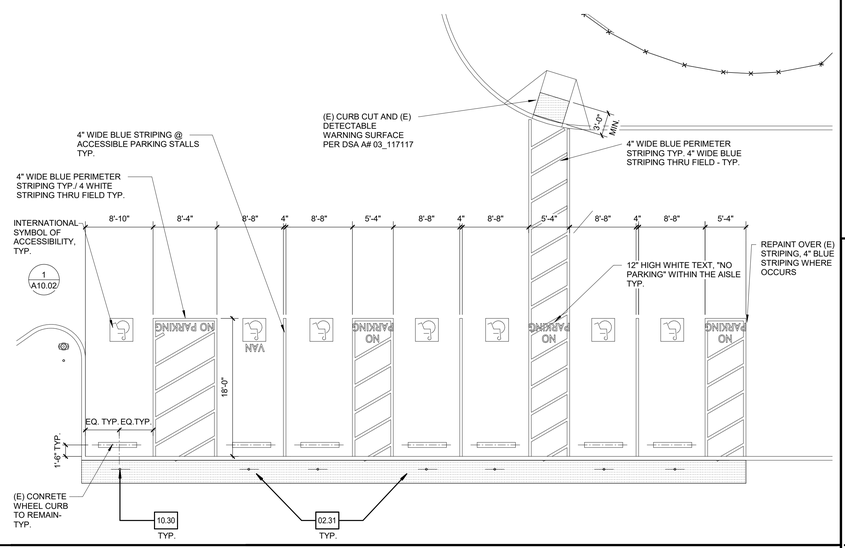
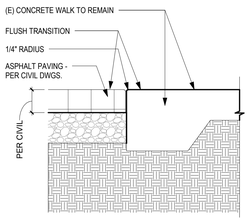


NOTE: SEE 11/A10.01 FOR TYPICAL FIXTURE HEIGHTS, DIMENSIONS AND CLEARANCES PER REFERENCED DSA A# 03_117117

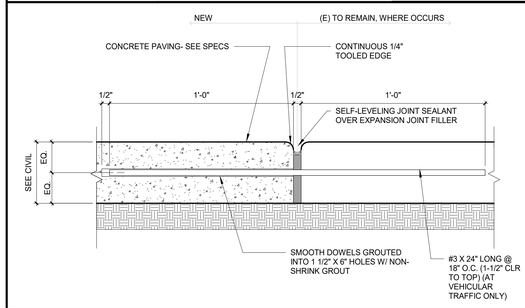
EXISTING TOILET PLAN @ VISITOR SIDE(REFERENCE A# 03_117117) 12
1/4" = 1'-0"



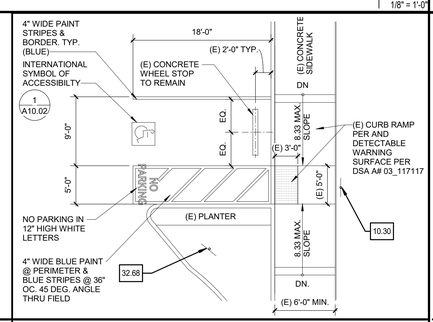
ENLARGED ACCESSIBLE PARKING 10
1/8" = 1'-0"



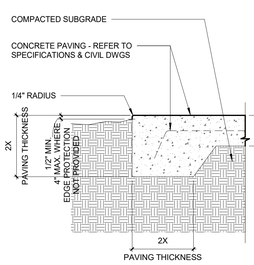
ASPHALT AT CONCRETE PAVING 4
1 1/2" = 1'-0"



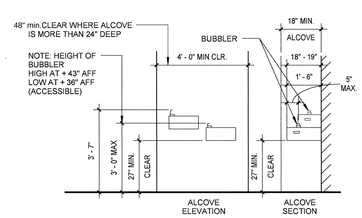
EXPANSION JOINT 1
3" = 1'-0"



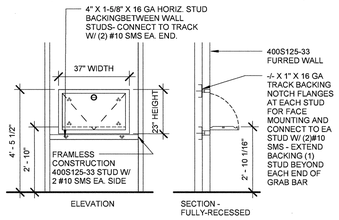
ENLARGED VAN ACCESSIBLE PARKING 9
1/8" = 1'-0"



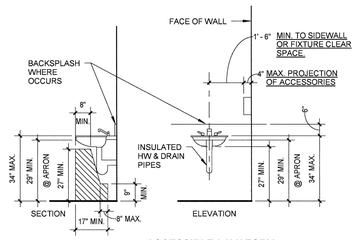
CONCRETE PAVING EDGE 3
1 1/2" = 1'-0"



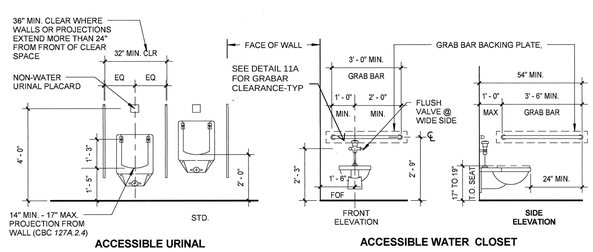
DRINKING FOUNTAIN



BABY CHANGING TABLE

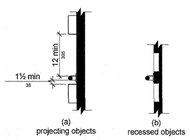


ACCESSIBLE LAVATORY

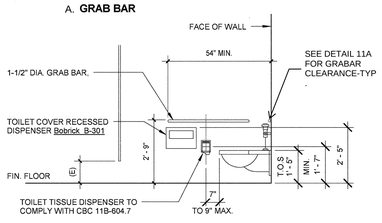


ACCESSIBLE URINAL

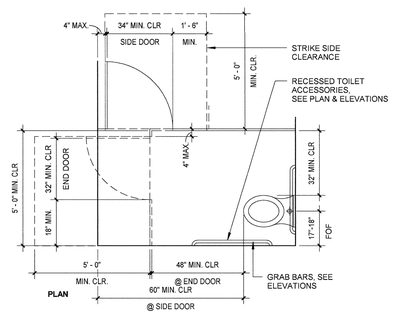
ACCESSIBLE WATER CLOSET



A. GRAB BAR

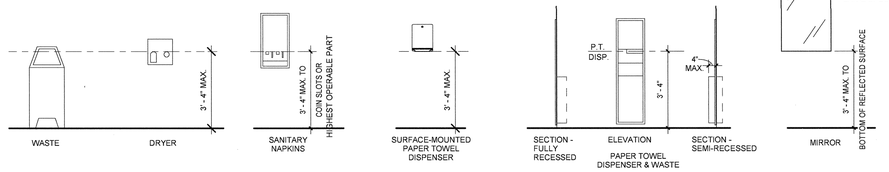


TOILET COMPARTMENT ACCESSORIES INDIVIDUAL ITEMS



ACCESSIBLE TOILET COMPARTMENTS

TOILET ROOM PLUMBING FIXTURE HEIGHTS/DIMENSIONS



NOTES:

1. MINIMUM 30" x 48" CLEAR FLOOR OR GROUND SPACE IS PROVIDED TO ALLOW FORWARD OR PARALLEL APPROACH TO ACCESSORIES.
2. CONTROLS AND OPARATING MECHANISMS ARE OPERATE THE ONE HAND AND DO NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WIST.
3. THE FORCE REQUIRED TO ACTIVATE CONTROLS IS 5 LBS. MAXIMUM.
4. COAT HOOKS AND SHELVING ARE LOCATED WITHIN APPROPRIATE REACH RANGES (48" MAX. ABOVE FLOOR RECOMMENDED).
5. IF MEDICINE CABINETS ARE PROVIDED, AT LEAST ONE HAS A USABLE SHELF NO HIGHER THAN 44" ABOVE FLOOR.
6. THE SPACE BETWEEN THE WALL AND THE GRAB BAR SHALL BE 1½2 INCHES. THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS ABOVE SHALL BE 12 INCHES MINIMUM (11B-609.3)
7. *TOILET TISSUE DISPENSERS SHALL BE LOCATED ON THE WALL OR PARTITION CLOSEST TO THE WATER CLOSET, 7 INCHES MINIMUM AND 9 INCHES MAXIMUM IN FRONT OF THE WATER CLOSET MEASURED TO THE CENTERLINE OF THE DISPENSER. THE OUTLET OF THE DISPENSER SHALL BE BELOW THE GRAB BAR, 19 INCHES MINIMUM ABOVE THE FINISH FLOOR. THE OUTLET OF THE DISPENSER SHALL NOT BE LOCATED BEHIND GRAB BARS. DISPENSERS SHALL NOT BE OF A TYPE THAT CONTROLS DELIVERY OR THAT DOES NOT ALLOW CONTINUOUS PAPER FLOW.*
   CBC 11B-603.5 & 11B-604.7

TOILET ROOM ACCESSORY MOUNTING HEIGHTS

EXISTING TOILET ACCESSORIES (REFERENCE A# 03_117117 SHEET GEN-4) 11
3/8" = 1'-0"

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DIV. OF THE STATE ARCHITECT
APP: 03-122306 INC:
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SS ☑ FLS ☑ ACS ☑
DATE: 10/27/2023

HMC Architects
3361004000
3546 CONCOURS STREET
ONTARIO, CA 91764
909 989 9979 / www.hmcarchitects.com

LICENSED ARCHITECT
VIRGINIA ELAINE MARQUARDT
No. C-33423
06/30/2025
STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

02.31	(E) DETECTABLE WARNING SURFACE TO REMAIN OVER (E) ZERO CURB
10.30	ACCESSIBLE PARKING SIGN, REFER TO DETAIL 5/A10.02 - EXISTING POSTS TO REMAIN
32.68	NO PARKING/ TOW AWAY SIGN - SEE DETAIL 4/A10.02

NOTES

FACILITY:
EL MONTE HIGH SCHOOL
3048 TYLER AVE
EL MONTE, CA 91731

PROJECT:
EL MONTE HIGH SCHOOL TRACK AND FIELD
EXISTING TRACK AND FIELD REPLACEMENT

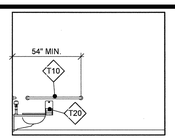
SHEET NAME:
SITE DETAILS

CONSTRUCTION DOCUMENTS

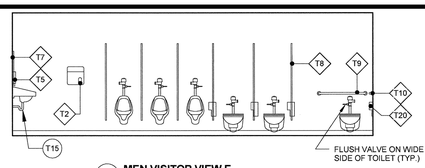
FAC NO.: XXXXX | BLDG NO.: BLD-XXXXX
DATE 07.11.2023 | CLIENT PROJ NO:
SHEET:

A10.01

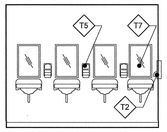
THE LINE SHOWN ABOVE IS 1" WHEN PLOTTED ON EXACTLY ORIGINAL SHEET SIZE



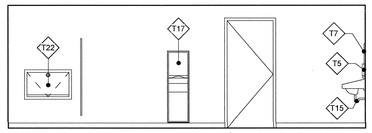
4E **MEN VISITOR VIEW F**
1/4" = 1'-0"



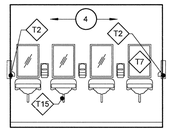
4H **MEN VISITOR VIEW E**
1/4" = 1'-0"



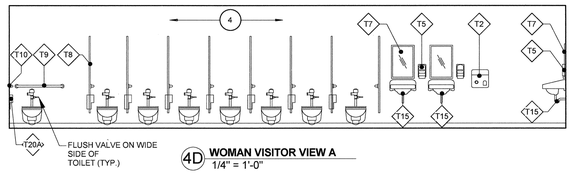
4G **MEN VISITOR VIEW H**
1/4" = 1'-0"



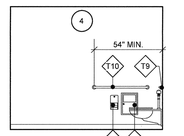
4F **MEN VISITOR VIEW G**
1/4" = 1'-0"



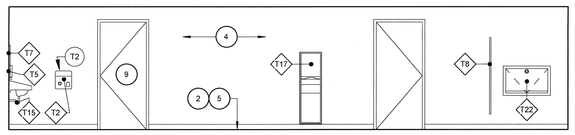
4A **WOMAN VISITOR VIEW B**
1/4" = 1'-0"



4D **WOMAN VISITOR VIEW A**
1/4" = 1'-0"



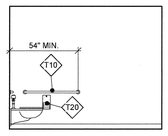
4C **WOMAN VISITOR VIEW D**
1/4" = 1'-0"



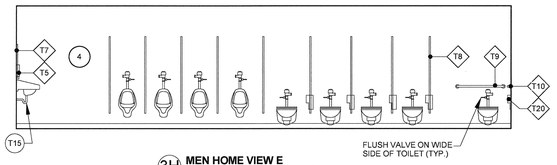
4B **WOMAN VISITOR VIEW C**
1/4" = 1'-0"

NOTE: SEE 11/A10.01 FOR TYPICAL FIXTURE HEIGHTS, DIMENSIONS AND CLEARANCES PER REFERENCED DSA A# 03_117117

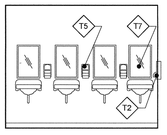
ELEVATIONS AT VISITOR MODULAR TOILET | 1/4" = 1'-0" | 4



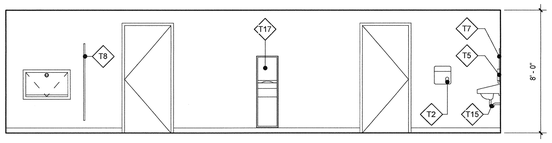
3E **MEN HOME VIEW F**
1/4" = 1'-0"



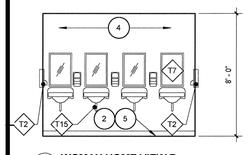
3H **MEN HOME VIEW E**
1/4" = 1'-0"



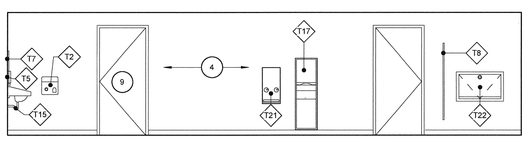
3G **MEN HOME VIEW H**
1/4" = 1'-0"



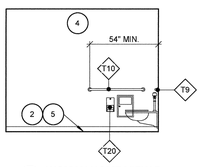
3F **MEN HOME VIEW G**
1/4" = 1'-0"



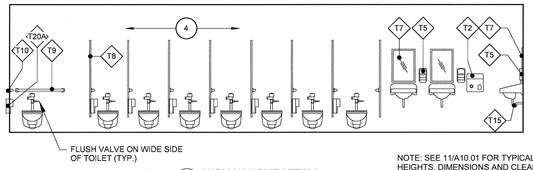
3A **WOMAN HOME VIEW B**
1/4" = 1'-0"



3B **WOMAN HOME VIEW C**
1/4" = 1'-0"



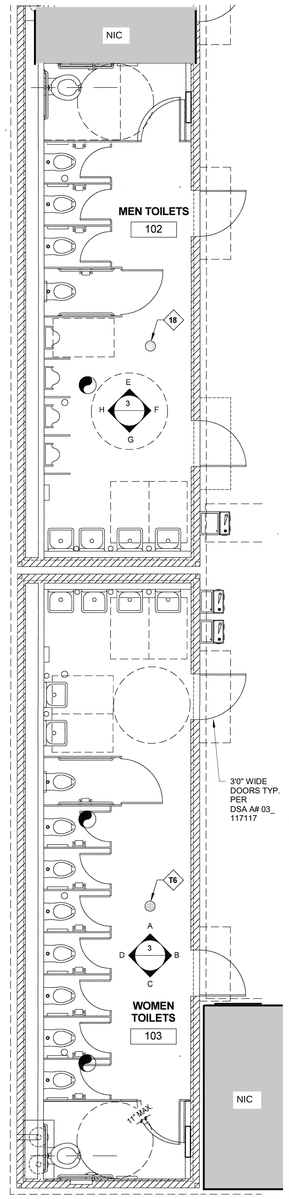
3C **WOMAN HOME VIEW D**
1/4" = 1'-0"



3D **WOMAN HOME VIEW A**
1/4" = 1'-0"

NOTE: SEE 11/A10.01 FOR TYPICAL FIXTURE HEIGHTS, DIMENSIONS AND CLEARANCES PER REFERENCED DSA A# 03_117117

ELEVATIONS AT HOME MODULAR TOILET | 1/4" = 1'-0" | 3



NOTE: SEE 11/A10.01 FOR TYPICAL FIXTURE HEIGHTS, DIMENSIONS AND CLEARANCES PER REFERENCED DSA A# 03_117117

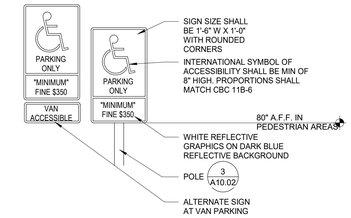
ENLARGED RESTROOM PLAN (HOME) | 1/4" = 1'-0" | 1

- **T1** PAPER TOWEL DISPENSER WITH 4" MAXIMUM PROJECTION
- **T2** HAND DRYER, BRADLEY AERIX 2902-287400
- **T3** SANITARY NAPKIN DISPENSER - 3" MAX. PROJECTION
- **T4** SEMI-RECESSED WASTE RECEPTACLE WITH 4" MAXIMUM PROJECTION
- **T5** SOAP DISPENSER - 4" MAXIMUM PROJECTION
- **T6** FLOOR DRAIN SHALL HAVE MAXIMUM 1/2" OPENINGS (TYP.)
- **T7** 24" X 36" FRAMED MIRROR, BOBRICK B-290 2436
- **T8** OVERHEAD BRACED PARTITION, SEE SPECS,
- **T9** GRAB BARS FOR ACCESSIBLE TOILET (1-1/4" DIA. STAINLESS STEEL): 36" LENGTH @ REAR WALL (BOBRICK B-5806X36)
- **T10** GRAB BARS FOR ACCESSIBLE TOILET (1-1/4" DIA. STAINLESS STEEL): 42" LENGTH @ SIDE WALL (BOBRICK B-5806X42)
- **T11** STANDARD TOILET PAPER DISPENSER
- **T12** ACCESSIBLE TOILET PAPER DISPENSER- 3" MAXIMUM PROJECTION
- **T13** SANITARY NAPKIN DISPOSAL, SINGLE COMPARTMENT- 3" MAXIMUM PROJECTION
- **T14** SANITARY NAPKIN DISPOSAL, DUAL COMPARTMENT
- **T15** PIPE INSULATION WRAP
- **T16** MOP STRIP
- **T17** PARTITION-MOUNTED SANITARY NAPKIN DISPOSAL, BOBRICK B-354
- **T18** WALL-HUNG SOLID URINAL SCREEN, 42" HIGH X 18" DEEP
- **T19** TOILET PAPER DISPENSER, NON-ACCESS FACULTY TOILETS
- **T20** SURFACE MOUNTED TOILET TISSUE DISPENSER, BOBRICK B-35745 FOR WOMEN ONLY WITH TAMPON TRASH DISPENSER.
- **T20A** SURFACE MOUNTED TOILET TISSUE DISPENSER, BOBRICK B-3471 FOR MEN ONLY.
- **T21** SEMI-RECESSED SANITARY NAPKIN / TAMPON VENDOR, FREE OPERATION (BOBRICK MODEL #B3706)
- **T22** RECESSED BABY CHANGING STATION MODEL @ KB110-SSRE HORIZONTAL PER DET.\

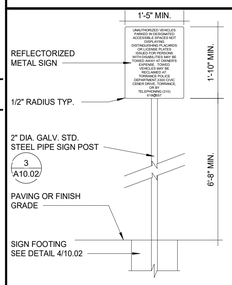
TOILET ACCESSORIES

1. **WOOD TRIM 1X4 (S4S) PAINT TO MATCH DOOR AND WINDOWS FRAMES**
2. **EPOXY PAINT**
3. **EPOXY FLOORING (TNEMEC)**
4. **FRP WALLS**
5. **CONCRETE**
6. **5/8" PLYWOOD, PAINTED**
7. **SEALED CONCRETE**
8. **ROLL UP DOOR**
9. **DOOR AND HOLLOW METAL FRAME**

TOILET KEY NOTES



ACCESSIBLE PARKING SIGN | 5 | 3" = 1'-0"



SIGN NOTES:

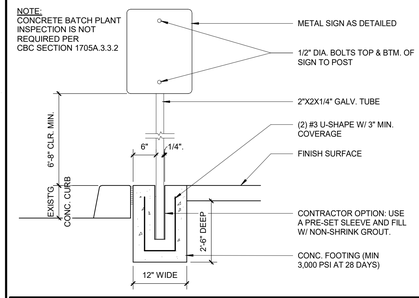
A REFLECTORIZED SIGN SHALL BE PERMANENTLY POSTED IN A CONSPICUOUS PLACE AT EACH ENTRANCE TO OFF-STREET PARKING FACILITIES, OR IMMEDIATELEY ADJACENT TO AND VISIBLE FROM EACH STALL OR SPACE. THE SIGN SHALL NOT BE LESS THAN 17" BY 22" IN SIZE WITH WHITE LETTERING NOTLESS THAN 1" IN HEIGHT ON A DARK BLUE BACKGROUND. WHICH CLEARLY AND CONSPICUOUSLY STATES THE FOLLOWING:

"UNAUTHORIZED VEHICLES PARKED IN DESIGNATED ACCESSIBLE SPACES NOT DISPLAYING DISTINGUISHING PLACARDS OR SPECIAL LICENSE PLATES ISSUED FOR PERSONS WITH DISABILITIES WILL BE TOWED AWAY AT OWNER'S EXPENSE. TOWED VEHICLES MAY BE RECLAIMED AT: EL MONTE POLICE DEPARTMENT 11333 VALLEY BLVD, EL MONTE, CA 91731. OR BY TELEPHONING (626) 580-2100

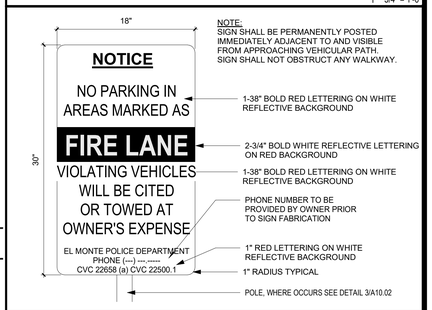
RECLAMATION ADDRESS AND TELEPHONE NUMBER SHALL BE A PERMANENT PART OF THIS SIGN. DARK BLUE BACKGROUND SHALL BE EQUAL TO COLOR NUMBER 15090 IN FEDERAL STANDARD 595B. SIGN SHALL NOT OBSTRUCT PASSAGE BETWEEN STALL AND ANY ACCESSIBLE WALKWAY. SEE SITE PLAN FOR LOCATIONS.

TOW AWAY SIGNAGE | 4 | 1/2" = 1'-0"

NOTE:
CONCRETE BATCH PLANT INSPECTION IS NOT REQUIRED PER CBC SECTION 1705A.3.3.2



POST AND FOOTING FOR SIGNAGE | 3 | 3/4" = 1'-0"



FIRE LANE ENTRY SIGN | 2 | 1 1/2" = 1'-0"

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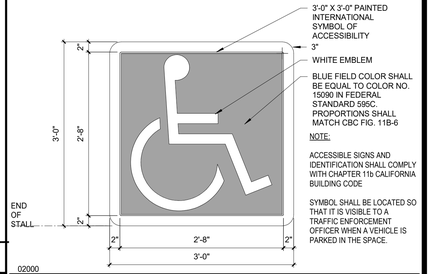

02000

INTERNATIONAL SYMBOL OF ACCESSIBILITY | 1 | 1" = 1'-0"

EXISTING TOILET PLAN AND INTERIOR ELEVATIONS (REFERENCE A# 03_117117) 6 | 1/4" = 1'-0"

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APP: 03-122306 INC:
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HMC Architects
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LICENSED ARCHITECT
VIRGINIA ELAINE MARQUARDT
No. C-33423
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ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

FACILITY:
EL MONTE HIGH SCHOOL
3048 TYLER AVE
EL MONTE, CA 91731

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EL MONTE HIGH SCHOOL TRACK AND FIELD
EXISTING TRACK AND FIELD REPLACEMENT

SHEET NAME:
SITE SIGNAGE

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FAC NO.: XXXXX | BLDG NO.: BLD-XXXXX
DATE 07.11.2023 | CLIENT PROJ NO:
SHEET:

A10.02

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

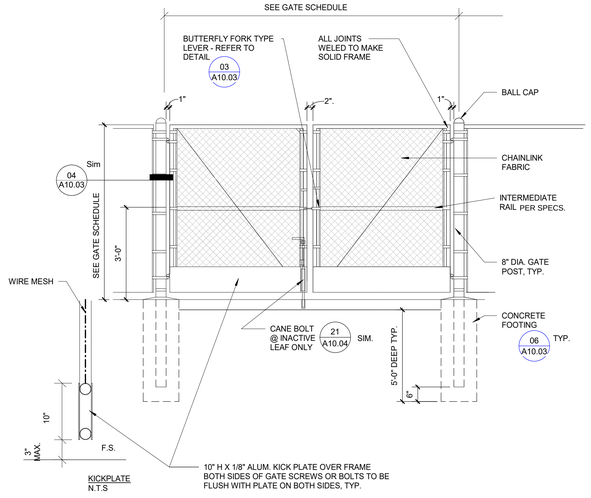
FENCE AND GATE GENERAL NOTES:

1. CANE BOLT TO BE INSTALLED ON THE NON ACCESSIBLE LEAF ONLY. SEE GATE SCHEDULE

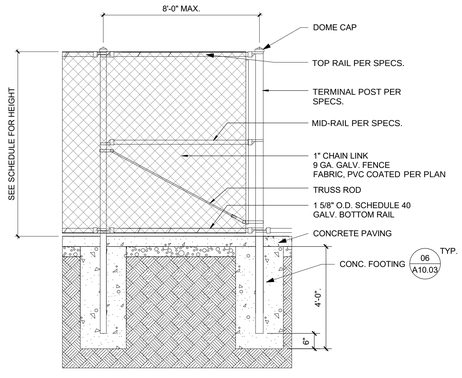
2. EMBED IS LARGER THAN TYP. DETAIL 06/A10.03, AT 5'-0".

3. REFER TO FENCING PLAN SHEET A1.12 FENCING SCHEDULE FOR GATE SIZES TYP.

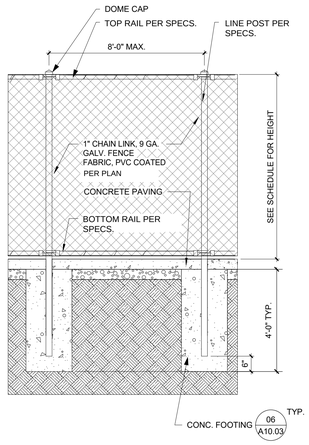
4. GATE POSTS, AND ALL GATE COMPONENTS PER SPECS. UNLESS NOTED OTHERWISE.



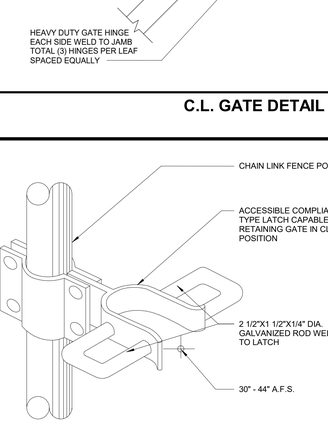
DOUBLE C.L. GATES 18
1/2" = 1'-0"



CHAIN LINK ELEVATION @ END CONDITION 13
1/2" = 1'-0"

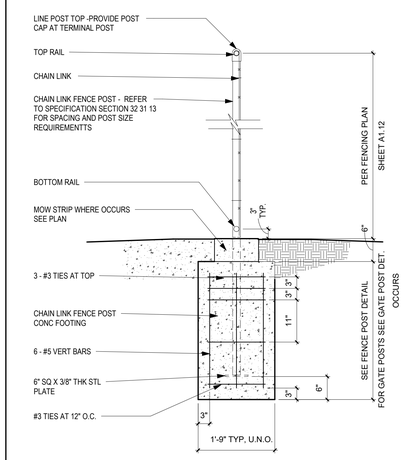


CHAIN LINK ELEVATION - TYP. 11
1/2" = 1'-0"



C.L. GATE DETAIL 04
1/4" = 1'-0"

ACCESSIBLE FORK TYPE LATCH 03
1/2" = 1'-0"



CHAINLINK FOOTING DETAIL 06
3/4" = 1'-0"

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EXISTING TRACK AND FIELD REPLACEMENT

SHEET NAME:
CHAIN LINK GATE & FENCE DETAILS

CONSTRUCTION DOCUMENTS

FAC NO.: XXXXX | BLDG NO.: BLD-XXXXX

DATE 07.11.2023 | CLIENT PROJ NO:

SHEET:

A10.03

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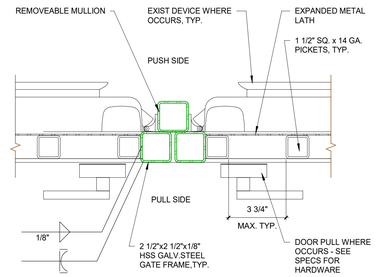
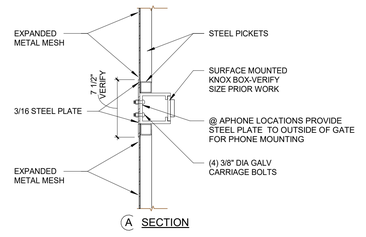
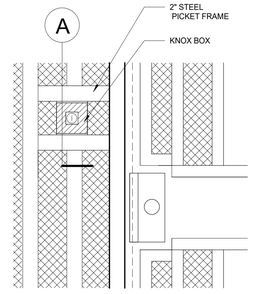


WI GATE DETAIL @ LATCH DOUBLE GATE — 10
3" = 1'-0"

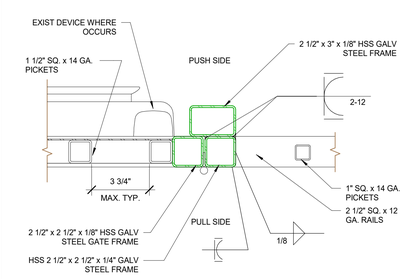


A SECTION

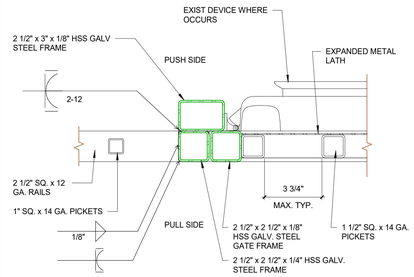


ELEVATION

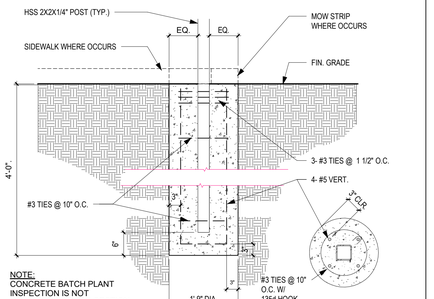
KNOX BOX ENLARGED DETAIL — 9
1 1/2" = 1'-0"



WI GATE DETAIL- HINGE — 5
3" = 1'-0"

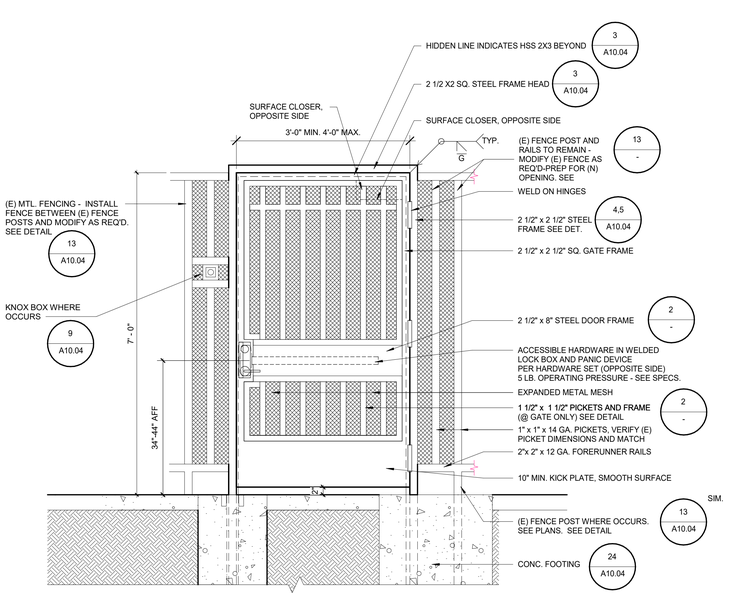


WI GATE DETAIL @ LATCH — 4
3" = 1'-0"

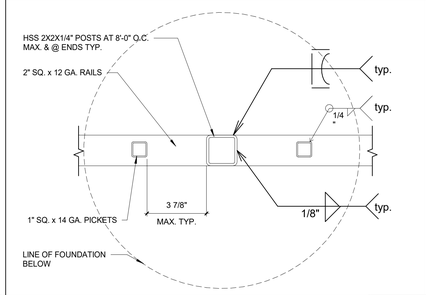


FOOTING SECTION

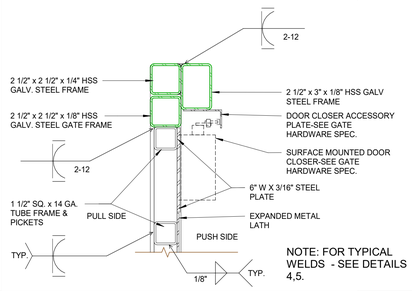
ORNAMENTAL FENCE/ GATE FOUNDATION — 24
3/4" = 1'-0"



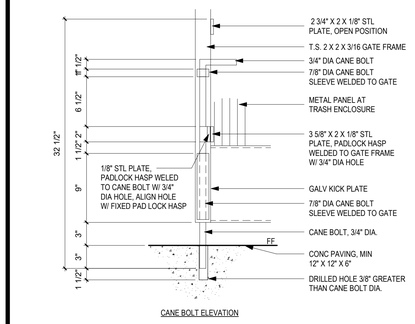
WI ACCESSIBLE PEDESTRIAN GATE ELEVATION — 7
3/4" = 1'-0"



WI GATE DETAIL-INTERMEDIATE POST -TYP. — 8
3" = 1'-0"

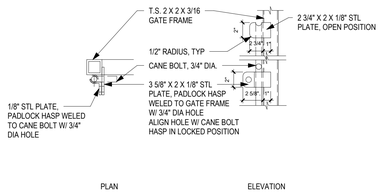


WI GATE DETAIL @ HEAD — 3
3" = 1'-0"



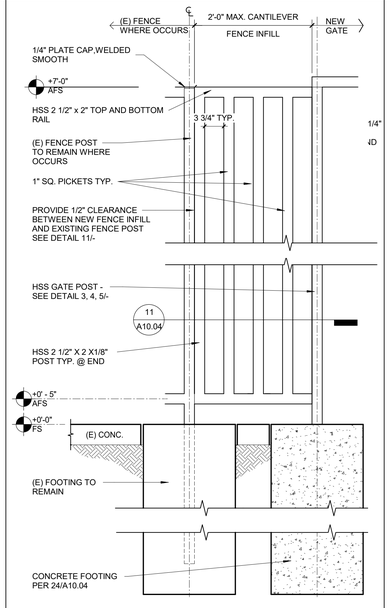
CANE BOLT ELEVATION

NOTE::
CANE BOLTS SHALL NOT BE USED ON EGRESS GATES.

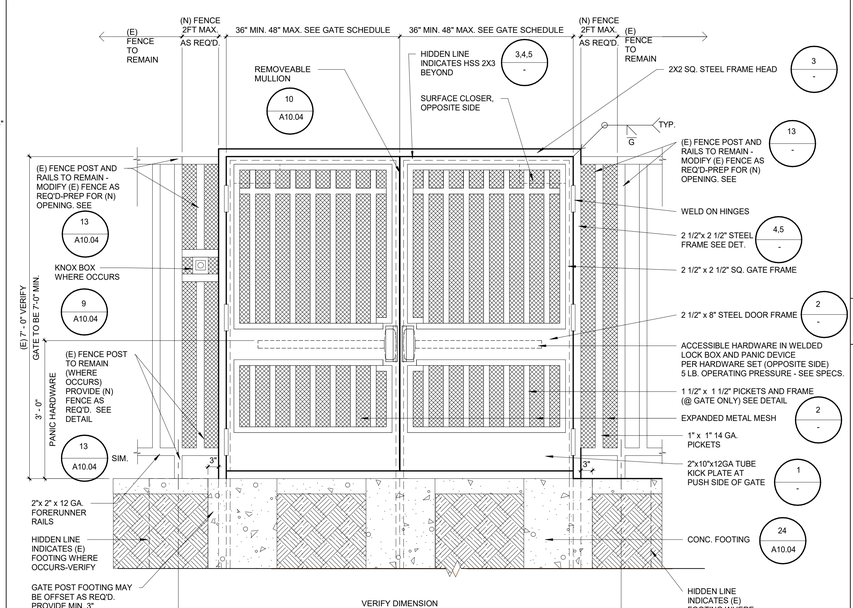


CANE BOLT HOLDER/ PADLOCK HASP

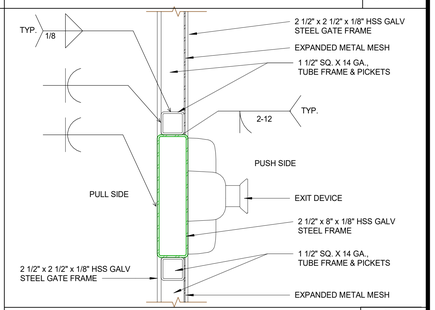
CANE BOLT DETAILS — 21
1 1/2" = 1'-0"



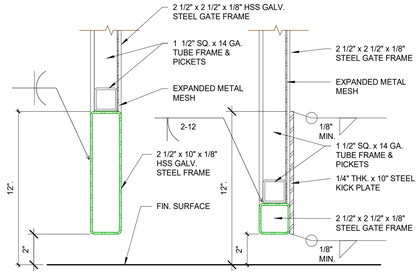
ORN MTL GATE CANTILEVER @ EXISTING (WHERE OCCURS) — 13
1" = 1'-0"



WI GATE ELEV-(DOUBLE GATE SIMILIAR) — 6
3/4" = 1'-0"



WI GATE DETAIL- PUSH BAR — 2
3" = 1'-0"



WI GATE DETAIL-KICKPLATE — 1
3" = 1'-0"

HMC Architects
3361004000
3546 CONCOURS STREET
ONTARIO, CA 91764
909 989 9979 / www.hmcarchitects.com

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

FACILITY:
EL MONTE HIGH SCHOOL
3048 TYLER AVE
EL MONTE, CA 91731

PROJECT:
EL MONTE HIGH SCHOOL TRACK AND FIELD
EXISTING TRACK AND FIELD REPLACEMENT

SHEET NAME:
ORNAMENTAL FENCING DETAILS

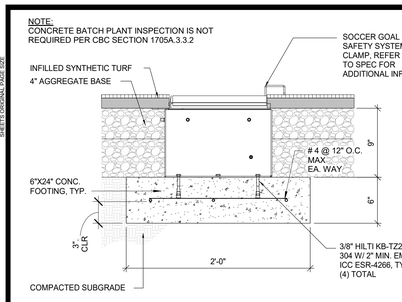
CONSTRUCTION DOCUMENTS

FAC NO.: XXXXX | BLDG NO.: BLD-XXXXX
DATE 07.11.2023 | CLIENT PROJ NO:

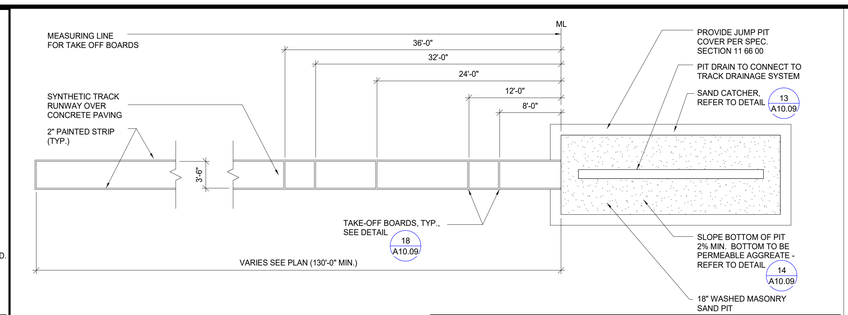
SHEET:
A10.04

7/10/2023 8:06:34 PM

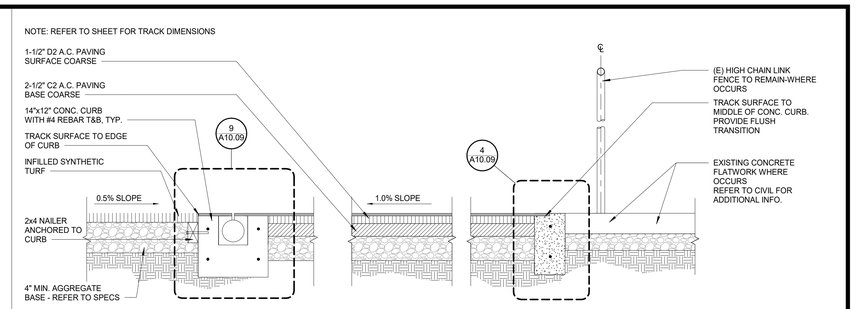
PLEASE RECYCLE



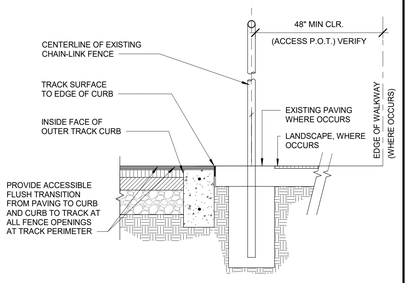
SOCCER SAFETY CLAMP | 25
1 1/2" = 1'-0"



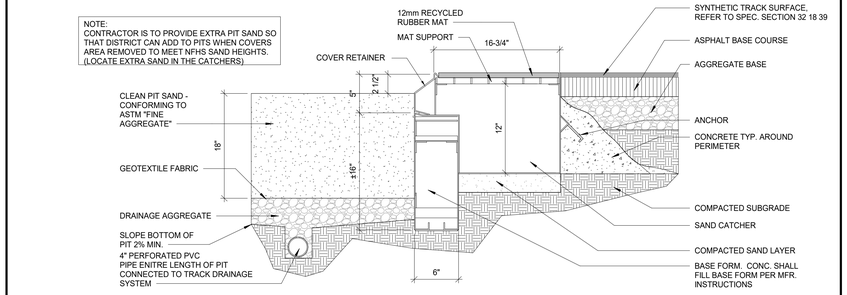
LONG JUMP TRIPLE JUMP PLAN | 15
1/8" = 1'-0"



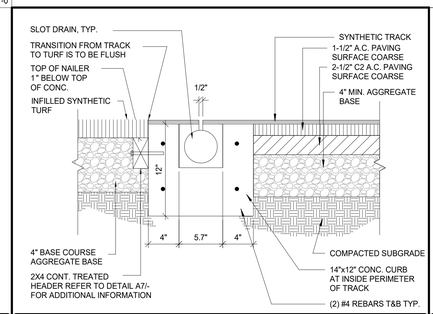
SECTION THROUGH TRACK TYP. | 5
1" = 1'-0"



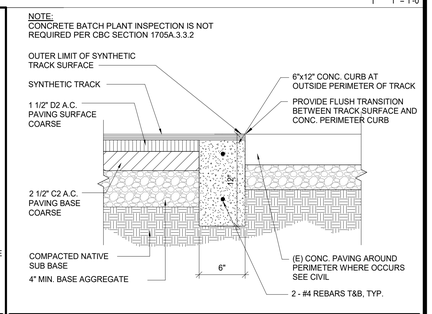
HORIZ. CONTROL OF CL AT TRACK EDGE | 24
1" = 1'-0"



JUMP PIT SAND CATCHER AT EDGE ANCHOR | 14
1 1/2" = 1'-0"



INSIDE CONC CURB AT TRACK EDGE | 9
1 1/2" = 1'-0"



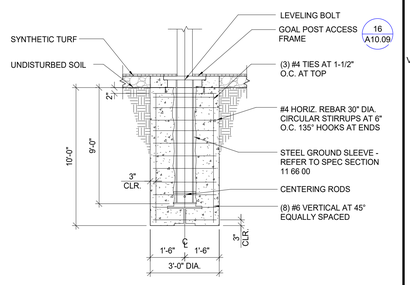
OUTSIDE PERIMETER CONC CURB AT TRACK | 4
1 1/2" = 1'-0"

FOOTBALL GOAL POST - 8 FT OFFSET | 23
1/8" = 1'-0"

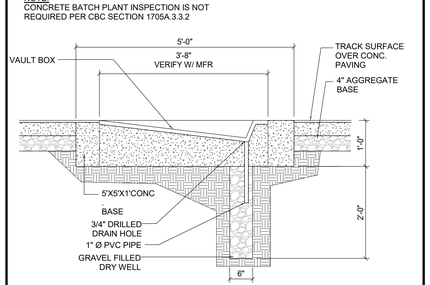
TAKE-OFF BOARD SECTION | 18
1 1/2" = 1'-0"

SAND PIT SAND CATCHER | 13
1/8" = 1'-0"

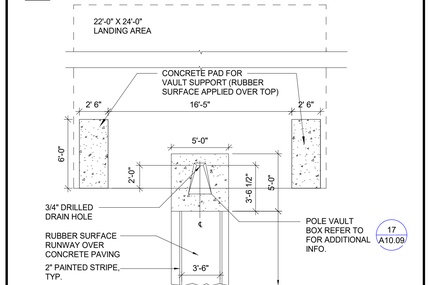
RADIUS POINT MONUMENT | 3
1" = 1'-0"



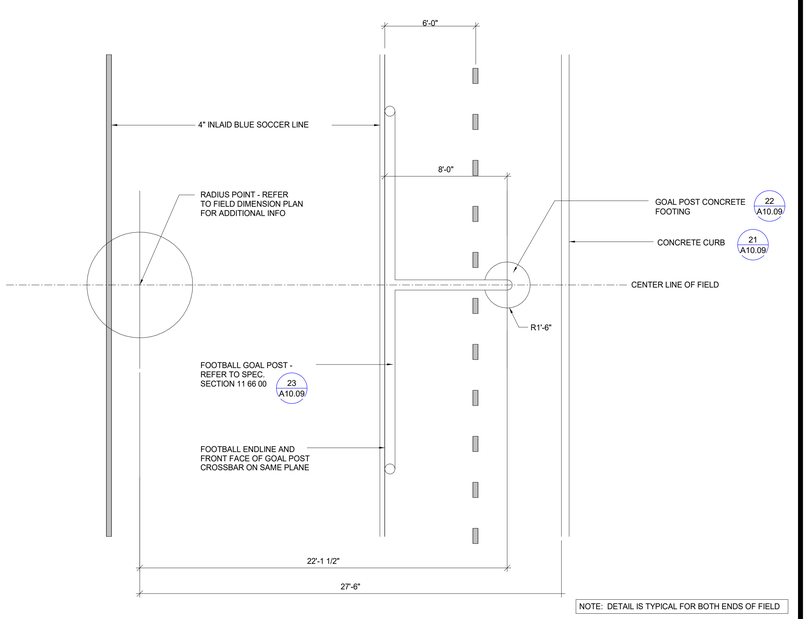
FOOTBALL GOAL POST FOOTING | 22
3/8" = 1'-0"



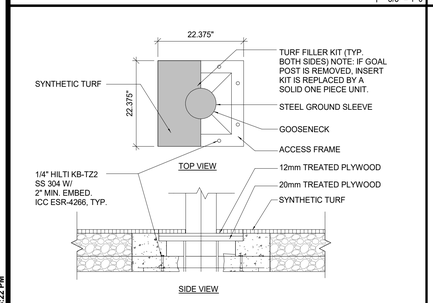
POLE VAULT BOX SECTION | 17
3/4" = 1'-0"



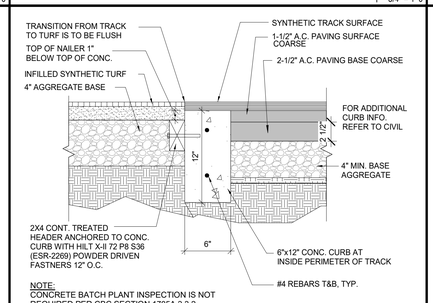
POLE VAULT PLAN LAYOUT | 12
3/16" = 1'-0"



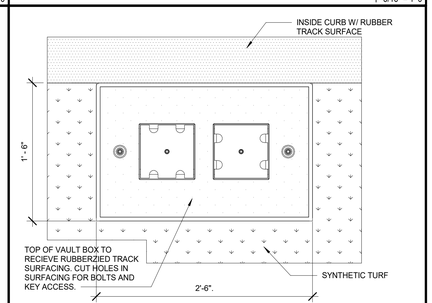
FOOTBALL GOAL POST PLACEMENT | 1
1/4" = 1'-0"



INSIDE CURB @ END ZONES | 21
3/4" = 1'-0"



ACCESS COVER AT GOAL POST | 16
1 1/2" = 1'-0"



UTILITY VAULT PLAN | 11
1 1/2" = 1'-0"

HMC Architects
3361004000
3546 CONCOURS STREET
ONTARIO, CA 91764
909 989 9979 / www.hmcarchitects.com

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122306 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/27/2023

LICENSED ARCHITECT
VIRGINIA ELAINE MARQUARDT
No. C-33423
06/30/2025
STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

FACILITY:
EL MONTE HIGH SCHOOL
3048 TYLER AVE
EL MONTE, CA 91731

PROJECT:
EL MONTE HIGH SCHOOL TRACK AND FIELD
EXISTING TRACK AND FIELD REPLACEMENT

SHEET NAME:
SITE DETAILS - PLAYFIELDS

CONSTRUCTION DOCUMENTS

FAC NO.: XXXXX | BLDG NO.: BLD-XXXXX
DATE 07.11.2023 | CLIENT PROJ NO:
SHEET:

A10.09

7/10/2023 8:54:22 PM

PLEASE RECYCLE

THE LINE SHOWN ABOVE IS 1" WHEN PRINTED ON ANSI D SHEETS ORIGINAL SIZE

DAKTRONICS

DAKTRONICS.COM
201 Daktronics Drive PO Box 5128
Brookings, South Dakota 57006-5128
T 800-325-8766 605-692-0200 F 605-697-4700

July 10, 2023

Carlos Lopez
HMC Architects
3546 Concours St
Ontario, CA 91764

RE: El Monte High School – Daktronics Product Design

To Whom It May Concern,

This letter is regarding the scoreboard display to be installed for El Monte High School at 3048 Tyler Ave El Monte, CA 91731. The display equipment includes an LVX 132x242-16MT video display and a 3ft high full-width non-backlit ad panel for total sign dimensions of 10.25ft high by 25ft wide. The Daktronics equipment listed can withstand wind and seismic loads prescribed in the 2019 CBC with design criteria summarized below.

- ASCE 7-16
- Wind Design Criteria
  - Risk Category: III
  - Exposure: C
  - Design Wind Speed: 101 mph
  - Case A Design Wind Pressure = +/- 28.9 psf (strength-level)
  - Case B Design Wind Pressure = +/- 48.2 psf (strength-level)
- Seismic Design Criteria
  - S_s: 1.848
  - S_1: 0.668
  - Horizontal Seismic Design Force: 0.493Wp (strength-level)
  - Vertical Seismic Design Force: +/- 0.296Wp (strength-level)

Daktronics is not responsible for the design of the support structure including, but not limited to, columns, footings, and support structure.

Sincerely,

Kariah Kurtenbach, PE (South Dakota)
Structural Engineering
Daktronics Inc

LETTER FROM DISPLAY MANUF 19

PROJECT DESIGN CRITERIA

1. WIND LOADS

RISK CATEGORY: III
EXPOSURE CATEGORY: C
BASIC DESIGN WIND SPEED (3-SECOND GUST), V = 101 MPH
ALLOWABLE STRESS DESIGN WIND SPEED, V_{ASD} = 78.23 MPH
VELOCITY PRESSURE EXPOSURE COEFFICIENT, K_z = 0.90 (15-20 FT)
TOPOGRAPHIC FACTOR, K_{zt} = 1.0
WIND DIRECTIONALITY FACTOR, K_d = 0.85
GROUND ELEVATION FACTOR, K_e = 1.00
GUST EFFECT FACTOR, G = 0.85

A. MWFRS – DIRECTIONAL PROCEDURE (ASCE 7-16, CH. 29.3 – SCOREBOARD DESIGN)

$q_z = 0.00256\ K_z\ K_{zt}\ K_d\ K_e\ V^2$ = 19.98 PSF

$P = qGC_f/A_s$

NET FORCE COEFFICIENT, C_f = [FIG. 29.3-1]

B. COMPONENTS & CLADDING (ASCE 7-16, CH. 30)

$q_h = 0.00256\ K_z\ K_{zt}\ K_d\ V^2$ = 19.98 PSF

$P = q_h[(GC_r) – (GC_{ri})]$

EXTERNAL PRESSURE COEFFICIENT, (GC_r) = [FIG. 30.3-1 THRU 30.3-7]
INTERNAL PRESSURE COEFFICIENT, (GC_{ri}) = [TABLE 26.13-1]

2. EARTHQUAKE LOADS

SEISMIC DESIGN CRITERIA

$S_{DS} = 1.848$
$S_{D1} = 0.668$
SITE CLASS: D
$F_a = 1.2$
$F_v = 1.7$
$S_{DS} = 1.478$
$S_{D1} = 0.757$
RISK CATEGORY: III
SEISMIC DESIGN CATEGORY: D

SEISMIC DESIGN REQUIREMENTS (ASCE 7-16, CH. 15 – SCOREBOARD DESIGN)

DESIGN BASE SHEAR: $V = C_sW$
WHERE: $C_s = S_{DS}(R/I_e)$
BUT SHALL NOT BE LESS THAN: $C_s = 0.044S_{DS}I_e \geq 0.03$
BUT NEED NOT EXCEED: $C_s = S_{D1}/[T(R/I_e)]$

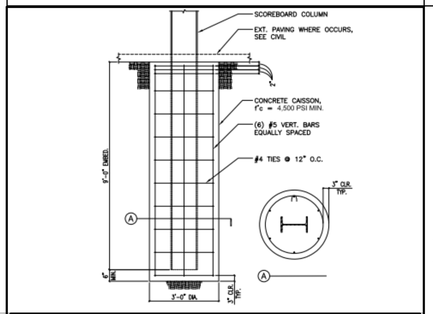
R = 3.0
C_h = 1.75
T = 8
I_e = 1.00
C_s = 0.493
V = 1250 LBS

PRIMARY LATERAL FORCE RESISTING SYSTEM: NONBUILDING STRUCTURES NOT SIMILAR TO BUILDINGS (ASCE 7-16, TABLE 15.4-2, SIGNS AND BILLBOARDS)
ANALYSIS PROCEDURE: NONBUILDING STRUCTURES

3. FOUNDATION LOADS

PRESUMPTIVE SOIL LOAD BEARING VALUES (TITLE 24, PART 2, CHAPTER 1806A)

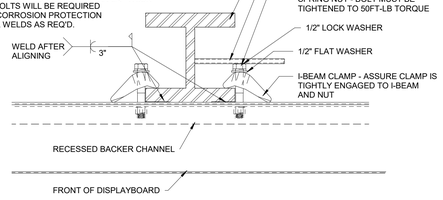
VERTICAL FOUNDATION PRESSURE = 1,500 PSF
LATERAL BEARING PRESSURE = 100 PSF/FT



SCOREBOARD FOOTING 18
3/8" = 1'-0"

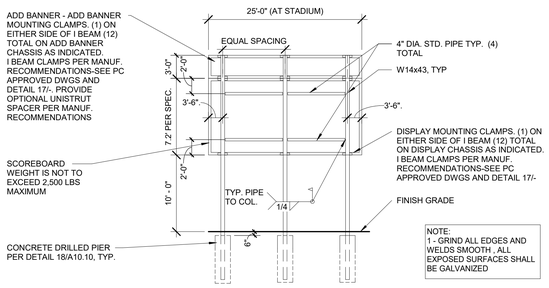
MOUNTING INSTRUCTION:

1. PLACE SPRING NUTS INTO UNISTRUT CHANNEL IN APPROXIMATE LOCATION OF VERTICAL BEAMS
2. LIFT DISPLAY INTO POSITION
3. MAKE SURE THE 1/2-13 BOLTS ARE AS CLOSE TO THE I-BEAM FLANGES AS POSSIBLE
4. WHEN SCOREBOAD IS ADJUSTED TO FINAL DESIRED POSITION, TIGHTEN BOLTS FIRMLY
5. IF FLANGE THICKNESS IS MORE THAN 3/4" THICK LONGER BOLTS WILL BE REQUIRED
6. PROVIDE CORROSION PROTECTION AFTER ALL WELDS AS REQ'D.



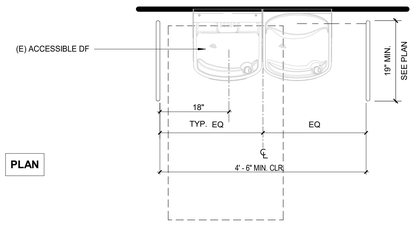
NOTE:
REFER TO DETAIL 16/A10.10 FOR ADDITIONAL INFORMATION

SCOREBOARD DETAIL 17
1/4" = 1'-0"

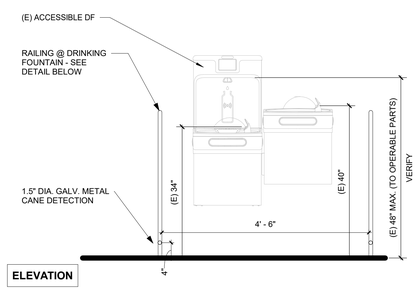


NOTE:
1 - GRIND ALL EDGES AND WELDS SMOOTH , ALL EXPOSED SURFACES SHALL BE GALVANIZED

SCOREBOARD ELEVATION 16
1/8" = 1'-0"

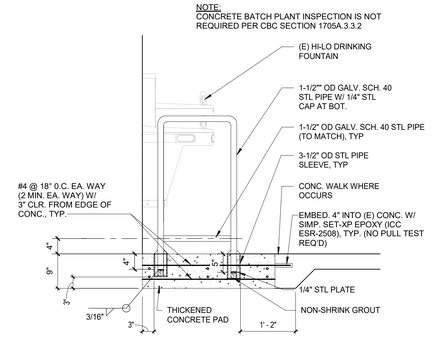


PLAN



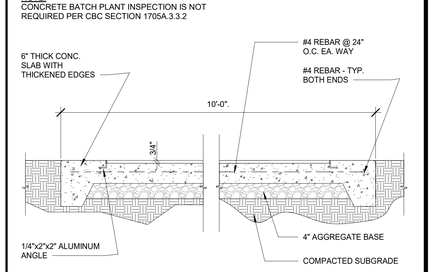
ELEVATION

NOTE:
CONCRETE BATCH PLANT INSPECTION IS NOT REQUIRED PER CBC SECTION 1705A.3.3.2



RAILING AT (E) DRINKING FOUNTAIN 11
3/4" = 1'-0"

NOTE:
CONCRETE BATCH PLANT INSPECTION IS NOT REQUIRED PER CBC SECTION 1705A.3.3.2

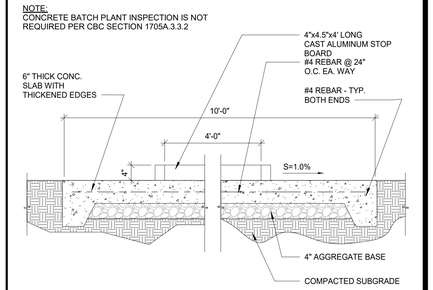


CMU RETAINING WALL 10
1/2" = 1'-0"

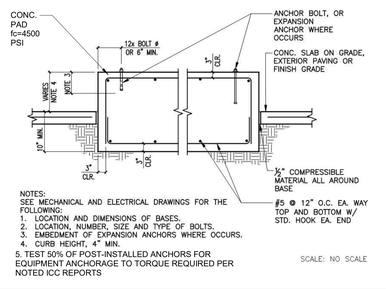
NOTE:
CONCRETE BATCH PLANT INSPECTION IS NOT REQUIRED PER CBC SECTION 1705A.3.3.2

DISCUS THROWING CIRCLE CROSS SECTION 5
3/4" = 1'-0"

NOTE:
CONCRETE BATCH PLANT INSPECTION IS NOT REQUIRED PER CBC SECTION 1705A.3.3.2



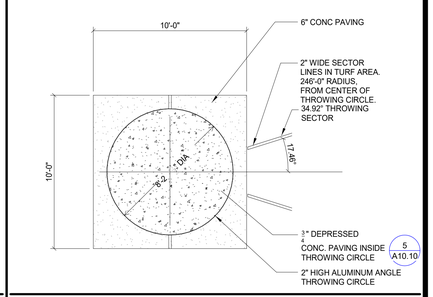
SHOT PUT THROWING CIRCLE SECTION 4
3/4" = 1'-0"



NOTES:
SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR THE FOLLOWING:
1. LOCATION AND DIMENSIONS OF BASES.
2. LOCATION, NUMBER, SIZE AND TYPE OF BOLTS.
3. EMBEDMENT OF EXPANSION ANCHORS WHERE OCCURS.
4. CURB HEIGHT, 4" MIN.
5. TEST 50% OF POST-INSTALLED ANCHORS FOR EQUIPMENT ANCHORAGE TO TORQUE REQUIRED PER NOTED ICC REPORTS

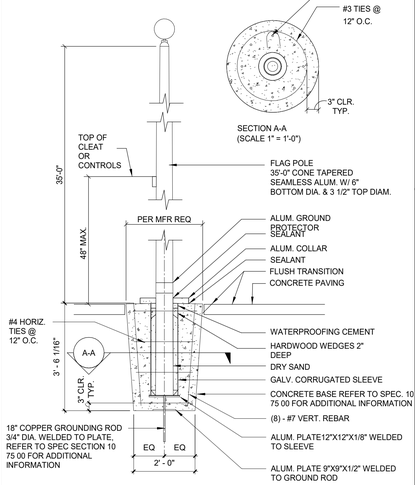
SCALE: NO SCALE

TYPICAL EQUIPMENT PAD 8
3/8" = 1'-0"

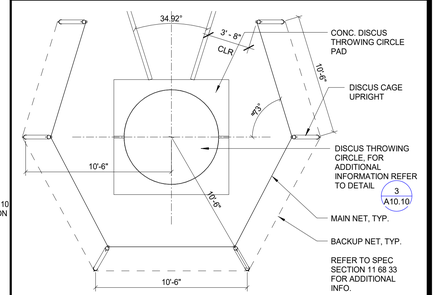


DISCUS THROWING CIRCLE - PLAN 3
1/4" = 1'-0"

NOTE:
NOT PART OF DSA APPROVAL



ALUMINUM FLAG POLE 6
1/2" = 1'-0"



SHOT PUT THROWING CIRCLE 2
1/4" = 1'-0"

DISCUS CAGE LAYOUT 1
3/16" = 1'-0"

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122306 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/27/2023

HMC Architects
3361004000
3546 CONCOURS STREET
ONTARIO, CA 91764
909 989 9979 / www.hmcarchitects.com

LICENSED ARCHITECT
VIRGINIA ELAINE MARQUARDT
No. C-33423
06/30/2025
STATE OF CALIFORNIA

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

FACILITY:
EL MONTE HIGH SCHOOL
3048 TYLER AVE
EL MONTE, CA 91731

PROJECT:
EL MONTE HIGH SCHOOL TRACK AND FIELD
EXISTING TRACK AND FIELD REPLACEMENT

SHEET NAME:
SITE DETAILS MISC.

CONSTRUCTION DOCUMENTS

FAC NO.: XXXXX | BLDG NO.: BLD-XXXXX
DATE 07.11.2023 | CLIENT PROJ NO:
SHEET:

A10.10

7/10/2023 5:54:24 PM

PLEASE RECYCLE

IF THIS LINE SHOWN ABOVE IS LESS THAN 1" THEN DRAWING IS NOT FULL SIZE

GENERAL NOTES

1. ALL PIPES, DUCTS, CONDUITS, RACEWAYS, CABLE TRAYS AND BUS DUCTS SHALL BE ANCHORED AND BRACED TO RESIST THE FORCES PRESCRIBED IN SMACNA SECTION 1632A.6 (AND TABLE 16A-O, FOOTNOTE 12). WHERE POSSIBLE, PIPES, CONDUIT, AND THEIR CONNECTIONS SHALL BE CONSTRUCTED OF DUCTILE MATERIALS (COPPER, DUCTILE IRON, STEEL, OR ALUMINUM AND BRAZED, WELDED, OR SCREWED CONNECTIONS). PIPES, CONDUITS AND THEIR CONNECTIONS, CONSTRUCTED OF NON-DUCTILE MATERIALS (E.G., CAST IRON, NO-HUB PIPE AND PLASTIC), SHALL HAVE THE BRACE SPACING REDUCED TO ONE- HALF OF THE SPACING ALLOWED FOR DUCTILE MATERIAL IN ACCORDANCE WITH SECTION 1630A.5 OR OTHER STANDARDS APPROVED BY THE ENFORCING AGENCY. THE 1998 SMACNA SEISMIC RESTRAINT MANUAL GUIDELINES FOR MECHANICAL SYSTEMS MAY BE REFERENCED IN LIEU OF PROVIDING SPECIFIC DETAILS FOR MOST ORDINARY PIPE AND DUCT SUPPORT AND BRACING.

2. ALL ELECTRICAL PREFABRICATED EQUIPMENT SHALL BE DESIGNED AND CONSTRUCTED IN SUCH A MANNER THAT ALL PORTIONS, ELEMENTS, SUB-ASSEMBLIES AND/OR PARTS OF SAID EQUIPMENT, AND THE EQUIPMENT AS A WHOLE INCLUDING ITS ATTACHMENTS, WILL RESIST A LOAD WHICH EXCEEDS THE FORCE LEVEL USED TO RESTRAIN AND ANCHOR THE EQUIPMENT TO THE SUPPORTING STRUCTURE.

3. ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BE LISTED BY UNDERWRITER'S LABORATORIES (UL) AND BEAR THEIR LABEL, OR LISTED AND CERTIFIED BY A NATIONALLY RECOGNIZED TESTING AUTHORITY WHERE UL DOES NOT HAVE A LISTING. CUSTOM MADE EQUIPMENT SHALL HAVE COMPLETE TEST DATA SUBMITTED BY THE MANUFACTURER ATTESTING TO ITS SAFETY. IN ADDITION, THE MATERIALS, EQUIPMENT, AND INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF THE FOLLOWING:

   AMERICAN SOCIETY OF TESTING MATERIALS (ASTM)
   INSULATED POWER CABLE ENGINEERS ASSOCIATION (IPCEA)
   NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
   AMERICAN STANDARD ASSOCIATION (ASA)
   NATIONAL FIRE PROTECTION AGENCY (NFPA)
   AMERICAN NATIONAL STANDARD INSTITUTE (ANSI)
   CALIFORNIA ELECTRICAL CODE (CEC) - LATEST EDITION
   CALIFORNIA CODE OF REGULATIONS TITLE 24 (CCR)
   INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)
   ALL LOCAL CODES HAVING JURISDICTION.

   WHERE THE CODES HAVE DIFFERENT LEVELS OF REQUIREMENTS, THE MOST STRINGENT RULE SHALL APPLY.

4. THE CONTRACTOR SHALL VISIT THE SITE INCLUDING ALL AREAS INDICATED ON THE DRAWINGS. HE SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND BY SUBMITTING A BID, ACCEPTS THE CONDITIONS UNDER WHICH HE SHALL BE REQUIRED TO PERFORM HIS WORK.

5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A COMPLETE SET OF CONTRACT DOCUMENTS, ADDENDA, DRAWINGS AND SPECIFICATIONS. HE SHALL CHECK THE DRAWINGS OF THE OTHER TRADES AND SHALL CAREFULLY READ THE ENTIRE SPECIFICATIONS AND DETERMINE HIS RESPONSIBILITIES. FAILURE TO DO SO SHALL NOT RELEASE THE CONTRACTOR FROM DOING THE WORK IN COMPLETE ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.

6. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, FEES, CHARGES, AND INCIDENTAL COSTS NECESSARY FOR EXECUTION AND COMPLETION OF ELECTRICAL WORK, INCLUDING ALL CHARGES BY STATE, COUNTY AND LOCAL GOVERNMENTAL AGENCIES.

7. THE CONTRACTOR SHALL PROVIDE AND KEEP UP-TO-DATE A COMPLETE RECORD SET OF DRAWINGS. THESE PRINTS SHALL BE CORRECTED DAILY AND SHOW EVERY CHANGE FROM THE ORIGINAL DRAWINGS. THIS SET OF DRAWINGS SHALL BE KEPT ON THE JOB SITE AND SHALL BE USED ONLY AS A RECORD SET. THIS SHALL NOT BE CONSTRUED AS AUTHORIZATION FOR THE CONTRACTOR TO MAKE CHANGES IN THE LAYOUT WITHOUT DEFINITE INSTRUCTION IN EACH CASE. UPON COMPLETION OF THE WORK, A SET OF REPRODUCIBLE CONTRACT DRAWINGS SHALL BE OBTAINED FROM THE ARCHITECT, AND ALL CHANGES AS NOTED ON THE RECORD SET OF DRAWINGS SHALL BE INCORPORATED THEREON WITH BLACK INK IN A NEAT, LEGIBLE, UNDERSTANDABLE AND PROFESSIONAL MANNER. FAILURE TO KEEP RECORD DRAWINGS UP-TO-DATE SHALL CONSTITUTE CAUSE FOR WITHHOLDING OF PROGRESS PAYMENTS.

8. SHOP DRAWINGS SHALL BE SUBMITTED WITHIN THIRTY DAYS AFTER AWARD OF THE CONTRACT. THE CONTRACTOR SHALL SUBMIT EIGHT COPIES OF A COMPLETE LIST OF MATERIALS AND EQUIPMENT INCLUDING MANUFACTURER AND MODEL NUMBER PROPOSED FOR THE JOB. SHOP DRAWINGS SHALL INCLUDE JOB DESCRIPTION, ARCHITECT AND ENGINEER IDENTIFICATION, AND ALL DATA WITH CAPACITIES, SIZES, DIMENSIONS, CATALOG NUMBERS, AND MANUFACTURER'S BROCHURES. SHOP DRAWINGS UNBOUND SUBMITTALS WILL BE RETURNED WITHOUT REVIEW. CONTRACTOR SHALL SUBMIT A SCHEDULE OF ALL SHOP DRAWINGS AND SUBMITTALS WHICH ARE TO BE REVIEWED WITHIN FIFTEEN DAYS OF CONTRACT AWARD.

9. THE CONTRACTOR SHALL FURNISH A ONE YEAR WRITTEN GUARANTEE OF MATERIALS AND WORKMANSHIP FROM THE DATE OF SUBSTANTIAL COMPLETION.

10. AFTER ALL REQUIREMENTS OF THE SPECIFICATIONS AND/OR THE DRAWINGS HAVE BEEN FULLY COMPLETED, REPRESENTATIVES OF THE OWNERS WILL INSPECT THE WORK. THE CONTRACTOR SHALL PROVIDE COMPETENT PERSONNEL TO DEMONSTRATE THE OPERATION OF ANY ITEM OR SYSTEM TO THE FULL SATISFACTION OF EACH REPRESENTATIVE. FINAL ACCEPTANCE OF THE WORK WILL BE MADE BY THE OWNER AFTER RECEIPT OF APPROVAL AND RECOMMENDATION OF ACCEPTANCE FROM EACH REPRESENTATIVE.

11. ALL FINAL CONNECTIONS TO OWNER FURNISHED EQUIPMENT SHALL BE MADE BY THE CONTRACTOR.

12. EXACT METHOD AND LOCATION OF CONDUIT PENETRATION AND OPENINGS IN CONCRETE OR MASONRY WALLS, FLOORS OR STRUCTURAL STEEL MEMBERS SHALL BE AS DIRECTED BY THE ARCHITECT. PERFORM CORING, SAWCUTTING, PATCHING, AND REFINISHING OF WALLS AND SURFACES WHEREVER IT IS NECESSARY TO PENETRATE. OPENINGS SHALL BE SEALED IN AN APPROVED METHOD TO MEET THE FIRE RATING OF THE PARTICULAR WALL, FLOOR OR CEILING. EXACT METHOD AND LOCATIONS OF CONDUIT PENETRATIONS AND OPENINGS IN CONCRETE WALLS OR FLOORS SHALL BE FOR UL APPROVED SYSTEMS

13. ROUTE EXPOSED CONDUIT AND CONDUIT ABOVE ACCESSIBLE CEILING SPACES PARALLEL AND PERPENDICULAR TO WALLS AND ADJACENT PIPING. ARRANGE CONDUIT TO MAINTAIN HEADROOM AND TO PRESENT A NEAT APPEARANCE.

14. CONDUIT SHALL NOT BE INSTALLED IN ANY FLOOR SLAB. CONDUIT SHALL BE INSTALLED CONCEALED IN THE CEILING SPACE, CONCEALED IN WALLS, OR BELOW SLAB ON GRADE UNLESS NOTED OTHERWISE.

15. ATTENTION IS CALLED TO THE FACT THAT THE CEILING SYSTEMS FOR THE MOST PART ARE CONSIDERED TO BE INACCESSIBLE. THE CONTRACTOR SHALL STRATEGICALLY LOCATE BOXES, ETC., IN AN ACCESSIBLE CEILING SPACE.

16. COORDINATE REQUIRED ACCESS DOORS IN NON-ACCESSIBLE CEILINGS TO SUIT FIELD CONDITIONS. THE EXACT SIZES AND PHYSICAL LOCATIONS SHALL SUIT ACCESSIBILITY AND CONSTRUCTION CONDITIONS. ACCESS DOORS SHALL BE PROVIDED IN OTHER SECTIONS OF THE SPECIFICATIONS. ACCESS DOORS SHALL HAVE A FIRE RATING EQUAL TO THE CEILING ASSEMBLY IN WHICH THEY ARE INSTALLED.

17. WHENEVER A DISCREPANCY IN QUANTITY OR SIZE OF CONDUIT, WIRE, EQUIPMENT DEVICES, CIRCUIT BREAKERS, GROUND FAULT PROTECTION SYSTEMS, ETC. (ALL MATERIALS); ARISES ON THE DRAWINGS OR SPECIFICATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL MATERIAL AND SERVICES REQUIRED BY THE STRICTEST CONDITIONS NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS TO ENSURE COMPLETE AND OPERABLE SYSTEMS AS REQUIRED BY THE OWNER AND ARCHITECT/ENGINEER.

18. UTILITY PENETRATIONS OF ANY KIND IN FIRE AND SMOKE PARTITIONS AND CEILING ASSEMBLIES, SHALL BE FIRESTOPPED AND SEALED WITH AN APPROVED MATERIAL SECURELY INSTALLED STEEL ELECTRICAL OUTLET BOXES WHICH DO NOT EXCEED 16 SQUARE INCHES IN AREA, NEED NOT BE PROTECTED IN ONE HOUR OR TWO HOUR FIRE RATED WALLS, PARTITIONS, CEILINGS, OR AREA SEPARATION UNLESS THEY:

   OCCUR ON OPPOSITE SIDES OF THE WALL WITHIN 24 INCH HORIZONTAL DISTANCE OF ONE ANOTHER. IN THIS CASE, ONLY ONE OUTLET BOX NEED TO PROTECTED BY AN APPROVED FIRESTOP MATERIAL OR DETAIL TO CORRECT THIS CONDITION.

   OCCUR IN COMBINATION WITH OUTLET BOXES OF ANY SIZE SUCH THAT THE AGGREGATE AREA OF UNPROTECTED OUTLET BOXES EXCEEDS 100 SQUARE INCHES IN ANY 100 SQUARE FEET OF WALL AREA. IN THIS CASE, ONLY A SUFFICIENT NUMBER OF OUTLET BOXES NEED BE PROTECTED BY AN APPROVED MATERIAL OR DETAIL TO DECREASE THE AGGREGATE AREA OF UNPROTECTED UTILITY BOXES TO LESS THAN 100 SQUARE INCHES IN ANY 100 SQUARE FEET OF WALL.

   STEEL ELECTRICAL OUTLET BOXES WHICH EXCEED 16 SQUARE INCHES IN AREA, AND ALL OTHER STEEL UTILITY OUTLET BOXES REGARDLESS OF SIZE, SHALL BE PROTECTED BY AN APPROVED FIRESTOP MATERIAL AS LISTED.

   UTILITY AND ELECTRICAL OUTLETS OR BOXES SHALL BE SECURELY FASTENED TO THE STUD OF FRAMING OF THE WALL, PARTITION OR CEILING ASSEMBLY. THE OPENING IN THE GYPSUM BOARD FACING SHALL BE CUT SO THAT THE CLEARANCE BETWEEN THE BOX AND THE GYPSUM BOARD DOES NOT EXCEED 1/8 INCH IN SMOKE WALLS OR PARTITIONS, THE 1/8 INCH CLEARANCE SHALL BE FILLED WITH AN APPROVED FIRE-RATED SEALANT.

   REFER TO SINGLE LINE DIAGRAM AND FEEDER SCHEDULES FOR CONDUIT AND CONDUCTOR SIZE TO PANELS, TRANSFORMERS, MECHANICAL AND PLUMBING EQUIPMENT, ETC., CONDUIT RUNS MAY NOT BE SHOWN ON DRAWINGS, BUT ARE PART OF THIS CONTRACT.

19. STRAIGHT FEEDER, BRANCH CIRCUIT, AND CONDUIT RUNS SHALL BE PROVIDED WITH SUFFICIENT PULL BOXES OR JUNCTION BOXES TO LIMIT THE MAXIMUM LENGTH OF ANY SINGLE CABLE PULL TO 100 FEET. PULL BOXES SHALL BE SIZED PER CODE OR AS INDICATED ON DRAWINGS. LOCATIONS SHALL BE DETERMINED IN THE FIELD OR AS INDICATED ON THE DRAWINGS.

20. MAXIMUM NUMBER OF CONDUCTORS IN OUTLET OR JUNCTION BOXES SHALL CONFORM TO THE CALIFORNIA ELECTRICAL CODE, ARTICLE 370-6, BUT IN NO CASE SHALL CONTAIN MORE THAN THE FOLLOWING NUMBER OF #12 AWG CONDUCTORS FOR THE SIZE OF BOX INDICATED. THE MINIMUM SIZE OUTLET OR JUNCTION BOX PERMITTED IN A WALL IS FOUR INCHES SQUARE BY 1 1/2 INCHES DEEP.

   SQUARE BY 1 1/2" D = 9 CONDUCTORS
   4" SQUARE BY 2 1/8" D = 13 CONDUCTORS
   4 11/16" SQUARE BY 1 1/2" D = 11 CONDUCTORS
   4 11/16" SQUARE BY 2 1/8" D = 18 CONDUCTORS
   ALL OUTLET BOXES CONTAINING MORE THAN ONE DEVICE SHALL BE GANGED. TWO DEVICES DOUBLE GANGED, MINIMUM.

21. WHERE MULTI-HOMERUNS ARE INDICATED ON DRAWINGS INDICATING THE SAME PANELBOARD CIRCUIT NUMBER, PROVIDE JUNCTION BOX ABOVE ACCESSIBLE CEILING AND ROUTE ONE SET OF WIRES TO CIRCUIT BREAKERS.

22. IDENTIFICATION NAMEPLATES SHALL BE MICARTA 1/8 INCH THICK AND OF APPROVED SIZE WITH BEVELED EDGES AND ENGRAVED WHITE LETTERS A MINIMUM OF 1/4 INCH HIGH ON BLACK BACKGROUND. NAMEPLATES SHALL BE PROVIDED FOR ALL CIRCUITS IN THE SERVICE DISTRIBUTION AND POWER DISTRIBUTION SWITCHBOARDS OR PANELBOARDS, MOTOR CONTROL CENTERS, LIGHTING DISTRIBUTION PANELBOARDS, SEPARATELY MOUNTED STARTING SWITCHES, DISCONNECTING SWITCHES, MOTOR CONTROL PUSH-BUTTON STATIONS, SELECTOR SWITCHES, TRANSFORMERS, TERMINAL CABINETS, TELEPHONE CABINETS, ETC. ALL NAMEPLATES SHALL BE ATTACHED WITH SCREWS. (SEE SPECIFICATIONS) PULLBOXES, JUNCTION BOXES, AND DEVICE BOXES SHALL BE MARKED WITH A PERMANENT MARKER.

23. THE EXACT LOCATION OF ALL ELECTRICAL DEVICES AND EQUIPMENT SHALL BE COORDINATED WITH THE ARCHITECTURAL ELEVATIONS, DETAILS, OR SECTIONS PRIOR TO INSTALLATION. ALL ELECTRICAL DEVICES AND EQUIPMENT SHALL BE SURFACE MOUNTED UNLESS OTHERWISE NOTED. OUTLETS NOT INDICATED ON ARCHITECTURAL ELEVATIONS SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO ROUGH-IN. UNLESS OTHERWISE NOTED, MOUNT ELECTRICAL DEVICES AT THE FOLLOWING HEIGHTS:

   WALL SWITCH AT CMU WALL +48" SET VERTICALLY
   WALL SWITCH AT DRY WALL +48" SET VERTICALLY
   CONVENIENCE RECEPTACLE AT CMU WALL +1'-6" SET VERTICALLY.
   OUTLETS AT COUNTERS WITHOUT SINK 38" SET VERTICALLY.

   MOUNTING HEIGHTS OF ALL DEVICES AND EQUIPMENT ARE FROM FINISHED FLOOR TO CENTER OF DEVICES AND EQUIPMENT UNLESS OTHERWISE NOTED. BOXES INSTALLED IN LOCATIONS NOT APPROVED BY THE ARCHITECT SHALL BE RELOCATED AS DIRECTED BY THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.

24. DRAWINGS ARE DIAGRAMMATIC ONLY AND DO NOT SHOW SPECIAL CONDUIT ROUTING OR LENGTHS REQUIRED FOR A COMPLETE INSTALLATION. ROUTING OF RACEWAYS SHALL BE AT THE OPTION OF THE CONTRACTOR BUT SHALL BE IN STRICT COMPLIANCE WITH STRUCTURAL REQUIREMENTS AND SPECIFICATIONS UNLESS OTHERWISE NOTED AND SHALL BE COORDINATED WITH OTHER TRADES. NO CONDUIT SHALL BE ROUTED HORIZONTALLY IN MASONRY WALLS IN EXCESS OF 48". DO NOT SCALE THE ELECTRICAL DRAWINGS FOR LOCATIONS OF ANY ELECTRICAL, ARCHITECTURAL, STRUCTURAL, CIVIL, OR MECHANICAL ITEMS OR FEATURES, REFER TO ARCHITECTURAL AND STRUCTURAL DIMENSIONAL DRAWINGS.

25. THE EQUIPMENT GROUNDING CONDUCTOR ALTHOUGH NOT SHOWN ON CONDUIT RUNS, SHALL BE INSTALLED AND RUN CONTINUOUS FROM PANEL TO LAST OUTLET. THIS WIRE SHALL BE PIGTAILED IN EACH OUTLET FOR CONNECTION TO BOX AND DEVICE SO THAT IF DEVICE IS REMOVED, GROUND WILL NOT BE INTERRUPTED. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL BE INSULATED GREEN CONDUCTORS-ALTERNATE METHODS OF IDENTIFICATION SHALL NOT BE USED. CONTRACTOR SHALL NOTIFY ELECTRICAL ENGINEER TO EXAMINE CONDUCTOR INSTALLATION PRIOR TO INSTALLATION OF DEVICES.

26. JUNCTION AND PULL BOXES: FOR INTERIOR DRY LOCATIONS, BOXES SHALL BE GALVANIZED ONE-PIECE, DRAWN STEEL, KNOCKOUT TYPE WITH REMOVABLE MACHINE SCREW SECURED COVERS. FOR OUTSIDE, DAMP, OR SURFACE LOCATIONS, BOXES SHALL BE HEAVY CAST ALUMINUM OR CAST IRON WITH REMOVABLE, GASKETED, NON-FERROUS MACHINE SCREW SECURED COVERS. BOXES SHALL BE SIZED FOR THE NUMBER AND SIZES OF CONDUCTORS AND CONDUIT ENTERING THE BOX AND EQUIPPED WITH PLASTER EXTENSION RINGS WHERE REQUIRED. BOXES SHALL BE LABELED TO INDICATE PANEL AND CIRCUIT NUMBER, OR TYPE OF SIGNAL OR COMMUNICATIONS SYSTEM.

27. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF ALL SEISMIC SEPARATIONS.

28. IT IS THE INTENT OF THE PLANS AND SPECIFICATIONS THAT A COMPLETE AND WORKABLE ELECTRICAL INSTALLATION BE PROVIDED FOR ALL THE EQUIPMENT DESCRIBED OR SHOWN AS BEING IN THIS CONTRACT. FURNISH ALL LABOR AND TOOLS NECESSARY AND FURNISH AND INSTALL ALL APPARATUS, MATERIALS AND EQUIPMENT IN A FASHION COMPLYING WITH ALL APPLICABLE CODES, INCLUDING ITEMS REQUIRED BUT NOT NORMALLY SHOWN, SUCH AS LAMPS, HANGERS, BRACKETS, CLAMPS, COUPLINGS, BOXES, CONNECTORS AND HARDWARE REFER ALSO TO WRITTEN SPECIFICATIONS FOR GENERAL, MECHANICAL AND ELECTRICAL SECTIONS.

29. ALL LINE VOLTAGE WIRING SHALL BE #12 AWG COPPER WITH THWN/THHN INSULATION AND IN 3/4" DIAMETER CONDUIT MINIMUM. IN EACH CONDUIT WITHOUT CONDUCTORS, PROVIDE ONE #12 TW COPPER PULL WIRE WITH TAG IDENTIFYING LOCATION OF OPPOSITE END.

30. THE CENTER OF ELECTRICAL AND COMMUNICATION SYSTEM RECEPTACLE OUTLETS SHALL BE INSTALLED NOT LESS THAN 15" OR MORE THAN 48" ABOVE THE FLOOR OR WORKING PLATFORMS, (ADA).

31. ANY LENGTH OF FEEDERS OR BRANCH CIRCUITS SHOWN ON ALL DRAWINGS ARE FOR USE IN DESIGN CALCULATIONS ONLY AND NOT TO BE USED FOR ANY OTHER PURPOSES.

32. FURNISH AND INSTALL POWER DISTRIBUTION PANELBOARDS AS INDICATED ON THE DRAWINGS. PANELBOARDS SHALL COMPLY WITH NEMA STANDARD FOR PANELBOARDS AND FEDERAL SPECIFICATION W-P-115A. PANELBOARDS SHALL BE COMPLETE WITH COPPER BUS BARS, 40 DEGREE CELSIUS THERMAL MAGNETIC BOLT-ON TYPE CIRCUIT BREAKERS AND TYPED CIRCUIT DIRECTORY CARD AS INDICATED ON DRAWINGS. PANELBOARDS SHALL BE SQUARE D OR EQUAL BY SIEMENS, ITE, WESTINGHOUSE, OR GENERAL ELECTRIC.

33. FURNISH AND INSTALL GENERAL PURPOSE, K-1, PAD TRANSFORMER AS INDICATED ON THE DRAWINGS, WITH 150°C TEMPERATURE RISE, COPPER WINDING MATERIAL, NEMA-3R VENTED ENCLOSURE, FRAME 924, TAPS: 2 @ + 2.5% AND 2 @ - 2.5%, NEMA ST20 SOUND LEVEL. 60 AND NEMA TP-1 ENERGY EFFICIENT. COMPLETE WITH MANUFACTURER SEISMIC QUALIFICATION CERTIFICATION, DIMENSIONED OUTLINED DRAWINGS, EQUIPMENT ANCHORAGE DEVICES, TEXT REPORTS AND COMPLIANCE WITH IEEE C57.12.91 "TEST CODE FOR DRY-TYPE DISTRIBUTION AND POWER TRANSFORMERS". MANUFACTURED BY EATON, SIEMENS OR SQUARE-D.

34. INSTALLATION OF THE FIRE ALARM SYSTEM SHALL NOT BE STARTED UNTIL DETAILED PLANS, SPECIFICATIONS AND ENGINEERING CALCULATIONS HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT IN GENERAL CHARGE OF DESIGN AND THE SIGNATURE OF THE ARCHITECT OR PROFESSIONAL ENGINEER WHO HAS BEEN DELEGATED RESPONSIBILITY COVERING THE WORK SHOWN ON A PARTICULAR PLAN OR SPECIFICATION, AND APPROVED BY THE LOCAL FIRE AUTHORITY. THE FIRE ALARM SYSTEM INDICATED IN THESE DRAWINGS SHALL BE USED FOR BIDDING PURPOSES ONLY AND ARE NOT FOR CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT FIRE ALARM SYSTEM SHOP DRAWINGS TO THE LOCAL FIRE AUTHORITY FOR APPROVAL PRIOR TO INSTALLATION. SYSTEM SHALL MEET THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS.

35. SIGNAL AND COMMUNICATIONS SYSTEMS (DATA, SECURITY, FIRE ALARM) PROVIDE A COMPLETE AND OPERABLE EXTENSION TO THE EXISTING SYSTEMS AS INDICATED ON THE DRAWINGS. THESE SYSTEMS SHALL BE PROVIDED AS A SINGLE SUBCONTRACT UNDER THE ELECTRICAL CONTRACT. IN THE INTEREST OF MAINTENANCE CONVENIENCE AND CAPABILITY, THE NEW EQUIPMENT SHALL MATCH THAT OF EXISTING SYSTEMS AS INSTALLED IN ADJACENT AREAS. ALL EQUIPMENT AND CABLE SHALL BE PROVIDED BY THE AUTHORIZED DISTRIBUTOR. PROVIDE ALL BACKBOXES PER MANUFACTURERS REQUIREMENTS. SUBMIT ENGINEERED SHOP DRAWINGS FOR EACH SIGNAL AND COMMUNICATION SYSTEM TO THE ARCHITECT FOR REVIEW.

MEP COMPONENT ANCHORAGE NOTES

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2019 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 28, AND 30:

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

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

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

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

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-16 SECTION 13.3 AS DEFINED IN ASCE 7-16 SECTIONS 13.6.5. 13.6.6, 13.6.7, 13.6.8; AND 2019 CBC, SECTIONS 1617A.1.24, 1617A.1.25 AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (E.G., OSHPD OPM FOR 2013 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):

MP☐ MD☐ PP☐ E☑ - OPTION 1: DETAILED ON APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.

MP☐ MD☐ PP☐ E☐ - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVAL (OPM #) #_____.

APPLICABLE CODES

BUILDING OCCUPANCY CLASSIFICATION: GROUP E

THE CONSTRUCTION OF THIS PROJECT SHALL CONFORM TO THE REQUIREMENTS OF:

APPLICABLE CODE AS OF JANUARY 1, 2017

Part 1 2019 California Building Standards Administrative Code, Title 24 C.C.R.
Part 2 2019 California Building Code, Title 24 C.C.R. (2018 International Building Code of the International Code Council, with California Amendments)
Part 3 2019 California Electrical Code, Title 24 C.C.R. (2019 National Electrical Code of the National Fire Protection Association, NFPA)
Part 4 2019 California Mechanical Code, Title 24 C.C.R. (2018 Uniform Mechanical Code of the International Association of Plumbing and Mechanical Officials, IAPMO)
Part 5 2016 California Plumbing Code, Title 24, C.C.R. (2015 Uniform Plumbing Code of the International Association of Plumbing and Mechanical Officials, IAPMO)
Part 6 2019 California Energy Code, Title 24 C.C.R.
Part 7 currently vacant
Part 8 2019 California Historical Building Code, Title 24 C.C.R.
Part 9 2019 California Fire Code, Title 24 C.C.R. (2015 International Fire Code of the International Code Council
Part 10 2019 California Existing Building Code, Title 24 C.C.R. (2018 International Existing Building Code of the International Code Council, with amendments)
Part 11 2019 California Green Building Standard Code (CALGreen Code), Title 24 C.C.R.
Part 12 2019 California Referenced Standards Code, Title 24 C.C.R.

PARTIAL LIST OF APPLICABLE STANDARDS

2019 California Building Code (for SFM) Referenced Standards Chapter 35

NFPA 13	AUTOMATIC SPRINKLER SYSTEMS (California Amended)	2019 Edition
NFPA 14	STANDPIPE SYSTEMS (California Amended)	2016 Edition
NFPA 17	DRY CHEMICAL EXTINGUISHING SYSTEMS	2017 Edition
NFPA 17A	WET CHEMICAL EXTINGUISHING SYSTEMS	2017 Edition
NFPA 20	STATIONARY PUMPS	2016 Edition
NFPA 24	PRIVATE FIRE SERVICE MAINS (California Amended)	2016 Edition
NFPA 72	NATIONAL FIRE ALARM AND SIGNALING CODE (California Amended) (Note: See UL Standard 1971 for "Visual Devices"	2016 Edition
NFPA 80	FIRE DOOR AND OTHER OPENING PROTECTIVES	2016 Edition
NFPA 253	CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEM	2006 Edition
NFPA 2001	CLEAN AGENT FIRE EXTINGUISHING SYSTEMS (California Ameded)	2016 Edition

SHEET INDEX

SCOPE OF WORK

PROJECT SCOPE IS LIMITED TO SIGN DISPLAY LIGHTING AND PROVIDING COMMUNICATION AND POWER INFRASTRUCTURE CONDUIT ON SITE AT FAR SIDE OF TRACK.

AGENCY APPROVAL:

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122306 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/27/2023

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Δ	DESCRIPTION	DATE

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T. 626.650.0350 F. 626.650.0352
www.pbsengineers.com Job no. 2022-011-00

PROFESSIONAL ENGINEER — E17249 — EXP. 06-30-2024 — ELECTRICAL — STATE OF CALIFORNIA

FACILITY:
EL MONTE HIGH SCHOOL
3048 TYLER AVE
EL MONTE, CA 91731

PROJECT:
EL MONTE HIGH SCHOOL TRACK AND FIELD
EXISTING TRACK AND FIELD REPLACEMENT

SHEET NAME:
GENERAL NOTES, APPLICABLE CODES AND SHEET INDEX

CONSTRUCTION DOCUMENTS

FAC NO.: XXXXX | BLDG NO.: BLD-XXXXX
DATE 07.11.2023 | CLIENT PROJ NO:
SHEET:

E0.01

P:\P-2022\2022-011-00 EMUHSD-El Monte HS Stadium Upgrade\10_BIM-CAD\MEP\E0.01.dwg 1/4/2023 3:23 PM Victor Rodriguez

PLE

SYMBOLS LIST

EA — EXISTING CONDUIT RUN AND WIRES TO BE ABANDONED.

E — CONDUIT RUN FOR POWER.

EN — EXISTING CONDUIT RUN TO REMAIN. NEW CONDUCTORS TO BE ADDED, REFER TO PLANS FOR WIRING REQUIREMENTS.

EX — EXISTING CONDUIT RUN TO REMAIN. EXISTING CONDUCTORS TO BE REMOVED. REFER TO PLANS FOR WIRING REQUIREMENTS.

CONDUIT RUN, CONCEALED IN CEILING, WALLS OR UNDER FLOORS.

CONDUIT RUN EXPOSED.

CONDUIT RUN UNDERGROUND.

CONDUIT STUBBED OUT AND CAPPED. PULL LINE IN PLACE.

AIC — "AMPERES INTERRUPTING CAPACITY"

#10 — CROSS LINES ON CONDUIT RUNS INDICATE NUMBER OF #12 CURRENT CARRYING CONDUCTORS CONTAINED THEREIN. TWO #12 AND ONE #12 GROUND WIRE ARE INDICATED WHEN CROSS LINES ARE NOT SHOWN. NUMERALS ADJACENT TO CROSS LINES ON CONDUIT RUNS INDICATE SIZE OF CONDUCTORS IN LIEU OF #12. ALL CONDUITS SHALL CONTAIN ONE GROUND WIRE SIZED PER C.E.C. TABLE 250-95, BUT NOT SMALLER THAN #12. EXAMPLE: #10 AWG

B-1,3 — CONDUIT HOMERUN TO PANELBOARD. LETTER AND NUMERALS INDICATE ELECTRICAL PANEL AND CIRCUIT NUMBER.

SURFACE MOUNTED BRANCH CIRCUIT PANELBOARD.

RECESSED BRANCH CIRCUIT PANELBOARD.

P1 — PANEL DESIGNATION.

RECESSED COMMUNICATION TERMINAL CABINET. REFER TO DRAWINGS AND SPECIFICATIONS.

SURFACE MOUNTED COMMUNICATION TERMINAL CABINET. REFER TO DRAWINGS AND SPECIFICATIONS.

J — JUNCTION BOX IN ACCESSIBLE CEILING SPACE OR FLUSH IN WALL WITH BLANK COVER PLATE TO MATCH DEVICE PLATES.

M — THREE PHASE FRACTIONAL OR INTEGRAL HORSEPOWER MOTOR. NUMERAL IN PLACE OF "M" INDICATES HORSEPOWER.

100AF / 70AT, 3P — MOLDED CASE CIRCUIT BREAKER. "AF" INDICATES AMPERE FRAME, "AT" INDICATES AMPERE TRIP RATING AND NUMBER OF POLES AS INDICATED. SUBSCRIPT INDICATES TYPE.

NO SUBSCRIPT	THERMAL MAGNETIC
NA	NON-AUTOMATIC
MO	MAGNETIC ONLY
CL	CURRENT LIMITING
SS	SOLID STATE

VOLTAGE TRANSFORMER, FLOOR MOUNTED, COPPER WOUND, DRY TYPE UNLESS SPECIFIED OTHERWISE.

CURRENT TRANSFORMERS, "C.T.s"

POTENTIAL TRANSFORMER, P.T.s".

GROUND, "GRD".

GFI — "GROUND FAULT INTERRUPTER"

1a — CEILING LIGHT FIXTURE AND OUTLET, HID, FLUORESCENT, OR INCANDESCENT. LOWER CASE LETTER INDICATES CONTROLLING SWITCH, NUMERAL INDICATES CIRCUIT. SHADED SYMBOL INDICATES FIXTURE WITH EMERGENCY POWER PROVISIONS.

1a — FLUORESCENT LIGHT FIXTURE OUTLET. LOWER CASE LETTER INDICATES CONTROLLING SWITCH, NUMERAL INDICATES CIRCUIT. SHADED CIRCLE DENOTES FIXTURE WITH EMERGENCY POWER PROVISIONS.

1a — BRACKET OR WALL MOUNTED LIGHT FIXTURE AND OUTLET, HID, FLUORESCENT OR INCANDESCENT. LOWER CASE LETTER INDICATES CONTROLLING SWITCH, NUMERAL INDICATES CIRCUIT. SHADED CIRCLE DENOTES FIXTURE WITH EMERGENCY POWER PROVISIONS.

ILLUMINATED EXIT LIGHT FIXTURE. SIDE, BACK, CEILING, OR PENDANT MOUNTED, SINGLE OR DOUBLE FACED AS NOTED BY SHADED ARC, WITH OR WITHOUT DIRECTIONAL ARROW AS NOTED ON THE DRAWINGS. NOT TO BE USED AS JUNCTION BOX OR "THROUGH-WIRE" DEVICE.

STAGE LIGHT

Q 106 21, +9'-0" — LIGHTING FIXTURE IDENTIFICATION SYMBOL. LETTER INDICATES FIXTURE TYPE. NUMERALS IN LOWER HALF OF HEXAGON INDICATE FIXTURE WATTAGE (INCLUDING BALLAST WHERE APPLICABLE). NUMERAL OUTSIDE TOP OF HEXAGON INDICATES NUMBER OF FIXTURES REQUIRED. NUMERAL OUTSIDE BOTTOM OF HEXAGON INDICATES MOUNTING HEIGHT FROM FLOOR TO BOTTOM OF FIXTURE. OMISSION OF MOUNTING HEIGHT INDICATES CEILING MOUNTING.

S — WALL MOUNTED PASSIVE INFRARED OCCUPANCY SENSOR. MOUNT AT + 48 INCHES.

DS — OCCUPANCY SENSOR COMPLETE WITH ALL POWER SUPPLIES, RELAY PACKS AND CONNECTIONS. REFER TO SPECIFICATIONS FOR TYPE AND DESCRIPTION.

3k Sa — SWITCH. LOWER CASE LETTER AT BOTTOM INDICATES OUTLETS CONTROLLED. CAPITAL SUPERSCRIPT INDICATES SWITCH TYPE.

NO SUPERSCRIPT	- SINGLE POLE SWITCH
2	- DOUBLE POLE
3	- THREE WAY
4	- FOUR WAY
I	- ILLUMINATED HANDLE
K	- KEYED SWITCH
LC	- LOCKABLE COVER
M	- MANUAL MOTOR STARTER WITH THERMAL OVERLOAD PROTECTION
MC	- MOMENTARY CONTACT
P	- PILOT LIGHT
PR	- PRESS TYPE
TP	- THREE POSITION
T	- TIMER, 0-6 HR ROTARY OR AS NOTED

PARKING LOT FIXTURES IN NORMAL CIRCUIT.

PARKING LOT FIXTURES IN EMERGENCY CIRCUIT.

H WP — FIRE ALARM HORN, EXTERIOR. WP = WEATHERPROOF

WALL MOUNTED OUTDOOR FIXTURE IN EMERGENCY CIRCUIT.

PC — PHOTOCELL.

DS — DAYLIGHT SENSOR. COORDINATE EXACT LOCATION AND QUANTITY WITH MANUFACTURER.

DUPLEX GROUNDING TYPE RECEPTACLE, 20 AMP, 125 VOLT, 2 POLE, 3 WIRE. MOUNTED 6" ABOVE COUNTER.

C — DUPLEX GROUNDING TYPE RECEPTACLE, 20 AMP, 125 VOLT, 2 POLE, 3 WIRE. "C" INDICATES CEILING MOUNT.

DUPLEX GROUND FAULT INTERRUPTING TYPE RECEPTACLE, 20 AMP, 125 VOLT, 2 POLE, 3 WIRE.

TWO DUPLEX GROUND FAULT INTERRUPTING TYPE RECEPTACLE, 20 AMP, 125 VOLT, 2 POLE, 3 WIRE.

TWO DUPLEX GROUNDING TYPE RECEPTACLES IN 4S BOX, 20 AMP, 125 VOLT, 2 POLE, 3 WIRE.

FLUSH FLOOR MOUNTED DUPLEX GROUNDING TYPE RECEPTACLE, 20 AMP, 125 VOLT, 2 POLE, 3 WIRE.

FLUSH FLOOR MOUNTED DUPLEX GFCI TYPE RECEPTACLE, 20 AMP, 125 VOLT, 2 POLE, 3 WIRE.

A — SPECIAL PURPOSE OUTLET MOUNTED IN FLUSH WALL BOX. LETTER INDICATES TYPE.

A - NEMA TYPE 14-20R (208 VOLT, 3 PHASE, 20 AMP)
B - NEMA TYPE 6-20R (208 VOLT, 1 PHASE, 20 AMP)
C - NEMA TYPE 6-30R (208 VOLT, 1 PHASE, 30 AMP)
D - NEMA TYPE 14-50R (208 VOLT, 1 PHASE, 50 AMP)
E - NEMA TYPE 5-30R (120 VOLT, 1 PHASE, 30 AMP)
F - NEMA TYPE 15-30R (208 VOLT, 3 PHASE, 30 AMP)
G - NEMA TYPE 15-60R (208 VOLT, 1 PHASE, 60 AMP)
H - NEMA TYPE 5-15R (120 VOLT, 1 PHASE, 15 AMP)
K - NEMA TYPE L14-20P (120 VOLT, 1 PHASE, 30 AMP)

100AS — NON-FUSED DISCONNECT SWITCH. "AS" INDICATES SWITCH AMPERE RATING.

100AS / 60AF, F — FUSED DISCONNECT SWITCH. "AS" INDICATES SWITCH AMPERE RATING. "AFU" INDICATES FUSE AMPERE RATING.

VFD II — MAGNETIC MOTOR STARTER. ROMAN NUMERAL INDICATES NEMA STARTER SIZE. ADDITIONAL SUBSCRIPTS INDICATE STARTER TYPE AND SIZE. (TYPICAL FOR ALL MAGNETIC STARTER SYMBOLS.)

NO SUBSCRIPT	- FULL VOLTAGE, NON REVERSING
PR	- PRIMARY RESISTOR REDUCED VOLTAGE
AT	- AUTOTRANSFORMER REDUCED VOLTAGE
WD	- WYE-DELTA REDUCED VOLTAGE
PW	- PART WINDING REDUCED VOLTAGE
SS	- SOLID STATE REDUCED VOLTAGE
REV	- REVERSING TYPE
2S	- TWO SPEED
2W	- TWO WINDINGS
CH	- CONSTANT HORSEPOWER
CT	- CONSTANT TORQUE
VT	- VARIABLE TORQUE
VFD	- VARIABLE FREQUENCY DRIVE

COMBINATION MAGNETIC MOTOR STARTER AND NON-FUSED DISCONNECT SWITCH.

F II — COMBINATION MAGNETIC MOTOR STARTER AND FUSED DISCONNECT SWITCH.

I — COMBINATION MAGNETIC MOTOR STARTER AND CIRCUIT BREAKER.

I — COMBINATION MAGNETIC MOTOR STARTER AND MOTOR CIRCUIT PROTECTOR.

SINGLE PHASE FRACTIONAL OR INTEGRAL HORSEPOWER MOTOR.

T — THERMOSTAT OUTLET. MOUNT AT +48 INCHES UNLESS OTHERWISE NOTED.

T — TRANSFORMER, PRIMARY & SECONDARY VOLTAGE AND KVA RATING AS NOTED. TYPE AND CONFIGURATION AS SPECIFIED. PROVIDE DRY TYPE, COPPER WOUND, WALL OR BOX MOUNTED UNLESS NOTED OTHERWISE.

WM / PM — MULTI-OUTLET SURFACE METAL RACEWAY WITH SINGLE RECEPTACLES 18 INCHES ON CENTER UNLESS NOTED OTHERWISE ON DRAWINGS OR IN SPECIFICATIONS.

SURFACE NON-METALLIC THREE COMPARTMENT RACEWAY FOR POWER AND SIGNAL SYSTEM ROUTING. (WIREMOLD 5500 SERIES OR APPROVED EQUAL). PROVIDE OUTLETS (POWER/DATA) AS INDICATED ON DRAWINGS.

TELEPHONE TERMINAL BACKBOARD "TTB". 3/4 INCH SANDED AND PAINTED CPX PLYWOOD, 4' X 8' UNLESS NOTED OTHERWISE.

TELEPHONE OUTLET, FLUSH FLOOR MOUNTED. REFER TO SPECIFICATIONS.

FLUSH FLOOR MOUNTED COMPUTER OUTLET. REFER TO SPECIFICATIONS.

PEDESTAL TYPE FLOOR COMPUTER OUTLET. REFER TO SPECIFICATIONS.

T — TELEPHONE SYSTEM CONDUIT RUN 3/4"C WITH (1) CAT-6 CABLE TO TERMINAL BLOCK LOCATED ON WALL ADJACENT TO DATA CABINET. RUN CABLE IN CEILING SPACE VIA CONDUIT TO TELEPHONE BACKBOARD.

D/T — COMBINATION VOICE DATA CONDUIT. RUN 1"C WITH (2) 4 PAIR CAT-6 (DATA), (1) 4 PAIR CAT-6 (VOICE).

M — MICROPHONE OUTLET

W — TELEPHONE OUTLET. MOUNT AT +18 INCHES TO CENTER UNLESS OTHERWISE NOTED. "F" INDICATES FIREMAN'S PHONE OUTLET. PROVIDE ALL CONNECTIONS TO FIRE ALARM SYSTEM AND ELEVATOR CONTROLS PER MANUFACTURER'S REQUIREMENTS. "W" ADJACENT INDICATES WALL MOUNTED AT +54 INCHES TO CENTER. "2" DENOTES DUPLEX OUTLET. "P" DENOTES PUBLIC TELEPHONE OUTLET MOUNTED AT +48 INCHES. RUN 3/4" CONDUIT ONLY WITH PULL LINE TO TELEPHONE TERMINAL BACKBOARD.

D — COMPUTER SYSTEM CONDUIT RUN. 1"C WITH (2) FOUR-PAIR CAT-6 CABLE TO DATA CABINET. STUB CONDUIT IN CEILING SPACE AND RUN CABLES IN CEILING SPACE TO DATA CABINET VIA CONDUIT.

COMPUTER OUTLET WITH 2 DATA DROPS, MOUNT AT +18 INCHES TO CENTER UNLESS OTHERWISE NOTED.

COMBINATION VOICE/DATA OUTLET WITH 2 DATA DROPS AND 1 VOICE DROP. 4S BOX WITH 2 GANG RING AND PLATE. ENGRAVE PLATE "VOICE" AND "DATA" OVER RESPECTIVE JACKS. VERIFY TYPE OF JACK WITH SYSTEM SUPPLIER.

FLUSH WALL MOUNTED SINGLE FACE CLOCK. MOUNT AT +90 INCHES UNLESS INDICATED OTHERWISE ON DRAWINGS. BATTERY POWERED, REFER TO SPECIFICATIONS.

P — PAGING SOUND SYSTEM CONDUIT RUN. MASTER ANTENNA TV SYSTEM CONDUIT AND CABLE. 3/4" MINIMUM. SEE SPECIFICATIONS AND RISER DIAGRAM ON SHEET E8.05 FOR MORE DETAILS.

VC — VOLUME CONTROL. MOUNT AT +48 INCHES UNLESS OTHERWISE NOTED.

S — WEATHERPROOF TYPE SPEAKER, BACKBOX AND GRILLE FLUSH MOUNTED. MOUNT AT +8'-0", U.N.O.

SI — SECURITY/INTRUSION SYSTEM CONDUIT RUN 3/4" CONDUIT NUMBER ADJACENT TO "SI" INDICATES NUMBER OF CABLES. RUN CABLES IN CEILING SPACE VIA CONDUIT TO TERMINAL CABINET. REFER TO SPECIFICATIONS FOR WIRING.

ALS — ASSISTIVE LISTENING SYSTEM

FD–SD — COMBINATION FIRE SMOKE DAMPER

TV — TV OUTLET 3/4" STUB UP TO CEILING ACCESS - +18" A.F.F. OR U.N.O.

C — COMPUTER OUTLET WITH 2 DATA DROPS, CEILING MOUNT.

S — PA SYSTEM EXTERIOR LOUD SPEAKER.

DVD — DVD OUTLET 3/4" STUB UP TO CEILING ACCESS - +18" A.F.F. OR U.N.O.

AV — SQUARE BOX CRESTRON #IM-RXV1-M FOR CLASSROOM AUDIO AND VIDEO SYSTEM. SEE SPECIFICATIONS FOR MORE DETAILS.

PVS — AUDIO VISUAL SWITCHER-MOUNTED INSIDE CEILING.

TVSS — SURGE PROTECTION DEVICE.

PASSIVE INFRARED MOTION DETECTOR, REFER TO SPECIFICATIONS. MOUNT PER MANUFACTURERS REQUIREMENTS.

S — SPEAKER WITH PROPER MATCHING TRANSFORMER, BACKBOX AND GRILLE.

L — "L" INDICATES MULTI PURPOSE ROOM SOUND SYSTEM LOUD SPEAKER.

FOC — 12 STRANDED MULTI MODE FIBER OPTIC CABLES..

P C — CEILING MOUNTED PROJECTOR.

E — EXISTING EQUIPMENT WITH "E" ADJACENT IS TO REMAIN.

R — EXISTING EQUIPMENT WITH "R" ADJACENT IS TO BE COMPLETELY DISCONNECTED AND REMOVED.

RR — EXISTING EQUIPMENT WITH "RR" ADJACENT IS TO BE DISCONNECTED, REMOVED AND RELOCATED TO NEW LOCATION AND RECONNECTED AS REQUIRED.

ER — RELOCATED EQUIPMENT SHOWN IN NEW LOCATION.

BRANCH CIRCUIT PANELBOARD, 3Ø,4W SYSTEM UNLESS NOTED OTHERWISE. SEE PANEL SCHEDULES FOR TYPE AND DETAIL.

PB — PULLBOX. REFER TO DRAWINGS FOR REQUIREMENTS.

DETAIL NO. / ENLARGED REFERRENCE / SHEET NO.

KEYNOTES

TYPICAL REMODEL KEYNOTE SYMBOL

TYPICAL DEMOLITION KEYNOTE SYMBOL

ABBREVIATIONS

AFF	AMPERE FINISHED FLOOR
AFU	AMPERE FUSE RATING
AIC	AMPS INTERRUPTING CAPACITY RATING (RMS SYMMETRICAL)
AMP, A	AMPERES
AS	AMPERE SWITCH RATING
AT	AMPERE TRIP RATING OF BREAKER
AWG	AMERICAN WIRE GAUGE
BKR	BREAKER
C.	CONDUIT
CAB	CABINET
CAT.	CATEGORY
CCTV	CLOSE CIRCUIT TELEVISION
C.O.	CONDUIT ONLY
CR	CONTROL RELAY (MAGNETICALLY HELD UNLESS NOTED OTHERWISE)
CU	COPPER
D	DEMOLISH/REMOVE
DISTR	DISTRIBUTION
DWG	DRAWING
ELEV	ELEVATION
EMERG	EMERGENCY
EQPT	EQUIPMENT
EXH	EXHAUST
E, EX	EXISTING TO REMAIN
FAA	FIRE ALARM ANNUNCIATOR
FDR	FEEDER
FF	FINISHED FLOOR
FG	FINISHED GRADE
FS	FLOW SWITCH
FLEX	FLEXIBLE
FLUOR	FLUORESCENT
F.O.	FIBER OPTIC
FUT	FUTURE
GND	GROUND
HTR	HEATER
HZ	HERTZ
IDF	INTERMEDIATE DISTRIBUTION FRAME
J.B.	JUNCTION BOX
K	THOUSAND (KILO)
KV	KILOVOLTS
KW	KILOWATTS
KWH	KILOWATT HOURS
KVA	KILOVOLT AMPERES
LS	LIMIT SWITCH
LT, LTS	LIGHT, LIGHTS
LTG	LIGHTING
MDF	MAIN DISTRIBUTION FRAME
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCM	THOUSAND CIRCULAR MILS
MH	MANHOLE
MS	MANUAL MOTOR STARTER
MTD	MOUNTED
NEC	NATIONAL ELECTRICAL CODE
NO	NUMBER
NTS	NOT TO SCALE
PNL	PANEL
PWR	POWER
PB	PULLBOX
R	RELOCATE
RE	RELOCATE EXISTING
RECPTS	RECEPTACLES
REQD	REQUIRE
SCH	SCHEDULE
SEC	SECONDS, SECONDARY
SEQ	SEQUENCE
SHT	SHEET
SM	SINGLE MODE
SPECS	SPECIFICATIONS
STA	STATION
SYS	SYSTEM
TBD	TO BE DETERMINED
TR	TIME DELAY RELAY
TS	TAMPER SWITCH
TTB	TELEPHONE TERM. BKBD
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UGPS	UNDERGROUND PULL SECTION
V	VOLTMETER
VFD	VARIABLE FREQUENCY DRIVE
W	WATTS
WHM	WATT HOUR METER
WP	WEATHERPROOF
XFMR	TRANSFORMER

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PROFESSIONAL ELECTRICAL ENGINEER — E17249 — EXP. 06-30-2024 — STATE OF CALIFORNIA

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EXISTING TRACK AND FIELD REPLACEMENT

SHEET NAME:
ABBREVIATIONS AND SYMBOLS LIST

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FAC NO.: XXXXX | BLDG NO.: BLD-XXXXX

DATE 07.11.2023 | CLIENT PROJ NO:

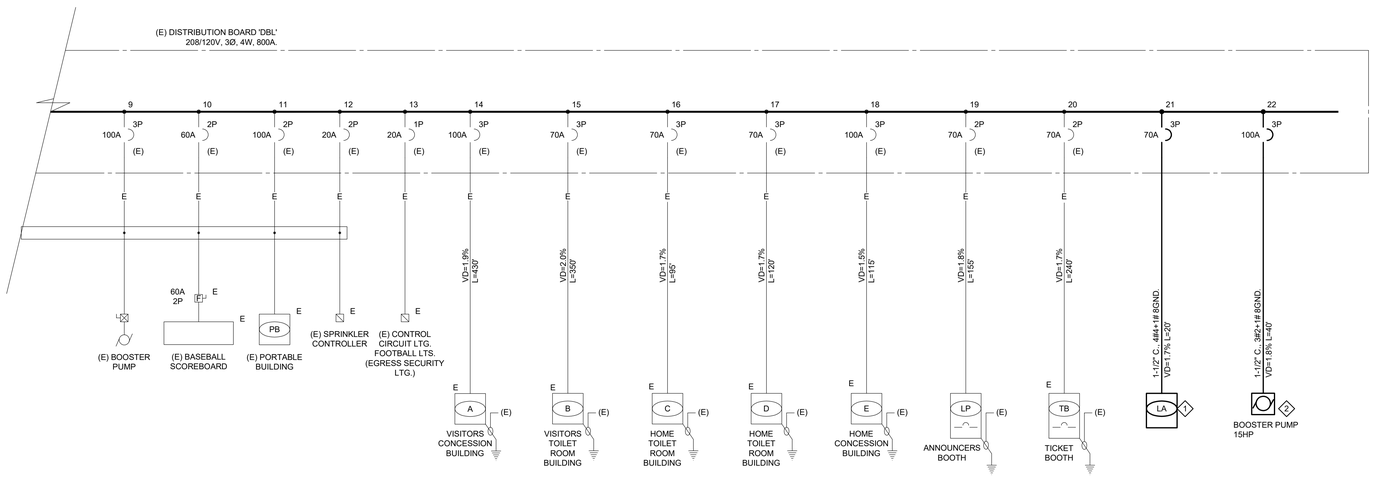
SHEET:

E0.02

IF THIS LINE SHOWN ABOVE IS NOT 1" LONG THEN ALL DIMENSIONS ARE 50% SMALLER THAN SHOWN

KEY NOTES

1. NEW PANEL BOARD TO BE USED TO CONNECT NEW FEEDERS TO FEED SCOREBOARD, POLE LIGHTING AND IN-GROUND BOXES WITH RECEPTACLES.
2. NEW BOOSTER PUMP FEEDERS TO "DBL" PROVIDE NEW CIRCUIT BREAKERS TO MATCH EXISTING BOARD MANUFACTURER AND BREAKER CHARASTICTS.



PARTIAL EXISTING SINGLE LINE DIAGRAM

EXISTING LOAD SUMMARY FOR PANEL DBL & TRANSF "T2"

EXISTING LOAD (BASED ON 12 MONTH DEMAND HISTORY)	=	112.0 KVA
112.0 KVA x 125%	=	140.0 KVA
NEW LOAD ADDED PNL LA, 15HP PUMP	=	25.8 KVA
TOTAL NEW LOAD	=	165.8 KVA
TOTAL AMPS	=	461.0 AMPS

EXISTING SERVING TRANSF. T2 IS 225KVA 480-120/208V,3P,4W

PANEL- LA

MOUNTING: SURFACE — VOLTAGE: 120/208V,3Ø,4W — NORMAL BRANCH — 10,000 AIC SYM — LOCATION:ELECTRICAL ROOM — 100 AMP BUS — 70A-3P MAIN CB

DESCRIPTION	VOLT-AMPERES ØA	ØB	ØC										VOLT-AMPERES ØA	ØB	ØC	DESCRIPTION
FLAG POLE LIGHTING	900				1	20	1	2	20	1			500			RECEPTACLES BOX
SCORE BOARD		2200			2	30	3	4	20	1				500		RECEPTACLES BOX
SCORE BOARD			2200		-	-	5	6	20	1					500	RECEPTACLES BOX
MURAL SIGN LIGHTING	500				1	20	7	8	20	1			500			RECEPTACLES BOX
SPARE					1	20	9	10	20	1				500		RECEPTACLES BOX
SPARE					1	20	11	12	20	1					500	RECEPTACLES BOX
SPARE					1	20	13	14	20	1						SPARE
SPARE					1	20	15	16	20	1						SPARE
SPARE					1	20	17	18	20	1						SPARE
SPARE					1	20	19	20	20	1						SPARE
SPARE					1	20	21	22	20	1						SPARE
SPARE					1	20	23	24	20	1						SPARE
VA PER PHASE	1400	2200	2200										1000	1000	1000	VA PER PHASE
													2400	3200	3200	TOTAL VA PER PHASE
													8800			TOTAL CONNECTED VA

CONTINUOUS LOAD 400 x1.25= 500 VA
+ OTHER= 8400 VA
TOTAL LOAD= 8900 VA — 25 AMPS

CEILING OUTLETS =
CONV. OUTLETS =
MISC. OUTLETS =

THIS PANEL IS FED BY:

NOTES
1
2
3
4

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SHEET NAME:
PARTIAL SINGLE LINE DIAGRAM AND PANEL SCHEDULES

CONSTRUCTION DOCUMENTS

FAC NO.: XXXXX | BLDG NO.: BLD-XXXXX
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SHEET:

E0.03

P:\P-2022\2022-011-00 EMUHSD-El Monte HS Stadium Upgrade\10_BIM-CAD\MEP\E0.03.dwg 6/3/2022 8:40 AM Victor Rodriguez

PLEASE RECYCLE

THE LINE BROWN ABOVE IS EXACTLY 1" WHEN PLOTTED ON 30X42 ORIGINAL SHEET SIZE

REMODEL KEY NOTES

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	FINISH	LAMP(S)	MANUFACTURER & NO.
LG	NEW LED IN GROUND LIGHTING FIXTURE MOUNTED IN CONCRETE PAD.	STAINLESS STEEL	25W	LUMIERE 3002 LED- RD 25LED4000-MFL-CLR-UNIV-NSS SERIES
-	-	-		- -
-	-	-	-	- -
-	-	-	- - -	- - - -
-	-	-	-	- -
-	-	-	- -	- -

LIGHTING FIXTURE NOTES

1. REFER TO LIGHTING FIXTURE SCHEDULE FOR TYPE OF FIXTURE TO BE PROVIDED AND INSTALLED.
2. REFER TO GENERAL NOTES, DRAWING E0.01 FOR ADDITIONAL REQUIREMENTS.
3. ALL LIGHT FIXTURES SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS AND CONSTRUCTION SPECIFICATIONS.
4. PROVIDE ALL HANGERS, CLIPS AND NECESSARY HARDWARE TO INSTALL THE SPECIFIED FIXTURE AS INTENDED BY THE MANUFACTURER, THE ENGINEER AND TO INSURE U.L. INTEGRITY. ALL PENDANT MOUNTED FIXTURES SHALL BE PROVIDED WITH SEISMIC SAFETY AIRCRAFT TYPE CABLE INSIDE PENDANT SECURED TO MAIN FIXTURE HOUSING AND STRUCTURE ABOVE.
5. CONFLICTS BETWEEN CATALOG NUMBERS AND FIXTURE DESCRIPTIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION.
6. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL SURFACES TYPES AND CONDITIONS PRIOR TO RELEASING FIXTURE ORDERS. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY HARDWARE FOR MOUNTING THE SPECIFIED FIXTURE IN THE VERIFIED CEILING TYPE. NOTIFY THE ENGINEER FOR CLARIFICATION IMMEDIATELY.
7. THE LIGHT FIXTURES, LAMPS SPECIFIED HAVE BEEN DONE TO INSURE THAT ENERGY, FOOTCANDLE REQUIREMENTS, AESTHETIC AND PERFORMANCE ISSUES HAVE BEEN MET.
8. NOTIFY THE ARCHITECT AND ENGINEER UPON COMPLETION OF ROUGH-IN AND PRIOR TO CLOSING CEILINGS SO THAT FIELD INSPECTIONS CAN BE ARRANGED.
9. FINAL AND EXACT LOCATION OF LIGHTING FIXTURES AND DEVICES SHALL BE DETERMINED BY THE ARCHITECT AND/OR THE ARCHITECTURAL REFLECTED CEILING PLANS. CONFLICTS BETWEEN THE ENGINEER'S PLANS AND THE ARCHITECTS SHALL BE CLARIFIED PRIOR TO COMMENCING WORK. THE CONTRACTOR IS REQUIRED TO MAKE ANY ADJUSTMENTS TO AVOID INTERFERENCE WITH OTHER SYSTEMS.
10. UNLESS SPECIFICALLY CALLED OUT IN THE DESCRIPTION OR MODEL NUMBER, THE COLOR AND FINISH OF THE FIXTURE SHALL BE SELECTED FROM THE SPECIFIED MANUFACTURER'S STANDARD COLORS AND FINISHES. SUBMIT MANUFACTURER'S STANDARD COLOR CHART AND FINISH SCHEDULE WITH SHOP DRAWINGS FOR ARCHITECTURAL APPROVAL & DESIGNATION.
11. LIGHTING HAS BEEN DESIGNED TO SUBSTANTIALLY COMPLY WITH TITLE 24. DIVISION 9 REQUIREMENTS (TYPICAL).
12. ALL RECESSED DOWNLIGHTS SHALL BE EQUIPPED WITH THERMAL CUTOFF WHERE REQUIRED BY CODE.
13. ALL FIXTURES LOCATED IN MECHANICAL EQUIPMENT ROOMS SHALL BE MOUNTED TO CLEAR ALL MECHANICAL EQUIPMENT.
14. ALL LIGHTING FIXTURES OF ONE TYPE SHALL BE MANUFACTURED BY THE SAME MANUFACTURER.
15. CONTRACTOR SUBMITTALS SHALL INCLUDE STANDARD FIXTURE CUTS, COMPLETE LAMP DATA SUBMITTALS, AND PHOTOMETRIC REPORTS.
16. EACH BRANCH CIRCUIT HOMERUN SHALL HAVE NO MORE THAN THREE CIRCUITS. EACH BRANCH CIRCUIT HOMERUN SHALL HAVE A SEPARATE GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR.
17. FIXTURES SHALL HAVE APPROPRIATE UL LABEL, DAMP OR WET AS REQUIRED BY CODES AND ORDINANCES.
18. CONTRACTOR SHALL VERIFY FIXTURE VOLTAGES AND CEILING TRIM COMPATIBILITY PRIOR TO ORDERING FIXTURE.
19. ENSURE COMPATIBILITY OF ALL LIGHTING SYSTEM COMPONENTS SUCH AS DIMMING SYSTEMS. FIXTURES, LAMPS AND DIMMING SYSTEMS/INDIVIDUAL CONTROLS MUST BE FACTORY CERTIFIED COMPATIBLE FOR FULL RANGE OF DIMMING COMPATIBILITY.
20. CONTRACTOR SUBMITTALS SHALL INCLUDE STANDARD FIXTURE CUTS, COMPLETE LAMP DATA SUBMITTALS, AND PHOTOMETRIC REPORTS.
21. CONTRACTOR SHALL ROUTE ALL CONDUIT IN A NEAT AND ORGANIZED MANNER TO MAINTAIN AESTHETIC APPEAL OF THE CEILING.

SUBSTITUTION NOTES

1. ALL SUBSTITUTIONS MUST BE APPROVED BY THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO CONSIDERING SUBSTITUTIONS. THE FOLLOWING MUST BE PROVIDED (15) DAYS PRIOR TO BID TIME.
   - PHOTOMETRIC STUDIES UTILIZING IES STANDARD PHOTOMETRIC DATA AND SOFTWARE FOR THIS PROJECT USING PROPOSED SUBSTITUTION FIXTURES TO ENSURE DESIGN INTENT IS MET. LUMEN OUTPUT AND LIGHT LOSS FACTOR VALUES TO BE DICTATED BY PBS ELECTRICAL ENGINEERS FOR THIS STUDY.
   - WHEN APPLICABLE, PHOTOMETRIC STUDIES OF EMERGENCY LIGHTING.
2. APPLICATIONS FOR ALL REQUIRED AREAS IN THIS PROJECT UTILIZING PROPOSED SUBSTITUTIONS. BATTERY PACK LUMEN OUTPUT VALUES TO BE BASED ON EMERGENCY LIGHTING NOTES CONTAINED HEREWITH.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122306 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/27/2023

HMC Architects
3361004000
8546 CONCOURS STREET
ONTARIO, CA 91764
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ISSUE

Δ	DESCRIPTION	DATE

CONSULTANT

PBS ENGINEERS
2100 East Route 66, Suite 210
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T. 626.650.0350 F. 626.650.0352
www.pbsengineers.com Job no. 2022-011-00

REGISTERED PROFESSIONAL ENGINEER
E17249
EXP. 06-30-2024
ELECTRICAL
STATE OF CALIFORNIA

FACILITY:
EL MONTE HIGH SCHOOL
3048 TYLER AVE
EL MONTE, CA 91731

PROJECT:
EL MONTE HIGH SCHOOL TRACK AND FIELD
EXISTING TRACK AND FIELD REPLACEMENT

SHEET NAME:
LIGHTING FIXTURE SCHEDULES AND NOTES

CONSTRUCTION DOCUMENTS

FAC NO.: XXXXX	BLDG NO.: BLD-XXXXX
DATE 07.11.2023	CLIENT PROJ NO:

SHEET:

E0.04

P:\P-2022\2022-011-00 EMUHSD-El Monte HS Stadium Upgrade\10_BIM-CAD\WEP\E0.04.dwg 6/3/2022 8:40 AM Victor Rodriguez

PLEASE RECYCLE

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	EL MONTE HIGH SCHOOL TRACK AND FIELD	Report Page:	(Page 1 of 7)
Project Address:	3048 TYLER AVE	Date Prepared:	6/1/2022

A. GENERAL INFORMATION

01	Project Location (city)	EL MONTE	04	Total Illuminated Hardscape Area (ft²)	0
02	Climate Zone	9			
03	Outdoor Lighting Zone per Title 24 Part 1 §10.114 or as designated by Authority Having Jurisdiction (AHJ):				
☐	LZ-0: Very Low - Undeveloped Parkland	☒ LZ-2: Moderate - Rural Areas	☐	LZ-4: High - Must be reviewed by CA Energy Commission for Approval	
☐	LZ-1: Low - Developed Parkland	☐ LZ-3: Moderately High - Urban Areas			

B. PROJECT SCOPE

This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.7 or §141.0(b)2L for alterations.

My Project Consists of:

01		02			
☒	New Lighting System	Must Comply with Allowances from §140.7			
☐	Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)?	◯ Yes	◯ No	
03		04		05	
% of Existing Luminaires Being Altered[1]		Sum Total of Luminaires Being Added or Altered		Calculation Method	
☐ < 10%	☐ >= 10% and < 50%	☐ >= 50%			

Please proceed to Table F. Outdoor Lighting Fixture Schedule to define the project's luminaires.

[1] *FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.*

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CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
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Project Address:	3048 TYLER AVE	Date Prepared:	6/1/2022

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) §140.7 or §141.0(b)2L											Compliance Results		
01		02		03		04		05	OR	06	=	07	≥	08	09
General Hardscape Allowance §140.7(d)1 (See Table I)	+	Per Application §140.7(d)2 (See Table J)	+	Sales Frontage §140.7(d)2 (See Table K)	+	Ornamental §140.7(d)2 (See Table L)	+	Per Specific Area §140.7(d)2 (See Table M)		Existing Power Allowance §141.0(b)2L (See Table N)		Total Allowed (Watts)		Total Actual (Watts)	07 must be >= 08
0	+	---	+	---	+	---	+	400	OR	---	=	400	≥	400	COMPLIES
Cutoff Compliance (See Table G for Details)												N/A			
Controls Compliance (See Table H for Details)												COMPLIES			

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	EL MONTE HIGH SCHOOL TRACK AND FIELD	Report Page:	(Page 3 of 7)
Project Address:	3048 TYLER AVE	Date Prepared:	6/1/2022

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with §140.7 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included).

Designed Wattage:

01	02		03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description		Watts per luminaire[1, 2]	How is Wattage determined	Total number luminaires[2]	Luminaire Status[3]	Excluded per §140.7(a)	Design Watts	Cutoff Req. > 6,200 initial lumen output §130.2(b)[4]	Field Inspector	
										Pass	Fail
LG	LG	☐ Linear	25	Mfr. Spec	16	New	☐	400	NA: < 6200 lumens	☐	☐
							Total Design Watts:	400			

* NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
EX: Luminaire is lighting a statue; EXCEPTION 2 to §130.2(b)

[1] *FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c)*
[2] *For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.*
[3] *Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.*
[4] *Compliance with mandatory cutoff requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by §130.2(b)*

G. CUTOFF REQUIREMENTS (BUG)

This section does not apply to this project.

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	EL MONTE HIGH SCHOOL TRACK AND FIELD	Report Page:	(Page 4 of 7)
Project Address:	3048 TYLER AVE	Date Prepared:	6/1/2022

H. OUTDOOR LIGHTING CONTROLS

This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.
*When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.*

Mandatory Controls

01	02	03	04	05	
Area Description	Shut-Off §130.2(c)1	Auto-Schedule §130.2(c)2	Motion Sensor §130.2(c)3	Field Inspector	
				Pass	Fail
Building Facade	Photocontrol	Yes	Yes	☐	☐

* NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.
EX: Not permitted by health & safety to be turned off; EXCEPTION 1 to §130.2(c)

I. LIGHTING POWER ALLOWANCE (per §140.7)

This table includes areas using allowance calculations per §140.7. General Hardscape Allowance is per Table 140.7-A while "Use it or lose it" Allowances are per Table 140.7-B . Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.

	01				
	"Use it or lose it" Allowance (select all that apply) (select all that apply)				
☐ General Hardscape Allowance Table I (below)	☐ Per Application Table J	☐ Sales Frontage Table K	☐ Ornamental Table L	☒ Per Specific Area Table M	
Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (LZ 0, 1 & 4)					
Calculated General Hardscape Lighting Power Allowance per Table 140.7-A (LZ 2 & 3)					

J. LIGHTING ALLOWANCE: PER APPLICATION

This section does not apply to this project.

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	EL MONTE HIGH SCHOOL TRACK AND FIELD	Report Page:	(Page 5 of 7)
Project Address:	3048 TYLER AVE	Date Prepared:	6/1/2022

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This table includes areas using the wattage allowance per specific area from Table 140.7-B . More than one specific area allowance may be taken in a single project, if applicable. However, multiple specific area allowances may not be taken for the exact same area on the site.

01	02	03	04	05	06	07	08	09	10
		CALCULATED ALLOWANCE (Watts)			DESIGN WATTS				
Area Description	Specific Area Type per Table 140.7-B	Specific Area (ft²)[1]	Allowed Density (W/ft²)	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Design Watts	Additional Allowance (Watts)
Building Facade	BuildingFacade	4640	0.1	464	LG	25	16	400	400
							Total Design Watts for this Area:	400	
							Total Allowance (Watts) All Areas:		400

[1] *FOOTNOTES: See Table 140.7-B for rules for calculating the specific areas (ft²) for these additional lighting allowances.*
[2] *For luminaires indicated in Table F as linear, wattage in column 07 is W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 08 instead of number of luminaires.*

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCI/

Form/Title	Field Inspector	
	Pass	Fail
NRCI-LTO-01-E - Must be submitted for all buildings	☐	☐
NRCI-LTO-02-E- Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	☐	☐

STATE OF CALIFORNIA
Outdoor Lighting
NRCC-LTO-E — CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	EL MONTE HIGH SCHOOL TRACK AND FIELD	Report Page:	(Page 6 of 7)
Project Address:	3048 TYLER AVE	Date Prepared:	6/1/2022

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Form/Title	Systems/Spaces To Be Field Verified	Field Inspector	
		Pass	Fail
NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.	☐	☐	

STATE OF CALIFORNIA
Outdoor Lighting
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CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	EL MONTE HIGH SCHOOL TRACK AND FIELD	Report Page:	(Page 7 of 7)
Project Address:	3048 TYLER AVE	Date Prepared:	6/1/2022

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Darshan Patel	Documentation Author Signature: DARSHAN PATEL
Company: PBS Engineers	Signature Date:
Address: 2100 East Route 66, Suite 210	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Glendora CA 91740	Phone: 626-650-0350

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Kunal Shah	Responsible Designer Signature:
Company: PBS Engineers	Date Signed: 2022-06-01
Address: 2100 East Route 66, Suite 210	License: E17249
City/State/Zip: Glendora CA 91740	Phone: (626) 650-0350

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ONTARIO, CA 91764
909 989 9979 / www.hmcarchitects.com

ISSUE

Δ	DESCRIPTION	DATE

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PBS ENGINEERS
2100 East Route 66, Suite 210
Glendora, CA 91740
T. 626.650.0350 F. 626.650.0352
www.pbsengineers.com Job no. 2022-011-00

PROFESSIONAL ENGINEER — E17249 EXP. 06-30-2024 — ELECTRICAL — STATE OF CALIFORNIA

FACILITY:
EL MONTE HIGH SCHOOL
3048 TYLER AVE
EL MONTE, CA 91731

PROJECT:
EL MONTE HIGH SCHOOL TRACK AND FIELD
EXISTING TRACK AND FIELD REPLACEMENT

SHEET NAME:
TITLE-24 COMPLIANCE FORMS

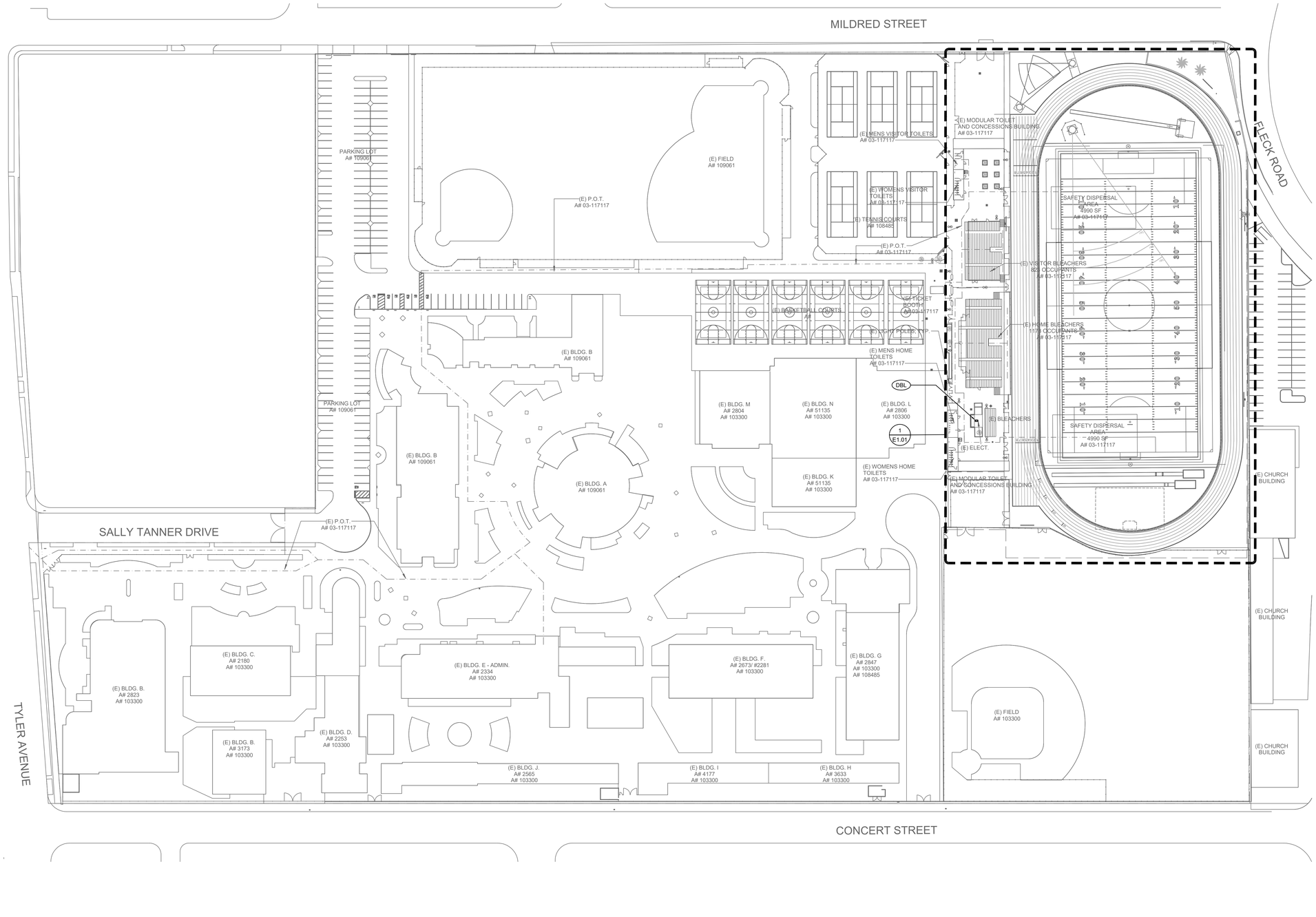
CONSTRUCTION DOCUMENTS

FAC NO.: XXXXX — BLDG NO.: BLD-XXXXX
DATE 07.11.2023 — CLIENT PROJ NO:
SHEET:

E0.05

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON FULL SIZE SHEETS ORIGINAL SCALE SIZE

REMODEL KEY NOTES	GENERAL NOTES
1 REFER TO ENLARGED PLAN DRAWING FOR SCOPE OF WORK RELATED TO SIGN LIGHTING AND CONNECTION TO COMMUNICATION SYSTEMS.	



ELECTRICAL SITE PLAN

SCALE: 1"=50'-0" | 1

PLEASE RECYCLE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122306 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/27/2023

HMC Architects
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ONTARIO, CA 91764
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ISSUE

Δ	DESCRIPTION	DATE

CONSULTANT

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2100 East Route 66, Suite 210
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T. 626.650.0350 F. 626.650.0352
www.pbsengineers.com Job no. 2022-011-00

REGISTERED PROFESSIONAL ENGINEER
E17249
EXP. 06-30-2024
ELECTRICAL
STATE OF CALIFORNIA

FACILITY:
EL MONTE HIGH SCHOOL
3048 TYLER AVE
EL MONTE, CA 91731

PROJECT:
EL MONTE HIGH SCHOOL TRACK AND FIELD
EXISTING TRACK AND FIELD REPLACEMENT

SHEET NAME:
ELECTRICAL SITE PLAN

CONSTRUCTION DOCUMENTS

FAC NO.: XXXXX | BLDG NO.: BLD-XXXXX
DATE 07.11.2023 | CLIENT PROJ NO:
SHEET:

E1.00

P:\P--2022\2022-011-00 EMUHSD--El Monte HS Stadium Upgrade\10_BIM--CAD\MEP\E1.00.dwg 6/3/2022 8:40 AM Victor Rodriguez

IF THIS LINE SHOWN ABOVE IS EXACTLY 1" LONG, DRAWING IS SCALED CORRECTLY FOR 22X36 ORIGINAL PAPER SIZE

GENERAL NOTES

1. ALL CONDUCTORS BOTH LOW AND LINE VOLTAGE FOR POWER AND SIGNAL SYSTEMS SHALL BE INSTALLED IN CODE APPROVED RACEWAY.
2. PROVIDE EQUIPMENT GREEN GROUND CONDUCTOR IN EACH RACEWAY.
3. THE CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL OUTLETS SHOWN ON THIS DRAWING WITH THE ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH-IN AND MAKING ANY ADJUSTMENTS REQUIRED TO AVOID INTERFERENCES WITH ANY OTHER DEVICES.
4. EACH MULTI-WIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH MEANS TO SIMULTANEOUSLY DISCONNECT ALL UNDER-GROUNDED CONDUCTORS WITH CEC 210.4(B) & (D).
5. ALL CONDUCTORS SHALL HAVE UNDERWRITER'S LABORATORIES, INC. (UL) LISTED, 600 VOLTS INSULATION FOR TYPE SPECIFIED BELOW OR ELSEWHERE IN THE SPECIFICATIONS, ALL CONDUCTORS SHALL BE COPPER.

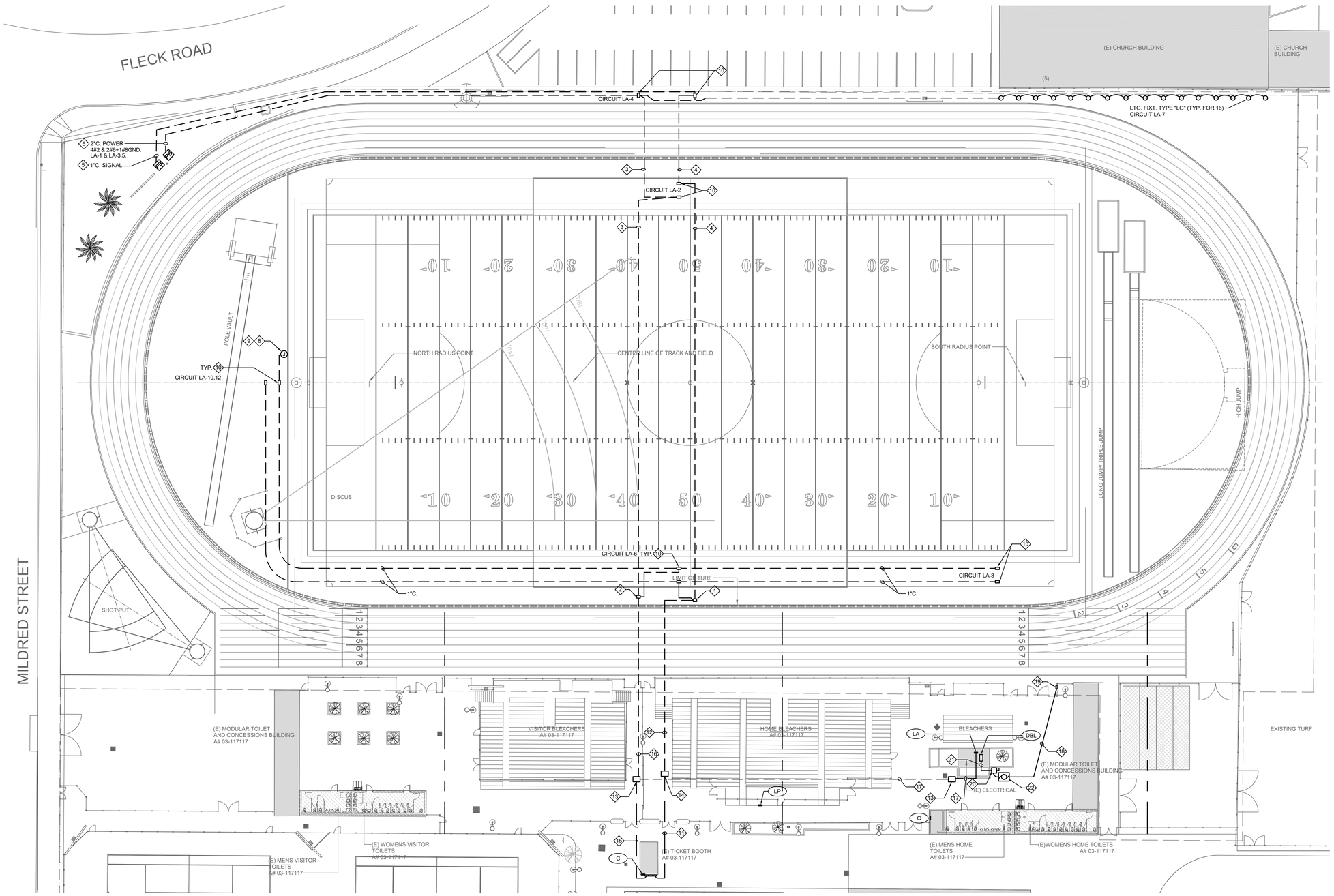
   * BRANCH CIRCUITS - LIGHTING AND POWER.

   a. #12 AWG AND SMALLER, SOLID WIRE TYPE THW OR THHN/THWN, THHW (THHN FOR DRY LOCATION ONLY).

   b. #10 AWG AND LARGER, STRANDED TYPE THW OR THHN/THHW.
6. COORDINATE DEMOLITION WORK WITH ALL RELATED DISCIPLINES INCLUDING ELECTRICAL AND PLUMBING.

KEY NOTES

1. EXISTING POWER SYSTEM CONCRETE PULLBOX
2. EXISTING SIGNAL SYSTEM CONCRETE PULLBOX
3. NEW (2)2" CONDUIT FOR POWER SYSTEM WIRING
4. NEW (2) 2" CONDUIT FOR SIGNAL SYSTEM CABLES
5. PROVIDE 24"X 24"X 24" DEEP PULL BOX AT EDGE OF FIELD AND TERMINATE (1) 2" CONDUIT FOR SCORE BOARD POWER
6. PROVIDE 18"X18"X 24" DEEP PULL BOX AT EDGE OF FIELD AND TERMINATE (1) 2" CONDUIT FOR SCOREBOARD AND FLAG POLE IN-GROUND LIGHTING
7. PROVIDE CONCRETE FOUNDATION FOR UNISTRUT SUPPORT OF NEW LIGHTING FIXTURE .
8. JUNCTION BOX FOR SCOREBOARD POWER.
9. PROVIDE NEMA 3R JUNCTION BOX WITH W.P. COVER. CONTRACTOR SHALL COORDINATE POWER REQUIREMENT WITH APPROVED SCOREBOARD SUBMITTAL. COORDINATE EXACT LOCATIONS IN FIELD.
10. PROVIDE OUTDOOR GROUND BOX EACH FOR POWER AND COMMUNICATION WITH (2) 20A, 1P DUPLEX RECEPTACLE AND COMMUNICATION (2) RJ45 DATA JACKS AND PA SYSTEM INPUT CABLING AS REQUIRED. COVER WITH TURF MATERIAL OR TRACK FINISH.
11. EXIST. (3) 1 1/2"C. PA, SEC. & FA SYSTEM (1) 3"C. TEL/DATA.
12. NEW SIGNAL SYSTEM CONDUIT (3) 1 1/2"C. PA, SEC & FA SYSTEM
13. EXISTING POWER SYSTEM PULL BOX PROVIDE NEW POWER SYSTEM WIRES.
14. EXISTING SIGNAL SYSTEM PULL BOX PROVIDE NEW COMMUNICATION CABLES.
15. EXISTING POWER SYSTEM CONDUIT AND WIRES.
16. NEW (2) 2" CONDUIT PROVIDE NEW 12#6 + 1#8 GND IN ONE AND IN OTHER PROVIDE 4#2 AND 4#6+1#8 GND.
17. NEW (2) 2" CONDUIT PROVIDE NEW 12#6 + 1#8 GND IN ONE AND IN OTHER PROVIDE 4#2 AND 4#6+1#8 GND. TO PANEL BOARD LA.
18. PROVIDE 1"CONDUIT AND WIRES PER MANUFACTURER FOR COACHES SWITCH.
19. COACHES SWITCH REFER TO LANDSCAPE DRAWING L1.01 FOR EXACT LOCATION.
20. PROVIDE 100A, 3P, 250V, W.P. DISCONNECT SWITCH IN NEMA 3R ENCLOSURE.
21. PROVIDE 1-1/2"C., 3#2+1#8 GND TO "DBL" FOR BOOSTER PUMP REFER TO ELECTRICAL SINGLE LINE DIAGRAM.
22. BOOSTER PUMP 15 HP REFER TO LANDSCAPE DRAWINGS FOR LOCATION AND EXACT REQUIREMENTS.



ELECTRICAL SITE PLAN

SCALE: 1"=20'-0"

1

PLEASE RECYCLE

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 03-122306 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 10/27/2023

HMC Architects
3361004000
8546 CONCOURS STREET
ONTARIO, CA 91764
909 989 9979 / www.hmcarchitects.com

ISSUE

Δ	DESCRIPTION	DATE

CONSULTANT

PBS ENGINEERS
2100 East Route 66, Suite 210
Glendora, CA 91740
T. 626.650.0350 F. 626.650.0352
www.pbsengineers.com Job no. 2022-011-00

REGISTERED PROFESSIONAL ENGINEER
E17249
EXP. 06-30-2024
ELECTRICAL
STATE OF CALIFORNIA

FACILITY:
EL MONTE HIGH SCHOOL
3048 TYLER AVE
EL MONTE, CA 91731

PROJECT:
EL MONTE HIGH SCHOOL TRACK AND FIELD
EXISTING TRACK AND FIELD REPLACEMENT

SHEET NAME:
ELECTRICAL TRACK AND FIELD PLAN

CONSTRUCTION DOCUMENTS

FAC NO.: XXXXX BLDG NO.: BLD-XXXXX

DATE 07.11.2023 CLIENT PROJ NO:

SHEET:

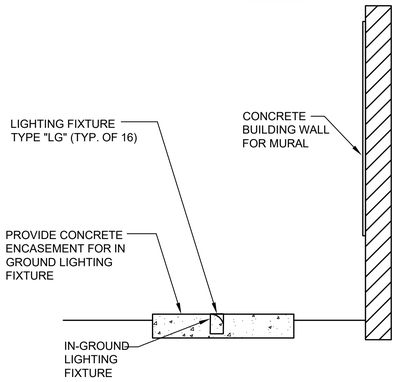
E1.01

P:\P-2022\2022-011-00 EMUHSD-El Monte HS Stadium Upgrade\10_BIM-CAD\MEP\E1.01.dwg 6/3/2022 8:40 AM Victor Rodriguez

LIGHTING FIXTURE CONCRETE BASED MOUNTING PAD

NOT TO SCALE | 7

SIDE VIEW



NOT USED

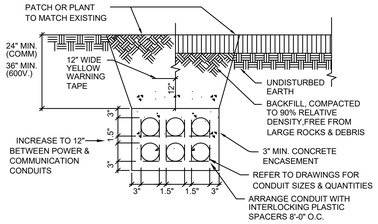
NOT TO SCALE | 8

NOT USED

NOT TO SCALE | 9

UNDERGROUND MULTI-CONDUIT PLACEMENT DETAIL

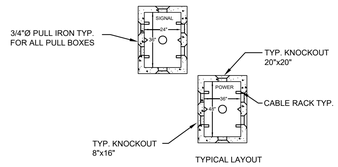
NOT TO SCALE | 4



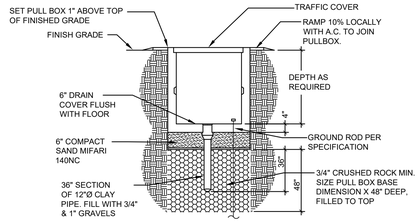
UNDERGROUND PULL BOX INSTALLATION

NOT TO SCALE | 5

1. IN THE PRECAST CONCRETE PULL BOXES FURNISH AND INSTALL CABLE RACKS ON WALLS INDICATED. EACH RACK SHALL BE EQUIPPED WITH THREE PORCELAIN CABLE HOLDERS ON A VERTICAL STEEL MOUNTING BAR. BOLT HOLES SHALL BE PRE-CAST PULL BOXES QUICKSET UTILITY VAULT SERIES TPB-1001 OR EQUAL WITH STAINLESS STEEL FLAT HEAD SCREWS AND SELF CLEANING HOLES. LOOP ALL CABLES AROUND THE LONGEST LENGTH IN THE PULL BOX.



TYPICAL LAYOUT

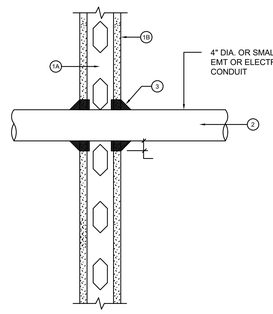


NOT USED

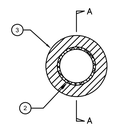
NOT TO SCALE | 6

CONDUIT PENTRATION THRU EXTERIOR WALL DETAIL

NOT TO SCALE | 1



SECTION A-A



FRONT VIEW

KEY NOTES:

1. WALL CONSTRUCTION:
   - 1A. EXISTING STEEL STUD WALL.
   - 1B. EXISTING 5/8" TYPE X GYPSUM BOARD AND WALL SURFACE.
2. CONDUIT SIZE PER DRAWINGS
3. U.L. APPROVED SILICON SEALANT. APPLY TO INTERFACE WITH WALL SURFACE. SUBMIT SEALANT TYPE FOR REVIEW AND APPROVAL PRIOR TO APPLICATION.

CONDUIT PENETRATION THRU 2-HOUR CONCRETE FLOOR/WALL DETAIL

NOT TO SCALE | 2

1. Floor or Wall Assembly -- Min 4-1/2 in. thick reinforced lightweight or normal weight (100-150 pcf) concrete. Wall may also be constructed of any UL Classified Concrete Blocks *. Max diam of opening is 12 in.

   See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.

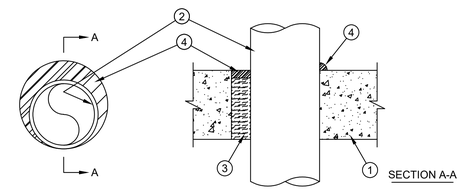
2. Through Penetrants -- One metallic pipe, conduit or tubing to be installed within the firestop system. Pipe, conduit or tubing to be rigidly supported on both sides of floor or wall assembly. The annular space shall be 0 in. (point contact) to max 1-1/4 in. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. Steel Pipe -- Nom 10 in. diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe -- Nom 10 in. diam (or smaller) cast or ductile iron pipe.
   C. Conduit -- Nom 4 in. diam (or smaller) steel electrical metallic tubing or steel conduit.
   D. Copper Tubing -- Nom 4 in. diam (or smaller) Type L (or heavier) copper tubing.
   E. Copper Pipe -- Nom 4 in. diam (or smaller) Regular (or heavier) copper pipe.

3. Packing Material -- Min 3 in. thickness of min 4 pcf mineral wool batt insulation for nom 4 in. diam (and smaller) pipes, conduits or tubings and a min 4 in. thickness of min 4 pcf mineral wool batt insulation for pipe greater than nom 4 in. diam, firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor or from both surfaces of wall as required to accommodate the required thickness of fill material.

4. Fill, Void or Cavity Material* -- Sealant -- Min 1/2 in. thickness of fill material applied within the annulus, flush with the top surface of floor or both surfaces of wall. At the point of contact location between pipe and concrete, a min 1/2 in. diam bead of fill material shall be applied at the concrete/pipe interface on the top surface of floor and on both surfaces of wall. W Rating applies only when CP601S or CP604 sealant is used.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC -- CP601S, CP604, CP606 or FS-ONE Sealant

*Bearing the UL Classification Mark

System No. C-AJ-1149
F Rating -- 2 Hr
T Rating -- 0 Hr
L Rating At Ambient -- Less Than 1 CFM/sq ft
L Rating At 400 F -- 4 CFM/sq ft
W Rating -- Class I (See Item 4)



CONDUIT PENETRATION THRU 1-HOUR CONCRETE FLOOR/WALL DETAIL

NOT TO SCALE | 3

1. Wall Assembly — The 1 or 2 hr fire rated wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features.

   A. Studs — Wall framing shall consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.
   B. Gypsum Board* — Nom 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the Fire Resistance Directory. Max diam of opening is 5-1/2 in. The hourly F and T Ratings of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.

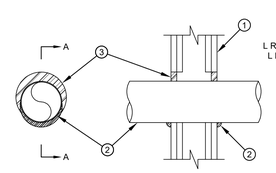
2. Through Penetrant — One metallic tubing or conduit installed concentrically or eccentrically within the firestop system. Tube or conduit to be rigidly supported on both sides of wall assembly. The annular space between the tube or conduit and periphery of the steel sleeve shall be min 0 in. (point contact) to max 1 in. The following types and sizes of metallic tube or conduit may be used:

   A. Conduit — Nom 4 in. diam (or smaller) steel electrical metallic tubing or steel conduit.

3. Fill Void or Cavity Material* — Putty — Min 5/8 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. At point contact location between penetrant and wall, a 1/4 in. crown of fill material shall be applied at the conduit/wall interface on both sides of the assembly, lapping 1/4 in. on the conduit and 1/4 in. beyond the periphery of the opening.
   HILTI INC — CP618 Putty Stick

*Bearing the UL Classification Mark

System No. W-L-1175
F Ratings - 1 and 2 Hr (See Item 1)
T Rating - 0 Hr
L Rating at Ambient - Less Than 1 CFM/sq ft
L Rating at 400 F - Less Than 1 CFM/sq ft



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APP: 03-122306 INC:
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HMC Architects
3361004000
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ISSUE

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CONSULTANT

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PROFESSIONAL ENGINEER — ELECTRICAL — E17249 — EXP. 06-30-2024 — STATE OF CALIFORNIA

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3048 TYLER AVE
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PROJECT:
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FAC NO.: XXXXX | BLDG NO.: BLD-XXXXX
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SHEET:

E2.00