IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

MC CLATCHY HIGH SCHOOL

3066 FREEPORT BLVD,
SACRAMENTO, CA 95818

MCCLATCHY HIGH SCHOOL ATHLETIC FIELD RENOVATION

DSA SUBMITTAL BID SET (NOT DSA APPROVED) - DECEMBER 7, 2023

ARCHITECTURAL SYMBOLS

DETAIL INDICATOR - REFERENCE & DETAIL INDICATOR - ITEM

DETAIL INDICATOR - SECTION & DETAIL INDICATOR - SECTION ITEM

SECTION INDICATOR - PARTIAL BUILDING/WALL & DETAIL INDICATOR - AREA

SECTION INDICATOR - BUILDING

ELEVATION INDICATOR - EXTERIOR

ELEVATION INDICATOR - INTERIOR, SINGLE & MULTIPLE VIEW

MATCH LINE INDICATOR

REFERENCE GRID WITH REFERENCE GRID LINES

REVISION INDICATOR & REVISION CLOUD

ROOM IDENTIFIER WITH ROOM NAME & NUMBER

ELEVATION INDICATOR - LEVEL & SPOT

WINDOW OR LOUVER IDENTIFIER

KEYNOTE INDICATOR

PLAN NORTH & TRUE NORTH INDICATOR

LIST OF ARCHITECTURAL ABBREVIATIONS

	SEE UNITED STATES NATIONAL CAD STANDARD FOR ANY ABBREVIATIONS NOT LISTED BELOW.
&	AND
@	AT
(E)	EXISTING
'	FOOT, FEET
"	INCH(ES)
#	NUMBER
ALUM	ALUMINUM
ARCH	ARCHITECTURAL
A/C UNIT	AIR CONDITIONING UNIT
A/E	ARCHITECT / ENGINEER
AB	ANCHOR BOLT
AC	ASPHALTIC CONCRETE
ACC	ACCESSIBLE
ACS DR	ACCESS DOOR
ACS PNL	ACCESS PANEL
ACST	ACOUSTIC
AD	AREA DRAIN
ADC	AUTOMATIC DOOR CLOSER
ADO	AUTOMATIC DOOR OPERATOR
ADDL	ADDITIONAL
ADJ SHV	ADJUSTABLE SHELVING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AGGR	AGGREGATE
AHU	AIR HANDLING UNIT
ASSY	ASSEMBLY
BD	BOARD
BKG	BACKING
BLDG	BUILDING
BM	BEAM
BM	BENCHMARK
BOT	BOTTOM
BTWN	BETWEEN
BUR	BUILT-UP ROOFING
BW	BOTH WAYS
C	CHANNEL
CAB	CABINET
CB	CATCH BASIN
CBC	CALIFORNIA BUILDING CODE
CEM	CEMENT
CEM PLAS	CEM PLASTER
CFLG	COUNTERFLASHING
CFMF	COLD-FORMED METAL FRAMING
CG	CORNER GUARD
CI	CAST IRON
CJ	CONSTRUCTION JOINT / CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CNTR	COUNTER
CO	CLEANOUT
COL	COLUMN
CONC	CONCRETE
CONSTR	CONSTRUCTION
CONT	CONTINUE / CONTINUOUS
COTG	CLEANOUT TO GRADE
CP	CONTROL PANEL
CPT	CARPET
CRS	COLD ROLLED STEEL
CSK	COUNTER SUNK
CSWK	CASEWORK
CT	CERAMIC TILE
CTR	CENTER
DBL	DOUBLE
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DHM	DETENTION HOLLOW METAL
DIA	DIAMETER
DIM	DIMENSION
DS	DOWNSPOUT
DSP	DRY STANDPIPE
DWG	DRAWING
DWR	DRAWER
EA	EACH
EGSB	EXTERIOR GYPSUM SHEATHING BOARD
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC / ELECTRICAL
ELEV	ELEVATOR
EMER	EMERGENCY
ENCL	ENCLOSURE
EPB	ELECTRICAL PANEL BOARD
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EXH	EXHAUST
EXST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FA	FIRE ALARM
FB	FLAT BAR
FD	FLOOR DRAIN
FDTN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FIN	FINISH
FLG	FLOORING
FLL	FLOW LINE
FLR	FLOOR
FOC	FACE OF CONCRETE/CURB
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FOW	FACE OF WALL
FP	FIREPROOF
FRP	FIBERGLASS REINFORCED PLASTIC
FT	FEET / FOOT
FTG	FOOTING
FURG	FURRING
FUT	FUTURE
G	GROUND; NATURAL GAS
GA	GAGE
GALV	GALVANIZED
GB	GRAB BAR
GI	GALVANIZED IRON
GLU LAM	GLUED LAMINATED WOOD
GYP	GYPSUM
HB	HOSE BIB
HC	HOLLOW CORE
HDBD	HARDBOARD
HDW	HARDWARE
HDWD	HARDWOOD
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HR	HOUR
HT	HEIGHT
ID	INSIDE DIAMETER
INSUL	INSULATION
INT	INTERIOR
JAN	JANITOR
KIT	KITCHEN
L	ANGLE
LAB	LABORATORY
LAV	LAVATORY
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MEMB	MEMBRANE
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MR	MOISTURE RESISTANT
MTD	MOUNTED
MTL	METAL
MULL	MULLION
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
O/	OVER
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF/CI	OWNER FURNISHED / CONTRACTOR INSTALLED
OFF	OFFICE
OGL	OBSCURE GLASS
OPH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
PAF	POWER ACTUATED FASTENER
PL	PROPERTY LINE; PLATE
PLAM	PLASTIC LAMINATE
PLB	PLUMB
PLBG	PLUMBING
PLYWD	PLYWOOD
PNL	PANEL
PROP	PROPERTY
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PAINT; PAINT
PTN	PARTITION
PV	PHOTOVOLTAIC
QT	QUARRY TILE
R	RADIUS; RISER
RD	ROOF DRAIN
REBAR	REINFORCING STEEL BAR
REF	REFERENCE
REF	REFRIGERATOR
REINF	REINFORCE / REINFORCING
REQD	REQUIRED
RESIL	RESILIENT
RM	ROOM
RO	ROUGH OPENING
RWD	REDWOOD
RWL	RAIN WATER LEADER
SAD	SEE ARCHITECTURAL DRAWINGS
SATC	SUSPENDED ACOUSTICAL TILE CEILING
SB	SPLASH BLOCK
SC	SOLID CORE
SCHED	SCHEDULE
SD	STORM DRAIN
SDST	SELF DRIVING, SELF TAPPING
SHT	SHEET
SHTHG	SHEATHING
SHV	SHELVING
SIM	SIMILAR
SLNT	SEALANT
SM	SHEET METAL
SPEC	SPECIFICATION
SQ	SQUARE
SS	SANITARY SEWER; SERVICE SINK
SST	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
SUSP CLG	SUSPENDED CEILING
SV	SHEET VINYL
SYMM	SYMMETRICAL
SYS	SYSTEM
T	TREAD
T&G	TONGUE & GROOVE
TEL	TELEPHONE
THK	THICKNESS
TMH	TOP OF MANHOLE
TMPD	TEMPERED
TO	TOP OF
TOC	TOP OF CURB
TOF	TOP OF FRAME
TOJ	TOP OF JOIST
TOM	TOP OF MASONRY
TOP	TOP OF PARAPET
TOPO	TOPOGRAPHY
TOS	TOP OF STEEL
TOW	TOP OF WALL
TV	TELEVISION
TYP	TYPICAL
UC	UNDER COUNTER/CABINET
UNO	UNLESS NOTED OTHERWISE
UON	UNLESS OTHERWISE NOTED
UR	URINAL
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VWC	VINYL WALL COVERING
VWF	VINYL WALL FABRIC
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WD	WOOD
WH	WATER HEATER
WO	WHERE OCCURS
WP	WORKING POINT
WPM	WATERPROOF MEMBRANE
WSCT	WAINSCOT
WT	WEIGHT
WTR	WATER
WWR	WELDED WIRE REINFORCEMENT

PROJECT DIRECTORY

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PROJECT DATA

Q1

- DEMOLITION OF EXISTING VARSITY BASEBALL AND SOFTBALL FIELDS. WORK TO INCLUDE BUT NOT LIMITED TO DEMOLITION OF IRRIGATION, LANDSCAPING, EXISTING DUGOUT STRUCTURES AND FENCING.
- SITE WORK SCOPE OF WORK SHALL INCLUDE ROUGH GRADING, INSTALLATION OF IRRIGATION, UNDERGROUND UTILITY LINES INCLUDING DOMESTIC WATER, ELECTRICAL, AND LOW VOLTAGE CONDUIT.
- CONSTRUCTION OF NEW VARSITY BASEBALL FIELD & VARSITY SOFTBALL FIELD, INCLUDING FIELDS, BACKSTOP, DUGOUTS, BULLPENS, & BATTING CAGES.
- INSTALLATION OF (3) 5 ROW BLEACHERS AT VARSITY BASEBALL AND SOFTBALL FIELDS.
- SITE WORK RELATED TO ALL PAVING AREAS ALONG ACCESSIBLE PATH OF TRAVEL.
- NEW PC-SHADE STRUCTURES AT EA EXISTING AND NEW BATTING CAGES
- NEW PC-MODULAR RESTROOMS AT EA FIELD
- NEW PC-SCOREBOARDS AT EA FIELD

ALTERNATES

ADD ALTERNATE#1: (E) TENNIS COURT FENCE POLES TO BE PAINTED AND CHAIN-LINK FABRIC TO BE REPLACED WITH VINYL COATED CHAIN LINK FABRIC, RESURFACE EXISTING COURTS, REPLACE (E) TENNIS EQUIPMENT, SEE LANDSCAPE AND CIVIL DWGS
BASE BID: (E) TENNIS COURTS TO REMAIN AS IS

ADD ALTERNATE #2: GRADING, REPLACE SOD AND IRRIGATION FOR JV FIELDS, SEE LANDSCAPE AND CIVIL DWGS
BASE BID: (E) JV FIELD TO REMAIN AS IS

ADD ALTERNATE #3: PROVIDE TENNIS BALL WALL ASSEMBLY IN ITS ENTIRETY
BASE BID: NO BALL WALL, PROVIDE LANDSCAPE

DEFERRED SUBMITTALS

NONE

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES ETC. PRIOR TO CONSTRUCTION.
2. CONTRACTOR SHALL NOTIFY ARCHITECT WHERE CONFLICT OCCURS ON ANY OF THE CONTRACT DRAWINGS OR DOCUMENTS. CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE BUILDING THAT IS IN CONFLICT UNTIL CONFLICT IS RESOLVED WITH THE AFFECTED PARTIES.
3. WHERE REQUIRED, ROOM OCCUPANCY CAPACITIES SHALL BE POSTED WITH THE REQUIREMENTS OF CALIFORNIA STATE FIRE MARSHAL & CBC 1004.9.
4. SPECIAL REQUIREMENTS:
   -ASSUMED PROPERTY LINES & FIRE SEPARATION DISTANCE PER SHEET GL102
   -ACCESSIBLE PATH OF TRAVEL PER SHEET GA101
   -EMERGENCY VEHICLE ROAD ACCESS PER GL102
   -FOR PARKING REQUIREMENTS SEE SHEET GA101
5. CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE CODES AND REGULATIONS, INCLUDING BUT NOT LIMITED TO:
   TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHALL REGULATIONS
   TITLE 24 CCR, PART 1 - 2022 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE
   TITLE 24 CCR, PART 2 - 2022 CALIFORNIA BUILDING CODE, VOL.1 & 2 (CBC)
   TITLE 24 CCR, PART 3 - 2022 CALIFORNIA ELECTRICAL CODE (CEC)
   TITLE 24 CCR, PART 4 - 2022 CALIFORNIA MECHANICAL CODE (CMC)
   TITLE 24 CCR, PART 5 - 2022 CALIFORNIA PLUMBING CODE (CPC)
   TITLE 24 CCR, PART 6 - 2022 CALIFORNIA ENERGY CODE
   TITLE 24 CCR, PART 9 - 2022 CALIFORNIA FIRE CODE (CFC)
   TITLE 24 CCR, PART 11 - 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
   TITLE 24 CCR, PART 12 - 2022 CALIFORNIA REFERENCED STANDARDS
   2022 NFPA 13, INSTALLATION OF SPRINKLER SYSTEMS (CA AMENDED)
   2019 NFPA 14, INSTALLATION OF STANDPIPE AND HOSE SYSTEMS
   2021 NFPA 17, DRY CHEMICAL EXTINGUISHING SYSTEMS
   2021 NFPA 17A, WET CHEMICAL EXTINGUISHING SYSTEMS
   2022 NFPA 20, INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION
   2018 NFPA 22, WATER TANKS FOR PRIVATE FIRE PROTECTION
   2019 NFPA 24, INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES
   2013 NFPA 25, INSPECTION, TESTING, MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS (CA AMENDED)
   2022 NFPA 72, NATIONAL FIRE ALARM CODE (CA AMENDED)
   2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
6. CHANGES TO THE APPROVED DRAWINGS OR SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENTS (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY THE SECTION 4-338 OF CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART I; (CAC 4-338) SUBSTITUTIONS OF PRODUCTS OR PROCESSES WHICH AFFECT STRUCTURAL SAFETY, FIRE AND LIFE-SAFETY, OR ACCESSIBILITY SHALL BE SUBMITTED AS AN ADDDENDUM OR CONSTRUCTION CHANGE DOCUMENT TO DSA FOR REVIEW AND APPROVAL.
7. A CLASS 1 or 2 PROJECT INSPECTOR EMPLOYED BY THE DISTRICT AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.
8. CONSTRUCTION AND DEMOLITION SHALL CONFORM TO 2022 CFC, CHAPTER 33.
9. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
10. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE 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)
11. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
12. THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.
13. LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).
14. ENVELOPE AND PROCESS EQUIPMENT ACCEPTANCE TESTS SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR, ENGINEER/ARCHITECT OF RECORD OR THE OWNER'S AGENT. A LISTING OF CERTIFIED ATT CAN BE FOUND AT: HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN-CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE.
15. THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.
16. PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.
17. LIONAKIS WILL NOT PROVIDE ANY INFORMATION CONCERNING HAZARDOUS MATERIAL. CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR HAZARDOUS MATERIAL SCOPE AND REQUIREMENTS.

SHEET IDENTIFICATION LEGEND

DISCIPLINE DESIGNATORS - LEVEL 1

- G GENERAL
- H HAZARDOUS MATERIALS
- V SURVEY/MAPPING
- B GEOTECHNICAL
- C CIVIL
- L LANDSCAPE
- S STRUCTURAL
- A ARCHITECTURAL
- I INTERIORS
- Q EQUIPMENT
- F FIRE PROTECTION
- P PLUMBING
- D PROCESS
- M MECHANICAL
- E ELECTRICAL
- W DISTRIBUTED ENERGY
- T TELECOMMUNICATIONS
- R RESOURCE
- X OTHER DISCIPLINES
- Z CONTRACTOR/SHOP DRAWINGS
- O OPERATIONS

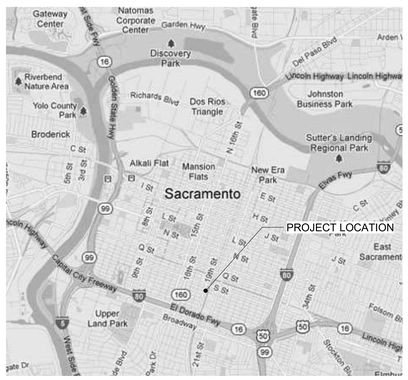
SHEET TYPE DESIGNATORS

- 0 - GENERAL
- 1 - PLANS
- 2 - ELEVATIONS
- 3 - SECTIONS
- 4 - LARGE SCALE VIEWS
- 5 - DETAILS
- 6 - SCHEDULES & DIAGRAMS
- 7 - USER DEFINED
- 8 - USER DEFINED
- 9 - 3D REPRESENTATIONS

- BUILDING IDENTIFIER - WHERE OCCURS
- DISCIPLINE DESIGNATOR - LEVEL 1
- DISCIPLINE DESIGNATOR - LEVEL 2 REPLACE DASH WHERE OCCURS
- SHEET TYPE DESIGNATOR
- SHEET TYPE SUBSET DESIGNATOR
- LEVEL/SEQUENCE DESIGNATOR
- AREA IDENTIFIER - WHERE OCCURS
- UNIQUE PORTION IDENTIFIER - WHERE OCCURS

C.A-123AB

LOCATION MAP



VICINITY MAP

STATEMENT OF GENERAL CONFORMANCE

DSA APPLICATION NO. 02-121610 FILE NO. 34-H7

THE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS IN THE SHEET INDEX AND SPECIFICATIONS HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND/OR AUTHORIZED TO PREPARE SUCH DRAWINGS IN THIS STATE. THESE DOCUMENTS HAVE BEEN EXAMINED BY ME FOR THE DESIGN INTENT AND APPEAR TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND PROJECT SPECIFICATIONS PREPARED BY ME AND COORDINATION WITH MY PLANS AND SPECIFICATIONS 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 FIND THAT: ☒ ALL DRAWINGS OR SHEETS LISTED ON THE COVER OR INDEX SHEET ☐ THIS DRAWING OR PAGE

☒ IS/ARE IN GENERAL CONFORMANCE WITH PROJECT PLANS AND
☒ HAS/HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS

SIGNATURE DATE

ARCHITECT OR ENGINEER DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE

BRIAN BELL
PRINTED NAME

C28712 LICENSE NUMBER
01/31/2025 EXPIRATION DATE

☐ IS/ARE IN GENERAL CONFORMANCE WITH PROJECT PLANS AND
☐ HAS/HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS

SIGNATURE DATE

ARCHITECT OR ENGINEER DELEGATED TO BE RESPONSIBLE FOR THIS PORTION OF THE WORK

PRINTED NAME

LICENSE NUMBER EXPIRATION DATE

LIONÄKIS
2025 Nineteenth Street
Sacramento CA 95818
P 916.558.1900
www.lionakis.com
CONSULTANT

SEAL

PROJECT
MCCLATCHY HIGH SCHOOL ATHLETIC FIELD RENOVATION

3066 FREEPORT BLVD,
SACRAMENTO, CA 95818

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

425 1ST AVE, SACRAMENTO, CA 95818.

ISSUED

MARK	DATE	DESCRIPTION
	8/17/2023	DSA SUBMITTAL
	12/7/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

LIONAKIS PROJECT NO:	023040
DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	
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TITLE
COVER SHEET

SHEET
G-001

BIM 360://023040 SCUSD McClatchy HS Fields/023040_ARCHSITE_R20_CENTRAL.rvt

12/8/2023 8:04:29 AM

SHEET INDEX

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CONSULTANT

SEAL

LICENSED ARCHITECT
BRIAN BELL
C28712
REN 01-31-25
STATE OF CALIFORNIA

PROJECT
MCCLATCHY HIGH SCHOOL
ATHLETIC FIELD RENOVATION

3066 FREEPORT BLVD,
SACRAMENTO, CA 95818

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

425 1ST AVE, SACRAMENTO, CA 95818.

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LIONAKIS PROJECT NO:	023040
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CLIENT PROJECT NO:	
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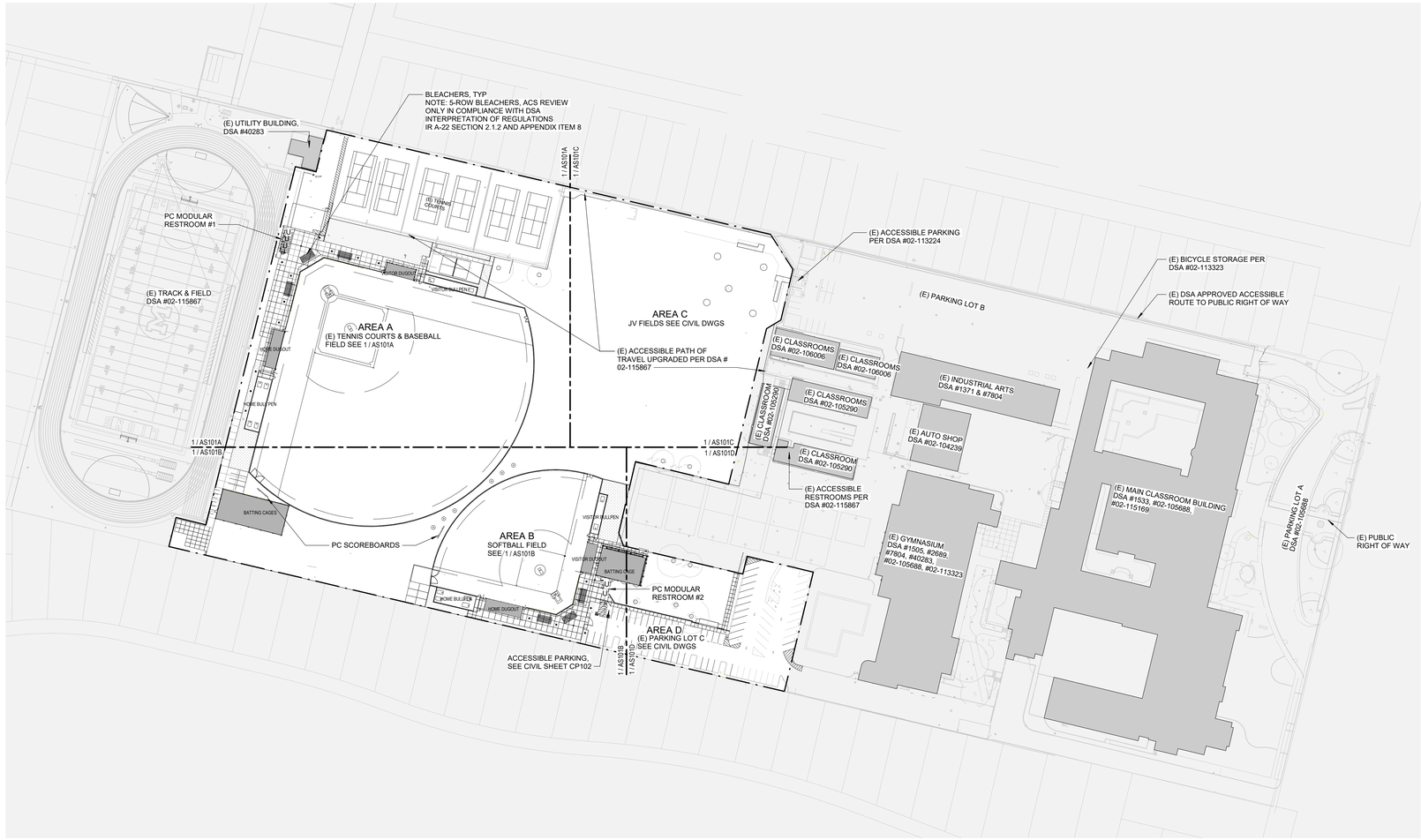
TITLE
SHEET INDEX

SHEET
G-002



1 SITE PLAN - ACCESSIBILITY SITE PLAN
SCALE 1" = 80'-0"

NORTH

GENERAL NOTES

1. ACCESSIBLE ROUTE COMPONENTS INCLUDE BUT ARE NOT LIMITED TO

- AT LEAST 48" IN WIDTH; OR AS APPROVED BY CODE.
- WITHOUT ABRUPT LEVEL CHANGES EXCEEDING ½" IF BEVELED AT 1:2 MAXIMUM SLOPE, OR VERTICAL LEVEL CHANGES EXCEEDING ¼";
- WITH A FIRM, STABLE, AND SLIP RESISTANT WALKING SURFACE;
- WITH A RUNNING SLOPE OF 1:20 OR LESS;
- WITH RUNNING SLOPE OF CODE COMPLIANT RAMPS, NOT TO EXCEED 8.33% (1:12), (RAMPS COMPLY WITH 11B-405);
- WITH REQUIRED LANDINGS AND LEVEL AREAS WITH A SLOPE OF 1:48 OR LESS;
- WITH A CROSS SLOPE OF 1:48 OR LESS;
- WITH OPENINGS IN DRAINS AND GRATINGS NOT TO EXCEED ½" IN PREDOMINANT DIRECTION OF TRAVEL;
- IS FREE OF OVERHEAD OBSTRUCTIONS WITHIN 80" ABOVE THE WALKING SURFACE; AND
- IS FREE OF OBJECTS WHICH PROTRUDE MORE THAN 4" BETWEEN THE HEIGHTS OF 27" AND 80" ABOVE THE WALKING SURFACE.
- ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL.
- ALL GATES ALONG THE ACCESSIBLE PATH OF TRAVEL MUST MEET THE CLEARANCE REQUIREMENTS OF 10/G-501, AND MUST HAVE PANIC BARS FOR OCCUPANT LOADS ABOVE 49 OCCUPANTS.

LEGENDS

AREA OF WORK: SHOWN FOR REFERENCE ONLY - REFER TO ALL OTHER CONSTRUCTION DOCUMENTS FOR FULL SCOPE OF WORK NOT SHOWN HERE

EXISTING STRUCTURE WITH NO SCOPE OF WORK

STRUCTURE UNDER THE SCOPE OF WORK

B: BOYS RESTROOM
G: GIRLS RESTROOM
U: UNISEX RESTROOM
SM: MENS STAFF RESTROOM
SW: WOMENS STAFF RESTROOM

RESTROOM LOCATION

ACCESSIBLE RESTROOM

ACCESSIBILITY PATH OF TRAVEL

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.

EXISTING DSA APPROVED ACCESSIBILITY PATH OF TRAVEL

PROPERTY LINE

*DF ACCESSIBLE HI-LO DRINKING FOUNTAIN

PARKING COUNT

	(E) ACCESSIBLE STALLS	(E) VAN ACCESSIBLE STALLS	(N) ACCESSIBLE STALLS	REQUIRED ACCESSIBLE STALLS	TOTAL (E) STALLS
(E) LOT A	2	1	0		23
(E) LOT B	6	3	0		175
(E) LOT C	1	1	2	4	79
				TOTAL	277

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SEAL
LICENSED ARCHITECT BRIAN BELL C28712 REN 01-31-25 STATE OF CALIFORNIA

PROJECT
MCCLATCHY HIGH SCHOOL ATHLETIC FIELD RENOVATION

3066 FREEPORT BLVD,
SACRAMENTO, CA 95818

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

425 1ST AVE, SACRAMENTO, CA 95818.

ISSUED

MARK	DATE	DESCRIPTION
	8/17/2023	DSA SUBMITTAL
	12/7/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

LIONAKIS PROJECT NO:	023040
DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	
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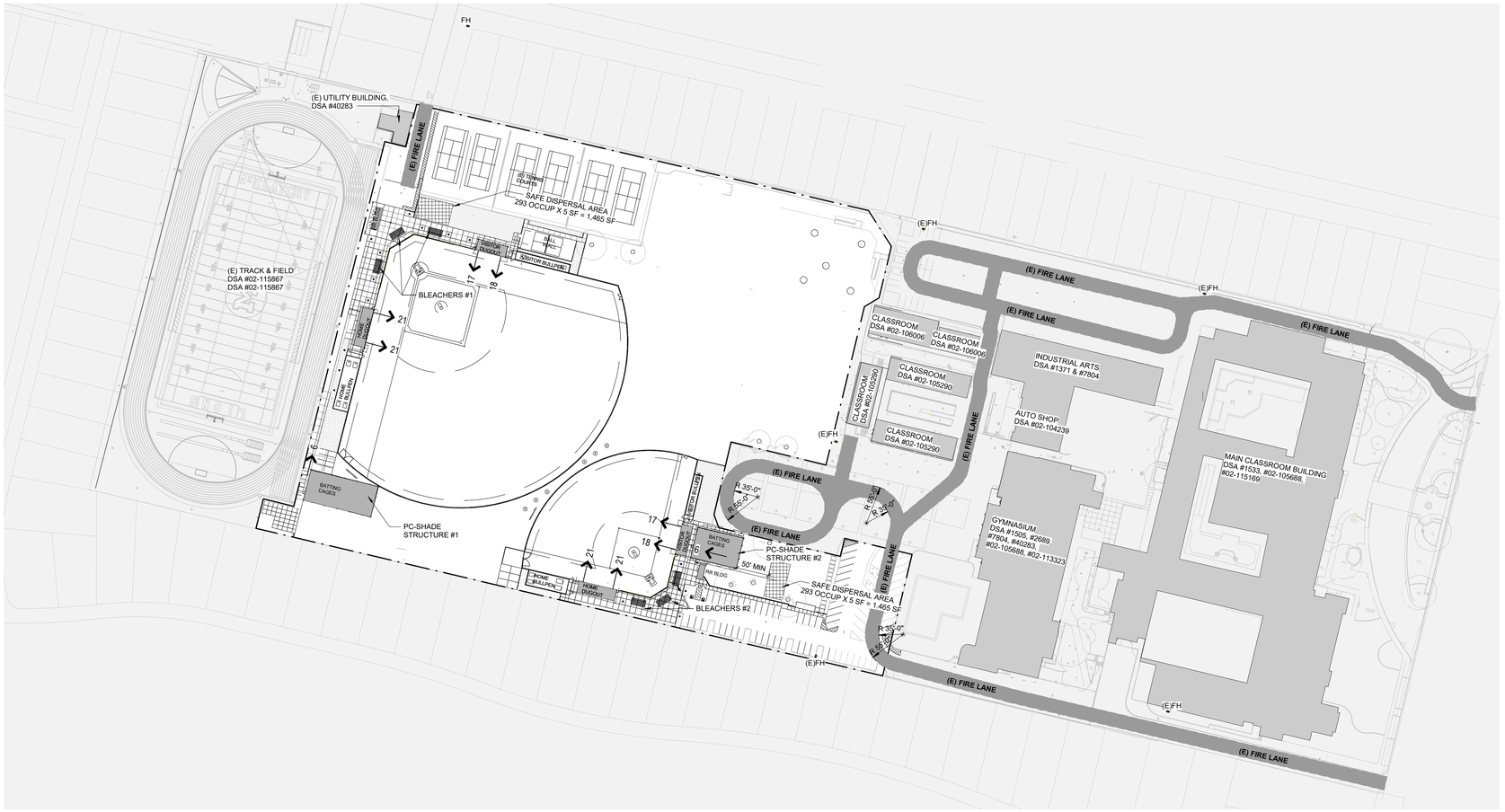
TITLE
ACCESSIBILITY SITE PLAN

SHEET
GA101



1 SITE PLAN - CODE ANALYSIS & FIRE TRUCK ACCESS PLAN

SCALE 1" = 80'-0"

GENERAL NOTES

1. SEE GA101 FOR ACCESSIBLE PATH OF TRAVEL
2. DIMENSIONS GIVEN TO ASSUMED PROPERTY LINE ARE FOR CODE ANALYSIS PURPOSES ONLY AND SHALL NOT BE USED TO LOCATE BUILDINGS FOR STAKING PURPOSES. SEE CIVIL DRAWINGS FOR EXACT BUILDING LOCATIONS
3. FOR APPROVED DSA 810, SEE CIVIL.

CODE ANALYSIS

1. GOVERNING CODE: 2022 CALIFORNIA BUILDING CODE
2. OCCUPANCY TYPE: (CBC CHAPTER 3) GROUP E OCCUPANCY
3. CONSTRUCTION TYPE: (CBC 601 & TABLE 602) TYPE V-B (NON-SPRINKLERED)
4. BASIC ALLOWABLE HEIGHT AND BUILDING AREA: (CBC TABLE 504.3, 504.4, 506.2)

OCCUPANCY GROUP	SF PER STORY	MAX # OF STORIES	ALLOWABLE BLDG HT
GROUP E (NS)	9,500 SF	1 STORIES	40 FT

5. ACTUAL BUILDING HEIGHT
   HOME DUGOUT: 1-STORY, 9'-7" HEIGHT
   VISITOR DUGOUT: 1-STORY, 9'-7" HEIGHT
   SHADE STRUCTURE 1: 1-STORY, 17'-4" HEIGHT
   SHADE STRUCTURE 2: 1-STORY, 18'-4" HEIGHT
   MODULAR RESTROOM 1: 1-STORY, 10'-10" HEIGHT
   MODULAR RESTROOM 2: 1-STORY, 10'-10" HEIGHT
6. ALLOWABLE HEIGHT INCREASES: (CBC TABLE 504) NOT USED
7. ACTUAL BUILDING AREA

BUILDING	*ACTUAL GROSS BUILDING AREA*
HOME DUGOUT	*826 SF*
VISITOR DUGOUT	*695 SF*
SHADE STRUCTURE 1	*4,424 SF*
SHADE STRUCTURE 2 + VISITOR DUGOUT (COMBINED SF FOR FIRE AREA)	*3,058 SF* *+695 SF* 3,753 SF
MODULAR RESTROOM 1	*272 SF*
MODULAR RESTROOM 2	*183 SF*

8. BASIC ALLOWABLE BUILDING AREA FRONTAGE INCREASE: (CBC 506.3) NOT USED
9. OCCUPANT LOAD: (CBC 1004, TABLE 1004.5)
   HOME DUGOUT: 826 SF / 20 = 42 OCCUPANTS
   VISITOR DUGOUT: 695 SF / 20 = 35 OCCUPANTS
   SHADE STRUCTURE #1: MAX 6 OCCUPANTS (BATTING CAGE USE ONLY)
   SHADE STRUCTURE #2: MAX 6 OCCUPANTS (BATTING CAGE USE ONLY)
   BLEACHERS #1: (21'-0" x 5 ROWS)/18" PER OCCUPANT = 70 OCC x 3 BLEACHER SET = 210 OCCUPANTS
   BLEACHERS #2:(21'-0" x 5 ROWS)/18" PER OCCUPANT = 70 OCC x 3 BLEACHER SET = 210 OCCUPANTS

LEGEND

AREA OF WORK: SHOWN FOR REFERENCE ONLY - REFER TO ALL OTHER CONSTRUCTION DOCUMENTS FOR FULL SCOPE OF WORK NOT SHOWN HERE

PROPERTY LINE

EXISTING STRUCTURE WITH NO SCOPE OF WORK

STRUCTURE UNDER THE SCOPE OF WORK

(E) FIRE ACCESS ROAD (MINIMUM 20'-0" CLEAR WIDTH UNO)

EMERGENCY FIRE TRUCK ACCESS PATH OF TRAVEL ROUTE IS TO BE A MINIMUM OF 20' WIDE BY 15'-6" VERTICAL CLEARANCE WITH 26' INSIDE TURNING RADIUS AND AN ADDITIONAL 2' OF WIDTH PROVIDED TO ALLOW FOR CLEARANCE OF APPARATUS BUMPER OVERHANG, TYP. VEHICLE BARRIERS SUCH AS GATES SHALL BE PROVIDED WITH A KNOX BOX AT CAMPUS ENTRY POINTS.

(E) FIRE HYDRANT (FH)

EXIT AND NUMBER OF OCCUPANTS USING EXIT

PATH OF EGRESS

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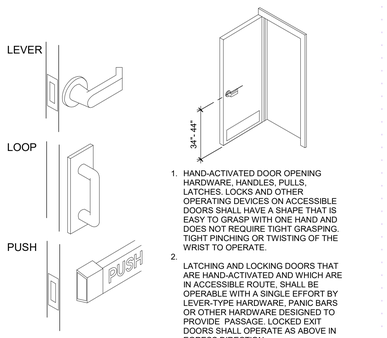
TITLE
CODE ANALYSIS & FIRE TRUCK ACCESS SITE PLAN

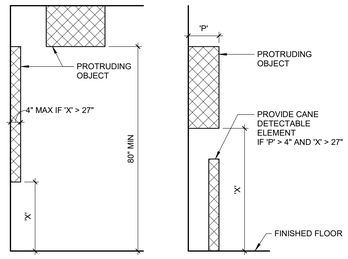
SHEET
GL102



1. HAND-ACTIVATED DOOR OPENING HARDWARE, HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERATING DEVICES ON ACCESSIBLE DOORS SHALL HAVE A SHAPE THAT IS EASY TO GRASP WITH ONE HAND AND DOES NOT REQUIRE TIGHT GRASPING, TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE.
2. LATCHING AND LOCKING DOORS THAT ARE HAND-ACTIVATED AND WHICH ARE IN ACCESSIBLE ROUTE, SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER-TYPE HARDWARE, PANIC BARS OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE. LOCKED EXIT DOORS SHALL OPERATE AS ABOVE IN EGRESS DIRECTION.

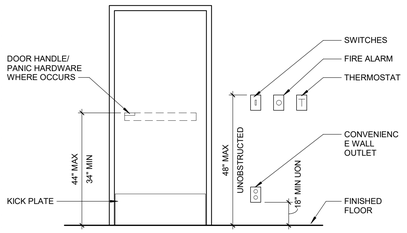
1 ACCESSIBLE DOOR HARDWARE REQUIREMENTS

1" = 1'-0" | 0500_0100_ACC DOOR HARDWARE REQ_01



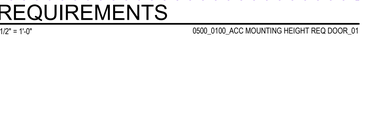
5 PROTRUDING OBJECTS

1/2" = 1'-0" | 0500_0100_PROTRUDING OBJECTS_01



2 ACCESSIBLE MOUNTING HEIGHT REQUIREMENTS

1/2" = 1'-0" | 0500_0100_ACC MOUNTING HEIGHT REQ DOOR_01

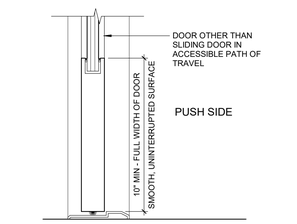


NOTE

1. DOOR CLOSERS, IF PRESENT, MUST BE SET SO THAT IT TAKES DOOR AT LEAST 5 SECONDS TO CLOSE FROM AN OPEN POSITION OF 90 DEGREES TO 12 DEGREES FROM THE LATCH PER 11B-404.2.8.1.
2. FORCE REQUIRED TO OPERATE DOOR SHALL BE 5 LBS MAXIMUM PRESSURE AT INTERIOR AND EXTERIOR DOORS AND 15 LBS MAXIMUM TO OPERATE AT FIRE DOORS WHERE ALLOWED BY THE AHJ PER CBC 11B-404.2.9.

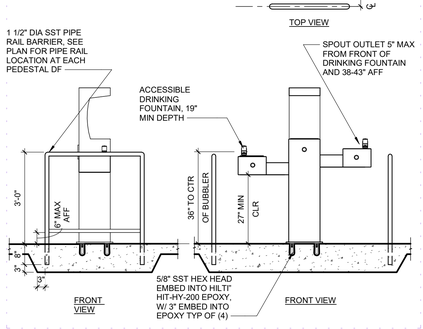
3 ACCESSIBLE DOOR CLOSER REQUIREMENTS

1/2" = 1'-0" | 0500_0100_ACC DOOR CLOSER REQ_01



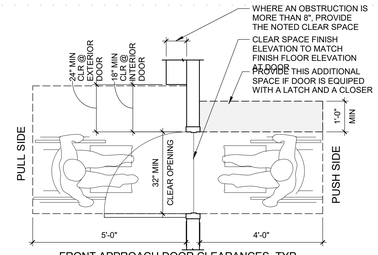
4 ACCESSIBLE DOOR SURFACE REQUIREMENT

3" = 1'-0" | 0500_0100_ACC DOOR SURFACE REQ_01

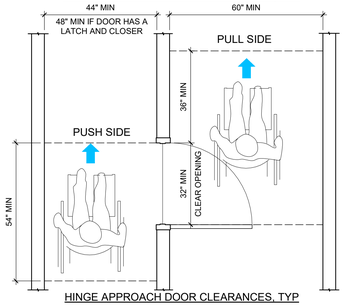


6 PEDESTAL DRINKING FOUNTAIN

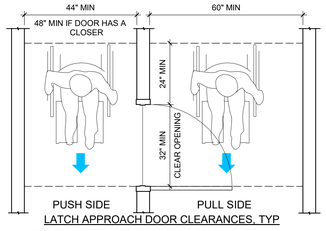
1/2" = 1'-0" | 0500_1540_PEDESTAL DRINKING FOUNTAIN_01 | 170614.Q2



FRONT APPROACH DOOR CLEARANCES, TYP



HINGE APPROACH DOOR CLEARANCES, TYP

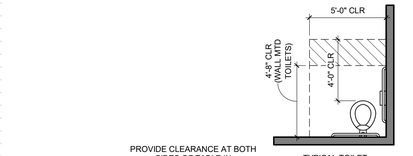


LATCH APPROACH DOOR CLEARANCES, TYP

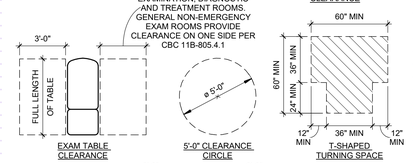
NOTE: AREA MUST NOT EXCEEDED A SLOPE OF 2% IN ANY DIRECTION

10 ACCESSIBLE DOOR CLEARANCES

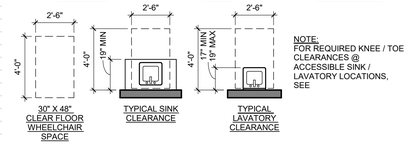
1/2" = 1'-0" | 0500_0100_ACC DOOR CLEARANCES_01



TYPICAL TOILET CLEARANCE

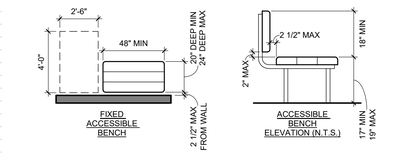


EXAM TABLE CLEARANCE | 5'-0" CLEARANCE CIRCLE | T-SHAPED TURNING SPACE



30" X 48" CLEAR FLOOR WHEELCHAIR SPACE | TYPICAL SINK CLEARANCE | TYPICAL LAVATORY CLEARANCE

NOTE:
FOR REQUIRED KNEE / TOE CLEARANCES @ ACCESSIBLE SINK / LAVATORY LOCATIONS, SEE



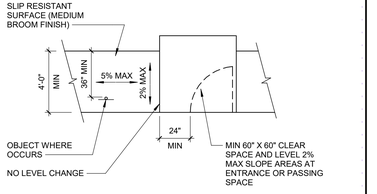
FIXED ACCESSIBLE BENCH | ACCESSIBLE BENCH ELEVATION (N.T.S.)

REFRIGERATOR / FREEZER PARALLEL APPROACH | TYP STORAGE LOCKERS (FORWARD APPROACH SHOWN)

NOTE:
'A' DESIGNATES ACCESSIBLE LOCKER. THIS LOCKER SHALL HAVE OPERABLE PARTS THAT ARE EASY TO GRASP WITH ONE HAND THAT DO NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST TO OPERATE. ALL OPERABLE PARTS, INTERIOR HOOKS, AND SHELVES SHALL BE 48" MAX. AFF, THERE MUST ALSO BE A SHELF NO LOWER THAN 15" AFF. PER CBC 11B-308 AND CBC 11B-309.4

14 ACCESSIBILITY CLEARANCES

1/4" = 1'-0" | 0500_0100_ACC CLEARANCES_01 | 171108



17 ACCESSIBLE ROUTE WALK

1/4" = 1'-0" | 0500_0100_ACC ROUTE WALK_01

ENTRANCES AND DOORS:

1. IN NEW CONSTRUCTION, ALL PRIMARY ENTRANCES AND EXTERIOR GROUND FLOOR EXIT DOORS TO BUILDINGS AND FACILITIES SHALL BE ACCESSIBLE TO THE DISABLED.
2. IN EXISTING BUILDINGS WHERE NOT ALL ENTRANCES ARE ACCESSIBLE, ALL ACCESSIBLE ENTRANCES SHALL BE IDENTIFIED WITH AT LEAST ONE STANDARD INTERNATIONAL SYMBOL OF ACCESSIBILITY SIGN AND WITH ADDITIONAL DIRECTIONAL SIGNS, AS REQUIRED, VISIBLE FROM APPROACHING PEDESTRIAN WAYS.
3. EVERY REQUIRED ENTRANCE OR PASSAGE DOORWAY SHALL BE OF A SIZE AS TO PERMIT THE INSTALLATION OF A DOOR NOT LESS THAN 36 INCHES IN WIDTH, AND NOT LESS THAN 80 INCHES IN HEIGHT. DOORS SHALL BE CAPABLE OF OPENING AT LEAST 90 DEGREES AND SHALL BE MOUNTED SO THAT THE CLEAR WIDTH THE DOORWAY IS NOT LESS THAN 32 INCHES.
4. LATCHING AND LOCKING DOORS THAT ARE HAND ACTIVATED AND WHICH ARE PART OF AN ACCESSIBLE ROUTE OR SPACE, SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER TYPE HARDWARE, PANIC BARS, PUSH-PULL ACTIVATING BARS. OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE.
5. HAND ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED BETWEEN 34 INCHES MINIMUM AND 44 INCHES MAXIMUM ABOVE THE FLOOR.
6. THE FLOOR OR LANDING LENGTH ON EACH SIDE OF AN ENTRANCE OR A PASSAGE DOOR SHALL BE LEVEL AND CLEAR AT LEAST 60 INCHES IN THE DIRECTION OF THE DOOR SWING AND AT LEAST 48 INCHES OPPOSITE THE DIRECTION OF THE DOOR SWING AS MEASURED AT RIGHT ANGLES TO THE FACE OF THE DOOR IN THE CLOSED POSITION. THE WIDTH OF THE LEVEL AND CLEAR AREA ON THE SIDE WHICH THE DOOR SWINGS SHALL EXTEND A MINIMUM OF 24 INCHES PAST THE STRIKE EDGE OF THE DOOR FOR DOORS WITH LATCH SIDE APPROACH AND 36 INCHES FOR DOORS REQUIRING HINGE SIDE APPROACH.
7. THE FLOOR OR LANDING SHALL NOT BE MORE THAN 1/2 INCH LOWER THAN THE THRESHOLD OF THE DOORWAY. CHANGES IN LEVEL BETWEEN 1/4 INCH AND 1/2 INCH SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2.
8. THE BOTTOM 10 INCHES OF ALL DOORS (EXCEPT AUTOMATIC AND SLIDING) SHALL HAVE A SMOOTH UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION WHERE NARROW FRAME DOORS ARE USED, A 10 INCH HIGH SMOOTH PANEL SHALL BE INSTALLED ON THE PUSH SIDE OF THE DOOR, WHICH WILL ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST.
9. THE MAXIMUM EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 LBS. FOR EXTERIOR OR INTERIOR DOORS. SUCH PULL OR PUSH EFFORT BEING APPLIED AT RIGHT ANGLES TO HINGED DOORS AND AT THE CENTER PLANE OF SLIDING OR FOLDING DOORS. COMPENSATING DEVICES OR AUTOMATIC DOOR OPERATORS MAY BE UTILIZED TO MEET THE ABOVE STANDARDS. WHEN FIRE DOORS ARE REQUIRED, THE MAXIMUM EFFORT TO OPERATE THE DOOR MAY NOT EXCEED 15 LBS.
10. EACH GRADE-LEVEL EXTERIOR EXIT DOOR SHALL BE IDENTIFIED BY A TACTILE SIGN WITH THE WORD "EXIT". EACH EXIT DOOR THAT LEADS DIRECTLY TO GRADE-LEVEL EXTERIOR EXIT BY MEANS OF STAIRWAY OR RAMP IS IDENTIFIED BY A TACTILE SIGN THAT STATES "EXIT STAIR DOWN," "EXIT RAMP DOWN," "EXIT STAIR UP," OR "EXIT RAMP UP" AS APPROPRIATE. EACH EXIT DOOR THAT LEADS DIRECTLY TO GRADE-LEVEL EXTERIOR EXIT BY MEANS OF AN EXIT ENCLOSURE OR EXIT PASSAGEWAY IS IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS "EXIT ROUTE." EACH ACCESS DOOR FROM AN INTERIOR ROOM OR AREA TO A CORRIDOR OR HALLWAY THAT IS REQUIRED TO HAVE A VISUAL EXIT SIGN IS IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS "EXIT ROUTE". EACH DOOR THROUGH A HORIZONTAL EXIT IS IDENTIFIED BY A TACTILE EXIT SIGN WITH THE WORDS "TO EXIT."

CL

1. MINIMUM CLEAR FLOOR OR GROUND SPACE REQUIRED TO ACCOMMODATE A SINGLE, STATIONARY WHEELCHAIR AND OCCUPANT IS 30 INCHES BY 48 INCHES. MINIMUM CLEAR FLOOR OR GROUND SPACE FOR WHEELCHAIRS MAY BE POSITIONED FOR FORWARD OR PARALLEL APPROACH TO AN OBJECT, UNLESS RESTRICTED BY CODE. FLOOR OR GROUND SPACE FOR WHEELCHAIRS MAY BE PART OF THE KNEE SPACE REQUIRED UNDER SOME ELEMENTS AS ALLOWED BY CODE.
2. PROVIDE A MINIMUM CLEAR SPACE 60 INCHES WIDE AT ALCOVES GREATER THAN 15 INCHES DEEP AND DESIGNED FOR SIDE APPROACH.
3. PROVIDE A MINIMUM CLEAR SPACE 36 INCHES WIDE AT ALCOVES GREATER THAN 24 INCHES DEEP AND DESIGNED FOR FRONT APPROACH.

HAZARDOUS AND PROJECTING OBJECTS

1. OBJECTS PROJECTING FROM WALLS WITH THEIR LEADING EDGES BETWEEN 27 INCHES AND 80 INCHES ABOVE THE FINISHED FLOOR SHALL PROTRUDE NO MORE THAN 4" INTO WALKS, HALLS, CORRIDORS, PASSAGEWAYS, OR AISLES.
2. OBJECTS MOUNTED WITH THEIR LEADING EDGES AT OR BELOW 27 INCHES ABOVE THE FINISHED FLOOR MAY PROTRUDE ANY AMOUNT.
3. FREE-STANDING OBJECTS MOUNTED ON POSTS / PYLONS MAY OVERHANG 12 INCHES MAXIMUM FROM 27 INCHES TO 80 INCHES ABOVE THE GROUND OR FINISHED FLOOR.
4. PROTRUDING OBJECTS SHALL NOT REDUCE THE REQUIRED CLEAR WIDTH OF AN ACCESSIBLE ROUTE OR MANEUVERING SPACE.
5. ANY OBSTRUCTION OVERHANGING A PEDESTRIAN WAY SHALL BE A MINIMUM OF 80 INCHES ABOVE THE WALKING SURFACE AS MEASURED TO THE BOTTOM OF THE OBSTRUCTION.

PARKING

1. SURFACE SLOPES OF ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED 1/4 INCH PER FOOT (2% GRADIENT) IN ANY DIRECTION.
2. ACCESSIBLE PARKING SPACES SHALL BE LOCATED SO AS NOT TO REQUIRE USERS TO TRAVEL OR WALK BEHIND ANY PARKING SPACE OTHER THAN THEIR OWN.
3. IN EACH PARKING AREA, A BUMPER OR CURB SHALL BE PROVIDED AND LOCATED TO PREVENT ENCROACHMENT OF CARS OVER THE REQUIRED WIDTH OF WALKWAYS.
4. PARKING SPACES RESERVED FOR PERSONS WITH DISABILITIES SHALL BE IDENTIFIED BY A REFLECTORIZED SIGN PERMANENTLY POSTED IMMEDIATELY ADJACENT TO AND VISIBLE FROM EACH STALL OR SPACE CONSISTING OF A PROFILE VIEW OF A WHEELCHAIR WITH OCCUPANT, IN WHITE ON DARK BLUE BACKGROUND. THE SIGN SHALL NOT BE SMALLER THAN 70 INCHES IN AREA AND, WHEN IN AN ACCESSIBLE ROUTE, SHALL BE POSTED AT A MINIMUM HEIGHT OF 80 INCHES FROM THE BOTTOM OF THE SIGN TO THE PARKING SPACE FINISHED GRADE. SIGNS MAY ALSO BE MOUNTED ON THE WALL AT THE INTERIOR END OF THE PARKING SPACE AT A MINIMUM HEIGHT OF 60 INCHES FROM THE PARKING SPACE FINISHED GRADE, GROUND, OR WALK.

DISCREPANCIES

1. THE INFORMATION DEPICTED ON THIS SHEET REPRESENT BUILDING CODE REQUIREMENTS. NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES ON THIS PROJECT THAT WOULD CREATE A CONFLICT WITH THE PLANS OR ACCESS REQUIREMENTS.

20 ACCESSIBLE ROUTE NOTES

1/2" = 1'-0" | 0500_0100_ACC ROUTE NOTES_01

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TITLE
ACCESSIBILITY REQUIREMENTS

SHEET
G-501

IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT. SCALE ACCORDINGLY

0 1/4" 1/2" 1"

ABBREVIATIONS

NOTE: NOT ALL ABBREVIATIONS MAY BE USED ON THESE PLANS.

AB	AGGREGATE BASE
AC	ASPHALTIC CONCRETE
AD	AREA DRAIN
APN	ASSESSOR'S PARCEL NUMBER
ARV	AIR RELEASE VALVE
ASB	AGGREGATE SUB-BASE
BO	BLOW-OFF VALVE
BV	BUTTERFLY VALVE
BW	BACK OF WALK
C/L	CENTERLINE
CB	CATCH BASIN
CL	CLASS
CMP	CORRUGATED METAL PIPE
CATV	CABLE TELEVISION
CO	CLEANOUT
COMM	COMMUNICATION
CONC.	CONCRETE
CONST.	CONSTRUCT
CR	CURB RETURN
CS	CONCRETE SURFACE
DC	DOUBLE CHECK VALVE
DDC	DOUBLE DETECTOR CHECK VALVE
DG	DECOMPOSED GRANITE
DI	DROP INLET
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DWG	DRAWING
DS	DOWNSPOUT
E	ELECTRIC
EP	EDGE OF PAVEMENT
ESMT	EASEMENT
EX	EXISTING
FS	FIRE SERVICE LINE
FDC	FIRE DEPARTMENT CONNECTION
FL	FLOWLINE
FM	SANITARY SEWER FORCE MAIN
FF	FINISHED FLOOR ELEVATION
FH	FIRE HYDRANT
G	GAS
GR	GRATE ELEVATION
GRD	GRADE ELEVATION
GV	GATE VALVE
HB	HOSE BIBB
HBD	HEADER BOARD
HDPE	HIGH DENSITY POLYETHYLENE PIPE
HP	HIGH POINT
INV	PIPE INVERT ELEVATION
JP	JOINT UTILITY POLE
LF	LINEAL FEET
LIP	LIP OF GUTTER
LT	LEFT
MS	MOWSTRIP
NTS	NOT TO SCALE
OH	OVERHEAD
PCC	PORTLAND CEMENT CONCRETE
PD	PLANTER DRAIN
PIV	POST INDICATOR VALVE
P/L	PROPERTY LINE
PP	POWER POLE
PUE	PUBLIC UTILITY EASEMENT
PVC	POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
R	RADIUS
RIM	MANHOLE RIM ELEVATION
RP	REDUCED PRESSURE BACKFLOW PREVENTER
RS	RESILIENT SURFACE (ELEVATION)
RW	RIGHT OF WAY
SCH	SCHEDULE
SD	STORM DRAIN
SDMH	STORM DRAIN MANHOLE
SG	SUBGRADE ELEVATION
SI	SIDE INLET
SS	SANITARY SEWER
SSMH	SANITARY SEWER MANHOLE
STD	STANDARD
S/W	SIDEWALK
T	TELEPHONE
TC	TOP OF CURB
TD	TRENCH DRAIN
TDCB	TRENCH DRAIN CATCH BASIN
TP	TELEPHONE POLE
TRW	TOP OF RETAINING WALL
TSW	TOP OF SEAT WALK
TS	TRACK FINISHED SURFACE
TW	TOP OF WALK ELEVATION
U	UTILITY
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
VCP	VITRIFIED CLAY PIPE
W	WATER
W/	WITH
W/O	WITHOUT
WV	WATER VALVE

SYMBOLS LEGEND

NOTE: NOT ALL SYMBOLS MAY BE USED ON THESE PLANS.

PROPOSED GRADING & DRAINAGE SYMBOLS:

- 8" SD — STORM DRAIN LINE (SIZE AND FLOW SHOWN)
- STORM DRAIN MANHOLE (SDMH)
- DROP INLET (DI)
- AREA DRAIN (AD)
- PLANTER DRAIN (PD)
- FLOOR DRAIN (FD)
- TRENCH DRAIN (TD)
- CO — STORM DRAIN CLEANOUT
- 99.99 — ELEVATION
- FF=100.00 — FINISHED FLOOR ELEVATION
- PAD=99.33 — BUILDING PAD ELEVATION
- CONCRETE SIDEWALK
- GRADED DIRECTION FOR DRAINAGE FLOW
- 1.0% — GRADED DIRECTION W/ DESIGN/ACTUAL SLOPE
- 1.0% / 2.0% — GRADED DIRECTION W/ MIN. & MAX. SLOPE
- SWALE
- SLOPE
- TREE TO BE REMOVED
- TREE TO REMAIN
- RETAINING WALL
- OLR — OVERLAND RELEASE PATH

PROPOSED SANITARY SEWER SYMBOLS:

- 6" SS — SANITARY SEWER LINE (SIZE AND FLOW SHOWN)
- SANITARY SEWER MANHOLE (SSMH)
- CO — SEWER CLEANOUT / FLUSHER BRANCH

PROPOSED WATER SYMBOLS:

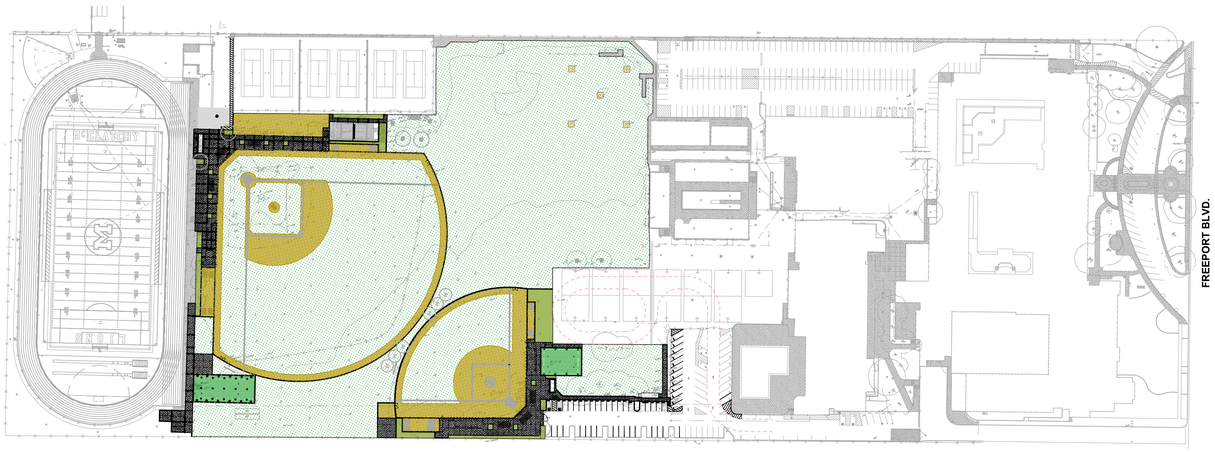
- 8" W — WATER LINE & SIZE
- 8" FS — FIRE LINE & SIZE
- 8" DW — DOMESTIC WATER LINE & SIZE
- 8" RW — RECLAIMED WATER LINE & SIZE
- 8" IRR — IRRIGATION SERVICE LINE & SIZE
- 8" NP — NON POTABLE WATER LINE & SIZE
- 8" SP — FIRE SPRINKLER SVC. LINE & SIZE
- GATE VALVE
- M — WATER METER
- FH — FIRE HYDRANT ASSEMBLY
- FDC — FIRE DEPARTMENT CONNECTION
- DC — DETECTOR CHECK VALVE
- DDC — DOUBLE DETECTOR CHECK VALVE
- RP — REDUCED PRESSURE BACKFLOW PREVENTER
- BUTTERFLY VALVE
- 1" — AIR RELEASE VALVE + SIZE
- 1" — BLOW-OFF VALVE + SIZE
- PIV — POST INDICATOR VALVE

CIVIL IMPROVEMENT PLANS FOR

C.K. McCLATCHY HIGH SCHOOL ATHLETIC FIELD REPLACEMENT

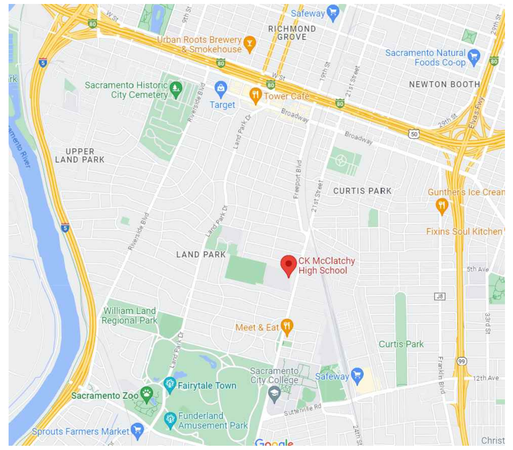
3066 FREEPORT BOULEVARD
SACRAMENTO, CA 95818

NORTH
0 100'
1 inch = 100 feet



SITE PLAN

SCALE = 1" = 100'-0"



VICINITY MAP

NO SCALE

SHEET INDEX

APPLICABLE CODES & STANDARDS

2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 CCR*

2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 CCR
(2021 INTERNATIONAL BUILDING CODE, VOL. 1 & 2, AND 2022 CALIFORNIA AMENDMENTS)

2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR
(2020 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS)

2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 CCR
(2021 IAPMO UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)

2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 CCR

2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR
(2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)

2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR
TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

GENERAL NOTES

1. THE TYPES, LOCATIONS, SIZES, AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, WARREN CONSULTING ENGINEERS CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES, NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE PLANS. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL NOTIFY MEMBERS OF UNDERGROUND SERVICE ALERT (USA) TWO (2) WORKING DAYS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK BY CALLING TOLL FREE 1-800-227-2600, OR 811.

811 Know what's below. Call before you dig.

2. WARREN CONSULTING ENGINEERS, INC. (WCE) ASSUMES NO RESPONSIBILITY FOR ERRORS IN PHYSICAL LOCATION OF IMPROVEMENTS, HORIZONTAL OR VERTICAL, IF STAKED BY OTHERS. IN ADDITION, ANY SUCH ERRORS IN PHYSICAL LOCATION MAY AFFECT THE INTENDED DESIGN OF SUCH IMPROVEMENTS AND WCE CANNNOT BE HELD RESPONSIBLE FOR SUCH CONDITIONS WHICH ARE A RESULT OF ERRORS IN SURVEYING, OR IMPROPER CONSTRUCTION.

3. IF SUBSURFACE CULTURAL RESOURCES, REMAINS, AND/OR ARTIFACTS ARE UNCOVERED DURING PROJECT CONSTRUCTION, ALL WORK IN THE VICINITY SHALL BE STOPPED UNTIL SUCH ITEMS CAN BE ASSESSED BY AN APPROPRIATE MEMBER OF THE COUNTY ENVIRONMENTAL IMPACT SECTION STAFF.

4. CONTRACTOR AGREES THAT HE/SHE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND SHALL NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.

5. THE CONTRACTOR SHALL OBTAIN AN EXCAVATION PERMIT FROM THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL SAFETY FOR ALL EXCAVATIONS OF 5 FEET OR MORE IN DEPTH.

6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE ALL NECESSARY PRE-BID AND PRE-CONSTRUCTION SITE INSPECTION, AND/OR OBSERVATIONS ON THE SITE TO PRE-DETERMINE ALL HIS/HER MEANS AND METHODS NECESSARY TO COMPLETE THE IMPROVEMENTS SHOWN ON THESE PLANS AND PER THE PROJECT SPECIFICATIONS. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE, AND INCLUDE IN HIS/HER CONTRACT, ALL MEANS AND METHODS NECESSARY TO PERFORM A COMPLETE AND ACCEPTABLE JOB.

7. WHERE IMPROVEMENTS LIE WITHIN AN EXISTING DEVELOPED AREA, CONTRACTOR SHALL USE CAUTION WHEN ACCESSING THE SITE THROUGH THESE EXISTING IMPROVEMENTS. IT IS THE CONTRACTORS RESPONSIBILITY TO PROTECT ANY SUCH EXISTING IMPROVEMENTS OUTSIDE THE PROJECT BOUNDARY, OR EXISTING IMPROVEMENTS WITHIN THE BOUNDARY WHICH ARE TO REMAIN. PROPER PRECAUTIONS SHALL BE PROVIDED AND MAINTAINED THROUGHOUT CONSTRUCTION. ANY DAMAGE SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER.

8. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO KEEP DETAILED RECORDS OF MINOR CHANGES OR ADJUSTMENTS MADE DURING CONSTRUCTION (WHICH WERE NOT FORMALLY ISSUED). UPON PROJECT COMPLETION, THESE RECORDS AND/OR INFORMATION SHALL BE PROVIDED TO THE OWNER AND WARREN CONSULTING ENGINEERS, INC. UNLESS AN OFFICIAL "AS-BUILT" SET OF PLANS IS A REQUIREMENT OF THE CONTRACT. IF AS-BUILT PLANS ARE A REQUIREMENT OF THE CONTRACT, REFER TO SPECIFICATIONS FOR AS-BUILT DELIVERABLE REQUIREMENTS.

9. IN VEHICULAR PATHWAYS, EXISTING ASPHALTIC AND/OR CONCRETE SURFACES SHALL BE CUT TO A NEAT AND STRAIGHT LINE, PARALLEL OR PERPENDICULAR TO THE VEHICULAR TRAVELED PATH. THIS IS TYPICALLY THE ROADWAY CENTERLINE, BUT MAY VARY. THAT SAWCUT EDGE SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION SO A CLEAN EDGE REMAINS FOR PATCH BACK. IF EDGE IS DAMAGED, A NEW SAW CUT WILL BE REQUIRED. THE EXPOSED EDGE SHALL BE "TACKED" WITH EMULSION PRIOR TO PAVING.

10. NO BURNING OR BLASTING SHALL BE ALLOWED ONSITE UNLESS SPECIFICALLY ADDRESSED ON PLANS, OR SPECIFICALLY APPROVED AND COORDINATED WITH THE ARCHITECT, ENGINEER, AND LOCAL AGENCY OR OTHER ADMINISTRATIVE AUTHORITY.

11. SUBGRADE AND RESULTING FINISHED GRADE SHALL BE CONSTRUCTED SMOOTH AND UNIFORM BETWEEN SPOT ELEVATIONS, CONTOURS OR OTHER STRUCTURE ELEVATIONS SHOWN ON GRADING OR OTHER PLANS. NO MOUNDS, RUTS, DEPRESSIONS OR OTHER GRADING DEFICIENCIES WILL BE ALLOWED UNLESS SPECIFICALLY SHOWN ON PLANS.

12. ON NEW WATER SYSTEMS, SERVICE LATERALS SHALL BE MADE USING APPROPRIATE "TEE" AND "WYE" FITTINGS. SADDLE TAPS WILL ONLY BE ALLOWED WHEN MAKING CONNECTIONS TO EXISTING WATER MAINS.

13. CURING COMPOUND SHALL BE APPLIED IN A CONTINUOUS SOLID WET FLOWING COAT. ANY "SPOTTY" APPLICATIONS SHALL BE RECOATED IMMEDIATELY. APPLICATION SHALL BE INSPECTED BY PROJECT INSPECTOR DURING APPLICATION.

14. EMBEDMENT OF FEATURES IN CONCRETE PAVING, CURBS, OR WALLS, SUCH AS SQUARE OR ROUND TUBING, POSTS, OR COLUMNS, STEEL BOLTED PLATES, OR OTHER STRUCTURES, SHALL REQUIRE ADDITIONAL SCORE OR EXPANSION JOINTS TO PREVENT UNCONTROLLED CRACKING. THOSE ADDITIONAL JOINTS MAY OR MAY NOT BE SPECIFICALLY SHOWN ON PLANS BUT SHALL BE PROVIDED BY THE CONTRACTOR.

15. EMBEDMENT OF FEATURES IN CONCRETE PAVING, CURBS, OR WALLS, SUCH AS SQUARE OR ROUND TUBING, POSTS, OR COLUMNS, STEEL BOLTED PLATES, OR OTHER STRUCTURES, SHALL REQUIRE A MINOR ADJUSTMENT OF REBAR WITHIN CONCRETE TO ALLOW FOR SUCH STRUCTURE. THAT REBAR ADJUSTMENT MAY NOT BE SPECIFICALLY SHOWN ON PLANS.

16. NO MORE THAN 1 GALLON OF WATER PER YARD OF CONCRETE CAN BE ADDED TO THE TRUCK AFTER ARRIVAL TO PROJECT SITE. THE ADDITION OF WATER CAN ONLY BE ADDED UNDER THE SUPERVISION OF THE CONCRETE INSPECTOR OR LABORATORY TECHNICIAN.

17. WHEN PUMPING CONCRETE FOR PLACEMENT, ABSOLUTELY NO WATER IS TO BE ADDED TO PUMP HOPPER. ANY WATER ADDED TO HOPPER WILL BE REASON FOR CONCRETE REJECTION AT THE CONTRACTORS EXPENSE.

18. ALL CONTRACTION/CONSTRUCTION JOINTS "CJ" SHALL BE 1/4 THE SLAB THICKNESS DEEP, BUT NO LESS THAN 1" FOR CONTROLLING OF CRACKING. CONTRACTOR SHALL EXERCISE CAUTION WHEN FINAL TROWELING OF CONCRETE SO AS NOT TO FILL IN THESE JOINTS WITH CONCRETE CREAM. ANY CRACKS OUTSIDE OF JOINTS WHICH WERE CONSTRUCTED LESS THAN 1" DEEP, SHALL BE CAUSE FOR CONCRETE SLAB(S) TO BE REMOVED AND REPLACE AT CONTRACTORS EXPENSE.

19. ANY SCREED BOARDS SET WITHIN CONCRETE SLABS SHALL BE AN "OVERHEAD SCREED" SO THERE IS NO INTERFERENCE WITH THE PLACEMENT AND ALIGNMENT OF SLAB REINFORCING.

20. 3-1/2" FELT JOINTS WILL NOT BE ACCEPTED. PROVIDE A FULL 4" FELT JOINT FOR 4" SLAB CONSTRUCTION, AND A 6" FELT JOINT FOR A 6" SLAB SLAB CONSTRUCTION.

21. SHOULD ANY SHRINKAGE CRACKS OCCUR OUTSIDE OF EITHER THE EXPANSION JOINTS OR CRACK CONTROL JOINTS, THEN THE CONCRETE SLAB SHALL BE SAWCUT AT THE NEAREST JOINTS ON EACH SIDE OF THE CRACK AND THE CONCRETE SECTION SHALL BE, REMOVED AND REPLACED. NEW CONCRETE SHALL BE DOWELED INTO EXISTING CONCRETE PER DRAWING DETAIL.

22. ALL AREAS DISTURBED BY GRADING OPERATIONS WHETHER SHOWN ON THE DRAWINGS OR NOT SHALL BE HYDRO SEEDED UNLESS OTHERWISE NOTED. HYDRO SEEDING SHALL CONFORM TO LOCAL CITY/COUNTY STANDARDS.

23. REPAIR OR PATCHING OF GALVANIZED METALS, SUCH AS AFTER WELDING GALVANIZED COMPONENTS, SHALL BE MADE USING A ZINC COMPOSITION "HOT STICK" APPLICATION PER ASTM A 780-01. GALVANIZING PAINTS WILL NOT BE ALLOWED.

WATER FLUSHING NOTES:

POTABLE WATER FOR HIGH VELOCITY FLUSH 3FT/SEC MAY BE FLUSHED INTO THE STORM DRAIN PROVIDING THE FOLLOWING MEASURES ARE ADHERED TO;

THE DEVELOPER / CONTRACTOR QSP MUST BE ONSITE MONITORING THE DISCHARGE FOR;

1. RESIDUAL CHLORINE IS FIELD MEASURED AT <0.019 MG/L;
2. TURBIDITY MUST NOT EXCEED 100 NTU; OR, MUST BE LESS THAN THAT WHICH IS MEASURED IN THE RECEIVING WATER + 20%; AND,
3. PH IS NO LESS THAN 6.5 NOR GREATER THAN 8.5

NOTE: IF THE VOLUME OF THE DISCHARGE IS GREATER THAN 325,850 GALLONS THE CONTRACTOR MUST PROVIDE WRITTEN DOCUMENTATION OF THE AFOREMENTIONED MEASUREMENTS.
CHLORINATED WATER ASSOCIATED WITH DISINFECTION HAS ANY OF THREE (3) OPTIONS:

A. DISCHARGE TO SANITARY SEWER -CONTRACTOR MUST OBTAIN A SEWER DISCHARGE PERMIT FROM SASD-CONTACT EITHER SABINA RYNAS (916) 876-6522 OR LINDA STEVENS (916) 876-5287
B. DE-CHLORINATE AND DISCHARGE TO LAND -RESIDUAL CHLORINE MUST BE FIELD MEASURED AT <0.019 MG/L;
C. DE-CHLORINATE AND PETITION THE REGIONAL WATER BOARD FOR EITHER A LOW THREAT PERMIT OR A WAIVER THERETO

GENERAL PAVING SURFACE NOTES:

1. PROVIDE EQUIVALENT OF MEDIUM BROOM FINISH AT SLOPES UP TO 5.99%, TYPICAL. PROVIDE EQUIVALENT OF HEAVY BROOM FINISH AT SLOPES 6% AND GREATER. REFER TO SPECIFICATIONS.
2. ALL NEW PEDESTRIAN WALKWAYS (NON-RAMP) SHALL BE SLOPED NO GREATER THAN 2.0%, AND NO LESS THAN 0.75% IN ANY DIRECTION, UNLESS SPECIFICALLY LABELED OTHERWISE. ALL CONCRETE SHALL MEET THE FOLLOWING SLOPE REQUIREMENTS:
   - NO GREATER THAN 5% SLOPE IN THE DIRECTION OF TRAVEL.
   - NO GREATER THAN 2% SLOPE CROSSING THE DIRECTION OF TRAVEL.
   - NO GREATER THAN 2% SLOPE IN ANY DIRECTION IN COURTYARD OR PLAZA AREAS.
3. ALL PAVING WITHIN 5 FEET OF BUILDINGS SHALL SLOPE AWAY FROM FOUNDATIONS AT LEAST 1%
4. THE CONTRACTOR SHALL ENSURE THAT A 5'-0" MIN. (SQ.) LEVEL LANDING (1.9% MAX., ANY DIRECTION) IS PROVIDED AT EVERY EXTERIOR DOOR AS IDENTIFIED ON THE PLANS. THIS SHALL BE DONE PRIOR TO CONCRETE POURING TO ENSURE NO VARIATION FROM THE PLANS OR ERROR IN GRADE HAS OCCURED.
5. PAVEMENT ADJOINING BUILDINGS NOT INTENDED FOR PEDESTRIAN TRAVEL SHALL BE SLOPED NO LESS THAN 2% IN ACCORDANCE WITH THE CBC SECTION 1804A.4.
6. PAVEMENT ADJOINING BUILDINGS INTENDED FOR PEDESTRIAN TRAVEL, SUCH AS RAMPS, DOOR OR RAMP LANDINGS, ETC. SHALL BE SLOPED NO LESS THAN 1% IN ACCORDANCE WITH THE CBC SECTION 1804A.4 FOR A MINIMUM DISTANCE OF 10 FEET, AND NOT MORE THAN 1:48 (2.08%) IN ACCORDANCE WITH CBC SECTION 11B-403.3.

LIONAKIS
2025 Nineteenth Street
Sacramento, CA 95818
P 916.558.1900
www.lionakis.com

CONSULTANT

WCE
WARREN CONSULTING ENGINEERS, INC.
1117 WINDFIELD WAY, SUITE 110
EL DORADO HILLS, CA 95762 | (916) 985-1870

REGISTERED PROFESSIONAL ENGINEER ANTHONY J. TASSANO NO. C74698 STATE OF CALIFORNIA 12/07/2023

SEAL

PROJECT
MC CLATCHY HIGH SCHOOL
ATHLETIC FIELD RENOVATION

3066 FREEPORT BLVD.
SACRAMENTO, CA 95818

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

3500 FLORIN ROAD, SACRAMENTO, CA 95823

ISSUED

MARK	DATE	DESCRIPTION
-	8/18/2023	DSA SUBMITTAL
	12/7/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

LIONAKIS PROJECT NO:	023040
DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	02-121610
COPYRIGHT:	LIONAKIS 2023

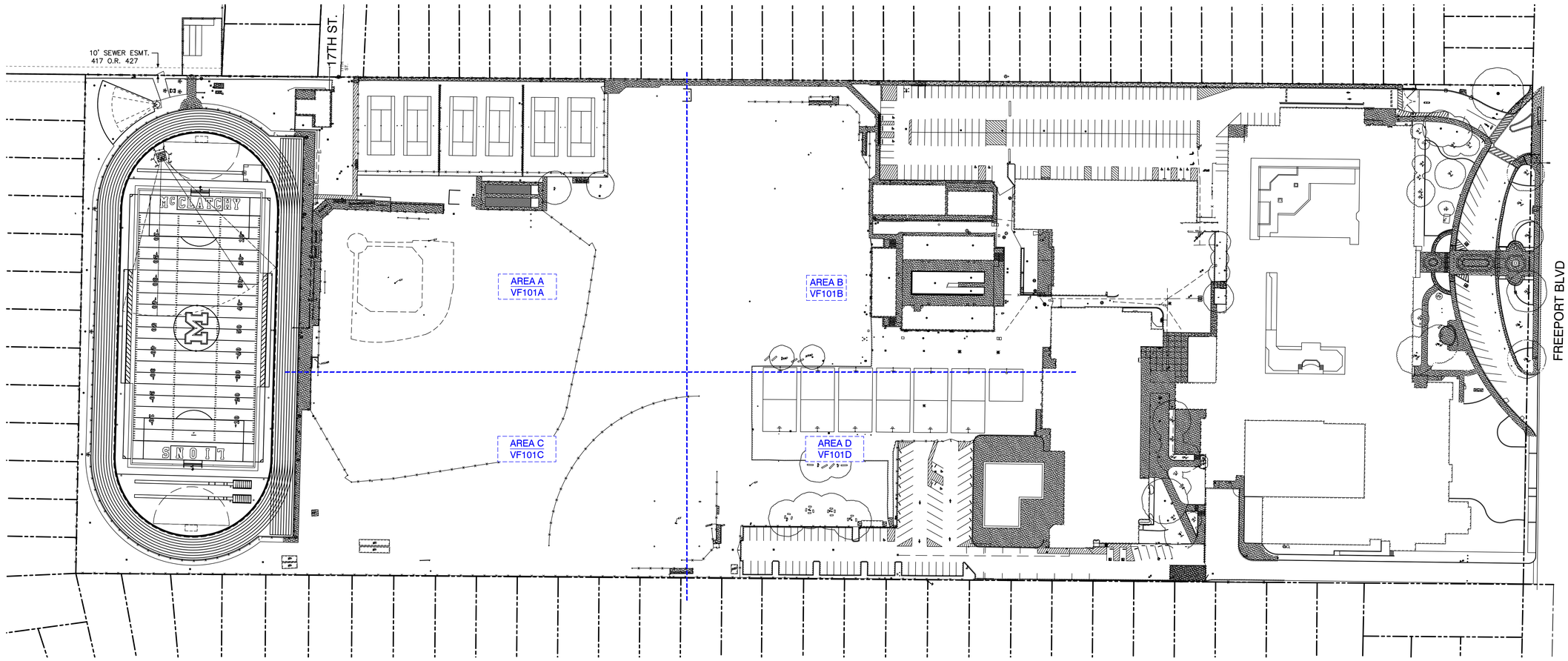
AGENCY

TITLE

CIVIL COVER SHEET

SHEET

C101



EXISTING UTILITIES

- 12"SD — STORM DRAIN LINE (SIZE + DIRECTION OF FLOW)
- 12"SD — STORM DRAIN LINE (RECORD INFORMATION)
- 12"SD — STORM DRAIN LINE (UNDERGROUND LOCATING)
- SD — STORM DRAIN MANHOLE
- STORM DRAIN CLEANOUT
- DROP INLET
- AREA DRAIN
- RWL — RAIN WATER LEADER
- DS — DOWNSPOUT
- 12"SS — SANITARY SEWER LINE (SIZE + DIRECTION OF FLOW)
- 12"SS — SANITARY SEWER LINE (RECORD INFORMATION)
- 12"SS — SANITARY SEWER LINE (UNDERGROUND LOCATING)
- SS — SANITARY SEWER MANHOLE
- SANITARY SEWER CLEANOUT
- —W— WATER LINE (SIZE INDICATED)
- WATER LINE (RECORD INFORMATION)
- WATER LINE (UNDERGROUND LOCATING)
- W — WATER MANHOLE
- WATER VALVE
- WM — WATER METER
- WB — WATER BOX
- IRRIGATION CONTROL VALVE
- FIRE HYDRANT
- BACKFLOW PREVENTER
- SPRINKLER
- HOSE BIBB
- —OH-E— OVERHEAD ELECTRIC LINE
- —E— UNDERGROUND ELECTRIC LINE
- UNDERGROUND ELECTRIC LINE (RECORD INFORMATION)
- UNDERGROUND ELECTRIC LINE (UNDERGROUND LOCATING)
- E — ELECTRIC MANHOLE
- UTILITY POLE (WITH GUY WIRE)
- EM — ELECTRIC METER
- ELECTRIC BOX
- STREET LIGHTING BOX
- LIGHT STANDARD OR
- SIGNAL LIGHT
- FLOOD LIGHT
- ELECTRICAL OUTLET
- —G— GAS LINE (SIZE INDICATED)
- GAS LINE (RECORD INFORMATION)
- GAS LINE (UNDERGROUND LOCATING)
- G — GAS MANHOLE
- GAS VALVE
- GM — GAS METER
- —T— TELEPHONE LINE
- TELEPHONE LINE (RECORD INFORMATION)
- TELEPHONE LINE (UNDERGROUND LOCATING)
- STORM DRAIN BOX
- TS — TRAFFIC SIGNAL BOX

EXISTING TOPOGRAPHY

- PROPERTY LINE
- CENTERLINE
- EASEMENT
- PROPERTY CORNER FOUND AS NOTED
- PROPERTY CORNER NOTHING FOUND OR SET
- 123 — TEMPORARY BENCHMARK (SEE TBM LIST FOR INFO)
- SWALE OR DRAINAGE FLOW
- DRAINAGE FLOW
- FENCE (TYPE NOTED)
- TREE (SIZE/TYPE INDICATED)
- SLOPE
- 100 — CONTOUR
- CONCRETE SURFACE
- EDGE OF ASPHALT
- EDGE OF BUILDING
- SIGN
- POST OR BOLLARD
- 99.9 — GROUND ELEVATION
- 99.99 — HARD SURFACE ELEVATION

A.P.N.	012-0260-003
BENCHMARK NO.	317-D1A
ELEV.	23.226

HILTI NAIL LIGHT BASE NW CORNER FREEPORT BLVD. AND 8TH AVE

GRAPHIC SCALE

60' 0 30' 60' 120'

(IN FEET) 1 inch = 60 feet

NORTH

THIS DRAWING MAY HAVE BEEN ENLARGED OR REDUCED.

TBM LIST

NO.	DESCRIPTION	NORTH	EAST	ELEV.
15	CPS CHISELED "+"	5579.98	4167.10	13.44
19	CPS PICKER	5532.21	3866.61	12.80
23	CPS CHISELED "+"	5194.51	3382.23	12.22
28	CPS MAG NAIL	5620.79	3526.13	12.33
29	CPS PICKER	5809.67	3290.88	13.20
40	CPS CHISELED "+"	5250.98	4176.85	12.23
41	CPS CHISELED "+"	5022.56	3924.06	13.20
42	CPS CHISELED "+"	4917.02	4204.94	15.31
43	CPS CHISELED "+"	4916.27	4311.53	14.76
44	CPS CHISELED "+"	4837.28	4461.11	17.33
45	CPS CHISELED "+"	4841.39	4562.09	21.09
46	CPS CHISELED "+"	4766.17	4837.72	21.72
47	CPS CHISELED "+"	5522.47	4400.02	12.44
48	CPS CHISELED "+"	5455.62	4660.13	13.05
49	CPS CHISELED "+"	5400.06	4876.25	14.92
50	CPS CHISELED "+"	5334.28	5055.16	16.14

BASIS OF BEARING

ASSUMED

NOTE:

EXISTING UTILITIES BASED ON VISIBLE SURFACE STRUCTURES AND RECORD INFORMATION.

FEMA INFORMATION

THE SUBJECT PROPERTY IS LOCATED IN "ZONE X (SHADED)---AREA WITH REDUCED FLOOD RISK DUE TO LEVEE" PER FLOOD INSURANCE RATE MAP 06067C0190H DATED AUGUST 16, 2012.

ABBREVIATIONS

NOTE: NOT ALL ABBREVIATIONS MAY BE USED ON THESE PLANS.

AC	ASPHALTIC CONCRETE	FFE	FINISHED FLOOR ELEVATION	PP	POWER POLE
ACC.	ACCESSIBLE	FH	FIRE HYDRANT	PRKG	PARKING
ACU	AIR CONDITIONING UNIT	FL	FLOWLINE	PUE	PUBLIC UTILITY EASEMENT
AD	AREA DRAIN	FNC	FENCE	PV	PAVER'S
APN	ASSESSOR'S PARCEL NUMBER	FO	FIBER OPTIC	PVC	POLYVINYL CHLORIDE
ARV	AIR RELEASE VALVE	FS	FIRE SERVICE	R	RUBBER
BBALL	BASKETBALL POLE	G	GAS	RG	ROLLING GATE
BCM	BRASS CAP MONUMENT	GB	GRADE BREAK	RIM	MANHOLE RIM ELEVATION
BFP	BACK FLOW PREVENTER	GR	GRATE	ROW	RIGHT OF WAY
BL	BLOCK	GRB	GROUND ROD BOX	RR	RUBBER RAMP
BLDG	BUILDING	GROD	GROUND ROD	RW	RETAINING WALL
BOL	BOLLARD	GST	GATE STOP	RWD	REDWOOD
BOV	BLOW-OFF VALVE	GV	GAS VALVE	RWL	RAIN WATER LEADER
BR	BRICK	HB	HOSE BIBB	SB	SIGNAL BOX
B.W.F.	BARBED WIRE FENCE	HBD	HEADER BOARD	SD	STORM DRAIN
C	COMMUNICATION	HP	HIGH PRESSURE	SDMH	STORM DRAIN MANHOLE
C/L	CENTERLINE	HR	HANDRAIL	SIG	SIGNAL
CAB	CABINET	HVE	HIGH VOLTAGE ELECTRIC	SL	STREET LIGHT
CIP	CAPPED IRON PIPE	HWF	HOG WIRE FENCE	SLB	STREET LIGHT BOX
C.L.F.	CHAIN LINK FENCE	IC	IN CONCRETE	SS	SANITARY SEWER
CMP	CORRUGATED METAL PIPE	ICV	IRRIGATION CONTROL VALVE	SSCO	SANITARY SEWER CLEANOUT
CO	CLEANOUT	INV	PIPE INVERT ELEVATION	SSMH	SANITARY SEWER MANHOLE
COL	COLUMN	IRR	IRRIGATION	STL.	STEEL
CONC.	CONCRETE	JP	JOINT UTILITY POLE	T	TELEPHONE
COND	CONDENSATE	JT	JOINT TRENCH	TBALL	TETHER BALL POLE
CPF	CONTROL POINT FOUND	LNDG	LANDING	TBM	TEMPORARY BENCHMARK
CPS	CONTROL POINT SET	LVE	LOW VOLTAGE ELECTRIC	TC	TOP OF CURB
CS	CONCRETE SURFACE	M	METAL	TOW	TOP OF WALL
D	DEPTH	MH	MANHOLE	TP	TELEPHONE POLE
DDC	DOUBLE DETECTOR CHECK VALVE	MS	MOW STRIP	TRW	TOP OF RETAINING WALL
DF	DRINKING FOUNTAIN	MSC	METAL STORAGE CONTAINER	UG	UNDERGROUND
DG	DECOMPOSED GRANITE	MU	MULTIPLE	UNK	UNKNOWN
DI	DROP INLET	NTS	NOT TO SCALE	VBALL	VOLLEYBALL
DIA	DIAMETER	OH	OVERHEAD	W	WATER
DRWY	DRIVEWAY	OHANG	OVERHANG	WI	WITH
DS	DOWNSPOUT	OIP	OPEN IRON PIPE	W/O	WITHOUT
DWG	DRAWING	OSPH	OLD STEEL POST HOLE	WD.	WOOD
E	ELECTRIC	P/L	PROPERTY LINE	WF	WOOD FENCE
EP	EDGE OF PAVEMENT	PA	PLANTER AREA	W.I.F.	WROUGHT IRON FENCE
ESMT	EASEMENT	PB	PARKING BUMPER	W.R.F.	WOOD RAIL FENCE
EX	EXISTING	PED	PEDESTAL	XF	TRANSFORMER
FA	FIRE ALARM	PH	POSTHOLE	XWALK	CROSSWALK
FDC	FIRE DEPARTMENT CONNECTION	PIV	POST INDICATOR VALVE		

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REGISTERED PROFESSIONAL ENGINEER
ANTHONY J. TASSIANO
NO. C74698
STATE OF CALIFORNIA
12/07/2023

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AGENCY

TITLE
SURVEY INFORMATION SHEET

SHEET
VF001

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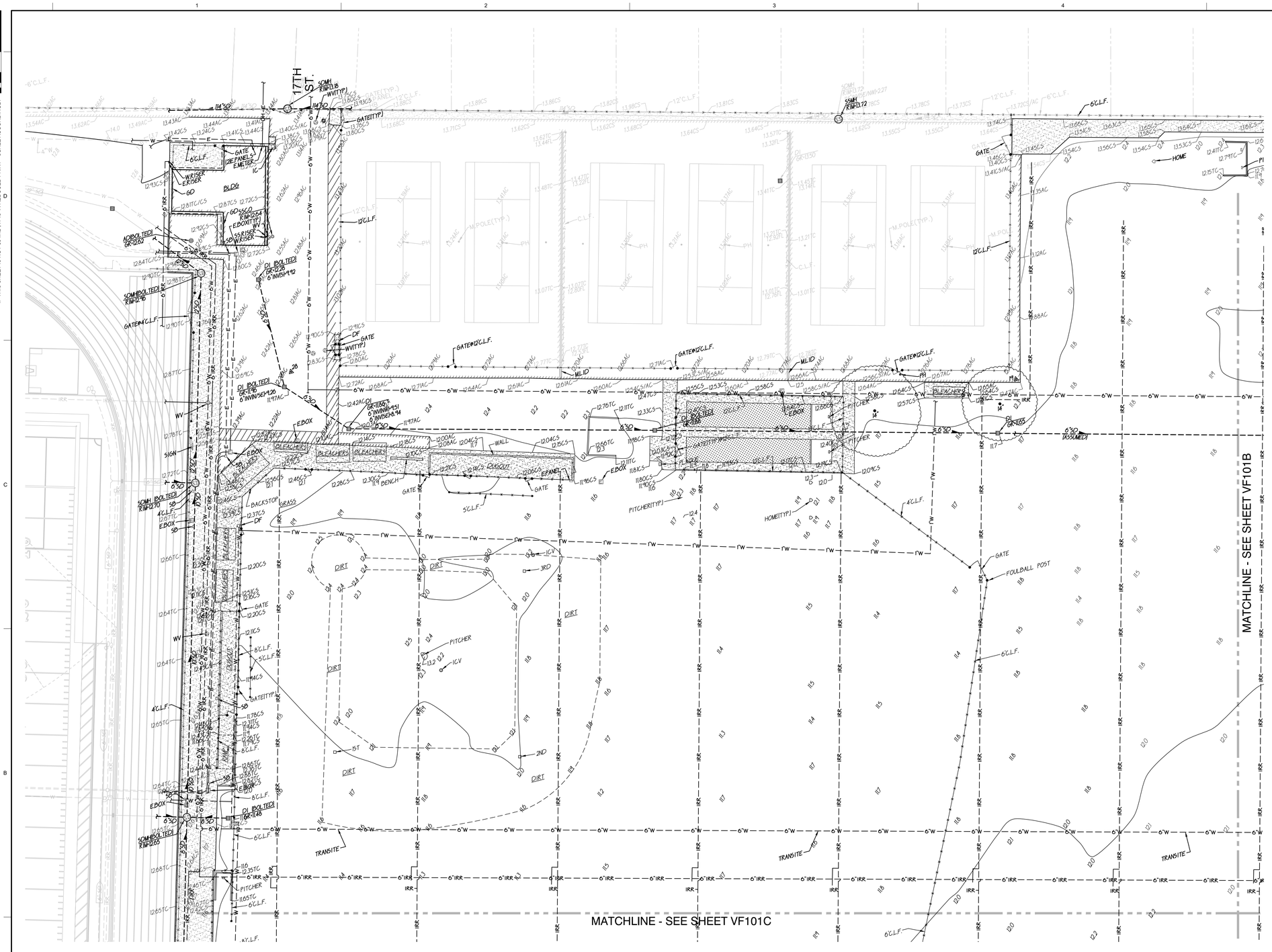

EXISTING TOPOGRAPHY

- PROPERTY LINE
- CENTERLINE
- EASEMENT
- PROPERTY CORNER FOUND AS NOTED
- PROPERTY CORNER NOTHING FOUND OR SET
- 123 TEMPORARY BENCHMARK (SEE TBM LIST FOR INFO)
- SWALE OR DRAINAGE FLOW
- DRAINAGE FLOW
- FENCE (TYPE NOTED)
- TREE (SIZE/TYPE INDICATED)
- SLOPE
- 100 CONTOUR
- CONCRETE SURFACE
- EDGE OF ASPHALT
- EDGE OF BUILDING
- SIGN
- POST OR BOLLARD
- 999 GROUND ELEVATION
- 999 HARD SURFACE ELEVATION

EXISTING UTILITIES

- 12"SD STORM DRAIN LINE (SIZE + DIRECTION OF FLOW)
- 12"SD STORM DRAIN LINE (RECORD INFORMATION)
- 12"SD STORM DRAIN LINE (UNDERGROUND LOCATING)
- SDMH STORM DRAIN MANHOLE
- STORM DRAIN CLEANOUT
- DROP INLET
- AREA DRAIN
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- SSMH SANITARY SEWER MANHOLE
- SANITARY SEWER CLEANOUT
- W WATER LINE (SIZE INDICATED)
- W WATER LINE (RECORD INFORMATION)
- W WATER LINE (UNDERGROUND LOCATING)
- WM WATER MANHOLE
- WATER VALVE
- WATER METER
- WB WATER BOX
- IRRIGATION CONTROL VALVE
- FIRE HYDRANT
- BACKFLOW PREVENTER
- SPRINKLER
- HOSE BIBB
- OH-E OVERHEAD ELECTRIC LINE
- E UNDERGROUND ELECTRIC LINE
- E UNDERGROUND ELECTRIC LINE (RECORD INFORMATION)
- E UNDERGROUND ELECTRIC LINE (UNDERGROUND LOCATING)
- EM ELECTRIC MANHOLE
- UTILITY POLE (WITH GUY WIRE)
- EM ELECTRIC METER
- EB ELECTRIC BOX
- STREET LIGHTING BOX
- OR LIGHT STANDARD
- SIGNAL LIGHT
- FLOOD LIGHT
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- G GAS LINE (SIZE INDICATED)
- G GAS LINE (RECORD INFORMATION)
- G GAS LINE (UNDERGROUND LOCATING)
- GM GAS MANHOLE
- GAS VALVE
- GM GAS METER
- T TELEPHONE LINE
- T TELEPHONE LINE (RECORD INFORMATION)
- T TELEPHONE LINE (UNDERGROUND LOCATING)
- SD STORM DRAIN BOX
- TS TRAFFIC SIGNAL BOX

BASIS OF BEARING

ASSUMED

NOTE:

EXISTING UTILITIES BASED ON VISIBLE SURFACE STRUCTURES AND RECORD INFORMATION.

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GRAPHIC SCALE

20' 0 10' 20' 40'

(IN FEET) 1 inch = 20 feet

NORTH

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AGENCY

TITLE
PARTIAL TOPOGRAPHIC SURVEY

AREA A

SHEET
VF101A

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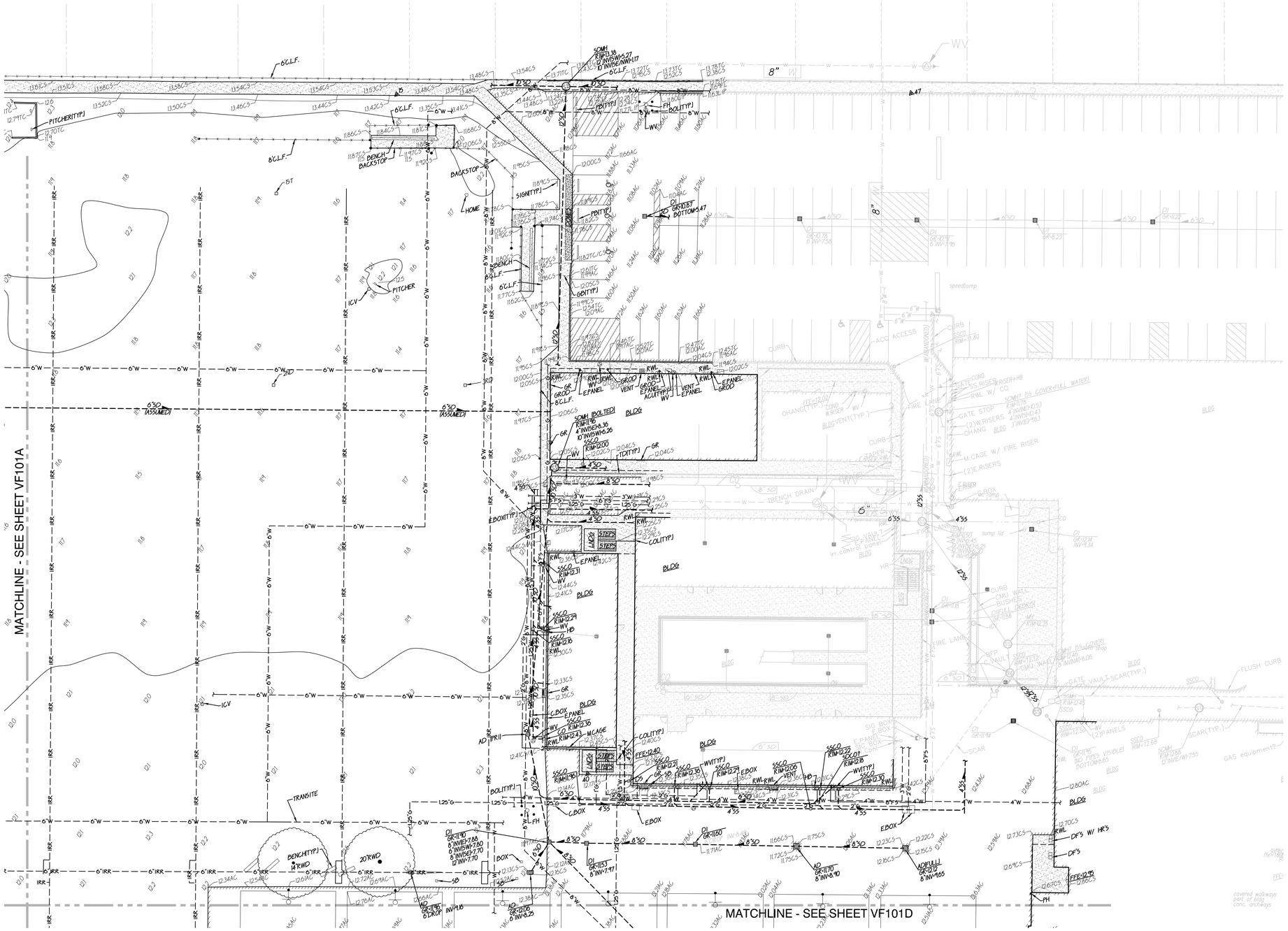

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W	= WATER MANHOLE
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AGENCY

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AREA B

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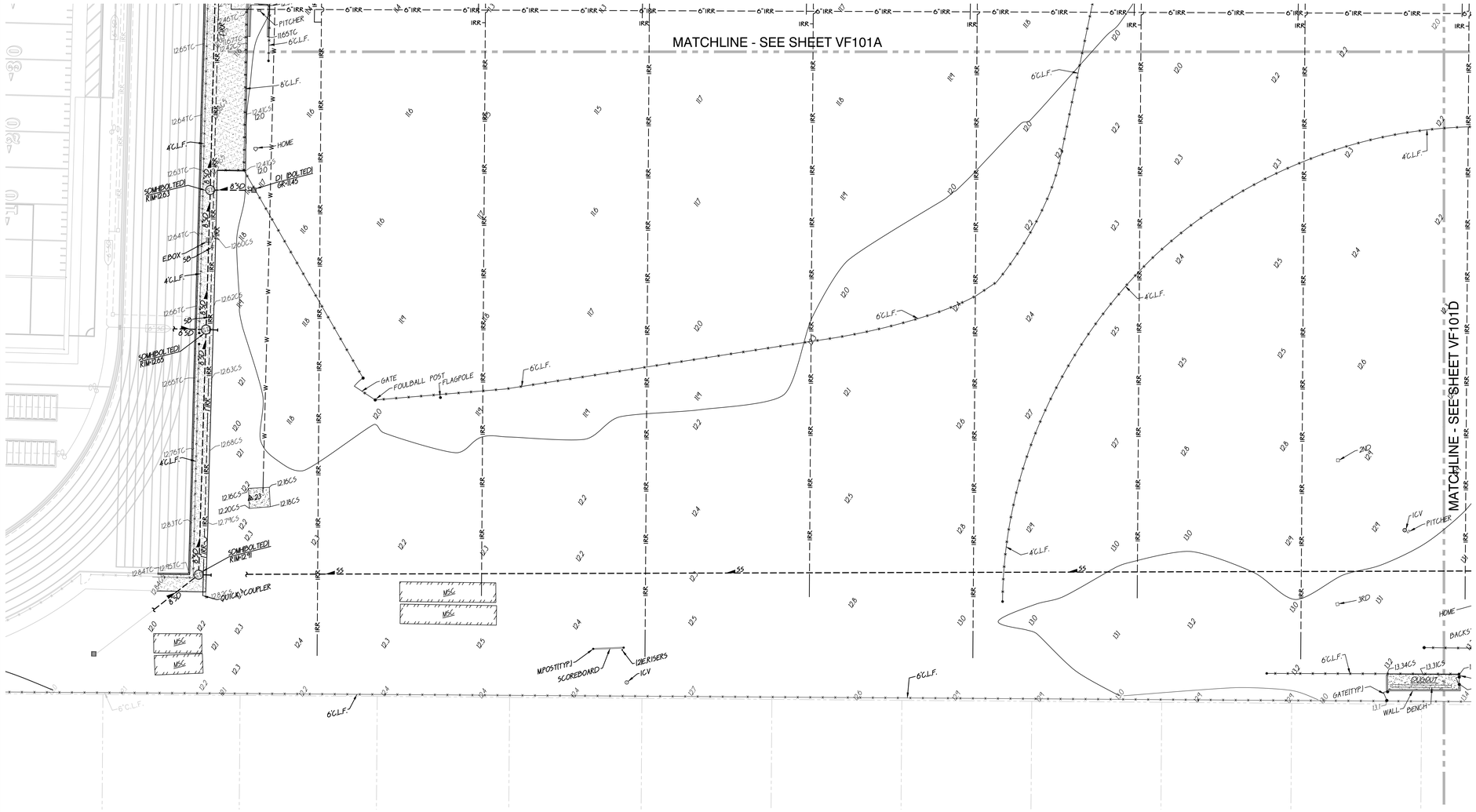

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AREA C

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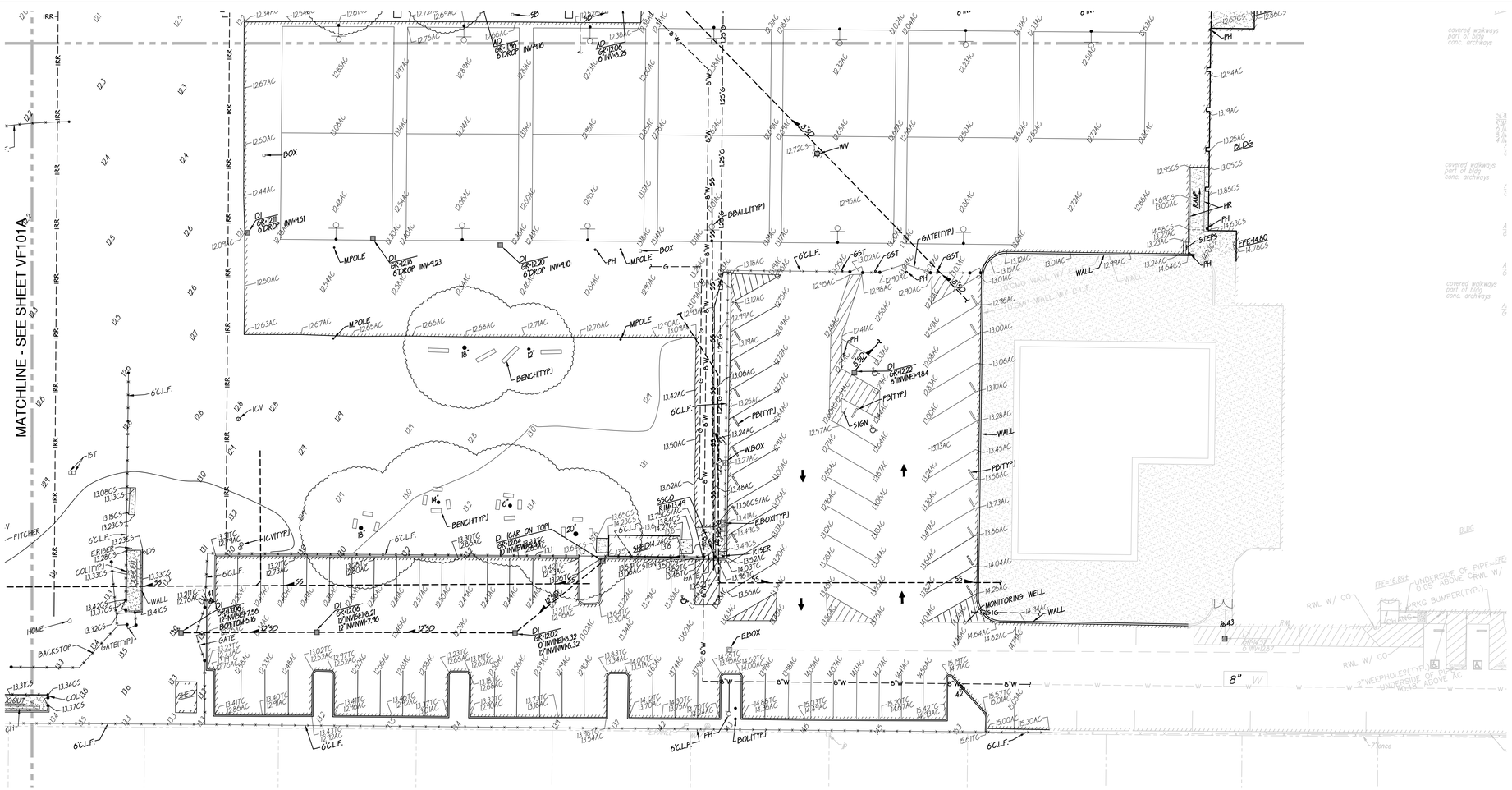

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AREA D

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VF101D

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Know what's below. Call before you dig.

EROSION NOTE:
REFER TO 2CKC001 FOR APPLICABLE EROSION PROTECTIVE MEASURES DURING DEMOLITION. PROVIDE APPROVED BMPS AT ALL LOCATIONS NECESSARY TO PREVENT SEDIMENT LADEN WATER FROM LEAVING THE SITE. REFER TO SWPPP FOR ADDITIONAL INFO.

GRAPHIC SCALE
20' 0 10' 20' 40'
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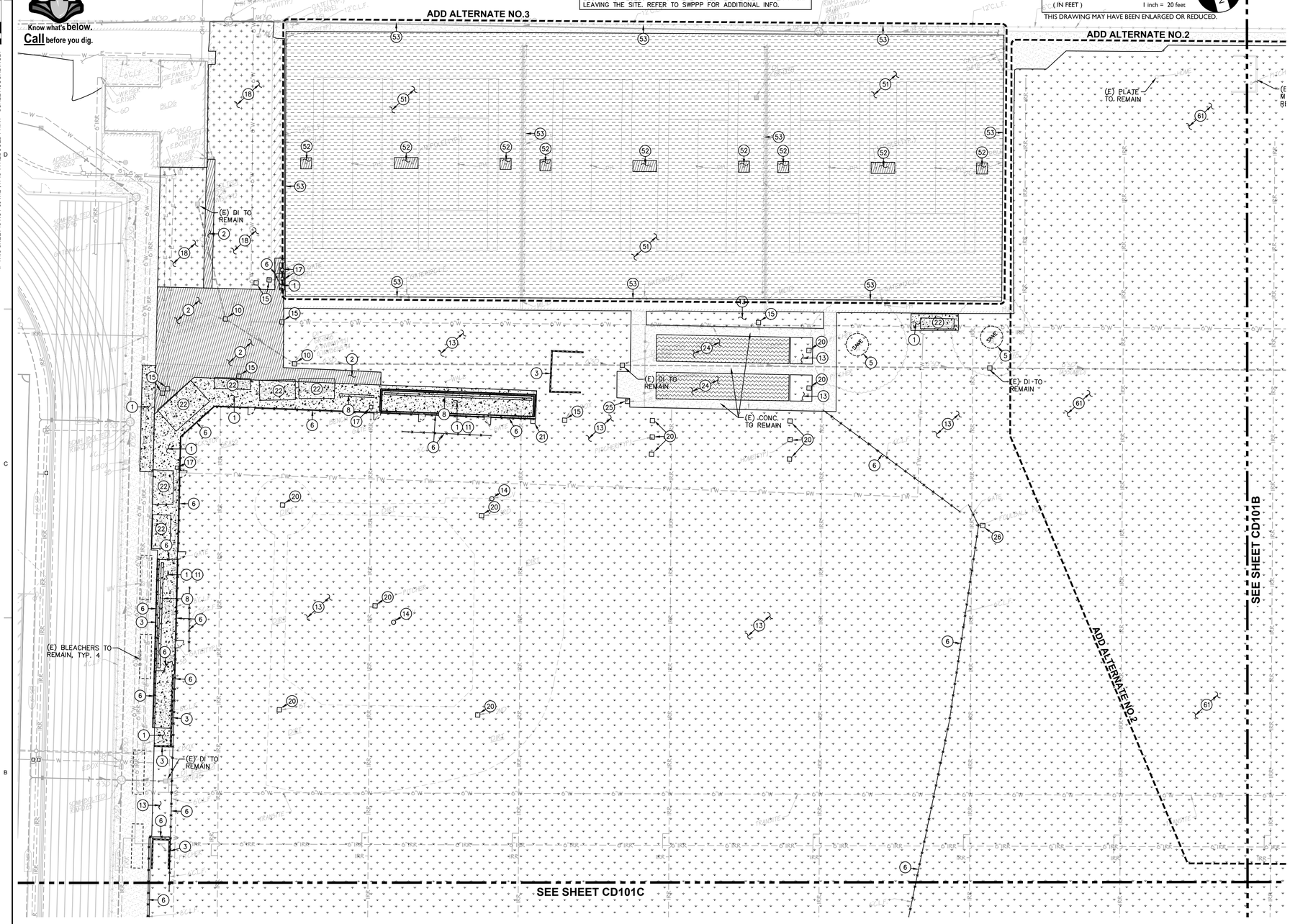

1 SURFACE DEMOLITION PLAN

SCALE 1" = 20'-0"

EXISTING UTILITIES AND LOCATING

VARIOUS UTILITIES EXIST BENEATH THE PROPOSED IMPROVEMENTS. CONTRACTOR SHALL AQUIRE UNDERGROUND LOCATOR TO LOCATE ALL UTILITIES IN ACCORDANCE WITH EARTHWORK SECTION 31 0000. APPROXIMATE LOCATIONS HAVE BEEN SHOWN ON THESE PLANS FROM RECORD SOURCES BUT FIELD CONDITIONS MAY VARY. CELLULAR CONDUITS REQUIRE EXTREME CAUTION WHEN WORKING AROUND. SHALLOW UTILITIES, MAY REQUIRE ADDITIONAL WORK AS OUTLINED IN THESE PLANS AND SPECIFICATIONS TO AVOID DAMAGE TO UTILITIES. CONTACT ARCHITECT IMMEDIATELY IF FOUND UTILITIES CONFLICT WITH NEW WORK.

UTILITY VERIFICATION NOTE

PRIOR TO THE START OF CONSTRUCTION, VERIFY AND POTHOLE ALL UTILITY POINTS OF CONNECTION FOR LOCATION, DEPTH, AND SIZE. IF CONFLICT IS FOUND, CONTACT THE ENGINEER IMMEDIATELY FOR DIRECTION.

CONCRETE SAWCUT NOTE

SAWCUTS AND SUBSEQUENT PATCH BACK OF CONCRETE WALKS, SHALL BE TO THE EXISTING CONCRETE JOINT BEYOND NEAREST THE LOCATION OF DEMOLITION AS SHOWN. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE, SHOW AND COORDINATE WITH EXISTING JOINTS, HOWEVER IF FIELD CONDITIONS ARE OTHERWISE, IT IS UNDERSTOOD TO REMOVE AND PATCH BACK TO THE NEAREST JOINTS BEYOND DEMOLITION.

IRRIGATION DEMOLITION

WITHIN LANDSCAPE AREAS TO BE DEMOLISHED THERE MAY BE EXISTING IRRIGATION LINES NOT SHOWN ON THIS PLAN. CONTRACTOR SHALL REMOVE LATERAL LINE AND HEADS ENCOUNTERED, PROVIDED THAT THE MAIN LINES AND CONTROL WIRES ONLY IF ROUTING IS KNOWN AND REMOVAL WILL NOT DEACTIVATE AN IRRIGATION SYSTEM INTENDED TO REMAIN. IF CONFLICT IS FOUND, CONTACT THE ENGINEER FOR DIRECTION.

WHEN IRRIGATION LINES ENTERING NEW WORK ARE CUT TEMPORARILY FOR CONSTRUCTION, EVEN IF THEY ARE TO BE RE-CONNECTED TO AT SOME POINT DURING CONSTRUCTION, SHALL BE CAPPED TO ALLOW UPSTREAM HEADS IN THAT SYSTEM ZONE TO OPERATE. CAPS SHALL BE REMOVED IF A RE-CONNECTION IS PLANNED.

CAL-GREEN - Waste Diversion

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.

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. Contractor shall Identify the construction and demolition waste materials to be diverted from disposal, to comply with 65% criteria listed above, by efficient usage, recycling, reuse on the project or salvage for future use or sale.
2. Contractor shall determines if construction and demolition waste materials will be sorted on-site (source-separated) or bulk mixed (single stream). Either method is the responsibility of the contractor.
3. Contractor shall Identify diversion facilities where construction and demolition waste material collected will be taken. Transport to such facilities is contractors responsibility.
4. Contractor shall record and provide record of the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.

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.

Contractor shall make the determination if the construction and demolition waste material will be diverted by a waste management company. Contractor shall make any and all arrangements with waste management company for pickup of materials.

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.

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.

CAL-GREEN - Waste Diversion Documentation Required

(Ref Calgreen 5.408.1.4)
Contractor shall prepare and provide documentation to the enforcing agency which demonstrates compliance with Calgreen 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/CALGreen. 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).

CAL-GREEN - Excavated Soil & Land Clearing

5.408.3 Excavated soil and land clearing debris. 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed.

Exception: Reuse, either on-or off-site, of vegetation or soil contaminated by disease or pest infestation.

Notes:
1. If contamination by disease or pest infestation is suspected, contact the County Agricultural Commissioner and follow its direction for recycling or disposal of the material. (www.cdfa.ca.gov/exec/county/county_contacts.html)
2. For a map of known pest and/or disease quarantine zones, consult with the California Department of Food and Agriculture. (www.cdfa.ca.gov)

ADD ALTERNATE NO.1

51. CRACK FILL AND PATCH AND REPAIR EXISTING ASPHALT PAVING FOR NEW TENNIS COURT SURFACING.
52. SAWCUT AND REMOVE EXISTING ASPHALT PAVING AND BASE AGGREGATE AND EXISTING TENNIS COURT NETTING POSTS AND FOOTINGS TO PROVIDE FOR NEW CONSTRUCTION. SAWCUTS SHALL BE NEAT AND STRAIGHT. MAINTAIN CLEAN STRAIGHT CUT EDGE UNTIL NEW PAVING PLACED, OR NEW CUTS WILL BE REQUIRED.
53. REMOVE EXISTING FENCING MESH AND ALL ATTACHMENT HARDWARE FROM EXISTING TENNIS COURT PERIMETER AND INTERIOR FENCES AND GATES. PAINT EXISTING POSTS, AND GATE FRAMES AND ASSEMBLIES AND PLACE BACK NEW BLACK VINYL COATED CHAIN LINK MESH AND NEW BLACK ATTACHMENT HARDWARE, SEE LANDSCAPE PLANS.

ADD ALTERNATE NO.2

AND/OR

LEGEND | # | DEMOLITION NOTES

61. REMOVE ALL PLANTS, SHRUBS, EXISTING VEGETATION, INFIELD MIX AND OTHER LANDSCAPE TYPE SURFACING. REFER TO EARTHWORK SPECIFICATIONS FOR ADDITIONAL SITE CLEARING REQUIREMENTS. SEE LANDSCAPE PLANS FOR IRRIGATION DEMOLITION AND INSTALLATION. SEE GENERAL IRRIGATION NOTE, THIS SHEET.
62. REMOVE EXISTING BASES AND PICTHING MOUNDS AND ANY CONCRETE FOOTINGS. DISTRICT MAY SALVAGE, SEE NOTE 7.

DEMOLITION GENERAL NOTES

1. IN THE EVENT THAT ANY UNUSUAL CONDITIONS NOT COVERED BY THE GEOTECHNICAL INVESTIGATION REPORT OR ARE ENCOUNTERED DURING GRADING OPERATIONS THE GEOTECHNICAL ENGINEER AND THE ENGINEER SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTIONS.
2. NO BURNING OR BLASTING SHALL BE PERMITTED.
3. ADDITIONAL DEMOLITION INFORMATION MAY BE SHOWN ON THE GRADING, DRAINAGE, AND UTILITY PLANS, AND THOSE PLANS PREPARED BY OTHER DISCIPLINES FOR THIS PROJECT.
4. ALL DEMOLISHED ITEMS SHALL BE DISPOSED OF OFFSITE AT A SUITABLE, LEGAL, DUMP SITE OR OTHER FACILITY.
5. ALL DISPOSED OF MATERIALS SHALL BE RECYCLED IF POSSIBLE.
6. THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN IN THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS, AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, WARREN CONSULTING ENGINEERS CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES, NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL NOTIFY THE DISTRICT TWO (2) WORKING DAYS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK IN ORDER TO VERIFY TO THE GREATEST EXTENT POSSIBLE THE EXISTING UTILITY LINES, CONFLICTS AND PROPOSED UTILITY CONNECTION POINTS.
7. THE SCHOOL DISTRICT SHALL HAVE SALVAGE RIGHTS TO ANY DEMOLISHED ITEMS SHOWN HEREON. THE CONTRACTOR SHALL GIVE THE DISTRICT NOTICE 7 DAYS PRIOR TO THE START OF DEMOLITION. THE DISTRICT SHALL MOVE ANY RETAINED ITEMS OUT OF THE CONTRACTORS WORK AREA, UNLESS ANOTHER ARRANGEMENT IS MADE WITH THE CONTRACTOR. ANY REMAINING ITEMS BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE. ANY ITEMS NOT SHOWN FOR REMOVAL SHALL REMAIN AND SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION TO A REASONABLE EXTENT.
8. EXISTING UTILITY STRUCTURES IN AREAS OF NEW PAVING SHALL BE REMOVED AND REINSTALLED AT NEW GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.
9. ITEMS OUTSIDE THE LIMITS OF DEMOLITION SHALL REMAIN AND BE PROTECTED FROM DAMAGE DURING CONSTRUCTION.
10. CONTRACTOR SHALL COMPLY WITH CHAPTER 33 OF THE 2022 CFC, "FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION" AT ALL TIMES DURING CONSTRUCTION.
11. CONTRACTOR SHALL HIRE A UTILITY LOCATING COMPANY AND SHALL SCAN THE ENTIRE AREA WITHIN THE LIMITS OF NEW WORK. ALL UTILITIES LOCATED SHALL BE MARKED AND PROTECTED DURING THE LIMING OPERATIONS AS WELL AS ANY EXCAVATING TASKS. ANY LOCATED UTILITY DAMAGED WITHIN THE LIMITS OF WORK WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR.
12. ALL DEMOLITION SHALL BE APPROPRIATELY SUPPORTED AND REINFORCED DURING REMOVAL TO PREVENT INJURY FROM FALLING, PROJECTILE, OR OTHERWISE MOVING DEBRIS OR OTHER DELETERIOUS MATERIAL. ONSITE SAFETY WITHIN THE LIMITS OF WORK IS THE CONTRACTORS SOLE RESPONSIBILITY.

DEMOLITION NOTES

AND/OR

LEGEND | # | DEMOLITION NOTES

1. REMOVE EXISTING CONCRETE PAVING AND BASE AGGREGATES (IF EXIST). WHERE SAWCUTS ARE NECESSARY, THEY SHALL BE A NEAT STRAIGHT LINE. CUT SHALL BE MADE AT NEAREST EXISTING JOINT TO LOCATION SHOWN.
2. SAWCUT AND REMOVE EXISTING ASPHALT PAVING AND BASE AGGREGATE TO PROVIDE FOR NEW CONSTRUCTION. SAWCUTS SHALL BE NEAT AND STRAIGHT. MAINTAIN CLEAN STRAIGHT CUT EDGE UNTIL NEW PAVING PLACED, OR NEW CUTS WILL BE REQUIRED.
3. REMOVE EXISTING CONCRETE CURB/CURB GUTTER.
4. REMOVE EXISTING TREE AND ROOTS. IF SMALL ROOTS OR ROOT FRAGMENTS REMAIN (>1/2" IN DIA.), CONTRACTOR TO REMOVE BY HAND IF NECESSARY. BACKFILL VOID PER GRADING SPECIFICATIONS. IT IS HIGHLY RECOMMENDED WET AND DRY UTILITIES BE READY TO SHUTOFF SHOULD A ROOT DAMAGE A LINE DURING TREE REMOVAL.
5. EXISTING TREE TO REMAIN AND BE PROTECTED FROM DAMAGE. PROVIDE PROTECTIVE FENCING IF NEEDED. WHEN IMMEDIATELY ADJACENT TO EQUIPMENT TRAFFIC, STRAP 2x4'S VERTICALLY AT 8" O.C. AROUND TRUNK, FROM 12" ABOVE GRADE TO 6' FEET ABOVE GRADE TO PROTECT TREE BARK FROM EQUIPMENT DAMAGE.
6. REMOVE EXISTING FENCING AND OR GATES AS SHOWN. REMOVAL TO INCLUDE ALL POSTS AND CONCRETE BASES. BACKFILL WITH CLASS II AB IN 6" LIFTS, EACH COMPACTED TO 95% FENCE TYPES MAY VARY.
7. REMOVE AND DISPOSE OF EXISTING CONCRETE WHEEL STOP. WHEEL STOPS IN GOOD CONDITION WITH NO CHIPS OR CRACKS MAY BE SALVAGED AND RE-USED.
8. REMOVE EXISTING BENCHES OR TABLE TO INCLUDE CONCRETE FOOTINGS. BACKFILL WITH CLASS II AB IN 6" LIFTS, EACH COMPACTED TO 95%.
9. REMOVE EXISTING PIPE BOLLARDS AND CONCRETE FOOTINGS. BACKFILL WITH CLASS II AB IN 6" LIFTS, EACH COMPACTED TO 95% OR PER EARTHWORK SPECS.
10. REMOVE EXISTING DRAIN INLET, SEE UTILITY DEMOLITION PLAN FOR ADDITIONAL INFORMATION.
11. RELOCATE EXISTING SHED TO ALLOW FOR NEW WORK. PLACE AT NEW LOCATION ONSITE PER DISTRICT DIRECTION. ALL CONTAINERS SHALL BE MIN. 20' FROM EXISTING BUILDINGS.
12. DISCONNECT, DISMANTLE AND REMOVE EXISTING DUGOUT STRUCTURE TO INCLUDE ALL STRUCTURE, WALLS, SLABS AND FOUNDATIONS.
13. REMOVE ALL PLANTS, SHRUBS, EXISTING VEGETATION, INFIELD MIX AND OTHER LANDSCAPE TYPE SURFACING. REFER TO EARTHWORK SPECIFICATIONS FOR ADDITIONAL SITE CLEARING REQUIREMENTS. SEE LANDSCAPE PLANS FOR IRRIGATION DEMOLITION AND INSTALLATION. SEE GENERAL IRRIGATION NOTE, THIS SHEET.
14. REMOVE EXISTING IRRIGATION VALVES, LINES WIRES, ETC. REFER TO LANDSCAPE AND IRRIGATION PLANS FOR ADDITIONAL INFO.
15. REMOVE EXISTING UTILITY VAULT/BOX. PROTECT UTILITIES FROM DAMAGE. PROVIDE NEW AND ADJUST TO FINISHED GRADE. SEE GRADING PLAN AND UTILITY PLANS FOR ADDITIONAL INFO.
16. REMOVE EXISTING UTILITY BOX. DISCONNECT AND REMOVE ASSOCIATED UTILITIES. SEE UTILITY PLANS FOR ADDITIONAL INFO.
17. REMOVE EXISTING DRINKING FOUNTAIN. SEE UTILITY DEMOLITION PLAN FOR ADDITIONAL INFO.
18. GRIND EXISTING ASPHALT 1.5" DEEP TO ALLOW FOR NEW ASPHALT OVERLAY. SEE GRADING AND PAVING PLAN FOR ADDITIONAL INFORMATION.
19. CRACK FILL AND PATCH EXISTING AC PAVING TO ALLOW FOR NEW SEALCOAT PER SPECIFICATIONS. SEE PAVING PLAN. PAINT ALL EXISTING STRIPING BLACK WITH MIN. 2 COATS COMMERCIAL GRADE BLACK TRAFFIC PAINT.
20. REMOVE EXISTING BASES AND PICTHING MOUNDS AND ANY CONCRETE FOOTINGS. DISTRICT MAY SALVAGE, SEE NOTE 7.
21. REMOVE EXISTING ELECTRICAL PANEL. REMOVE CONDUITS BACK TO SERVICE POINT OR NEAREST UTILITY BOX TO REMAIN. COIL WIRES AND LEAVE IN BOX. SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
22. REMOVE AND RELOCATE EXISTING BLEACHERS. SEE ARCH. PLANS FOR LOCATIONS AND ADDITIONAL INFO.
23. REMOVE AND RELOCATE EXISTING BENCHES. SEE ARCH. PLANS FOR LOCATIONS AND ADDITIONAL INFO.
24. REMOVE EXISTING SYNTHETIC TURF. IF EXISTING NAILERS ARE IN GOOD SHAPE AND CAN BE RE-USED, LEAVE IN PLACE, OTHERWISE, REMOVE NAILERS AND SEE GRADING PLAN FOR NEW.
25. SALVAGE PLAQUE FOR RE-INSTALLATION. SEE ARCH. PLANS FOR NEW LOCATION.
26. REMOVE EXISTING FOUL BALL POLE AND FOOTING. BACKFILL WITH CLASS II AB IN 6" LIFTS, EACH COMPACTED TO 95%. FENCE TYPES MAY VARY.
27. REMOVE EXISTING SCOREBOARD AND FOOTINGS. BACKFILL WITH CLASS II AB IN 6" LIFTS, EACH COMPACTED TO 95% FENCE TYPES MAY VARY.

LIONÄKIS
2025 Nineteenth Street
Sacramento, CA 95818
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CONSULTANT
WCE
WARREN CONSULTING ENGINEERS, INC.
1117 WINDFIELD WAY, SUITE 110
EL DORADO HILLS, CA 95762 | (916) 985-1870
REGISTERED PROFESSIONAL ENGINEER ANTHONY J TASSANO NO. C74698 STATE OF CALIFORNIA 12/07/2023

SEAL

PROJECT
MC CLATCHY HIGH SCHOOL ATHLETIC FIELD RENOVATION

3066 FREEPORT BLVD.
SACRAMENTO, CA 95818

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

3500 FLORIN ROAD, SACRAMENTO, CA 95823

ISSUED

MARK	DATE	DESCRIPTION
-	8/18/2023	DSA SUBMITTAL
	12/7/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

LIONAKIS PROJECT NO:	023040
DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	02-121610
COPYRIGHT:	LIONAKIS 2023

AGENCY

TITLE
SURFACE DEMOLITION PLAN

AREA A

SHEET
CD101A

IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY

0 1/4" 1" 2"

EROSION NOTE:
REFER TO 2CK001 FOR APPLICABLE EROSION PROTECTIVE MEASURES DURING DEMOLITION. PROVIDE APPROVED BMPS AT ALL LOCATIONS NECESSARY TO PREVENT SEDIMENT LADEN WATER FROM LEAVING THE SITE. REFER TO SWPPP FOR ADDITIONAL INFO.

GRAPHIC SCALE
20' 0 10' 20' 40'
(IN FEET) 1 inch = 20 feet
NORTH
THIS DRAWING MAY HAVE BEEN ENLARGED OR REDUCED.

811 Know what's below. Call before you dig.

ADD ALTERNATE NO.2

SEE SHEET CD101A

SEE SHEET CD101D

ADD ALTERNATE NO.2

(E) PITCH MOUND TO REMAIN

ALL THIS FENCING AND BACKSTOPS TO REMAIN

CONCRETE TO REMAIN

FENCING TO REMAIN

(E) DI TO REMAIN

(E) AD TO REMAIN

SAWC

1 SURFACE DEMOLITION PLAN

SCALE 1" = 20'-0"

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LEGEND | # | DEMOLITION NOTES

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2. SAWCUT AND REMOVE EXISTING ASPHALT PAVING AND BASE AGGREGATE TO PROVIDE FOR NEW CONSTRUCTION. SAWCUTS SHALL BE NEAT AND STRAIGHT. MAINTAIN CLEAN STRAIGHT CUT EDGE UNTIL NEW PAVING PLACED, OR NEW CUTS WILL BE REQUIRED.
3. REMOVE EXISTING CONCRETE CURB/CURB GUTTER.
4. REMOVE EXISTING TREE AND ROOTS. IF SMALL ROOTS OR ROOT FRAGMENTS REMAIN (>1/2" IN DIA.), CONTRACTOR TO REMOVE BY HAND IF NECESSARY. BACKFILL VOID PER GRADING SPECIFICATIONS. IT IS HIGHLY RECOMMENDED WET AND DRY UTILITIES BE READY TO SHUTOFF SHOULD A ROOT DAMAGE A LINE DURING TREE REMOVAL.
5. EXISTING TREE TO REMAIN AND BE PROTECTED FROM DAMAGE. PROVIDE PROTECTIVE FENCING IF NEEDED. WHEN IMMEDIATELY ADJACENT TO EQUIPMENT TRAFFIC, STRAP 2x4'S VERTICALLY AT 8" O.C. AROUND TRUNK, FROM 12" ABOVE GRADE TO 6' FEET ABOVE GRADE TO PROTECT TREE BARK FROM EQUIPMENT DAMAGE.
6. REMOVE EXISTING FENCING AND OR GATES AS SHOWN. REMOVAL TO INCLUDE ALL POSTS AND CONCRETE BASES. BACKFILL WITH CLASS II AB IN 6" LIFTS, EACH COMPACTED TO 95% FENCE TYPES MAY VARY.
7. REMOVE AND DISPOSE OF EXISTING CONCRETE WHEEL STOP. WHEEL STOPS IN GOOD CONDITION WITH NO CHIPS OR CRACKS MAY BE SALVAGED AND RE-USED.
8. REMOVE EXISTING BENCHES OR TABLE TO INCLUDE CONCRETE FOOTINGS. BACKFILL WITH CLASS II AB IN 6" LIFTS, EACH COMPACTED TO 95%.
9. REMOVE EXISTING PIPE BOLLARDS AND CONCRETE FOOTINGS. BACKFILL WITH CLASS II AB IN 6" LIFTS, EACH COMPACTED TO 95% OR PER EARTHWORK SPECS.
10. REMOVE EXISTING DRAIN INLET, SEE UTILITY DEMOLITION PLAN FOR ADDITIONAL INFORMATION.
11. RELOCATE EXISTING SHED TO ALLOW FOR NEW WORK. PLACE AT NEW LOCATION ONSITE PER DISTRICT DIRECTION. ALL CONTAINERS SHALL BE MIN. 20' FROM EXISTING BUILDINGS.
12. DISCONNECT, DISMANTLE AND REMOVE EXISTING DUGOUT STRUCTURE TO INCLUDE ALL STRUCTURE, WALLS, SLABS AND FOUNDATIONS.
13. REMOVE ALL PLANTS, SHRUBS, EXISTING VEGETATION, INFIELD MIX AND OTHER LANDSCAPE TYPE SURFACING. REFER TO EARTHWORK SPECIFICATIONS FOR ADDITIONAL SITE CLEARING REQUIREMENTS. SEE LANDSCAPE PLANS FOR IRRIGATION DEMOLITION AND INSTALLATION. SEE GENERAL IRRIGATION NOTE, THIS SHEET.
14. REMOVE EXISTING IRRIGATION VALVES, LINES WIRES, ETC. REFER TO LANDSCAPE AND IRRIGATION PLANS FOR ADDITIONAL INFO.
15. REMOVE EXISTING UTILITY VAULT/BOX. PROTECT UTILITIES FROM DAMAGE. PROVIDE NEW AND ADJUST TO FINISHED GRADE. SEE GRADING PLAN AND UTILITY PLANS FOR ADDITIONAL INFO.
16. REMOVE EXISTING UTILITY BOX. DISCONNECT AND REMOVE ASSOCIATED UTILITIES. SEE UTILITY PLANS FOR ADDITIONAL INFO.
17. REMOVE EXISTING DRINKING FOUNTAIN. SEE UTILITY DEMOLITION PLAN FOR ADDITIONAL INFO.
18. GRIND EXISTING ASPHALT 1.5" DEEP TO ALLOW FOR NEW ASPHALT OVERLAY. SEE GRADING AND PAVING PLAN FOR ADDITIONAL INFORMATION.
19. CRACK FILL AND PATCH EXISTING AC PAVING TO ALLOW FOR NEW SEALCOAT PER SPECIFICATIONS. SEE PAVING PLAN. PAINT ALL EXISTING STRIPING BLACK WITH MIN. 2 COATS COMMERCIAL GRADE BLACK TRAFFIC PAINT.
20. REMOVE EXISTING BASES AND PICTHING MOUNDS AND ANY CONCRETE FOOTINGS. DISTRICT MAY SALVAGE, SEE NOTE 7.
21. REMOVE EXISTING ELECTRICAL PANEL. REMOVE CONDUITS BACK TO SERVICE POINT OR NEAREST UTILITY BOX TO REMAIN. COIL WIRES AND LEAVE IN BOX. SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
22. REMOVE AND RELOCATE EXISTING BLEACHERS. SEE ARCH. PLANS FOR LOCATIONS AND ADDITIONAL INFO.
23. REMOVE AND RELOCATE EXISTING BENCHES. SEE ARCH. PLANS FOR LOCATIONS AND ADDITIONAL INFO.
24. REMOVE EXISTING SYNTHETIC TURF. IF EXISTING NAILERS ARE IN GOOD SHAPE AND CAN BE RE-USED, LEAVE IN PLACE, OTHERWISE, REMOVE NAILERS AND SEE GRADING PLAN FOR NEW.
25. SALVAGE PLAQUE FOR RE-INSTALLATION. SEE ARCH. PLANS FOR NEW LOCATION.
26. REMOVE EXISTING FOUL BALL POLE AND FOOTING. BACKFILL WITH CLASS II AB IN 6" LIFTS, EACH COMPACTED TO 95% FENCE TYPES MAY VARY.
27. REMOVE EXISTING SCOREBOARD AND FOOTINGS. BACKFILL WITH CLASS II AB IN 6" LIFTS, EACH COMPACTED TO 95% FENCE TYPES MAY VARY.

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REGISTERED PROFESSIONAL ENGINEER ANTHONY J TASSANO NO. C74698 STATE OF CALIFORNIA 12/07/2023

SEAL

PROJECT
MC CLATCHY HIGH SCHOOL ATHLETIC FIELD RENOVATION

3066 FREEPORT BLVD.
SACRAMENTO, CA 95818

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

3500 FLORIN ROAD, SACRAMENTO, CA 95823

ISSUED

MARK	DATE	DESCRIPTION
-	8/18/2023	DSA SUBMITTAL
	12/7/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

LIONAKIS PROJECT NO:	023040
DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	02-121610
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AGENCY

TITLE
SURFACE DEMOLITION PLAN

AREA B

SHEET
CD101B

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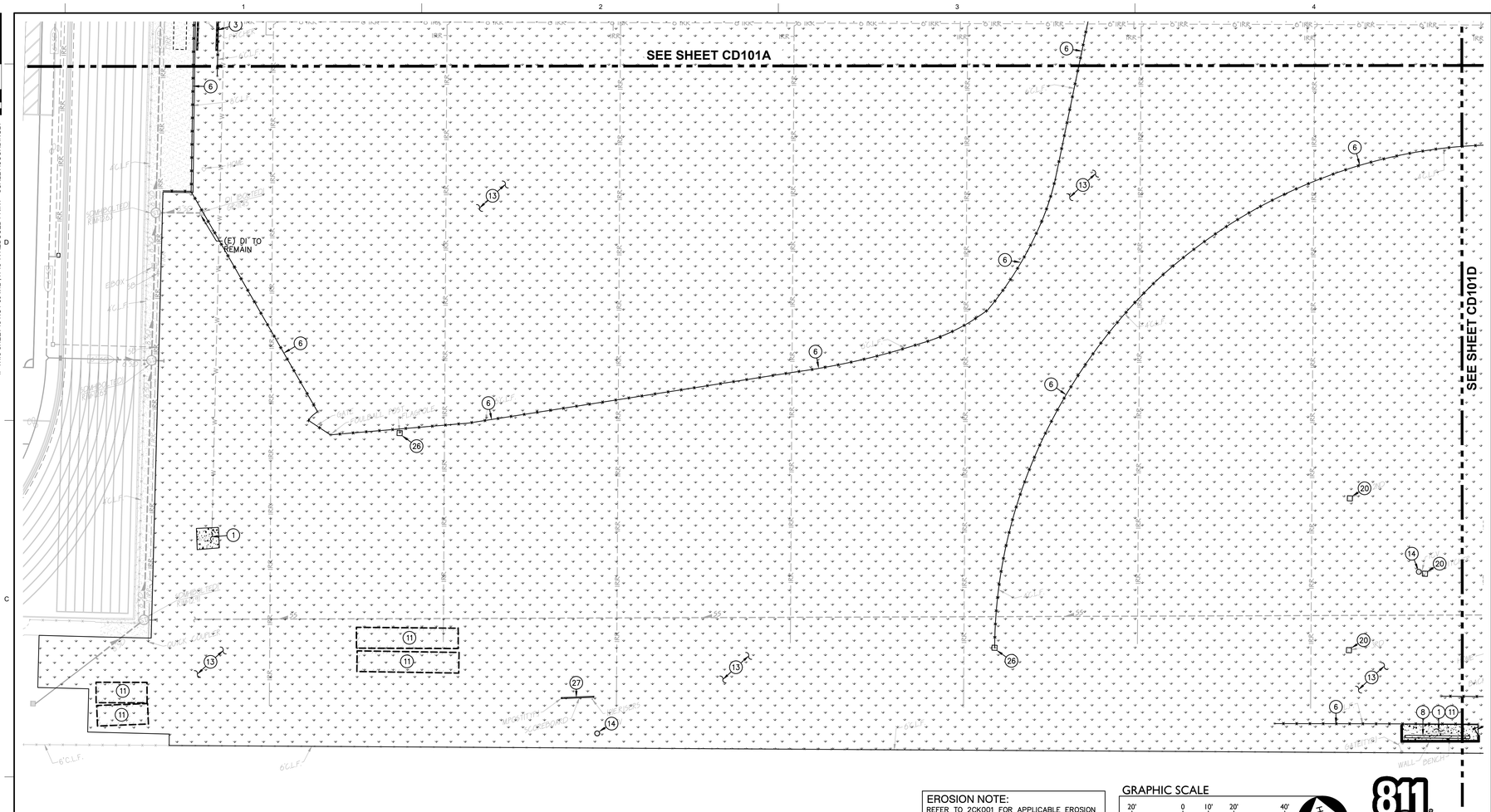

1 SURFACE DEMOLITION PLAN

SCALE 1" = 20'-0"

EXISTING UTILITIES AND LOCATING

VARIOUS UTILITIES EXIST BENEATH THE PROPOSED IMPROVEMENTS. CONTRACTOR SHALL AQUIRE UNDERGROUND LOCATOR TO LOCATE ALL UTILITIES IN ACCORDANCE WITH EARTHWORK SECTION 31 0000. APPROXIMATE LOCATIONS HAVE BEEN SHOWN ON THESE PLANS FROM RECORD SOURCES BUT FIELD CONDITIONS MAY VARY. CELLULAR CONDUITS REQUIRE EXTREME CAUTION WHEN WORKING AROUND. SHALLOW UTILITIES, MAY REQUIRE ADDITIONAL WORK AS OUTLINED IN THESE PLANS AND SPECIFICATIONS TO AVOID DAMAGE TO UTILITIES. CONTACT ARCHITECT IMMEDIATELY IF FOUND UTILITIES CONFLICT WITH NEW WORK.

UTILITY VERIFICATION NOTE

PRIOR TO THE START OF CONSTRUCTION, VERIFY AND POTHOLE ALL UTILITY POINTS OF CONNECTION FOR LOCATION, DEPTH, AND SIZE. IF CONFLICT IS FOUND, CONTACT THE ENGINEER IMMEDIATELY FOR DIRECTION.

CONCRETE SAWCUT NOTE

SAWCUTS AND SUBSEQUENT PATCH BACK OF CONCRETE WALKS, SHALL BE TO THE EXISTING CONCRETE JOINT BEYOND NEAREST THE LOCATION OF DEMOLITION AS SHOWN. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE, SHOW AND COORDINATE WITH EXISTING JOINTS, HOWEVER IF FIELD CONDITIONS ARE OTHERWISE, IT IS UNDERSTOOD TO REMOVE AND PATCH BACK TO THE NEAREST JOINTS BEYOND DEMOLITION.

IRRIGATION DEMOLITION

WITHIN LANDSCAPE AREAS TO BE DEMOLISHED THERE MAY BE EXISTING IRRIGATION LINES NOT SHOWN ON THIS PLAN. CONTRACTOR SHALL REMOVE LATERAL LINE AND HEADS ENCOUNTERED, PROVIDED THAT THE MAIN LINES AND CONTROL WIRES ONLY IF ROUTING IS KNOWN AND REMOVAL WILL NOT DEACTIVATE AN IRRIGATION SYSTEM INTENDED TO REMAIN. IF CONFLICT IS FOUND, CONTACT THE ENGINEER FOR DIRECTION.

WHEN IRRIGATION LINES ENTERING NEW WORK ARE CUT TEMPORARILY FOR CONSTRUCTION, EVEN IF THEY ARE TO BE RE-CONNECTED TO AT SOME POINT DURING CONSTRUCTION, SHALL BE CAPPED TO ALLOW UPSTREAM HEADS IN THAT SYSTEM ZONE TO OPERATE. CAPS SHALL BE REMOVED IF A RE-CONNECTION IS PLANNED.

CAL-GREEN - Waste Diversion

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.

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. Contractor shall identify the construction and demolition waste materials to be diverted from disposal, to comply with 65% criteria listed above, by efficient usage, recycling, reuse on the project or salvage for future use or sale.
2. Contractor shall determines if construction and demolition waste materials will be sorted on-site (source-separated) or bulk mixed (single stream). Either method is the responsibility of the contractor.
3. Contractor shall identify diversion facilities where construction and demolition waste material collected will be taken. Transport to such facilities is contractors responsibility.
4. Contractor shall record and provide record of the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.

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.

Contractor shall make the determination if the construction and demolition waste material will be diverted by a waste management company. Contractor shall make any and all arrangements with waste management company for pickup of materials.

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.

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.

CAL-GREEN - Waste Diversion Documentation Required

(Ref Calgreen 5.408.1.4)
Contractor shall prepare and provide documentation to the enforcing agency which demonstrates compliance with Calgreen 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/CALGreen. 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).

CAL-GREEN - Excavated Soil & Land Clearing

5.408.3 Excavated soil and land clearing debris. 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed.

Exception: Reuse, either on-or off-site, of vegetation or soil contaminated by disease or pest infestation.

Notes:

1. If contamination by disease or pest infestation is suspected, contact the County Agricultural Commissioner and follow its direction for recycling or disposal of the material. (www.cdfa.ca.gov/exec/county/county_contacts.html)
2. For a map of known pest and/or disease quarantine zones, consult with the California Department of Food and Agriculture. (www.cdfa.ca.gov)

ADD ALTERNATE NO.1

51. CRACK FILL AND PATCH AND REPAIR EXISTING ASPHALT PAVING FOR NEW TENNIS COURT SURFACING.
52. SAWCUT AND REMOVE EXISTING ASPHALT PAVING AND BASE AGGREGATE AND EXISTING TENNIS COURT NETTING POSTS AND FOOTINGS TO PROVIDE FOR NEW CONSTRUCTION. SAWCUTS SHALL BE NEAT AND STRAIGHT. MAINTAIN CLEAN STRAIGHT CUT EDGE UNTIL NEW PAVING PLACED, OR NEW CUTS WILL BE REQUIRED.
53. REMOVE EXISTING FENCING MESH AND ALL ATTACHMENT HARDWARE FROM EXISTING TENNIS COURT PERIMETER AND INTERIOR FENCES AND GATES. PAINT EXISTING POSTS, AND GATE FRAMES AND ASSEMBLIES AND PLACE BACK NEW BLACK VINYL COATED CHAIN LINK MESH AND NEW BLACK ATTACHMENT HARDWARE, SEE LANDSCAPE PLANS.

ADD ALTERNATE NO.2

AND/OR

LEGEND | # | DEMOLITION NOTES

61. REMOVE ALL PLANTS, SHRUBS, EXISTING VEGETATION, INFIELD MIX AND OTHER LANDSCAPE TYPE SURFACING. REFER TO EARTHWORK SPECIFICATIONS FOR ADDITIONAL SITE CLEARING REQUIREMENTS. SEE LANDSCAPE PLANS FOR IRRIGATION DEMOLITION AND INSTALLATION. SEE GENERAL IRRIGATION NOTE, THIS SHEET.
62. REMOVE EXISTING BASES AND PICTHING MOUNDS AND ANY CONCRETE FOOTINGS. DISTRICT MAY SALVAGE, SEE NOTE 7.

EROSION NOTE:

REFER TO 2CK001 FOR APPLICABLE EROSION PROTECTIVE MEASURES DURING DEMOLITION. PROVIDE APPROVED BMPS AT ALL LOCATIONS NECESSARY TO PREVENT SEDIMENT LADEN WATER FROM LEAVING THE SITE. REFER TO SWPPP FOR ADDITIONAL INFO.

GRAPHIC SCALE

20' 0 10' 20' 40'

(IN FEET) 1 inch = 20 feet

THIS DRAWING MAY HAVE BEEN ENLARGED OR REDUCED.

NORTH

811 Know what's below. Call before you dig.

DEMOLITION GENERAL NOTES

1. IN THE EVENT THAT ANY UNUSUAL CONDITIONS NOT COVERED BY THE GEOTECHNICAL INVESTIGATION REPORT OR ARE ENCOUNTERED DURING GRADING OPERATIONS THE GEOTECHNICAL ENGINEER AND THE ENGINEER SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTIONS.
2. NO BURNING OR BLASTING SHALL BE PERMITTED.
3. ADDITIONAL DEMOLITION INFORMATION MAY BE SHOWN ON THE GRADING, DRAINAGE, AND UTILITY PLANS, AND THOSE PLANS PREPARED BY OTHER DISCIPLINES FOR THIS PROJECT.
4. ALL DEMOLISHED ITEMS SHALL BE DISPOSED OF OFFSITE AT A SUITABLE, LEGAL, DUMP SITE OR OTHER FACILITY.
5. ALL DISPOSED OF MATERIALS SHALL BE RECYCLED IF POSSIBLE.
6. THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN IN THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS, AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, WARREN CONSULTING ENGINEERS CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES, NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL NOTIFY THE DISTRICT TWO (2) WORKING DAYS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK IN ORDER TO VERIFY TO THE GREATEST EXTENT POSSIBLE THE EXISTING UTILITY LINES, CONFLICTS AND PROPOSED UTILITY CONNECTION POINTS.
7. THE SCHOOL DISTRICT SHALL HAVE SALVAGE RIGHTS TO ANY DEMOLISHED ITEMS SHOWN HEREON. THE CONTRACTOR SHALL GIVE THE DISTRICT NOTICE 7 DAYS PRIOR TO THE START OF DEMOLITION. THE DISTRICT SHALL MOVE ANY RETAINED ITEMS OUT OF THE CONTRACTORS WORK AREA, UNLESS ANOTHER ARRANGEMENT IS MADE WITH THE CONTRACTOR. ANY REMAINING ITEMS BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE. ANY ITEMS NOT SHOWN FOR REMOVAL SHALL REMAIN AND SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION TO A REASONABLE EXTENT.
8. EXISTING UTILITY STRUCTURES IN AREAS OF NEW PAVING SHALL BE REMOVED AND REINSTALLED AT NEW GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.
9. ITEMS OUTSIDE THE LIMITS OF DEMOLITION SHALL REMAIN AND BE PROTECTED FROM DAMAGE DURING CONSTRUCTION.
10. CONTRACTOR SHALL COMPLY WITH CHAPTER 33 OF THE 2022 CFC, "FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION" AT ALL TIMES DURING CONSTRUCTION.
11. CONTRACTOR SHALL HIRE A UTILITY LOCATING COMPANY AND SHALL SCAN THE ENTIRE AREA WITHIN THE LIMITS OF NEW WORK. ALL UTILITIES LOCATED SHALL BE MARKED AND PROTECTED DURING THE LIMING OPERATIONS AS WELL AS ANY EXCAVATING TASKS. ANY LOCATED UTILITY DAMAGED WITHIN THE LIMITS OF WORK WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR.
12. ALL DEMOLITION SHALL BE APPROPRIATELY SUPPORTED AND REINFORCED DURING REMOVAL TO PREVENT INJURY FROM FALLING, PROJECTILE, OR OTHERWISE MOVING DEBRIS OR OTHER DELETERIOUS MATERIAL. ONSITE SAFETY WITHIN THE LIMITS OF WORK IS THE CONTRACTORS SOLE RESPONSIBILITY.

DEMOLITION NOTES

AND/OR

LEGEND | # | DEMOLITION NOTES

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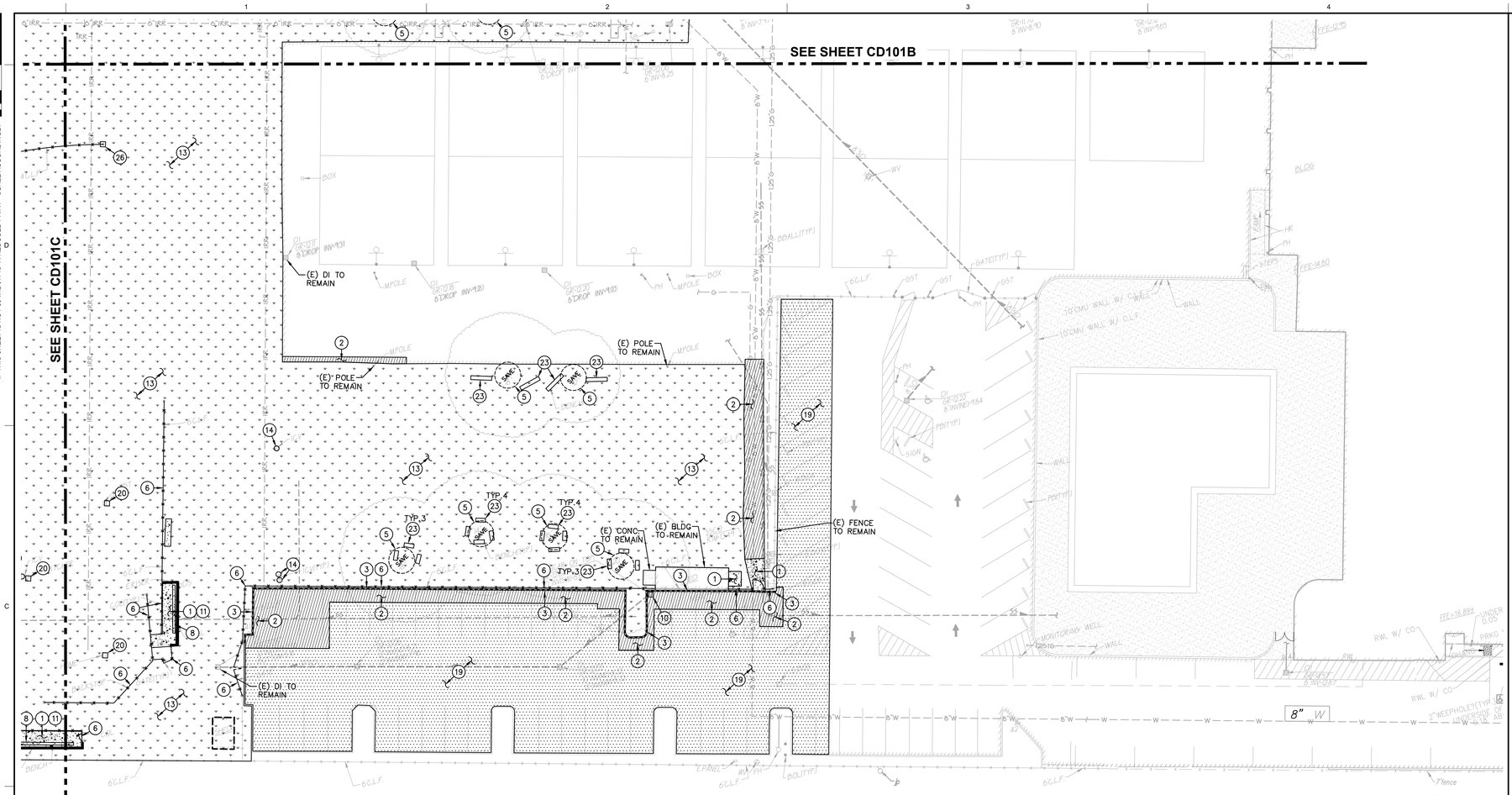
AREA C

SHEET
CD101C



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1. Contractor shall Identify the construction and demolition waste materials to be diverted from disposal, to comply with 65% criteria listed above, by efficient usage, recycling, reuse on the project or salvage for future use or sale.
2. Contractor shall determines if construction and demolition waste materials will be sorted on-site (source-separated) or bulk mixed (single stream). Either method is the responsibility of the contractor.
3. Contractor shall Identify diversion facilities where construction and demolition waste material collected will be taken. Transport to such facilities is contractors responsibility.
4. Contractor shall record and provide record of the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.

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.

Contractor shall make the determination if the construction and demolition waste material will be diverted by a waste management company. Contractor shall make any and all arrangements with waste management company for pickup of materials.

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.

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.

CAL-GREEN - Waste Diversion Documentation Required

(Ref Calgreen 5.408.1.4)

Contractor shall prepare and provide documentation to the enforcing agency which demonstrates compliance with Calgreen 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/CALGreen. 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).

CAL-GREEN - Excavated Soil & Land Clearing

5.408.3 Excavated soil and land clearing debris. 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed.

Exception: Reuse, either on-or off-site, of vegetation or soil contaminated by disease or pest infestation.

Notes:

1. If contamination by disease or pest infestation is suspected, contact the County Agricultural Commissioner and follow its direction for recycling or disposal of the material. (www.cdfa.ca.gov/exec/county/county_contacts.html)
2. For a map of known pest and/or disease quarantine zones, consult with the California Department of Food and Agriculture. (www.cdfa.ca.gov)

ADD ALTERNATE NO.1

51. CRACK FILL AND PATCH AND REPAIR EXISTING ASPHALT PAVING FOR NEW TENNIS COURT SURFACING.
52. SAWCUT AND REMOVE EXISTING ASPHALT PAVING AND BASE AGGREGATE AND EXISTING TENNIS COURT NETTING POSTS AND FOOTINGS TO PROVIDE FOR NEW CONSTRUCTION. SAWCUTS SHALL BE NEAT AND STRAIGHT. MAINTAIN CLEAN STRAIGHT CUT EDGE UNTIL NEW PAVING PLACED, OR NEW CUTS WILL BE REQUIRED.
53. REMOVE EXISTING FENCING MESH AND ALL ATTACHMENT HARDWARE FROM EXISTING TENNIS COURT PERIMETER AND INTERIOR FENCES AND GATES. PAINT EXISTING POSTS, AND GATE FRAMES AND ASSEMBLIES AND PLACE BACK NEW BLACK VINYL COATED CHAIN LINK MESH AND NEW BLACK ATTACHMENT HARDWARE, SEE LANDSCAPE PLANS.

ADD ALTERNATE NO.2

AND/OR

LEGEND | # | DEMOLITION NOTES

61. REMOVE ALL PLANTS, SHRUBS, EXISTING VEGETATION, INFIELD MIX AND OTHER LANDSCAPE TYPE SURFACING. REFER TO EARTHWORK SPECIFICATIONS FOR ADDITIONAL SITE CLEARING REQUIREMENTS. SEE LANDSCAPE PLANS FOR IRRIGATION DEMOLITION AND INSTALLATION. SEE GENERAL IRRIGATION NOTE, THIS SHEET.
62. REMOVE EXISTING BASES AND PICTHING MOUNDS AND ANY CONCRETE FOOTINGS. DISTRICT MAY SALVAGE, SEE NOTE 7.

DEMOLITION GENERAL NOTES

1. IN THE EVENT THAT ANY UNUSUAL CONDITIONS NOT COVERED BY THE GEOTECHNICAL INVESTIGATION REPORT OR ARE ENCOUNTERED DURING GRADING OPERATIONS THE GEOTECHNICAL ENGINEER AND THE ENGINEER SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTIONS.
2. NO BURNING OR BLASTING SHALL BE PERMITTED.
3. ADDITIONAL DEMOLITION INFORMATION MAY BE SHOWN ON THE GRADING, DRAINAGE, AND UTILITY PLANS, AND THOSE PLANS PREPARED BY OTHER DISCIPLINES FOR THIS PROJECT.
4. ALL DEMOLISHED ITEMS SHALL BE DISPOSED OF OFFSITE AT A SUITABLE, LEGAL, DUMP SITE OR OTHER FACILITY.
5. ALL DISPOSED OF MATERIALS SHALL BE RECYCLED IF POSSIBLE.
6. THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN IN THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS, AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, WARREN CONSULTING ENGINEERS CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES, NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL NOTIFY THE DISTRICT TWO (2) WORKING DAYS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK IN ORDER TO VERIFY TO THE GREATEST EXTENT POSSIBLE THE EXISTING UTILITY LINES, CONFLICTS AND PROPOSED UTILITY CONNECTION POINTS.
7. THE SCHOOL DISTRICT SHALL HAVE SALVAGE RIGHTS TO ANY DEMOLISHED ITEMS SHOWN HEREON. THE CONTRACTOR SHALL GIVE THE DISTRICT NOTICE 7 DAYS PRIOR TO THE START OF DEMOLITION. THE DISTRICT SHALL MOVE ANY RETAINED ITEMS OUT OF THE CONTRACTORS WORK AREA, UNLESS ANOTHER ARRANGEMENT IS MADE WITH THE CONTRACTOR. ANY REMAINING ITEMS BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE. ANY ITEMS NOT SHOWN FOR REMOVAL SHALL REMAIN AND SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION TO A REASONABLE EXTENT.
8. EXISTING UTILITY STRUCTURES IN AREAS OF NEW PAVING SHALL BE REMOVED AND REINSTALLED AT NEW GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.
9. ITEMS OUTSIDE THE LIMITS OF DEMOLITION SHALL REMAIN AND BE PROTECTED FROM DAMAGE DURING CONSTRUCTION.
10. CONTRACTOR SHALL COMPLY WITH CHAPTER 33 OF THE 2022 CFC, "FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION" AT ALL TIMES DURING CONSTRUCTION.
11. CONTRACTOR SHALL HIRE A UTILITY LOCATING COMPANY AND SHALL SCAN THE ENTIRE AREA WITHIN THE LIMITS OF NEW WORK. ALL UTILITIES LOCATED SHALL BE MARKED AND PROTECTED DURING THE LIMING OPERATIONS AS WELL AS ANY EXCAVATING TASKS. ANY LOCATED UTILITY DAMAGED WITHIN THE LIMITS OF WORK WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR.
12. ALL DEMOLITION SHALL BE APPROPRIATELY SUPPORTED AND REINFORCED DURING REMOVAL TO PREVENT INJURY FROM FALLING, PROJECTILE, OR OTHERWISE MOVING DEBRIS OR OTHER DELETERIOUS MATERIAL. ONSITE SAFETY WITHIN THE LIMITS OF WORK IS THE CONTRACTORS SOLE RESPONSIBILITY.

DEMOLITION NOTES

AND/OR

LEGEND | # | DEMOLITION NOTES

1. REMOVE EXISTING CONCRETE PAVING AND BASE AGGREGATES (IF EXIST). WHERE SAWCUTS ARE NECESSARY, THEY SHALL BE A NEAT STRAIGHT LINE. CUT SHALL BE MADE AT NEAREST EXISTING JOINT TO LOCATION SHOWN.
2. SAWCUT AND REMOVE EXISTING ASPHALT PAVING AND BASE AGGREGATE TO PROVIDE FOR NEW CONSTRUCTION. SAWCUTS SHALL BE NEAT AND STRAIGHT. MAINTAIN CLEAN STRAIGHT CUT EDGE UNTIL NEW PAVING PLACED, OR NEW CUTS WILL BE REQUIRED.
3. REMOVE EXISTING CONCRETE CURB/CURB GUTTER.
4. REMOVE EXISTING TREE AND ROOTS. IF SMALL ROOTS OR ROOT FRAGMENTS REMAIN (>1/2" IN DIA.), CONTRACTOR TO REMOVE BY HAND IF NECESSARY. BACKFILL VOID PER GRADING SPECIFICATIONS. IT IS HIGHLY RECOMMENDED WET AND DRY UTILITIES BE READY TO SHUTOFF SHOULD A ROOT DAMAGE A LINE DURING TREE REMOVAL.
5. EXISTING TREE TO REMAIN AND BE PROTECTED FROM DAMAGE. PROVIDE PROTECTIVE FENCING IF NEEDED. WHEN IMMEDIATELY ADJACENT TO EQUIPMENT TRAFFIC, STRAP 2x4'S VERTICALLY AT 8" O.C. AROUND TRUNK, FROM 12" ABOVE GRADE TO 6' FEET ABOVE GRADE TO PROTECT TREE BARK FROM EQUIPMENT DAMAGE.
6. REMOVE EXISTING FENCING AND OR GATES AS SHOWN. REMOVAL TO INCLUDE ALL POSTS AND CONCRETE BASES. BACKFILL WITH CLASS II AB IN 6" LIFTS, EACH COMPACTED TO 95% FENCE TYPES MAY VARY.
7. REMOVE AND DISPOSE OF EXISTING CONCRETE WHEEL STOP. WHEEL STOPS IN GOOD CONDITION WITH NO CHIPS OR CRACKS MAY BE SALVAGED AND RE-USED.
8. REMOVE EXISTING BENCHES OR TABLE TO INCLUDE CONCRETE FOOTINGS. BACKFILL WITH CLASS II AB IN 6" LIFTS, EACH COMPACTED TO 95%.
9. REMOVE EXISTING PIPE BOLLARDS AND CONCRETE FOOTINGS. BACKFILL WITH CLASS II AB IN 6" LIFTS, EACH COMPACTED TO 95% OR PER EARTHWORK SPECS.
10. REMOVE EXISTING DRAIN INLET, SEE UTILITY DEMOLITION PLAN FOR ADDITIONAL INFORMATION.
11. RELOCATE EXISTING SHED TO ALLOW FOR NEW WORK. PLACE AT NEW LOCATION ONSITE PER DISTRICT DIRECTION. ALL CONTAINERS SHALL BE MIN. 20' FROM EXISTING BUILDINGS.
12. DISCONNECT, DISMANTLE AND REMOVE EXISTING DUGOUT STRUCTURE TO INCLUDE ALL STRUCTURE, WALLS, SLABS AND FOUNDATIONS.
13. REMOVE ALL PLANTS, SHRUBS, EXISTING VEGETATION, INFIELD MIX AND OTHER LANDSCAPE TYPE SURFACING. REFER TO EARTHWORK SPECIFICATIONS FOR ADDITIONAL SITE CLEARING REQUIREMENTS. SEE LANDSCAPE PLANS FOR IRRIGATION DEMOLITION AND INSTALLATION. SEE GENERAL IRRIGATION NOTE, THIS SHEET.
14. REMOVE EXISTING IRRIGATION VALVES, LINES WIRES, ETC. REFER TO LANDSCAPE AND IRRIGATION PLANS FOR ADDITIONAL INFO.
15. REMOVE EXISTING UTILITY VAULT/BOX. PROTECT UTILITIES FROM DAMAGE. PROVIDE NEW AND ADJUST TO FINISHED GRADE. SEE GRADING PLAN AND UTILITY PLANS FOR ADDITIONAL INFO.
16. REMOVE EXISTING UTILITY BOX. DISCONNECT AND REMOVE ASSOCIATED UTILITIES. SEE UTILITY PLANS FOR ADDITIONAL INFO.
17. REMOVE EXISTING DRINKING FOUNTAIN. SEE UTILITY DEMOLITION PLAN FOR ADDITIONAL INFO.
18. GRIND EXISTING ASPHALT 1.5" DEEP TO ALLOW FOR NEW ASPHALT OVERLAY. SEE GRADING AND PAVING PLAN FOR ADDITIONAL INFORMATION.
19. CRACK FILL AND PATCH EXISTING AC PAVING TO ALLOW FOR NEW SEALCOAT PER SPECIFICATIONS. SEE PAVING PLAN. PAINT ALL EXISTING STRIPING BLACK WITH MIN. 2 COATS COMMERCIAL GRADE BLACK TRAFFIC PAINT.
20. REMOVE EXISTING BASES AND PICTHING MOUNDS AND ANY CONCRETE FOOTINGS. DISTRICT MAY SALVAGE, SEE NOTE 7.
21. REMOVE EXISTING ELECTRICAL PANEL. REMOVE CONDUITS BACK TO SERVICE POINT OR NEAREST UTILITY BOX TO REMAIN. COIL WIRES AND LEAVE IN BOX. SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
22. REMOVE AND RELOCATE EXISTING BLEACHERS. SEE ARCH. PLANS FOR LOCATIONS AND ADDITIONAL INFO.
23. REMOVE AND RELOCATE EXISTING BENCHES. SEE ARCH. PLANS FOR LOCATIONS AND ADDITIONAL INFO.
24. REMOVE EXISTING SYNTHETIC TURF. IF EXISTING NAILERS ARE IN GOOD SHAPE AND CAN BE RE-USED, LEAVE IN PLACE, OTHERWISE, REMOVE NAILERS AND SEE GRADING PLAN FOR NEW.
25. SALVAGE PLAQUE FOR RE-INSTALLATION. SEE ARCH. PLANS FOR NEW LOCATION.
26. REMOVE EXISTING FOUL BALL POLE AND FOOTING. BACKFILL WITH CLASS II AB IN 6" LIFTS, EACH COMPACTED TO 95% FENCE TYPES MAY VARY.
27. REMOVE EXISTING SCOREBOARD AND FOOTINGS. BACKFILL WITH CLASS II AB IN 6" LIFTS, EACH COMPACTED TO 95% FENCE TYPES MAY VARY.

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REGISTERED PROFESSIONAL ENGINEER ANTHONY J TASSIANO NO. C74698 STATE OF CALIFORNIA 12/07/2023

SEAL

PROJECT

MC CLATCHY HIGH SCHOOL ATHLETIC FIELD RENOVATION

3066 FREEPORT BLVD.
SACRAMENTO, CA 95818

CLIENT

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

3500 FLORIN ROAD, SACRAMENTO, CA 95823

ISSUED

MARK	DATE	DESCRIPTION
-	8/18/2023	DSA SUBMITTAL
	12/7/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

LIONAKIS PROJECT NO:	023040
DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	02-121610
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AGENCY

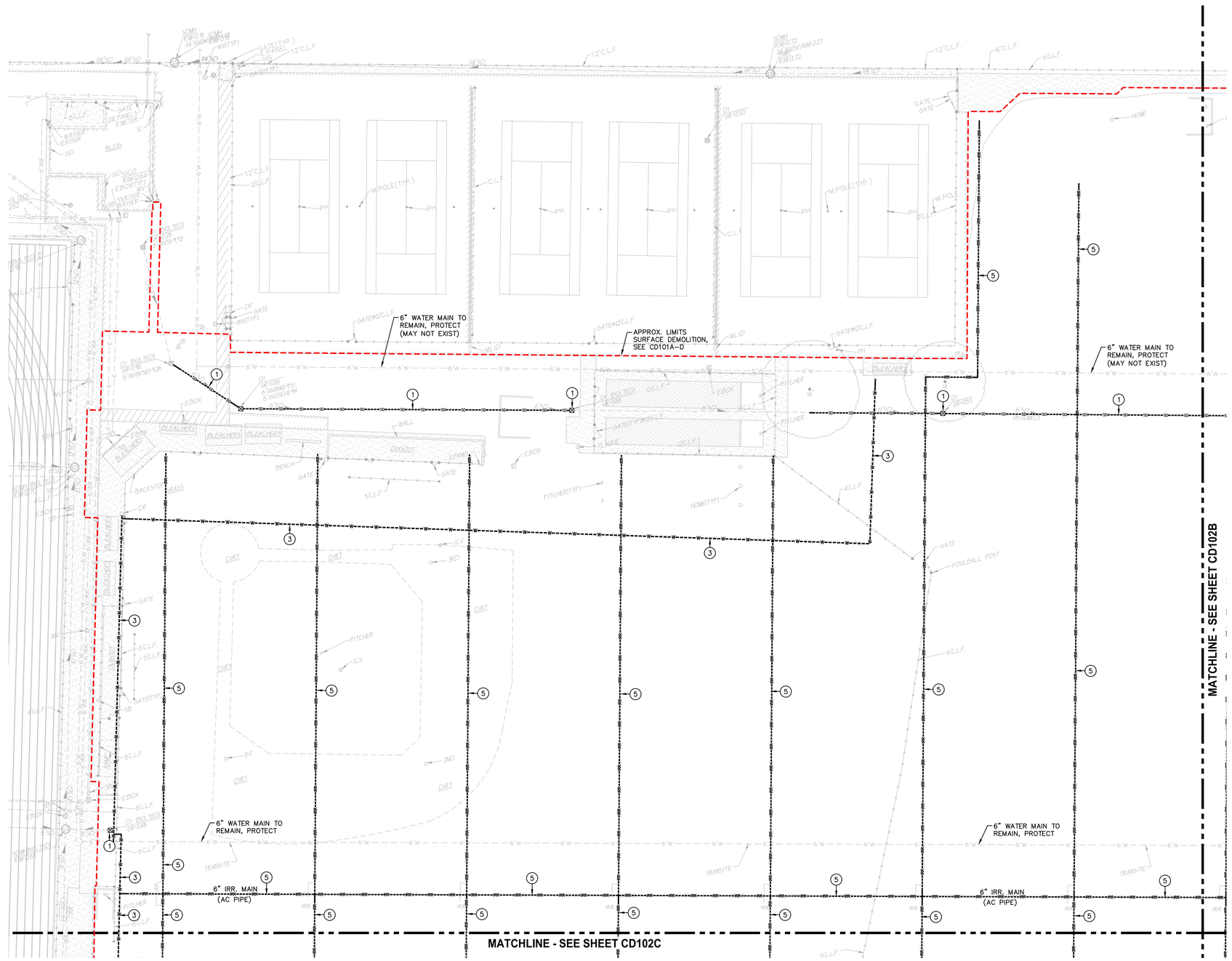
TITLE

SURFACE DEMOLITION PLAN

AREA D

SHEET

CD101D



1 UTILITY DEMOLITION PLAN

SCALE 1" = 20'-0"

DEMOLITION GENERAL NOTES

1. IN THE EVENT THAT ANY UNUSUAL CONDITIONS NOT COVERED BY THE GEOTECHNICAL INVESTIGATION REPORT OR ARE ENCOUNTERED DURING GRADING OPERATIONS THE GEOTECHNICAL ENGINEER AND THE ENGINEER SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTIONS.
2. NO BURNING OR BLASTING SHALL BE PERMITTED.
3. ADDITIONAL DEMOLITION INFORMATION MAY BE SHOWN ON THE GRADING, DRAINAGE, AND UTILITY PLANS, AND THOSE PLANS PREPARED BY OTHER DISCIPLINES FOR THIS PROJECT.
4. ALL DEMOLISHED ITEMS SHALL BE DISPOSED OF OFFSITE AT A SUITABLE, LEGAL, DUMP SITE OR OTHER FACILITY.
5. ALL DISPOSED OF MATERIALS SHALL BE RECYCLED IF POSSIBLE.
6. THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN IN THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS, AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, WARREN CONSULTING ENGINEERS CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES, NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL NOTIFY THE DISTRICT TWO (2) WORKING DAYS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK IN ORDER TO VERIFY TO THE GREATEST EXTENT POSSIBLE THE EXISTING UTILITY LINES, CONFLICTS AND PROPOSED UTILITY CONNECTION POINTS.
7. THE SCHOOL DISTRICT SHALL HAVE SALVAGE RIGHTS TO ANY DEMOLISHED ITEMS SHOWN HEREON. THE CONTRACTOR SHALL GIVE THE DISTRICT NOTICE 7 DAYS PRIOR TO THE START OF DEMOLITION. THE DISTRICT SHALL MOVE ANY RETAINED ITEMS OUT OF THE CONTRACTORS WORK AREA, UNLESS ANOTHER ARRANGEMENT IS MADE WITH THE CONTRACTOR. ANY REMAINING ITEMS BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE. ANY ITEMS NOT SHOWN FOR REMOVAL SHALL REMAIN AND SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION TO A REASONABLE EXTENT.
8. EXISTING UTILITY STRUCTURES IN AREAS OF NEW PAVING SHALL BE REMOVED AND REINSTALLED AT NEW GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.
9. ITEMS OUTSIDE THE LIMITS OF DEMOLITION SHALL REMAIN AND BE PROTECTED FROM DAMAGE DURING CONSTRUCTION.
10. CONTRACTOR SHALL COMPLY WITH CHAPTER 33 OF THE 2022 CFC, "FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION" AT ALL TIMES DURING CONSTRUCTION.
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12. ALL DEMOLITION SHALL BE APPROPRIATELY SUPPORTED AND REINFORCED DURING REMOVAL TO PREVENT INJURY FROM FALLING, PROJECTILE, OR OTHERWISE MOVING DEBRIS OR OTHER DELETERIOUS MATERIAL. ONSITE SAFETY WITHIN THE LIMITS OF WORK IS THE CONTRACTORS SOLE RESPONSIBILITY.

UTILITY DEMOLITION NOTES

LEGEND

DEMOLITION NOTES

1. REMOVE EXISTING STORM DRAIN PIPE AND STRUCTURES AS NOTED. PATCH INLETS EXISTING STORM DRAIN LINES OR STRUCTURES TO REMAIN WITH PRE-MANUFACTURED CAP/PLUG, OR GROUT. REPLACE SECTIONS OF PIPE WITH DUAL BAND FERNCO COUPLERS COUPLERS WHERE CAP/PLUG OR GROUT CANNOT BE USED.
2. REMOVE EXISTING SEWER PIPE AND STRUCTURES AS NOTED. PATCH INLETS EXISTING SEWER LINES OR STRUCTURES TO REMAIN WITH PRE-MANUFACTURED CAP/PLUG, OR GROUT. REPLACE SECTIONS OF PIPE WITH DUAL BAND FERNCO COUPLERS COUPLERS WHERE CAP/PLUG OR GROUT CANNOT BE USED.
3. SHUT OFF, DISCONNECT AND REMOVE EXISTING WATER LINE AND VALVES AS NOTED. PROVIDE TEMPORARY CAP AS NEEDED UNTIL NEW CONNECTION IS MADE.

   ABANDONED CITY WATER MAIN SHOWN ON PLAN IS ASSUMED TO CONTAIN ASBESTOS (AC PIPE). ANY PORTIONS THAT MUST BE REMOVED FOR NEW WORK SHALL BE CUT AND CAPPED AND MAY BE ABANDONED IN PLACE. ANY REMOVED SECTIONS SHALL REQUIRE HAZARDOUS WASTE ABATEMENT.
4. ASSUMED LOCATION OF EXISTING ELECTRICAL SYSTEMS. SHUT OFF, DISCONNECT AND REMOVE EXISTING ELECTRICAL SYSTEMS. REFER TO ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
5. ASSUMED LOCATION OF EXISTING IRRIGATION LINES. SHUT OFF, DISCONNECT AND REMOVE EXISTING IRRIGATION SYSTEMS. REFER TO IRRIGATION PLANS FOR NEW SYSTEMS AND RELOCATIONS.

   IRRIGATION MAIN LINES ARE KNOWN TO CONTAIN ASBESTOS (AC PIPE) AND WILL REQUIRE HAZARDOUS MATERIAL DISPOSAL WHICH SHALL BE INCLUDED IN THE CONTRACTORS BID
6. SHUT OFF, DISCONNECT AND REMOVE EXISTING GAS LINE AND VALVES AS NOTED. PROVIDE TEMPORARY CAPS WHERE NECESSARY.
7. EXISTING UNKNOWN UTILITY, TO BE REMOVED. LOCATE AND CONFIRM UTILITY, THEN SHUT OFF, DISCONNECT AND REMOVE EXISTING LINE AND VALVES AS NOTED. PROVIDE TEMPORARY CAPS WHERE NECESSARY.

UTILITY VERIFICATION NOTE

PRIOR TO THE START OF CONSTRUCTION, VERIFY AND POTHOLE ALL UTILITY POINTS OF CONNECTION FOR LOCATION, DEPTH, AND SIZE. IF CONFLICT IS FOUND, CONTACT THE ENGINEER IMMEDIATELY FOR DIRECTION.

IRRIGATION DEMOLITION

WITHIN LANDSCAPE AREAS TO BE DEMOLISHED THERE MAY BE EXISTING IRRIGATION LINES NOT SHOWN ON THIS PLAN. CONTRACTOR SHALL REMOVE LATERAL LINE AND HEADS ENCOUNTERED, PROVIDED THAT THE MAIN LINES AND CONTROL WIRES ONLY IF ROUTING IS KNOWN AND REMOVAL WILL NOT DEACTIVATE AN IRRIGATION SYSTEM INTENDED TO REMAIN. IF CONFLICT IS FOUND, CONTACT THE ENGINEER FOR DIRECTION.

WHEN IRRIGATION LINES ENTERING NEW WORK ARE CUT TEMPORARILY FOR CONSTRUCTION, EVEN IF THEY ARE TO BE RE-CONNECTED TO AT SOME POINT DURING CONSTRUCTION, SHALL BE CAPPED TO ALLOW UPSTREAM HEADS IN THAT SYSTEM ZONE TO OPERATE. CAPS SHALL BE REMOVED IF A RE-CONNECTION IS PLANNED.

EXISTING UTILITIES AND LOCATING

VARIOUS UTILITIES EXIST BENEATH THE PROPOSED IMPROVEMENTS. CONTRACTOR SHALL AQUIRE UNDERGROUND LOCATOR TO LOCATE ALL UTILITIES IN ACCORDANCE WITH EARTHWORK SECTION 31 0000. APPROXIMATE LOCATIONS HAVE BEEN SHOWN ON THESE PLANS FROM RECORD SOURCES BUT FIELD CONDITIONS MAY VARY. CELLULAR CONDUITS REQUIRE EXTREME CAUTION WHEN WORKING AROUND. SHALLOW UTILITIES, MAY REQUIRE ADDITIONAL WORK AS OUTLINED IN THESE PLANS AND SPECIFICATIONS TO AVOID DAMAGE TO UTILITIES. CONTACT ARCHITECT IMMEDIATELY IF FOUND UTILITIES CONFLICT WITH NEW WORK.

CONCRETE SAWCUT NOTE

SAWCUTS AND SUBSEQUENT PATCH BACK OF CONCRETE WALKS, SHALL BE TO THE EXISTING CONCRETE JOINT BEYOND NEAREST THE LOCATION OF DEMOLITION AS SHOWN. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE, SHOW AND COORDINATE WITH EXISTING JOINTS, HOWEVER IF FIELD CONDITIONS ARE OTHERWISE, IT IS UNDERSTOOD TO REMOVE AND PATCH BACK TO THE NEAREST JOINTS BEYOND DEMOLITION.

ABATEMENT NOTE

TRANSITE IRRIGATION LINES ARE PRESENT AND PLANNED FOR REMOVAL, USE CAUTION DURING DEMOLITION AND CONSTRUCTION. SEE UTILITY DEMOLITION PLAN FOR PRECAUTIONS AND ABATEMENT.

811 Know what's below. Call before you dig.

GRAPHIC SCALE

20' 0 10' 20' 40'

(IN FEET) 1 inch = 20 feet

NORTH

THIS DRAWING MAY HAVE BEEN ENLARGED OR REDUCED.

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CONSULTANT

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DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	02-121610
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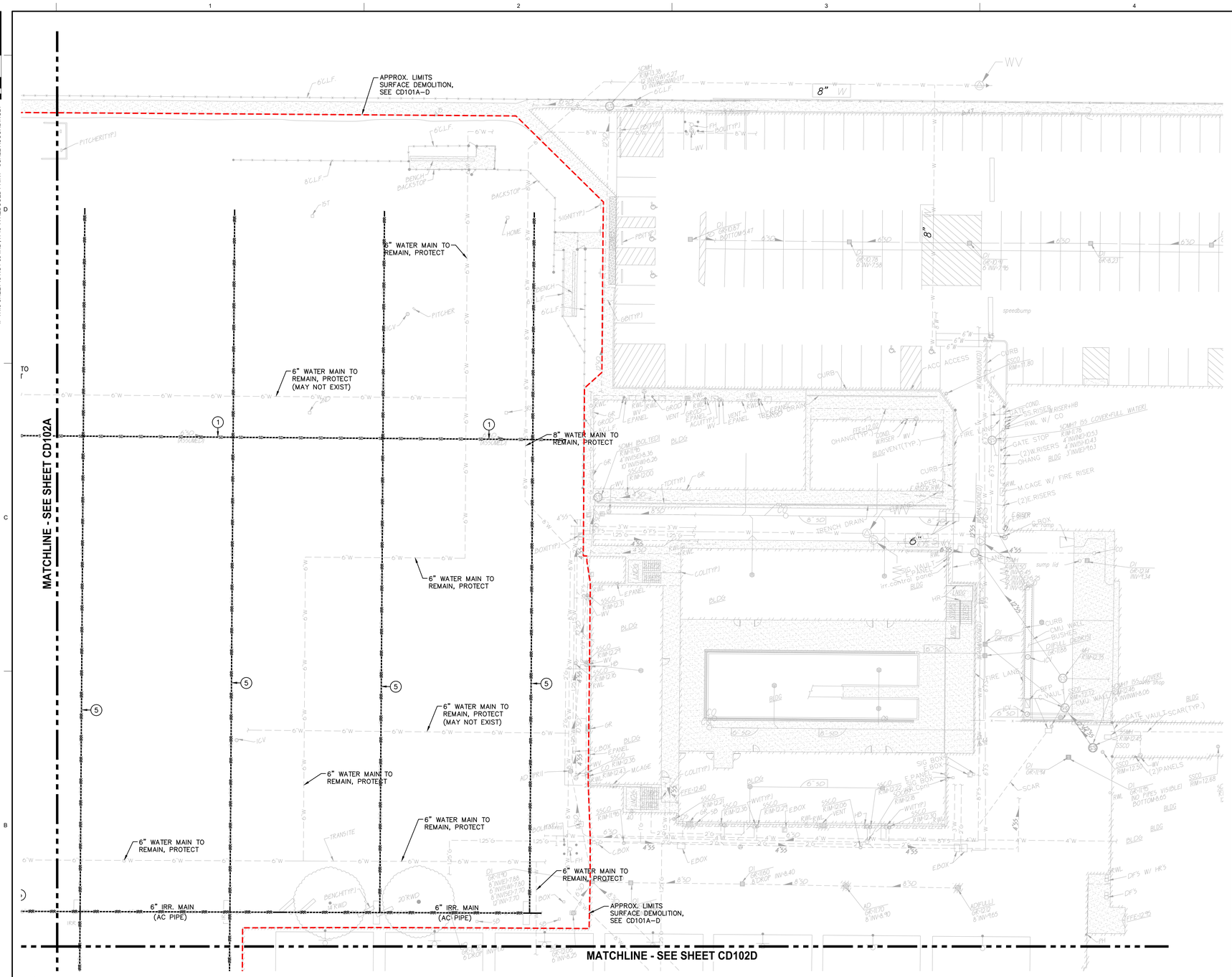
AGENCY

TITLE
UTILITY DEMOLITION PLAN

AREA A

SHEET
CD102A



1 UTILITY DEMOLITION PLAN

SCALE 1" = 20'–0"

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UTILITY DEMOLITION NOTES

LEGEND

DEMOLITION NOTES

1. REMOVE EXISTING STORM DRAIN PIPE AND STRUCTURES AS NOTED. PATCH INLETS EXISTING STORM DRAIN LINES OR STRUCTURES TO REMAIN WITH PRE–MANUFACTURED CAP/PLUG, OR GROUT. REPLACE SECTIONS OF PIPE WITH DUAL BAND FERNCO COUPLERS COUPLERS WHERE CAP/PLUG OR GROUT CANNOT BE USED.
2. REMOVE EXISTING SEWER PIPE AND STRUCTURES AS NOTED. PATCH INLETS EXISTING SEWER LINES OR STRUCTURES TO REMAIN WITH PRE–MANUFACTURED CAP/PLUG, OR GROUT. REPLACE SECTIONS OF PIPE WITH DUAL BAND FERNCO COUPLERS COUPLERS WHERE CAP/PLUG OR GROUT CANNOT BE USED.
3. SHUT OFF, DISCONNECT AND REMOVE EXISTING WATER LINE AND VALVES AS NOTED. PROVIDE TEMPORARY CAP AS NEEDED UNTIL NEW CONNECTION IS MADE.

   ABANDONED CITY WATER MAIN SHOWN ON PLAN IS ASSUMED TO CONTAIN ASBESTOS (AC PIPE). ANY PORTIONS THAT MUST BE REMOVED FOR NEW WORK SHALL BE CUT AND CAPPED AND MAY BE ABANDONED IN PLACE. ANY REMOVED SECTIONS SHALL REQUIRE HAZARDOUS WASTE ABATEMENT.
4. ASSUMED LOCATION OF EXISTING ELECTRICAL SYSTEMS. SHUT OFF, DISCONNECT AND REMOVE EXISTING ELECTRICAL SYSTEMS. REFER TO ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
5. ASSUMED LOCATION OF EXISTING IRRIGATION LINES. SHUT OFF, DISCONNECT AND REMOVE EXISTING IRRIGATION SYSTEMS. REFER TO IRRIGATION PLANS FOR NEW SYSTEMS AND RELOCATIONS.

   IRRIGATION MAIN LINES ARE KNOWN TO CONTAIN ASBESTOS (AC PIPE) AND WILL REQUIRE HAZARDOUS MATERIAL DISPOSAL WHICH SHALL BE INCLUDED IN THE CONTRACTORS BID
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UTILITY VERIFICATION NOTE

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SAWCUTS AND SUBSEQUENT PATCH BACK OF CONCRETE WALKS, SHALL BE TO THE EXISTING CONCRETE JOINT BEYOND NEAREST THE LOCATION OF DEMOLITION AS SHOWN. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE, SHOW AND COORDINATE WITH EXISTING JOINTS, HOWEVER IF FIELD CONDITIONS ARE OTHERWISE, IT IS UNDERSTOOD TO REMOVE AND PATCH BACK TO THE NEAREST JOINTS BEYOND DEMOLITION.

ABATEMENT NOTE

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SEAL

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MC CLATCHY HIGH SCHOOL ATHLETIC FIELD RENOVATION

3066 FREEPORT BLVD.
SACRAMENTO, CA 95818

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

3500 FLORIN ROAD, SACRAMENTO, CA 95823

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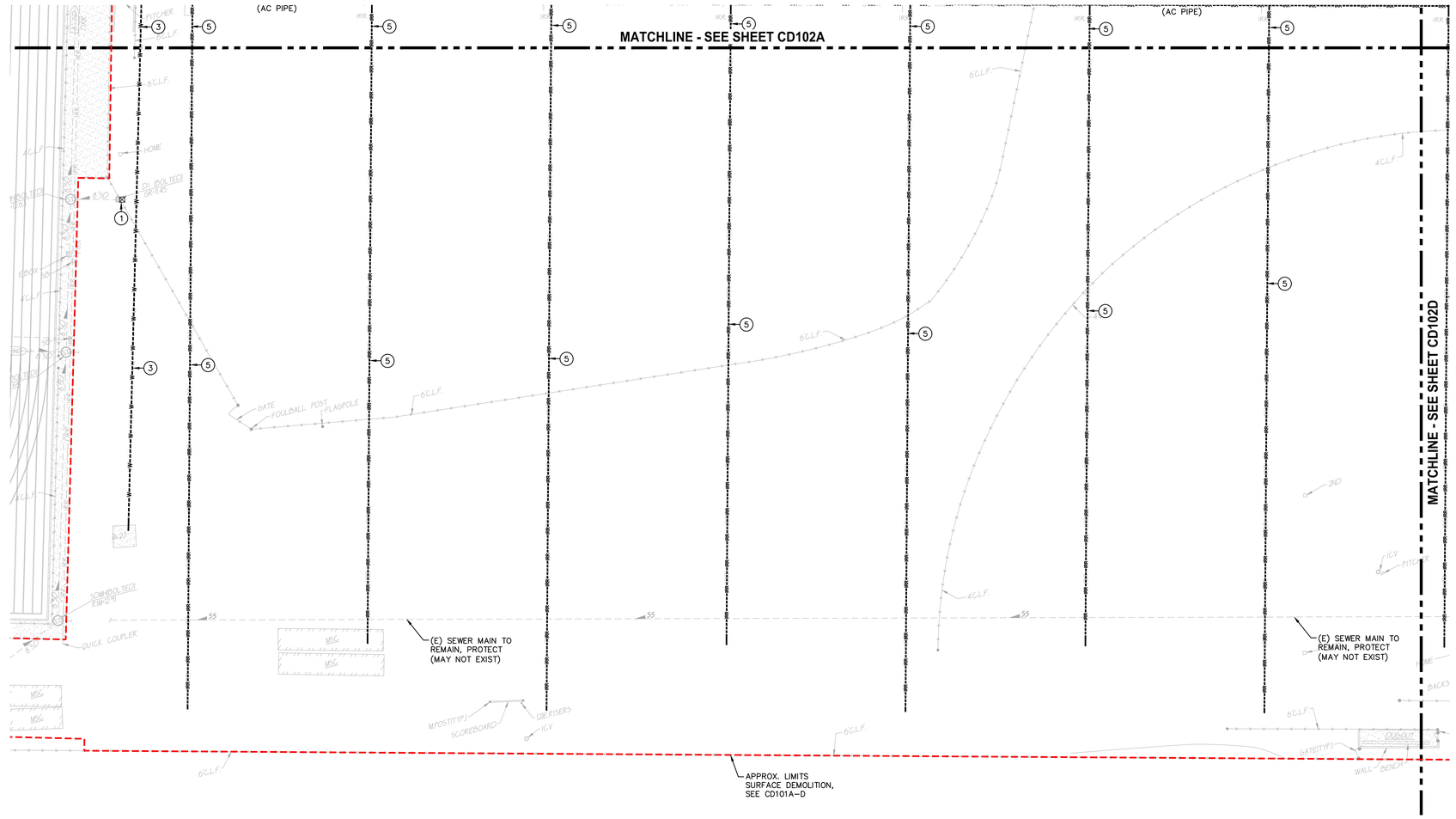
AGENCY

TITLE
UTILITY DEMOLITION PLAN

AREA B

SHEET
CD102B



1 UTILITY DEMOLITION PLAN

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4. ALL DEMOLISHED ITEMS SHALL BE DISPOSED OF OFFSITE AT A SUITABLE, LEGAL, DUMP SITE OR OTHER FACILITY.
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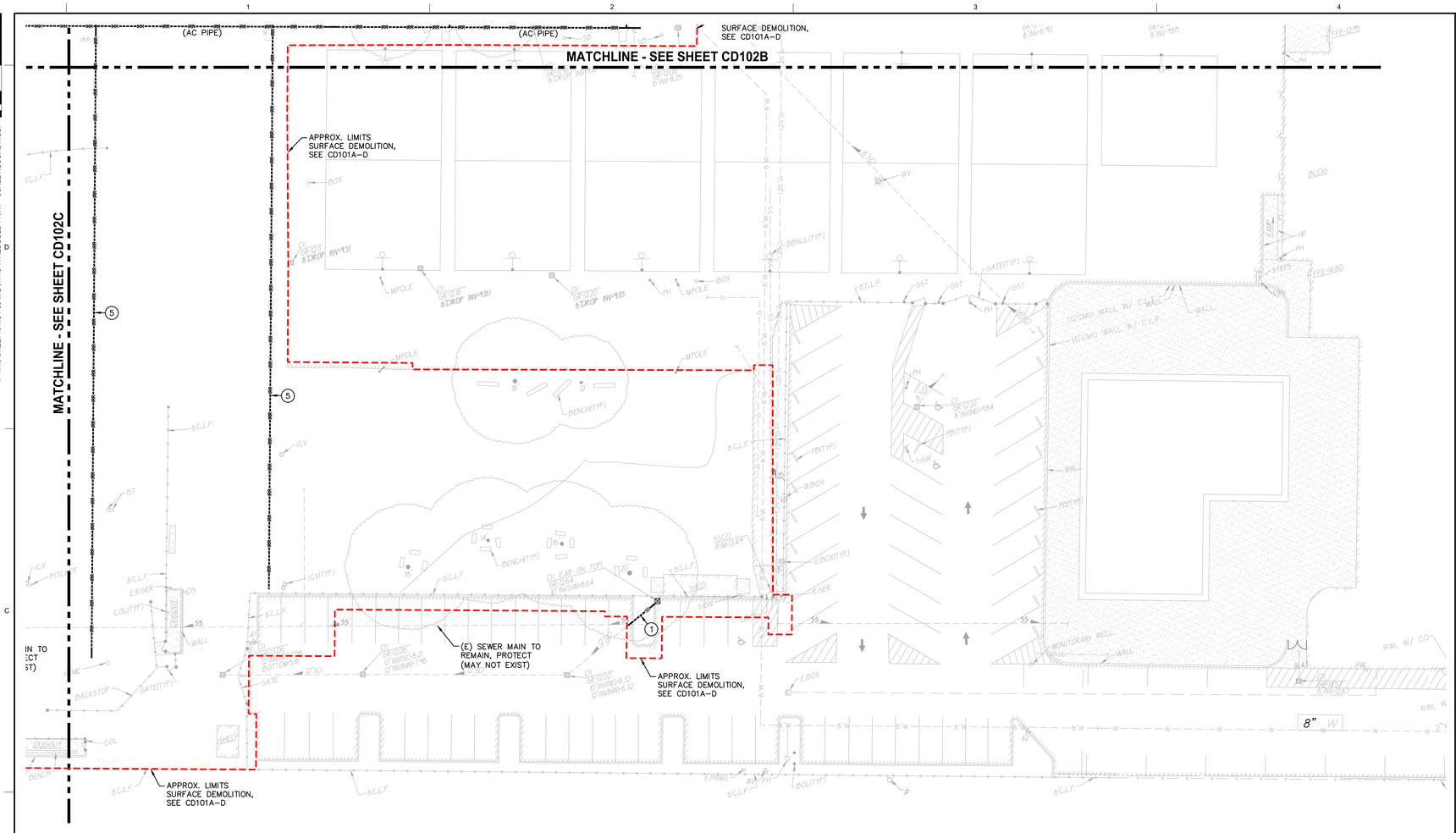

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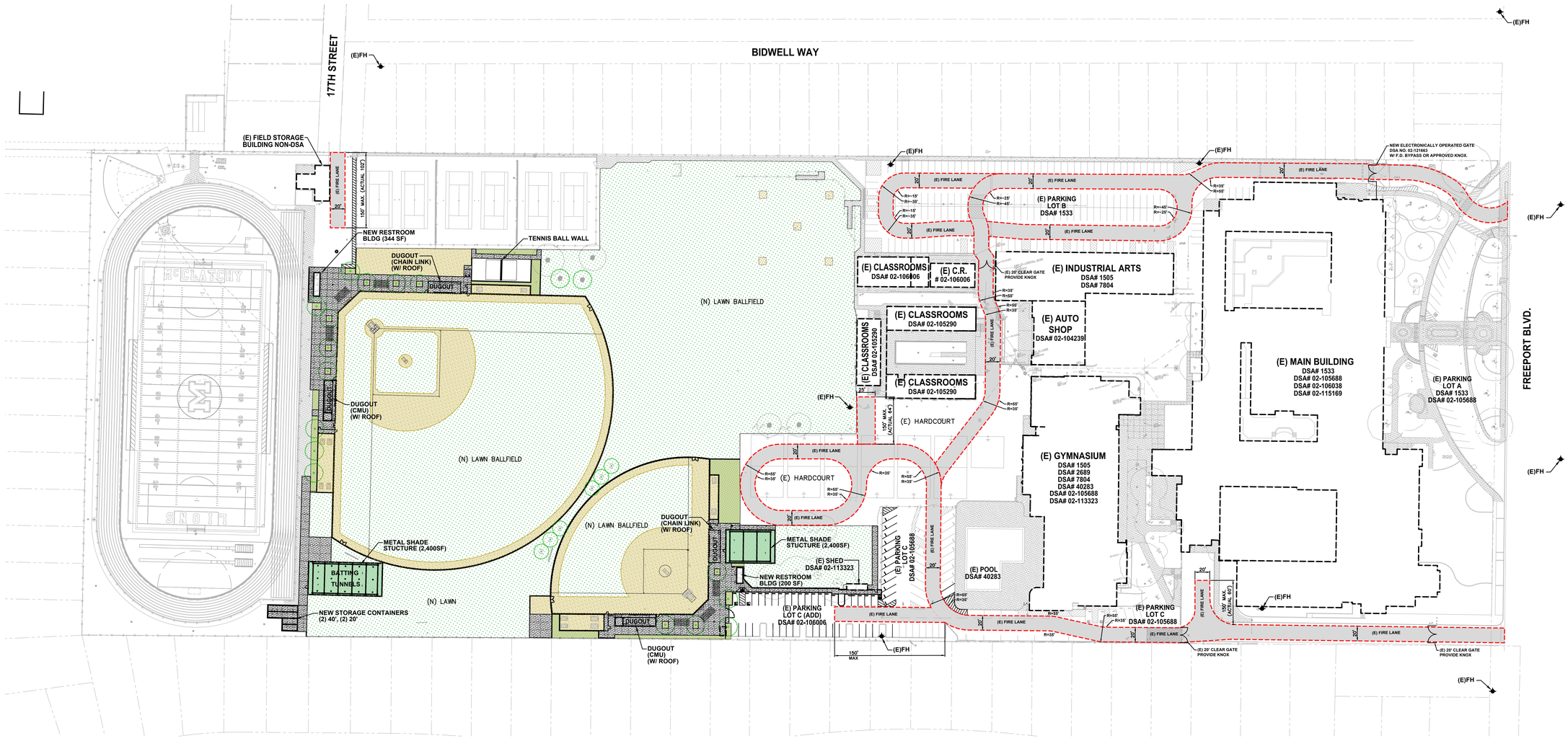
PLOT DATE: 12/7/2023 9:28:03 AM FILE: I:\23-087\CIVIL\DWG\23-087 - 104 - CD102A-D.DWG



1 FIRE ACCESS PLAN

SCALE 1" = 60'-0"

GRAPHIC SCALE

60' 0 30' 60' 120'

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TYPICAL FIRE LANE

CLEAR WIDTH	20 FEET
CLEAR HEIGHT	13.5 FEET
INSIDE RADIUS	35 FEET MIN.
OUTSIDE RADIUS	55 FEET MIN.

FIRE LANE LEGEND

EXISTING FIRE LANE

NEW FIRE LANE (THIS PROJECT)

SEE STRIPING PLANS FOR NEW FIRE LANE DESIGNATION STRIPING AND SIGNAGE.

NOTE:
All new and existing fire lanes are asphalt or concrete paved unless otherwise stated.

KNOX NOTES

ALL GATES WHICH CROSS THE FIRE LANE AS DESIGNATED BY THIS PLAN SHALL BE OUTFITTED WITH A LOW LEVEL KNOX LOCK.

ALL FIRE CONTROL ROOMS FOR THIS PROJECT SHALL BE OUTFITTED WITH A HIGH LEVEL KNOX BOX AT A LOCATION WHICH IS APPROVED BY THE SACRAMENTO METROPOLITAN FIRE DISTRICT INSPECTOR.

PAVEMENT NOTES

FIRE ACCESS ROADWAYS SHALL BE BUILT TO BEAR A MINIMUM OF 75,000 POUNDS IN ACCORDANCE WITH CFC 2022, APPENDIX D.

FIRE LANE DESIGNATION

ALL FIRE LANES ON THIS PLAN SHALL BE DESIGNATED IN ACCORDANCE WITH THE STRIPING PLANS, UTILIZING ONE OF THE FOLLOWING APPROVED MEANS:

1. CURBS – PAINT CURB TOP AND FACE RED WITH COMMERCIAL GRADE RED TRAFFIC PAINT. ON FACE OF CURB, PAINT 4" TALL WHITE LETTERING STATING "NO PARKING – FIRE LANE" AT 25' O.C. CENTERED ON FACE.
2. PAVING – PAINT 6" WIDE RED STRIPE ON PAVEMENT WITH COMMERCIAL GRADE RED TRAFFIC PAINT. CENTERED IN STRIPE, PAINT 4" TALL WHITE LETTERING STATING "NO PARKING – FIRE LANE" AT 25' O.C.
3. SIGNAGE – POSTING OF SIGNS COMPLIANT WITH CFC 2016, APPENDIX D103.6 EVERY 50 FEET.

EXCEPTIONS:
- STREETS 20' WIDE TO 26' WIDE SHALL BE MARKED ON BOTH SIDES AS STATED ABOVE.
- STREETS GREATER THAN 26' WIDE NEED ONLY MARKING ON ONE SIDE AS STATED ABOVE.
- EDGES OF FIRE LANES AT PARKING DO NOT REQUIRE DESIGNATION.

SEE STRIPING PLAN FOR ACTUAL REQUIRED STRIPING.

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:	SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
Project Name/School:	C.K. McCLATCHY HIGH SCHOOL
Project Address:	3066 FREEPORT BOULEVARD, SACRAMENTO, CA 95818

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 X		No ☐
2.	Was the fire hydrant water flow test performed as part of this LFA review?	Yes X		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 X
	Refer to the following website for FHSZ locations: http://egis.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 ☐

DSA 810

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

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.	X			
5.	**Fire Hydrants:** Number and spacing does not meet CFC requirements.			X	
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.			X	
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.			X	
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: N/A - NO VARIANCE PROPOSED Title:

Signature: Date:

LOCAL FIRE AUTHORITY (LFA) INFORMATION			
LFA Agency Name:	City of Sacramento Fire Department		
LFA Review Official:	King Tunson		
Title:	Program Specialist	Work Phone:	(916) 808-1358
Work Email:	ktunson@sfd.cityofsacramento.org		

LFA Reviewer's Signature: King Tunson Date: 12/07/2023

LIONAKIS
2025 Nineteenth Street
Sacramento, CA 95818
P 916.558.1900
www.lionakis.com

CONSULTANT
WCE
WARREN CONSULTING ENGINEERS, INC.
1117 WINDFIELD WAY, SUITE 110
EL DORADO HILLS, CA 95762 | (916) 985-1870
REGISTERED PROFESSIONAL ENGINEER ANTHONY J TASSANO No. C74688 STATE OF CALIFORNIA
12/07/2023

SEAL

PROJECT
MC CLATCHY HIGH SCHOOL
ATHLETIC FIELD RENOVATION

3066 FREEPORT BLVD.
SACRAMENTO, CA 95818

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

3500 FLORIN ROAD, SACRAMENTO, CA 95823

ISSUED

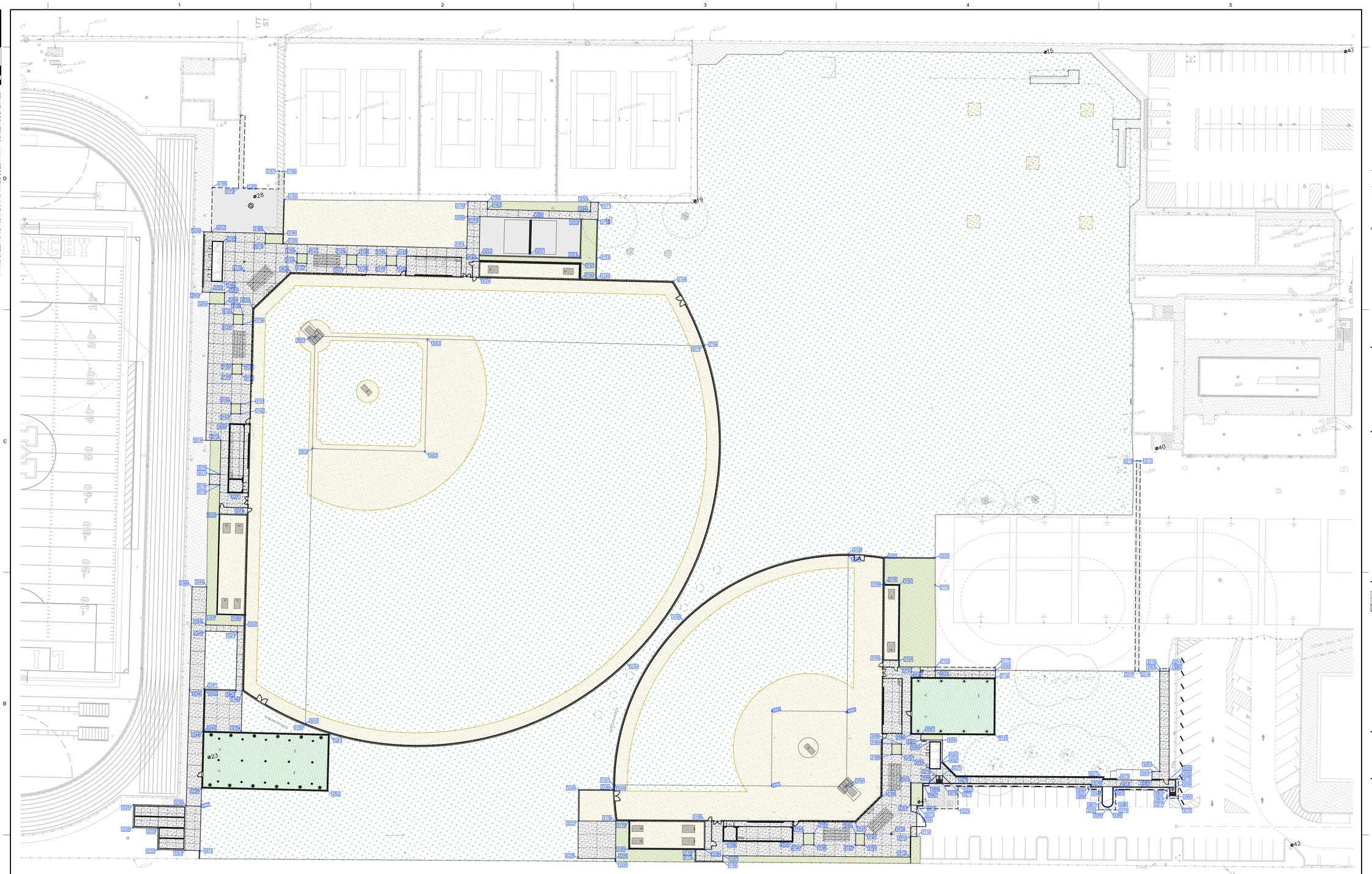
MARK	DATE	DESCRIPTION
-	8/18/2023	DSA SUBMITTAL
	12/7/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

LIONAKIS PROJECT NO:	023040
DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	####
COPYRIGHT:	LIONAKIS 2017

TITLE
SITE FIRE ACCESS PLAN

SHEET
CS101



1 HORIZONTAL CONTROL PLAN

SCALE 1" = 20'-0"

Project Control Point List				
Point #	Raw Description	Elevation	Northing	Easting
15	CPS_CHISELED_"+"	13.444	5579.9800	4167.1040
19	CPS_PICKER_AT_SE_COR_TENNIS_PATH	12.802	5532.2140	3866.6070
23	CPS_CHISELED_"+"	12.215	5194.5130	3382.2310
28	CPS_MAG_NAIL	12.332	5620.7930	3526.1290
29	CPS_PICKER	13.203	5809.6670	3290.8760
40	CPS_CHISELED_"+"	12.230	5250.9756	4176.8497
41	CPS_CHISELED_"+"	13.204	5022.5552	3924.0572
42	CPS_CHISELED_"+"	15.312	4917.0212	4204.9414
43	CPS_CHISELED_"+"	14.760	4916.2685	4311.5336
44	CPS_CHISELED_"+"	17.332	4837.2808	4461.1100

Project Control Point List				
Point #	Raw Description	Elevation	Northing	Easting
45	CPS_CHISELED_"+"_IN_TC	21.093	4841.3937	4562.0922
46	CPS_CHISELED_"+"_IN_TC	21.721	4766.1696	4837.7181
47	CPS_CHISELED_"+"	12.441	5522.4670	4400.0220
48	CPS_CHISELED_"+"	13.049	5455.6250	4660.1280
49	CPS_CHISELED_"+"	14.921	5400.0590	4876.2490
50	CPS_CHISELED_"+"	16.140	5334.2780	5055.1640

Know what's below. Call before you dig.

COORDINATE NOTE: AS DRAWINGS MAY BE SUBJECT TO CHANGE FOR A VARIETY OF REASONS, CONTRACTOR SHOULD REVIEW COORDINATES PROVIDED ON THIS PLAN WITH APPROVED STRUCTURAL DRAWINGS, PRIOR TO STAKING.

GRAPHIC SCALE

30' 0 15' 30' 60'

(IN FEET) 1 inch = 30 feet

THIS DRAWING MAY HAVE BEEN ENLARGED OR REDUCED.

NORTH

LEGEND

COORDINATE LOCATION

COORDINATE NUMBER

COORDINATE LIST: SEE SHEET CS601

TBM LIST: SEE LEFT

RELEASE OF CAD FILES

CAD FILES WILL BE AVAILABLE UPON REQUEST AND WITH SIGNED ELECTRONIC FILE RELEASE AGREEMENT TO BE PROVIDED. WARREN CONSULTING ENGINEERS, INC. WILL PROVIDE SUCH CAD FILES WITHIN 2 WORKING DAYS OF RECEIPT OF SIGNED CAD RELEASE AGREEMENT. FILED WILL BE AUTOCAD, VERSION 2018.

IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY

0 1/4" 1/2" 1"

PLOT DATE: 12/7/2023 12:18:42 PM FILE: I:\23-087\CIVIL\DWG\23-087 - 106 - CS102.DWG

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REGISTERED PROFESSIONAL ENGINEER
ANTHONY J TASSANO
NO. C74698
STATE OF CALIFORNIA
12/07/2023

SEAL

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MARK	DATE	DESCRIPTION
-	8/18/2023	DSA SUBMITTAL
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MANAGEMENT

LIONAKIS PROJECT NO:	023040
DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	02-121610
COPYRIGHT:	LIONAKIS 2023

AGENCY

TITLE

HORIZONTAL CONTROL PLAN

SHEET

CS102

Construction Point List			
Point #	Raw Description	Northing	Easting
3000	BASE	5500.8593	3545.7674
3001	BASE	5414.1020	3521.8264
3002	BASE	5390.1610	3608.5837
3003	BASE	5476.9183	3632.5247
3004	BASE	5048.6684	3870.8270
3005	BASE	5106.7809	3885.7581
3006	BASE	5121.7119	3827.6455
3007	BASE	5063.5994	3812.7145
3008	FOUL.POLE	5227.5566	3916.7511
3009	FOUL.POLE	5094.7830	3691.3459
3010	FOUL.POLE	5202.0282	3463.3038
3011	FOUL.POLE	5418.3959	3844.5981
3012	TW@AP	5601.7679	3485.4290
3013	TW@AP	5582.4658	3525.0933
3014	TW@AP	5441.1832	3440.9400
3015	TW@AP	5437.9767	3452.5133
3016	TW@AP	5412.0366	3445.3550
3017	TW@AP	5414.2652	3437.2788
3018	TW@AP	5406.1890	3435.0502
3019	TW@AP	5403.9604	3443.1264
3020	TW@AP	5381.5927	3436.9539
3021	TW@AP	5375.5631	3458.8039
3022	TW@AP	5534.3868	3502.6319
3023	TW@AP	5555.1235	3538.9666
3024	TW@AP	5515.0181	3684.3004
3058	BFC@END	4990.6596	4127.6561
3059	BFC@RAMP	4984.5025	4126.0777
3060	BFC@RAMP	4977.7212	4124.3458
3061	BFC@RAMP	4978.9728	4119.4582
3062	BFC@RAMP	4985.2693	4121.0718
3063	BFC@AP	4996.4370	4077.4923
3064	BFC@AP	4998.7301	4068.7763
3065	BFC@AP	5000.9044	4060.0561
3066	BFC@AP	5002.8449	4060.5399
3067	BFC@AP	5036.1026	3930.7326
3068	BFC@RAMP	5034.9891	3935.0786
3069	BFC@RAMP	5033.5046	3940.6183
3070	BFC@RAMP	5032.2556	3945.7477
3071	BFC@RAMP	5030.7660	3951.5617
3072	BFC@AP	5018.6658	3926.2652
3073	BFC@AP	5019.7826	3921.9061
3074	TW@RAMP	5039.7970	3942.5162
3075	TW@RAMP	5038.5527	3947.3589
3076	TW@AP	5034.9621	3957.3442
3077	TW@AP	5005.8150	4071.1077
3078	TW@AP	5004.3729	4070.7382
3079	TW@BLDG	5001.6590	4081.3310
3080	TW@BLDG	4994.4190	4108.7860
3081	TW@AP	5001.2091	4110.6099
3082	TW@AP	4999.7176	4116.5916
3083	TW@AP	5077.6113	4135.9992
3084	TW@AP	5075.7471	4143.2640
3085	TW@AP	4991.9542	4122.4355
3086	BFC@BC	4984.8153	4074.5020
3087	BFC@BC	4987.0493	4065.7836
3088	BFC@BC	4982.1817	4068.6657
3089	BFC@BC	4981.9335	4069.6344
3090	BLDG.COR	5067.1740	3944.0421
3091	BLDG.COR	5046.3504	3938.6918
3092	APRON@AP	5048.2168	3949.4962
3093	APRON@AP	5049.5856	3949.8479
3094	TW@AP	5066.1384	3954.1008
3095	TW@AP	5070.4103	3937.4741
3096	TW@AP	5076.6232	3930.4654
3097	TW@AP	5074.5491	3938.5372
3098	TW@AP	5070.9378	3921.5489
3099	TW@AP	5109.9419	4007.8590
3100	TW@AP	5121.0128	3941.8705
3101	TW@AP	5121.6949	3962.1224
3102	TW@AP	5124.1162	3962.7580
3103	TW@AP	5131.2807	3934.8733
3104	TW@AP	5136.1234	3936.1175
3105	TW@AP	5139.3584	3923.5265
3106	TW@AP	5034.2325	3896.5162
3107	TW@AP	5019.2017	3871.0910
3108	TW@AP	5049.1876	3754.4237
3109	TW@AP	5026.9116	3748.6985
3110	TW@AP	5028.6956	3741.7572
3111	TW@AP	5019.9789	3739.5169
3112	TW@AP	4981.5770	3906.3901
3113	TW@AP	4997.5490	3910.4939
3114	TW@AP	4996.3236	3915.3427
3115	TW@AP	5104.1947	4007.3277
3116	APRON@AP	5059.8035	3995.9207
3117	SAWCUT	5112.3664	4008.4821
3118	FLAGPOLE	5003.1931	3896.3421
3119	FLAGPOLE	5565.1467	3503.3874
3120	TW@AP	5568.3536	3547.8297
3121	TW@AP	5566.2398	3555.4896
3122	TW@AP	5558.9565	3553.4798
3123	TW@AP	5561.0703	3545.8199
3124	TW@AP	5557.7847	3586.1292
3125	TW@AP	5555.6709	3593.7891

Construction Point List			
Point #	Raw Description	Northing	Easting
3126	TW@AP	5548.3876	3591.7792
3127	TW@AP	5550.5014	3584.1193
3128	TW@AP	5549.3296	3616.7687
3129	TW@AP	5547.2158	3624.4286
3130	TW@AP	5539.9325	3622.4188
3131	TW@AP	5542.0463	3614.7589
3132	TW@AP	5533.5763	3486.7323
3133	TW@AP	5531.5664	3494.0156
3134	TW@AP	5523.9059	3491.9017
3135	TW@AP	5525.9157	3484.6183
3136	TW@AP	5495.2734	3476.1625
3137	TW@AP	5493.2636	3483.4458
3138	TW@AP	5485.6030	3481.3319
3139	TW@AP	5487.6129	3474.0485
3140	TW@AP	5464.6312	3467.7066
3141	TW@AP	5462.6213	3474.9900
3142	TW@AP	5454.9607	3472.8760
3143	TW@AP	5456.9706	3465.5927
3144	TBC@AP	5474.3651	3834.1247
3145	TBC@AP	5239.7237	3420.6269
3146	CURB@AP	5297.9802	3436.7030
3147	CURB@AP	5303.8325	3415.4957
3148	TW@AP	5330.0964	3401.8562
3149	CURB@AP	5490.7042	3774.9152
3150	CURB@AP	5494.0156	3762.9155
3151	CURB@AP	5506.3865	3766.3293
3152	TW@AP	5528.0685	3687.7581
3153	CURB@END	5506.6590	3779.3180
3154	TBC.MID	5186.7425	3724.0145
3155	TBC@FOUL	5418.5178	3845.7573
3156	TBC@FOUL	5201.0883	3462.6132
3157	CURB@FOUL	5095.0648	3690.2138
3158	CURB@FOUL	5228.6806	3917.0645
3159	TBC.MID	5208.8656	3775.9862
3160	TBC@END	5612.7083	3548.3401
3161	TW@AP	5539.6169	3680.3689
3162	TW@AP	5566.0121	3703.9060
3163	TW@AP	5572.0298	3705.5074
3164	BLDG.COR	5561.2398	3484.2032
3165	BLDG.COR	5592.0867	3492.7158
3166	TW@AP	5634.6424	3553.8429
3167	SAWCUT	5635.8141	3549.5863
3168	SAWCUT	5636.0401	3494.8540
3169	SAWCUT	5629.4845	3518.6685
3170	SAWCUT	5630.5184	3514.9125
3171	TW@AP	5549.9173	3791.2553
3172	TW@AP	5536.6907	3787.6053
3173	TW@AP	5561.8097	3696.5789
3174	TW@AP	5575.9662	3690.4865
3175	CURB@END	5187.8727	3978.4936
3176	CURB@AP	5198.2736	3939.3520
3177	CURB@AP	5219.1555	3944.7173
3178	CURB@AP	5066.3064	3685.1408
3179	CURB@AP	5063.7266	3695.1779
3180	CURB@AP	5042.0963	3689.6185
3181	TW@AP	5021.8485	3916.7372
3182	CURB@AP	5195.2045	3951.2974
3183	TW@AP	5590.2311	3527.2361
3184	TBC@AP	5585.9280	3540.9499
3185	TBC@END	5578.6447	3538.9401
3186	TW@AP	5072.8893	3914.2494
3187	TW@AP	5062.8467	3919.4700
3188	TW@AP	5064.7981	3912.1705
3189	TW@AP	5010.2727	3868.7968
3190	TW@AP	5008.5398	3875.5394
3191	TW@AP	4999.6108	3873.2452
3192	TW@AP	5001.3438	3866.5027
3193	TW@AP	5018.5915	3836.4309
3194	TW@AP	5020.6711	3828.3394
3195	TW@AP	5011.7422	3826.0453
3196	TW@AP	5009.6625	3834.1368
3197	TW@AP	5018.8289	3761.4214
3198	TW@AP	5014.6265	3760.3417
3199	TC@AP	5198.4395	3938.7064
3200	TBC@END	5035.1779	3677.1401
3201	TW@AP	5039.0323	3921.1523
3202	TW@AP	5555.2199	3472.6016
3203	TW@AP	5552.0086	3483.9808
3204	TW@AP	5543.2467	3481.5629
3205	TW@AP	5546.4075	3470.1089
3206	DUGGOUT	5449.5908	3462.4612
3207	DUGGOUT	5396.2511	3447.7419
3208	DUGGOUT	5016.0217	3818.5190
3209	DUGGOUT	5029.9618	3764.2818
3210	SAWCUT	5081.6627	4119.7702
3211	SAWCUT	5082.3884	4116.8593
3212	SAWCUT	5244.5312	4161.6176
3213	SAWCUT	5245.2570	4158.7067
3214	SAWCUT	5077.7409	4143.7466
3215	SAWCUT	5079.4956	4136.7088
3216	SAWCUT	4975.2858	4125.7942
3217	SAWCUT	4977.5205	4117.0215
3218	SAWCUT	4990.1758	4129.5940

Construction Point List			
Point #	Raw Description	Northing	Easting
3219	SAWCUT	4978.5084	4074.9443
3220	SAWCUT	4981.8881	4061.7533
3221	SAWCUT	4994.0036	4078.9314
3222	SAWCUT	5027.2158	3957.3601
3223	SAWCUT	5009.7790	3952.8927
3224	SAWCUT	5017.8427	3921.4192
3225	CURB@END	5209.1181	3983.7833
3226	CURB@AP	5098.1279	3662.3444
3227	TW@AP	5073.7743	3656.0850
3228	TW@AP	5044.8285	3648.6304
3229	TW@AP	5037.3570	3677.7002
3230	CURB@AP	5091.2099	3689.2602
3231	TW@AP	5123.8889	3356.9393
3232	TW@AP	5132.9416	3324.1957
3233	TW@AP	5149.3269	3328.7258
3234	TW@AP	5154.6565	3309.4490
3235	TW@AP	5172.4875	3314.3788
3236	TW@AP	5161.2958	3354.8602
3237	TW@AP	5158.1077	3366.3920
3238	TW@AP	5172.0231	3370.2361
3239	TW@AP	5207.9273	3411.8526
3240	TW@AP	5241.0538	3415.8071
3241	TW@AP	5286.3906	3428.3180
3242	TW@AP	5289.8804	3434.4679
3243	TW@AP	5297.9678	3405.1607
3244	TW@AP	5293.1480	3403.8306
3245	TW@AP	5327.0517	3413.2322
3246	TW@ALIGN	5250.9558	3379.9241
3247	TRC@AP	5248.4860	3391.3804
3248	TRC@AP	5216.0505	3382.3590
3249	TW@AP	5215.7850	3383.3232
3250	TW@AP	5247.5777	3392.1658
3251	TC@AP	5509.8934	3766.7783
3252	TC@AP	5531.4169	3688.6485
3253	TC@AP	5540.1350	3775.1236
3254	TW@AP	5544.0705	3783.4176
3255	TW@AP	5551.5133	3785.4715
3256	CNTR.WALL@END	5549.1739	3735.4038
3257	CNTR.WALL@END	5523.1467	3728.2215
3258	TW@ELIGN	5564.3808	3687.2618
3259	TW@AP	5603.3818	3479.5805
3260	TW@AP	5556.8660	3466.7440
3261	APRON@AP	5189.1871	3479.8942
3262	APRON@AP	5145.1587	3467.7708
3263	TW@ALIGN	5127.0791	3345.4002

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REGISTERED PROFESSIONAL ENGINEER
ANTHONY J. TASSANO
NO. C74698
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SEAL

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CLIENT

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

3500 FLORIN ROAD, SACRAMENTO, CA 95823

ISSUED

MARK	DATE	DESCRIPTION
-	8/18/2023	DSA SUBMITTAL
	12/7/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

LIONAKIS PROJECT NO:	023040
DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	02-121610
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AGENCY

TITLE

CONSTRUCTION POINT LIST

SHEET

CS601

IF THIS SHEET IS NOT 30"X42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY

0 1/4" 1/2" 1"

PLOT DATE: 12/7/2023 12:19:14 PM FILE: I:\23-087\CIVIL\DWG\23-087 - 106 - CS102.DWG

PLOT DATE: 12/7/2023 12:19:14 PM FILENAME:I:\23-087\CIVIL\DWG\23-087 - 106 - CS102.DWG

1 ENGINEERED FILL PLAN

SCALE 1" = 40'-0"

ENGINEERED FILL GENERAL NOTES

1. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE GEOTECHNICAL ENGINEERING REPORT:
   REPORT TITLE: C.K. McClatchy High School Athletic Field Improvements
   COMPANY: Universal Engineering Services REPORT DATE: September 15, 2023
   CONTACT: Joseph R. Ybarra PHONE: (916) 372-1434 PROJ NO. 4630.2300087.0016
2. IN THE EVENT THAT ANY UNUSUAL CONDITIONS NOT COVERED BY THE GEOTECHNICAL INVESTIGATION REPORT OR ARE ENCOUNTERED DURING GRADING OPERATIONS THE GEOTECHNICAL ENGINEER AND THE ARCHITECT SHALL BE IMMEDIATELY NOTIFIED FOR DIRECTIONS.
3. NO BURNING OR BLASTING SHALL BE PERMITTED, UNLESS APPROVED BY THE ARCHITECT AND CITY ENGINEER, AND GEOTECHNICAL ENGINEER OF RECORD.
4. THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THESE PLANS WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS, AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, WARREN CONSULTING ENGINEERS CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES, NOR FOR THE EXISTENCE OF OTHER BURIED OBJECTS OR UTILITIES WHICH MAY BE ENCOUNTERED BUT WHICH ARE NOT SHOWN ON THESE DRAWINGS. THE CONTRACTOR OR ANY SUBCONTRACTOR FOR THIS CONTRACT SHALL NOTIFY THE DISTRICT TWO (2) WORKING DAYS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK IN ORDER TO VERIFY TO THE GREATEST EXTENT POSSIBLE THE EXISTING UTILITY LINES, CONFLICTS AND PROPOSED UTILITY CONNECTION POINTS.
5. NATIVE SOILS ARE EXPECTED TO BE CLAYEY IN NATURE WITH HIGH TO MEDIUM EXPANSION POTENTIAL AND NOT SUITABLE FOR DIRECT SUPPORT OF INTERIOR AND EXTERIOR FLATWORK AND SUBGRADES WITHOUT PROCESSING AND TREATMENT, OR SIGNIFICANT BASE/PAVEMENT SECTIONS AS INDICATED. SOILS MAY BE WET WHEN EXCAVATED AND WILL NEED MOISTURE CONDITIONING PROCEDURES PRIOR TO EFFECTIVE GRADING AND COMPACTION.
6. SITE SHALL BE CLEARED AND STRIPPED IN ACCORDANCE WITH THE DEMOLITION PLAN AND PROJECT SPECIFICATIONS. ANY ABNORMAL CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR DIRECTION.
7. DUE TO PROJECT SCHEDULE, WEATHER OR OTHER SITUATIONS, OTHER SUBGRADE STABILIZATION METHODS MAY BE ENTERTAINED THROUGH THE RFI PROCESS, BUT SHALL BE REVIEWED AND BASED ON RECOMMENDATIONS BY THE SITE GEOTECHNICAL ENGINEER PROVIDE TO FILING THE REQUEST. INCLUDE FIELD REPORT WITH RECOMMENDATIONS FROM SITE GEOTECHNICAL ENGINEER IN REQUEST.
8. ALL FILL MATERIAL, NATIVE PROCESSED ONSITE MATERIAL OR IMPORTED, SHALL BE REVIEWED AND APPROVED BY THE SITE GEOTECHNICAL ENGINEER BEFORE USED AS ENGINEERED FILL.
9. SURFACE AND SUBSURFACE SOILS ARE NOT CONSIDERED TO BE SIGNIFICANTLY CORROSIVE TO BURIED METAL OR CONCRETE ELEMENTS OR COMPONENTS OF THE SITE DEVELOPMENT SUCH AS UTILITIES. SPECIAL MITIGATION MEASURES OR PROTECTION SYSTEMS ARE NOT FOUND NECESSARY FOR THIS REASON.
10. IF IMPORTED MATERIALS ARE TO BE USED AS FILLS, IT SHALL MEET THE FOLLOWING CHARACTERISTICS:
    1. PLASTICITY INDEX SHALL BE 15 OR LESS.
    2. AN EXPANSION INDEX OF 20 OR LESS
    3. SHALL NOT CONTAIN ROCKS OR PARTICLES LARGER THAN 3 INCHES IN DIAMETER.
    4. CONTAIN SUFFICIENT BINDER TO PREVENT CAVING WHEN EXCAVATED.
    5. SHALL BE DOCUMENTED CLEAN OF CONTAMINATION OR SIGNIFICANT CONCENTRATIONS OF ORGANIC MATERIAL, NO MORE THAN 3% BY WEIGHT.
    6. SHALL BE DOCUMENTED OR CERTIFIED NON-CORROSIVE, WITHIN ACCEPTABLE LIMITS, (LESS THAN 0.05% SULFATES BY WEIGHT AND MIN. RESISTIVITY OF >3,000 OHMS-CM.
    5. MEETS OR EXCEEDS DTSC REQUIREMENTS FOR USE ON A SCHOOL SITE.

    ALL IMPORTED FILLS SHALL BE APPROVED BY THE SITE GEOTECHNICAL ENGINEER PRIOR TO TRANSPORTATION TO THE SITE AND PRIOR TO AQUISITION BY THE CONTRACTOR, NO ADDITIONAL COSTS WILL BE GRANTED TO THE CONTRACTOR FOR EXTRA PROCUREMENT WORK AS A RESULT OF REJECTED IMPORT SOILS.
11. TEMPORARY CONTRACTOR STAGING / LAY DOWN SPACES TO BE UTILIZED BY CONTRACTOR SHALL BE RETURNED TO EXISTING CONDITIONS OR GREATER TO THE SATISFACTION OF THE SCHOOL DISTRICT, AND SHALL BE COMPLETED AT THE CONTRACTORS EXPENSE. CONTRACTOR SHALL TEST IRRIGATION SYSTEMS WITH OWNER PRIOR TO THE START OF CONSTRUCTION TO DETERMINE ALL OPERATIONAL AND NON-OPERATIONAL SYSTEMS. CONTRACTOR IS RESPONSIBLE FOR REPAIR OF ALL IRRIGATION SYSTEMS WITHIN THE LIMITS OF WORK BROKEN DURING CONSTRUCTION.
12. ALL DAMAGE CAUSED DURING THE COURSE OF CONSTRUCTION TO ROADS AND ACCESS WAYS USED BY CONSTRUCTION EQUIPMENT INTO AND OUT OF THE SITE SHALL BE REPAIRED AFTER CONSTRUCTION IS COMPLETE. IT IS HIGHLY RECOMMENDED PHOTO DOCUMENTATION OF EXISTING CONDITIONS IS PERFORMED BY CONTRACTOR PRIOR TO CONSTRUCTION.

ORGANIC STRIPPINGS

STRIPPINGS AND SOIL CONTAINING ORGANIC MATERIAL (>3%) SHOULD NOT BE USED IN GENERAL FILL CONSTRUCTION AREAS SUPPORTING STRUCTURES, INTERIOR/EXTERIOR CONCRETE SLABS, AND ASPHALT AND CONCRETE FLATWORK. WITH PRIOR APPROVAL BY THE LANDSCAPE ARCHITECT ON A CASE-BY-CASE BASIS, AND FOLLOWING REVIEW OF FIELD SOILS CONDITIONS, STRIPPINGS AND SOIL CONTAINING ORGANIC MATERIAL MAY BE USED IN LANDSCAPE AREAS, PROVIDED THEY ARE KEPT AT LEAST FIVE FEET FROM THE BUILDING PADS AND OTHER SURFACE IMPROVEMENTS, MOISTURE CONDITIONED, AND COMPACTED

SOIL MOISTURE

ONSITE SOILS WILL LIKELY BE MORE SATURATED IN FALL, WINTER AND SPRING MONTHS. SOILS BENEATH EXISTING PAVEMENTS MAY BE SATURATED REGARDLESS OF TIME OF YEAR. THEY WILL NOT BE COMPATIBLE WITHOUT AERATION, CHEMICAL TREATMENT OR REMOVAL AND REPLACEMENT. CONTRACTOR SHOULD ANTICIPATE THIS IN THE CONSTRUCTION SCHEDULE AND MAKE ARRANGEMENTS TO PERFORM THIS WORK AS NEEDED. OFTEN, A PERIOD OF AT LEAST ONE MONTH OF WARM AND DRY WEATHER IS NECESSARY TO ALLOW THE SITE TO DRY SUFFICIENTLY SO THAT HEAVY GRADING EQUIPMENT CAN OPERATE EFFECTIVELY AND REQUIRED COMPACTION CAN BE ACHIEVED. CONVERSELY, DURING THE SEASONAL DRY PERIOD (TYPICALLY SUMMER AND FALL), DRY SOILS MAY REQUIRE ADDITIONAL GRADING EFFORT (DISCING OR OTHER MEANS) TO ATTAIN PROPER MOISTURE CONDITIONING.

GRAPHIC SCALE

40' 0 20' 40' 80'

(IN FEET) 1 inch = 40 feet

NORTH

THIS DRAWING MAY HAVE BEEN ENLARGED OR REDUCED.

811 Know what's below. Call before you dig.

ENGINEERED FILL LEGEND

1

BUILDING PAD AREA SUBGRADE PREPARATION

FOLLOWING THE SITE DEMOLITION AND STRIPPING AS OUTLINED IN THESE PLANS AND PROJECT SPECIFICATIONS, EXCAVATE AS NEEDED TO PROPOSED SUBGRADE ELEVATION. CONTRACTOR SHALL CONSULT ONSITE GEOTECHNICAL ENGINEER TO ENSURE THAT NO LOOSE FILLS ARE PRESENT AT THIS STAGE WHICH REQUIRE ADDITIONAL EXCAVATION. IF PRESENT, CONTRACTOR SHALL OVER-EXCAVATE TO FIRM NATIVE SOILS. OVER-EXCAVATION DEPTH SHALL BE UNIFORM AND NO "SLOT CUTTING" BELOW FOUNDATIONS ELEMENTS WILL BE ALLOWED. BACKFILL SUCH OVER-EXCAVATIONS WITH NON-EXPANSIVE ENGINEERED FILL PER SECTION 31 00 00.

FOLLOWING EXCAVATION TO SUBGRADE, CONTRACTOR SHALL TREAT, GRADE AND COMPACT THE UPPER 12" (MINIMUM) WITH LIME IN ACCORDANCE WITH SECTION 31 32 00.

FOLLOWING LIME TREATMENT AND CURING, CONTRACTOR SHALL COVER AND PROTECT BUILDING PADS FROM MOISTURE LOSS IF INTENDED TO SIT FOR LONG PERIODS (EXCESS OF 1 WEEK). COVERINGS/METHODS SHALL BE PLASTIC SHEETING OR OTHER COVERINGS, OR BASE ROCK OR OTHER CAPILLARY BREAK APPROVED BY THE SITE GEOTECHNICAL ENGINEER.

THE LIMITS OF SUBGRADE PREPARATION SHALL EXTEND AT LEAST 5 FEET BEYOND EDGE OF PROPOSED BUILDING OR FOUNDATION ELEMENTS. THIS TREATMENT SHALL OVERRIDE ALL TREATMENTS LISTED BELOW WHEN OVERLAPPING CONDITIONS EXIST.

UTILITIES SHOULD BE INSTALLED PRIOR TO LIME TREATMENT TO THE MAXIMUM PRACTICAL EXTENT. ANY TRENCHING PERFORMED THROUGH THE LIME SHALL COMPLY WITH SECTION 31 32 00 AND 31 23 33. LIME TREATED AND CURED SOIL THAT IS RE-EXCAVATED MAY NOT BE RE-USED UNLESS RE-TREATED AND CURED WITH LIME. IT IS RECOMMENDED IT BE REMOVED FROM THE SITE. CONTRACTOR MAY BE REQUIRED TO MIX THIS SOIL WITH NON-LIME TREATED SOIL UNTIL THE PH IS AT AN ACCEPTABLE LEVEL TO BE RECEIVED, AND CONTRACTOR SHALL PERFORM THIS STEP AS NEEDED.

2

CONCRETE FLATWORK SUBGRADE PREPARATION

FOLLOWING THE SITE DEMOLITION AND STRIPPING AS OUTLINED IN THESE PLANS AND PROJECT SPECIFICATIONS, EXCAVATE AS NEEDED TO PROPOSED SUBGRADE ELEVATION. CONTRACTOR SHALL CONSULT ONSITE GEOTECHNICAL ENGINEER TO ENSURE THAT NO LOOSE FILLS ARE PRESENT AT THIS STAGE WHICH REQUIRE ADDITIONAL EXCAVATION. IF PRESENT, CONTRACTOR SHALL OVER-EXCAVATE TO FIRM NATIVE SOILS. OVER-EXCAVATION DEPTH SHALL BE UNIFORM AND NO "SLOT CUTTING" BELOW FOUNDATIONS ELEMENTS WILL BE ALLOWED. BACKFILL SUCH OVER-EXCAVATIONS WITH NON-EXPANSIVE ENGINEERED FILL PER SECTION 31 00 00.

FOLLOWING EXCAVATION TO SUBGRADE, CONTRACTOR SHALL MAY PROCEED WITH EITHER OF THE FOLLOWING OPTIONS:

OPTION 1
TREAT, GRADE AND COMPACT THE UPPER 12" (MINIMUM) WITH LIME IN ACCORDANCE WITH SECTION 31 32 00.

FOLLOWING LIME TREATMENT AND CURING, CONTRACTOR SHALL COVER AND PROTECT BUILDING PADS FROM MOISTURE LOSS IF INTENDED TO SIT FOR LONG PERIODS (EXCESS OF 1 WEEK). COVERINGS/METHODS SHALL BE PLASTIC SHEETING OR OTHER COVERINGS, OR BASE ROCK OR OTHER CAPILLARY BREAK APPROVED BY THE SITE GEOTECHNICAL ENGINEER.

UTILITIES SHOULD BE INSTALLED PRIOR TO LIME TREATMENT TO THE MAXIMUM PRACTICAL EXTENT. ANY TRENCHING PERFORMED THROUGH THE LIME SHALL COMPLY WITH SECTION 31 32 00 AND 31 23 33. LIME TREATED AND CURED SOIL THAT IS RE-EXCAVATED MAY NOT BE RE-USED UNLESS RE-TREATED AND CURED WITH LIME. IT IS RECOMMENDED IT BE REMOVED FROM THE SITE. CONTRACTOR MAY BE REQUIRED TO MIX THIS SOIL WITH NON-LIME TREATED SOIL UNTIL THE PH IS AT AN ACCEPTABLE LEVEL TO BE RECEIVED, AND CONTRACTOR SHALL PERFORM THIS STEP AS NEEDED.

OPTION 2
NOTE: THIS METHOD SHALL NOT BE THE BASIS OF BID AS IT IS ANTICIPATED TO BE COMPLETED DURING WET MONTHS WHERE SUBGRADES ARE LIKELY TO BE MORE SATURATED. BASIS OF BID SHALL BE OPTION 1.

SCARIFY THE UNDERLYING SOIL TO A DEPTH OF 12", MOISTURE CONDITION TO 2% ABOVE THE OPTIMUM AND RE-COMPACT TO 90% RELATIVE COMPACTION. IF SHALLOW UTILITIES MAKE SCARIFICATION AND RE-COMPACTION REASONABLY DIFFICULT, WITH ENGINEER APPROVAL, CONTRACTOR MAY REDUCE SCARIFICATION AND RE-COMPACT TO 6" DEEP (OR LESS WITH ONSITE GEOTECHNICAL ENGINEER APPROVAL), AND USE ONLY A STATIC ROLLER.

ONCE COMPACTED, IF 90% IS NOT ACHIEVED, OR SCARIFICATION DEPTH IS REDUCED BELOW 12", PROVIDE TENSAR BX1100 OR TX140 GEOGRID AND 12" OF CALTRANS CLASS II AB, IN 6" LIFTS, EACH MOISTURE CONDITION AND COMPACTED TO 95% UNTIL SUBGRADE ELEVATION IS ACHIEVED.

THE LIMITS OF SUBGRADE PREPARATION SHALL EXTEND AT LEAST 2 FEET BEYOND EDGE OF PROPOSED PAVEMENT OR FLATWORK LIMITS. THIS TREATMENT SHALL OVERRIDE ALL TREATMENTS LISTED BELOW WHEN OVERLAPPING CONDITIONS EXIST.

3

ASPHALT PAVING SUBGRADE PREPARATION

FOLLOWING THE SITE DEMOLITION AND STRIPPING AS OUTLINED IN THESE PLANS AND PROJECT SPECIFICATIONS, EXCAVATE AS NEEDED TO PROPOSED SUBGRADE ELEVATION. CONTRACTOR SHALL CONSULT ONSITE GEOTECHNICAL ENGINEER TO ENSURE THAT NO LOOSE FILLS ARE PRESENT AT THIS STAGE WHICH REQUIRE ADDITIONAL EXCAVATION. IF PRESENT, CONTRACTOR SHALL OVER-EXCAVATE TO FIRM NATIVE SOILS. OVER-EXCAVATION DEPTH SHALL BE UNIFORM AND NO "SLOT CUTTING" BELOW FOUNDATIONS ELEMENTS WILL BE ALLOWED. BACKFILL SUCH OVER-EXCAVATIONS WITH NON-EXPANSIVE ENGINEERED FILL PER SECTION 31 00 00.

FOLLOWING EXCAVATION TO SUBGRADE, CONTRACTOR SHALL MAY PROCEED WITH EITHER OF THE FOLLOWING OPTIONS:

OPTION 1
TREAT, GRADE AND COMPACT THE UPPER 12" (MINIMUM) WITH LIME IN ACCORDANCE WITH SECTION 31 32 00.

FOLLOWING LIME TREATMENT AND CURING, CONTRACTOR SHALL COVER AND PROTECT BUILDING PADS FROM MOISTURE LOSS IF INTENDED TO SIT FOR LONG PERIODS (EXCESS OF 1 WEEK). COVERINGS/METHODS SHALL BE PLASTIC SHEETING OR OTHER COVERINGS, OR BASE ROCK OR OTHER CAPILLARY BREAK APPROVED BY THE SITE GEOTECHNICAL ENGINEER.

UTILITIES SHOULD BE INSTALLED PRIOR TO LIME TREATMENT TO THE MAXIMUM PRACTICAL EXTENT. ANY TRENCHING PERFORMED THROUGH THE LIME SHALL COMPLY WITH SECTION 31 32 00 AND 31 23 33. LIME TREATED AND CURED SOIL THAT IS RE-EXCAVATED MAY NOT BE RE-USED UNLESS RE-TREATED AND CURED WITH LIME. IT IS RECOMMENDED IT BE REMOVED FROM THE SITE. CONTRACTOR MAY BE REQUIRED TO MIX THIS SOIL WITH NON-LIME TREATED SOIL UNTIL THE PH IS AT AN ACCEPTABLE LEVEL TO BE RECEIVED, AND CONTRACTOR SHALL PERFORM THIS STEP AS NEEDED.

OPTION 2
NOTE: THIS METHOD SHALL NOT BE THE BASIS OF BID AS IT IS ANTICIPATED TO BE COMPLETED DURING WET MONTHS WHERE SUBGRADES ARE LIKELY TO BE MORE SATURATED. BASIS OF BID SHALL BE OPTION 1.

SCARIFY THE UNDERLYING SOIL TO A DEPTH OF 12", MOISTURE CONDITION TO 2% ABOVE THE OPTIMUM AND RE-COMPACT TO 90% RELATIVE COMPACTION. IF SHALLOW UTILITIES MAKE SCARIFICATION AND RE-COMPACTION REASONABLY DIFFICULT, WITH ENGINEER APPROVAL, CONTRACTOR MAY REDUCE SCARIFICATION AND RE-COMPACT TO 6" DEEP (OR LESS WITH ONSITE GEOTECHNICAL ENGINEER APPROVAL), AND USE ONLY A STATIC ROLLER.

ONCE COMPACTED, IF 90% IS NOT ACHIEVED, OR SCARIFICATION DEPTH IS REDUCED BELOW 12", PROVIDE TENSAR BX1100 OR TX140 GEOGRID AND 12" OF CALTRANS CLASS II AB, IN 6" LIFTS, EACH MOISTURE CONDITION AND COMPACTED TO 95% UNTIL SUBGRADE ELEVATION IS ACHIEVED.

THE LIMITS OF SUBGRADE PREPARATION SHALL EXTEND AT LEAST 2 FEET BEYOND EDGE OF PROPOSED PAVEMENT OR FLATWORK LIMITS. THIS TREATMENT SHALL OVERRIDE ALL TREATMENTS LISTED BELOW WHEN OVERLAPPING CONDITIONS EXIST.

4

OTHER NON-PAVING EARTHWORK AREAS (LANDSCAPING)

FOLLOWING THE SITE DEMOLITION AND STRIPPING AS OUTLINED IN THESE PLANS AND PROJECT SPECIFICATIONS, EXCAVATE AS NEEDED TO PROPOSED SUBGRADE FOR TOPSOIL OR OTHER NON-PAVING SURFACING ELEVATION. CONTRACTOR SHALL CONSULT ONSITE GEOTECHNICAL ENGINEER TO ENSURE THAT NO LOOSE FILLS ARE PRESENT AT THIS STAGE WHICH REQUIRE ADDITIONAL EXCAVATION. IF PRESENT, CONTRACTOR SHALL OVER-EXCAVATE TO FIRM NATIVE SOILS.

CONTRACTOR SHALL SCARIFY UNDERLYING NATIVE SOILS TO A DEPTH OF 12 INCHES, MOISTURE CONDITION TO 2% ABOVE THE OPTIMUM MOISTURE CONTENT, AND RE-COMPACT TO 90% RELATIVE COMPACTION, PER ASTM D1557.

IF FILL NECESSARY TO REACH SUBGRADE, PLACE APPROVED ENGINEERED FILL (NATIVE OR IMPORT) IN LIFTS THAT DO NOT EXCEED 6" IN COMPACTED THICKNESS, EACH MOISTURE CONDITIONED AND COMPACTED AS SPECIFIED ABOVE. PLACE LIFTS AS IDENTIFIED UNTIL FINAL SUBGRADE ELEVATION IS ACHIEVED AND READY FOR TOPSOIL OR OTHER NON-PAVING SURFACING AS INDICATED.

MOISTURE CONTENT AND COMPACTION SHALL BE TESTED WITHIN 48 HOURS OF PLACEMENT OF TOPSOIL OR OTHER NON-PAVING TYPE SURFACING.

THE LIMITS OF PAVEMENT SUBGRADE PREPARATION SHALL EXTEND AT LEAST 2 FEET BEYOND EDGE OF PROPOSED PAVING LIMITS. THIS TREATMENT SHALL BE OVERRIDDEN BY ALL SUBGRADE PREPARATION LISTED ABOVE, WHEN OVERLAPPING CONDITIONS EXIST, AND OVERRIDE ALL THOSE LISTED BELOW.

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CONSULTANT
WCE
WARREN CONSULTING ENGINEERS, INC.
1117 WINDFIELD WAY, SUITE 110
EL DORADO HILLS, CA 95762 | (916) 985-1870
REGISTERED PROFESSIONAL ENGINEER ANTHONY J TASSANO NO. C74698 STATE OF CALIFORNIA
12/07/2023

SEAL

PROJECT
MC CLATCHY HIGH SCHOOL
ATHLETIC FIELD RENOVATION

3066 FREEPORT BLVD.
SACRAMENTO, CA 95818

CLIENT
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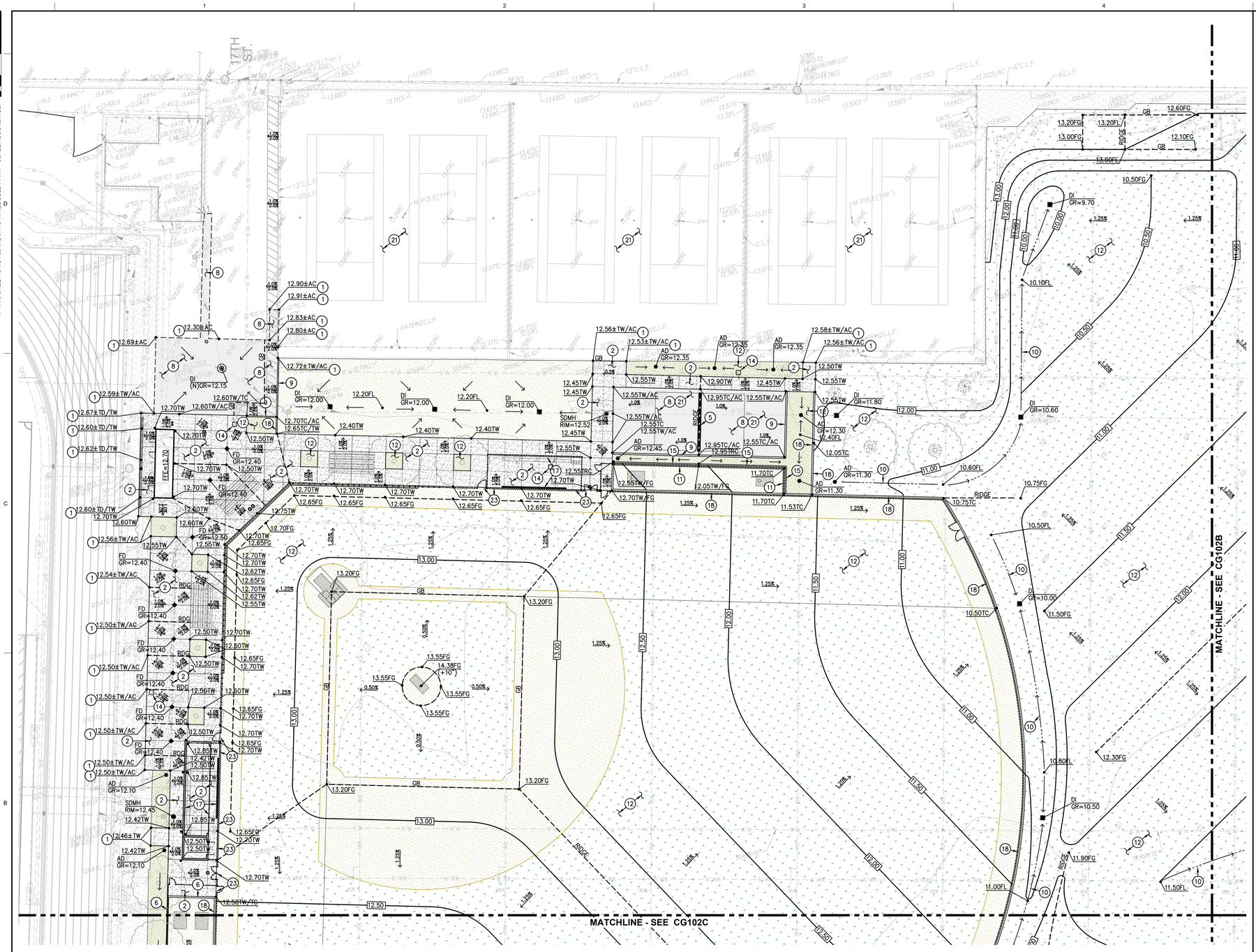
AGENCY

TITLE
ENGINEERED
FILL PLAN

SHEET
CG101



1 GRADING PLAN

SCALE 1" = 20'-0"

LEGEND

CJ = CONTROL JOINT

CONSTRUCTION NOTES

NOT ALL NOTES MAY BE USED ON THIS SHEET

1. MATCH EXISTING GRADE/ELEVATION. WHEN MATCHING NEW SLABS TO EXISTING, DOWEL SLABS PER THE DETAIL PROVIDED. DOWEL SPACING SHALL MATCH SLAB REINFORCING SPACING. (3/CS501)
2. PLACE CONCRETE PAVING PER THE TYPICAL DETAILS PROVIDED. REFER TO PAVING PLAN FOR SECTIONS. REFER TO SPECIFICATIONS SECTION 31 00 00 FOR SUBGRADE PREPARATION, SECTION 32 16 00 FOR CONCRETE PAVING. (1/CS501, 2/CS501, 3/CS501)
3. CONSTRUCT TYPE 1 ACCESSIBLE CURB RAMP PER THE DETAIL PROVIDED. (19/CS502)
4. CONSTRUCT CONCRETE CURB PER THE DETAIL PROVIDED. (5/CS501)
5. CONSTRUCT BALL WALL, REFER TO ARCH AND LANDSCAPE PLANS. FOR DETAILS.
6. CONSTRUCT 12" WIDE CONCRETE APRON WITH FENCING PER THE DETAIL PROVIDED. SEE ARCH. AND LANDSCAPE PLANS FOR NEW FENCING. (14/CS501)
7. CONSTRUCT TYPE 2 ACCESSIBLE CURB RAMP PER THE DETAIL PROVIDED. (20/CS502)
8. ASPHALT PAVING. REFER TO PAVING PLAN FOR SECTIONS. REFER TO SPECIFICATIONS SECTION 32 12 00 FOR MATERIALS AND CONSTRUCTION. REFER TO SECTION 31 00 00 FOR SUBGRADE PREPARATION. (8/CS501)
9. CONSTRUCT FLUSH CONCRETE CURB/EDGE PER THE DETAIL PROVIDED.
10. GRADE AND CONSTRUCT UNIFORM DRAINAGE SWALE IN FINISHED GRADE. RUNNING SLOPE SHALL BE NO LESS THAN 0.75%. SIDE SLOPE SHALL BE NO GREATER THAN 5H:1V. AFTER SWALES ARE GRADED, CONTRACTOR TO ENSURE LANDSCAPER DOES NOT ALTER, BLOCK OR OTHERWISE CHANGE SWALE IN A WAY THAT WOULD STOP FLOW.
11. CONSTRUCT 12" WIDE RAISED CONCRETE APRON AT NEW OR EXISTING FENCING PER THE DETAIL PROVIDED. SEE ARCH. AND LANDSCAPE PLANS FOR FENCING. (17/CS501)
12. PROVIDE TOPSOIL FOR NEW PLANTING, SEE PAVING PLAN AND LANDSCAPE PLANS FOR NEW PLANTING/SURFACING, SEE ALSO SPECIFICATION SECTIONS 31 00 00 AND 32 90 00.
13. PATCH BACK EXISTING LANDSCAPING ALONG EDGES OF WORK AND AREAS IDENTIFIED. MATCH EXISTING CONDITIONS. IF NO EXISTING LANDSCAPING PRESENT, PROVIDED EROSION HYDROSEED AT MINIMUM. SEE LANDSCAPE PLANS AND SPECIFICATION SECTIONS 31 00 00 AND 32 90 00.
14. REPACE EXISTING UTILITY BOX WITH NEW TRAFFIC RATED BOX SET AT PROPOSED FINISHED GRADE. BOX SIZE SHALL MEET OR EXISTING EXISTING VAULT SIZE. APPROVED BOXES BOXES SHALL BE JENSEN HT1017, HT1324, HT1730, HT2436 OR HT3048, OR APPROVED EQUAL. SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
15. CONSTRUCT CONCRETE RETAINING CURB PER THE DETAIL PROVIDED. (7/CS501)
16. CONSTRUCT TRENCH DRAIN, SEE DRAINAGE PLAN
17. SEE ARCHITECTURAL AND LANDSCAPE PLANS FOR ALL NEW DUGGOUT STRUCTURE, FENCES, WALLS AND OTHER DUGGOUT AMENITIES.
18. CONSTRUCT 6" WIDE CONCRETE PLANTING EDGE CURB PER THE DETAIL PROVIDED. (9/CS501)
19. NEW SYNTHETIC TURF, SEE PAVING PLAN
20. CONSTRUCT CONCRETE MATERIAL STORAGE ENCLOSURE PER THE DETAIL PROVIDED. (18/CS501)
21. SEE PAVING PLAN FOR NEW COURT SURFACING.
22. FOLLOWING LAWN REMOVAL, GRADE TO SMOOTH AND PLANE EXISTING GRADE TO A UNIFORM FINISH, FILL AND PROVIDE NEW TOPSOIL WHERE NEEDED, THEN AMEND AND PLACE NEW SOD OR SEED AS SPECIFIED IN LANDSCAPE PLANS.
23. GRADE LEVEL AND COMPACT INFIELD MIX AT PLAYER ENTRANCE POINTS FOR FLUSH TRANSITION PER THE DETAIL PROVIDED. (12/CS501)
24. CONSTRUCT CONCRETE APRON WITH SYNTHETIC TURF NAILER PER THE DETAIL PROVIDED. (17/CS502)
25. CONSTRUCT RAISED CONCRETE APRON WITH SYNTHETIC TURF NAILER PER THE DETAIL PROVIDED. (12/CS503)
26. CONSTRUCT RAISED CONCRETE CURB WITH 4' TALL CHAIN LINK FENCE PER THE DETAIL PROVIDED. (13/CS503)

PAVEMENT SLOPES

ALL PAVING SURFACES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE GENERAL PAVING SURFACE NOTES ON SHEET CS101, CLARIFIED AS FOLLOWS:
- CONCRETE FLATWORK, ALL – PER GENERAL PAVING SURFACE NOTES ON SHEET CS101
- ASPHALT PAVING, CROSSWALK – PER GENERAL PAVING SURFACE NOTES ON SHEET CS101
- ASPHALT PAVING, ACCESSIBLE PARKING & LOADING – 1.8% MAX ANY DIRECTION.
- ASPHALT PAVING, ACCESSIBLE LOADING VEHICLE SPACE – 1.8% MAX ANY DIRECTION.
- ASPHALT PAVING, NORMAL PARKING SPACES – 4.0% MAX ANY DIRECTION.
- ASPHALT PAVING, PARKING DRIVE ISLES – 4.0% MAX ANY DIRECTION.
- ASPHALT PAVING, PARKING ENTRANCE AND EXIT – 4.0% CROSS, 7.0% RUNNING.

CONSTRUCTION TOLERANCES HAVE BEEN FACTORED INTO THE DESIGN, HOWEVER, CONTRACTOR SHALL FIELD CHECK FORMS AS THEY ARE CONSTRUCTED, WHEN THEY ARE COMPLETE, AND ALSO PRIOR TO POURING.

811 Know what's below. Call before you dig.

GRAPHIC SCALE

20' 0 10' 20' 40'

(IN FEET) 1 inch = 20 feet

THIS DRAWING MAY HAVE BEEN ENLARGED OR REDUCED.

NORTH

LIONAKIS

2025 Nineteenth Street
Sacramento, CA 95818
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www.lionakis.com

CONSULTANT

WCE
WARREN CONSULTING ENGINEERS, INC.
1117 WINDFIELD WAY, SUITE 110
EL DORADO HILLS, CA 95762 | (916) 985-1870

REGISTERED PROFESSIONAL ENGINEER ANTHONY J TASSANO NO. C74628 STATE OF CALIFORNIA 12/07/2023

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MC CLATCHY HIGH SCHOOL
ATHLETIC FIELD RENOVATION

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AGENCY

TITLE

GRADING PLAN

SHEET

CG102A

PLOT DATE: 12/7/2023 12:48:59 PM FILE: I:\23-087\CIVIL\DWG\23-087 - 108 - CG102A-D.DWG

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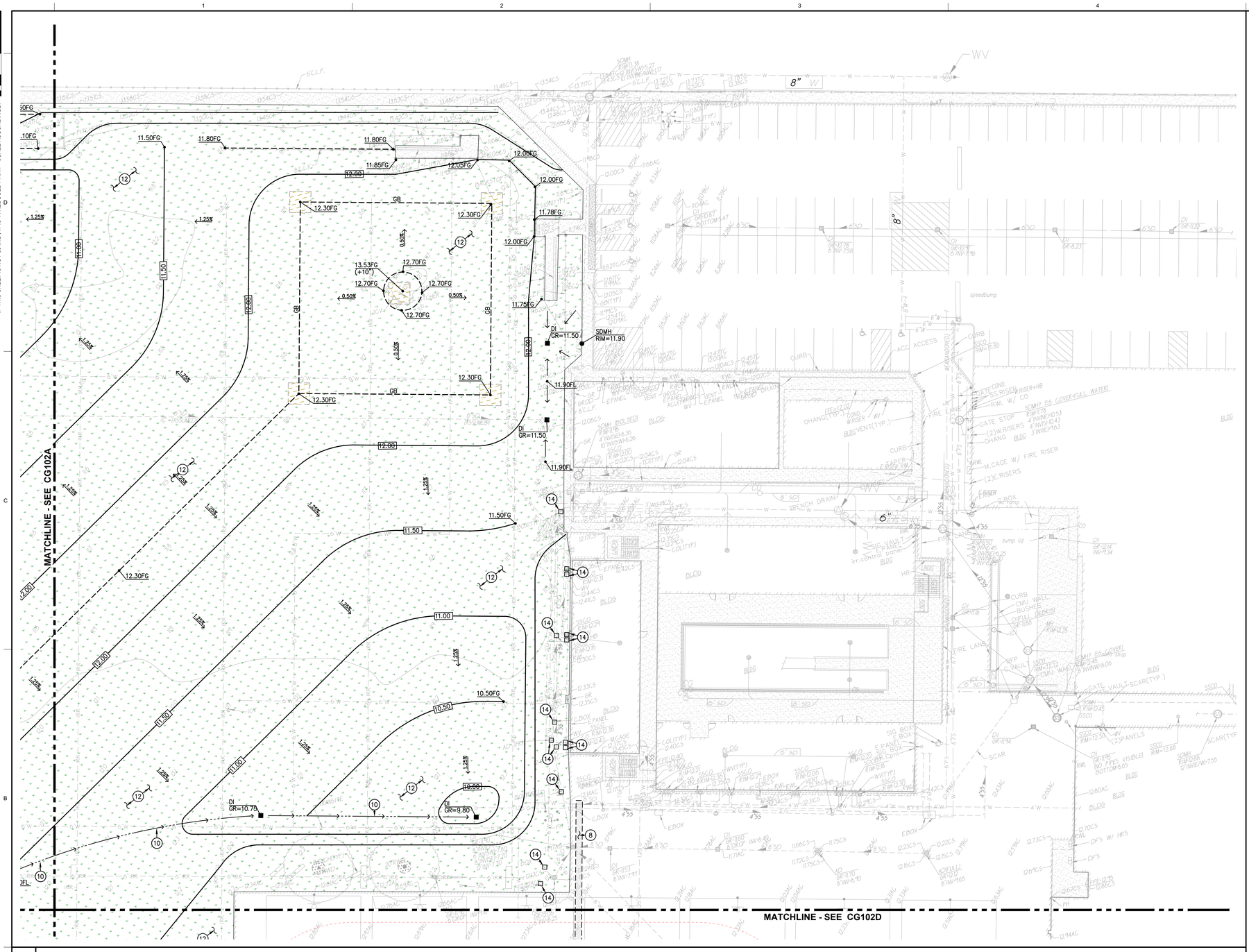

1 GRADING PLAN

SCALE 1" = 20'-0"

LEGEND

CJ EJ

CONSTRUCTION NOTES

NOT ALL NOTES MAY BE USED ON THIS SHEET

1. MATCH EXISTING GRADE/ELEVATION. WHEN MATCHING NEW SLABS TO EXISTING, DOWEL SLABS PER THE DETAIL PROVIDED. DOWEL SPACING SHALL MATCH SLAB REINFORCING SPACING. (3/CS501)
2. PLACE CONCRETE PAVING PER THE TYPICAL DETAILS PROVIDED. REFER TO PAVING PLAN FOR SECTIONS. REFER TO SPECIFICATIONS SECTION 31 00 00 FOR SUBGRADE PREPARATION, SECTION 32 16 00 FOR CONCRETE PAVING. (1/CS501, 2/CS501, 3/CS501)
3. CONSTRUCT TYPE 1 ACCESSIBLE CURB RAMP PER THE DETAIL PROVIDED. (19/CS502)
4. CONSTRUCT CONCRETE CURB PER THE DETAIL PROVIDED. (5/CS501)
5. CONSTRUCT BALL WALL, REFER TO ARCH AND LANDSCAPE PLANS. FOR DETAILS.
6. CONSTRUCT 12" WIDE CONCRETE APRON WITH FENCING PER THE DETAIL PROVIDED. SEE ARCH. AND LANDSCAPE PLANS FOR NEW FENCING. (14/CS501)
7. CONSTRUCT TYPE 2 ACCESSIBLE CURB RAMP PER THE DETAIL PROVIDED. (20/CS502)
8. ASPHALT PAVING. REFER TO PAVING PLAN FOR SECTIONS. REFER TO SPECIFICATIONS SECTION 32 12 00 FOR MATERIALS AND CONSTRUCTION. REFER TO SECTION 31 00 00 FOR SUBGRADE PREPARATION.
9. CONSTRUCT FLUSH CONCRETE CURB/EDGE PER THE DETAIL PROVIDED. (8/CS501)
10. GRADE AND CONSTRUCT UNIFORM DRAINAGE SWALE IN FINISHED GRADE. RUNNING SLOPE SHALL BE NO LESS THAN 0.75%. SIDE SLOPE SHALL BE NO GREATER THAN 5H:1V. AFTER SWALES ARE GRADED, CONTRACTOR TO ENSURE LANDSCAPER DOES NOT ALTER, BLOCK OR OTHERWISE CHANGE SWALE IN A WAY THAT WOULD STOP FLOW.
11. CONSTRUCT 12" WIDE RAISED CONCRETE APRON AT NEW OR EXISTING FENCING PER THE DETAIL PROVIDED. SEE ARCH. AND LANDSCAPE PLANS FOR FENCING. (17/CS501)
12. PROVIDE TOPSOIL FOR NEW PLANTING, SEE PAVING PLAN AND LANDSCAPE PLANS FOR NEW PLANTING/SURFACING, SEE ALSO SPECIFICATION SECTIONS 31 00 00 AND 32 90 00.
13. PATCH BACK EXISTING LANDSCAPING ALONG EDGES OF WORK AND AREAS IDENTIFIED. MATCH EXISTING CONDITIONS. IF NO EXISTING LANDSCAPING PRESENT, PROVIDED EROSION HYDROSEED AT MINIMUM. SEE LANDSCAPE PLANS AND SPECIFICATION SECTIONS 31 00 00 AND 32 90 00.
14. REPACE EXISTING UTILITY BOX WITH NEW TRAFFIC RATED BOX SET AT PROPOSED FINISHED GRADE. BOX SIZE SHALL MEET OR EXISTING EXISTING VAULT SIZE. APPROVED BOXES BOXES SHALL BE JENSEN HT1017, HT1324, HT1730, HT2436 OR HT3048, OR APPROVED EQUAL. SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
15. CONSTRUCT CONCRETE RETAINING CURB PER THE DETAIL PROVIDED. (7/CS501)
16. CONSTRUCT TRENCH DRAIN, SEE DRAINAGE PLAN
17. SEE ARCHITECTURAL AND LANDSCAPE PLANS FOR ALL NEW DUGGOUT STRUCTURE, FENCES, WALLS AND OTHER DUGGOUT AMENITIES.
18. CONSTRUCT 6" WIDE CONCRETE PLANTING EDGE CURB PER THE DETAIL PROVIDED. (9/CS501)
19. NEW SYNTHETIC TURF, SEE PAVING PLAN
20. CONSTRUCT CONCRETE MATERIAL STORAGE ENCLOSURE PER THE DETAIL PROVIDED. (18/CS501)
21. SEE PAVING PLAN FOR NEW COURT SURFACING.
22. FOLLOWING LAWN REMOVAL, GRADE TO SMOOTH AND PLANE EXISTING GRADE TO A UNIFORM FINISH, FILL AND PROVIDE NEW TOPSOIL WHERE NEEDED, THEN AMEND AND PLACE NEW SOD OR SEED AS SPECIFIED IN LANDSCAPE PLANS.
23. GRADE LEVEL AND COMPACT INFIELD MIX AT PLAYER ENTRANCE POINTS FOR FLUSH TRANSITION PER THE DETAIL PROVIDED. (12/CS501)
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26. CONSTRUCT RAISED CONCRETE CURB WITH 4' TALL CHAIN LINK FENCE PER THE DETAIL PROVIDED. (13/CS503)

PAVEMENT SLOPES

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- CONCRETE FLATWORK, ALL – PER GENERAL PAVING SURFACE NOTES ON SHEET CS101
- ASPHALT PAVING, CROSSWALK – PER GENERAL PAVING SURFACE NOTES ON SHEET CS101
- ASPHALT PAVING, ACCESSIBLE PARKING & LOADING – 1.8% MAX ANY DIRECTION.
- ASPHALT PAVING, ACCESSIBLE LOADING VEHICLE SPACE – 1.8% MAX ANY DIRECTON.
- ASPHALT PAVING, NORMAL PARKING SPACES – 4.0% MAX ANY DIRECTION.
- ASPHALT PAVING, PARKING DRIVE ISLES – 4.0% MAX ANY DIRECTION.
- ASPHALT PAVING, PARKING ENTRANCE AND EXIT – 4.0% CROSS, 7.0% RUNNING.

CONSTRUCTION TOLERANCES HAVE BEEN FACTORED INTO THE DESIGN, HOWEVER, CONTRACTOR SHALL FIELD CHECK FORMS AS THEY ARE CONSTRUCTED, WHEN THEY ARE COMPLETE, AND ALSO PRIOR TO POURING.

811 Know what's below. Call before you dig.

GRAPHIC SCALE

20' 0 10' 20' 40'

(IN FEET) 1 inch = 20 feet

NORTH

THIS DRAWING MAY HAVE BEEN ENLARGED OR REDUCED.

LIONÄKIS
2025 Nineteenth Street
Sacramento, CA 95818
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CONSULTANT

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EL DORADO HILLS, CA 95762 | (916) 985-1870

REGISTERED PROFESSIONAL ENGINEER ANTHONY J TASSANO NO. C74698 STATE OF CALIFORNIA 12/07/2023

SEAL

PROJECT

MC CLATCHY HIGH SCHOOL
ATHLETIC FIELD RENOVATION

3066 FREEPORT BLVD.
SACRAMENTO, CA 95818

CLIENT

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

3500 FLORIN ROAD, SACRAMENTO, CA 95823

ISSUED

MARK	DATE	DESCRIPTION
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	12/7/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

LIONAKIS PROJECT NO:	023040
DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	02-121610
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AGENCY

TITLE

GRADING PLAN

SHEET

CG102B

IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY 0 1/4" 1/2" 1"

FILE: I:\23-087\CIVIL\DWG\23-087 - 108 - CG102A-D.DWG

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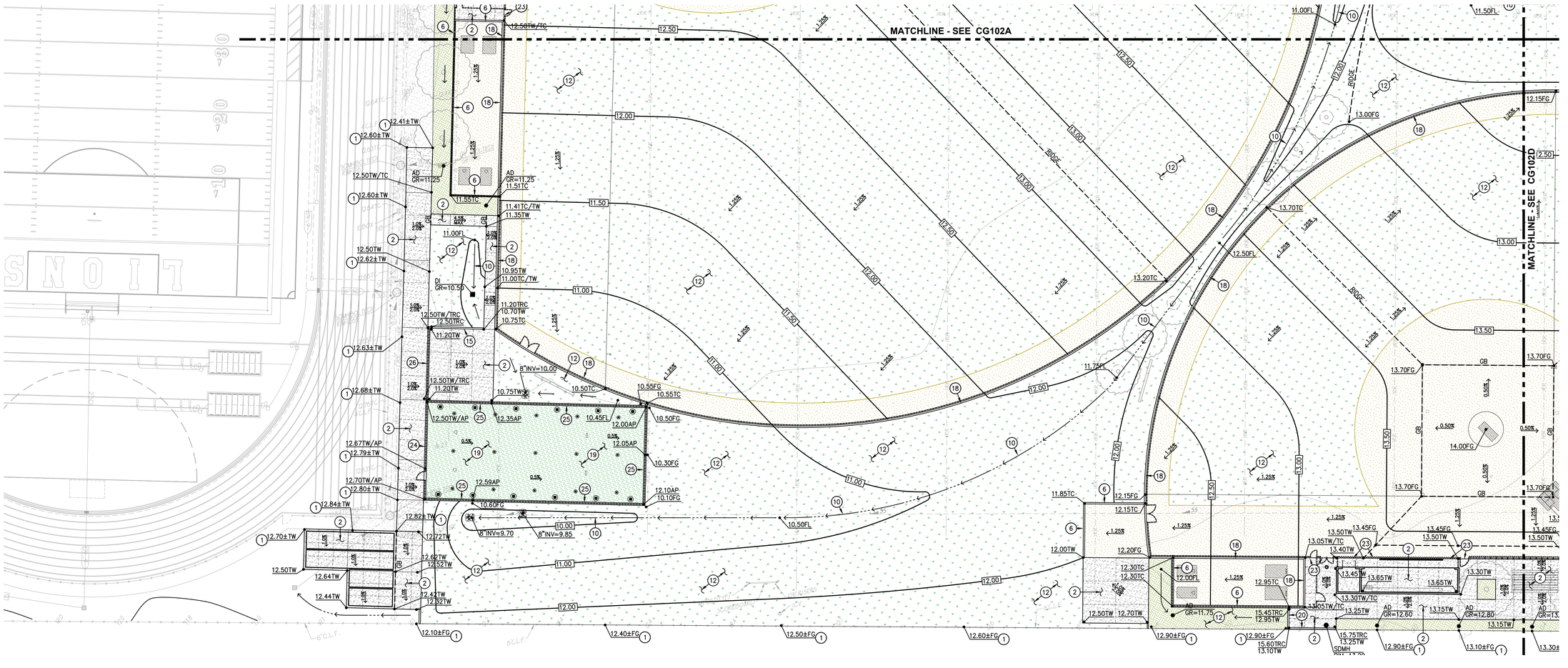

1 GRADING PLAN

SCALE 1" = 20'-0"

LEGEND

CJ
EJ

CONSTRUCTION NOTES

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CLIENT PROJECT NO:	02-121610
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AGENCY

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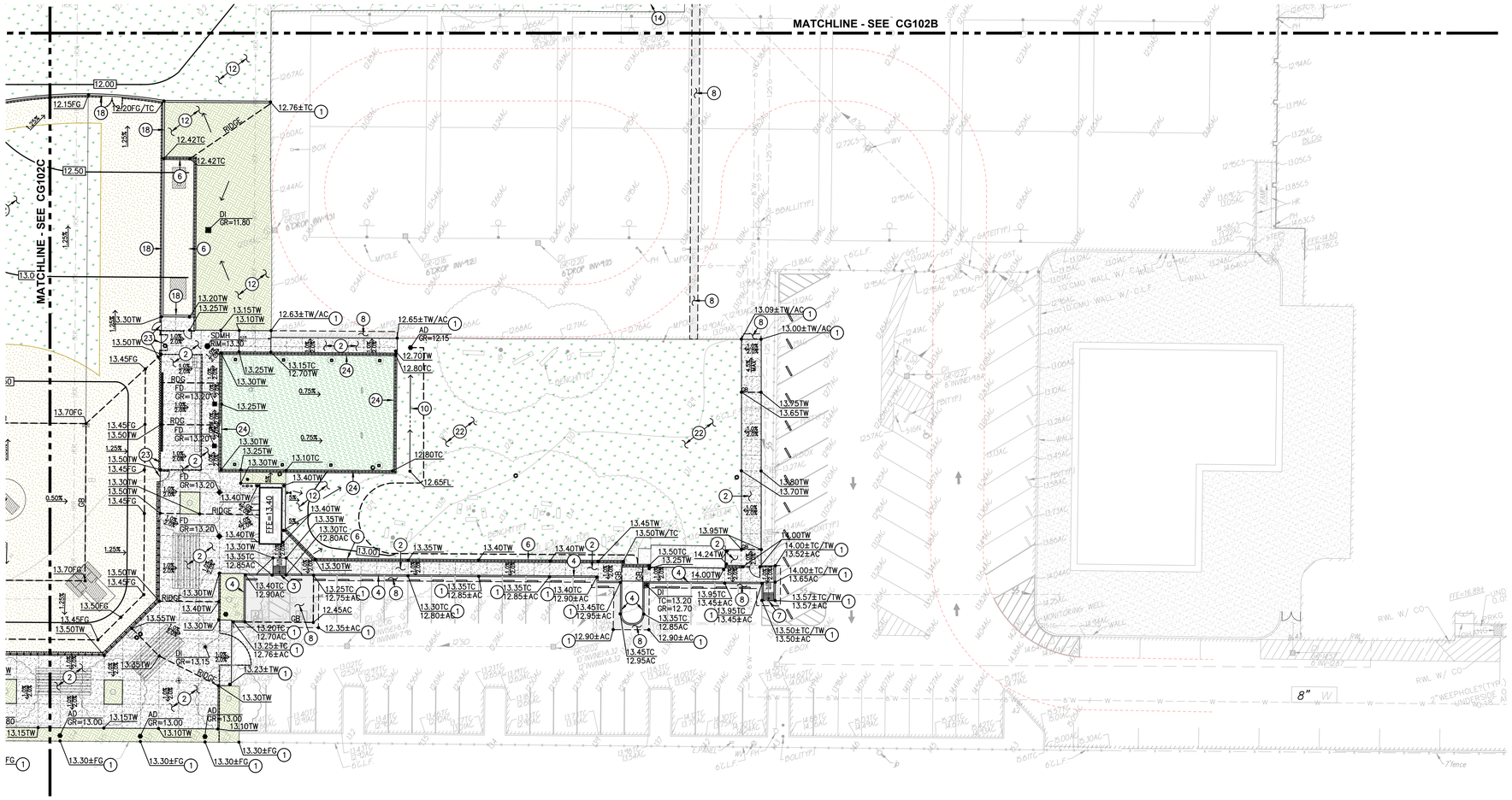
SHEET
CG102C



1 GRADING PLAN

SCALE 1" = 20'-0"

LEGEND

CJ — CONTROL JOINT

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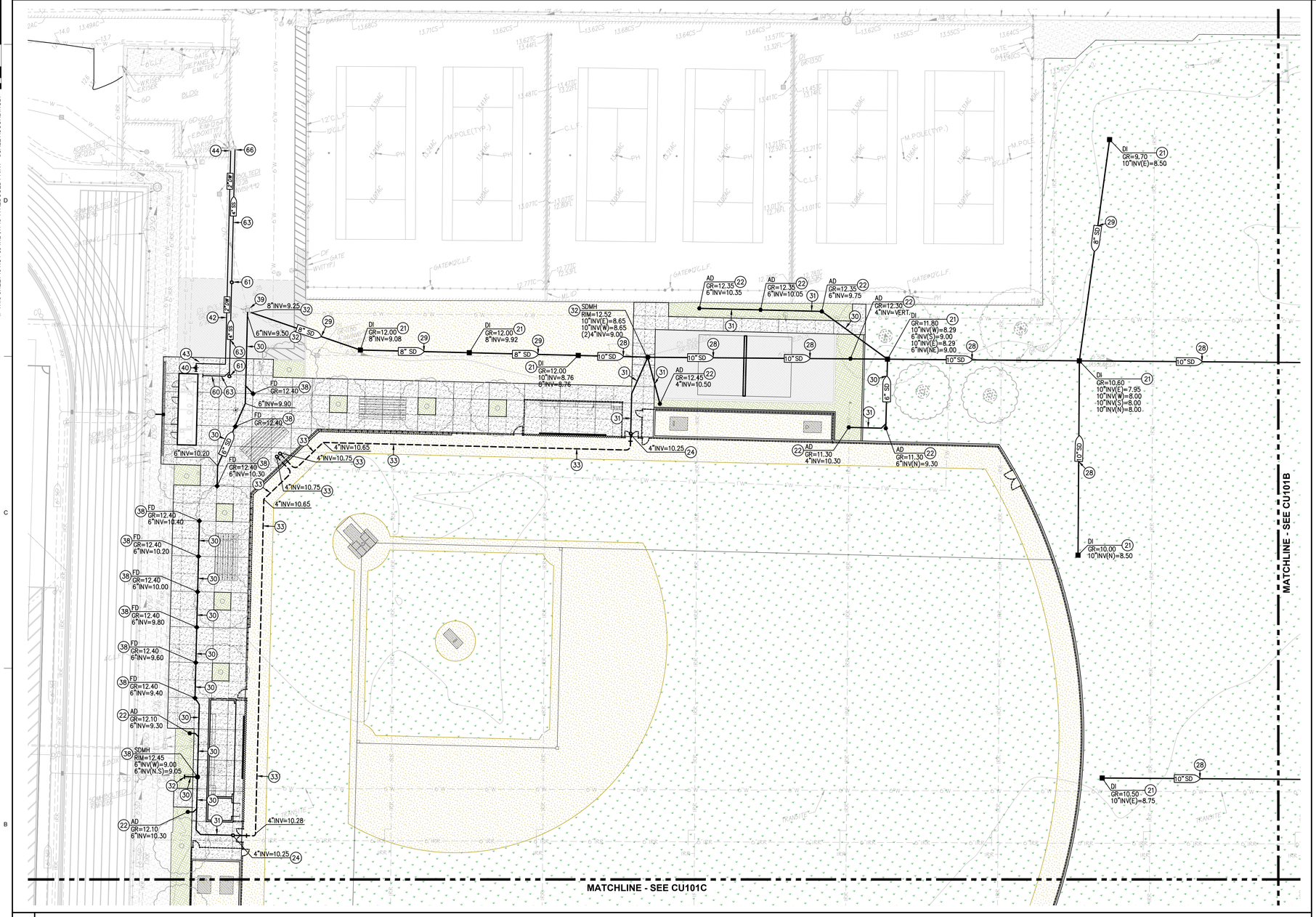
AGENCY

TITLE
GRADING PLAN

SHEET
CG102D



1 DRAINAGE AND SEWER PLAN

SCALE 1" = 20'-0"

UTILITY VERIFICATION NOTE

PRIOR TO THE START OF CONSTRUCTION, POTHOLE AND VERIFY ALL UTILITY POINTS OF CONNECTION TO EXISTING UTILITIES FOR LOCATION, DEPTH, AND SIZE. IF CONFLICT IS FOUND, CONTACT THE ENGINEER IMMEDIATELY FOR DIRECTION.

MATERIAL TRANSITION NOTE

WHEN TRANSITIONING FROM METALLIC WATER PIPE TO PLASTIC WATER PIPE (3" AND SMALLER) THREADED COUPLERS MAY BE USED BUT FEMALE ENDS MUST BE METALLIC AND MALE ENDS MUST BE PLASTIC THIS IS TRUE FOR VALVES AND OTHER UNIONS AS WELL.

UTILITY INTERRUPTIONS

CONTRACTOR SHALL NOTIFY SCHOOL AT LEAST 72 HOURS IN ADVANCE OF SERVICE SHUT-OFFS. INTERRUPTIONS OF SERVICES SHALL BE LIMITED TO LESS THAN 24 HOURS UNLESS OTHERWISE NEGOTIATED WITH DISTRICT. INTERRUPTIONS OF LONGER DURATIONS SHALL BE PROVIDED WITH TEMPORARY SERVICE CONNECTIONS WHICH ARE THE RESPONSIBILITY OF THE CONTRACTOR.

UNDER NO CIRCUMSTANCES SHALL FIRE PROTECTION SYSTEMS BE INTERRUPTED OVERNIGHT WITHOUT CONTACTING THE LOCAL FIRE AUTHORITY. CONTRACTOR WILL BE RESPONSIBLE FOR ALL REQUIRED "FIRE WATCH" REQUIREMENTS AND ASSOCIATED FEES FROM LOCAL FIRE DEPARTMENT.

PARALLEL LINE WATER MAINS

WHEN RUNNING PARALLEL WATER MAINS IN THE SAME TRENCH, SET WATER MAIN AT LEVELS 12" VERTICALLY SEPARATED TO ALLOW FUTURE CROSSING CONNECTIONS WITHOUT JUMPER PIPES.

UTILITY VERIFICATION NOTE

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DRAINAGE CONSTRUCTION NOTES

NOTE: NOT ALL OF THESE NOTES MAY BE USED ON THIS SHEET

21. CONSTRUCT DROP INLET STRUCTURE PER THE DETAIL PROVIDED. (1 CS502)
22. CONSTRUCT AREA DRAIN PER THE DETAIL PROVIDED. (5 CS502)
23. CONSTRUCT PLANTER DRAIN PER THE DETAIL PROVIDED. (9 CS502)
24. CONSTRUCT STORM DRAIN CLEANOUT PER THE DETAIL PROVIDED. (2 CS502)
25. CONSTRUCT 24" STORM DRAIN MANHOLE PER THE DETAIL PROVIDED. (12 CS502)
25. PROVIDE AND INSTALL 18" STORM DRAIN, PVC SDR-35 OR HDPE. SLOPE VARIES PER INVERTS SHOWN, BUT 0.0025 MIN. (0.25%) (3 CS502)
26. PROVIDE AND INSTALL 12" STORM DRAIN, PVC SDR-35 OR HDPE. SLOPE VARIES PER INVERTS SHOWN, BUT 0.0025 MIN. (0.25%) (3 CS502)
28. PROVIDE AND INSTALL 10" STORM DRAIN, PVC SDR-35 OR HDPE. SLOPE VARIES PER INVERTS SHOWN, BUT 0.0035 MIN. (0.35%) (3 CS502)
29. PROVIDE AND INSTALL 8" STORM DRAIN, PVC SDR-35 OR HDPE. SLOPE VARIES PER INVERTS SHOWN, BUT 0.005 MIN. (0.50%) (3 CS502)
30. PROVIDE AND INSTALL 6" STORM DRAIN, PVC SDR-35. SLOPE VARIES PER INVERTS SHOWN, BUT 0.010 MIN. (1.00%) (3 CS502, 4 CS502)
31. PROVIDE AND INSTALL 4" STORM DRAIN, PVC SDR-35. SLOPE VARIES PER INVERTS SHOWN, BUT 0.0150 MIN. (1.50%) (3 CS502, 4 CS502)
32. CONNECT TO EXISTING STORM DRAIN PIPE OR INLET STRUCTURE AS SHOWN. POTHOLE TO VERIFY LOCATION AND DEPTH PRIOR TO CONSTRUCTION. IF CONFLICT FOUND CONTACT ARCHITECT FOR DIRECTION. PROVIDE ALL FITTINGS AND ADAPTORS TO MAKE CONNECTION.
33. CONSTRUCT 4" PERFORATED SUBDRAIN WITH DRAIN ROCK AND FILTER FABRIC BENEATH BALLFIELD CINDERS PER THE DETAIL PROVIDED. (20 CS501)
34. CONSTRUCT 48" MANHOLE PER THE DETAIL PROVIDED. (16 CS502)
35. CONSTRUCT TRENCH DRAIN & APRON WITH ACCESSIBLE COVER PER THE DETAIL PROVIDED. (11 CS502)
36. CONSTRUCT 4" PERFORATED SUBDRAIN WITH DRAIN ROCK AND FILTER FABRIC BENEATH SYNTHETIC TURF PER THE DETAIL PROVIDED. (19 CS501)
37. NOT USED.
38. CONSTRUCT FLOOR DRAIN WITH ACCESSIBLE CAST IRON COVERS PER THE DETAIL PROVIDED. (13 CS502)
39. ADJUST DRAIN STRUCTURE TO PROPOSED FINISHED GRADE AND PLACE NEW FRAME AND COVER PER THE DETAIL PROVIDED. (10 CS502)
40. CONSTRUCT GROUTED COBBLE OR CONCRETE INLET STRUCTURE WITH TRASH SCREEN PER THE DETAIL PROVIDED. (21 CS502)

SANITARY SEWER NOTES

NOTE: NOT ALL OF THESE NOTES MAY BE USED ON THIS SHEET

60. CONNECT TO BUILDING SEWER SERVICE POINT. COORDINATE LOCATION, DEPTH AND LAYOUT WITH THE PLUMBING PLANS AND PLUMBING INSTALLER. PROVIDE 2-WAY CLEANOUT WITH BOX, SEE PLUMBING PLANS, CONFORM TO CPC CURRENT EDITION.
61. CONSTRUCT SEWER CLEANOUT PER THE DETAIL PROVIDED. (2 CS502)
62. PLACE 6" SEWER LINE, PVC SDR-35, SLOPE VARIES, 1.00% MIN. (3 CS502)
63. PLACE 4" SEWER LINE, PVC SDR-35, SLOPE VARIES, 1.75% MIN. (3 CS502)
66. CONNECT TO EXISTING SEWER PIPELINE OR STRUCTURE AS SHOWN. POTHOLE TO VERIFY LOCATION, DEPTH, SIZE AND CONDITION OF EXISTING SEWER PRIOR TO TRENCHING. PROVIDE ALL FITTINGS, COUPLERS AND ADAPTORS AS NEEDED TO MAKE CONNECTION. IF CONFLICTS FOUND, CONTACT ARCHITECT FOR DIRECTION.

DOMESTIC WATER CONSTRUCTION NOTES

40. CONNECT TO BUILDING WATER SERVICE POINT. COORDINATE LOCATION, DEPTH AND LAYOUT WITH THE PLUMBING PLANS AND PLUMBING INSTALLER. PROVIDE 2-WAY CLEANOUT WITH BOX, SEE PLUMBING PLANS, CONFORM TO CPC CURRENT EDITION.
41. PLACE 3/4" WATER LINE, COPPER TYPE K (HARD), OR APPROVED EQUAL. REFER TO TRENCHING DETAIL PROVIDED. (1 CS503)
42. PLACE 2.0" WATER LINE, COPPER TYPE K (HARD), OR APPROVED EQUAL. REFER TO TRENCHING DETAIL PROVIDED. (1 CS503)
43. INSTALL WATER VALVE AND TRAFFIC RATED VALVE BOX PER THE DETAIL PROVIDED. (3 CS503)
44. CONNECT TO EXISTING WATER MAIN. POTHOLE TO VERIFY LOCATION, SIZE AND CONDITION PRIOR TO CONSTRUCTION. IF CONFLICT IS FOUND, CONTACT ARCHITECT FOR DIRECTION.
45. CONSTRUCT DRINKING FOUNTAIN PER THE DETAIL PROVIDED. (10 CS503)
46. CONSTRUCT DRINKING FOUNTAIN DRYWELL PER THE DETAIL PROVIDED. (11 CS503)

811 Know what's below. Call before you dig.

GRAPHIC SCALE

20' 0 10' 20' 40'

(IN FEET) 1 inch = 20 feet

THIS DRAWING MAY HAVE BEEN ENLARGED OR REDUCED.

NORTH

LIONAKIS

2025 Nineteenth Street
Sacramento, CA 95818
P 916.558.1900
www.lionakis.com

CONSULTANT

WCE
WARREN CONSULTING ENGINEERS, INC.
1117 WINDFIELD WAY, SUITE 110
EL DORADO HILLS, CA 95762 | (916) 985-1870

REGISTERED PROFESSIONAL ENGINEER ANTHONY J TASSANO NO. C74698 STATE OF CALIFORNIA 12/07/2023

SEAL

PROJECT

MC CLATCHY HIGH SCHOOL
ATHLETIC FIELD RENOVATION

3066 FREEPORT BLVD.
SACRAMENTO, CA 95818

CLIENT

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

3500 FLORIN ROAD, SACRAMENTO, CA 95823

ISSUED

MARK	DATE	DESCRIPTION
-	8/18/2023	DSA SUBMITTAL
	12/7/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

LIONAKIS PROJECT NO:	023040
DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	02-121610
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AGENCY

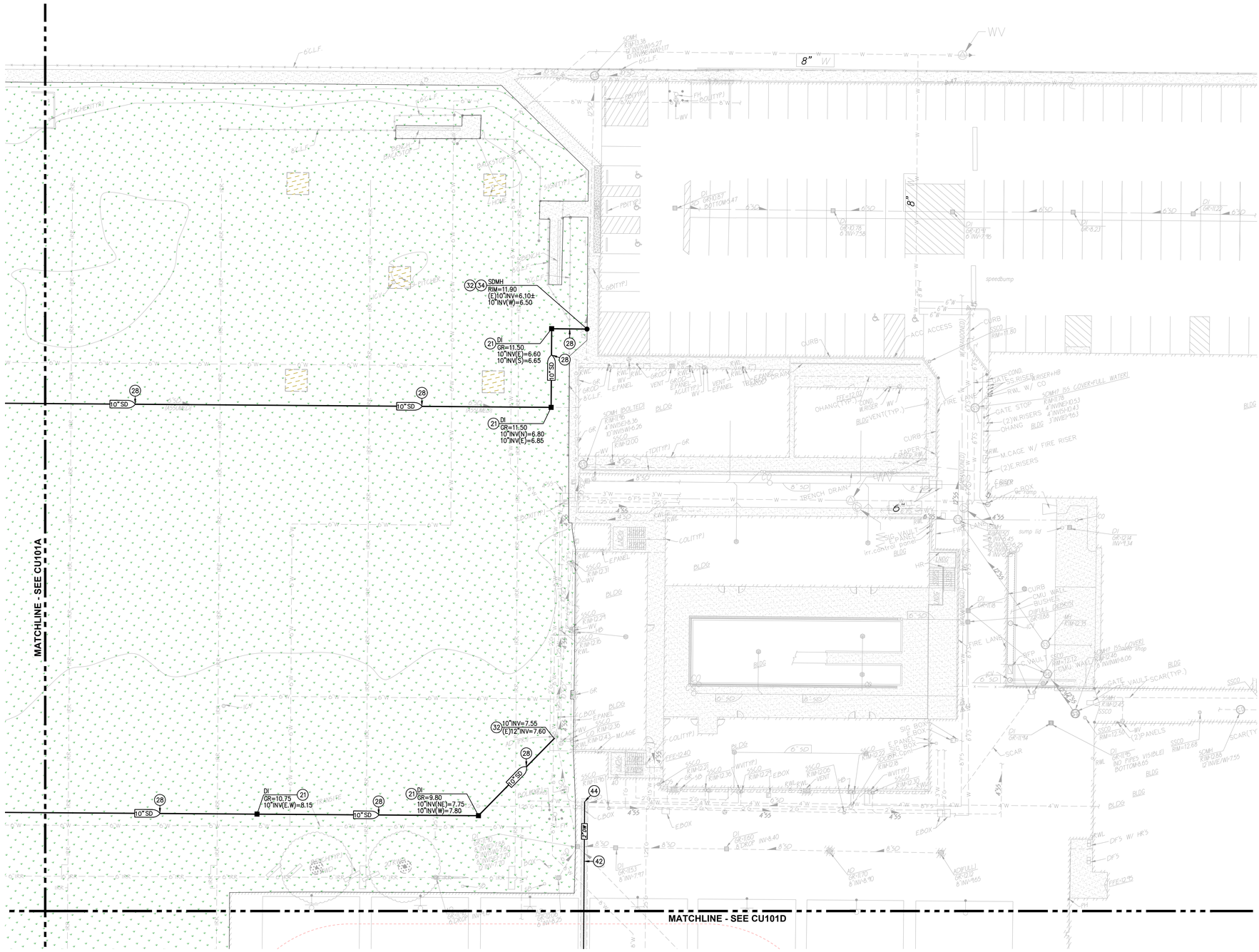
TITLE

DRAINAGE AND SEWER PLAN

AREA A

SHEET

CU101A



IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY

1 DRAINAGE AND SEWER PLAN

SCALE 1" = 20'-0"

UTILITY VERIFICATION NOTE

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MATERIAL TRANSITION NOTE

WHEN TRANSITIONING FROM METALLIC WATER PIPE TO PLASTIC WATER PIPE (3" AND SMALLER) THREADED COUPLERS MAY BE USED BUT FEMALE ENDS MUST BE METALLIC AND MALE ENDS MUST BE PLASTIC THIS IS TRUE FOR VALVES AND OTHER UNIONS AS WELL.

UTILITY INTERRUPTIONS

CONTRACTOR SHALL NOTIFY SCHOOL AT LEAST 72 HOURS IN ADVANCE OF SERVICE SHUT-OFFS. INTERRUPTIONS OF SERVICES SHALL BE LIMITED TO LESS THAN 24 HOURS UNLESS OTHERWISE NEGOTIATED WITH DISTRICT. INTERRUPTIONS OF LONGER DURATIONS SHALL BE PROVIDED WITH TEMPORARY SERVICE CONNECTIONS WHICH ARE THE RESPONSIBILITY OF THE CONTRACTOR.

UNDER NO CIRCUMSTANCES SHALL FIRE PROTECTION SYSTEMS BE INTERRUPTED OVERNIGHT WITHOUT CONTACTING THE LOCAL FIRE AUTHORITY. CONTRACTOR WILL BE RESPONSIBLE FOR ALL REQUIRED "FIRE WATCH" REQUIREMENTS AND ASSOCIATED FEES FROM LOCAL FIRE DEPARTMENT.

PARALLEL LINE WATER MAINS

WHEN RUNNING PARALLEL WATER MAINS IN THE SAME TRENCH, SET WATER MAIN AT LEVELS 12" VERTICALLY SEPARATED TO ALLOW FUTURE CROSSING CONNECTIONS WITHOUT JUMPER PIPES.

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DRAINAGE CONSTRUCTION NOTES

NOTE: NOT ALL OF THESE NOTES MAY BE USED ON THIS SHEET

21. CONSTRUCT DROP INLET STRUCTURE PER THE DETAIL PROVIDED. 1/CS502
22. CONSTRUCT AREA DRAIN PER THE DETAIL PROVIDED. 5/CS502
23. CONSTRUCT PLANTER DRAIN PER THE DETAIL PROVIDED. 9/CS502
24. CONSTRUCT STORM DRAIN CLEANOUT PER THE DETAIL PROVIDED. 2/CS502
25. CONSTRUCT 24" STORM DRAIN MANHOLE PER THE DETAIL PROVIDED. 12/CS502
25. PROVIDE AND INSTALL 18" STORM DRAIN, PVC SDR-35 OR HDPE. SLOPE VARIES PER INVERTS SHOWN, BUT 0.0025 MIN. (0.25%) 3/CS502
26. PROVIDE AND INSTALL 12" STORM DRAIN, PVC SDR-35 OR HDPE. SLOPE VARIES PER INVERTS SHOWN, BUT 0.0025 MIN. (0.25%) 3/CS502
28. PROVIDE AND INSTALL 10" STORM DRAIN, PVC SDR-35 OR HDPE. SLOPE VARIES PER INVERTS SHOWN, BUT 0.0035 MIN. (0.35%) 3/CS502
29. PROVIDE AND INSTALL 8" STORM DRAIN, PVC SDR-35 OR HDPE. SLOPE VARIES PER INVERTS SHOWN, BUT 0.005 MIN. (0.50%) 3/CS502
30. PROVIDE AND INSTALL 6" STORM DRAIN, PVC SDR-35. SLOPE VARIES PER INVERTS SHOWN, BUT 0.010 MIN. (1.00%) 3/CS502 4/CS502
31. PROVIDE AND INSTALL 4" STORM DRAIN, PVC SDR-35. SLOPE VARIES PER INVERTS SHOWN, BUT 0.0150 MIN. (1.50%) 3/CS502 4/CS502
32. CONNECT TO EXISTING STORM DRAIN PIPE OR INLET STRUCTURE AS SHOWN. POTHOLE TO VERIFY LOCATION AND DEPTH PRIOR TO CONSTRUCTION. IF CONFLICT FOUND CONTACT ARCHITECT FOR DIRECTION. PROVIDE ALL FITTINGS AND ADAPTORS TO MAKE CONNECTION.
33. CONSTRUCT 4" PERFORATED SUBDRAIN WITH DRAIN ROCK AND FILTER FABRIC BENEATH BALLFIELD CINDERS PER THE DETAIL PROVIDED. 20/CS501
34. CONSTRUCT 48" MANHOLE PER THE DETAIL PROVIDED. 16/CS502
35. CONSTRUCT TRENCH DRAIN & APRON WITH ACCESSIBLE COVER PER THE DETAIL PROVIDED. 11/CS502
36. CONSTRUCT 4" PERFORATED SUBDRAIN WITH DRAIN ROCK AND FILTER FABRIC BENEATH SYNTHETIC TURF PER THE DETAIL PROVIDED. 19/CS501
37. NOT USED.
38. CONSTRUCT FLOOR DRAIN WITH ACCESSIBLE CAST IRON COVERS PER THE DETAIL PROVIDED. 13/CS502
39. ADJUST DRAIN STRUCTURE TO PROPOSED FINISHED GRADE AND PLACE NEW FRAME AND COVER PER THE DETAIL PROVIDED. 10/CS502
40. CONSTRUCT GROUTED COBBLE OR CONCRETE INLET STRUCTURE WITH TRASH SCREEN PER THE DETAIL PROVIDED. 21/CS502

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ANTHONY J. TASSANO
NO. C74696
12/07/2023

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MANAGEMENT

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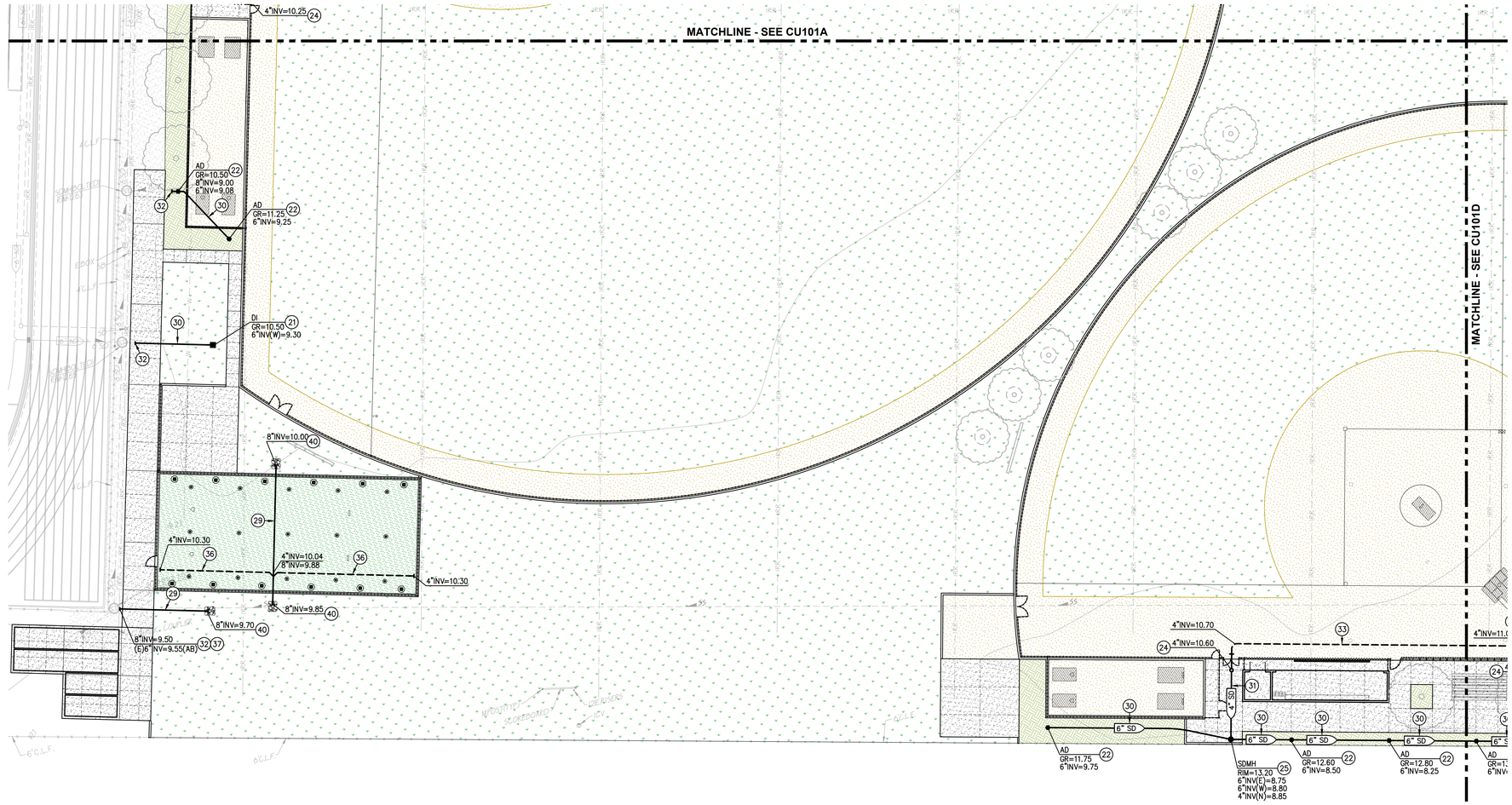
AGENCY

TITLE
DRAINAGE AND
SEWER PLAN

AREA B

SHEET
CU101B

PLOT DATE: 12/7/2023 12:47:32 PM FILE: I:\23-087\CIVIL\DWG\23-087 - 109 - CU101A-D.DWG



1 DRAINAGE AND SEWER PLAN

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DRAINAGE CONSTRUCTION NOTES

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22. CONSTRUCT AREA DRAIN PER THE DETAIL PROVIDED. (5 CS502)
23. CONSTRUCT PLANTER DRAIN PER THE DETAIL PROVIDED. (9 CS502)
24. CONSTRUCT STORM DRAIN CLEANOUT PER THE DETAIL PROVIDED. (2 CS502)
25. CONSTRUCT 24" STORM DRAIN MANHOLE PER THE DETAIL PROVIDED. (12 CS502)
25. PROVIDE AND INSTALL 18" STORM DRAIN, PVC SDR-35 OR HDPE. SLOPE VARIES PER INVERTS SHOWN, BUT 0.0025 MIN. (0.25%) (3 CS502)
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34. CONSTRUCT 48" MANHOLE PER THE DETAIL PROVIDED. (16 CS502)
35. CONSTRUCT TRENCH DRAIN & APRON WITH ACCESSIBLE COVER PER THE DETAIL PROVIDED. (11 CS502)
36. CONSTRUCT 4" PERFORATED SUBDRAIN WITH DRAIN ROCK AND FILTER FABRIC BENEATH SYNTHETIC TURF PER THE DETAIL PROVIDED. (19 CS501)
37. REMOVE EXISTING 6" DRAIN STUB AND INSTALL NEW 8" DRAIN LINE.
38. CONSTRUCT FLOOR DRAIN WITH ACCESSIBLE CAST IRON COVERS PER THE DETAIL PROVIDED. (13 CS502)
39. ADJUST DRAIN STRUCTURE TO PROPOSED FINISHED GRADE AND PLACE NEW FRAME AND COVER PER THE DETAIL PROVIDED. (10 CS502)
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TITLE

DRAINAGE AND SEWER PLAN

AREA C

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CU101C

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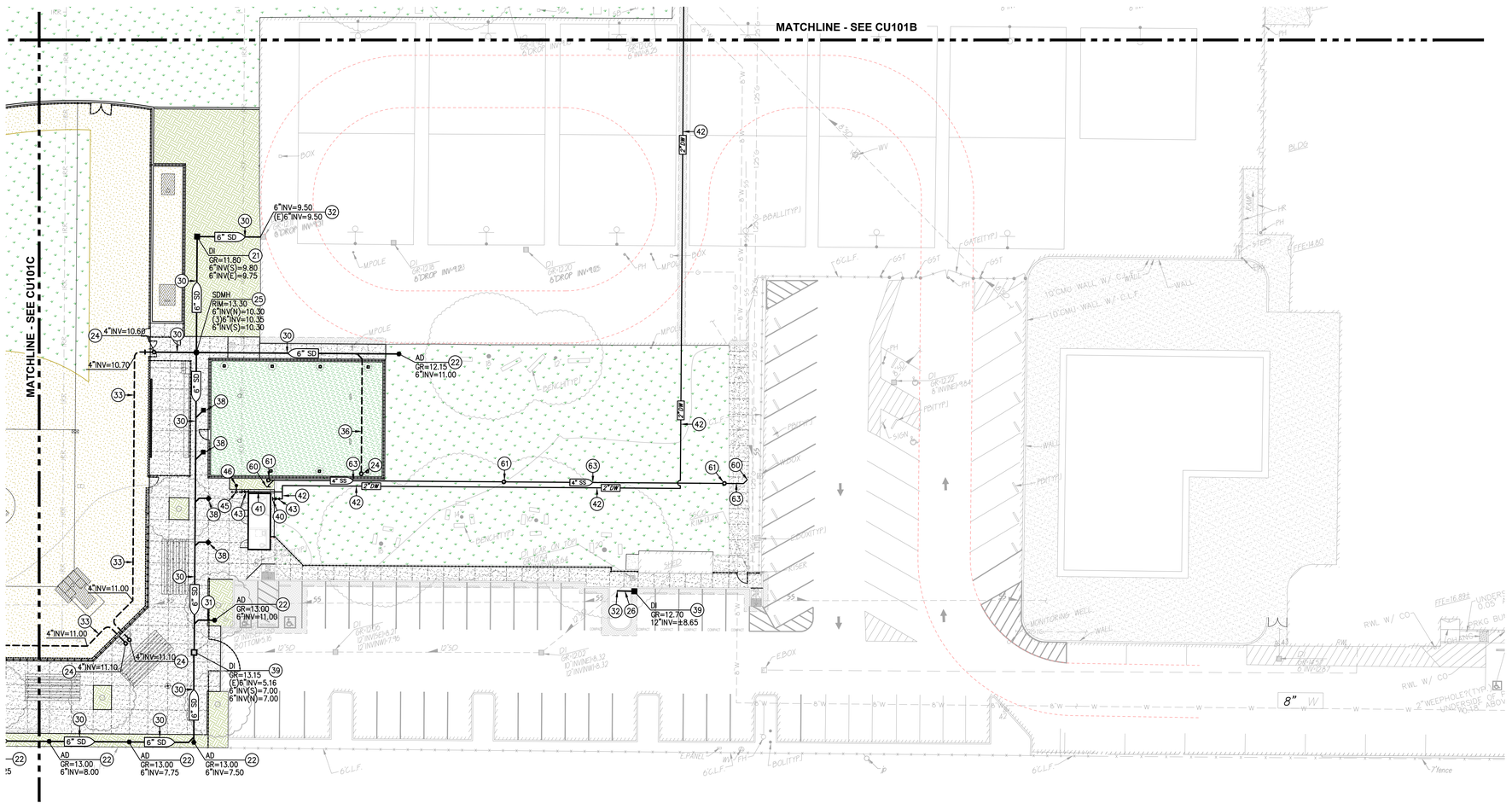

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62. PLACE 6" SEWER LINE, PVC SDR-35, SLOPE VARIES, 1.00% MIN. (3/CS502)
63. PLACE 4" SEWER LINE, PVC SDR-35, SLOPE VARIES, 1.75% MIN. (3/CS502)
66. CONNECT TO EXISTING SEWER PIPELINE OR STRUCTURE AS SHOWN. POTHOLE TO VERIFY LOCATION, DEPTH, SIZE AND CONDITION OF EXISTING SEWER PRIOR TO TRENCHING. PROVIDE ALL FITTINGS, COUPLERS AND ADAPTORS AS NEEDED TO MAKE CONNECTION. IF CONFLICTS FOUND, CONTACT ARCHITECT FOR DIRECTION.

(#) DOMESTIC WATER CONSTRUCTION NOTES

40. CONNECT TO BUILDING WATER SERVICE POINT. COORDINATE LOCATION, DEPTH AND LAYOUT WITH THE PLUMBING PLANS AND PLUMBING INSTALLER. PROVIDE 2-WAY CLEANOUT WITH BOX, SEE PLUMBING PLANS, CONFORM TO CPC CURRENT EDITION.
41. PLACE 3/4" WATER LINE, COPPER TYPE K (HARD), OR APPROVED EQUAL. REFER TO TRENCHING DETAIL PROVIDED. (1/CS503)
42. PLACE 2.0" WATER LINE, COPPER TYPE K (HARD), OR APPROVED EQUAL. REFER TO TRENCHING DETAIL PROVIDED. (1/CS503)
43. INSTALL WATER VALVE AND TRAFFIC RATED VALVE BOX PER THE DETAIL PROVIDED. (3/CS503)
44. CONNECT TO EXISTING WATER MAIN. POTHOLE TO VERIFY LOCATION, SIZE AND CONDITION PRIOR TO CONSTRUCTION. IF CONFLICT IS FOUND, CONTACT ARCHITECT FOR DIRECTION.
45. CONSTRUCT DRINKING FOUNTAIN PER THE DETAIL PROVIDED. (10/CS503)
46. CONSTRUCT DRINKING FOUNTAIN DRYWELL PER THE DETAIL PROVIDED. (11/CS503)

811 Know what's below. Call before you dig.

GRAPHIC SCALE

20' 0 10' 20' 40'

(IN FEET) 1 inch = 20 feet

NORTH

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REGISTERED PROFESSIONAL ENGINEER
ANTHONY J TASSANO
NO. C74698
STATE OF CALIFORNIA
12/7/2023

SEAL

PROJECT

MC CLATCHY HIGH SCHOOL
ATHLETIC FIELD RENOVATION

3066 FREEPORT BLVD.
SACRAMENTO, CA 95818

CLIENT

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

3500 FLORIN ROAD, SACRAMENTO, CA 95823

ISSUED

MARK	DATE	DESCRIPTION
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MANAGEMENT

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DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	02-121610
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AGENCY

TITLE

DRAINAGE AND
SEWER PLAN

AREA D

SHEET

CU101D

PAVING GENERAL NOTES:

1. ASPHALT MIX SHALL MEET CALTRANS SPECIFICATIONS FOR TYPE B ASPHALTIC CONCRETE. REFERENCE CALTRANS SPECIFICATION SECTION 39, AND PROJECT SPECIFICATIONS
2. AGGREGATE BASE SHALL MEET CALTRANS SPECIFICATIONS FOR CLASS II AGGREGATE BASE. REFERENCE CALTRANS SPECIFICATION SECTION 26. AND PROJECT SPECIFICATIONS
3. ALL AGGREGATE BASE SHALL BE MOISTURE CONDITIONED TO, OR SLIGHTLY ABOVE, OPTIMUM MOISURE CONTENT AND COMPACTED TO 95% RELATIVE COMPACTION.
4. RECYCLED ASPHALT MAY BE USED AS CONCRETE AND ASPHALT BASE MATERIAL PROVIDED IT MEETS CALTRANS SPECIFICATIONS FOR CLASS II AB, REFERENCE CALTRANS SPECIFICATION SECTION 26–1.02A.
5. PAVEMENT SUBGRADE PREPARATION, I.E. SCARIFICATION, MOISTURE CONDITIONING, LIME TREATMENT (IF USED), AND COMPACTION SHALL BE PERFORMED AFTER ALL UTILITIES HAVE BEEN LOCATED AND POTHOLED, AND THE INSTALLATION OF UNDERGROUND UTILITIES AND TRENCHES BACKFILLED IN ACCORDANCE WITH THESE PLANS.
6. ALL AREAS DISTURBED BY GRADING, DEMOLITION, OR CONSTRUCTION ACCESS, WHICH ARE NOT SURFACED BY THIS SET OF PLANS, OR LANDSCAPE PLANS, SHALL BE SEEDED WITH EROSION CONTROL TYPE NON–WATERED SEED MIX. REFER TO EROSION CONTROL SPECIFICATIONS FOR ACCEPTABLE SEED MIXES.
7. REFER TO GRADING PLANS FOR CURBS, CURB GUTTERS, VALLEY GUTTERS, AND OTHER CONCRETE STRUCTURES AND PAVING FEATURES NOT SPECIFICALLY NOTED ON THIS PLAN.
8. ALL NEW ASPHALT PAVING SHALL RECIEVE SEALCOAT, 2 COATS, MIN. REFER TO PROJECT SPECIFICATIONS. CONTRACTOR SHALL ALLOW FOR 30 DAYS MIN. OF ASPHALT PAVEMENT CURING PRIOR TO SEALCOAT PLACEMENT. IF CONTRACTORS SCHEDULE DOES NOT PERMIT CURING, CONTRACTOR WILL PROVIDE, AT HIS COST, TEMPORARY STRIPING. TEMPORARY STRIPING SHALL BE REMOVED AFTER CURING PERIOD AND SEALCOAT APPLIED WITH NEW REPLACEMENT STRIPING. CONTRACTOR SHALL COORDINATE THIS WORK WITH THE OWNER/DISTRICT.

CONCRETE FINISH NOTES

REFER TO ARCHITECTURAL PLANS FOR ANY SPECIAL CONCRETE FINISHES SPECIFIED WHICH SHALL OVERRIDE THOSE SPECIFIED BELOW.

1. PROVIDE MEDIUM BROOM FINISH AT SLOPES UP TO 4.99%, TYPICAL, OR EQ.
2. PROVIDE HEAVY BROOM FINISH AT SLOPES 5.00% AND GREATER, OR EQ.

REBAR OPTIONS

AT CONTRACTORS OPTION:

1. #4 @ 24" O.C.E.W. = #3 @ 18" O.C.E.W.
2. #4 @ 18" O.C.E.W. = #3 @ 12" O.C.E.W.

LIME EXCAVATION

NOTE: WHERE LIME TREATMENT OF PAVEMENT SUBGRADE ENCROACHES INTO PROPOSED PLANTING AREAS, FOLLOWING PLACEMENT OF PAVING, ENCRAOCHED LIME TREATED SOILS SHALL BE EXCAVATED AND REMOVED AND REPLACED WITH CLEAN NATIVE FILL AND TOPPED WITH 8" MIN. TOPSOIL.

IN AREAS DIFFICULT TO DIRECTLY TREAT WITH LIME, DUE TO SHALLOW UTILITIES OR OTHER CONDITIONS, CONTRACTOR MAY EITHER:

1. TREAT SOIL WITH LIME AT SEPARATE LOCATION AND THEN PLACE, COMPACT AND CURE WHERE NEEDED, SEE SECTION 31 32 00.

2. REPLACE 12" LIME SECTION WITH 12" COMPACTED CLASS II AB, PLACED IN 6" COMPACTED LIFTS, EACH COMPACTED TO 95%, OVER 12" DEEP SCARIFIED AND 90% RE–COMPACTED SUBGRADE. IF 90% CANNOT BE ACHIEVED, STATIC ROLL AND PROVIDE TENSAR BX1100 OR TX140 GEOGRID. THIS AB LAYER DOES NOT COUNT TOWARD PAVEMENT SECTION AB LAYER THICKNESS.

GRAPHIC SCALE

30' 0 15' 30' 60'

(IN FEET) 1 inch = 30 feet

THIS DRAWING MAY HAVE BEEN ENLARGED OR REDUCED.

NORTH

811 Know what's below. Call before you dig.

1 PAVING PLAN

SCALE 1" = 30'–0"

PAVING LEGEND - LIME TREATED SUBGRADE

SUBGRADE PREPARATION VARIES WITH PAVING SECTIONS, SEE SHEET CG101 AND SPECIFICATIONS.

(1) TYPE 1 PAVING – HEAVY DRIVE ISLES & BUS & FIRE LANES
PLACE **4"** AC OVER **6.0"** CLASS II AB OVER 12" MIN. LIME TREATED SUBGRADE PREPARED IN ACCORDANCE WITH THE SPECIFICATIONS SECTION 31 00 00 AND 31 32 00. ASPHALT PER SPECIFICATION SECTION 32 12 00. PROVIDE SEALCOAT PER SPECIFICATIONS, 2 COATS.

(2) TYPE 2 PAVING – LIGHT DRIVE ISLES
PLACE **3.0"** AC OVER **8.0"** CLASS II AB OVER 12" MIN. LIME TREATED SUBGRADE PREPARED IN ACCORDANCE WITH THE SPECIFICATIONS SECTION 31 00 00 AND 31 32 00. ASPHALT PER SPECIFICATION SECTION 32 12 00. PROVIDE SEALCOAT PER SPECIFICATIONS, 2 COATS.

(3) TYPE 3 PAVING – PARKING STALLS
PLACE **3.0"** AC OVER **6.0"** CLASS II AB OVER 12" MIN. LIME TREATED SUBGRADE PREPARED IN ACCORDANCE WITH THE SPECIFICATIONS SECTION 31 00 00 AND 31 32 00. ASPHALT PER SPECIFICATION SECTION 32 12 00. PROVIDE SEALCOAT PER SPECIFICATIONS, 2 COATS.

(4) TYPE 4 PAVING – HARDCOURTS
PLACE **3.0"** AC OVER **6.0"** CLASS II AB OVER 12" MIN. LIME TREATED SUBGRADE PREPARED IN ACCORDANCE WITH THE SPECIFICATIONS SECTION 31 00 00 AND 31 32 00. ASPHALT PER SPECIFICATION SECTION 32 12 00. PROVIDE SEALCOAT PER SPECIFICATIONS, 2 COATS.

(5) TYPE 5 PAVING – PEDESTRIAN RATED (NON–TRAFFIC) (1 CS501) (2 CS501) (3 CS501)
PLACE **5"** PCC OVER **4"** CLASS II AB OVER 12" DEEP LIME TREATED SUBGRADE PREPARED IN ACCORDANCE WITH THE SPECIFICATIONS SECTION 31 00 00 AND 31 32 00. PROVIDE #4 BARS AT 24" O.C.E.W. CONCRETE SHALL BE PER SECTION 32 16 00. REFER ALSO TO DETAILS PROVIDED. CONCRETE SHALL BE 3500 PSI MIN.

PAVING LEGEND - NATIVE SUBGRADES

SUBGRADE PREPARATION VARIES WITH PAVING SECTIONS, SEE SHEET C3.0 AND SPECIFICATIONS.

(1) TYPE 1 PAVING – HEAVY DRIVE ISLES & BUS & FIRE LANES
PLACE **4"** AC OVER **11.0"** CLASS II AB OVER NATIVE SUBGRADE PREPARED IN ACCORDANCE WITH THE SPECIFICATIONS. SUBGRADE SHALL BE PLACED AND COMPACTED PER SPECIFICATION SECTION 31 00 00. ASPHALT PER SPECIFICATION SECTION 32 12 00. PROVIDE SEALCOAT PER SPECIFICATIONS, 2 COATS.

(2) TYPE 2 PAVING – LIGHT DRIVE ISLES
PLACE **3.0"** AC OVER **13.0"** CLASS II AB OVER NATIVE SUBGRADE PREPARED IN ACCORDANCE WITH THE SPECIFICATIONS. SUBGRADE SHALL BE PLACED AND COMPACTED PER SPECIFICATION SECTION 31 00 00. ASPHALT PER SPECIFICATION SECTION 32 12 00. PROVIDE SEALCOAT PER SPECIFICATIONS, 2 COATS.

(3) TYPE 3 PAVING – PARKING STALLS
PLACE **3.0"** AC OVER **7.0"** CLASS II AB OVER NATIVE SUBGRADE PREPARED IN ACCORDANCE WITH THE SPECIFICATIONS. SUBGRADE SHALL BE PLACED AND COMPACTED PER SPECIFICATION SECTION 31 00 00. ASPHALT PAVING PER SPECIFICATION SECTION 32 12 00.

(4) TYPE 4 PAVING – HARDCOURTS
PLACE **3.0"** AC OVER **7.0"** CLASS II AB OVER NATIVE SUBGRADE PREPARED IN ACCORDANCE WITH THE SPECIFICATIONS. SUBGRADE SHALL BE PLACED AND COMPACTED PER SPECIFICATION SECTION 31 00 00. ASPHALT PAVING PER SPECIFICATION SECTION 32 12 00.

(5) TYPE 5 PAVING – PEDESTRIAN RATED (NON–TRAFFIC) (1 CS501) (2 CS501) (3 CS501)
PLACE **5"** PCC OVER **6"** CLASS II AB OVER NATIVE SUBGRADE PREPARED IN ACCORDANCE WITH THE SPECIFICATIONS. PROVIDE #4 BARS AT 24" O.C.E.W. SUBGRADE SHALL BE PLACED AND COMPACTED PER SPECIFICATION SECTION 31 00 00. CONCRETE PER SECTION 32 16 00. REFER ALSO TO DETAILS PROVIDED. CONCRETE SHALL BE 3500 PSI MIN.

(7) TYPE 7 SURFACING – LANDSCAPE AREA (2 CS501)
PLACE 12" LAYER AMENDED NATIVE OR AMENDED IMPORTED TOPSOIL FOR NEW LANDSCAPING. TOPSOIL SHALL BE IN ACCORDANCE WITH THE LANDSCAPE SPECIFICATIONS. PLACE IN LIFTS NOT EXCEEDING 12" IN UNCOMPACTED THICKNESS AND COMPACT TO 85% RELATIVE COMPACTION UNTIL TOPSOIL SUBGRADE IS ACHIEVED. SUBGRADE SHALL BE PLACED AND COMPACTED PER SPECIFICATION SECTION 31 00 00. REFER TO LANDSCAPE PLANS FOR IRRIGATION AND PLANTING.

(8) TYPE 8 SURFACING – HYDROSEED AREA
FOLLOWING SITE GRADING IN ACCORDANCE WITH GRADING PLAN AND SECTION 31 00 00, PLACE 8" LAYER AMENDED NATIVE TOPSOIL AND SEED WITH EROSION CONTROL HYDROSEED MIX IN ACCORDANCE WITH SECTION 31 25 00.

(9) TYPE 9 PAVING – TENNIS COURTS
PLACE TENNIS COURT PAVING, 1.5" THICK 3/8" TYPE A AC REINFORCED, 2.5" THICK 3/4" TYPE A AC REINFORCED, OVER 8" CLASS II AB ON COMPACTED SUBGRADE. ENGINEERED FILL AND SUBGRADE SHALL BE PLACED AND COMPACTED PER SPECIFICATION SECTION 31 00 00. ASPHALT PER SPECIFICATION SECTION 32 12 00 AND 32 12 16.26. SEE STRIPING AND SURFACING PLAN FOR TENNIS COURT SURFACING AND SECTION 32 12 33.1. (16 CS501)

(10) TYPE 10 SURFACING – SYNTHETIC TURF (19 CS501)
SYNTHETIC TURF SURFACING OVER SHOCK/DRAINAGE PAD, ON 4" MIN. COMPACTED BASE PER THE DETAILS PROVIDED. SEE ARCH. AND LANDSCAPE PLANS AND SPECS FOR SYNTHETIC TURF MATERIALS AND INSTALLATION.

(11) TYPE 11 SURFACING – INFIELD MIX, AND BASEBALL/SOFTBALL SURFACING.
SEE LANDSCAPE PLANS AND SPECS.

(12) TYPE 12 PAVING – ASPHALT OVERLAY
PLACE 1.5" THICK ASPHALT OVERLAY PER SECTION 32 12 00.

(13) TYPE 13 PAVING – COURT SURFACING ON EXISTING AC
SEE LANDSCAPE PLANS AND SPECS FOR SURFACING AND STRIPING.

(14) TYPE 14 PAVING – COURT SURFACING ON NEW AC
SEE LANDSCAPE PLANS AND SPECS FOR SURFACING & STRIPING.

(15) TYPE 15 PAVING – DECOMPOSED GRANITE
PLACE 6" LAYER STABILIZED AND COMPACTED DECOMPOSED GRANITE OVER PREPARED AND COMPACTED SUBGRADE.

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REGISTERED PROFESSIONAL ENGINEER
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NO. C74698
STATE OF CALIFORNIA
12/07/2023

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MANAGEMENT

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DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	02-121610
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AGENCY

TITLE
PAVING PLAN

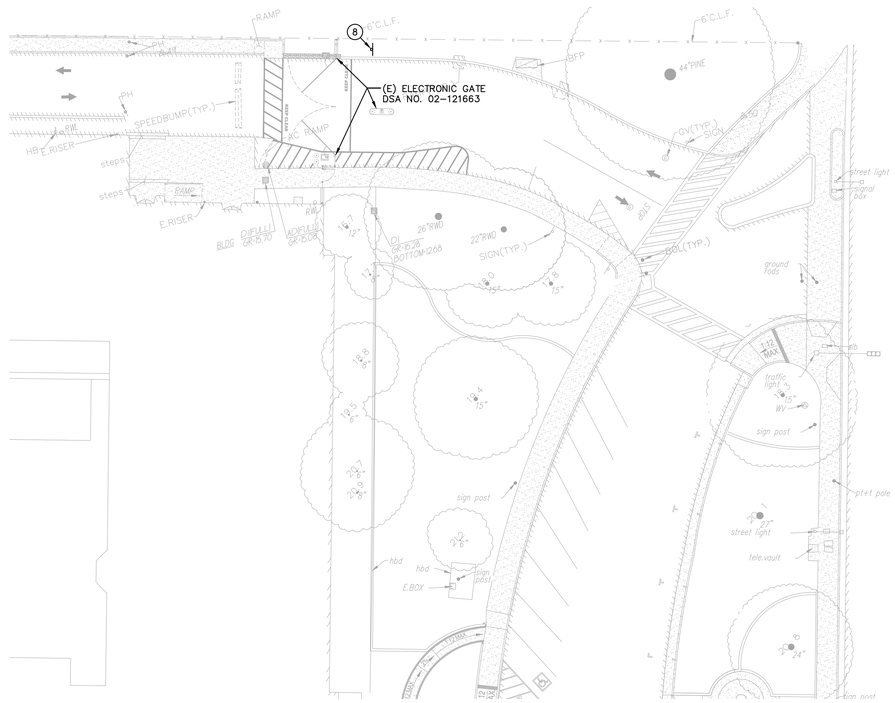
SHEET
CP101

IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT. SCALE ACCORDINGLY 0 1/4" 1/2" 1"

PLOT DATE: 12/7/2023 1:17:20 PM FILE: I:\23-087\CIVIL\DWG\23-087 - 111 - CP101.DWG

IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT. SCALE ACCORDINGLY

0 1/4" 1/2" 1"



A STRIPING AND SIGNAGE PLAN - NORTH PARKING (ENTRANCE)

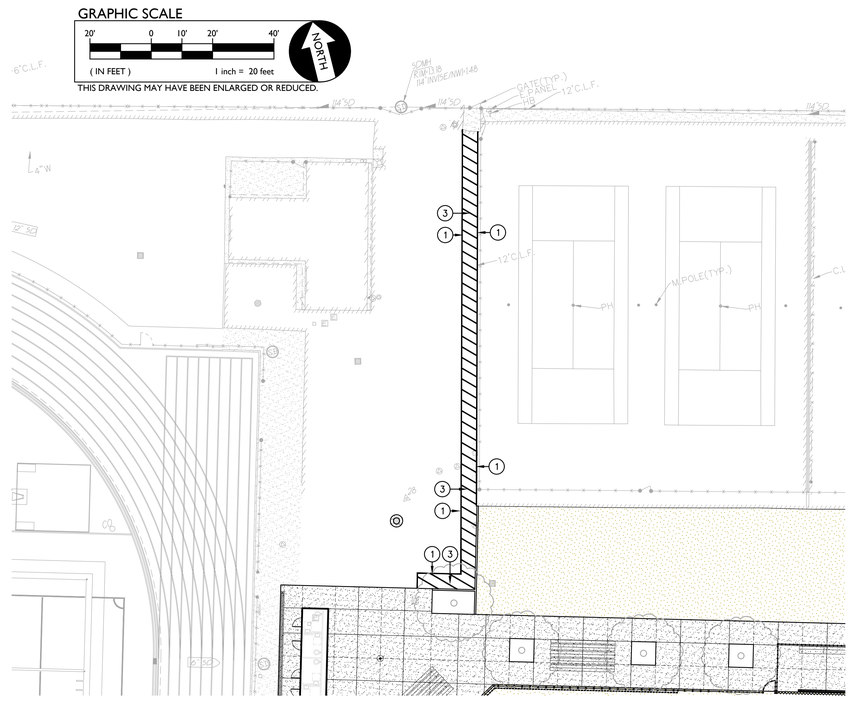
GRAPHIC SCALE

20' 0 10' 20' 40'

(IN FEET) 1 inch = 20 feet

NORTH

THIS DRAWING MAY HAVE BEEN ENLARGED OR REDUCED.



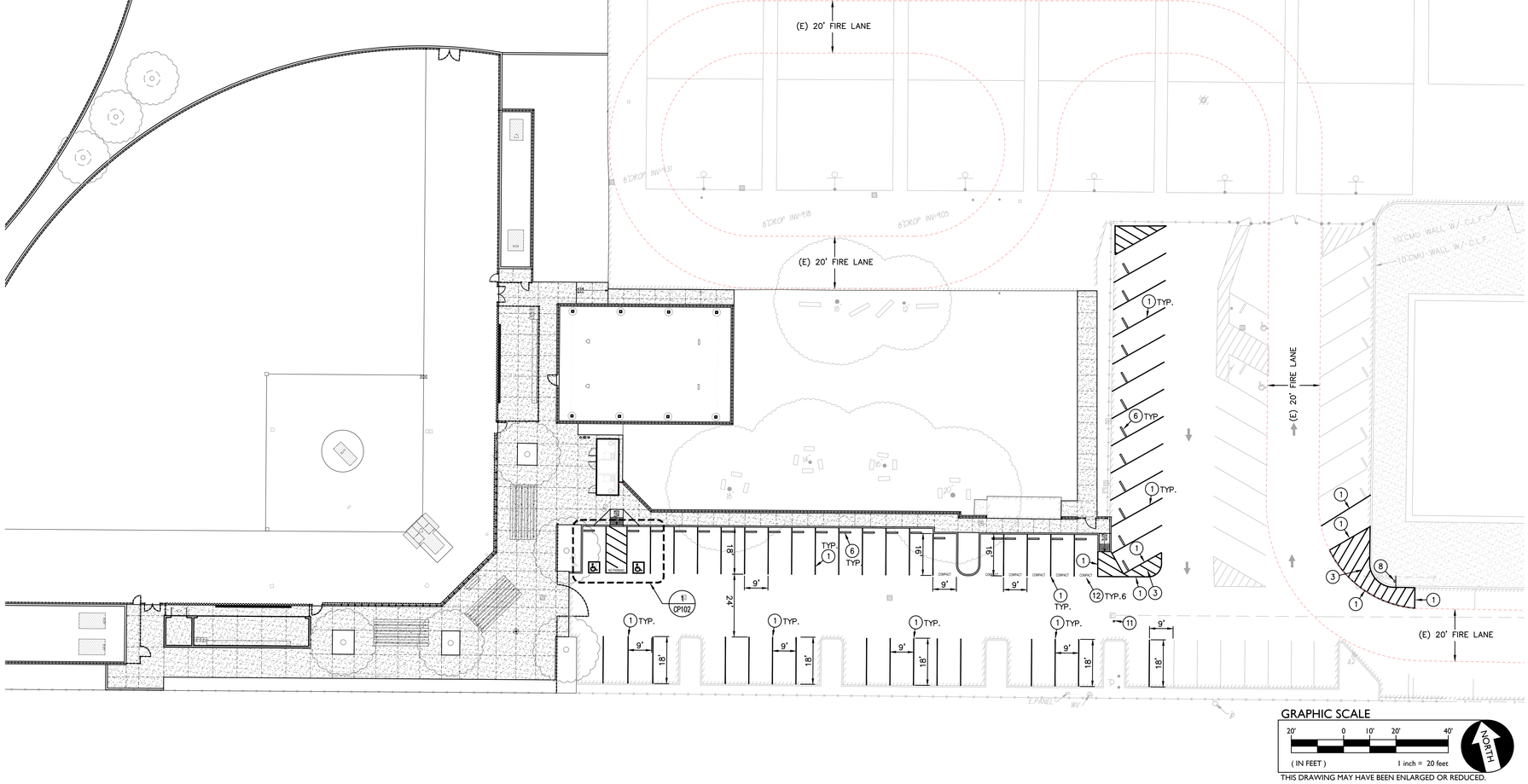
B STRIPING AND SIGNAGE PLAN

SCALE 1" = 20'-0"

ATTENTION: MIN. 30 DAY CURE TIME OF ASPHALT IS REQUIRED BY SPECIFICATION SECTION 32 12 00, 3.04A PRIOR TO THE PLACEMENT OF SEALCOAT. IF CURE TIME CANNOT BE PROVIDED DUE TO SCHEDULE, TEMPORARY STRIPING SHALL BE REQUIRED.

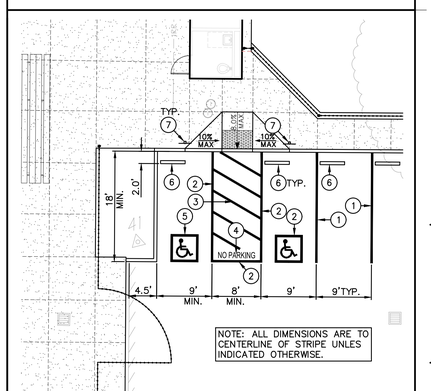
STRIPING SIGNAGE & EQUIPMENT LEGEND

1. PAINT 4" WIDE WHITE STRIPING IN LAYOUT AND PER THE DIMENSIONS SHOWN. WHERE SHOWN.
2. PAINT 4" WIDE BLUE STRIPING AROUND PERIMETER OF ACCESSIBLE LOADING ZONE AS SHOWN.
3. PAINT WHITE CROSS HATCH STRIPING. STRIPES SHALL BE 4" WIDE AND 36" O.C. AND 30° FROM PERPENDICULAR WITH PERIMETER STRIPING.
4. PAINT 12" HIGH WHITE LETTERING EXPRESSING "NO PARKING".
5. PAINT INTERNATIONAL SYMBOL FOR ACCESSIBILITY PARKING STALL SYMBOL IN ACCORDANCE WITH THE DIMENSIONS AND COLORING SHOWN IN THE PROVIDED DETAIL. (7 / CS503)
6. PLACE 48" LONG CONCRETE WHEEL STOP PER THE DETAIL (15 / CS501) PROVIDED.
7. INSTALL ACCESSIBLE PARKING SIGN PER THE DETAIL PROVIDED. WHERE SHOWN ON PLAN AS "VAN" ACCESSIBLE STALL, PROVIDE EXTRA "VAN ACCESSIBLE" SIGN AS SHOWN IN DETAIL. (8 / CS503)
8. INSTALL ACCESSIBLE PARKING TOW AWAY SIGN PER THE (6 / CS503) DETAIL PROVIDED.
9. PAINT CURB TOP AND FACE STANDARD RED. OVER RED CURB PAINT, PAINT 4" TALL WHITE LETTERS CENTERED ON FACE OF CURB "NO PARKING – FIRE LANE" AT 25' ON CENTER.
10. PAINT 6" WIDE RED STRIPE ON PAVEMENT. WITHIN STRIPE, PAINT WITH 4" TALL WHITE LETTERS CENTERED IN STRIPE "NO PARKING – FIRE LANE" AT 25' ON CENTER. PAINT STRIPE IMMEDIATELY ADJOINING OTHER STRIPES WHEN OTHER STRIPING PRESENT.
11. PROVIDE AND INSTALL BLUE HYDRANT REFLECTOR AT ROAD CENTER AT NEW OR EXISTING FIRE HYDRANT LOCATION.
12. PAINT 12" HIGH WHITE LETTERING EXPRESSING "COMPACT".



C STRIPING AND SIGNAGE PLAN - SOUTH PARKING

SCALE 1" = 20'-0"



1 DETAIL STRIPING PLAN

SCALE 1" = 10'-0"

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AGENCY

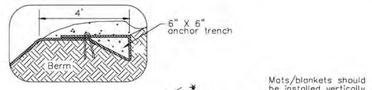
TITLE

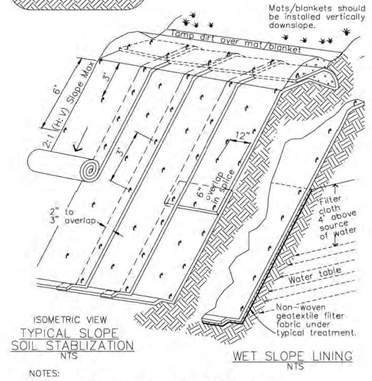
STRIPING PLAN

SHEET

CP102

EC-7 Geotextiles and Mats





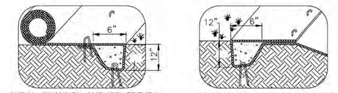
ISOMETRIC VIEW
TYPICAL SLOPE SOIL STABLIZATION
NTS

WET SLOPE LINING
NTS

NOTES:
1. Slope surface shall be free of rocks, clods, sticks and grass. Mats/blankets shall have good soil contact.
2. Lay blankets loosely and stake or staple to maintain direct contact with the soil. Do not stretch.
3. Install per manufacturer's recommendations

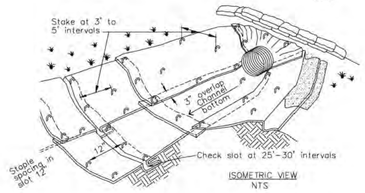
TYPICAL INSTALLATION DETAIL

Geotextiles and Mats EC-7

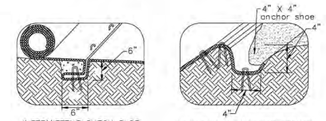


INITIAL CHANNEL ANCHOR TRENCH
NTS

TERMINAL SLOPE AND CHANNEL ANCHOR TRENCH
NTS



ISOMETRIC VIEW
NTS



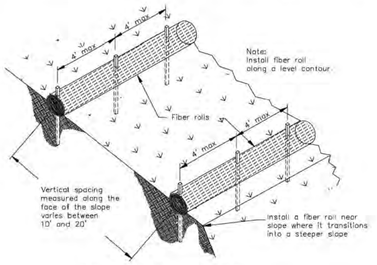
INTERMITTENT CHECK SLOT
NTS

LONGITUDINAL ANCHOR TRENCH
NTS

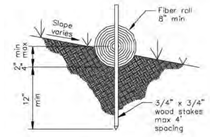
NOTES:
1. Check slots to be constructed per manufacturers specifications.
2. Staking or stapling layout per manufacturers specifications.
3. Install per manufacturer's recommendations

TYPICAL INSTALLATION DETAIL

SE-5 Fiber Rolls

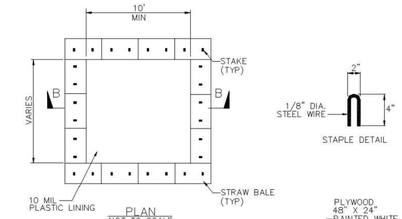


TYPICAL FIBER ROLL INSTALLATION
N.T.S.

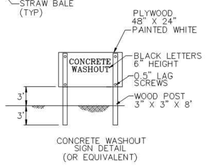


ENTRENCHMENT DETAIL
N.T.S.

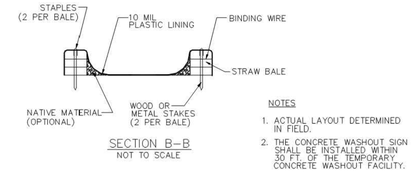
Concrete Waste Management WM-8



PLAN
NOT TO SCALE
TYPE "ABOVE GRADE" WITH STRAW BALES



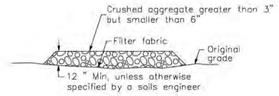
CONCRETE WASHOUT SIGN DETAIL
(OR EQUIVALENT)



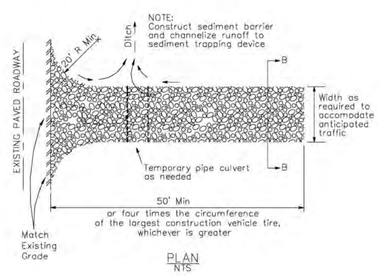
SECTION B-B
NOT TO SCALE

NOTES
1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT. OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

Stabilized Construction Entrance/Exit TC-1

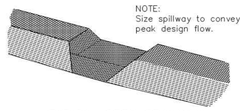


SECTION B-B
NTS

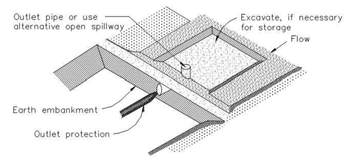


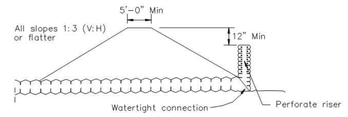
PLAN
NTS

Sediment Trap SE-3



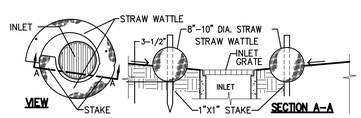
TYPICAL OPEN SPILLWAY





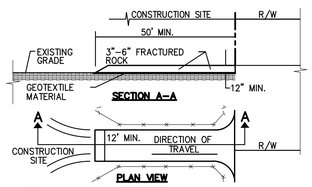
EMBANKMENT SECTION THRU RISER

TYPICAL SEDIMENT TRAP
NOT TO SCALE



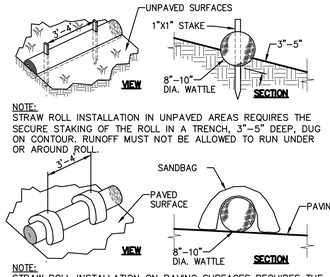
NOTE: STRAW WATTLE INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE WATTLE IN A TRENCH, 3-1/2" DEEP, DUG ON CONTOUR. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND ROLL.

4 CK001 STRAW WATTLE INLET FILTER NO SCALE



NOTES:
1. STABILIZED CONSTRUCTION SITE ACCESS SHALL BE CONSTRUCTED OF 3"-6" ANGULAR ROCK MATERIAL CONFORMING TO SECTION 26 OF STATE SPECIFICATIONS PLACED OVER GEOTEXTILE MATERIAL. ROCK SHALL BE PLACED TO A MINIMUM THICKNESS OF SIX INCHES. THE METHOD OF PLACING, SPREADING AND COMPACTING ROCK SHALL CONFORM TO SECTION 26 OF THE STATE SPECIFICATIONS.
2. LENGTH OF SITE ACCESS SHALL BE A MINIMUM LENGTH OF FIFTY FEET. WIDTH SHALL BE A MINIMUM WIDTH OF TWELVE FEET OR AS NECESSARY TO COVER ALL VEHICULAR INGRESS AND EGRESS.
3. THE SITE ACCESS SHALL BE KEPT IN GOOD CONDITION BY OCCASIONAL TOP DRESSING.

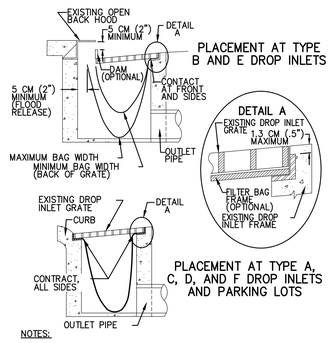
3 CK001 STABILIZED SITE ACCESS NO SCALE



NOTE:
STRAW ROLL INSTALLATION IN UNPAVED AREAS REQUIRES THE SECURE STAKING OF THE ROLL IN A TRENCH, 3"-5" DEEP, DUG ON CONTOUR. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND ROLL.

NOTE:
STRAW ROLL INSTALLATION ON PAVING SURFACES REQUIRES THE PLACEMENT WATTLES DIRECTLY ON PAVING SURFACE AND SECURED IN PLACE WITH SAND OR GRAVEL FILLED BAGS. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND ROLL.

2 CK001 STRAW ROLLS NO SCALE



NOTES:
1. THE MAXIMUM DRAINAGE AREA PER FILTER SHALL BE NO MORE THAN 0.8 HECTARES(2 ACRES)
2. THE FILTER BAG SHALL BE MANUFACTURED FROM UV RESISTANT POLYPROPYLENE, NYLON, POLYESTER, OR ETHYLENE FABRIC WITH A MINIMUM TENSILE STRENGTH OF 50 LBS. PER LINER FEET, AN EQUIVALENT OPENING SIZE NOT GREATER THAN A 20 SIEVE AND WITH A MINIMUM FLOW RATE OF 40 GALLON/MINUTE/SQUARE FOOT.
3. THE FILTER BAG MAY BE SUSPENDED FROM OR HELD IN PLACE BY THE EXISTING INLET GRATE (OR OTHER APPROVED METHOD), PROVIDING NO MODIFICATION OR DAMAGE SHALL BE DONE TO THE INLET GRATE OR FRAME. THE INLET GRATE SHALL NOT BE CAUSED THE REST MORE THAN 1.3 CM (.5") ABOVE THE INLET FRAME. (SEE DETAIL A).
4. THE FILTER BAG MAY EXTEND TO THE BOTTOM OF THE INLET BOX PROVIDED THE OUTLET PIPE IS UNOBSTRUCTED.
5. FLOWS SHALL NOT BE ALLOWED TO BYPASS THE BAG. THE BAG OR ITS FRAME SHALL CATCH FLOWS AT ALL SIDES OF THE INLET, EXCEPT AS SHOWN FOR FLOOD RELEASE.
6. INLET FILTER BAGS SHALL BE INSPECTED WEEKLY AND AFTER EACH RAINFALL DURING THE WET SEASON AND MONTHLY DURING THE DRY SEASON. SEDIMENT AND DEBRIS SHALL BE REMOVED BEFORE ACCUMULATIONS HAVE REACHED ONE THIRD THE DEPTH OF THE BAG. BAGS SHALL BE REPAIRED OR REPLACED AS SOON AS DAMAGE OCCURS.

1 CK001 STORM DRAIN INLET FILTER BAG NO SCALE

EROSION AND SEDIMENT CONTROL NOTES

1. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE EFFECTIVE FOR THE DURATION OF THE CONSTRUCTION ACTIVITY.
2. NO STORM RUNOFF WATER SHALL BE ALLOWED TO DRAIN DIRECTLY INTO THE EXISTING UNDERGROUND STORM SYSTEM BEFORE THE ONSITE STORM DRAIN SYSTEM IS INSTALLED.
3. AS SOON AS IS PRACTICAL AFTER THE NEW ONSITE STORM SYSTEM IS INSTALLED, THE CATCH BASINS SHALL BE INSTALLED AND BMP'S SHALL BE INSTALLED AS DESCRIBED IN SECTION 19.05, CONSTRUCTION SPECIFICATIONS.
4. SHOULD THE PROPOSED ONSITE STORM SYSTEM NOT BE INSTALLED BY OCTOBER 1ST, TEMPORARY SEDIMENT BASINS SHALL BE CONSTRUCTED AROUND THE OPENINGS OF ANY EXISTING STORM PIPES THAT DRAIN THE SITE, PER CASQA BMP'S AND STANDARDS OR PER A SPECIAL DETAIL SHOWN ON THE PLAN.
5. THE NAME, ADDRESS AND 24-HOUR TELEPHONE NUMBER OF THE PERSON RESPONSIBLE FOR IMPLEMENTATION OF THE EROSION AND SEDIMENTATION CONTROL PLAN SHALL BE PROVIDED.
6. PROVIDE STABILIZED ACCESS 50'MINIMUM LENGTH BY 10'-15'MINIMUM WIDTH. THE MINIMUM DEPTH OF STONES FOR THE ACCESS ROAD SHALL BE 12"OR AS RECOMMENDED BY A SOILS ENGINEER. SELECT ENTRANCE STABILIZATION MATERIALS (AGGREGATE, HMA, CONCRETE GREATER THAN 3"BUT SMALLER THAN 6") BASED ON LONGEVITY, REQUIRED PERFORMANCE AND SITE CONDITIONS. PROPERLY GRADE THE ACCESS AREA TO PREVENT RUNOFF AND DESIGN IT TO SUPPORT THE HEAVIEST VEHICLES IN USE. OTHER MEASURES TO PREVENT TRACKING ONTO ROADWAYS MAY BE USED IF APPROVED BY THE CITY. THIS DOES NOT NEED TO BE DONE AT DRIVEWAYS, WHICH WILL BE CLOSED BY IMMOVABLE BARRICADES DURING CONSTRUCTION.
7. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED UNTIL DISTURBED AREAS ARE STABILIZED. CHANGES TO THE EROSION AND SEDIMENTATION CONTROL PLAN SHALL BE MADE TO MEET FIELD CONDITIONS, BUT ONLY WITH THE APPROVAL OF OR AT THE DIRECTION OF THE CITY ENGINEER.
8. DURING THE RAINY SEASON AS SPECIFIED IN NOTE "1", ALL SIDEWALK AND PAVED AREAS SHALL BE KEPT CLEAR OF EARTH MATERIAL AND DEBRIS. THE SITE SHALL BE MAINTAINED SO AS TO MINIMIZE SEDIMENT LADEN RUNOFF FROM ENTERING ANY STORM DRAINAGE SYSTEM.
9. THE EROSION AND SEDIMENTATION CONTROL PLAN COVERS ONLY THE FIRST WINTER DURING WHICH CONSTRUCTION IS TO TAKE PLACE. PLANS ARE TO BE RESUBMITTED PRIOR TO SEPTEMBER 1 OF EACH SUBSEQUENT YEAR UNTIL THE CITY ACCEPTS THE SITE IMPROVEMENTS.
10. THE RESPONSIBILITY OF THE CONTRACTOR TO INSPECT AND REPAIR ALL EROSION CONTROL FACILITIES AT THE END OF EACH WORK DAY DURING THE RAINY SEASON.
11. THE RESPONSIBILITY OF THE CONTRACTOR TO CLEAN OUT SEDIMENT BASINS WHENEVER THE LEVEL OF SEDIMENT REACHES THE SEDIMENT CLEAN OUT LEVEL INDICATED ON THE PLANS.
12. THE RESPONSIBILITIES OF THE CONTRACTOR TO PROTECT TEMPORARY BORROW AREAS AND/OR STOCKPILES WITH APPROPRIATE EROSION CONTROL MEASURES SATISFACTORY TO THE CITY ENGINEER.
13. THE CLEANING OF PAVED STREETS, DURING AND AT THE COMPLETION OF CONSTRUCTION, SHALL BE PERFORMED WITH MECHANICAL SWEEPERS. THE USE OF WATER TRUCKS TO "WASH DOWN" THE STREET IS PROHIBITED.
14. THE EROSION AND SEDIMENTATION CONTROL PLAN, DETAILS, NOTES AND CALCULATIONS IF REQUIRED, MUST BE A PART OF THE PLAN CHECK SUBMITTAL PACKAGE FOR EITHER GRADING PERMIT ONLY OR FINAL SITE APPROVAL. THE DESIGN ENGINEER PRIOR TO PLAN PREPARATION SHOULD CONSULT THE CITY ENGINEER IF THE NEED FOR A SEPARATE PLAN IS IN DOUBT.

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www.lionakis.com

CONSULTANT
WCE
WARREN CONSULTING ENGINEERS, INC.
1117 WINDFIELD WAY, SUITE 110
EL DORADO HILLS, CA 95762 | (916) 985-1870
REGISTERED PROFESSIONAL ENGINEER ANTHONY J TASSIANO NO. C74698 STATE OF CALIFORNIA
12/7/2023

SEAL

PROJECT
MC CLATCHY HIGH SCHOOL ATHLETIC FIELD RENOVATION

3066 FREEPORT BLVD.
SACRAMENTO, CA 95818

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

3500 FLORIN ROAD, SACRAMENTO, CA 95823

ISSUED

MARK	DATE	DESCRIPTION
-	8/18/2023	DSA SUBMITTAL
	12/7/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

LIONAKIS PROJECT NO:	023040
DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	02-121610
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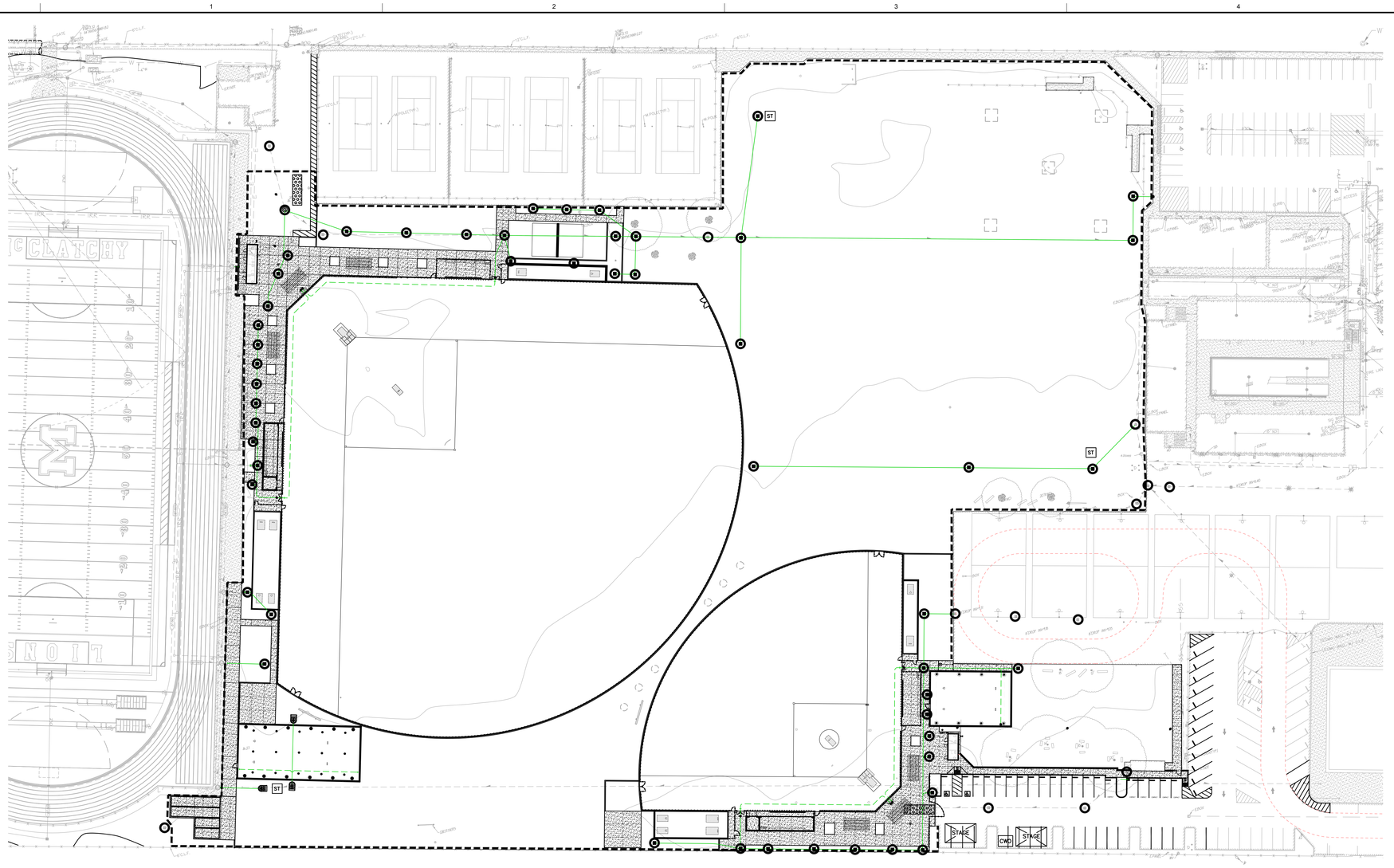
AGENCY

TITLE
EROSION CONTROL NOTES & DETAILS

SHEET
CK001



1 EROSION CONTROL

SCALE 1" = 40'-0"

SEDIMENT TRAP NOTE

SHAPE OF SEDIMENT TRAPS CAN BE VARIABLE AND BE CONSTRUCTED WITH SIMPLE GRADED BERMS OR PLUGGING OF SELECT STORM DRAINS (WHICH WILL NOT CREATE A HAZARD) TO CAPTURE RUNOFF. WATER MAY BE RELEASED FROM BASINS IF ENOUGH TIME HAS ALLOWED SEDIMENTS IN WATER TO SETTLE OUT. SAMPLING OF WATER PRIOR TO DISCHARGE MAY BE REQUIRED. REFER TO SWPPP. CONTRACTOR SHALL MAKE PREPARATIONS FOR PUMPING AND FILTERING IN THE EVENT GRAVITY DRAINING CANNOT BE PERFORMED. SEE ADDITIONAL REQUIREMENTS AND SIZING LISTED BELOW:

1. SEDIMENT TRAPS SHALL BE CONSTRUCTED AS THE FIRST STEP WHEN THERE IS MASS CLEARING OR GRADING AND SHALL BE LOCATED AT THE POINT WHERE DRAINAGE DISCHARGES FROM A SITE AS NOTED ON PLANS.
2. THE TRAP STORAGE VOLUME SHALL BE DESIGNED FOR 35 CUBIC YARDS PER ACRE OF CONTRIBUTING DRAINAGE AREA.
3. SIDE SLOPES SHALL BE 3:1 (H:V) OR FLATTER AND THE MAXIMUM DEPTH SHALL BE 3.5 FEET.
4. THE LENGTH OF A SEDIMENT TRAP SHALL BE 2 TIMES (MINIMUM) ITS WIDTH.

MAINTENANCE:

1. TRAP MAINTENANCE SHALL BE YEAR ROUND. SEDIMENT MATERIAL SHALL BE REMOVED FROM THE BOTTOM TO RETAIN ONE FOOT OF CAPACITY AT ALL TIMES.
2. TRAP SLOPES SHALL BE KEPT IN GOOD REPAIR. SLOPE FAILURES OR DAMAGE SHALL BE REPAIRED PROMPTLY.

IF NOT SPECIFICALLY SHOWN, CONTRACTOR SHALL ADD THESE ITEMS TO THIS MAP AS THEY ARE LOCATED IN THE FIELD

- CONSTRUCTION TRAILER.
- VEHICLE/EQUIPMENT MAINTENANCE AND FUELING AREA.
- COVERED WASTE STORAGE (DUMPSTERS).
- STAGE — STAGING AREA
- MATERIAL STORAGE
- SP — SOIL STOCKPILES.
- CWO — CONCRETE WASHOUT.

MONITORING SCHEDULE

1. WITHIN 2 BUSINESS DAYS (48 HOURS) PRIOR TO EACH QUALIFYING RAIN EVENT.
2. EVERY 24 HOURS DURING A QUALIFYING RAIN EVENT.
3. WITHIN 2 BUSINESS DAYS (48 HOURS) AFTER EACH QUALIFYING RAIN EVENT RESULTING IN 0.50 INCHES OF RAIN OR MORE.
4. RECORD THE TIME, DATE AND RAIN GAUGE READING OF ALL QUALIFYING RAIN EVENTS.
5. QUARTERLY NON-STORM WATER DISCHARGE INSPECTIONS.
6. WEEKLY INSPECTIONS.

FINAL STABILIZATION NOTE

ALL DISTURBED AREAS, WHICH ARE NOT PAVED OR SURFACED AS PART OF THESE PLANS, OR LANDSCAPED AS PART OF THE LANDSCAPE PLANS, EVEN THOSE AREAS NOT SHOWN TO BE DISTURBED BY THIS SET OF PLANS BUT ARE OTHERWISE DISTURBED BY CONSTRUCTION OR ACCESS BY EQUIPMENT, SHALL BE STABILIZED BY ONE OF THE FOLLOWING METHODS:

1. HYDROSEED (ACCEPTABLE ONLY IF SUFFICIENT TIME IS PRESENT TO ENSURE VEGETATION ESTABLISHMENT PRIOR TO RAIN EVENTS.)
2. HYDROSEED WITH EROSION CONTROL BLANKETS OR MATS.
3. STRAW MULCH WITH SOIL BINDERS.
4. METHODS MAY BE APPROVED BY THE COUNTY AFTER REVIEW WITH COUNTY INSPECTOR.

S.W.P.P.P. CONTACTS

S.W.P.P.P. PREPARED BY (QSD): _____ PHONE: _____

S.W.P.P.P. PREPARED BY (QSD): _____ PHONE: _____

S.W.P.P.P. ENFORCED BY (QSP): _____ PHONE: _____

RESPONSIBLE PARTY: _____

CONTACT NAME: _____

CONTACT PHONE: _____

EARTHWORK ESTIMATES

NET CUT QUANTITY TBD CY

NET FILL QUANTITY TBD CY

NET CUT/FILL TBD CY TBD

NOTE: THESE EARTHWORK VALUES ARE ONLY ESTIMATES BASED ON PERFECT CONDITIONS AND ARE INTENDED FOR PLAN CHECK PURPOSES ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CALULATE HIS/HER OWN EARTHWORK VALUES IN PREPARING BIDS. USE OF THESE VALUES FOR BID PURPOSES WILL BE AT YOUR OWN RISK.

ON/OFF HAUL GENERAL NOTE

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ANY AND ALL PERMITS, GRADING, EROSION, OR OTHER, NECESSARY FOR THE SITE IN WHICH SOIL IS ON-HAULED FROM, OR OFF-HAULED TO. LARGE QUANTITIES OF SOIL BEING HAULED MAY BE SUBJECT TO HAUL ROUTE APPROVAL AND SHALL BE DISCUSSED WITH SITE INSPECTOR. IF HAUL ROUTE APPROVAL IS REQUIRED, IT IS THE CONTRACTORS RESPONSIBILITY TO DEVELOP THIS PLAN AND GAIN APPROVAL.

PHASE OF CONSTRUCTION	EROSION AND SEDIMENT CONTROL MEASURES																	
	WET SEASON					WET & DRY SEASON												
	HYDRO-SEEDING	STRAW MULCHING/ TACTIFIER	SOIL BINDERS	PRESERVATION OF EXISTING VEGETATION	BLANKETS MATS & GEOTEXTILES	FIBER ROLLS	DUST CONTROL	OUTLET PROTECTION	SILT FENCING	SAND/GRAVEL BAG BARRIERS	STORM DRAIN INLET PROTECTION	SEDIMENT BASIN	SEDIMENT TRAP	DEWATERING	STABILIZED CONSTRUCTION ENTRANCE	MATERIAL & WASTE DISPOSAL LOCATION	CONCRETE WASHOUT
PRE-GRADING				X			X											
CUT-FILL ACTIVITIES		X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	
UNDERGROUND WORK		X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
STORM IMPROVEMENTS		X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
CURB AND GUTTER		X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
STREET IMPROVEMENTS		X	X	X	X	X	X	X	X	X	X		X	X	X	X	X	X
PAVE OUT	X			X	X		X	X		X	X			X			X	X
POST CONSTRUCTION	X	X	X	X														

SITE CONDITION	DUST CONTROL PRACTICES								
	PERMANENT VEGETATION	MULCHING	WET SUPPRESSION (WATERING)	CHEMICAL DUST SUPPRESSION	GRAVEL OR ASPHALT	SILT FENCES	TEMPORARY GRAVEL CONSTRUCTION ENTRANCES AND EQUIPMENT WASHDOWN	HAUL TRUCK COVERS	MINIMIZE EXTENT OF DISTURBED AREA
DISTURBED AREAS (NON-TRAFFIC)	X	X	X	X	X	X	X	X	X
DISTURBED AREAS (TRAFFIC)		X	X	X	X	X	X	X	X
MATERIAL STOCKPILE AND STABILIZATION	X	X	X	X	X	X	X	X	X
DEMOLITION			X	X			X	X	X
CLEARING AND EXCAVATING	X	X	X	X	X	X	X	X	X
TRUCK TRAFFIC ON UN-PAVED ROADS			X	X	X		X	X	X
MUD AND DIRT CARRY-OUT	X	X	X	X	X	X	X	X	X

PLOT DATE: 12/7/2023 1:22:09 PM FILE: I:\23-087\CIVIL\DWG\23-087 - 112 - CK001-CK101.DWG

LEGEND

NEW EX

GENERAL EROSION CONTROL NOTES

NOTE: EXACT LOCATION WILL BE DETERMINED BY CONTRACTOR

1. CONTRACTOR SHALL PROVIDE STRAW WATTLE BARRIER AT ALL INLETS (NEW AND/OR EXIST.) IN AREAS OF WORK, OR AS REQUIRED BY CONTRACTOR'S SWPPP. FOR INLETS WITHIN PROPOSED PAVED AREAS, USE STRAW WATTLE FILTERS UNTIL JUST PRIOR TO PAVING OPERATIONS, THEN REPLACE WITH FILTER BAGS PER THE DETAILS PROVIDED. FILTER BAGS ARE NOT ALLOWED IN UNPAVED AREAS. (1 CK001) (4 CK001)
2. CONTRACTOR SHALL PROVIDE STRAW WATTLES AT PERIMETER OF SITE AND IN AREAS REQUIRED TO ELIMINATE OR IMPEAD THE FLOW OF SEDIMENT. IN PAVED AREAS, WATTLES CAN BE PLACED OVER PAVING AND HELD IN PLACE WITH SANDBAGS AT 6' O.C. (2 CK001) (SE-5 CK001)
3. CONTRACTOR SHALL PROVIDE STABILIZED CONSTRUCTION SITE ACCESS PER DETAIL AT LOCATIONS REQUIRED FOR CONSTRUCTION ACTIVITIES. (TC-1 CK001)
4. CONTRACTOR SHALL CONSTRUCT AND UTILIZE A CONCRETE WASH-OUT IN ACCORDANCE WITH WM-8 OF THE CALIFORNIA STORMWATER QUALITY ASSOCIATION BMP HANDBOOK. (CWO)
5. CONTRACTOR SHALL CONSTRUCT AND UTILIZE A STAGING AREA IN ACCORDANCE WITH ALL APPLICABLE REQUIREMENTS IN SECTION 4 OF THE CALIFORNIA STORMWATER QUALITY ASSOCIATION BMP HANDBOOK. SIZE AS NEEDED. AFTER CONSTRUCTION COMPLETE, RETURN AREA TO NATURAL CONDITION. REMOVE AND REPLACE ALL DAMAGED PAVEMENT. HYDROSEED IF NECESSARY COVER ANY UN-SURFACED AREAS. (STAGE)
6. TO CAPTURE RUNOFF AND PROTECT FROM DISCHARGE, SEDIMENT TRAPS PER STADNARD SE-3 ARE RECOMMENDED IN LOW AREAS COLLECTING SIGNIFICANT RAINFALL. (ST) (SE-3 CK001)
7. CONTRACTOR SHALL STABILIZE OUTLET STRUCTURE PER CASQA STANDARD DETAIL EC-7 UNTIL FINAL RIP-RAP AND OTHER MEASURES ARE INSTALLED. (EC-7 CK001)

GRAPHIC SCALE

(IN FEET) 40' 0 20' 40' 80'

1 inch = 40 feet

THIS DRAWING MAY HAVE BEEN ENLARGED OR REDUCED.

NORTH

811 Know what's below. Call before you dig.

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Sacramento, CA 95818
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CONSULTANT

WCE
WARREN CONSULTING ENGINEERS, INC.
1117 WINDFIELD WAY, SUITE 110
EL DORADO HILLS, CA 95762 | (916) 985-1870

REGISTERED PROFESSIONAL ENGINEER ANTHONY J TASSANO NO. C74698 STATE OF CALIFORNIA 12/07/2023

SEAL

PROJECT
MC CLATCHY HIGH SCHOOL
ATHLETIC FIELD RENOVATION

3066 FREEPORT BLVD.
SACRAMENTO, CA 95818

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

3500 FLORIN ROAD, SACRAMENTO, CA 95823

ISSUED

MARK	DATE	DESCRIPTION
-	8/18/2023	DSA SUBMITTAL
	12/7/2023	BID SET - NOT DSA APPROVED

PROJECT INFORMATION

PROJECT NAME:
C.K. McCLATCHY HIGH SCHOOL
ATHLETIC FIELD REPLACEMENT

SWPPP REQUIRED:	YES
RISK LEVEL:	2
PARCEL AREA	49.00 ACRES
ON-SITE DISTURBED AREA	8.95 ACRES
OFF-SITE DISTURBED AREA	0.00 ACRES
TOTAL DISTURBED AREA	8.95 ACRES

CONSTRUCTION SCHEDULE (ESTIMATED)

ACTIVITY	DATE	DATE
GRADING/UTILITIES	–	–
FINAL STABILIZATION	–	–

THIS IS NOT A S.W.P.P.P.

THE PURPOSE OF THIS PLAN IS TO AID THE CONTRACTOR IN THE DEVELOPMENT OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP). WARREN CONSULTING ENGINEERS, INC. ASSUMES NO RESPONSIBILITY FOR THE PREPARATION, IMPLEMENTATION, OR MAINTENANCE OF THE SWPPP. SHOULD A SWPPP NOT BE REQUIRED FOR THIS PROJECT, IT IS STILL THE RESPONSIBILITY OF THE CONTRACTOR TO IMPLEMENT THE APPLICABLE STORMWATER QUALITY BMP'S IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IMPLEMENT HIS/HER OWN METHODS AND PRODUCTS TO COMPLY WITH THESE ORDINANCES.

ON/OFF HAUL GENERAL NOTE

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ANY AND ALL PERMITS, GRADING, EROSION, OR OTHER, NECESSARY FOR THE SITE IN WHICH SOIL IS ON-HAULED FROM, OR OFF-HAULED TO. LARGE QUANTITIES OF SOIL BEING HAULED MAY BE SUBJECT TO HAUL ROUTE APPROVAL AND SHALL BE DISCUSSED WITH SITE INSPECTOR. IF HAUL ROUTE APPROVAL IS REQUIRED, IT IS THE CONTRACTORS RESPONSIBILITY TO DEVELOP THIS PLAN AND GAIN APPROVAL.

SWPPP GENERAL NOTES & REQUIREMENTS

1. ANY CHANGES MADE TO THIS PLAN IN THE FIELD MUST BE SHOWN ON THIS MAP. UPDATE MAP TO REFLECT CHANGES.
2. MAINTENANCE/REPAIRS OF BMP FAILURE SHALL BEGIN WITHIN 72 HOURS OF IDENTIFICATION AND CHANGES SHALL BE COMPLETED PRIOR TO THE NEXT RAIN EVENT.
3. SEDIMENT AND EROSION CONTROL MEASURES ON THIS PLAN ARE MINIMUM BMP'S RECOMMENDED FOR COMPLIANCE. CONSTRUCTION SITE MUST BE MONITORED AND BMP'S SHALL BE MODIFIED DEPENDING ON CONSTRUCTION SCHEDULE AND RAIN EVENTS.

SEE GENERAL NOTES ON SHEET CK001

MANAGEMENT

LIONAKIS PROJECT NO:	023040
DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	02-121610
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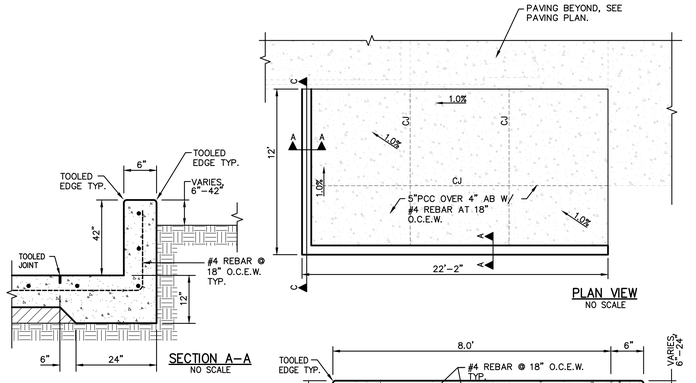
AGENCY

TITLE
EROSION CONTROL PLAN

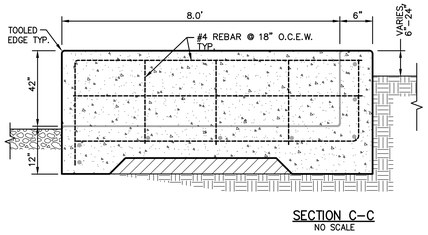
SHEET
CK101

PLOT DATE: 12/7/2023 1:22:09 PM FILENAME:I:\23-087\CIVIL\DWG\23-087 - 112 - CK001-CK101.DWG



SECTION A–A
NO SCALE

PLAN VIEW
NO SCALE



SECTION C–C
NO SCALE

18 CS501 MATERIAL STORAGE
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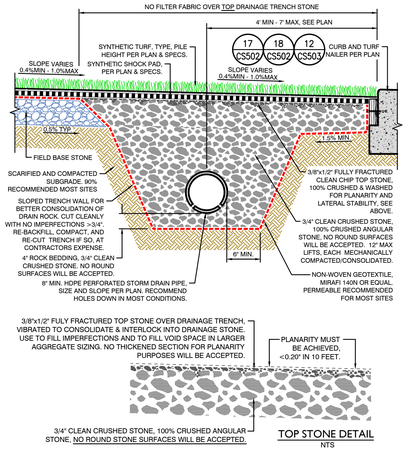
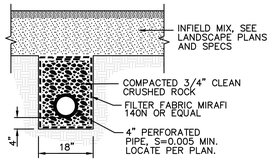


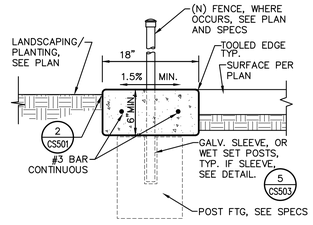
TOP STONE DETAIL
NTS

19 CS501 SYNTHETIC TURF SUBDRAIN
NO SCALE



20 CS501 INFIELD SUBDRAIN
NO SCALE

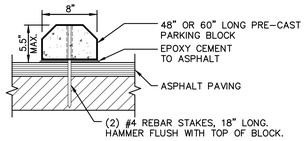
21 CS501 NOT USED
NO SCALE



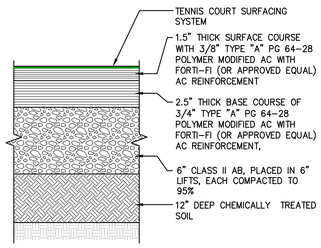
NOTES:

1. WHERE NO FENCING, PROVIDE CONTROL JOINT EVERY 10 FEET, EXPANSION JOINT EVERY 30 FEET, TYP. WHERE FENCING EXISTS, PROVIDE TOOLED JOINT EVERY POST, EXPANSION EVERY 3RD POST.
2. CONCRETE APRON THICKNESS MAY COUNT FOR POST FOOTING TOTAL DEPTH BUT MUST BE PLACED BEFORE FABRIC OR PANEL INSTALLATION.

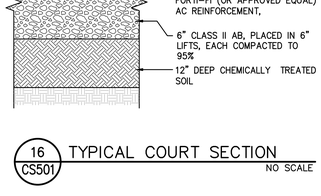
14 CS501 CONCRETE APRON
NO SCALE



15 CS501 CONCRETE WHEEL STOP
NO SCALE



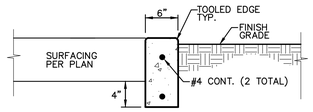
16 CS501 TYPICAL COURT SECTION
NO SCALE



NOTES:

1. WHERE NO FENCING, PROVIDE CONTROL JOINT EVERY 10 FEET, EXPANSION JOINT EVERY 30 FEET, TYP. WHERE FENCING EXISTS, PROVIDE TOOLED JOINT EVERY POST, EXPANSION EVERY 3RD POST.
2. CONCRETE APRON THICKNESS MAY COUNT FOR POST FOOTING TOTAL DEPTH BUT MUST BE PLACED BEFORE FABRIC OR PANEL INSTALLATION.

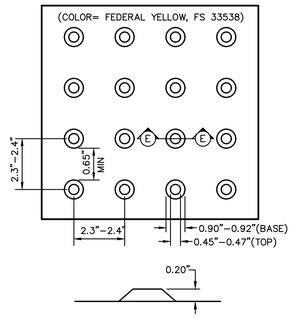
17 CS501 RAISED CONCRETE APRON
NO SCALE



NOTES:

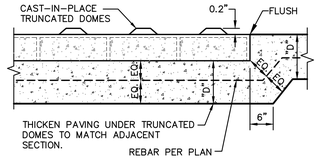
1. PROVIDE FELT EXPANSION JOINTS (E.J.) AT 60 FEET O.C. PROVIDE CONTROL JOINTS AT 10 FEET O.C., EXCEPT WHEN PLACING ADJACENT TO CONCRETE WALKS THE EXPANSION JOINTS SHALL ALIGN WITH THE EXPANSION JOINTS SHOWN FOR THE CONCRETE WALKS.
2. AT E.J. USE 1/2"X24" SMOOTH DOWELS, ALIGN WITH REBAR,GREASE 1/2 THE LENGTH BEFORE CONCRETE PLACEMENT.

9 CS501 FLUSH CONCRETE CURB
NO SCALE

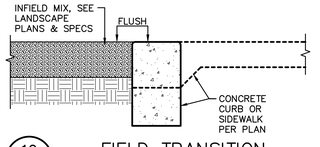


SECTION E-E

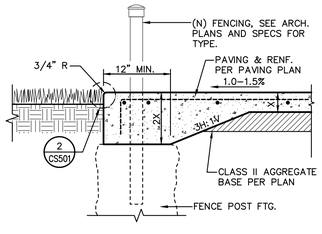
10 CS501 TRUNCATED DOMES
TYPICAL PATTERN
NO SCALE



11 CS501 SLAB AT TRUNCATED DOMES
NO SCALE



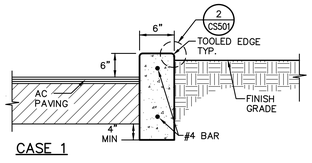
12 CS501 FIELD TRANSITION
NO SCALE



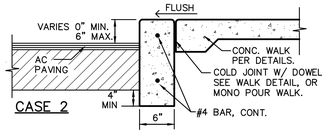
NOTES:

1. CONCRETE WALK JOINTS SHALL EXTEND OVER AND DOWN THE FACE OF SLAB EDGE.
2. CONCRETE SLAB EDGE THICKNESS MAY COUNT FOR POST FOOTING TOTAL DEPTH BUT MUST BE PLACED BEFORE FABRIC OR PANEL INSTALLATION.

13 CS501 SLAB EDGE WITH FENCE
NO SCALE



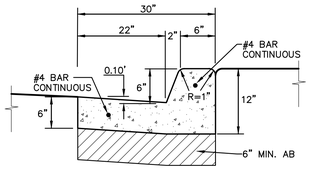
CASE 1



CASE 2

PROVIDE EXPANSION JOINTS AT 20' ON CENTER AND TOOLED CONTROL JOINTS EVERY 10' BETWEEN, OR WHEN ADJOINING CONCRETE WALKS, MATCH WALK JOINTING.

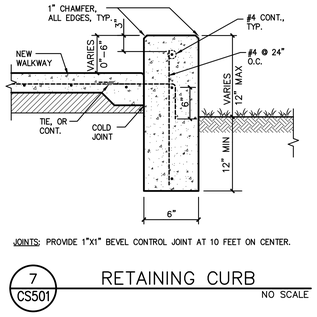
5 CS501 CONCRETE CURB
NO SCALE



NOTES:

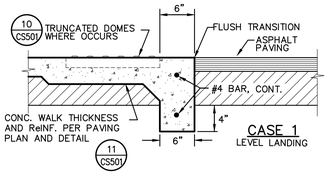
1. PROVIDE FELT EXPANSION JOINTS (E.J.) AT 20 FEET O.C. PROVIDE CONTROL JOINTS AT 10 FEET O.C., EXCEPT WHEN PLACING ADJACENT TO CONCRETE WALKS THE EXPANSION JOINTS SHALL ALIGN WITH THE EXPANSION JOINTS SHOWN FOR THE CONCRETE WALKS. SEAL E.J. WITH APPROVED JOINT SEALANT.
2. AT E.J. USE 1/2"X24" SMOOTH DOWELS, ALIGN WITH REBAR,GREASE 1/2 THE LENGTH BEFORE CONCRETE PLACEMENT.

6 CS501 CONCRETE CURB AND GUTTER
NO SCALE

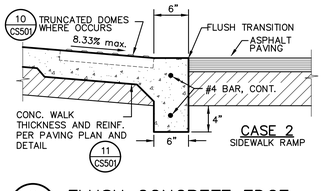


JOINTS: PROVIDE 1"X1" BEVEL CONTROL JOINT AT 10 FEET ON CENTER.

7 CS501 RETAINING CURB
NO SCALE

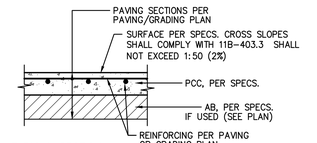


CASE 1
LEVEL LANDING

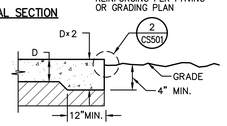


CASE 2
SIDEWALK RAMP

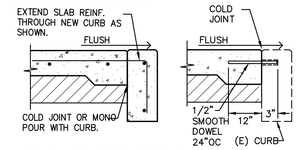
8 CS501 FLUSH CONCRETE EDGE
NO SCALE



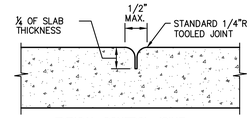
TYPICAL SECTION



TYPICAL THICKENED EDGE

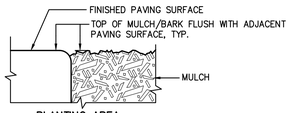


TYPICAL EXPANSION JOINT AT CURB

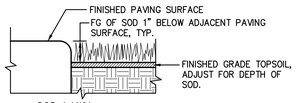


TYPICAL CONTROL JOINT

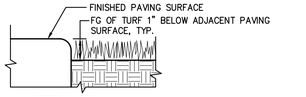
1 CS501 CONCRETE SIDEWALK
NO SCALE



PLANTING AREA

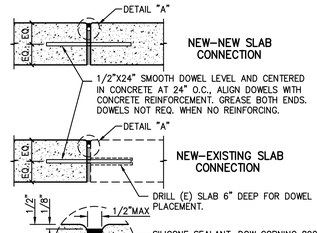


SOD LAWN



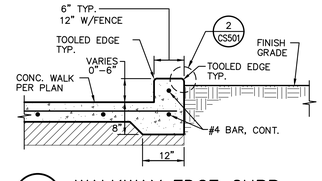
SEED LAWN

2 CS501 PAVING EDGE DETAIL
NO SCALE



DETAIL A

3 CS501 EXPANSION JOINT
NO SCALE



4 CS501 WALKWAY EDGE CURB
NO SCALE

LIONAKIS
2025 Nineteenth Street
Sacramento, CA 95818
P 916.558.1900
www.lionakis.com

CONSULTANT
WCE
WARREN CONSULTING ENGINEERS, INC.
1117 WINDFIELD WAY, SUITE 110
EL DORADO HILLS, CA 95762 | (916) 985-1870
REGISTERED PROFESSIONAL ENGINEER ANTHONY J TASSANO NO. C74698 STATE OF CALIFORNIA
12/07/2023

SEAL

PROJECT
MC CLATCHY HIGH SCHOOL
ATHLETIC FIELD RENOVATION
3066 FREEPORT BLVD.
SACRAMENTO, CA 95818

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
3500 FLORIN ROAD, SACRAMENTO, CA 95823

ISSUED

MARK	DATE	DESCRIPTION
-	8/18/2023	DSA SUBMITTAL
	12/7/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

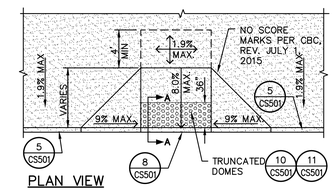
LIONAKIS PROJECT NO:	023040
DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	02-121610
COPYRIGHT:	LIONAKIS 2023

AGENCY

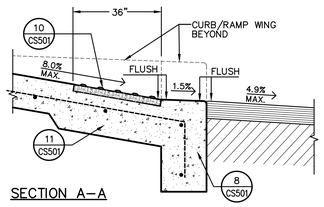
TITLE
SITE DETAILS

SHEET
CS501

IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY
0 1/4" 1/2" 1"
PLOT DATE: 12/7/2023 1:59:12 PM FILE: I:\23-087\CIVIL\DWG\23-087 - 114 - CS501-CS504.DWG
PLOT DATE: 12/7/2023 1:59:12 PM FILENAME:I:\23-087\CIVIL\DWG\23-087 - 114 - CS501-CS504.DWG

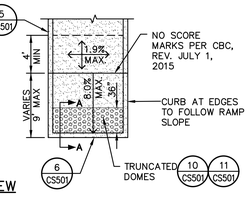


PLAN VIEW

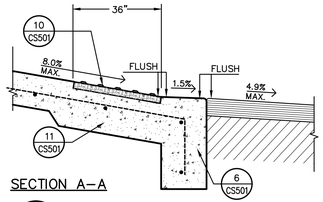


SECTION A–A

19 CS502 ACCESSIBLE CURB RAMP
TYPE 1 — NO SCALE

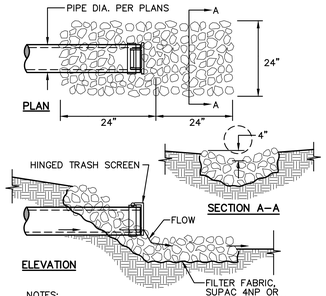


PLAN VIEW



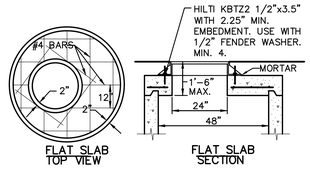
SECTION A–A

20 CS502 ACCESSIBLE CURB RAMP
TYPE 2 — NO SCALE

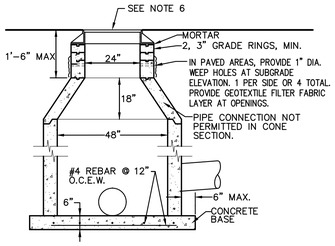


NOTES:
1. HAND PLACE ROCK.
2. ALL ROCK SHALL ROUND RIVER ROCK, 5"–8" DIA. AND GROUTED IN PLACE

21 CS502 OUTFALL STRUCTURE
10" PIPE OR SMALLER — NO SCALE

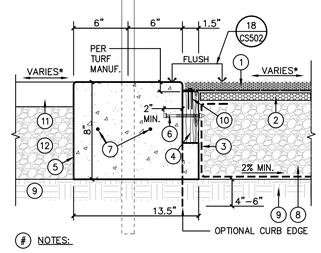


FLAT SLAB TOP VIEW — FLAT SLAB SECTION



NOTES:
1. RISER SECTIONS, CONES, AND ADJUSTING RING SHALL CONFORM TO ASTM DESIGNATION C–478.
2. FRAME SHALL BE SECURED TO RISER OR FLAT SLAB TOP WITH CEMENT MORTAR.
3. THE CONTRACTOR MAY AT HIS OPTION, CAST THE LOWER PORTION OF MANHOLE IN PLACE. THE CAST–IN–PLACE PORTION SHALL NOT BE PLACED HIGHER THAN 6 INCHES ABOVE THE OUTSIDE TOPS OF THE MAIN INCOMING AND OUTGOING PIPES.
4. ALL JOINTS SHALL BE SEALED WITH GROUT AND INSIDE OF MANHOLE SHALL BE GROUTED SMOOTH.
5. FLAT SLAB SHALL BE USED WHEN DEPTH DOES NOT PERMIT USE OF TAPER UNIT.
6. SLOTTED CAST IRON GRATE AND FRAME SHALL BE D&L C2669 (C2669ADA IN PAVED AREAS) OR APPROVED EQUAL. PROVIDE WITH TWO (2) BOLTS TO BOLT COVER/GRATE TO FRAME. SOLID COVERS TO BE MARKED "STORM DRAIN". ALL CASTINGS TO BE DIPPED IN BLACK BITUMINOUS PAINT.

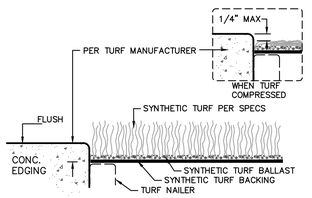
16 CS502 STORM DRAIN MANHOLE
NO SCALE



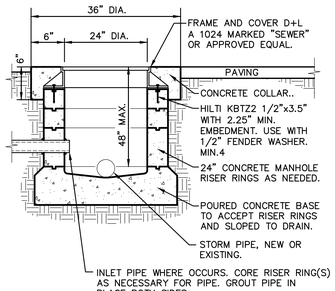
(#) NOTES:
1. SYNTHETIC TURF & BALLAST/INFILL PER SPEC.
2. SYNTHETIC UNDERLAYMENT PAD (SHOCK PAD)
3. GEO–FABRIC, MIRAFI 140 N OR EQUAL.
4. 2x4 OR 2x6 NAILER, SYNTHETIC, PER SPECS.
5. CONCRETE CURB, 3000 PSI MIN. (28 DAY), PER SPECS.
6. 1/2"x5" ANCHOR BOLT W/ NYLON NUT AND WIDE FLANGE WASHER @ 24" O.C., WET SET IN FORM WITH NAILER.
7. REBAR, #4 GRADE 60, TYP. OF 2.
8. BASE AND/OR DRAINAGE AGGREGATE LAYER, PER PAVING PLAN, AND PER SPECS.
9. COMPACTED SUBGRADE PER SPECIFICATIONS.
10. TURF STAPLES & SPACING PER TURF MANUFACTURER SPECS.
11. SURFACING PER PLAN, SEE PAVING PLAN & SPECS.
12. AGGREGATE BASE, SEE PAVING PLAN & SPECS

*=SLOPE MAY VARY, SEE GRADING PLAN
ASPHALT 1.0% MIN. – 1.8% MAX (SEE PLAN)
SYN. TURF 0.4% MIN. – 1.0% MAX (SEE PLAN)

17 CS502 SYNTHETIC TURF CURB/NAILER
NO SCALE



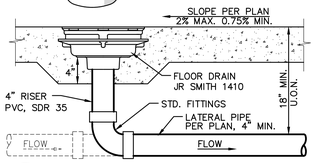
18 CS502 SYNTHETIC TURF TRANSITION
NON–INFILLED — NO SCALE



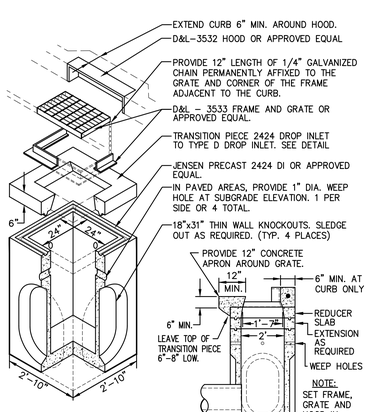
NOTES:
1. RISER SECTIONS, CONES, AND ADJUSTING RING SHALL CONFORM TO ASTM DESIGNATION C–478.
2. FRAME SHALL BE SECURED TO RISER OR FLAT SLAB TOP WITH CEMENT MORTAR.
3. CONCRETE BASE MAY BE CAST–IN–PLACE AND POURED AGAINST UNDISTURBED MATERIAL, 3000. PSI MIN.
4. CONCRETE BASE MAY BE PRE–CAST CONCRETE SET ON 4" MIN. 3/4" CRUSHED ROCK PLACED ON COMPACTED SUBGRADE.
5. ALL JOINTS SHALL BE SEALED WITH GROUT.

12 CS502 24" STORM MANHOLE
NO SCALE

GRATE DETAIL
NO SCALE

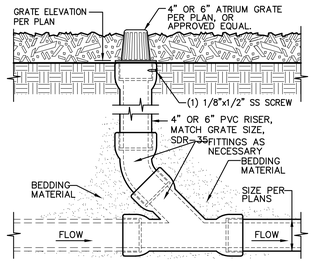


13 CS502 FLOOR DRAIN
NO SCALE

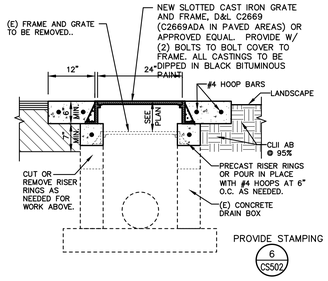


14 CS502 CURB INLET
BOX DESIGN LOAD: H–20 TRAFFIC — NO SCALE

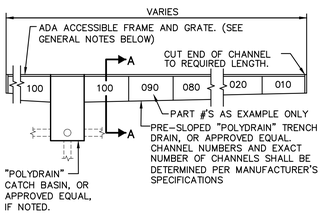
15 CS502 NOT USED
NO SCALE

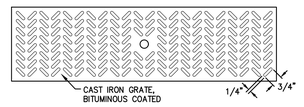


9 CS502 PLANTER DRAIN
4" AND 6", SIZE PER PLAN — NO SCALE

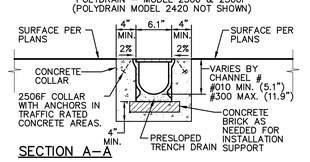


10 CS502 ADJUSTED DRAIN/MANHOLE
NO SCALE





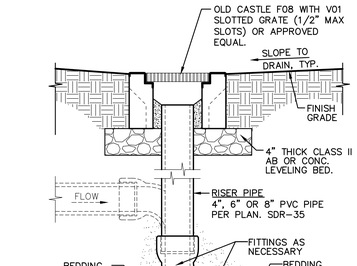
GRATE DETAIL
POLYDRAIN – MODEL 2506 & 2506F
(POLYDRAIN MODEL 2420 NOT SHOWN)

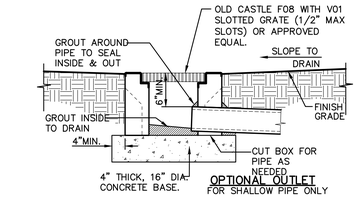


SECTION A–A

GENERAL NOTES:
1. GRATE SHALL BE CAST IRON, TRAFFIC RATED (WHERE SPECIFIED), HEELPROOF, MULTI–DIRECTIONALLY ADA ACCESSIBLE GRATE WITH MANUFACTURER OR PRE–INSTALLATION APPLIED RUST INHIBITIVE BLACK COATING. NON–TRAFFIC MAINTENANCE AREAS MAY BE GALVANIZED STEEL, SEE BELOW.
   POLYDRAIN – MODEL 2506 ALL PEDESTRIAN AREAS
   POLYDRAIN – MODEL 2506F ALL TRAFFIC AREAS
   POLYDRAIN – MODEL 2420 NON–TRAFFIC MAINT. AREAS
2. CONTRACTOR SHALL FURNISH AND INSTALL A MODEL 810A LOCKING DEVICE, OR APPROVED EQUAL, FOR ALL TRENCH DRAIN GRATES.
3. CONTRACTOR SHALL PURCHASE AND FURNISH THE MAINTINENCE/OPERATIONS DEPARTMENT OF THE SCHOOL WITH 1 MODEL 2231 TRENCH DRAIN SHOVEL HEAD, WITH STANDARD WOOD, OR COMPOSITE HANDLES.
4. ALL MITERED JOINTS SHALL BE SEALED WITH POLYDRAIN "POLYSEAL" CAULKING OR APPROVED EQUAL.

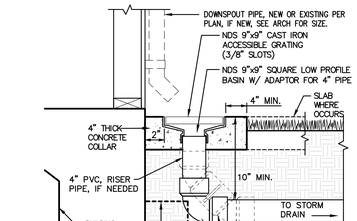
11 CS502 TRENCH DRAIN DETAIL
POLYDRAIN IS BASIS OF DESIGN ALTERNATES MAY APPROVED WITH SUBMITTAL IF FOUND EQUAL. — NO SCALE





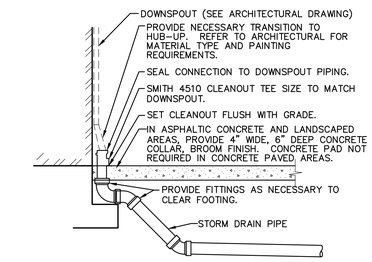
5 CS502 AREA DRAIN
NO SCALE

6 CS502 STORMWATER STAMP/PLAQUE
OTHER STYLES OK WITH APPROVAL — NO SCALE

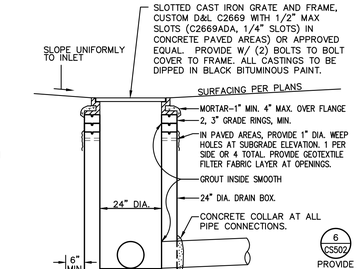


NOTE:
1. HOLD DRAIN TRUE AND LEVEL DURING CONCRETE FORMING & PLACEMENT.

7 CS502 DOWNSPOUT CONNECTION
TYPE 1 — NO SCALE

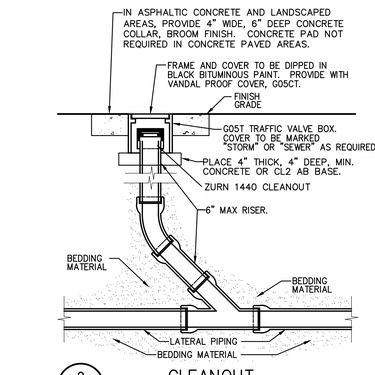


8 CS502 DOWNSPOUT CONNECTION
TYPE 2 — NO SCALE

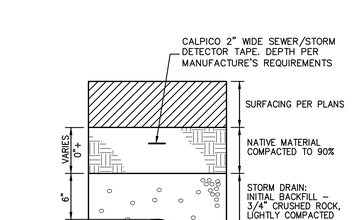


NOTE: WHEN PLACING COVER, ORIENT SLOTS PERPENDICULAR TO DOMINANT DIRECTION OF TRAVEL (11B–302.3)

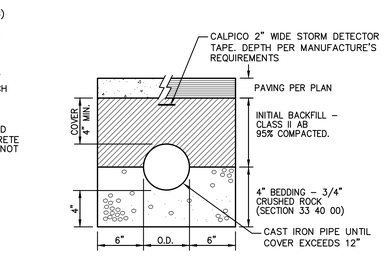
1 CS502 DROP INLET
NO SCALE



2 CS502 CLEANOUT
PER CPC 2019 PRIVATE SEWAGE SYSTEMS ONLY — NO SCALE



3 CS502 STORM/SEWER TRENCH
FOR PRIVATE SD FACILITIES ONLY. PUBLIC SD FACILITIES SHALL FOLLOW COUNTY STANDARD 9–1. — NO SCALE



4 CS502 SHALLOW STORM TRENCH
4" AND 6" STORM DRAINS ONLY. — NO SCALE

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EL DORADO HILLS, CA 95762 | (916) 985-1870
REGISTERED PROFESSIONAL ENGINEER ANTHONY J TASSIANO NO. C74628 STATE OF CALIFORNIA
12/7/2023

SEAL

PROJECT
MC CLATCHY HIGH SCHOOL ATHLETIC FIELD RENOVATION

3066 FREEPORT BLVD.
SACRAMENTO, CA 95818

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

3500 FLORIN ROAD, SACRAMENTO, CA 95823

ISSUED

MARK	DATE	DESCRIPTION
-	8/18/2023	DSA SUBMITTAL
	12/7/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

LIONAKIS PROJECT NO:	023040
DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	02-121610
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AGENCY

TITLE
SITE DETAILS

SHEET
CS502

FILE: I:\23-087\CIVIL\DWG\23-087 - 114 - CS501-CS504.DWG
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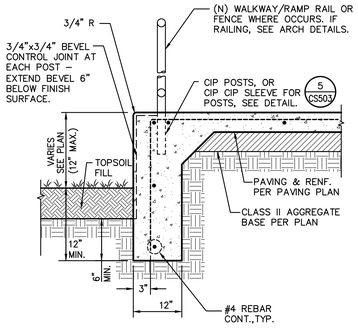
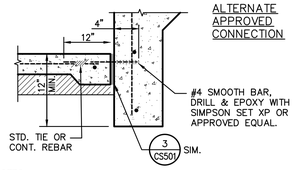
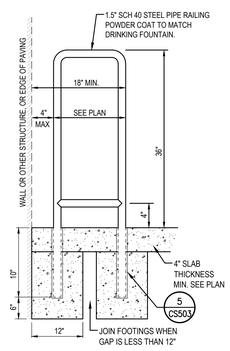


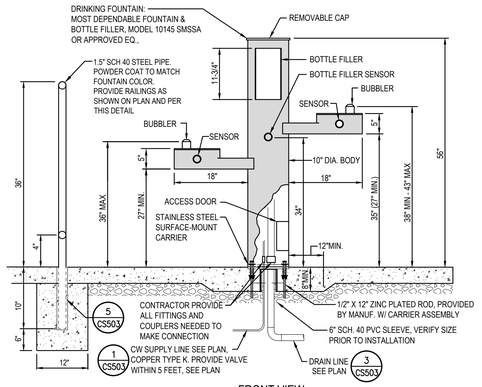


ALTERNATE APPROVED CONNECTION

NOTES:
1. CONCRETE WALK JOINTS SHALL EXTEND OVER AND DOWN THE FACE OF SLAB EDGE.

13 CS503 RETAINING CURB EDGE WITH FENCE/RAILING — NO SCALE

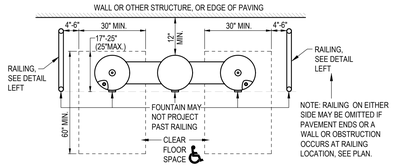




FRONT VIEW

OPTIONAL ACCESSORIES TO PROVIDE:

SIDE JUG FILLER (NOT SAME AS BOTTLE FILLER)	YES ☐	NO ☒
FOOTWASH	YES ☐	NO ☒
WATER FILTER	YES ☐	NO ☒
PLAQUE	YES ☐	NO ☒
PET FOUNTAIN	YES ☐	NO ☒
RECESSED LOCKING HOSE BIB	YES ☒	NO ☐
BOWL SAND STRAINER	YES ☐	NO ☒
SEASONAL COVER	YES ☐	NO ☒
SIDE HOSE BIB	YES ☐	NO ☒
CUT OFF VALVE	YES ☐	NO ☒
FREEZE VALVE	YES ☐	NO ☒
SAFE STREAM BUBBLE HEAD	YES ☐	NO ☒
TEMPLATE 10 NS CARRIER	YES ☒	NO ☐



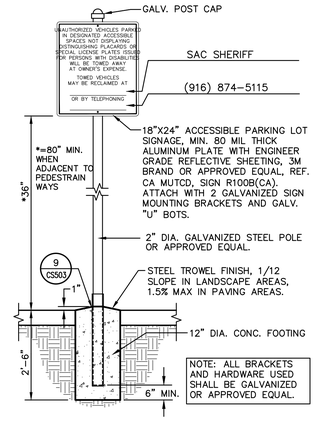
TOP VIEW

NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. ALL ANCHORAGE MATERIALS TO BE APPROVED BY THE ENGINEER IF DEVIATING FROM THIS PLAN.

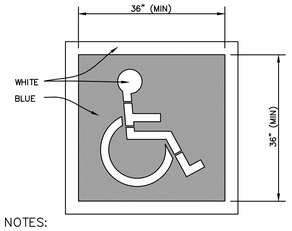
BASIS OF DESIGN MODEL: MDF 10145 SMSSFA COLOR: BLUE
NOTE: EQUAL ALTERNATIVES TO BE REVIEW FOR APPROVAL

10 CS503 HI-LO WITH BOTTLE FILLER — NO SCALE

DRINKING FOUNTAIN

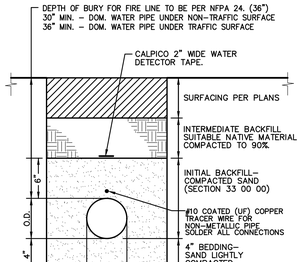


6 CS503 PARKING AREA SIGN (CALIFORNIA ONLY) — NO SCALE

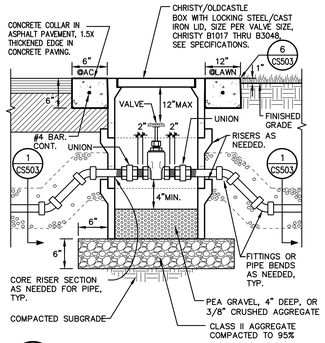


NOTES:
1. THIS PARKING SYMBOL IS ALSO KNOWN AS THE INTERNATIONAL SYMBOL OF ACCESSIBILITY (ISA).

7 CS503 ACCESSIBLE STRIPING — NO SCALE

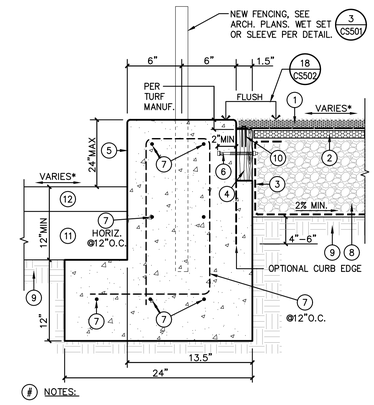


1 CS503 WATER TRENCH — NO SCALE



3 CS503 WATER VALVE 1/2" TO 3" PIPE ONLY PRIVATE WATER LINES ONLY — NO SCALE

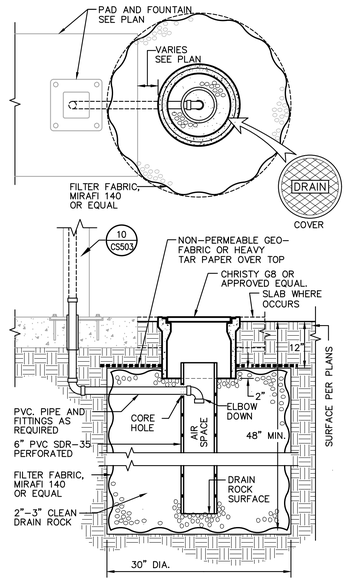
NOTES:
1. ALIGN ALL BOXES PARALLEL TO EACH OTHER AND ALSO TO ADJOINING PAVING, WALLS, FENCES, BUILDINGS OR OTHER LINEAR IMPROVEMENTS.
2. VALVE BOXES SHALL BE TRAFFIC RATED WITH STEEL LOCKING PLATE LID. PROVIDE MARKINGS AS REQUIRED. CHRISTY B1017 THRU B1730 OR APPROVED EQUAL.
3. PROVIDE AT LEAST 1 REBAR AROUND EACH BOX AND AT 18" O.C.E.W. IN WIDER CONCRETE AREAS, OR PER WALK DETAILS AND PAVING PLAN.
4. LIDS TO BE PERMANANTLY MARKED WITH VALVE # AND STATING "IRRIGATION – NON–POTABLE" PER SPEC.



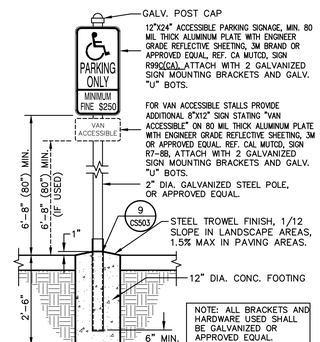
(#) NOTES:
1. SYNTHETIC TURF & BALLAST/INFILL PER SPEC.
2. SYNTHETIC UNDERLAYMENT PAD (SHOCK PAD)
3. GEO–FABRIC, MIRAFI 140 N OR EQUAL.
4. 2x4 OR 2x6 NAILER, SYNTHETIC, PER SPECS.
5. CONCRETE WALL, 3000 PSI MIN. (28 DAY), PER SPECS.
6. 1/2"x5" ANCHOR BOLT W/ NYLON NUT AND WIDE FLANGE WASHER @ 24" O.C., WET SET IN FORM WITH NAILER.
7. REBAR, #4 GRADE 60, TYP. OF 2.
8. BASE AND/OR DRAINAGE AGGREGATE LAYER, PER PAVING PLAN, AND PER SPECS.
9. COMPACTED SUBGRADE PER SPECIFICATIONS.
10. TURF STAPLES & SPACING PER TURF MANUFACTURER SPECS.
11. SURFACING PER PLAN, SEE PAVING PLAN & SPECS.
12. AGGREGATE BASE, SEE PAVING PLAN & SPECS (OMIT @ LNDSCP)

*=SLOPE MAY VARY, SEE GRADING PLAN
ASPHALT 1.0% MIN. – 1.8% MAX (SEE PLAN)
SYN. TURF 0.4% MIN. – 1.0% MAX (SEE PLAN)

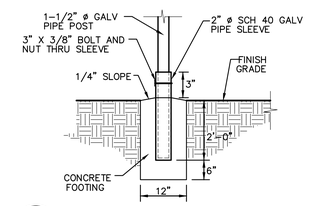
12 CS503 RAISED SYNTHETIC TURF CURB/NAILER — NO SCALE



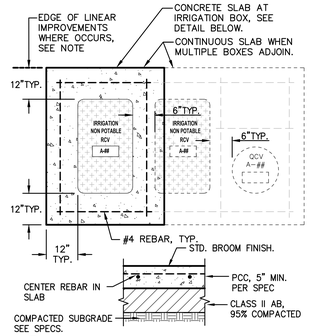
11 CS503 FOUNTAIN DRYWELL — NO SCALE



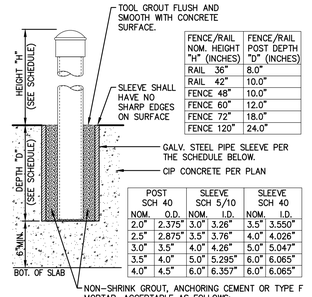
8 CS503 PARKING SIGNAGE ACCESSIBLE STALLS (CALIFORNIA ONLY) — NO SCALE



9 CS503 SIGN SLEEVE — NO SCALE



4 CS503 IRRIGATION VALVE BOX APRON — NO SCALE



FENCE/RAIL NOM. HEIGHT "H" (INCHES)	FENCE/RAIL POST DEPTH "D" (INCHES)
RAIL 36"	8.0"
RAIL 42"	10.0"
FENCE 48"	10.0"
FENCE 60"	12.0"
FENCE 72"	18.0"
FENCE 120"	24.0"

POST SCH 40 NOM.	POST SCH 40 O.D.	SLEEVE SCH 5/10 NOM.	SLEEVE SCH 5/10 I.D.	SLEEVE SCH 40 NOM.	SLEEVE SCH 40 I.D.
2.0"	2.375"	3.0"	3.26"	3.5"	3.550"
2.5"	2.875"	3.5"	3.76"	4.0"	4.026"
3.0"	3.5"	4.0"	4.26"	5.0"	5.047"
3.5"	4.0"	5.0"	5.295"	6.0"	6.065"
4.0"	4.5"	6.0"	6.357"	6.0"	6.065"

5 CS503 POST SLEEVE DETAIL — NO SCALE

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REGISTERED PROFESSIONAL ENGINEER ANTHONY J TASSANO NO. C74698 STATE OF CALIFORNIA 12/07/2023

SEAL

PROJECT
MC CLATCHY HIGH SCHOOL ATHLETIC FIELD RENOVATION
3066 FREEPORT BLVD.
SACRAMENTO, CA 95818

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
3500 FLORIN ROAD, SACRAMENTO, CA 95823

ISSUED

MARK	DATE	DESCRIPTION
-	8/18/2023	DSA SUBMITTAL
	12/7/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

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DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	02-121610
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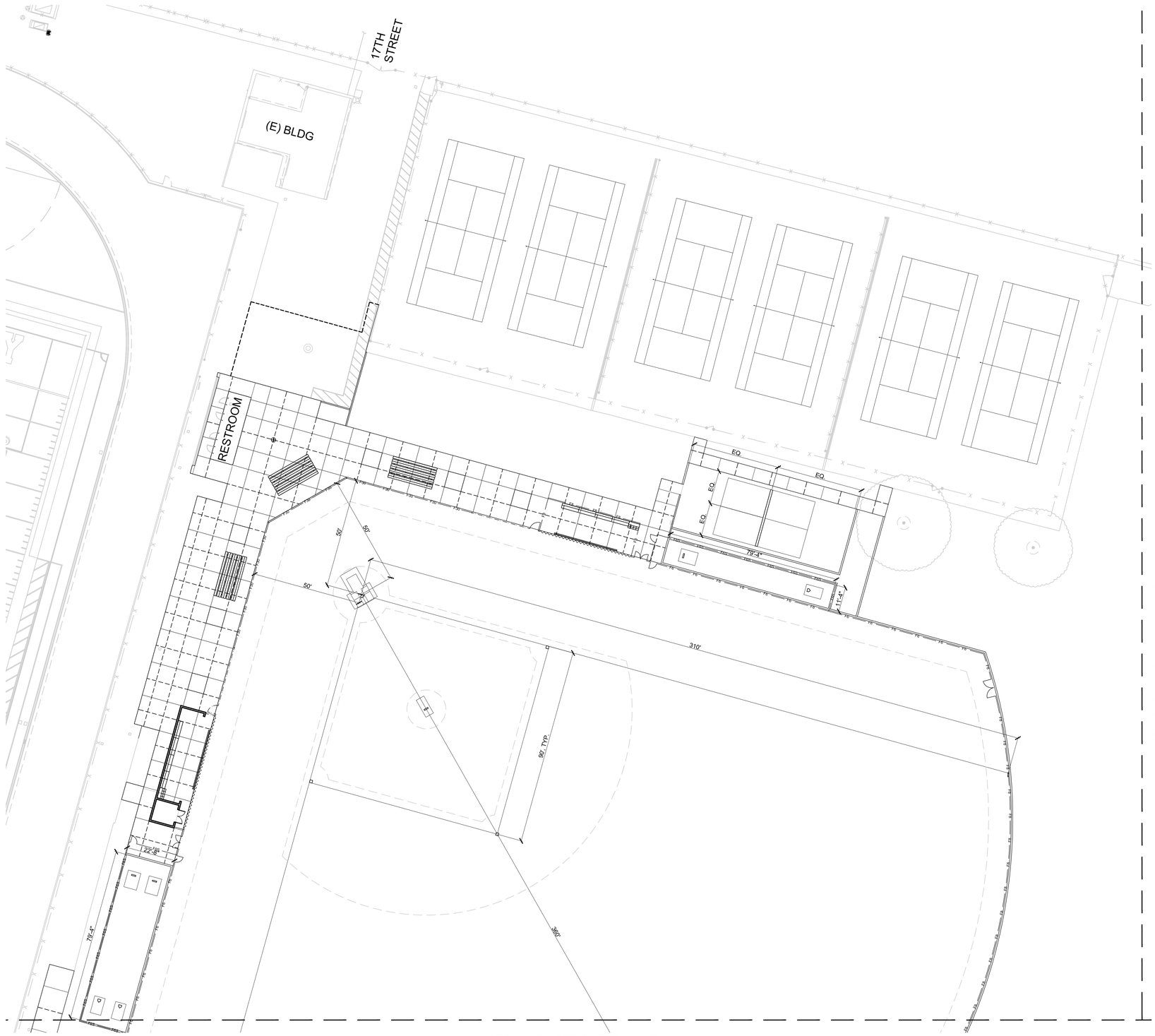
AGENCY

TITLE
SITE DETAILS

SHEET
CS503



MATCHLINE - SEE SHEET LS10C

LAYOUT NOTES

1. THESE NOTES ARE FOR GENERAL REFERENCE IN CONJUNCTION WITH AND AS A SUPPLEMENT TO THE WRITTEN SPECIFICATIONS, DETAILS, ADDENDA AND CHANGE ORDERS ASSOCIATED WITH THE CONTRACT DOCUMENTS.
2. DRAWINGS SHALL NOT BE SCALED. WRITTEN DIMENSIONS TAKE PRECEDENCE. IF CONTRACTOR FINDS A DISCREPANCY WITH WRITTEN DIMENSIONS, NOTIFY OWNER'S REPRESENTATIVE BEFORE PROCEEDING WITH WORK.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXISTENCE OF AND LOCATIONS OF EXISTING AND PROPOSED UNDERGROUND SERVICES AND IMPROVEMENTS WHICH MAY CONFLICT WITH THE WORK. CONTACT THE OWNER'S REPRESENTATIVE AND UNDERGROUND SERVICE ALERT (USA) AT (800) 642-2444 PRIOR TO INITIATING CONSTRUCTION FOR ASSISTANCE.
4. COORDINATE CONSTRUCTION ELEMENTS PRIOR TO INSTALLATION. VERIFY WALLS, CURBS, FENCES, ETC. AND CRITICAL DIMENSIONS, REFERENCE AND COORDINATE POINT LOCATIONS, AND CONSTRUCTION CONDITIONS PRIOR TO INITIATING CONSTRUCTION. NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY SHOULD DISCREPANCIES ARISE.
5. CONTRACTOR SHALL LAYOUT PROJECT ELEMENTS IN FIELD AS SHOWN ON THESE PLANS AND HAVE THEM APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.
6. MINOR ADJUSTMENTS MADE TO ACCOMMODATE EXISTING SITE CONDITIONS SHALL MAINTAIN THE OVERALL DESIGN LAYOUT. ADJUSTMENTS SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.
7. NEW PAVED SURFACES SHALL CONFORM TO EXISTING PAVED SURFACES, FLUSH AND SMOOTH. CONTRACTOR SHALL CONSTRUCT SMOOTH TRANSITIONS OF PAVING AND WALKS WHILE MAINTAINING POSITIVE DRAINAGE.
8. COORDINATE SLEEVING AND UTILITY LOCATIONS AS SHOWN ON THE PLANS AND DETAILS CONTAINED WITHIN THESE CONTRACT DOCUMENTS AND THE REQUIREMENTS OF NFPA 24, SECTION 8.1, "MINIMUM DEPTH OF COVER" (36 INCHES) FOR PIPE BENEATH FIRE LANE ACCESS ROUTES.
9. CONDITIONS NOT SPECIFICALLY NOTED OR DETAILED ON THESE PLANS SHALL BE CALLED TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE FOR REVIEW PRIOR TO IMPLEMENTATION.
10. THE CONTRACTOR SHALL BE RESPONSIBLE UNDER THIS CONTRACT FOR REPAIRING OR REPLACING, AT THEIR OWN EXPENSE, ANY STRUCTURES, FENCES, WALLS, PLANT MATERIAL OR TREES DAMAGED OR DESTROYED, BOTH ON THIS PROPERTY OR THOSE PROPERTIES ADJACENT TO THIS SITE. THE DAMAGED ITEM(S) WILL BE RESTORED TO THEIR ORIGINAL CONDITION OR REPLACED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
11. ANGLES FOR LAYOUT TO BE 90 DEGREES UNLESS OTHERWISE NOTED.

LAYOUT LEGEND

SYMBOL	DESCRIPTION OF SYMBOL
ALN	ALIGN
BCR	BEGINNING OF CURVE RETURN
BOC	BACK OF CURB
BS	BOTTOM OF STAIRS / STEPS
BOW	BACK OF WALL
℄	CENTERLINE
CLR	CLEAR
DIA	DIAMETER
ECR	END OF CURVE RETURN
ER	END OF RADIUS
EJ	EXPANSION JOINT, TYPICAL
EQ	EQUAL
EW	EACH WAY
FOB	FACE OF BUILDING
FOC	FACE OF CURB
FOW	FACE OF WALL
MAX	MAXIMUM
MIN	MINIMUM
OC	ON CENTER
PA	PLANTING AREA
POB	POINT OF BEGINNING
PT	POINT OF TANGENCY
R	RADIUS
SJ	SCORE JOINT, TYPICAL
TS	TOP OF STAIRS / STEPS
TYP	TYPICAL

NORTH

SCALE: 1" = 20'-0"

0' 10' 20' 40'

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SEAL

LICENSED LANDSCAPE ARCHITECT
MELISSA J. NOGUES
NO. 3676
05/31/2025
Renewal Date
12/07/2023
Date
STATE OF CALIFORNIA

PROJECT

McCLATCHY HIGH SCHOOL
ATHLETIC FIELDS REPLACEMENT

3066 FREEPORT BLVD.
SACRAMENTO, CA 95818

CLIENT

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

5735 47TH AVENUE, SACRAMENTO, CA 95824

ISSUED

MARK	DATE	DESCRIPTION
	08/14/2023	DSA Initial Submittal
	12/7/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

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TITLE

LAYOUT PLAN

SHEET

LS10A

ANLA PROJECT NO: 2319

IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY

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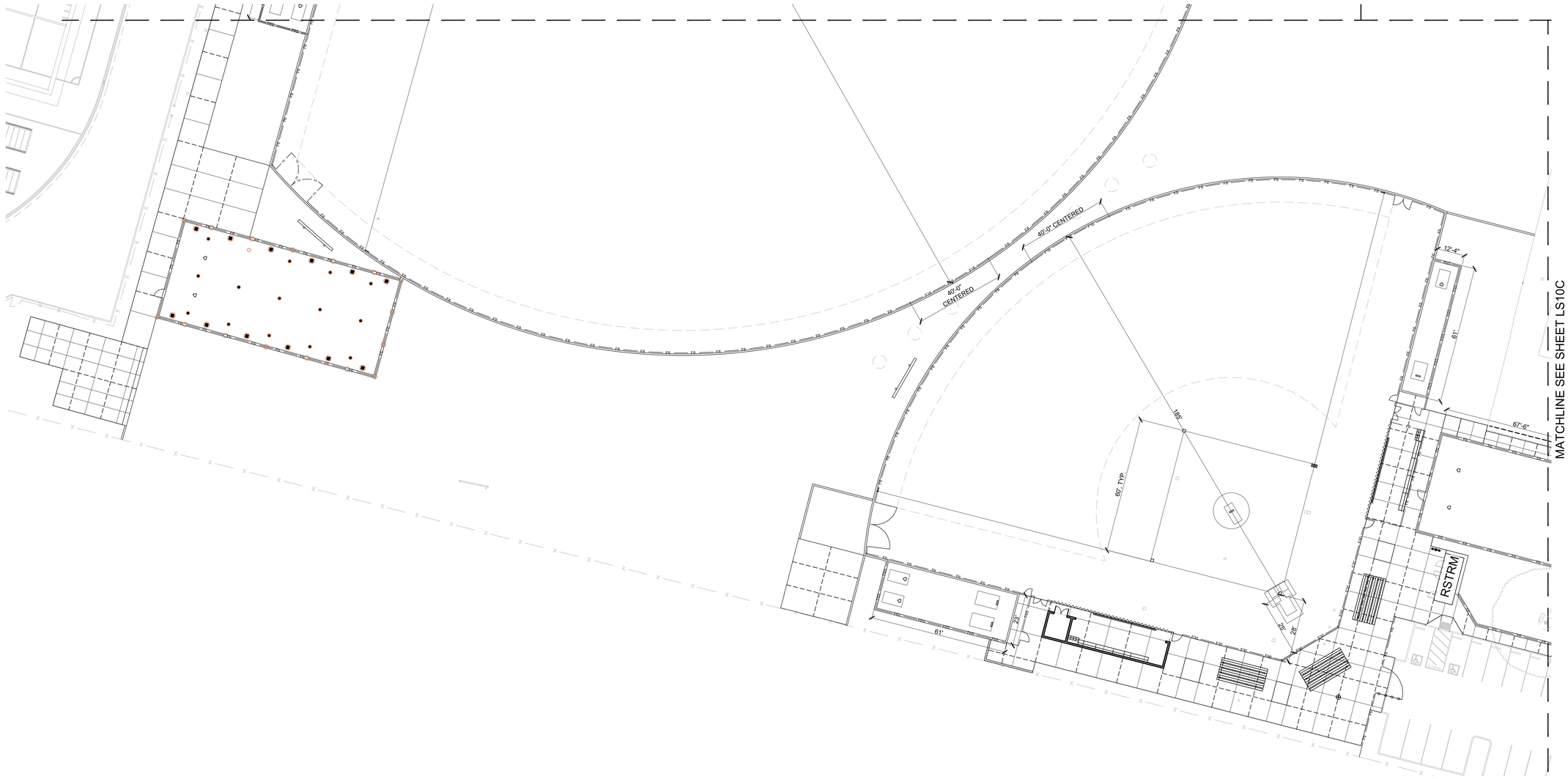
10/17/2018 10:06:50 AM

SEE SHEET LS10A FOR LAYOUT LEGEND & NOTES

MATCHLINE - SEE SHEET LS10A



MATCHLINE SEE SHEET LS10C

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SEAL

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TITLE

LAYOUT PLAN

NORTH

SCALE: 1" = 20'-0"

0' 10' 20' 40'

SHEET

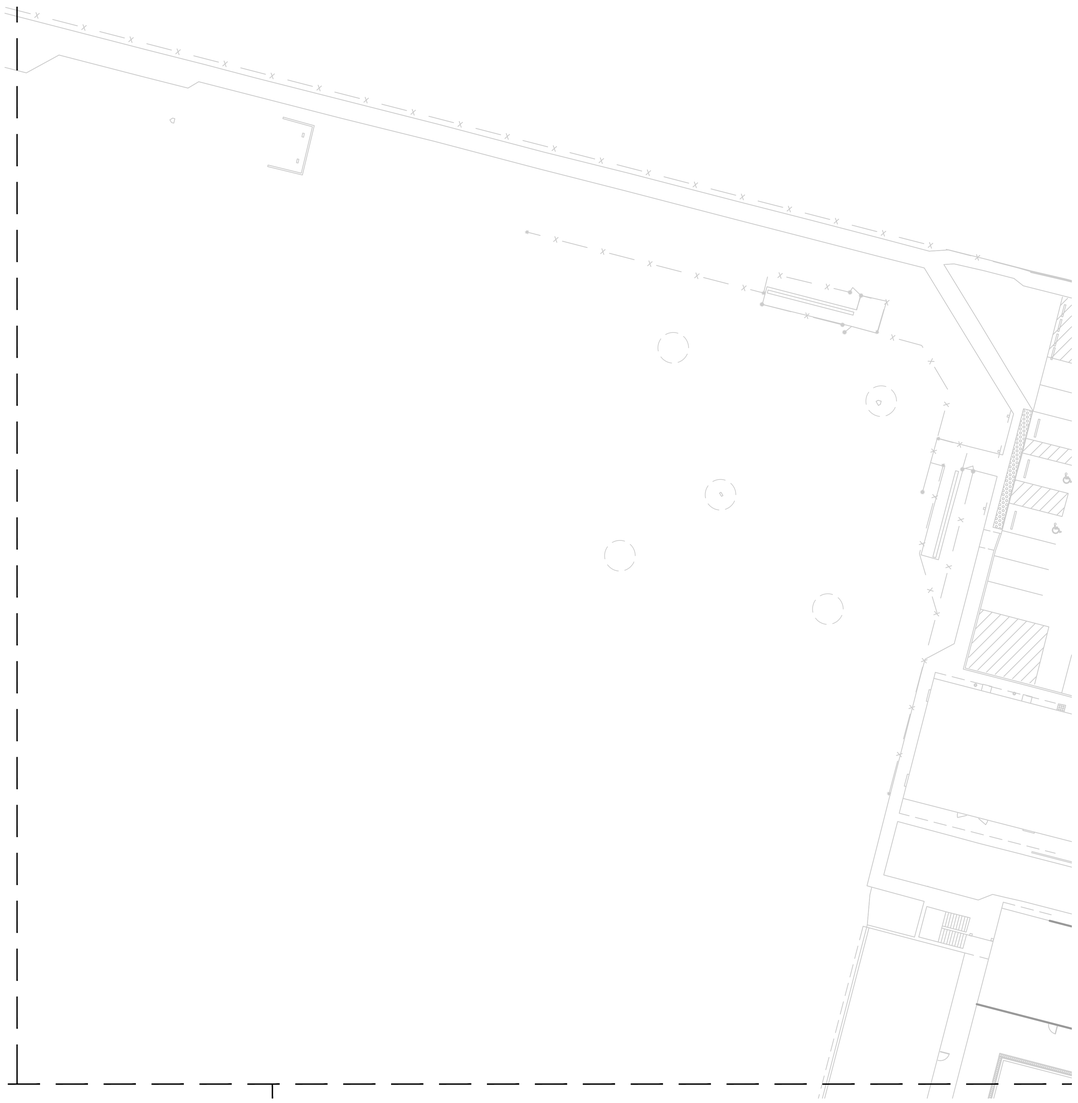
LS10B

ANLA PROJECT NO: 2319

SEE SHEET LS10A FOR LAYOUT LEGEND & NOTES

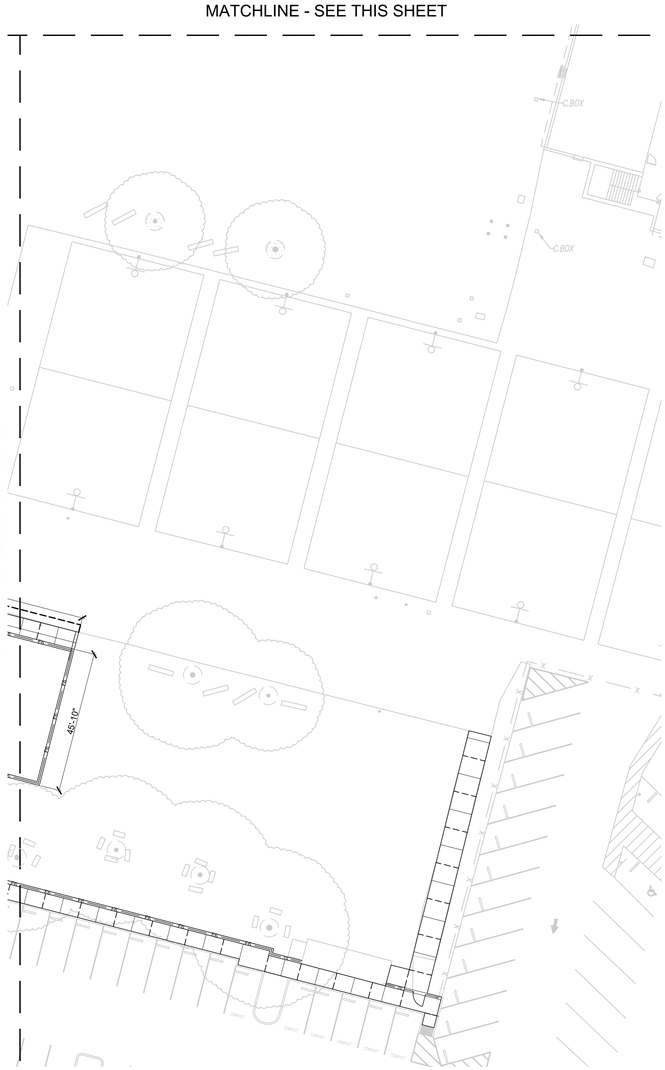
MATCHLINE SEE SHEET LS10A

MATCHLINE - SEE THIS SHEET



MATCHLINE - SEE THIS SHEET

MATCHLINE SEE SHEET LS10B



NORTH

SCALE: 1" = 20'-0"

0' 10' 20' 40'

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SEAL

LICENSED LANDSCAPE ARCHITECT
MELISSA J. NOGUES
No. 3676
Signature
05/31/2025
Renewal Date
12/07/2023
Date
STATE OF CALIFORNIA

PROJECT

McCLATCHY HIGH SCHOOL
ATHLETIC FIELDS REPLACEMENT

3066 FREEPORT BLVD.
SACRAMENTO, CA 95818

CLIENT

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

5735 47TH AVENUE, SACRAMENTO, CA 95824

ISSUED

MARK	DATE	DESCRIPTION
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	12/7/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

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CLIENT PROJECT NO: 02-121610
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TITLE

LAYOUT PLAN

SHEET

LS10C

ANLA PROJECT NO: 2319

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0 1/4" 1/2" 1"

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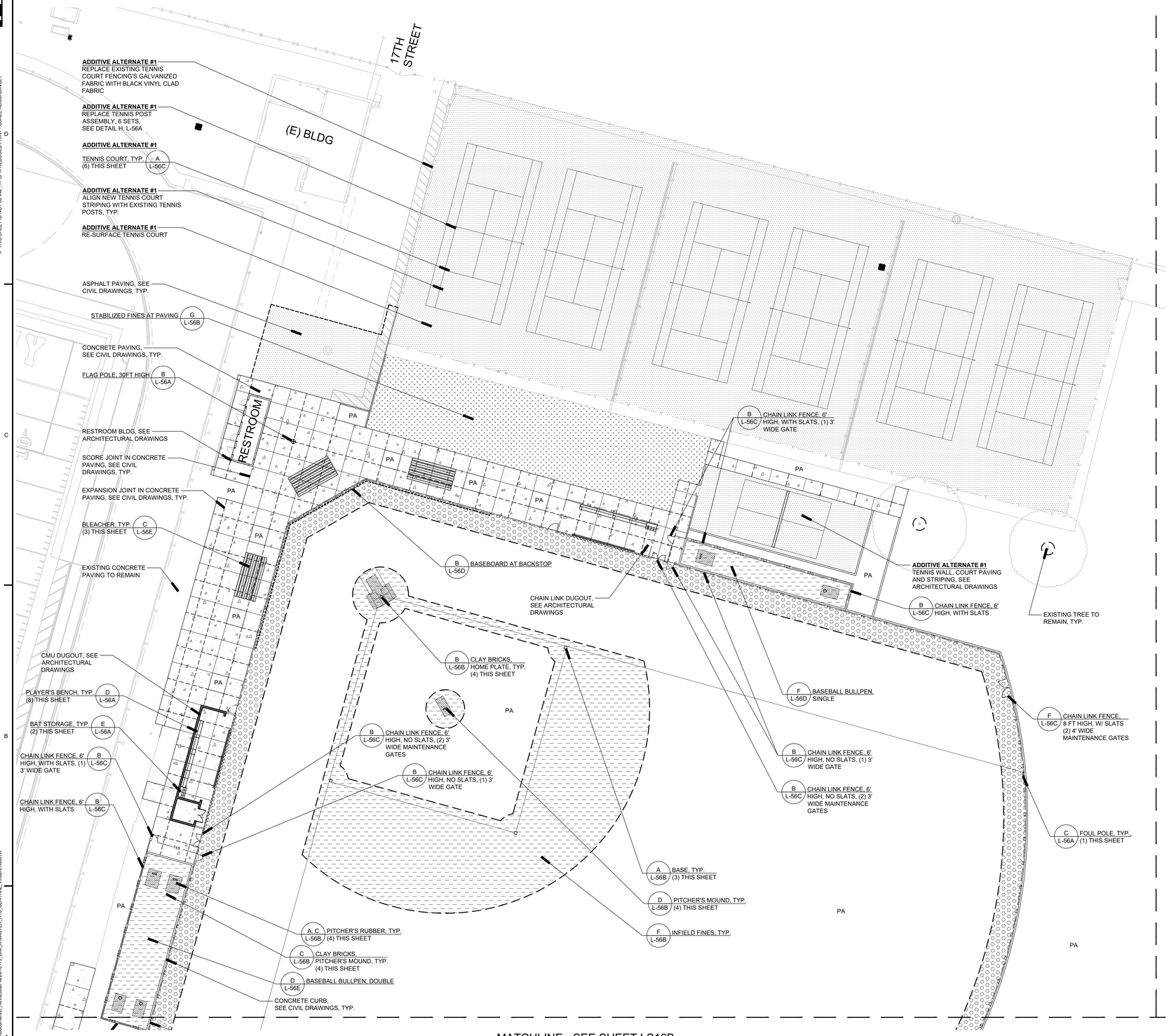

MATCHLINE - SEE SHEET LS16B

MATERIAL AND DETAIL REFERENCE NOTES

1. THESE NOTES ARE FOR GENERAL REFERENCE IN CONJUNCTION WITH AND AS A SUPPLEMENT TO THE WRITTEN SPECIFICATIONS, DETAILS, ADDENDA AND CHANGE ORDERS ASSOCIATED WITH THE CONTRACT DOCUMENTS.
2. CONTRACTOR SHALL BECOME FAMILIAR WITH THE LOCATION OF EXISTING AND PROPOSED UNDERGROUND SERVICES. CONTACT UNDERGROUND SERVICE ALERT (USA) AT (800) 642-2444 PRIOR TO BEGINNING WORK. CONTACT OWNER'S REPRESENTATIVE SHOULD ANY CONFLICTS ARISE.
3. SCORE AND EXPANSION JOINTS SHALL BE LOCATED AS INDICATED ON THIS PLAN. CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS WHEN NECESSARY TO ALIGN SCORE AND EXPANSION JOINTS WITH RELATIVE ELEMENTS AS SHOWN ON THE PLAN.
4. DETAIL CALLOUTS ON PLAN ARE PROVIDED FOR CONVENIENCE AND GENERAL REFERENCE ONLY. CONTRACTOR SHALL PROVIDE QUANTITY OF PRODUCTS, ELEMENTS AND MATERIALS AS SYMBOLIZED ON PLANS, ASSOCIATED DETAILS, AND SPECIFICATIONS.
5. FOR EACH CONCRETE COLOR AND FINISH SPECIFIED, CONTRACTOR SHALL POUR A 2'x2' SAMPLE FOR APPROVAL BY OWNER'S REPRESENTATIVE PRIOR TO INSTALLING CONCRETE PAVING.
6. LANDSCAPE ARCHITECT IS NOT RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION. IF WORK WITHIN THIS SCOPE REQUIRES REMOVAL, RELOCATION, OR DEMOLITION OF EXISTING TO REMAIN IMPROVEMENTS, BOTH SURFACE AND KNOWN SUBSURFACE CONDITIONS, CONTRACTOR SHALL INCLUDE IN THE BID SUFFICIENT LABOR AND MATERIALS TO RESTORE EXISTING TO REMAIN IMPROVEMENTS IN KIND AND AS ACCEPTABLE TO OWNER'S REPRESENTATIVE.
7. CONTRACTOR SHALL COORDINATE ROUGH GRADING AND FINE GRADING TO ENSURE EXISTING SUITABLE TOPSOIL IS REMOVED, STOCKPILED AND REINSTALLED INTO ALL PROPOSED LANDSCAPE AREAS PER LANDSCAPE SPECIFICATION SECTION 32 90 00. IN THE EVENT THERE IS NOT ENOUGH EXISTING TOPSOIL, OR NO PLACE TO STOCKPILE TOPSOIL, CONTRACTOR SHALL IMPORT AND INSTALL TOPSOIL PER LANDSCAPE SPECIFICATION SECTION 32 90 00.
8. THE CONTRACTOR SHALL BE RESPONSIBLE UNDER THIS CONTRACT FOR REPAIRING OR REPLACING, AT THEIR OWN EXPENSE, SURFACE AND SUBSURFACE SITE FEATURES TO REMAIN, INCLUDING BUT NOT LIMITED TO ANY STRUCTURES, FENCES, WALLS, PAVING SURFACES, PLANT MATERIAL AND/OR TREES DAMAGED OR DESTROYED, BOTH ON THIS PROPERTY OR THOSE PROPERTIES ADJACENT TO THIS SITE. THE DAMAGED ITEM(S) WILL BE RESTORED TO THEIR ORIGINAL CONDITION OR REPLACED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
9. LANDSCAPE ARCHITECT IS NOT RESPONSIBLE FOR ROOFTOP GARDEN LINER, BUILDING WATERPROOFING, DRAINAGE FROM ROOF, WEIGHT LOAD BEARING ISSUES, MAINTENANCE, SAFETY, AND MEANS AND/OR METHODS OF INSTALLATION.
10. CONTRACTOR SHALL ADJUST EXISTING UTILITY BOXES TO BE FLUSH WITH PROPOSED GRADES.
11. REFER TO THE FOLLOWING SPECIFICATION SECTIONS:

05 52 00	METAL RAILINGS
12 93 00	SITE FURNISHINGS
31 13 16	TREE PROTECTION
32 12 33.1	SPORT COURT SURFACING
32 14 40	CRUSHED STONE SURFACING
32 31 13	CHAIN LINK FENCES
32 18 13	SYNTHETIC GRASS SURFACING

12. REFER TO CONSTRUCTION DETAILS ON SHEETS L-56A THROUGH L-56E.

MATERIALS & DETAIL REFERENCE LEGEND

SYMBOL	DESCRIPTION	DETAIL
	CONCRETE PAVING, SEE CIVIL DRAWINGS, TYP.	-
	ASPHALT PAVING, SEE CIVIL DRAWINGS, TYP.	-
	SAW CUT IN ASPHALT PAVING, SEE CIVIL DRAWINGS, TYP.	-
F6 / F6S	CHAIN LINK FENCE, 6' HIGH CHAIN LINK FENCE, 6' HIGH, WITH SLATS	B, L-56C B, L-56C
F8	CHAIN LINK FENCE, 8' HIGH	F, L-56C
F12	CHAIN LINK FENCE, 12' HIGH	D, L-56C
F16	CHAIN LINK FENCE, 16' HIGH, WITH SLATS	A, L-56D
F30	CHAIN LINK FENCE, 30' HIGH	A, L-56E
	22' PROTECTIVE NETTING OVER 8' TALL CHAIN LINK FENCE	D, E, L-56F
	22' PROTECTIVE NETTING OVER DUGOUT	D, E, L-56F
	PIPE RAIL GATE	A, L-56A
	GUARD RAIL SYSTEM	F, L-56F
	BASES	A, L-56B I, L-56A
	PITCHER'S RUBBER, BASEBALL, SOFTBALL	A, L-56B I, L-56A
	HOME PLATE	A, L-56B I, L-56A
	CLAY BRICKS	B, C, E, L-56B
	FOUL POLE	C, L-56A
	FLAG POLE	B, L-56A
	SYNTHETIC TURF	H, L-56B
	INFIELD FINES	F, L-56B
	WARNING TRACK FINES	I, L-56B
	STABILIZED FINES AT PAVING	G, L-56B
PA	PLANTING AREA, SEE PLANTING AND IRRIGATION DRAWINGS	-
	8' PLAYER'S BENCH	D, L-56A
	BLEACHERS	C, L-56E
	BAT STORAGE	E, L-56A

MATCHLINE - SEE SHEET LS16C

NORTH

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TITLE
MATERIALS AND DETAIL REFERENCE PLAN

SHEET
LS16A

ANLA PROJECT NO: 2319

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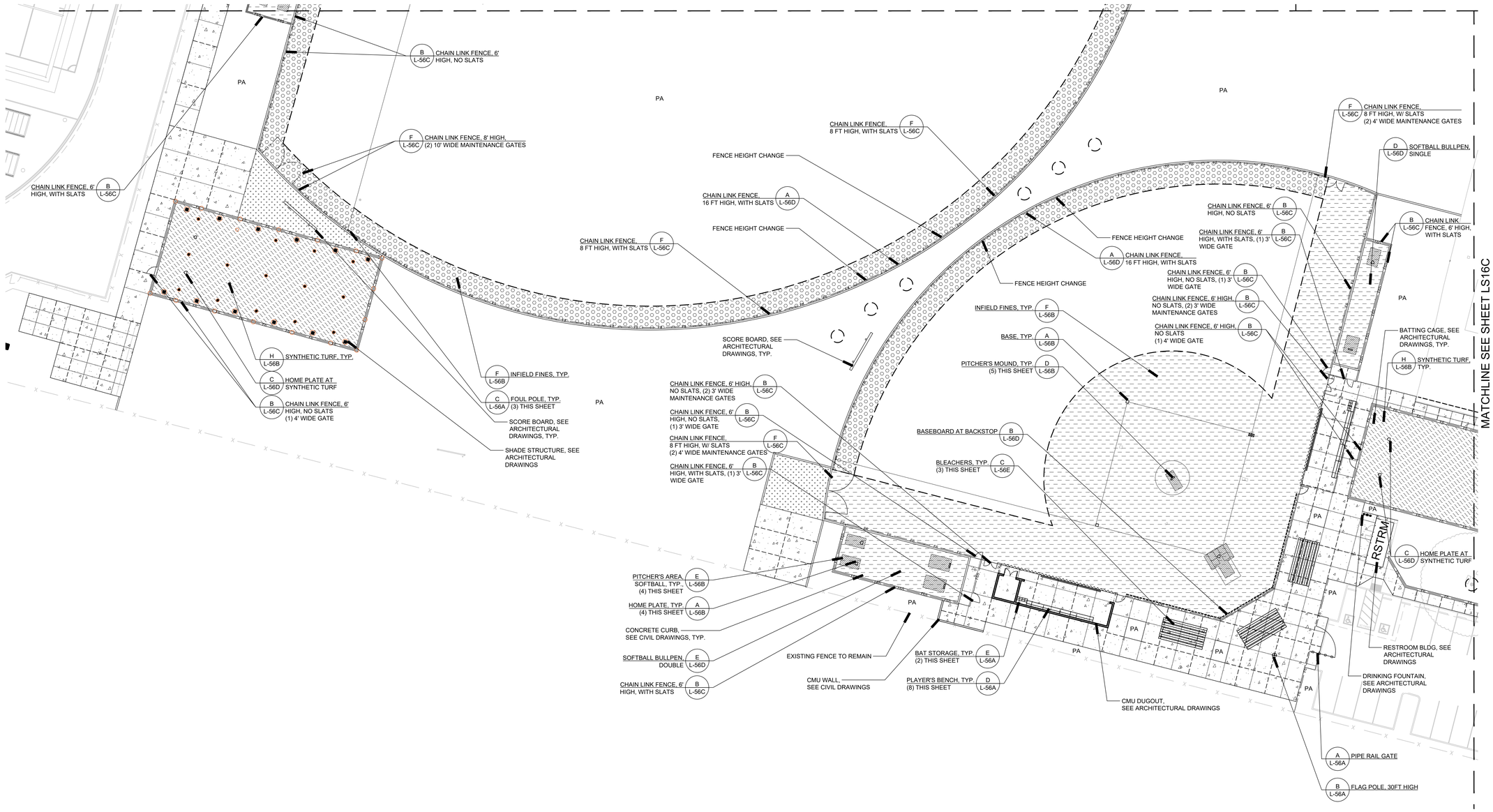
SEE SHEET LS16A FOR MATERIALS AND DETAIL REFERENCE LEGEND & NOTES

MATCHLINE - SEE SHEET LS16A



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MATERIALS AND DETAIL REFERENCE PLAN

SHEET

LS16B

ANLA PROJECT NO: 2319

SEE SHEET LS16A FOR MATERIALS AND
DETAIL REFERENCE LEGEND & NOTES

MATCHLINE SEE SHEET LS16A

INFIELD FINES, TYP. F / L-56B

MATCHLINE - SEE THIS SHEET

MATCHLINE - SEE THIS SHEET

MATCHLINE SEE SHEET LS16B

H / L-56B CONCRETE CURB AT SYNTHETIC TURF, TYP.

H / L-56B SYNTHETIC TURF, TYP.

SHADE STRUCTURE, SEE ARCHITECTURAL DRAWINGS

EXISTING TREE TO REMAIN, TYP.

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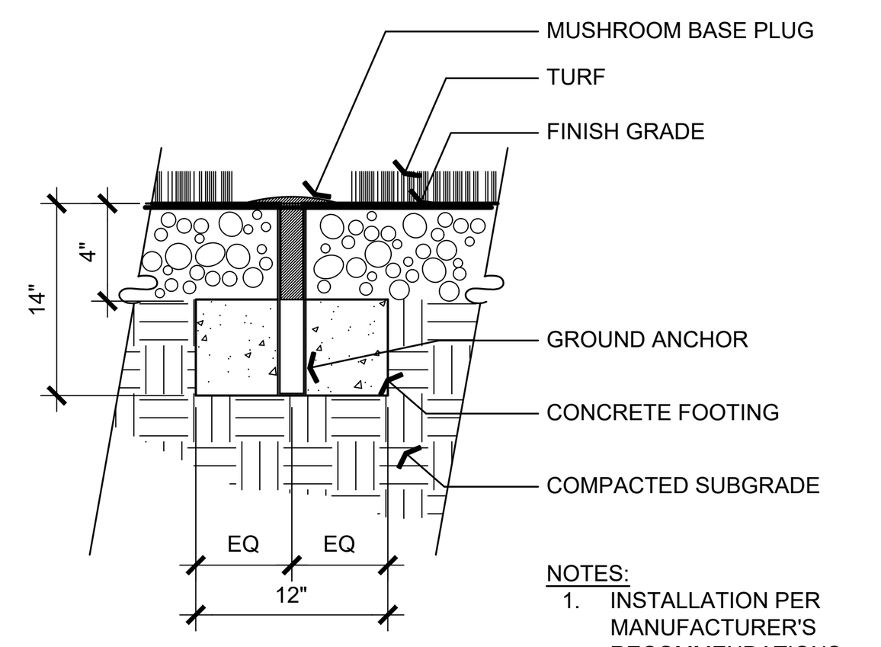
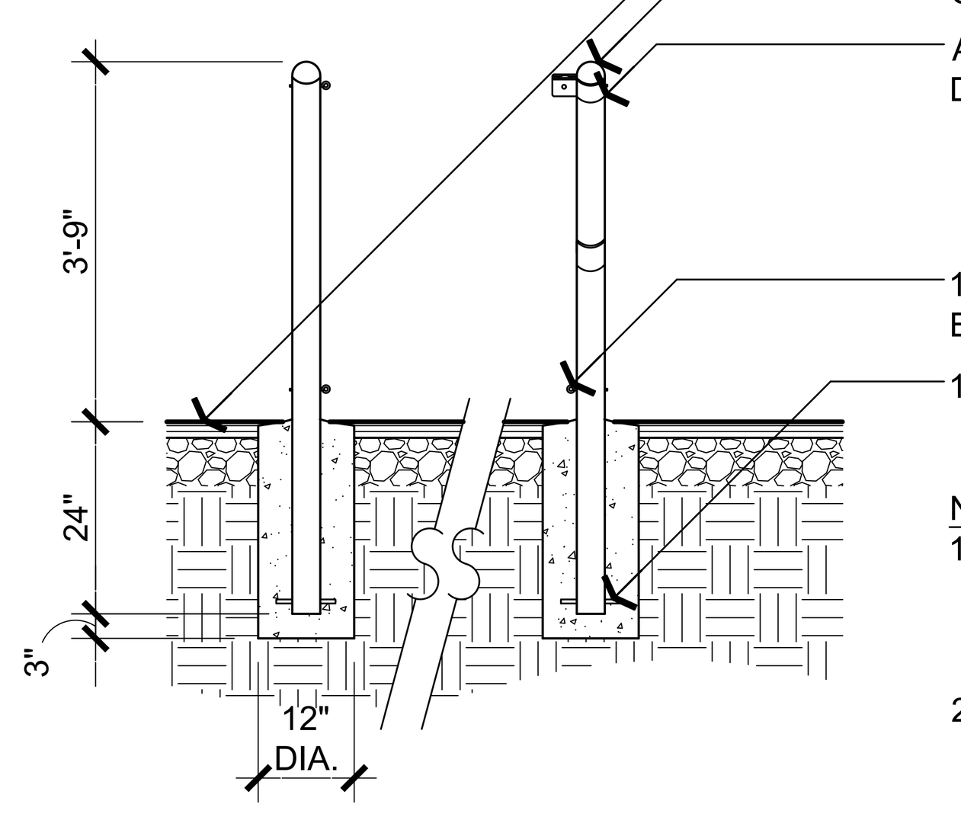


NOTES:
1. INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS.

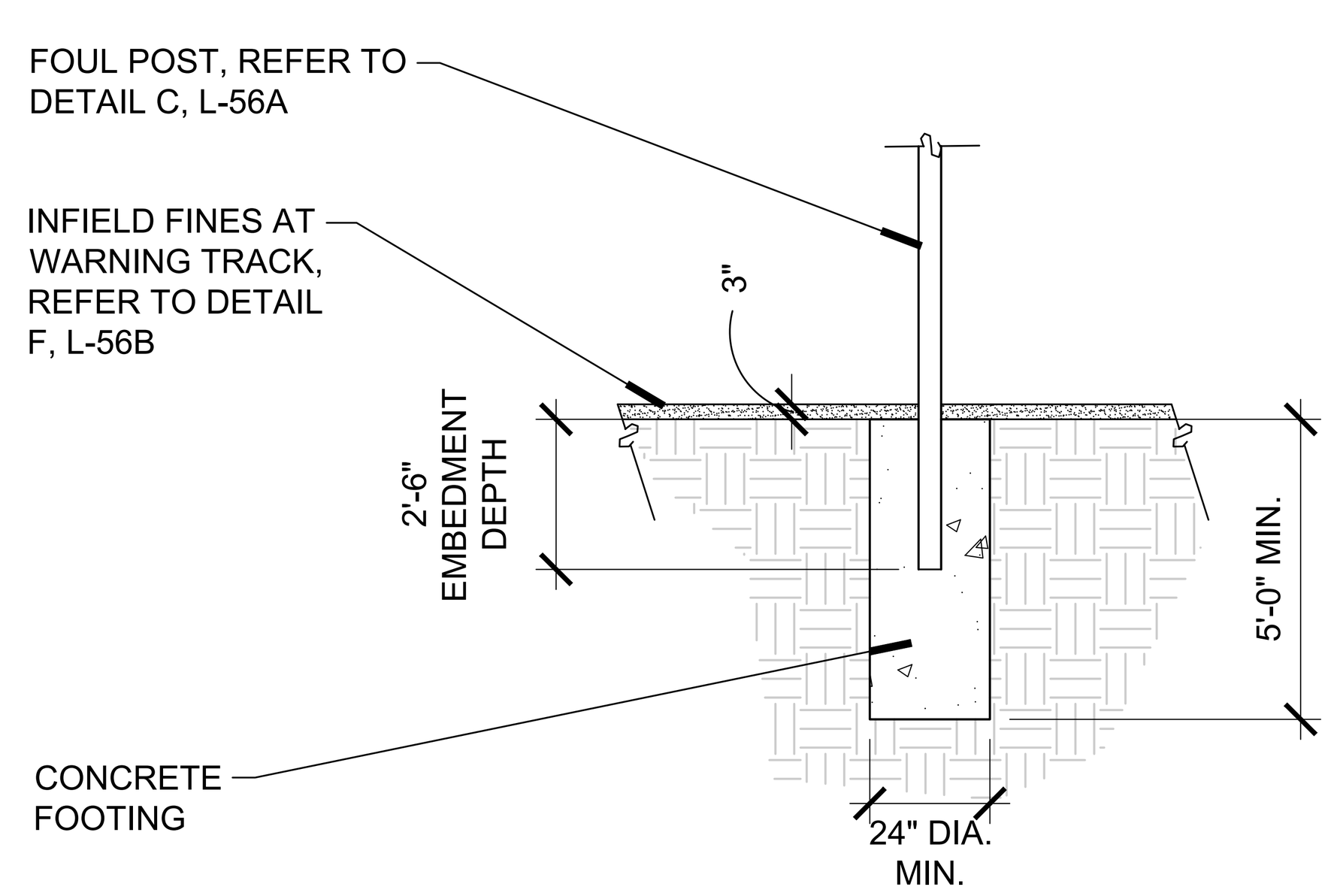
NOTES:
1. REFER TO DETAIL A, L-56B FOR BASE LAYOUT.

I BASE ANCHORING SCALE: NTS



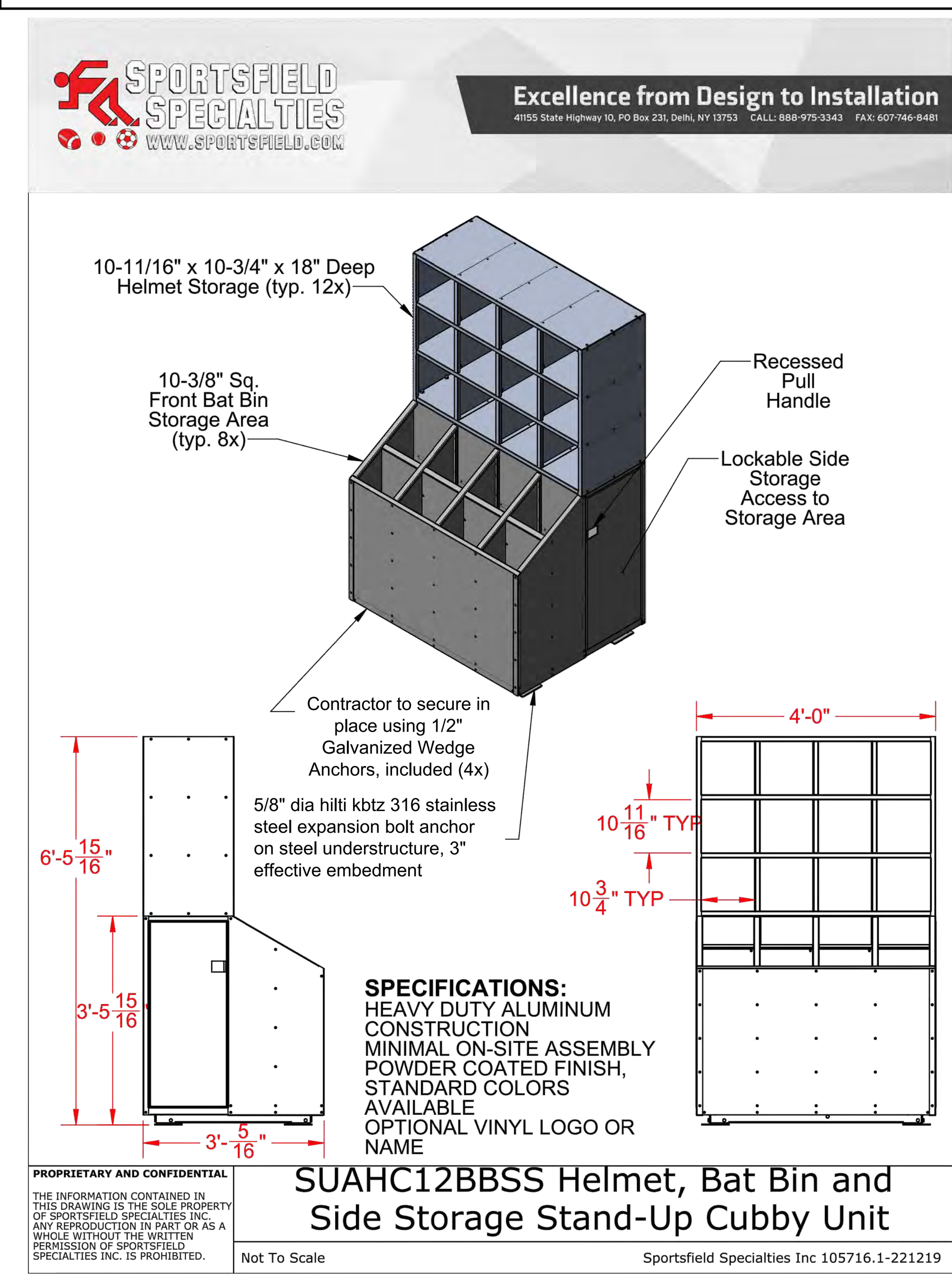
NOTES:
1. TENNIS POST ASSEMBLY TO BE PATTERSON WILLIAMS MODEL # 2201-11; (800) 687-5768.
2. POST TO BE POWDER COATED; COLOR TO BE SELECTED BY ARCHITECT.

H TENNIS POST ASSEMBLY SCALE: NTS

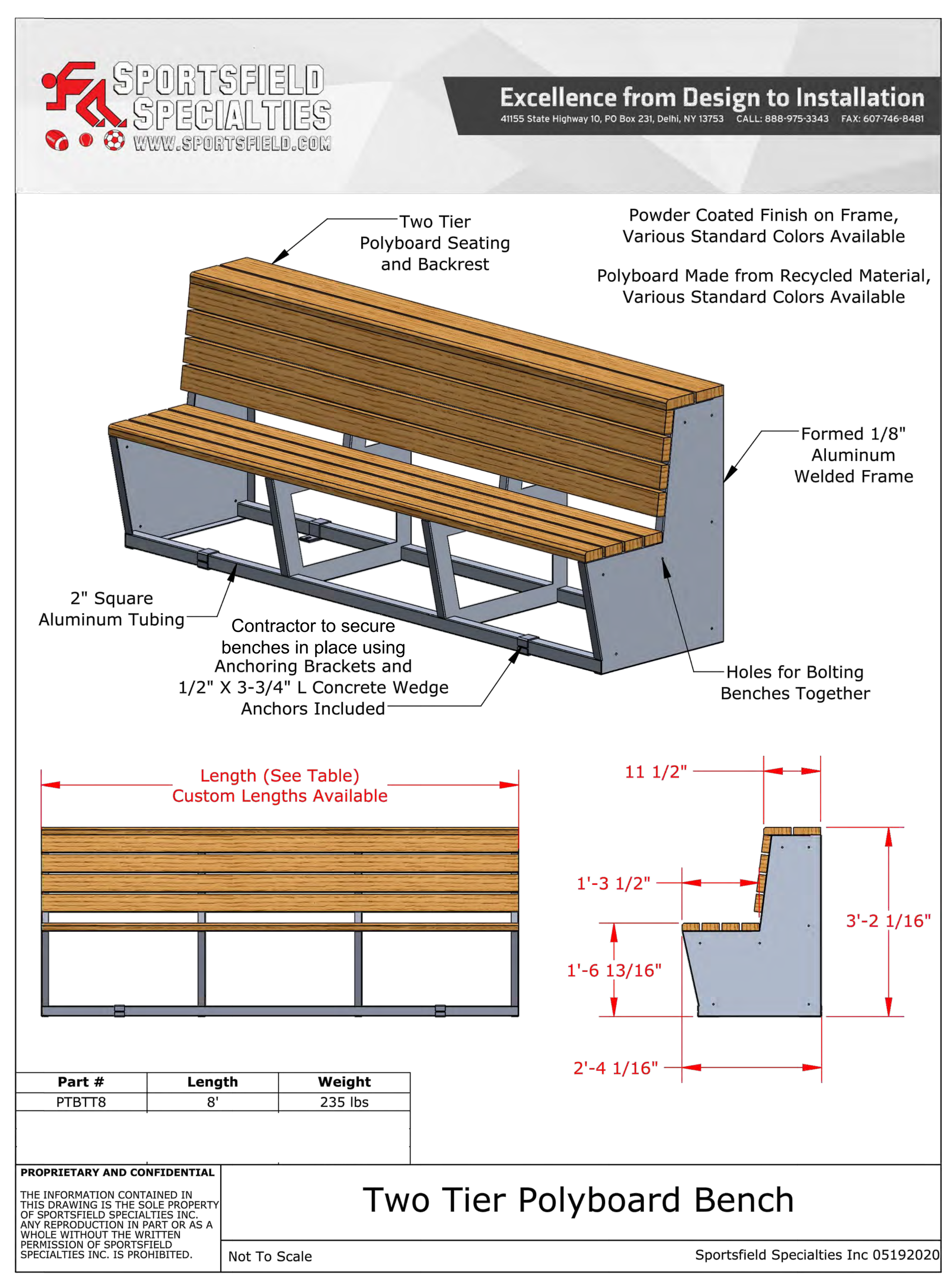


G FOUL POST FOOTING SCALE: NTS

F

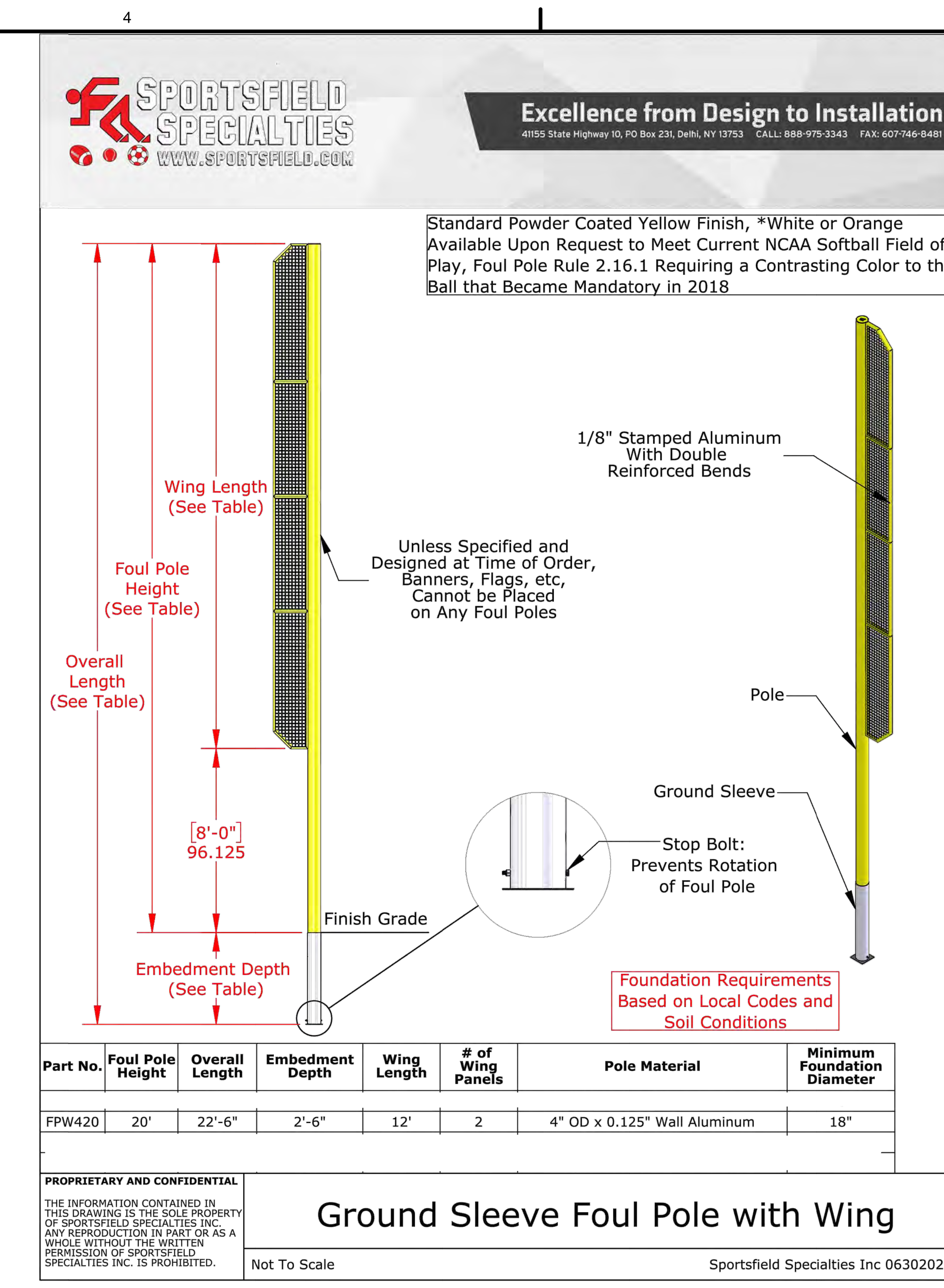


E BAT STORAGE SCALE: NTS



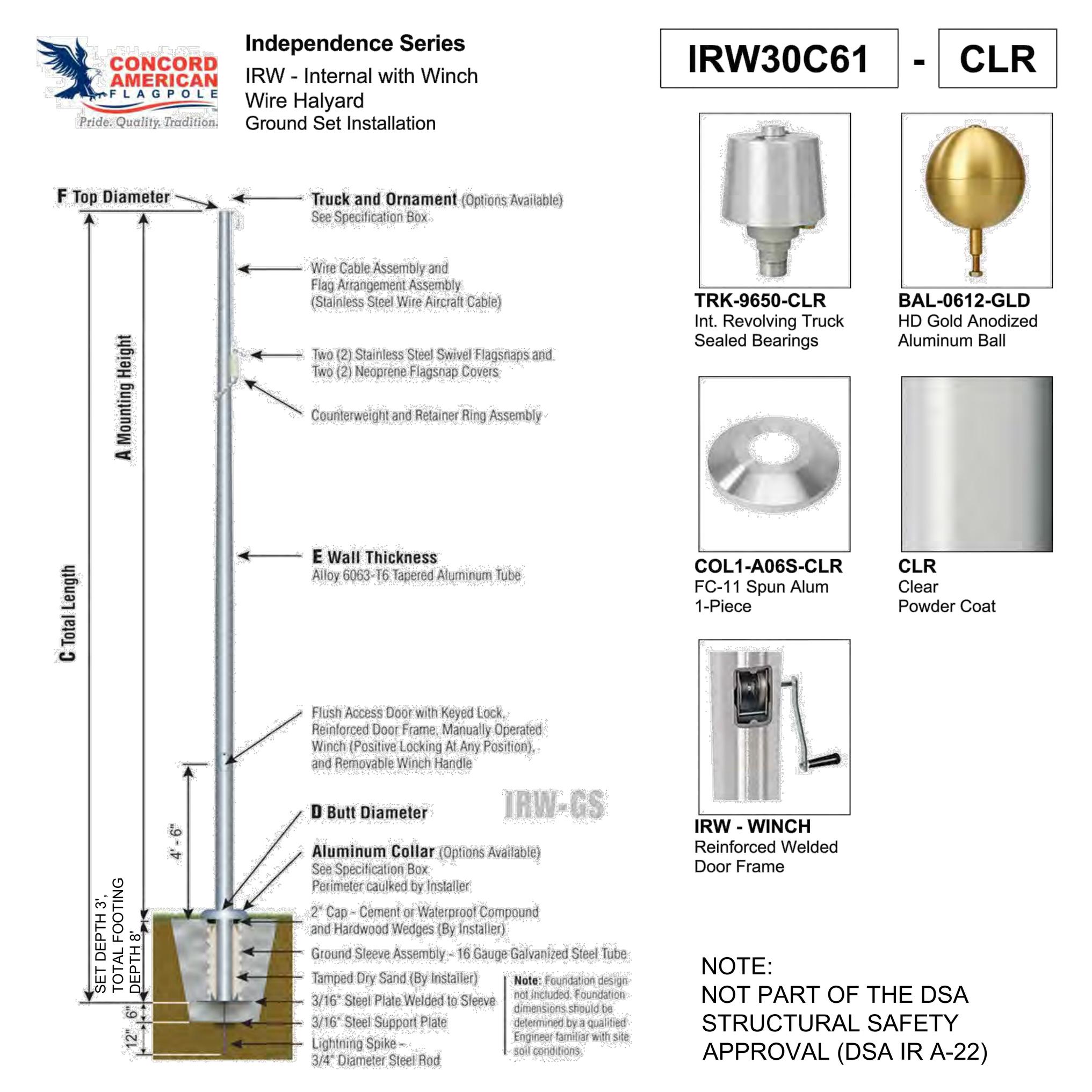
NOTES:
1. PLAYER'S BENCH BY SPORTSFIELD SPECIALTIES, MODEL# PTBTT-8.
2. COLOR TO BE TEXTURED BURGUNDY.

D PLAYER'S BENCH SCALE: NTS



NOTES:
1. FOUL POLE: SPORTSFIELD SPECIALTIES, MODEL# FPW420 COLOR TO BE YELLOW.
2. FOUL POLE AVAILABLE THROUGH: SPORTSFIELD SPECIALTIES, ALEX FLETCHER (408) 659-6055
3. REFER TO DETAIL G, L-56A FOR FOUL POST FOOTING.

C FOUL POLE SCALE: NTS

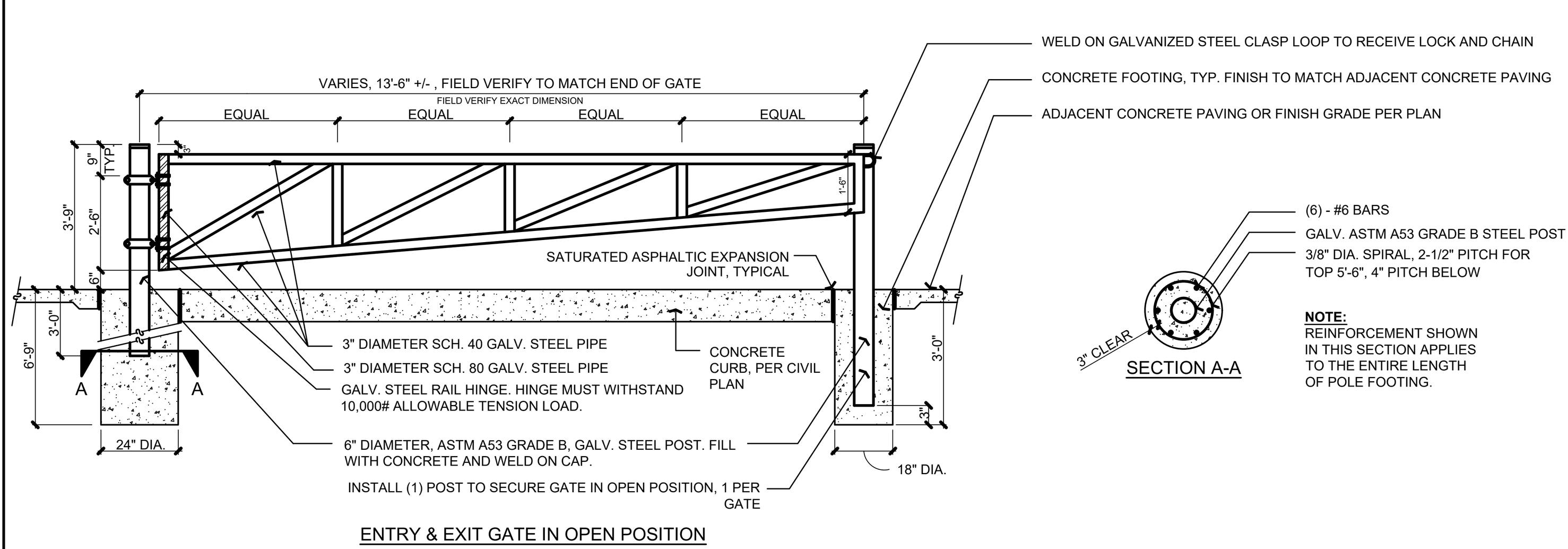


NOTE:
NOT PART OF THE DSA STRUCTURAL SAFETY APPROVAL (DSA IR A-22)

NOTE: Flagpole Components on Anodized and Powder Coat flagpoles (excluding specified Ornaments and Ball Trucks) will match flagpole color specified.

Specifications
A. Mounting Height: 30'
B. SET DEPTH 3',TOTAL FOOTING DEPTH 8'
C. Total Length: 33'-0"
D. Butt Diameter: 6"
E. Wall Thickness: .156"
F. Top Diameter: 3.5"
Flagpole Sections: 1
Shaft Weight: 143 lbs.
Hardware Weight: 22 lbs.
Ground Sleeve Weight: 36 lbs.
* Max Flag Size: 6' x 10'
* Max Wind Speed w/Nylon Flag: 108 mph
* Max Wind Speed No Flag: 174 mph
* Wind Speed Specifications from ANSI/NAAMM FP 1001-07

B FLAG POLE SCALE: NTS



NOTES:
1. WELD ALL PIPE JOINTS WITH 3/16" FILLET, WELD ALL AROUND AND GRIND SMOOTH.
2. PAINT ALL ABOVE GROUND COMPONENTS WITH PRIMER AND TWO COATS FINISH PAINT COLOR. ARCHITECT TO SELECT COLOR.
3. DISTRICT SHALL PROVIDE LOCK AND CHAIN TO SECURE GATE.

A PIPE RAIL GATE SCALE: NTS

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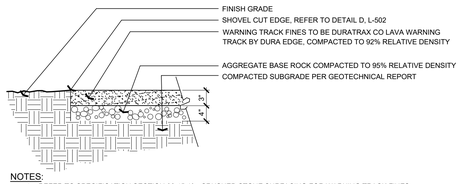
TITLE
CONSTRUCTION DETAILS

SHEET
L-56A

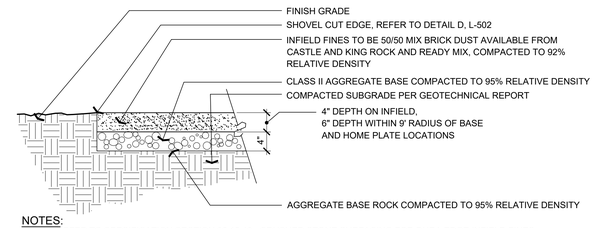
ANLA PROJECT NO: 2319

I WARNING TRACK FINES — SCALE: NTS



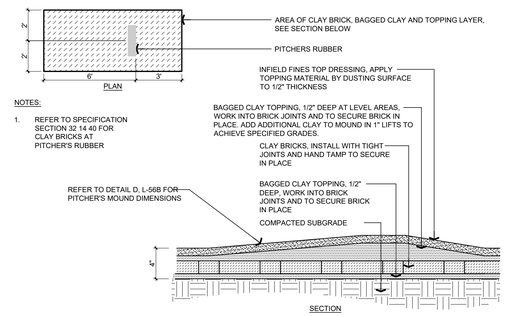
NOTES:
1. REFER TO SPECIFICATION SECTION 32 15 40 - CRUSHED STONE SURFACING FOR WARNING TRACK FINES.
2. INSTALL INFIELD FINES IN 2" LIFTS. WET & ROLL TO COMPACT EACH LIFT.
3. REFER TO DETAILS B & C, SHEET L-56B, FOR CLAY BRICKS AT HOME PLATE AND PITCHER'S RUBBER.

F INFIELD FINES — SCALE: NTS



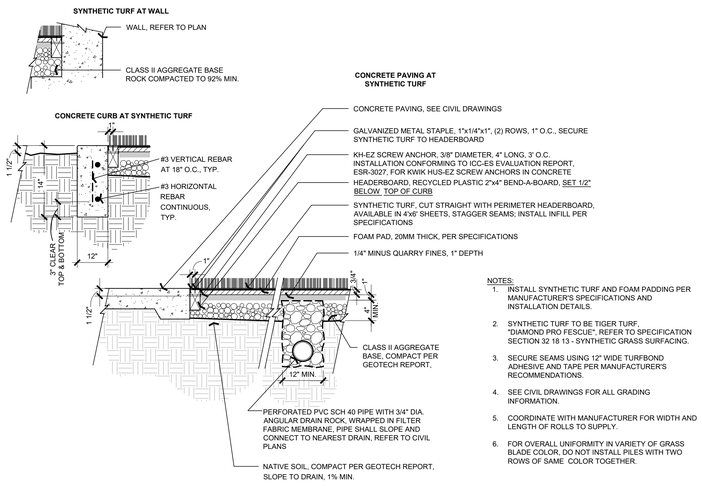
NOTES:
1. REFER TO SPECIFICATION SECTION 32 15 40 - CRUSHED STONE SURFACING FOR DURA EDGE INFIELD FINES
2. INSTALL INFIELD FINES IN 2" LIFTS. WET & ROLL TO COMPACT EACH LIFT.
3. REFER TO DETAILS B & C, SHEET L-56B, FOR CLAY BRICKS AT HOME PLATE AND PITCHER'S RUBBER.

C CLAY BRICKS, PITCHER'S RUBBER — SCALE: NTS



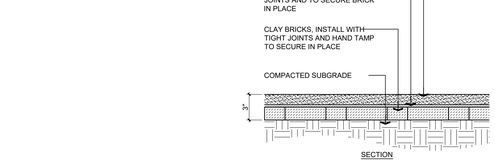
NOTES:
1. REFER TO SPECIFICATION SECTION 32 14 40 FOR CLAY BRICKS AT PITCHER'S RUBBER

H SYNTHETIC TURF — SCALE: NTS

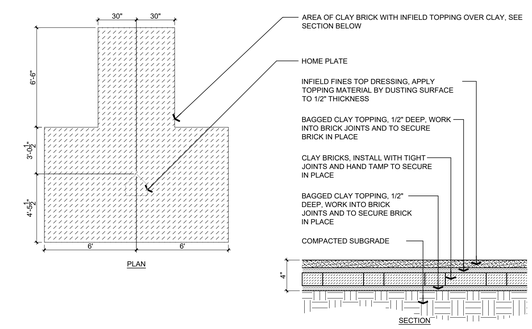


NOTES:
1. INSTALL SYNTHETIC TURF AND FOAM PADDING PER MANUFACTURER'S SPECIFICATIONS AND INSTALLATION DETAILS.
2. SYNTHETIC TURF TO BE TIGER TURF "DIAMOND PRO FESCUE", REFER TO SPECIFICATION SECTION 32 18 13 - SYNTHETIC GRASS SURFACING.
3. SECURE SEAMS USING 12" WIDE TURFBOND ADHESIVE AND TAPE PER MANUFACTURER'S RECOMMENDATIONS.
4. SEE CIVIL DRAWINGS FOR ALL GRADING INFORMATION.
5. COORDINATE WITH MANUFACTURER FOR WIDTH AND LENGTH OF ROLLS TO SUPPLY.
6. FOR OVERALL UNIFORMITY IN VARIETY OF GRASS BLADE COLOR, DO NOT INSTALL PILES WITH TWO ROWS OF SAME COLOR TOGETHER.

E PITCHER'S AREA, SOFTBALL — SCALE: NTS



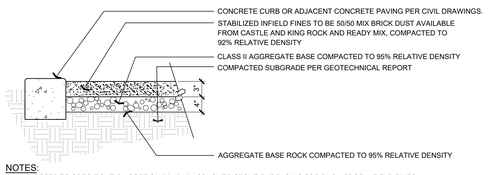
B CLAY BRICKS, HOME PLATE — SCALE: NTS



G STABILIZED FINES AT PAVING — SCALE: NTS

FINES AT PAVING NOTES:

1. PRIOR TO INSTALLATION, REMOVE WOODY WEEDS, KNOCK DOWN SOFT WEEDS WITH A STRING TRIMMER, OR CUT LAWNS AS LOW AS POSSIBLE.
2. **FINISH SURFACE OF FINES TO BE 1/8" BELOW ADJACENT PAVING SURFACE.**



NOTES:
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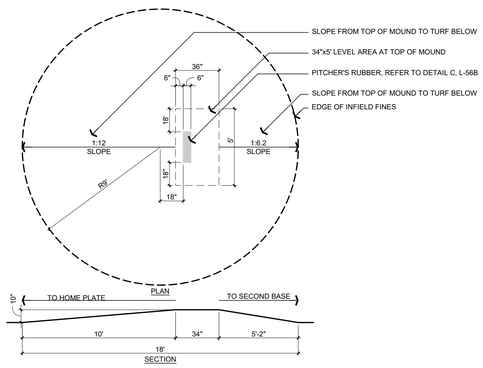
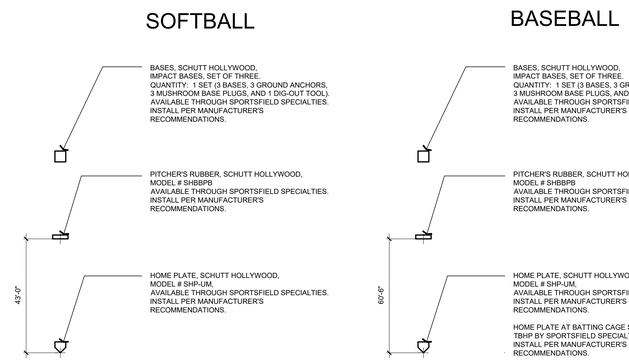
2. INSTALL INFIELD FINES IN 2" LIFTS. WET & ROLL TO COMPACT EACH LIFT.

D PITCHER'S MOUND — SCALE: NTS



A BASES, HOME PLATE, PITCHER'S RUBBER — SCALE: NTS



NOTE:
1. INSTALL BASES OVER BASE ANCHORING PER DETAIL I, L-56A
2. REFER TO DETAIL C, L-56D FOR BASE ANCHORING AT SYNTHETIC TURF.

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SEAL
LICENSED LANDSCAPE ARCHITECT
ALESSA J. NOGUES
No. 3676
Date 05/31/2023
Renewal Date 12/07/2023
Done
STATE OF CALIFORNIA

PROJECT
McCLATCHY HIGH SCHOOL
ATHLETIC FIELDS REPLACEMENT
3066 FREEPORT BLVD.
SACRAMENTO, CA 95818

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
5735 47TH AVENUE, SACRAMENTO, CA 95824

ISSUED

MARK	DATE	DESCRIPTION
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	12/7/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

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CLIENT PROJECT NO:	02-121610
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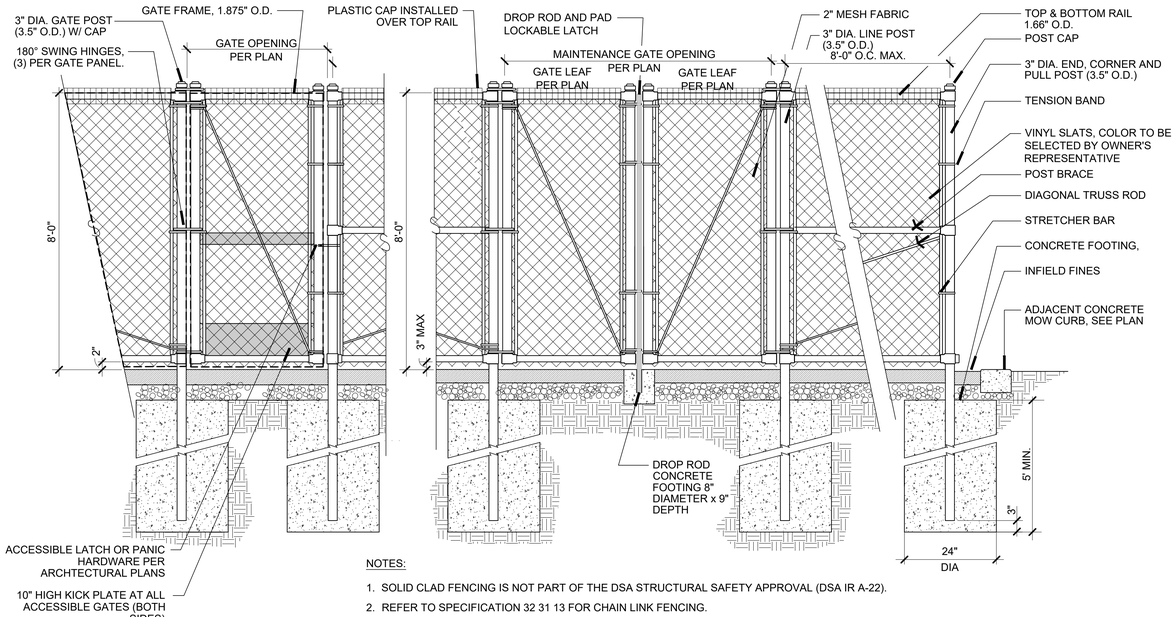
CONSTRUCTION DETAILS

SHEET
L-56B

ANLA PROJECT NO: 2319

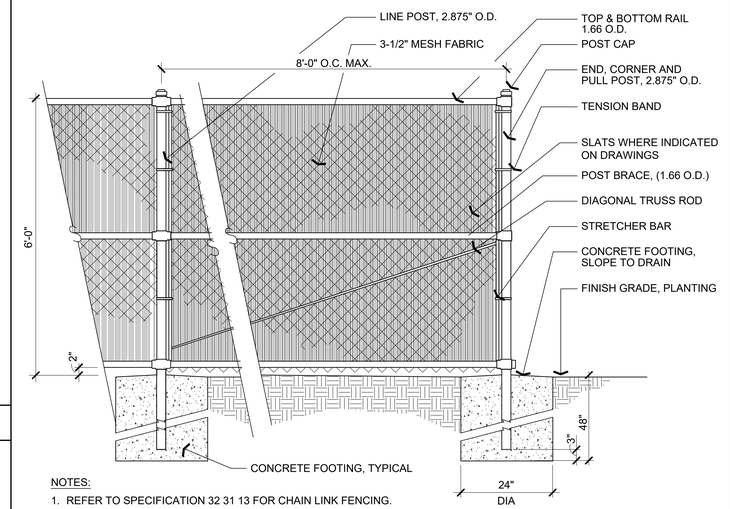


NOTES:

1. SOLID CLAD FENCING IS NOT PART OF THE DSA STRUCTURAL SAFETY APPROVAL (DSA IR A-22).
2. REFER TO SPECIFICATION 32 31 13 FOR CHAIN LINK FENCING.
3. ALL CHAIN LINK FENCE MATERIAL SHALL BE GALVANIZED.
4. REFER TO SPECIFICATION SECTION 08 71 00 FOR ACCESSIBLE GATE LATCH & PANIC HARDWARE.
5. WHERE GATES OCCUR WITHIN THE PATH OF TRAVEL, GATES SHALL COMPLY WITH EXIT DOOR REQUIREMENTS (SECTION 1003.3.1).
6. INSTALL AER-FLO PLASTIC CAP PN TOP RAIL, COLOR TO BE YELLOW. SECURE IN PLACE PER MANUFACTURER'S RECOMMENDATIONS.
7. ALL EXPOSED CHAIN LINK FENCING MATERIAL TO BE PVC COATED. COLOR TO BE SELECTED BY OWNER'S REPRESENTATIVE.

F CHAIN LINK FENCE, 8'

SCALE: NTS

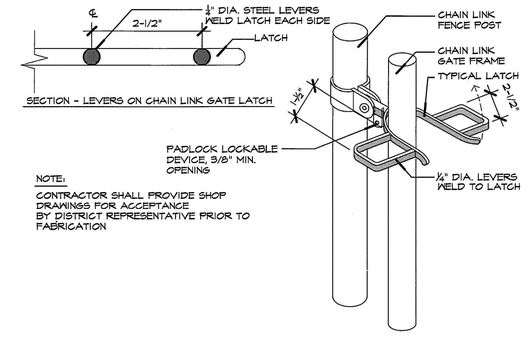


NOTES:

1. REFER TO SPECIFICATION 32 31 13 FOR CHAIN LINK FENCING.
2. ALL EXPOSED CHAIN LINK FENCING MATERIAL TO BE PVC COATED. COLOR TO BE SELECTED BY OWNER'S REPRESENTATIVE.

B CHAIN LINK FENCE, 6' HIGH

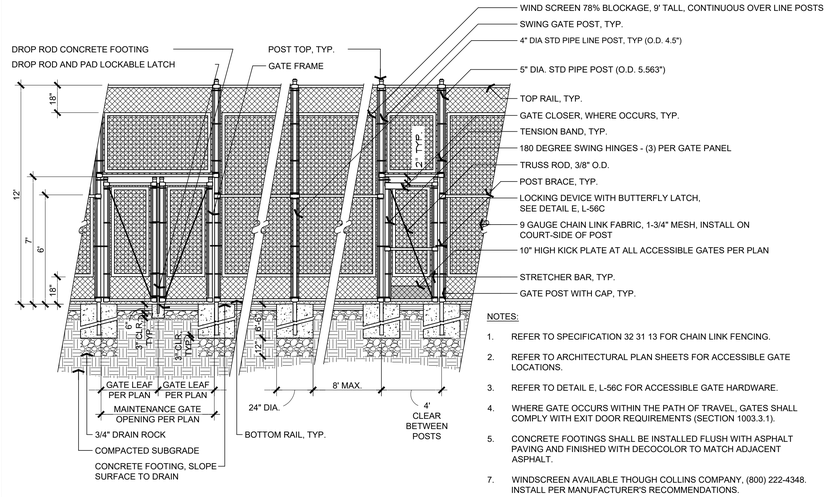
SCALE: NTS



NOTE:
CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ACCEPTANCE BY DISTRICT REPRESENTATIVE PRIOR TO FABRICATION

E ACCESSIBLE LATCH

SCALE: NTS

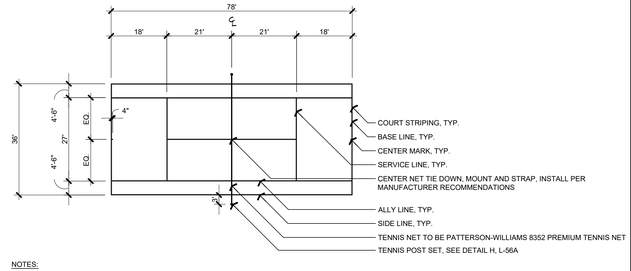


NOTES:

1. REFER TO SPECIFICATION 32 31 13 FOR CHAIN LINK FENCING.
2. REFER TO ARCHITECTURAL PLAN SHEETS FOR ACCESSIBLE GATE LOCATIONS.
3. REFER TO DETAIL E, L-56C FOR ACCESSIBLE GATE HARDWARE.
4. WHERE GATE OCCURS WITHIN THE PATH OF TRAVEL, GATES SHALL COMPLY WITH EXIT DOOR REQUIREMENTS (SECTION 1003.3.1).
5. CONCRETE FOOTINGS SHALL BE INSTALLED FLUSH WITH ASPHALT PAVING AND FINISHED WITH DECOCOLOR TO MATCH ADJACENT ASPHALT.
7. WINDSCREEN AVAILABLE THOUGH COLLINS COMPANY, (800) 222-4348. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
8. INSTALL WINDSCREEN FLUSH TO FENCE PERPENDICULAR AND PARALLEL TO FENCE FRAMEWORK, WITH NO WRINKLES ON WARNING TRACK SIDE OF FENCES. SECURE TO FENCE WITH A MIN OF (90) "C" SHAPED HOG RINGS PER POUND OF FABRIC AND AS RECOMMENDED BY MANUFACTURER. HOG RINGS COLORS TO MATCH COLOR OF FENCE. MANUFACTURER TO SIZE WINDSCREEN TO FIT FENCING WITH SEAMED EDGES, NO RAW CUT EDGES.
9. ALL EXPOSED CHAIN LINK FENCING MATERIAL TO BE PVC COATED. COLOR TO BE SELECTED BY OWNER'S REPRESENTATIVE.

D CHAIN LINK FENCE, 12'

SCALE: NTS



NOTES:

1. AREA BETWEEN COURT AND EDGE OF ASPHALT PAVING TO BE FINISHED IN DECOCOLOR "FOREST GREEN" BY DECOTURF, REFER TO SPECIFICATIONS.
2. ALL TENNIS COURT STRIPING TO BE 2" WIDE WHITE DECOCOLOR FINISH BY DECOTURF PER SPECIFICATION 32 12 33.1.
3. COURT FIELD OF PLAY TO BE PAINTED "ROYAL BLUE," REFER TO SPECIFICATIONS 32 12 33.1.
4. TENNIS NET TO BE INSTALLED BY CONTRACTOR FOR SUBSTANTIAL COMPLETION REVIEW.
5. CENTER NET TIE DOWN KIT BY PATTERSON WILLIAMS, GROUND ANCHOR MODEL #8371-20, TIE DOWN STRAP MODEL #8371-30. AVAILABLE THROUGH DAVID F. O'KEEFE COMPANY, (510) 558-0140.

A TENNIS COURT

SCALE: NTS

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SEAL

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No. 3676
ALYESA J. NOGUES
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L-56C

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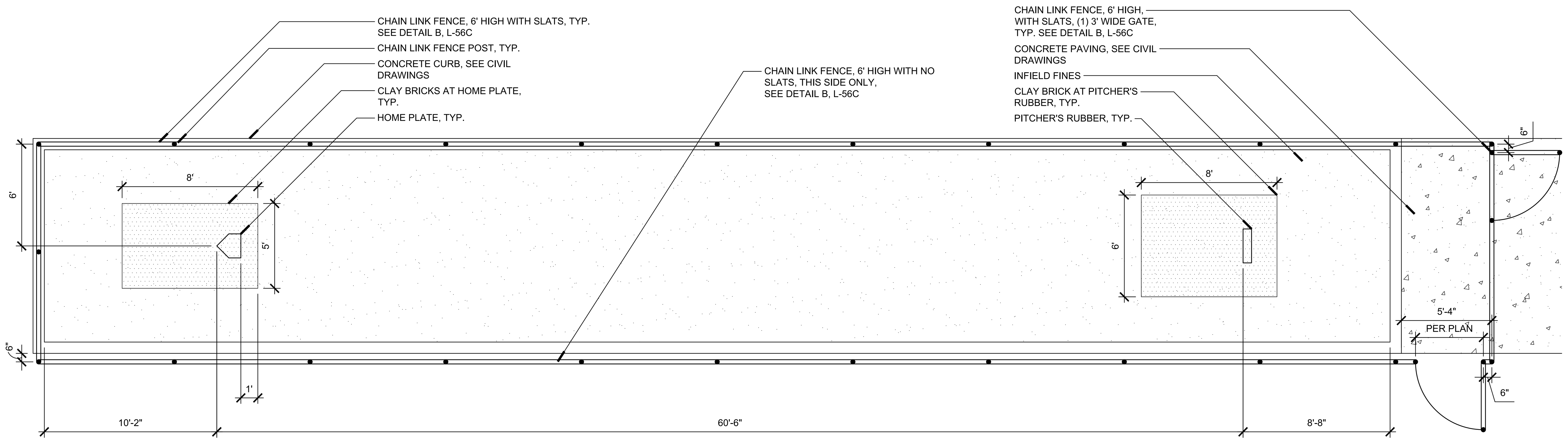
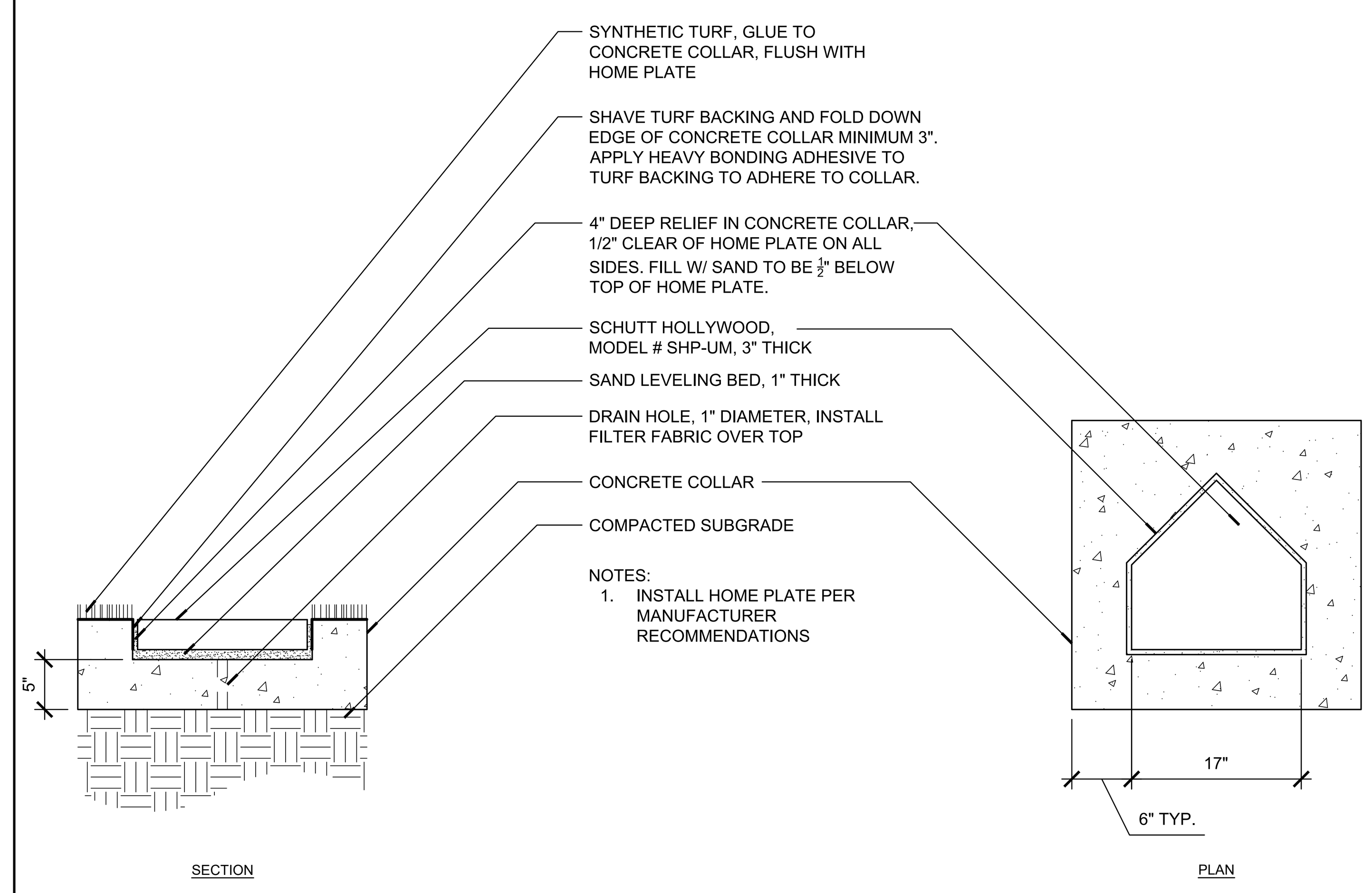
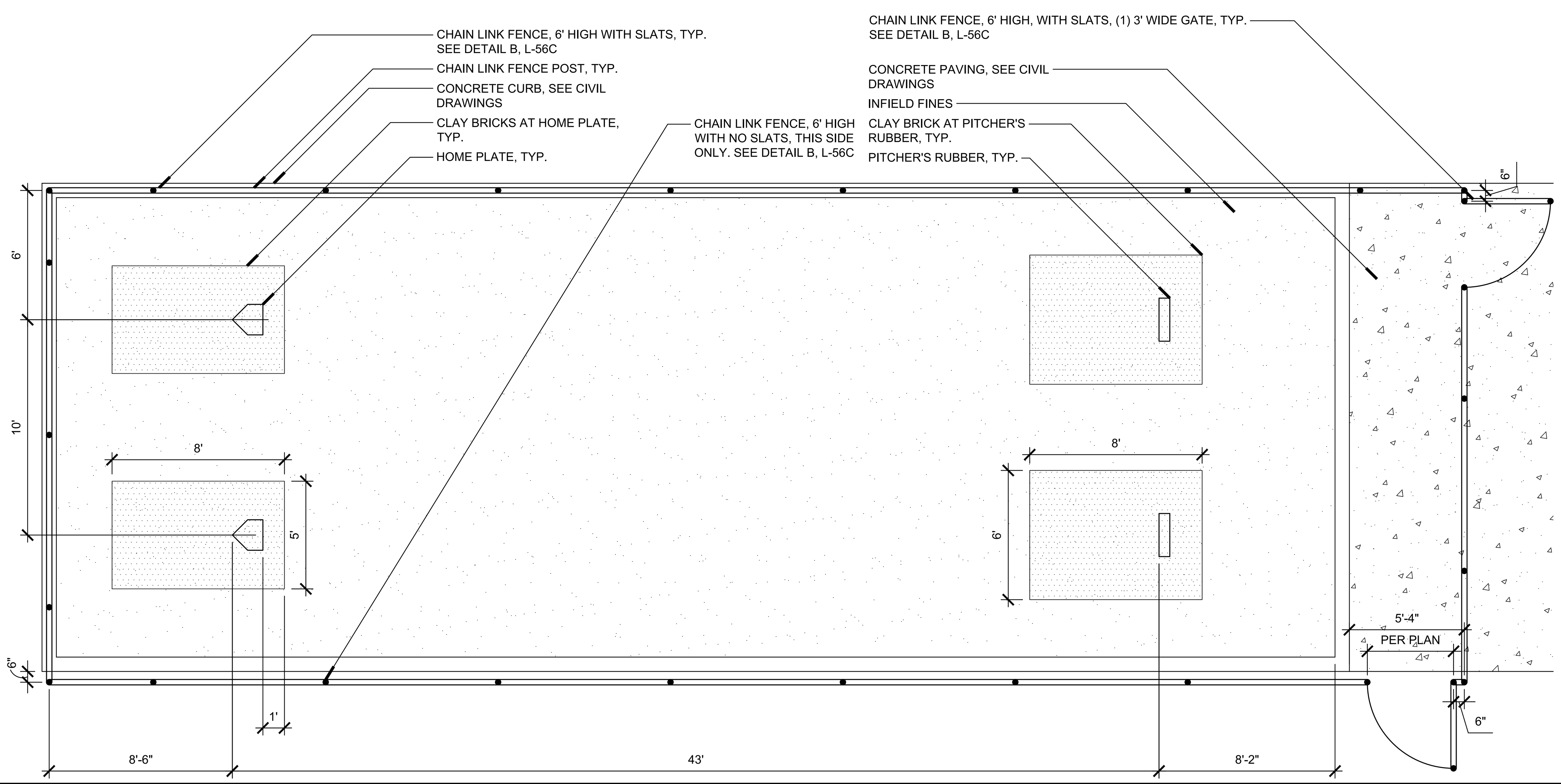


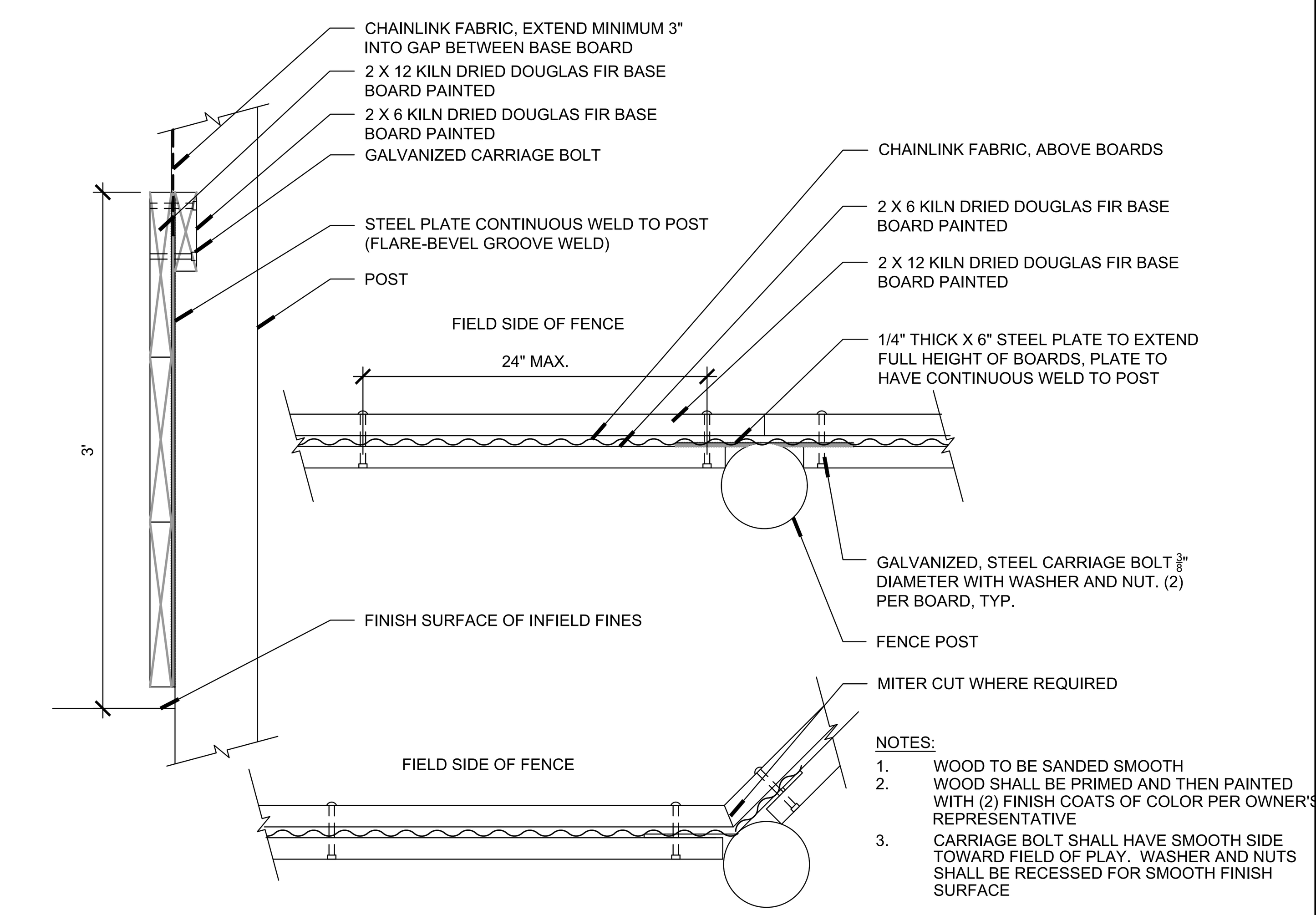
F BASEBALL BULLPEN, SINGLE SCALE: NTS



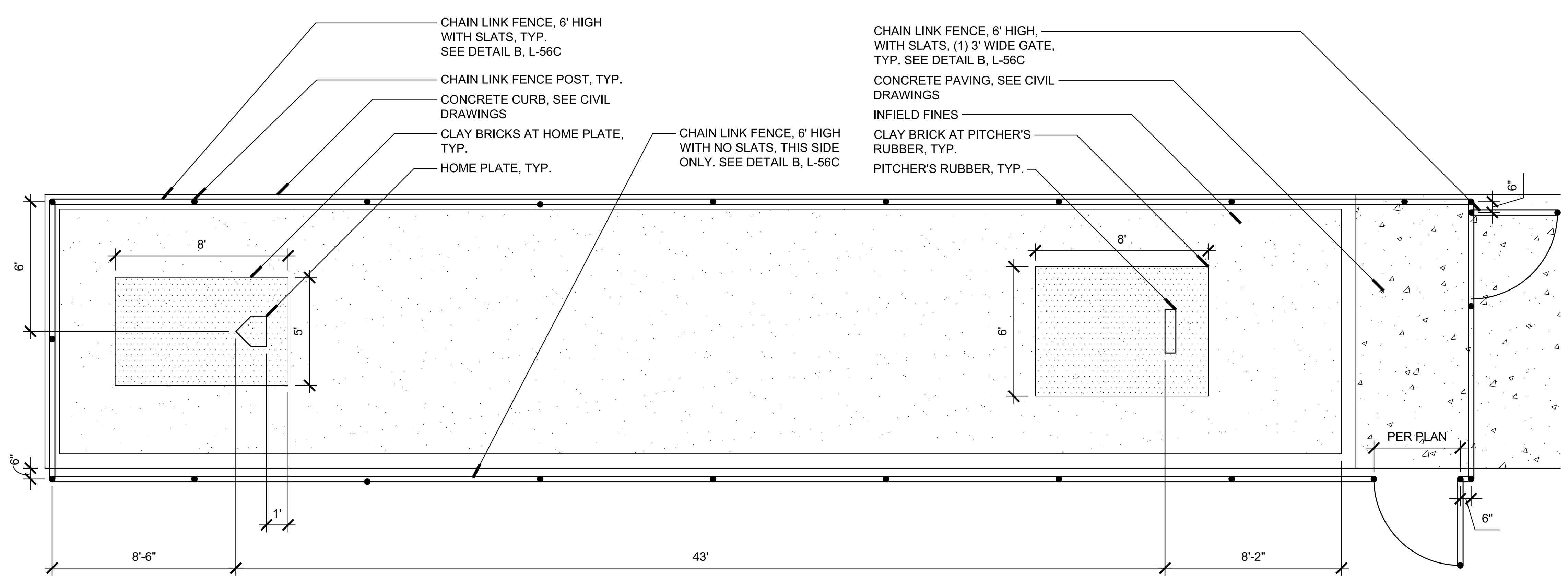
C HOME PLATE AT SYNTHETIC TURF SCALE: NTS



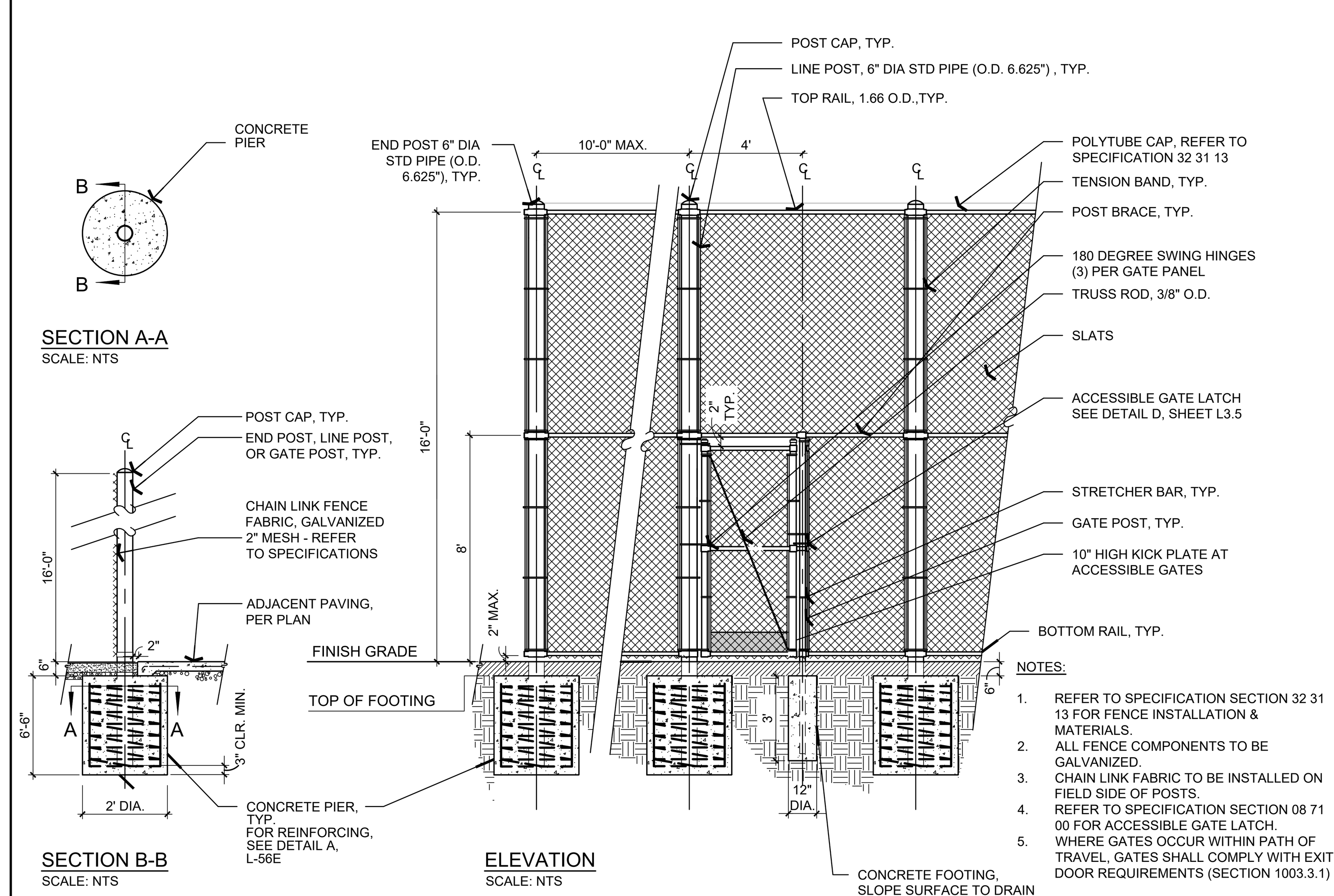
E SOFTBALL BULLPEN, DOUBLE SCALE: NTS



B BASEBOARD AT BACKSTOP (INSTALLED CONTINUOUS ON 30'-0" HIGH CHAINLINK FENCE) SCALE: NTS



D SOFTBALL BULLPEN, SINGLE SCALE: NTS



A CHAIN LINK FENCE, 16' SCALE: NTS

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LICENSED LANDSCAPE ARCHITECT — ALISSA J. NOGUEZ — No. 3676 — 05/31/2025 Renewal Date — 12/07/2023 Date — STATE OF CALIFORNIA

PROJECT
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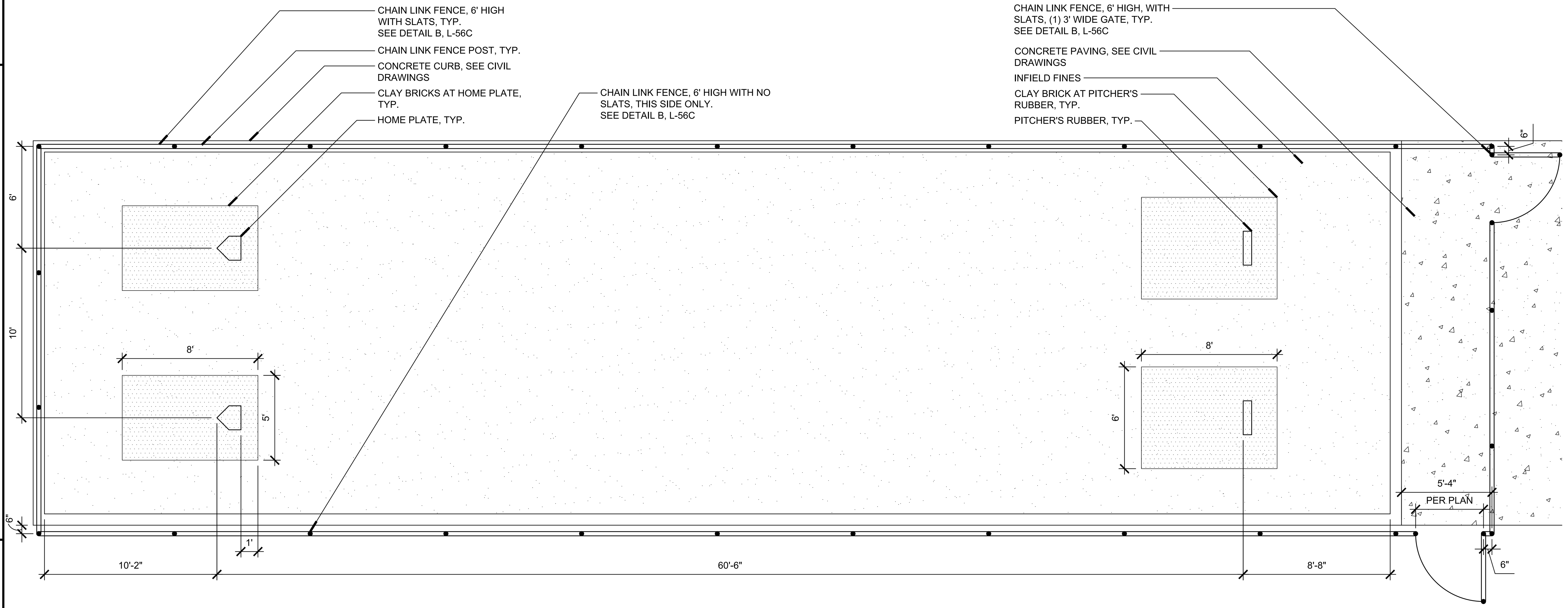
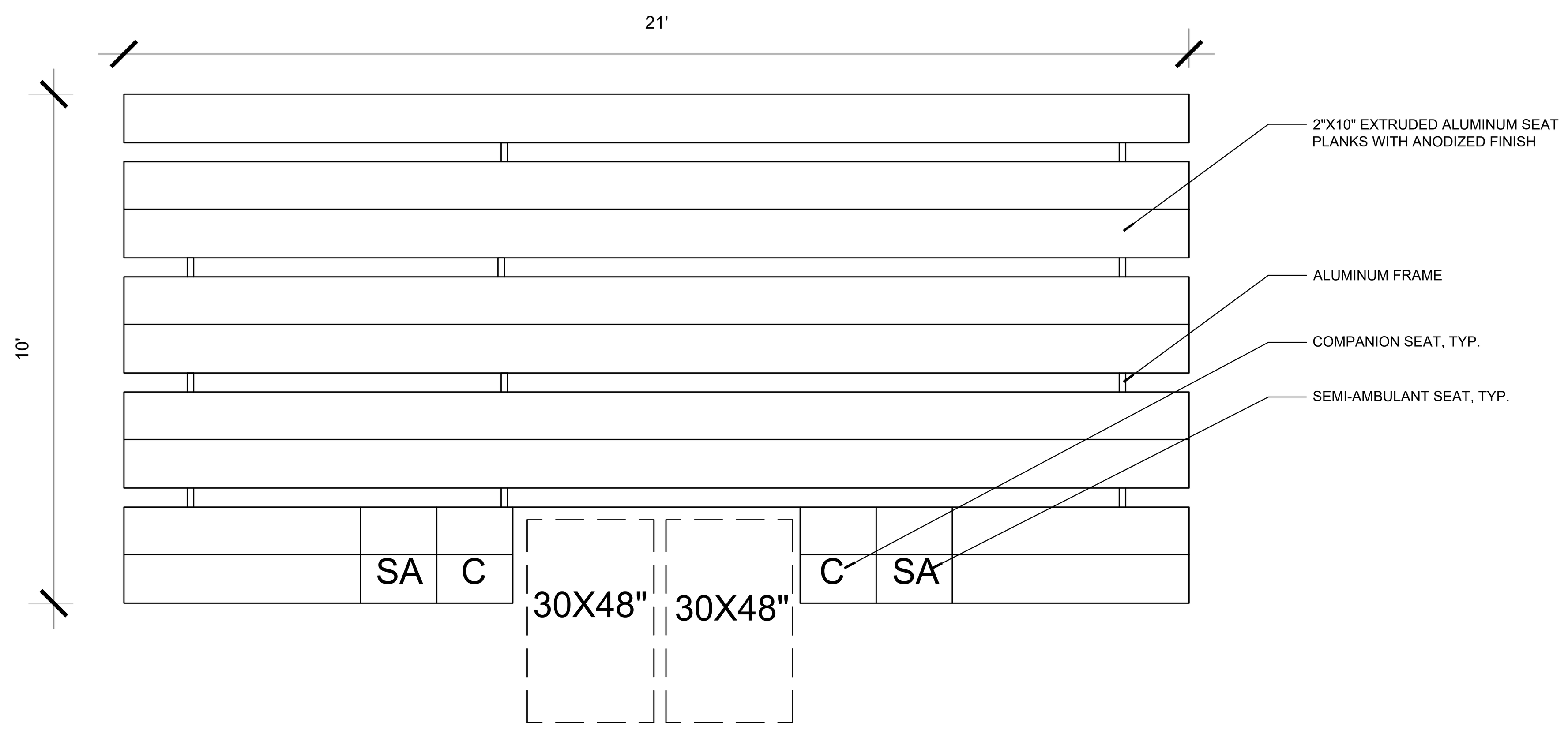
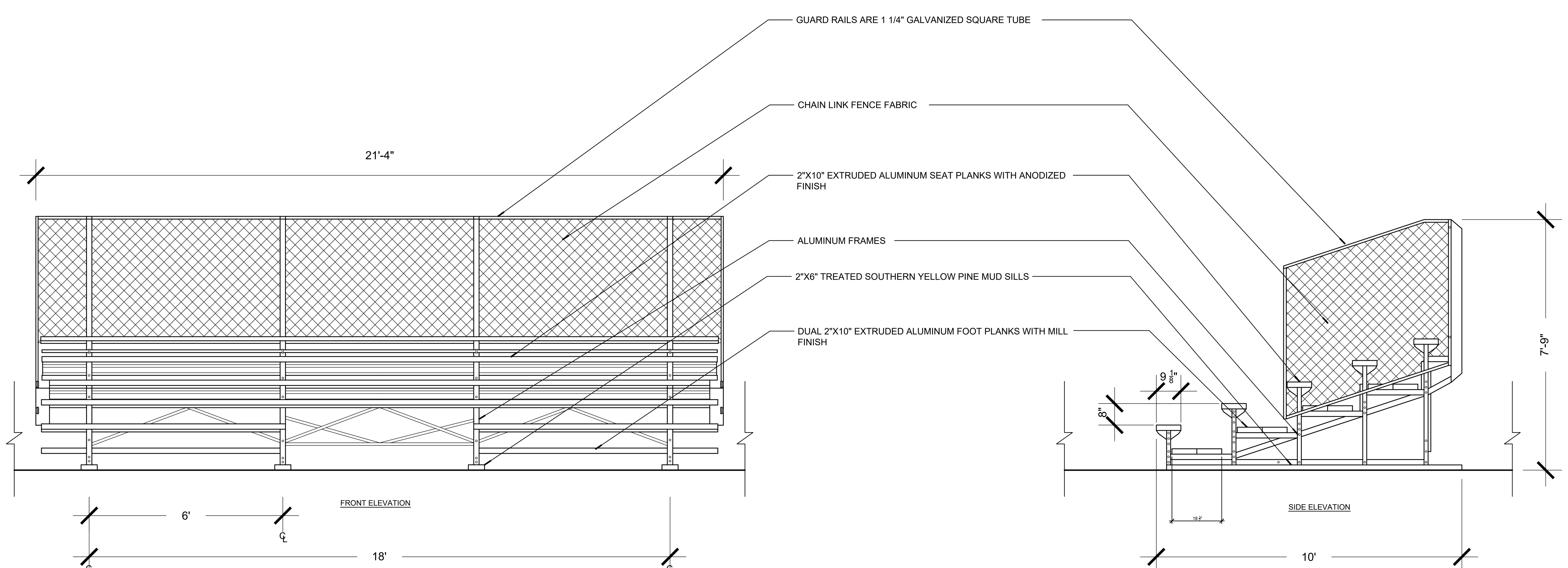


D BASEBALL BULLPEN, DOUBLE

B





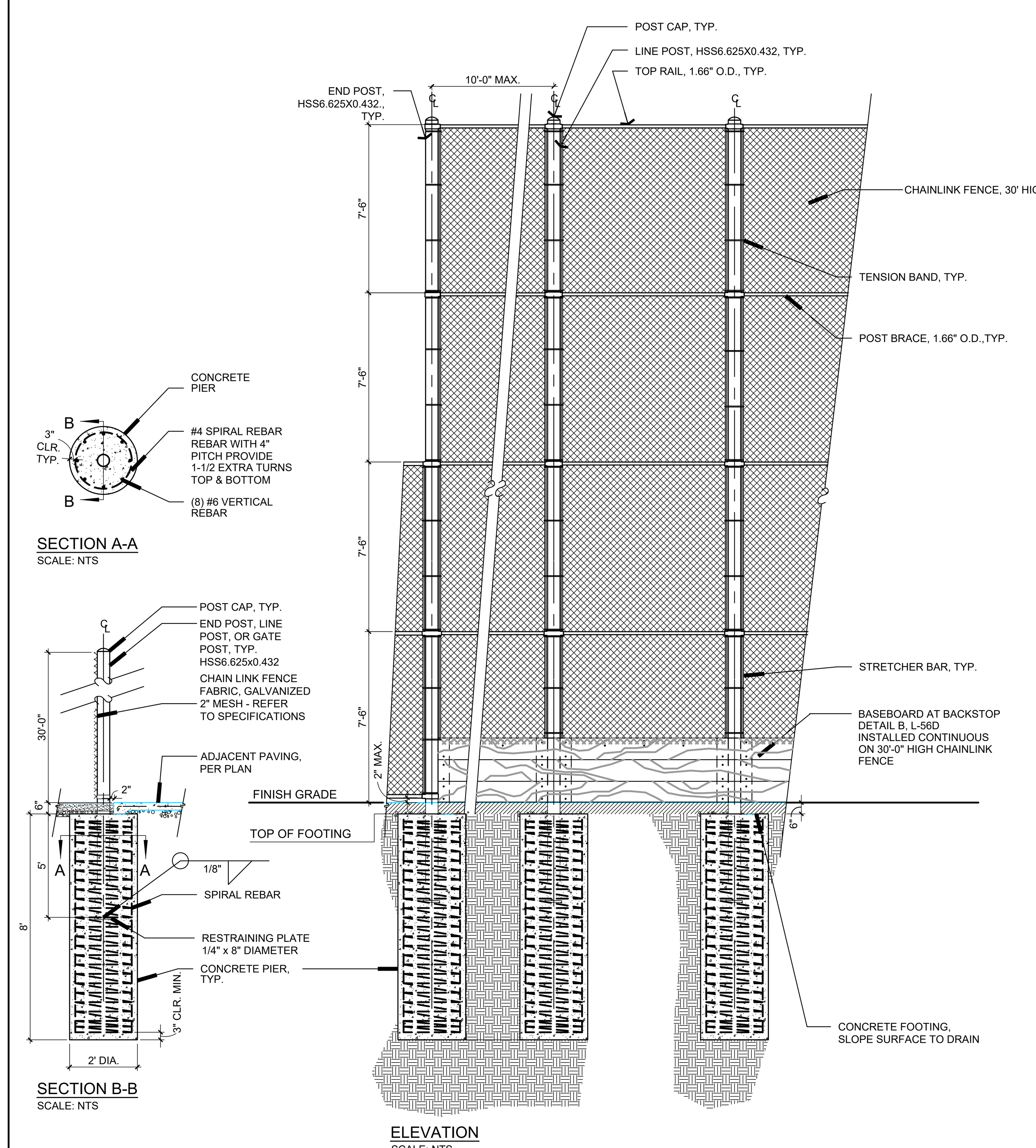
NOTES:

1. BLEACHERS TO BE 5- ROW, 21' LONG, ***NON-AISLE*** STYLE WELDED ALUMINUM WITH CHAINLINK GUARDRAIL SYSTEM BY SOUTHERN BLEACHER COMPANY.
   PO BOX ONE, GRAHAM, TEXAS 76450
   801 FIFTH STREET.
   PHONE: 940/549-0733
2. **NOT PART OF DSA STRUCTURAL SAFETY APPROVAL (DSA IR A-22)**

46 TOTAL NET 18" SEATS
2 TOTAL 18" COMPANION SEATS
2 TOTAL NET 33" WHEELCHAIR SPACES
50 TOTAL SEATING CAPACITY

C BLEACHERS

SCALE: NTS



NOTES:

1. REFER TO SPECIFICATION SECTION 32 31 13 FOR FENCE INSTALLATION & MATERIALS.
2. ALL FENCE COMPONENTS TO BE GALVANIZED.
3. CHAIN LINK FABRIC TO BE INSTALLED ON FIELD SIDE OF POSTS.
4. REFER TO SPECIFICATION SECTION 08 71 00 FOR ACCESSIBLE GATE LATCH.
5. WHERE GATES OCCUR WITHIN PATH OF TRAVEL, GATES SHALL COMPLY WITH EXIT DOOR REQUIREMENTS (SECTION 1003.3.1)

A CHAIN LINK FENCE, 30'

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LICENSED LANDSCAPE ARCHITECT ALISSA J. NOGUEZ No. 3676 05/31/2025 Renewal Date 12/07/2023 Date STATE OF CALIFORNIA

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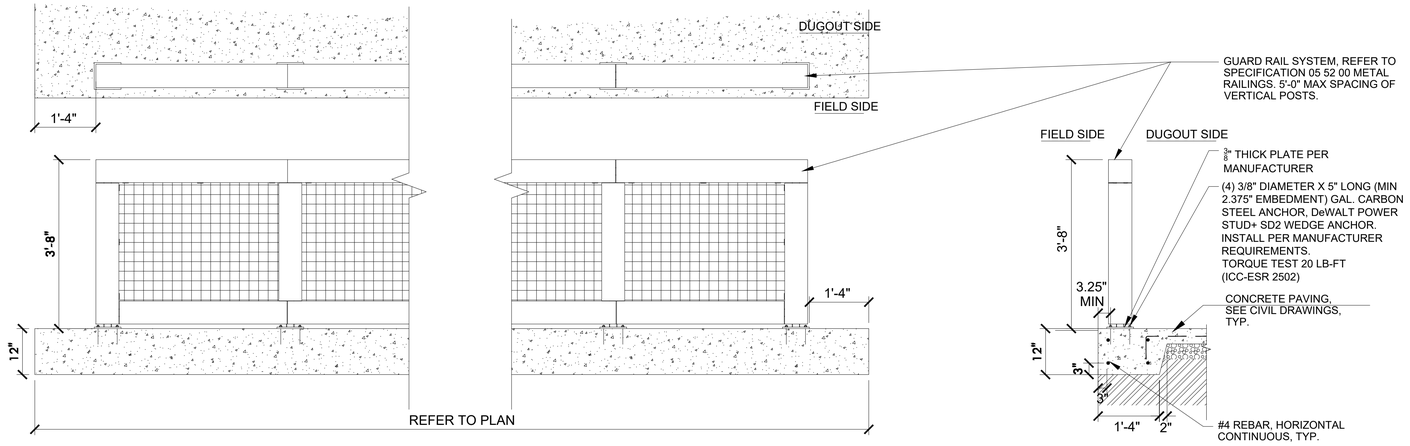
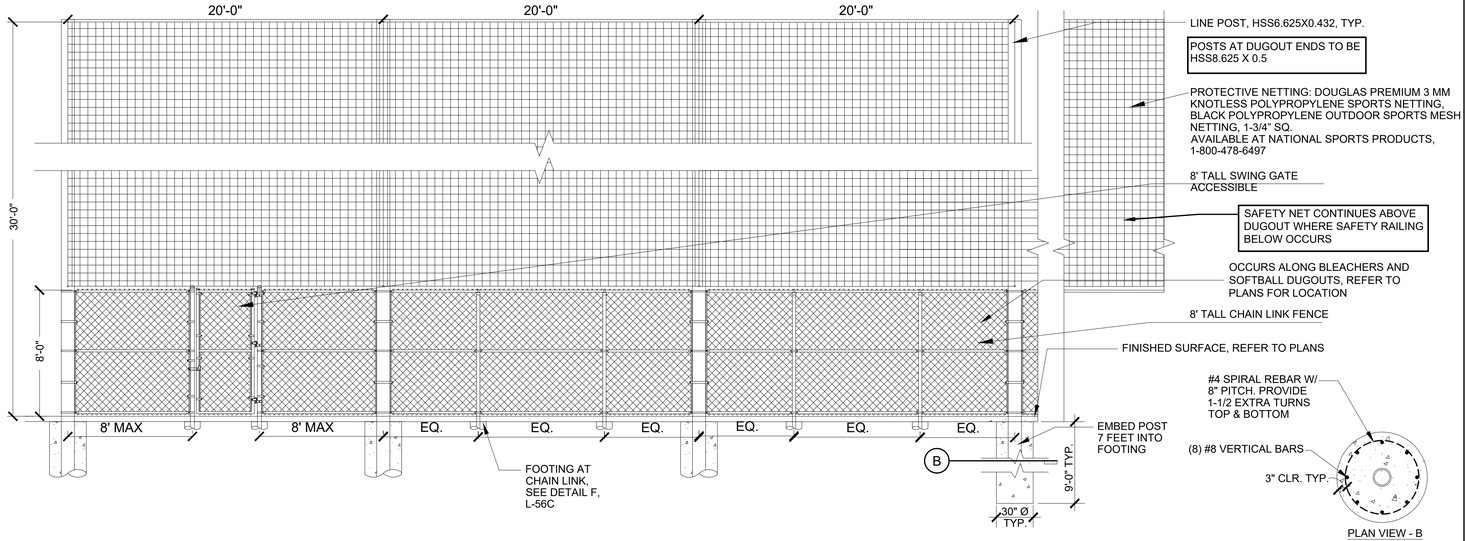


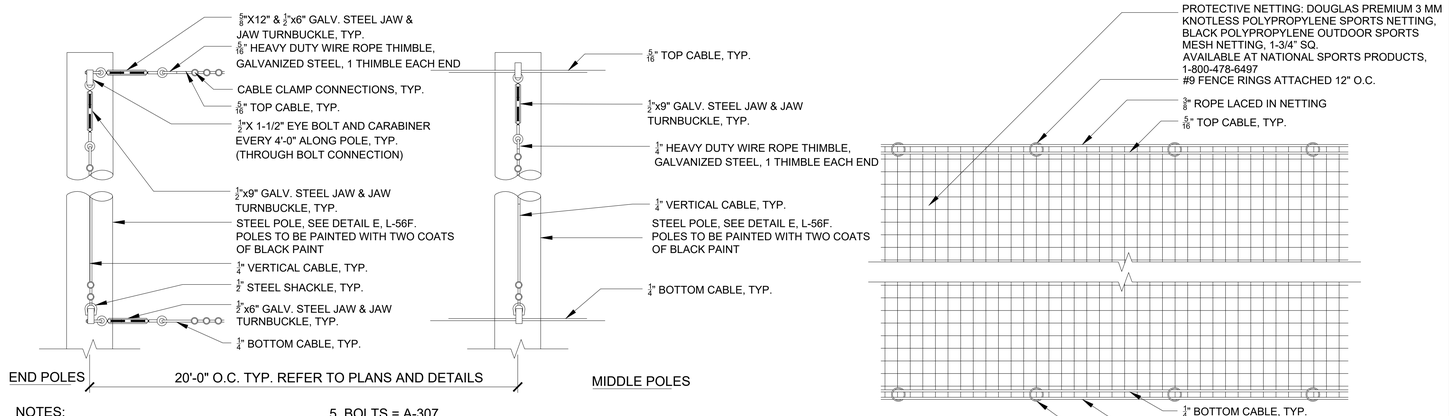
F GUARD RAIL SYSTEM

SCALE: NTS



E 22' PROTECTIVE NETTING OVER 8' TALL CHAIN LINK FENCE

SCALE: NTS



NOTES:
1. POLE = 8"DIA. X SCHED. 40 MIN YIELD STRENGTH TO BE 35KSI
2. MAX SPACING = 20' O.C.
3. STRUCTURAL STEEL = ASTM A-36
4. STEEL PIPE /TUBE = ASTM A-53 GRADE B
5. BOLTS = A-307
6. WIRE ROPE CLAMPS PER FEDERAL SPC FF-C-450, TYPE 1, CLASS 1
7. CABLE = ASTM A-603 6X19 WIRE ROPE
8. NETTING TO BE DOUGLAS PREMIUM 3 MM KNOTLESS POLYPROPYLENE SPORTS NETTING, BLACK POLYPROPYLENE OUTDOOR SPORTS MESH NETTING, 1-3/4" SQ.
9. FOR POLE FOOTING INFORMATION, SEE DETAIL E, L56-F

D PROTECTIVE NETTING

SCALE: NTS

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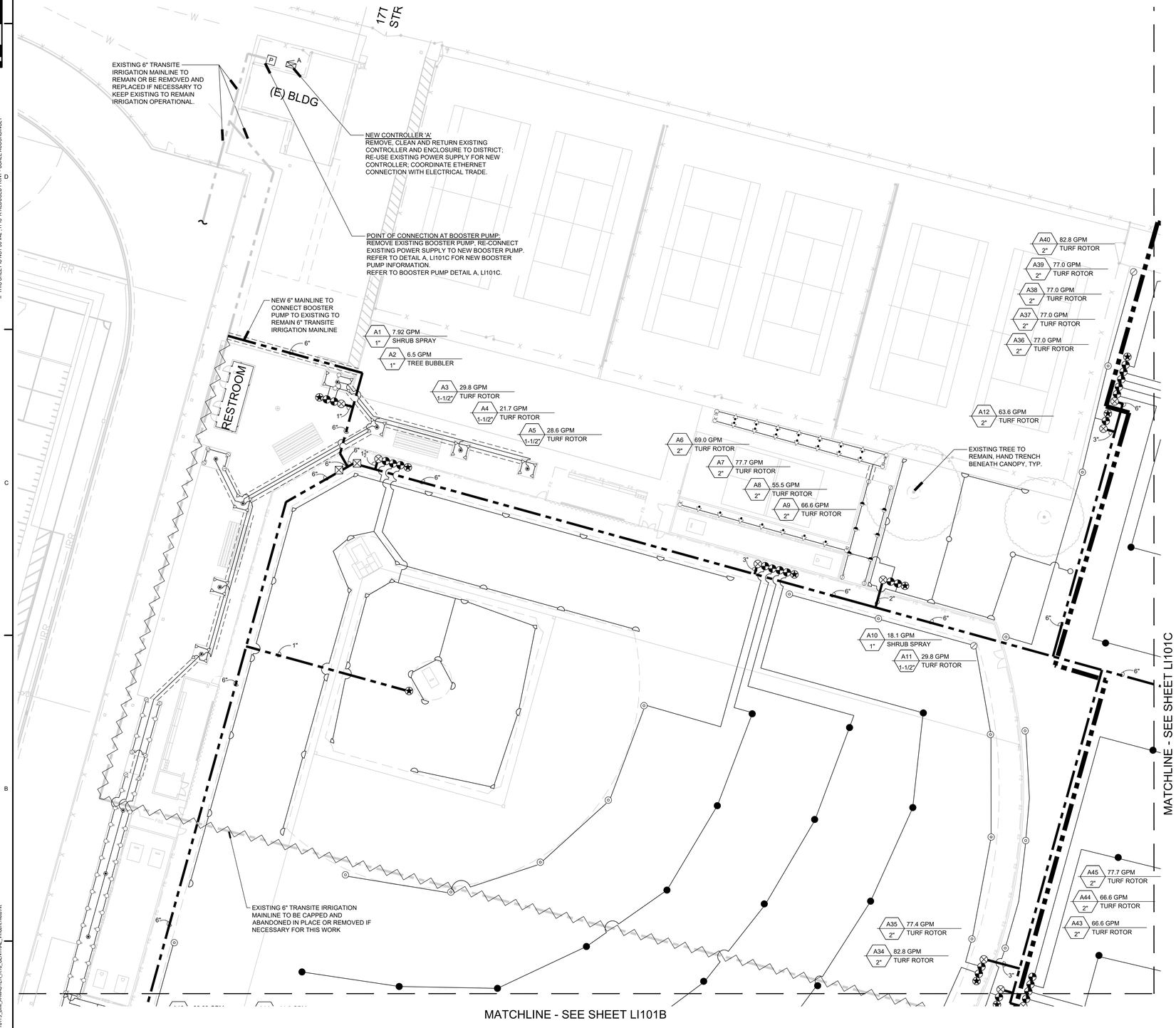

IRRIGATION NOTES

1. THESE NOTES ARE FOR GENERAL REFERENCE IN CONJUNCTION WITH AND AS A SUPPLEMENT TO THE WRITTEN SPECIFICATIONS, DETAILS, ADDENDA AND CHANGE ORDERS ASSOCIATED WITH THE CONTRACT DOCUMENTS.
2. CONTRACTOR SHALL BECOME FAMILIAR WITH THE LOCATION OF EXISTING AND PROPOSED UNDERGROUND SERVICES. CONTACT UNDERGROUND SERVICE ALERT (USA) AT (800) 642-2444 PRIOR TO BEGINNING WORK. CONTACT OWNER'S REPRESENTATIVE SHOULD ANY CONFLICTS ARISE.
3. THE IRRIGATION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH LOCAL CODES AND REGULATIONS. CONTRACTOR TO CONFORM TO THE REQUIREMENTS OF NFPA 24, SECTION 8.1, MINIMUM 'DEPTH-OF-COVER' (36 INCHES) FOR PIPE TO INCLUDE FIRE LANE ROUTES OF ACCESS.
4. THIS SYSTEM IS DESIGNED TO OPERATE AT 120 PSI AND 85.8 GPM FROM THE POINT OF CONNECTION. CONTRACTOR SHALL VERIFY PRESSURE AND FLOW PRIOR TO BEGINNING OF WORK. CONTACT OWNER'S REPRESENTATIVE IMMEDIATELY SHOULD CONFLICTS ARISE.
5. THE IRRIGATION SYSTEM DESIGN IS DIAGRAMMATIC. WHERE PIPING, VALVES, ETC. ARE SHOWN OUTSIDE OF PLANTING AREAS, THE INTENT IS FOR PIPING, VALVES, ETC. TO BE INSTALLED WITHIN PLANTING AREAS UNLESS OTHERWISE NOTED AND DETAILED.
6. CONTRACTOR SHALL COORDINATE IRRIGATION INSTALLATION WITH OTHER TRADES. CONTRACTOR TO COORDINATE AND VERIFY ALL SLEEVING, PIPING, ELECTRICAL SUPPLY, POINT OF CONNECTION, ETC.
7. CONTRACTOR IS RESPONSIBLE FOR COMPLETE AND UNIFORM COVERAGE OF PLANTING AND TURF AREAS. CONTRACTOR TO THROTTLE THE FLOW CONTROL AT EACH VALVE TO OBTAIN OPTIMUM OPERATING PRESSURE FOR EACH CIRCUIT. ADJUST SPRAY HEADS AND NOZZLES FOR OPTIMUM COVERAGE WHILE PREVENTING OVERSPRAY ONTO WALKWAYS AND STRUCTURES. ADDITIONALLY, CONTRACTOR SHALL ADJUST ALL VALVES, NOZZLES, AND HEADS FOR OPTIMUM COVERAGE, AVOIDING MISTING, OVERSPRAY, OR UNDERSPRAY.
8. LATERAL LINES TO BE SIZED PER PIPE SIZING CHART.
9. CONTRACTOR TO MAINTAIN AS-BUILT DRAWING SET TO BE AVAILABLE ON SITE AT ALL TIMES AND AT TIME OF SUBSTANTIAL COMPLETION REVIEW. CONTRACTOR SHALL PREPARE REDUCED, COLOR-CODED PLANS, LAMINATE, AND PLACE (1) IN CONTROLLER ENCLOSURE AND DELIVER (1) TO OWNER'S REPRESENTATIVE AFTER APPROVAL OF RECORD DRAWING SUBMITTAL AND PRIOR TO FINAL COMPLETION.
10. CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN TRENCHING AROUND EXISTING TREES AND SHRUBS. CONTRACTOR SHALL HAND TRENCH WHEN TRENCHING ACROSS ROOTS 2" AND LARGER TO PRESERVE ROOT SYSTEM. ROOTS SMALLER THAN 2" MAY BE TRIMMED. DO NOT TEAR ANY ROOTS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE UNDER THIS CONTRACT FOR REPAIRING OR REPLACING, AT THEIR OWN EXPENSE, SURFACE AND SUBSURFACE SITE FEATURES TO REMAIN, INCLUDING BUT NOT LIMITED TO ANY STRUCTURES, FENCES, WALLS, PAVING SURFACES, PLANT MATERIAL AND/OR TREES DAMAGED OR DESTROYED, BOTH ON THIS PROPERTY OR THOSE PROPERTIES ADJACENT TO THIS SITE. THE DAMAGED ITEM(S) WILL BE RESTORED TO THEIR ORIGINAL CONDITION OR REPLACED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
12. REFER TO IRRIGATION DETAILS ON SHEET L-501 AND SPECIFICATION SECTIONS:
    - 01 56 39 TEMPORARY TREE AND PLANT PROTECTION
    - 32 84 00 PLANTING IRRIGATION

IRRIGATION LEGEND

SYM	MODEL	MANUF.	DESCRIPTION	NOZZLE	GPM	PSI	RAD
BUBBLER							
	RZWS-18-25-CV	HUNTER	TREE BUBBLER, (2) PER TREE, INSTALL PER DETAIL	-	0.25	30	-
TURF ROTOR							
	I-40-06-SS-08-90	HUNTER	TURF ROTOR, 6" POP-UP, QUARTER ARC	8	8.4	50	45'
	I-40-06-SS-15-180	HUNTER	TURF ROTOR, 6" POP-UP, HALF ARC	15	13.8	50	54'
	I-40-06-SS-13-F	HUNTER	TURF ROTOR, 6" POP-UP, FULL ARC	13	11.1	50	50'
	I-20-06-SS-BLUE-90	HUNTER	TURF ROTOR, 6" POP-UP, QUARTER ARC	1.5	1.4	35	31'
	I-20-06-SS-BLUE-180	HUNTER	TURF ROTOR, 6" POP-UP, HALF ARC	3.0	2.7	35	36'
	I-20-06-SS-BLUE-360	HUNTER	TURF ROTOR, 6" POP-UP, FULL ARC	5.0	4.5	35	39'
	I-20-06-SS	HUNTER	TURF ROTOR, 6" POP-UP, QUARTER ARC	2.0 LA	1.9	30	27'
	I-20-06-SS	HUNTER	TURF ROTOR, 6" POP-UP, HALF ARC	4.5 LA	3.9	30	32'
TURF SPRAY							
	PROS-12-PRS-40-CV-12A	HUNTER	12' RADIUS 180° ARC SHRUB SPRAY, 12" POP-UP		1.26	30	12'
	PROS-12-PRS-40-CV-17A	HUNTER	17' RADIUS 180° ARC SHRUB SPRAY, 12" POP-UP		2.30	30	17'
SHRUB SPRAY / MP ROTATOR							
	PROS-12-PRS-40-CV-MPSS-530	HUNTER	SIDE STRIP SHRUB SPRAY, 12" POP-UP		0.44	40	5'
	PROS-12-PRS-40-CV-MPLCS-515	HUNTER	LEFT CORNER SHRUB SPRAY, 12" POP-UP		0.22	40	5'
	PROS-12-PRS-40-CV-MPRCS-515	HUNTER	RIGHT CORNER SHRUB SPRAY, 12" POP-UP		0.22	40	5'
	PROS-12-PRS-40-CV-MP800	HUNTER	10' RADIUS 90° ARC SHRUB SPRAY, 12" POP-UP		0.23	40	10'
	PROS-12-PRS-40-CV-MP800	HUNTER	10' RADIUS 180° ARC SHRUB SPRAY, 12" POP-UP		0.42	40	10'
	PROS-12-PRS-40-CV-MP815	HUNTER	15' RADIUS 90° ARC SHRUB SPRAY, 12" POP-UP		0.49	40	15'
	PROS-12-PRS-40-CV-MP815	HUNTER	15' RADIUS 180° ARC SHRUB SPRAY, 12" POP-UP		0.93	40	15'
	PROS-12-PRS-40-CV-MP815	HUNTER	15' RADIUS 360° ARC SHRUB SPRAY, 12" POP-UP		1.87	40	15'
	PROS-12-PRS-40-CV-MP800SR	HUNTER	6' RADIUS 90° ARC SHRUB SPRAY, 12" POP-UP		0.22	40	6'
VALVES							
M	-	-	EXISTING DESIGNATED IRRIGATION WATER METER				
	-	-	EXISTING DOMESTIC BACKFLOW PREVENTER TO REMAIN				
	-	-	EXISTING MASTER CONTROL VALVE				
F	-	-	EXISTING FLOW SENSOR				
	-	-	EXISTING BALL VALVE				
	-	-	EXISTING REMOTE CONTROL VALVE				
	-	-	EXISTING QUICK COUPLER VALVE				
	F-619-RW-SON	NIBCO	IRON BODY GATE VALVE, LINE SIZE, 2.5" AND LARGER				
	-	AQUA	STAINLESS STEEL BALL VALVE, LINE SIZE UP TO AND INCLUDING 2"				
	2160P	GRISWOLD	MASTER CONTROL VALVE, NORMALLY OPEN				
	ICV-W/ ACCU-SYNC-ADJ AND FILTER SENTRY	HUNTER	PRESSURE REGULATING ELECTRONIC REMOTE CONTROL VALVE WITH TWO-WIRE DECODER				
	HQ-5LRC	HUNTER	1" QUICK COUPLER VALVE WITH CAP, 1 KEY AND HOSE SWIVEL FOR EVERY 5 VALVES INSTALLED				
CONTROLS / SENSORS							
	A2C-75D-PP-A2C-LAN-ROAM-KIT	HUNTER	EXTERIOR TWO-WIRE CONTROLLER, PLASTIC PEDESTAL MOUNT, ETHERNET CONNECTION, HAND-HELD REMOTE KIT, COORDINATE DATA AND POWER W/ ELECTRICAL TRADE. 48 STATIONS				
P	-	-	BOOSTER PUMP, ATLAS SERIES FROM PRECISION PUMPING SYSTEMS, 4", 240V, 3-PHASE WITH ENCLOSURE. MODEL# CB##V1C020X00325-065XXXX483ONS-4. COORDINATE WITH PPS REPRESENTATIVE MATT PURDY: (208) 325-5300				
PIPING							
			EXISTING IRRIGATION MAINLINE TO REMAIN				
			PVC MAINLINE, NSF APPROVED, 24" DEPTH; 36" DEPTH UNDER FIRE LANE AND STANDARD PAVING. SIZE PER PLAN. SIZES 1"-3" TO BE SCHEDULE 40. SIZES 4" AND LARGER TO BE CLASS 200 WITH GASKETTED FITTINGS; INSTALL LEEMCO FITTINGS, PER MANUFACTURER RECOMMENDATIONS, ON ALL MAINLINE 2.5" AND LARGER				
			EXISTING TRANSITE IRRIGATION MAINLINE TO BE CAPPED AND ABANDONED IN PLACE OR REMOVED IF NECESSARY FOR THIS WORK				
			SCHEDULE 40 PVC LATERAL LINE, 18" DEPTH, 24" DEPTH UNDER STANDARD PAVING, 36" DEPTH UNDER FIRE LANE. NSF APPROVED, SIZE PER CHART				
			SCH 40 PVC SLEEVES, 2 IN EACH LOCATION, 3" MIN. IN SIZE, 24" DEPTH, 36" DEPTH UNDER FIRE LANE				

IRRIGATION DEMOLITION NOTES:

1. CONTRACTOR SHALL EXECUTE IRRIGATION WORK EXPEDITIOUSLY TO MAINTAIN WATER SERVICE FOR EXISTING TO REMAIN IRRIGATION SYSTEMS LOCATED OUTSIDE OF PROJECT AREA AS REQUIRED TO MAINTAIN PLANT MATERIAL IN A HEALTHY CONDITION.
2. CONTRACTOR SHALL SCHEDULE OR PHASE WORK AS APPROPRIATE WITH GENERAL CONTRACTOR'S OVER-ALL PROJECT SCHEDULING.
3. IRRIGATION CONTRACTOR SHALL INCLUDE IN THEIR BID TO COORDINATE WITH GENERAL CONTRACTOR PRIOR TO DEMOLITION AND GRADING AND MAKE TEMPORARY AND PERMANENT CONNECTIONS AND / OR REPAIRS AS NECESSARY TO MAINTAIN IRRIGATION WATER SERVICE TO IRRIGATION SYSTEMS LOCATED OUTSIDE OF PROJECT AREA AFFECTED BY CONSTRUCTION. CONTRACTOR TO MAINTAIN WATER SUPPLY TO PLANTS AND TURF AT ALL TIMES OR SUPPLY WATER MANUALLY TO MAINTAIN PLANTS AND TURF IN HEALTHY CONDITION THROUGHOUT CONSTRUCTION. DAMAGE TO TURF DUE TO INSUFFICIENT WATER SHALL BE REPAIRED BY INSTALLING NEW SOD.
4. CONTRACTOR SHALL NOTIFY AND COORDINATE WITH CAMPUS LANDSCAPE SUPERVISOR IN ADVANCE OF PLANNED DISRUPTIONS OF IRRIGATION WATER SERVICE.

LATERAL PIPE SIZE CHART, SCH 40 PVC

GALLONS PER MINUTE	PIPE SIZE
0 - 7.99 GPM	3/4"
8 - 12.99 GPM	1"
13 - 22.99 GPM	1-1/4"
23 - 30.99 GPM	1-1/2"
31 - 50.99 GPM	2"
51 - 70.99 GPM	2-1/2"
71 - 110.99 GPM	3"

C = GALLONS PER MINUTE
A = VALVE NUMBER
B = VALVE SIZE
D = DESCRIPTION

A B C D

NORTH

SCALE: 1" = 20'-0"

0' 10' 20' 40'

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SEAL

LICENSED LANDSCAPE ARCHITECT
MELISSA J. HODGES
No. 3676
05/31/2025
Renewal Date
12/07/2023
Date
STATE OF CALIFORNIA

PROJECT

McCLATCHY HIGH SCHOOL ATHLETIC FIELDS REPLACEMENT

3066 FREEPORT BLVD.
SACRAMENTO, CA 95818

CLIENT

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

5735 47TH AVENUE, SACRAMENTO, CA 95824

ISSUED

MARK	DATE	DESCRIPTION
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MANAGEMENT

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TITLE

IRRIGATION PLAN

SHEET

LI101A

ANLA PROJECT NO: 2319

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SEE SHEET LI101A FOR IRRIGATION LEGEND & NOTES

MATCHLINE - SEE SHEET LI101A

MATCHLINE SEE SHEET LI101C

A13 22.82 GPM 1-1/2" SHRUB SPRAY
A14 11.0 GPM 1" TURF ROTOR
A15 44.4 GPM 2" TURF ROTOR
A16 55.5 GPM 2" TURF ROTOR
A17 77.4 GPM 2" TURF ROTOR
A18 63.6 GPM 2" TURF ROTOR
A19 33.3 GPM 1-1/2" TURF ROTOR
A20 55.2 GPM 2" TURF ROTOR
A21 66.6 GPM 2" TURF ROTOR
A22 3.0 GPM 1" TREE BUBBLER
A23 45.34 GPM 2" TURF ROTOR
A24 39.0 GPM 2" TURF ROTOR
A25 85.8 GPM 2" TURF ROTOR
A26 22.5 GPM 1-1/2" TURF ROTOR
A27 85.8 GPM 2" TURF ROTOR
A28 13.63 GPM 1" SHRUB SPRAY
A29 2.5 GPM 1" TREE BUBBLER
A30 7.38 GPM 1" SHRUB SPRAY
A31 23.9 GPM 1-1/2" SHRUB SPRAY
A32 85.8 GPM 2" TURF ROTOR
A33 82.8 GPM 2" TURF ROTOR
A42 33.3 GPM 1-1/2" TURF ROTOR
A46 22.2 GPM 1-1/2" TURF ROTOR
A47 80.4 GPM 2" TURF ROTOR
A48 41.2 GPM 2" TURF ROTOR

RSTRM

NORTH

SCALE: 1" = 20'-0"

0' 10' 20' 40'

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0 1/4" 1/2" 1"

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TITLE

IRRIGATION PLAN

SHEET

LI101B

ANLA PROJECT NO: 2319

SEE SHEET LI101A FOR IRRIGATION LEGEND & NOTES

BIDDING INSTRUCTIONS:
TURF ROTORS AND ASSOCIATED MAINLINES, VALVES, AND LATERALS SHOWN ON THIS SHEET IS TO BE ADDITIVE ALTERNATE #2. BASE BID TO RETROFIT EXISTING TURF ROTOR CIRCUITS AS REQUIRED DUE TO REDUCED LIMITS CAUSED BY NEW ADJACENT FENCES. CONTRACTOR TO INCLUDE IN BASE BID TO INSTALL UP TO (6) NEW ROTORS AND ADJUST THE LOCATION AND NOZZLES FOR AN ADDITIONAL (9) EXISTING ROTORS

MATCHLINE SEE SHEET LI101A

A41 85.8 GPM 2" TURF ROTOR

6"

MATCHLINE - SEE THIS SHEET

MATCHLINE - SEE THIS SHEET

EXISTING TREE TO REMAIN, HAND TRENCH BENEATH CANOPY, TYP.

CBOX

MATCHLINE SEE SHEET LI101B

BIDDING INSTRUCTIONS:
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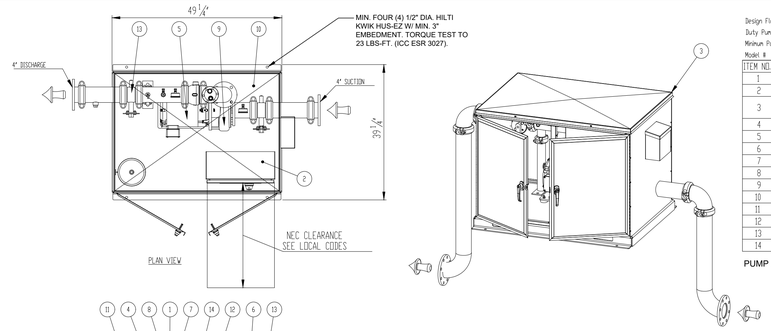
EXISTING TREE TO REMAIN, HAND TRENCH BENEATH CANOPY, TYP.

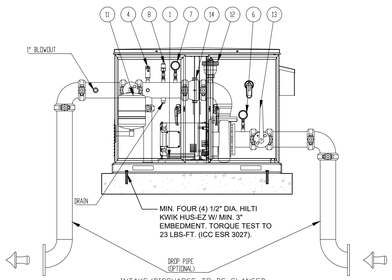
BIDDING INSTRUCTIONS:
TURF ROTORS AND ASSOCIATED MAINLINES, VALVES, AND LATERALS SHOWN ON THIS SHEET TO BE ADDITIVE ALTERNATE #2. BASE BID TO RETROFIT EXISTING TURF ROTOR CIRCUITS AS REQUIRED DUE TO REDUCED LIMITS CAUSED BY NEW ADJACENT FENCES. CONTRACTOR TO INCLUDE IN BASE BID TO INSTALL UP TO (2) NEW ROTORS AND ADJUST THE LOCATION AND NOZZLES FOR AN ADDITIONAL (2) EXISTING ROTORS

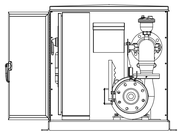
NORTH

SCALE: 1" = 20'-0"

0' 10' 20' 40'






END VIEW

DESIGN SPECIFICATIONS

Design Flow Rate: 325 GPM @ 65 PSI Boost
Duty Pump Details: 20 HP/Pump 325 GPM @ 160 TDH
Minimum Power: 240 Volt / 3 Phase
Model #: CB##V1C020X00325-065XXXXX2430NS-4

ITEM NO.	DESCRIPTION	Size	QTY.
1	BASE, POLY, WHITE, 1/2" THICK 10"X8"		1
2	CONTROL PANEL		1
3	ENCLOSURE, MARINE GRADE ALUMINUM	48"x33"x42"	1
4	FLOW SWITCH	1/2"	1
5	MOTOR, 3600 RPM		1
6	PRESSURE GAUGE, 100PSI	2-1/2"	1
7	PRESSURE GAUGE, 160PSI	2-1/2"	1
8	PRESSURE TRANSDUCER, 200PSI	1/4"	1
9	PUMP, CENTRIFUGAL	20HP	1
10	SKID, BENT	48x33	1
11	TANK, PRESSURE	2 Gal	1
12	VALVE, AIR RELIEF	3/4"	1
13	VALVE, BUTTERFLY, GRODVE, LEVER	4"	2
14	VALVE, CHECK, GRODVED	4"	1

PUMP UNIT IS 850 LBS. MAX WEIGHT

NON-POTABLE
NOT FOR FABRICATION

PPS
PRECISION PUMPING SYSTEMS
6515 BUSINESS WAY
BOISE, IDAHO 83716
208-323-5300
www.ppsbvs.us

REV.	DESCRIPTION	DATE	APVD
	REVISIONS		

MATERIAL: Piping: GALVANIZED Skid: GALVANIZED
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± 1/16" ONE PLACE DECIMAL ± .10 TWO PLACE DECIMAL ± .05 DO NOT SCALE DRAWING
DRAWN | DATE: 1/11/2021

TITLE: BOOSTER SYSTEM PUMP STATION
PROJECT: MCCLATCHY HS
LEVEL:
PART NO: CB##V1C020X00325-065XXXX2430NS-4
JOB | SIZE: B | SCALE: NTS | SHEET: 1 OF 1 | REV —

A BOOSTER PUMP

SCALE: NTS

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SEAL

LICENSED LANDSCAPE ARCHITECT
MELISSA J. NOGUES
No. 3676
Signature
05/31/2025
Renewal Date
12/07/2023
Date
STATE OF CALIFORNIA

PROJECT

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ATHLETIC FIELDS REPLACEMENT

3066 FREEPORT BLVD.
SACRAMENTO, CA 95818

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TITLE

IRRIGATION PLAN

SHEET

LI101C

ANLA PROJECT NO: 2319

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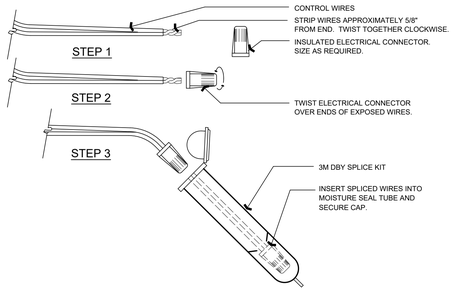
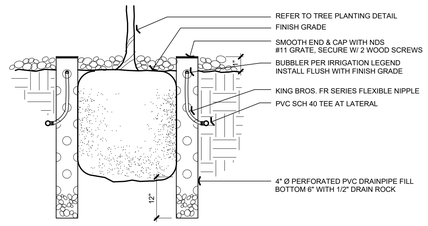
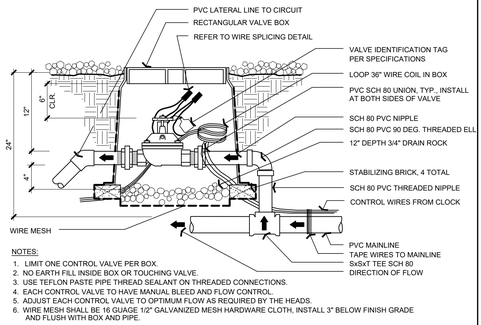


L WIRE SPLICING — SCALE: NTS

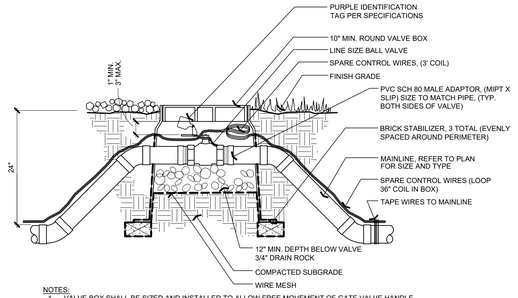


I TREE BUBBLER — SCALE: NTS



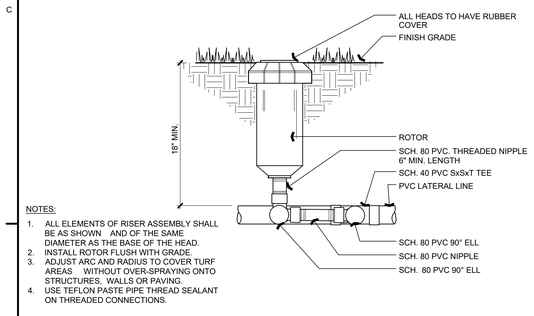
NOTES:
1. LIMIT ONE CONTROL VALVE PER BOX.
2. NO EARTH FILL INSIDE BOX OR TOUCHING VALVE.
3. USE TEFLON PASTE PIPE THREAD SEALANT ON THREADED CONNECTIONS.
4. EACH CONTROL VALVE TO HAVE MANUAL BLEED AND FLOW CONTROL.
5. ADJUST EACH CONTROL VALVE TO OPTIMUM FLOW AS REQUIRED BY THE HEADS.
6. WIRE MESH SHALL BE 16 GUAGE 1/2" GALVANIZED MESH HARDWARE CLOTH, INSTALL 3" BELOW FINISH GRADE AND FLUSH WITH BOX AND PIPE.

F REMOTE CONTROL VALVE — SCALE: NTS



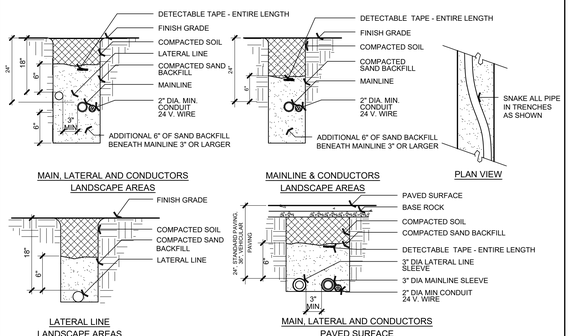
NOTES:
1. VALVE BOX SHALL BE SIZED AND INSTALLED TO ALLOW FREE MOVEMENT OF GATE VALVE HANDLE.
2. CONTRACTOR SHALL RUN SPECIFIED QUANTITY OF SPARE CONTROL WIRES THROUGH EACH GATE BOX AND COIL 3' LOOP FOR FUTURE USE.
3. WIRE MESH SHALL BE 16 GAUGE 1/2" GALVANIZED MESH HARDWIRE CLOTH. INSTALL 3" BELOW GRADE AND FLUSH WITH BOX AND PIPE.

C BALL VALVE — SCALE: NTS



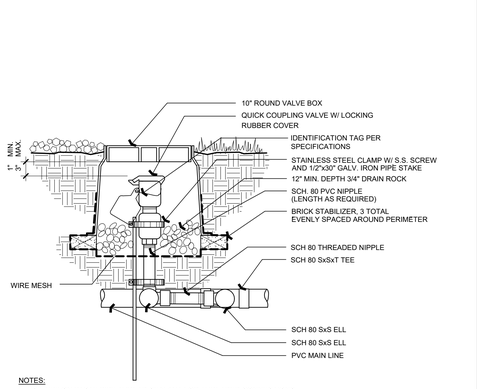
NOTES:
1. ALL ELEMENTS OF RISER ASSEMBLY SHALL BE AS SHOWN AND OF THE SAME DIAMETER AS THE BASE OF THE HEAD.
2. INSTALL ROTOR FLUSH WITH GRADE.
3. ADJUST ARC AND RADIUS TO COVER TURF AREAS WITHOUT OVER-SPRAYING ONTO STRUCTURES, WALLS OR PAVING.
4. USE TEFLON PASTE PIPE THREAD SEALANT ON THREADED CONNECTIONS.

K TURF ROTOR — SCALE: NTS



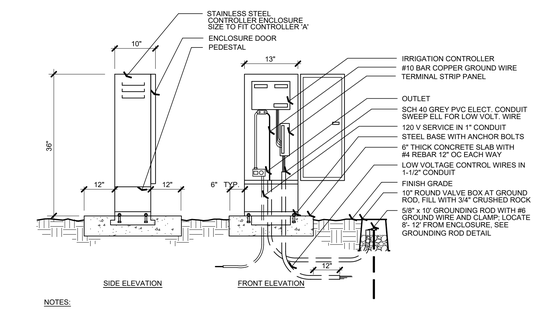
NOTES:
1. TAPE AND BUNDLE CONTROL WIRES AT 10 FOOT INTERVALS.
2. LAY IRRIGATION SUPPLY LINE ON NATIVE SOIL BED. BACKFILL WITH SAND, COMPACT SAND BY FLOODING.
3. PROVIDE SLEEVES FOR ALL LINES AND WIRES BENEATH PAVING.
4. UNDERGROUND UTILITIES WILL NOT BE PLACED UNDER INFLUENCE LINE OF FUTURE/EXISTING FOOTINGS PER PAVED SURFACE SECTION ABOVE.

H TRENCHING — SCALE: NTS



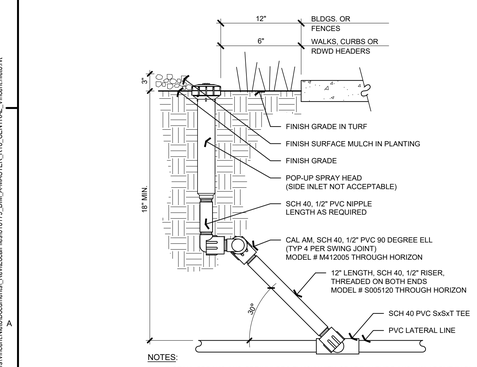
NOTES:
1. USE TEFLON PASTE PIPE THREAD SEALANT FOR THREADED CONNECTIONS

E QUICK COUPLING VALVE — SCALE: NTS



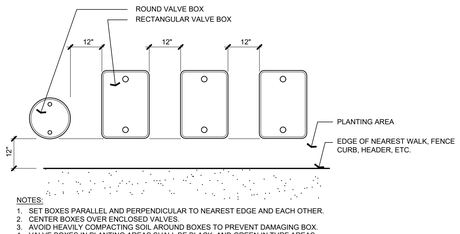
NOTES:
1. INSTALL AND MOUNT CONTROLLER PER MANUFACTURER'S SPECS.
3. COORDINATE WITH MECHANICAL AND ELECTRICAL TRADES.
4. SIZE CONTROL WIRE CONDUIT AS REQUIRED TO ACCOMMODATE QUANTITY OF WIRES FOR CONTROLLER CAPACITY.
5. TOTAL WEIGHT OF ENCLOSURE LESS THAN 20 LBS.

B PEDESTAL MOUNT CONTROLLER — SCALE: NTS



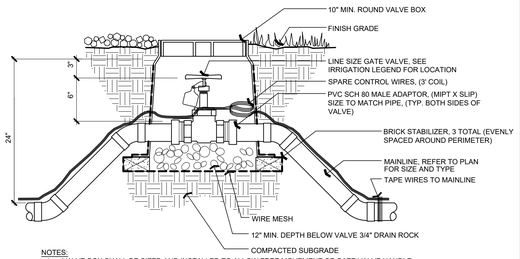
NOTES:
1. INSTALL SPRAYS AND SPRINKLERS FLUSH WITH GRADE IN TURF AND 1/2" ABOVE IN PLANTING.
2. ADJUST ARC AND RADIUS TO COVER PLANT AREAS.
3. ALL THREADED POP-UP SPRAY PARTS SHALL BE TOOL-TIGHTENED.
4. USE TEFLON PAST PIPE THREAD SEALANT ON THREADDED CONNECTIONS.

J POP-UP SPRAY — SCALE: NTS



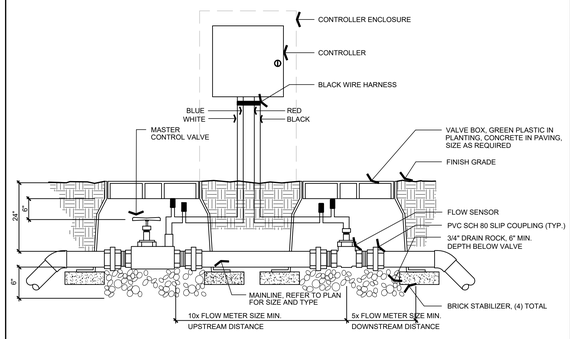
NOTES:
1. SET BOXES PARALLEL AND PERPENDICULAR TO NEAREST EDGE AND EACH OTHER.
2. CENTER BOXES OVER ENCLOSED VALVES.
3. AVOID HEAVILY COMPACTING SOIL AROUND BOXES TO PREVENT DAMAGING BOX.
4. VALVE BOXES IN PLANTING AREAS SHALL BE BLACK, AND GREEN IN TURF AREAS..

G VALVE BOX ALIGNMENT — SCALE: NTS



NOTES:
1. VALVE BOX SHALL BE SIZED AND INSTALLED TO ALLOW FREE MOVEMENT OF GATE VALVE HANDLE.
2. CONTRACTOR SHALL RUN SPECIFIED QUANTITY OF SPARE CONTROL WIRES THROUGH EACH GATE BOX AND COIL 3' LOOP FOR FUTURE USE.
3. WIRE MESH SHALL BE 16 GAUGE 1/2" GALVANIZED MESH HARDWIRE CLOTH. INSTALL 3" BELOW GRADE AND FLUSH WITH BOX AND PIPE.

D GATE VALVE — SCALE: NTS



A MASTER CONTROL VALVE AND FLOW SENSOR — SCALE: NTS

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P 916.558.1900
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SEAL

LICENSED LANDSCAPE ARCHITECT — MELISSA J. HODGES — No. 3676 — Signature — 05/31/2025 Renewal Date — 12/07/2023 Date — STATE OF CALIFORNIA

PROJECT

McCLATCHY HIGH SCHOOL ATHLETIC FIELDS REPLACEMENT

3066 FREEPORT BLVD.
SACRAMENTO, CA 95818

CLIENT

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

5735 47TH AVENUE, SACRAMENTO, CA 95824

ISSUED

MARK	DATE	DESCRIPTION
	08/14/2023	DSA Initial Submittal
	12/7/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

LIONAKIS PROJECT NO: 023040
CLIENT PROJECT NO: 02-121610
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AGENCY

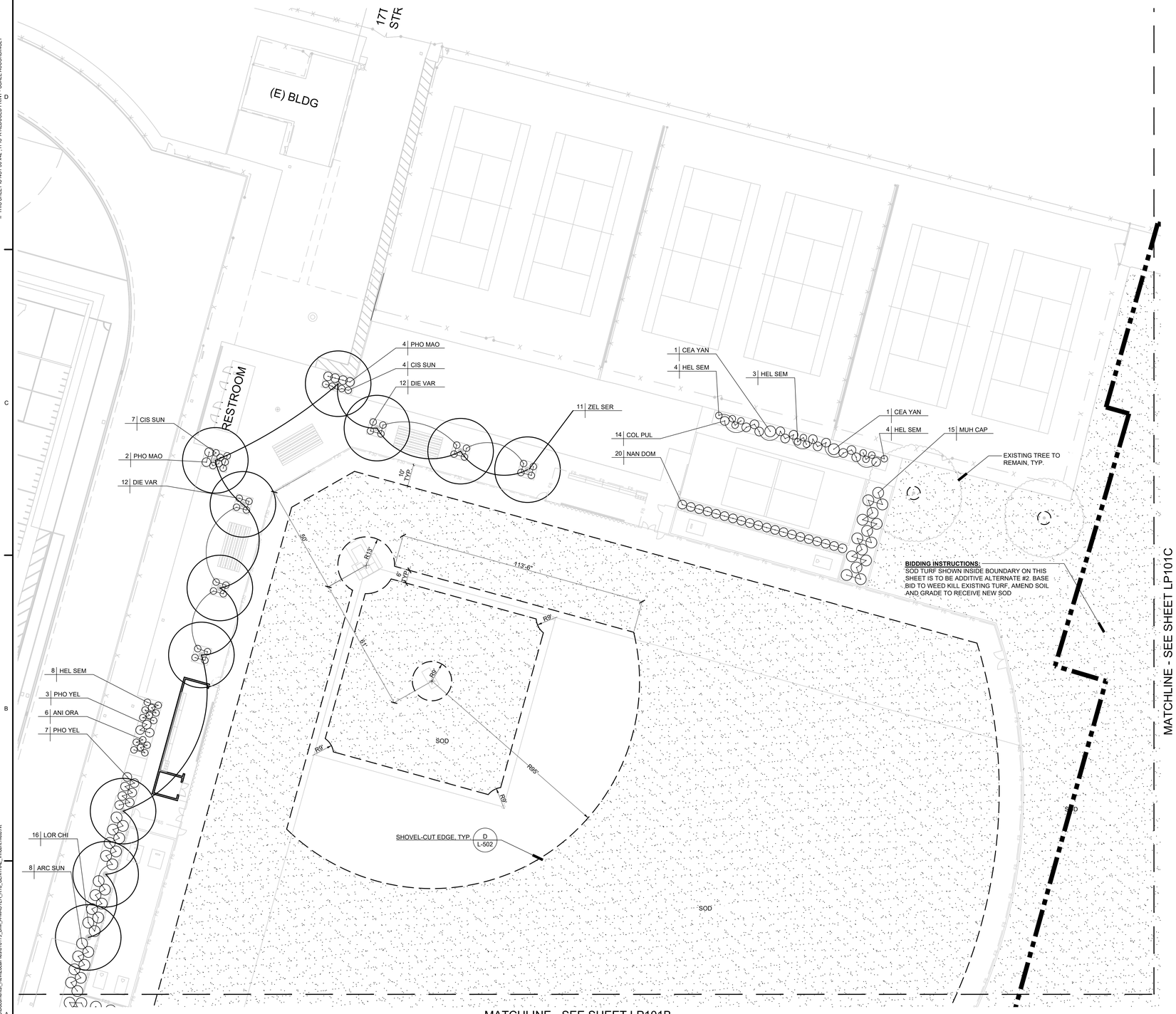
TITLE

IRRIGATION DETAILS

SHEET

L-501

ANLA PROJECT NO: 2319



SEE SHEET LP101B FOR SHADE CALCULATIONS

PLANTING NOTES

1. THESE NOTES ARE FOR GENERAL REFERENCE IN CONJUNCTION WITH, AND AS A SUPPLEMENT TO THE WRITTEN SPECIFICATIONS, DETAILS, ADDENDA AND CHANGE ORDERS ASSOCIATED WITH THE CONTRACT DOCUMENTS.
2. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO INSTALLATION.
3. CONTRACTOR SHALL BECOME FAMILIAR WITH THE LOCATION OF ALL EXISTING AND PROPOSED UNDERGROUND SERVICES AND IMPROVEMENTS WHICH MAY CONFLICT WITH WORK TO BE DONE. CONTACT UNDERGROUND SERVICE ALERT (USA) AT (800) 642-2444 PRIOR TO DIGGING. NOTIFY OWNER IMMEDIATELY SHOULD CONFLICTS ARISE.
4. FINE GRADING, HEADERS AND IRRIGATION COVERAGE SHALL BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO PLANTING OPERATIONS.
5. CONTRACTOR SHALL LAY OUT PLANT MATERIAL PER PLAN AND FACE TO GIVE BEST APPEARANCE OR RELATION TO ADJACENT PLANTS, STRUCTURES OR VIEWS. CONTRACTOR TO OBTAIN APPROVAL FROM OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
6. PLANT MATERIAL SHALL NOT BE INSTALLED IN AN AREA WHICH WILL CAUSE HARM TO ADJACENT STRUCTURES OR OBSTRUCT IRRIGATION SPRAY PATTERN. NOTIFY THE OWNER'S REPRESENTATIVE SHOULD CONFLICTS ARISE.
7. PLANT LOCATIONS ARE DIAGRAMMATIC AND MAY BE ADJUSTED IN THE FIELD AT THE OWNER'S REPRESENTATIVE REQUEST PRIOR TO INSTALLATION. OBTAIN APPROVAL OF PLANT LAYOUT FROM THE OWNER'S REPRESENTATIVE PRIOR TO PLANTING.
8. UNLESS OTHERWISE NOTED, FINISH GRADE OF SHRUB AND GROUND COVER AREAS SHALL BE 2" BELOW ADJACENT PAVING. TAPER 3" DEPTH BARK MULCH TOP DRESSING TO 1/2" BELOW ADJACENT PAVING (1-1/2" DEPTH) WITHIN 2' OF PAVING. FINISH GRADE OF SEEDED TURF AREAS SHALL BE 1/2" BELOW ADJACENT PAVING. FINISH GRADE OF SODDED TURF AREAS SHALL BE 1" BELOW ADJACENT PAVING.
9. PLANTING AREAS SHALL RECEIVE A 3" MIN. DEPTH BARK MULCH TOP DRESSING, UNLESS OTHERWISE NOTED. IN NON-BIORETENTION AREAS BARK MULCH SHALL BE REDI-GRO 'WALK ON BARK' MULCH, IN BIORETENTION AREAS BARK MULCH SHALL BE PACIFIC LANDSCAPE SUPPLY SHREDDED CEDAR BARK MULCH.
10. NEWLY PLANTED MATERIAL SHALL BE THOROUGHLY SOAKED WITH WATER WITHIN 3 HOURS OF PLANTING.
11. EXISTING TREES, SHRUBS AND GROUND COVERS TO REMAIN SHALL BE PROTECTED. ANY DAMAGE CAUSED BY CONTRACTOR'S WORK OR NEGLIGENCE SHALL BE REPLACED OR REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
12. THIRTY DAYS AFTER PLANTING, CONTRACTOR SHALL RE-STAKE AND STRAIGHTEN TREES AS NECESSARY.
13. CONTRACTOR TO COLLECT AND SUBMIT SOIL SAMPLE TO LUCCHESI CONSULTING FOR SOIL AMENDING AND PREPARATION RECOMMENDATION PER SPECIFICATION SECTION 32 90 00.
14. CONTRACTOR SHALL COORDINATE ROUGH GRADING AND FINE GRADING TO ENSURE EXISTING SUITABLE TOPSOIL IS REMOVED, STOCKPILED AND REINSTALLED INTO PROPOSED LANDSCAPE AREAS PER LANDSCAPE SPECIFICATION SECTION 32 90 00. IN THE EVENT THERE IS NOT ENOUGH EXISTING TOPSOIL, OR NO PLACE TO STOCKPILE TOPSOIL, CONTRACTOR SHALL IMPORT AND INSTALL TOPSOIL PER LANDSCAPE SPECIFICATION SECTION 32 90 00.
15. THE CONTRACTOR SHALL BE RESPONSIBLE UNDER THIS CONTRACT FOR REPAIRING OR REPLACING, AT HIS OWN EXPENSE, SURFACE AND SUBSURFACE SITE FEATURES TO REMAIN, INCLUDING BUT NOT LIMITED TO STRUCTURES, FENCES, WALLS, PAVING SURFACES, PLANT MATERIAL AND/OR TREES DAMAGED OR DESTROYED, BOTH ON THIS PROPERTY OR THOSE PROPERTIES ADJACENT TO THIS SITE. THE DAMAGED ITEM(S) WILL BE RESTORED TO THEIR ORIGINAL CONDITION OR REPLACED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
16. REFER TO PLANTING DETAILS ON SHEET L-502, AND SPECIFICATIONS SECTIONS:
    - 31 13 16 TEMPORARY TREE AND PLANT PROTECTION
    - 32 90 00 PLANTING
    - 32 92 00 TURF PLANTING

PLANT LEGEND

SYMBOL	SIZE	BOTANICAL NAME	COMMON NAME	WATER NEEDS*
TREES:				
SEQ SEM	24" BOX	SEQUOIA SEMPERVIRENS	COAST REDWOOD	MOD
ULM PAR	24" BOX	ULMUS PARVIFOLIA 'DRAKE'	DRAKE CHINESE ELM	LOW
ZEL SER	24" BOX	ZELKOVA SERRATA	JAPANESE ZELKOVA	LOW
SHRUBS:				
ANI RED	5 GAL	ANIGOZANTHOS 'BIG RED'	RED KANGAROO PAW	LOW
ANI ORA	5 GAL	ANIGOZANTHOS 'ORANGE'	ORANGE KANGAROO PAW	LOW
ARC SUN	5 GAL	ARCTOSTAPHYLOS 'SUNSET'	SUNSET MANZANITA	LOW
CEA YAN	5 GAL	CEANOTHUS 'YANKEE POINT'	YANKEE POINT CALIFORNIA LILAC	LOW
CIS SUN	1 GAL	CISTUS X 'SUNSET'	SUNSET ROCKROSE	LOW
COL PUL	5 GAL	COLEONEMA PULCHELLUM 'SUNSET GOLD'	PINK BREATH OF HEAVEN	MOD
DIE VAR	5 GAL	DIETES 'VARIEGATA'	VARIEGATED FORTNIGHT LILY	LOW
HEL SEM	1 GAL	HELICTOTRICHON SEMPERVIRENS	BLUE OAT GRASS	MOD
LOR CHI	5 GAL	LOROPETALUM CHINENSIS 'PURPLE MAJESTY'	CHINESE FRINGE FLOWER	MOD
MUH CAP	5 GAL	MUHLENBERGIA CAPILLARIS	PINK MUHLY	LOW
NAN DOM	5 GAL	NANDINA DOMESTICA 'GULF STREAM'	HEAVENLY BAMBOO	LOW
PHO MAO	5 GAL	PHORMIUM 'MAORI MAIDEN'	NEW ZEALAND FLAX	MOD
PHO YEL	5 GAL	PHORMIUM 'YELLOW WAVE'	YELLOW NEW ZEALAND FLAX	MOD
RHA BAL	5 GAL	RHAPHIOLEPIS INDICA 'BALLERINA'	BALLERINA INDIAN HAWTHORN	MOD
SAL LEU	5 GAL	SALVIA LEUCANTHA 'SANTA BARBARA'	MEXICAN BUSH SAGE	LOW

*WATER NEEDS BASED ON: "WATER USE CLASSIFICATION OF LANDSCAPE SPECIES", ZONE 1, UNIVERSITY OF CALIFORNIA COOPERATIVE EXTENSION AND THE DEPARTMENT OF WATER RESOURCES, 2014.

MATERIALS

- SOD, TIFWAY 419 BERMUDA
- BARK MULCH ONLY
- SHOVEL-CUT EDGE TURF

NORTH

SCALE: 1" = 20'-0"

0' 10' 20' 40'

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TITLE

PLANTING PLAN

SHEET

LP101A

ANLA PROJECT NO: 2319

IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY

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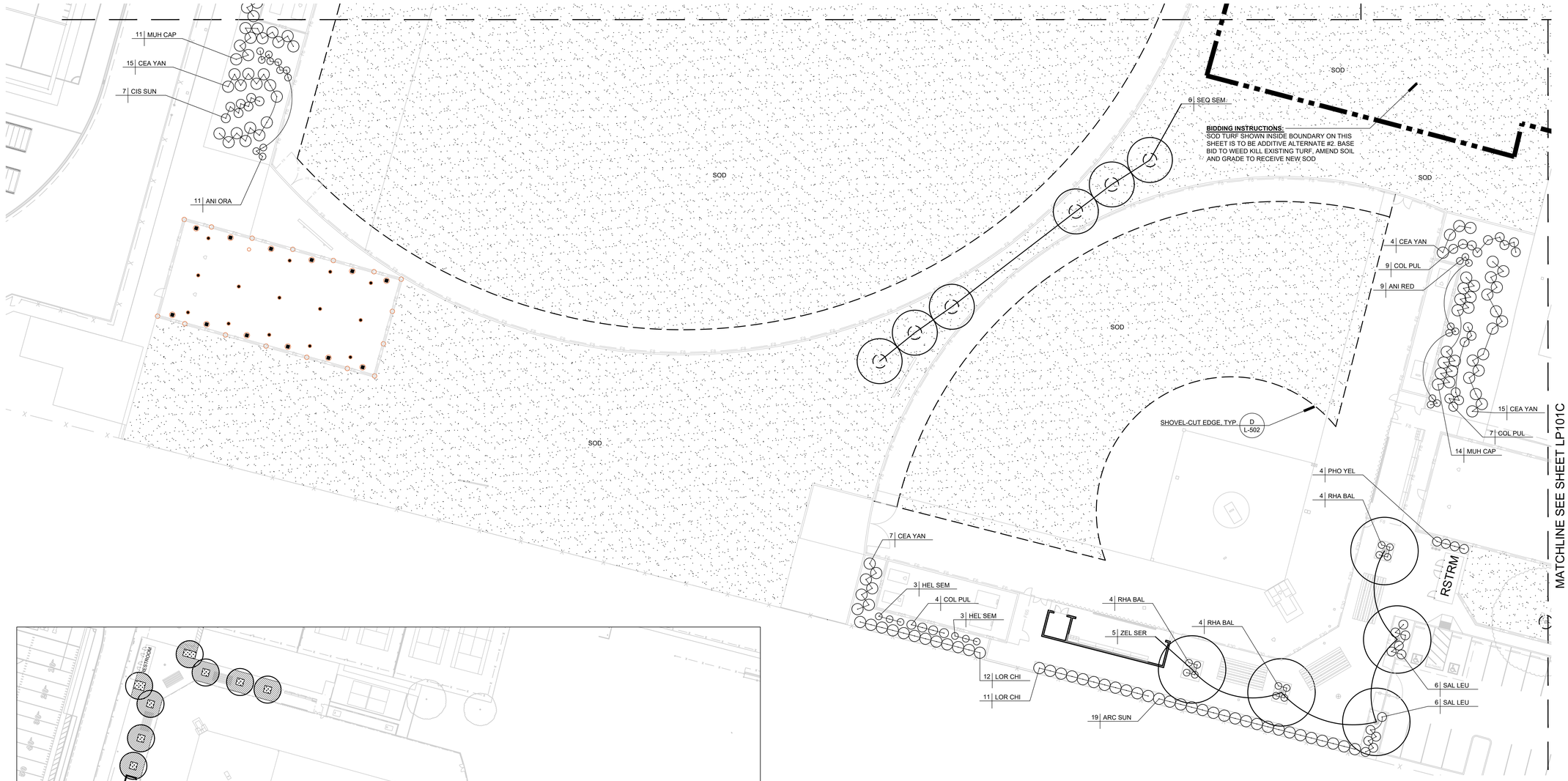
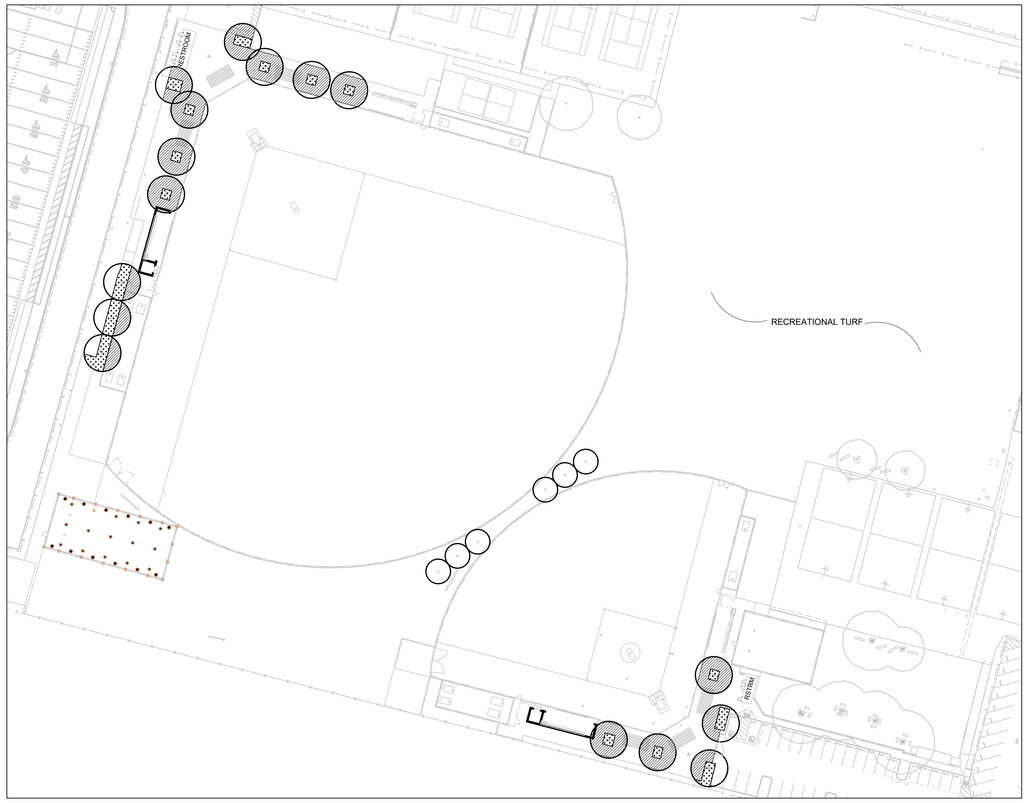
10/17/2018 10:06:50 AM

SEE SHEET LP101A FOR PLANTING LEGEND & NOTES

MATCHLINE - SEE SHEET LP101A





SHADE CALCULATIONS

HARDSCAPE SHADE CALCULATIONS

HARDSCAPE AREA = 19,578 SF.

REQUIRED SHADE = 3,915 SF.
PROVIDED SHADE = 7,404 SF.

NON-RECREATIONAL LANDSCAPE AREA SHADE CALCULATIONS

LANDSCAPE AREA = 7,424 SF.

REQUIRED SHADE = 1,485 SF.
PROVIDED SHADE = 1,930 SF.

NORTH

SCALE: NOT TO SCALE

NORTH

SCALE: 1" = 20'-0"

0' 10' 20' 40'

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TITLE

PLANTING PLAN

SHEET

LP101B

ANLA PROJECT NO: 2319

SEE SHEET LP101A FOR PLANTING LEGEND & NOTES

BIDDING INSTRUCTIONS:
SOD TURF SHOWN INSIDE BOUNDARY ON THIS SHEET IS TO BE ADDITIVE ALTERNATE #2. BASE BID TO WEED KILL EXISTING TURF, AMEND SOIL AND GRADE TO RECEIVE NEW SOD

MATCHLINE SEE SHEET LP101A

SOD

MATCHLINE - SEE THIS SHEET

MATCHLINE - SEE THIS SHEET

SOD

EXISTING TREE TO REMAIN, TYP.

BIDDING INSTRUCTIONS:
SOD TURF SHOWN INSIDE BOUNDARY ON THIS SHEET IS TO BE ADDITIVE ALTERNATE #2. BASE BID TO WEED KILL EXISTING TURF, AMEND SOIL AND GRADE TO RECEIVE NEW SOD

MATCHLINE SEE SHEET LP101B

SOD

NORTH

SCALE: 1" = 20'-0"

0' 10' 20' 40'

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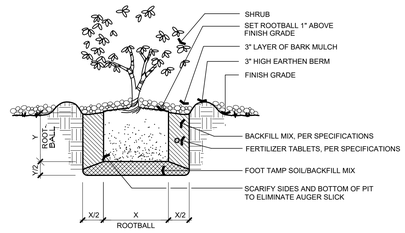
TITLE
PLANTING PLAN

SHEET
LP101C

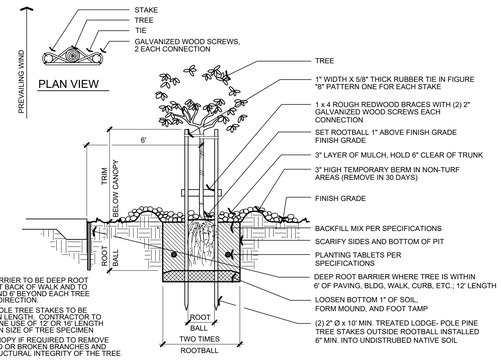
ANLA PROJECT NO: 2319



I

F

C SHRUB PLANTING SCALE: NTS

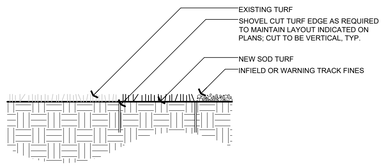


NOTES:
1. ROOT BARRIER TO BE DEEP ROOT UB 15-2 AT BACK OF WALK AND TO TO EXTEND 8' BEYOND EACH TREE IN EACH DIRECTION.
2. LODGE POLE TREE STAKES TO BE 10' MIN. IN LENGTH. CONTRACTOR TO DETERMINE USE OF 12' OR 10' LENGTH BASED ON SIZE OF TREE SPECIMEN
3. TRIM CANOPY IF REQUIRED TO REMOVE DAMAGED OR BROKEN BRANCHES AND FOR STRUCTURAL INTEGRITY OF THE TREE

H

E

B TREE PLANTING SCALE: NTS



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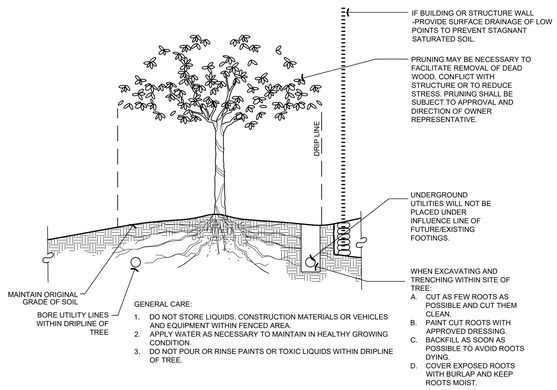
D SHOVEL-CUT EDGE TURF SCALE: NTS



GENERAL CARE:
1. DO NOT STORE LIQUIDS, CONSTRUCTION MATERIALS OR VEHICLES AND EQUIPMENT WITHIN FENCED AREA.
2. APPLY WATER AS NECESSARY TO MAINTAIN IN HEALTHY GROWING CONDITION.
3. DO NOT POUR OR RINSE PAINTS OR TOXIC LIQUIDS WITHIN DRIPLINE OF TREE.

A TREE PROTECTION SCALE: NTS

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PLANTING DETAILS

SHEET

L-502

ANLA PROJECT NO: 2319

STRUCTURAL ABBREVIATIONS LEGEND

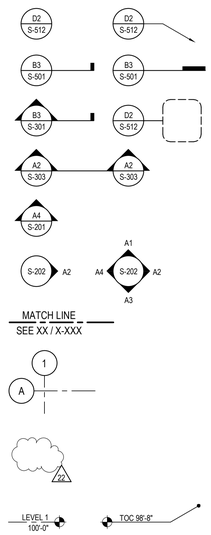
S- 014213. N001A

SEE UNITED STATES NATIONAL CAD STANDARD FOR ANY ABBREVIATIONS NOT LISTED BELOW. SEE BUILDING CODE FOR REFERENCED DESIGN AND MATERIALS SYMBOLS, ACRONYMS & NOTATIONS.

&	AND	IR	INSIDE RADIUS
@	AT	JH	JOIST HANGER
(E)	EXISTING	JT	JOINT
'	FOOT, FEET	L	ANGLE, LONG, LENGTH
"	INCH, INCHES	LL	LIVE LOAD
#	NUMBER, POUND	LLH	LONG LEG HORIZONTAL
A/E	ARCHITECT / ENGINEER	LLV	LONG LEG VERTICAL
AB	ANCHOR BOLT	LONG	LONGITUDINAL
ABV	ABOVE	LS	LAG SCREW
ADDL	ADDITIONAL	LWC	LIGHT WEIGHT CONCRETE
AFF	ABOVE FINISHED FLOOR	MAX	MAXIMUM
AFG	ABOVE FINISHED GRADE	MB	MACHINE BOLT
AFS	ABOVE FINISHED SLAB	MC	MISCELLANEOUS CHANNEL
ALT	ALTERNATE	MCJ	MASONRY CONTROL JOINT
ALUM	ALUMINUM	MDJ	MASONRY DOWEL JOINT
APPROX	APPROXIMATE	MECH	MECHANICAL
ARCH	ARCHITECT	MEJ	MASONRY EXPANSION JOINT
ATR	ALL THREAD ROD	MFR	MANUFACTURER
BFF	BELOW FINISH FLOOR	MIN	MINIMUM
BKG	BACKING	MISC	MISCELLANEOUS
BLDG	BUILDING	MKJ	MASONRY KEY JOINT
BLKG	BLOCKING	MRJ	MASONRY RAKE JOINT
BLW	BELOW	NA	NOT APPLICABLE
BM	BEAM	NF	NEAR FACE
BMU	BRICK MASONRY UNIT	NIC	NOT IN CONTRACT
BN	BOUNDARY NAIL	NTS	NOT TO SCALE
BOS	BOTTOM OF STEEL	NWC	NORMAL WEIGHT CONCRETE
BOT	BOTTOM	O/	OVER
BTWN	BETWEEN	OC	ON CENTER
C	CAMBER, CHANNEL	OD	OUTSIDE DIAMETER
CB	CARRIAGE BOLT	OPH	OPPOSITE HAND
CBC	CALIFORNIA BUILDING CODE	OPNG	OPENING
CFSF	COLD-FORMED STEEL FRAMING	OPP	OPPOSITE
CG	CENTER OF GRAVITY	OR	OUTSIDE RADIUS
CJ	CONSTRUCTION JOINT	PAF	POWER ACTUATED FASTENER
CJP	COMPLETE JOINT PENETRATION	PCC	PRECAST CONCRETE
CL	CENTER LINE	PCF	POUNDS PER CUBIC FOOT
CLR	CLEAR	PJP	PARTIAL JOINT PENETRATION
CMU	CONCRETE MASONRY UNIT	PL	PLATE, PROPERTY LINE
COL	COLUMN	PLF	POUNDS PER LINEAR FOOT
CONC	CONCRETE	PREFAB	PREFABRICATE
CONN	CONNECT, CONNECTION	PSF	POUNDS PER SQUARE FOOT
CONT	CONTINUE, CONTINUOUS	PSI	POUNDS PER SQUARE INCH
CRS	COLD ROLLED STEEL	PTW	PRESERVATIVE TREATED WOOD
CSK	COUNTER SUNK	QTY	QUANTITY
CTR	CENTER	R	RADIUS, RISER
D	PENNY (NAIL), DEEP, DEPTH	REBAR	REINFORCING STEEL BAR
DBL	DOUBLE	REINF	REINFORCE, REINFORCING
DCW	DEMAND CRITICAL WELD	REQ	REQUIRE, REQUIRED
DEG	DEGREE	RND	ROUND
DEMO	DEMOLITION	RO	ROUGH OPENING
DET	DETAIL	RS	ROUGH SAWN
DIA	DIAMETER	RWD	REDWOOD
DIAG	DIAGONAL	S	SPACED, SPACING, SPLICE, STEP
DIM	DIMENSION	SAD	SEE ARCHITECTURAL DRAWINGS
DJ	DOWEL JOINT	SCHED	SCHEDULE
DL	DEAD LOAD	SDST	SELF-DRILLING SELF-TAPPING
DO	DITTO, DO OVER	SE	STRUCTURAL ENGINEER
DOUG FIR	DOUGLAS FIR	SECT	SECTION
DWG	DRAWING	SFRS	SEISMIC FORCE RESISTING SYSTEM
DWL	DOWEL	SHTHG	SHEATHING
EA	EACH	SIM	SIMILAR
EE	EACH END	SJ	SHRINKAGE JOINT
EF	EACH FACE	SL	SNOW LOAD
EJ	EXPANSION JOINT	SP	STRUCTURAL PANEL
EL	ELEVATION	SPEC	SPECIFICATION
ELEC	ELECTRIC, ELECTRICAL	SQ	SQUARE
ELEV	ELEVATOR	SST	STAINLESS STEEL
EMBED	EMBEDMENT	STAG	STAGGERED
EN	EDGE NAIL	STD	STANDARD
EOS	EDGE OF SLAB	STIF	STIFFENER
EQ	EQUAL, EQUALLY	STIR	STIRRUP
ES	EACH SIDE	STL	STEEL
EW	EACH WAY	STRUCT	STRUCTURAL
EXT	EXTERIOR	SYMM	SYMMETRICAL
F/F	FACE TO FACE	T	TREAD, THICKNESS
FA	FRAMING ANGLE	T&B	TOP & BOTTOM
FB	FLAT BAR	T&G	TONGUE & GROOVE
FDTN	FOUNDATION	TFJH	TOP FLANGE JOIST HANGER
FIN	FINISH	THK	THICKNESS
FLG	FLANGE	THRU	THROUGH
FLR	FLOOR	TJ	TOOL JOINT
FMJH	FACE-MOUNT JOIST HANGER	TN	TOE NAIL
FN	FIELD NAIL	TOB	TOP OF BEAM
FOC	FACE OF CONCRETE/CURB	TOC	TOP OF CURB/CONCRETE
FOF	FACE OF FINISH	TOF	TOP OF FRAMING/FOOTING/FLOOR
FOM	FACE OF MASONRY	TOJ	TOP OF JOIST
FOS	FACE OF STUD	TOM	TOP OF MASONRY
FOW	FACE OF WALL	TOP	TOP OF PARAPET
FRMG	FRAMING	TOS	TOP OF STEEL
FRTW	FIRE RETARDANT TREATED WOOD	TOSP	TOP OF STRUCTURAL PANEL
FS	FAR SIDE	TOT	TOP OF TRUSS
FT	FEET, FOOT	TOW	TOP OF WALL
FTG	FOOTING	TS	TUBE STEEL
FURG	FURRING	TYP	TYPICAL
GA	GAGE	UC	UNDERCUT
GALV	GALVANIZED	UNO	UNLESS NOTED OTHERWISE
GLB	GLUED LAMINATED BEAM	UON	UNLESS OTHERWISE NOTED
GR	GRADE	VERT	VERTICAL
H	HIGH, HEIGHT	VIF	VERIFY IN FIELD
HDR	HEADER	VR	VAPOR RETARDER
HGR	HANGER	W	WIDE, WIDTH, WELD, W-SHAPE
HLDN	HOLDDOWN	W/	WITH
HORIZ	HORIZONTAL	W/O	WITHOUT
HS	HIGH STRENGTH	WF	WIDE FLANGE
HSB	HIGH STRENGTH BOLT	WHS	WELDED HEADED STUD
HSS	HOLLOW STRUCTURAL SECTION	WL	WIND LOAD
HT	HEIGHT	WO	WHERE OCCURS
ICC	INTERNATIONAL CODE COUNCIL	WP	WORKING POINT
ID	INSIDE DIAMETER	WT	WEIGHT, W TEE-SHAPE
IJ	ISOLATION JOINT	WTS	WELDED THREADED STUD
INFO	INFORMATION	WWR	WELDED WIRE REINFORCEMENT
INT	INTERIOR	XS	EXTRA STRONG
		XXS	DOUBLE EXTRA STRONG

STRUCTURAL SYMBOLS LEGEND

SN011000-004



DETAIL INDICATOR - REFERENCE & DETAIL INDICATOR - ITEM

DETAIL INDICATOR - SECTION & DETAIL INDICATOR - SECTION ITEM

SECTION INDICATOR - PARTIAL BUILDING/WALL DETAIL INDICATOR - AREA

SECTION INDICATOR - BUILDING

ELEVATION INDICATOR - EXTERIOR

ELEVATION INDICATOR - INTERIOR, SINGLE & MULTIPLE VIEW

MATCH LINE INDICATOR

REFERENCE GRID WITH REFERENCE GRID LINES

REVISION INDICATOR & REVISION CLOUD

ELEVATION INDICATOR - LEVEL & SPOT

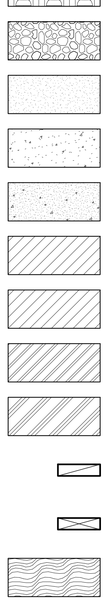
KEYNOTE INDICATOR

PLAN NORTH & TRUE NORTH INDICATOR

MATERIAL SYMBOL LEGEND

S- 011000. N006A

170125. Q2



EARTH

EARTH, COMPACT FILL

EARTH, ROCK

GRAVEL, ROCK FILL

SAND, MORTAR, GROUT

CONCRETE, CAST IN PLACE

CONCRETE, PRE-CAST OR TILT UP

MASONRY, CLAY BRICK

MASONRY, CONCRETE

STEEL

ALUMINUM

WOOD BLOCKING OR SHIM

WOOD FRAMING CONTINUOUS

WOOD

STRUCTURAL GENERAL NOTES

S- 014100. N004A

190626. Q2

1. THE STRUCTURAL NOTES AND TYPICAL DETAILS, WHETHER SPECIFICALLY REFERENCED OR NOT, ARE GENERAL AND APPLY TO ALL CONSTRUCTION DOCUMENTS. PROVIDE ALL STRUCTURAL ELEMENTS INDICATED IN THE STRUCTURAL NOTES AND TYPICAL DETAILS AS REQUIRED TO CONFORM TO THE FINISHED PROJECT AS INDICATED IN OTHER CONSTRUCTION DOCUMENTS. PROVIDE ALL STRUCTURAL ELEMENTS INDICATED IN OTHER CONSTRUCTION DOCUMENTS. STRUCTURAL CONSTRUCTION DOCUMENTS SHALL BE USED IN CONJUNCTION WITH ALL OTHER CONSTRUCTION DOCUMENTS. SEE OTHER CONSTRUCTION DOCUMENTS FOR COMPLETE PROJECT REQUIREMENTS.
2. REFERENCES TO CONSTRUCTION DOCUMENTS ARE TO THE ENFORCEMENT AGENCY APPROVED DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT. SUPPLEMENTAL DOCUMENTS INCLUDING, BUT NOT LIMITED TO, ADDENDA, REVISED DRAWINGS, FIELD INSTRUCTIONS AND MODIFICATIONS PRODUCED FOR THIS PROJECT, SHALL ALSO BE CONSIDERED A CONSTRUCTION DOCUMENT. ALL REQUIREMENTS OF THE INITIALLY APPROVED CONSTRUCTION DOCUMENTS SHALL APPLY TO ANY SUPPLEMENTAL DOCUMENTS.
3. WHERE THE CONSTRUCTION DOCUMENTS INDICATE TO NOTIFY THE STRUCTURAL ENGINEER, SUCH NOTIFICATION SHALL BE SUBMITTED IN WRITING WITH SUFFICIENT ALLOWANCE FOR A REASONABLE TIME PERIOD FOR REVIEW, DESIGN, ENFORCEMENT AGENCY APPROVAL AS REQUIRED AND WRITTEN RESPONSE SO AS NOT TO AFFECT THE CONSTRUCTION SCHEDULE. OBTAIN WRITTEN RESPONSE BEFORE PROCEEDING WITH THE AFFECTED WORK.
4. CAREFULLY EXAMINE THE CONSTRUCTION DOCUMENTS AND NOTIFY THE STRUCTURAL ENGINEER OF ANY CONFLICTS OR DISCREPANCIES WITHIN THE STRUCTURAL CONSTRUCTION DOCUMENTS AND BETWEEN ALL OTHER CONSTRUCTION DOCUMENTS. DEVIATIONS SHALL NOT BE MADE TO THE REQUIREMENTS INDICATED IN THE STRUCTURAL CONSTRUCTION DOCUMENTS.
5. PORTIONS OF THESE CONSTRUCTION DOCUMENTS ARE DIAGRAMMATIC ONLY. ITEMS INCLUDING, BUT NOT LIMITED TO, LOCATIONS, SIZES, QUANTITIES, ACCESSORIES AND CONNECTIONS ARE INDICATED IN A REPRESENTATIONAL MANNER AND MAY NOT BE COMPLETELY SHOWN. PROVIDE ALL WORK AND MATERIALS NECESSARY TO COMPLETE THE PROJECT AS REPRESENTED IN THE CONSTRUCTION DOCUMENTS.
6. DIMENSIONS AND ELEVATIONS INDICATED ARE FOR STRUCTURAL ELEMENTS ONLY. ELEVATIONS SHOWN ARE BASED ON A REFERENCE ELEVATION. COORDINATE REFERENCE ELEVATIONS WITH ACTUAL ELEVATIONS. COORDINATE WITH ALL OTHER CONSTRUCTION DOCUMENTS FOR DIMENSIONS AND ELEVATIONS NOT INDICATED ON THE STRUCTURAL CONSTRUCTION DOCUMENTS. DO NOT SCALE DRAWINGS.
7. CONSTRUCTION SHALL COMPLY WITH ALL BUILDING, HEALTH AND SAFETY STANDARDS, CODES AND REGULATIONS APPLICABLE TO THIS PROJECT. NOTHING IN THE CONSTRUCTION DOCUMENTS SHALL BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE STANDARDS, CODES AND REGULATIONS.
8. REFERENCES TO STANDARDS, CODES AND REGULATIONS INCLUDING, BUT NOT LIMITED TO, ICC, IBC, CBC, ACI, ASTM, ASCE, ANSI, AWS, AISI, AITC AND AISC SHALL BE TO THE LATEST EDITION AS ADOPTED BY THE ENFORCEMENT AGENCY.
9. FEATURES OF CONSTRUCTION INDICATED ARE TYPICAL. WHERE FEATURES ARE NOT FULLY OR SPECIFICALLY INDICATED BY THE CONSTRUCTION DOCUMENTS, THEIR CONSTRUCTION SHALL BE AS INDICATED FOR IDENTICAL OR SIMILAR FEATURES ELSEWHERE IN THE CONSTRUCTION DOCUMENTS. IF ANY CONDITIONS REQUIRE CONSTRUCTION DIFFERENT THAN THAT INDICATED ON THE CONSTRUCTION DOCUMENTS, NOTIFY THE STRUCTURAL ENGINEER.
10. STRUCTURAL ELEMENTS SHALL NOT BE REMOVED OR MODIFIED UNLESS INDICATED IN THE STRUCTURAL CONSTRUCTION DOCUMENTS. IF STRUCTURAL ELEMENTS INTERFERE WITH THE WORK INDICATED IN ANY OTHER CONSTRUCTION DOCUMENTS, NOTIFY THE STRUCTURAL ENGINEER.
11. THE CONSTRUCTION DOCUMENTS AND THE DESIGNS INCORPORATED THEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, ARE NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT.
12. STRUCTURAL ELEMENTS REPRESENTED IN THE CONSTRUCTION DOCUMENTS ARE INDICATED IN THEIR COMPLETED CONFIGURATION. THE CONSTRUCTION DOCUMENTS DO NOT INDICATE MEANS, METHODS OR SEQUENCES OF CONSTRUCTION UNLESS SPECIFICALLY NOTED OTHERWISE. PROVIDE ALL MEASURES NECESSARY AS REQUIRED FOR THE PROTECTION OF LIFE AND PROPERTY AND TO ASSURE THE CORRECT AND ACCURATE STRUCTURE GEOMETRY AND STABILITY DURING CONSTRUCTION. MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, PROVIDING ADEQUATE FORMING, SHORING AND BRACING. MEASURES SHALL REMAIN IN PLACE UNTIL THE STRUCTURAL ELEMENTS AND ALL OTHER STRUCTURAL ELEMENTS USED TO SUPPORT THEM HAVE BEEN COMPLETED AND HAVE ATTAINED THEIR REQUIRED DESIGN STRENGTHS.
13. PROTECT ALL ELEMENTS, WHETHER CONCEALED OR NOT, INCLUDING, BUT NOT LIMITED TO, PROPERTIES, STRUCTURES, FINISHES, STREETS, LANDSCAPING AND UTILITIES ADJACENT TO OR ON THIS SITE DURING THE CONSTRUCTION OF THIS PROJECT. SHOULD DAMAGE OCCUR TO ANY ELEMENTS, THEY SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER. CONTROL ITEMS SUCH AS, BUT NOT LIMITED TO, DUST, DIRT, WATER, FUMES, SMOKE, TRASH, NOISE AND VIBRATION CREATED AS A RESULT OF ANY OPERATIONS DURING CONSTRUCTION IN CONFORMANCE WITH APPLICABLE STANDARDS, CODES AND REGULATIONS.
14. STRUCTURAL DESIGN LOADS, STRENGTHS, CAPACITIES AND CRITERIA INDICATED ON THE CONSTRUCTION DOCUMENTS ARE FOR THE COMPLETED STRUCTURE ONLY. THE USE OF ANY PART OR PARTS OF THE INCOMPLETE OR COMPLETED STRUCTURE FOR THE SUPPORT OF CONSTRUCTION ITEMS INCLUDING, BUT NOT LIMITED TO, OTHER PORTIONS OF THE STRUCTURE, PERSONNEL, MATERIALS AND EQUIPMENT IS LIMITED TO THE SAFE CAPACITY OF THE STRUCTURE AT THE TIME IT IS TO BE USED FOR SUCH SUPPORT. PROVIDE ALL MEASURES NECESSARY AS REQUIRED TO PREVENT OVERLOADING, EXCESSIVE MOVEMENT AND DAMAGE TO ANY PART OR PARTS OF THE STRUCTURE.
15. IF SUBSTITUTIONS ARE REQUESTED FOR STRUCTURAL ELEMENTS INDICATED IN THE CONSTRUCTION DOCUMENTS, NOTIFY THE STRUCTURAL ENGINEER. SUBMIT DATA AND DOCUMENTATION INCLUDING, BUT NOT LIMITED TO, COMPARATIVE QUALITY, SUITABILITY, PERFORMANCE, STRUCTURAL CAPACITY, ICC APPROVAL AND ENFORCEMENT AGENCY ACCEPTABILITY SUBSTANTIATING THE COMPLETE COMPLIANCE OF EACH PROPOSED SUBSTITUTION WITH THE CONSTRUCTION DOCUMENTS. ONLY ONE REQUEST FOR SUBSTITUTION WILL BE ALLOWED FOR EACH STRUCTURAL ELEMENT. SUBSTITUTIONS WILL NOT BE CONSIDERED WHEN SUBMITTALS ARE INCOMPLETE OR ACCEPTANCE WOULD REQUIRE REVISIONS TO THE CONSTRUCTION DOCUMENTS. PROVIDE OWNER REIMBURSEMENT FOR SERVICES REQUIRED TO OBTAIN ENFORCEMENT AGENCY APPROVAL OF SUBSTITUTIONS. IF A PROPOSED SUBSTITUTION SUBMITTAL IS NOT COMPLETE, NOT ACCEPTABLE TO THE STRUCTURAL ENGINEER, OR NOT APPROVED BY THE ENFORCEMENT AGENCY PROVIDE THE SPECIFIED ITEM AS INDICATED IN THE CONSTRUCTION DOCUMENTS. THE STRUCTURAL ENGINEER WILL BE THE SOLE JUDGE OF THE ACCEPTABILITY OF THE PROPOSED SUBSTITUTION VERSUS THE SPECIFIED ITEM. ACCEPTANCE OF A SUBSTITUTION SHALL NOT BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS.
16. SCHEDULES, LEGENDS, ABBREVIATIONS, TYPICAL NOTES AND TYPICAL DETAILS ON THE STRUCTURAL CONSTRUCTION DOCUMENTS MAY REFERENCE STRUCTURAL ELEMENTS OR REQUIREMENTS NOT SPECIFICALLY INDICATED OR REQUIRED ELSEWHERE IN THE CONSTRUCTION DOCUMENTS.
17. THE STRUCTURAL CONSTRUCTION DOCUMENTS ARE NOT COMPLETE AND READY FOR CONSTRUCTION UNTIL THEY ARE APPROVED BY THE ENFORCEMENT AGENCY AND SIGNED BY THE STRUCTURAL ENGINEER.

EXISTING CONSTRUCTION

S- 020000. N001A

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1. CAREFULLY EXAMINE THE CONSTRUCTION DOCUMENTS AND NOTIFY THE STRUCTURAL ENGINEER OF ANY CONFLICTS OR DISCREPANCIES WITHIN THE STRUCTURAL CONSTRUCTION DOCUMENTS AND BETWEEN ALL OTHER CONSTRUCTION DOCUMENTS AND THE EXISTING CONSTRUCTION.
2. EXISTING CONSTRUCTION INDICATED IN THE CONSTRUCTION DOCUMENTS IS BASED UPON INFORMATION SHOWN ON AVAILABLE EXISTING DRAWINGS AND/OR LIMITED VISUAL OBSERVATIONS. THE EXISTING CONSTRUCTION MAY VARY FROM THAT INDICATED ON THE CONSTRUCTION DOCUMENTS. PROVIDE ALL WORK AND MATERIALS NECESSARY TO COMPLETE THE PROJECT AS REPRESENTED IN THE CONSTRUCTION DOCUMENTS.
3. VERIFY ALL DIMENSIONS AND ELEVATIONS OF THE EXISTING CONSTRUCTION PRIOR TO STARTING CONSTRUCTION OR FABRICATION. DO NOT SCALE EXISTING DRAWINGS.
4. PROVIDE AND MAINTAIN A COMPLETE AND LEGIBLE COPY OF THE EXISTING CONSTRUCTION DOCUMENTS AND MAKE THEM AVAILABLE FOR USE ON THE JOB SITE.
5. EXISTING STRUCTURAL ELEMENTS SHALL NOT BE REMOVED OR MODIFIED UNLESS INDICATED IN THE STRUCTURAL CONSTRUCTION DOCUMENTS. IF EXISTING STRUCTURAL ELEMENTS INTERFERE WITH THE WORK INDICATED IN ANY CONSTRUCTION DOCUMENT, OR IF UNCERTAIN THAT AN ELEMENT IS STRUCTURAL, NOTIFY THE STRUCTURAL ENGINEER.
6. PROVIDE ALL MEASURES NECESSARY FOR PROTECTION OF THE EXISTING STRUCTURE AND SITE DURING DEMOLITION AND CONSTRUCTION. MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, PROVIDING ADEQUATE SHORING, BRACING, WEATHER PROTECTION AND DUST PROTECTION. THE REMOVAL OR MODIFICATION OF EXISTING STRUCTURAL ELEMENTS SHALL BE PERFORMED IN A MANNER TO PREVENT DAMAGE TO THOSE ELEMENTS TO REMAIN. SHOULD DAMAGE OCCUR TO ANY EXISTING ELEMENTS, THEY SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
7. EXISTING FOUNDATIONS THAT MAY BE AFFECTED BY ANY EXCAVATIONS REQUIRED FOR THIS PROJECT SHALL BE UNDERPINNED, SHORED OR SUPPORTED ADEQUATELY TO PREVENT SETTLEMENT AND LATERAL MOVEMENT.
8. IF EXISTING STRUCTURAL ELEMENTS NOT INDICATED FOR REPLACEMENT OR REPAIR ARE DISCOVERED TO BE DAMAGED OR DIFFERENT THAN INDICATED ON THE CONSTRUCTION DOCUMENTS, NOTIFY THE STRUCTURAL ENGINEER. SUCH DAMAGE OR DIFFERENCE SHALL INCLUDE, BUT NOT BE LIMITED TO, DRY-ROT, WATER DAMAGE, INSECT DAMAGE, POOR WORKMANSHIP OR FIT-UP, BUCKLING, EXCESSIVE DEFLECTION, SAGGING, TWISTING, WARPING, AND DIFFERENT SIZE, ORIENTATION, GRADE, QUALITY OR MATERIAL.
9. WHEN DRILLING/CORING HOLES AT EXISTING CONCRETE OR MASONRY, DO NOT DAMAGE EXISTING REINFORCING (REBAR OR PRE/POST- TENSIONED STRANDS) UNLESS SPECIFICALLY NOTED OTHERWISE. LOCATE ALL EXISTING REINFORCING AT AFFECTED AREAS USING NON-DESTRUCTIVE MEANS PRIOR TO DRILLING/CORING HOLES. MAINTAIN A MINIMUM CLEARANCE OF TWO INCHES BETWEEN THE REINFORCEMENT AND THE HOLE.
10. WHEN SAW-CUTTING EXISTING STRUCTURAL ELEMENTS, DO NOT OVERCUT. INTERSECTING SAW-CUTS SHALL NOT OVERLAP. SAW-CUTS MAY INTERSECT AT SMALL DIAMETER CORED/DRILLED HOLES. SAW-CUTS SHALL BE TANGENT TO AND SHALL NOT EXTEND BEYOND CORED/DRILLED HOLES. CAREFULLY REMOVE REMAINING MATERIAL TO EDGE OF SAW-CUT LINE.
11. ALL CONSTRUCTION INDICATED IS NEW UNLESS SPECIFICALLY DENOTED AS EXISTING.

STRUCTURAL DESIGN CRITERIA

S- 014100. N003A

170125. Q2

BUILDING CODE: 2022 CBC

ENFORCEMENT AGENCY: DIVISION OF THE STATE ARCHITECT (DSA)

A. VERTICAL DESIGN CRITERIA (UNLESS OTHERWISE SHOWN OR NOTED)

ROOF LIVE LOADS:
- TYP ROOF AREA — 20 PSF (REDUCIBLE)

GROUND SNOW LOAD: 0 PSF

B. LATERAL DESIGN CRITERIA (MAPPED ASCE 7-16)

SEISMIC SITE CRITERIA: SS=0.58, S1 =0.26, SDS=0.514, SD1 =0.355, SITE CLASS: D

BUILDING CRITERIA (CMU DUGOUT):
SEISMIC:
- RISK CATEGORY= II
- IMPORTANCE FACTOR, I=1.00
- SEISMIC DESIGN CATEGORY = D
- SEISMIC FORCE RESISTING SYSTEM: GROUND-SUPPORTED CANTILEVER WALL PER ASCE TABLE 15.4-2
- RESPONSE MODIFICATION FACTOR, R = 1.25
- SEISMIC RESPONSE COEFFICIENT, Cs=0.4W
- ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE
- HORIZONTAL IRREGULARITIES: NONE
- VERTICAL IRREGULARITIES: NONE

WIND:
- ULTIMATE DESIGN WIND SPEED, V(ULT) = 93 MPH
- NOMINAL DESIGN WIND SPEED, V(ASD) = 77 MPH
- RISK CATEGORY = II
- WIND EXPOSURE = C
- GCPI = +/- 0.55
- COMPONENTS AND CLADDING WIND PRESSURES TO BE DETERMINED PER ASCE 7-16

BUILDING CRITERIA (CHAINLINK DUGOUT):
SEISMIC:
- RISK CATEGORY= II
- IMPORTANCE FACTOR, I=1.00
- SEISMIC DESIGN CATEGORY = D
- SEISMIC FORCE RESISTING SYSTEM: STEEL ORDINARY CANTILEVER COLUMN
- RESPONSE MODIFICATION FACTOR, R = 1.25
- SEISMIC RESPONSE COEFFICIENT, Cs=0.41
- ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE
- HORIZONTAL IRREGULARITIES: NONE
- VERTICAL IRREGULARITIES: NONE

WIND:
- ULTIMATE DESIGN WIND SPEED, V(ULT) = 93 MPH
- NOMINAL DESIGN WIND SPEED, V(ASD) = 77 MPH
- RISK CATEGORY = II
- WIND EXPOSURE = C
- GCPI = +/- 0.55
- COMPONENTS AND CLADDING WIND PRESSURES TO BE DETERMINED PER ASCE 7-16

C. SOIL DESIGN CRITERIA

SOIL INFO IS BASED ON GEOTECHNICAL REPORT BY:
UNIVERSAL ENGINEERING SCIENCES / PROJECT NO. 4630.2300087.0016
DATED SEPT 15, 2003

SPREAD FOUNDATIONS:
- ALLOWABLE BEARING PRESSURE:
  DL + LL = 1500 PSF
  DL + LL + LATERAL = 2000 PSF
- ULTIMATE COEFFICIENT OF FRICTION = 0.25
- ULTIMATE PASSIVE PRESSURE = 150 PSF/FT OF DEPTH
- IF FRICTIONAL RESISTANCE AND PASSIVE PRESSURE ARE COMBINED, FRICTION IS REDUCED BY 50%.

PROJECT DIRECTORY

S- 011000. N006A

170125. Q2

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SAC CITY UNIFIED SCHOOL DISTRICT
5735 47TH AVENUE,
SACRAMENTO CA 95824
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EMAIL: ANTHONY-LEA@SCUSD.EDU

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EL DORADO HILLS, CA 95762
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EMAIL: ERIKP@ANLA-ASSOCIATES.COM

ELECTRICAL ENGINEER
THE ENGINEERING ENTERPRISE
1125 HIGH STREET
AUBURN, CA 95603
CONTACT: DANNY McKEVITT
PHONE: 530.886.8586
EMAIL: DMCKEVITT@ENGENT.COM

STRUCTURAL SHEET INDEX

SN011000-001

SHEET NUMBER	SHEET NAME
S-001	GENERAL NOTES
S-011	TYPICAL NOTES
SS401	ENLARGED PLAN - HOME DUGOUT
SS402	ENLARGED PLAN - VISITOR DUGOUT
S-531	DETAILS - TYPICAL CONCRETE
S-541	DETAILS - TYPICAL MASONRY

SHEET COUNT: 6

LIONÄKIS
2025 Nineteenth Street
Sacramento CA 95818
P 916.558.1900
www.lionakis.com

CONSULTANT

SEAL

REGISTERED PROFESSIONAL ENGINEER — KEVIN JAMES A. JOLLY — No. S5133 — STATE OF CALIFORNIA — 12/7/2023

ISSUED

MARK	DATE	DESCRIPTION
	8/17/2023	DSA SUBMITTAL
	12/7/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

LIONAKIS PROJECT NO:	023040
DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	
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PROJECT
MCCLATCHY HIGH SCHOOL
ATHLETIC FIELD RENOVATION

3066 FREEPORT BLVD,
SACRAMENTO, CA 95818

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

425 1ST AVE, SACRAMENTO, CA 95818.

TITLE
GENERAL NOTES

SHEET
S-001

STRUCTURAL SUBMITTALS

S- 013300 N002A
170125. Q2

1. SUBMITTALS INCLUDE, BUT ARE NOT LIMITED TO, SHOP DRAWINGS, FABRICATION DRAWINGS, PLACEMENT DRAWINGS, CALCULATIONS, DESIGNS, TEST DATA, PRODUCT DATA, SAMPLES, CERTIFICATIONS AND REPORTS AS REQUIRED BY THE CONSTRUCTION DOCUMENTS.
2. SUBMITTALS, AS A MINIMUM, SHALL CONSIST OF TWO (2) COPIES OF EACH SHEET.
3. SUBMITTALS SHALL NOT CONTAIN NOR CONSIST OF REPRODUCTIONS OF THE CONSTRUCTION DOCUMENTS. SUBMITTALS CONTAINING REPRODUCTIONS OF ANY PORTION OF THE CONSTRUCTION DOCUMENTS ARE SUBJECT TO REJECTION.
4. EACH SUBMITTAL SHALL HAVE A COVER SHEET IDENTIFYING THE CONTENTS BY SPECIFICATION SECTION AND LISTING EACH ITEM AND SHEET NUMBER. EACH SUBMITTAL SHALL HAVE A UNIQUE IDENTIFICATION NUMBER.
5. PRIOR TO SUBMISSION TO THE STRUCTURAL ENGINEER, STAMP SUBMITTALS INDICATING THEY HAVE BEEN REVIEWED AND APPROVED FOR COMPLETENESS AND CONFORMANCE WITH THE INTENT OF THE CONSTRUCTION DOCUMENTS. SUBMITTALS THAT ARE DETERMINED TO BE INCOMPLETE, IN THE JUDGMENT OF THE STRUCTURAL ENGINEER, WILL BE RETURNED WITHOUT REVIEW SO THEY CAN BE COMPLETED. THE STRUCTURAL ENGINEER SHALL NOT BE REQUIRED TO REVIEW PARTIAL SUBMISSIONS OR THOSE FOR WHICH SUBMISSIONS OF CORRELATED ITEMS HAVE NOT BEEN RECEIVED.
6. PRIOR TO SUBMISSION TO THE STRUCTURAL ENGINEER, THE OWNER'S TESTING LABORATORY SHALL STAMP THE FOLLOWING MARKED SUBMITTALS INDICATING THEY HAVE BEEN REVIEWED AND APPROVED FOR COMPLETENESS AND CONFORMANCE WITH THE INTENT OF THE CONSTRUCTION DOCUMENTS:
   - ☒ CONCRETE MIX DESIGNS AND SUBSTANTIATING TEST DATA
   - ☒ MASONRY GROUT MIX DESIGNS AND SUBSTANTIATING TEST DATA
   - ☒ WELDING PROCEDURE SPECIFICATIONS
7. SUBMITTALS SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER PRIOR TO UTILIZATION, INSTALLATION, FABRICATION OR CONSTRUCTION OF ITEMS CONTAINED WITHIN THE SUBMITTALS.
8. SUBMITTALS SHALL BE DELIVERED TO THE STRUCTURAL ENGINEER TO ALLOW SUFFICIENT TIME, IN THE STRUCTURAL ENGINEER'S JUDGMENT, FOR A REASONABLE PERIOD FOR ADEQUATE REVIEW, ENFORCEMENT AGENCY APPROVAL AS REQUIRED AND RESPONSE SO AS NOT TO AFFECT THE CONSTRUCTION SCHEDULE. ALLOW THE STRUCTURAL ENGINEER THE GREATER SUBMITTAL REVIEW PERIOD OF: TEN (10) WORK DAYS; OR FIVE (5) WORK DAYS FOR EACH 100 SHEETS, OR PORTION THEREOF, FOR EACH SUBMITTAL. SUBMITTAL REVIEW PERIOD COMMENCES THE NEXT WORK DAY AFTER SUBMITTAL RECEIPT BY THE STRUCTURAL ENGINEER. CONCURRENT SUBMITTALS OF MULTIPLE PORTIONS OF THE SAME SUBMITTAL ITEM WILL BE REVIEWED IN THEIR ENTIRETY AS ONE SUBMITTAL SUBJECT TO THE REVIEW PERIOD LIMITATION ABOVE. SCHEDULE SUBMITTAL REVIEWS AND CONSTRUCTION ACCORDINGLY.
9. REVIEW OF SUBMITTALS BY THE STRUCTURAL ENGINEER WILL INCLUDE CHECKING FOR GENERAL CONFORMANCE WITH THE DESIGN CONCEPT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONSTRUCTION DOCUMENTS. IT WILL NOT INCLUDE REVIEW OF THE ACCURACY OR COMPLETENESS OF ITEMS SUCH AS QUANTITIES, DIMENSIONS, WEIGHTS OR GAUGES, FABRICATION PROCESSES, CONSTRUCTION MEANS OR METHODS, COORDINATION WITH THE WORK OF OTHER TRADES, OR CONSTRUCTION SAFETY PRECAUTIONS. REVIEW OF A SPECIFIC ITEM SHALL NOT INDICATE THAT THE STRUCTURAL ENGINEER HAS REVIEWED THE ENTIRE ASSEMBLY OF WHICH THE ITEM IS A COMPONENT. THE STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR ANY DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS NOT BROUGHT TO THE STRUCTURAL ENGINEER'S ATTENTION IN WRITING.
10. SUBMITTALS PROCESSED BY THE STRUCTURAL ENGINEER ARE NOT CHANGE ORDERS.
11. SUBMITTALS THAT WILL REQUIRE ADDITIONAL REVIEW, IN THE STRUCTURAL ENGINEER'S JUDGMENT, WILL BE MARKED "RESUBMIT". THE SUBMITTAL SHALL BE REVISED AND RESUBMITTED FOR RE-REVIEW AND IS SUBJECT TO ALL THE REQUIREMENTS OF THE INITIAL SUBMITTAL. PROVIDE OWNER REIMBURSEMENT FOR STRUCTURAL ENGINEER COSTS INCURRED TO RE-REVIEW SUBMITTALS.
12. SUBMITTALS THAT HAVE BEEN REVIEWED AND RETURNED BY THE STRUCTURAL ENGINEER, REGARDLESS OF MARKINGS ON THE SUBMITTALS, SHALL NOT BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS.
13. THE MINIMUM REQUIRED STRUCTURAL SUBMITTALS INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING MARKED ITEMS:
   - ☐ PILE FABRICATION DRAWINGS AND CALCULATIONS
   - ☒ CONCRETE MIX DESIGNS AND SUBSTANTIATING TEST DATA
   - ☒ CONCRETE REINFORCING PLACEMENT DRAWINGS
   - ☒ CONCRETE PRODUCT CERTIFICATION AND DATA SHEETS
   - ☐ CONCRETE SLAB JOINT LAYOUT
   - ☒ MASONRY REINFORCING PLACEMENT DRAWINGS
   - ☒ MASONRY GROUT MIX DESIGNS AND SUBSTANTIATING TEST DATA
   - ☒ MASONRY MORTAR MIX DESIGNS
   - ☒ MASONRY PRODUCT CERTIFICATION AND DATA SHEETS
   - ☒ STRUCTURAL STEEL SHOP DRAWINGS
   - ☐ STEEL DECK PLACEMENT DRAWINGS AND DATA SHEETS
   - ☒ WELDING PROCEDURE SPECIFICATIONS
   - ☐ METAL-PLATE-CONNECTED WOOD TRUSS PLACEMENT DRAWINGS AND CALCULATIONS
   - ☐ WOOD I-JOIST PLACEMENT DRAWINGS AND CALCULATIONS
   - ☐ METAL WEB WOOD JOIST PLACEMENT DRAWINGS AND CALCULATIONS
   - ☐ GLUED-LAMINATED TIMBER FABRICATION AND PLACEMENT DRAWINGS AND CERTIFICATIONS
   - ☐ PRE-ENGINEERED LUMBER CERTIFICATIONS AND DATASHEETS
   - ☐ OPEN WEB STEEL JOIST PLACEMENT DRAWINGS AND CALCULATIONS
   - ☐ PRE-ENGINEERED STEEL STAIR SHOP DRAWINGS AND CALCULATIONS
   - ☐ COLD-FORMED STEEL FRAMING PRODUCTS, ACCESSORIES, DATA SHEETS AND CALCULATIONS

STRUCTURAL TESTING & INSPECTION

S- 014500 N002A
181002. Q2

1. SPECIAL INSPECTION IS DEFINED AS THE INSPECTION OF THE MATERIALS, INSTALLATION, FABRICATION, ERECTION OR PLACEMENT OF COMPONENTS AND CONNECTIONS REQUIRING SPECIAL EXPERTISE TO ENSURE COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS.
2. THE OWNER SHALL EMPLOY ONE OR MORE SPECIAL INSPECTORS TO PERFORM INSPECTIONS DURING CONSTRUCTION FOR ITEMS NOTED IN DSA FORM 103.
3. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE ENFORCEMENT AGENCY AND THE ARCHITECT/STRUCTURAL ENGINEER, FOR THE INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
4. SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE ENFORCEMENT AGENCY, OWNER, CONTRACTOR AND ARCHITECT/STRUCTURAL ENGINEER. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS OR WAS NOT COMPLETED IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS.
5. DISCREPANCIES IN THE INSPECTED WORK SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THEY ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENFORCEMENT AGENCY, OWNER, CONTRACTOR AND ARCHITECT/STRUCTURAL ENGINEER PRIOR TO THE COMPLETION OF THAT PHASE OF THE WORK.
6. A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED TO THE ENFORCEMENT AGENCY, OWNER, CONTRACTOR AND ARCHITECT/STRUCTURAL ENGINEER AT THE COMPLETION OF THE WORK INCLUDED IN THE CONSTRUCTION DOCUMENTS.
7. SCHEDULE AND COORDINATE ALL STRUCTURAL TESTS AND SPECIAL INSPECTIONS. NOTIFY THE SPECIAL INSPECTOR 48 HOURS MINIMUM PRIOR TO PERFORMING ANY WORK REQUIRING THE SPECIAL INSPECTOR'S PRESENCE. COORDINATE WITH THE SPECIAL INSPECTOR SO THAT THE WORK REQUIRING THE TESTS AND INSPECTIONS NOTED ABOVE IS ACCESSIBLE AND EXPOSED FOR TESTING AND INSPECTION PURPOSES. REMOVE AND/OR REPLACE MATERIALS AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER TO ALLOW TESTS AND INSPECTIONS.

STRUCTURAL OBSERVATION

S- 014500 N001A
170125. Q2

1. STRUCTURAL OBSERVATION IS THE VISUAL OBSERVATION OF THE STRUCTURAL SYSTEM BY THE STRUCTURAL OBSERVER (THE STRUCTURAL ENGINEER OR OWNER'S DESIGNATED REPRESENTATIVE) FOR GENERAL CONFORMANCE TO THE ENFORCEMENT AGENCY APPROVED CONSTRUCTION DOCUMENTS AT SIGNIFICANT CONSTRUCTION STAGES AND AT COMPLETION OF THE STRUCTURAL SYSTEM.
2. STRUCTURAL OBSERVATION DOES NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR THE INSPECTIONS REQUIRED BY THE ENFORCEMENT AGENCY OR BY OTHER SECTIONS OF THE BUILDING CODE. REQUIRED INSPECTIONS DO NOT INCLUDE OR WAIVE THE RESPONSIBILITY FOR STRUCTURAL OBSERVATION.
3. STRUCTURAL OBSERVATION DOES NOT INCLUDE THE SUPERVISION OF CONSTRUCTION FOR PROPER EXECUTION OF THE WORK SHOWN IN THE CONSTRUCTION DOCUMENTS.
4. THE FOLLOWING COMPLETED CONSTRUCTION STAGES MARKED ARE SUBJECT TO STRUCTURAL OBSERVATION IF DEEMED NECESSARY DURING CONSTRUCTION BY THE STRUCTURAL OBSERVER:
   - ☒ FOUNDATION EXCAVATIONS AND REINFORCEMENT PRIOR TO CONCRETE PLACEMENT
   - ☐ FORMWORK CONSTRUCTION AND REINFORCEMENT PRIOR TO CONCRETE PLACEMENT
   - ☐ CONCRETE TILT-UP PANEL INSTALLATION
   - ☐ CONCRETE PRE-CAST ELEMENT PANEL INSTALLATION
   - ☒ MASONRY INSTALLATION AND REINFORCEMENT PRIOR TO GROUT PLACEMENT
   - ☒ STEEL FRAMING ERECTION
   - ☐ STEEL DECK INSTALLATION AND REINFORCEMENT PRIOR TO CONCRETE FILL PLACEMENT
   - ☒ STEEL DECK INSTALLATION ON FRAMING
   - ☐ WOOD FRAMING ERECTION
   - ☐ WOOD STRUCTURAL PANEL INSTALLATION ON FRAMING
   - ☐ WOOD HARDWARE AND CONNECTOR INSTALLATION ON STRUCTURAL FRAMING
   - ☐ COLD-FORMED STEEL FRAMING ERECTION
   - ☐ PRE-FABRICATED STRUCTURAL ELEMENT INSTALLATION
   - ☐ PRIOR TO THE CLOSING OF ANY PHASE
   - ☒ STRUCTURAL SYSTEM COMPLETION
5. NOTIFY THE STRUCTURAL OBSERVER 48 HOURS MINIMUM IN ADVANCE OF THE COMPLETION OF THE ABOVE CONSTRUCTION STAGES TO FACILITATE STRUCTURAL OBSERVATIONS BY THE STRUCTURAL OBSERVER. COORDINATE WITH THE STRUCTURAL OBSERVER SO THAT THE WORK FOR THE CONSTRUCTION STAGES NOTED ABOVE IS ACCESSIBLE AND EXPOSED FOR STRUCTURAL OBSERVATION PURPOSES. REMOVE AND/OR REPLACE MATERIALS AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER TO ALLOW STRUCTURAL OBSERVATION.
6. DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS NOTED DURING STRUCTURAL OBSERVATIONS SHALL BE CORRECTED AT NO ADDITIONAL COST TO THE OWNER.
7. PROVIDE OWNER REIMBURSEMENT FOR DESIGN PROFESSIONAL COSTS INCURRED TO CORRECT DEVIATIONS AND TO MAKE REVISIONS TO THE CONSTRUCTION DOCUMENTS, INCLUDING OBTAINMENT OF ENFORCEMENT AGENCY APPROVAL AS REQUIRED.
8. CORRECTIVE WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE ENFORCEMENT AGENCY APPROVED CONSTRUCTION DOCUMENTS AND THE BUILDING CODE.
9. AT THE COMPLETION OF THE WORK INCLUDED IN THE CONSTRUCTION DOCUMENTS, THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE ENFORCEMENT AGENCY A WRITTEN STATEMENT THAT THE STRUCTURAL OBSERVATIONS HAVE BEEN MADE AND IDENTIFY ANY REPORTED DEFICIENCIES THAT, TO THE BEST OF THE STRUCTURAL OBSERVER'S KNOWLEDGE, HAVE NOT BEEN RESOLVED.

STRUCTURAL STEEL

S- 051200 N001A
220302. Q2

1. THE FABRICATION OF STEEL SHALL BE IN ACCORDANCE WITH AISC SPECIFICATIONS.
2. STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING, UNO ON PLANS:

STEEL PRODUCT	ASTM SPECIFICATION, UNO	COMMENTS
W & WT SHAPES	A992, GRADE 50	Fy = 50ksi
ANGLES	A36	Fy = 36ksi
PLATES & BARS	A36,TYP, UNO	Fy = 36ksi
PIPES	A53, GRADE B	Fy = 35ksi
BOLTS	A307, GRADE A, HEX	Fy = 60ksi
WASHERS	F844	
PLATE WASHERS	A36	Fy = 36ksi
NUTS FOR BOLTS & RODS	A563, HEAVY HEX, GRADE A TYP, UNO	
ANCHOR BOLTS & RODS	F1554, CLASS 2A, S3	
(HEADED OR THREADED & NUTTED)	GRADE 36 TYP, UNO	Fy = 36ksi
ROUND HSS	A500, GRADE C	Fy = 46 ksi
RECT AND SQUARE HSS	A500, GRADE C	Fy = 50 ksi

3. ALL EXPOSED EXTERIOR STEEL & FASTENERS SHALL BE HOT-DIPPED GALVANIZED, UNO.
4. NO BOLTS WITH UPSET THREADS ARE ALLOWED FOR ANY APPLICATION. BOTH SHANK & THREADS SHALL BE THE SAME FULL DIA SPECIFIED.
5. WELDING MATERIALS & PROCEDURES SHALL CONFORM WITH AWS D1.1 AND AWS D1.8 WHERE APPLICABLE. WELD FILLER METAL SHALL HAVE Fy=70ksi.

STEEL DECKING

S- 053100 N001A
230103. Q2

1. STEEL DECKING WORK, MATERIALS, CONSTRUCTION AND QUALITY SHALL BE IN ACCORDANCE WITH THE BUILDING CODE.
2. PRODUCTS SHALL POSSESS CURRENT EVALUATION AGENCY APPROVALS WITH SECTION DIMENSIONS, PROPERTIES AND MATERIALS IN COMPLIANCE WITH THE THE TYPICAL DETAILS. SEE CONSTRUCTION DOCUMENTS FOR STEEL DECK TYPE AND GAGE.
3. WELDING MATERIALS AND PROCEDURES SHALL CONFORM TO AWS D1.3. WELDING TO STRUCTURAL STEEL SHALL ALSO CONFORM TO AWS D1.1. ELECTRODES USED FOR WELDING SHALL HAVE A MINIMUM 60KSI FILLER METAL YIELD STRENGTH.
4. BARE STEEL DECK SHALL BE MANUFACTURED BY:
   - “VERCO" PER IAPMO ER 2018
5. SHEET STEEL ACCESSORIES SHALL BE MANUFACTURED PER A1003 STRUCTURAL WITH G90 COATING PER ASTM A653. MEMBERS 18 GA OR LIGHTER SHALL BE GRADE 33 TYPE H (ST33H), AND 16 GA OR HEAVIER SHALL BE GRADE 50, TYPE H (ST50H). THICKNESS OF SHEET STEEL ACCESSORIES SHALL NOT BE LESS THAN ADJACENT STEEL DECK, UNO.
6. STEEL DECK SHALL BE FABRICATED FROM GALVANIZED SHEET STEEL CONFORMING TO ASTM A653, STRUCTURAL STEEL (SS) DESIGNATION, MINIMUM GRADE AS INDICATED IN EVALUATION AGENCY REPORT.
7. STEEL DECK AND ACCESSORIES SHALL BE GALVANIZED ZINC-COATED IN CONFORMANCE WITH ASTM A653 WITH COATING WEIGHTS AS FOLLOWS UNO:
   STANDARD DECK COATING SHALL BE G60, DECK COATING AT EXTERIOR PERMANENTLY EXPOSED LOCATIONS SHALL BE G90, DECK COATING IN MARINE ENVIRONMENTS SHALL BE G185.
8. STEEL DECK SHALL BE CONTINUOUS OVER MULTIPLE SPANS WHERE FRAMING PERMITS. LAYOUT STEEL DECK TO PROVIDE TWO SPANS MINIMUM.
9. STEEL DECK SHALL BE INSTALLED WITH A MINIMUM INTERMEDIATE AND END BEARING OF 2” OVER STRUCTURAL SUPPORTS. STEEL DECK SPLICES SHALL BE BUTTED WITH RIBS ALIGNED, UNO. BARE STEEL DECK MAY BE LAP SPLICED WITH A MINIMUM LAP OF 2" PROVIDED THE DECK ENDS ARE DIE SET, UNO.
10. ARC SPOT WELDS SHALL HAVE A MINIMUM 1/2” DIAMETER EFFECTIVE SIZE. ARC SPOT WELD MINIMUM DECK EDGE DISTANCE SHALL BE 1.5 TIMES THE VISIBLE WELD DIAMETER MEASURED FROM THE CENTER OF THE WELD.
11. ARC SEAM WELDS MAY BE SUBSTITUTED FOR ARC SPOT WELDS. ARC SEAM WELDS SHALL HAVE A MINIMUM 3/8” WIDE BY 1” LONG EFFECTIVE SIZE. ARC SEAM WELD MINIMUM DECK EDGE DISTANCE SHALL BE 1.5 TIMES THE VISIBLE WELD DIAMETER MEASURED FROM THE LONGITUDINAL AXIS OR FROM THE CENTER OF THE END RADIUS OF THE WELD.
12. THE MINIMUM CLEAR DISTANCE BETWEEN ADJACENT WELDS AND BETWEEN A WELD AND THE DECK EDGE SHALL BE NO LESS THAN THE VISIBLE WELD DIAMETER.
13. FILLET WELDS SHALL HAVE A MINIMUM LEG SIZE EQUAL TO THE THICKNESS OF THE THINNEST SHEET STEEL BEING ATTACHED. FILLET WELDS SHALL HAVE A MINIMUM LENGTH OF 3/4”.
14. FLARE GROOVE WELDS SHALL HAVE A MINIMUM WELD THROAT SIZE EQUAL TO THE THICKNESS OF THE THINNEST SHEET STEEL BEING ATTACHED. FLARE GROOVE WELDS SHALL HAVE A MINIMUM LENGTH OF 3/4”.
15. STEEL DECK PANELS AT CANTILEVERED CONDITIONS AND AT PARTIAL WIDTH PANELS SHALL HAVE CONNECTIONS FOR THE ENTIRE LENGTH OF THE DECK PANEL AS FOLLOWS: CONNECTIONS TO EACH STRUCTURAL SUPPORT AT EACH LOW FLUTE AND SIDE SEAM CONNECTIONS AT ENDS AND 12” ON CENTER MAXIMUM.
16. ACCESSORIES SHALL BE FASTENED TO SUPPORTING STEEL DECK AND STRUCTURAL MEMBERS BY CONNECTIONS SPACED AT 12” MAXIMUM ON CENTER AND AT EACH END.
17. PROVIDE EDGE FORMS, FLASHING, CLOSURE PLATES, AND SUPPLEMENTARY SUPPORTS FOR DECK EDGES AT BUILDING PERIMETER, AT OPENINGS AND AT PENETRATIONS THROUGH DECK.

FOUNDATION AND EARTHWORK

S- 033000 N003A
170125. Q2

1. ALL FOUNDATION AND EARTHWORK INCLUDING, BUT NOT LIMITED TO, EXCAVATION, GRADING, FILLING, SUB-GRADE PREPARATION, SOIL TREATMENT, ASSOCIATED SITE WORK, TRENCHING AND BACKFILLING SHALL BE PERFORMED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.
2. THE GEOTECHNICAL INFORMATION PROVIDED IS BASED UPON THE MINIMUM "PRESUMPTIVE LOAD-BEARING VALUES OF SOILS" CONTAINED IN THE BUILDING CODE.
3. THE GEOTECHNICAL INFORMATION PROVIDED IS NOT A WARRANTY OF THE SITE OR SUBSURFACE CONDITIONS. PRIOR TO BIDDING AND AT NO COST TO THE OWNER, SITE VISITS TO INVESTIGATE OR TO PERFORM ADDITIONAL SUBSURFACE INVESTIGATIONS MAY BE MADE TO DETERMINE THE EXISTING CONDITIONS. SUCH INVESTIGATIONS MAY BE PERFORMED ONLY UNDER TIME SCHEDULES AND ARRANGEMENTS APPROVED BY THE OWNER IN ADVANCE.
4. AN OWNER-RETAINED SPECIAL INSPECTOR/GEOTECHNICAL ENGINEER SHALL PROVIDE TESTING AND INSPECTION SERVICES DURING ALL FOUNDATION AND EARTHWORK. PRIOR TO REQUESTING AN ENFORCEMENT AGENCY FOUNDATION INSPECTION, OBTAIN WRITTEN DOCUMENTATION FROM THE SPECIAL INSPECTOR/GEOTECHNICAL ENGINEER THAT THE FOUNDATION AND EARTHWORK IS IN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS.
5. NOTIFY THE SPECIAL INSPECTOR/GEOTECHNICAL ENGINEER 48 HOURS IN ADVANCE OF THE TIME WHEN THE FOUNDATION EXCAVATIONS AND EARTHWORK WILL BE COMPLETE AND READY FOR FORMS OR REINFORCING PLACEMENT. NO FORMS OR REINFORCING SHALL BE PLACED IN ANY FOUNDATION UNTIL THE EXCAVATION HAS BEEN INSPECTED AND APPROVED BY THE SPECIAL INSPECTOR/GEOTECHNICAL ENGINEER.
6. FOUNDATIONS SHALL EXTEND INTO FIRM BEARING IN UNDISTURBED SOIL, OR WHERE REQUIRED, IN COMPACTED FILL MATERIAL OR CONTROLLED LOW-STRENGTH MATERIAL PER THE CONSTRUCTION DOCUMENTS. FOUNDATION DEPTHS SHOWN ON THE CONSTRUCTION DOCUMENTS ARE MINIMUM DEPTHS ONLY. FOUNDATION EXCAVATIONS MAY BE REQUIRED TO BE OVER-EXCAVATED TO REACH SUITABLE BEARING MATERIAL. WHERE THE SPECIAL INSPECTOR/GEOTECHNICAL ENGINEER HAS DETERMINED OVER-EXCAVATION IS REQUIRED, THE REMOVED MATERIAL MAY BE REPLACED WITH COMPACTED FILL MATERIAL OR CONTROLLED LOW-STRENGTH MATERIAL PER THE CONSTRUCTION DOCUMENTS.
7. FOUNDATIONS BELOW GRADE SHALL BE FORMED UNLESS WRITTEN DOCUMENTATION PERMITTING UNFORMED FOOTINGS IS OBTAINED FROM THE SPECIAL INSPECTOR/GEOTECHNICAL ENGINEER. FORWARD WRITTEN DOCUMENTATION TO THE STRUCTURAL ENGINEER FOR REVIEW PRIOR TO THE START OF FOUNDATION EXCAVATIONS. THE SIDES OF UNFORMED FOUNDATION EXCAVATIONS MUST BE ABLE TO STAND WITHOUT CAVING OR SLOUGHING. PROVIDE FORMS OR PROTECTION AS REQUIRED TO PREVENT SLOUGHING OF SOIL INTO EXCAVATIONS. WHERE UNFORMED FOUNDATIONS ARE USED, COORDINATE AND COMPLY WITH THE CONCRETE PROTECTION REQUIREMENTS FOR REINFORCEMENT PLACED ADJACENT TO EARTH. FOUNDATIONS ABOVE GRADE SHALL BE FORMED. ALL FORMS SHALL BE REMOVED ABOVE OR BELOW GRADE, UNLESS OTHERWISE NOTED.
8. THE TOP SURFACE OF FOUNDATIONS SHALL BE LEVEL. THE BOTTOM SURFACE OF FOUNDATIONS IS PERMITTED TO HAVE A SLOPE NOT EXCEEDING ONE UNIT VERTICAL IN TEN UNITS HORIZONTAL. FOOTINGS SHALL BE STEPPED WHERE IT IS NECESSARY TO CHANGE THE ELEVATION OF THE TOP SURFACE OF THE FOOTING OR WHERE THE SURFACE OF THE GROUND AND/OR BOTTOM SURFACE OF THE FOOTINGS SLOPES MORE THAN ONE UNIT VERTICAL IN TEN UNITS HORIZONTAL. STEP FOOTINGS AS REQUIRED PER TYPICAL DETAILS.
9. THE TOP OF EXTERIOR FOOTINGS SHALL BE LOCATED 4 INCHES MINIMUM BELOW LOWEST ADJACENT EXTERIOR FINISHED GRADE OR SURFACE, UNLESS OTHERWISE NOTED. WHERE ADJACENT EXTERIOR FINISHED GRADE OR SURFACE SLOPES DOWN AND AWAY FROM THE FOUNDATION, THE TOP OF EXTERIOR FOOTINGS SHALL BE NO HIGHER THAN THE ELEVATION OF THE FINISHED GRADE OR SURFACE LOCATED 18 INCHES FROM THE FACE OF SUCH FOOTING, UNLESS OTHERWISE NOTED. STEP FOOTINGS AS REQUIRED PER TYPICAL DETAILS TO OBTAIN THE MINIMUM DIMENSIONS REQUIRED.
10. FOUNDATION DEPTHS SHOWN ON THE CONSTRUCTION DOCUMENTS ARE MINIMUM DEPTHS ONLY AND DO NOT NECESSARILY ACCOUNT FOR ALL PIPES, CONDUITS, UTILITIES AND TRENCHES ADJACENT TO OR CROSSING FOOTINGS AS REQUIRED BY ALL OTHER CONSTRUCTION DOCUMENTS. STEP FOOTINGS TO COMPLY WITH THE REQUIREMENTS OF TYPICAL DETAILS FOR PIPES AND CONDUITS AT FOOTINGS.
11. FOR DAMP-PROOFING, WATER-PROOFING AND DRAINAGE SYSTEMS ADJACENT TO FOUNDATIONS, SEE ALL OTHER CONSTRUCTION DOCUMENTS.
12. FOUNDATION ELEMENTS SHOWN ARE INDICATED IN THEIR COMPLETED LOCATION AND CONDITION. FILL AROUND FOUNDATION ELEMENTS SHALL BE PLACED IN LIFTS AND COMPACTED IN A MANNER THAT DOES NOT DAMAGE OR MOVE THE FOUNDATION, WATER-PROOFING OR DAMP-PROOFING. SHORE AND ADEQUATELY SUPPORT FOUNDATION ELEMENTS WHILE PLACING FILL UNTIL THE FOUNDATION ELEMENTS AND THEIR SUPPORTING STRUCTURAL ELEMENTS HAVE BEEN COMPLETED AND ATTAINED THEIR REQUIRED DESIGN STRENGTHS.
13. FOUNDATION EXCAVATIONS SHALL BE CLEANED OF DEBRIS, LOOSE SOIL AND STANDING WATER DURING CONSTRUCTION AND IMMEDIATELY PRIOR TO CONCRETE PLACEMENT. PROVIDE FOR DE-WATERING IF WATER IS PRESENT IN THE EXCAVATIONS DUE TO ANY SOURCE.
14. FOUNDATION EXCAVATIONS SHALL BE MADE TO THE SIZES AND SHAPES REQUIRED BY THE CONSTRUCTION DOCUMENTS. NO MATERIAL IS TO BE EXCAVATED UNNECESSARILY.
15. EXTERIOR FINISHED GRADES OR SURFACES SHALL HAVE POSITIVE DRAINAGE AWAY FROM FOUNDATIONS. GROUND SURFACES WITHIN TEN FEET OF THE BUILDING FOUNDATION SHALL BE SLOPED A MINIMUM OF 5%. PAVED SURFACES WITHIN TEN FEET OF THE BUILDING FOUNDATION SHALL BE SLOPED A MINIMUM OF 2%. PLANTERS SHALL HAVE ADEQUATE SURFACE DRAINAGE TO PREVENT STANDING WATER ADJACENT TO THE FOUNDATIONS.
16. WHERE EXCAVATIONS OCCUR ADJACENT TO EXISTING STRUCTURES, PROVIDE ADEQUATE UNDERPINNING, SHORING OR SUPPORT TO PREVENT SETTLEMENT AND LATERAL MOVEMENT OF THE EXISTING FOUNDATIONS. FOUNDATIONS ADJACENT TO EXISTING FOUNDATIONS SHALL PENETRATE A MINIMUM OF THE SAME DEPTH AS EXISTING, UNLESS OTHERWISE NOTED.
17. FOUNDATION SIZES SHALL BE AS REQUIRED ON THE CONSTRUCTION DOCUMENTS. THE MINIMUM DEPTH NOTED SHALL BE BELOW THE ADJACENT UNDISTURBED GROUND SURFACE. THE MINIMUM DEPTH SHALL ALSO EXTEND BELOW THE FROST LINE OF THE LOCALITY. FOOTINGS SHALL NOT BEAR ON FROZEN SOIL.

REINFORCED MASONRY

S- 042200 N001A
190805. Q2

1. MASONRY WORK, MATERIALS, CONSTRUCTION, AND QUALITY SHALL COMPLY WITH THE REQUIREMENTS OF THE BUILDING CODE, TMS 402 AND TMS 602.
2. COMPLETED MASONRY ASSEMBLIES SHALL ATTAIN A 28 DAY COMPRESSIVE STRENGTH (F’M) OF 2,000 PSI MINIMUM. COMPRESSIVE STRENGTH SHALL BE VERIFIED BY THE UNIT STRENGTH METHOD.
3. HOLLOW AND SOLID CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 WITH A MAXIMUM OVEN DRY DENSITY OF 135 PCF. UNITS SHALL HAVE A NET AREA COMPRESSIVE STRENGTH OF 2,000 PSI MINIMUM.
4. MORTAR SHALL CONFORM TO ASTM C270-TYPE S.
5. MASONRY UNITS AND MORTAR SHALL CONFORM TO THE COLOR AND STYLE SPECIFIED BY THE ARCHITECT.
6. GROUT SHALL CONFORM TO ASTM C476 OR BE PROPORTIONED TO ATTAIN A 28 DAY COMPRESSIVE STRENGTH OF 2,000 PSI MINIMUM AS TESTED PER ASTM C1019. THOROUGHLY MIX GROUT MATERIALS AND WATER TO PROVIDE ADEQUATE FLUIDITY FOR PLACEMENT WITHOUT SEGREGATION OR SEPARATION. MIX GROUT TO A CONSISTENCY THAT HAS A SLUMP BETWEEN 8 AND 11 INCHES. GROUT PROVIDED FOR POURS OVER 4’-0” IN HEIGHT SHALL CONTAIN AN ADMIXTURE OF THE TYPE THAT REDUCES EARLY WATER LOSS TO THE MASONRY UNITS AND PRODUCES AN EXPANSIVE ACTION IN THE PLASTIC GROUT SUFFICIENT TO OFFSET INITIAL SHRINKAGE AND PROMOTE BONDING OF THE GROUT TO ALL INTERIOR SURFACES OF THE MASONRY UNITS.
7. ADDITIVES AND ADMIXTURES SHALL NOT BE USED FOR MORTAR OR GROUT UNLESS ACCEPTABLE TO THE ENFORCEMENT AGENCY. ADDITIVES AND ADMIXTURES SHALL BE USED IN ACCORDANCE WITH MANUFACTURER’S INSTRUCTIONS AND EVALUATION REPORTS. EVALUATION REPORTS SHALL HAVE A CURRENT AND VALID LISTING ISSUED BY AN ACCEPTABLE EVALUATION AGENCY. ANTI-FREEZE OR AIR ENTRAINMENT SUBSTANCES SHALL NOT BE USED.
8. REINFORCING BARS SHALL CONFORM TO ASTM A615-GRADE 60 OR ASTM A706-GRADE 60. THE ACTUAL YIELD STRENGTH BASED ON MILL TESTS SHALL NOT EXCEED 1.3 TIMES THE SPECIFIED YIELD STRENGTH.
9. JOINT REINFORCEMENT SHALL CONFORM TO ASTM A951.
10. WIRE TIES/ANCHORS SHALL CONFORM TO ASTM A82.
11. SHEET METAL ANCHORS/TIES SHALL CONFORM TO ASTM A1008.
12. JOINT REINFORCEMENT, WIRE TIES/ANCHORS, AND SHEET METAL ANCHORS/TIES SHALL BE HOT-DIP GALVANIZED TO CONFORM TO ASTM A153.
13. ANCHOR BOLTS SHALL HAVE HEX HEADS AND CONFORM TO ASTM A307-GRADE A OR ASTM F1554-GRADE 36. ANCHOR RODS SHALL CONFORM TO ASTM F1554-GRADE 36 OR ASTM A36 WITH THREADED ENDS AND DOUBLE NUTS AT THE ANCHORED END. NUTS FOR BOLTS OR RODS SHALL CONFORM TO ASTM A563-GRADE A-HEX.
14. ROUGHEN CONCRETE BEARING SURFACES BY EXPOSING CLEAN AGGREGATE SOLIDLY EMBEDDED IN THE CEMENT MATRIX. BEFORE PLACING MASONRY UNITS CLEAN BEARING SURFACES AND HORIZONTAL CONSTRUCTION JOINTS OF ALL LOOSE MATERIAL, DEBRIS AND MORTAR DROPPINGS.
15. HOLLOW-UNIT MASONRY SHALL BE BUILT TO MAINTAIN THE CLEAR AND UNOBSTRUCTED CONTINUITY OF THE VERTICAL AND HORIZONTAL CELLS TO BE GROUTED. USE TWO-CORE SINGLE OPEN END UNITS ARRANGED SO THAT CLOSED ENDS OF ADJACENT UNITS DO NOT ABUT UNO. WHERE STACK BOND PATTERN IS NOTED, USE TWO-CORE DOUBLE OPEN END UNITS.
16. MULTI-WYTHE MASONRY SHALL BE BUILT WITH SOLID UNITS IN THE OUTER WYTHES TO MAINTAIN THE CLEAR AND UNOBSTRUCTED CONTINUITY OF THE SPACE TO BE GROUTED. THE TWO WYTHES SHALL BE BONDED TOGETHER WITH NO 9 WIRE RECTANGULAR WALL TIES 4" WIDE BY LENGTH EQUAL TO 2" LESS THAN OVERALL WALL THICKNESS. KINKS, WATER DRIPS, OR DEFORMATIONS ARE NOT PERMITTED IN THE WALL TIES. WALL TIES SHALL BE SPACED AT 36" OC MAX HORIZONTALLY AND 24" OC MAX VERTICALLY.
17. CONSTRUCT MASONRY IN RUNNING BOND PATTERN UNO. MAINTAIN BOND PATTERNS AT CORNERS, INTERSECTIONS AND SURFACES USING FULL UNITS. PROVIDE SPECIALTY OR CUT MASONRY UNITS WHEN REQUIRED. GROUTED SPACES SHALL NOT BE VISIBLE AT EXPOSED MASONRY SURFACES. TOOTHING OF MASONRY WALLS IS PROHIBITED. RAKING IS TO BE HELD TO A MINIMUM.
18. PLACE UNITS AND MORTAR TO PROVIDE CONSISTENT THICKNESS BED AND HEAD JOINTS UNO. TOOL MORTAR JOINTS CONCAVE UNO. REMOVE MORTAR PROTRUSIONS EXTENDING MORE THAN 1/4” INTO GROUTED SPACES. DURING PLACEMENT, REMOVE MORTAR DROPPINGS FROM HORIZONTAL CONSTRUCTION JOINTS, INTERIOR MASONRY SURFACES AND REINFORCING STEEL.
19. PLACE MORTAR AND MASONRY UNITS TO SOLIDLY FILL JOINTS AS FOLLOWS: BED JOINTS AT HOLLOW-UNIT FACE SHELLS, END WEBS, AND FULL HEIGHT CROSS WEBS; HEAD AND END JOINTS AT OPEN ENDS OF HOLLOW-UNITS FOR A MINIMUM DISTANCE FROM EACH FACE EQUAL TO THE FACE SHELL THICKNESS OF THE UNIT; HEAD AND END JOINTS AT CLOSED ENDS OF HOLLOW-UNITS; JOINT LOCATIONS NECESSARY TO CONFINE GROUT; BED, HEAD AND 3/4" OR LESS COLLAR JOINTS AT SOLID UNITS.
20. PLACE JOINT REINFORCEMENT SO THAT LONGITUDINAL WIRES ARE EMBEDDED IN MORTAR JOINTS WITH MINIMUM 6” LAP SPLICES. STAGGER ADJACENT LAP SPLICES WITH NO OVERLAP. PROVIDE MINIMUM MORTAR COVER OF 1/2” FROM INTERIOR SURFACES AND 5/8” FROM EXTERNAL SURFACES.
21. MINIMUM REBAR COVER FROM EXTERNAL MASONRY SURFACES EXPOSED TO EARTH OR WEATHER SHALL BE 2" FOR #6 REBAR AND LARGER, AND 1 1/2" FOR #5 REBAR AND SMALLER, UNO. MINIMUM REBAR COVER FROM EXTERNAL MASONRY SURFACES NOT EXPOSED TO EARTH OR WEATHER SHALL BE 1 1/2", UNO.
22. MINIMUM REBAR CLEARANCE TO INTERNAL MASONRY SURFACES SHALL BE THE GREATER OF ONE REBAR DIAMETER OR 1/2”. HORIZONTAL REBAR CAN BEAR ON THE CROSS WEBS OF BOND BEAM UNITS. REBAR WITH HOOKS OR BENDS SHALL BE SKEWED WITHIN CELLS TO MAINTAIN REQUIRED CLEARANCE. CONSTRUCT MASONRY AND CUT UNITS TO MAINTAIN REQUIRED CLEARANCE.
23. THE MINIMUM CLEAR DISTANCE BETWEEN PARALLEL REBAR SHALL BE THE GREATER OF ONE REBAR DIAMETER OR 1”. IN COLUMNS AND PILASTERS THE MINIMUM CLEAR DISTANCE BETWEEN VERTICAL REBAR SHALL BE THE GREATER OF ONE AND ONE-HALF REBAR DIAMETERS OR 1 1/2”. THE SAME LIMITATIONS SHALL APPLY TO THE CLEAR DISTANCE BETWEEN A REBAR SPLICE AND ADJACENT SPLICES OR REBAR.
24. HOLD REINFORCING IN PLACE USING WIRE TIES OR SPACING/POSITIONER DEVICES. VERTICAL REINFORCING SHALL BE HELD IN POSITION AT TOP AND BOTTOM OF EACH GROUT POUR AND AT INTERVALS NOT TO EXCEED 192 REBAR DIAMETERS. HORIZONTAL REINFORCING SHALL BE HELD IN POSITION AT EACH END AND AT INTERVALS NOT TO EXCEED 192 REBAR DIAMETERS.
25. SPLICE VERTICAL REBAR WITH FOUNDATION DOWELS THAT MATCH GRADE, QUANTITY, SIZE AND SPACING. EXTEND DOWELS INTO FOOTINGS AND TERMINATE WITH A STANDARD HOOK 3” ABOVE BOTTOM OF FOOTING UNO. DOWELS SHALL BE STRAIGHT AND PLUMB.
26. PLACE VERTICAL REBAR IN CONTINUOUS VERTICAL CELLS. PLACE HORIZONTAL REBAR IN CONTINUOUS HORIZONTAL BOND BEAM UNITS. CONSTRUCT MASONRY AND CUT UNITS TO MAINTAIN THE CLEAR AND UNOBSTRUCTED CONTINUITY OF THE REINFORCED VERTICAL AND HORIZONTAL CELLS.
27. REBAR BENDS AND HOOKS SHALL COMPLY WITH TYPICAL DETAILS UNO. HAIR PINS AND 180 DEGREE HOOKS SHALL COMPLY WITH TYPICAL DETAIL FOR STIRRUPS, HOOPS AND TIES. DO NOT BEND REBAR AFTER IT IS EMBEDDED IN GROUT OR MORTAR.
28. REBAR SPLICES SHALL BE MADE BY FULL CONTACT LAP SPLICES. SPLICES FOR DIFFERENT REBAR SIZES SHALL BE THE LENGTH REQUIRED FOR THE LARGER REBAR. AT LOCATIONS OTHER THAN FOUNDATION DOWELS, STAGGER ADJACENT LAP SPLICES WITH NO OVERLAP. REBAR SHALL BE LAP SPLICED AS FOLLOWS UNO:
    #3 REBAR - 40 DIA = 15”
    #4 REBAR - 48 DIA = 24”
    #5 REBAR - 56 DIA = 35”
    #6 REBAR - 72 DIA = 54”
    #7 REBAR - 72 DIA = 63”
    #8 REBAR - 72 DIA = 72”
29. REINFORCEMENT AND EMBEDDED ITEMS SHALL BE PLACED AND ANCHORED TO PREVENT MOVEMENT PRIOR TO GROUTING. BOLTS SHALL BE SET WITH TEMPLATES OR EQUIVALENT MEANS. WHERE EMBEDDED ITEMS PASS THROUGH MASONRY SURFACES CUT A CLEAN HOLE TO PROVIDE A MINIMUM OF 1/2” GROUT ALL AROUND EMBEDDED ITEM.
30. LOW-LIFT AND HIGH-LIFT GROUTED CONSTRUCTION SHALL CONFORM TO BUILDING CODE REQUIREMENTS AND THE METHODS USED SHALL BE ACCEPTABLE TO THE ENFORCEMENT AGENCY. HIGH-LIFT GROUTING FOR GROUT POURS OVER 4’-0” IN HEIGHT MAY BE USED WHERE GROUT SPACE DIMENSIONS, OPENINGS, UNIT PATTERN ARRANGEMENTS, REINFORCING, AND EMBEDDED ITEMS DO NOT PREVENT THE FREE FLOW OF GROUT OR INHIBIT THE MECHANICAL CONSOLIDATION OF THE GROUT. HIGH-LIFT GROUTING SHALL COMPLY WITH THE REQUIREMENTS OF THE DEPARTMENT OF THE STATE ARCHITECT INTERPRETATIONS OF REGULATIONS 21.2
31. BEFORE GROUTING CLEAN SPACES TO BE GROUTED. REMOVE OVERHANGING MORTAR, MORTAR DROPPINGS, OBSTRUCTIONS AND DEBRIS FROM INSIDE OF SPACES TO BE GROUTED.
32. PROVIDE CLEANOUT OPENINGS IN THE BOTTOM COURSE OF MASONRY FOR EACH GROUT POUR OVER 5’-4” IN HEIGHT. CONSTRUCT OPENINGS OF SUFFICIENT SIZE AND SPACING TO PERMIT CLEANING OF GROUT SPACES, REMOVAL OF DEBRIS AND INSPECTION. AFTER CLEANING AND INSPECTION, CLOSE CLEANOUTS WITH MORTARED MASONRY BRACED TO RESIST GROUTING PRESSURES.
33. GROUT SHALL BE PLACED SUCH THAT SPACES TO BE GROUTED DO NOT CONTAIN VOIDS. SPACES TO BE GROUTED INCLUDE ALL CELLS, BOND BEAMS, VOIDS AND SPACES CREATED BY THE MASONRY CONSTRUCTION. SPACES TO BE GROUTED SHALL BE FILLED SOLIDLY WITH GROUT UNO. PARTIAL GROUTING IS NOT PERMITTED UNLESS SPECIFICALLY NOTED. GROUTING SHALL BE PERFORMED UNDER THE CONTINUOUS OBSERVATION OF A QUALIFIED INSPECTOR.
34. THE GROUTING OF ANY SECTION OF WALL SHALL BE COMPLETED IN ONE DAY WITH NO INTERRUPTIONS GREATER THAN ONE HOUR. WHEN GROUTING IS STOPPED FOR ONE HOUR OR LONGER PROVIDE HORIZONTAL GROUT CONSTRUCTION JOINTS. DO NOT FORM HORIZONTAL GROUT CONSTRUCTION JOINTS IN BEAMS OR LINTELS.
35. THE SECTION OF WALL TO BE GROUTED IN ANY ONE POUR IS LIMITED TO A LENGTH IN WHICH SUCCESSIVE LIFTS CAN BE PLACED WITHIN ONE HOUR OF THE PRECEDING LIFTS. CONSTRUCT FULL-HEIGHT VERTICAL GROUT BARRIERS BETWEEN POUR SECTIONS TO CONTROL THE HORIZONTAL FLOW OF GROUT.
36. GROUT SHALL BE CONSOLIDATED BY MECHANICAL VIBRATION DURING PLACEMENT BEFORE LOSS OF PLASTICITY IN A MANNER TO FILL THE GROUT SPACE. GROUT POURS GREATER THAN 12” IN HEIGHT SHALL BE RECONSOLIDATED BY MECHANICAL VIBRATION TO MINIMIZE VOIDS DUE TO WATER LOSS. GROUT RECONSOLIDATION SHALL OCCUR AFTER EXCESS MOISTURE HAS BEEN ABSORBED BUT BEFORE WORKABILITY HAS BEEN LOST.
37. PREPARE, CONSTRUCT AND PROTECT MASONRY WORK FROM THE WEATHER UNTIL GROUTED AND CURED. IMPLEMENT COLD WEATHER CONSTRUCTION PROCEDURES WHEN THE AIR TEMPERATURE FALLS BELOW 40 DEG F. IMPLEMENT HOT WEATHER CONSTRUCTION PROCEDURES WHEN THE AIR TEMPERATURE EXCEEDS 90 DEG F.
38. CLEAN EXPOSED MASONRY SURFACES TO REMOVE STAINS, EFFLORESCENCE, MORTAR OR GROUT DROPPINGS, AND DEBRIS.

REINFORCED CONCRETE

S- 033000 N002A
180809. Q2

1. CONCRETE MATERIALS, QUALITY CONTROL AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI 318.
   - SEE CONCRETE MIX DESIGN TABLE FOR REQUIRED CONCRETE PROPERTIES.
2. PORTLAND CEMENT SHALL CONFORM TO ASTM C150, TYPE II.
3. AGGREGATES SHALL CONFORM TO ASTM C33 FOR NORMAL-WEIGHT AND ASTM C330 FOR LIGHTWEIGHT CONCRETE. MAXIMUM AGGREGATE SIZE USED IN MIXES SHALL BE APPROPRIATE FOR FORM AND REBAR CLEARANCES TO BE ENCOUNTERED.
4. REINFORCING STEEL SHALL CONFORM TO ASTM A706, GRADE 60, OR ASTM A615, GRADE 60.
5. REINFORCING STEEL TO BE WELDED SHALL CONFORM TO ASTM A706, GRADE 60. WELD FILLER METAL FOR REINFORCING STEEL SHALL COMPLY WITH AWS D1.4, Fu=80 KSI. WELDING SHALL CONFORM WITH AWS D1.4.
6. WELDED WIRE REINFORCEMENT SHALL BE COMPOSED OF FLAT SHEETS AND CONFORM TO ASTM A1064.
7. DIMENSIONS LOCATING REINFORCING STEEL ARE TO THE FACE OF REINFORCING STEEL AND DENOTE CLEAR COVERAGE. MINIMUM CONCRETE COVER SHALL BE AS FOLLOWS, UNO:
   A. CONCRETE CAST AGAINST EARTH (EXCEPT SLAB ON GRADE) - 3"
      - SLAB ON GRADE - CENTER REINF IN SLAB, UNO
   B. CONCRETE FORMED & EXPOSED TO EARTH OR WEATHER:
      - #6 THRU #18 BARS - 2"
      - #5 BAR, W31 OR D31 WIRE, & SMALLER - 1 1/2"
   C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND:
      - BEAMS & COLUMNS - 1 1/2"
      - SLABS & WALLS: #14 & #18 BARS - 1 1/2", #11 BAR & SMALLER - 3/4"
8. SPLICES IN CONTINUOUS REINFORCING SHALL BE LAPPED AS NOTED IN THE TYPICAL DETAIL, UNO. SPLICES IN ADJACENT BARS SHALL BE STAGGERED SO THERE IS NO OVERLAP. LAP SPLICES OF #14 & #18 REBAR IS NOT PERMITTED AND BARS SHALL BE CONTINUOUS ONE PIECE FOR THE FULL LENGTH SHOWN. LAP SPLICES OF REBAR IN A BUNDLE SHALL BE EQUAL TO THE LAP SPLICE LENGTH REQUIRED FOR THE INDIVIDUAL BARS WITHIN THE BUNDLE MULTIPLIED BY 1.33. INDIVIDUAL BAR SPLICES WITHIN A BUNDLE SHALL NOT OVERLAP. ENTIRE BUNDLES SHALL NOT BE LAP SPLICED.
9. UNLESS DETAILED OTHERWISE: REINFORCING IN CONTINUOUS BEAMS AND SPANDRELS SHALL HAVE THE TOP BARS SPLICED AT MID-SPAN AND THE BOTTOM BARS SPLICED AT THE CENTERLINE OF SUPPORTS. REINFORCING IN CONTINUOUS SOIL-BEARING GRADE BEAMS OR FOOTINGS SHALL HAVE THE TOP BARS SPLICED AT CENTERLINE OF COLUMN SUPPORTS AND THE BOTTOM BARS SPLICED AT MID-SPAN. AT DISCONTINUOUS ENDS, THE BARS SHALL BE TERMINATED WITH A STANDARD HOOK EXTENDED TO THE FAR FACE OF THE SUPPORT OR BEAM.
10. PROVIDE FOUNDATION DOWELS TO MATCH GRADE, QUANTITY, SIZE & SPACING OF WALL/COLUMN REINFORCEMENT. EXTEND DOWELS INTO FOOTINGS AND TERMINATE WITH A STANDARD HOOK 3" ABOVE BOTTOM OF FOOTING, UNO. PROVIDE STANDARD LAP AT DOWELS TO EACH WALL/COLUMN REBAR.
11. HOOKS SHALL BE STANDARD HOOKS, UNO.
12. ITEMS TO BE EMBEDDED IN CONCRETE, SUCH AS REINFORCING, DOWELS, BOLTS, ANCHORS, SLEEVES, ETC SHALL BE SECURELY TIED AND SUPPORTED PRIOR TO PLACING CONCRETE.
13. SURFACE OF CONSTRUCTION JOINTS SHALL BE CLEANED AND LAITANCE REMOVED. IMMEDIATELY BEFORE CONCRETE IS PLACED, CONSTRUCTION JOINTS SHALL BE WETTED AND STANDING WATER REMOVED. CONSTRUCTION JOINT SURFACES SHALL BE ROUGHENED TO A 1/4" MINIMUM AMPLITUDE, UNO.

CONCRETE MIX DESIGN

S- 033000 N002B
220302. Q2

MIX DESIGN TABLE

LOCATION	REQ SCM (% BY WEIGHT OF TOTAL CEMENTITIOUS MATERIALS)	REQ EARLY COMPRESSIVE STRENGTH (PSI)	REQ 28 DAY COMPRESSIVE STRENGTH (PSI)	AIR CONTENT	MAX W/C RATIO	MAX AIR-DRY WEIGHT (LBS/FT^3)	ACI EXPOSURE CLASS
BELOW GRADE CONCRETE (FTGS, PIERS, GRADE BEAMS)	15	2500 PRIOR TO LOADING	3000	NONE	0.50	145	F0, S0, W0, C1

LIONÄKIS

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CONSULTANT

SEAL

12/08/2023

PROJECT
MCCLATCHY HIGH SCHOOL
ATHLETIC FIELD RENOVATION

3066 FREEPORT BLVD,
SACRAMENTO, CA 95818

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

425 1ST AVE, SACRAMENTO, CA 95818.

ISSUED

MARK	DATE	DESCRIPTION
	8/17/2023	DSA SUBMITTAL
	12/7/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

LIONAKIS PROJECT NO:	023040
DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	
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TITLE
TYPICAL NOTES

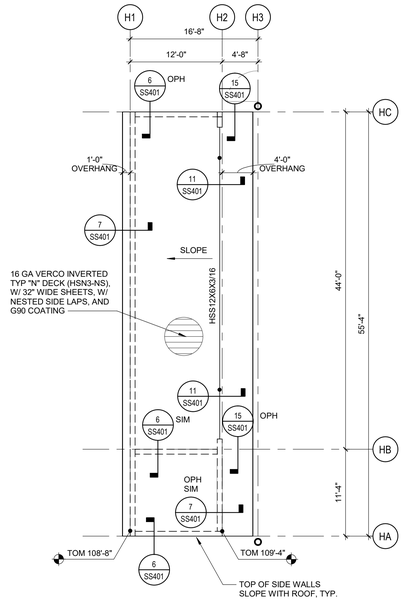
SHEET
S-011

IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY

0 1/4" 1/2" 1"

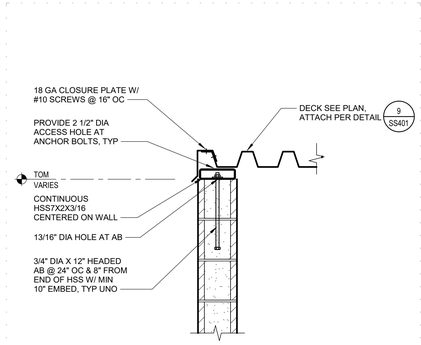
BIM 360://023040 SCUSD McClatchy HS Fields/023040_ARCHSITE_R20_CENTRAL.rvt

12/8/2023 9:42:20 AM



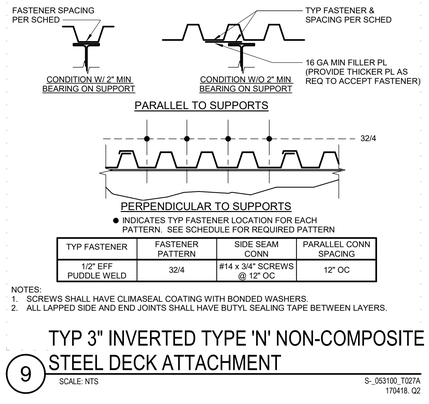
ENLARGED PLAN - ROOF FRAMING - HOME DUGOUT

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



DETAIL

6 1" = 1'-0" Q1



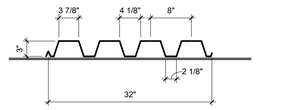
● INDICATES TYP FASTENER LOCATION FOR EACH PATTERN. SEE SCHEDULE FOR REQUIRED PATTERN

TYP FASTENER	FASTENER PATTERN	SIDE SEAM CONN	PARALLEL CONN SPACING
1/2" EFF PUDDLE WELD	32/4	#14 x 3/4" SCREWS @ 12" OC	12" OC

NOTES:
1. SCREWS SHALL HAVE CLIMASEAL COATING WITH BONDED WASHERS.
2. ALL LAPPED SIDE AND END JOINTS SHALL HAVE BUTYL SEALING TAPE BETWEEN LAYERS.

TYP 3" INVERTED TYPE 'N' NON-COMPOSITE STEEL DECK ATTACHMENT

9 SCALE: NTS S-_053100_T027A 170418. 02



STEEL DECK PROPERTIES						
TYPE	GA	Ie+ (in^4/ft)	Ie- (in^4/ft)	Se+ (in^3/ft)	Se- (in^3/ft)	Fy MIN (KSI)
N	16	1.57	1.58	0.881	0.93	50

DECK PROFILE / PROPERTIES

17 1" = 1'-0" Q1

NOTES

150507.Q2

1. SEE SHEET S-001 FOR GENERAL NOTES AND SHEETS S-531 & S-541 FOR TYPICAL DETAILS.
2. DIMENSIONS ARE TO FOM OR CENTERLINE OF COLUMNS/POSTS, UNO.
3. SEE ARCH & OTHER CONSULTANT DWGS FOR DIMENSIONS & LOCATIONS OF WALL OPENINGS.
4. SEE CIVIL DWGS FOR DIMENSIONS OF SLOPED SLABS.
5. SEE CIVIL DRAWINGS AND SPECIFICATIONS FOR ENGINEERED FILL.
6. EXTERIOR CONCRETE FLATWORK IS NOT SHOWN, SEE CIVIL & ARCH DWGS.
7. ALL MASONRY WALLS ARE 8" CMU GROUTED SOLID W/ STD REINF, TYP UNO. SEE SHEET S-541.
8. ALL SCREWS ON DECK TO BE GALVANIZED AND HAVE NEOPRENE WASHERS.
9. CLOSURE PLATES TO BE PAINTED. ARCHITECT TO DETERMINE COLOR.

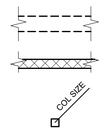
SCHEDULES

CONTINUOUS FOOTING SCHEDULE

TYPE	WIDTH	DEPTH	REINFORCEMENT	REMARKS
FC4.5	4'-6"	2'-0"	(5) #5 CONT T&B W/ #4 TIES @ 16" OC	

LEGEND

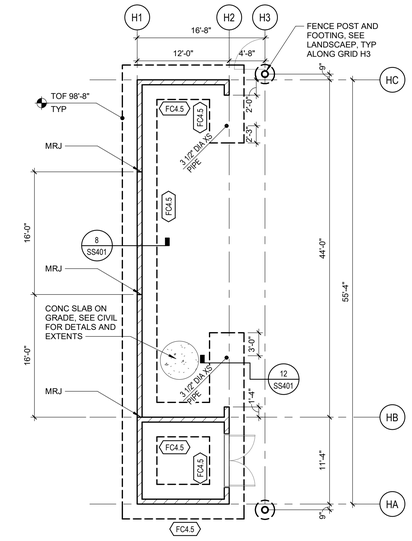
150507.Q2



FOOTING OR GRADE BEAM

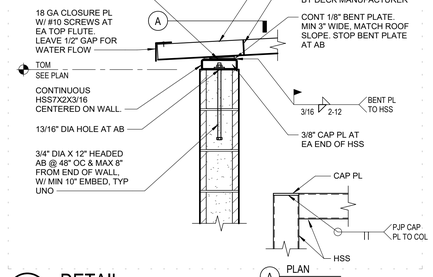
CONCRETE MASONRY UNIT WALL, SEE SHEET S-541.

COLUMN WITH CALLOUT



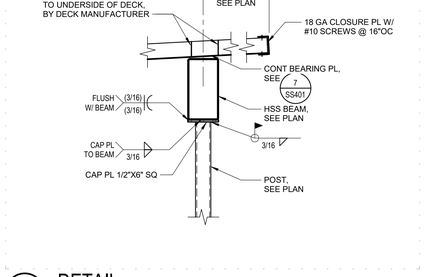
ENLARGED PLAN - FOUNDATION - HOME DUGOUT

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



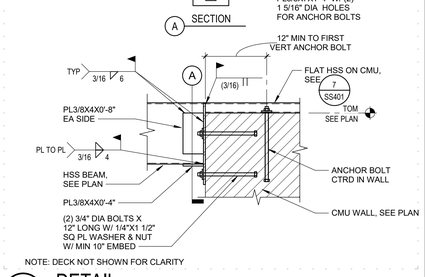
DETAIL

7 1" = 1'-0" Q1



DETAIL

11 1" = 1'-0" Q1



DETAIL

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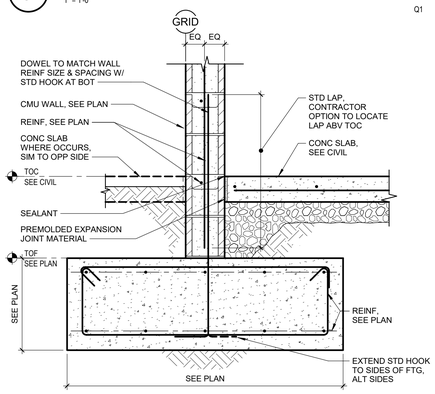
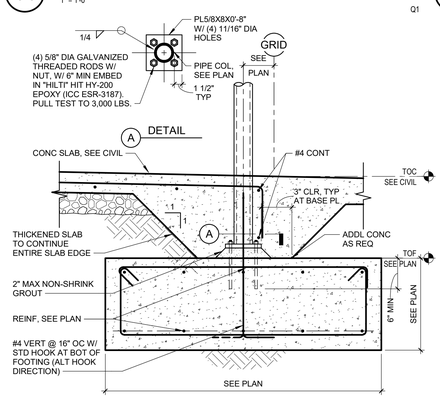


DETAIL

8 1" = 1'-0"



DETAIL

12 1" = 1'-0"

LIONAKIS
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CONSULTANT

SEAL

PROJECT
MCCLATCHY HIGH SCHOOL ATHLETIC FIELD RENOVATION

3066 FREEPORT BLVD, SACRAMENTO, CA 95818

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

425 1ST AVE, SACRAMENTO, CA 95818.

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	12/7/2023	BID SET - NOT DSA APPROVED

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DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	
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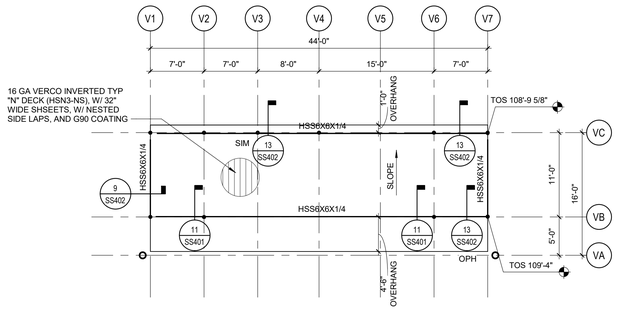
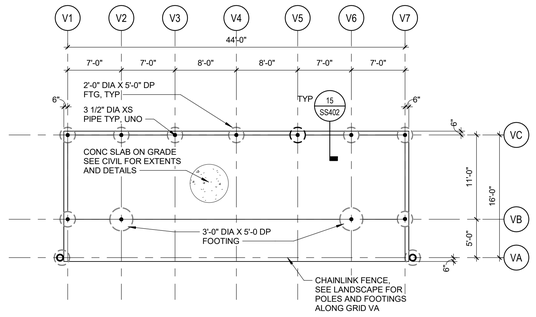
TITLE
ENLARGED PLAN - HOME DUGOUT

SHEET
SS401



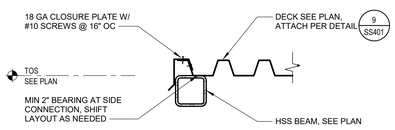
1 ENLARGED PLAN - ROOF FRAMING - VISITOR DUGOUT

SCALE 1/8" = 1'-0"



2 ENLARGED PLAN - FOUNDATION - VISITOR DUGOUT

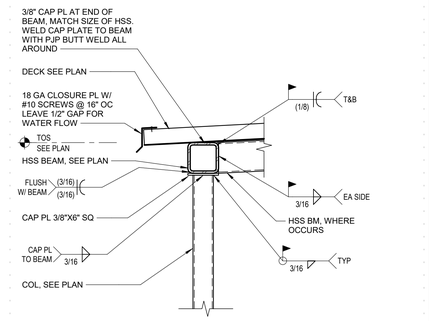
SCALE 1/8" = 1'-0"



9 DETAIL

1" = 1'-0"

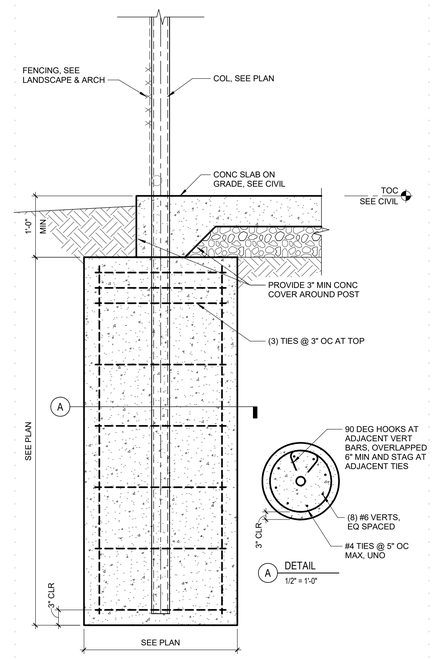
Q1



13 DETAIL

1" = 1'-0"

Q1



15 DETAIL

1" = 1'-0"

Q1

NOTES

150507.Q2

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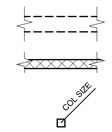
4. SEE CIVIL DWGS FOR DIMENSIONS OF SLOPED SLABS.
5. SEE CIVIL DRAWINGS AND SPECIFICATIONS FOR ENGINEERED FILL.
6. EXTERIOR CONCRETE FLATWORK IS NOT SHOWN, SEE CIVIL & ARCH DWGS.
7. ALL SCREWS ON DECK TO BE GALVANIZED AND HAVE NEOPRENE WASHERS.
8. CLOSURE PLATES TO BE PAINTED. ARCHITECT TO DETERMINE COLOR.

LEGEND

150507.Q2



FOOTING OR GRADE BEAM

CONCRETE MASONRY UNIT WALL, SEE SHEET S-541.

COLUMN WITH CALLOUT

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CLIENT PROJECT NO:	
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TITLE

ENLARGED PLAN - VISITOR DUGOUT

SHEET

SS402

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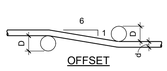
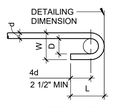


REBAR SIZE	DIA D	180 DEG HOOK		90 DEG HOOK
		W (TOL +/-)	L (TOL +/-)	W (TOL +/-)
#3	6xd	3" (1/2")	4" (1/2")	6" (1")
#4	6xd	4" (1/2")	4 1/2" (1/2")	8" (1")
#5	6xd	5" (1/2")	5" (1/2")	10" (1")
#6	6xd	6" (1/2")	6" (1/2")	12" (1")
#7	6xd	7" (1/2")	7" (1/2")	14" (1")
#8	6xd	8" (1/2")	8" (1/2")	16" (1")
#9	8xd	12" (1/2")	11" (1/2")	20" (1")
#10	8xd	13" (1/2")	12" (1/2")	22" (1")
#11	8xd	14" (1/2")	13" (1/2")	24" (1")
#14	10xd	21" (1 1/2")	17" (1 1/2")	31" (2 1/2")
#18	10xd	27" (2")	23" (2")	41" (3 1/2")

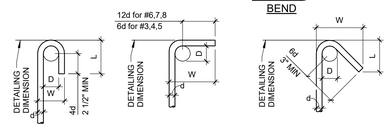


NOTES:
1. D = MINIMUM FINISHED INSIDE BEND DIA, d = NOMINAL REBAR DIAMETER
2. TOL = TOLERANCE (PER ACI 117)

1 TYP REBAR BENDS AND HOOKS

SCALE: NTS — S-_032000_T001A 140127

REBAR SIZE	DIA D	180 DEG HOOK		90 DEG HOOK	135 DEG HOOK	
		W (TOL +/-)	L (TOL +/-)	W (TOL +/-)	W (TOL +/-)	L (TOL +/-)
#3	4xd	2 1/4" (1/2")	3 3/4" (1/2")	3 1/2" (1")	4" (1/2")	3" (1/2")
#4	4xd	3" (1/2")	4" (1/2")	4 1/2" (1")	5" (1/2")	3" (1/2")
#5	4xd	3 3/4" (1/2")	4 1/2" (1/2")	5 3/4" (1")	6" (1/2")	4" (1/2")
#6	6xd	6" (1/2")	6" (1/2")	12" (1")	9" (1/2")	5 1/4" (1/2")
#7	6xd	7" (1/2")	7" (1/2")	14" (1")	10" (1/2")	6" (1/2")
#8	6xd	8" (1/2")	8" (1/2")	16" (1")	11" (1/2")	7" (1/2")



NOTES:
1. D = MINIMUM FINISHED INSIDE BEND DIA, d = NOMINAL REBAR DIAMETER
2. TOL = TOLERANCE (PER ACI 117)

2 TYP REBAR HOOP, STIRRUP, TIE HOOKS & BENDS

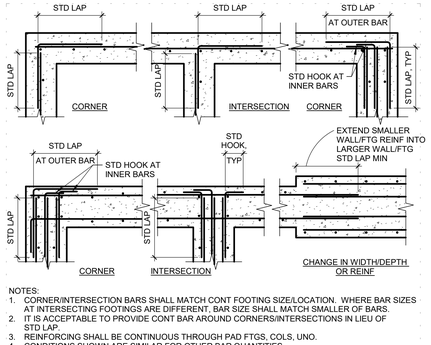
SCALE: NTS — S-_032000_T002A 140127

f'c (psi)		#3		#4		#5		#6		#7		#8		#9		#10		#11	
		NWC	LWC	NWC	LWC	NWC	LWC	NWC	LWC	NWC	LWC	NWC	LWC	NWC	LWC	NWC	LWC	NWC	LWC
3,000	TOP	28	38	38	50	47	62	56	75	81	108	93	124	105	140	118	157	131	175
	BOT	22	29	29	38	36	48	43	57	63	84	72	95	81	108	91	121	101	134

NOTES:
1. ALL LAP SPLICES SHALL BE FULL CONTACT SPLICES, UNO.
2. ADJACENT REINFORCING BEING LAP SPLICED MUST MEET ONE OF THE FOLLOWING CONDITIONS:
   A. CASE 1: THE CLEAR SPACING OF THE BARS IS NOT LESS THAN ONE BAR DIAMETER, CLEAR COVER IS NOT LESS THAN ONE BAR DIAMETER, AND STIRRUPS OR TIES THROUGHOUT THE SPLICE LENGTH.
   B. CASE 2: THE CLEAR SPACING OF THE BARS IS NOT LESS THAN TWO BAR DIAMETERS AND THE CLEAR COVER IS NOT LESS THAN ONE BAR DIAMETER.
   C. FOR ALL OTHER CASES, MULTIPLY THE SPLICES SHOWN BY 1.5.
3. THE ABOVE VALUES ARE FOR: UNCOATED REINFORCEMENT, GRADE 60 REBAR, CLASS B.
4. TOP BARS ARE HORIZONTAL REINFORCEMENT WITH MORE THAN 12" OF NEW CONCRETE PLACED BELOW THE BAR. BOTTOM BARS ARE ALL OTHER HORIZONTAL OR VERTICAL REINFORCEMENT.

3 TYP CONCRETE REBAR LAP SPLICE LENGTHS (INCHES)

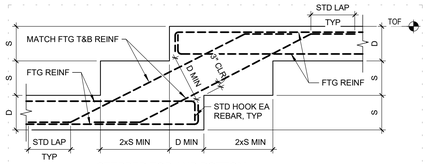
SCALE: NTS — S-_032000_T003A 190926. Q2



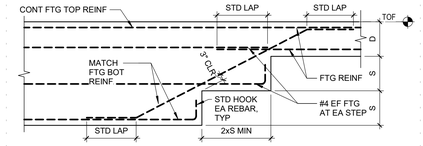
NOTES:
1. CORNER/INTERSECTION BARS SHALL MATCH CONT FOOTING SIZE/LOCATION. WHERE BAR SIZES AT INTERSECTING FOOTINGS ARE DIFFERENT, BAR SIZE SHALL MATCH SMALLER OF BARS.
2. IT IS ACCEPTABLE TO PROVIDE CONT BAR AROUND CORNERS/INTERSECTIONS IN LIEU OF STD LAP.
3. REINFORCING SHALL BE CONTINUOUS THROUGH PAD FTGS, COLS, UNO.
4. CONDITIONS SHOWN ARE SIMILAR FOR OTHER BAR QUANTITIES.

5 TYP CONC FTG / WALL REINF AT CORNERS AND INTERSECTIONS

SCALE: NTS — S-_033000_T002A 200304



STEPPED TOP AND BOTTOM

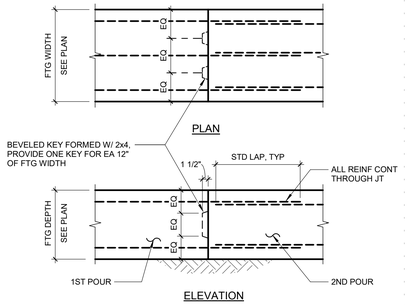


STEPPED BOTTOM

NOTES:
1. D = DEPTH FTG, S = STEP AT FTG (1'-6" MAX).
2. TWO STEPS SHOWN. SINGLE STEPS OR MULTIPLE STEPS SIMILAR.
3. SEE PLANS FOR FOOTING SIZE AND REINFORCING.
4. VERT / TIE / DOWEL REINF NOT SHOWN FOR CLARITY. PROVIDE TYP TO BOT OF FOOTING & STEP.

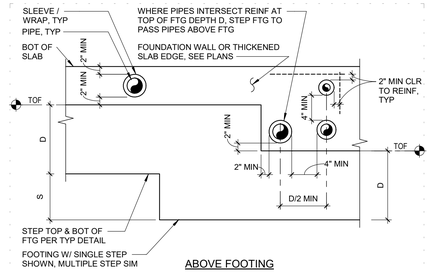
6 TYP STEPPED FOOTING

SCALE: NTS — S-_033000_T003A 150630

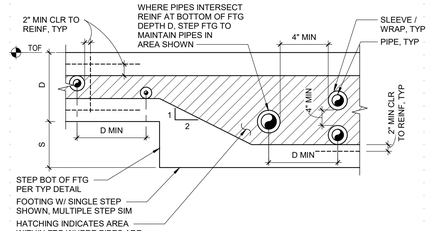


7 TYP CONSTRUCTION JOINT AT GRADE BEAM/CONTINUOUS FOOTING

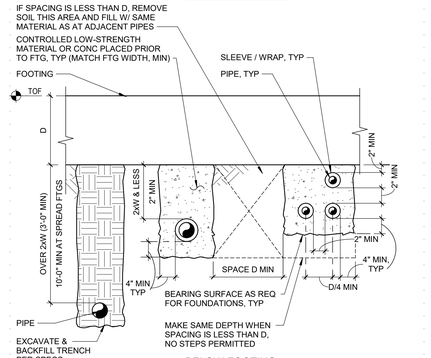
SCALE: NTS — S-_033000_T001A 140127



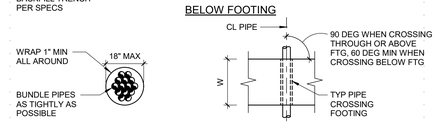
ABOVE FOOTING



THROUGH FOOTING



BELOW FOOTING

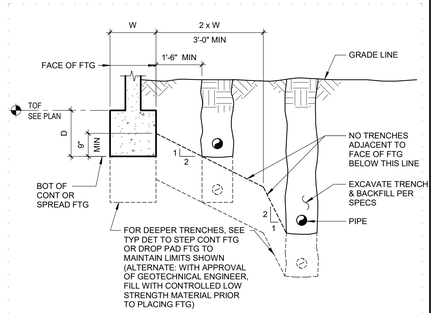


BUNDLED PIPE GROUPS — PLAN

NOTES:
1. D = DEPTH FOOTING, W = WIDTH FOOTING, S = STEP AT FOOTING.
2. PIPE AS NOTED SHALL REFER TO: PIPES, DUCTS, CONDUITS, ETC. ELECTRICAL CONDUITS 1" DIA OR LESS NEED NOT BE SLEEVED / WRAPPED.
3. THIS DETAIL APPLIES AT ALL 18" DIA PIPE & SMALLER.
4. THIS DETAIL SHALL APPLY IN ALL CASES WHERE A PIPE MUST CROSS A FOOTING. COORDINATE ELEVATIONS AND LOCATIONS OF ALL PIPES & FOOTINGS ACCORDINGLY. CONTACT STRUCTURAL ENGINEER FOR CONDITIONS NOT COVERED.
5. PIPES SHALL BE SLEEVED OR WRAPPED AS SHOWN. SLEEVE INSIDE DIAMETERS SHALL BE MIN 2" (4" FOR SPRINKLER PIPES 4" & LARGER) LARGER THAN PIPE OUTSIDE DIAMETER. CENTER PIPES WITHIN SLEEVE. PIPES IN PLACE PRIOR TO PLACING CONC MAY BE WRAPPED W/ 1" (2" FOR SPRINKLER PIPES 4" & LARGER) THICK COMPRESSIBLE FOAM INSTEAD OF SLEEVE.
6. SLEEVE / WRAP SHALL EXTEND THE FULL WIDTH OF FOOTING. SEAL ENDS OF SLEEVE / WRAP AS REQUIRED TO PREVENT WATER PENETRATION.
7. MULTIPLE PIPES SHALL COMPLY WITH THE HORIZONTAL AND VERTICAL SPACING SHOWN OR BE GROUPED INTO ONE LARGE BUNDLE WITHIN THE LIMITATIONS SHOWN. MULTIPLE BUNDLED PIPE GROUPS SHALL BE SPACED 4xD MIN OC.
8. PIPES AND SLEEVE / WRAP SHALL BE ADEQUATELY SUPPORTED AND SECURED AGAINST DISPLACEMENT BEFORE AND DURING CONCRETE PLACEMENT.
9. COORDINATE PIPE LOCATIONS SO THAT FOOTING REINFORCING IS NOT DISPLACED. MOVE PIPES TO MAINTAIN 2" CLR FROM REINFORCING TO SLEEVE / WRAP.
10. PIPES NEXT TO BUT NOT CROSSING FOOTING SHALL COMPLY WITH TYPICAL DETAIL FOR PIPE ADJACENT TO FOOTINGS.

15 TYP PIPE CROSSING FOOTINGS

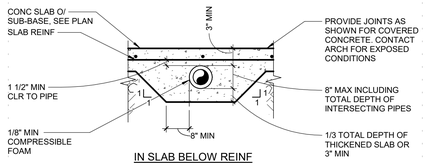
3/4" = 1'-0" — S-_033000_T016A 191114



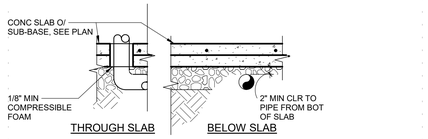
NOTES:
1. W = WIDTH FTG, D = DEPTH FTG.
2. TRENCHING LIMITATIONS ARE SAME FOR BOTH FACES OF FOOTING.
3. MAINTAIN LIMITS SHOWN FOR WIDER OR SHALLOWER FTG BEYOND, WHERE OCCURS.
4. PIPE AS NOTED SHALL REFER TO: PIPES, DUCTS, CONDUITS, ETC.

17 TYP PIPE ADJACENT TO FOOTING

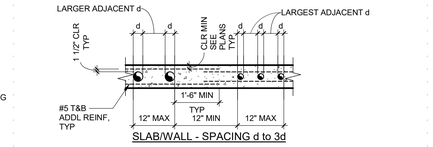
1/2" = 1'-0" — S-_033000_T015A 150623



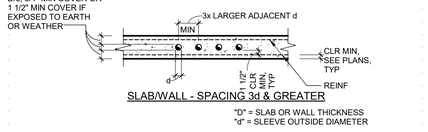
IN SLAB BELOW REINF



THROUGH SLAB — BELOW SLAB



SLAB/WALL - SPACING d to 3d



SLAB/WALL - SPACING 3d & GREATER

"D" = SLAB OR WALL THICKNESS
"d" = SLEEVE OUTSIDE DIAMETER

NOTES:
1. PIPE AS NOTED SHALL REFER TO: PIPES, DUCTS, CONDUITS, ETC. ELECTRICAL CONDUITS 1" DIA OR LESS NEED NOT BE SLEEVED
2. PIPES SHALL BE INSTALLED SUCH THAT CUTTING, BENDING OR DISPLACEMENT OF REINFORCEMENT FROM ITS PROPER LOCATION WILL NOT BE REQUIRED.
3. PIPES EMBEDDED IN SLABS & WALLS SHALL BE 2" MAX DIA & MIN SCHEDULE 40.

19 TYP PIPE AT SLABS / WALLS

3/4" = 1'-0" — S-_033000_T026A 140127

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CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

425 1ST AVE, SACRAMENTO, CA 95818.

ISSUED

MARK	DATE	DESCRIPTION
	8/17/2023	DSA SUBMITTAL
	12/7/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

LIONAKIS PROJECT NO:	023040
DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	
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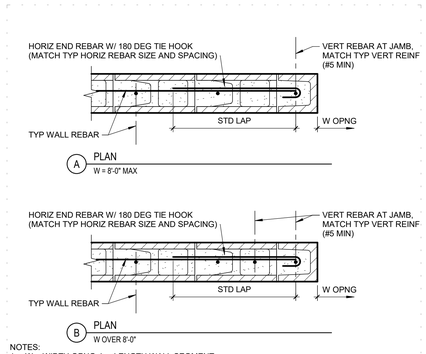
TITLE
DETAILS - TYPICAL CONCRETE

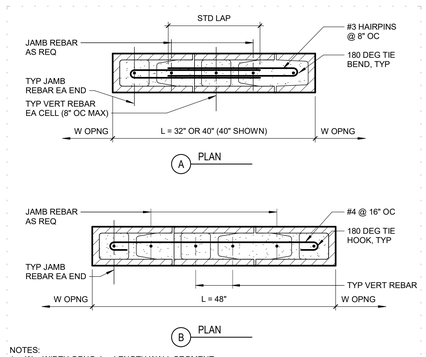
SHEET
S-531



NOTES:
1. W = WIDTH OPNG, L = LENGTH WALL SEGMENT
2. VERT REBAR SHALL HAVE MATCHING DOWELS AT FTG W/ STD LAP, TYP.
3. HORIZ END REBAR NOT REQ AT SITE WALLS.

2 TYP MASONRY JAMB / END

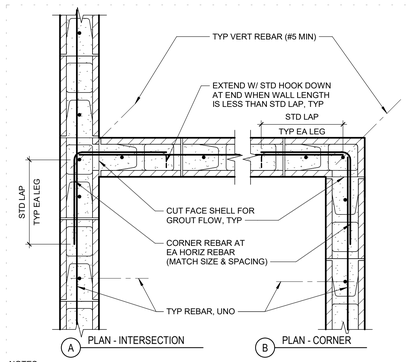
1" = 1'-0" S-_048200_T052A 180809



NOTES:
1. W = WIDTH OPNG, L = LENGTH WALL SEGMENT
2. MASONRY DIMENSIONS SHOWN ARE NOMINAL.
3. SEE TYPICAL DETAILS & PLANS FOR TYP VERT / JAMB REBAR.

3 TYP MASONRY LONG PIER

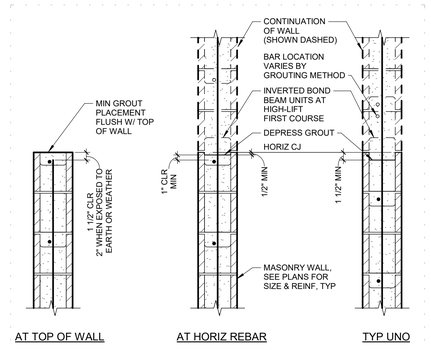
1" = 1'-0" S-_048200_T051A 190425



NOTES:
1. VERT REBAR SHALL HAVE MATCHING DOWELS AT FTG W/ STD LAP, TYP.

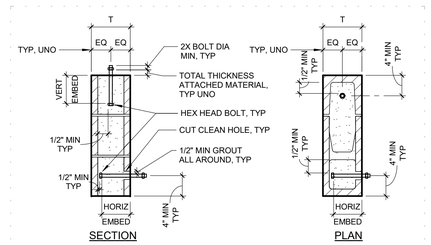
6 TYP MASONRY INTERSECTIONS

1" = 1'-0" S-_048200_T021B 180425



10 TYP MASONRY GROUT CJ

SCALE: NTS S-_048200_T006A 150706

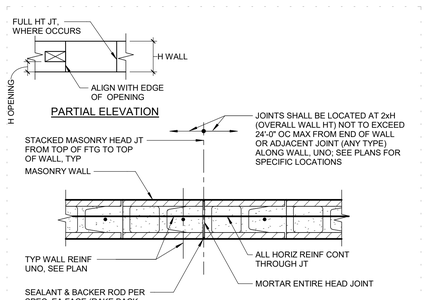


NOMINAL WALL THK (T)	MINIMUM EMBED		BOLT DIA	
	HORIZ	VERT	TYP UNO	MAX
6"	3"	6"	3/8"	1/2"
8"	4"	8"	5/8"	3/4"

NOTES:
1. PROVIDE 1" MIN CLEAR BETWEEN ADJACENT ANCHOR BOLTS.
2. REINFORCING NOT SHOWN FOR CLARITY.
3. TOTAL THICKNESS ATTACHED MATERIAL INCLUDES WASHERS & GROUT OR DRYPACK.

11 TYP BOLT EMBED IN MASONRY

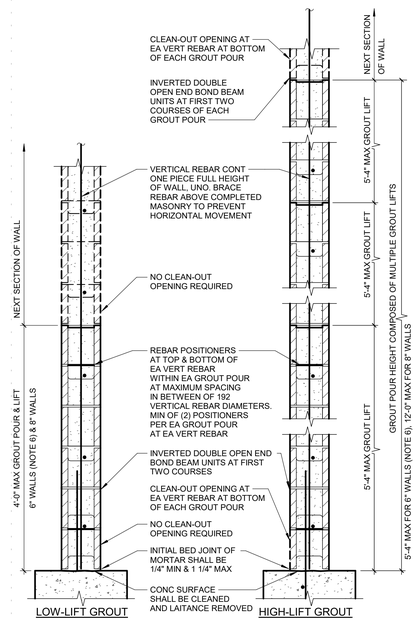
SCALE: NTS S-_048200_T004A 190506



NOTES:
1. SEE PLANS AND DETAILS FOR WALL SIZE AND REINFORCING.

13 TYP MASONRY RAKE JOINT

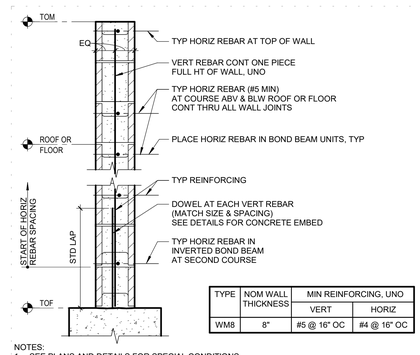
SCALE: NTS S-_048200_T010A 150427



NOTES:
1. WALLS MAY BE CONSTRUCTED USING LOW-LIFT OR HIGH-LIFT GROUTING METHOD.
2. DO NOT PLACE GROUT UNTIL ALL MASONRY UNITS, TIES, REBAR, BOLTS, EMBEDDED ITEMS & CLEAN-OUT CLOSURES ARE IN PLACE & SECURED IN POSITION TO THE TOP OF EACH GROUT POUR. GROUT ALL CELLS SOLID.
3. PROVIDE GROUT CONSTRUCTION JOINT AT TOP OF EACH GROUT POUR, SEE TYP DETAIL.
4. AFTER LOWER SECTION IS GROUTED AND PROPERLY CURED, LAY-UP & GROUT NEXT SECTION OF WALL TO GROUT POUR HEIGHT LIMITATIONS NOTED.
5. GROUT LIFT AND GROUT POUR HEIGHTS SHALL NOT EXCEED THE CLEAR GROUT SPACE LIMITATIONS OF THE BUILDING CODE OR THE MAXIMUM HEIGHTS INDICATED. PRIOR TO MASONRY CONSTRUCTION PROVIDE GROUT DEMONSTRATION PANELS FOR ALTERNATE GROUT SPACES OR HEIGHTS.
6. FOR 6" WALLS THE MAXIMUM GROUT LIFT AND GROUT POUR HEIGHT IS PERMITTED IF ALL OVERHANGING MORTAR PROTRUSIONS ARE REMOVED. OTHERWISE THE MAXIMUM GROUT LIFT AND GROUT POUR HEIGHT IS 1'-0".

18 TYP MASONRY GROUTING

SCALE: NTS S-_048200_T017A 220302

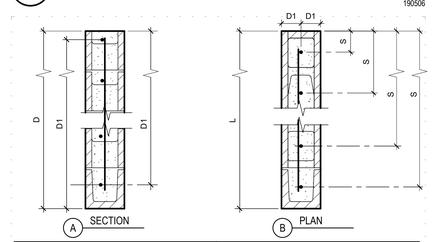


TYPE	NOM WALL THICKNESS	MIN REINFORCING, UNO	
		VERT	HORIZ
WM8	8"	#5 @ 16" OC	#4 @ 16" OC

NOTES:
1. SEE PLANS AND DETAILS FOR SPECIAL CONDITIONS.
2. AT 4" HIGH UNITS, PROVIDE INVERTED BOND BEAM UNITS ABOVE ALL HORIZ REBAR.
3. LOCATE REBAR LAPS, SPLICES & DOWELS IN SAME PLANE AS PRIMARY REINFORCING.

19 TYP MASONRY WALL REINF

SCALE: NTS S-_048200_T024B 190506

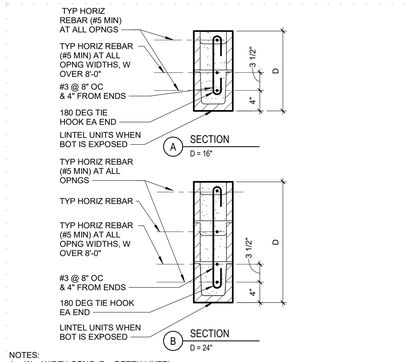


PLACEMENT TOLERANCE D1		PLACEMENT TOLERANCE S	
D1 EQUALS 8" OR LESS	+/- 1/2"	L EQUALS 8" OR LESS	+/- 1/2"
D1 OVER 8" UP TO 24"	+/- 1"	L OVER 8" UP TO 24"	+/- 1"
D1 OVER 24"	+/- 1 1/4"	L OVER 24"	+/- 2"

NOTES:
1. L = LENGTH WALL SEGMENT, D = DEPTH LINTEL, S = SPACING OF REINF, D1 = DEPTH TO REINF.
2. D1 IS THE LARGEST DISTANCE FROM REINFORCEMENT TO FOM.
3. TOLERANCE LIMITS APPLY TO WALLS, PILASTERS, COLUMNS, BEAMS AND LINTELS.
4. PLACEMENT OF DOWELS SHALL BE HELD TO THE SAME TOLERANCE.
5. SEE LINTEL, PIER AND JAMB DETAILS FOR REBAR BENDS NOT SHOWN.

20 TYP MASONRY REINF TOLERANCE

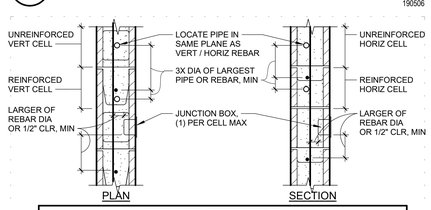
SCALE: NTS S-_048200_T023B 150706



NOTES:
1. W = WIDTH OPNG, D = DEPTH LINTEL.
2. MASONRY DIMENSIONS SHOWN ARE NOMINAL.

8 TYP MASONRY SHALLOW LINTEL

1" = 1'-0" S-_048200_T055A 190506



NOMINAL WALL THICKNESS	MAX QUANTITY OF PIPES PER CELL										COMMENTS
	1/2" DIA		3/4" DIA		1" DIA		1 1/4" DIA		1 1/2" DIA		
	R	U	R	U	R	U	R	U	R	U	
6"	1	2	-	1	-	-	-	-	-	-	R = REINFORCED CELL U = UNREINFORCED CELL
8"	2	3	1	2	-	1	-	-	-	-	

NOTES:
1. PIPE AS NOTED SHALL REFER TO: PIPES, CONDUITS OR SLEEVES.
2. ONLY RIGID PIPES ARE PERMITTED. NO ALUMINUM PERMITTED. DO NOT CROSS PIPES.
3. PIPES SHALL NOT BE EMBEDDED THAT WILL CONTAIN LIQUID, GAS, OR VAPORS: AT TEMPERATURES HIGHER THAN 150°F, UNDER PRESSURES IN EXCESS OF 55 PSI, OR SUBJECT TO FREEZING.
4. WRAP PIPE SWEEPS & FITTINGS W/ 1/8" MIN THICK FOAM TAPE.
5. WHEN POSSIBLE LOCATE PIPES & JUNCTION BOXES IN CELLS THAT ARE UNREINFORCED. WHERE SPACING OR CLEARANCE CANNOT BE MAINTAINED OR REBAR IS INTERRUPTED, PROVIDE REINF AS REQ FOR TYPICAL MASONRY OPENING.
6. PLACE PIPE & FOAM TAPE 1/2" MIN CLR FROM INTERIOR MASONRY SURFACES.
7. EMBEDDED PIPES SHALL NOT CROSS MASONRY DOWEL, CONTROL, KEY OR RAKE JOINTS.

12 TYP PIPE EMBED IN MASONRY

SCALE: NTS S-_048200_T003A 150427

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CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

425 1ST AVE, SACRAMENTO, CA 95818.

ISSUED

MARK	DATE	DESCRIPTION
	8/17/2023	DSA SUBMITTAL
	12/7/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

LIONAKIS PROJECT NO:	023040
DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	
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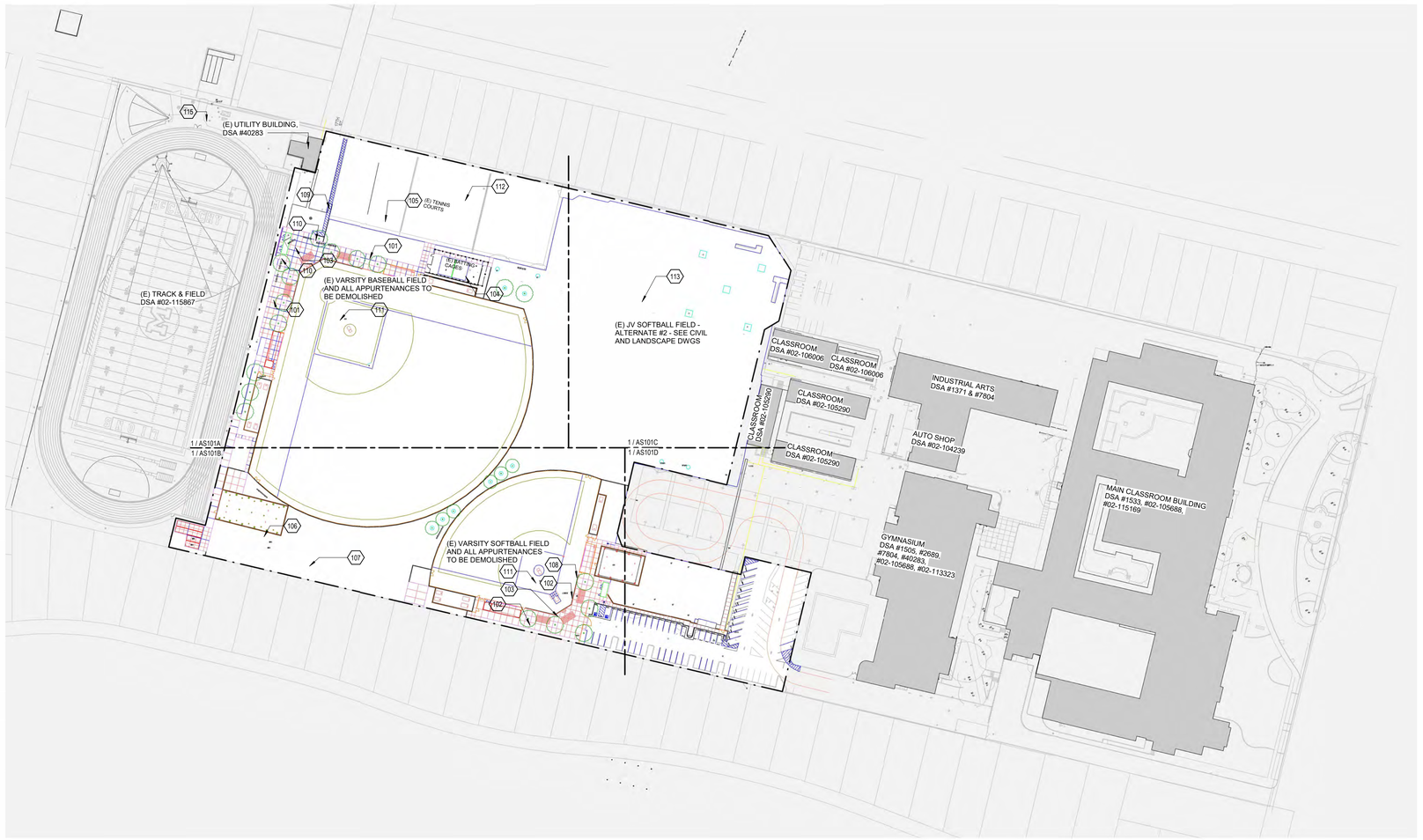
TITLE
DETAILS - TYPICAL MASONRY

SHEET
S-541



1 SITE PLAN - DEMOLITION
SCALE 1" = 80'-0"

PLAN NORTH

TITLE HERE

1. (E) SITE ELEMENTS SHOWN IN SPACED LINES TO BE DEMOLISHED IN THEIR ENTIRETY INCLUDING ALL UNDERGROUND CONCRETE FOOTINGS AND UTILITY LINES.
2. CONTRACTOR SHALL DEMO & TRANSPORT OFF SITE ALL ITEMS INCLUDED IN THE CONTRACT DOCUMENTS, UNLESS NOTED OTHERWISE. THOSE ITEMS INCLUDE, BUT NOT LIMITED TO: PAVING, CONCRETE, LANDSCAPE, TREES & ROOTS AND OTHER MATERIALS AS REQUIRED TO PERFORM NEW WORK.
3. CONTRACTOR SHALL PATCH AND REPAIR ALL ADJACENT AREAS AFFECTED BY DEMOLITION AS REQUIRED TO MATCH EXISTING CONDITIONS
4. ALL AREAS ON DEMOLITION PLANS ARE FOR REFERENCE ONLY. CONTRACTOR IS EXPECTED TO FIELD VERIFY ALL AREAS TO DETERMINE SPECIFIC SCOPE FOR EACH ITEM.
5. ALL SAFEGUARDS MUST BE ADHERED TO DURING CONSTRUCTION AND DEMOLITION PER CFC & CBC CHAPTER 33.
6. SEE OTHER DISCIPLINES FOR ADDITIONAL DEMOLITION SCOPE NOT NOTED HERE.
7. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL COORDINATE LOCATIONS FOR SITE ACCESS, TEMPORARY FENCING, TRAILERS, CONEX BOXES, AND LAY-DOWN / STAGING AREAS WITH DISTRICT REPRENTATIVES, AND SHALL VERIFY LOCATIONS ARE ACCEPTABLE WITH LOCAL FIRE AHJ
8. ALL EXISTING UTILITIES, SUCH AS BUT NOT LIMITED TO; WATER, SEWER, GAS AND DATA SHALL BE CAPPED. CONTRACTOR TO PROVIDE SOV AS NEEDED
9. NO DEMOLITION SHALL BEGIN UNTIL PLANS INCLUDING THE DEMOLITION WORK HAVE BEEN APPROVED BY DSA.
10. PRIOR TO DEMOLITION, CONTRACTOR SHALL COORDINATE WITH DISTRICT TO RESOLVE DEMOLISHED ITEMS TO BE SALVAGED. CONTACTOR SHALL RELOCATE ITEMS TO BE SALVAGED TO AREA OF CAMPUS AS DIRECTED BY DISTRICT REPRESENTATIVES.

LEGENDS

AREA OF WORK: SHOWN FOR REFERENCE ONLY - REFER TO ALL OTHER CONSTRUCTION DOCUMENTS FOR FULL SCOPE OF WORK NOT SHOWN HERE

EXISTING STRUCTURE WITH NO SCOPE OF WORK

SHEET KEYNOTES

101 DEMOLISH EXISTING BASEBALL DUGOUTS IN THEIR ENTIRETY

102 DEMOLISH EXISTING SOFTBALL DUGOUTS IN THEIR ENTIRETY

103 EXISTING CHAINLINK FENCE & GATE TO BE REMOVED

104 EXISTING BATTING CAGE ENCLOSURE, FENCING, AND TURF ASSEMBLY TO BE REMOVED

105 EXISTING TENNIS COURTS FABRIC FENCING TO BE REMOVED

106 EXISTING CONEX TO BE RELOCATED

107 SCORE BOARD TO BE REMOVED IN ITS ENTIRETY, SALVAGE AND PROTECT MEMORIAL SIGN TO BE REINSTALLED

108 REMOVE EXISTING BENCH

109 REMOVE (2) EXISITING DRINKING FOUNTAINS

110 EXISTING BLEACHERS TO BE REMOVED, TURN OVER TO THE DISTRICT

111 EXISTING BASES TO BE DEMOLISHED

112 (E) TENNIS COURT FENCE POLES TO BE PAINTED AND CHAIN-LINK FABRIC TO BE REPLACED, RESURFACE EXISTING COURTS, REPLACE (E) TENNIS EQUIPMENT, SEE ADD ALT#1

113 GRADING, REPLACE SOD AND IRRIGATION FOR JV FIELDS, SEE LANDSCAPE AND CIVIL DWGS SEE ADD ALT#2

115 (E) FOOTBALL SCOREBOARD TO BE REMOVED. (E) ELEC, DATA, AND STRUCTURE ASSEMBLY TO REMAIN.

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CONSULTANT

SEAL

LICENSED ARCHITECT BRIAN BELL C28712 REN 01-31-25 STATE OF CALIFORNIA

PROJECT
MCCLATCHY HIGH SCHOOL
ATHLETIC FIELD RENOVATION

3066 FREEPORT BLVD,
SACRAMENTO, CA 95818

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

425 1ST AVE, SACRAMENTO, CA 95818.

ISSUED

MARK	DATE	DESCRIPTION
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	12/7/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

LIONAKIS PROJECT NO:	023040
DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	
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TITLE
SITE DEMOLITION PLAN

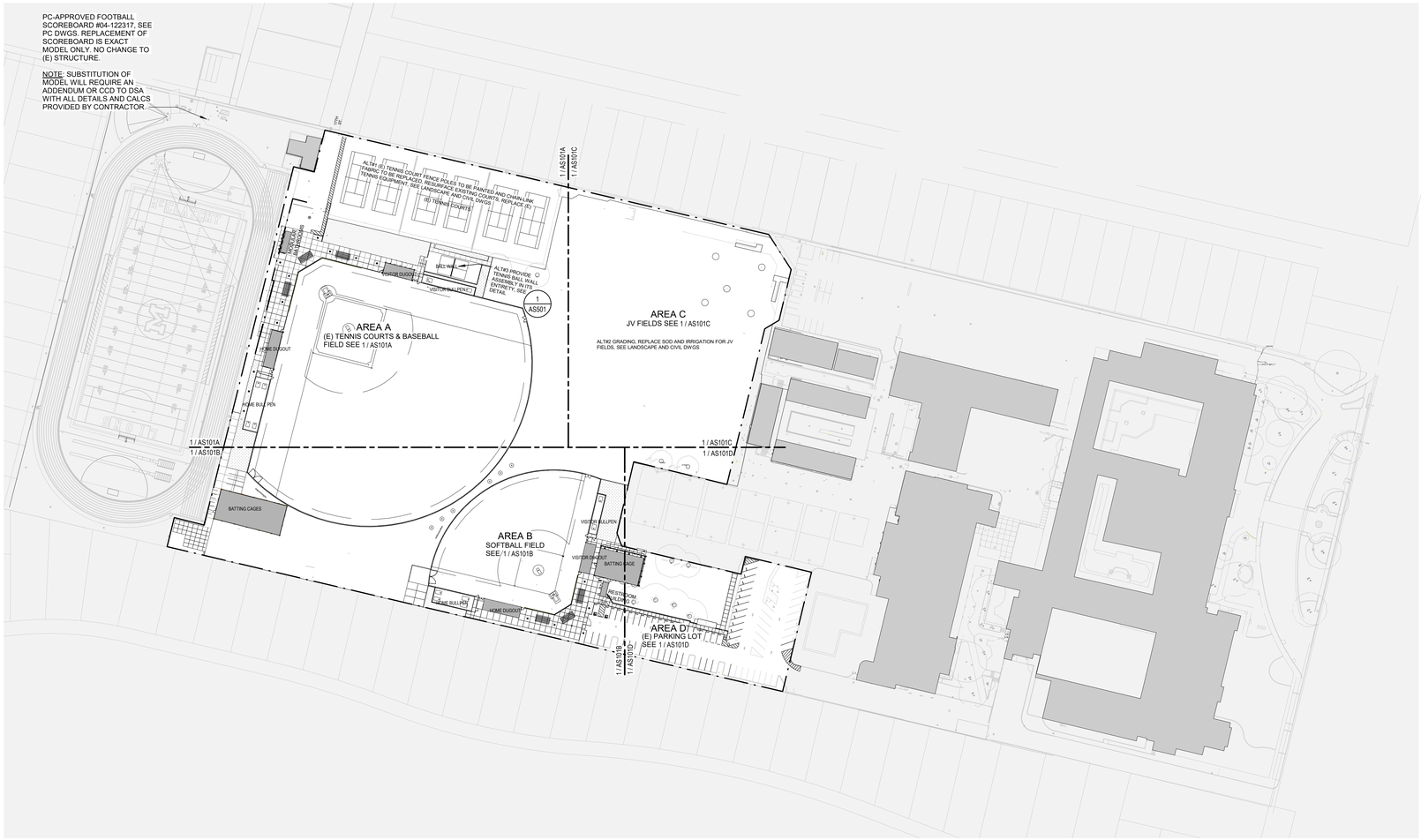
SHEET
AD101

IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT. SCALE ACCORDINGLY

0 1/4" 1/2" 1"

PC-APPROVED FOOTBALL SCOREBOARD #04-122317. SEE PC DWGS. REPLACEMENT OF SCOREBOARD IS EXACT MODEL ONLY. NO CHANGE TO (E) STRUCTURE.

NOTE: SUBSTITUTION OF MODEL WILL REQUIRE AN ADDENDUM OR CCD TO DSA WITH ALL DETAILS AND CALCS PROVIDED BY CONTRACTOR.



1 SITE PLAN - OVERALL
SCALE 1" = 80'-0"

PLAN NORTH

GENERAL NOTES

1. SEE SHEETS GA101 FOR ACCESSIBLE PATH OF TRAVEL.
2. SEE CIVIL DRAWINGS FOR FLATWORK TYPES AND SECTIONS.
3. SEE CIVIL DRAWINGS FOR PATH OF TRAVEL IMPROVEMENT.
4. SEE CIVIL AND LANDSCAPE DRAWINGS, FOR DIMENSIONS NOT OTHERWISE SHOWN ON THIS DRAWING.
5. SEE CIVL AND LANDSCAPE DRAWINGS FOR EQUIPMENT AND LAYOUTS.
6. PROVIDE 12" CONCRETE MOW STRIP BETWEEN ALL LANDSCAPE AREAS .
7. SEE CIVIL SHEETS FOR ROUTING OF ALL UNDERGROUND CONNECTION POINTS TO STORM DRAINAGE SYSTEM, WATER, AND SEWER LINES SHOWN ON CIVIL DRAWINGS.
8. CONTROL JOINTS SHALL BE LOCATED AT THE OUTSIDE CORNERS OF THE STRUCTURES.
9. SEE OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK.

LEGEND

AREA OF WORK: SHOWN FOR REFERENCE ONLY - REFER TO ALL OTHER CONSTRUCTION DOCUMENTS FOR FULL SCOPE OF WORK NOT SHOWN HERE

EXISTING STRUCTURE WITH NO SCOPE OF WORK

STRUCTURE UNDER THE SCOPE OF WORK

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TITLE

SITE PLAN - OVERALL

SHEET

AS101

1 SITE PLAN - AREA A
SCALE 1" = 20'-0"

GENERAL NOTES

1. SEE SHEETS GA101 FOR ACCESSIBLE PATH OF TRAVEL.
2. SEE CIVIL DRAWINGS FOR FLATWORK TYPES AND SECTIONS.
3. SEE CIVIL DRAWINGS FOR PATH OF TRAVEL IMPROVEMENT.
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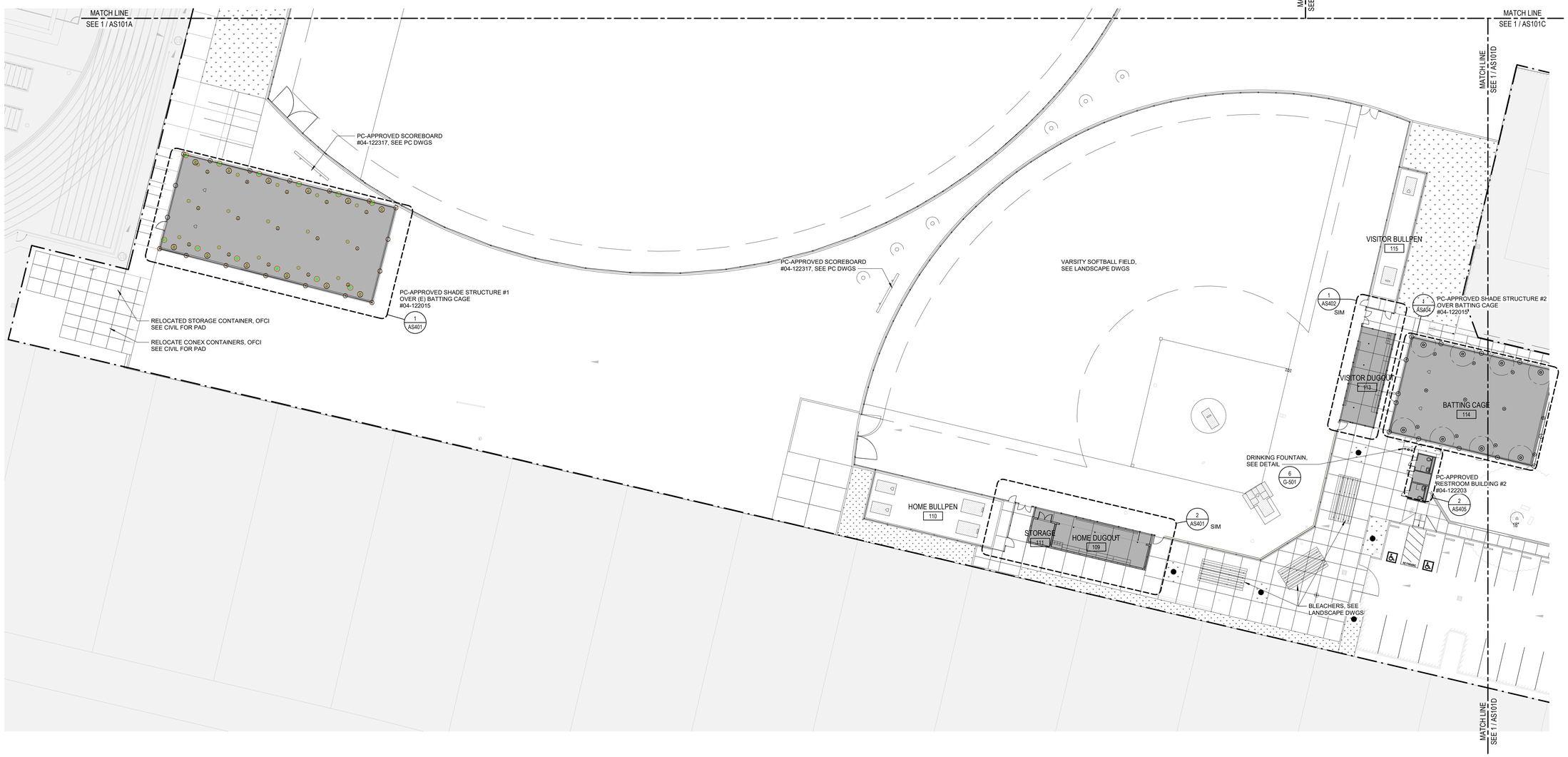
TITLE

SITE PLAN - AREA A

SHEET

AS101A



1 SITE PLAN - AREA B

SCALE 1" = 20'-0"

GENERAL NOTES

1. SEE SHEETS GA101 FOR ACCESSIBLE PATH OF TRAVEL.
2. SEE CIVIL DRAWINGS FOR FLATWORK TYPES AND SECTIONS.
3. SEE CIVIL DRAWINGS FOR PATH OF TRAVEL IMPROVEMENT.
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TITLE

SITE PLAN - AREA B

SHEET

AS101B

1 SITE PLAN - AREA C
SCALE 1" = 20'-0"

GENERAL NOTES

1. SEE SHEETS GA101 FOR ACCESSIBLE PATH OF TRAVEL.
2. SEE CIVIL DRAWINGS FOR FLATWORK TYPES AND SECTIONS.
3. SEE CIVIL DRAWINGS FOR PATH OF TRAVEL IMPROVEMENT.
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TITLE

SITE PLAN - AREA C

SHEET

AS101C

1 SITE PLAN - AREA D
SCALE 1" = 20'-0"

GENERAL NOTES

1. SEE SHEETS GA101 FOR ACCESSIBLE PATH OF TRAVEL.
2. SEE CIVIL DRAWINGS FOR FLATWORK TYPES AND SECTIONS.
3. SEE CIVIL DRAWINGS FOR PATH OF TRAVEL IMPROVEMENT.
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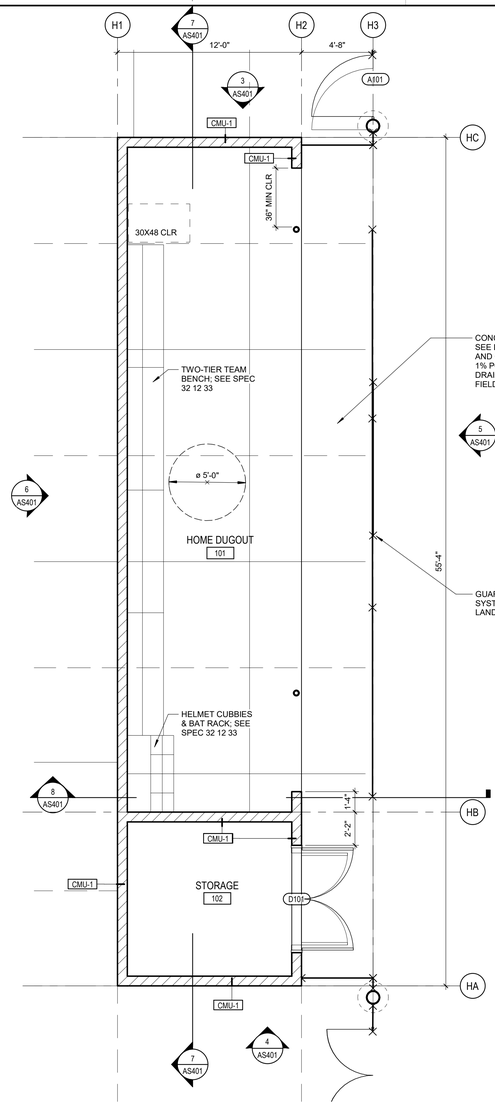
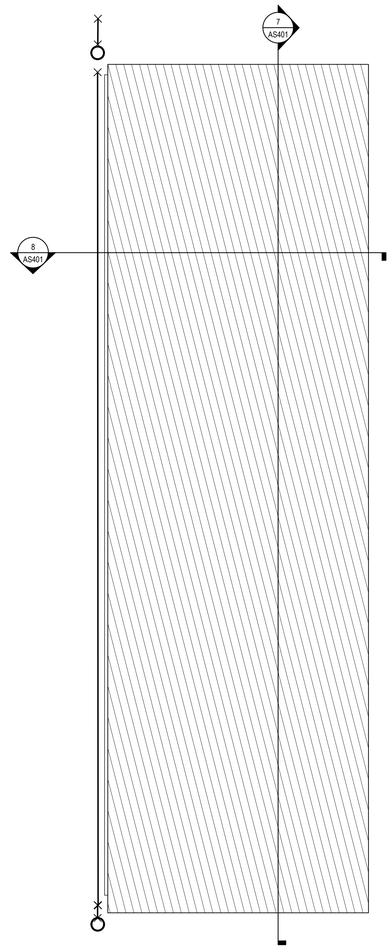
TITLE
SITE PLAN - AREA D

SHEET
AS101D



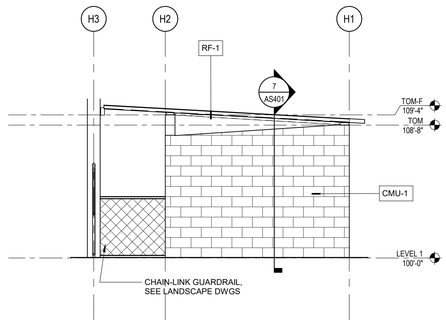
1 HOME DUGOUT - PLAN

SCALE 1/4" = 1'-0"



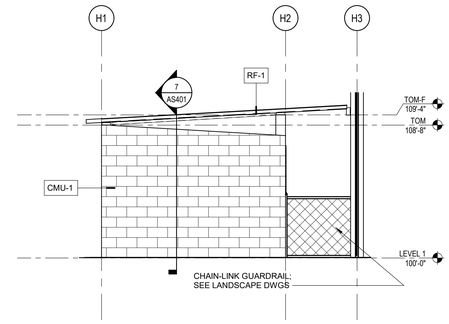
2 HOME DUGOUT - ROOF PLAN

SCALE 1/4" = 1'-0"



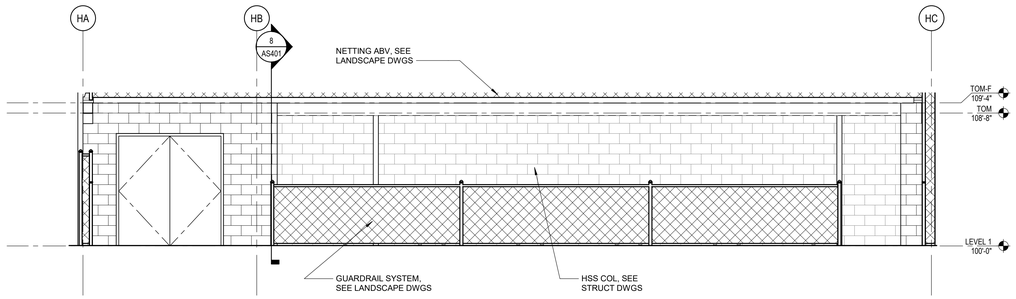
3 HOME DUGOUT - EXT ELEVATION - NORTH

SCALE 1/4" = 1'-0"



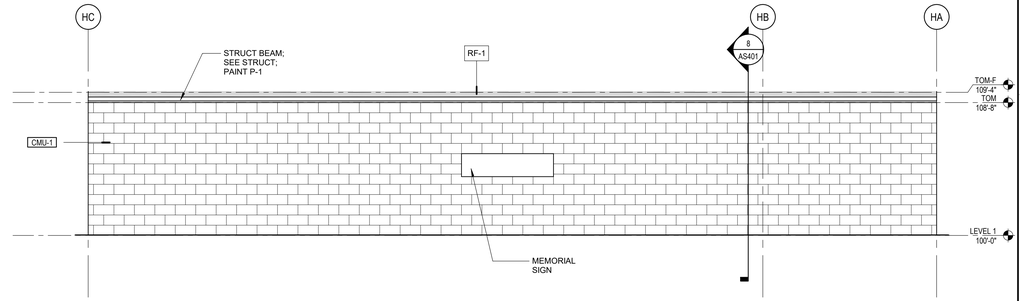
4 HOME DUGOUT - EXT ELEVATION - SOUTH

SCALE 1/4" = 1'-0"



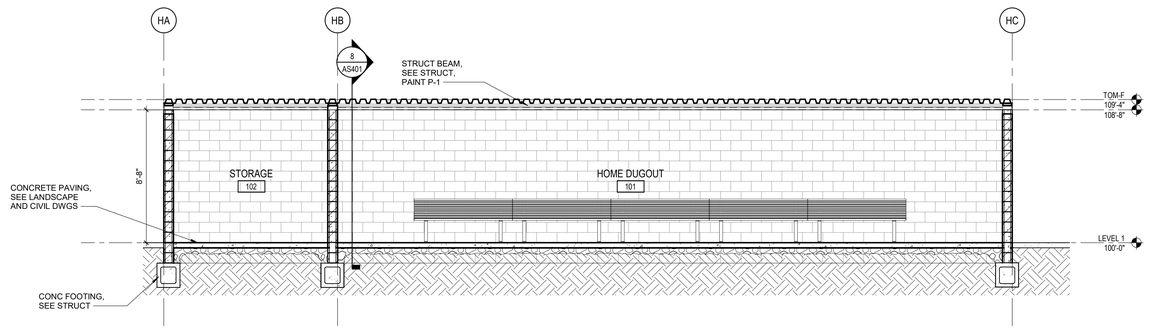
5 HOME DUGOUT - EXT ELEVATION - EAST

SCALE 1/4" = 1'-0"



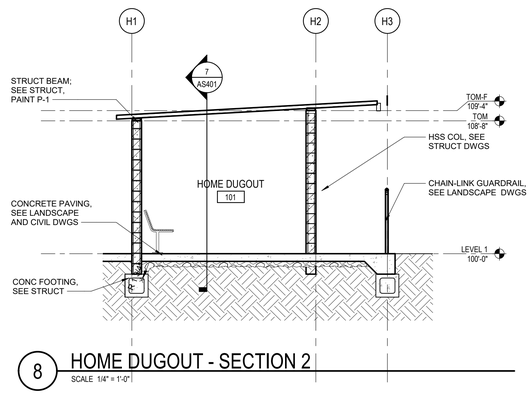
6 HOME DUGOUT - EXT ELEVATION - WEST

SCALE 1/4" = 1'-0"



7 HOME DUGOUT - SECTION 1

SCALE 1/4" = 1'-0"



8 HOME DUGOUT - SECTION 2

SCALE 1/4" = 1'-0"

LEGEND

CMU-1	CONCRETE MASONRY UNIT, SEE STRUCT MFR: BASALITE OR EQ PAINTED COLOR: SHERWIN WILLIAMS - SW7730 FORESTWOOD
RF-1	CORRUGATED METAL ROOFING, SEE STRUCT MFR: VERCO OR EQ COLOR: PAINT UNDERSIDE OF STRUCTURE P-1
P-1	PAINT COLOR MFR:SHERWIN WILLIAMS OR EQ COLOR: SW7730 FORESTWOOD

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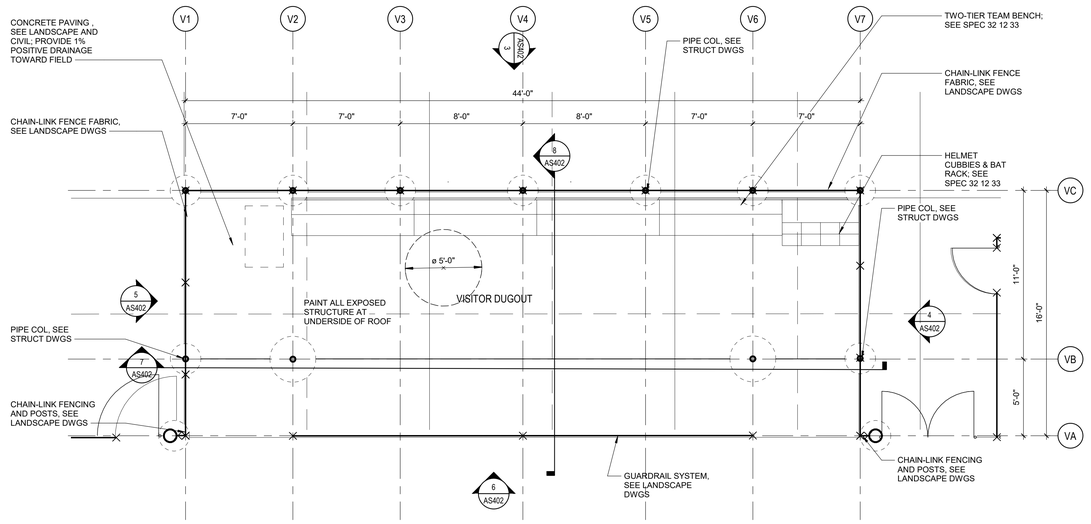
ENLARGED PLAN - HOME DUGOUT

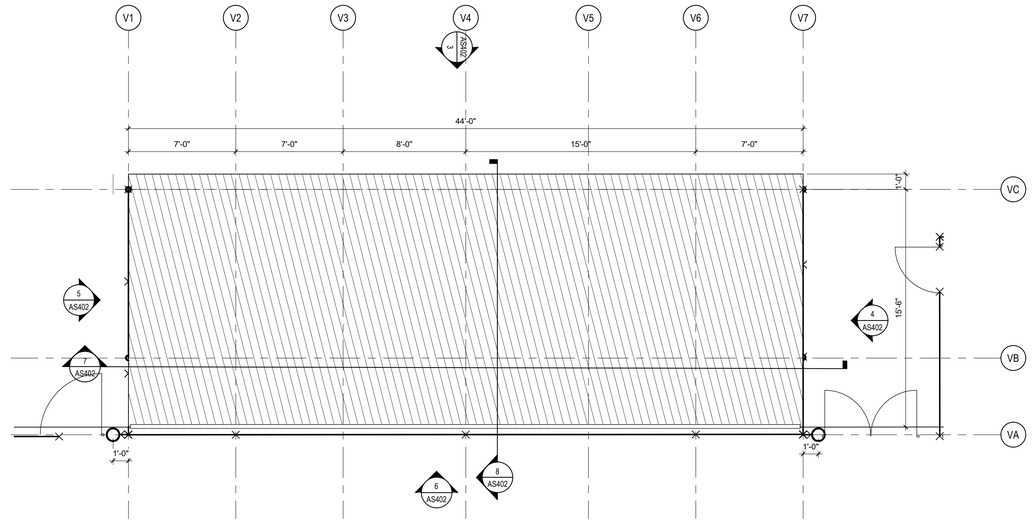
SHEET

AS401



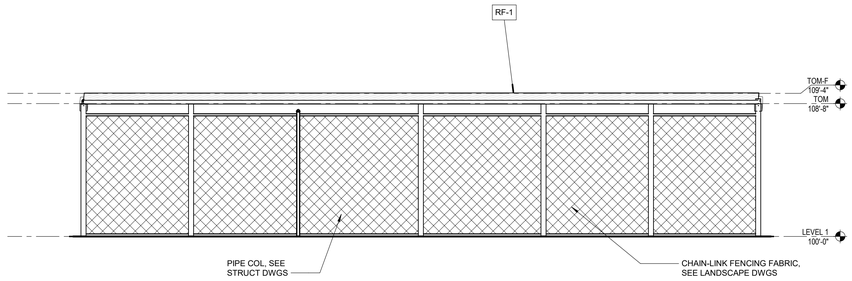
1 VISITOR DUGOUT - PLAN

SCALE 1/4" = 1'-0"



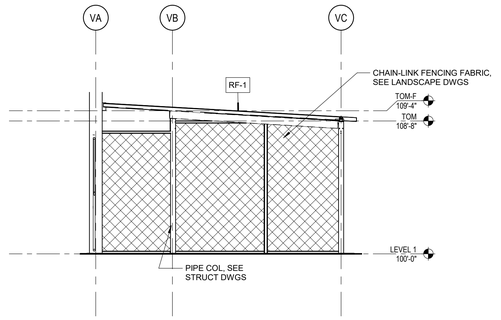
2 VISITOR DUGOUT - ROOF PLAN

SCALE 1/4" = 1'-0"



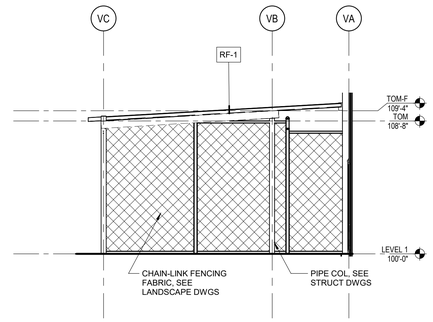
3 VISITOR DUGOUT - EXT ELEVATION - NORTH

SCALE 1/4" = 1'-0"



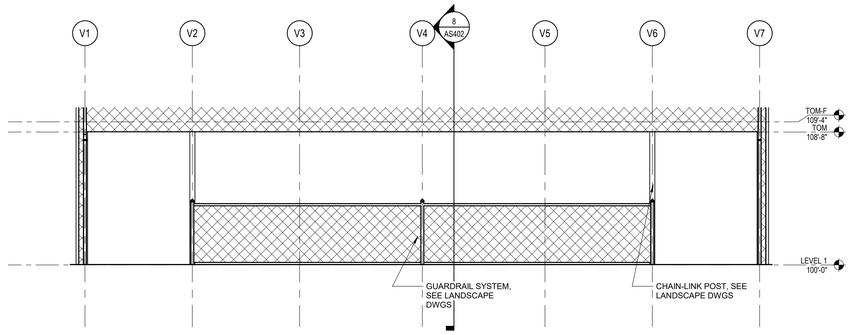
4 VISITOR DUGOUT - EXT ELEVATION - EAST

SCALE 1/4" = 1'-0"



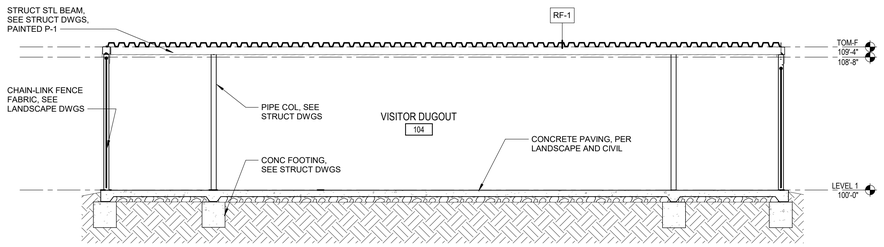
5 VISITOR DUGOUT - EXT ELEVATION - WEST

SCALE 1/4" = 1'-0"



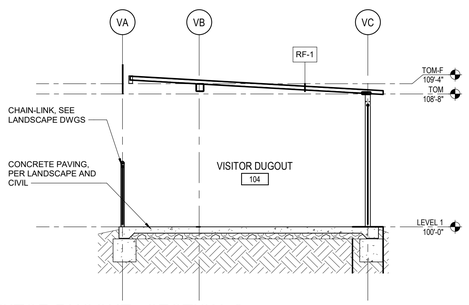
6 VISITOR DUGOUT - EXT ELEVATION - SOUTH

SCALE 1/4" = 1'-0"



7 VISITOR DUGOUT - SECTION 1

SCALE 1/4" = 1'-0"



8 VISITOR DUGOUT - SECTION 2

SCALE 1/4" = 1'-0"

LEGEND

CMU-1	CONCRETE MASONRY UNIT, SEE STRUCT MFR: BASALITE OR EQ PAINTED COLOR: SHERWIN WILLIAMS - SW7730 FORESTWOOD
RF-1	CORRUGATED METAL ROOFING, SEE STRUCT MFR: VERCO OR EQ COLOR: PAINT UNDERSIDE OF STRUCTURE P-1
P-1	PAINT COLOR MFR:SHERWIN WILLIAMS OR EQ COLOR: SW7730 FORESTWOOD

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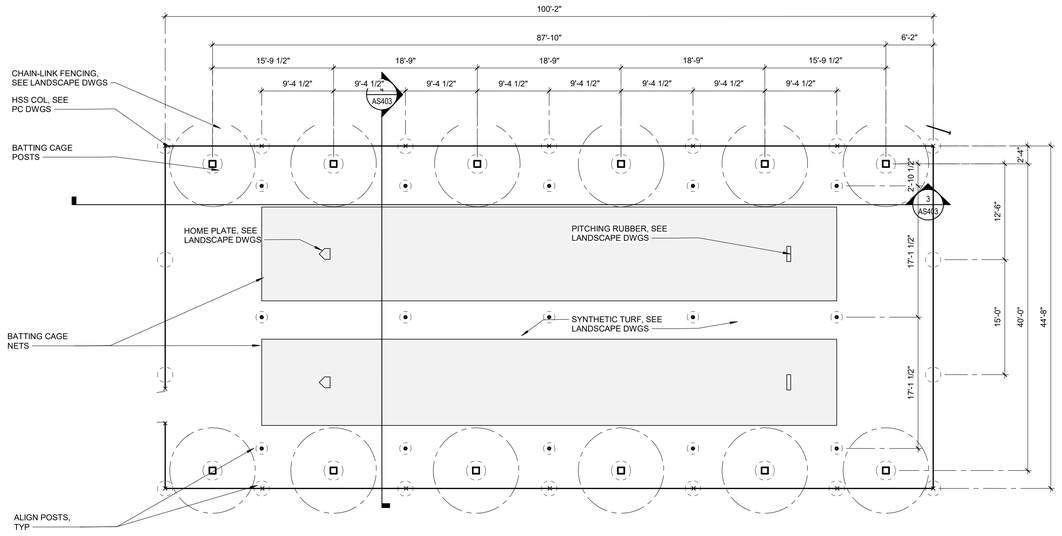
TITLE

ENLARGED PLAN - VISITOR DUGOUT

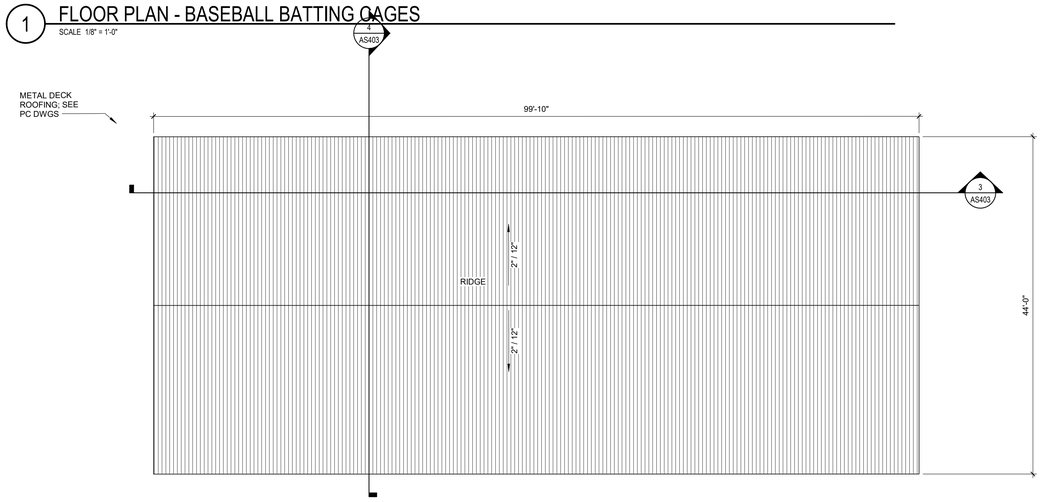
SHEET

AS402



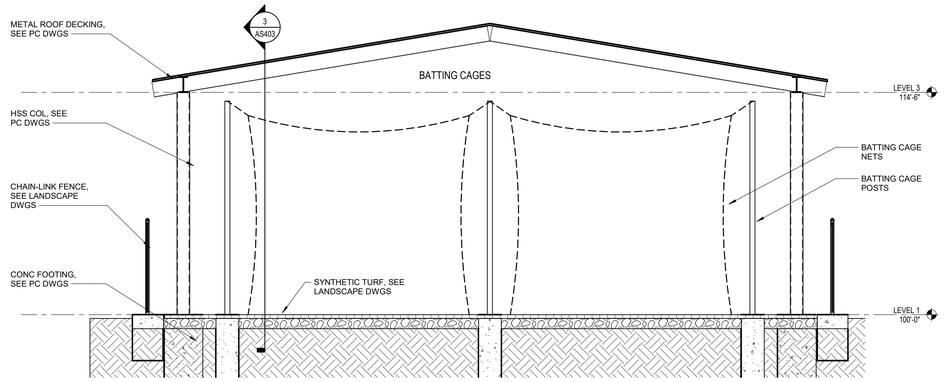
1 FLOOR PLAN - BASEBALL BATTING CAGES

SCALE 1/8" = 1'-0"



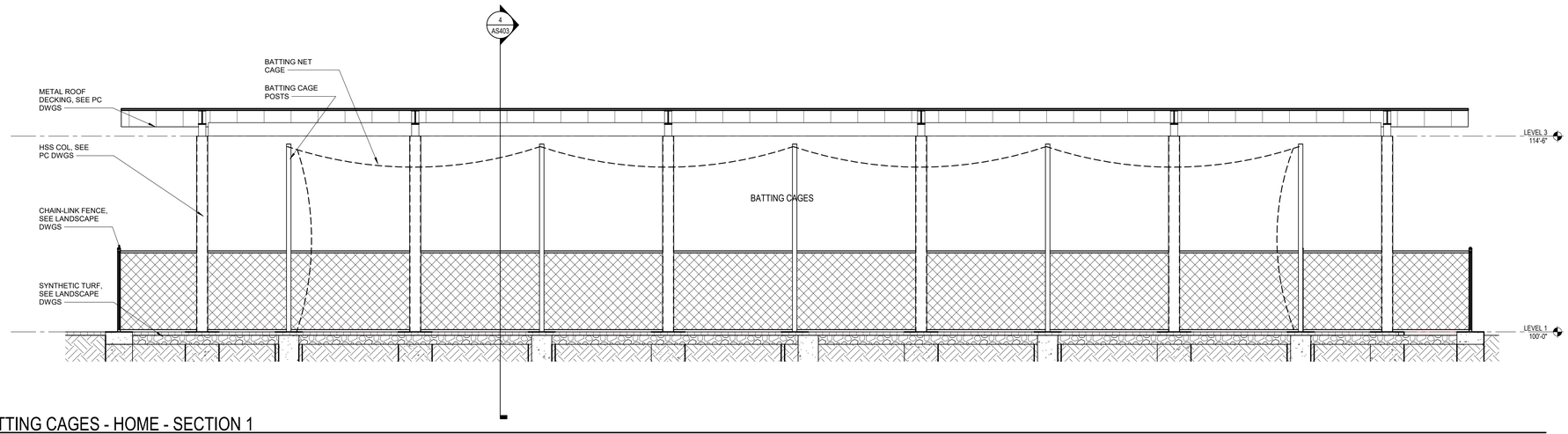
2 ROOF PLAN - BASEBALL BATTING CAGES

SCALE 1/8" = 1'-0"



4 BASEBALL BATTING CAGES - HOME - SECTION 2

SCALE 1/4" = 1'-0"



3 BASEBALL BATTING CAGES - HOME - SECTION 1

SCALE 1/4" = 1'-0"

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	8/17/2023	DSA SUBMITTAL
	12/7/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

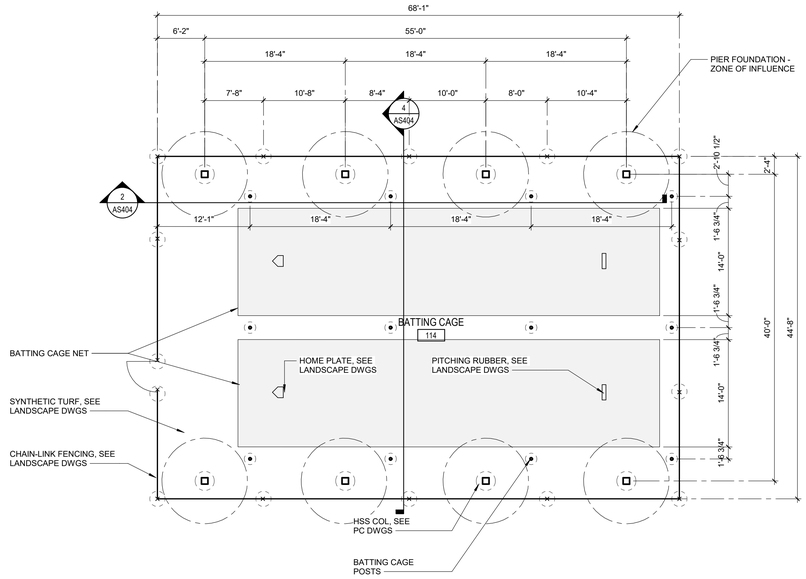
LIONAKIS PROJECT NO:	023040
DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	
COPYRIGHT:	LIONAKIS 2017

TITLE

ENLARGED PLAN - BASEBALL BATTING CAGE

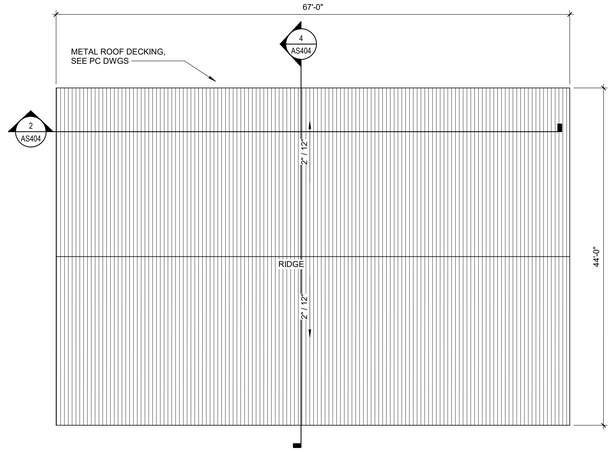
SHEET

AS403



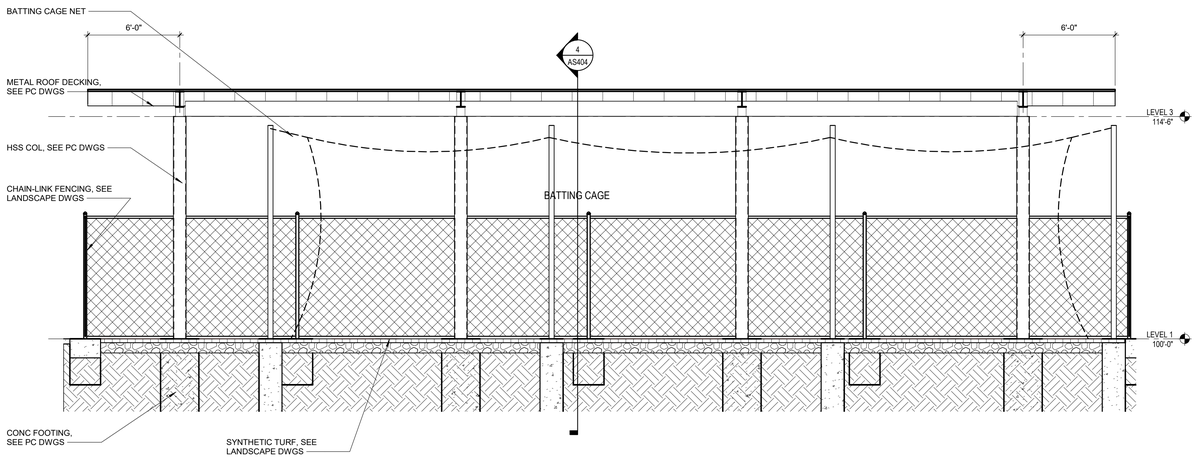
1 FLOOR PLAN - SOFTBALL BATTING CAGE

SCALE 1/8" = 1'-0"



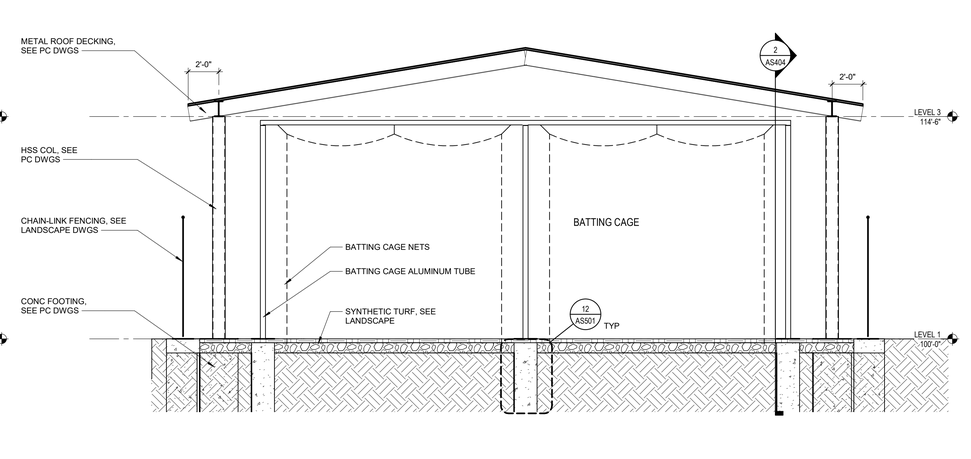
3 ROOF PLAN - SOFTBALL BATTING CAGE

SCALE 1/8" = 1'-0"



2 SOFTBALL BATTING CAGE - SECTION 1

SCALE 1/4" = 1'-0"



4 SOFTBALL BATTING CAGE - SECTION 2

SCALE 1/4" = 1'-0"

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P 916.558.1900
www.lionakis.com
CONSULTANT

SEAL

LICENSED ARCHITECT BRIAN BELL C28712 REN 01-31-25 STATE OF CALIFORNIA

PROJECT
MCCLATCHY HIGH SCHOOL ATHLETIC FIELD RENOVATION

3066 FREEPORT BLVD, SACRAMENTO, CA 95818

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

425 1ST AVE, SACRAMENTO, CA 95818.

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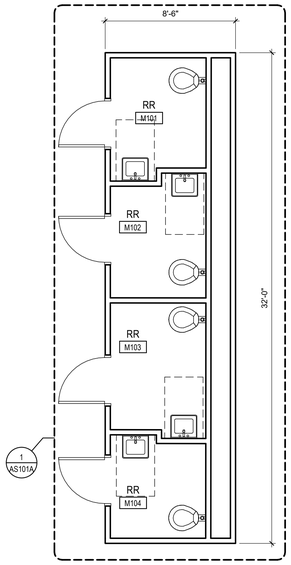
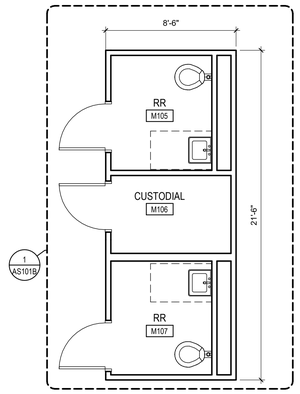


1 PC MODULAR RESTROOMS #1

SCALE 1/4" = 1'-0"



2 PC MODULAR RESTROOMS #2

SCALE 1/4" = 1'-0"

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ENLARGED PLANS - RESTROOMS

SHEET

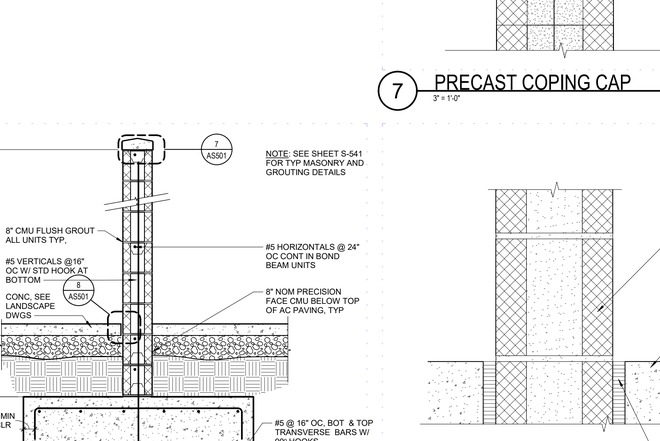
AS405

DOOR SCHEDULE

			DOORS							FRAME				
					LEAF 2									
DOOR NO	LOCATION	HDW GP	TYPE	WIDTH	TYPE	WIDTH	MATL	HEIGHT	FINISH	TYPE	MATL	FINISH	DETAIL NO	COMMENTS
D101	STORAGE	SEE BELOW	DF1	3'-4"	DF1	3'-4"	HM	7'-2"	PT	FB1	HM	PT	9/AS501	STORAGE

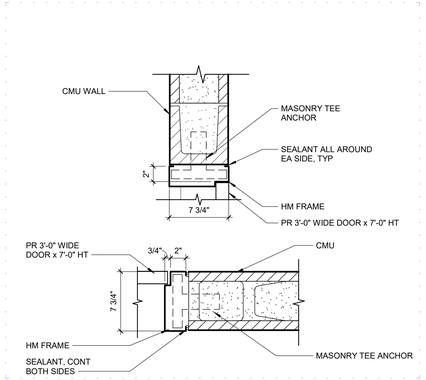
DOOR HARDWARE

Quantity		Device Description		Finish	MFR
1	EA	ADA Flush Pull (Active Door)	1111A (installed 42" AFF)	626	Tremco
1	EA	ADA Deadlock	L9460T(installed below 1111A pull, but no lower than 34" AFF for key)	630	Schlage
1	EA	Permanent Core to be Mastered Key to Campus	20-740	626	Schlage
2		Continuous Hinge	SL11-HD Device	AL	Select Manufacturing



1 TENNIS BALL WALL FLOOR PLAN

SCALE 1/4" = 1'-0"

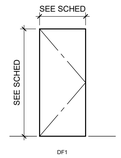


9 DOOR HEAD AND JAMB @ CMU

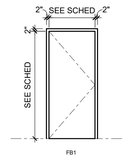
1 1/2" = 1'-0"

Q1

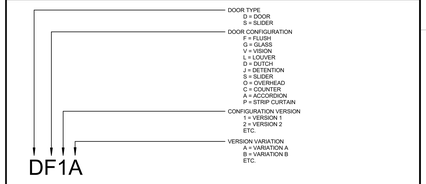
DOOR TYPES



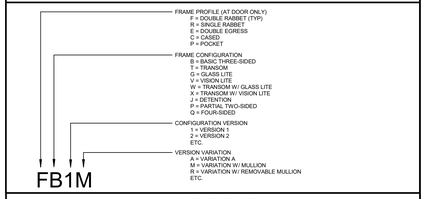
FRAME TYPES



DOOR TYPE SYMBOL KEY



FRAME TYPE SYMBOL KEY



LEGEND

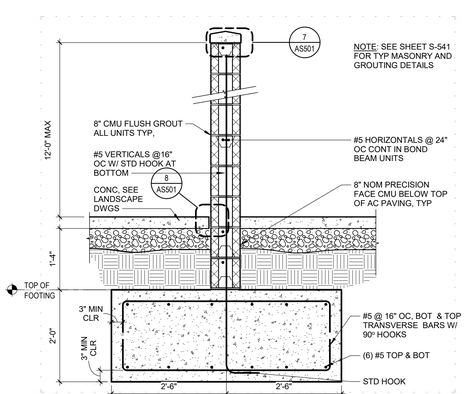
(E) = EXISTING
ADO = AUTOMATIC DOOR OPERATOR
ADC = AUTOMATIC DOOR CLOSER
CR = CARD READER
EL = ELECTRIC LOCK
HDW GP = HARDWARE GROUP
HO = HOLD OPEN
PH = PANIC HARDWARE
V = VINYL STRIPS

GLASS LEGEND:
GL = GLASS
LG = LEADED GLASS
RG = RATED GLASS
SG = SPANDREL GLASS
TG = TEMPERED GLASS

GLASS LEGEND NOTES:
1. SEE SPECS FOR GLASS TYPES NOTED

MATERIAL
ALUM = ALUMINUM
DHM = DETENTION HOLLOW METAL
HM = HOLLOW METAL
SST = STAINLESS STEEL
WD = WOOD

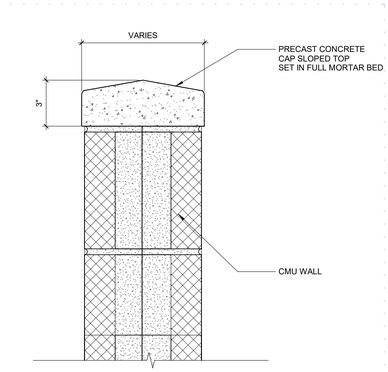
FINISH
ANOD = ANODIZED
FRP = FIBER REINFORCED PLASTIC
PLAM = PLASTIC LAMINATE
PT = PAINT
ST = STAIN



4 BALL WALL - CMU WALL SECTION

3/4" = 1'-0"

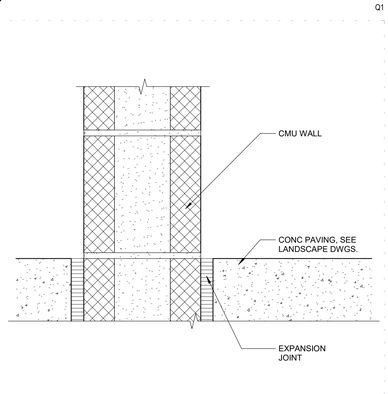
Q1



7 PRECAST COPING CAP

3" = 1'-0"

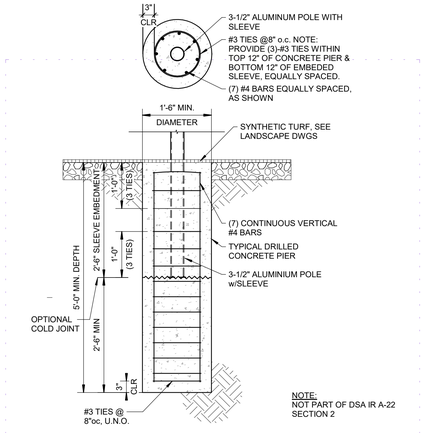
Q1



8 BALL WALL - CMU BASE

3" = 1'-0"

Q1



12 BATTING CAGE POLE FOUNDATION

3/4" = 1'-0"

Q1

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TITLE

SITE DETAILS

SHEET

AS501

SYMBOLS LIST

SOME OF THESE SYMBOLS SHOWN MAY NOT BE USED ON THIS PROJECT

PROJECT GENERAL NOTES

1. ELECTRICAL SCOPE SHALL COMPLY WITH THE LATEST ADOPTED EDITIONS OF THE CALIFORNIA ELECTRIC CODE (CEC), CALIFORNIA BUILDING CODE (CBC), CALIFORNIA FIRE CODE (CFC), CALIFORNIA MECHANICAL CODE (CMC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA 72) AND THE CALIFORNIA ENERGY CODE.
2. THE CONTRACTOR SHALL VISIT THE JOBSITE AND VERIFY ALL EXISTING CONDITIONS PRIOR TO BIDDING THE PROJECT AND SHALL INCLUDE IN THEIR BID THE NECESSARY COSTS TO CONSTRUCT THIS PROJECT IN ACCORDANCE WITH THE ELECTRICAL DRAWINGS, SPECIFICATIONS, AND ALL APPLICABLE CODES.
3. DRAWINGS INDICATE GENERAL ARRANGEMENT OF ELECTRICAL SYSTEMS AND WORK. FOLLOW THE DRAWINGS IN LAYING OUT WORK AND VERIFY EXACT LOCATIONS WITH ARCHITECTURAL FLOOR PLAN AND RCP DRAWINGS. ALSO, CHECK DRAWINGS OF OTHER TRADES TO VERIFY LOCATIONS OF EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS AND COORDINATE SPACE CONDITIONS WITH THEIR INSTALLATION. FINAL LOCATIONS SHALL BE ADJUSTED TO MEET FIELD CONDITIONS.
4. NOT EVERY ELECTRICAL RACEWAY, BOX, CONDUCTOR, ETC., FOR A COMPLETE ELECTRICAL INSTALLATION, IS SHOWN ON THESE DRAWINGS. THIS IS DONE FOR CLARITY PURPOSES AND EASE OF INTERPRETING DRAWINGS. PROVIDE ALL ADDITIONAL ITEMS REQUIRED TO MAKE THE ELECTRICAL SYSTEMS COMPLETE AND OPERATIONAL.
5. WORK PERFORMED UNDER THIS CONTRACT SHALL CONFORM TO THESE DRAWINGS AND SHALL ALSO COMPLY WITH THE ELECTRICAL SPECIFICATIONS. IN THE EVENT THAT THERE IS A DISCREPANCY BETWEEN THE DRAWINGS AND SPECIFICATIONS, THE MORE STRINGENT OF THE REQUIREMENTS SHALL TAKE PRECEDENT.
6. ALL NEW ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE UNDERWRITER'S LABORATORIES (UL) LISTED OR ELECTRICAL TESTING LABORATORIES (ETL) LISTED AND BEAR THEIR LABELS.
7. ALL ELECTRICAL MATERIALS SHALL BE NEW AND UNUSED, AND OF THE SAME MANUFACTURER OF LIKE EQUIPMENT AND/OR SYSTEMS.
8. MINIMUM CONDUIT TRADE SIZE FOR EXTERIOR APPLICATIONS SHALL BE 1.0", UNLESS OTHERWISE NOTED.
9. ALL UNDERGROUND BRANCH CIRCUIT CONDUITS SHALL HAVE A MINIMUM COVER OF 18", UNLESS OTHERWISE NOTED. INSTALL A WARNING/MARKER TAPE 6" OVER THE CONDUITS.
10. ALL UNDERGROUND FEEDER CONDUITS SHALL HAVE A MINIMUM COVER OF 24". WHERE FEEDER CONDUITS ARE INSTALLED UNDER ROADS OR PAVED SURFACE WITH VEHICLE TRAFFIC, THE MINIMUM COVER SHALL INCREASE TO 36". INCLUDE A MINIMUM 12" HORIZONTAL SEPARATION BETWEEN LOW-VOLTAGE AND LINE-VOLTAGE CONDUITS INSTALLED IN SAME TRENCH. INSTALL A WARNING/MARKER TAPE 12" OVER THE CONDUITS.
11. ALL UNDERGROUND CONDUITS ORIGINATING FROM BUILDING EXTERIOR AND TERMINATING IN ELECTRICAL EQUIPMENT WITHIN THE BUILDING INTERIOR SHALL BE SEALED AT BOTH ENDS AFTER CONDUCTORS ARE INSTALLED, TO PREVENT MOISTURE FROM COMING IN CONTACT WITH LIVE PARTS.
12. REFER TO LANDSCAPE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF SITE LIGHTING FIXTURES AND IRRIGATION CONTROLLERS.
13. SITE PULLBOXES FOR BRANCH CIRCUITING SHALL BE SIZED TO CODE MINIMUM REQUIREMENTS. OBTAIN APPROVAL FROM LANDSCAPE ARCHITECT FOR ANY PULLBOXES NEEDED TO FACILITATE SITE CONDUIT REQUIREMENTS.
14. PROVIDE CONCRETE BASES FOR ALL SITE POLE MOUNTED LUMINAIRES, BOLLARDS, AND SIGN LIGHTING, UNLESS OTHERWISE NOTED.
15. ALL GROUNDING ELECTRODES WITHIN BUILDING OR STRUCTURE SHALL BE BONDED TOGETHER TO FORM A SINGLE GROUNDING ELECTRODE SYSTEM.
16. ALL SEPARATELY DERIVED SYSTEMS SHALL COMPLY WITH CODE, CEC 250.104, FOR BONDING TO METAL WATER PIPING AND STRUCTURAL METAL.
17. FURNISH, INSTALL, AND CONNECT A CODE SIZED INSULATED OR BARE COPPER GROUND CONDUCTOR IN ALL BRANCH CIRCUITS AND FEEDER CONDUITS.
18. WHERE UNGROUNDED CONDUCTORS ARE INCREASED IN SIZE TO ACCOMMODATE VOLTAGE DROP, THE EQUIPMENT GROUND CONDUCTOR SHALL ALSO BE INCREASED IN SIZE PROPORTIONATELY, ACCORDING TO THE CIRCULAR MIL AREA OF UNGROUNDED CONDUCTORS.
19. ALL EQUIPMENT CONNECTED BY PERMANENT WIRING METHODS SHALL BE GROUNDED.
20. BRANCH CIRCUIT CONDUCTORS SHALL BE SIZED TO PREVENT VOLTAGE DROP EXCEEDING 3% AT THE FARTHEST OUTLET OR DEVICE. THE MAXIMUM VOLTAGE DROP ALLOWED ON COMBINED FEEDERS AND BRANCH CIRCUITS SHALL NOT EXCEED 5% TO THE FARTHEST OUTLET OR DEVICE.
21. ALL CONDUCTORS ON THIS PROJECT SHALL BE STRANDED COPPER.
22. CONDUCTORS 600VOLT OR LESS RATED SHALL UTILIZE THE AMPACITY OF THE 60-DEGREE C COLUMN OF CEC TABLE 310.16 FOR CONDUCTOR SIZES #14 AWG THROUGH #1 AWG. FOR CONDUCTOR SIZES OVER #1 AWG, UTILIZE AMPACITY FROM THE 75-DEGREE C COLUMN OF CEC TABLE 310.16.
23. MULTIWIRE BRANCH CIRCUITS SHALL ORIGINATE FROM THE SAME PANELBOARD.
24. MULTIWIRE BRANCH CIRCUITS SHALL BE PROVIDED WITH A MEANS TO SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE POINT WHERE THE BRANCH CIRCUIT ORIDINATES, I.E. HANDLE TIES OR MULTIPOLE CIRCUIT BREAKERS.
25. ALL MULTIWIRE BRANCH CIRCUITS SHOWN WITH THREE (3) CONSECUTIVE PHASE CONDUCTORS (e.g., 1,3,5 OR 4,6,8), NONE SHARING THE SAME PHASE, SHALL INCLUDE A DEDICATED NEUTRAL CONDUCTOR -THREE (3) HOTS AND ONE (1) NEUTRAL. CIRCUITING OUT OF PHASE ORDER (e.g., 1,5,7 OR 4,6,10) WILL REQUIRE AN ADDITIONAL NEUTRAL CONDUCTOR, -TWO (2) HOTS AND ONE (1) NEUTRAL PLUS ONE (1) HOT AND ONE (1) NEUTRAL.
26. ALL BRANCH CIRCUITING SHALL BE INSTALLED IN CONDUIT. USE OF MC TYPE CABLE IS PROHIBITED.
27. PROVIDE FEEDER CONDUCTOR SUPPORT IN VERTICAL RACEWAYS AS REQUIRED BY CODE, CEC 300.19.
28. WHERE MORE THAN THREE UNGROUNDED CONDUCTORS ARE ROUTED WITHIN A RACEWAY, THE CONTRACTOR SHALL APPLY THE DERATING FACTOR REQUIRED BY CODE.
29. MINIMUM CONDUIT TRADE SIZE FOR INTERIOR APPLICATIONS SHALL BE 0.75", UNLESS OTHERWISE NOTED.
30. CONDUIT ROUTING ON DRAWINGS IS ESSENTIALLY DIAGRAMMATIC. CONTRACTOR SHALL LAYOUT RUNS TO SUIT FIELD CONDITIONS, LIMITING BENDS AND BOXES, AND SHALL COORDINATE INSTALLATION WITH WORK OF OTHER TRADES.
31. ALL CONNECTIONS TO IRRIGATION PUMPS, ETC. SHALL BE MADE WITH A MINIMUM OF 36" SEALTIGHT FLEXIBLE METAL CONDUIT TO PREVENT SOUND AND VIBRATION TRANSMISSION TO THE STRUCTURE.
32. BUILDING EXPANSION JOINTS ARE NOT INDICATED ON THE ELECTRICAL DRAWINGS AND SHALL BE COORDINATED WITH THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INCLUDE FLEXIBLE EXPANSION RACEWAY AND WIRING METHODS AT JOINT LOCATIONS TO MEET THE DEFLECTION AND EXPANSION REQUIREMENTS OF THE BUILDING.
33. DRAWINGS INDICATE JUNCTION BOXES WITH CONDUIT/CONDUCTOR HOMERUNS FOR BRANCH CIRCUITING, AS WELL AS CIRCUIT NUMBERING ADJACENT TO EQUIPMENT, DEVICES, LUMINAIRES AND BOXES SERVED. THEY DO NOT INCLUDE CONNECTIONS BETWEEN DEVICES AND/OR LUMINAIRES. CONTRACTOR SHALL PROVIDE ALL RACEWAY AND CONDUCTOR CONNECTIONS BETWEEN THE DEVICES, LUMINAIRES, AND JUNCTION BOXES AS REQUIRED AND COORDINATED WITH FIELD CONDITIONS AND OTHER TRADES.
34. MAINTAIN A MINIMUM OF 12" BETWEEN ELECTRICAL RACEWAYS AND LOW-VOLTAGE TELECOMMUNICATION SYSTEM CABLING.
35. ALL JUNCTION AND PULL BOXES SHALL BE SIZED PER CODE TO ACCOMMODATE NUMBER OF CONDUITS AND/OR CONDUCTORS ROUTED TO AND FROM BOXES. ANY VAULTS/ PULL BOXES IN FLATWORK SHALL BE ALIGNED WITH FLATWORK JOINTING.
36. INSTALLATION OF EXPOSED CONDUIT IS PUBLIC SPACES IS PROHIBITED WITHOUT SPECIAL PERMISSION.
37. PROVIDE A PULL WIRE/TAPE IN ALL EMPTY CONDUIT RUNS OVER 15' IN LENGTH.
38. REQUIRED ELECTRICAL EQUIPMENT WORKING SPACE DEPTH SHALL NOT BE LESS THAN THAT INDICATED IN CEC TABLE 110.26(A)(1). THE WIDTH OF THE WORKING SPACE IN FRONT OF THE ELECTRICAL EQUIPMENT SHALL BE THE WIDTH OF THE EQUIPMENT OR 30", WHICHEVER IS GREATER. THIS REQUIREMENT ALSO APPLIES TO DISCONNECT SWITCHES.
39. PROVIDE ENGRAVED NAMEPLATES FOR ALL ELECTRICAL PANELBOARDS, SWITCHBOARDS, SWITCHGEAR, TRANSFORMERS, AND DISCONNECT SWITCHES, AS DESCRIBED IN THE SPECIFICATIONS.
40. CONTRACTOR SHALL ENSURE THAT THE ELECTRICAL EQUIPMENT PROVIDED UNDER THEIR CONTRACTOR WILL FIT WITHIN THE ELECTRICAL ROOMS AND SPACES PROVIDED IN THE BID DOCUMENTS, WHETHER PROVIDED BY THE SPECIFIED EQUIPMENT MANUFACTURER OR NOT. NO ADDITIONAL COMPENSATION WILL BE CONSIDERED IF CONTRACTOR NEEDS TO ADJUST EQUIPMENT PACKAGE TO OBTAIN REDUCED DIMENISONS.
41. CONTRACTOR IS RESPONSIBLE FOR SUBMITTING REVISED LAYOUTS OF DISTRIBUTION EQUIPMENT IN ELECTRICAL ROOMS AND/OR SPACES, FOR APPROVAL BY ENGINEER, IF PROPOSED INSTALLATION DIFFERS FROM CONSTRUCTION DOCUMENTS. SUBMISSION MUST BE REVIEWED PRIOR TO RELEASE OF EQUIPMENT AND PRIOR TO INSTALLATION.
42. ALL FLOOR AND/OR FREE-STANDING ELECTRICAL EQUIPMENT SHALL BE MOUNTED ON A 4" HIGH CONCRETE HOUSEKEEPING PAD, U.O.N.
43. OVERCURRENT PROTECTION SHOWN ON DRAWINGS FOR ALL MOTOR TYPE LOADS ARE BASED ON DOCUMENTS PROVIDED PRIOR TO BID. CONTRACTOR SHALL REVIEW EQUIPMENT SUBMITTALS AND SHOP DRAWINGS FOR HVAC, PLUMBING, FIRE PROTECTION, ELEVATORS, ETC. TO CONFIRM SIZES HAVE NOT CHANGED AND MAKE ADJUSTMENTS IF THEY HAVE.
44. ALL OUTDOOR ELECTRICAL EQUIPMENT SHALL BE WEATHERPROOF (NEMA 3R RATED, MINIMUM) AND LISTED FOR EXTERIOR APPLICATIONS.
45. WIRING SPACE IN PANELBOARDS, DISTRIBUTION BOARDS, SWITCHBOARDS, AND SWITCHGEAR SHALL BE DEDICATED TO CONDUCTORS TERMINATED IN THAT ENCLOSURE AND SHALL NOT BE USED AS PULL AND/OR SPLICE BOXES FOR CONDUCTORS THAT TERMINATE IN OTHER ENCLOSURES.
46. ALL CIRCUIT BREAKERS SERVING THE FIRE ALARM CONTROL PANEL AND FIRE ALARM SYSTEM COMPONENTS SHALL HAVE LOCKABLE HANDLES AND SHALL BE RED IN COLOR, FOR EASE IN IDENTIFICATION.
47. PROVIDE PROTECTION FROM PHYSICAL DAMAGE FOR ALL ELECTRICAL EQUIPMENT, LUMINAIRES, WIRING DEVICES, ETC., DURING THE CONSTRUCTION OF THE PROJECT.
48. MOUNTING HEIGHTS OF ALL WIRING DEVICES ARE DIMENSIONED TO THE CENTER OF THE DEVICE, UNLESS OTHERWISE NOTED.
49. PROVIDE INDIVIDUAL GFCI TYPE RECEPTACLES AT EACH LOCATION SHOWN ON DRAWINGS. DO NOT APPLY THE FEED-THROUGH METHOD OF PROTECTING A NON-GFCI RECEPTACLE DOWNSTREAM OF A GFCI RECEPTACLE.
50. WHERE RECEPTACLES ARE LOCATED OUTSIDE OR IN WET/DAMP LOCATIONS, PROVIDE WEATHERPROOF WHILE-IN-USE COVERPLATES.
51. ALL WIRING DEVICES AND JUNCTION BOX COVERS SHALL HAVE TYPE-ON-TAPE LABELS INDICATING THE PANELBOARD AND CIRCUIT NUMBER(S) SERVING EACH DEVICE.
52. CONTRACTOR SHALL SIZE ALL JUNCTION AND PULL BOXES PER THE MINIMUM CODE REQUIREMENTS OF CEC ARTICLE 314, UNLESS OTHERWISE NOTED ON DRAWINGS.
53. THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH THE ENERGY CODE.
54. LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).
55. A LISTING OF CERTIFIED ATT CAN BE FOUND AT HTTPS://WWW.ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN- CERTIFICATION-PROVIDER-PROGRAM/ACCEPTANCE
56. THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED, AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTRUCTION/INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA. PROJECT INSPECTORS WILL COLLECT THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

POWER DISTRIBUTION

	PANELBOARD, 277/480V, SURFACE MOUNTED ON WALL.
	PANELBOARD, 277/480V, FLUSH MOUNTED IN WALL.
	PANELBOARD, 120/208V, SURFACE MOUNTED ON WALL.
	PANELBOARD, 120/208V, FLUSH MOUNTED IN WALL.
	ELECTRIC MOTOR, NIEC. MAKE POWER CONNECTIONS ONLY AS NOTED ON PLANS.
F	EXHAUST FAN MOTOR, SINGLE PHASE, NIEC. MAKE POWER CONNECTIONS TO INCLUDE JUNCTION BOX MOUNTED, FRACTIONAL HORSEPOWER MANUAL MOTOR STARTER WITH INTEGRAL DISCONNECT ADJACENT TO FAN WITH 2 #12 CONDUCTORS PLUS GROUND IN 1/2" FLEXIBLE CONDUIT BETWEEN STARTER AND MOTOR.
P	PULLBOX OR HANDHOLE, SIZE AND TYPE AS NOTED ON PLANS.
S	SIGNAL PULLBOX OR HANDHOLE, SIZE AND TYPE AS NOTED ON PLANS.
A AF	SAFETY DISCONNECT SWITCH, 3 POLE, UON. ADJACENT NUMBER INDICATES FUSE SIZE WHEN APPLICABLE. LABELING CONVENTION AS FOLLOWS: A: 30A, NON-FUSED — AF: 30A, FUSED B: 60A, NON-FUSED — BF: 60A, FUSED C: 100A, NON-FUSED — CF: 100A, FUSED D: 200A, NON-FUSED — DF: 200A, FUSED E: 400A, NON-FUSED — EF: 400A, FUSED F: 600A, NON-FUSED — FF: 600A, FUSED G: 800A, NON-FUSED — GF: 800A, FUSED
1 ☒ 1 ☒	MAGNETIC MOTOR STARTER WITH INTEGRAL OVERCURRENT PROTECTION. ADJACENT NUMBER INDICATES NEMA SIZE OF STARTER. "HANDLE" DENOTES INTEGRAL DISCONNECT.
	DRIVEN GROUND ROD.
	DRIVEN GROUND ROD IN GROUND WELL WITH COVER.
▼	CABLE TO BUS TERMINATION LUGS.
	BOLTED PRESSURE OR HIGH PRESSURE CONTACT OR FUSED SWITCHES.
	GROUP MOUNTED MOLDED CASE CIRCUIT BREAKER.
	INDIVIDUALLY FIXED MOUNTED INSULATED-CASE OR POWER CIRCUIT BREAKER.
	INDIVIDUALLY DRAW-OUT MOUNTED INSULATED-CASE OR POWER CIRCUIT BREAKER.
52	MEDIUM-VOLTAGE, INDIVIDUALLY DRAW-OUT MOUNTED VACUUM CIRCUIT BREAKER.
G	GROUND FAULT RELAY INTEGRAL WITH CIRCUIT BREAKER.
EO	ELECTRICALLY OPERATED CIRCUIT BREAKER, INTEGRAL.
ST	SHUNT-TRIP INTEGRAL WITH OVERCURRENT PROTECTION DEVICES.
M	PRIVATE METER, MOUNTED INTEGRAL WITH OVERCURRENT PROTECTION OR SEPARATE WITHIN SWITCHGEAR.
M	UTILITY METER, MOUNTED IN UTILITY METER SECTION OF SWITCHGEAR OR SWITCHBOARDS.
M	PRIVATE METER, MOUNTED IN SEPARATE ENCLOSURE FROM SWITCHGEAR OR SWITCHBOARDS.
SPD	SURGE PROTECTION DEVICE, 'SPD'.
DMU	DIGITAL METERING UNIT.

LINESTYLES

	EXISTING TO REMAIN
	EXISTING TO BE REMOVED (R) OR RELOCATED (RR)
	NEW CONSTRUCTION
	FUTURE CONSTRUCTION

CONVENTIONS

1	NUMBERED NOTE, APPLIES TO ALL DRAWINGS.
1	NUMBERED SHEET NOTE, APPLIES TO DRAWING CONTAINING NOTES ONLY.
1	OVERCURRENT PROTECTIVE DEVICE NUMBER IDENTIFICATION TAG. REFERS TO LOCATION OF PROTECTIVE OR CONTROL DEVICE WITHIN SWITCHBOARDS, DISTRIBUTION BOARDS, MOTOR CONTROL CENTERS, ETC.
EQ ##	EQUIPMENT IDENTIFICATION TAG: ITEM FURNISHED AND INSTALLED UNDER ANOTHER DIVISION AND WIRED UNDER THIS DIVISION.
2004	FEEDER TAG. REFER TO FEEDER SCHEDULE.
1 E-801	DETAIL REFERENCE: DETAIL DESIGNATION SHEET NUMBER
2 - F3	LUMINAIRE IDENTIFICATION TAG: FIXTURE TYPE QUANTITY

RACEWAYS

	CONDUIT RUN EXPOSED ON WALL OR CEILING.
	CONDUIT RUN CONCEALED IN SLAB, UNDER SLAB OR UNDERGROUND.
	CONDUIT RUN CONCEALED IN WALL OR ABOVE CEILING.
	CONDUIT HOMERUN, CONTINUOUS RUN TO PANEL OR EQUIPMENT CABINET. HOMERUN CAN OCCUR ON ANY OF THE ABOVE ROUTING CONDITIONS.
	CONDUIT TURNED UP, CAN OCCUR ON ANY OF THE ABOVE ROUTING CONDITIONS.
	CONDUIT TURNED DOWN, CAN OCCUR ON ANY OF THE ABOVE ROUTING CONDITIONS.
	CONDUIT CAPPED OR STUBBED WITH INSULATED BUSHINGS, CAN OCCUR ON ANY OF THE ABOVE ROUTING CONDITIONS.
	CONDUIT SLEEVE, WITH INSULATING BUSHINGS.
	FLEXIBLE METALLIC CONDUIT, EQUIPMENT CONNECTION.
	CROSSMARKS ON BRANCH CIRCUIT CONDUIT RUNS INDICATE THE QUANTITY OF CONDUCTORS AS FOLLOWS (GROUND CONDUCTORS ARE NOT NOTED, BUT SHOULD BE INCLUDED IN EVERY CONDUIT WITH POWER CONDUCTORS): 1. NO CROSSMARKS INDICATES TWO #12 AWG CONDUCTORS, UON. 2. THREE TO SIX CROSSMARKS INDICATES THE QUANTITY OF #12 AWG CONDUCTORS, UON. 3. SEVEN OR MORE CROSSMARKS INDICATES THE QUANTITY OF #10 AWG CONDUCTORS, UON.
	SURFACE RACEWAY; TYPE, DEVICE SPACING AND MOUNTING AS NOTED ON PLANS.
	CABLE TRAYS/RUNWAYS, REFER TO PLANS AND/OR SPECS FOR SIZE AND MOUNTING.

WIRING DEVICES

J	JUNCTION BOX, WALL MOUNTED, +18" UON.
J	JUNCTION BOX, MOUNTED IN FLUSH FLOOR BOX.
J	JUNCTION BOX, MOUNTED FLUSH IN CEILING.
J	JUNCTION BOX, SURFACE OR PENDANT MOUNTED TO BOTTOM OF STRUCTURE IN ACCESSIBLE CEILING SPACE OR EXPOSED IN OPEN CEILING AREAS.
J	JUNCTION BOX, MOUNTED ON CONDUIT STANCHION FLOOR PENETRATION, +12" UON.
	SINGLE-PLEX CONVENIENCE RECEPTACLE DEVICE, WALL MOUNTED, +18" UON.
	DUPLEX CONVENIENCE RECEPTACLE DEVICE, WALL MOUNTED, +18" UON. LETTERING ADJACENT TO THE DEVICE ON THE PLANS INDICATE THE FOLLOWING FOR THOSE RECEPTACLES. A: ARC FAULT CURRENT INTERRUPTER (AFCI) G: GROUND FAULT CURRENT INTERRUPTER (GFCI) IG: ISOLATED GROUND TR: TAMPER RESISTANT U: INTEGRAL USB PORTS WP: WEATHER-RESISTANT, GROUND FAULT CURRENT INTERRUPTER (GFCI) WITH WEATHERPROOF "IN USE" COVER
	DOUBLE DUPLEX CONVENIENCE RECEPTACLE DEVICE, WALL MOUNTED, +18" UON.
	SPECIALTY OUTLET DEVICE, NEMA CONFIGURATION TYPE AS NOTED ON PLANS, WALL MOUNTED, +18" UON.

LIGHTING

	LUMINAIRE, RECESSED IN CEILING.
	LUMINAIRE, SURFACE MOUNTED.
	SUSPENDED LINEAR LUMINAIRE. SUSPENSION POINTS ARE GRAPHIC ONLY AND DO NOT REPRESENT ACTUAL LOCATION OR QUANTITY.
	LUMINAIRE, WALL MOUNTED.
	STRIP LUMINAIRE, SURFACE OR PENDANT MOUNTED.
	SHADING OF ANY LUMINAIRE INDICATES CRITICAL/STANDBY LIGHTING.
	HALF SHADING OF ANY LUMINAIRE INDICATES EMERGENCY/EGRESS LIGHTING.
	SINGLE-HEAD AREA LUMINAIRE WITH BRACKET ARM AND POLE, MOUNTED TO CONCRETE BASE.
	TWO-HEAD AREA LUMINAIRE WITH BRACKET ARMS AND POLE, MOUNTED TO CONCRETE BASE.
	SINGLE-HEAD AREA POST-TOP LUMINAIRE WITH POLE, MOUNTED TO CONCRETE BASE.
	AREA LUMINAIRE, SURFACE OR RECESSED MOUNTED TO WALL.
	LUMINAIRE BOLLARD, MOUNTED TO CONCRETE BASE.

LINE VOLTAGE LIGHTING CONTROL

S	SINGLE-POLE, SINGLE-THROW SWITCH, WALL MOUNTED, +42" UON.
S^3	THREE-WAY SWITCH, WALL MOUNTED, +42" UON.
S^4	FOUR-WAY SWITCH, WALL MOUNTED, +42" UON.
S^K	SINGLE-POLE, SINGLE-THROW SWITCH, KEY-OPERATED, WALL MOUNTED, +42" UON.
S^P	SINGLE-POLE, SINGLE-THROW SWITCH, WITH PILOT LIGHT, WALL MOUNTED, +42" UON.
S^D	WALLBOX DIMMER SWITCH, +42" UON. SIZED PER CONNECTED LOAD ON PLANS AND FURNISHED FOR LAMP SOURCE SERVED. PROVIDED FOR DERATING WHEN INSTALLED GANGED LOCATIONS.
S^{TC}	SINGLE-POLE, TIMER CONTROLLED SWITCH, WALL MOUNTED, +42" UON.
S^{EP}	SINGLE-POLE, SINGLE-THROW SWITCH, EXPLOSION PROOF, WALL MOUNTED, +42" UON.
S^V	LINE VOLTAGE SINGLE RELAY VACANCY SENSOR, WALL MOUNTED, +42" UON.
S^{WP}	SINGLE-POLE, SINGLE-THROW SWITCH WITH WEATHERPROOF COVER, WALL MOUNTED, +42" UON.
S^H	SINGLE-POLE SWITCH WITH AUTOMATIC HUMIDITY CONTROL, WALL MOUNTED, +42" UON.
S^M	DUAL LEVEL OCCUPANCY SENSOR SWITCH, WALL MOUNTED, +42" UON.
S^{M1}	SINGLE LEVEL OCCUPANCY SENSOR SWITCH, WALL MOUNTED, +42" UON.
S^{DM}	COMBINATION OCCUPANCY SENSOR AND DIMMER SWITCH, WALL MOUNTED, +42" UON.
OS	OCCUPANCY SENSOR FOR AREA COVERAGE, CEILING MOUNTED.
PC	PHOTOELECTRIC CELL SENSOR, CEILING MOUNTED.
ETD	EGRESS LIGHTING TRANSFER DEVICE.
924	BYPASS DEVICE FOR CONTROLLED EMERGENCY LIGHTING.

TELECOMMUNICATIONS

	TELECOMMUNICATION DEVICE, WALL MOUNTED, +18" UON.
	TELECOMMUNICATION DEVICE, WALL MOUNTED, 6" ABOVE BACK SPLASH UON, BUT NO HIGHER THAN ADA REQUIREMENTS.
W	TELEPHONE DEVICE, WALL MOUNTED, +42" UON.
	TELECOMMUNICATION DEVICE, MOUNTED IN FLUSH FLOOR BOX.
	TELECOMMUNICATION DEVICE, MOUNTED IN FIRE-RATED POKE-THRU FLOOR FITTING.
	TELECOMMUNICATION DEVICE, CEILING MOUNTED.
	COMBINATION POWER/TELECOMMUNICATION DEVICES, MOUNTED IN FLUSH FLOOR BOX. TYPE AS NOTED ON PLANS OR IN SPECIFICATIONS.
	COMBINATION POWER/TELECOMMUNICATION DEVICES, MOUNTED IN FIRE-RATED POKE-THRU FLOOR FITTINGS. TYPE AS NOTED ON PLANS OR IN SPECIFICATIONS.
	ELECTRIFIED FURNITURE PARTITION TELECOMMUNICATION CABLE FEED, WALL MOUNTED, +18" UON. CONSISTS OF 4 11/16" SQ. X 2 1/8" DEEP JUNCTION BOX, SINGLE GANG RING, AND STAINLESS STEEL COVERPLATE WITH 1.25" KO AND GROMMET.
	ELECTRIFIED FURNITURE PARTITION COMBINATION POWER/TELECOMMUNICATION FEEDS, MOUNTED IN FLUSH FLOOR BOX WITH KO'S IN COVERS TO ACCEPT FURNITURE WHIPS. TELECOMMUNICATIONS WHIP SHALL BE 1.25" MINIMUM.
	ELECTRIFIED FURNITURE PARTITION TELECOMMUNICATION CABLE FEEDS, MOUNTED IN FIRE-RATED POKE-THRU THRU FLOOR FITTING WITH 1.25" KO'S IN COVER TO ACCEPT FURNITURE WHIPS.
WAP	WIRELESS ACCESS POINT, WALL MOUNTED, 8" BELOW FINISHED CEILING, UON.
WAP	WIRELESS ACCESS POINT, CEILING MOUNTED.
#D/#V	QUANTITY OF DATA AND/OR VOICE TELECOMMUNICATIONS DEVICES.
EL	TELECOMMUNICATION DEVICE, WALL MOUNTED, +18" UON, FOR ELEVATOR USE IN ELEVATOR MACHINE/CONTROLLER ROOM.
EM	TELECOMMUNICATION DEVICE, FOR EMERGENCY PHONES, MOUNTED AS NOTED ON PLANS.

SECURITY

	90, 180, 270, 360 DEGREE CCTV CAMERA, CEILING OR PENDANT MOUNTED AS NOTED ON PLANS.
	PAN/TILT/ZOOM (PTZ) CCTV CAMERA, CEILING MOUNTED.
	90, 180, 270 DEGREE CCTV CAMERA, WALL MOUNTED.
	PAN/TILT/ZOOM (PTZ) CCTV CAMERA, WALL MOUNTED.

ABBREVIATIONS

A	AMPERES	KO	CONDUIT KNOCKOUT
AFI	ARC FAULT CIRCUIT INTERRUPTER	LCP	LIGHTING CONTROL PANEL
AF	AMPERE OVERCURRENT FRAME SIZE (WHEN APPLIED TO CIRCUIT BREAKERS) OR AMPERE FUSE SIZE (WHEN APPLIED TO FUSES)	MBGB	MAIN BUILDING GROUND BUS
		MCB	MAIN CIRCUIT BREAKER
		MCC	MOTOR CONTROL CENTER
AFF	ABOVE FINISHED FLOOR	MDF	MAIN DISTRIBUTION FRAME
AIC	ASYMMETRIC INTERRUPTING CURRENT	MLO	MAIN LUGS ONLY
AL	ALUMINUM	MTC	EMPTY CONDUIT
AT	AMPERE OVERCURRENT TRIP (WHEN APPLIED TO CIRCUIT BREAKERS)	MTS	MANUAL TRANSFER SWITCH
AV	AUDIO / VIDEO	(N)	NEW
ATS	AUTOMATIC TRANSFER SWITCH	NC	NORMALLY CLOSED
BAS	BUILDING AUTOMATION SYSTEM	NF	NON-FUSED
BPS	BOLTED PRESSURE CONTACT SWITCH	NIEC	NOT IN ELECTRICAL CONTRACT
C	CONDUIT	NL	NIGHT LIGHT, UNSWITCHED
CCTV	CLOSED CIRCUIT TELEVISION	NO	NORMALLY OPEN
CEC	CALIFORNIA ELECTRICAL CODE	NTS	NOT TO SCALE
CL	CURRENT LIMITING CIRCUIT BREAKER OR FUSE	OC	ON CENTER
		OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
CP	CIRCULATION PUMP		
CT	CURRENT TRANSFORMER	PA	PUBLIC ADDRESS
CU	COPPER	PDZ	PRIMARY DAYLIGHT ZONE
DF	DRINKING FOUNTAIN	PNL	PANEL
(E)	EXISTING TO REMAIN	PQM	POWER QUALITY METER
EC	ELECTRICAL CONTRACTOR	PT	POTENTIAL TRANSFORMER
EF	EXHAUST FAN	PVC	POLYVINYL CHLORIDE
EP	EXPLOSION PROOF	(R)	EXISTING TO BE REMOVED
EPO	EMERGENCY POWER OFF	(RR)	REMOVE AND RELOCATE
EMT	ELECTRICAL METALLIC TUBING	SAD	SEE ARCHITECTURAL DRAWINGS
EWH	ELECTRIC WATER HEATER	TC	TIME CLOCK
F	FUSED	TP	TWISTED-PAIR
(F)	FUTURE	SDZ	SECONDARY DAYLIGHT ZONE
FACP	FIRE ALARM CONTROL PANEL	SPD	SURGE PROTECTION DEVICE
FFCP	FIREMAN'S FAN CONTROL PANEL	TX	TRANSFORMER
FLA	FULL LOAD AMPERES	TYP	TYPICAL
FMC	FLEXIBLE METAL CONDUIT	UON	UNLESS OTHERWISE NOTED
FSD	FIRE/SMOKE DAMPER	UPS	UNINTERRUPTIBLE POWER SUPPLY
FRAP	FIREMAN'S REMOTE ANNUNCIATOR PANEL	V	VOLTS
		VA	VOLTS-AMPS
G	GROUND	VFD	VARIABLE FREQUENCY DRIVE
GB	GROUND BUS	VM	VENDING MACHINE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	WAP	WIRELESS ACCESS POINT
GND	GROUND	WP	WEATHERPROOF
GRAP	GENERATOR REMOTE ANNUNCIATOR PANEL	2SP	TWO SPEED
GRC	GALVANIZED RIGID CONDUIT	1Ø	1-PHASE
HNC	HOME NETWORK CABINET	3Ø	3-PHASE
HPC	HIGH PRESSURE CONTACT SWITCH	1P	1-POLE
IDF	INTERMEDIATE DISTRIBUTION FRAME	2P	2-POLE
IG	ISOLATED GROUND	3P	3-POLE
INV	INVERTER	3W	3-WIRE
IMC	INTERMEDIATE METAL CONDUIT	4W	4-WIRE

APPLIANCES

DO	DOUBLE OVEN	MW	MICROWAVE
DW	DISHWASHER	RF	REFRIGERATOR
ED	ELECTRIC DRYER	RH	RANGE HOOD
EO	ELECTRIC OVEN/RANGE	UR	UNDERCOUNTER REFRIGERATOR
GD	GARBAGE DISPOSER	WC	WINE COOLER
GR	GAS RANGE	WM	WASHING MACHINE

ELECTRICAL SHEET INDEX

SHEET NO.	SHEET NAME	CONSTRUCTION DOCUMENTS
E000	SYMBOLS, PROJECT NOTES, AND SHEET INDEX	●
E001	SCHEDULES, DIAGRAMS, AND DETAILS	●
E002	TITLE 24	●
E100	OVERALL ELECTRICAL SITE PLAN	●
E200	ENLARGED BASEBALL FIELD ELECTRICAL PLAN	●
E201	ENLARGED SOFTBALL FIELD ELECTRICAL PLAN	●
E300	FIRE ALARM RISER, SCHEDULES, NOTES & DETAILS	●
E301	FIRE ALARM CALCULATIONS	●
E400	ELECTRICAL DETAILS	●

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SEAL
#E015491
Exp. 06/30/25
SCOTT WHEELER
ELECTRICAL

PROJECT
MCCLATCHY HIGH SCHOOL
ATHLETIC FIELDS RENOVATION

3066 FREEPORT BLVD,
SACRAMENTO, CA 95818

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

5735 47TH AVENUE, SACRAMENTO, CA 95824

ISSUED

MARK	DATE	DESCRIPTION
	8/17/2023	DSA SUBMITTAL
	12/7/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

LIONAKIS PROJECT NO: 023040
DSA APPLICATION NO: 02-121610
CLIENT PROJECT NO: 23-109
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TITLE
SYMBOLS, PROJECT NOTES, AND SHEET INDEX

SHEET
E000

IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY

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LUMINAIRE SCHEDULE

TYPE	MANUFACTURER CATALOG NUMBER	DESCRIPTION	LIGHT SOURCE	DRIVER, TRANSFORMER	WATTAGE	VOLTAGE	DETAIL
SF1	GARDCO PUREFORM P26-48L-500-NW-G2-AR-3-UNV-BL-IMRI3-(FINISH TBD) OR APPROVED EQUAL	HIGH PERFORMANCE, LOW PROFILE, FULL CUT-OFF LED AREA LIGHT, DIE-CAST ALUMINUM HOUSING WITH INTEGRAL MOUNTING BLOCK AND ARM, INTEGRAL HEAT SINK FINS, AND TEXTURED POLYESTER POWDERCOAT FINISH (COLOR TO BE DETERMINED BY THE ARCHITECT). PROVIDE WITH TYPE 3 OPTICAL SYSTEM AND INTEGRAL MOTION/AMBIENT LIGHT SENSOR, PROGRAMMED TO DIM TO 30% LIGHT OUTPUT WHEN NO MOTION IS DETECTED FOR 15 MIN AND FULL OFF WHEN NO MOTION IS DETECTED FOR 20 MIN. PROVIDE WITH 20' TALL, 4" SQUARE STRAIGHT STEEL POLE. FINISH TO MATCH THE FIXTURE FINISH. BUG RATING B2-U0-G2.	48-LED ARRAY 4000K 500mA ~10,755 LUMEN	0-10V DIMMING LED DRIVER	74 W	UNIV	3/E400
SF1A	GARDCO PUREFORM P26-48L-500-NW-G2-AR-5-UNV-BL-IMRI3-(FINISH TBD) OR APPROVED EQUAL	SAME AS FIXTURE TYPE SF1, WITH TYPE 5 DISTRIBUTION.	48-LED ARRAY 4000K 500mA ~10,755 LUMEN	0-10V DIMMING LED DRIVER	74 W	UNIV	3/E400
SF1B	GARDCO PUREFORM P26-48L-500-NW-G2-AR-5-UNV-BL-IMRI3-(FINISH TBD) OR APPROVED EQUAL	SAME AS FIXTURE TYPE SF1A, BUT WITH 24" DIA. 36" HIGH CONCRETE BASE.	48-LED ARRAY 4000K 500mA ~10,755 LUMEN	0-10V DIMMING LED DRIVER	74 W	UNIV	4/E400
SF2	RAB PORTO PRT-55W-N-WS OR APPROVED EQUAL	SURFACE MOUNTED LED LIGHT, WITH DIE CAST ALUMINUM AND SHEET METAL HOUSING, FROSTED POLYCARBONATE LENS, INTEGRAL SENSOR. IP66 RATED, PROGRAM INTEGRAL SENSOR PER DIRECTION FROM THE OWNER.	LED 4000K ~6,236 LUMEN	0-10V DIMMING LED DRIVER	55 W	120 V	

FEEDER SCHEDULE

FEEDER SCHEDULE GENERAL NOTES

1. COPPER FEEDER SIZES SHOWN IN THIS SCHEDULE ARE BASED ON CONDUCTORS WITH THHN/THWN-2 INSULATION IN EMT CONDUIT.
2. ALUMINUM FEEDER SIZES SHOWN IN THIS SCHEDULE ARE BASED ON CONDUCTORS WITH XHHW-2 INSULATION IN EMT CONDUIT.
3. FEEDER SIZES SHOWN IN THIS SCHEDULE ARE BASED ON AN AMBIENT TEMPERATURE OF 30 DEGREES C (86 DEGREES F).
4. FEEDERS CONSISTING OF MULTIPLE SETS OF CONDUCTORS AND CONDUITS ARE TO BE PROVIDED WITH THE INDICATED SIZE GROUND CONDUCTOR IN EACH CONDUIT.
5. PER CEC ARTICLE 110.14, ALL FEEDERS SIZED AT #2 AWG OR LESS ARE CALCULATED PER 60 DEGREE TABLE. FEEDERS GREATER THAN #2 AWG ARE RATED 75 DEGREE.

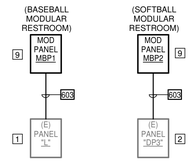
FEEDER SCHEDULE REMARKS

A. OVERSIZED 150% NEUTRAL, SUITABLE FOR SERVICE FROM K-13 RATED TRANSFORMERS.
B. FEEDER APPROVED FOR USE WITH SEPARATELY DERIVED SYSTEM; GROUNDING AS REQUIRED BY CEC ARTICLES 240 AND 250.
C. FEEDER GROUND AND BONDING JUMPER SHALL HAVE AN AREA NOT LESS THAN 12.5% OF THE AREA OF THE LARGEST PHASE CONDUCTOR.
D. INCREASE CONDUIT TO THE NEXT LARGER TRADE SIZE WHEN USING SCHEDULE 40 OR 80 PVC CONDUIT.
E. PER CEC SECTION 240.4(B), FOR OVERCURRENT DEVICES RATED 800A OR LESS, THE NEXT HIGHER STANDARD OVERCURRENT DEVICE RATING (ABOVE THE AMPACITY OF THE CONDUCTORS) CAN BE USED. RULE CAN NOT BE APPLIED IF 100% RATED BREAKERS ARE USED.
F. PER CEC 240.21(C), THE PROVISIONS OF 240.4(B) SHALL NOT BE PERMITTED FOR TRANSFORMER SECONDARY CONDUCTORS.

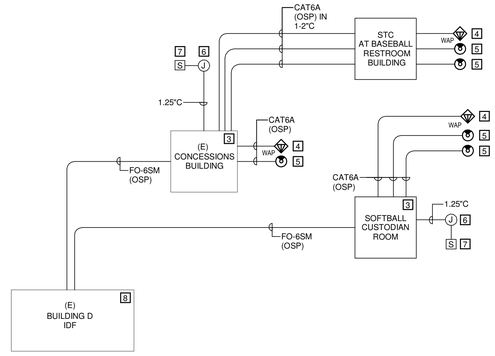
FEEDER TAG	FEEDER DESCRIPTION	CONDUIT	CONDUCTORS		SEPARATELY DERIVED SYSTEM		REMARKS
			PHASE/NEUTRAL	GROUND	GROUNDING ELECTRODE	BONDING JUMPER	
603	55 AMP, 3 WIRE	1-1.00"	3 #6 CU	1 #10 CU	-	-	E

NUMBERED SHEET NOTES

1. PANEL 'L' IS CONNECTED TO A 120/240V DELTA SYSTEM, WITH A 'STINGER' C-PHASE. PROVIDE A 60A/2-POLE BREAKER ON THE A/B PHASE AT NEXT AVAILABLE SPACE FOR LOAD CENTER AT BASEBALL MODULAR RESTROOM BUILDING.
2. PROVIDE A 60A/2-POLE BREAKER AT EXISTING DISTRIBUTION PANEL 'DP3' AT NEXT AVAILABLE SPACE FOR LOAD CENTER AT SOFTBALL MODULAR RESTROOM BUILDING.
3. PROVIDE 8-PORT MEDIA CONVERTER (ALTRONIX NETWAYSP8X OR EQUAL). PROVIDE 120V CIRCUIT TO POWER SUPPLY WITHIN ENCLOSURE.
4. TYPICAL, PROVIDE WIRELESS ACCESS POINT PER PLANS, AT +12'-0" AFF.
5. TYPICAL, PROVIDE SECURITY CAMERA PER PLANS, AT +12'-0" AFF.
6. PROVIDE 1.25"C TO 4" SQ BOX FOR FUTURE USE AT BACKSTOP.
7. PROVIDE 1.25"C TO SCOREBOARD LOCATION.
8. TERMINATE FIBER ON NEW FIBER PATCH PANEL.
9. LOAD CENTER PROVIDED MY MODULAR BUILDING MANUFACTURER. REFER TO MODULAR BUILDING PLANS. CONTRACTOR TO USE EXISTING SPARE OR PROVIDE NEW BREAKERS AS REQUIRED TO ACCOMMODATE NEW LOADS SHOWN. MODULAR BUILDING LOADS NOT SHOWN, ADJUST CIRCUITING AS REQUIRED.



1 POWER ONE-LINES
SCALE:NTS



2 LOW VOLTAGE RISER DIAGRAM
SCALE:NTS

Branch Panel: PANEL MBP1 9

Location: EXT. BASEBALL RESTROOM **Served From** (E) PANEL L **Phases** 1 **A.I.C. Rating:** 10K **Bus Rating** 100 A
Mounting: SURFACE **Volts:** 120/240 **Wires** 3 **Main Type:** MCB **Main Rating:** 60 A

LC	Load Served	Amp	P	#	A (kVA)		B (kVA)		#	P	Amp	Load Served	LC
Nc	(1) EEMAX WATER HEATER	30 A	1	1	3.00	0.37			2	1	20 A	(1) LIGHTS/FAN	L
Nc	(1) EEMAX WATER HEATER	30 A	1	3			3.00	0.37	4	1	20 A	(1) LIGHTS/FAN	L
--	space	--	1	5	--	0.12			6	1	20 A	(1) EXTERIOR LIGHTS	L
--	space	--	1	7			--	0.72	8	1	20 A	(1) RECEPT.	R
--	DED - SOLAR READY	--	1	9	--	--			10	1	--	space	--
--	DED - SOLAR READY	--	1	11			--	--	12	1	--	space	--
Nc	BASEBALL SCOREBOARD	20 A	2	13	0.50	0.54			14	1	20 A	REC BASEBALL VISITOR SIDE	R
				15			0.50	0.72	16	1	20 A	REC BASEBALL HOME SIDE	R
L	BASEBALL POLE LTG	20 A	2	17	0.07	0.36			18	1	20 A	REC BASEBALL CAGE	R
				19			0.07	0.33	20	1	20 A	BASEBALL CAGE LTG	L
--	SPARE	20 A	1	21	0.00	0.18			22	1	20 A	BASEBALL BACKSTOP	R
--	SPARE	20 A	1	23			0.00	0.00	24	1	20 A	SPARE	--
					Total Load:	5.14 kVA		5.71					
					Total Amps:	43 A		47.58 A					

Load Classification	Conn. Load	Demand Factor	Code Demand	Panel Totals	
Lighting	1.33 kVA	125.00%	1.66 kVA	**Connected Load:**	10.85 kVA
Receptacle	2.52 kVA	100.00%	2.52 kVA	**Connected Amps:**	45.21 A
Non-Continuous	7 kVA	100.00%	7 kVA	**Code Demand Load:**	11.18 kVA
				Code Demand Amps:	46.59 A

Notes:
(1) EXISTING MODULAR BUILDING LOAD, REFER TO MODULAR BUILDING ELECTRICAL PLANS.

Branch Panel: PANEL MBP2 9

Location: EXT. SOFTBALL RESTROOM **Served From** (E) PANEL DP3 **Phases** 1 **A.I.C. Rating:** 10K **Bus Rating** 100 A
Mounting: SURFACE **Volts:** 120/240 **Wires** 3 **Main Type:** MCB **Main Rating:** 60 A

LC	Load Served	Amp	P	#	A (kVA)		B (kVA)		#	P	Amp	Load Served	LC
Nc	(1) WATER HEATER	20 A	1	1	1.50	0.37			2	1	20 A	(1) LIGHTS/FAN	L
--	space	--	1	3			--	0.18	4	1	20 A	(1) LIGHTS/FAN	L
--	DED - SOLAR READY	--	1	5	--	0.09			6	1	20 A	(1) EXT. LIGHTS	L
--	DED - SOLAR READY	--	1	7			--	0.54	8	1	20 A	(1) RECEPT.	R
--	space	--	1	9	--	--			10	1	--	space	--
--	space	--	1	11			--	--	12	1	--	space	--
Nc	SOFTBALL SCOREBOARD	20 A	2	13	0.50	0.72			14	1	20 A	REC SOFTBALL VISITOR SIDE	R
				15			0.50	0.54	16	1	20 A	REC SOFTBALL HOME SIDE	R
L	SOFTBALL POLE LTG	20 A	2	17	0.11	0.36			18	1	20 A	REC SOFTBALL CAGE	R
				19			0.11	0.33	20	1	20 A	SOFTBALL CAGE LTG	L
--	SPARE	20 A	1	21	0.00	0.18			22	1	20 A	SOFTBALL BACKSTOP	R
--	SPARE	20 A	1	23			0.00	0.18	24	1	20 A	CUSTODIAN IDF CABINET	R
					Total Load:	3.83 kVA		2.38					
					Total Amps:	32 A		19.87 A					

Load Classification	Conn. Load	Demand Factor	Code Demand	Panel Totals	
Lighting	1.19 kVA	125.00%	1.49 kVA	**Connected Load:**	6.21 kVA
Receptacle	2.52 kVA	100.00%	2.52 kVA	**Connected Amps:**	25.88 A
Non-Continuous	2.5 kVA	100.00%	2.5 kVA	**Code Demand Load:**	6.51 kVA
				Code Demand Amps:	27.12 A

Notes:
(1) EXISTING MODULAR BUILDING LOAD, REFER TO MODULAR BUILDING ELECTRICAL PLANS.

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CONSULTANT

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SEAL

REGISTERED PROFESSIONAL ENGINEER #E015481 Exp. 06/30/25 SCOTT WHEELER ELECTRICAL STATE OF CALIFORNIA

PROJECT
MCCLATCHY HIGH SCHOOL ATHLETIC FIELDS RENOVATION

3066 FREEPORT BLVD,
SACRAMENTO, CA 95818

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

5735 47TH AVENUE, SACRAMENTO, CA 95824

ISSUED

MARK	DATE	DESCRIPTION
	8/17/2023	DSA SUBMITTAL
	12/7/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

LIONAKIS PROJECT NO:	023040
DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	23-109
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TITLE
SCHEDULES, DIAGRAMS, AND DETAILS

SHEET
E001

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
This document is used to demonstrate compliance with requirements in 110.9, 130.0, 130.2, 140.7, and 141.0(b)2L for outdoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e)6, 180.1(a) and 180.2(b)4Bv for outdoor lighting scopes using the prescriptive path for multifamily and mixed-use occupancies. Multifamily includes dormitory and senior living facilities.	
Project Name: McClatchy High School Athletic Field Renovation	**Report Page:** (Page 1 of 8)
Project Address: 5735 47th Avenue, Sacramento, CA 95823	**Date Prepared:** 2023-08-10T13:11:48-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Sacramento	04	Total Illuminated Hardscape Area (ft²)	18048
02	Climate Zone	12			
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 - Urban Clusters	☐	LZ-4: High - Must be reviewed by CA Energy Commission for Approval
☐	LZ-1: Low - Rural Areas	☒	LZ-3: Moderately High - Urban Areas		
05	Occupancy Types within Project				
● School or Classroom					

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 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv for alterations.

My Project Consists of:

01	02		
☒ New Lighting System	Must Comply with Allowances from 140.7 / 170.2(e)6		
☐ 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.*

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
Project Name: McClatchy High School Athletic Field Renovation	**Report Page:** (Page 2 of 8)
	Date Prepared: 2023-08-11T19:24:00-04:00

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through N. 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 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv												Compliance Results		
01		02		03		04		05		06		07	08	09
General Hardscape Allowance 140.7(d)1 / 170.2(e)6 (See Table I)	+	Per Application 140.7(d)2 / 170.2(e)6 (See Table J)	+	Sales Frontage 140.7(d)2 (See Table K)	+	Ornamental 140.7(d)2 / 170.2(e)6 (See Table L)	+	Per Specific Area 140.7(d)2 / 170.2(e)6 (See Table M)	OR	Existing Power Allowance 141.0(b)2L / 180.2(b)4Bv (See Table N)	=	**Total Allowed** (Watts)	≥	**Total Actual** (Watts)	**07 must be >= 08**
1,083.34	+	---	+	---	+	---	+	---	OR	---	=	1,083.34	≥	971	COMPLIES
Shielding Compliance (See Table G for Details)															COMPLIES
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
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
Project Name: McClatchy High School Athletic Field Renovation	**Report Page:** (Page 3 of 8)
	Date Prepared: 2023-08-11T19:24:00-04:00

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 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). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

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) / 170.2(e)6A	Design Watts	Cutoff Req. > 6,200 initial lumen output 130.2(b) / 160.5(c)1[4]	Field Inspector	
										Pass	Fail
SF1/SF1A/SF1B	Area Pole Light	☐ Linear	70	Mfr. Spec	5	New	☐	350	Provided	☐	☐
SF2	Floodlight	☐ Linear	69	Mfr. Spec	9	New	☐	621	Provided	☐	☐
							Total Design Watts:	971			

* 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) / 160.5(b)*
[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 shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b)/ 160.5(c)*

STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
Project Name: McClatchy High School Athletic Field Renovation	**Report Page:** (Page 4 of 8)
	Date Prepared: 2023-08-11T19:24:00-04:00

G. SHIELDING REQUIREMENTS (BUG)

This table includes fixtures of >=6,200 initial lumens indicated on Table F as needing to comply with Shielding Requirements. Maximum lumens can be found in Title 24, Part 11, Section 5.106.8.

01	02	03			06	07	08	09		10	11	12	
Name or Item Tag	Complete Luminaire Description	Backlight Rating[2]			Uplight Rating[2]			Glare Rating (Lumens)[2]				Field Inspector	
		Mounting Height[1]	Max Allowable Backlight Rating[3]	Backlight Rating Per Design	Lighting type	Max Allowable Uplight Rating[3]	Uplight Rating Per Design	Mounting Height[1]		Max Allowable Glare Rating[3]	Glare Rating Per Design	Pass	Fail
SF1/SF1A/SF1B	Area Pole Light	2 MH from property line	No Limit	B3	Area Lighting	U0	U0	> 2 MH from property line		G3	G1	☐	☐
SF2	Floodlight	2 MH from property line	No Limit	B3	All other outdoor lighting, including decorative	U3	U0	> 2 MH from property line		G3	G3	☐	☐

[1] *FOOTNOTES: Mounting Height is labeled MH in this table.*
[2] *Authority Having Jurisdiction may ask for Luminaire cut sheets or other documentation to confirm luminaire type, uplight ratings and glare ratings used for compliance per 130.2(b)/ 160.5(c)*
[3] *BUG ratings with a lower number than the 'Max Allowable' are compliant. Ex. If Max Allowable is Bug Rating B4, then B0, B1, B2 and B3 are all compliant.*

STATE OF CALIFORNIA
Outdoor Lighting
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CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
Project Name: McClatchy High School Athletic Field Renovation	**Report Page:** (Page 5 of 8)
	Date Prepared: 2023-08-11T19:24:00-04:00

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 tabe even if they are within the spaces covered by the permit application.
Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit

Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings

01	02	03	04	05	
Area Description	Shut-Off 130.2(c)1 / 160.5(c)	Auto-Schedule 130.2(c)2 / 160.5(c)	Motion Sensor 130.2(c)3 / 160.5(c)	Field Inspector	
				Pass	Fail
Side Walk: "SF1/SF1A/SF1B"	Astronomical Timer	Provided	Provided	☐	☐
Batting Cages: "SF2"	Astronomical Timer	Provided	NA: Athletic Fields/Playgrounds Lighting	☐	☐

[1] *FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.*
[2] *Authority having jurisdiction may ask for cutsheets or other documentation to confirm compliance of light source.*
[3] *Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are excepted from ii and iii.*

STATE OF CALIFORNIA
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CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
Project Name: McClatchy High School Athletic Field Renovation	**Report Page:** (Page 6 of 8)
	Date Prepared: 2023-08-11T19:24:00-04:00

I. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e))

This table includes areas using allowance calculations per 140.7 / 170.2(e). General Hardscape Allowance is per Table 140.7-A/Table 170.2-R while "Use it or lose it" Allowances are per Table 140.7-B /Table 170.2-S. 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. Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

	01				
	☒ General Hardscape Allowance Table I (below)	"Use it or lose it" Allowance (select all that apply) (select all that apply)			
		☐ 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 for Nonresidential & Hotel/Motel

02	03	04	05	06	07	08	09
Area Description	Area Wattage Allowance (AWA)			Linear Wattage Allowance (LWA)			Total General AWA + LWA (Watts)
	Illuminated Area (ft²)	Allowed Density (W/ft²)	Area Allowance (Watts)	Perimeter Length (lf)	Allowed Density (W/lf)	Linear Allowance (Watts)	
Side Walk	18048	0.021	379.01	1234	0.2	246.8	625.8
Batting cages	5616	0.021	117.94	448	0.2	89.6	207.54
					Initial Wattage Allowance for Entire Site (Watts):		250
					Instances of Initial Wattage Allowance (LZ 0 only)[1]		
					Total General Hardscape Allowance (Watts):		1083.34

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.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

STATE OF CALIFORNIA
Outdoor Lighting
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CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
Project Name: McClatchy High School Athletic Field Renovation	**Report Page:** (Page 7 of 8)
	Date Prepared: 2023-08-11T19:24:00-04:00

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This section does not apply to this project.

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 has 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

Form/Title
NRCI-LTO-E - Must be submitted for all buildings

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selection has 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
NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.	Side Walk: "SF1/SF1A/SF1B"; Batting Cages: "SF2"

STATE OF CALIFORNIA
Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-LTO-E
Project Name: McClatchy High School Athletic Field Renovation	**Report Page:** (Page 8 of 8)
Project Address: 5735 47th Avenue, Sacramento, CA 95823	**Date Prepared:** 2023-08-10T13:11:48-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Dustin Zeisler	Documentation Author Signature: Dustin Zeisler
Company: The Engineering Enterprise	Signature Date: 8/10/2023
Address: 1125 High St.	CEA/ HERS Certification Identification (if applicable): N/A
City/State/Zip: Auburn, CA 95603	Phone: 530-886-8556

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: Scott Wheeler	Responsible Designer Signature: Scott Wheeler
Company: The Engineering Enterprise	Date Signed: 8/10/2023
Address: 1125 High St.	License: ED15491
City/State/Zip: Auburn, CA 95603	Phone: 530-886-8556

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SEAL

REGISTERED PROFESSIONAL ENGINEER
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SCOTT WHEELER
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MCCLATCHY HIGH SCHOOL
ATHLETIC FIELDS RENOVATION

3066 FREEPORT BLVD,
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5735 47TH AVENUE, SACRAMENTO, CA 95824

ISSUED

MARK	DATE	DESCRIPTION
	8/17/2023	DSA SUBMITTAL
	12/7/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

LIONAKIS PROJECT NO:	023040
DSA APPLICATION NO:	02-121593
CLIENT PROJECT NO:	23-118
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TITLE
TITLE 24

SHEET
E002

IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY

0 1/4" 1/2" 1"

NUMBERED SHEET NOTES

1. REFER TO 1/E200 & 1/E201 FOR CONTINUATION.
2. REFER TO FEEDER SCHEDULE AND POWER ONE LINE DIAGRAM FOR SIZE AND QUANTITIES.
3. PROVIDE POWER BEHIND BACKSTOP FOR SCOREBOARD CONTROL STATION. PROVIDE JBOX FOR FUTURE CONTROL AND/OR DATA, WITH 1.25"C FROM THE NEAREST "IDF" AND 1.25C TO THE SCOREBOARD.
4. PROVIDE 1-2"C FOR TELECOMMUNICATIONS OSP HORIZONTAL CALBING, AND 1-1"C. FOR FIRE ALARM CABLING.
5. LOCATE SECURITY CAMERA AND WIRELESS ACCESS POINT ON SOUTH EAST WALL OF THE CONCESSIONS BUILDING.
6. STUB 0.75" SIGNAL CONDUIT PATHWAY FROM SCOREBOARD CONTROL STATION TO POLE BASE OF SCOREBOARD. PROVIDE PULL STRING AND TERMINATE WITH CAP FOR FUTURE USE.
7. ROUTE NEW FIBER FROM EXISTING IDF AT BUILDING D TO MEDIA CONVERTERS AT SOFTBALL AND BASEBALL FIELD. REFER TO RISER DIAGRAM 2/E001.
8. CONDUIT FROM SOFTBALL CUSTODIAN MEDIAN COVERTER TO LIGHT POLE FOR FUTURE USE.
9. PROVIDE PULL STRING FOR FUTURE FIRE ALARM VOICE EVACUATION CIRCUIT.
10. PROVIDE 8-PORT MEDIA CONVERTER, REFER TO 2/E001. PROVIDE 120V CIRCUIT FROM PANEL L, DO NO USE STINGER PHASE.
11. LOCKABLE DISCONNECT PER DETAIL B/SB5.1.

GENERAL SHEET NOTES

A. CALL U.S.A. PRIOR TO UNDERGROUND WORK, 1-800-227-2600.

B. PULLBOX AND HANDHOLE LOCATIONS ARE DIAGRAMMATIC AND NOT DIMENSIONED. LOCATE NEW HANDHOLES IN CLOSEST LANDSCAPED AREA WHEREVER POSSIBLE, COORDINATE WITH LANDSCAPE ARCHITECT. PROVIDE WITH STEEL TRAFFIC RATED LID IN ANY AREA SUBJECT TO VEHICULAR TRAFFIC.

C. HANDHOLES/PULLBOXES FOR SIGNAL SYSTEMS SHALL BE MIN. 24"x36" INTERIOR DIMENSIONS, OR SIZED PER CEC 314.28, WHICHEVER IS LARGER. LID SHALL BE ENGRAVED "SIGNAL", UON. REFER TO RISER DIAGRAMS FOR CABLING REQUIREMENTS. MINIMUM CONDUIT SIZE 1.25".

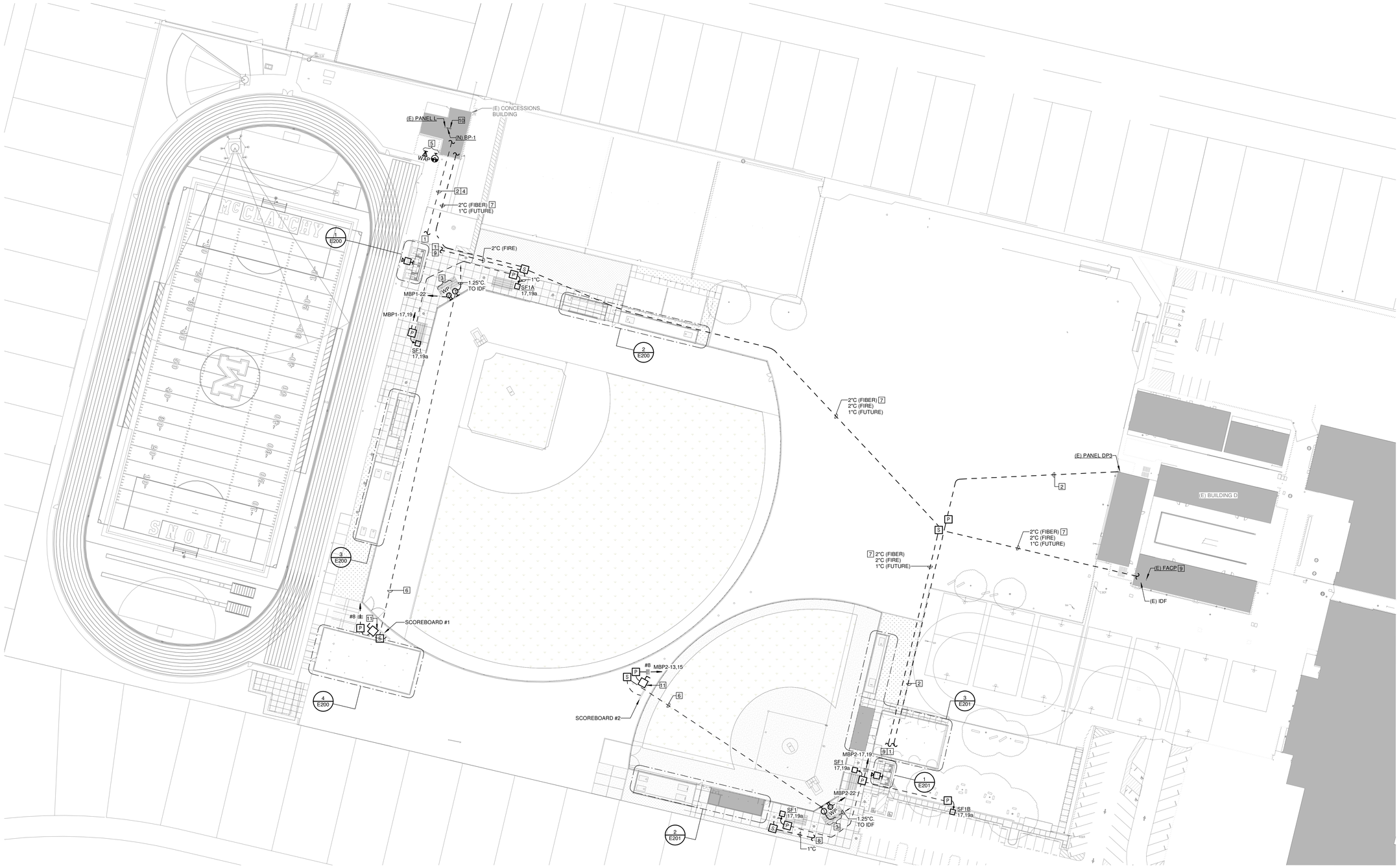
D. HANDHOLES/PULLBOXES FOR POWER SHALL BE SIZED PER CEC 314.2. LID SHALL BE ENGRAVED "POWER", UON. REFER TO POWER ONE-LINE DIAGRAM FOR FEEDER REQUIREMENTS. MINIMUM CONDUIT SIZE FOR POWER IS 1.0", MINIMUM WIRE SIZE #10.

E. REFER TO ELECTRICAL DETAILS FOR TYPICAL HANDHOLE/PULLBOX INSTALLATION AND TYPICAL JOINT TRENCH INSTALLATION.

F. PROVIDE A PULL STRING IN ALL EMPTY CONDUITS.

G. PROVIDE 6-INCH WIDE RED UNDERGROUND WARNING TAPE AT 12-INCHES ABOVE ALL NEW UNDERGROUND CONDUITS.

H. ALL WIRELESS ACCESS POINTS TO BE INSTALLED WITH A WEATHERPROOF ENCLOSURE, OBERON 1022-00, OR EQUAL.



1 OVERALL ELECTRICAL SITE PLAN

SCALE: 1" = 40'-0"

LIONÄKIS

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SEAL

REGISTERED PROFESSIONAL ENGINEER #E015481 Exp. 06/30/25 SCOTT WHEELER ELECTRICAL STATE OF CALIFORNIA

PROJECT

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ATHLETIC FIELDS RENOVATION

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DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	23-109
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TITLE

OVERALL ELECTRICAL SITE PLAN

SHEET

E100

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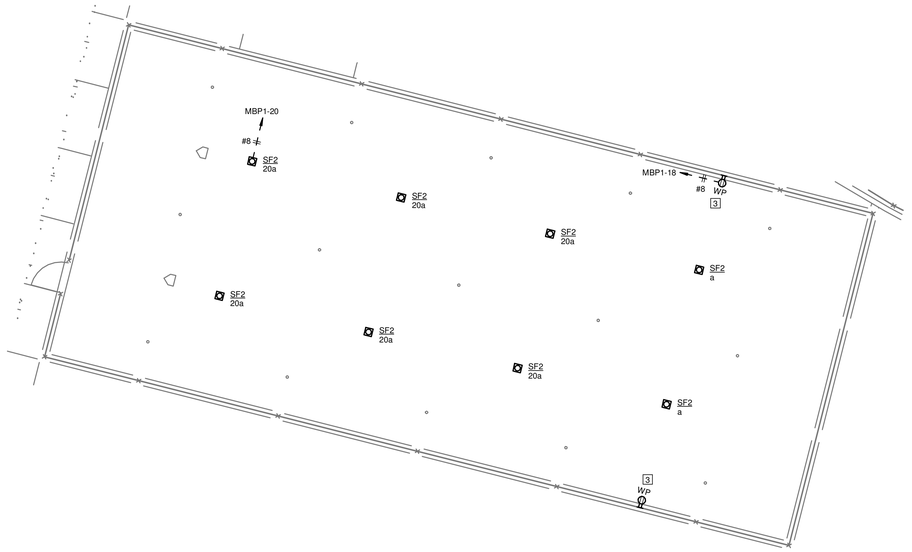
0 1/4" 1/2" 1" 2"

NUMBERED SHEET NOTES

1. REFER TO 1/E100 FOR CONTINUATION.
2. PROVIDE GROUND ROD IN PULLBOX FOR GROUNDING ELECTRODE AND TO BOND METAL COMPONENTS OF BUILDING.
3. INSTALL RECEPTACLE ON PVC INSULATED GALVANIZED RIGID CONDUIT RISER. RUN NEW CONDUIT FROM NEAREST (N) POWER PULLBOX SHOWN ON SITE PLAN.
4. LOW VOLTAGE CONDUITS FOR TELECOMMUINCATIONS AND FIRE ALARM, REFER TO E100.
5. PROVIDE AN ASTRONOMIC ELECTRONIC LIGHTING CONTROLLER FOR EXTERIOR POLE LIGHTS, INTERMATIC MODEL# ET90225C, OR EQUAL. PROVIDE WITH OUTDOOR WEATHERPROOF METAL ENCLOSURE.
6. PROVIDE 12"X12"X6"D N3R SIGNAL TERMINAL CABINET, HOFFMAN NVENT OR EQUAL. ATTACH TO BUILDING STUDS WITH 4X #10 WOOD SCREWS WITH WASHERS, MIN. 1.5" EMBED.



4 ENLARGED BATTING CAGES

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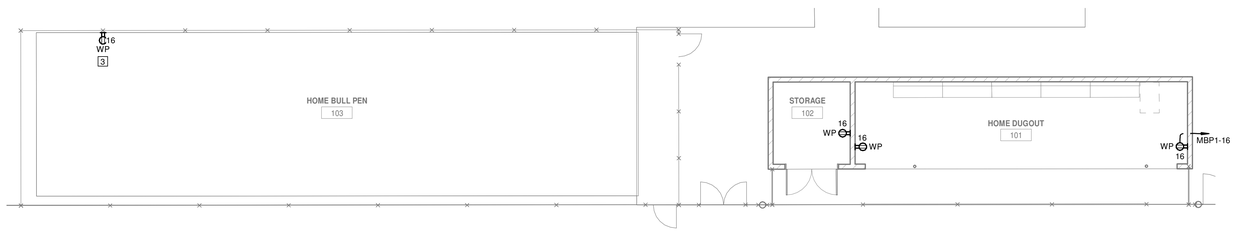
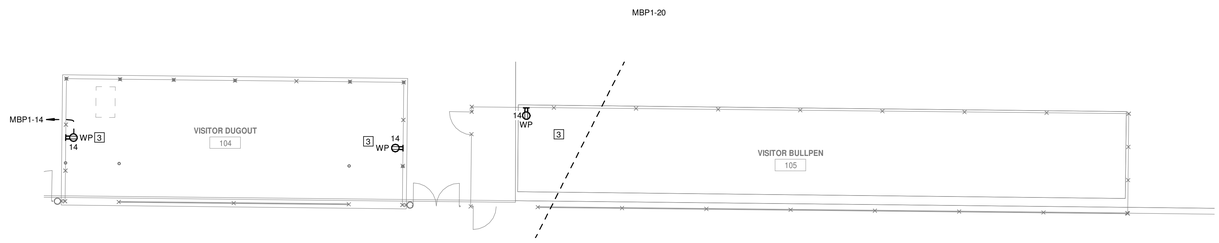


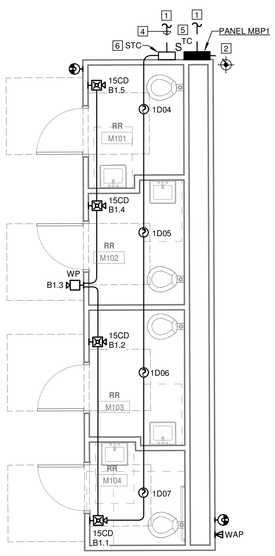
3 ENLARGED HOME DUG OUT & BULLPEN

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



2 ENLARGED VISITORS DUG OUT & BULLPEN

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



1 ENLARGED BASEBALL BATHROOM PLAN

SCALE: 1/4" = 1'-0"

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SEAL

REGISTERED PROFESSIONAL ENGINEER #E015481 Exp. 06/30/25 SCOTT WHEELER ELECTRICAL STATE OF CALIFORNIA

PROJECT

MCCLATCHY HIGH SCHOOL
ATHLETIC FIELDS RENOVATION

3066 FREEPORT BLVD,
SACRAMENTO, CA 95818

CLIENT

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

5735 47TH AVENUE, SACRAMENTO, CA 95824

ISSUED

MARK	DATE	DESCRIPTION
	8/17/2023	DSA SUBMITTAL
	12/7/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

LIONAKIS PROJECT NO:	023040
DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	23-109
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TITLE

ENLARGED BASEBALL FIELD ELECTRICAL PLAN

SHEET

E200

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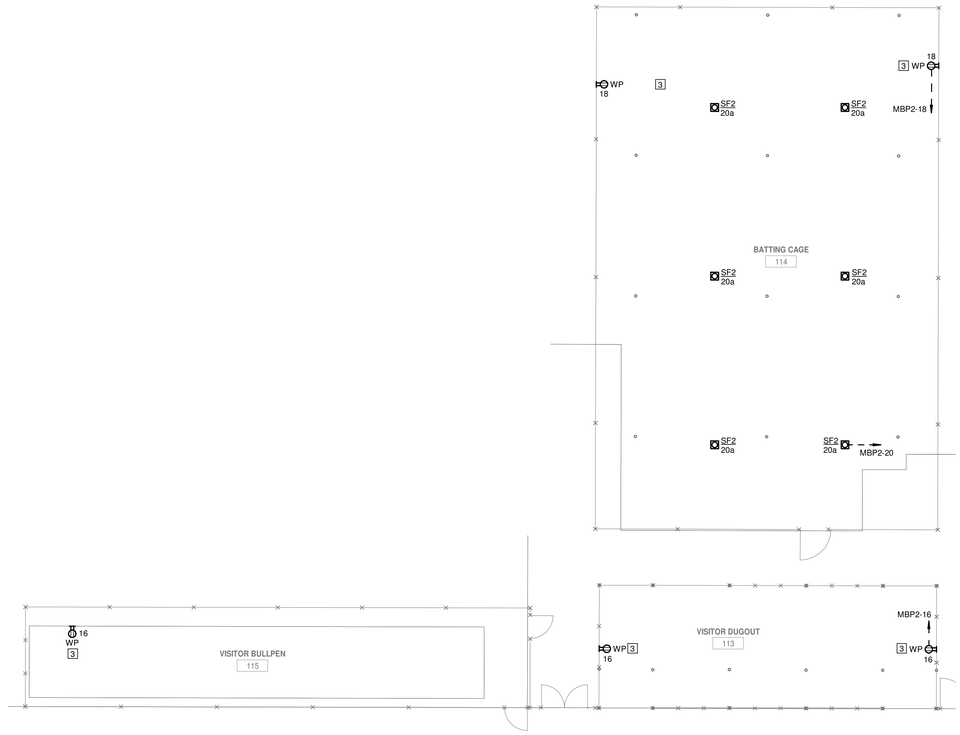
2. PROVIDE GROUND ROD IN PULLBOX FOR GROUNDING ELECTRODE AND TO BOND METAL COMPONENTS OF BUILDING. REFER TO DETAIL 4/E400.
3. INSTALL RECEPTACLE ON PVC INSULATED GALVANIZED RIGID CONDUIT RISER. RUN NEW CONDUIT FROM NEAREST (N) POWER PULLBOX SHOWN ON SITE PLAN.
4. PROVIDE 8-PORT MEDIA CONVERTER, REFER TO 2/E001. PROVIDE 120V CIRCUIT TO POWER SUPPLY AT ENCLOSURE.
5. LOW VOLTAGE CONDUITS FOR TELECOMMUINCATIONS AND FIRE ALARM, REFER TO E100.
6. PROVIDE AN ASTRONOMIC ELECTRONIC LIGHTING CONTROLLER FOR EXTERIOR POLE LIGHTS, INTERMATIC MODEL# ET90225C, OR EQUAL. PROVIDE WITH OUTDOOR WEATHERPROOF METAL ENCLOSURE.
7. PROVIDE 12"X12"X6" N3R SIGNAL TERMINAL CABINET, HOFFMAN NVENT OR EQUAL. ATTACH TO BUILDING STUDS WITH 4X #10 WOOD SCREWS WITH WASHERS, MIN. 1.5" EMBED.
8. PROVIDE FIRE ALARM BOOSTER PANEL POWER SUPPLY. ATTACH TO BUILDING STUDS WITH 4X #10 WOOD SCREWS WITH WASHERS, MIN. 1.5" EMBED.

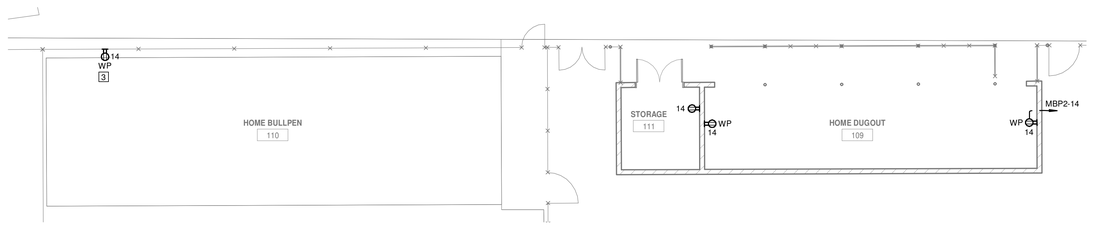
1 ENLARGED SOFTBALL BATHROOM PLAN

SCALE: 1/4" = 1'-0"



3 ENLARGED VISITORS DUG OUT, BULLPEN & BATTING CAGES

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



2 ENLARGED HOME DUG OUT & BULLPEN

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ENLARGED SOFTBALL FIELD ELECTRICAL PLAN

SHEET

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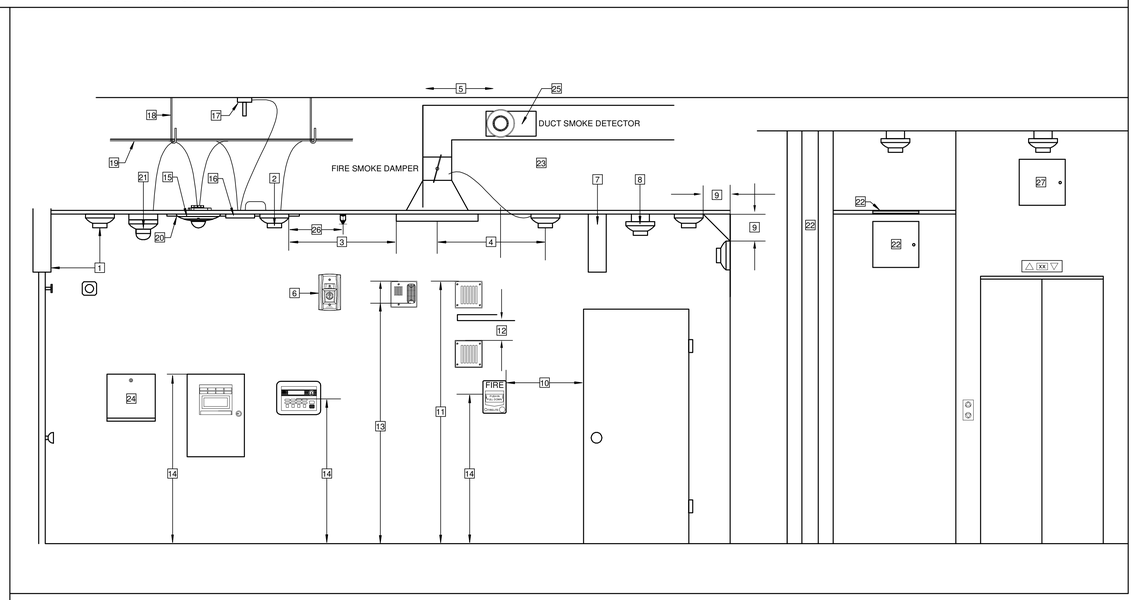
FIRE ALARM DEVICE MOUNTING DETAIL NOTES

1. MOUNT DOOR HOLDER SMOKE DETECTOR MAXIMUM 3' FROM DOOR AND A MINIMUM OF 1' FROM DOOR.
2. NFPA 72 17.7.3.2.3.1 ON SMOOTH CEILINGS, SPACING FOR SMOKE DETECTORS SHALL BE IN ACCORDANCE WITH ONE OF THE FOLLOWING REQUIREMENTS:
   1. THE DISTANCE BETWEEN SMOKE DETECTORS SHALL NOT EXCEED SPACING OF 30'.
   2. ALL POINTS ON THE CEILING SHALL HAVE A DETECTOR WITHIN A DISTANCE EQUAL TO OR LESS THAN 21'.
3. NFPA 72 17.7.4.1 MOUNT SMOKE DETECTOR MINIMUM OF 3' AWAY FROM DIFFUSER VENT.
4. MOUNT SMOKE DETECTOR FOR FIRE SMOKE DAMPER (FSD) WITHIN 3' OF SUPPLY VENT.
5. DUCT SMOKE DETECTOR SHALL BE MOUNTED 6 TO 10 TIMES THE DIAMETER OF DUCT FROM BEND OR OBSTRUCTION.
6. NFPA 72 17.4.7 WHERE FIRE DETECTORS ARE INSTALLED IN CONCEALED LOCATIONS MORE THAN 10' AFF OR IN ARRANGMENTS WHERE THE DETECTOR'S ALARM OR SUPERVISORY INDICATOR IS NOT VISIBLE TO RESPONDING PERSONNEL. DETECTORS SHALL BE PROVIDED WITH A REMOTE INDICATOR OR SUPERVISORY INDICATION ACCEPTABLE WITH AUTHORITY HAVING JURISDICTION (AHJ).
7. NFPA 72 17.7.3.2.4.2 BEAM POCKET SPOT DETECTOR ARE REQUIRED FOR BEAMS GREATER THAN 18" BELOW CEILING AND SPACED MORE THAN 8' ON CENTER. EACH BAY FORMED BY BEAM SHALL BE TREATED AS A SEPARATE AREA. BEAMS LESS THAN 12" IN DEPTH AND SPACED LESS THAN 8' ON CENTER SHALL HAVE DETECTORS INSTALLED ON THE BOTTOM OF THE BEAM. OR, CEILINGS WITH BEAM DEPTHS LESS THAN 10 PERCENT OF THE CEILING HEIGHT, SMOOTH CEILING SPACING IS PERMITTED AND DETECTORS PLACED ON THE BOTTOM OF THE BEAM. BEAMS EQUAL TO OR GREATER THAN 10 PERCENT OF CEILING HEIGHT WITH BEAM SPACING GREATER THAN 40 PERCENT OF CEILING HEIGHT, SPOT DETECTORS SHALL BE LOCATED IN EACH CELL.
8. NFPA 72 17.6.3.3.1.1 BEAMS PROJECTING LESS THAN 4" SHALL BE TREATED AS A SMOOTH CEILING.
9. NFPA 72 17.6.3.1.3.1 SMOKE DETECTORS SHALL BE MOUNTED ON THE CEILING MINIMUM 4" FROM WALL, AND 4" MINIMUM TO 12" MAXIMUM FROM CEILING MOUNTED ON WALL.
10. NFPA 72 17.14.5 THE OPERABLE PART OF A MANUALLY ACTUATED ALARM-INITIATING DEVICE SHALL NOT BE LESS THAN 42" AFF AND NOT MORE THAN 48" AFF. NFPA 72 17.14.8.4 MANUAL FIRE ALARM BOXES SHALL BE LOCATED WITHIN 5' OF EACH EXIT DOORWAY ON EACH FLOOR.
11. NFPA 72 18.4.8.1 MOUNT EXTERIOR HORN AT 90° MINIMUM AND 100° MAXIMUM TO THE TOP OF THE DEVICE.
12. NFPA 72 18.5.5.2 WHERE LOW CEILING HEIGHTS DO NOT PERMIT WALL MOUNTING AT A MINIMUM OF 80", WALL MOUNTED VISIBLE APPLIANCES SHALL BE MOUNTED WITHIN 6" OF THE CEILING.
13. NFPA 72 18.5.5.1 INTERIOR WALL MOUNTED APPLIANCES SHALL BE MOUNTED SUCH THAT THE ENTIRE LENS IS NOT LESS THAN 80" AFF AND NOT GREATER THAN 96" AFF.
14. CBC 1117B.0 (3) MOUNT FIRE ALARM CONTROL PANELS AND ANNUNCIATORS AT A MAXIMUM OF 48" TO THE TOP OF THE CONTROL PANEL OR KEY BOARDS.
15. CEILING MOUNTED HORN / SPEAKER STROBE
16. MONITOR MODULE
17. RATE OF RISE HEAT DETECTOR, MOUNTED IN ABOVE CEILING / ATTIC SPACE.
18. APPROVED WIRE MANAGEMENT, ie J-HOOK OR D-RING.
19. ABOVE CEILING CIRCUITS ROUTING IN AN ACCESSIBLE ATTIC SPACE.
20. NON-ACCESSIBLE CEILINGS MUST USE EITHER EMT OR APPROVED WIREMOLD RACEWAY, AS SHOWN ON PLANS.
21. MULTI-CRITERIA PHOTOELECTRIC SMOKE / CO DETECTOR WITH SOUNDER BASE. MOUNT IN AREAS WHERE FOSSIL FUEL IS USED.
22. NFPA 72 17.5.3.1.1 IN ACCESSIBLE SPACES THAT DO NOT MEET THIS CRITERIA MUST BE MADE ACCESSIBLE AND DETECTION MUST BE INSTALLED. PROVIDE ACCESS HATCH IN CONFINED SPACES FOR ACCESS TO FIRE ALARM DETECTION DEVICE FOR TESTING AND MAINTENANCE.

    SMOKE / HEAT DETECTION COVERAGE IS REQUIRED IN ALL COMBUSTIBLE AREAS, UNLESS:
    A. CEILING IS ATTACHED DIRECTLY TO THE UNDERSIDE OF THE SUPPORTING BEAM OR ROOF DECK.
    B. CONCEALED SPACE IS ENTIRELY FILLED WITH NON-COMBUSTIBLE INSULATION.
    C. THE SMALL CONCEALED SPACE OVER ROOMS THAT DO NOT EXCEED 50 SQ. FT. IN AREA.
    D. SPACES FORMED BY FACING STUDS OR SOLID JOISTS IN WALLS, FLOORS, OR CEILINGS WHERE THE FACING STUD OR SOLID JOIST IS LESS THAN 6".
23. NFPA 72 17.5.3.1.4 DETECTION FOR CONCEALED ACCESSIBLE SPACES ABOVE SUSPENDED CEILING USED AS A RETURN PLENUM SHALL BE PROVIDED AT EACH CONNECTION FROM RETURN AIR PLENUM AT CENTRAL AIR HANDLING UNIT.
24. NFPA 72 7.7.2 WITH EVERY NEW FIRE ALARM SYSTEM A DOCUMENTATION CABINET SHALL BE INSTALLED AT THE FIRE ALARM CONTROL PANEL OR AT ANOTHER LOCATION APPROVED BY AHJ. THE CABINET SHALL BE PROMINENTLY LABELED "SYSTEM RECORD DOCUMENTS".
25. NFPA 90A 6.4.2.1 SMOKE DETECTORS LISTED FOR USE IN AIR DISTRIBUTION SYSTEMS SHALL BE LOCATED AS FOLLOWS: DOWNSTREAM OF THE AIR FILTERS AND AHEAD OF ANY BRANCH CONNECTIONS IN AIR SUPPLY SYSTEMS HAVING A CAPACITY GREATER THAN 2000 CFM.
26. SMOKE DETECTORS SHALL NOT BE CLOSER THAN 1' FROM SPRINKLERS.
27. PROVIDE FIRE RATED ACCESS HATCH IN ELEVATOR SHAFT FOR ACCESS TO FIRE ALARM DETECTION DEVICE FOR TESTING AND MAINTENANCE.



FIRE ALARM SYSTEM COMPONENT SCHEDULE

SYMBOL	EQUIPMENT DESCRIPTION	MODEL NO.	MANUFACTURER	CSFM LISTING
FACP	(E) FIRE ALARM CONTROL PANEL	NFS2-640	NOTIFIER	7165-0028:0243
BPS	NOTIFICATION BOOSTER PANEL	HPFF8	HONEYWELL	7315-1637:0102
SM	SINGLE INPUT MONITOR MODULE	FMM-1	NOTIFIER	7300-0028:0219
?	ADDRESSABLE SMOKE DETECTOR	FSP-951	NOTIFIER	7272-0028:0503
AH	CONVENTIONAL HEAT DETECTOR AH = ATTIC HEAT (ie. ABOVE CEILING)	5604	SYSTEM SENSOR	7270-1653:0167
15/30/75/110	WALL MOUNTED HORN/STROBE	P2RL	SYSTEM SENSOR	7125-1653:0504
WP	WEATHERPROOF WALL MOUNTED HORN	HRK	SYSTEM SENSOR	7135-1653:0189

NOTE: CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT OF COMPONENTS SHOWN ON THE FLOOR PLANS. REFER TO SPECIFICATION FOR SPARE DEVICE QUANTITY REQUIREMENTS

FIRE ALARM SYSTEM MATRIX

	SMOKE DETECTOR	HEAT DETECTOR	OPEN/SHORT CIRCUIT	GROUND FAULT	AC LOSS	BATTERY TROUBLE	SYSTEM SILENCE	SYSTEM RESET
ALARM AT FACP & REMOTE ANNUNCIATOR(S)	●	●						
SUPERVISORY AT FACP & REMOTE ANNUNCIATOR(S)								
TROUBLE AT FACP & REMOTE ANNUNCIATOR(S)			●	●	●	●		
REPORT EVENT TO OFFSITE SUPERVISING STATION	●	●	●	●	●	●		
ACTIVATE EVACUATION SIGNALS	●	●						
DEACTIVATE EVACUATION SIGNALS							●	
SYSTEM NORMAL							●	●

FIRE ALARM SYSTEM CABLE SCHEDULE

CABLE TAG	CIRCUIT DESCRIPTION	CABLE TYPE	GAUGE	CONDUCTORS	COLOR
A	SIGNAL LINE CIRCUIT (SLC)	FPL	#18	2	RED JACKET
B	NOTIFICATION APPLIANCE CIRCUIT (NAC)	FPL	#12	2	RED JACKET
F	UNDERGROUND SLC	WATER TIGHT	#14	2	BLACK JACKET

FIRE ALARM NOTES

1. WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE REGULATIONS,INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

   STATE CALIFORNIA CODE OF REGULATIONS (CCR) 2022 TITLE 24 CALIFORNIA BUILDING CODE

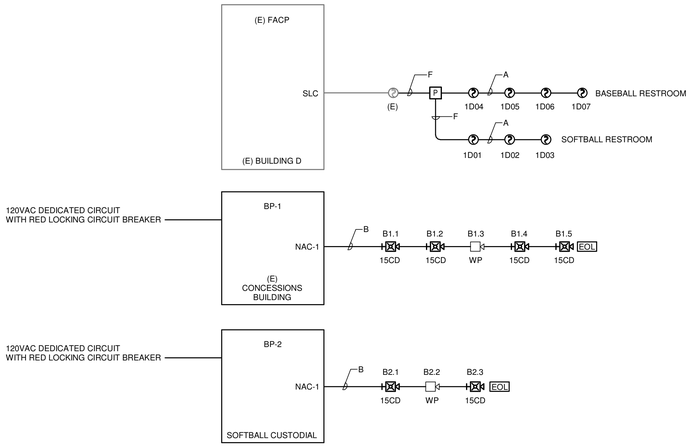
   PART 2, 2022 CALIFORNIA BUILDING CODE (CBC)
   PART 3, 2022 CALIFORNIA ELECTRICAL CODE (CEC), 2022 NEC.
   PART 4, 2022 CALIFORNIA MECHANICAL CODE (CMC)
   PART 5, 2022 CALIFORNIA PLUMBING CODE (CPC)
   PART 9, 2022 CALIFORNIA FIRE CODE (CFC)

   2019 NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 80.
   2021 NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 90A, 99, AND 101.
   2022 NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 13, 72.
2. INSTALLATION OF THE SYSTEMS SHALL NOT BE STARTED UNTIL DETAILED DESIGN DOCUMENTATION AND SPECIFICATION, INCLUDING STATE FIRE MARSHALL LISTING SHEETS FOR EACH COMPONENT OF THE SYSTEM HAS BEEN APPROVED BY DSA.
3. UPON COMPLETION OF INSTALLATION OF THE SYSTEMS, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF A DSA PROJECT INSPECTOR.
4. A STAMPED SET OF APPROVED FIRE ALARM DESIGN DOCUMENTS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION.
5. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF DSA AND THE ARCHITECT/ENGINEER OF RECORD.
6. DSA, ARCHITECT/ENGINEER AND OWNER SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO THE FINAL INSPECTION AND/ OR TESTING.
7. ALL PENETRATIONS THROUGH RATED ASSEMBLIES, REQUIRING OPENING PROTECTION SHALL BE PROVIDED WITHIN THE SPECIFICATION WITHIN THE FIRE ALARM SECTION.
8. AUDIBLE DEVICES SHALL PROVIDE A SOUND PRESSURE LEVEL OF 15 DECIBLES (Dba) ABOVE THE AVERAGE AMBIENT SOUND LEVEL OR 5 Dba ABOVE THE MAXIMUM SOUND LEVEL HAVING A DURATION AT LEAST 60 SECONDS, WHICHEVER IS GREATER, IN EVERY OCCUPIED SPACE WITHIN THE BUILDING.
9. AUDIBLE DEVICES SHALL BE SYNCHRONIZED TEMPORAL CODE 3 PATTERN.
10. THE CONTRACTOR SHALL ADJUST/INSTALL DEVICES TO MAXIMIZE PERFORMANCE AND TO MINIMIZE FALSE ALARMS.
11. VISUAL DEVICES SHOULD NOT EXCEED 2 FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN 1 FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELA. VISUAL DEVICES WITHIN 55' FROM EACH OTHER SHALL BE SYNCHRONIZED.
12. UNDERGROUND AND EXTERIOR CONDUIT SHALL HAVE WATERTIGHT FITTINGS AND WIRE TO BE APPROVED FOR WET LOCATIONS.
13. ALL FIRE ALARM WIRING SHALL BE FPL (FIRE POWER LIMITED) OR FPLP (FIRE POWER LIMITED PLENUM) AS REQUIRED FOR APPLICATION. WIRING IN CONDUIT ABOVE GROUND MAY BE THHN OR THWN.
14. PER CEC STANDARDS, ALL WIRING IS TO BE PULLED THROUGH EACH JUNCTION BOX AND CONNECTED DIRECTLY TO EACH FIRE DEVICE. DO NOT SPLICE THE WIRE. ALL BOXES TO BE SIZED PER CEC.
15. IN AREA OF CONSTRUCTION OR POSSIBLE DAMAGE/CONTAMINATION OF NEWLY INSTALLED FIRE ALARM DEVICES SHALL BE COVERED UNTIL AREA IS READY TO BE TURNED OVER TO THE OWNER.
16. ALL FIRE ALARM CIRCUITS ARE TO BE IN CONDUIT, SURFACE RACEWAY OR OPEN RUN ABOVE THE CEILINGS, UNDER FLOORS AND IN WALLS IN A NEAT AND PROTECTED MANOR AS INDICATED ON THE DESIGN DOCUMENTS. EXPOSED CIRCUITS ARE ONLY PERMITTED WHEN NOTED AS EXPOSED ON DESIGN DOCUMENTS.
17. FIRE ALARM PANEL, REMOTES, AND COMPONENTS SHALL BE SECURED TO MOUNTING SURFACES PER MANUFACTURERS SPECIFICATIONS. NO DEVICE SHALL EXCEED THE WEIGHT OF 20 LBS. WITHOUT SPECIAL MOUNTING DETAILS.
18. A DEDICATED BRANCH CIRCUIT SHALL BE PROVIDED FOR FIRE ALARM EQUIPMENT. THIS CIRCUIT SHALL BE ENERGIZED FROM A COMMON USE AREA PANEL AND SHALL HAVE NO OTHER OUTLETS. THE BREAKER SHALL HAVE A RED LOCKING DEVICE TO BLOCK THE HANDLE IN THE "ON" POSITION. THE CIRCUIT BREAKER SHALL BE LABELED "FIRE ALARM CIRCUIT CONTROL". CIRCUIT ID TO BE LABELED AT FIRE PANEL/EXPANDERS.
19. THE INSTALLER CONTRACTOR SHALL PROVIDE A RECORD OF COMPLETION PER NFPA 72, FIGURE 10.18.2.1.1.
20. CONTROL PANELS, REMOTE ANNUNCIATORS SHALL BE MOUNTED WITH THE TOP OF THE CONTROL DEVICE OR KEYPAD TO BE A MAXIMUM OF 48".
21. THE INSTALLING CONTRACTOR SHALL PROVIDE SYSTEM PROGRAMMING FOR SUPERVISORY MONITORING PER CBC SECTION 901.6.2.
22. SUPERVISORY MONITORING SHALL BE TESTED AND VERIFIED AS SENDING CORRECT SIGNALS IN CONJUNCTION WITH FINAL ACCEPTANCE TEST.
23. OWNER SHALL BE RESPONSIBLE FOR ESTABLISHING A FIRE SYSTEM MONITORING CONTRACT OR PROVISIONS.
24. THE FIRE ALARM SYSTEM SHALL CONFORM TO 2022 CALIFORNIA ELECTRICAL CODE (CEC) ARTICLE 760 AND 2022 CALIFORNIA FIRE CODE (CFC) SECTION 907.
25. BEFORE REQUESTING FINAL APPROVAL OF THE INSTALLATION THE INSTALLING CONTRACTOR SHALL FURNISH A WRITTEN STATEMENT TO THE DSA PROJECT INSPECTOR TO THE EFFECT THAT THE SYSTEM HAS BEEN INSTALLED AND TESTED IN ACCORDANCE WITH THE 2019 NFPA 72 SECTION 14.4.1
26. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE DSA PROJECT INSPECTOR.
27. PROVIDE A RECORD OF COMPLETION PER NFPA 72 CHAPTER 7.5.6.
28. AUTOMATIC FIRE ALARM SYSTEM SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72 AND CBC 907.6.5.2. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUFX OR UUIS BY UL OR SHALL MEET THE REQUIREMENTS OF FM STANDARDS 3011.
29. TEST, INSPECTION AND MAINTENANCE SHALL COMPLY WITH NFPA 72 CHAPTER 14 REQUIREMENTS.
30. EACH BUILDING TO BE A SEPARATE SPEAKER ZONE. (CFC 907.63).

FIRE ALARM SYSTEM DESCRIPTION

SCOPE OF THIS PROJECT IS TO TIE INTO EXISTING NOTIFIER FIRE ALARM SYSTEM. PROVIDE NEW POWER SUPPLIES, WIRING, BACKBOXES, NOTIFICATION APPLIANCES AND INITIATION DEVICES IN NEW RESTROOM BUILDINGS.

FIRE ALARM SYSTEM: CLASS B
IDC: CLASS B
SLC CIRCUIT: CLASS B
NOTIFICATION CIRCUIT: CLASS B



1 FIRE ALARM RISER DIAGRAM
SCALE:NTS

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MANAGEMENT

LIONAKIS PROJECT NO:	023040
DSA APPLICATION NO:	02-121593
CLIENT PROJECT NO:	23-118
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TITLE
FIRE ALARM RISER, SCHEDULES, NOTES & DETAILS

SHEET
E300

FACP CALCULATIONS

Signaling Line Circuit Loading		DEVICE		SUBTOTAL	
Qty	Device	Standby	Alarm	Standby	Alarm
1	FIRE ALARM CONTROL PANEL	0.081000	0.150000	0.081000	0.150000
	CONTROL RELAY	0.012000	0.002000		
	DUAL MONITOR MODULE	0.000300	0.000080		
	MANUAL PULL STATION	0.000250	0.000300		
8	SMOKE DETECTOR	0.000360	0.000400	0.002880	0.003200
	DUCT SMOKE DETECTOR	0.000360	0.000400		
	HEAT DETECTOR				
			Signaling Line Circuit Load:	0.083880	0.153200

Notification Circuit Loading									
DEVICE	CD	DRAW (EA)	NAC1	NAC2	NAC3	NAC4	NAC5	NAC6	TOTAL
HORN STROBE	15								
HORN STROBE	30								
HORN STROBE	75	0.174	21						3.654
HORN STROBE	110								
STROBE	15	0.050	4						0.200
STROBE	30								
STROBE	75								
STROBE	110								
HORN		0.041	10						0.410
		Notification Appliance Circuit Loading:	4.264						4.264

Notification Circuit Voltage Drop					
CIRCUIT ID	TOTAL A	LENGTH FT.	AWG	%VD	VD
NAC1	4.264		12		
NAC2			12		
NAC3			12		
NAC4			12		
NAC5			12		
NAC6			12		

Battery Calculation	Standby	Alarm
Totals Panel Current:	0.084	4.417
Hours in Standby:	24	
Standby Ah:	2.01	
Minutes in Alarm:		15
Alarm Ah		1.10
Spare/Future Capacity - 25%:		0.78
Minumum Battery Capacity Required - Ah:		7.00
Provide next largest capacity battery		

Panel Loading

Panel Capacity (Amps): 6.00
Panel Load (Amps): 4.50

ALL LOADS ARE EXPRESSED IN AMPS

BASEBALL RESTROOM BP-1

Signaling Line Circuit Loading		DEVICE		SUBTOTAL	
Qty	Device	Standby	Alarm	Standby	Alarm
1	HPFF8	0.091000	0.145000	0.091000	0.145000
			Panel Load	0.091000	0.145000

Notification Circuit Loading									
DEVICE	CD	DRAW (EA)	NAC 1	NAC 2	NAC 3	NAC 4			TOTAL
HORN STROBE	15	0.041	4						0.164
HORN		0.063	1						0.063
		Notification Appliance Circuit Loading	0.227						0.227

Notification Circuit Voltage Drop					
CIRCUIT ID	TOTAL A	LENGTH FT.	AWG	%VD	VD
NAC 1	0.227	250	12	1.07%	0.22
NAC 2			12		
NAC 3			12		
NAC 4			12		
			12		
			12		

Battery Calculation	Standby	Alarm
Totals Panel Current:	0.091	0.372
Hours in Standby:	24	
Standby Ah:	2.18	
Minutes in Alarm:		15
Alarm Ah		0.09
Spare/Future Capacity - 25%:		0.46
Minumum Battery Capacity Required - Ah:		7.00
Provide next largest capacity battery		

Panel Loading

Panel Capacity (Amps): 8.00
Panel Load (Amps): 0.46

ALL LOADS ARE EXPRESSED IN AMPS

SOFTBALL RESTROOM BP-2

Signaling Line Circuit Loading		DEVICE		SUBTOTAL	
Qty	Device	Standby	Alarm	Standby	Alarm
1	HPFF8	0.091000	0.145000	0.091000	0.145000
			Panel Load	0.091000	0.145000

Notification Circuit Loading									
DEVICE	CD	DRAW (EA)	NAC 1	NAC 2	NAC 3	NAC 4			TOTAL
HORN STROBE	15	0.041	2						0.082
HORN		0.063	1						0.063
		Notification Appliance Circuit Loading	0.145						0.145

Notification Circuit Voltage Drop					
CIRCUIT ID	TOTAL A	LENGTH FT.	AWG	%VD	VD
NAC 1	0.145	100	12	0.27%	0.06
NAC 2			12		
NAC 3			12		
NAC 4			12		
			12		
			12		

Battery Calculation	Standby	Alarm
Totals Panel Current:	0.091	0.290
Hours in Standby:	24	
Standby Ah:	2.18	
Minutes in Alarm:		15
Alarm Ah		0.07
Spare/Future Capacity - 25%:		0.56
Minumum Battery Capacity Required - Ah:		7.00
Provide next largest capacity battery		

Panel Loading

Panel Capacity (Amps): 8.00
Panel Load (Amps): 0.38

ALL LOADS ARE EXPRESSED IN AMPS

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2025 Nineteenth Street
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CONSULTANT

The Engineering Enterprise
CONSULTING ENGINEERS
ALAMEDA | AUBURN | NEOSHO
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https://www.engent.com

SEAL

REGISTERED PROFESSIONAL ENGINEER
#E015491
Exp. 06/30/25
SCOTT WHEELER
ELECTRICAL
STATE OF CALIFORNIA

PROJECT
MCCLATCHY HIGH SCHOOL
ATHLETIC FIELDS RENOVATION

3066 FREEPORT BLVD,
SACRAMENTO, CA 95818

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

5735 47TH AVENUE, SACRAMENTO, CA 95824

ISSUED

MARK	DATE	DESCRIPTION
	8/17/2023	DSA SUBMITTAL
	12/7/2023	BID SET - NOT DSA APPROVED

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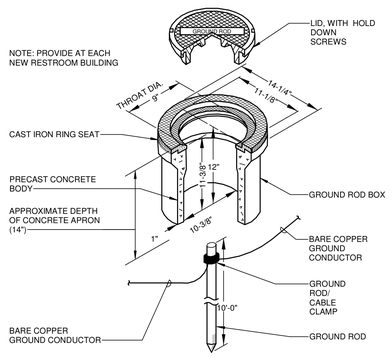
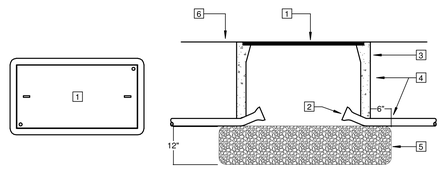
TITLE
FIRE ALARM
CALCULATIONS

SHEET
E301



1 GROUND ROD INSTALLATION

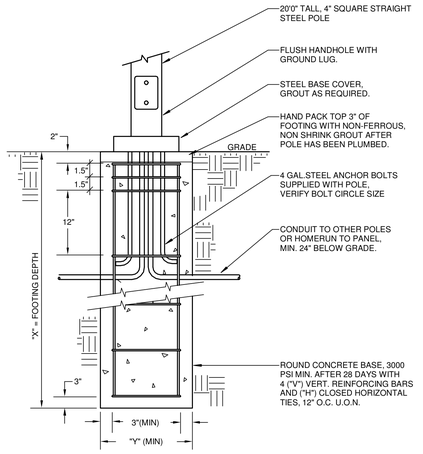
SCALE:NTS



1. CONCRETE COVER (TO SUIT APPLICATION) WITH HOLD DOWN BOLTS. LABEL COVER AS REQUIRED.
2. BELL ENDS TYP.
3. PRE CAST REINFORCED CONCRETE BOX, SIZE PER CEC. INSTALL FLUSH WITH GRADE.
4. SEAL AROUND CONDUIT, BOX & JUNCTION OF EXTENSION(S) WITH MORTAR.
5. CRUSHED ROCK
6. FINISHED GRADE

2 SITE PULLBOX INSTALLATION DETAIL

SCALE:NTS



NOMINAL HEIGHT	POLE HEIGHT	BOLT CIRCLE	"H"	"V"	"X"	"Y"
20'-0"	20'-0"	9.5"-11"	#3	#4	5'-0"	24"

NOTE: SITE LIGHTING POLE UNDER 35' NOT SUBJECT TO DSA REVIEW PER DSA IR A-22 ITEM NO.1.

3 LIGHTING POLE BASE DETAIL

SCALE:NTS

NOTE: SITE LIGHTING POLE UNDER 35' NOT SUBJECT TO DSA REVIEW PER DSA IR A-22 ITEM NO.1.

4 RAISED LIGHTING POLE BASE DETAIL

SCALE:NTS

DSA ANCHORAGE NOTES

APPLICABLE CODE: 2022 CBC 07/30/2023

ELECTRICAL COMPONENT ANCHORAGE NOTE

ALL ELECTRICAL COMPONENTS SHALL BE INSTALLED AND ANCHORED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC, SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-6 CHAPTERS 13, 26, AND 30:

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

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

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

APPLICABLE CODE: 2022 CBC

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION 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 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8: AND 2022 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 PREAPPROVED 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 DISTRIUBTION SYSTEMS. THE STRUCTURAL ENGINEERING OF-RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

ELECTRICAL DISTRIBUTION SYSTEMS, OPTION 1: SPECIFIC NOTES AND DETAILS ARE PROVIDED ON THE PLANS, WHERE APPLICABLE.

LIONAKIS
2025 Nineteenth Street
Sacramento CA 95818
P 916.558.1900
www.lionakis.com

CONSULTANT

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FOR REVIEW ONLY / NOT FOR CONSTRUCTION
THE CONSTRUCTION DOCUMENTS HAVE NOT BEEN APPROVED BY THE ENFORCEMENT AGENCY AND ARE NOT COMPLETE OR READY FOR CONSTRUCTION. ELEMENTS, MEMBERS, SYSTEMS AND ASSOCIATED DETAILS AND SPECIFICATIONS MAY NOT BE SHOWN OR FULLY DEVELOPED. FOR BIDDING/ESTIMATING PURPOSES. UTILIZE ADDITIONAL MATERIALS AND QUANTITIES TO ACCOUNT FOR THOSE ITEMS NOT SHOWN OR FULLY DEVELOPED.

SEAL

REGISTERED PROFESSIONAL ENGINEER #E015481 Exp. 06/30/25 SCOTT WHEELER ELECTRICAL STATE OF CALIFORNIA

PROJECT
MCCLATCHY HIGH SCHOOL
ATHLETIC FIELDS RENOVATION

3066 FREEPORT BLVD,
SACRAMENTO, CA 95818

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

5735 47TH AVENUE, SACRAMENTO, CA 95824

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TITLE
ELECTRICAL DETAILS

SHEET
E400

M BAR C MULTI-PURPOSE/GYM CANOPY 22.0

PC OWNERSHIP

M BAR C CONSTRUCTION INC.

1770 LA COSTA MEADOWS DR.
SAN MARCOS, CA 92078

LIC # 869960
B AND C51

POINT OF CONTACT:
GREG JONES

PHONE: (760) 744-4131
FAX: (760) 744-4449

STANDARD NOTES FOR PC USE

- 4 S.T.E.L. ENGINEERING, INC. IS AVAILABLE TO BID THE GENERATION OF THE FULL DSA SUBMITTAL PACKAGE ACTING AS THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE (DPGRC) OR TO SUPPORT THE DPGRC AS THE SITE SPECIFIC STRUCTURAL ENGINEER OF RECORD (SEOR). CONTACT DUSTIN ROSEPINK AT 4 S.T.E.L. ENGINEERING, INC FOR A PROPOSAL FOR SERVICES AT (949) 305-1150, DKRPINK@4STELENG.COM
- FOR CONSTRUCTION COST INFORMATION, CONTACT M BAR C CONSTRUCTION, INC.
- CUSTOM SIZES AND LOADING REQUIRE SUPPLEMENTARY SHOP DRAWINGS AND CALCULATIONS.

LEGAL NOTES

DESIGN PARAMETER NOTES

1. REFER TO SHEET S-2 FOR 'DESIGN CHECK LIST' AND 'SITE SPECIFIC PARAMETERS'.
2. WHEN A SITE-SPECIFIC PROJECT IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X, A LETTER STAMPED FROM A GEOTECHNICAL ENGINEER IS REQUIRED IS NEEDED TO VALIDATE THE ALLOWABLE SOIL VALUES SPECIFIED IN THE PC DRAWINGS ARE STILL APPLICABLE. UNLESS THE BOTTOMS OF FOUNDATIONS ARE RAISED ABOVE THE DESIGN FLOOD ELEVATION, A VALIDATION LETTER FROM THE GEOTECHNICAL ENGINEER SHALL BE PROVIDED, EVEN IF THE PRESUMPTIVE LOAD BEARING VALUES PER CBC SECTION 1806A.2 ARE USED.
   EXCEPTION: WHEN A SITE-SPECIFIC PROJECT IS LOCATED IN A FLOOD ZONE D (UNDEFINED) AND THE APPLICANT PROVIDES EVIDENCE FROM THE LOCAL JURISDICTION OR A QUALIFIED DESIGN PROFESSIONAL CONFIRMING THE SITE IS NOT IN A FLOOD HAZARD ZONE.
3. WET STAMPED & SIGNED COPIES OF PC PLANS ARE NOT REQUIRED FOR SITE SPECIFIC PC USE.
4. CHANGES TO PC DOCUMENTS ARE GOVERNED BY DSA PL 07-02, SECTION 5. INCONSEQUENTIAL CHANGES MAY BE MADE TO THE EXTENT THAT THEY CAN BE REVIEWED WITHIN THE TWO-HOUR OTC TIME FRAME. CHANGES TO CODE-REGULATED ASPECTS TO PC DOCUMENTS ARE NOT PERMITTED AND SHALL BE SUBMITTED AND REVIEWED THROUGH THE REGULAR PLAN REVIEW PROCESS.
5. THE SITE SPECIFIC DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE IS RESPONSIBLE FOR ENSURING ALL INFORMATION SHOWN IN THE DESIGN PARAMETER CHECKLIST ARE MET AND PROVIDED AT THE TIME OF DSA SUBMITTAL.
6. THE SITE SPECIFIC DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE IS RESPONSIBLE FOR ENSURING 4 S.T.E.L. ENGINEERING, INC. HAS BEEN PROPERLY CONTRACTED TO PERFORM THE ROLE AS SEOR. NO OTHER FIRM SHALL PERFORM THE SEOR ROLE. 4 S.T.E.L. ENGINEERING, INC./DUSTIN ROSEPINK SHALL ONLY ACT AS THE SEOR IF PROPERLY CONTRACTED.
7. 4 S.T.E.L. ENGINEERING, INC./DUSTIN ROSEPINK WILL NOT SIGN ANY DSA FORMS (I.E. DSA-5, DSA-6, ETC.), REVIEW OR APPROVE ANY SUBMITTALS (I.E. GEOTECHNICAL REPORTS, CONCRETE MIX DESIGNS, SHOP DRAWINGS, ETC.) FOR THE SITE SPECIFIC PROJECT UNLESS HE IS ACTING AS THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR THE SITE SPECIFIC STRUCTURAL ENGINEER OF RECORD PER NOTE 3 ABOVE.
8. THE PC STRUCTURAL MEMBERS ARE DESIGNED TO THE FOLLOWING ASCE 7-16 (SUPPLEMENT 3) SEISMIC CRITERIA: $S_S = 2.8$, $S_{DS} = 1.867$, $S_1 = 1.39$, $R = 3.5$.
9. CUSTOM SIZES & LOADINGS REQUIRE SUPPLEMENTARY SHOP DRAWINGS & CALCULATIONS.
10. THE PC STRUCTURE(S) ARE APPROVED FOR BOTH CLEAR AND OBSTRUCTED WIND FLOW.

SHEET INDEX

10 SHEETS

BID INFORMATION

THE STEEL STRUCTURES IN THIS PC ARE PROPRIETARY TO M BAR C CONSTRUCTION, INC. THE STEEL WORK SHALL NOT GO OUT TO BID.

PRE-CHECK (PC) DOCUMENT

CODE: 2022 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

4 STEL ENGINEERING
26030 ACERO,
MISSION VIEJO, CA 92691
949.305.1150 | FAX 949.305.1420

M BAR C CONSTRUCTION INC.
1770 LA COSTA MEADOWS DRIVE
SAN MARCOS, CA 92078
ERIK KRIVOKOPICH
PHONE: (760) 744-4131
FAX: (760) 744-4449
ERIK@MBARCONLINE.COM
LIC # 869960
B AND C51
(775) 787-8845

ENGINEER'S APPROVAL

REGISTERED PROFESSIONAL ENGINEER
DUSTIN K. ROSEPINK
S 5885
STRUCTURAL
STATE OF CALIFORNIA

BID INFORMATION

THE STRUCTURES AND DESIGNS IN THIS PC ARE PROPRIETARY TO M BAR C CONSTRUCTION, INC. AND 4 S.T.E.L. ENGINEERING, INC. ALL SITES USING THIS PC: M BAR C CONSTRUCTION, INC. SHALL BE THE STEEL CONTRACTOR & 4 S.T.E.L. ENGINEERING, INC. SHALL BE THE SEOR. SEE THE STANDARD NOTES FOR PC USE ON S-1 FOR ADDITIONAL REQUIREMENTS.

PRE-CHECK (PC) DOCUMENT

CODE: 2022 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122015 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 11/09/2023

SITE SPECIFIC INFORMATION

REVISIONS

MARK	DATE	DESCRIPTION

4 STEL JOB #	MC05-02-1
DATE	11-01-23
DRAWN BY	NML
CHECKED	CDL

TITLE SHEET

S-1

NOTE: IF DWG. IS NOT 24 x 36, IT IS NOT FULL SIZE

LIONAKIS
2025 Nineteenth Street
Sacramento CA 95818
P 916.558.1900
www.lionakis.com

CONSULTANT

SEAL

LICENSED ARCHITECT
BRIAN BELL
C28712
REN. 01-31-25
STATE OF CALIFORNIA

PROJECT
MCCLATCHY HIGH SCHOOL
ATHLETIC FIELD RENOVATION

3066 FREEPORT BLVD,
SACRAMENTO, CA 95818

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

425 1ST AVE, SACRAMENTO, CA 95818.

ISSUED

MARK	DATE	DESCRIPTION
	12/7/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

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DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	
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TITLE
TITLE SHEET

SHEET
S-1

0 1/4" 1/2" 1" 2"

IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY

BIM 360://023040 SCUSD McClatchy HS Fields/023040_ARCHSITE_R20_CENTRAL.rvt

12/8/2023 8:05:01 AM

DESIGN CHECK LIST

INSTRUCTIONS:
DESIGN PROFESSIONAL SHALL ENSURE ADEQUACY OF PC DESIGN AND PLAN PREPARATION BY VERIFYING THAT ALL THE APPLICABLE CHECKLIST ITEMS BELOW HAVE BEEN PROPERLY EVALUATED/EXECUTED

SUBMISSION IS FOR: □ OTC ■ REGULAR SUBMITTAL

SEOR

- ■ S-2: VERIFY THAT TABLES IN 'SITE SPECIFIC PARAMETERS' SECTION HAVE BEEN COMPLETED
- ■ S-2: VERIFY WHETHER SPRINKLERS ARE INSTALLED PER 'MAX. DESIGN PARAMETERS' OPTION
- ■ S-2: VERIFY IF CGS APPROVAL OF GEOTECHNICAL REPORT REQUIRED BECAUSE INDIVIDUAL PC STRUCTURES EXCEED 4000 SQ FT OR SITE IS LOCATED IN A STATE OR LOCAL GEOHAZARD ZONE. STRUCTURES MAY BE BROKEN UP INTO MULTIPLE 4,000 SQ FT STRUCTURES WITH SEISMIC BREAKS PER SEISMIC GAPS ON S-2.
- ■ S-2: VERIFY SITE-SPECIFIC WIND PARAMETERS AT ANY AND ALL SITES WHERE THIS PC IS USED. THIS PC DESIGN IS BASED ON WIND SPEED 105 MPH FOR RISK CATEGORY III TYPE STRUCTURES UTILIZING EXPOSURE TYPE C PER ASCE 7-16
- ■ S-2: VERIFY THE MAXIMUM SEISMIC S_{DS} AT THE SITE DOES NOT EXCEED S_{DS} = 1.867
- ■ S-2: VERIFY THE SITE SPECIFIC SNOW LOAD AND ENSURE ALL SITE SPECIFIC PC SELECTIONS MEET OR EXCEED THE SITE SPECIFIC SNOW LOAD. THIS PC HAS OPTIONS FOR NO SNOW AND 20 PSF SNOW LOAD. VERIFY THE SITE SPECIFIC DESIGN PROFESSIONAL HAS PROVIDED THE PROPER SITE SPECIFIC VALUES FOR P_G, P_F, P_S, C_E, I, C_T. FOR SNOW LOADS IF THE HORIZONTAL SEPARATION FROM ANY STRUCTURE IS LESS THAN 20-FT, SNOW DRIFT ANALYSIS SHALL BE PROVIDED BY THE PC APPLICANT, AND THE SITE APPLICATION IS NOT ELIGIBLE FOR OVER-THE-COUNTER (OTC) SUBMITTAL.
- ■ S-2: VERIFY THE SITE SPECIFIC PLANS UTILIZE A RISK CATEGORY II OR III STRUCTURE. RISK CATEGORY III STRUCTURES SHALL NOT PROVIDE SHELTER FOR EMERGENCY VEHICLES OR EQUIPMENT; OR PROVIDE REQUIRED ACCESS TO, REQUIRED EGRESS FROM, OR SHARE A LIFE SAFETY COMPONENT WITH A RISK CATEGORY IV STRUCTURE.
- ■ S-2: VERIFY SELECTION OF USE AND OCCUPANCY CLASSIFICATION PER CBC CHAPTER 3; OCCUPANT LOAD FACTOR PER CBC TABLE 1004.5; RISK CATEGORY PER CBC TABLE 1604A.5; TO BE COMPLETED BY DESIGN PROFESSIONAL AT TIME OF DSA OTC OR PROJECT DSA SUBMITTAL.
- ■ S-2: VERIFY APPROPRIATE SEISMIC SEPARATION PER 'STRUCTURAL DATA'
- ■ S-2: VERIFY 'CONSTRUCTION OPTIONS' ARE SELECTED
- ■ S-2: VERIFY MAX. DESIGN PARAMETERS, SPRINKLER YES OR NO, SEISMIC SITE CLASS, ARE SELECTED
- ■ S-3: VERIFY THAT OPTIONS FOR CONCRETE DURABILTY BASED ON EXPOSURE CLASS AND THE FOUNDATION SOILS CLASS HAVE BEEN SELECTED.
- ■ S-3: VERIFY THE SITE SPECIFIC FOUNDATION LOCATIONS MEET WITH NOTE 9 ON S-3 IN THE SOILS NOTES SECTION FOR SET BACK FROM TOP OF SLOPES, OR THAT THE GEOTECHNICAL REPORT HAS ALLOWED A SMALLER DISTANCE.
- ■ S-3: ALLOWABLE LATERAL PRESSURE OF SOIL AT PROJECT SITE LIMITS GROUND-LEVEL LATERAL DISPLACEMENT OF THE STRUCTURE TO A MAXIMUM OF 1/2"
- ■ S-3: SITE SPECIFIC GEOTECHNICAL REPORT HAS BEEN PROVIDED WITH A GEOHAZARD SECTION INCLUDED. REFER TO SOILS NOTES #1 ON SHEET S-3 IF NO GEOTECHNICAL REPORT IS PROVIDED.
- ■ S-3: SITE SPECIFIC DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE TO SELECT SOILS CLASS FOR SITE SPECIFIC USE.
- ■ S-5: VERIFY THAT HOT ROLLED SECTIONS 5/S-5 & 6/S-5 HAVE BEEN SELECTED BASED ON THE SITE SPECIFIC PC ID'S UTILIZED IN BEAM & COLUMN SCHEDULE 1/S-6.
- ■ S-6: VERIFY PITCHED OR MONOSLOPE OPTION IS SELECTED.
- ■ S-6: VERIFY PURLIN CANTILEVER SPAN BLOCKING MIDSPAN OR NO BLOCKING OPTION.
- ■ S-7: VERIFY DETAIL 1 OR 2 IS SELECTED AND M1-M4 OPTIONS, FOUNDATION DETAIL OPTIONS, BASE CONNECTION OPTIONS AREA SELECTED.
- ■ S-7: VERIFY DETAIL 3 PITCHED OR MONOSLOPE ROOF OPTION IS SELECTED, FOUNDATION AND NONSTRUCTURAL BOLLARD DETAIL OPTIONS.
- ■ S-8: DETAIL 1 & 3, VERIFY PC ID FOUNDATION SELECTION MATCHES SITE SPECIFIC LAYOUT AND THAT SOILS CLASS SELECTION MATCHES S-3. VERIFY THAT SPIRAL TIE LENGTH AND SPACINGS HAVE BEEN SELECTED IN DETAIL 3, VERIFY IF STEEL CASING REQUIRED IN DETAIL 1. VERIFY IF NON-STRUCTURAL BOLLARD IS REQUIRED PER DETAIL 5/S-12.
- □ S-8: DETAIL 2, VERIFY SPREAD FOOTING PC ID SELECTION MATCHES SITE SPECIFIC LAYOUT. VERIFY IF NON-STRUCTURAL BOLLARD IS REQUIRED PER DETAIL 5/S-8.
- ■ S-8: DETAIL 1, 2, 5, VERIFY EMBEDDED OR BASE PLATE COLUMN OPTION
- □ S-8: DETAIL 4, VERIFY BASE PLATE COLUMN OPTION IS USED
- ■ S-8: VERIFY OPTIONAL NONSTRUCTURAL BOLLARD SELECTIONS MATCH SITE SPECIFIC PLANS. VERIFY FOUNDATION OPTIONS FOR CONDUIT ROUTING MATCH SITE SPECIFIC PLANS.
- □ S-8: VERIFY IF PIER FOUNDATION STRADDLES THE INTERFACE BETWEEN HARD/STIFF AND SOFT SOILS STRATA
- ■ S-9: DETAIL 4, 8, 13. VERIFY M1-4 OPTIONS ARE SELECTED
- ■ S-10: VERIFY APPLICABLE LIGHTING DETAIL 14/S-10 IS SELECTED
- ■ S-10: VERIFY WHETHER DETAIL 9/S-10, 11/S-10 OPTIONS ARE SELECTED.

SITE SPECIFIC PARAMETERS

INSTRUCTIONS:
DESIGN PROFESSIONAL SHALL CHECK THE APPROPRIATE SELECTION BOXES BELOW AND ENTER THE DESIGN PARAMETERS APPLICABLE TO THE SPECIFIC PROJECT SITE.

SNOW

■ 0 psf | pg = ______ psf; pf' = ______ psf; Ce = ______ | □ 5 psf | □ 20 psf

WIND

V = 93 mph < 105 mph
Kzt = 1 ≤ 1
EXPOSURE: ■ C □ D

SEISMIC (SELECT ONE)

□ DESIGN BASED ON SITE CLASS $D_{DEFAULT}$
NO GEOTECHICAL INVESTIGATION REQUIRED
S_S = ______ Fa = 1.2

■ DESIGN BASED ON SITE CLASS DETERMINED PER CHAPTER 20 OF ASCE 7-16
GEOTECHICAL INVESTIGATION PROVIDED
SITE CLASS: □ C ■ D □ E
S_S = 0.576 Fa = 1.34 PER ASCE 7-16 SUPPL 3, TABLE 11.4-1

□ DESIGN BASED ON SITE SPECIFIC GROUND MOTION HAZARD ANALYSIS PER CHAPTER 21 OF ASCE 7-16
SHORT-PERIOD DESIGN SPECTRAL RESPONSE PARAMETER, S_{DS}, SHALL BE AS SPECIFIED IN GEOTECHNICAL INVESTIGATION
CGS APPROVAL REQUIRED
NOT ELIGIBLE FOR OTC REVIEW
SITE CLASS: □ C □ D □ E

S_{DS} = $^2/_3$ Fa. S_S = 0.51 ≤ 1.867
C_S = 0.15 < 0.667 USED IN DESIGN
SEISMIC DESIGN CATEGORY: ■ D □ E

STRUCTURAL DATA

LATERAL RESISTING SYSTEM .... ORDINARY STEEL MOMENT FRAME
FOUNDATION .... CONCRETE DRILLED PIERS AND SPREAD FOOTINGS
MINIMUM SEISMIC SEPARATION .... 6.0"
TESTING AND INSPECTION LIST .... SEE SHEETS S-3 & S-4

MAX. DESIGN PARAMETERS

RISK CATEGORY III

ROOF LIVE LOAD (L_R):
DECK ONLY .... 20 psf
POINT LOAD .... 300 lb

SNOW:
GROUND SNOW, P_G = ■ 0 PSF, □ 5 PSF, □ 20.0 PSF
C_E = 0.9
C_T = 1.2
I = 1.0
C_S = 1.0
P_S = $0.7 C_E C_T I P_G C_S$
ROOF SNOW, P_F = ■ 0 PSF, □ 5 PSF, □ 20.0 PSF
P_{SE} = 0.0 PSF

MAXIMUM DEAD LOAD:
ROOF DECK .... 0.93 psf
SPRINKLER .... 1.46 psf □ YES ■ NO
(SEISMIC MASS ONLY. SITE SPECIFIC SPRINKLER CONNECTIONS ARE NOT PROVIDED IN THIS PC. CALCULATIONS AND DETAILS FOR SPRINKLERS PROVIDED BY OTHERS.)

WIND: ASCE 7-16 METHOD 2 - ANALYTICAL PROCEDURE
BASIC WIND SPEED .... 105 mph
WIND EXPOSURE C
INTERNAL PRESSURE .... N/A (OPEN STRUCTURE)
WIND DIRECTIONALITY FACTOR .... K_d = 0.85
VELOCITY PRESSURE COEFFICIENT .... K_z = 0.96
■ TOPOGRAPHIC FACTOR .... K_{zt} = 1.00

SEISMIC: ASCE 7-16
SEISMIC IMPORTANCE FACTOR .... I = 1.25
RESPONSE MODIFICATION FACTOR .... R = 3.5
MAPPED SPECTRAL RESPONSE .... S_S = 2.8
ACCELERATION .... S_1 = 1.39
SITE CLASS .... ■ A-D □ E (NOT IN LIQUEFIABLE SOIL AND/OR SITE CLASS F)
DESIGN SPECTRAL RESPONSE .... S_{DS} = 1.867
S_{D1} = 1.390
SEISMIC DESIGN CATEGORY .... E (1)
SEISMIC FORCE RESISTING SYSTEM .... ORDINARY STEEL MOMENT FRAME (OMF) BOTH DIRECTIONS
SEISMIC RESPONSE COEFFICIENT .... $C_S = S_{DS} I/R$ = 0.667
ANALYSIS PROCEDURE .... EQUIVALENT LATERAL FORCE
BASE .... FROM USABLE SOIL HT. PER GEOTECHNICAL REPORT

NOTES:
1. FOR BUILDINGS ASSIGNED TO SEISMIC DESIGN CATEGORY E OR F, A GROUND MOTION HAZARD ANALYSIS SHALL BE PERFORMED IN ACCORDANCE PER ASCE 7-16 (SUPPLEMENT 3) CH 21 AS MODIFIED BY CBC SECTION 1803A.6

CONSTRUCTION OPTIONS

ALL CONSTRUCTION OPTIONS INCLUDE OPTIONS FOR CONCRETE DRILLED PIERS AND/OR SPREAD FOOTINGS.
■ □

■ M1
40'-0" MAX. BEAM SPAN BETWEEN COLUMNS
2:12 MAX. ROOF SLOPE
21'-0" MAX. COLUMN HEIGHT
6'-0" MAX. BEAM CANTILEVER
0'-0" MIN. BEAM CANTILEVER

□ M2
40'-0" MAX BEAM SPAN BETWEEN COLUMNS
2:12 MAX. ROOF SLOPE
23'-0" MAX. COLUMN HEIGHT
6'-0" MAX. BEAM CANTILEVER
0'-0" MIN. BEAM CANTILEVER

□ M3
66'-0" MAX. BEAM SPAN BETWEEN COLUMNS
2:12 MAX. ROOF SLOPE
21'-0" MAX. COLUMN HEIGHT
10'-0" MAX. BEAM CANTILEVER
0'-0" MIN. BEAM CANTILEVER

□ M4
66'-0" MAX. BEAM SPAN BETWEEN COLUMNS
2:12 MAX. ROOF SLOPE
23'-0" MAX. COLUMN HEIGHT
10'-0" MAX. BEAM CANTILEVER
0'-0" MIN. BEAM CANTILEVER

CONSTRUCTION TYPE

TYPE OF CONSTRUCTION .... II-B
OCCUPANCY .... E

NOTE: OCCUPANCIES OTHER THAN A-2/A-3 MAY BE UTILIZED PROVIDED THEY CONFORM TO THE FOLLOWING:
1) RISK CATEGORY IS SELECTED IN ACCORDANCE WITH 2022 CBC TABLE 1604A.5, PENDING DSA SITE SPECIFIC APPROVAL.
2) OCCUPANCY IS DETERMINED IN ACCORDANCE WITH THE REQUIREMENTS OF 2022 CBC CHAPTERS 3 AND 5.
3) THE ALLOWABLE HEIGHT AND BUILDING AREA IS LIMITED TO THE REQUIREMENTS PER 2022 CBC TABLE 504.3.

NUMBER OF STORIES 1
ALLOWABLE BUILDING AREA .... 9,500 SQ. FT
BUILDING LENGTH .... MAXIMUM 500 FT LENGTH

NOTE: SEISMIC AND/OR THERMAL EXPANSION JOINTS NOT REQUIRED ALONG THE LENGTH OF THE STRUCTURES (ALL JOINTS ARE INTERNAL).

GENERAL NOTES

1. ALL WORK SHALL CONFORM TO 2022 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
2. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENTS APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR
3. A 'DSA CERTIFIED' PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR).
4. A 'DSA CERTIFIED' INSPECTOR WITH CLASS 2 CERTIFICATION IS REQUIRED FOR THIS PROJECT.
5. A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE SCHOOL BOARD SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
6. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
7. IF THE PROJECT IS DIVIDED INTO INCREMENTS: THE SCOPE OF WORK FOR EACH INCREMENT MUST BE CLEARLY SPECIFIED ON THE TITLE SHEET OF ALL INCREMENTS SUBMITTED.

CODES

GOVERNING CODES:

CALIFORNIA CODE OF REGULATIONS

2022 CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
(2021 INTERNATIONAL BUILDING CODE VOLUMES 1-2 AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
(2020 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R.
(2021 UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
(2021 UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.
2022 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.
(2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24 C.C.R.
2022 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

NFPA 13	AUTOMATIC FIRE SPRINKLER SYSTEMS	2022 EDITION
NFPA 72	NATIONAL FIRE ALARM & SIGNALING CODE	2022 EDITION

REFERENCE CODE SECTIONS FOR APPLICABLE STANDARDS:

2022 CBC, CHAPTER 35
2022 CFC, CHAPTER 80

FIRE LIFE SAFETY

AUTOMATIC FIRE SPRINKLERS REQUIRED? (Y/N) .... N

1. FOR ALL CANOPY ARRAYS - VERIFY COMPLIANCE W/ CFC 503.2.1
NEW FIRE APPARATUS ACCESS ROADS SHALL HAVE AN UNOBSTRUCTED WIDTH OF NOT LESS THAN 20 FEET, EXCLUSIVE OF SHOULDERS, EXCEPT FOR APPROVED SECURITY GATES IN ACCORDANCE WITH SECTION 503.6, AND AN UNOBSTRUCTED VERTICAL CLEARANCE OF NOT LESS THAN 13 FEET 6 INCHES

ACCESS

1. CONCRETE BOLLARD ABOVE FOUNDATIONS (RAISED PIERS) CANNOT BE LOCATED IN ACCESSIBLE PARKING SPACES OR ACCESS AISLES.
2. SLOPED PORTIONS OF FOUNDATIONS, WHEN LOCATED IN ACCESSIBLE PARKING STALL OR ACCESS AISLE, MUST HAVE A SLOPE LESS THAN OR EQUAL TO 2.08%
3. MINIMUM ARRAY CLEAR HEIGHTS IN ACCESSIBLE AREAS:
8'-2" - WHEN LOCATED OVER ACCESSIBLE PARKING OR ACCESS AISLES
9'-6" - WHEN LOCATED OVER ACCESSIBLE PASSENGER LOADING ZONES

4 STEL ENGINEERING
26030 ACERO,
MISSION VIEJO, CA 92691
949.305.1150 | FAX 949.305.1420

M BAR C CONSTRUCTION INC.

ENGINEER'S APPROVAL
REGISTERED PROFESSIONAL ENGINEER DUSTIN K. ROSEBANK S 5865

BID INFORMATION
THE STRUCTURES AND DESIGNS IN THIS PC ARE PROPRIETARY TO M BAR C CONSTRUCTION, INC. AND 4 S.T.E.L. ENGINEERING, INC. ALL SITES USING THIS PC: M BAR C CONSTRUCTION, INC. SHALL BE THE STEEL CONTRACTOR & 4 S.T.E.L. ENGINEERING, INC. SHALL BE THE SEOR. SEE THE STANDARD NOTES FOR PC USE ON S-1 FOR ADDITIONAL REQUIREMENTS.

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122015 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG □
DATE: 11/09/2023

SITE SPECIFIC INFORMATION

REVISIONS

MARK	DATE	DESCRIPTION

4 STEL JOB # MC05-02-1
DATE 11-01-23
DRAWN BY NML
CHECKED CDL

GENERAL DATA

S-2

LIONAKIS
2025 Nineteenth Street
Sacramento CA 95818
P 916.558.1900
www.lionakis.com

CONSULTANT

SEAL
LICENSED ARCHITECT BRIAN BELL C28712 REN. 01-31-25 STATE OF CALIFORNIA

PROJECT
MCCLATCHY HIGH SCHOOL
ATHLETIC FIELD RENOVATION
3066 FREEPORT BLVD,
SACRAMENTO, CA 95818

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
425 1ST AVE, SACRAMENTO, CA 95818.

ISSUED

MARK	DATE	DESCRIPTION
	12/7/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

LIONAKIS PROJECT NO:	023040
DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	
COPYRIGHT:	LIONAKIS 2017

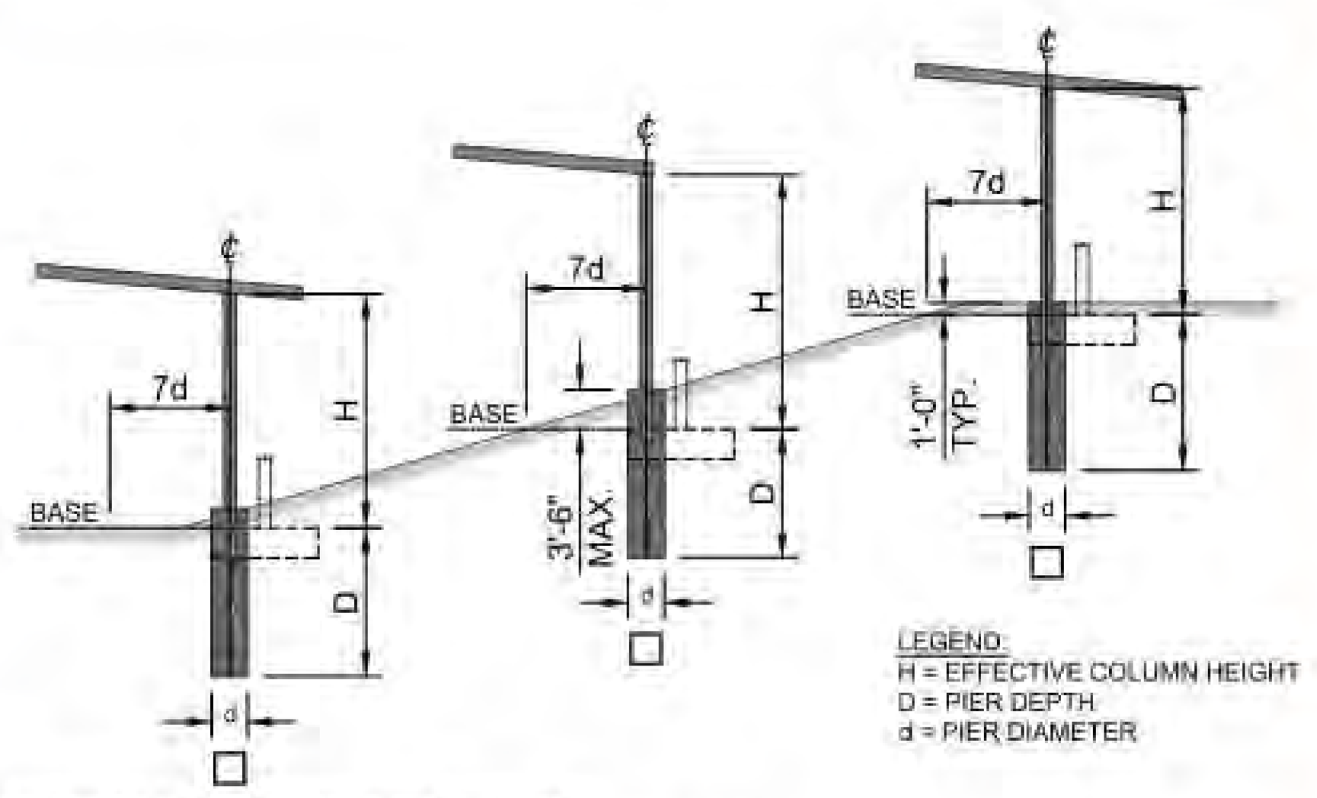
TITLE
GENERAL DATA

SHEET
S-2

SOILS AND FOUNDATIONS

1. A SITE SPECIFIC GEOTECHNICAL REPORT IS REQUIRED.
2. THE GEOTECHNICAL ENGINEER SHALL REVIEW THE SITE CONDITIONS, TESTING RESULTS, AND ALL ALLOWABLE INCREASES AND SUPPLY THE FINAL SOIL CLASS TO BE USED FROM THE BELOW TABLE. THE GEOTECHNICAL ENGINEER SHALL PROVIDE IN THE GEOTECHNICAL REPORT THE FOLLOWING BASE VALUES WITHOUT INCREASE FOR 24" DIAMETER PIERS: THE ALLOWABLE VERTICAL END BEARING, ALLOWABLE LATERAL BEARING, ALLOWABLE DOWNWARD SKIN FRICTION, ALLOWABLE SKIN FRICTION TO RESIST UPLIFT. THE GEOTECHNIICAL ENGINEER SHALL ALSO PROVIDE ANY ALLOWABLE INCREASES TO THE BASE VALUES. ALLOWABLE INCREASES ARE TYPICALLY DUE TO BUT NOT EXCLUSIVE TO: DOUBLE VALUES DUE TO ISOLATED FOUNDATIONS, DOUBLE VALUES DUE TO THE STRUCTURE NOT BEING ADVERSELY AFFECTED BY 1/2" DEFLECTION AT THE SURFACE, A 4/3 INCREASE DUE TO SHORT TERM LOADING, AND ANY OTHER ALLOWABLE INCREASES. THE GEOTECHNICAL ENGINEER SHALL MAKE RECOMMENDATION OF THE SOIL CLASS TO BE USED AFTER ALL INCREASES HAVE BEEN APPLIED. ALL FOUNDATIONS HAVE BEEN DESIGN BASED ON THE VALUES PRESENTED IN THE BELOW TABLE. THE GEOTECHNICAL REPORT SHALL ADDRESS IF THE USE OF STEEL CASING THAT IS TWISTED INTO PLACE AND LEFT INSTALLED AFFECTS ANY ALLOWABLE VALUES.
3. THE GEOTECHNICAL ENGINEER MAY SPECIFY DIFFERENT SOILS CLASSES TO BE USED FOR THE DIFFERENT STRUCTURE TYPES (VC14 OR VC20), DIFFERENT AREAS OF THE SITE (I.E. NORTH LOT OR WEST LOT), OR THE ENGINEER MAY SPECIFY ONE SOILS CLASS TO BE USED FOR THE ENTIRE SITE.
4. THE GEOTECHNICAL ENGINEER SHALL ADDRESS IN THE REPORT ANY CONCRETE DURABILITY REQUIREMENTS IN ACCORDANCE WITH ACI 318-19 CHAPTER 19.
5. THE GEOTECHNICAL REPORT SHALL BE SPECIFIC TO THE LOCATION OF THE STRUCTURES. BORING(S) SHALL BE DONE AT THE SPECIFIC LOCATION(S) WHERE THE STRUCTURES ARE TO OCCUR. THE GEOTECHNICAL REPORT SHALL CONFORM TO 2022 CBC SECTION 1803A.
6. A COPY OF THE GEOTECHNICAL REPORT SHALL BE PROVIDED AT THE TIME OF PLAN REVIEW.
7. AT THE TIME OF PLAN REVIEW, THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE SHALL SELECT A SOILS CLASS ON THE SITE-SPECIFIC PLANS BASED ON THE GEOTECHNICAL REPORT.

   HOLES MAY BE LEFT OPEN FOR ANY AMOUNT OF TIME AS LONG AS THEY ARE PROPERLY COVERED FOR OSHA STANDARDS.
8. DESIGN OF PC STRUCTURE ASSUMES A MAXIMUM LATERAL DISPLACEMENT OF 1/2" AT THE BASE. ALLOWABLE LATERAL BEARING VALUES THAT RESULT IN LARGER DISPLACEMENTS ARE NOT ACCEPTABLE FOR USE WITH THIS PC STRUCTURE.
9. FOUNDATIONS ADJACENT TO SLOPED GROUND SURFACES SHALL BE SET BACK PER THE FOLLOWING FIGURE UNLESS OTHERWISE RECOMMENDED BY A SITE SPECIFIC GEOTECHNICAL REPORT.



BASE:
TOP OF 'USABLE SOIL PER GEOTECHNICAL REPORT'
SEE DETAILS 1/S-7, 2/S-7, 3/S-7, 1/S-8, 2/S-8, 4/S-8 FOR BASE LOCATION.

PIER FOUNDATIONS - FINAL DESIGN VALUES [1,2,3,4,5]

USE	SOILS CLASS	VERTICAL BEARING PRESSURE (psf)	LATERAL BEARING PRESSURE (psf/ft)	MAXIMUM LATERAL BEARING (psf)	MIN. DOWNWARD SKIN FRICTION (psf)	MIN. UPWARD SKIN FRICTION (psf)
■	CLASS V	0	133	2,000	180	50
☐	CLASS W	0	267	4,000	240	100
☐	CLASS X	0	400	6,000	270	100
☐	CLASS Y	0	533	8,000	300	100
☐	CLASS Z	0	800	12,000	340	120

SPREAD FOOTINGS - FINAL DESIGN VALUES [1,2,3]

USE	SOILS CLASS	MIN. ALLOWABLE END BEARING (psf)	MIN. ALLOWABLE LATERAL BEARING (psf/ft)	MAX. LATERAL BEARING (psf)	SLIDING FRICTION μ
☐	ALL	1,500	100	2,000	0.25

NOTES:
1. TABLE ALREADY TAKES INTO ACCOUNT 1/3 INCREASE AND DOUBLING OF THE PASSIVE PRESSURE WITHOUT ANY FURTHER INCREASES. GEOTECHNICAL ENGINEER IS REQUIRED TO SPECIFY THE SOILS CLASS WHERE FINAL VALUES WITH INCREASES ARE NOT ALLOWED TO EXCEED THESE VALUES)
2. DOUBLING THE PASSIVE PRESSURE DUE TO SOIL ARCHING EFFECTS IS NOT ALLOWED IN CONJUCTION WITH DOUBLING BASED ON THE 1/2" DEFLECTION AT THE SURFACE.
3. THE FOUNDATION DESIGNS FOR THIS PC ARE BASED ON 2022 CBC ALTERNATE BASIC LOAD COMBINATIONS PER SECTION 1605A.3.2 WHERE 1/3 INCREASES ARE ALLOWED.
4. END BEARING NOT USED FOR PIER FOUNDATION DESIGN.
5. WHEN NO GEOTECHNICAL REPORT IS PROVIDED USE SOIL CLASS V.

CONCRETE

1. CONCRETE MIN. 4,500 PSI AT 28 DAYS, WITH CEMENT TYPE V, AND WATER/CEMENT RATIO OF 0.45 UNLESS A SOILS REPORT IS PROVIDED THAT ALLOWS FOR ALOWER STRENGTH (4,000 PSI MIN.). BATCH PLANT INSPECTION NOT REQUIRED.
2. CONRETE SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS BASED ON EXPOSURE CLASS IN ACCORDANCE WITH ACI 318-19 TABLE 19.3.1.1 WHEN DETERMINED BY A SITE-SPECIFIC GEOTECHNICAL REPORT.

REQUIREMENTS FOR CONCRETE BASED ON EXPOSURE CLASS

USE	EXPOSURE CLASS ACI TABLE 19.3.1.1	MINIMUM CONCRETE STRENGTH F'_c	CEMENT TYPE ASTM C150	MAX. WATER/CEMENT RATIO W/M
☐	NOT DETERMINED	4,500 PSI	TYPE V	0.45
■	F0, S0, W0, W1, C0, C1	4,000 PSI	TYPE II	N/A
☐	S1, W2	4,000 PSI	TYPE II	0.50
☐	C2, F3	5,000 PSI	TYPE V	0.40
☐	ALL OTHER	4,500 PSI	TYPE V	0.45

3. CONCRETE EXPOSED TO THAW AND FREEZE CYCLE SHALL BE AIR ENTRAINED PER ACI 318-19 TABLE 19.3.3.1
4. CONCRETE TO ATTAIN 1000 PSI PRIOR TO REMOVAL OF SHORING AND/OR INSTALLATION OF BEAMS AND PURLINS. (NOTE: A HIGHER COMPRESSIVE CONCRETE MAY BE USED TO ACHIEVE 1000 PSI SOONER. SUBMIT CONCRETE MIX DESIGN PREPARED BY A QUALIFIED LICENSED PROFESSIONAL ENGINEER FOR APPROVAL BY THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO BEING PLACED.
5. CONCRETE TO REACH 4000 PSI PRIOR TO INSTALLATION OF ROOF DECK. (NOTE: A HIGHER COMPRESSIVE CONCRETE MAY BE USED TO ACHIEVE 4000 PSI SOONER. SUBMIT CONCRETE MIX DESIGN PREPARED BY A QUALIFIED LICENSED PROFESSIONAL ENGINEER FOR APPROVAL BY THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO BEING PLACED.
6. REINFORCEMENT BARS SHALL BE ASTM A615, GR60 TYPICAL, U.N.O.
7. MINIMUM CONCRETE COVER SHALL BE 2½" TO EARTH (DRILLED PIER FOUNDATIONS ONLY), 3" TO EARTH ALL OTHER CONCRETE, 2" TO EXPOSED SURFACES PER CBC TABLE 1808A.8.2
8. ALL REINFORCING STEEL AND OTHER EMBEDDED ITEMS SHALL BE SECURELY POSITIONED PRIOR TO THE POURING OF CONCRETE.
9. ALL CONCRETE WORK SHALL COMPLY WITH ACI 301 & 316 STANDARDS.
10. AGGREGATE GRADATION AND QUALITY SHALL BE IN ACCORDANCE WITH ACI 302-IR.
11. COLD JOINTS SHALL HAVE A ROUGHENED SURFACE. BONDING AGENT SHALL COMPLY WITH ASTM C1059. A SUBMITTAL FOR CONCRETE BONDING AGENT SHALL BE APPROVED BY DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO INSTALLATION. DSA INSPECTOR OF RECORD TO PERIODICALLY INSPECT INSTALLATION OF BONDING AGENT.
12. BATCH PLANT INSPECTION NOT REQUIRED PER CBC 1705A3.3.2. SUBJECT TO:
    - A LICENSED WEIGHMASTER SHALL POSITIVELY IDENTIFY QUANTITY OF MATERIALS AND CERTIFY EACH LOAD BY A BATCH TICKET.
    - BATCH TICKETS, INCLUDING MATERIAL QUANTITIES AND WEIGHTS SHALL ACCOMPANY THE LOAD, SHALL BE TRANSMITTED TO THE INSPECTOR OF RECORD BY THE TRUCK DRIVER WITH LOAD IDENTIFIED THEREON. THE LOAD SHALL NOT BE PLACED WITHOUT A BATCH TICKET IDENTIFYING THE MIX. THE INSPECTOR OF RECORD SHALL KEEP A DAILY RECORD OF PLACEMENTS, IDENTIFYING EACH TRUCK, ITS LOAD, AND TIME OF RECEIPT AT THE JOBSITE, AND APPROXIMATE LOCATION OF DEPOSIT IN THE STRUCTURE AND SHALL MAINTAIN A COPY OF THE DAILY RECORD AS REQUIRED BY THE ENFORCEMENT AGENCY.
13. CONCRETE MAY BE PUMPED, POURED, TAILGATED, OR OTHER SUCH METHODS INTO PLACE. CONCRETE SHALL BE ALLOWED TO FREE FALL THE ENTIRE DEPTH OF THE FOUNDATION, AS INDICATED IN ACI 304R-09, CHAPTER 5. PLACEMENT OF ANY FREE-FALL CONCRETE SHALL BE SUCH THAT THE CONCRETE DOES NOT ALTER THE EMBEDMENT DEPTH OR THE CLEARANCE OF THE REINFORCING BAR CAGE OR OTHER EMBEDDED MATERIALS.

STRUCTURAL STEEL

1. COLD FORMED STEEL SIZES ARE BASED ON BARE STEEL THICKNESS.
2. STRUCTURAL AND COLD FORMED STEEL PURLIN, BEAM AND COLUMN MEMBERS SHALL HAVE MINIMUM STEEL YIELD STRENGTH INDICATED.
3. EXPOSED STEEL FASTENERS INCLUDING CAST-IN-PLACE ANCHOR BOLTS SHALL BE EITHER HOT DIP GALVANIZED (ASTM A153, CLASS D MINIMUM), STAINLESS STEEL TYPE 304 MINIMUM OR PROTECTED WITH CORROSION PREVENTIVE COATING THAT DEMONSTRATED NO MORE THAN 2% OF RED RUST IN MINIMUM 1,000 HRS OF EXPOSURE TO SALT SPRAY TEST PER ASTM B117. ZINC-PLATED FASTENERS DO NOT COMPLY WITH THIS REQUIREMENT.
4. STEEL FABRICATION SHALL COMPLY WITH LATEST AISC SPECIFICATIONS.
5. HOLLOW STRUCTURAL STEEL (HSS) MEMBERS SHALL BE ASTM A1085 GRADE 50 UNLESS NOTED OTHERWISE. ASTM A1085 STEEL HAS THE SAME OR BETTER PROPERTIES AND WELDABILITY THAN ASTM A500 GRADE B.
6. HOT ROLLED WIDE FLANGE STEEL SECTIONS SHALL BE ASTM A992, F_y= 50 KSI.
7. COLD FORMED STEEL (CFS) PURLINS SHALL BE ASTM A653 SS GRADE 55 (F_y=55 ksi, F_u=70 ksi) OR ASTM A1011 SS GRADE 55 (F_y=55 KSI, F_u=70 ksi).
8. STRUCTURAL STEEL SHALL BE HOT-DIP GALVANIZED (MINIMUM ASTM A123 OR A153 CLASS D, AS APPLICABLE) OR PAINTED WITH ZINC-RICH PRIMER, UNDERCOAT, AND FINISH COAT; OR EQUIVALENT PAINT SYSTEM. COLD-FORMED STEEL MEMBERS SHALL BE 55 PERCENT ALUMINUM-ZINC ALLOY COATED PER ASTM A792/A792M STANDARD IN ACCORDANCE TO AISI S240 TABLE A4-1, CP 90 COATING DESIGNATION.
9. BOLTS SHALL CONFORM TO THE ASTM A307 SPECIFICATIONS UNLESS NOTED OTHERWISE. INSPECTIONS ARE REQUIRED FOR ASTM VERIFICATION AND INSTALLATION. A307 BOLTS ARE NOT CONSIDERED HIGH STRENGTH BOLTS AND THUS HIGH STRENGTH BOLT TESTING IS NOT REQUIRED.
10. ASTM A307 BOLTS MAY BE SUBSTITUTED WITH THE SAME NUMBER AND SIZE OF SAE J429 GRADE 2 BOLTS.
11. BOLTS SHALL BE TIGHTENED TO SNUG-TIGHT CONDITION UNLESS NOTED OTHERWISE EXCEPT FOR A325-SC HIGH STRENGTH BOLTS.
12. A325-SC BOLTS SHALL BE PRE-TENSIONED PER AISC SPECIFICATIONS USING APPROVED LOAD INDICATOR METHODS INCLUDING BUT NOT LIMITED TO TURN-OF-THE NUT WITH MATCH MARKING, TWIST OFF TENSION CONTROL OR DIRECT TENSION INDICATOR BOLT BUT AND WASHER ASSEMBLIES.
13. BOLTS SHALL HAVE STANDARD WASHERS UNDER THE NUT & BOLT HEAD (F436 WASHERS NOT REQUIRED). STANDARD WASHERS DO NOT REQUIRE HARDNESS TEST.
14. STANDARD ROUND BOLT HOLES MAY BE USED WHERE SHORT HORIZONTALLY SLOTTED BOLT HOLES ARE SHOWN.
15. HOLES FOR 1/2" DIAMETER BOLTS SHALL BE STANDARD HOLES 9/16" Ø TYPICAL U.N.O.
16. ALL BOLTS SHALL BE PROVIDED WITH METHOD TO PREVENT NUTS FROM LOOSING. SAMPLE ACCEPTABLE METHODS ARE: LOCK WASHERS, NYLOCK NUT, SERRATED NUTS (IF NO WASHERS USED). ONLY ONE METHOD IS REQUIRED. CONTRACTOR TO IDENTIFY WHICH METHOD IS USED IN ALL SUBMITTALS TO THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE.
17. STRUCTURAL STEEL PLATES SHALL BE ASTM A572 GRADE 50 UNLESS NOTED OTHERWISE.

SPECIAL INSPECTION

1. SOILS
   - VERIFY THE SITE HAS BEEN PREPARED PROPERLY PRIOR TO PLACEMENT OF CONTROLLED FILL AND/OR EXCAVATIONS FOR FOUNDATIONS.
   - VERIFY THAT THE FOUNDATION EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.
   - VERIFY THAT MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.
2. DRILLED CONCRETE PIER FOUNDATIONS
   - INSPECT DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH PIER
   - VERIFY LOCATIONS OF PIERS.
3. CONCRETE
   - VERIFY USE OF REQUIRED DESIGN MIX, DETERMINE THE TEMPERATURE OF THE CONCRETE, AND (WHERE REQUIRED) PERFORM AIR CONTENT TEST.
   - TEST CONCRETE (COMPRESSION TEST).
   - INSPECT PLACEMENT OF FORM WORK, REINFORCING STEEL, EMBED ITEMS, AND CONCRETE. INSPECT CURING AND FORM REMOVAL.
   - SLUMP TEST SHALL BE PERFORMED PER SITE SPECIFIC DSA-103
4. STRUCTURAL STEEL
   - VERIFY THAT ALL MATERIALS ARE APPROPRIATELY MARKED AND THAT:
     a. MILL CERTIFICATES INDICATE MATERIAL PROPERTIES THAT COMPLY WITH REQUIREMENTS.
     b. MATERIAL SIZES, TYPES AND GRADES COMPLY WITH REQUIREMENTS.
   - TEST UNIDENTIFIED MATERIALS.
   - HIGH STRENGTH PRE-TENSIONED SLIP CRITICAL BOLTING.
   - VERIFY MEMBER LOCATIONS, BRACING AND ALL DETAILS CONSTRUCTED IN THE FIELD.
   - VERIFY STIFFENER LOCATIONS, CONNECTION TAB LOCATIONS, AND ALL CONSTRUCTION DETAILS FABRICATED IN THE SHOP.
   - VERIFY WELD FILLER MATERIAL IDENTIFICATION MARKINGS PER AWS DESIGNATION LISTED ON THE DSA APPROVED DOCUMENTS AND THE WPS.
   - VERIFY WELD FILLER MATERIAL MANUFACTURER'S CERTIFICATE OF COMPLIANCE.
   - VERIFY WPS, WELDER QUALIFICATIONS, AND EQUIPMENT.
   - INSPECT GROOVE, MULTI-PASS, AND FILLET WELDS > 5/16" (BOTH SHOP AND FIELD WELDS).
5. SHOP FABRICATION
   - VERIFY FABRICATOR'S FABRICATION AND QUALITY CONTROL PROCEDURES.
   - VERIFY ALL ASPECTS OF SHOP FABRICATION INCLUDING MEMBER LOCATIONS, DIMENSIONAL LAYOUT OF ALL PARTS , BOLTING, ETC.
6. REFER TO DSA APPROVED FORM 103 FOR ADDITIONAL REQUIREMENTS.

GENERAL NOTES

1. DESIGN PER 2022 C.B.C. AND ITS PRESCRIBED LOADING AND MATERIAL SPECIFICATIONS:
   - ASCE 7-16
   - 15TH EDITION AISC STEEL CONSTRUCTION MANUAL
   - 2016 AISI COLD FORMED STEEL STANDARD
   - ACI 318-19
   - AISC 341-16
2. THE PC STRUCTURES ARE NOT DESIGNED TO BE, NOR SHALL THEY BE, ENCLOSED.
3. ALL DIMENSIONS, CONDITIONS, AND ELEVATIONS ARE TO BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCING WORK OR FABRICATION. IF ANY DISCREPANCIES ARE FOUND OR IF ANY CONDITION EXISTS NOT AS SHOWN ON THE DRAWINGS THE DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE SHALL BE NOTIFIED IMMEDIATELY.
4. OWNER TO SIGN AUTHORIZATION TO PROCEED PRIOR TO DRILLING.
   SEE EXAMPLE BELOW:

M BAR C CONSTRUCTION

Authorization to Proceed

Project Name: ____________ Foreman: ____________
Site Name: ____________ Contractor: ____________

As an authorized representative of Contractor listed above, I, ____________ agree to the following statements below:

_____(initial) **LAYOUT:** The onsite layout for installation of structural steel for carports and canopies has been inspected and is approved as is.

_____(initial) **ARRAY ORIENTATION/CONCRETE POUR:** The tilt and direction of the canopies have been verified and are approved as is.

ARRAYS:

It is understood that additional costs will apply due to the following delays: re-layout not due to M Bar C, underground site conflicts (unmarked utility lines, including but not limited to water, sewer, fire, irrigation, electrical; encountered underground water; change in soils condition, including but not limited to hard drilling, caving soils, obstructions)

BY: ____________ (signature) DATE: ____________

4 STEL ENGINEERING
26030 ACERO,
MISSION VIEJO, CA 92691
949.305.1150 | FAX 949.305.1420

M BAR C CONSTRUCTION INC.

ENGINEER'S APPROVAL
REGISTERED PROFESSIONAL ENGINEER DUSTIN M. ROBERTSON S 5885

BID INFORMATION
THE STRUCTURES AND DESIGNS IN THIS PC ARE PROPRIETARY TO M BAR C CONSTRUCTION, INC. AND 4 S.T.E.L. ENGINEERING, INC. ALL SITES USING THIS PC: M BAR C CONSTRUCTION, INC. SHALL BE THE STEEL CONTRACTOR & 4 S.T.E.L. ENGINEERING, INC. SHALL BE THE SEOR. SEE THE STANDARD NOTES FOR PC USE ON S-1 FOR ADDITIONAL REQUIREMENTS.

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122015 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 11/09/2023

SITE SPECIFIC INFORMATION

REVISIONS

MARK	DATE	DESCRIPTION

4 STEL JOB #	MC05-02-1
DATE	11-01-23
DRAWN BY	NML
CHECKED	CDL

GENERAL NOTES

S-3

LIONAKIS
2025 Nineteenth Street
Sacramento CA 95818
P 916.558.1900
www.lionakis.com

CONSULTANT

SEAL
LICENSED ARCHITECT BRIAN BELL C28712 REN. 01-31-25 STATE OF CALIFORNIA

PROJECT
MCCLATCHY HIGH SCHOOL ATHLETIC FIELD RENOVATION
3066 FREEPORT BLVD,
SACRAMENTO, CA 95818

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
425 1ST AVE, SACRAMENTO, CA 95818.

ISSUED

MARK	DATE	DESCRIPTION
	12/7/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

LIONAKIS PROJECT NO:	023040
DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	
COPYRIGHT:	LIONAKIS 2017

TITLE
GENERAL NOTES

SHEET
S-3

IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY

12/6/2023 8:05:23 AM

DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2022 CBC

Application Number: 04-122015
DSA File Number:
School Name: M Bar C Inc Multipurpose Canopy 22 PC
Increment Number:
School District: N/A
Date Created: 2023-11-08 15:50:31

2022 CBC

IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2022 CBC).

****NOTE**: Undefined section and table references found in this document are from the CBC, or California Building Code.

Geotechnical Reports: Project has a geotechnical report, or CDs indicate soils special inspection is required by GE

	S1. GENERAL:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Verify that: • Site has been prepared properly prior to placement of controlled fill and/or excavations for foundations. • Foundation excavations are extended to proper depth and have reached proper material. • Materials below footings are adequate to achieve the design bearing capacity.	**Periodic**	**GE***	* By geotechnical engineer or his or her qualified representative. (See Appendix (end of this form) form for exemptions.)

	C1. CAST-IN-PLACE CONCRETE			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Verify use of required design mix.	**Periodic**	**SI**	**Table 1705A.3 Item 5, 1910A.1.**
☑	**b.** Identifiy, sample, and test reinforcing steel.	**Test**	**LOR**	**1910A.2**; ACI 318-19 Ch.20 and Section 26.6.1.2; DSA IR 17-10. (See Appendix (end of this form) for exemptions.)
☑	**c.** During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	**Test**	**LOR**	**Table 1705A.3 Item 6**; ACI 318-19 Sections 26.5 & 26.12.
☑	**d.** Test concrete (f'_c).	**Test**	**LOR**	**1905A.1.17**; ACI 318-19 Section 26.12.
☑	**e.** Batch plant inspection: **Periodic**	**See Notes**	**SI**	Default of **'Continuous'** per **1705A.3.3**. If approved by DSA, batch plant inspection may be reduced to **'Periodic'** subject to requirements in Section **1705A.3.3.1**, or eliminated per **1705A.3.3.2.** See IR 17-13. (See Appendix (end of this form) for exemptions.)

	S/A1. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Verify identification of all materials and: • Mill certificates indicate material properties that comply with requirements. • Material sizes, types and grades comply with requirements.	**Periodic**	*	**Table 1705A.2.1 Item 3a–3c.** 2202A.1; AISI S100-20 Section A3.1 & A3.2, AISI S240-20 Section A3 & A5, AISI S220-20 Sections A4 & A6. * By special inspector or qualified technician when performed off-site.
☑	**b.** Test unidentified materials	**Test**	**LOR**	**2202A.1.**
☑	**c.** Examine seam welds of HSS shapes	**Periodic**	**SI**	DSA IR 17-3.
☑	**d.** Verify and document steel fabrication per DSA-approved construction documents.	**Periodic**	**SI**	Not applicable to cold-formed steel light-frame construction, except for trusses (**1705A.2.4**).

	S/A2. HIGH-STRENGTH BOLTS:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Verify identification markings and manufacturer's certificates of compliance conform to ASTM standards specified in the DSA-approved documents.	**Periodic**	**SI**	**Table 1705A.2.1 Items 1a & 1b, 2202A.1**; AISC 360-16 Section A3.3, J3.1, and N3.2; RCSC 2014 Section 1.5 & 2.1; DSA IR 17-8 & DSA IR 17-9.
☑	**b.** Test high-strength bolts, nuts and washers.	**Test**	**LOR**	**Table 1705A.2.1 Item 1c, 2213A.1**; RCSC 2014 Section 7.2; DSA IR 17-8.
☑	**d.** Pretensioned and slip-critical connections.	*	**SI**	**Table 1705A.2.1 Items 2b & 2c, 1705A.2.6, 2204A.2**; AISC 360-16 J3.1, J3.2, M2.5 & N5.6; RCSC 2014 Sections 9.2 & 9.3; DSA IR 17-9. *"Continuous" or "Periodic" depends on the tightening method used.

	S/A3. WELDING:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Verify weld filler material identification markings per AWS designation listed on the DSA-approved documents and the WPS.	**Periodic**	**SI**	**1705A.2.5, Table 1705A.2.1 Items 4 & 5**; AWS D1.1 and AWS D1.8 for structural steel; AWS D1.2 for Aluminum; AWS D1.3 for cold-formed steel; AWS D1.4 for reinforcing steel; DSA IR 17-3.
☑	**b.** Verify weld filler material manufacturer's certificate of compliance.	**Periodic**	**SI**	DSA IR 17-3.
☑	**c.** Verify WPS, welder qualifications and equipment.	**Periodic**	**SI**	DSA IR 17-3.

	S/A4. SHOP WELDING (IN ADDITION TO SECTION S/A3):			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	**Continuous**	**SI**	**Table 1705A.2.1 Items 5a.1–4**; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.
☑	**b.** Inspect single-pass fillet welds ≤ 5/16", floor and roof deck welds.	**Periodic**	**SI**	**1705A.2.2, Table 1705A.2.1 Items 5a.5 & 5a.6**; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.

	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
	S/A5. FIELD WELDING (IN ADDITION TO SECTION S/A3):			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Inspect groove welds, multi-pass fillet welds, single pass fillet welds > 5/16", plug and slot welds.	**Continuous**	**SI**	**Table 1705A.2.1 Items 5a.1–4**; AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3.
☑	**b.** Inspect single-pass fillet welds ≤ 5/16".	**Periodic**	**SI**	**Table 1705A.2.1 Item 5a.5**; AISC 360-16 (AISC 341-16 as applicable); DSA IR 17-3.

	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
	S/A6. NONDESTRUCTIVE TESTING:			
	Test or Special Inspection	**Type**	**Performed By**	**Code References and Notes**
☑	**a.** Ultrasonic	**Test**	**LOR**	**1705A.2.1, 1705A.2.5**; AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.
☑	**b.** Magnetic Particle	**Test**	**LOR**	**1705A.2.1, 1705A.2.5**; AISC 341-16 J6.2, AISC 360-16 N5.5; AWS D1.1, AWS D1.8; DSA IR 17-2.

1. Soils Testing and Inspection: Geotechnical Verified Report Form DSA 293
2. Structural Testing and Inspection: Laboratory Verified Report Form DSA 291
3. Concrete Batch Plant Inspection: Laboratory Verified Report Form DSA 291
4. Shop Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292
5. Field Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292
6. High-Strength Bolt Installation Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292

1 / -
SAMPLE DSA 103 - STRUCTURES WITH PIER OR SPREAD FOUNDATIONS

THE EXAMPLE DSA-103 FORMS SHOWN ON THIS SHEET ARE GUIDES ONLY FOR COMPLETING PROJECT SPECIFIC DSA-103 FORMS. FORM DSA-103 IS REQUIRED TO BE COMPLETED FOR EACH DSA APPLICATION THAT INCORPORATES THE PC AND ALL EXAMPLE DSA-103 FORMS ARE TO BE VOIDED ON THIS SHEET.

4 STEL ENGINEERING
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MISSION VIEJO, CA 92691
949.305.1150 | FAX 949.305.1420

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1770 LA COSTA MEADOWS DRIVE
SAN MARCOS, CA 92078
ERIK KRIVOKOPICH
PHONE: (760) 744-4131
FAX: (760) 744-4449
ERIK@MBARCONLINE.COM
LIC # 869960
B AND C51
(775) 787-8845

ENGINEER'S APPROVAL

REGISTERED PROFESSIONAL ENGINEER
DUSTIN K. ROSEPINK
S 5885
STRUCTURAL
STATE OF CALIFORNIA

BID INFORMATION

THE STRUCTURES AND DESIGNS IN THIS PC ARE PROPRIETARY TO M BAR C CONSTRUCTION, INC. AND 4 S.T.E.L. ENGINEERING, INC. ALL SITES USING THIS PC: M BAR C CONSTRUCTION, INC. SHALL BE THE STEEL CONTRACTOR & 4 S.T.E.L. ENGINEERING, INC. SHALL BE THE SEOR. SEE THE STANDARD NOTES FOR PC USE ON S-1 FOR ADDITIONAL REQUIREMENTS.

PRE-CHECK (PC) DOCUMENT

CODE: 2022 CBC

A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122015 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 11/09/2023

SITE SPECIFIC INFORMATION

REVISIONS

MARK	DATE	DESCRIPTION

4 STEL JOB # MC05-02-1

DATE 11-01-23

DRAWN BY NML

CHECKED CDL

EXAMPLE DSA-103 FORMS

S-4

LIONAKIS
2025 Nineteenth Street
Sacramento CA 95818
P 916.558.1900
www.lionakis.com

CONSULTANT

SEAL

LICENSED ARCHITECT
BRIAN BELL
C28712
REN. 01-31-25
STATE OF CALIFORNIA

PROJECT
MCCLATCHY HIGH SCHOOL ATHLETIC FIELD RENOVATION

3066 FREEPORT BLVD,
SACRAMENTO, CA 95818

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

425 1ST AVE, SACRAMENTO, CA 95818.

ISSUED

MARK	DATE	DESCRIPTION
	12/7/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

LIONAKIS PROJECT NO:	023040
DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	
COPYRIGHT:	LIONAKIS 2017

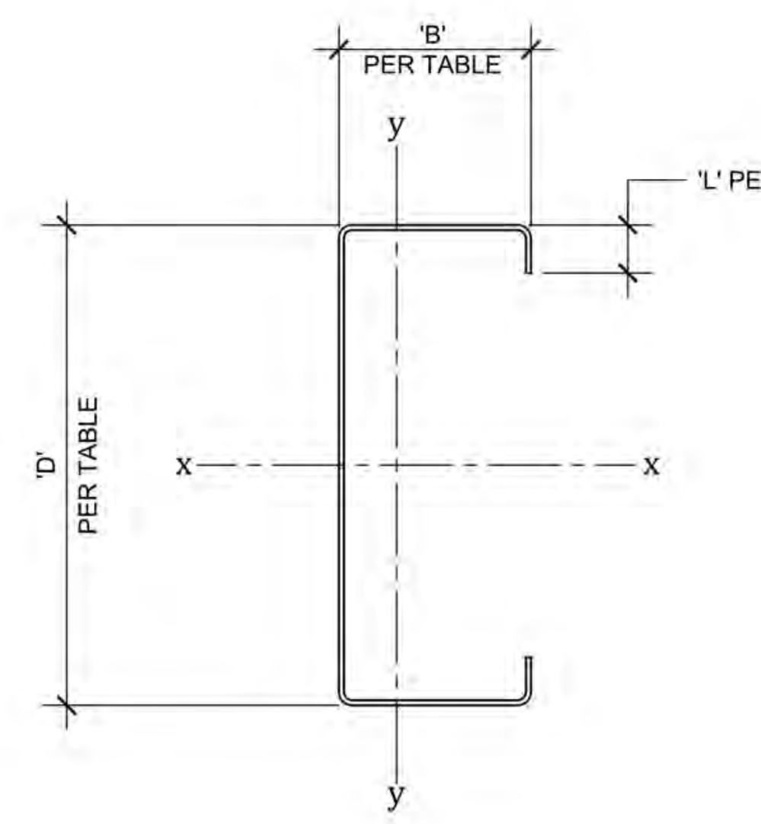
TITLE
EXAMPLE DSA-103 FORMS

SHEET
S-4

SECTION NAME	GA	D (in)	B (in)	L (in)	WT (lb/ft)	A (in^2)	AXIS X-X			AXIS Y-Y		
							I_x (in^4)	S_x (in^3)	r_x (in)	I_y (in^4)	$S_y^{(min)}$ (in^3)	r_y (in)
C 10 x 4 x 0.071	14	10	4	1.0	4.72	1.388	21.96	3.424	3.977	3.009	1.086	1.472

NOTES

1. COLD FORMED STEEL (CFS) PURLINS AND BEAMS MATERIAL SHALL CONFORM TO ASTM A653 SS GRADE 55 (F_Y = 55 KSI, F_U = 70 KSI) OR ASTM A1011 SS GRADE 55 (F_Y = 55 KSI,
2. COLD FORMED STEEL (CFS) DESIGNED PER 2016 AISI SPECIFICATIONS AND AISI COLD-FORMED STEEL DESIGN MANUAL.
3. CFS SECTION PROPERTIES LISTED ABOVE ARE MINIMUM SECTION PROPERTIES REQUIRED PER THE LATEST STEEL FRAMING INDUSTRY ASSOCIATION (SFIA) PRODUCT TECHNICAL GUIDE. ACTUAL MANUFACTURER'S PROPERTIES MUST MEET OR EXCEED SFIA PROPERTIES.

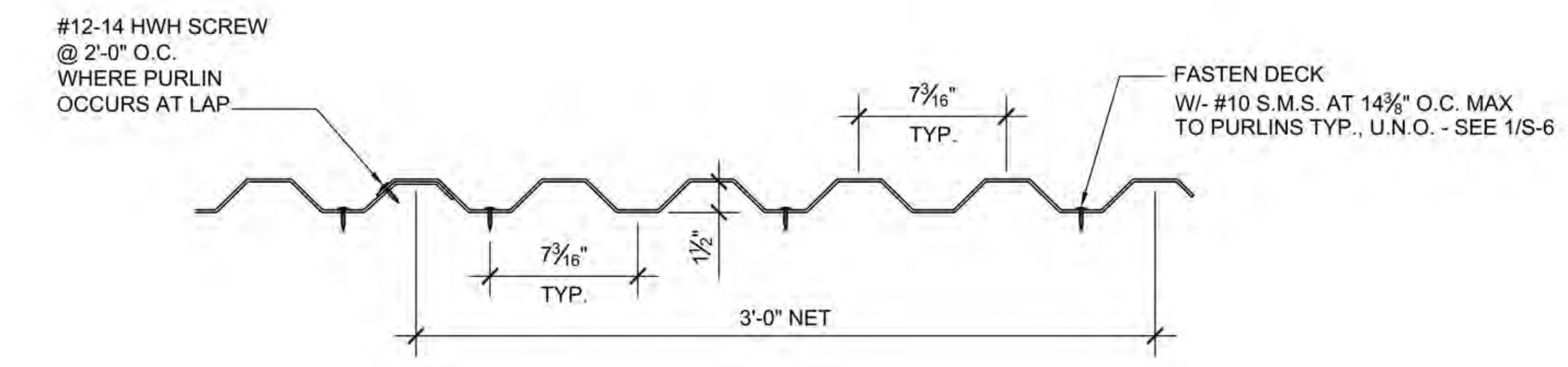


4 PURLINS
-
N.T.S.

ROOF DECK SPECIFICATIONS						
SECTION PROPERTIES			TOP IN COMPRESSION		BOTTOM IN COMPRESSION	
GA	F_y (ksi)	WEIGHT (psf)	I_x+ (in.^{4}/ft.)	S_e+ (in.^{3}/ft.)	I_x- (in.^{4}/ft.)	S_e- (in.^{3}/ft.)
26	80	0.93	0.0613	0.0676	0.0577	0.0575

NOTES:

1. MATERIAL AND SECTION PROPERTIES LISTED ABOVE ARE MINIMUM REQUIRED VALUES FOR METAL DECK BASED ON MCELROY MEGARIB 26 GA.
2. METAL ROOF DECK SHALL BE CLASS A PER CBC CHAPTERS 7A AND 15.
3. ACTUAL MANUFACTURER'S PROPERTIES MUST MEET OR EXCEED MCELROY STANDARD PROPERTIES.

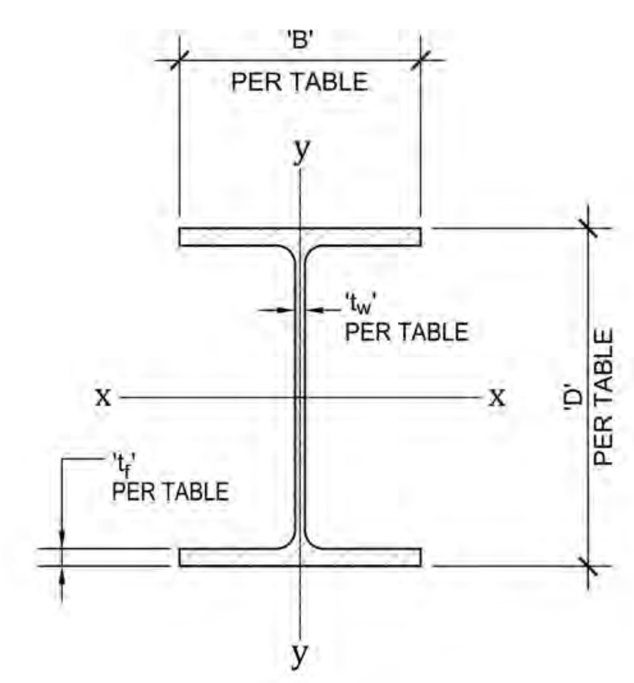


1 DECK DETAIL
-
N.T.S.

	SECTION NAME	D (in)	B (in)	t_w (in)	t_f (in)	WT (lb/ft)	A (in^2)	AXIS X-X			AXIS Y-Y		
								I_x (in^4)	S_x (in^3)	r_x (in)	I_y (in^4)	S_y (in^3)	r_y (in)
■	W12 x 40	11.9	8.01	0.295	0.515	40	11.70	307	51.5	5.13	44.1	11.0	1.94
☐	W12 x 72	12.3	12	0.43	0.67	72	21.1	597	97.4	5.31	195	32.4	3.05

NOTES

1. WF BEAMS SHALL CONFORM TO ASTM A992, F_y = 50 ksi.

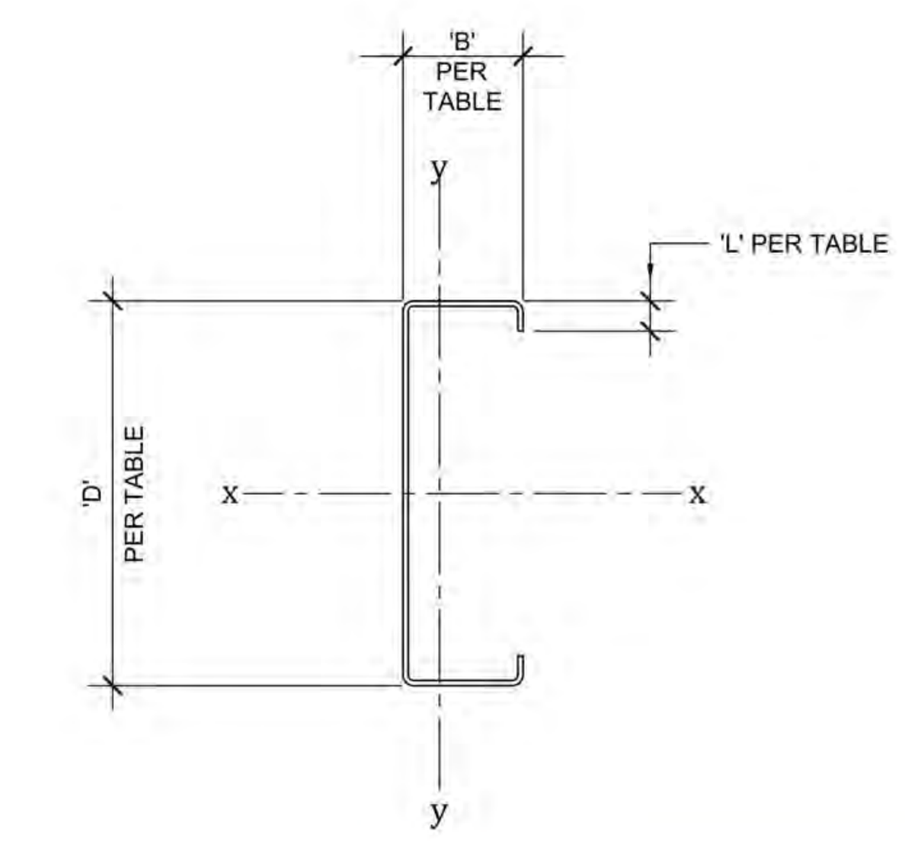


5 BEAMS
-
N.T.S.

SECTION NAME	GA	D (in)	B (in)	L (in)	WT (lb/ft)	A (in^2)	AXIS X-X			AXIS Y-Y		
							I_X (in^4)	S_{XE} (in^3)	r_X (in)	I_y (in^4)	S_y (in^3)	r_y (in)
CS7 x 2.5 x 0.057	16	7	2.5	0.625	2.471	0.726	5.462	1.288	2.743	0.590	0.334	0.902

NOTES

1. COLD FORMED STEEL (CFS) PURLINS AND BEAMS MATERIAL SHALL CONFORM TO ASTM A653 SS GRADE 55 (F_y = 55 KSI, F_u = 70 KSI) OR ASTM A1011 SS GRADE 55 (F_y = 55 KSI, F_u = 70 KSI).
2. COLD FORMED STEEL (CFS) DESIGNED PER 2016 AISI SPECIFICATIONS AND COLD-FORMED STEEL DESIGN MANUAL.
3. CFS SECTION PROPERTIES LISTED ABOVE ARE MINIMUM SECTION PROPERTIES REQUIRED PER THE LATEST STEEL FRAMING INDUSTRY ASSOCIATION (SFIA) PRODUCT TECHNICAL GUIDE. ACTUAL MANUFACTURER'S PROPERTIES MUST MEET OR EXCEED SFIA PROPERTIES.

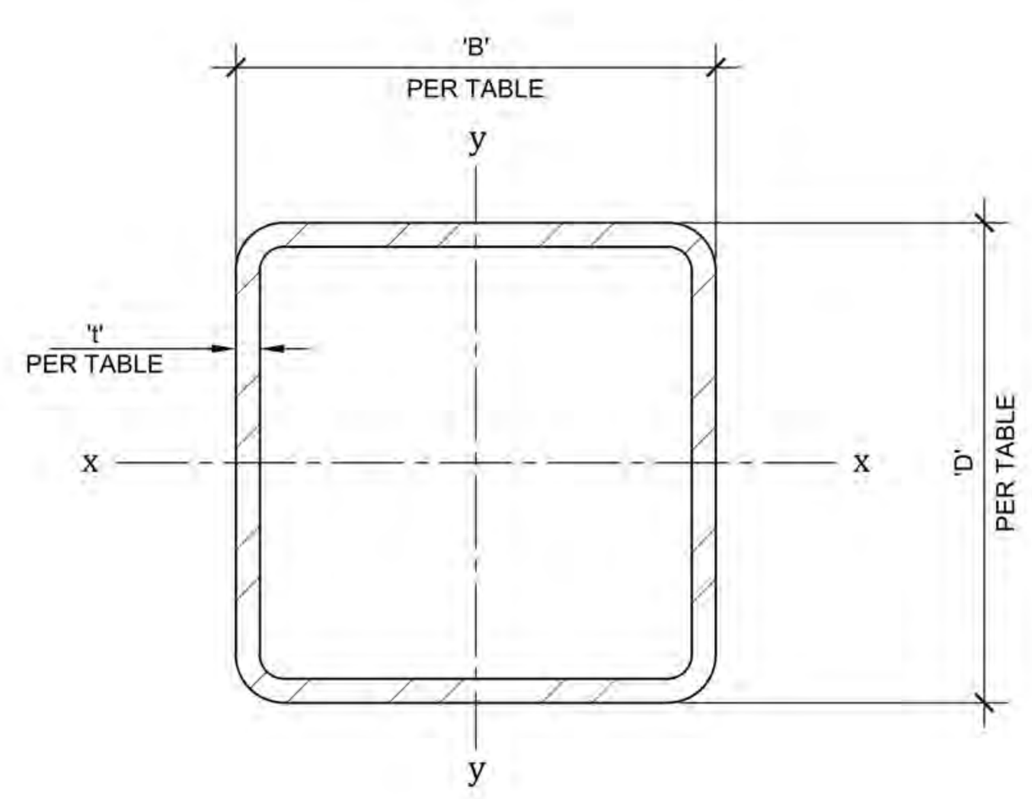


2 PURLIN BLOCKING
-
N.T.S.

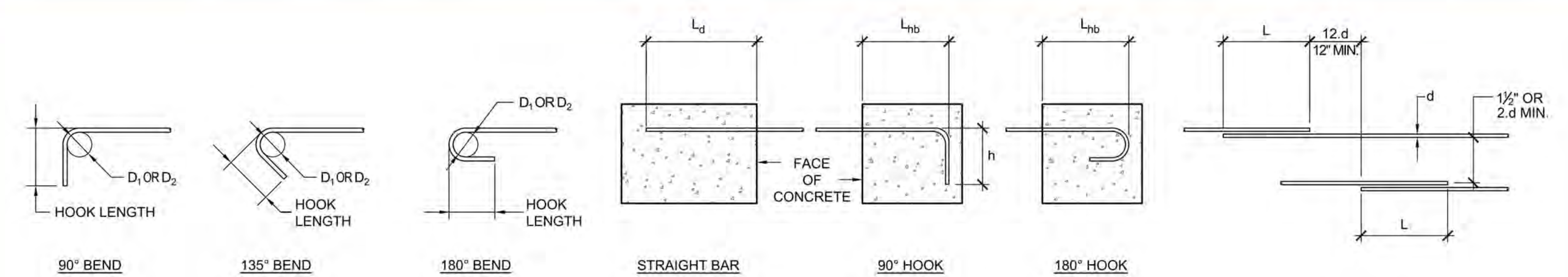
	SECTION NAME	D (in)	B (in)	t (in)	WT (lb/ft)	A (in^2)	AXIS X-X			AXIS Y-Y		
							I_x (in^4)	S_x (in^3)	r_x (in)	I_y (in^4)	S_y (in^3)	r_y (in)
■	HSS 10 x 10 x ¼	10	10	0.25	32.63	9.59	151	30.2	3.97	151	30.2	3.97
☐	HSS 10 x 10 x 5/16	10	10	0.3125	40.35	11.90	184	36.8	3.93	184	36.8	3.93
☐	HSS 12 x 12 x ⅜	12	12	0.375	58.10	17.10	380	63.3	4.71	380	63.3	4.71
☐	HSS 12 x 12 x ½	12	12	0.500	76.07	22.40	486	81.0	4.66	486	81.0	4.66

NOTES

1. HSS COLUMNS SHALL CONFORM TO ASTM A1085, F_y = 50 ksi.



6 COLUMNS
-
N.T.S.



FINISHED BEND DIAMETERS		
BAR SIZE	D_1	D_2
#3	1½"	2¼"
#4	2"	3"
#5	2½"	3¾"
#6, #7, #8	6.d	6.d

"D_1" - FINISHED BEND DIA. FOR STIRRUP & TIE HOOKS.

"D_2" - BEND DIA. FOR STD HOOKS.

"d" - BAR DIAMETER

STANDARD HOOK LENGTHS				
BAR SIZE	MAIN REINFT.		STIRRUP & TIE HOOKS	
	90°	180°	90°	135°
#3	6"	4"	3½"	4¼"
#4	8"	4½"	4½"	4½"
#5	10"	5"	6"	6"
#6	12"	6"	12"	7½"
#7	14"	7"	14"	9"
#8	16"	8"	16"	10"

A STANDARD HOOKS

REINFORCEMENT DEVELOPMENT LENGTHS				
CONCRETE STRENGTH	F'c = 3,000 PSI			
NOMINAL BAR SIZE	h	L_d		L_{hb}
		TOP BARS	OTHER BARS	
#3	6"	1'-10"	1'-5"	9"
#4	8"	2'-5"	1'-10"	11"
#5	10"	3'-0"	2'-4"	1'-2"
#6	1'-0"	3'-7"	2'-9"	1'-5"
#7	1'-2"	5'-3"	4'-0"	1'-7"
#8	1'-4"	6'-0"	4'-7"	1'-10"

NOTES:

1. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW.

B DEVELOPMENT LENGTHS

REINFORCEMENT LAP SPLICE LENGTH 'L'		
CONCRETE STRENGTH	F'c=3,000 PSI	
NOMINAL BAR SIZE	TOP BARS	OTHER BARS
#3	2'-4"	1'-10"
#4	3'-2"	2'-5"
#5	3'-11"	3'-0"
#6	4'-8"	3'-7"
#7	6'-9"	5'-3"
#8	7'-9"	6'-0"

NOTES:

1. LAP SPLICE SHALL BE INCREASED 50% WHERE CLEAR SPACE BETWEEN BARS IS LESS THAN 2 BAR DIAMETERS AND/OR THE CLEAR COVER IS LESS THAN ONE BAR DIAMETER.

C OFFSETS AND LAP SPLICES

3 TYPICAL REINFORCEMENT BAR BENDS AND LAPS
-
N.T.S.

4 STEL ENGINEERING
26030 ACERO,
MISSION VIEJO, CA 92691
949.305.1150 | FAX 949.305.1420

MBAR C CONSTRUCTION INC.
1770 LA COSTA MEADOWS DRIVE SAN MARCOS, CA 92078
ERIK KRIVOKOPICH
PHONE: (760) 744-4131
FAX: (760) 744-4449
ERIK@MBARCONLINE.COM
LIC # 869960
B AND C51
(775) 787-8845

ENGINEER'S APPROVAL

REGISTERED PROFESSIONAL ENGINEER
DUSTIN K. ROSEPINK
S 5885
STRUCTURAL
STATE OF CALIFORNIA

BID INFORMATION

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DATE: 11/09/2023

SITE SPECIFIC INFORMATION

REVISIONS		
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4 STEL JOB #	MC05-02-1
DATE	11-01-23
DRAWN BY	NML
CHECKED	CDL

SECTION PROPERTIES & REBAR DETAILS

S-5

NOTE: IF DWG. IS NOT 24 x 36, IT IS NOT FULL SIZE

LIONAKIS
2025 Nineteenth Street
Sacramento CA 95818
P 916.558.1900
www.lionakis.com

CONSULTANT

SEAL

LICENSED ARCHITECT
BRIAN BELL
C28712
REN. 01-31-25
STATE OF CALIFORNIA

PROJECT

MCCLATCHY HIGH SCHOOL ATHLETIC FIELD RENOVATION

3066 FREEPORT BLVD,
SACRAMENTO, CA 95818

CLIENT

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

425 1ST AVE, SACRAMENTO, CA 95818.

ISSUED		
MARK	DATE	DESCRIPTION
	12/7/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

LIONAKIS PROJECT NO:	023040
DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	
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SECTION PROPERTIES & REBAR DETAILS

SHEET

S-5

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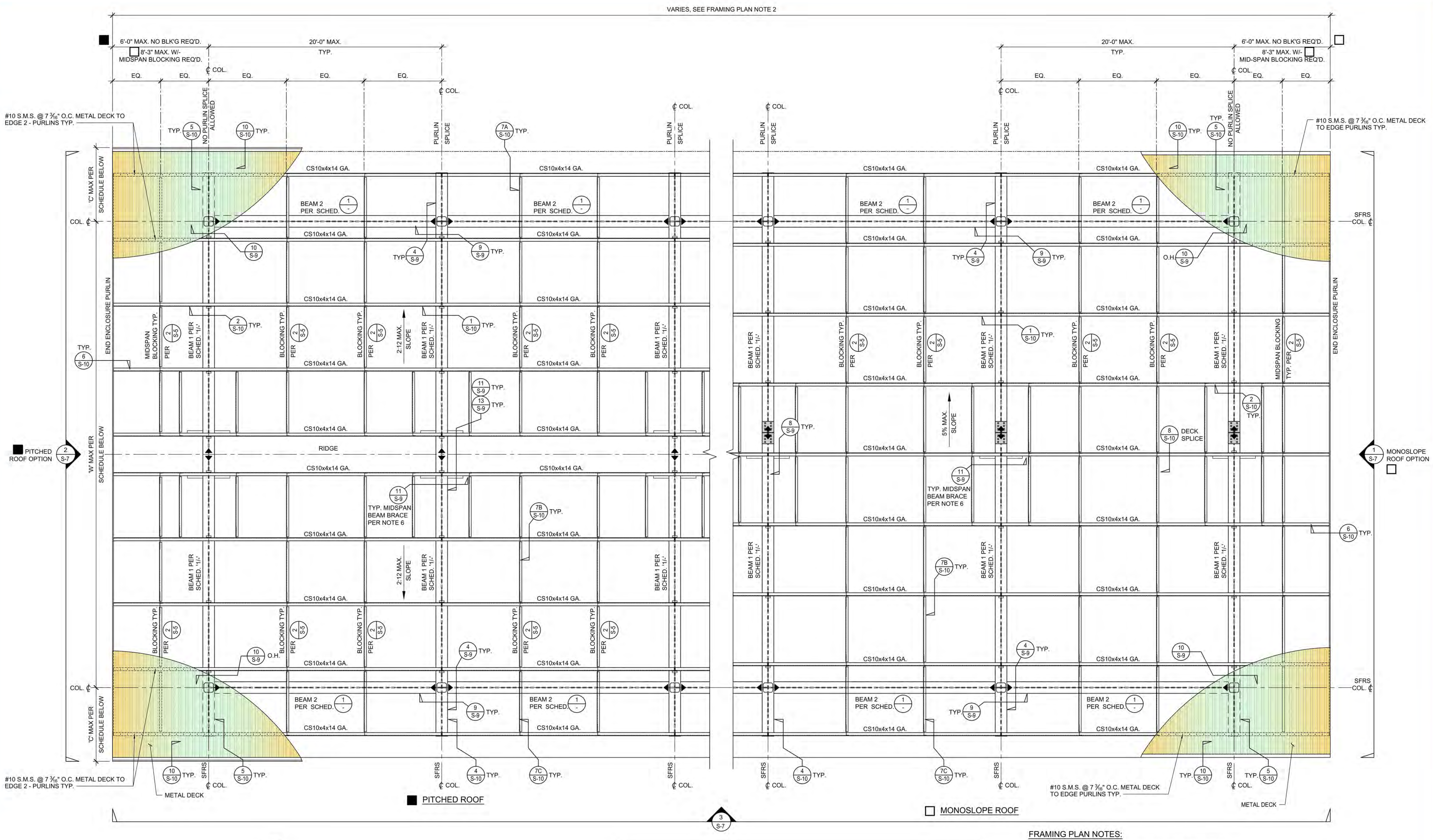

1 FRAMING PLAN

1/4"=1'-0"

① BEAM & COLUMN SCHEDULE							
	STRUCTURE OPTION ID#	'W' MAX.	'C' MAX.	MAX. COLUMN HEIGHT	BEAM 1 (6)	BEAM 2	COLUMN
■	M1	40'-0"	6'-0"	21'-0"	W12 x 40	W12 x 40	HSS 10 x 10 x 1/4
□	M2	40'-0"	6'-0"	23'-0"	W12 x 40	W12 x 40	HSS 10 x 10 x 5/16
□	M3	66'-0"	10'-0"	21'-0"	W12 x 72	W12 x 72	HSS 12 x 12 x 3/8
□	M4	66'-0"	10'-0"	23'-0"	W12 x 72	W12 x 72	HSS 12 x 12 x 1/2

FRAMING PLAN NOTES:

1. REFER TO SHEET 'S-2' FOR CANOPY CONSTRUCTION OPTIONS.
2. MAXIMUM CANOPY LENGTH SHALL BE SITE SPECIFIC DETERMINED TO CONFORM WITH CONSTRUCTION TYPE NOTES ON SHEET 'S-2'.
3. REFER TO SHEET S-5 FOR COLUMN, BEAM, PURLIN, AND BLOCKING SECTION PROPERTIES.
4. METAL ROOF DECK SHALL BE CLASS A PER CBC CHAPTERS 7A AND 15.
5. REFER TO DETAIL '12/S-10' FOR ALLOWABLE PURLIN PENETRATIONS.
6. BEAM MIDSPAN BRACE REQUIRED PER DETAIL '8/S-9', '11/S-9' AND '13/S-9'.
7. DECK MUST SPAN CONTINUOUSLY OVER FOUR OR MORE PURLINS WITH OR WITHOUT A CANTILEVER.
8. FASTEN DECK w/ #10 S.M.S. @ 14 3/8" O.C. TO PURLINS TYP. U.N.O.
9. PURLIN ATTACHMENT PER DETAILS 1/S-10, 2/S-10.

4 STEEL ENGINEERING
26030 ACERO,
MISSION VIEJO, CA 92691
949.305.1150 | FAX 949.305.1420

M BAR C CONSTRUCTION INC.

ENGINEER'S APPROVAL

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FRAMING PLAN

S-6

LIONAKIS
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P 916.558.1900
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CONSULTANT

SEAL

LICENSED ARCHITECT BRIAN BELL C28712 REN 01-31-25 STATE OF CALIFORNIA

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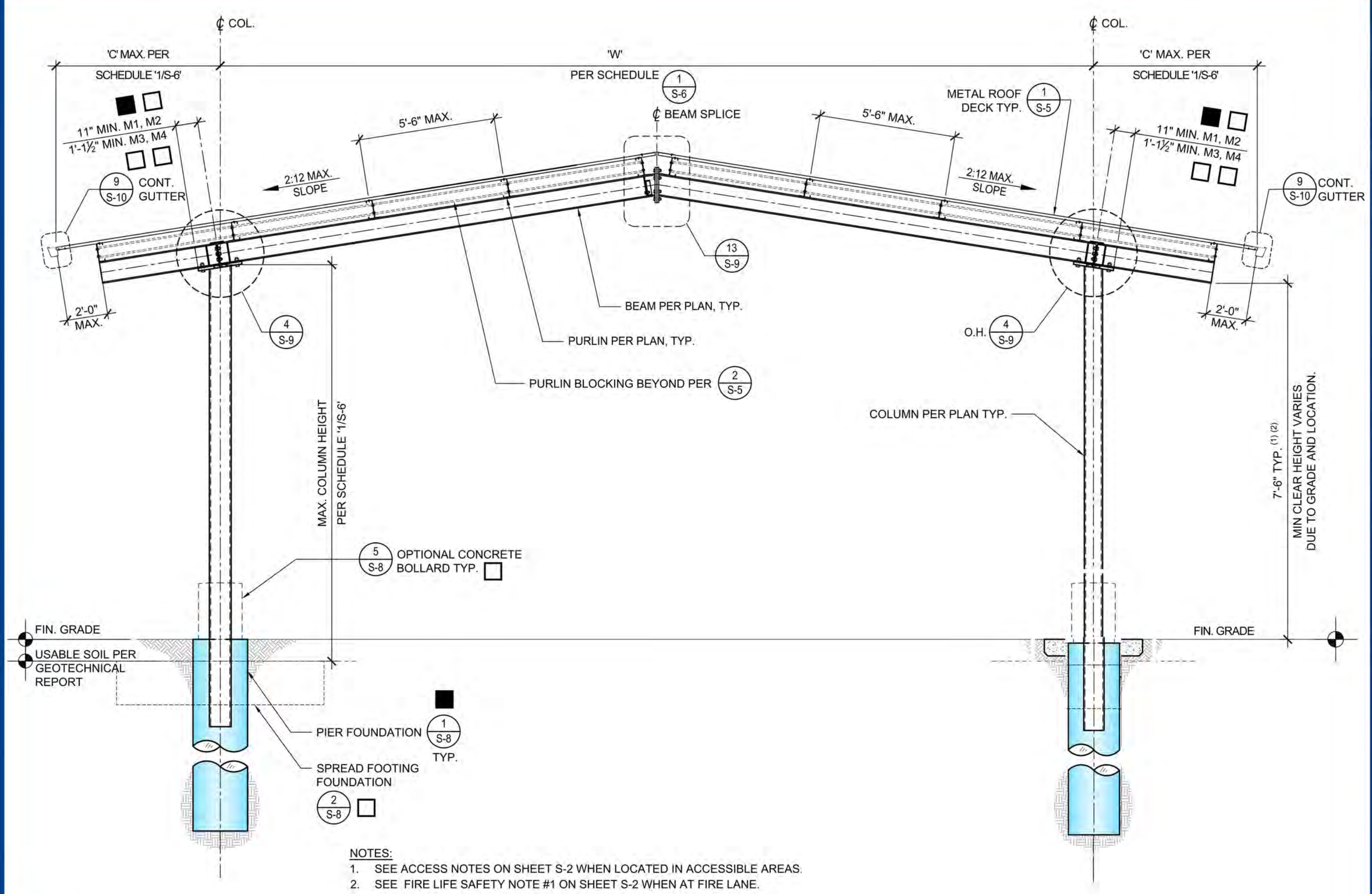
FRAMING PLAN

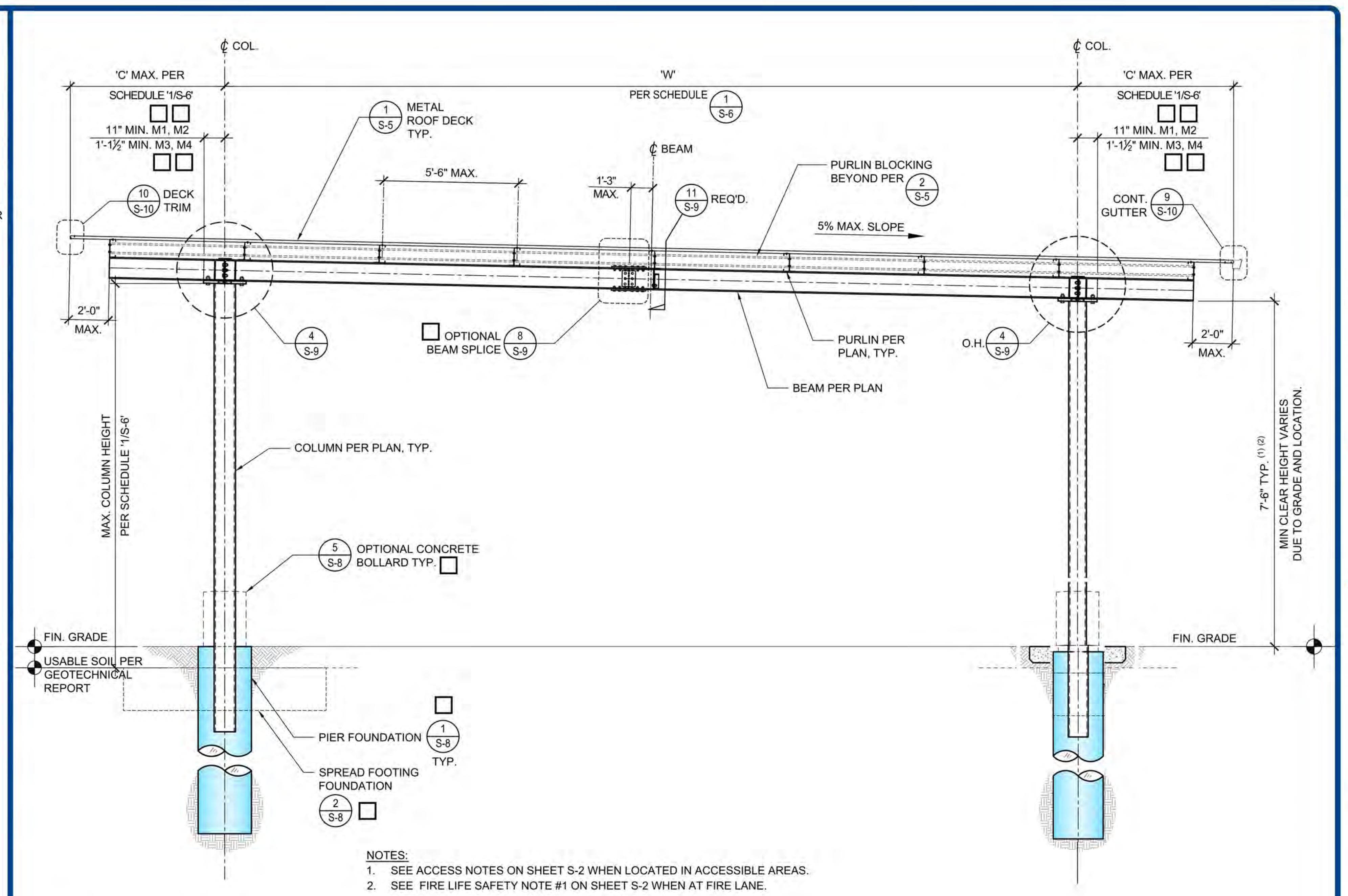
SHEET

S-6



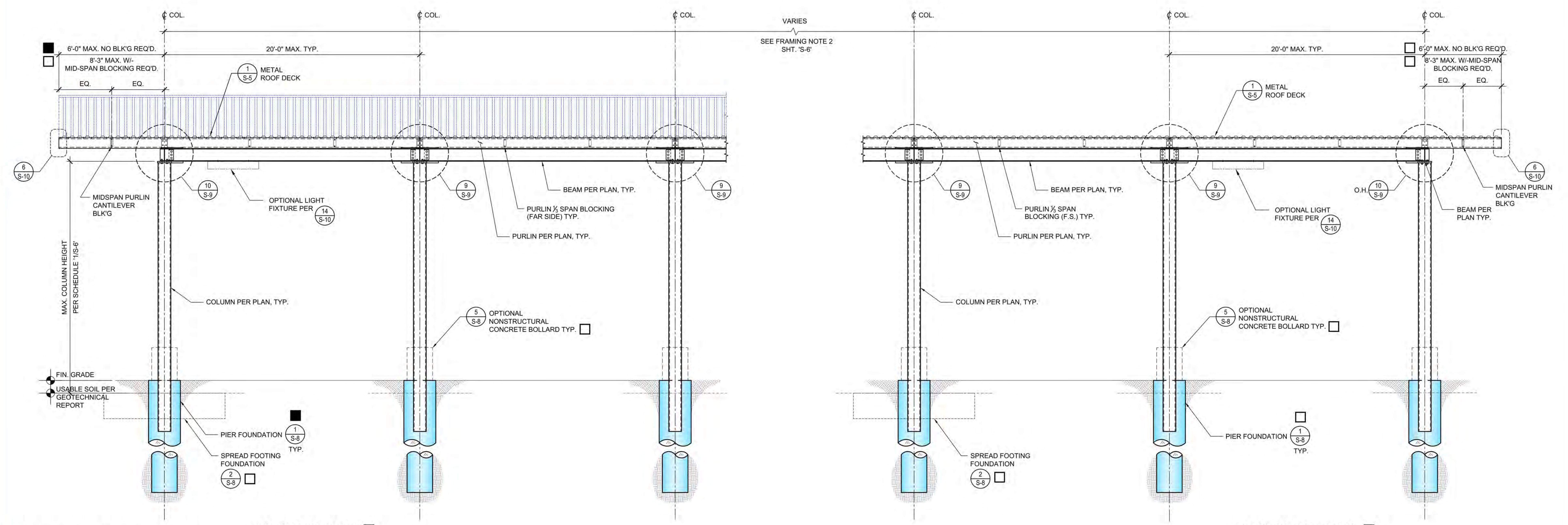
2 - END ELEVATION - PITCHED ROOF OPTION ■

1/4"=1'-0"



1 - END ELEVATION - MONOSLOPE ROOF OPTION □

1/4"=1'-0"



3 - TYPICAL SIDE ELEVATION

1/4"=1'-0"

PITCHED ROOF OPTION ■

MONOSLOPE ROOF OPTION □

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FRAMING ELEVATIONS

S-7

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FRAMING ELEVATIONS

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S-7

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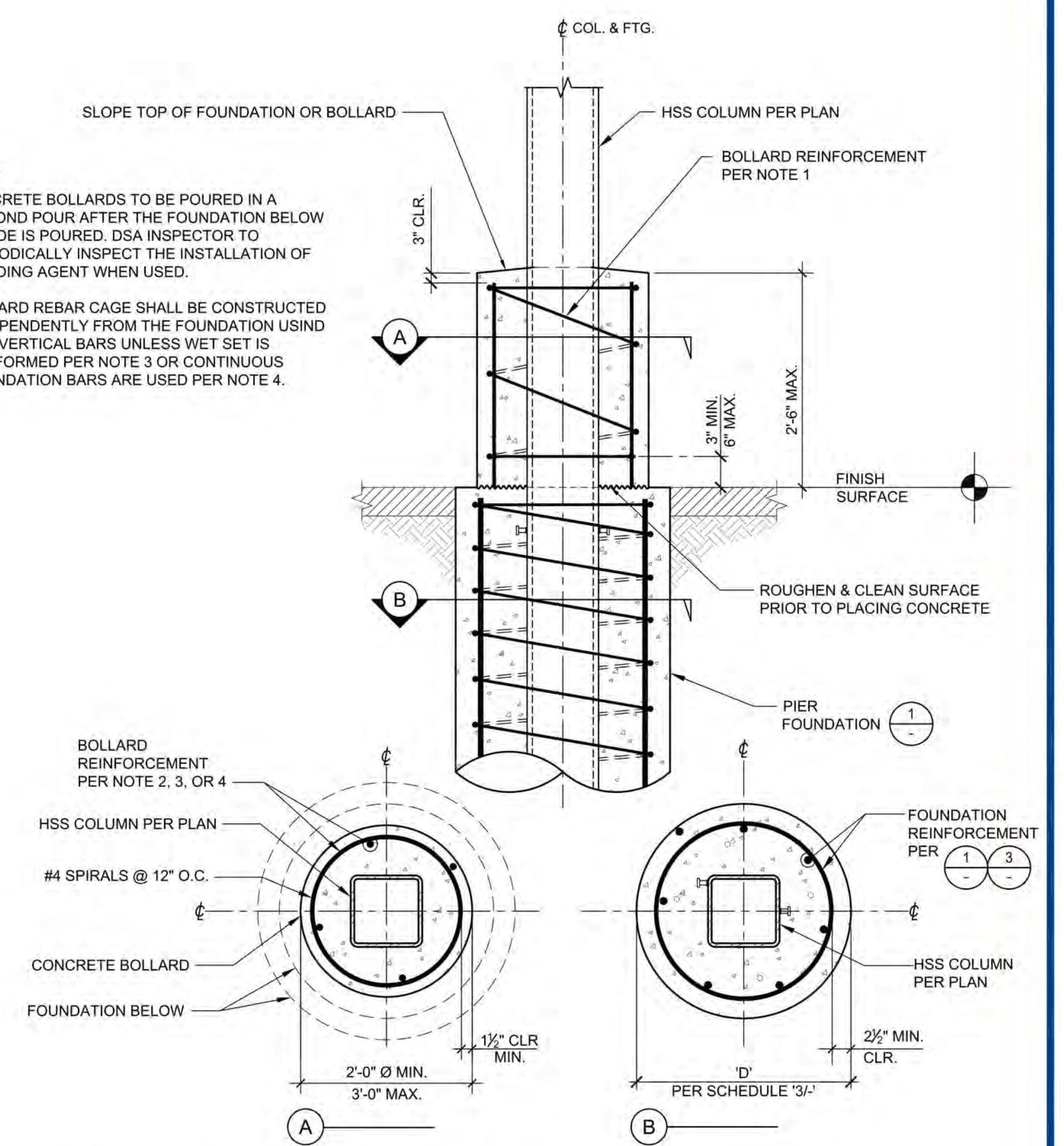
NOTES:

1. CONCRETE BOLLARDS TO BE POURED IN A SECOND POUR AFTER THE FOUNDATION BELOW GRADE IS POURED. DSA INSPECTOR TO PERIODICALLY INSPECT THE INSTALLATION OF BONDING AGENT WHEN USED.
2. BOLLARD REBAR CAGE SHALL BE CONSTRUCTED INDEPENDENTLY FROM THE FOUNDATION USIND 4-#4 VERTICAL BARS UNLESS WET SET IS PERFORMED PER NOTE 3 OR CONTINUOUS FOUNDATION BARS ARE USED PER NOTE 4.



5 OPTIONAL NONSTRUCTURAL CONCRETE BOLLARD ☐

3/4"=1'-0"

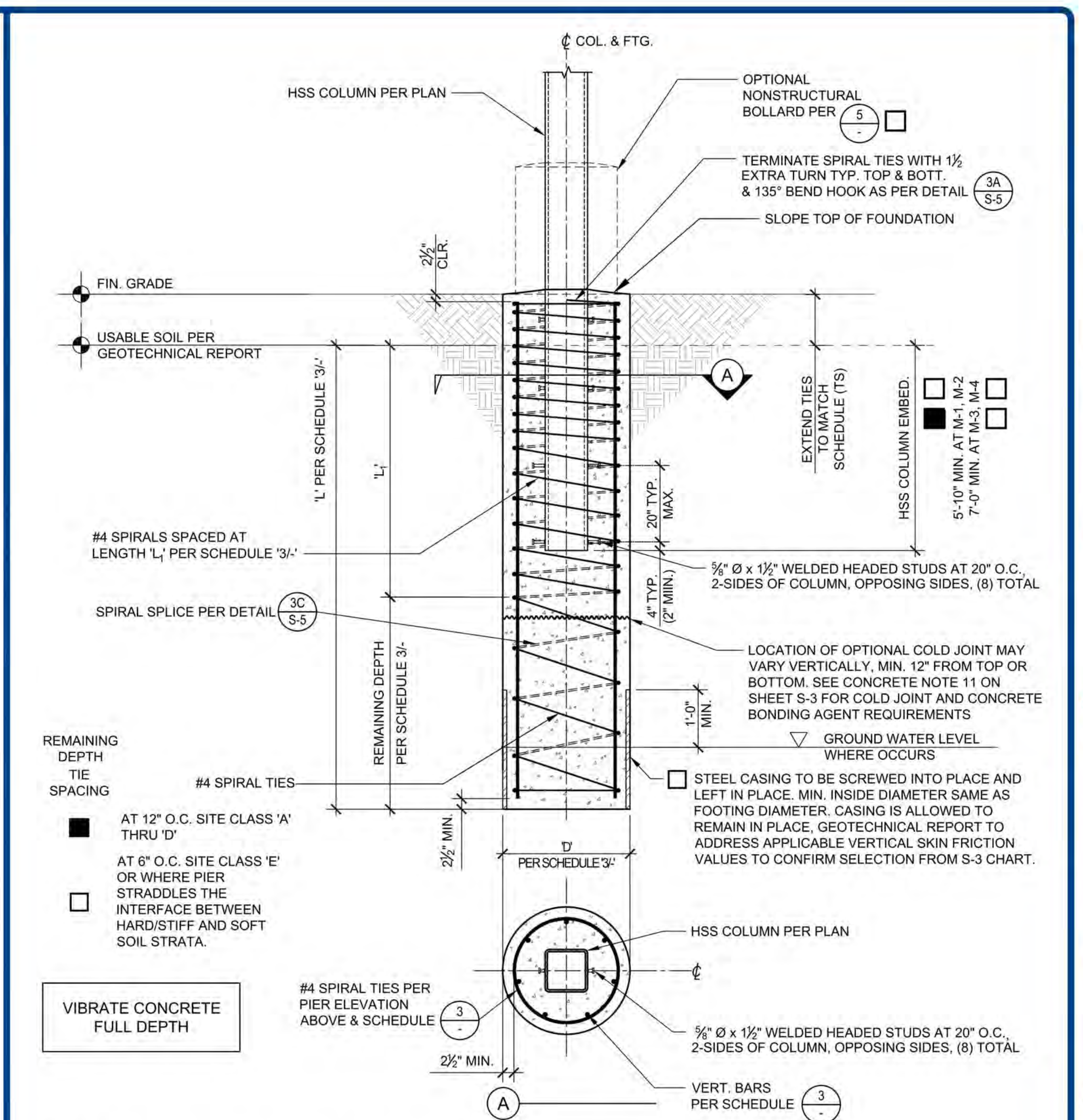
DRILLED CONCRETE PIER FOUNDATION SCHEDULE (5, 6)												
	I.D. #	DRILLED PIER DIAMETER	DRILLED PIER DEPTH 'L' BELOW FINISH GRADE BY SOIL CLASS PER SHEET S-3 (5)					EMBEDDED COLUMN	#4 SPIRAL TIES SPACING OVER 'L1' SITE CLASS A-D		#4 SPIRAL TIES SPACING OVER REMAINING DEPTH	
		D	■ V	☐ W	☐ X	☐ Y	☐ Z	(2) VERTICAL REBAR	'L1' (3)	TIE SPACING	SITE CLASS ■ A~D	SITE CLASS ☐ E
■	M1	30 (in)	11' - 6"	8' - 9"	7' - 6"	6' - 9"	5' - 9"	6 - #8	7'-6"	6"	12"	6"
☐	M2	30 (in)	11' - 9"	9' - 0"	7' - 9"	7' - 0"	6' - 0"	6 - #8	7'-6"	6"	12"	6"
☐	M3	36 (in)	15' - 6"	11' - 9"	10' - 0"	9' - 0"	7' - 9"	7 - #8	9'-0"	6"	12"	6"
☐	M4	36 (in)	15' - 9"	12' - 0"	10' - 3"	9' - 3"	7' - 9"	7 - #8	9'-0"	6"	12"	6"

FOUNDATION SCHEDULE NOTES:

1. REFER TO FOUNDATION DETAILS ON THIS SHEET.
2. REINFORCING STEEL SHALL COMPLY WITH ASTM A615 GRADE 60.
3. ■ DISTANCE 'L1' FOR UPPER TIE SPACING DOES NOT EXCEED PIER DEPTH 'L'.
4. VERTICAL REBAR WHEN ANCHOR BOLT DETAIL 4/- IS USED.
5. MAXIMUM EMBEDMENT ALLOWED 'L':
   30 (in) = 20'-0"
   36 (in) = 24'-0"
6. ☐ WHEN NO GEOTECHNICAL REPORT IS PROVIDED USE SOIL CLASS V.

3 DRILLED CONCRETE PIER FOUNDATION SCHEDULE ☐

NO SCALE

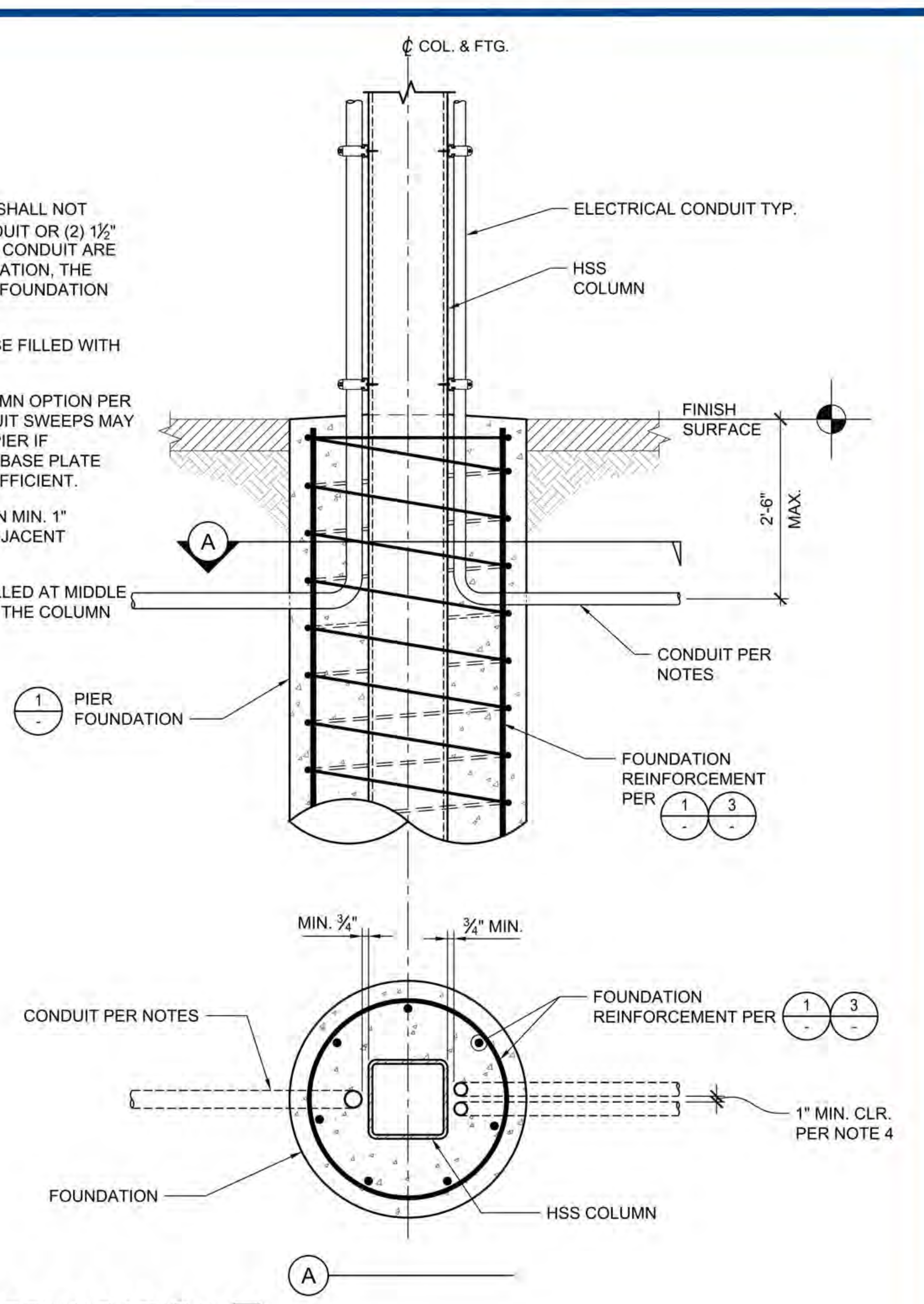


1 DRILLED PIER FOUNDATION ■

1/2"=1'-0"

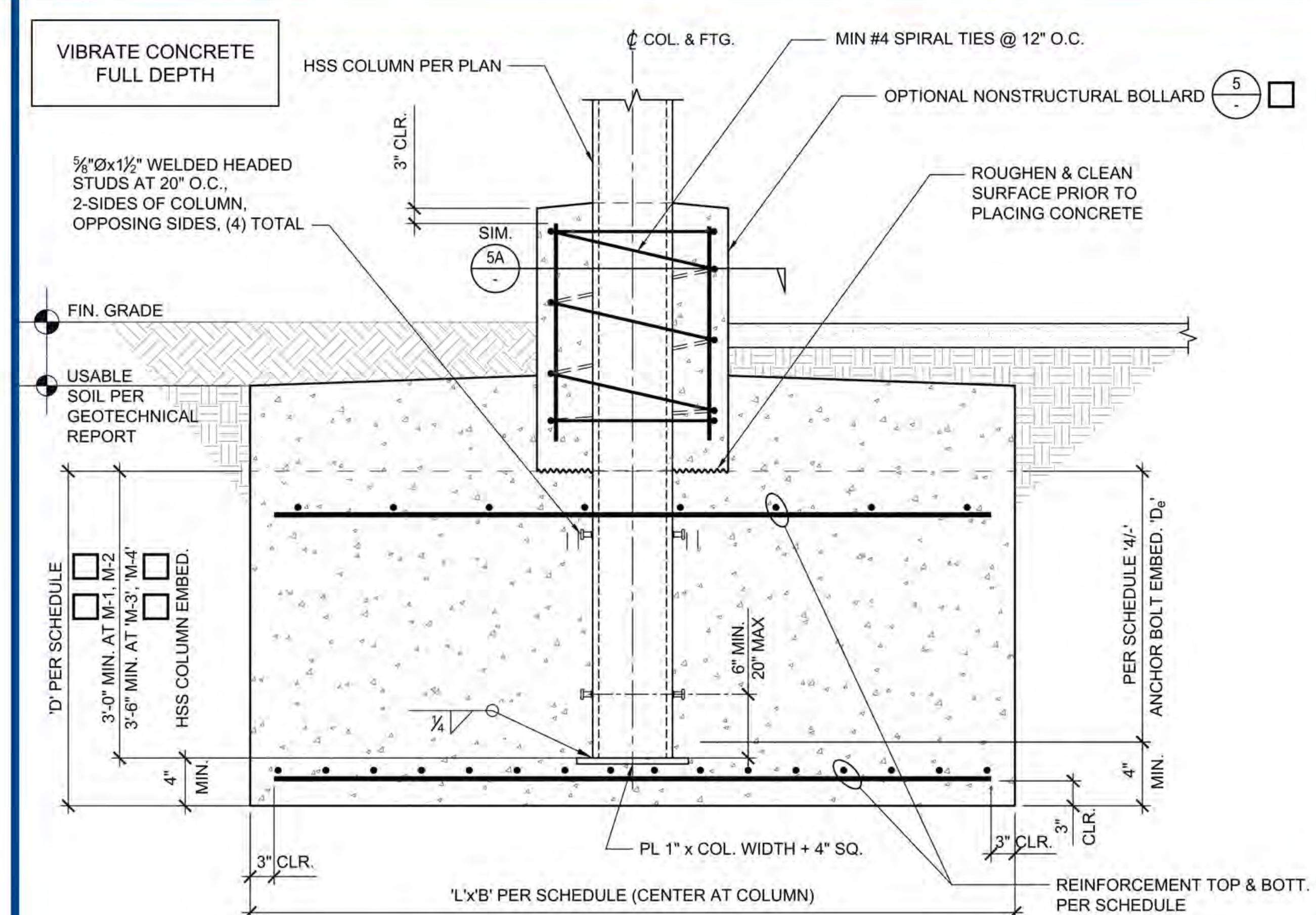
NOTES:

1. CONDUIT IN FOUNDATION SHALL NOT EXCEED (1) 2" MAX Ø CONDUIT OR (2) 1½" MAX Ø CONDUIT. WHEN (2) CONDUIT ARE USED IN THE SAME FOUNDATION, THE CONDUIT MAY ENTER THE FOUNDATION FROM EITHER SIDE.
2. CONDUIT TRENCH SHALL BE FILLED WITH MIN. 2-SACK SLURRY.
3. WHERE BASE PLATE COLUMN OPTION PER DETAIL '4/-' IS USED CONDUIT SWEEPS MAY NEED TO BE OUTSIDE OF PIER IF ALLOWABLE NOTCHING IN BASE PLATE PER DETAIL "4/-" IS NOT SUFFICIENT.
4. CONDUITS SHALL MAINTAIN MIN. 1" SEPARATION BETWEEN ADJACENT CONDUIT.
5. CONDUIT SHALL BE INSTALLED AT MIDDLE THIRD OF THE CENTER OF THE COLUMN FACE.



6 CONDUIT IN FOUNDATION ■

3/4"=1'-0"



ALTERNATIVE SPREAD FOOTING SCHEDULE				
	ID#	'L' x 'B'	'D' (1)	REINFORCEMENT
☐	M1, M2	7'-3" x 7'-3"	3'-6"	8 - #6 EA. WAY TOP 16 - #6 EA. WAY BOTT.
☐	M3, M4	10'-0" x 10'-0"	4'-0"	12 - #6 EA. WAY TOP 24 - #6 EA. WAY BOTT.

NOTES:

1. INCREASE FOOTING DEPTH TO PROVIDE 4" MINIMUM CONCRETE COVER BELOW BOTTOM OF EMBEDDED HSS COLUMN.

2 ALTERNATE SPREAD FOOTING ☐

3/4"=1'-0"

4 STEL ENGINEERING
26030 ACERO, MISSION VIEJO, CA 92691
949.305.1150 | FAX 949.305.1420

M BAR C CONSTRUCTION INC.

ENGINEER'S APPROVAL

REGISTERED PROFESSIONAL ENGINEER DUSTIN K. ROSEPINK S 5885 STRUCTURAL STATE OF CALIFORNIA

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FOUNDATION DETAILS

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S-8

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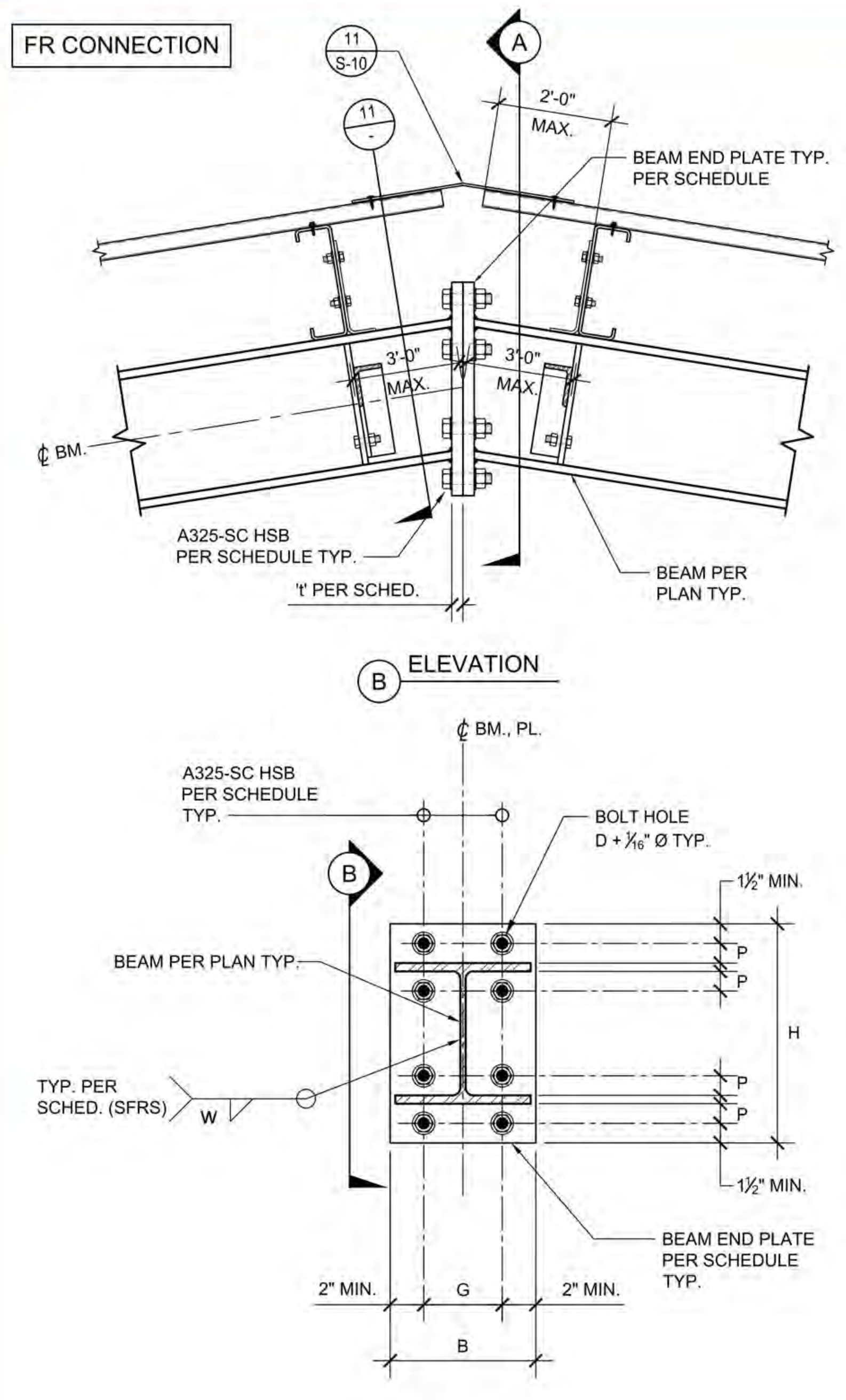
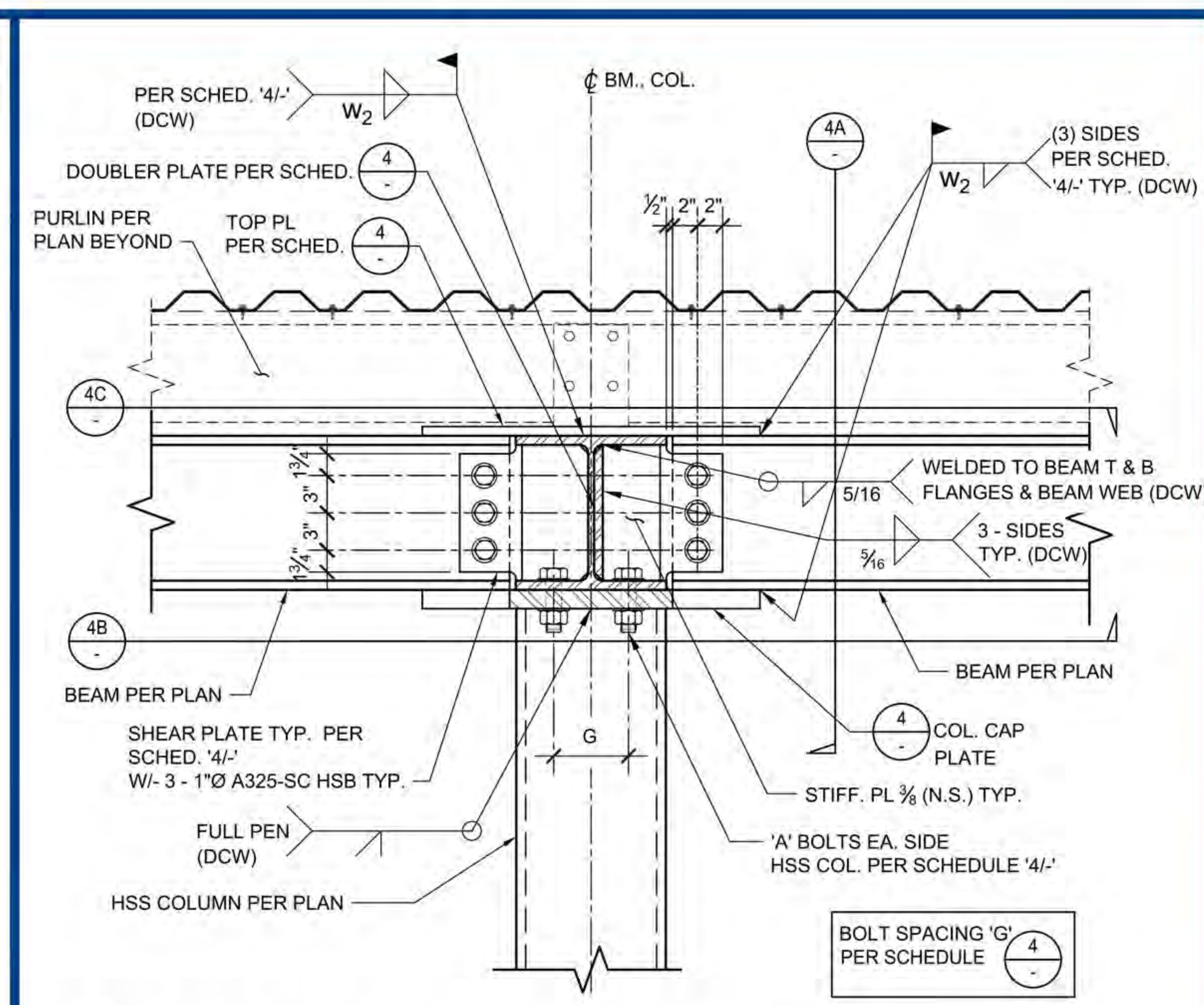


I.D. #	CONNECTION PLATES					WELD SIZE	BOLTS
	t (in)	H (in)	B (in)	G (in)	P (in)	w (in)	TOP & BOTT. (8 BOLTS TOTAL)
■ M1, M2	¾	1'-8"	9	5	2	¼	4 - ¾" Ø A325-SC
□ M3, M4	1	1'-8"	13	6	2	5/16	4 - 1" Ø A325-SC

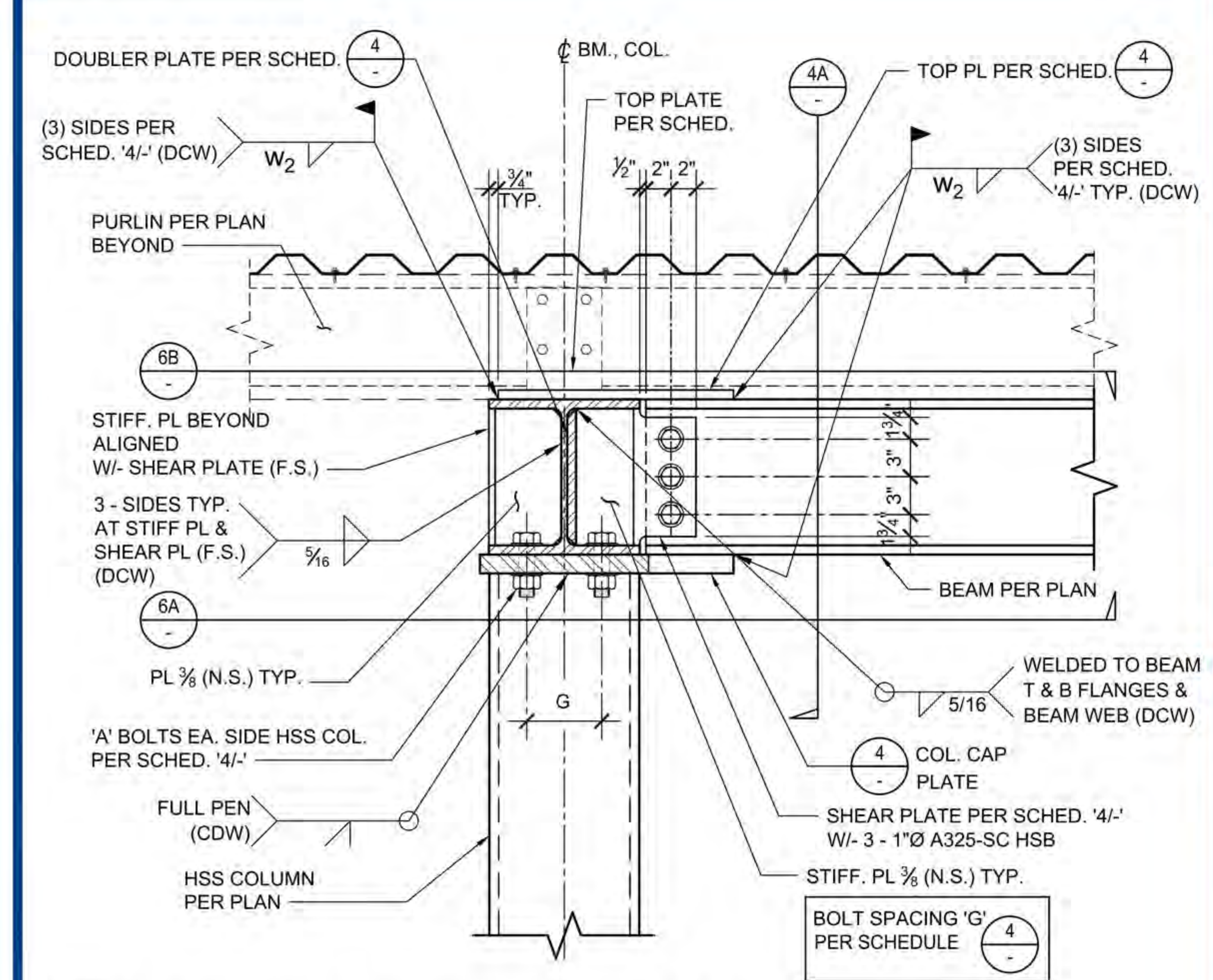
NOTES:

1. BOLTS SHALL BE PRETENSIONED A325-SC (SLIP-CRITICAL) TYPE X (THREADS EXCLUDED FROM SHEAR PLANE) CLASS A FAYING SURFACE WITH STD NUTS PER ASTM A563 GRADE DH AND WASHERS PER ASTM F436 TYPICAL U.N.O.
2. BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED.

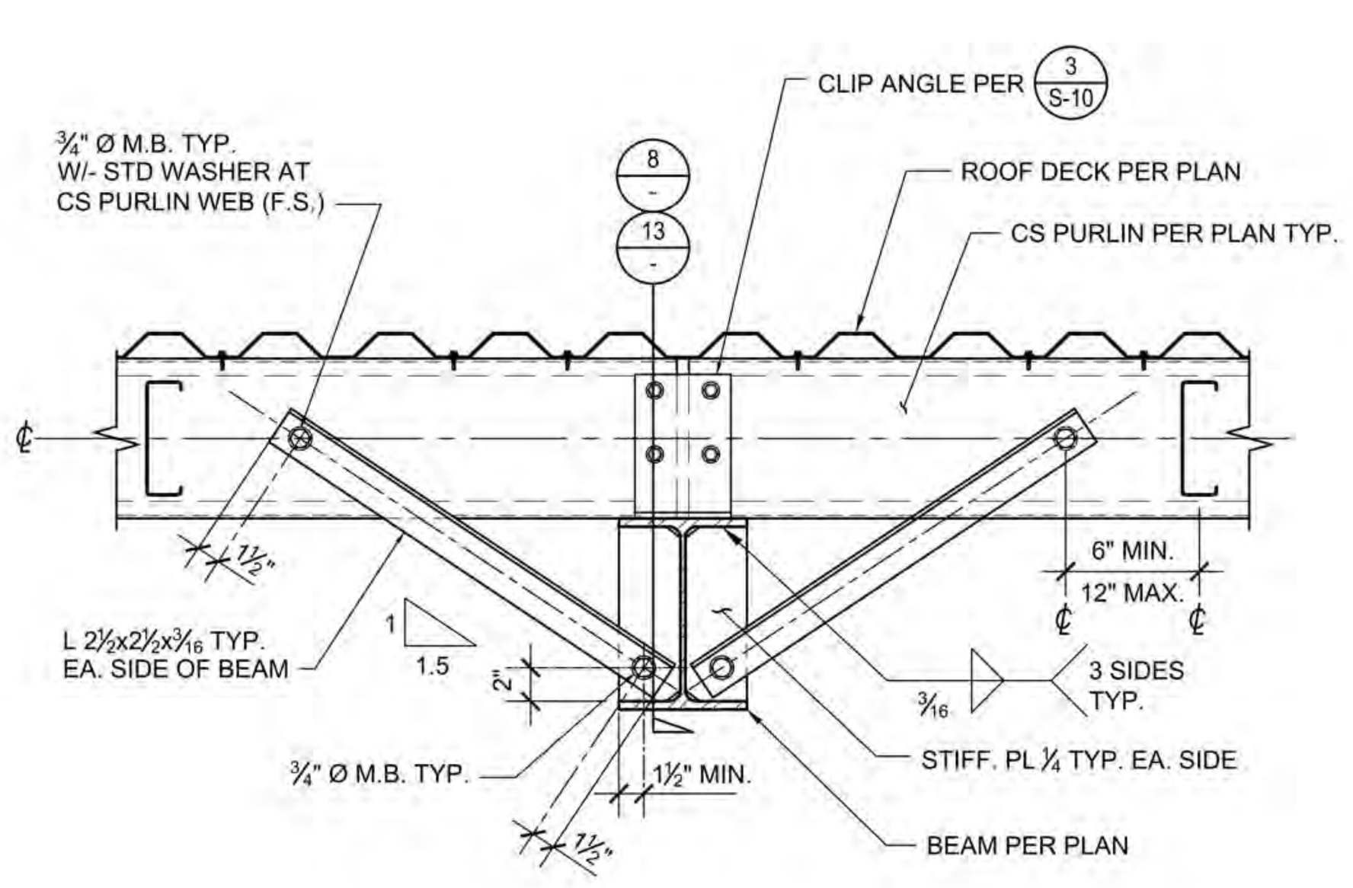
13 PITCHED BEAM MIDSPAN SPLICE
1"=1'-0"



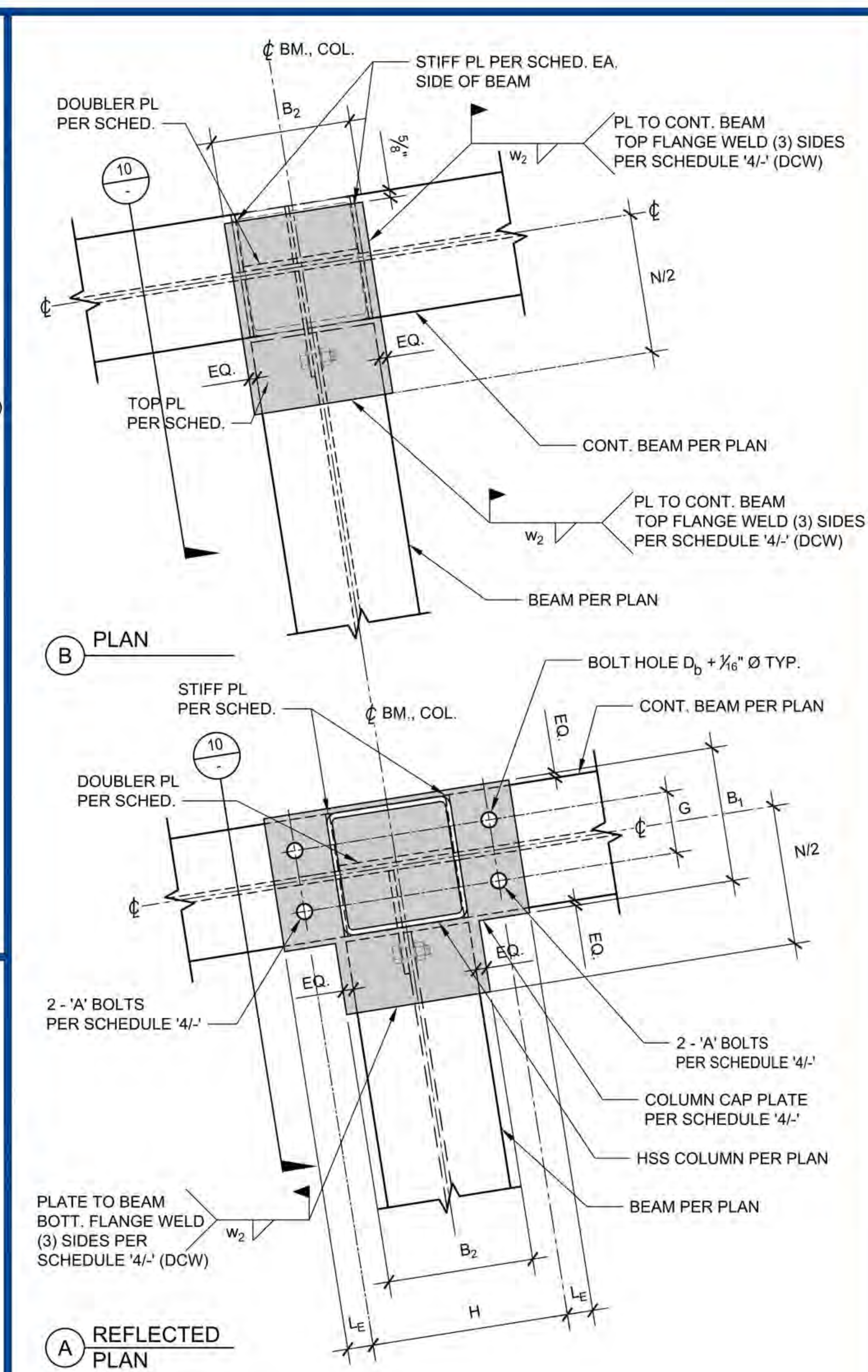
9 BEAMS AT INTERIOR HSS COLUMN
1"=1'-0"



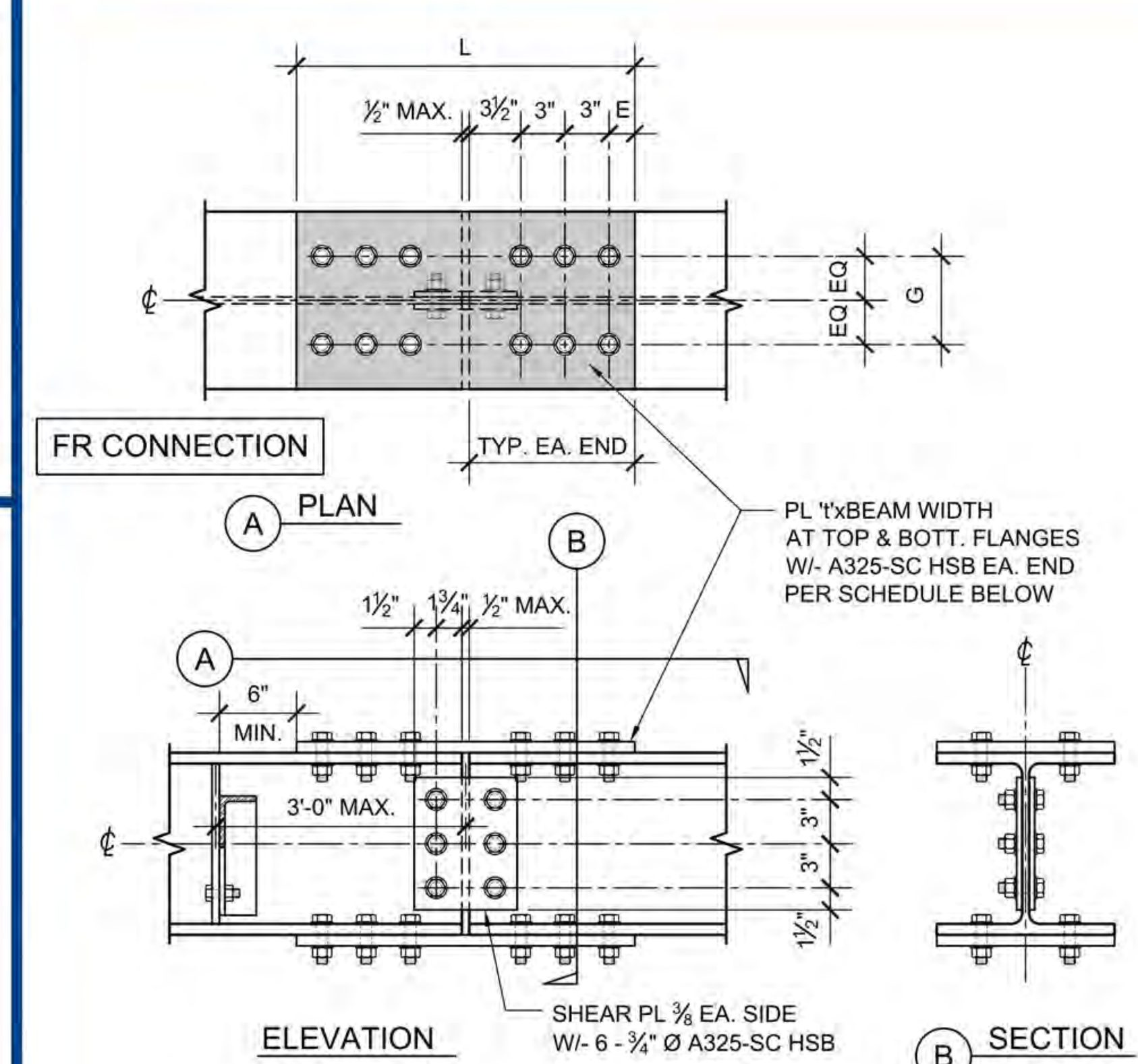
10 BEAMS AT END HSS COLUMNS
1"=1'-0"



11 TYPICAL BEAM BRACE MIDSPAN
1"=1'-0"



6 BEAM TO END COLUMN
1"=1'-0"



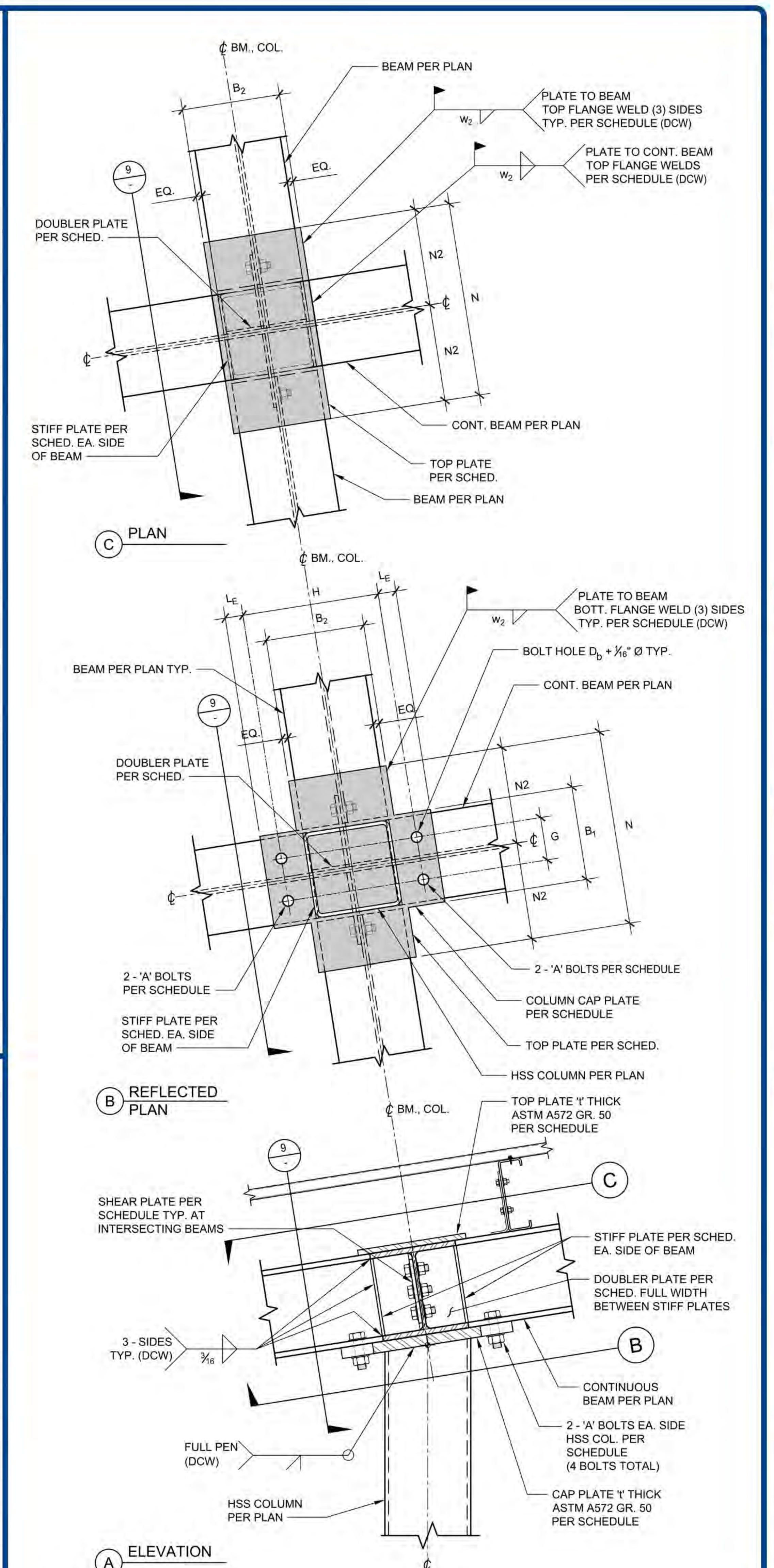
I.D. #	TOP AND BOTTOM FLANGE PLATES				FLANGE BOLTS	
	t (in)	L (in)	E (in)	G (in)	BOLT SIZE	NO. OF A325-SC BOLTS EA. END
□ M1, M2	¾	22½	1½	5	¾	6
□ M3, M4	1	23	1¾	6	⅞	6

BEAM MOMENT CONNECTION SCHEDULE

NOTES:

1. BOLTS SHALL BE PRETENSIONED A325-SC (SLIP-CRITICAL) TYPE X (THREADS EXCLUDED FROM SHEAR PLANE) CLASS A FAYING SURFACE WITH HEX NUTS PER ASTM A563 GRADE DH AND WASHERS PER ASTM F436 TYPICAL U.N.O.

8 MONOSLOPE BEAM SPLICE
1"=1'-0"



COLUMN CAP & BEAM FLANGE PLATE SCHEDULE

I.D. #	COLUMN CAP & BEAM FLANGE PLATES								WELD SIZE		H.S. BOLTS (1) D_b (in)	SHEAR PLATE	TOP PLATE	DOUBLER PLATE
	t (in)	B_1 (in)	B_2 (in)	G (in)	H (in)	L_E (in)	N (in)	S (in)	w_1 (in)	w_2 (in)	'A' BOLTS	't' (in)	't' (in)	't' (in)
■ M1	1.25	11	11	5	18	2	25	4	¼	7/16	1⅛" Ø	½	¾	5/16
□ M2	1.25	11	11	5	18	2	25	4	5/16	7/16	1⅛" Ø	½	¾	5/16
□ M3	1.75	14	14	6	22	2.5	29.5	6	⅜	⅝	1¼" Ø	⅝	1	7/16
□ M4	1.75	14	14	6	22	2.5	29.5	6	½	⅝	1¼" Ø	⅝	1	7/16

NOTES:

1. BOLTS SHALL BE PRETENSIONED A325-SC (SLIP-CRITICAL) TYPE X (THREADS EXCLUDED FROM SHEAR PLANE) CLASS A FAYING SURFACE WITH STANDARD NUTS PER ASTM A563 GRADE DH AND WASHERS PER ASTM F436 TYPICAL U.N.O.
2. BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED.

4 BEAM TO INTERIOR COLUMN
1"=1'-0"

4 STEL ENGINEERING
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3066 FREEPORT BLVD, SACRAMENTO, CA 95818

CLIENT

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

425 1ST AVE, SACRAMENTO, CA 95818.

ISSUED

MARK	DATE	DESCRIPTION
	12/7/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

LIONAKIS PROJECT NO:	023040
DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	
COPYRIGHT:	LIONAKIS 2017

TITLE

FRAMING CONNECTION DETAILS

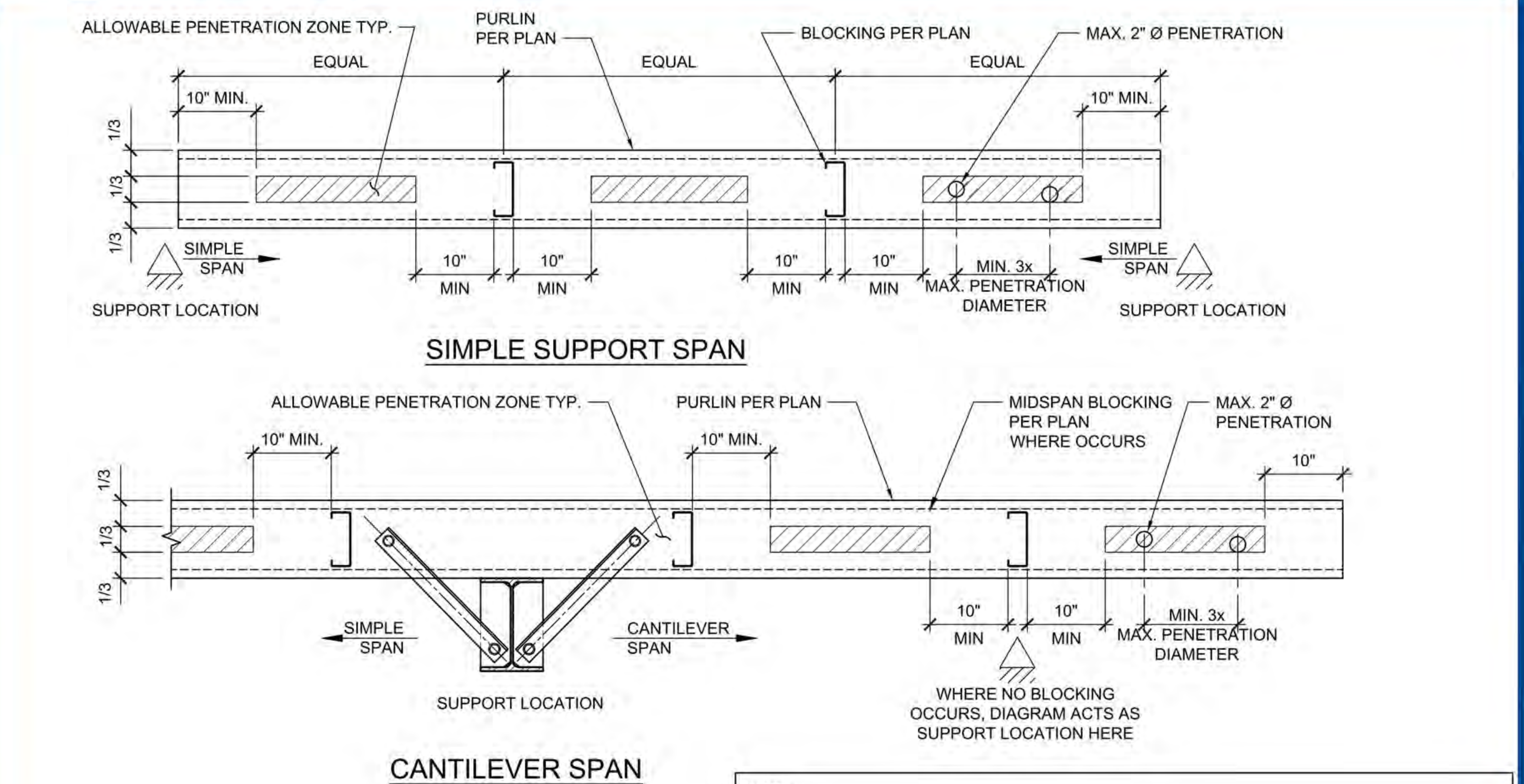
SHEET

S-9

IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY

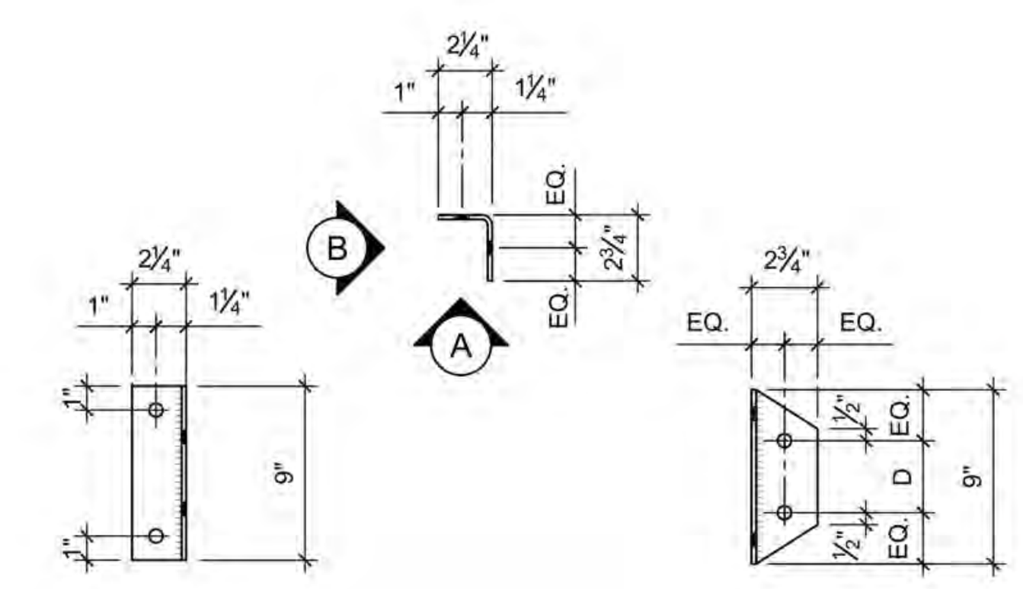
BIM 360://023040 SCUSD McClatchy HS Fields/023040_ARCHSITE_R20_CENTRAL.rvt

12/6/2023 8:06:03 AM

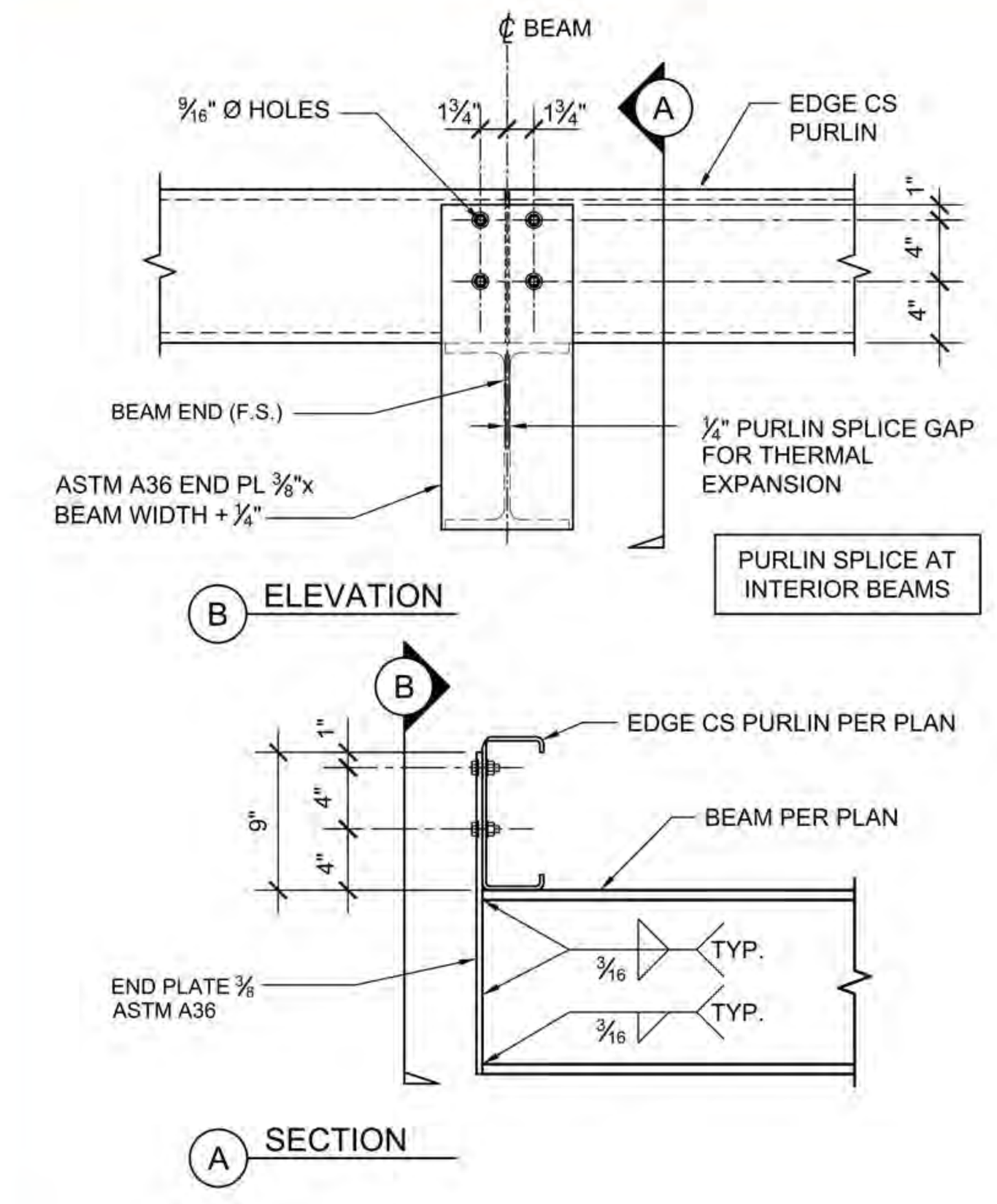


NOTE:
IF MORE THAN 5 PENETRATIONS PER SPAN ARE NEEDED, CONTRACTOR TO SUBMIT AN RFI TO DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE TO ENSURE REQUIREMENTS OF THIS DETAIL ARE MET AND TO JUSTIFY THE QUANTITY OF PENETRATIONS NEEDED. FOR PURLINS WITH ANGLE BRACING TO W-BEAMS, A MAXIMUM OF 2 PENETRATIONS IS PERMITTED, AND THERE SHALL BE 2 BLOCKINGS BETWEEN PENETRATION AND ANGLE BRACING.

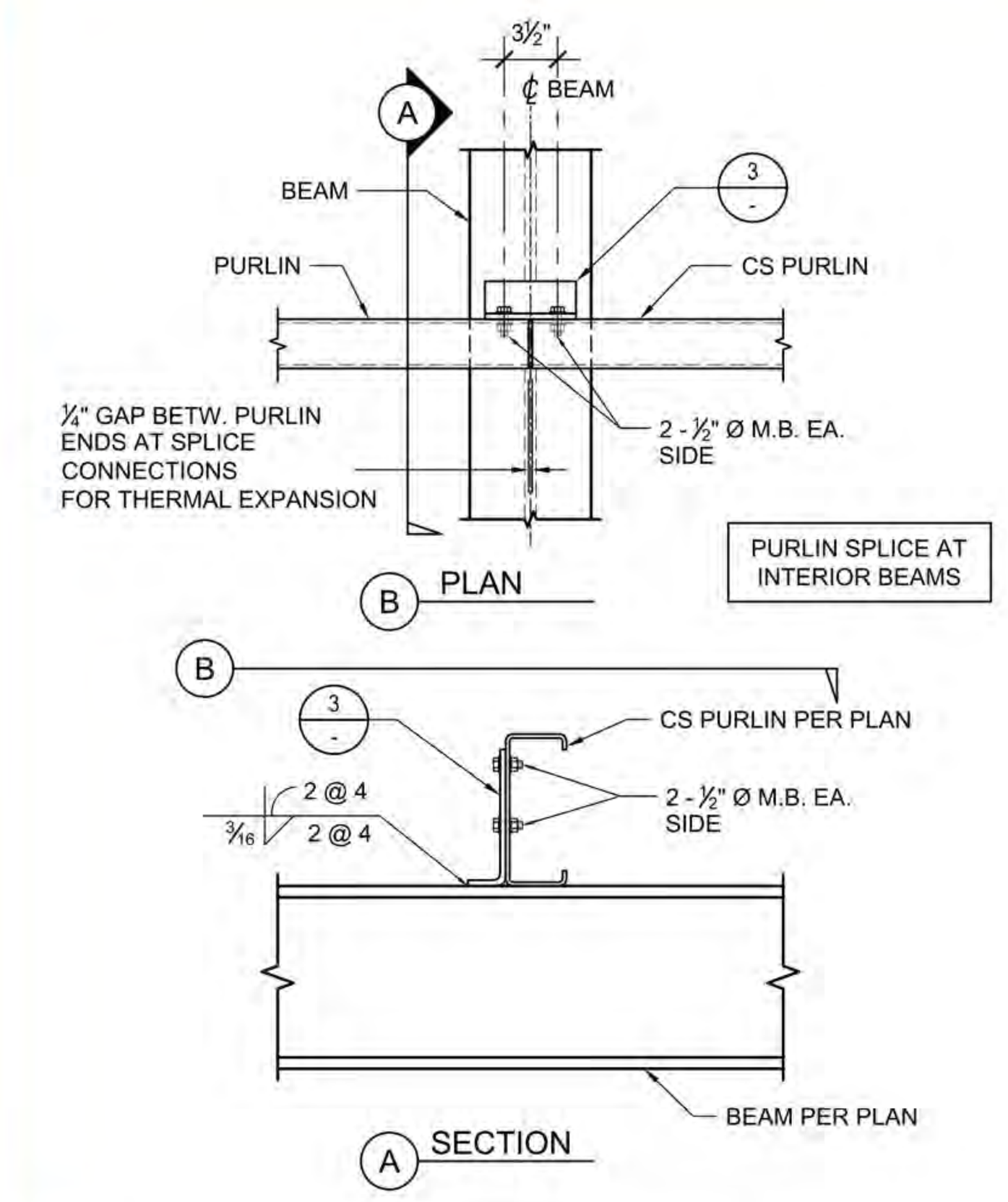
12 ALLOWABLE PURLIN PENETRATIONS — N.T.S.



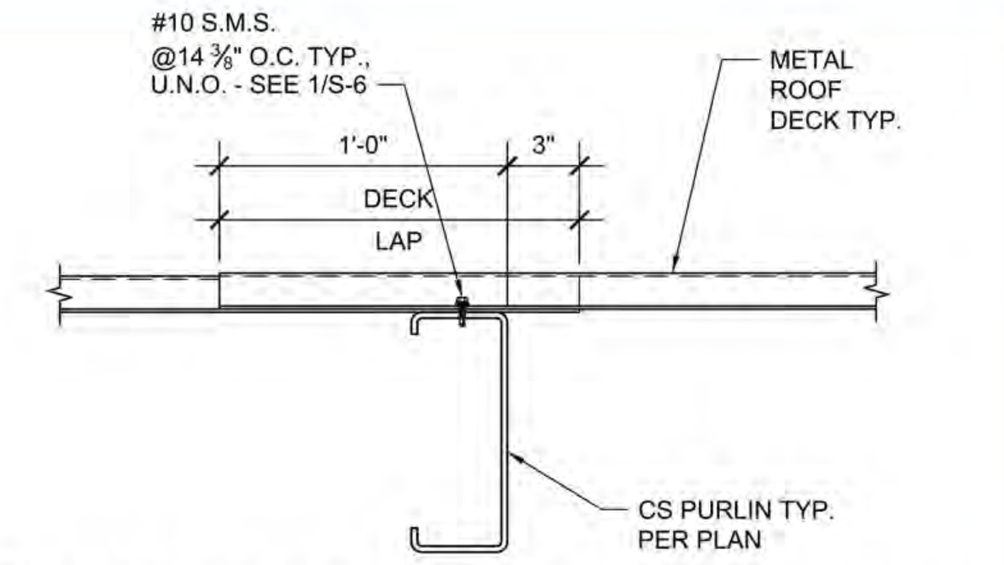
7A PURLIN BLOCKING CLIP — 1"=1'-0"



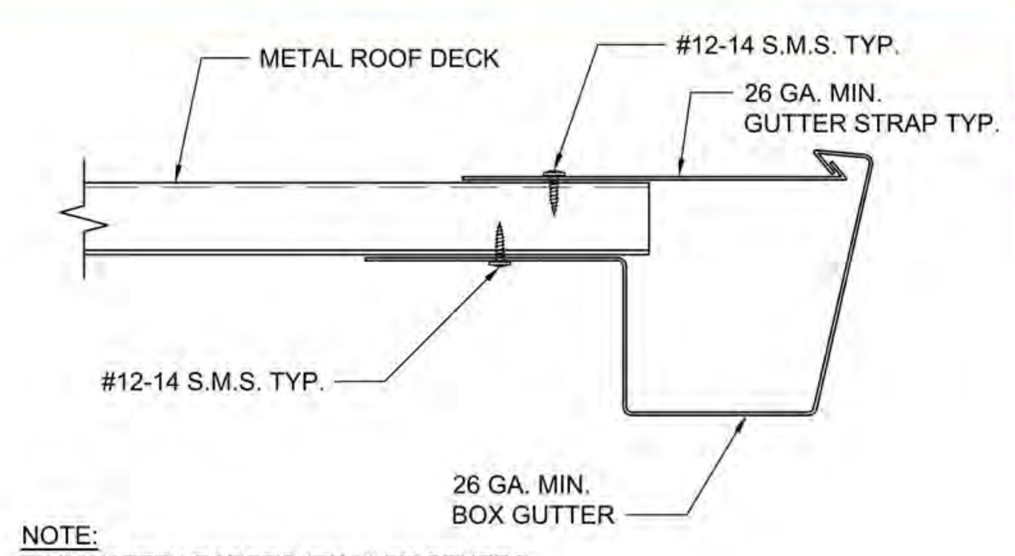
4 TYPICAL BEAM END PLATE EXTERIOR PURLIN SPLICE — 1"=1'-0"



1 TYPICAL PURLIN SPLICE AT BEAM — 1"=1'-0"

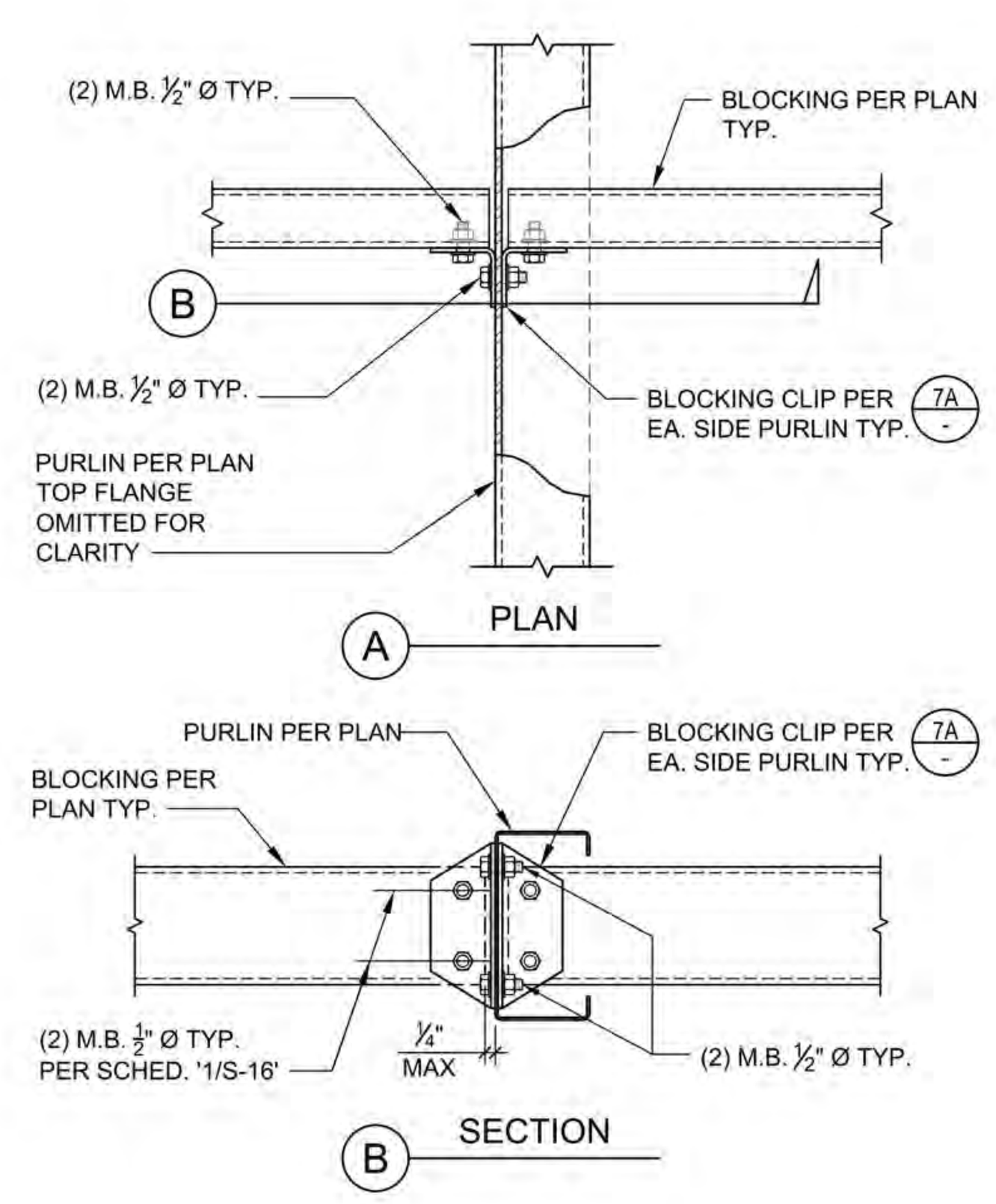


8 ROOF DECK SPLICE — 1-1/2"=1'-0"

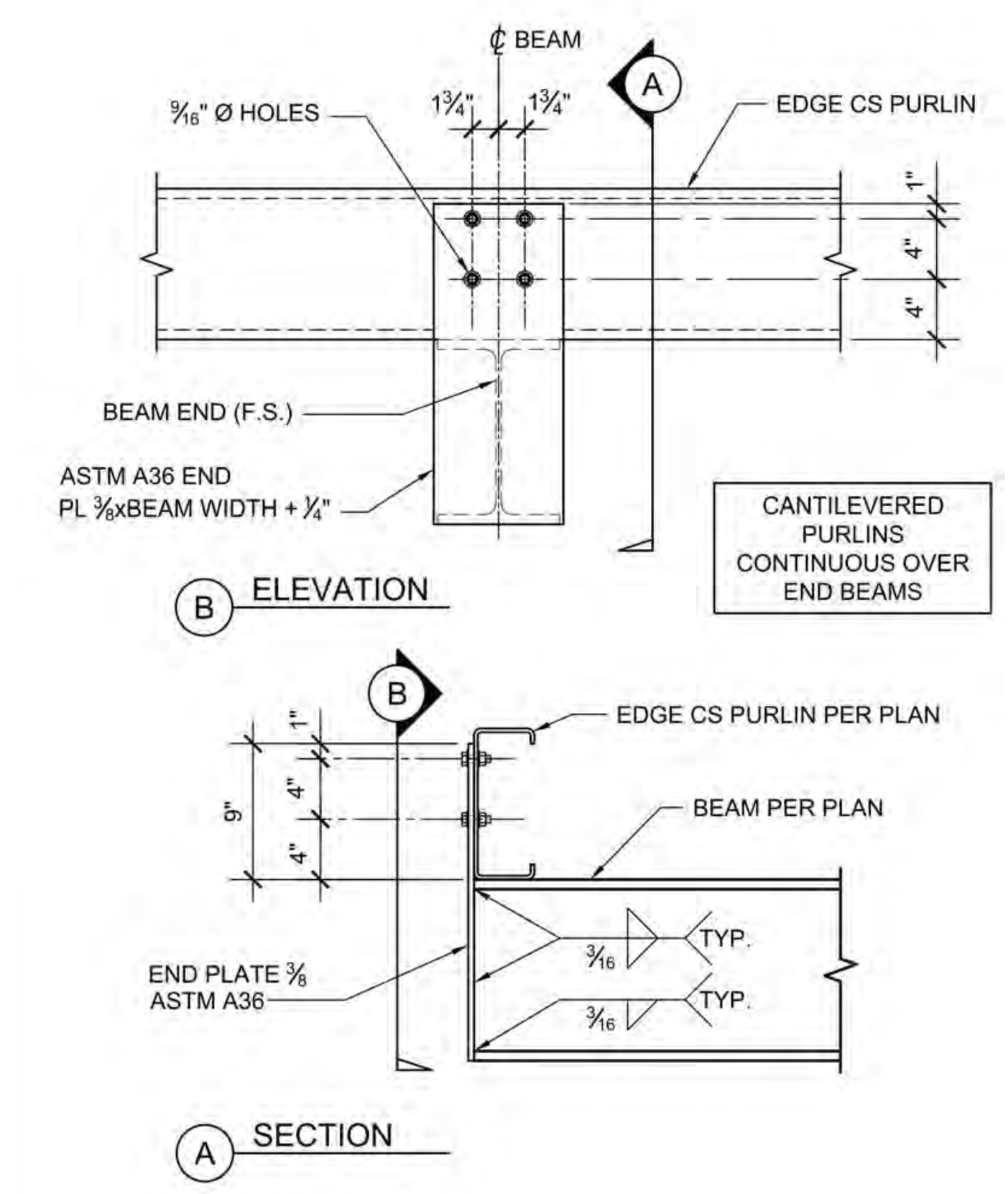


NOTE:
RAINWATER LEADERS (RWL) BY OTHERS

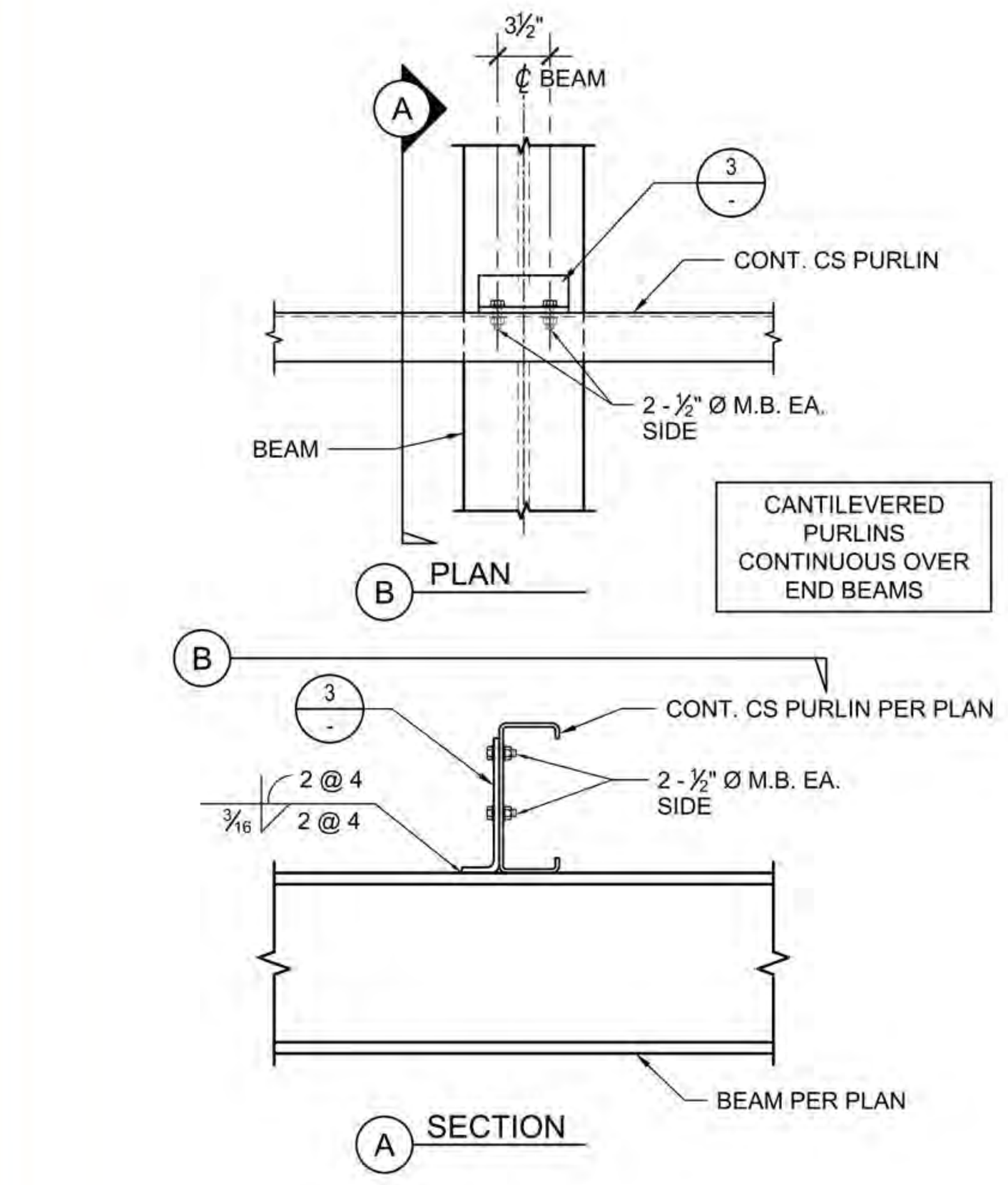
9 ROOF DECK GUTTER ☐ — 3"=1'-0"



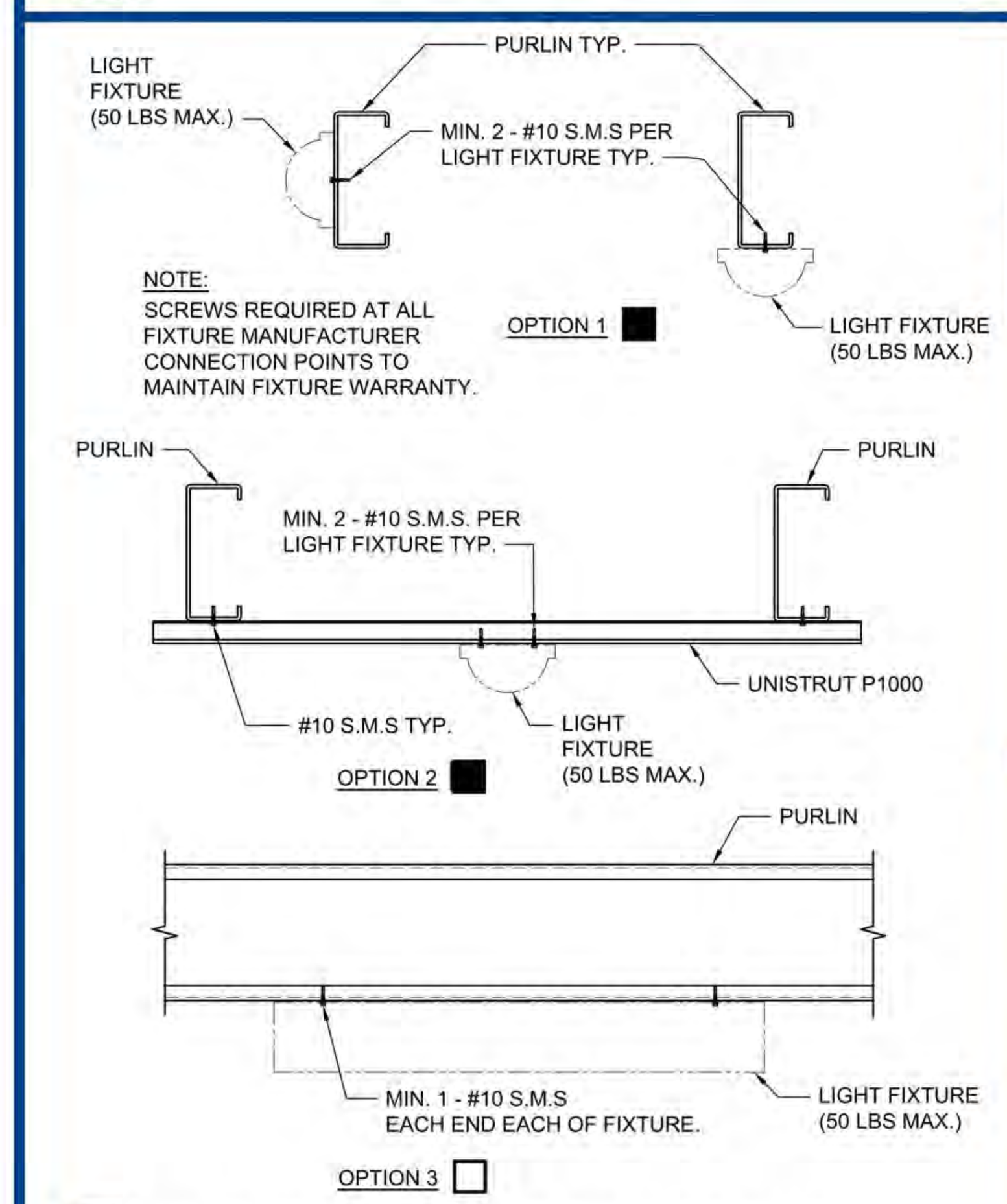
7B PURLIN BLOCKING CONNECTION AT INTERIOR — 1"=1'-0"



5 TYPICAL BEAM END PLATE CONT. EXTERIOR PURLIN — 1"=1'-0"



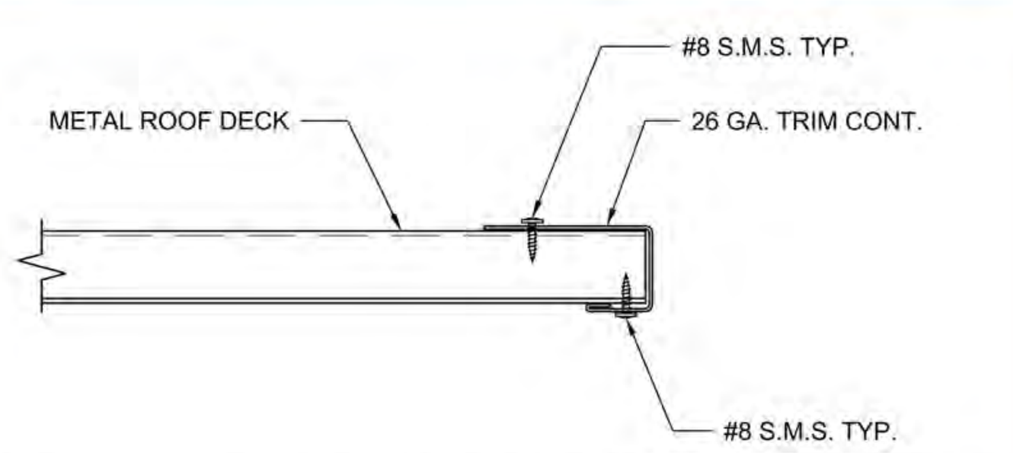
2 TYP. CONT. PURLIN TO BEAM — 1"=1'-0"



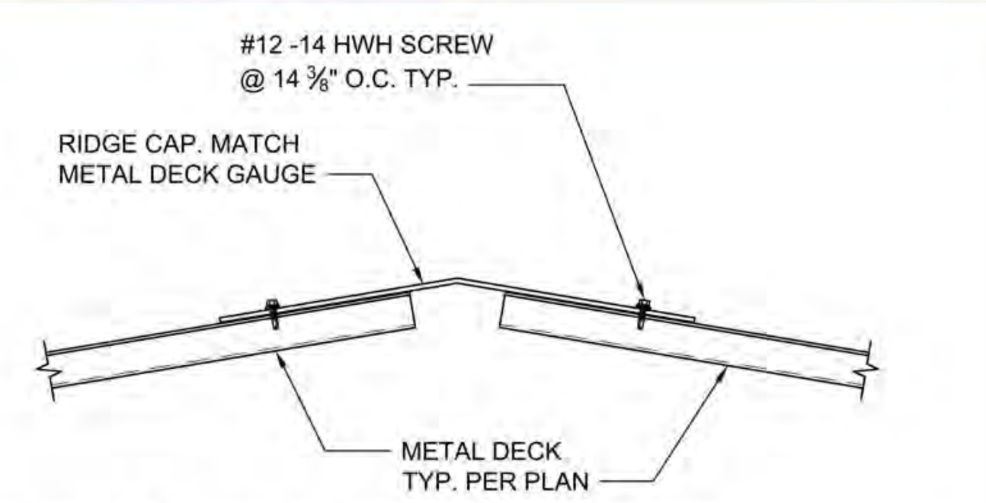
NOTE:
SCREWS REQUIRED AT ALL FIXTURE MANUFACTURER CONNECTION POINTS TO MAINTAIN FIXTURE WARRANTY.

14 LIGHT INSTALLATION OPTIONS — 1"=1'-0"

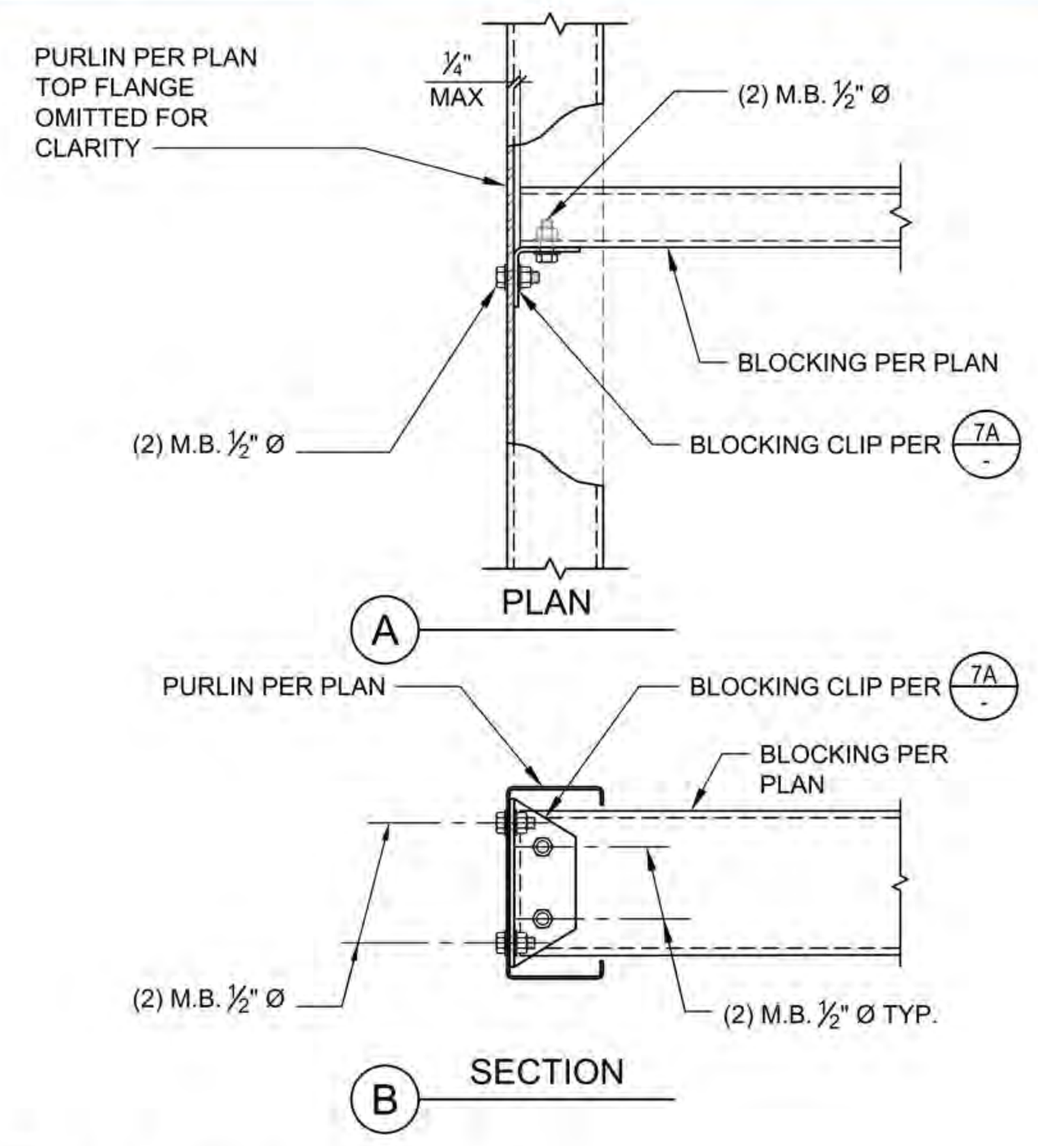
13



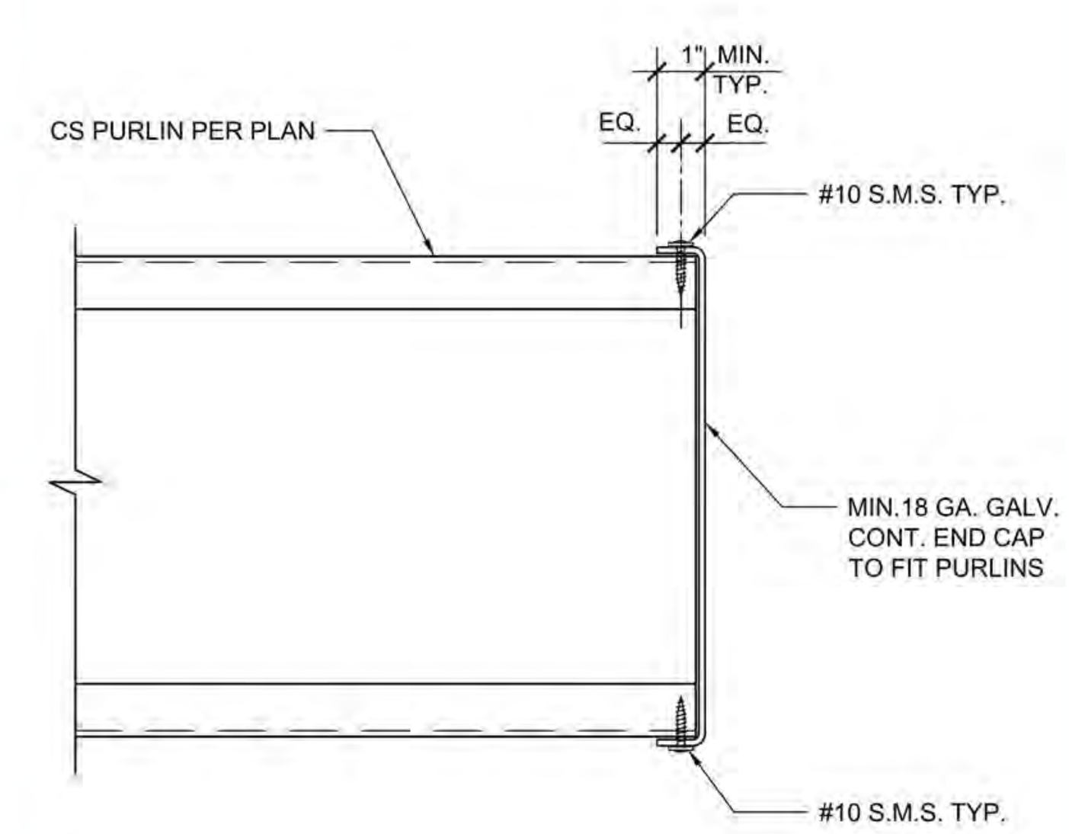
10 ROOF DECK EDGE TRIM — 3"=1'-0"



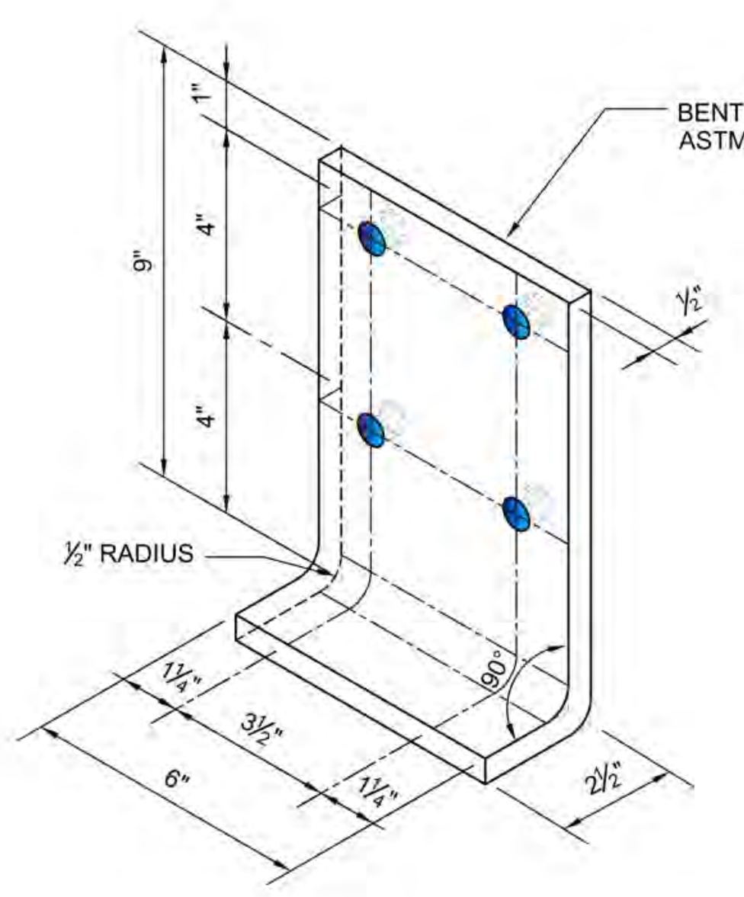
11 ROOF DECK RIDGE CAP ☐ — 1-1/2"=1'-0"



7C PURLIN BLOCKING CONNECTION AT EXTERIOR — 1"=1'-0"



6 TYP. PURLIN END ENCLOSURE — 3'-0"=1'-0"



3 TYPICAL PURLIN CLIP ANGLE — 3"=1'-0"

4 STEEL ENGINEERING
26030 ACERO, MISSION VIEJO, CA 92691
949.305.1150 | FAX 949.305.1420

MBARC CONSTRUCTION INC.

ENGINEER'S APPROVAL

BID INFORMATION
THE STRUCTURES AND DESIGNS IN THIS PC ARE PROPRIETARY TO M BAR C CONSTRUCTION, INC. AND 4 S.T.E.L. ENGINEERING, INC. ALL SITES USING THIS PC: M BAR C CONSTRUCTION, INC. SHALL BE THE STEEL CONTRACTOR & 4 S.T.E.L. ENGINEERING, INC. SHALL BE THE SEOR. SEE THE STANDARD NOTES FOR PC USE ON S-1 FOR ADDITIONAL REQUIREMENTS.

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122015 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 11/09/2023

SITE SPECIFIC INFORMATION

REVISIONS

MARK	DATE	DESCRIPTION

4 STEL JOB #	MC05-02-1
DATE	11-01-23
DRAWN BY	NML
CHECKED	CDL

PURLIN & ROOF DECK DETAILS

S-10

NOTE: IF DWG. IS NOT 24 x 36, IT IS NOT FULL SIZE

LIONAKIS
2025 Nineteenth Street
Sacramento CA 95818
P 916.558.1900
www.lionakis.com

CONSULTANT

SEAL
LICENSED ARCHITECT BRIAN BELL C28712 REN 01-31-25 STATE OF CALIFORNIA

PROJECT
MCCLATCHY HIGH SCHOOL ATHLETIC FIELD RENOVATION
3066 FREEPORT BLVD, SACRAMENTO, CA 95818

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
425 1ST AVE, SACRAMENTO, CA 95818.

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	12/7/2023	BID SET - NOT DSA APPROVED

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LIONAKIS PROJECT NO:	023040
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COPYRIGHT:	LIONAKIS 2017

TITLE
PURLIN & ROOF DETAILS

SHEET
S-10

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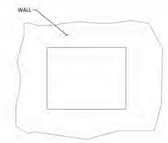
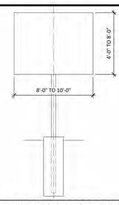
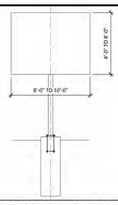
NEVCO DSA P.C. 04-122317



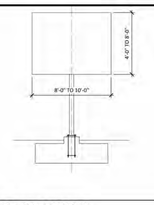
INDOOR WALL MOUNTED ASSEMBLY
SHEETS: SB0.1, SB0.2, SB6.1



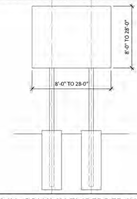
MARQUEE: COLUMN EMBEDDED IN CAISSON
SHEETS: SB0.1, SB0.2, SB1.1, SB5.1



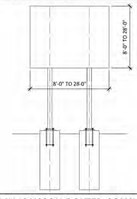
MARQUEE: CAISSON-BOLTED COLUMN
SHEETS: SB0.1, SB0.2, SB1.2, SB5.1



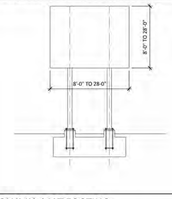
MARQUEE: MAT FOOTING
SHEETS: SB0.1, SB0.2, SB1.3, SB5.1



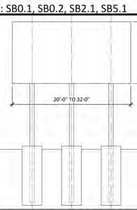
2 COLUMN: COLUMN EMBEDDED IN CAISSON
SHEETS: SB0.1, SB0.2, SB2.1, SB5.1



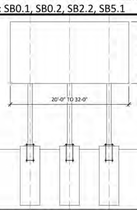
2 COLUMN: CAISSON-BOLTED COLUMN
SHEETS: SB0.1, SB0.2, SB2.2, SB5.1



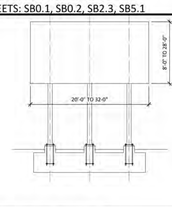
2 COLUMN: MAT FOOTING
SHEETS: SB0.1, SB0.2, SB2.3, SB5.1



3 COLUMN: COLUMN EMBEDDED IN CAISSON
SHEETS: SB0.1, SB0.2, SB3.1, SB5.1

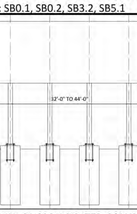


3 COLUMN: CAISSON-BOLTED COLUMN
SHEETS: SB0.1, SB0.2, SB3.2, SB5.1

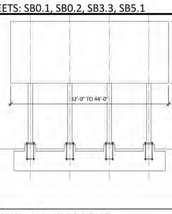


3 COLUMN: MAT FOOTING
SHEETS: SB0.1, SB0.2, SB3.3, SB5.1

4 COLUMN: COLUMN EMBEDDED IN CAISSON
SHEETS: SB0.1, SB0.2, SB4.1, SB5.1



4 COLUMN: CAISSON-BOLTED COLUMN
SHEETS: SB0.1, SB0.2, SB4.2, SB5.1



4 COLUMN: MAT FOOTING
SHEETS: SB0.1, SB0.2, SB4.3, SB5.1

TABLE C - SITE SPECIFIC SEISMIC AND WIND VALUES

EARTHQUAKE DESIGN DATA	MAXIMUM		SITE SPECIFIC
Mapped Spectral Response Accelerations (Maximum)	S_s= 3.73 g S_1= 1.0 g	≥	S_s= _____ g S_1= _____ g
Site Class	D		D
Spectral Response Coefficients (Maximum)	S_{MS}= 2.49 g S_{M1}= 1.0 g	≥	S_{MS}= _____ g S_{M1}= _____ g
Wind Design Data	**Value**		**Value**
Design Wind Speed (3-sec gust), V_{ULT}	100 mph	≥	_____ mph
Exposure Category	C		C

TABLE D - SITE FLOOD ZONE

THIS SECTION NOT REQUIRED IF SITE IS IN FLOOD ZONE X

Geotechnical Engineer:

Letter Dated:

TABLE B - STRUCTURAL DESIGN VALUES

All values reported are unfactored and strength level, unless noted otherwise

Gravity Design Data	Value
Dead Loads:	
Sign Dead Load	PER SCHEDULE
Snow Loads:	
Ground Snow Load, P_f (Maximum)	30 psf
Deflection Criteria:	
Sign, Wind Load	H/240

Wind Design Data	Value
Design Wind Speed (3-sec gust), V_{ULT}	100 mph
Design Wind Speed (3-sec gust), V_{ASD}	77 mph
Risk Category	II
Exposure Category	C
Applicable Internal Pressure Coefficient	±0.18
Design Wind Pressure(s) for Components & Cladding (Not specifically designed by the Registered Design Professional, and to be modified by applicable factors per ASCE 7)	q_h=21.8xK$_z$ psf K$_z$VARIES

Earthquake Design Data	Value
Risk Category	II
Importance Factor, I_e	1.0
Mapped Spectral Response Accelerations (Maximum)	S_s= 3.73 g S_1= 1.0 g
Site Class	A through E
Spectral Response Coefficients (Maximum)	S_{DS}= 2.49 g S_{D1}= 1.0 g
Seismic Design Category	E
Analysis Procedure Used	Equivalent Lateral Force Procedure (ASCE 7, 12.8)
Basic Seismic-Force Resisting System	Non-Building Structure, ASCE 7-16 Chapter 15
Response Modification Factor, Signs and Billboards Table 15.4-2	R= 3.0
Seismic Response Coefficient	C_s= 0.83
Design Base Shear	V= C_s w_p

Flood Design
When the scoreboard is located in a flood zone other than Zone X, a letter stamped and signed from a Geotechnical Engineer is needed to validate allowable soil values specified in the PC are still applicable.

Geotechnical Design Data	Value
Geotechnical Design Based on: 2022 California Building Code, Chapter 18A, Table 1806.A.2 (Class 5 Material)	
Allowable Soil Bearing Pressure (DL + LL)	1,500 psf
Design Passive Pressure, P_p [Tabular value has been increased per CBC Section 1806A.3.4 for pier design)	100 pcf
Design Skin Friction, f_s	100 psf

SCOREBOARD ASSEMBLY WORKSHEET (TABLE A, C & D) INSTRUCTIONS

STEP 1: DETERMINE DESIRED SCOREBOARD ASSEMBLY. FILL OUT SCOREBOARD ASSEMBLY TABLE (TABLE A BELOW). PROVIDE NEVCO PART NUMBERS, PART HEIGHT, PART WIDTH, AND PART WEIGHTS.

STEP 2: DETERMINE TOTAL ASSEMBLY HEIGHT, WIDTH, AND WEIGHT, TABLE A

STEP 3: BASED ON TOTAL ASSEMBLY WIDTH, DETERMINE THE NUMBER OF REQUIRED COLUMNS.
SEE SHEETS SB1.X FOR 1 COLUMN ASSEMBLY OPTIONS
SB2.X FOR 2 COLUMN ASSEMBLY OPTIONS
SB3.X FOR 3 COLUMN ASSEMBLY OPTIONS
SB4.X FOR 4 COLUMN ASSEMBLY OPTIONS
SB6.1 FOR WALL MOUNTED ASSEMBLY OPTIONS (SKIP STEPS 4, 5, & 7)

STEP 4: PICK FOUNDATION TYPE (CAISSON WITH EMBEDDED COLUMN, CAISSON WITH BOLTED COLUMN, OR MAT FOOTING) . MARK APPLICABLE SHEET ON SHEET INDEX, SB0.1

STEP 5: MARK APPLICABLE CHECK BOX FOR SCOREBAORD SIZE ON DETAIL 'A' OF SELECTED COLUMN/FOUNDATION OPTION (SHEETS SB1.X, SB2.X, SB3.X OR SB4.X)

STEP 6: FILL IN SITE SPECIFIC SEISMIC AND WIND VALUES TABLE C ON SB0.1.

STEP 7: FILL IN SITE SPECIFIC FLOOD ZONE AS REQUIRED, TABLE D ON SB0.1

STEP 8: VERIFY ALL APPLICABLE SHEETS ARE MARKED ON SHEET INDEX, SB0.1. INCLUDE ONLY MARKED SHEETS AS PART OF DSA SUBMITTAL

SITE SPECIFIC SUBMITTAL REQUIREMENTS

SEE DSA POLICY PL 07-02 FOR ADDITIONAL INSTRUCTIONS REGARDING USE AND APPLICATION OF THIS PRE-CHECK DOCUMENT. ALL SITE SPECIFIC SUBMITTALS SHALL INCLUDE:

1. COMPLETED DSA 1 APPLICATION, DSA3, DSA 103, AND FILING FEE AND COPY OF THE PRE-CHECK DOCUMENT WITH APPLICABLE DESIGN OPTION MARKED ON THE MARQUEE, TWO COLUMN, THREE COLUMN, FOUR COLUMN, OR WALL ASSEMBLY SCHEDULES.
2. SITE PLAN OF FACILITY IDENTIFYING ALL STRUCTURES BY DSA APPLICATION NUMBER. LOCATION OF SCOREBOARD SHALL BE IDENTIFIED. ELECTRICAL PANEL SERVING THE SCOREBOARD SHALL BE LOCATED AND IDENTIFIED.
3. WHERE WIRELESS CONTROLLERS ARE NOT SPECIFIED, AN ACCESSIBLE PATH OF TRAVEL AND ACCESSIBLE SEATING FOR THE SCOREBOARD OPERATOR SHALL BE IDENTIFIED AND PROVIDED.
4. PROVIDE AN ELEVATION OF PROPOSED SCOREBOARD IDENTIFYING ALL INSTALLED DISPLAY COMPONENTS, SIGNAGE, TRUSSES, AND ADDITIONAL COMPONENTS IN THE PRE-CHECK DOCUMENT. ALL ELEMENT WEIGHTS SHALL BE SPECIFIED.
5. THE APPLICABLE SHEETS SHALL BE IDENTIFIED BY MARKING APPROPRIATE CHECK BOX ON THIS SHEET.
6. THE APPLICABLE CONFIGURATION SHALL BE IDENTIFIED BY MARKING APPROPRIATE CHECK BOX ON THE 'A' DETAILS ON THE APPLICABLE SHEET.
7. PROVIDE CUT SHEETS OF THE BOARDS, BOXES, AND EQUIPMENT TO BE MOUNTED ON THE STRUCTURE. CUT SHEETS SHALL INCLUDE WEIGHTS AND DIMENSIONS
8. SITE SPECIFIC SEISMIC DESIGN CRITERIA SHALL BE PROVIDED IN THE DRAWINGS.
9. SITE SPECIFIC BASIC DESIGN WINDSPEED AND SITE EXPOSURE SHALL BE PROVIDED ON THE DRAWINGS, SEE TABLE C.
10. STEEL COATING SPECIFICATIONS FOR WEATHER PROTECTION IF DIFFERENT THAN NOTED ON SB0.3
11. A GEOHAZARD REPORT IS NOT REQUIRED PER IR A-4.13. IF A SCOREBOARD IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X, A LETTER STAMPED AND SIGNED BY A GEOTECHNICAL ENGINEER IS REQUIRED VALIDATING THE ALLOWABLE SOIL VALUES, PROVIDE INFORMATION IN TABLE D.
12. PROVIDE A SITE SPECIFIC DESIGN FOR STRUCTURES THAT DO NOT MEET THE MINIMUM SETBACK REQUIREMENTS.
13. PROVIDE A SITE SPECIFIC DESIGN FOR STRUCTURES LOCATED IN AN AREA WITH LIQUEFIABLE SOIL OR SITE CLASS F.
14. FOR WALL MOUNTED ASSEMBLIES (SB6.1), STRUCTURAL ANALYSIS AND JUSTIFICATION THAT THE WALL FRAMING IS CAPABLE OF SUPPORTING THE ASSEMBLY FOR VERTICAL AND LATERAL LOADS.

TABLE A - SCOREBOARD ASSEMBLY WORKSHEET (1)

Nevco Part No.or Description	Part Height [ft.]	Part Width [ft]	Part Weight [lb]
1608 Baseball LED Scoreboad	6 foot	18	715
ADO16-3	3	16	300
3615 football	8	24	570
Total			

TOTAL ASSEMBLY DIMENSIONS & WEIGHT (2)

Total Assembly Height =	_____ ft._____in.		
Total Assembly Width =	_____ ft._____in.		
Total Assembly Weight =	_____ lbs.		
Distance from Finish Grade to Bottom of Sign =	_____ ft._____in.	Total Height = Total Assembly Height + Distance from Finish Grade to Bottom of Sign =	_____ ft._____in.

SCOREBOARD ASSEMBLY FOOTNOTES

1. Verify part number, dimensions, and weight with Nevco
2. See Step 3 of Scoreboard Assembly Worksheet instructions

CHECK ALL THAT APPLY / SHEET INDEX

CHECK ALL THAT APPLY		
■ (REQ'D)	SB0.1	COVER SHEET
■ (REQ'D)	SB0.2	STRUCTURAL NOTES
■	SB0.3	EXAMPLE DSA 103 - TESTING AND INSPECTIONS
☐	SB1.1	MARQUEE CAISSON - EMBEDDED
☐	SB1.2	MARQUEE CAISSON - BOLTED
☐	SB1.3	MARQUEE MAT FOOTING
●	SB2.1	TWO COLUMN CAISSON - EMBEDDED
☐	SB2.2	TWO COLUMN CAISSON - BOLTED
☐	SB2.3	TWO COLUMN MAT FOOTING
☐	SB3.1	THREE COLUMN CAISSON - EMBEDDED
●	SB3.2	THREE COLUMN CAISSON - BOLTED
☐	SB3.3	THREE COLUMN MAT FOOTING
☐	SB4.1	FOUR COLUMN CAISSON - EMBEDDED
☐	SB4.2	FOUR COLUMN CAISSON - BOLTED
☐	SB4.3	FOUR COLUMN MAT FOOTING
●	SB5.1	ATTACHMENT DETAILS
●	SB5.2	OPTIONAL SCOREBOARD FEATURE ATTACHMENT DETAILS
☐	SB5.3	DECORATIVE ALUMINUM TRUSS ATTACHMENT DETAILS
☐	SB5.4	DECORATIVE ALUMINUM TRUSS ATTACHMENT DETAILS & 10mm VIDEO BOARD
☐	SB6.1	INDOOR WALL MOUNTED SCOREBOARD

CODE INFORMATION

2022 CALIFORNIA BUILDING STANDARDS CODE (TITLE 24, CCR):

2022 ADMINISTRATIVE CODE, PART 1, TITLE 24 CODE OF REGULATIONS (CCR)
2022 CALIFORNIA BUILDING CODE VOLUMES 1 &2, PART 2, TITLE 24 CCR
2022 CALIFORNIA ELECTRICAL CODE, PART 3, TITLE 24 CCR
2022 CALIFORNIA MECHANICAL CODE, PART 4, TITLE 24 CCR
2022 CALIFORNIA PLUMBING CODE, PART 5, TITLE 24 CCR
2022 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 CCR
2022 CALIFORNIA FIRE CODE, PART 9, TITLE 24 CCR
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24 CCR
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 CCR

REFERENCED CODE SECTIONS FOR APPLICABLE STANDARDS:
2022 CALIFORNIA BUILDING CODE, CHAPTER 35
2022 CALIFORNIA FIRE CODE, CHAPTER 80

GENERAL NOTES AND MATERIAL SPECIFICATIONS

GENERAL REQUIREMENTS

1. THE ARCHITECT OR PROFESSIONAL ENGINEER IN GENERAL RESPONSIBLE CHARGE SHALL SIGN AND SEAL ALL DRAWINGS AND SPECIFICATIONS PER TITLE 24, PART 1, SECTIONS 4-316(E) AND 4-317 (H).
2. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA, OR CONSTRUCTION CHANGE DOCUMENTS APPROVED BY THE DIVISION OF THE STATE ARCHITECT (DSA), AS REQUIRED BY TITLE 24, PART 1, SECTION 4-338.
3. THE DISTRICT SHALL EMPLOY A CLASS 2 PROJECT INSPECTOR WHEN OVERALL STRUCTURE HEIGHT IS 35 FEET OR GREATER, OTHERWISE A CLASS 3 PROJECT INSPECTOR MAY BE USED. THE PROJECT INSPECTOR SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK , AND SHALL SUBMIT VERIFIED REPORTS ON A DSA-6 FORM. THE DUTIES OF THE PROJECT INSPECTION ARE DEFINED IN TITLE 24, PART 1, SECTION 4-342.
4. ALL SCOREBOARD CONTROLS SHALL BE FULLY ACCESSIBLE VIA WIRELESS CONTROL OR COMPLETE DESIGN SHALL BE DEMONSTRATED IN THE SITE-SPECIFIC APPLICATION.
5. ALL ASSEMBLIES SHALL HAVE ELECTRICAL DISCONNECT PER CEC 600.6 AND BE ELECTRICALLY GROUNDED PER CEC 600.7, SEE DETAIL B/SB5.1
6. IN FLOOD ZONES, LOCATION OF ELECTRICAL ELEMENTS SHALL CONFORM TO ASCE 24, SECTION 7.2 PER DSA PR-14-01 SECTION 1.2.1.
7. SEE PAGE, SB0.2, FOR ALL MATERIAL SPECIFICATIONS AND NOTES.
8. PROJECT DESIGN PROFESSIONAL OF RECORD IS RESPONSIBLE FOR PREPARATION OF THE PROJECT SPECIFIC DSA 103 AND IS RESPONSIBLE FOR ALL SHOP DRAWING AND SUBMITTAL REVIEWS. SEE SB0.3 FOR EXAMPLE DSA 103

SSG structural engineers

REGISTERED PROFESSIONAL ENGINEER — BRIAN C. BELT — No. 5405 — STRUCTURAL — STATE OF CALIFORNIA

08.09.2023

DSA SEOR SEAL

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301 East Harris Avenue, Greenville, Illinois 62246
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APPROVED
DIV. OF THE STATE ARCHITECT
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REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CO ☐
DATE: 09/20/2023

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CODE: 2022

A separate project application for construction is required.

COVER SHEET

SHEET INFORMATION

DATE 08.09.2023
DRAWN JMK
CHECKED MEP
DSA JOB # S23109
SHEET SB0.1

LIONÄKIS
2025 Nineteenth Street
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CONSULTANT

SEAL

LICENSED ARCHITECT — BRIAN BELT — C28712 — REN 01-31-25 — STATE OF CALIFORNIA

PROJECT
MCCLATCHY HIGH SCHOOL
ATHLETIC FIELD RENOVATION

3066 FREEPORT BLVD.
SACRAMENTO, CA 95818

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

425 1ST AVE, SACRAMENTO, CA 95818.

ISSUED

MARK	DATE	DESCRIPTION
	12/7/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

LIONAKIS PROJECT NO:	023040
DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	
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TITLE
COVER SHEET

SHEET
SB0.1

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STRUCTURAL NOTES

GENERAL NOTES

1. The following notes, typical details and schedules shall apply to all phases of this project unless otherwise shown or noted.
2. Specific notes and details shall take precedence over general notes and typical details.
3. All materials and workmanship shall conform to the minimum standards of the 2022 edition Title 24 of the California Building Code (CBC) and such other regulating agencies exercising authority over any portion of the work. The contractor shall have a current copy of the CBC on the job site.
4. The "Contract or Construction Documents" shall consist of these notes, details, schedules, plans, and drawings.
5. All specifications, including but not limited to materials and products, shall be those put forth in the "Contract or Construction Documents". No substitutions shall be permitted to be used or assumed to be used in the bidding or construction process without written approval by the Structural Engineer of Record.
6. The contractor shall examine the "Contract or Construction Documents" and shall notify the Architect or Structural Engineer of Record of any discrepancies he may find before proceeding with the work.
7. All information on existing conditions shown on drawings are based on best present knowledge available, but without guarantee of accuracy. The Contractor shall verify and be responsible for all dimensions and conditions at the site and shall notify the Architect or Structural Engineer of Record of any discrepancies between actual site conditions and information shown on or in the "Contract or Construction Documents" before proceeding with work.
8. The Contractor shall immediately notify the Architect or Structural Engineer of Record of any condition which in his opinion might endanger the stability of the structure or cause distress of the structure.
9. All work shall conform to the best practice prevailing in the various trades comprising work. The Contractor shall be responsible for coordinating the work of all trades.
10. These "Contract or Construction Documents" represent the finished structure, and do not indicate the method of construction. The Contractor shall supervise and direct the work and shall be solely responsible for construction means, methods, techniques, sequences and procedures.
11. Inspection and approval for fabricator's shops used for fabrication of structural load bearing members, components, materials or assemblies shall conform to CBC Section 1704A.2.5.
    - A. Labeling (as required or specified) shall be provided in accordance with CBC Section 1703A.5.
    - B. Evaluation and follow-up inspection services (as required or specified), shall conform to CBC Section 1703A.6.
12. The Contractor shall provide temporary bracing and shoring for all structural members as required for structural stability of the structure during all phases of construction.
13. The Contractor shall take all steps necessary to ensure proper alignment of the structure after the installation of all structural and finish materials. This shall include any necessary preloading of the structure to determine final position of the completed work.
14. Observation visits to the project site by field representatives of Architect and/or Structural Engineer of Record (support services) shall not include inspections of safety or protective measures, nor construction procedures, techniques or methods. Any support services performed by Architect or Structural Engineer of Record during any phase of construction, shall be distinguished from continuous and detailed inspection services (as required by any regulating governmental agency, e.g. the Authority Having Jurisdiction) provided by others. these support services, whether of material or work, are performed solely for the purpose of assisting in quality control and in achieving conformance with contract documents, but do not guarantee Contractor's performance and shall not be construed as supervision of construction.
15. These notes, details, drawings and specifications (Contract or Construction Documents) do not carry necessary provisions for construction safety. These documents and all phases of construction hereby contemplated are to be governed, at all times, by applicable provisions of the current California Occupational Safety and Health Act.
16. Where any conflict occurs between the requirements of federal, state and local laws, codes, ordinances, rules and regulations, the most stringent shall govern.
17. Written dimensions shall have precedence over scaled dimensions.
18. Drawings (notes, schedules, details and plans) shall have precedence over Structural Calculations.
19. In the event that certain features of the construction are not fully shown on the drawings or called for in the General Notes or Specifications, then their construction shall be of the same character as for similar conditions that are shown or called for.
20. ASTM designation and all standards refer to the latest amendments.
21. These structural "Contract or Construction Documents" shall not be modified without prior written approval of the Structural Engineer of Record.
22. Only structural working drawings approved by the Division of the State Architectare permitted to be used for construction on this project. All other drawings or documents are obsolete and are not permitted on the job site, nor shall they be used for any construction purposes. Contractors using unapproved drawings or documents are solely responsible for all work not performed in accordance with the "approved" drawings.
23. A Division of the State Architect certified project inspector employed by the District (Owner) and approved by the Division of the State Architect shall provide continuous inspection of the work. The duties of the inspector are defined in Section 4-342, Part 1, Title 24 California Code of Regulations.

FOUNDATION NOTES

1. Basis: See Structural Design Values Chart, Sheet SB0.1 Table B
2. Unexpected soil conditions: Allowable values and foundation design are based upon the minimum values provided in Table 1806A.2 of the 2022 California Building Code. See SB0.1 for values
3. Excavate to required depths and dimensions (as indicated in drawings), cut square and smooth with firm level bottoms. Care shall be taken not to over-excavate foundation at lower elevation and prevent disturbing of soils around higher elevation.
4. Footings shall be poured in neat excavations, without side forms whenever possible.
5. Carry all foundations to required depths into compacted fill or natural soil (as per Structural Plans and Details).
6. All foundation excavations shall be inspected and approved by the Inspector of Record or Geotechnical Engineer prior to forming and placement of reinforcing or concrete.
7. Foundations shall not be poured until all required reinforcing steel, sleeves, inserts, conduits, pipes, etc. and formwork is properly placed and inspected by the Authority having Jurisdiction.
8. The sides and bottoms of excavations which are to have concrete contact must be moistened several times just prior to pouring upon them.
9. De-water footings, as required, to maintain dry working conditions.

REINFORCING STEEL

1. All reinforcing steel shall be deformed intermediate grade bars conforming to ASTM A615, Grade 60 (f_y = 60 ksi) unless noted otherwise.
2. Reinforcing steel shall not be welded, unless specifically noted otherwise.
3. To hold reinforcing bars in their true position and prevent displacement, standard tie and anchorage devices must be provided. Placing of reinforcement shall conform to ACI 318-19 Section 26.6.2.
4. Shop drawings for fabrication of any reinforcing steel shall be approved by Contractor and submitted to Project Specific Architect or Project Specific Structural Engineer of Record, for their review, prior to fabrication.
5. Refer to typical details for minimum splice length and minimum radius of bend of reinforcing steel.
6. All reinforcing steel splices shall be staggered 24", unless specifically noted or detailed otherwise.
7. All reinforcing bar bends shall be made cold.
8. Fabrication, erection and placement of reinforcing steel shall conform to Concrete Reinforcing Steel Institute of Standard Practice.
9. Reinforcing steel shall be clean of rust, grease or other material likely to impair bond.

CONCRETE

1. All concrete shall have a minimum ultimate compressive strength (f'_c) as outlined below at 28 days. All concrete shall be regular weight (unless specifically noted otherwise).
    - A. Concrete for footings: 4,500 psi w/c = 0.45 max.
2. Maximum Fly Ash content shall be 15%, by weight, of total cementitious materials and shall conform to ASTM C618.
3. All concrete work shall comply with CBC Chapter 19A and ACI 318-19 and latest edition of ACI Manual of Concrete Practice.
4. Special Inspection (as required or specified) shall conform to CBC Chapter 17A.
5. Cement shall be portland cement Type V and shall conform to ASTM C150.
6. Aggregates shall conform to ASTM C33, provide aggregates from a single source.
7. Water shall conform to ASTM C94 and be potable.
8. Where not specifically detailed, the minimum concrete cover on reinforcing steel shall be:
    - A. Concrete cast against and permanently exposed to earth or weather: 3"
10. All reinforcing steel, anchor bolts, dowels, inserts and any other hardware to be set in concrete shall be well secured in position prior to pouring of concrete.
11. Vibrate all concrete as it is placed, with a mechanical vibrator operated by experienced personnel. The vibrator shall be used to consolidate the concrete, not transport it. Reinforcing and forms shall not be vibrated.
12. Formwork design and removal shall conform to ACI 318-19 Section 26.11. Remove forms in accordance with the following minimum schedule:
    - A. Side forms of footings: Minimum 48 hours
    - B. Column and pier forms: 72 hours & 70% of design strength
15. Concrete shall not free fall more than six feet. Use tremie, pump or other approved methods.
16. Concrete shall be maintained in a moist condition for a minimum of 5 days after placement.
17. The Contractor may use concrete admixtures as a construction means and methods to execute "Contract or Construction Documents". Use of admixture is solely the responsibility of the Contractor.
18. Mix designs shall be prepared by an approved testing laboratory, signed by a licensed engineer and shall be submitted to the Project Specific Design Professional of Record for approval. SSG is not responsible for review or approval of site specific concrete mix design.
19. Only one grade of concrete shall be allowed on project site at any one time
20. Concrete strength shall be verified by standard cylinder tests (in accordance with CBC Section 1905A.1.16) made by an approved testing laboratory.
21. Concrete placed when the air temperature has fallen to, or is expected to fall below 40° shall conform to ACI 318-19 Section 26.5.4, and ACI 306R-16.
22. Concrete placed during hot weather shall conform to ACI 318-19 Section 26.5.5, and ACI 305R-14.
23. Conduits and sleeves placed within structural concrete shall not be tied directly to structural reinforcement.
    - A. 1" concrete cover shall be maintained around all reinforcement.
24. No stakes shall be permitted within the footing section.
25. Concrete shall reach minimum 75% design strength or cure for 3 days minimum prior to installation of steel columns and scoreboard components.

DRILLED CAISSON/PIER AND GRADE BEAM NOTES

1. Excavations for drilled caissons/pier shall be performed in compliance with local grading codes and ordinances as well as CBC Chapters 18A and 33A.
2. Provide Special Inspection in accordance with CBC Section 1705A.8 and Table 1705A.8.
3. Excavations for all drilled caissons/piers shall be approved by the Project Geotechnical Engineer or Project Special Inspector prior to placing of concrete.
4. Reinforcement for drilled caissons/pier shall be approved by the Structural Engineer of Record prior to placing in caisson/pier excavation.
5. De-water caisson/pier footings and building excavation as required to maintain dry working conditions.
6. Caisson/piers are to be poured within 24 hours after completion of drilling operation. Shoring requirements shall be determined by contractor. Contractor shall be provide fall protection and safety barriers at and near the drilled hole as required by OSHA and the Authority Having Jurisdiction.
7. The Contractor shall be responsible for all shoring, bracing, etc. necessary to support cut and/or fill banks, and existing structures during excavation, and the forming and placement of concrete.
8. Bottom of caissons/piers shall be thoroughly cleaned prior to placement of concrete.

STRUCTURAL STEEL AND WELDING

1. All structural steel construction shall conform to AISC 360-16 and AISC 341-16.
    - A. Fabrication of all structural steel shall be done in the shop of an approved fabricator. Inspection and approval for fabricator's shops used for fabrication of structural load bearing members, components, materials or assemblies shall conform to CBC Section 1704A.2.5.
2. All structural steel shall conform to the following specifications:
    - A. Angles, channels, plates, bars, rounds, and other miscellaneous shapes: Shall conform to ASTM A36 and shall have a minimum yield stress (F_y) of 36 ksi.
    - B. Wide-flange shapes: Shall conform to ASTM A992 and shall have a minimum yield stress (F_y) of 50 ksi.
    - C. Structural tubes: Shall be ASTM A500, Grade C, and shall have a min. yield stress (F_y) of 50ksi.
3. All structural steel fasteners shall conform to the following specifications:
    - A. Bolts shall conform to ASTM A307
    - B. Anchor Bolts shall conform to ASTM F1554, Grade as noted in drawings
    - C. Carbon steel nuts shall conform to ASTM A563
    - D. Stainless steel nuts shall conform to ASTM F594
    - E. Washers shall conform to ASTM F436
4. Special Inspection shall be provided for all structural steel and welding, in accordance with CBC Chapter 17A.
5. All structural steel shall be fabricated, erected and welded in accordance with AISC Specifications for Structural Steel Buildings (AISC 360-16) and Code of Standard Practice for Steel Buildings and Bridges (AISC 303-16).
6. All welding shall be done by qualified and certified welders.
7. Shop drawings for the fabrication of any structural steel shall be approved by the Contractor and submitted to Project Specific Architect or Project Specific Structural Engineer of Record for their review, prior to fabrication.
8. No holes other than those specifically detailed shall be allowed through structural steel members. Burning of holes is not permitted.
9. All welding shall conform to 'AWS D1.1' specifications for welding. (E-70XX Electrodes).
10. Where fillet weld size is not indicated, use 'AWS' minimum size based on the thickness of the thinner part being welded, as specified in AISC Specifications for Structural Steel Buildings (AISC 360-10), Section J2.2.
11. All butt welds to be complete joint penetration, unless specifically noted otherwise.
12. Welder qualification requirements, welding procedure and welding electrodes for all structural steel (except structural sheet steel, see steel decking) shall conform to CBC Sections 1705A.2.1 and 2204A.1.
13. Provide 3" minimum concrete cover around all structural steel below grade.
14. Structural steel embedded into concrete shall be uncoated.
15. Structural steel shall be hot-dip galvanized (minimum ASTM A123 or A153 Class D) or painted with zinc-rich primer, undercoat, and finish coat; or equivalent paint system.
16. All exposed steel fasteners, including cast-in-place anchor bolts/rods, shall be stainless steel (Type 304 minimum), hot-dip galvanized (ASTM A153, Class D minimum or ASTM F2329), or protected with corrosion-preventive coating that demonstrated no more than 2% of red rust in minimum 1,000 hours of exposure in salt spray test per ASTM B117. Zinc plated fasteners do not comply with this requirement.

ABBREVIATIONS

A.B.	Anchor Bolt
ABV.	Above
ACI	American Concrete Institute
ADJ.	Adjacent
AHJ	Division of the State Architect
AISC	American Institute of Steel Construction
AOR	Architect of Record
APPROX.	Approximate(ly)
ASCE	American Society of Civil Engineers
ARCH.	Architect, Architecture
ASTM	American Society of Testing and Materials
ATR	All Thread Rod
AWS	American Welding Society
B.O.	Bottom of ______
BOT.	Bottom
b/t	Between
CAC	California Administrative Code
CBC	California Building Code
CIP	Cast-in-place
CJP	Complete Joint Penetration
℄	Centerline
CLR.	Clear
COL.	Column
CONC.	Concrete
CONN.	Connection
CONST.	Construction
CONT.	Continue, Continuous
Ø	Diameter
DBL.	Double
DET.	Detail
DL	Dead Load
DSA	Division of State Architect
DWGS.	Drawings
EA.	Each
E.F.	Each Face
ELEC.	Electric, Electrical
ELEV.	Elevation
EMBED.	Embedded, Embedment
EOR	Engineer of Record
EQ.	Equal
EQUIP.	Equipment
E.S.	Each Side
E.W.	Each Way
EXT.	Exterior
FAB.	Fabricated
FDN.	Foundation
F.G.	Finish Grade
F.O.	Face of ______
FRMG.	Framing
FT.	Foot,Feet
FTG.	Footing
GA.	Gauge
GALV.	Galvanized
GEOR	Geotechnical Engineer of Record
HORIZ.	Horizontal
HSS	Hollow Steel Section
HT.	Height
ICC	International Building Code
ICC	International Code Council
ID	Inside Diameter
IN.	Inch, Inches
INT.	Interior
ksi	Kips per Square Inch
LL	Live Load
MAX.	Maximum
MB	Machine Bolt
MFR.	Manufactured, Manufacturer
MIN.	Minimum
MPH	Miles per Hour
N/R	Not Required
N.T.S.	Not to Scale
o.c.	On Center
o/	Over
OD	Outside Diameter
PEN.	Penetration
PL.	Plate
PJP	Partial Joint Penetration
psi	Pounds per Square Inch
PSF	Pounds per Square Foot
REBAR	Reinforcing Bar
REINF.	Reinforcement
REQ'D	Required
S.F.	Square Feet
SHT.	Sheet
SIM.	Similar
SMS	Sheet Metal Screw
SQ.	Square
STAGG'D	Staggered
STD.	Standard
STL.	Steel
SEOR	Structural Engineer of Record
T&B	Top and bottom
THR'D	Threaded
T.O.	Top of ______
TYP.	Typical
U.N.O.	Unless Noted Otherwise
VERT.	Vertical
VIF	Verify in Field
w/	With
w/c	Water/Cement Ratio
WSS	Welded Steel Stud
WT.	Weight

POST INSTALLED ANCHOR & TESTING

1. All post-installed anchors are to be tension tested with the exception that torque testing is allowed if the anchors are specifically designed as torque controlled
2. Test quantity of post-installed anchors as noted below:

Application	Quantity
Non-structural (Equipment Anchorage, etc.)	50%
Structural	100%

3. Apply proof test loads to anchors without removing the nut if possible. if not, remove nut and install a threaded coupler to the same tightness of the original nut using a torque wrench and apply load.
4. All tests shall be performed in the presence of the inspector.
5. Reaction loads from test fixtures may be applied close to the anchor being tested, provided the anchor is not restrained from withdrawing or restricted from a concrete shear cone type failure mechanism.
6. Test equipment is to be calibrated by an approved testing laboratory in accordance with standard recognized procedures.
7. The following criteria apply for the acceptance of installed anchors:
    - A. Hydraulic ram method: anchors tested with a hydraulic jack or spring loaded devices shall maintain the test load for a minimum of 15 seconds and shall exhibit no discernable movement during the tension test, e.g. as evidenced by loosening of the washer under the nut.
    - B. Torque wrench method: anchors tested with a calibrated torque wrench must attain the manufacturer recommended torque within ½ turn of the nut.
      Exceptions:
        - Wedge or sleeve type: one-quarter turn of the nut from 3/8" sleeve anchor only.
        - Threaded type: one-quarter turn of the screw after initial seating of the screw head.
8. If any anchor fails testing, test all anchors of the same type not previously tested until twenty consecutive anchors pass, then resume the initial test frequency. if the anchors are used for the support and bracing of non-structural components (pipe, duct or conduit), the twenty shall be only those anchors installed by the same trade.
9. Test loads per ICC ESR, IAPMO, OR UES report
10. When installing drilled-in anchors and/or powder driven pins in existing non-prestressed reinforced concrete, use care and caution to avoid cutting or damaging the existing reinforcing bars. When installing them into existing prestressed concrete (pre- or post-tensioned) locate the prestressed tendons by using a non-destructive method prior to installation. Exercise extreme care and caution to avoid cutting or damaging the tendons during installation. Maintain a minimum clearance of one inch between the reinforcement and the drilled-in anchor and/or pin.

ANCHOR TORQUE TEST VALUES

Anchor Diameter	CONCRETE		MASONRY	
	HILTI KB TZ 2	SIMPSON STRONG BOLT 2	HILTI KB TZ 2	SIMPSON STRONG BOLT 2
	ESR-4266	ESR-3037	ESR-4561	ER-240
⅜"	30 ft-lb	30 ft-lb	15 ft-lb	20 ft-lb
½"	50 ft-lb	60 ft-lb	25 ft-lb	35 ft-lb
⅝"	40 ft-lb	90 ft-lb	30 ft-lb	55 ft-lb
¾"	110 ft-lb	150 ft-lb	50 ft-lb	100 ft-lb

If the manufacturer's recommended installation torque is less than the test torque noted in the table, the manufacturer's recommended installation torque should be used in lieu of the tabulated values.

See manufacturer's ESR report for Maximum Impact Wrench Torque Rating.

SSG structural engineers

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CONSULTANT

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EXAMPLE DSA 103 - TESTING AND INSPECTIONS

NOTE: THE DSA 103 SHOWN INCLUDES MINIMUM SPECIAL INSPECTION REQUIREMENTS AND IS PROVIDED AS EXAMPLE. ADDITIONAL TESTING AND INSPECTIONS MAY BE REQUIRED BEYOND THE SCOPE OF THE SCOREBOARD. A FINAL DSA 103 FORM SHALL BE SUBMITTED BY THE DESIGN PROFESSIONAL OF RECORD AS PART OF THE SITE SPECIFIC SUBMITTAL REQUIREMENTS. THE DESIGN PROFESSIONAL OF RECORD IS RESPONSIBLE FOR REVIEWING PROJECT SPECIFIC SPECIAL INSPECTION REPORTS. SSG STRUCTURAL ENGINEERS OR NEVCO ARE NOT RESPONSIBLE FOR PROVIDING THE PROJECT DSA 103 OR REVIEWING SPECIAL INSPECTION REPORTS.
DSA 103 CAN BE FOUND AT:https://forms.dgs.ca.gov/content/forms/af/dgs/dsa/form-103/public/dsa-form-103-22.html

SSG
structural engineers

PC SEOR SEAL
No. 5405
DATE SIGNED:
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EXAMPLE DSA 103 -
TESTING AND INSPECTIONS

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BRIAN BELL
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REN. 01-31-25

PROJECT
MCCLATCHY HIGH SCHOOL
ATHLETIC FIELD RENOVATION

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EXAMPLE DSA 103 -
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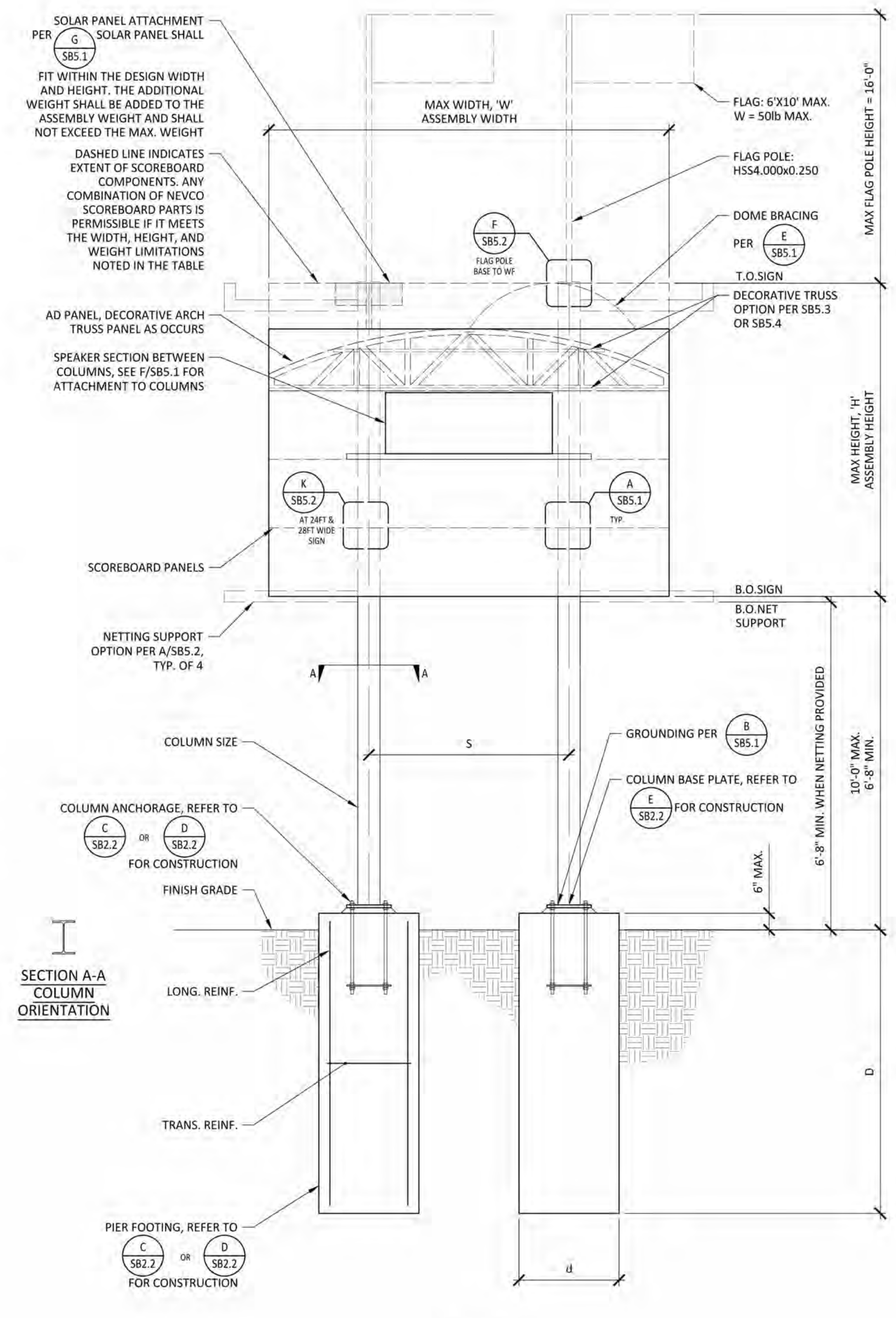
TWO COLUMN ASSEMBLY

ASSEMBLY CRITERIA							PIER FOOTING CRITERIA (2)				BASE PLATE				ANCHOR RODS				
ASSEMBLY WIDTH, W	CHECK OPTION THIS APPLICATION	MAX. WEIGHT	ASSEMBLY HEIGHT, H	COLUMN SPACING, S	COLUMN SIZE	COLUMN SIZE, W/O FLAG	PIER DIAMETER, d	DEPTH, D	LONG. REINF.	TRANS. REINF. (1)	THICKNESS, t	WIDTH, B	LENGTH, L	WELD	QUANTITY & DIAMETER	GRADE	EDGE DISTANCE, X	GROUT HEIGHT	EMBED
8'-0"		770 lbs.	≤ 8'-0"	6'-0"	W8x24	W8x24	36"Ø	7'-0"	8 - #6	#4 @ 4-1/2" o.c.	1"	20"	20"	5/16	(4) - 1-1/8"Ø	F1554 - GR.36	2-1/4"	2"	48"
		1,160 lbs.	≤ 12'-0"	6'-0"	W10x33	W10x33	36"Ø	8'-0"	8 - #6	#4 @ 4-1/2" o.c.	1-1/8"	20"	20"	5/16	(4) - 1-1/8"Ø	F1554 - GR.36	2-1/4"	2"	48"
		1,540 lbs.	≤ 16'-0"	6'-0"	W12x40	W12x40	36"Ø	9'-0"	8 - #6	#4 @ 4-1/2" o.c.	1-1/8"	20"	20"	5/16	(4) - 1-1/8"Ø	F1554 - GR.55	2-1/4"	2"	48"
		1,920 lbs.	≤ 20'-0"	6'-0"	W14x61	W14x61	42"Ø	9'-9"	8- #8	#4 @ 6" o.c.	1-1/4"	24"	24"	3/8	(4) - 1-1/4"Ø	F1554 - GR.55	2-1/2"	2"	64"
9'-0"		870 lbs.	≤ 8'-0"	8'-0"	W8x24	W8x24	36"Ø	7'-3"	8 - #6	#4 @ 4-1/2" o.c.	1"	20"	20"	5/16	(4) - 1-1/8"Ø	F1554 - GR.36	2-1/4"	2"	48"
		1,300 lbs.	≤ 12'-0"	8'-0"	W10x33	W10x33	36"Ø	8'-3"	8 - #6	#4 @ 4-1/2" o.c.	1-1/8"	20"	20"	5/16	(4) - 1-1/8"Ø	F1554 - GR.36	2-1/4"	2"	48"
		1,730 lbs.	≤ 16'-0"	8'-0"	W12x45	W12x40	36"Ø	9'-3"	8 - #6	#4 @ 4-1/2" o.c.	1-1/8"	20"	20"	5/16	(4) - 1-1/8"Ø	F1554 - GR.55	2-1/4"	2"	48"
		2,160 lbs.	≤ 20'-0"	8'-0"	W14x61	W14x61	42"Ø	10'-0"	8- #8	#4 @ 6" o.c.	1-1/4"	24"	24"	3/8	(4) - 1-1/4"Ø	F1554 - GR.55	2-1/2"	2"	64"
10'-0"		960 lbs.	≤ 8'-0"	8'-0"	W8x24	W8x24	36"Ø	7'-6"	8 - #6	#4 @ 4-1/2" o.c.	1"	20"	20"	5/16	(4) - 1-1/8"Ø	F1554 - GR.36	2-1/4"	2"	48"
		1,440 lbs.	≤ 12'-0"	8'-0"	W10x33	W10x33	36"Ø	8'-6"	8 - #6	#4 @ 4-1/2" o.c.	1-1/8"	20"	20"	5/16	(4) - 1-1/8"Ø	F1554 - GR.36	2-1/4"	2"	48"
		1,920 lbs.	≤ 16'-0"	8'-0"	W14x48	W14x48	42"Ø	9'-9"	8 - #6	#4 @ 4-1/2" o.c.	1-1/8"	24"	24"	5/16	(4) - 1-1/4"Ø	F1554 - GR.105	2-1/2"	2"	48"
		2,400 lbs.	≤ 20'-0"	8'-0"	W14x61	W14x61	48"Ø	9'-9"	8 - #8	#4 @ 6" o.c.	1-1/4"	24"	24"	3/8	(4) - 1-1/4"Ø	F1554 - GR.105	2-1/2"	2"	64"
12'-0"		1,160 lbs.	≤ 8'-0"	8'-0"	W10x33	W10x30	36"Ø	8'-0"	8 - #6	#4 @ 4-1/2" o.c.	1"	20"	20"	5/16	(4) - 1-1/8"Ø	F1554 - GR.36	2-1/4"	2"	48"
		1,730 lbs.	≤ 12'-0"	8'-0"	W14x43	W14x43	42"Ø	9'-3"	8 - #6	#4 @ 4-1/2" o.c.	1-1/8"	24"	24"	5/16	(4) - 1-1/4"Ø	F1554 - GR.55	2-1/2"	2"	48"
		2,310 lbs.	≤ 16'-0"	8'-0"	W14x61	W14x53	42"Ø	10'-3"	8 - #8	#4 @ 4-1/2" o.c.	1-1/8"	24"	24"	3/8	(6) - 1-1/4"Ø	F1554 - GR.55	2-1/2"	2"	64"
		2,880 lbs.	≤ 20'-0"	8'-0"	W14x61	W14x61	48"Ø	10'-3"	8- #8	#4 @ 6" o.c.	1-3/8"	24"	24"	7/16	(6) - 1-1/4"Ø	F1554 - GR.55	2-1/2"	2"	64"
16'-0"		1,540 lbs.	≤ 8'-0"	8'-0"	W10x33	W10x33	36"Ø	8'-9"	8 - #6	#4 @ 4-1/2" o.c.	1-1/8"	20"	20"	5/16	(4) - 1-1/8"Ø	F1554 - GR.55	2-1/4"	2"	48"
		2,310 lbs.	≤ 12'-0"	8'-0"	W12x45	W12x40	36"Ø	10'-3"	8 - #6	#4 @ 4-1/2" o.c.	1-1/4"	24"	24"	3/8	(6) - 1-1/4"Ø	F1554 - GR.55	2-1/2"	2"	48"
		3,080 lbs.	≤ 16'-0"	8'-0"	W14x61	W14x61	48"Ø	12'-0"	8 - #8	#4 @ 6" o.c.	1-3/8"	24"	24"	7/16	(6) - 1-1/4"Ø	F1554 - GR.55	2-1/2"	2"	64"
		3,840 lbs.	≤ 20'-0"	8'-0"	W16x77	W16x67	48"Ø	12'-0"	12- #8	#4 @ 6" o.c.	1-1/2"	24"	24"	1/2	(6) - 1-1/4"Ø	F1554 - GR.105	2-1/2"	2"	64"
18'-0"	X	1,730 lbs.	≤ 8'-0"	10'-0"	W12x35	W12x35	36"Ø	9'-0"	8 - #6	#4 @ 4-1/2" o.c.	1-1/8"	20"	20"	3/8	(4) - 1-1/8"Ø	F1554 - GR.36	2-1/4"	2"	48"
		2,600 lbs.	≤ 12'-0"	10'-0"	W14x48	W14x43	42"Ø	10'-0"	8 - #8	#4 @ 6" o.c.	1-1/4"	24"	24"	3/8	(4) - 1-1/4"Ø	F1554 - GR.55	2-1/2"	2"	64"
		3,460 lbs.	≤ 16'-0"	10'-0"	W14x61	W14x61	48"Ø	10'-9"	8 - #8	#4 @ 6" o.c.	1-1/4"	24"	24"	7/16	(6) - 1-1/4"Ø	F1554 - GR.55	2-1/2"	2"	64"
		4,320 lbs.	≤ 20'-0"	10'-0"	W16x77	W16x77	48"Ø	13'-0"	12- #8	#4 @ 6" o.c.	1-3/4"	24"	30"	9/16	(6) - 1-1/2"Ø	F1554 - GR.55	3"	2"	64"
24'-0"		2,310 lbs.	≤ 8'-0"	14'-0"	W14x43	W14x43	36"Ø	9'-9"	8 - #6	#4 @ 4-1/2" o.c.	1-1/8"	24"	24"	3/8	(4) - 1-1/4"Ø	F1554 - GR.55	2-1/2"	2"	48"
		3,460 lbs.	≤ 12'-0"	14'-0"	W14x61	W14x61	36"Ø	11'-6"	8 - #8	#4 @ 6" o.c.	1-3/8"	24"	24"	3/8	(6) - 1-1/4"Ø	F1554 - GR.55	2-1/2"	2"	64"
		4,610 lbs.	≤ 16'-0"	14'-0"	W16x67	W16x67	48"Ø	11'-9"	12 - #8	#4 @ 6" o.c.	1-3/4"	24"	30"	7/16	(4) - 1-1/2"Ø	F1554 - GR.55	3"	2"	64"
		5,760 lbs.	≤ 20'-0"	14'-0"	W18x86	W18x86	48"Ø	13'-3"	12 - #8	#4 @ 6" o.c.	1-3/4"	24"	30"	9/16	(6) - 1-1/2"Ø	F1554 - GR.55	3"	2"	64"
		6,920 lbs.	≤ 24'-0"	14'-0"	W18x130	W18x119	48"Ø	14'-6"	12 - #8	#4 @ 6" o.c.	2"	24"	30"	CJP	(6) - 1-1/2"Ø	F1554 - GR.105	3"	2"	64"
		8,070 lbs.	≤ 28'-0"	14'-0"	W18x158	W18x143	54"Ø	16'-0"	12 - #8	#4 @ 6"o.c.	2-1/2"	24"	36"	CJP	(6) - 2"Ø	F1554 - GR.105	4"	2"	64"
28'-0"		2,690 lbs.	≤ 8'-0"	14'-0"	W14x43	W14x43	42"Ø	10'-0"	8 - #7	#4 @ 4-1/2" o.c.	1-1/4"	24"	24"	3/8	(4) - 1-1/4"Ø	F1554 - GR.55	2-1/2"	2"	64"
		4,040 lbs.	≤ 12'-0"	14'-0"	W14x61	W14x61	48"Ø	11'-3"	8 - #8	#4 @ 6" o.c.	1-3/4"	24"	30"	3/8	(4) - 1-1/2"Ø	F1554 - GR.55	3"	2"	64"
		5,380 lbs.	≤ 16'-0"	14'-0"	W16x77	W16x67	48"Ø	12'-9"	12 - #8	#4 @ 6" o.c.	2"	24"	30"	1/2	(6) - 1-1/2"Ø	F1554 - GR.55	3"	2"	64"
		6,720 lbs.	≤ 20'-0"	14'-0"	W18x97	W18x97	48"Ø	14'-3"	12 - #8	#4 @ 6" o.c.	2"	24"	30"	CJP	(6) - 1-1/2"Ø	F1554 - GR.105	3"	2"	64"
		8,070 lbs.	≤ 24'-0"	14'-0"	W18x143	W18x143	54"Ø	15'-9"	12 - #8	#4 @ 6" o.c.	2-1/2"	24"	36"	CJP	(6) - 2"Ø	F1554 - GR.105	4"	2-1/2"	64"
		9,410 lbs.	≤ 28'-0"	14'-0"	W18x175	W18x175	54"Ø	16'-6"	14 - #8	#4 @ 6"o.c.	3"	24"	36"	CJP	(6) - 2"Ø	F1554 -GR.105	4"	2-1/2"	64"

NOTES: (#)
1. CONTRACTOR OPTION TO PROVIDE TIES OR SPIRAL REINFORCING. SEE C/SB2.2 FOR TIE OPTION, SEE D/SB2.2 FOR SPIRAL OPTION
2. CONTRACTOR IS RESPONSIBLE FOR CASING PIERS AND DRILLING SEQUENCING TO PROTECT PIER EXCAVATION

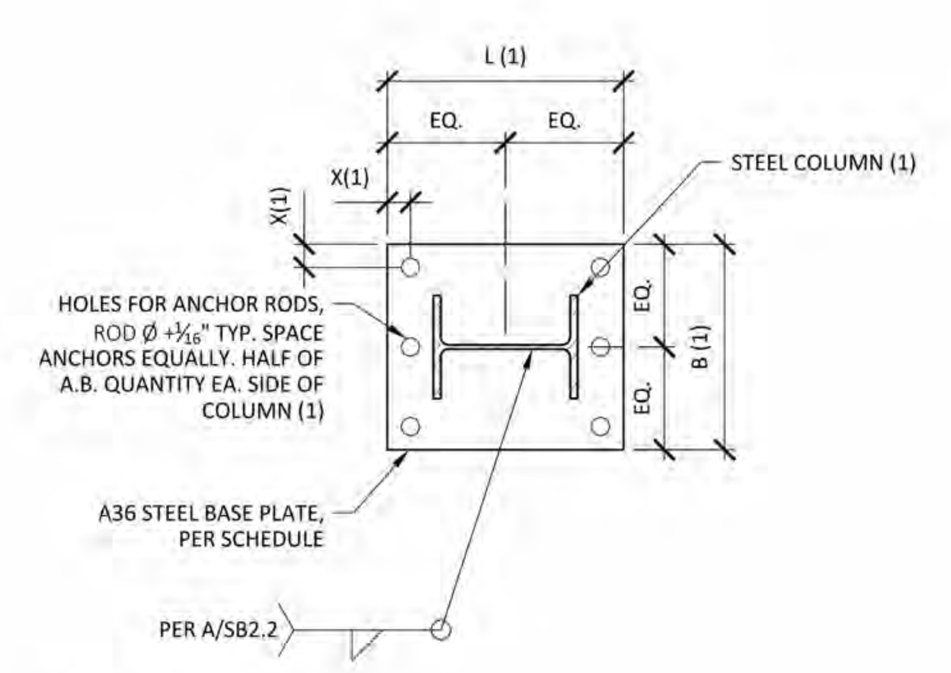


SECTION A-A COLUMN ORIENTATION

ELEVATION

TWO COLUMN SCOREBOARD INSTALLATION

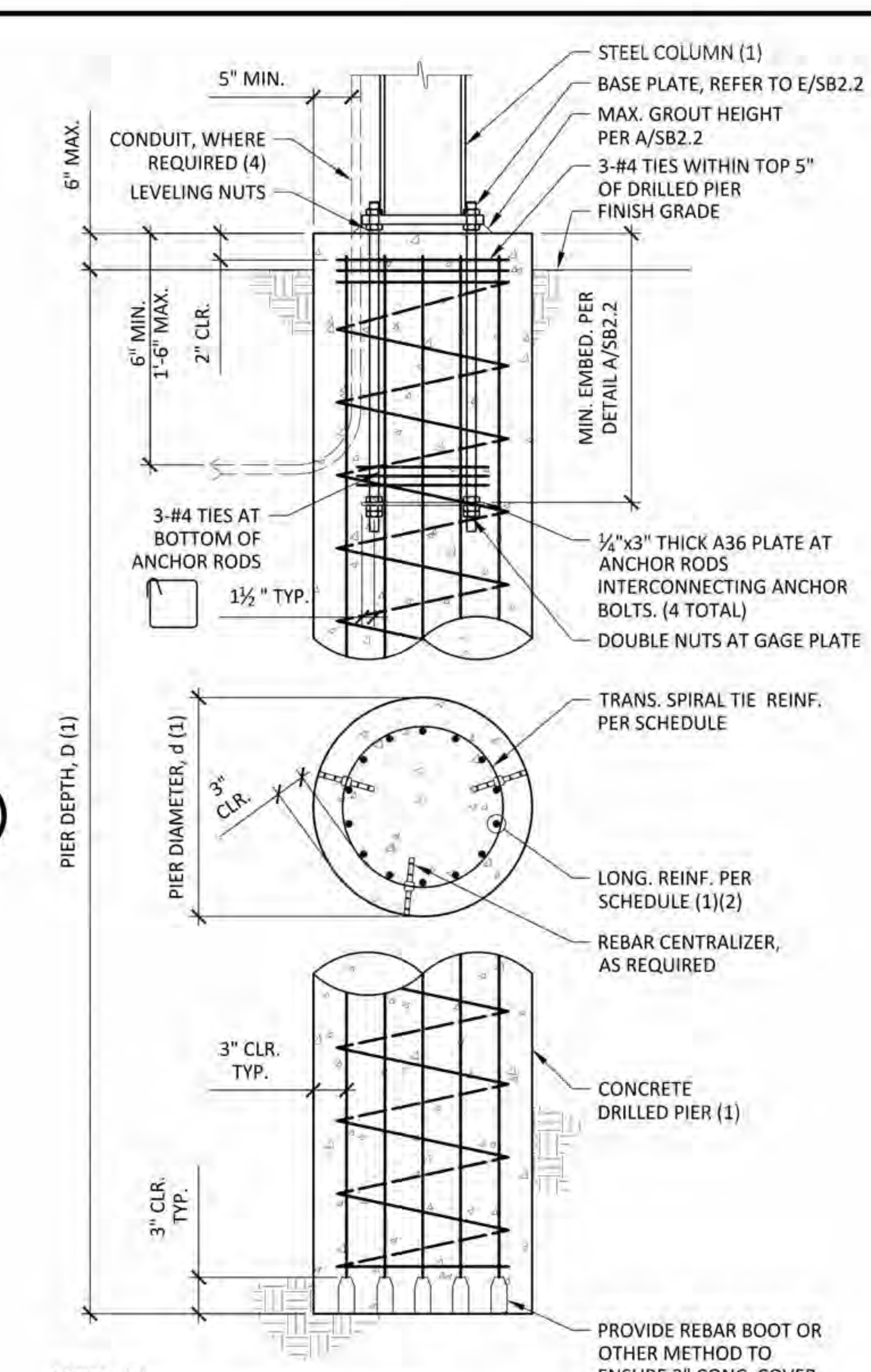
N.T.S. (A)



NOTES: (#)
1. SEE SCOREBOARD ELEVATION, A/SB2.2

BASE PLATE

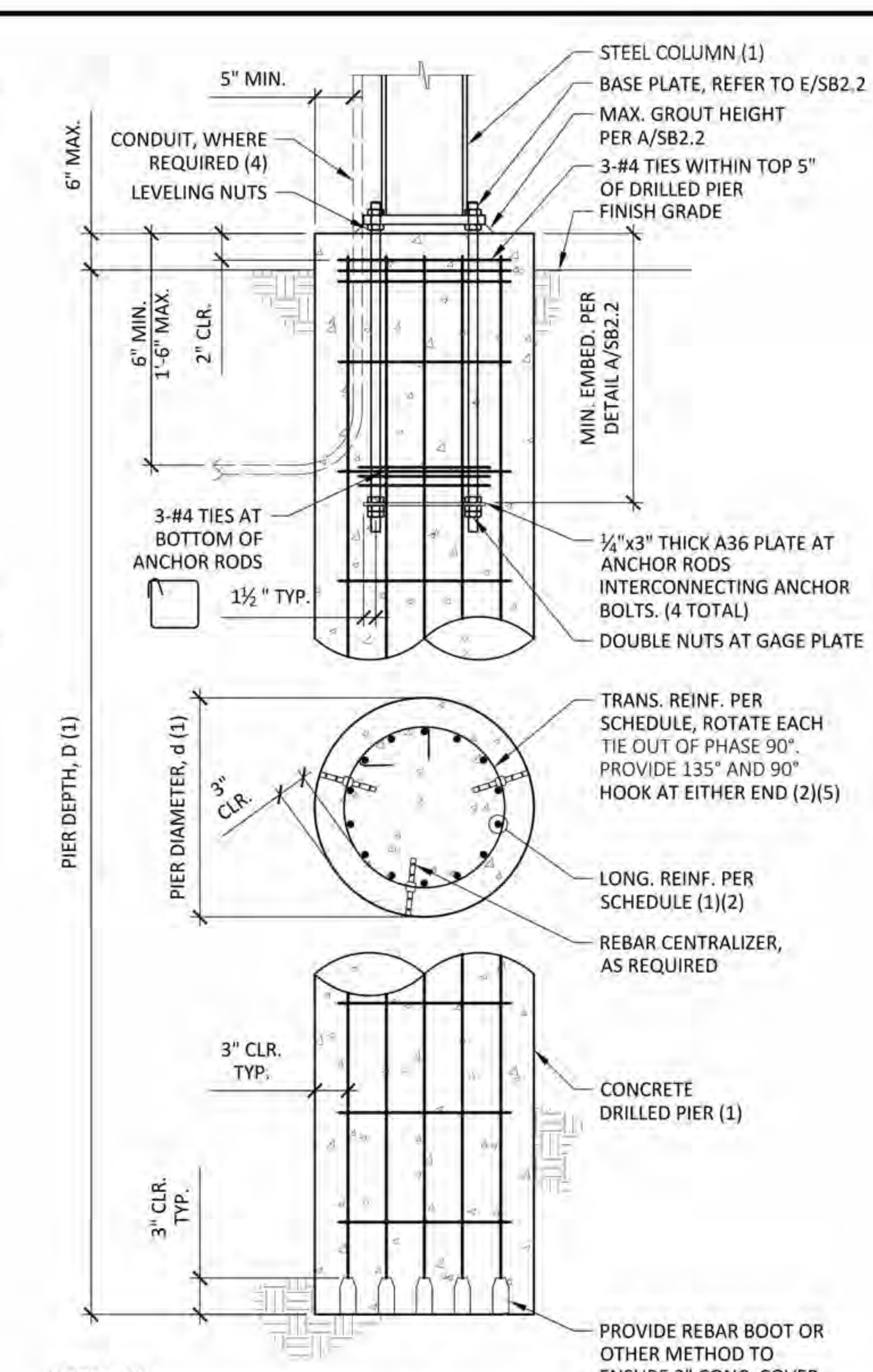
N.T.S. (E)



NOTES: (#)
1. SEE ELECTRONIC SIGN ELEVATION, A/SB2.2
2. SEE DETAILS B/SB2.2 FOR REINFORCEMENT TIE REQUIREMENTS
3. DO NOT SPLICE REINFORCEMENT.
4. LOCATION OF CONDUIT APPROACH SHOWN GRAPHICALLY ONLY FOR REFERENCE, VERIFY ACTUAL CONDITIONS IN FIELD. (2)-2" NOMINAL CONDUIT MAX. SPACE CONDUIT 6"o.c. MIN.
5. TIE SHALL OVERLAP ITSELF A MINIMUM OF 6" AND HOOK AT VERTICAL BARS. MAXIMUM OF THREE VERTICAL BAR SPACINGS BETWEEN HOOKS

CONCRETE DRILLED PIER

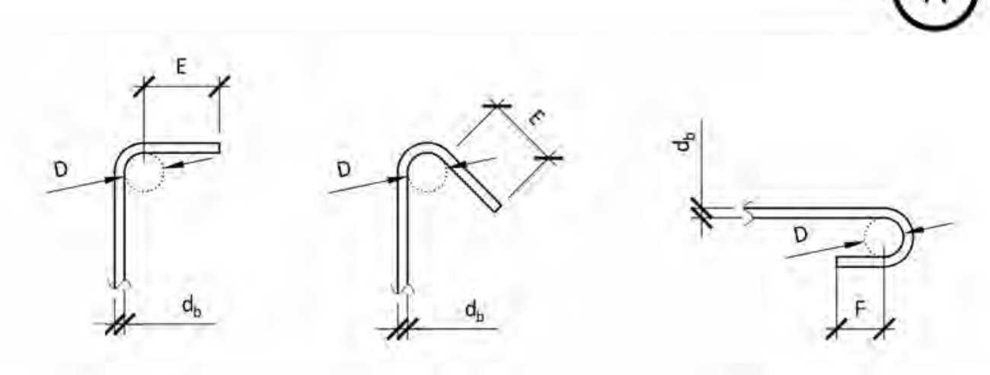
N.T.S. (D)



NOTES: (#)
1. SEE ELECTRONIC SIGN ELEVATION, A/SB2.2
2. SEE DETAILS B/SB2.2 FOR REINFORCEMENT TIE REQUIREMENTS
3. DO NOT SPLICE REINFORCEMENT.
4. LOCATION OF CONDUIT APPROACH SHOWN GRAPHICALLY ONLY FOR REFERENCE, VERIFY ACTUAL CONDITIONS IN FIELD. (2)-2" NOMINAL CONDUIT MAX. SPACE CONDUIT 6"o.c. MIN.
5. TIE SHALL OVERLAP ITSELF A MINIMUM OF 6" AND HOOK AT VERTICAL BARS. MAXIMUM OF THREE VERTICAL BAR SPACINGS BETWEEN HOOKS

CONCRETE DRILLED PIER

N.T.S. (C)



Bar Size	Dimension of Standard Bends		
	D	E	F (6d$_b$) (3" min.)
#4	2"Ø	3"	3"

TIE AND STIRRUP BENDS

N.T.S. (B)

SSG structural engineers

PC SEOR SEAL — REGISTERED PROFESSIONAL ENGINEER MICHAEL E. PAROLINI No. 5405 STRUCTURAL STATE OF CALIFORNIA — DATE SIGNED: 08.09.2023

nevco
301 East Harris Avenue, Greenville, Illinois 62246
Phone: (618) 664-0360
www.nevco.com

APPROVED DIV. OF THE STATE ARCHITECT APP: 04-122317 PC REVIEWED FOR SS ☑ FLS ☑ ACS ☑ CG ☐ DATE: 09/20/2023

DSA STAMP

PRE-CHECK (PC) DOCUMENT CODE: 2022

A separate project application for construction is required.

SHEET INFORMATION

TWO COLUMN CAISSON - BOLTED

DATE	08.09.2023
DRAWN	JMK
CHECKED	MEP
SSG JOB #	S23109
SHEET	SB2.2

LIONÄKIS
2025 Nineteenth Street
Sacramento CA 95818
P 916.558.1900
www.lionakis.com

CONSULTANT

SEAL — LICENSED ARCHITECT BRIAN BELL C28712 REN. 01-31-25 STATE OF CALIFORNIA

PROJECT
MCCLATCHY HIGH SCHOOL ATHLETIC FIELD RENOVATION
3066 FREEPORT BLVD, SACRAMENTO, CA 95818

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
425 1ST AVE, SACRAMENTO, CA 95818.

ISSUED

MARK	DATE	DESCRIPTION
	12/7/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

LIONAKIS PROJECT NO:	023040
DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	
COPYRIGHT:	LIONAKIS 2017

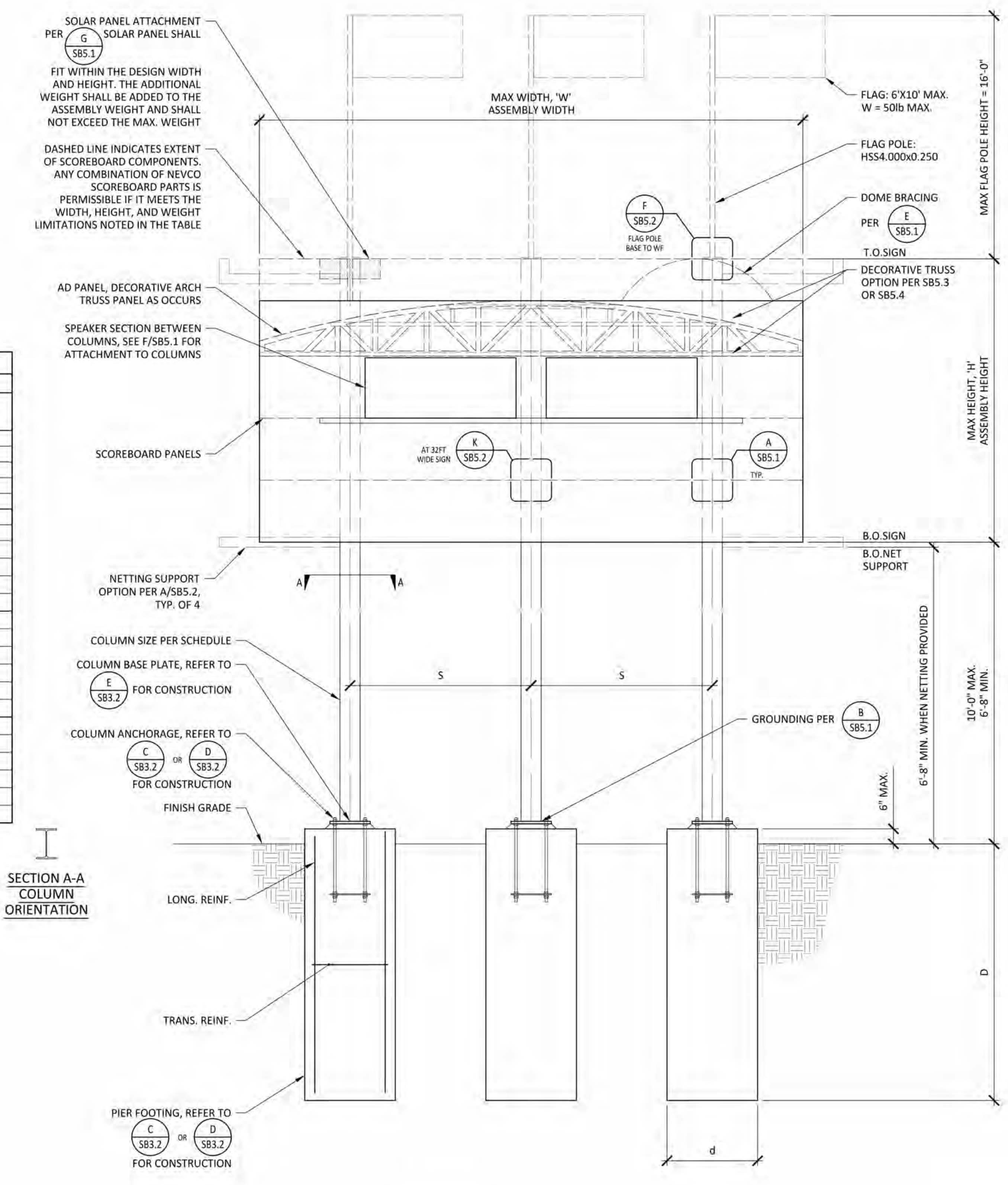
TITLE
TWO COLUMN CAISSON - BOLTED

SHEET
SB2.2

ASSEMBLY CRITERIA							PIER FOOTING CRITERIA (2)				BASE PLATE				ANCHOR RODS				
ASSEMBLY WIDTH, W	CHECK OPTION THIS APPLICATION	MAX. WEIGHT	ASSEMBLY HEIGHT, H	COLUMN SPACING, S	COLUMN SIZE	COLUMN SIZE, W/O FLAG	PIER DIAMETER, d	DEPTH, D	LONG. REINF.	TRANS. REINF.(1)	THICKNESS, t	WIDTH, B	LENGTH, L	WELD	QUANTITY & DIAMETER	GRADE	EDGE DISTANCE, X	GROUT HEIGHT	EMBED
20'-0"		1,920 lbs.	≤ 8'-0"	8'-0"	W10x33	W10x30	36"Ø	8'-6"	8 - #6	#4 @ 4½" o.c.	1⅛"	20"	20"	5/16	(4) - 1⅛"Ø	F1554 - GR.36	2¼"	2"	48"
		2,880 lbs.	≤ 12'-0"	8'-0"	W12x40	W12x40	36"Ø	10'-0"	8 - #6	#4 @ 4½" o.c.	1⅛"	20"	20"	⅜	(6) - 1⅛"Ø	F1554 - GR.55	2¼"	2"	48"
		3,840 lbs.	≤ 16'-0"	8'-0"	W14x61	W14x53	42"Ø	10'-6"	8 - #8	#4 @ 6" o.c.	1⅜"	24"	24"	⅜	(6) - 1¼"Ø	F1554 - GR.55	2½"	2"	64"
		4,800 lbs.	≤ 20'-0"	8'-0"	W16x67	W16x67	48"Ø	11'-0"	14 - #8	#4 @ 6" o.c.	1¾"	24"	30"	½	(4) - 1½"Ø	F1554 - GR.55	3"	2"	64"
		5,760 lbs.	≤ 24'-0"	8'-0"	W18x86	W18x76	48"Ø	12'-0"	14 - #8	#4 @ 6" o.c.	1¾"	24"	30"	CJP	(6) - 1½"Ø	F1554 - GR.55	3"	2"	64"
24'-0"		2,310 lbs.	≤ 8'-0"	8'-0"	W10x33	W10x33	36"Ø	9'-0"	8 - #6	#4 @ 4½" o.c.	1¼"	20"	20"	5/16	(4) - 1⅛"Ø	F1554 - GR.55	2¼"	2"	48"
		3,460 lbs.	≤ 12'-0"	8'-0"	W14x48	W14x43	36"Ø	10'-6"	8 - #8	#4 @ 6" o.c.	1¼"	20"	20"	7/16	(6) - 1⅛"Ø	F1554 - GR.55	2¼"	2"	64"
		4,610 lbs.	≤ 16'-0"	8'-0"	W14x61	W14x61	48"Ø	10'-9"	12 - #8	#4 @ 6" o.c.	1½"	24"	24"	7/16	(6) - 1¼"Ø	F1554 - GR.55	2½"	2"	64"
		5,760 lbs.	≤ 20'-0"	8'-0"	W16x77	W16x67	48"Ø	12'-0"	14 - #8	#4 @ 6" o.c.	1½"	24"	30"	9/16	(6) - 1¼"Ø	F1554 - GR.105	2½"	2"	64"
		6,920 lbs.	≤ 24'-0"	8'-0"	W18x97	W18x86	48"Ø	13'-3"	14 - #8	#4 @ 6" o.c.	1¾"	24"	30"	CJP	(6) - 1½"Ø	F1554 -GR.55	3"	2"	64"
		8,060 lbs.	≤ 28'-0"	8'-0"	W18x119	W18x106	48"Ø	14'-3"	14 - #8	#4 @ 6" o.c.	2"	24"	30"	CJP	(6) - 1½"Ø	F1554 - GR.55	3"	2"	64"
28'-0"	x	2,690 lbs.	≤ 8'-0"	10'-0"	W10x33	W10x33	36"Ø	9'-6"	8 - #6	#4 @ 4½" o.c.	1¼"	20"	20"	5/16	(4) - 1⅛"Ø	F1554 - GR.55	2¼"	2"	48"
		4,040 lbs.	≤ 12'-0"	10'-0"	W14x48	W14x43	48"Ø	9'-9"	8 - #8	#4 @ 6" o.c.	1¼"	24"	24"	7/16	(6) - 1¼"Ø	F1554 - GR.55	2½"	2"	64"
		5,380 lbs.	≤ 16'-0"	10'-0"	W16x67	W16x67	48"Ø	11'-6"	14 - #8	#4 @ 6" o.c.	1¾"	24"	30"	½	(4) - 1½"Ø	F1554 - GR.55	3"	2"	64"
		6,720 lbs.	≤ 20'-0"	10'-0"	W16x89	W16x77	48"Ø	12'-6"	14 - #8	#4 @ 6" o.c.	2"	24"	30"	CJP	(6) - 1½"Ø	F1554 - GR.55	3"	2"	64"
		8,070 lbs.	≤ 24'-0"	10'-0"	W18x106	W18x97	48"Ø	13'-9"	14 - #9	#4 @ 6" o.c.	2"	24"	30"	CJP	(6) - 1½"Ø	F1554 - GR.55	3"	2"	64"
		9,400 lbs.	≤ 28'-0"	10'-0"	W18x130	W18x119	48"Ø	15'-0"	14 - #9	#4 @ 6" o.c.	2"	24"	30"	CJP	(6) - 1½"Ø	F1554 - GR.105	3"	2"	64"
32'-0"		3,080 lbs.	≤ 8'-0"	12'-0"	W10x33	W10x33	36"Ø	10'-0"	8 - #6	#4 @ 4½" o.c.	1¼"	20"	20"	⅜	(6) - 1⅛"Ø	F1554 - GR.55	2¼"	2"	48"
		4,610 lbs.	≤ 12'-0"	12'-0"	W14x61	W14x48	48"Ø	10'-3"	8 - #8	#4 @ 6" o.c.	1½"	24"	24"	⅜	(6) - 1¼"Ø	F1554 - GR.55	2½"	2"	64"
		6,150 lbs.	≤ 16'-0"	12'-0"	W16x67	W16x67	48"Ø	11'-9"	14 - #8	#4 @ 6" o.c.	1¾"	24"	30"	½	(4) - 1½"Ø	F1554 - GR.55	3"	2"	64"
		7,680 lbs.	≤ 20'-0"	12'-0"	W18x86	W18x76	48"Ø	13'-0"	14 - #8	#4 @ 6" o.c.	1¾"	24"	30"	CJP	(6) - 1½"Ø	F1554 - GR.55	3"	2"	64"
		9,220 lbs.	≤ 24'-0"	12'-0"	W18x119	W18x106	48"Ø	14'-6"	14 - #9	#4 @ 6" o.c.	2"	24"	30"	CJP	(6) - 1½"Ø	F1554 - GR.55	3"	2"	64"
		10,750 lbs.	≤ 28'-0"	12'-0"	W18x143	W18x130	54"Ø	15'-6"	14 - #9	#4 @ 6"o.c.	2¼"	30"	36"	CJP	(6) - 2"Ø	F1554 - GR.55	4"	2½"	64"

THREE COLUMN ASSEMBLY

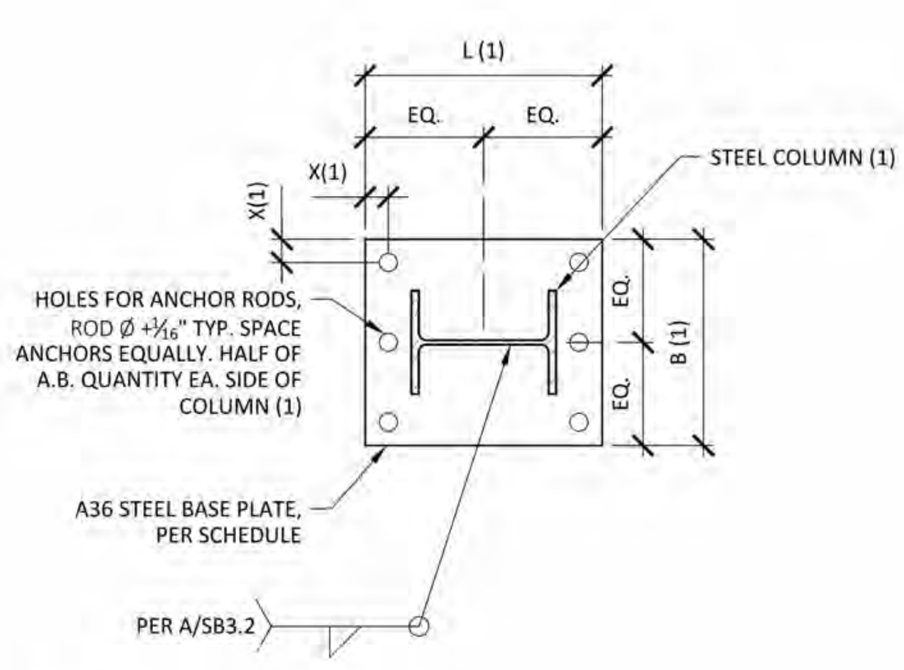
NOTES:
1. CONTRACTOR OPTION TO PROVIDE TIES OR SPIRAL REINFORCING. SEE C/SB3.2 FOR TIE OPTION, SEE D/SB3.2 FOR SPIRAL OPTION.
2. CONTRACTOR IS RESPONSIBLE FOR CASING PIERS AND DRILLING SEQUENCING TO PROTECT PIER EXCAVATION



SECTION A-A COLUMN ORIENTATION

THREE COLUMN SCOREBOARD INSTALLATION

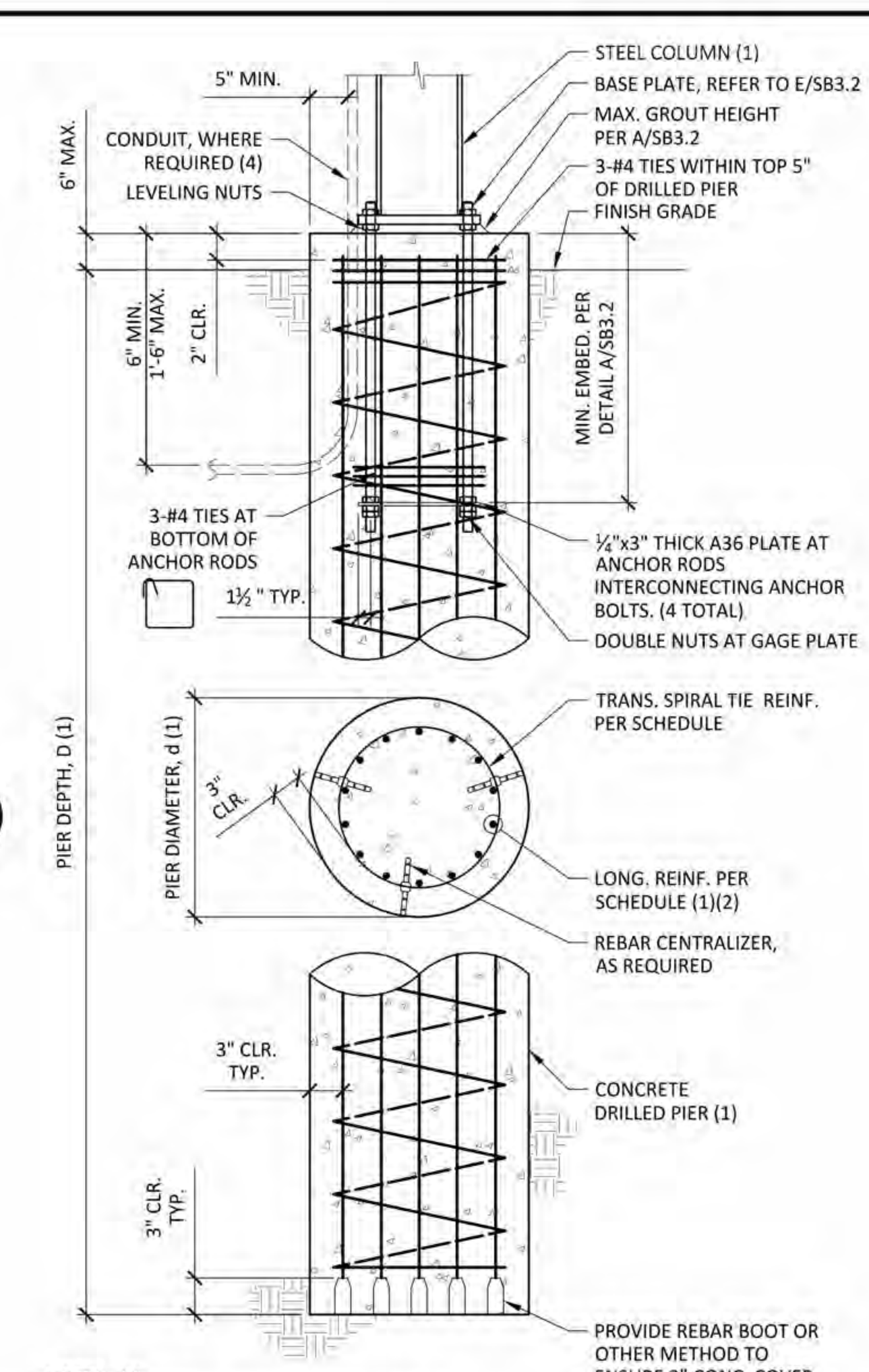
N.T.S. (A)



NOTES: (#)
1. SEE SCOREBOARD ELEVATION, A/SB3.2

BASE PLATE

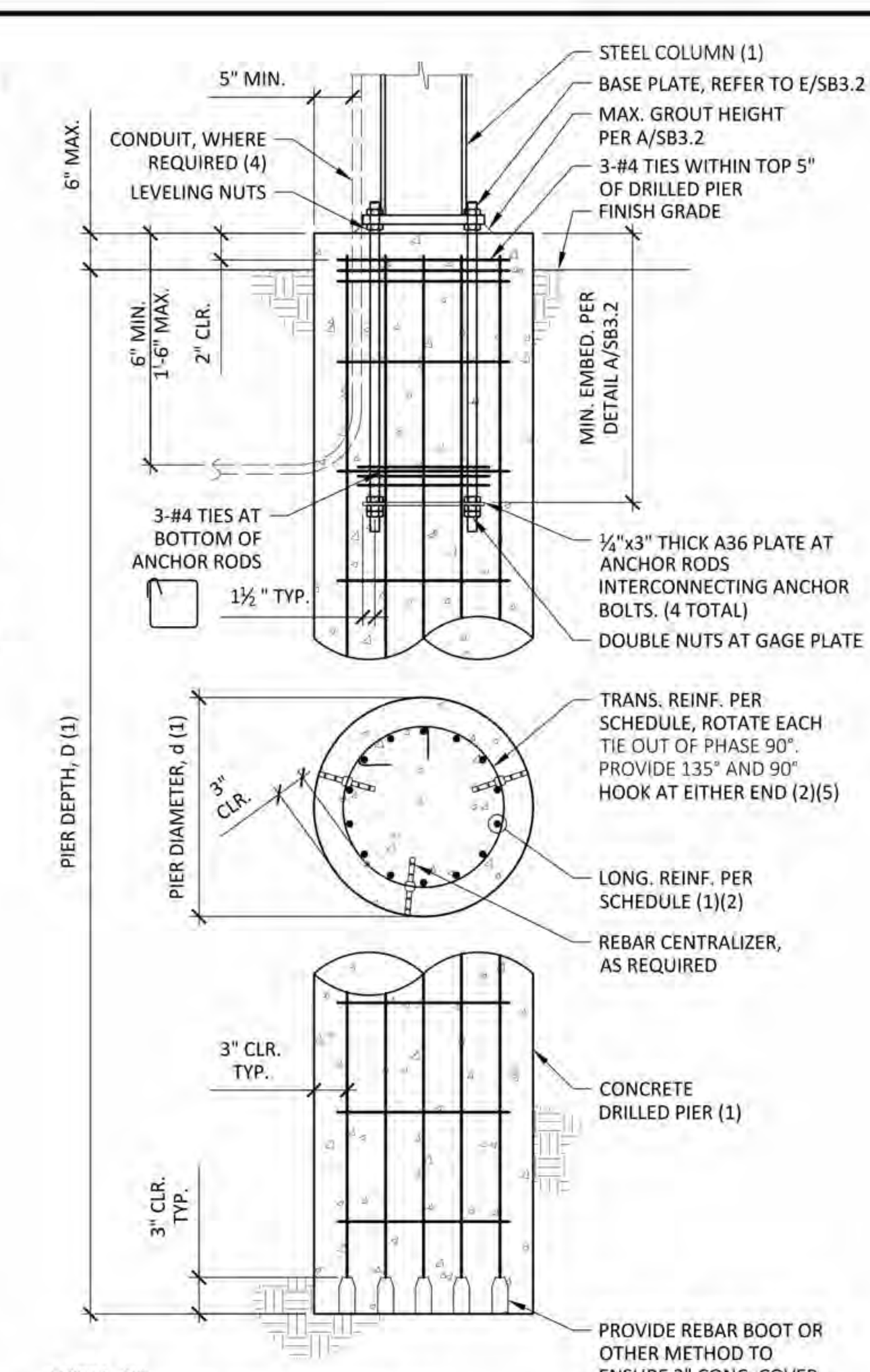
N.T.S. (E)



NOTES: (#)
1. SEE ELECTRONIC SIGN ELEVATION, A/SB3.2
2. SEE DETAILS B/SB3.2 FOR REINFORCEMENT TIE REQUIREMENTS
3. DO NOT SPLICE REINFORCEMENT.
4. LOCATION OF CONDUIT APPROACH SHOWN GRAPHICALLY ONLY FOR REFERENCE, VERIFY ACTUAL CONDITIONS IN FIELD. (2)-2" NOMINAL CONDUIT MAX. SPACE CONDUIT 6"o.c. MIN.
5. TIE SHALL OVERLAP ITSELF A MINIMUM OF 6" AND HOOK AT VERTICAL BARS. MAXIMUM OF THREE VERTICAL BAR SPACINGS BETWEEN HOOKS

CONCRETE DRILLED PIER

N.T.S. (D)



NOTES: (#)
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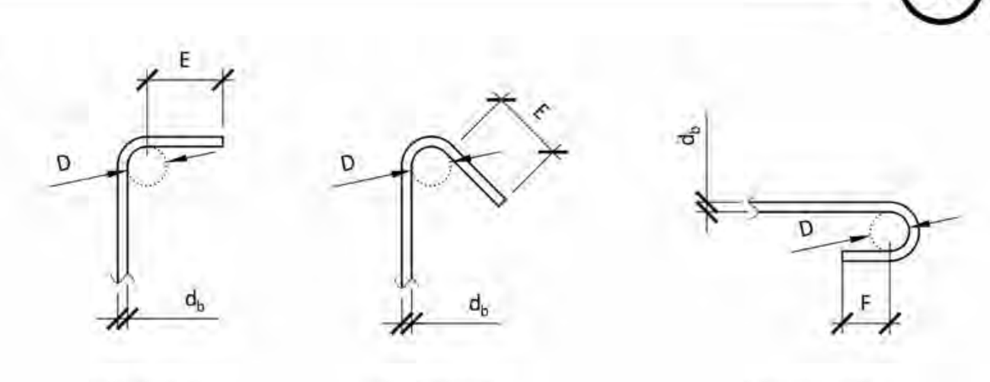
CONCRETE DRILLED PIER

N.T.S. (C)



Bar Size	Dimension of Standard Bends		
	D	E	F ($6d_b$) [3" min.]
#4	2"Ø	3"	3"

TIE AND STIRRUP BENDS

N.T.S. (B)

SSG structural engineers

PC SEOR SEAL — REGISTERED PROFESSIONAL ENGINEER MICHAEL E. PAROLINI No. 5405 STRUCTURAL STATE OF CALIFORNIA — DATE SIGNED: 08.09.2023

NEVCO
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APPROVED DIV. OF THE STATE ARCHITECT APP: 04-122317 PC REVIEWED FOR SS ☑ FLS ☑ ACS ☑ CG ☐ DATE: 09/20/2023

DSA STAMP

PRE-CHECK (PC) DOCUMENT CODE: 2022

A separate project application for construction is required.

THREE COLUMN CAISSON - BOLTED

SHEET INFORMATION
DATE: 08.09.2023
DRAWN: JMK
CHECKED: MEP
SSG JOB #: S23109
SHEET: SB3.2

LIONAKIS
2025 Nineteenth Street
Sacramento CA 95818
P 916.558.1900
www.lionakis.com

CONSULTANT

SEAL — LICENSED ARCHITECT BRIAN BELL C28712 REN. 01-31-25 STATE OF CALIFORNIA

PROJECT
MCCLATCHY HIGH SCHOOL ATHLETIC FIELD RENOVATION
3066 FREEPORT BLVD, SACRAMENTO, CA 95818

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
425 1ST AVE, SACRAMENTO, CA 95818.

ISSUED

MARK	DATE	DESCRIPTION
	12/7/2023	BID SET - NOT DSA APPROVED

MANAGEMENT
LIONAKIS PROJECT NO: 023040
DSA APPLICATION NO: 02-121610
CLIENT PROJECT NO:
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TITLE
THREE COLUMN CAISSON - BOLTED

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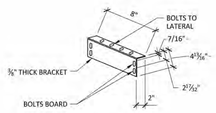
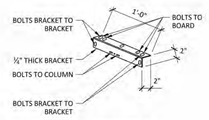
BIM 360://023040 SCUSD McClatchy HS Fields/023040_ARCHSITE_R20_CENTRAL.rvt

12/6/2023 8:06:41 AM



L BRACKET - B

F_y = 50 ksi



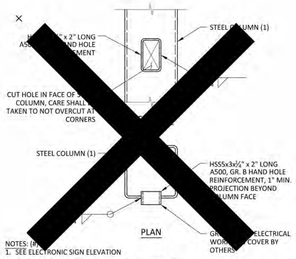
L BRACKET - A

F_y = 50 ksi

L BRACKETS

N.T.S.

(K)

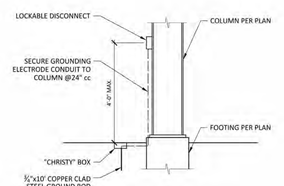


NOTES: (#)
1. SEE ELECTRONIC SIGN ELEVATION

CONDUIT HAND HOLE

N.T.S.

(H)



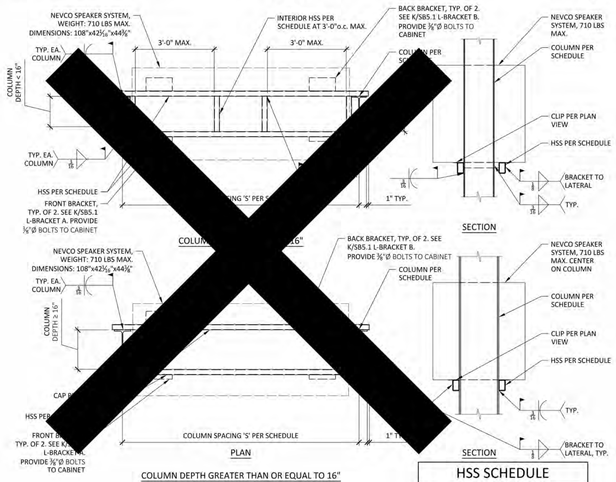
ALL DISPLAYS MUST BE GROUNDED WITH NO MORE THAN 10 OHMS GROUND RESISTANCE

NOTES:
1. ALTERNATE: IT IS PERMISSIBLE TO UTILIZE THE UFER GROUNDING METHOD. DETAILS FOR UFER GROUNDING SHALL BE INCLUDED AS PART OF THE SITE SPECIFIC SUBMITTAL.

GROUNDING DETAIL

N.T.S.

(B)



COLUMN DEPTH GREATER THAN OR EQUAL TO 16"

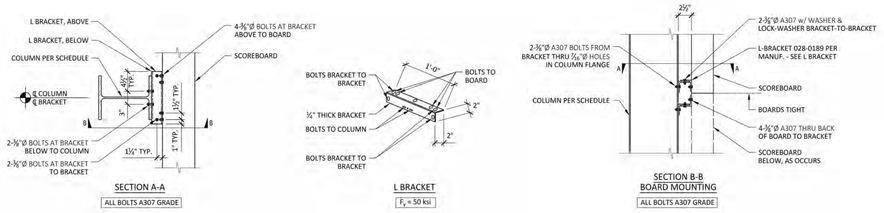
HSS SCHEDULE

COLUMN SPACING, S	HSS SIZE
10'-0"	HSS4x3x5/16 LLV
12'-0"	HSS4x3x5/16 LLV
14'-0"	HSS4x3x3/8 LLV

SCOREBOARD PART ATTACHMENTS

N.T.S.

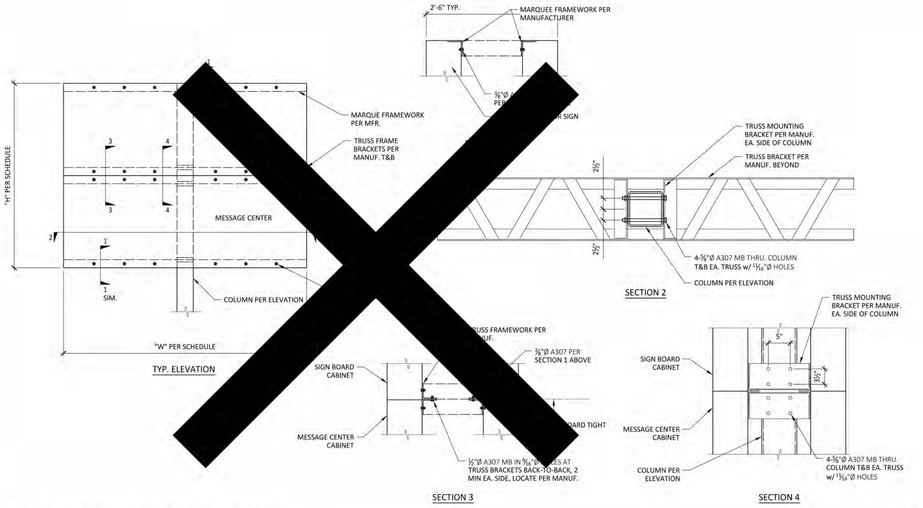
(A)



MARQUEE CENTER INSTALLATION

N.T.S.

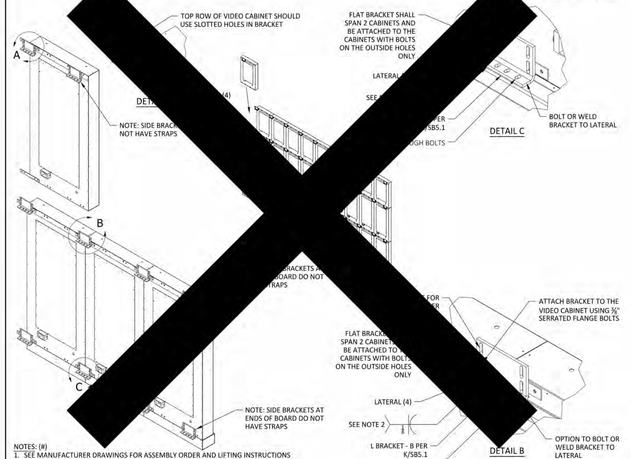
(D)



VIDEO BOARD BRACKET ATTACHMENT

N.T.S.

(J)

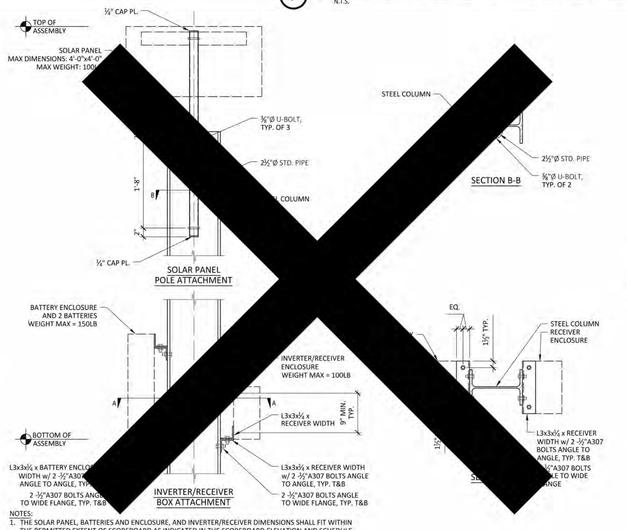


NOTES: (#)
1. SEE MANUFACTURER DRAWINGS FOR ASSEMBLY ORDER AND LIFTING INSTRUCTIONS
2. OPTION TO ATTACH CLIP TO LATERAL WITH WELD OR BOLTS
3. PROVIDE FILLET WELD WHERE LATERAL WIDTH EXCEEDS BRACKET WIDTH
4. TYPICAL VIDEO BOARD LATERAL IS HSS3X3X5/16, SEE K/SB5.2 FOR ATTACHMENT TO COLUMN. SEE B/SB6.1 FOR INDOOR WALL ATTACHMENT.
5. MAX TRIBUTARY AREA TO L-BRACKET SHALL NOT EXCEED 20 S.F.

SPEAKER ATTACHMENT

N.T.S.

(F)

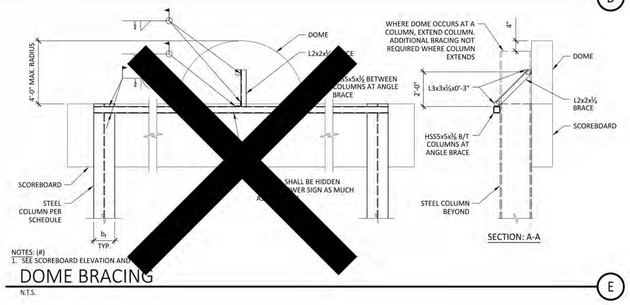


NOTES:
1. THE SOLAR PANEL, BATTERIES AND ENCLOSURE, AND INVERTER/RECEIVER DIMENSIONS SHALL FIT WITHIN THE PERMITTED EXTENT OF SCOREBOARD AS INDICATED IN THE SCOREBOARD ELEVATION AND SCHEDULE.
2. THE SOLAR PANEL, BATTERIES AND ENCLOSURE, AND INVERTER/RECEIVER WEIGHT ALONG WITH ALL OTHER SCOREBOARD COMPONENTS SHALL NOT EXCEED THE WEIGHT INDICATED IN THE SCOREBOARD SCHEDULE.

SOLAR PANEL/BATTERY/ INVERTER/RECEIVER ATTACHMENT

N.T.S.

(G)



NOTES: (#)
1. SEE SCOREBOARD ELEVATION AND

DOME BRACING

N.T.S.

(E)

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SSG
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PROFESSIONAL ENGINEER
No. 5405
STRUCTURAL
STATE OF CALIFORNIA
CC SEOR SEAL
08.09.2023

nevco
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Phone: (618) 664-0360
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APPROVED
DIV. OF THE STATE ARCHITECT
APP: 04-122317 PC
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑ CG ☐
DATE: 09/20/2023
DSA STAMP

PRE-CHECK (PC) DOCUMENT
CODE: 2022

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ATTACHMENT DETAILS

SHEET INFORMATION

DATE: 08.09.2023
DRAWN: JMK
CHECKED: MEP
SSG JOB #: S23109
SHEET: SB5.1

SEAL

LICENSED ARCHITECT
BRIAN BELL
C28712
REN. 01-31-25
STATE OF CALIFORNIA

PROJECT
MCCLATCHY HIGH SCHOOL
ATHLETIC FIELD RENOVATION

3066 FREEPORT BLVD,
SACRAMENTO, CA 95818

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

425 1ST AVE, SACRAMENTO, CA 95818.

ISSUED

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MANAGEMENT

LIONAKIS PROJECT NO:	023040
DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	
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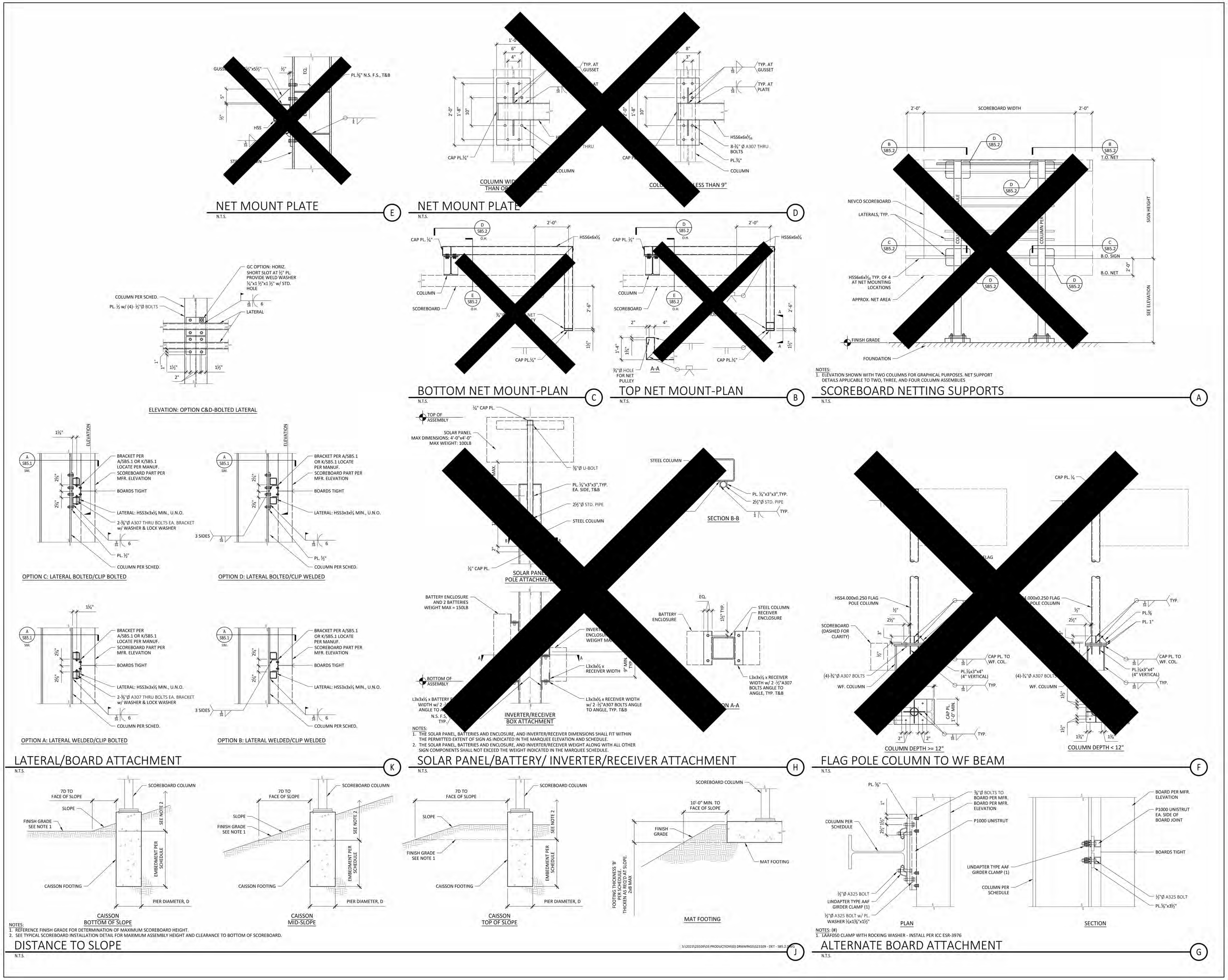
TITLE
ATTACHMENT DETAILS

SHEET
SB5.1



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SSG structural engineers

PC SEOR SEAL 08.09.2023

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Phone: (618) 664-0360
www.nevco.com

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DATE: 09/20/2023

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OPTIONAL SCOREBOARD FEATURE ATTACHMENT DETAILS

DATE	08.09.2023
DRAWN	JMK
CHECKED	MEP
SSG JOB #	S23109
SHEET	SB5.2

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CONSULTANT

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LICENSED ARCHITECT BRIAN BELL C28712 REN 01-31-25 STATE OF CALIFORNIA

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DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	
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TITLE
OPTIONAL SCOREBOARD FEATURE ATTACHMENT DETAILS

SHEET
SB5.2

12/8/2023 8:06:52 AM

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MANUFACTURED RELOCATABLE MODULAR BUILDINGS

SINGLE OCCUPANCY TOILET BUILDINGS
8'-6" x 16'-7", 8'-6" x 21'-6", 8'-6" x 32'-0"

PC 04-122203

BY

SILVER CREEK INDUSTRIES, INC.
2830 BARRETT AVE, PERRIS, CALIFORNIA 92571
PHONE : (951) 943-5393 FAX : (951) 943-2211

SACRAMENTO CITY USD
McCLATHY HIGH SCHOOL
(1) 8'-6" X 21'-6" RESTROOM / CUSTODIAL BLDG
(1) 8'-6" X 32'-0" RESTROOM BLDG

GENERAL NOTES

1. FIRE ALARM IS NOT PART OF THIS APPROVAL
2. ALLOWABLE AREA IS BASED ON 10' SET BACK FROM IMAGINARY ASSUMED LINE PER 2022 CBC 705.3
3. THIS PC IS DESIGNED STRUCTURALLY TO SUPPORT THE WEIGHT OF A FIRE SPRINKLER SYSTEM.
4. PC IS DESIGNED AS A SINGLE STORY MODULAR BUILDING
5. FOR SOILS TYPES / DESIGN BEARING STRENGTH, SEE STRUCTURAL SPECIFICATIONS
6. ALL WORK SHALL CONFORM TO TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
7. THIS PC IS NOT APPROVED FOR "A" OCCUPANCY USES
8. EXTERIOR WALL OPENINGS TO COMPLY W/ 705.8, 2022 CBC. THE USE OF UNPROTECTED OPENINGS SHALL BE VERIFIED IN THE PROJECT SPECIFIC APPLICATIONS.
9. EXTERIOR PROJECTIONS ARE TO BE FIRE PROTECTED WHERE REQUIRED BY SECTIONS 705.2 & 1405.
10. SEE SHEETS A-0.7 FOR REQUIRED BUILDING ENVELOPE ASSEMBLIES AND HVAC SYSTEM.
11. PURSUANT TO D.S.A. APPROVAL ALL PRODUCTS CAN BE SUBSTITUTED BY AN "EQUAL"
12. BUILDING(S) TO BE LOCATED IN ANY FIRE HAZARD SEVERITY ZONE OR ANY WILDLAND - URBAN INTERFACE FIRE AREA SHALL COMPLY WITH CBC CHAPTER 7A.
13. WHEN THE PRE-CHECKED BUILDING IS SITE ADAPTED, THE BUILDING AND SITE FEATURES NEED TO COMPLY WITH CALGREEN CODE, SECTION 5.507.4 FOR THE SITE SPECIFIC LOCATION
14. IN THE EVENT THAT A PC CLASSROOM IS DESIGNED TO CONNECT TO THE SAME PC CLASSROOM, INTERIOR SOUND TRANSMISSION IN THE INTERIOR ADJOINING WALL AND FLOOR-CEILING SHALL MEET THE MINIMUM REQUIREMENTS OF THE STC RATING OF 40 PER CALGREEN CODE, SECTION 5.507.4.3.
15. FOR THE CONCRETE BELOW GRADE (AMM*) FOUNDATION OPTION THIS PC USES A DSA APPROVED ALTERNATE MEANS OF COMPLIANCE WITH THE FOUNDATION DURABILITY REQUIREMENTS OF CBC 1402.2 + 1403.2 (WEATHER-RESISTANT EXTERIOR WALL ENVELOPE AND CONTINUOUS WATER-RESTISTIVE BARRIER ON WALLS TO FOUNDATION) + 2304.12.1.2 (PROTECTION AGAINST DECAY AND TERMITES). DETAILS ARE PROVIDED ON SHEETS A-5.71 - A-5.74 AS APPLICABLE.
16. THE BUILDING PAD ELEVATION SHALL ABOVE THE DESIGN FLOOD ELEVATION.
17. WHEN THE SITE-SPECIFIC PROJECT IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X, A SEALED LETTER FROM A GEOTECHNICAL ENGINEER SHALL BE PROVIDED TO VALIDATE THE APPLICABILITY OF THE ALLOWABLE SOIL BEARING PRESSURES INDICATED ON THE PC DRAWINGS.
    EXCEPTION: THIS LETTER IS NOT REQUIRED FOR PROJECTS LOCATED IN FLOOD ZONE D WHEN A GEOTECHNICAL REPORT IS AVAILABLE FOR IMPROVEMENTS ON THE SAME PROJECT SITE, AND IN ACCORDANCE WITH THE CURRENT CBC, WHICH CONFIRMS THAT THE SITE IS NOT IN A FLOOD HAZARD ZONE OR CONFIRMS THAT THE FLOOD HAZARD DOES NOT RESULT IN A REDUCTION OF SOIL CAPACITY VALUES.

APPLICABLE STANDARDS

NFPA 13 AUTOMATIC SPRINKLER SYSTEMS (CA. AMENDED) 2022 EDITION
NFPA 72 NATIONAL FIRE ALARM CODE (CALIFORNIA AMENDED) 2022 EDITION
(NOTE: SEE UL STANDARD 1971 FOR "VISUAL DEVICES")
ACI 318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE 2019 EDITION
ASME A17.1 (W/A17.1A CSA B44A-2019 ADDENDA) SAFETY CODE FOR ELEVATORS & ESCALATORS. 2007 EDITION

FOR A LIST OF APPLICABLE STANDARDS, INCLUILDING CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS, REFET TO CBC CHAPTER 35 AND CFC CHAPTER 80

APPLICABLE CODES

LIST OF 2022 CALIFORNIA CODE OF REGULATIONS

2022 BUILDING ADMINISTRATIVE CODE (CAC), PART 1, TITLE 24 C.C.R.
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
2022 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24 C.C.R.
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
2022 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R.
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 C.C.R.
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 C.C.R.
2022 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24 C.C.R.
TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

BUILDING DATA

NUMBER OF STORIES:	1 - STORY
OCCUPANCY:	E
TYPE OF CONSTRUCTION:	V-B
FLOOR LIVE LOAD:	50 PSF
ROOF LIVE LOAD:	20 PSF
FLOOR DEAD LOAD:	☐ 11 PSF (WOOD FLOOR) ☑ 55 PSF (CONCRETE FLOOR)
ROOF DEAD LOAD:	14.9 PSF (INCLUDING SPRINKLER LOAD and 0.6 PSF FOR FUTURE SOLAR ALLOWANCE)
RAMP LIVE LOAD:	100 PSF
BUILDING AREA:	WITHOUT OVERHANGS / WITH OVERHANGS
ALLOWABLE AREA: 9,000 S.F.	8'-6"x16'-7" BLDG - 141 S.F. / 8'-6"x16'-7" BLDG - 207 S.F. 8'-6"x21'-6" BLDG - 193 S.F. / 8'-6"x21'-6" BLDG - 269 S.F. 8'-6"x32'-0" BLDG - 272 S.F. / 8'-6"x32'-0" BLDG - 400 S.F.
FOUNDATION:	☐ WOOD (CONDITIONAL, <2,160 SF) ☐ CONCRETE ABOVE GRADE ☑ CONCRETE BELOW GRADE (CONDITIONAL, <2,160 SF) ☐ CONCRETE BELOW GRADE (WITH AMM DETAILING PER GENERAL NOTE #15)
CBC CHAPTER 7A	☑ NOT APPLICABLE ☐ APPLICABLE (SEE NOTES THIS SHEET)
CEC CLIMATE ZONE:	1-16

ALLOWABLE SOIL PRESSURE

WOOD FOOTING (DL & DL+LL & DL+LL+SEISMIC)	1,000 psf
CONCRETE FOOTING (DL & DL+LL & DL+LL+SEISMIC)	1,500 psf

ROOF SNOW LOAD

GROUND SNOW LOAD, P_g FROM COUNTY	0
ROOF SNOW LOAD: ☑ FLAT P_f OR ☐ LOW-SLOW, P_{ls} OR ☐ SLOPED, P	
SNOW EXPOSURE FACTOR C_e	-
SNOW IMPORTANCE FACTOR I	1.0
THERMAL FACTOR C_t	-

FLOOD DESIGN (SEE GENERAL NOTE #16 + 17)

FLOOD HAZARD AREA YES☐ NO ☑

WIND DESIGN

BASIC WIND SPEED (3 SECOND GUST) V_{ult}	105
RISK CATEGORY	II
WIND EXPOSURE CATEGORY	C
TOPOGRAPHIC FACTOR K_{zt}	1

SEISMIC DESIGN

LATERAL FORCE-RESISTING SYSTEM	OMF
ANALYSIS PROCEDURE	EQIV. LATERAL FORCE
SEISMIC DESIGN CATEGORY (SDC)	E
SEISMIC IMPORTANCE FACTOR I_e	1.0
SEISMIC RESPONSE COEFFICIENT C_s	0.525
RESPONSE MODIFICATION COEFFICIENT R	3.5
SITE CLASS	D ++
MAPPED SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD S_s	2.3
SHORT PERIOD SITE COEFFICIENT F_a	1.2
DESIGN SPECTRAL RESPONSE ACCELERATION AT SHORT PERIOD S_{DS}	1.84
MAPPED SPECTRAL RESPONSE ACCELERATION AT 1-SECOND PERIOD S_1	1.064
LONG PERIOD SITE COEFFICIENT, F_v	1.7
DESIGN SPECTRAL RESPONSE ACCELERATION AT 1-SECOND PERIOD S_{D1}	2.0
HORIZONTAL OR VERTICAL IRREGULARITY TYPES	NONE
REDUNDANCY FACTOR Rho	1.3
FUNDAMENTAL PERIOD T	< 0.5s

++ PER SUPPLEMENT 3 OF ASCE 7-16, STRUCTURES SITUATED IN SITE CLASS D WITH S1 VALUES THAT ARE EQUAL TO OR GREATER THAN 0.2 ARE EXEMPTED FROM THE GROUND MOTION HAZARD ANALYSIS. THIS EXEMPTION APPLIES WHEN THE PARAMETER SM1, DETERMINED THROUGH THE USE OF EQ. 11.4-2, IS ELEVATED BY 50% FOR ALL APPLICATIONS OF SM1

FOR SITE SPECIFIC PROJECT

☐ SOLAR PV IS REQUIRED AND REFERENCE SHEET A-0.7
☐ GEOTECH REPORT IS REQUIRED

SEISMIC DESIGN FOR SITE SPECIFIC PROJECTS

SELECT ONE

☑ DESIGN BASED ON SITE CLASS $D_{default}$

NO GEOTECHNICAL INVESTIGATION REQUIRED

Ss = 0.574 Fa = 1.2

☐ DESIGN BASED ON SITE CLASS DETERMINED PER CHAPTER 20 OF ASCE 7-16

GEOTECHNICAL INVESTIGATION PROVIDED

SITE CLASS: ☐ C ☐ D
Ss = _____ Fa = _____ PER ASCE 7-16 SUPPL 3, TABLE 11.4-1

☐ DESIGN BASED ON SITE SPECIFIC GROUND MOTION HAZARD ANALYSIS PER CHAPTER 21 OF ASCE 7-16

SHORT-PERIOD DESIGN SPECTRAL RESPONSE PARAMETER, S_{DS}, SHALL BE AS SPECIFIED IN GEOTECHNICAL INVESTIGATION

CGS APPROVAL REQUIRED

NOT ELIGIBLE FOR OTC REVIEW

SITE CLASS: ☐ C ☐ D

$S_{DS} = \frac{2}{3} Fa\ Ss =$ 0.45 $\leq$ 1.84
C_s = 0.437 USED IN DESIGN

SEISMIC DESIGN CATEGORY: ☒ D ☐ E

WHEN THIS BUILDING IS TO BE INSTALLED WHERE THE REQUIREMENTS OF CHAPTER 7A OF THE 2022 CBC ARE APPLICABLE COMPLIANCE WITH THE APPLICABLE REQUIREMENTS SHALL BE AS OUTLINED BELOW:

CHAPTER 7A REQUIREMENTS:

705A ROOFING

705A.1 - ROOF SHALL BE CLASS 'A'.
705A.2 - NOT APPLICABLE. NO VOIDS OCCUR, ROOF IS APPLIED DIRECTLY.
705A.3 - NOT APPLICABLE. NO VALLEYS OCCUR.
705A.4 - LEAF GUARDS/COVERS SHALL BE PROVIDED AT ALL GUTTERS.

706A VENTS

706A.2 - THE UNDER-FLOOR ACCESS AND VENT OPENINGS SHALL BE COVERED WITH CORROSION RESISTANT WIRE MESH WITH A CLEAR OPENING NOT EXCEEDING 1/8".
706A.3 - THE SOFFIT VENTS SHALL BE VULCAN TECHNOLOGIES MODEL #VE OR VSC SOFFIT VENT COVERS (PER CA SFM LISTING 8165-2192:0500 OR 8165-2192:0501).

707A EXTERIOR COVERINGS

707A.3 - EXTERIOR WALL FINISH SHALL BE PLASTER (NON-COMBUSTIBLE) OVER 1/2" OSB OVER STUDS OR 19/32" DURATEMP SIDING OVER STUDS (PER CA SFM LISTING# 8140-2031:0004).
707A.4 - NOT APPLICABLE. NO OPEN ROOF EAVES OCCUR.
707A.5 - SOFFIT FINISH SHALL BE PLASTER (NON-COMBUSTIBLE) OVER FRAMING OR ALLURA FIBER-CEMENT PANELS (NON-COMBUSTIBLE) (PER ESR-1668).
707A.6 - NOT APPLICABLE. DOES NOT OCCUR
707A.7 - NOT APPLICABLE. DOES NOT OCCUR
707A.8 - NOT APPLICABLE. DOES NOT OCCUR
707A.9 - NOT APPLICABLE. DOES NOT OCCUR

708A EXTERIOR DOORS AND WINDOWS

708A.2 - NOT APPLICABLE. DOES NOT OCCUR
708A.3 - EXTERIOR DOORS AND FRAMES ARE NON-COMBUSTIBLE (HOLLOW METAL).
708A.4 - NOT APPLICABLE.

709A - DECKING - THE EXTERIOR DECKING (WHERE APPLICABLE) IS A NON-COMBUSTIBLE STEEL FRAME AND DECK. SKIRTING MATERIAL (WHERE APPLICABLE) SHALL BE 19/32" DURATEMP SIDING (PER SFM LISTING# 8140-2031:0004).

710A - NOT APPLICABLE.

NOTE:
CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR

SHEET INDEX

PROJECT SPECIFIC STATE AGENCY APPROVAL

PROJECT NAME:
SACRAMENTO CITY USD
McCLATHY HIGH SCHOOL
(1) 8'-6" X 21'-6" RESTRM / CUSTODIAL BLDG
(1) 8'-6" X 32'-0" RESTRM BLDG

SHEET TITLE:
COVER SHEET, SHEET INDEX & BUILDING DATA

REVISIONS

1	
2	
3	
4	
5	

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-122203 INC.
REVIEWED FOR:
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W. STARLE 24775 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
8'-6" PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-27-2023
P.C. SHEET NUMBER	A-0

LIONÄKIS
2025 Nineteenth Street
Sacramento CA 95818
P 916.558.1900
www.lionakis.com
CONSULTANT

SEAL

LICENSED ARCHITECT BRIAN BELL C28712 REN.01-31-25 STATE OF CALIFORNIA

PROJECT
MCCLATCHY HIGH SCHOOL
ATHLETIC FIELD RENOVATION

3066 FREEPORT BLVD,
SACRAMENTO, CA 95818

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

425 1ST AVE, SACRAMENTO, CA 95818.

ISSUED		
MARK	DATE	DESCRIPTION
	12/7/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

LIONAKIS PROJECT NO:	023040
DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	
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TITLE
COVER SHEET, SHEET INDEX, & BUILDING DATA

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A-0

PERMANENT WOOD FOUNDATION 5

STOCKPILE CONCRETE FLOOR, CONT. 3

The example form DSA 103 sections shown on this sheet are for illustration purposes only. A form DSA 103 is to be completed for each application that this PC is being incorporated into and the example sections shown on this drawing are to be crossed out.

- UT TESTING SHALL BE PERFORMED ON 100% OF CJP GROOVE WELDS COLUMN SPLICES OR BEAM SPLICES WHERE THE MATERIAL THICKNESS BEING WELDED IS 5/16" OR GREATER.
- UT TEST SHALL NOT BE REQUIRED TO BE PERFORMED ON CJP GROOVE WELDS WHERE THE MATERIAL THICKNESS BEING WELDED IS 1/4" OR LESS.
- MAGNETIC PARTICLE TESTING SHALL BE PERFORMED ON 25% OF ALL BEAM TO COLUMN OR TRUSS CHORD TO COLUMN CJP GROOVE WELDS.

GENERAL 103-22 NOTES 4

STOCKPILE CONCRETE FLOOR 3

STOCKPILE WOOD FLOOR 2

SOILS REPORT REQUIRED 1

PROJECT SPECIFIC STATE AGENCY APPROVAL

PROJECT NAME:

SACRAMENTO CITY USD
McCLATHY HIGH SCHOOL
(1) 8'-6" X 21'-6" RESTRM /
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(1) 8'-6" X 32'-0" RESTRM BLDG

SHEET TITLE:

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REVISIONS

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PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

JOHN W STARLING 2475

SILVER CREEK INDUSTRIES
24' x 40' PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
A-0A

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CONSULTANT

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C28712
REN. 01-31-25

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LIONAKIS PROJECT NO: 023040
DSA APPLICATION NO: 02-121610
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SHEET
A-0A

0 1/4" 1/2" 1" 2"

IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY

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12/8/2023 8:02:52 AM

2022 CBC

IMPORTANT: This form is only a summary list of structural tests and some of the special inspections required for the project. Generally, the structural tests and special inspections noted on this form are those that will be performed by the Geotechnical Engineer of Record, Laboratory of Record, or Special Inspector. The actual complete test and inspection program must be performed as detailed on the DSA approved documents. The appendix at the bottom of this form identifies work NOT subject to DSA requirements for special inspection or structural testing. The project inspector is responsible for providing inspection of all facets of construction, including but not limited to, special inspections not listed on this form such as structural wood framing, high-load wood diaphragms, cold-formed steel framing, anchorage of non-structural components, etc., per Title 24, Part 2, Chapter 17A (2022 CBC).

**NOTE: Undefined section and table references found in this document are from the CBC, or California Building Code.

KEY TO COLUMNS

1. TYPE	2. PERFORMED BY
Continuous – Indicates that a continuous special inspection is required Periodic – Indicates that a periodic special inspection is required Test – Indicates that a test is required	GE (Geotechnical Engineer) – Indicates that the special inspection shall be performed by a registered geotechnical engineer or his or her authorized representative. LOR (Laboratory of Record) – Indicates that the test or special inspection shall be performed by a testing laboratory accepted in the DSA Laboratory Evaluation and Acceptance (LEA) Program. See CAC Section 4-335. PI (Project Inspector) – Indicates that the special inspection may be performed by a project inspector when specifically approved by DSA. SI (Special Inspector) – Indicates that the special inspection shall be performed by an appropriately qualified/approved special inspector.

C1. CAST-IN-PLACE CONCRETE

	Test or Special Inspection	Type	Performed By	Code References and Notes
☑	a. Verify use of required design mix.	Periodic	SI	Table 1705A.3 Item 5, 1910A.1.
☑	b. Identify, sample, and test reinforcing steel.	Test	LOR	1910A.2; ACI 318-19 Ch.20 and Section 26.6.1.2; DSA IR 17-10. (See Appendix (end of this form) for exemptions.)
☑	c. During concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	Test	LOR	Table 1705A.3 Item 6; ACI 318-19 Sections 26.5 & 26.12.
☑	d. Test concrete (F'c).	Test	LOR	1905A.1.17; ACI 318-19 Section 26.12.
☑	e. Batch plant inspection: Periodic	See Notes	SI	Default of "Continuous" per 1705A.3.3. If approved by DSA, batch plant inspection may be reduced to "Periodic" subject to requirements in Section 1705A.3.3.1, or eliminated per 1705A.3.3.2. See IR 17-13. (See Appendix (end of this form) for exemptions.)

RELO CONCRETE FOUNDATION 4

RELO WOOD FOUNDATION 3

PERMANENT WOOD / CONCRETE FLOORS CONCRETE FOUNDATION - CONT. 1

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GENERAL 103-22 NOTES 2

PERMANENT WOOD / CONC. FLRS - CONC. FOUNDATION 1

PROJECT SPECIFIC STATE AGENCY APPROVAL

THESE DRAWINGS AND ALL MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF SILVER CREEK MODULAR, INC (SCM Inc) AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF SCM Inc.
ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCM Inc SHALL BE THE PROPERTY OF SCM Inc

PROJECT NAME:
SACRAMENTO CITY USD
McCLATHY HIGH SCHOOL
(1) 8'-6" X 21'-6" RESTRM / CUSTODIAL. BLDG
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SHEET TITLE:
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MANAGEMENT
LIONAKIS PROJECT NO: 023040
DSA APPLICATION NO: 02-121610
CLIENT PROJECT NO:

TITLE
T & I FORMS

SHEET
A-0B

REFLECTED CEILING NOTES

1. CEILING SYSTEM GENERAL NOTES

1.01 Ceiling system components shall comply with ASTM C635 and Section 5.1 of ASTM E580.
1.02 The ceiling grid system must be rated heavy duty as defined by ASTM C635.
1.03 Ceiling systems. The following ceiling system(s) is/are part of the scope of this project:

Manufacturer:	Armstrong
Evaluation Report Type and Number:	ICC ESR-1308
Main Runner Part, Model, or Catalog Number:	7301
Cross Runner Part, Model, Catalog Number:	XL7328

1.04 Seismic Wall Clip:

Manufacturer's Model:	BERC-2

1.05 Ceiling panels shall not support any luminaires, air terminals or devices.
1.06 For ceiling installations utilizing acoustical tile panels of mineral or glass fiber, it is not mandatory to provide ¾" clearance between the acoustical tile panels and the wall on the sides of the ceiling which are free to slip. For all other ceiling panel types, provide ½" clearance between the ceiling panel and the wall on the sides of the ceiling free to slip. Clearance between ceiling grid runners/members and walls shall comply with the details on these drawings regardless of ceiling tile material.

2. MATERIALS

2.01 Ceiling wire shall be Class 1 zinc coated (galvanized) carbon steel conforming to ASTM A641. Wire shall be #12 gauge (0.106" diameter) with soft temper and minimum ultimate tensile strength = 70 ksi.
2.02 Galvanized sheet steel (including that used for metal stud and track compression struts/post) shall conform to ASTM A653, or other equivalent sheet steel listed in Section A3.1 of the North American Specification for the Design of Cold-Formed Steel Structural Members, (AISI S100). Material 43 mil (18 gauge) and lighter shall have minimum yield strength of 33 ksi. Material 54 mil (16 gauge) and heavier shall have a minimum yield strength of 50ksi.
2.03 Electrical metallic tube (EMT) shall be ANSI C80.3/UL 797 carbon steel with G90 galvanizing. EMT shall have minimum yield strength (FY) of 30 ksi and minimum ultimate strength (FU) of 48 ksi.

3. ATTACHMENT OF HANGER AND BRACING WIRES

3.01 Separate all ceiling hanger and bracing wires at least 6 inches from all unbraced ducts, pipes, conduit, etc.
3.02 Hanger and bracing wires shall not attach to or bend around obstructions including but not limited to piping, ductwork, conduit and equipment.
3.03 Hanger wires that are more than one (horizontal) in six (vertical) out of plumb shall have counter-sloping wires.
3.04 Slack safety wires shall be considered hanger wires for installation and testing requirements.
3.05 Hanger and bracing wire anchorage to the structure shall be installed in such a manner that the direction of the anchorage aligns closely with the direction of the wire (e.g., bracing wire ceiling clips must be bent as shown in the details and rotated as required to align closely with the direction of the wire, screw eyes in wood must be installed so they align closely with the direction of the wire, etc.).

4. FASTENERS AND WELDING

4.01 Sheet metal screws shall comply with ASTM C1513 and ASME B18.6.3. Penetration of screws through joined material shall not be less than three exposed threads.
4.02 Expansion anchors shall be: [RDP to indicate manufacturer, product, evaluation report number and test load for each size specified per CBC 1910A.5.4.]
4.03 Power-Actuated Fasteners shall be: [RDP to indicate manufacturer, product, evaluation report number.]
4.04 If not otherwise specified in the evaluation report, power-actuated fasteners installed in steel shall be installed so the entire pointed end of the fastener is driven through the steel member
4.05 Power-actuated fasteners in concrete or masonry are not permitted for bracing wires.
4.06 Concrete reinforcement and prestressing tendons shall be located by non-destructive means prior to installing post-installed anchors.
4.07 Welding shall be in accordance with AWS D1.3 using E60XX series electrodes.

5. TESTING

5.01 All field testing must be performed in the presence of the project inspector.
5.02 Post-installed anchors in concrete used to support hanger wires shall be tested at a frequency of 10 percent. Power-actuated fasteners in concrete shall be field tested for 200 pounds in tension. All other post-installed anchors in concrete shall be tested in accordance with CBC Section 1910A.5.
5.03 Post-installed anchors in concrete used to attach bracing wires shall be tested at a frequency of 50 percent in accordance with CBC Section 1910A.5.

6. LUMINAIRES

6.01 All luminaires shall be positively attached to the ceiling suspension systems by mechanical means to resist a horizontal force equal to the weight of the luminaire. A minimum of two screws or approved fasteners are required at each luminaire, per ASTM E580 Section 5.3.1.
6.02 Surface-mounted luminaires shall be attached to the main runner with at least two positive clamping devices. The clamping device shall completely surround the supporting ceiling runner and be made of steel with a minimum thickness of #14 gauge. Rotational spring catches do not comply. A #12 gauge slack safety wire shall be connected from each clamping device to the structure above. Provide additional supports when a luminaire is 8 feet or longer or exceeds 56 pounds. Maximum spacing between supports shall not exceed 8 feet.
6.03 Luminaires weighing less than or equal to 10 pounds may be supported directly on the ceiling runners, shall have a minimum of one #12 gauge slack safety wire connected from the fixture housing to the structure above.
6.04 Luminaires weighing greater than 10 pounds but less than or equal to 56 pounds may be supported directly on the ceiling runners, but they shall have a minimum of two #12 gauge slack safety wires connected from the fixture housing at diagonal corners to the structure above.
Exception: All luminaires greater than two by four feet weighing less than 56 pounds shall have a #12 gauge slack safety wire at each corner.
6.05 All luminaires weighing greater than 56 pounds shall be independently supported by not less than four taut #12 gauge hanger wires (one at each corner) attached from the fixture housing to the structure above or other approved hangers. The four taut #12 gauge wires or other approved hangers, including their attachment to the structure above, shall be capable of supporting four times the weight of the fixture.

7. SERVICES WITHIN THE CEILING

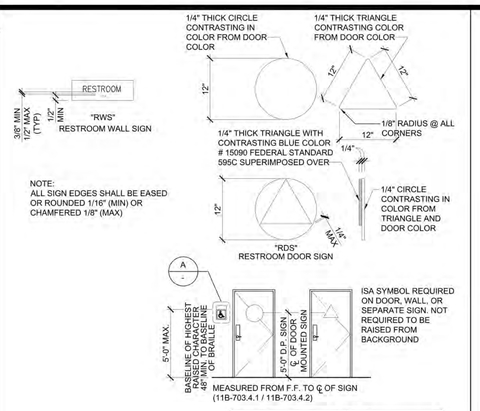
7.01 All flexible sprinkler hose fitting mounting brackets, ceiling-mounted air terminals or other services shall be positively attached to the ceiling suspension systems by mechanical means. Screws or approved fasteners are required. A minimum of two attachments are required at each component.
7.02 Ceiling-mounted air terminals or other services weighing less than or equal to 20 pounds shall have one #12 gauge slack safety wire attached from the terminal or service to the structure above.
7.03 Flexible sprinkler hose fittings, ceiling-mounted air terminals or other services weighing more than 20 pounds but less than or equal to 56 pounds shall have two #12 gauge slack safety wires (at diagonal corners) connected from the terminal or service to the structure above.
7.04 Flexible sprinkler hose fittings, ceiling-mounted air terminals or other services weighing more than 56 pounds shall be supported directly from the structure above by not less than four taut #12 gauge hanger wires attached from the terminal or service to the structure above or other approved hangers.

8. OTHER DEVICES WITHIN THE CEILING

8.01 All lightweight miscellaneous devices, such as strobe lights, occupancy sensors, speakers, exit signs, etc., shall be attached to the ceiling grid. In addition, devices weighing more than 10 pounds shall have a #12 gauge slack safety wire anchored to the structure above. Devices weighing more than 20 pounds shall be supported independently from the structure above.

NOTE:
ACOUSTICAL PANELS SHALL BE 5/8" MINIMUM THICK, MINERAL FIBERBOARD OR VINYL FACED FIBERGLASS LAY-IN PANELS SQUARE EDGE AND CBC CLASS C FLAME-SPREAD 76-200; SMOKE-DEVELOPED 0-450.

NOTE:
PER CBC SECTION 718.2.1. FIRE BLOCKS MAY BE OF GYPSUM BOARD, CEMENT FIBER BOARD, BATTS OR MINERAL OR GLASS FIBER, OR OTHER APPROVED MATERIALS INSTALLED IN SUCH A MANNER AS TO BE SECURELY RETAINED IN PLACE. LOOSE-FILL INSULATION MATERIAL SHALL NOT BE USED AS A FIRE BLOCK UNLESS SPECIFICALLY TESTED IN THE FORM AND MANNER INTENDED FOR USE TO DEMONSTRATE ITS ABILITY TO REMAIN IN PLACE AND TO RETARD THE SPREAD OF FIRE AND HOT GASES. (SECTION 718.2.1). FLAME SPREAD - 25 SMOKE DEVELOPMENT - 50 MAX.
FIRE BLOCKING IS NOT REQUIRED WITHIN CONCEALED SPACES CONSTRUCTED OF NON-COMBUSTIBLE MATERIALS



SIGNAGE TEMPLATES

COORDINATE WITH SIGNAGE NOTES (BELOW)

SIGNAGE NOTES

1. CHARACTER TYPE: CHARACTERS ON TACTILE SIGNS SHALL BE RAISED 1/32" (0.794 mm) MINIMUM ABOVE THEIR BACKGROUND AND SHALL BE SANS SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE 2 BRAILLE. (SEE NOTE 5 BELOW) 11B-703.2.1 & 11B-703.2.2 &11B-703.23.

2. RAISED CHARACTER HEIGHT: CHARACTER HEIGHT MEASURED VERTICALLY FROM THE BASELINE OF THE CHARACTER SHALL BE 5/8" (15.9 mm) MINIMUM AND 2 INCH (51 mm) MAXIMUM BASED ON THE HEIGHT OF THE UPPERCASE LETTER "I". 11B-703.2.5

3. FINISH AND CONTRAST: CHARACTERS AND THEIR BACKGROUND SHALL HAVE A NON-GLARE FINISH SYMBOLS. SYMBOLS OF ACCESSIBILITY SHALL CONTRAST WITH THEIR BACKGROUND WITH EITHER A LIGHT SYMBOL ON A DARK BACKGROUND OR A DARK SYMBOL ON A LIGHT BACKGROUND. 11B-703.7.1.

4. PROPORTIONS: RAISED CHARACTERS ON SIGNS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60% MIN AND 110% MAX OF THE HEIGHT OF THE UPPERCASE LETTER "I". STROKE THICKNESS OF THE UPPERCASE "I" SHALL BE 15% MAX OF THE HEIGHT OF THE CHARACTER. 11B-703.2.4 + 11B-703.2.6

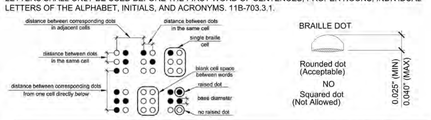
VISUAL CHARACTERS ON SIGNS SHALL BE SELECTED FROM FONTS WHERE THE WIDTH OF THE UPPERCASE LETTER "O" IS 60% MIN AND 110% MAX OF THE HEIGHT OF THE UPPERCASE LETTER ' I '. STROKE THICKNESS OF THE UPPER CASE ' I ' SHALL BE 10% MIN, AND 20% MAX OF THE HEIGHT OF THE CHARACTER.

TEMPLATE FOR CHECKING CHARACTER AND STROKE WIDTH TO HEIGHT PROPORTIONS:

5. CHARACTER SPACING: CHARACTER SPACING SHALL BE MEASURED BETWEEN THE TWO CLOSEST POINTS OF ADJACENT RAISED CHARACTERS WITHIN A MESSAGE, EXCLUDING WORD SPACES. WHERE CHARACTERS HAVE RECTANGULAR CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/8" (MIN) AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH (MAX). WHERE CHARACTERS HAVE OTHER CROSS SECTIONS, SPACING BETWEEN INDIVIDUAL RAISED CHARACTERS SHALL BE 1/16" (MIN) AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH (MAX) AT THE BASE OF THE CROSS SECTIONS, AND 1/8" (MIN) AND 4 TIMES THE RAISED CHARACTER STROKE WIDTH (MAX) AT THE TOP OF THE CROSS SECTIONS. CHARACTERS SHALL BE SEPARATED FROM RAISED BORDERS AND DECORATIVE ELEMENTS 3/8" (MIN). 11B-703.2.7

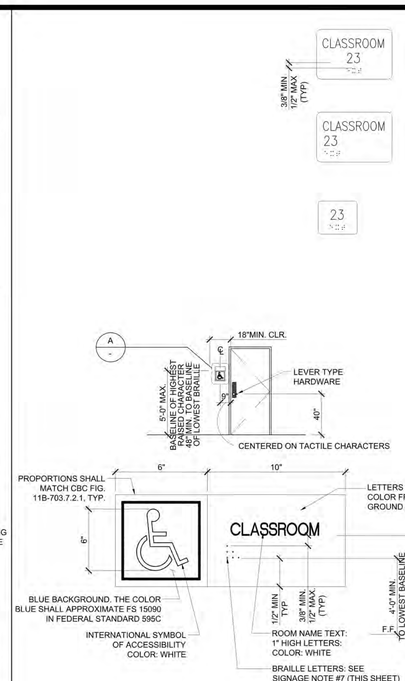
6. LINE SPACING: SPACING BETWEEN THE BASELINES OF SEPARATE LINES OF RAISED CHARACTERS WITHIN A MESSAGE SHALL BE 135% (MIN) AND 170% (MAX) OF THE RAISED CHARACTER HEIGHT. 11B-703.2.8

7. BRAILLE: BRAILLE SHALL BE CONTRACTED (GRADE 2) AND SHALL COMPLY WITH SECTIONS 11B-703.3 AND 11B-703.4. DIMENSIONS AND CAPITALIZATION: BRAILLE DOTS SHALL HAVE A DOMED OR ROUNDED SHAPE AND SHALL COMPLY WITH TABLE 11B-703.3.1. THE INDICATION OF AN UPPERCASE LETTER OR LETTERS SHALL ONLY BE USED BEFORE THE FIRST WORD OF SENTENCES, PROPER NOUNS, INDIVIDUAL LETTERS OF THE ALPHABET, INITIALS, AND ACRONYMS. 11B-703.3.1.



MEASUREMENT RANGE	MINIMUM IN INCHES MAXIMUM IN INCHES
Dot base diameter	0.059 (1.5 mm) to 0.063 (1.6mm)
Distance between two dots in the same cell[1] (Reference 11)	0.100 (2.5 mm)
Distance between corresponding dots in adjacent cells[1] (Reference 11)	0.300 (7.6 mm)
Dot height	0.025 (0.6 mm) to 0.037 (0.9 mm)
Distance between corresponding dots from one cell directly below[1] (Reference 11)	0.395 (10 mm) to 0.400 (10.2 mm)

1. Measured center to center.



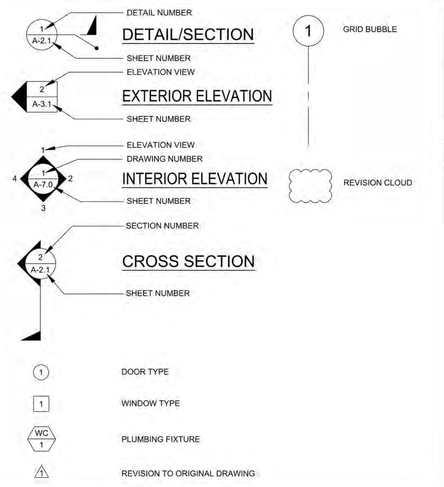
NOTE:
SIGN MATERIAL TO BE 1/8" THK. E.S. PLASTIC W/1/32" RAISED GRAPHICS AND LETTERS. PROVIDE MECHANICAL MOUNTING W/ VANDAL RESISTANT FASTENERS. CBC SECTION 11B-703. WHERE RAISED BOARDERS OCCUR, PROVIDE 1/2" MIN. CLEARANCE BETWEEN TOP OF BOARDER AND LOWEST LEVEL OF BRAILLE TEXT.

A ROOM IDENTIFCATION ROOM SIGNAGE (BY DISTRICT)

FOR SITE SPECIFIC LOCATIONS ARCHITECT TO PROVIDE BUILDING / ROOM IDENTIFICATION SIGNS. DETAILS AND LOCATIONS OF SIGNAGE TO BE INDICATED.
COORDINATE WITH SIGNAGE NOTES 1 THROUGH 7 ON THIS SHEET.

THIS DETAIL FOR REFERENCE ONLY

SYMBOLS LEGEND



ABBREVIATIONS

AB	ANCHOR BOLT	FIN	FINISH	P. OR PL.	PLATE
ABS	ABSOLUTE	FLR	FLOOR	PC	PRE-CHECKED
ABV	ABOVE	FN	FIELD NAILING	PLAS	PLASTER
ACC	ACCESS	FND	FOUNDATION	PLYWD	PLYWOOD
ADDL	ADDITIONAL	FOC	FACE OF CONCRETE	PNL	PANEL
ADJ	ADJACENT	FOS	FACE OF STUD	POC	POINT OF CONNECTION
AFF	ABOVE FINISH FLOOR	FTG	FOOTING	POT	PATH OF TRAVEL
AFG	ABOVE FINISH GRADE	FOF	FACE OF FINISH	PSF	POUNDS PER SQUARE FOOT
AGC	ABOVE GRADE CONCRETE			PSI	POUNDS PER SQUARE INCH
ALT	ALTERNATE	GA	GAUGE	PT	PRESSURE TREATED
AOR	ARCHITECT OF RECORD	GALV	GALVANIZE		
APPROX	APPROXIMATE	GC	GENERAL CONTRACTOR	RAG	RETURN AIR GRILLE
ARCH	ARCHITECTURAL / ARCHITECT	GR	GRADE	RD	ROOF DRAIN
		GYP	GYPSUM	REF	REFERENCE
BD	BOARD	GYP BD	GYPSUM BOARD	REINF	REINFORCE
BGC	BELOW GRADE CONCRETE			REQ'D	REQUIRED
BLDG	BUILDING	HB	HOSE BIBB	REV	REVISION
BLK	BLOCK	HD	HEAVY DUTY	RF	ROOF
BLKG	BLOCKING	HDR	HEADER	RM	ROOM
BM	BEAM	HDW	HARDWARE	RO	ROUGH OPENING
BOT	BOTTOM (OR BTM)	HF	HEM FIR	ROH	ROOF OVERHANG
BTWN	BETWEEN	HORIZ	HORIZONTAL		
BU	BUILT UP	HT	HEIGHT	SCHED	SCHEDULE
CAB	CABINET	HVAC	HEATING, VENTILATING, AND AIR CONDITIONING	SEC	SECTION
CBC	CALIFORNIA BUILDING CODE			SHT	SHEET
CI	CAST IRON			SHTG	SHEATHING
CJ	CONTROL JOINT	INCL	INCLUDED	SIM	SIMILAR
CJP	COMPLETE JOINT PENETRATION	INFO	INFORMATION	SPEC	SPECIFICATION
		INT	INTERIOR	SQ	SQUARE
℄	CENTER LINE			SST	STAINLESS STEEL
CLG	CEILING	J-BOX	JUNCTION BOX	STD	STANDARD
CO	CLEAN OUT	JST	JOIST	STIFF	STIFFENER
COL	COLUMN	JT	JOINT	STL	STEEL
CONC	CONCRETE			STS	SELF-TAPPING SCREW
CONN	CONNECTION	KO	KNOCK OUT	STSMS	SELF-TAPPING SHEET METAL SCREW
CONST	CONSTRUCTION				
CONT	CONTINUOUS	LAB	LABORATORY		
CPT	CARPET	LAM	LAMINATED	T&B	TOP AND BOTTOM
CSK	COUNTERSINK	LAV	LAVATORY	T&G	TONGUE AND GROOVE
CTR	CENTER	LB	POUNDS	TEL	TELEPHONE
		LT	LIGHT	THK	THICK
DBL	DOUBLE	LT WT	LIGHT WEIGHT	TOC	TOP OF COLUMN
DET	DETAIL	LVR	LOUVER	TOS	TOP OF STEEL
DF	DOUGLAS FIR			TS	TUBE STEEL
DIA OR ⌀	DIAMETER	MAX	MAXIMUM	TV	TELEVISION
DIAG	DIAGONAL	MB	MACHINE BOLT	TYP	TYPICAL
DIM	DIMENSION	MED	MEDIUM		
DSA	DIVISION OF THE STATE ARCHITECT	MFR	MANUFACTURER	UBC	UNIFORM BUILDING CODE
		MIN	MINIMUM	UON	UNLESS OTHERWISE NOTED
DWG	DRAWING	MISC	MISCELLANEOUS		
		MOD	MODULE	UR	URINAL
(E)	EXISTING	MTL	METAL		
EA	EACH			VERT	VERTICAL
EJ	EXPANSION JOINT	(N)	NEW	VCT	VINYL COMPOSITION TILE
ELEV	ELEVATION	N	NORTH		
EN	END NAIL	NIC	NOT IN CONTRACT (NOT IN SILVER CREEK'S SCOPE OF WORK	W/	WITH
EQ	EQUAL			WC	WATER CLOSET
EQUIP	EQUIPMENT	NO	NUMBER	WCO	WALL CLEAN OUT
EW	EACH WAY	NTS	NOT TO SCALE	WD	WOOD
EXT	EXTERIOR			WH	WATER HEATER
		OC	ON CENTER	WIC	WOODWORK INSTITUTE OF CALIFORNIA
FA	FIRE ALARM	OD	OUTSIDE DIAMETER		
FCO	FLOOR CLEAN OUT	OH	OPPOSITE HAND	WND	WINDOW (OR WDW)
FF	FINISH FLOOR	OPNG	OPENING	W/O	WITHOUT
FG	FINISH GRADE	OPP	OPPOSITE	WP	WATER PROOF

SPECIFICATIONS

DIVISION 5 - METALS
- ALL WELDED JOINTS AND SURFACES SHALL BE GROUNDED SMOOTH, NO SHARP OR ABRASIVES CORNERS, EDGES OR SURFACES. WALL SURFACES ADJACENT TO HANDRAILS SHALL BE SMOOTH.
- ALL HANDRAILS SHALL BE ROUND OR SHALL HAVE RADIUSED EDGES (r = 1/8" MIN)

DIVISION 6 - WOOD AND PLASTICS
- ALL CABINET AND DRAWERS WILL HAVE U-SHAPED WIRE PULLS

DIVISION 9 - FINISHES
- CEILING INSTALLATION SHALL BE PER THE NOTES PROVIDED ON THIS SHEET.

DIVISION 10 - SPECIALITIES
- ALL TOILET ACCESSORIES SHALL BE INSTALLED AT THE HEIGHT AND CLEARANCES SHOWN ON SHEET P-1.01

DIVISION 22 - PLUMBING
- FAUCETS SHALL BE LEVER OPERATED (4" MIN BLADE) OR SHALL BE PUSH TYPE OR AUTOMATIC ELECTRONICALLY CONTROLLED. CONTROLS TO BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST TO OPERATE.
- FORCE TO ACTIVATE CONTROLS SHALL NOT BE GREATER THAN 5 LBS
- FORCE TO REMAIN OPEN FOR A MINIMUM OF 10 SECONDS WHEN SELF CLOSING VALVES ARE USED
- PIPE COVERS SHALL BE PROVIDED FOR WATER LINES AND DRAIN PIPES UNDER ACCESSIBLE SINKS AND LAVATORIES
- ACCESSIBLE SINKS SHALL NOT BE DEEPER THAN 6 1/2"

PROJECT SPECIFIC STATE AGENCY APPROVAL

PROJECT NAME:
SACRAMENTO CITY USD
McCLATHY HIGH SCHOOL
(1) 8'-6" X 21'-6" RESTRM /
CUSTODIAL BLDG
(1) 8'-6" X 32'-0" RESTRM BLDG

SHEET TITLE:
SYMBOLS LEGEND, ABBREVIATIONS & ADA SIGNAGE

REVISIONS

1	
2	
3	
4	
5	

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-122203 INC.
REVIEWED FOR:
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 29775 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
8'-6" PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-27-2023
P.C. SHEET NUMBER	A-0.1

LIONÄKIS
2025 Nineteenth Street
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CONSULTANT

SEAL
LICENSED ARCHITECT BRIAN BELL C28712 REN. 01-31-25 STATE OF CALIFORNIA

PROJECT
MCCLATCHY HIGH SCHOOL
ATHLETIC FIELD RENOVATION
3066 FREEPORT BLVD,
SACRAMENTO, CA 95818

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
425 1ST AVE, SACRAMENTO, CA 95818.

ISSUED

MARK	DATE	DESCRIPTION
	12/7/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

LIONAKIS PROJECT NO:	023040
DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	
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TITLE
SYMBOLS LEGEND, ABBREVIATIONS & ADA SIGNAGE

SHEET
A-0.1

BIM 360://23040 SCUSD McClatchy HS Fields/023040_ARCHSITE_R20_CENTRAL.rvt
12/8/2023 8:02:28 AM

WILDLAND URBAN INTERFACE REQUIREMENTS ☐

WHEN THIS BUILDING IS TO BE INSTALLED WHERE THE REQUIREMENTS OF CHAPTER 7A OF THE 2022 CBC ARE APPLICABLE COMPLIANCE WITH THE APPLICABLE REQUIREMENTS SHALL BE AS OUTLINED BELOW:

CHAPTER 7A REQUIREMENTS:

705A ROOFING

705A.1 - ROOF SHALL BE CLASS 'A'.
705A.2 - NOT APPLICABLE. NO VOIDS OCCUR. ROOF IS APPLIED DIRECTLY.
705A.3 - NOT APPLICABLE. NO VALLEYS OCCUR.
705A.4 - LEAF GUARDS/COVERS SHALL BE PROVIDED AT ALL GUTTERS.

706A VENTS

706A.2 - THE UNDER-FLOOR ACCESS AND VENT OPENINGS SHALL BE COVERED WITH CORROSION RESISTANT WIRE MESH WITH A CLEAR OPENING NOT EXCEEDING 1/8".
706A.3 - THE SOFFIT VENTS SHALL BE VULCAN TECHNOLOGIES MODEL #VE OR VSC SOFFIT VENT COVERS (PER CASFM LISTING 8165-2192:0100).

707A EXTERIOR COVERINGS

707A.3 - EXTERIOR WALL FINISH SHALL BE PLASTER (NON-COMBUSTIBLE) OVER 1/2" OSB OVER STUDS OR 19/32" DURATEMP SIDING OVER STUDS (PER SFM LISTING# 8140-2031:0004).
707A.4 - NOT APPLICABLE. NO OPEN ROOF EAVES OCCUR.
707A.5 - SOFFIT FINISH SHALL BE PLASTER (NON-COMBUSTIBLE) OVER FRAMING OR ALLURA FIBER-CEMENT PANELS (NON-COMBUSTIBLE) (PER ESR-1668).
707A.6 - NOT APPLICABLE. DOES NOT OCCUR
707A.7 - NOT APPLICABLE. DOES NOT OCCUR
707A.8 - NOT APPLICABLE. DOES NOT OCCUR
707A.9 - NOT APPLICABLE. DOES NOT OCCUR

708A EXTERIOR DOORS AND WINDOWS

708A.2 - NOT APPLICABLE. DOES NOT OCCUR
708A.3 - EXTERIOR DOORS AND FRAMES ARE NON-COMBUSTIBLE (HOLLOW METAL).
708A.4 - NOT APPLICABLE.

709A - DECKING - THE EXTERIOR DECKING (WHERE APPLICABLE) IS A NON-COMBUSTIBLE STEEL FRAME AND DECK. SKIRTING MATERIAL (WHERE APPLICABLE) SHALL BE 19/32" DURATEMP SIDING (PER SFM LISTING# 8140-2031:0004).

710A - NOT APPLICABLE.

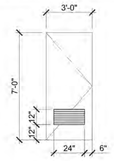
DOOR SCHEDULE

DOOR NO	WIDTH	HEIGHT	DOOR TYPE	QTY	DOOR MAT/FIN	FRAME MAT/FIN	HARDWARE SET	LOCKABLE FROM INT.	NOTES
1	3'-0"	7'-0"	A		HM	WF	HW-1	YES	LOUVER VANDAL PROOF ANEMOSTAT #AFDL
2	3'-0"	7'-0"	A		HM	WF	HW-2	NO	

DOOR MATERIAL AND FINISH ABBREVIATIONS

HM:	18GA HOLLOW METAL	KD:	KNOCK DOWN FRAME	ANOD:	CLEAR ANODIZED ALUMINUM FRAME
WF:	16GA WELDED FRAME	SCL:	SOLID CORE WOOD LEGACY		
AL:	ALUMINUM	HC:	HOLLOW CORE WOOD		
SST:	STAINLESS STEEL	PT:	PAINTED		

DOOR TYPES & NOTES



DOOR TYPE "A"

1. DOOR HANDLE FOR LOCKSETS AND PANIC HARDWARE TO BE CENTED AT 40" AFF DOOR SHALL BE OPENABLE FROM INSIDE WITH A SINGLE MOTION w/o THE USE OF ANY TOOLS, EFFORT, OR SPECIAL KNOWLEDGE. LEVERS TO RETURN TO WITHIN 1/2" OF DOOR
2. ALL DOORS SHALL BE 1 3/4" THICK U.N.O.
3. CLOSER SHALL BE SET FOR MAXIMUM OPENING PRESSURE OF 5 LBS AT EXTERIOR AND INTERIOR DOORS.
4. PANIC HARDWARE IS REQUIRED TO BE INSTALLED WHEN THE CONFIGURATION OF ANY ROOM PROVIDES AN OCCUPANT LOAD OF 50 OR GREATER.
5. ALL HARDWARE SHALL COMPLY WITH SILVER CREEK'S SPECS ON THIS SHEET AND CBC SECTIONS 11B-206.5,11B-404.1 & 1010.
6. DOOR CLOSER SHALL BE ADJUSTED TO SO THAT FROM AN OPEN POSITION OF 70°, THE DOOR WILL TAKE AT LEAST 5 SECONDS TO MOVE TO A POINT 3" FROM THE LATCH, MEASURED TO THE LANDING SIDE OF THE DOOR
7. PANIC AND FIRE EXIT HARDWARE. WHERE THIS TYPE HARDWARE IS INSTALLED, IT SHALL COMPLY WITH THE FOLLOWING
   - THE ACTUATING PORTION OF THE RELEASING DEVICE SHAL EXTEND AT LEASE ONE-HALF OF THE DOOR LEAF WIDTH.
   - THE MAXIMUM UNLATCHING FORCE SHALL NOT EXCEED 5 LBS PER THE 2022 CBC APPROVED BY AUTHORITY W/JURISDICTION, PANIC HARDWARE SHALL COMPLY WITH CBC SECTION 1010.1.10
8. ALL HAND ACTIVATED HARDWARE SHALL BE LEVER TYPE, PANIC BARS, PUSH/PULL TYPE OR 'U' SHAPED HANDLES
9. ALL HAND ACTIVATED HARDWARE SHALL BE EASY TO OPERATE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF WRIST TO OPERATE.
10. FLOOR STOPE AHLL BE LOCATED 4" MAX FROM FACE OF WALL.

FINISH SCHEDULE

ROOM NAME	FLOORING		WALL FINISH				CEILING		NOTES
	FLOOR	BASE	FRONT	LEFT	REAR	RIGHT	CEILING	CEILING HT	
RESTROOM	EP	SC	CT-2	CT-2	CT-2	CT-2	GYP	8'-6"	
JANITOR ROOM	EP	SC	FRP	FRP	FRP	FRP	GYP	8'-6"	

FLOOR, WALL, CEILING MATERIALS

FLOORING
- SV: SHEET VINYL (STANDARD APPLICATION)
- CT: CERAMIC TILE (OPTIONAL APPLICATION)
- EP: EPOXY FLOORING

BASE
- SC: 6" SHEET VINYL SELF COVE BASE (STANDARD APPLICATION)
- RB: 4" RUBBER BASE (OPTIONAL APPLICATION)
- CT: CERAMIC TILE (OPTIONAL APPLICATION)

WALLS
- FRP: F.R.P. OVER 1/2" OR 5/8" M.R. GYP. BD.
- CT1: CERAMIC TILE 4' HIGH (OPTIONAL APPLICATION)
- CT2: CERAMIC TILE FULL HEIGHT (OPTIONAL APPLICATION)
- NF: NO FINISH

CEILING
- RCP: ARMSTRONG #2910 ACOUSTICAL TILE IN HEAVY DUTY GRID @ 8'-0" (STANDARD APPLICATION)
- GYP: 1/2" GYP. BOARD AT 8'-6" (OPTIONAL APPLICATION)

INSULATION SPECIFICATIONS

MOISTURE PROTECTION INSULATION:

DESCRIPTION OF WORK: THE FURNISHING AND INSTALLING OF ALL INSULATION FOR ALL CEILING, FLOOR AREAS, PIPES AND EXTERIOR WALLS. (CLASS A = 0-25 FLAME SPREAD:) SMOKE DEVELOPMENT DENSITY LESS THAN 450.

MATERIAL:
INSULATING MATERIAL FOR WALLS SHALL BE FIBERGLASS BATTS (UNFACED) AND SHALL COMPLY WITH CBC 720.1, 720.2, 720.3, 720.5 AND 720.7. INSULATION SHALL BE AS MANUFACTURED BY OWENS-CORNING, JOHNS-MANVILLE, OR EQUAL.

INSULATING MATERIAL FOR ROOFS SHALL BE CLOSED CELL SPRAY FOAM AND SHALL COMPLY WITH CBC 720.1, 720.2, 720.3, 720.5 AND 720.7. INSULATION SHALL HAVE A MINIMUM R-VALUE OF R-6 PER EACH INCH OF THICKNESS, AN AIR PERMEANCE RATE OF NOT MORE THAN 0.02 L/s AT 75 Pa, AND A WATER VAPOR TRANSMISSION RATE OF NOT MORE THAN 0.9 PERMS. THE FOAM SHALL BE APPLIED TO FILL ALL VOIDS IN THE ROOF FRAMING MEMBERS.

MIN INSULATION VALUES:

EXTERIOR WALL INSULATION (MIN.)
- ☑ R-13 (4" WALL @ UNCONDITIONED RESTROOM MODULE ONLY)
- ☐ R-19 (6" WALL)
- ☐ R-30 (8" WALL)

INTERIOR WALL INSULATION (MIN.)
R-13

FLOOR INSULATION
- ☑ NONE (CONCRETE MASS)
- ☐ R-19 (MIN)

ROOF INSULATION (MIN.)
R-30 (CLOSED CELL SPRAY FOAM)

FINISH NOTES

1. ALL FINISHES SHALL COMPLY WITH CBC, CFC AND TITLE 19 CCR.
2. PREPARATION FOR SUB-FLOOR TO ACCEPT FINISH FLOORING IS BY FLOORING CONTRACTOR. PLYWOOD SUB-FLOOR IS 2.4.1 PLYWOOD. OUTER PLYWOOD IS PLUGGED AND TOUCH SANDED. ANY DEFORMITIES DUE TO STANDARD CONSTRUCTION PRACTICES SHALL BE FILLED AND SANDED BY FLOORING CONTRACTOR. THE JOINT AT THE MODLINE SHALL NOT BE LARGER THAN 1/8" AND SHALL BE FILLED AND SANDED BY FLOORING CONTRACTOR.
3. RESILIENT FLOORING DEMONSTRATING A COEFFICIENT OF FRICTION OF AT LEAST 0.6 PER ASTM D2047, WILL BE ACCEPTED AS MEETING THE INTENT OF SLIP RESISTANCE.

DOOR HARDWARE

SINGLE OCCUPANT RESTROOM - EXTERIOR DOOR HW-1

LOCKSET	SCHLAGE L9456T X 06A	Finish 630	
OCCUPANT INDICATOR	SCHLAGE #L283-722	Finish 630	
HINGE	IVES 224HD (180° OPENING)	Finish Alum	
CYLINDER (I/C)	SCHLAGE 20-057	Finish 626	
PERM CORE	SCHALGE 20-740-EP	Finish 626	
CLOSER	LCN 4040XP X REG	Finish 689	
KICK PLATE	TRIMCO K0050 10" X 34 LDW X B4E	Finish 630	
MOP PLATE	TRIMCO K0050 6" X 35 LDW X B4E	Finish 630	
WALL STOP	TRIMCO 1270CV	Finish 626	
SEAL	PEMKO S88D		or app. mfg.
THRESHOLD	PEMKO 2727A X 270A 10", WRAP FRAME STOPS, BEVELED MITER ENDS	Finish Alum	or equal
DOOR BOTTOM	PEMKO 315CN		or app. mfg
LOUVER	ANEMO 24 x 12	Finish Bronze	or equal

JANITOR ROOM - EXTERIOR DOOR HW-2

LOCKSET	SCHLAGE AD-300-CY-70-MT-RHO-L12/24 VDC W/ BUILT IN REX	Finish 626	
CORE	SCHLAGE 20-765-XP	Finish 626	
BUTTS	IVES 5BB1HW X 8-WIRE	Finish 630	
WIRE HARNESS	SCHLAGE CON-6W		
CLOSER	LCN 4040XP X CUSH INSTALLED AT 90°	Finish 689	
KICK PLATE	TRIMCO K0050 10" X 34 LDW X B4E	Finish 630	
SEAL	PEMKO S88D		or app. mfg
THRESHOLD	PEMKO 176A	Finish Alum	or equal
DOOR BOTTOM	PEMKO 315CN		
RAIN DRIP	PEMKO 346C X 40	or equal	

PREP FOR (2) ALARM CONTACTS BY SECURITY

PROJECT SPECIFIC STATE AGENCY APPROVAL

PROJECT NAME:
SACRAMENTO CITY USD
McCLATHY HIGH SCHOOL
(1) 8'-6" X 21'-6" RESTRM / CUSTODIAL BLDG
(1) 8'-6" X 32'-0" RESTRM BLDG

SHEET TITLE:
SCHEDULES

REVISIONS
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-122203 INC.
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARKEY 29776 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
8'-6" PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
A-0.2

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SEAL
LICENSED ARCHITECT BRIAN BELL C28712 REN 01-31-25 STATE OF CALIFORNIA

PROJECT
MCCLATCHY HIGH SCHOOL
ATHLETIC FIELD RENOVATION

3066 FREEPORT BLVD,
SACRAMENTO, CA 95818

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

425 1ST AVE, SACRAMENTO, CA 95818.

ISSUED

MARK	DATE	DESCRIPTION
	12/7/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

LIONAKIS PROJECT NO:	023040
DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	
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TITLE
SCHEDULES

SHEET
A-0.2

STATE OF CALIFORNIA
Nonresidential Building Commissioning
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-CXR-E

This document is used to demonstrate compliance with mandatory commissioning requirements in 120.8 for nonresidential buildings and hotel/motel or mixed-use buildings with nonresidential spaces. This document does not demonstrate compliance with commissioning requirements within Title 24, Part 11, which need to be documented separately if they apply.

Project Name:	40 Toilet PC-12x40	**Report Page:**	(Page 1 of 6)
Project Address:		**Date Prepared:**	2023-02-20T12:52:47-05:00

A. GENERAL INFORMATION

01	Project Location (city)	NA	04	Building Size (ft²)	480
02	Occupancy Type	Nonresidential	05	Nonresidential Conditioned Floor Area (ft²)	< 10,000 ft²
03	Project Type	Newly constructed	06	HVAC System Type	Unitary or packaged equipment each serving one zone
			07	Climate Zone	10

B. PROJECT SCOPE

Based on project information provided in Table A, Table B indicates which commissioning related requirements apply per 120.8. Table B is not editable by the user.

Commissioning Requirements per 120.8

01	Table F: Design Review Kickoff	120.8(d)1 and 120.8(d)2	The design review kickoff meeting establishes who will play the role of the design reviewer, the project schedule and identify owner's requirements. This meeting should be conducted during schematic design.
02	Table G: Owner's Project Requirements (OPR)	120.8(d)3	This requirement does not apply.
03	Table H: Basis of Design (BOD)	120.8(e)	This requirement does not apply.
04	Table I: Design Review	120.8(d) and 120.8(e)	The design reviewer(s) reviews the construction documents for clarity, completeness, and adherence to the owner's goals. Commissioning measures must be included in the construction documents to facilitate the design review and commissioning. For projects with >= 10,000 ft² of nonresidential conditioned floor area, the design review is for adherence with the Owner's Project Requirements (OPR) and Basis of Design (BOD). This should be conducted during design.
05	Table J: Commissioning Plan	120.8(f)1	This requirement does not apply.
06	Table K: Functional Performance Testing	120.8(g)	This requirement does not apply.
07	Table L: Documentation and Training	120.8(h)	This requirement does not apply.
08	Table M: Commissioning Report	120.8(i)	This requirement does not apply.

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Report Version: 2022.0.000 Schema Version: rev 20220101 | Compliance ID: 90302-0223-0003 Report Generated: 2023-02-20 09:52:49

STATE OF CALIFORNIA
Nonresidential Building Commissioning
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-CXR-E

Project Name:	40 Toilet PC-12x40	**Report Page:**	(Page 2 of 6)
Project Address:		**Date Prepared:**	2023-02-20T12:52:47-05:00

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with commissioning requirements per 120.8. This table is not editable by the user. If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

01	02	03	04	05	06	07	08	09
Design Kickoff Review	Owner's Project Requirements	Basis of Design	Design Review	Commissioning Plan	Functional Performance Testing	Documentation and Training	Commissioning Report	Compliance Results
Table F	Table G	Table H	Table I	Table J	Table K	Table L	Table M	
Yes			Yes					COMPLIES
03	Design Reviewer(s) for the project include:				John Starlin			COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with unedittable 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.

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Report Version: 2022.0.000 Schema Version: rev 20220101 | Compliance ID: 90302-0223-0003 Report Generated: 2023-02-20 09:52:49

STATE OF CALIFORNIA
Nonresidential Building Commissioning
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-CXR-E

Project Name:	40 Toilet PC-12x40	**Report Page:**	(Page 3 of 6)
Project Address:		**Date Prepared:**	2023-02-20T12:52:47-05:00

F. DESIGN REVIEW KICKOFF MEETING

This table indicates that the design reviewer meets the qualification requirements per Title 24, Part 1 Section 10-103(a)2 and demonstrates compliance with design review kickoff requirements per 120.8(d)2. This meeting should occur during the Schematic Design phase of the project.

Design Review Kickoff Meeting Details

01	Date of Design Review Kickoff Meeting			2022-12-05	
02	Meeting Attendees: (one person may play multiple roles)				
☑	Owner/Facility Manager:	Ryan McIntosh	☒	Design Reviewer(s):	John Starlin
☐	Project Manager:		☐	Design Architect/ Engineer(s):	
☐	Contractor:		☐	Certified Acceptance Test Tech(s):	
☐	Commissioning Provider:		☒	Energy/ T24 Part 6 Consultant:	John Starlin

Design Reviewer Qualifications per Title 24 Part 1 Section 10-103(a)1

The design reviewer(s) must be licensed professional engineers or licensed architects, or licensed contractors representing services performed by or under the direct supervision of a licensed engineer or architect, as specified in the provisions of Division 3 of the Business and Professions Code.

Do the Design Reviewer(s) meet these qualifications?

		Yes	No
03	In addition, for buildings with < 10,000 ft², the design reviewer(s) may be the engineer or architect of record. The design reviewer(s) may also be a qualified in-house engineer or architect with no other project involvement or a third party engineer, architect or contractor.	●	○

04 The design reviewer(s) for this project will be: John Starlin

Preliminary Construction Schedule

		Start Date	Completion Date
05	Schematic Design:	2022-12-05	2022-12-05
06	Design Development:	2022-12-05	2022-12-05
07	Construction Documents:	2022-12-05	2023-02-24
08	Construction:	2024-01-01	2024-01-01
09	Building Turnover:	2024-01-01	2024-01-01

Project Goals Related to Energy Efficiency

10	Operational Costs:	Code Minimum performance
11	Desired Building Lifespan:	30 - 50 years.
12	Equipment Lifecycle:	Industry standard
13	Project Energy Efficiency Goals:	Code Minimum performance

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace

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STATE OF CALIFORNIA
Nonresidential Building Commissioning
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-CXR-E

Project Name:	40 Toilet PC-12x40	**Report Page:**	(Page 4 of 6)
Project Address:		**Date Prepared:**	2023-02-20T12:52:47-05:00

F. DESIGN REVIEW KICKOFF MEETING

14	Envelope Goals	Code minimum performance.
15	HVAC System Goals:	This Requirement does not apply.
16	Indoor Lighting System Goals	Code minimum performance.
17	Outdoor Lighting System Goals	Code minimum performance.
18	Water Heating System Goals	Code minimum performance.
19	Equipment and System Specifications	Industry standard equipment.
20	Operations and Maintenance	No specific requirements.

G. OWNER'S PROJECT REQUIREMENTS (OPR)

This section does not apply to this project.

H. BASIS OF DESIGN (BOD)

This section does not apply to this project.

I. CONSTRUCTION DOCUMENT DESIGN REVIEW CHECKLIST

This table is only completed if a design review document is not attached to permit applications to demonstrate compliance with 120.8(b) and 120.8(e). For buildings with >= 10,000 ft² conditioned floor area, the design review will ensure the construction documents meet the Owner's Project Requirements (Table G.) and the Basis of Design Documents (Table H.). For buildings with < 10,000 ft² conditioned floor area, the design review will ensure the construction documents meet the goals documented in Table F. during the Design Review Kickoff.

		YES	NO
01	Attaching Completed Design Review Documentation?	○	●

Design Review Checklist

02	Envelope Design:	The design represents the typical PC building design with updates (as applicable) for the 2022 code cycle.
03	HVAC System Design:	This Requirement does not apply.
04	HVAC Controls Design:	This Requirement does not apply.
05	Indoor Lighting System Design	The design represents the typical PC building design with updates (as applicable) for the 2022 code cycle.
06	Indoor Lighting Controls Design	The design represents the typical PC building design with updates (as applicable) for the 2022 code cycle.

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Report Version: 2022.0.000 Schema Version: rev 20220101 | Compliance ID: 90302-0223-0003 Report Generated: 2023-02-20 09:52:49

STATE OF CALIFORNIA
Nonresidential Building Commissioning
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-CXR-E

Project Name:	40 Toilet PC-12x40	**Report Page:**	(Page 5 of 6)
Project Address:		**Date Prepared:**	2023-02-20T12:52:47-05:00

I. CONSTRUCTION DOCUMENT DESIGN REVIEW CHECKLIST

07	Outdoor Lighting System and Controls Design:	The design represents the typical PC building design with updates (as applicable) for the 2022 code cycle.
08	Water Heating System Design:	The design represents the typical PC building design with updates (as applicable) for the 2022 code cycle.
09	Other Systems and Features:	The design represents the typical PC building design with updates (as applicable) for the 2022 code cycle.

J. COMMISSIONING PLAN

This section does not apply to this project.

K. FUNCTIONAL PERFORMANCE TESTING

This section does not apply to this project.

L. DOCUMENTATION AND TRAINING

This section does not apply to this project.

M. COMMISSIONING REPORT

This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

There are no forms required for this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no forms required for this project.

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Report Version: 2022.0.000 Schema Version: rev 20220101 | Compliance ID: 90302-0223-0003 Report Generated: 2023-02-20 09:52:49

STATE OF CALIFORNIA
Nonresidential Building Commissioning
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-CXR-E

Project Name:	40 Toilet PC-12x40	**Report Page:**	(Page 6 of 6)
Project Address:		**Date Prepared:**	2023-02-20T12:52:47-05:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Ryan McIntosh	Documentation Author Signature:
Company: Silver Creek Industries, LLC	Signature Date: 02-20-2023
Address: 2830 Barrett Ave	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Perris/CA/92571	Phone: (951) 943-53931

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 complete and accurate signed copy of this Certificate of Compliance is 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: John Starlin	Responsible Designer Signature:
Company: Silver Creek Industries, LLC	Date Signed: 02-20-2023
Address: 2830 Barrett Ave	License: 2475
City/State/Zip: Perris/CA/92571	Phone: (951) 943-53931

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Report Version: 2022.0.000 Schema Version: rev 20220101 | Compliance ID: 90302-0223-0003 Report Generated: 2023-02-20 09:52:49

CERTIFICATE OF COMPLIANCE, NONRESIDENTIAL BUILDING COMMISSIONING

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-ELC-E

This document is used to demonstrate compliance with mandatory requirements in 130.5, for electrical systems in newly constructed nonresidential and hotel/motel occupancies and 160.6 and 160.9 for electrical systems in newly constructed multifamily occupancies. Additions and alterations to electrical service systems in nonresidential and hotel/motel occupancies will also use this document to demonstrate compliance per 141.0(a) or 141.0(b)2F for alterations. For multifamily addition or alterations compliance will be documented per 180.1(a) or 180.2 (b)4Bvii

Project Name:	40 Toilet PC-12x40	**Report Page:**	(Page 1 of 4)
Project Address:		**Date Prepared:**	2023-02-20T12:56:05-05:00

A. GENERAL INFORMATION

01	Project Location (city)	NA	02	Climate Zone	10
			03	Occupancy Types Within Project:	School or Classroom/Support Areas

B. PROJECT SCOPE

This table includes electrical systems that are within the scope of the permit application.

01	02	03	04	05	06	07
Electrical Service Designation/ Description	Scope of Work[1]	Rating[2] (kVA)	Utility Provided Metering System Exception to 130.5(a)/ 160.6(a)[3]	System subject to CA Elec Code Article 517 Exception to 130.5(a)and (b)	Demand Response Controls	Provides power to dwelling units/common living areas only in multifamily occupancy
Site feeder	Add/Alt to feeders and branch circuits only	—	☐	☐	Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections 120.12/ 160.3, 130.1/ 160.5, and 130.3/ 160.5, and mechanical, indoor lighting, and sign lighting Certificate of Compliance documents will indicate when demand response controls are required.	☐

*FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c)/160.6(c), no other requirements from 130.5/160.6 are required.
** If common use areas in a multifamily are submetered, ceiling is for submeter size serving common use areas.
† Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Report Version: 2022.0.000 Schema Version: rev 20220101 | Compliance ID: 90302-0223-0004 Report Generated: 2023-02-20 09:56:06

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-ELC-E

Project Name:	40 Toilet PC-12x40	**Report Page:**	(Page 2 of 4)
Project Address:		**Date Prepared:**	2023-02-20T12:56:05-05:00

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.

01		02		03		04	05	06
Service Electrical Metering 130.5(a)/ 160.6(a) (See Table F)	AND	Separation for Monitoring 130.5(b)/ 160.6(b) (See Table G)	AND	Voltage Drop 130.5(c)/ 160.6(c) (See Table H)	AND	Controlled Receptacles 130.5(d)/ 160.6(d) (See Table I)	Electric Ready 160.9 (See Table J)	Compliance Results
AND		AND		Yes	AND			COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with unedittable 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.

H. VOLTAGE DROP

This table includes entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with 130.5(c)/ 160.6(c). For alterations, only the altered circuits must demonstrate compliance per 141.0(b)2F6i/ 180.2(b)4Bviic.

01	02	03	04	05	
Electrical Service Designation/Description	Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method	Location of Voltage Drop Calculations[1].	Sheet Number for Voltage Drop Calculations in Construction Documents	Field Inspector	
				Pass	Fail
Site feeder:	☒ Voltage drop less than 5% ☐ Permitted by CA Elec Code (Exception to 130.5(c))*	Contractor Responsible		☐	☐

* NOTES: If "Permitted by CA Elec Code" * is selected under Compliance Method above, please indicate where the exception applies in the space provided below.
† FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Report Version: 2022.0.000 Schema Version: rev 20220101 | Compliance ID: 90302-0223-0004 Report Generated: 2023-02-20 09:56:06

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-ELC-E

Project Name:	40 Toilet PC-12x40	**Report Page:**	(Page 3 of 4)
Project Address:		**Date Prepared:**	2023-02-20T12:56:05-05:00

K. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Form/ Title
NRCI-ELC-E - Must be submitted for all buildings

L. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no forms required for this project.

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Report Version: 2022.0.000 Schema Version: rev 20220101 | Compliance ID: 90302-0223-0004 Report Generated: 2023-02-20 09:56:06

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE — NRCC-ELC-E

Project Name:	40 Toilet PC-12x40	**Report Page:**	(Page 4 of 4)
Project Address:		**Date Prepared:**	2023-02-20T12:56:05-05:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Ryan McIntosh	Documentation Author Signature:
Company: Silver Creek Industries, LLC	Signature Date: 02-20-2023
Address: 2830 Barrett Ave	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Perris/CA/92571	Phone: (951) 943-53931

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 complete and accurate signed copy of this Certificate of Compliance is 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: John Starlin	Responsible Designer Signature:
Company: Silver Creek Industries, LLC	Date Signed: 02-20-2023
Address: 2830 Barrett Ave	License: 2475
City/State/Zip: Perris/CA/92571	Phone: (951) 943-53931

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Report Version: 2022.0.000 Schema Version: rev 20220101 | Compliance ID: 90302-0223-0004 Report Generated: 2023-02-20 09:56:06

CERTIFICATE OF COMPLIANCE, ELECTRICAL POWER DISTRIBUTION

PROJECT SPECIFIC STATE AGENCY APPROVAL

PROJECT NAME:

SACRAMENTO CITY USD
McCLATHY HIGH SCHOOL
(1) 8'-6" X 21'-6" RESTRM / CUSTODIAL, BLDG
(1) 8'-6" X 32'-0" RESTRM BLDG

SHEET TITLE:

CERTIFICATE OF COMPLIANCE FORMS

REVISIONS

1		
2		
3		
4		
5		

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-122203 INC.
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLIN 2475 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
8'-6" PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
A-0.6A

LIONÄKIS
2025 Nineteenth Street
Sacramento CA 95818
P 916.558.1900
www.lionakis.com
CONSULTANT

SEAL

LICENSED ARCHITECT BRIAN BELT C28712 REN. 01-31-25 STATE OF CALIFORNIA

PROJECT
MCCLATCHY HIGH SCHOOL
ATHLETIC FIELD RENOVATION

3066 FREEPORT BLVD,
SACRAMENTO, CA 95818

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

425 1ST AVE, SACRAMENTO, CA 95818.

ISSUED

MARK	DATE	DESCRIPTION
	12/7/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

LIONAKIS PROJECT NO:	023040
DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	
COPYRIGHT:	LIONAKIS 2017

TITLE
CERTIFICATE OF COMPLIANCE FORMS

SHEET
A-0.6A

STATE OF CALIFORNIA

Outdoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
This document is used to demonstrate compliance with requirements in 110.9, 130.0, 130.2, 140.7, and 141.0(b)2L for outdoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e)6, 180.1(a) and 180.2(b)4Bv for outdoor lighting scopes using the prescriptive path for multifamily and mixed-use occupancies. Multifamily includes dormitory and senior living facilities.			
Project Name:	40 Toilet PC-12x40	**Report Page:**	**(Page 1 of 8)**
Project Address:		**Date Prepared:**	2023-02-20T17:55:05-05:00

A. GENERAL INFORMATION

01	Project Location (city)	NA	04 Total Illuminated Hardscape Area (ft²)	200
02	Climate Zone	10		
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 - Urban Clusters	☐ LZ-4: High - Must be reviewed by CA Energy Commission for Approval	
☐	LZ-1: Low - Rural Areas	☒ LZ-3: Moderately High - Urban Areas		
05	Occupancy Types within Project			

- School or Classroom
- Support 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 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv for alterations.

My Project Consists of:

01	02		
☒ New Lighting System	Must Comply with Allowances from 140.7 / 170.2(e)6		
☐ Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)?	○ Yes	○ No
03	04	05	
% of Existing Luminaires Being Altered¹	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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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Report Version: 2022.0.000 Schema Version: rev 20220101 | Compliance ID: 90302-0223-0008 Report Generated: 2023-02-20 14:55:07

STATE OF CALIFORNIA

Outdoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	40 Toilet PC-12x40	**Report Page:**	**(Page 2 of 8)**
Project Address:		**Date Prepared:**	2023-02-20T17:55:05-05:00

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through N. 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 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv												Compliance Results			
01		02		03		04		05		06		07		08	09
General Hardscape Allowance 140.7(d)1 / 170.2(e)6 (See Table I)	+	Per Application 140.7(d)2 / 170.2(e)6 (See Table J)	+	Sales Frontage 140.7(d)2 (See Table K)	+	Ornamental 140.7(d)2 / 170.2(e)6 (See Table L)	+	Per Specific Area 140.7(d)2 / 170.2(e)6 (See Table M)	OR	Existing Power Allowance 141.0(b)2L / 180.2(b)4Bv (See Table N)	=	**Total Allowed** (Watts)	≥	**Total Actual** (Watts)	**07 must be >= 08**
272.2	+	38	+	---	+	---	+	---	OR	---	=	310.2	≥	120	COMPLIES
Shielding 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.

Selections made in Certificates of Installation Table have been changed by the permit applicant. See Table E. Additional Remarks for permit applicant's explanation.

E. ADDITIONAL REMARKS

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

(NRCI-LTO-01-E Explanation) 1

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STATE OF CALIFORNIA

Outdoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	40 Toilet PC-12x40	**Report Page:**	**(Page 3 of 8)**
Project Address:		**Date Prepared:**	2023-02-20T17:55:05-05:00

F. OUTDOOR LIGHTING FIXTURE SCHEDULE

For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 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). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

Designed Wattage:

01	02		03	04	05	06	07	08	09	10	
Name or Item Tag	Complete Luminaire Description		Watts per luminaire¹ ²	How is Wattage determined	Total Number Luminaires²	Luminaire Status³	Excluded per 140.7(a) / 170.2(e)6A	Design Watts	Cutoff Req. > 6,200 initial lumen output 130.2(b) / 160.5(c)1⁴	Field Inspector	
										Pass	Fail
F-1	LED Wallpack	☐ Linear	30	Mfr. Spec	4	New	☐	120	NA: < 6200 lumens	☐	☐
							Total Design Watts:	120			

* 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)

¹FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b)

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 shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b)/ 160.5(c)

G. SHIELDING REQUIREMENTS (BUG)

This section does not apply to this project.

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Report Version: 2022.0.000 Schema Version: rev 20220101 | Compliance ID: 90302-0223-0008 Report Generated: 2023-02-20 14:55:07

STATE OF CALIFORNIA

Outdoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	40 Toilet PC-12x40	**Report Page:**	**(Page 4 of 8)**
Project Address:		**Date Prepared:**	2023-02-20T17:55:05-05:00

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.
Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit

Mandatory Controls for Nonresidential Occupancies, Parking Garages & Common Areas in Multifamily Buildings

01	02	03	04	05	
Area Description	Shut-Off 130.2(c)1 / 160.5(c)	Auto-Schedule 130.2(c)2 / 160.5(c)	Motion Sensor 130.2(c)3 / 160.5(c)	Field Inspector	
				Pass	Fail
Entry: "F-1"	Photocontrol	Provided	NA: Facade, etc. >=24 ft	☐	☐

¹FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.

²Authority having jurisdiction may ask for cutsheets or other documentation to confirm compliance of light source.

³Recessed luminaires marked for use in fire-rated installations, and recessed luminaires installed in non-insulated ceilings are excepted from ii and iii.

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace

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STATE OF CALIFORNIA

Outdoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	40 Toilet PC-12x40	**Report Page:**	**(Page 5 of 8)**
Project Address:		**Date Prepared:**	2023-02-20T17:55:05-05:00

I. LIGHTING POWER ALLOWANCE (per 140.7 / 170.2(e))

This table includes areas using allowance calculations per 140.7 / 170.2(e). General Hardscape Allowance is per Table 140.7-A/Table 170.2-R while "Use it or lose it" Allowances are per Table 140.7-B /Table 170.2-S. 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. Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.

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 for Nonresidential & Hotel/Motel

02	03	04	05	06	07	08	09
	Area Wattage Allowance (AWA)			Linear Wattage Allowance (LWA)			
Area Description	Illuminated Area (ft²)	Allowed Density (W/ft²)	Area Allowance (Watts)	Perimeter Length (lf)	Allowed Density (W/lf)	Linear Allowance (Watts)	Total General AWA + LWA (Watts)
Entry	200	0.021	4.2	90	0.2	18	22.2
						Initial Wattage Allowance for Entire Site (Watts):	250
						Instances of Initial Wattage Allowance (LZ 0 only)¹	
						Total General Hardscape Allowance (Watts):	272.2

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace

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STATE OF CALIFORNIA

Outdoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	40 Toilet PC-12x40	**Report Page:**	**(Page 6 of 8)**
Project Address:		**Date Prepared:**	2023-02-20T17:55:05-05:00

J. LIGHTING ALLOWANCE: PER APPLICATION

This table includes areas using the wattage allowance per application from Table 140.7-B / Table 170.2-S.

01	02	03	04	05	06	07	08	09	10
		CALCULATED ALLOWANCE (Watts)			DESIGN WATTS				
Area Description	Application per Table 140.7-B¹	# of Locations	Allowance per Location²	Extra Allowance (Watts)	Luminaire Name or Item Tag	Watts per Luminaire	# of Luminaires	Design Watts	Additional Allowance (Watts)
Entry Door	Building Entrance/Exit	2	19	38	F-1	30	4	120	38
							Total Design Watts for this Area:	120	
								Total Allowance (Watts) All Areas:	38

¹ FOOTNOTES: Primary entrance applications are only available for senior care facilities, healthcare facilities, police stations, hospitals, fire stations, and emergency vehicle facilities.

² The Allowance per Location for ATMs is 100W for the first ATM and 35W for each additional per Table 140.7-B /Table 170.2-S.

³ 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.

K. LIGHTING ALLOWANCE: SALES FRONTAGE

This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL

This section does not apply to this project.

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

This section does not apply to this project.

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

This section does not apply to this project.

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STATE OF CALIFORNIA

Outdoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	40 Toilet PC-12x40	**Report Page:**	**(Page 7 of 8)**
Project Address:		**Date Prepared:**	2023-02-20T17:55:05-05:00

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Form/Title
NRCI-LTO-E - Must be submitted for all buildings

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires.	Entry: "F-1"

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STATE OF CALIFORNIA

Outdoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTO-E
Project Name:	40 Toilet PC-12x40	**Report Page:**	**(Page 8 of 8)**
Project Address:		**Date Prepared:**	2023-02-20T17:55:05-05:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Ryan McIntosh	Documentation Author Signature:
Company: Silver Creek Industries, LLC	Signature Date: 02-20-2023
Address: 2830 Barrett Ave	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Perris/CA/92571	Phone: (951) 943-53931

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: John Starlin	Responsible Designer Signature:
Company: Silver Creek Industries, LLC	Date Signed: 02-20-2023
Address: 2830 Barrett Ave	License: 2475
City/State/Zip: Perris/CA/92571	Phone: (951) 943-53931

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace

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CERTIFICATE OF COMPLIANCE, OUTDOOR LIGHTING

STATE OF CALIFORNIA

Domestic Water Heating System

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-PLB-E
This document is used to demonstrate compliance for nonresidential occupancies with requirements in 110.1, 110.3, 120.3, and 140.5, and with requirements in 141.0 for additions and alterations, for domestic water heating scopes using the prescriptive path. For high-rise residential and hotel/motel occupancies compliance is demonstrated with requirements in 110.1, 110.3, 160.4 and 170.2(d), and with requirements 180.1 for additions and 180.2 for alterations.			
Project Name:	40 Toilet PC-12x40	**Report Page:**	**(Page 1 of 6)**
Project Address:		**Date Prepared:**	2023-02-20T13:48:22-05:00

A. GENERAL INFORMATION

01	Project Location (city)	NA	02	Climate Zone	10
03	Occupancy Types Within Project (select all that apply):				

- School or Classroom
- Support Areas

B. PROJECT SCOPE

This table includes domestic water heating systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive paths outlined in 140./ 170.2(d) and 141.0(a)/ 180.1, or 141.0(b)2N / 180.2 for additions or alterations. Solar water heating systems are documented on the NRCC-SAB compliance document. Combined hydronic water heating systems are documented on the NRCC-MCH compliance document.

01	02	03		
My project consists of (check all that apply):	System Type¹ ²	System Components		
☒ New system (DHW system being installed for the first time in newly constructed building)	Individual System (serving nonresidential spaces)	☒ Equipment	☒ Distribution	☒ Controls
☐ System Alteration (equipment, distribution or controls)		☐ Equipment	☐ Distribution	☐ Controls

¹FOOTNOTES: Point of use water heaters, or other non-central systems used to serve nonresidential spaces, are considered individual systems.

² Dwelling units refers to hotel/motel guest rooms and units in a multifamily residential occupancy.

³ DHW systems serving 2 or more dwelling units are considered "Central Systems" for multifamily occupancies

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with water heating requirements. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. or the table indicated as not compliant for guidance.

01	02	03	04
Domestic Hot Water Equipment	Distribution Systems	Controls	**Compliance Results**
Table F	Table G	Table H	
Yes	Yes	Yes	COMPLIES

D. EXCEPTIONAL CONDITIONS

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

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STATE OF CALIFORNIA

Domestic Water Heating System

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-PLB-E
Project Name:	40 Toilet PC-12x40	**Report Page:**	**(Page 2 of 6)**
Project Address:		**Date Prepared:**	2023-02-20T13:48:22-05:00

E. ADDITIONAL REMARKS

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

F. DOMESTIC HOT WATER EQUIPMENT

This table is used to demonstrate compliance with mandatory equipment requirements in 110.1 and 110.3. Compliance with prescriptive requirements in 140.5(c) / 170.2(d) must also be demonstrated and with 141.0 / 180.1/ 180.2 for addition and alteration scopes.

Equipment Schedule: Water Heating Efficiency and Standby Loss

03		04		05			06	
System Name	WH-1	Exception to 140.5(c)/ 170.2(d)3	Exceptions Do Not Apply	☐	Gas Service Water Heating System >= 1MMBtu/h¹	Capacity-weighted Average Efficiency %		
07	08	09	10		11	12	13	14	15
Name or Item Tag	Equipment Type	Volume (gal)	Rated Input Capacity (Btu/h)	Max GPM/ First Hour Rating (FHR)	Rated Efficiency	Minimum Efficiency Required	Efficiency Unit	Designed Standby Loss	Maximum Standby Loss
WH-1	Consumer Rated Electric Instantaneous (<=12kW)	<=2	10,264	0 <= GPM <1.7	0.91	0.91	UEF		

¹FOOTNOTE: In systems >= 1MMBtu/h with multiple units, gas water heaters with input capacity > 100,000 Btu/h may meet 90% Et requirements via an input capacity-weighted average.

Water Heating Equipment All Occupancies

	Yes	No	Not Applicable	Requirement
18	☐	☐	☒	Unfired storage tank insulation shall have Internal + External >=R-16 OR External >=R-3.5. Label required per 110.3(c)3
19	☐	☐	☒	New state buildings 60% of energy for service water heating from site solar energy or recovered energy per 110.3(c)5
20	☐	☐	☒	Isolation valves for instantaneous water heater with input rating >6.8 kBTUH or 2 kW has been specified per 110.3(c)6
21	☐	☐	☒	School buildings < 25,000 ft² and < 4 stories must install a heat pump water heating system per 140.5(a)1. Water heating systems serving an individual bathroom space may be an instantaneous electric water heater.

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Domestic Water Heating System

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-PLB-E
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G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM

This table is used to demonstrate compliance for nonresidential occupancies with distribution requirements in 120.3 and 140.5. For multifamily and hotel/motel occupancies, compliance is demonstrated with requirements 110.3(c), 160.4, 170.2(d).

Mandatory Pipe Insulation All Occupancies

13	☐	For systems serving dwelling units, pipe insulation must meet the minimum insulation requirements in Table 160.4-A (see blow) except: • Piping that penetrates framing members shall not be required to have pipe insulation for the distance of the framing penetration. Piping that penetrates metal framing shall use grommets, plugs, wrapping or other insulating material to assure that no contact is made with the metal framing. Insulation shall abut securely against all framing members • Piping installed in interior or exterior walls shall not be required to have pipe insulation if all of the requirements are met for compliance with Quality Insulation Installation (QII) as specified in the Reference Residential Appendix RA3.5. • Piping surrounded with a minimum of 1 inch of wall insulation, 2 inches of crawlspace insulation, or 4 inches of attic insulation, shall not be required to have pipe insulation.
14	☒	For systems serving nonresidential spaces, pipe insulation for the following applications is specified to comply with Table 120.3-A (see below) per 120.3: • Recirculating system piping, including supply and return piping of the water heater • The first 8 ft of hot and cold outlet piping, including between storage tank and heat trap, for a nonrecirculating storage system • Pipes that are externally heated
15	☒	Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service per 120.3(b) / 160.4(f). Pipe insulation buried below grade must be installed in a water proof and non-crushable casing or sleeve.

TABLE 120.3-A / 160.4-A PIPE INSULATION THICKNESS

Fluid Temperature Range (°F)	Conductivity Range (Btu-in per hour per ft² per °F)	Insulation Mean Rating Temp (°F)	Nominal Pipe Diameter (in)			
			< 1	1 to < 1.5	1.5 to < 4	1.5 to < 4 Multifamily & Hotel/Motel
			Minimum Insulation Required			
105-140	0.22 - 0.28	100	1.0 in or R-7.7	1.5 in or R-12.5	1.5 in or R-11	2.0 in or R-16

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace

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STATE OF CALIFORNIA

Domestic Water Heating System

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-PLB-E
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Project Address:		**Date Prepared:**	2023-02-20T13:48:22-05:00

H. DOMESTIC HOT WATER CONTROLS

This table is used to demonstrate compliance with control requirements in 110.3 for all occupancies. For multifamily residential and hotel/motel occupancies, compliance is also demonstrated with requirements in 160.4(e) / 170.2(d).

	Yes	No	Not Applicable	Requirement
01	☒	☐	☐	Construction documents require manufacturer certification that service water-heating systems are equipped with automatic temperature controls capable of adjusting temperature settings per 110.3(a).
02	☐	☐	☒	Systems with capacity > 167,000 BTUH equipped with outlet temperature controls per 110.3(c)1 unless covered by California Plumbing Code 613.0.
03	☐	☐	☒	Controls for circulating pumps or electrical heat trace systems are capable of automatically turning off the system per §110.3(c)2 unless systems serves healthcare facility.
04	☐	☐	☒	For recirculation systems serving multiple dwelling units, design includes automatic pump controls per 170.2(d) or 180.1(b)3 for additions.
05	☐	☐	☒	For recirculation systems serving individual dwelling units, design includes manual on/off controls as specified in Reference Appendix RA4.4.9 per 170.2(d).
06	☐	☐	☒	Combustion air positive shut-off shall be provided per 160.4(3).on all newly installed commercial boilers as follows: • Boilers with input capacity >= 2.5 MMBtu/h, in which the boiler is designed to operate with a nonpositive vent static pressure • Boilers where one stack serves two or more boilers with a total combined input capacity per stack of 2.5 MMBtu/h.
07	☐	☐	☒	Boiler combustion air fans with motor >= 10 hp shall meet one of the following • The fan motor shall be driven by a variable speed drive OR • The fan motor shall include controls that limit the fan motor demand to <=30% of the total design wattage at 50% of the design air volume.
08	☐	☐	☒	Newly installed boilers with an input capacity (d:gte/] 5MMBtu/h and a steady state full-load combustion efficiency < 90% shall maintain excess (stack-gas) oxygen concentrations <= 5% by volume on a dry basis over firing rates of 20-100%. Combustion air volume shall be controlled with respect to firing rate or flue gas oxygen concentration. Use of a common gas and combustion air control linkage or jack shaft is prohibited.

I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Form/Title
NRCI-PLB-E - Must be submitted for all buildings

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace

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STATE OF CALIFORNIA

Domestic Water Heating System

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-PLB-E
Project Name:	40 Toilet PC-12x40	**Report Page:**	**(Page 5 of 6)**
Project Address:		**Date Prepared:**	2023-02-20T13:48:22-05:00

J. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no forms required for this project.

K. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no forms required for this project.

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance | Report Version: 2022.0.000 Schema Version: rev 20220101 | Compliance ID: 90302-0223-0006 Report Generated: 2023-02-20 10:48:24

STATE OF CALIFORNIA

Domestic Water Heating System

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-PLB-E
Project Name:	40 Toilet PC-12x40	**Report Page:**	**(Page 6 of 6)**
Project Address:		**Date Prepared:**	2023-02-20T13:48:22-05:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Ryan McIntosh	Documentation Author Signature:
Company: Silver Creek Industries, LLC	Signature Date: 02-20-2023
Address: 2830 Barrett Ave	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Perris/CA/92571	Phone: (951) 943-53931

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: John Starlin	Responsible Designer Signature:
Company: Silver Creek Industries, LLC	Date Signed: 02-20-2023
Address: 2830 Barrett Ave	License: 2475
City/State/Zip: Perris/CA/92571	Phone: (951) 943-53931

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace

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CERTIFICATE OF COMPLIANCE, WATER HEATER SYSTEM

PROJECT SPECIFIC STATE AGENCY APPROVAL

THESE DRAWINGS AND ALL MATERIAL CONTAINED HEREIN ARE THE PROPERTY OF SILVERCREEK INDUSTRIES, INC (SCI Inc) AND SHALL NOT BE REPRODUCED, COPIED OR OTHERWISE DISPOSED OF DIRECTLY OR INDIRECTLY AND SHALL NOT BE USED IN WHOLE OR IN PART TO ASSIST IN THE MAKING OF OR FOR THE PURPOSE OF FURNISHING ANY INFORMATION FOR THE MAKING OF DRAWINGS, PRINTS, APPARATUS OR PARTS THEREOF WITHOUT THE FULL KNOWLEDGE AND WRITTEN CONSENT OF SCI Inc.
ALL PATENTABLE MATERIAL CONTAINED HEREIN AND ORIGINATING WITH SCI Inc SHALL BE THE PROPERTY OF SCI Inc

PROJECT NAME:
SACRAMENTO CITY USD
McCLATHY HIGH SCHOOL
(1) 8'-6" X 21'-6" RESTRM /
CUSTODIAL. BLDG
(1) 8'-6" X 32'-0" RESTRM BLDG

SHEET TITLE:
CERTIFICATE OF COMPLIANCE FORMS

REVISIONS
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-122203 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

JOHN W STARLIN
2475

SILVER CREEK INDUSTRIES
8'-6" PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
A-0.6B

LIONÄKIS
2025 Nineteenth Street
Sacramento CA 95818
P 916.558.1900
www.lionakis.com

CONSULTANT

SEAL
BRIAN BELL
C28712
REN. 01-31-25

PROJECT
MCCLATCHY HIGH SCHOOL
ATHLETIC FIELD RENOVATION

3066 FREEPORT BLVD,
SACRAMENTO, CA 95818

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

425 1ST AVE, SACRAMENTO, CA 95818.

ISSUED

MARK	DATE	DESCRIPTION
	12/7/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

LIONAKIS PROJECT NO:	023040
DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	
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TITLE
CERTIFICATE OF COMPLIANCE FORMS

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STATE OF CALIFORNIA

Solar And Battery

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-SAB-E
Project Name:	40 Toilet PC-12x40	**Report Page:**	(Page 1 of 7)
Project Address:		**Date Prepared:**	2023-02-20T14:17:32-05:00

This document is used to demonstrate compliance with prescriptive PV and battery requirements in 140.10/ 170.2 for nonresidential, multifamily and mixed-use buildings and prescriptive solar thermal requirements in 170.2(d)3C for multifamily and hotel/ motel occupancies. When PV/battery/solar thermal requirements don't apply or are traded using the performance approach, this document demonstrates compliance with mandatory solar readiness requirements in 110.10/ 160.8 for newly constructed buildings which are either multifamily ten stories or fewer, hotel/motel ten stories or fewer or all other nonresidential buildings three stories or fewer. It is also used to demonstrate compliance with solar readiness in 110.10/ 160.8 for additions to nonresidential, multifamily or hotel/motel building types which add more than 2,000 ft² of roof area. Alterations, or additions of less than 2,000 ft² of roof area, are not required to comply with solar readiness, solar PV and battery requirements and do not need to complete this document.

A. GENERAL INFORMATION

01	Project Location (city)	NA	04	Building Occupancies	School or ClassroomSupport Areas
02	Climate Zone	10	05	Construction Type	New construction
03	Conditioned Floor Area (ft²)	0	06	Number of Stories	Bldg <= 3 stories

B. PROJECT SCOPE

The compliance path the project is using to comply per 110.10(b)1B/ 140.10/ 170.2(g and h) is indicated below.

Compliance with Solar Readiness Requirements in 110.10(b)1B

		01
☒	Provide Solar Ready Area no exceptions	The project has allocated a solar zone on the roof plan per requirements in §110.10(b), as documented in Table F.
☐	Exception to Solar Ready Area: Installed Solar Photovoltaic System	The project includes a permanently installed solar electric system having a nameplate DC power rating, measured under Standard Test Conditions, of no less than one watt per square foot of roof area as documented in Table G.
☐	Exception to Solar Ready Area: Installed Solar Water Heating System	The project is a hotel/motel or high-rise multifamily occupancy and includes a permanently installed domestic solar water-heating system complying with 170.2(d)3C and Reference Residential Appendix RA4, as documented in Table H.
☐	Exception to Solar Ready Area: Smart Thermostat and Alternative Energy Efficiency Measure	The project is a multifamily occupancy where all thermostats in each dwelling unit comply with §110.12(a) AND at least one additional measure listed in Exception 4 to §110.10(b)1B is installed, as documented in Table I.
☐	Exception to Solar Ready Area: Roof is designed for vehicular traffic, parking or for heliport	Plan sheet showing roof designed for vehicular traffic, parking or heliport
☐	Exception to Solar Ready Area: Roof too small	The project is new construction and has a total roof area <= 533 square feet[1]
☐	Exception to Solar Ready Area: Number of building stories	The project is nonresidential > 3 stories or multifamily/ hotel/motel > 10 stories.

[1]*FOOTNOTE: Buildings with roof area <=533 ft² would have a required solar zone < 80 ft² and are therefore exempt per 110.10(b)1.*

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STATE OF CALIFORNIA

Solar And Battery

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-SAB-E
Project Name:	40 Toilet PC-12x40	**Report Page:**	(Page 2 of 7)
Project Address:		**Date Prepared:**	2023-02-20T14:17:32-05:00

Compliance with Solar Photovoltaic (PV) and Battery Requirements in 140.10/ 170.2(g and h)

		01
☐	Provided PV system and battery storage sized per 140.10/ 170.2 (g and h)	The project has included an installed PV system and battery storage system per requirements in 140.10/ 170.2(g and h) as documented in Table J.
☐	Exception to PV and Battery: Not enough Solar Access Roof Area	The total of all available Solar Access Roof Area(s) of the project site is less than three percent of the conditioned floor area as documented in Table J.
☒	Exception to PV and Battery: Required PV < 4kW	The required PV system size is less than 4 kW dc as documented in Table J..
☐	Exception to PV and Battery: No contiguous Solar Access Roof Area	The Solar Access Roof Area(s) of the project site contains less than 80 contiguous square feet as documented in Table J.
☐	Exception to PV and Battery: Can't meet snow load	The project has a roof design where the enforcement authority has verified it is not possible for the PV system, including panels, modules, components, supports, and attachments to the roof structure, to meet ASCE 7-16 Chapter 7, Snow Loads.
☐	Exception to PV and Battery: Multi-tenant without VNEM or Community Solar	The project is a multi-tenant building in an area where a load serving entity does not provide either a Virtual Net Metering (VNEM) or community solar program.
☐	The prescriptive PV/battery requirement has been traded off using the performance compliance approach as documented on the PRF Certificate of Compliance form.	The project is a multi-tenant building in an area where a load serving entity does not provide either a Virtual Net Metering (VNEM) or community solar program.

Compliance with Solar Thermal Water Heating Requirements in 170.2(d)3C (Multifamiily and hotel/ motel occupancies only)

	01
☐	The project includes a hotel/motel or multifamily occupancy with a gas or propane central water-heating system (serves 2+ dwelling units) and includes a permanently installed domestic solar water-heating system to comply with 170.2(d)3C and Reference Residential Appendix RA4, as documented in Table H. Compliance meets Exception 2 to solar ready requirements in 110.10(b).

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STATE OF CALIFORNIA

Solar And Battery

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-SAB-E
Project Name:	40 Toilet PC-12x40	**Report Page:**	(Page 3 of 7)
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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 "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance or see the applicable Table referenced below.

Allocated Solar Zone				Installed PV System				Installed SWH System				Smart Tstat and Alternative EE Measure		Compliance Results
01		02		03		04		05		06		07	08	
Required Minimum Area (ft²)	<=	Designated Area (ft²)	OR	Required Minimum DC Power Rating (Watts)	<=	Designed DC Power Rating (Watts)	OR	Required Minimum Solar Savings Fraction	<=	Designed/Rated Solar Savings Fraction	OR	JA5 Compliant Thermostat Specified?	Alternative Energy Efficiency Measure	COMPLIES
(See Table F)				(See Tables G or J)				(See Table H)				(See Table I)		
85.5	<=	89	OR	0	<=	0	OR		<=		OR			
N/A				Location in construction documents showing the location for inverters and metering equipment and a pathway for the routing of conduit/ plumbing to the electrical service/ water heating system per §110.10(c).										COMPLIES
Battery storage system design meets the minimum requirements in Joint Appendix JA12 and the minimum energy (kWh)/ power (kW) capacity per Table J.														Not Applicable

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

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STATE OF CALIFORNIA

Solar And Battery

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-SAB-E
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F. ALLOCATED SOLAR ZONE

This table is completed if the project is designating a solar zone to comply with §110.10(b)1B. New construction consider the total roof area; Additions consider newly added roof area. This table demonstrates that the project has designated the minimum area required for the Allocated Solar Zone, and also that the requirements for Solar Zone Subareas have been met. Each subarea must be shown on a roof plan or documented in construction documents. The solar zones must also comply with fire code requirements, including, but not limited to, setback and pathway requirements. Requirements for interconnection pathways must also be included in construction documents, and the location is specified in this table.

Required Minimum Solar Zone

01	02	03	04	05	06			07	08
					Potential Solar Zone Areas: Roof areas with >= 70% Solar Access				
Minimum Solar Zone Area Calculation Method	Total New or Added Roof Area (ft²)	Total New or Added Roof Area Covered with Skylights (ft²)	Minimum Solar Zone Based on Total or Added Roof Area (0.15 x (Roof-Skylt)) (ft²)	Method/ Tools Used to Determine Annual Solar Access for Potential Zones[1]	Low-Sloped Area (<= 2:12 pitch) (ft²)	Steep-Sloped Area (> 2:12 pitch) Oriented 90 ° - 300 ° (ft²)	Total Potential Solar Zone Area (ft²)	Minimum Solar Zone Based on Potential Zone (0.5 x (Total Potential Zone)) (ft²)	Required Minimum Solar Zone Area (ft²)
Total New or Added Roof Area	570	0	85.5						85.5

Designated Solar Zone Subareas

09	10	11	12	13	14	15	16	17	18	19
Subarea Name or Tag	Building Plan Reference	Roof or Overhang Slope (Low <= 2:12 pitch) (Steep > 2:12 pitch)	Is Steep-Sloped Roof or Overhang between 90 and 300 degrees?	Subarea Complies with Title 24, Part 9	Solar Zone Subarea Free of Obstructions per §110.10(b)3A	Subarea is Required Distance from Potential Obstructions per §110.10(b)3B	Is the Smallest Dimension 5 feet or greater?	Min. Area Required per Subarea (ft²)	Designated Area (ft²)	Subarea Complies?
Solar Zone	Roof plans, sheets A-3.xx	Low slope		Yes	Yes	Yes	Yes	80	89	COMPLIES

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STATE OF CALIFORNIA

Solar And Battery

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-SAB-E
Project Name:	40 Toilet PC-12x40	**Report Page:**	(Page 5 of 7)
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Interconnection Pathways

Location in construction documents showing the location for inverters and metering equipment and a pathway for the routing of conduit/ plumbing to the electrical service/ water heating system per §110.10(c).	N/A

[1]*FOOTNOTE: This field is used to document how the percentage of annual solar access was determined per §110.10(b)1B. Solar access is the ratio of solar insolation including shade to the solar insolation without shade. Shading from obstructions located on the roof or any other part of the building shall not be included in the determination of annual solar access.*

G. PERMANENTLY INSTALLED SOLAR PV FOR SOLAR READY EXCEPTION

This section does not apply to this project.

H. PERMANENTLY INSTALLED SOLAR HOT WATER SYSTEMS

This section does not apply to this project.

I. SMART THERMOSTATS AND ALTERNATIVE EFFICIENCY MEASURE FOR SOLAR READY EXCEPTION

This section does not apply to this project.

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Solar And Battery

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-SAB-E
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J. PHOTOVOLTAIC (PV) AND BATTERY SYSTEMS

This table documents compliance with prescriptive photovoltaic and battery system requirements in 140.10/ 170.2(g and h). Unless the project meets one of the listed exceptions, or trades-off PV in an energy model using performance path, 140.10/ 170.2(g and h) requires installed photovoltaic and battery systems for newly constructed buildings. The installed PV systems must meet the minimum requirements in Joint Appendix 11.

Photovoltaic (PV) System

01	02	03	04	05	06	07	08
Occupancy	Conditioned Floor Area (ft²)	Area of New Roof[1] (ft²)	Roof Area < 70% Solar Access[2] (ft²)	Plansheet or Document showing Solar Access Calculations	Occupied Roof Area[3] (ft²)	Solar Access Roof Area (SARA) (ft²)	Min Size of PV System Required (kWdc)
School or Classroom	0	570	0	Roof plans sheets A-3.xx	0	570	0
						Total Min Size PV System Required for all Spaces (kWdc):	0
						Total Size PV System in Design (kWdc):	0

[1]*FOOTNOTES: Includes the area of the building's roof space capable of structurally supporting a PV system and the area of all roof space on covered parking areas, carports, and all other newly constructed structures on the site that are compatible with supporting a PV system per Title 24, Part 2 Section 1511.2.*

[2]*Solar access must be determined using CEC approved solar access calculation tools found at https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/solar-assessment-tools.*

[3]*As specified by CBC Section 503.1.4.*

K. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Form/Title
NRCI-SAB-01-E - Must be submitted for all buildings that must comply with solar readiness or PV/Battery requirements.

L. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no forms required for this project.

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Solar And Battery

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-SAB-E
Project Name:	40 Toilet PC-12x40	**Report Page:**	(Page 7 of 7)
Project Address:		**Date Prepared:**	2023-02-20T14:17:32-05:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Ryan McIntosh	Documentation Author Signature:
Company: Silver Creek Industries, LLC	Signature Date: 02-20-2023
Address: 2830 Barrett Ave	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Perris/CA/92571	Phone: (951) 943-53931

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: John Starlin	Responsible Designer Signature:
Company: Silver Creek Industries, LLC	Date Signed: 02-20-2023
Address: 2830 Barrett Ave	License: 2475
City/State/Zip: Perris/CA/92571	Phone: (951) 943-53931

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace

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CERTIFICATE OF COMPLIANCE, SOLAR READY AREAS

STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	8 Restroom PC	**Report Page:**	(Page 1 of 7)
Project Address:		**Date Prepared:**	2023-05-06T22:29:30-04:00

This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.

A. GENERAL INFORMATION

01	Project Location (city)	Perris	04	Total Conditioned Floor Area (ft²)	0
02	Climate Zone	10	05	Total Unconditioned Floor Area (ft²)	183
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1

- School or Classroom

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☒ New Lighting System	N/A	0	Complete Building Method	183
☐ New Lighting System - Parking Garage	N/A	0	N/A	0
Total Area of Work (ft²)			183	

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STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

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Project Name:	8 Restroom PC	**Report Page:**	(Page 2 of 7)
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C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)							Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)				Compliance Results
	01	02	03	04		05		06	07		08	09
Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)	Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Area Category Additional 140.6(c)2G / 170.2(e)4Av (+)	Tailored 140.6(c)3 / 170.2(e)4B (+)	=	**Total Allowed** (Watts)	≥	Total Designed (Watts)	Adjustments PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-)	=	**Total Adjusted** (Watts) *Includes Adjustments	**05 must be >= 08 140.6 / 170.2(e)**
	(See Table I)	(See Table I)	(See Table J)	(See Table K)				(See Table F)	(See Table P)			
Conditioned					=		≥			=		
Unconditioned	109.8				=	109.8	≥	105		=	105	COMPLIES
											Controls Compliance (See Table H for Details)	COMPLIES
											Rated Power Reduction Compliance (See Table Q for Details)	

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.

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STATE OF CALIFORNIA

Indoor Lighting

CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE			NRCC-LTI-E
Project Name:	8 Restroom PC	**Report Page:**	(Page 3 of 7)
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F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Unconditioned Spaces

01	02	03	04	05	06	07	08	09	10	
									Field Inspector	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(e)2C	Design Watts	Pass	Fail
L1	Lay-in LED	No	NA	35	Mfr. Spec	3	No	105	☐	☐
							Total Designed Watts: UNCONDITIONED SPACES	105		

[1]*FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.*

[2]*Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.*

G. MODULAR LIGHTING SYSTEMS

This section does not apply to this project.

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls

01	02	03	
		Field Inspector	
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C	Pass	Fail
NA < 4,000W subject to multilevel	See Area/Space Level Controls	☐	☐

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H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Area Level Controls

04	05	06	07	08	09	10	11	12	
								Field Inspector	
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Multi-Level Controls 130.1(b) / 160.5(b)4B	Shut-Off Controls 130.1(c) // 160.5(b)4C	Primary/Skylit Daylighting 130.1(d) / 160.5(b)4D	Secondary Daylighting 130.1(d) / 160.5(b)4D	Interlocked Systems 140.6(a)1/ 170.2(e)2A	Pass	Fail
Restrooms	School or Classroom	Readily Accessible	NA: Restrooms	Occupancy Sensor	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
					13				
					Plan Sheet Showing Daylit Zones:				

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used .

Unconditioned Spaces

01	02	03	04	05	06	
					Additional Allowance / Adjustment	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Area Category	PAF
Restrooms	School or Classroom	0.6	183	109.8	No	No
		TOTALS:	183	109.8	See Tables J, or P for detail	

J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

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K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS

This section does not apply to this project.

R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

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S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DWELLING UNIT LIGHTING

This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selections 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

Form/Title
NRCI-LTI-E - Must be submitted for all buildings

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name 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
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	Restrooms

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Indoor Lighting

CALIFORNIA ENERGY COMMISSION

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Project Name:	8 Restroom PC	**Report Page:**	(Page 7 of 7)
Project Address:		**Date Prepared:**	2023-05-06T22:29:30-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

Documentation Author Name: Ryan McIntosh	Documentation Author Signature:
Company: Silver Creek	Signature Date: 5.6.23
Address:	CEA/ HERS Certification Identification (if applicable):
City/State/Zip:	Phone:

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: John Starlin	Responsible Designer Signature:
Company: Silver Creek	Date Signed: 5.6.23
Address:	License: 2475
City/State/Zip:	Phone:

Registration Number: | Generated Date/Time: | Documentation Software: Energy Code Ace

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INTERIOR LIGHTING COMPLIANCE FORMS

PROJECT SPECIFIC STATE AGENCY APPROVAL

PROJECT NAME:

SACRAMENTO CITY USD
McCLATHY HIGH SCHOOL
(1) 8'-6" X 21'-6" RESTRM /
CUSTODIAL. BLDG
(1) 8'-6" X 32'-0" RESTRM BLDG

SHEET TITLE:

CERTIFICATE OF
COMPLIANCE FORMS

REVISIONS

1
2
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4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-122203 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

JOHN W STARLIN 2475

SILVER CREEK INDUSTRIES
8'-6" PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER

A-0.6C

LIONAKIS

2025 Nineteenth Street
Sacramento CA 95818
P 916.558.1900
www.lionakis.com

CONSULTANT

SEAL

BRIAN BELL C28712 REN. 01-31-25

PROJECT
MCCLATCHY HIGH SCHOOL
ATHLETIC FIELD RENOVATION

3066 FREEPORT BLVD,
SACRAMENTO, CA 95818

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

425 1ST AVE, SACRAMENTO, CA 95818.

ISSUED

MARK	DATE	DESCRIPTION
	12/7/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

LIONAKIS PROJECT NO:	023040
DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	
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TITLE

CERTIFICATE OF
COMPLIANCE FORMS

SHEET

A-0.6C

BIM 360://023040 SCUSD McClatchy HS Fields/023040_ARCHSITE_R20_CENTRAL.rvt

12/8/2023 8:02:43 AM

CONSTRUCTION WASTE MANAGEMENT PLAN

A. DEFINITIONS
1. CONSTRUCTION AND DEMOLITION (C&D) WASTE: INCLUDES ALL NON-HAZARDOUS SOLID WASTES RESULTING FROM CONSTRUCTION, REMODELING, ALTERATIONS, REPAIR, AND DEMOLITION. INCLUDES MATERIAL THAT IS RECYCLED, REUSED, SALVAGED OR DISPOSED AS GARBAGE.
2. RECYCLING: THE PROCESS OF SORTING, CLEANING, TREATING, AND RECONSTITUTING MATERIALS FOR THE PURPOSE OF USING THE MATERIAL IN THE MANUFACTURE OF A NEW PRODUCT.
3. CO-MINGLED C&D RECYCLING: THE PROCESS OF COLLECTING MIXED RECYCLABLE MATERIALS IN ONE CONTAINER ON-SITE. THE CONTAINER IS TAKEN TO A MATERIAL RECOVERY FACILITY WHERE MATERIALS ARE SEPARATED FOR RECYCLING.

B. PERFORMANCE REQUIREMENTS
1. GENERAL: WASTE MATERIAL GENERATED DURING PROJECTS SHALL BE RECYCLED OR REUSED WHENEVER PRACTICABLE. DIVERT A MINIMUM OF 90% C&D WASTE, BY WEIGHT, FROM THE LANDFILL BY A CO-MINGLED C&D RECYCLING FACILITY.
   I. C&D WASTE MATERIALS THAT SHALL BE SALVAGED, REUSED OR RECYCLED INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
      CONCRETE, METALS, WINDOW GLASS, WOOD, GYPSUM BOARD, CARPETING AND PAD, CEILING TILES

C. QUALITY ASSURANCE
1. PRECONSTRUCTION CONFERENCE: REVIEW METHODS AND PROCEDURES RELATED TO WASTE MANAGEMENT INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:
   I. FACILITY AND DISCUSS WASTE MANAGEMENT PLAN INCLUDING RESPONSIBILITIES OF WASTE MANAGEMENT COORDINATOR.
   II. REVIEW REQUIREMENTS FOR DOCUMENTING QUANTITIES OF EACH TYPE OF MATERIALS THAT WILL BE SALVAGED, RECYCLED OR DISPOSED OF AS WASTE.
   III. REVIEW PROCEDURES FOR PERIODIC WASTE COLLECTION AND TRANSPORTATION TO RECYCLING AND DISPOSAL FACILITIES.
   IV. REVIEW WASTE MANAGEMENT REQUIREMENTS FOR EACH TRADE.

D. WASTE MANAGEMENT PLAN
1. INDENTIFY AND CONTRACT WITH A WASTE MANAGEMENT SERVICES PROVIDER OR ASSIGN RESPONSIBILITY TO INHOUSE WASTE MANAGEMENT PROJECT ADMINISTRATOR
2. RESPONSIBLE PARTY SHALL DEVELOP AND PROVIDE A PLAN WHICH INCLUDES THE FOLLOWING INFORMATION:
   I. TYPES OF C&D WASTE EXPECTED TO BE GENERATED DURING DEMOLITION AND CONSTRUCTION.
   II. PROPOSED METHODS FOR C&D WASTE SALVAGE, REUSE, RECYCLING AND DISPOSAL.
   III. PROPOSED METHODS FOR SALVAGE, REUSE, RECYCLING AND DISPOSAL DURING CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, ONE OR MORE OF THE FOLLOWING:
      A. REQUIRING SUBCONTRACTORS TO TAKE THEIR C&D WASTE TO A RECYCLING FACILITY.
      B. CONTRACTING WITH A RECYCLING HAULER TO HAUL RECYCLABLE C&D WASTE TO AN APPROVED RECYCLING OR MATERIAL RECOVERY FACILITY,
      C. PROCESSING AND REUSING MATERIALS ON-SITE

E. WASTE MANAGEMENT REPORT
1. WASTE MANAGEMENT SERVICES PROVIDER OR ADMINISTRATOR SHALL SUBMIT A CUMULATIVE WASTE MANAGEMENT REPORT ON A REGULAR BASIS WHICH INCLUDES:
   I. A RECORD OF THE TYPE AND QUANTITY, BY WEIGHT, OF EACH MATERIAL SALVAGED, REUSED, RECYCLED OR DISPOSED.
   II. TOTAL QUANTITY OF WASTE RECYCLED AS A PERCENTAGE OF TOTAL WASTE.
   III. DISPOSAL RECEIPTS: COPY OF RECEIPTS ISSUED BY A DISPOSAL FACILITY FOR C&D WASTE THAT IS DISPOSED IN A LANDFILL.
   IV. RECYCLING RECEIPTS: COPY OF RECEIPTS ISSUED BY APPROVED RECYCLING FACILITIES FOR COMINGLED MATERIALS, INCLUDE WEIGHT TICKETS FROM THE RECYCLING HAULER OR MATERIAL RECOVERY FACILITY AND VERIFICATION OF THE RECYCLING RATE FOR CO-MINGLED LOADS AT THE FACILITY.
   V. SALVAGED MATERIALS DOCUMENTATION: TYPES AND QUANTITIES, BY WEIGHT, FOR MATERIALS SALVAGED FOR REUSE ON SITE, SOLD OR DONATED TO A THIRD PARTY.

F. CONSTRUCTION WASTE MANAGEMENT, GENERAL REQUIREMENTS
1. USE DETAILED MATERIAL ESTIMATES TO REDUCE RISK OF UNPLARMED AND POTENTIALLY WASTEFUL CUTS.
2. TO THE GREATEST EXTENT POSSIBLE, INCLUDE IN MATERIAL PURCHASING AGREEMENTS A WASTE REDUCTION PROVISION REQUESTING THAT MATERIALS AND EQUIPMENT BE DELIVERED IN PACKAGING MADE OF RECYCLABLE MATERIAL, THAT THEY REDUCE THE AMOUNT OF PACKAGING, THAT PACKAGING BE TAKEN BACK FOR REUSE OR RECYCLING, AND TO TAKE BACK ALL UNUSED PRODUCT. INSURE THAT SUBCONTRACTORS REQUIRE THE SAME PROVISIONS IN THEIR PURCHASE AGREEMENTS.
3. CONDUCT REGULAR VISUAL INSPECTIONS OF DUMPSTERS AND RECYCLING BINS TO REMOVE CONTAMINANTS.
4. A MINIMUM OF 65% (BY WEIGHT) OF THE NON-HAZARDOUS CONSTRUCTION WASTE SHALL BE RECYCLED AND/OR SALVAGED FOR REUSE.
5. CONSTRUCTION WASTE MATERIALS SHALL BE COLLECTED IN CO-MINGLED CONTAINERS EXCEPT STEEL AND WOOD SHALL BE COLLECTED SEPARATELY.
6. CONSTRUCTION WASTE SHALL BE HAULED, SEPARATED, AND MEASURED BY CR+R (OR AN EQUAL WASTE MANAGEMENT COMPANY) A REPORT SHALL BE PROVIDED INDICATING THE DIVERSION RATE (BY VOLUME).

G. REMOVAL OF CONSTRUCTION WASTE MATERIALS, GENERAL REQUIREMENTS
1. REMOVE C&D WASTE MATERIALS FROM PROJECT SITE ON A REGULAR BASIS. DO NOT ALLOW C&D WASTE TO ACCUMULATE ON-SITE.
2. TRANSPORT C&D WASTE MATERIALS OFF PROPERTY AND LEGALLY DISPOSE OF THEM.
3. BURNING OF C&D WASTE IS NOT PERMITTED.

IEQ PLAN

A. CONSTRUCTION PHASE:
1. NOT USED
2. PROTECTION OF MATERIALS
   I. ALL BUILDING MATERIALS SHALL BE PROTECTED FROM WEATHER AND OTHER MOISTURE SOURCES WHEN RECOMMEND BY THE MANUFACTURER.
   II. ANY POROUS MATERIAL WITH VISIBLE MICROBIAL GROWTH SHALL NOT BE INSTALLED.
   III. ANY OTHER MATERIAL WITH VISIBLE MICROBIAL GROWTH SHALL BE THOROUGHLY CLEAN AND DECONTAMINATED PRIOR TO INSTALLATION.
3. PROTECTION OF INTERIOR ENVIRONMENT
   I. WHENEVER POSSIBLE ALL SANDING, CUTTING GRINDING OR OTHER ACTIVITIES WHICH WILL GENERATE AIRBORNE PARTICLES SHALL BE PERFORMED AWAY FROM THE BUILDING.
   II. WHERE AIRBORNE PARTICLE GENERATING ACTIVITIES CANNOT BE PERFORMED AWAY FROM THE BUILDING PROTECTIVE MEASURES SHALL BE TAKE TO SEAL INTERIOR AREAS TO REDUCE OR ELIMINATE PARTICLE TRANSFER.
   III. ANY TEMPORARILY UNFILLED EXTERIOR OPENINGS SHALL BE PROTECTED WITH PLASTIC SHEETING, OR OTHER BARRIER, TO PREVENT THE MOISTURE AND OTHER CONTAMINANTS FROM ENTERING THE BUILDING.
   IV. ALL WELDING SHALL BE PERFORMED PRIOR TO THE INSTALLATION OF EXTERIOR WALLS WHEREVER POSSIBLE.
4. DUCT SYSTEM CONSTRUCTION
   I. THE DUCT SYSTEMS SHALL BE CONSTRUCTED AND INSTALLED PER THE SMACNA HV AC DUCT CONSTRUCTION STANDARDS FOR METAL AND FLEXIBLE DUCTWORK.
   II. THE DUCT SYSTEMS SHALL BE CONSTRUCTED AND INSTALLED PER THE SMACNA FIBROUS GLASS DUCT CONSTRUCTION STANDARDS.
   III. THE DUCT SYSTEMS SHALL BE CONSTRUCTED AND INSTALLED NFPA 90A & NFPA 90B.
   IV. ONCE INSTALLED ALL OPEN DUCTS AND REGISTERS SHALL BE PROTECTED WITH PLASTIC SHEETING, OR OTHER BARRIER, UNTIL THE BUILDING HAS BEEN COMPLETELY INSTALLED AND ENCLOSED AND THE MECHANICAL SYSTEM IS READY TO BE STARTED.
   V. ALL OIL FILM SHALL BE REMOVED FROM DUCTS PRIOR TO INSTALLATION.
   VI. ALL DUST AND DIRT SHALL BE REMOVED FROM BOTH THE INTERIOR AND EXTERIOR OF ALL DUCTS PRIOR TO INSTALLATION.
5. MATERIALS INSTALLATION
   I. NATURAL OR TEMPORARY MECHANICAL VENTILATION SHALL BE PROVIDED WHEN MATERIALS WHICH EMIT VOLATILE ORGANIC COMPOUNDS (VOC) ARE INSTALLED.
   II. NATURAL OR TEMPORARY MECHANICAL VENTILATION SHALL BE CONTINUED UNTIL SUCH A TIME THAT THE VOC EMISSIONS HAVE DISSIPATED.
   III. ANY TEMPORARY VENTILATION SHALL BE EXHAUSTED TO THE EXTERIOR OF THE BUILDING.
   IV. NOT USED
   V. MATERIALS INSTALLATION SHALL BE SEQUENCED WHENEVER POSSIBLE TO ALLOW FOR THE INSTALLATION OF VOC EMITTING MATERIALS PRIOR TO THE INSTALLATION OF POROUS AND FIBROUS MATERIALS.
   VI. MATERIALS WHICH EMIT A SIGNIFICANT AMOUNT OF VOCS OR ODORS SHALL BE STORED IN A MANNER WHICH ALLOWS FOR OFF-GASSING, IN A DRY AND WELL VENTILATION AREA, PRIOR TO INSTALLATION.
   VII. NOT USED

LOW EMITTING MATERIALS + MOISTURE MANAGEMENT

SEALANTS AND CAULKS
ALL ADHESIVES, SEALANTS AND CAULKS APPLIED IN THE PROJECT'S INTERIOR SHALL MEET THE REQUIREMENTS OF THE 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 11, SECTION 5.504.4.1. PRODUCTS IN THIS CATEGORY INCLUDE BUT ARE NOT LIMITED TO CARPET, RESILIENT AND WOOD FLOORING ADHESIVES; BASE COVE ADHESIVES; CERAMIC TILE ADHESIVES; DRYWALL AND PANEL ADHESIVES; AEROSOL ADHESIVES; ADHESIVE PRIMERS; ACOUSTICAL SEALANTS; FIRE STOP SEALANTS; HVAC DUCT SEALANTS, SEALANT PRIMERS; AND CAULKS.

PAINTS & COATINGS
ALL PAINTS AND ARCHITECTURAL COATINGS APPLIED IN THE PROJECT'S INTERIOR SHALL MEET THE REQUIREMENTS OF THE 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 11, SECTION 5.504.4.3. PRODUCTS IN THIS CATEGORY INCLUDE BUT ARE NOT LIMITED TO SEALERS, STAINS, CLEAR WOOD FINISHES, FLOOR SEALERS AND COATINGS, WATERPROOFING SEALERS, PRIMERS, FLAT PAINTS AND COATINGS, NON-FLAT PAINTS AND COATINGS, AND RUST PREVENTATIVE COATINGS.

RESILIENT FLOORING SYSTEMS
ALL FLOORING SYSTEMS SHALL MEET THE REQUIREMENTS OF THE 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 11, SECTION 5.504.4.6.

COMPOSITE WOOD
ALL OF THE COMPOSITE WOOD PRODUCTS INSTALLED IN THE PROJECT SHALL MEET THE REQUIREMENTS OF THE 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 11, SECTION 5.504.4.5. COMPOSITE WOOD PRODUCTS IN THIS CATEGORY ARE DEFINED IN THE CALIFORNIA AIR RESOURCES BOARD (CARE) AIRBORNE TOXIC CONTROL MEASURE (ATCM) TO REDUCE FORMALDEHYDE EMISSIONS FROM COMPOSITE WOOD PRODUCTS (SECTIONS 93120-93120.12, TITLE 17, CALIFORNIA CODE OF REGULATIONS. THE AFFECTED PRODUCTS INCLUDE HARDWOOD PLYWOOD, PLYWOOD WITH DECORATIVE SOFTWOOD VENEER, LAMINATED PRODUCTS WITH A COMPOSITE WOOD CORE OR PLATFORM, PARTICLEBOARD, MEDIUM DENSITY FIBERBOARD (MDF), AND FINISHED GOODS FABRICATED FROM THESE PRODUCTS.

CEILING & WALL SYSTEMS
ALL CEILING AND WALL SYSTEMS INSTALLED IN THE PROJECT'S INTERIOR TOTALING 90% OR MORE OF THE TOTAL AREAS OF SUCH PRODUCTS SHALL MEET THESE REQUIREMENTS. CEILING AND WALL SYSTEMS INCLUDE BUT ARE NOT LIMITED TO CEILING INSULATION INSTALLED WITHIN THE STRUCTURAL ENVELOP, WALL INSULATION, ACOUSTICAL CEILING PANELS, GYPSUM BOARD WALL PANELS, TACKABLE WALL PANELS, AND WALL COVERINGS. CERAMIC TILE AND OTHER ORGANIC-FREE METAL- OR MINERAL-BASED WALL COVERINGS ARE AVAILABLE FOR CREDIT WITHOUT ANY TESTING REQUIREMENTS. SITE APPLIED ADHESIVES AND SEALANTS AND SITE APPLIED PAINTS AND COATINGS ASSOCIATED WITH CEILING AND WALL SYSTEMS ARE TREATED UNDER OPTIONS 1 AND 2, RESPECTIVELY. CEILING AND WALL SYSTEMS SHALL BE TESTED AND EVALUATED FOR EMISSIONS OF VOCS OF CONCERN WITH RESPECT TO CHRONIC INHALATION EXPOSURES FOLLOWING THE SPECIFICATIONS OF THE CDPH STANDARD METHOD V1.1. THE SEPARATE COMPONENTS OR DISTINCT LAYERS OF THESE SYSTEMS SHALL BE MODELED TO THE STANDARD PRACTICE SCHOOL CLASSROOM USING THE CLASSROOM CEILING AREA AND/OR WALL AREA AS APPROPRIATE. FOR SYSTEMS CONSISTING OF MORE THAN ONE DISTINCT LAYER (E.G., WALLS COMPRISED OF INSULATION, WALL PANEL AND WALL COVERING), ALL LAYERS SHALL INDIVIDUALLY MEET THE REQUIREMENTS OF THE STANDARD PRACTICE.

CARPET SYSTEMS
ALL CARPET SYSTEMS SHALL MEET THE REQUIREMENTS OF THE 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 11, SECTION 5.504.4.4. ALL CARPET SHALL BE PER THE CARPET AND RUG INSTITUTE'S GREEN LABEL PLUS PROGRAM OR SHALL BE LISTED IN THE CHPS HIGH PERFORMANCE PRODUCT DATABASE. ALL CARPET PAD SHALL BE PER THE CARPET AND RUG INSTITUTE GREEN LABEL PROGRAM.

PRIMARY EXTERIOR DOORS
ALL WALL AND FLOOR SURFACES WITHIN 24" OF A PRIMARY EXTERIOR DOOR SHALL BE NON-ABSORBANT. SEE DETAIL A/- FOR TYPICAL FLOOR AND WALL FINISH DIAGRAM.

ALL PRIMARY EXTERIOR DOORS SHALL BE PROTECTED BY AN OVERHANG, AWNING OR SIMILAR ELEMENT NOT LESS THAN 48" IN DEPTH.

OUTDOOR AIR QUALITY

HVAC, REFRIGERATION AND FIRE SUPPRESSION SYSTEMS SHALL NOT CONTAIN CFC_s OR HALONS.

CALIFORNIA ENERGY CODE - MANDATORY MEASURES

INTERIOR LIGHTING MANDATORY MEASURES:

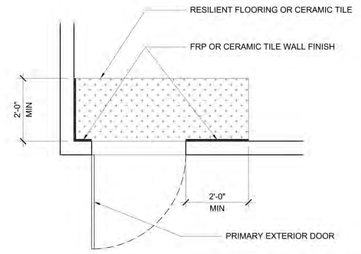
- ALL LIGHTING CONTROL DEVICES AND SYSTEMS, BALLASTS, AND LUMINAIRES SHALL MEET THE APPLICABLE REQUIREMENTS OF SECTION 110.9.
- ALL LUMINAIRES SHALL BE FACTORY-LABELED PER SECTION 130.0(c).
- EACH ROOM AND AREA WITH FLOOR-TO-CEILING WALLS IN THIS BUILDING SHALL BE EQUIPPED WITH MANUAL ON AND OFF LIGHTING CONTROLS PER SECTION 130.1(a).
- ALL ROOMS AND AREAS 100 SF OR GREATER AND WITH MORE THAN 0.5 WATT PER SF OF LIGHTING LOAD WITH 2 OR MORE LUMINAIRES SHALL BE CONTROLLED WITH MULTI-LEVEL SWITCHING FOR UNIFORM REDUCTION OF LIGHTING WITHIN THE ROOM. CONTROL STEPS SHALL MEET REQUIREMENTS IN TABLE 130.1-A.
- PROVIDE VACANCY SENSOR OR PARTIAL-ON OCCUPANCY SENSOR IN ALL ROOMS.
- ALL GENERAL LIGHTING IN PRIMARY SIDELIT DAYLIT ZONES AND SKYLIT DAYLIT ZONES IN ENCLOSED SPACES WITH 120 WATTS, OR MORE IN COMBINED PRIMARY/SKYLIT ZONES AND 24 SF, OR MORE OF FENESTRATION, SHALL BE CONTROLLED WITH AUTOMATIC DAYLIGHTING CONTROLS PER SECTION 130.1(d).

OUTDOOR LIGHTING MANDATORY MEASURES:

- ALL LIGHTING CONTROL DEVICES AND SYSTEMS, BALLASTS, AND LUMINAIRES SHALL MEET THE APPLICABLE REQUIREMENTS OF SECTION 110.9.
- ALL LUMINAIRES SHALL BE FACTORY-LABELED PER SECTION 130.0(c).
- ALL OUTDOOR LIGHTING SHALL BE OPERATED WITH CONTROLS WHICH AUTOMATICALLY TURNS OFF OUTDOOR LIGHTING WHEN DAYLIGHT IS AVAILABLE PER SECTION 130.2(b).
- ALL OUTDOOR LIGHTING SHALL BE INDEPENDENTLY CONTROLLED FROM OTHER ELECTRICAL LOADS WHICH ARE CONTROLLED BY AN AUTOMATIC SCHEDULING CONTROL PER SECTION 130.2(c).

SOLAR READY AND ELECTRICAL DISTRIBUTION MANDATORY MEASURES:

- A SOLAR ZONE SHALL BE PROVIDED ON THE ROOF OF THE BUILDING PER SECTION 110.10(b).
- A PATHWAY SHALL BE PROVIDED FROM THE SOLAR ZONE TO AN INDICATED LOCATION SUITABLE FOR THE FUTURE INSTALLATION OF INVERTERS AND METERING EQUIPMENT PER SECTION 110.10(c).
- ELECTRICAL SERVICE METERING SHALL UTILIZE A PERMANENTLY INSTALLED METERING SYSTEM PER SECTION 130.5(a).
- SEPERATION OF ELECTRICAL CIRCUITS SHALL NOT BE REQUIRED WHERE ELECTRICAL SERVICE OR FEEDER IS RATED AT 50 KVA OR LESS PER SECTION 130.5(b).
- THE VOLTAGE DROP TO THE FARTHEST CONNECTED LOAD OR OUTLET SHALL NOT EXCEED 5% PER SECTION 130.5(c).



A PRIMARY EXTERIOR WALL FINISH DIAGRAM

PROJECT SPECIFIC STATE AGENCY APPROVAL

PROJECT NAME:
SACRAMENTO CITY USD
McCLATHY HIGH SCHOOL
(1) 8'-6" X 21'-6" RESTRM / CUSTODIAL BLDG
(1) 8'-6" X 32'-0" RESTRM BLDG

SHEET TITLE:
ENERGY MANDATORY MEASURES & CALGREEN SPEC'S

REVISIONS
1
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3
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5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
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DIV. OF THE STATE ARCHITECT
APP. 04-122203 INC.
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARK 2975 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
8'-6" PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
A-0.7

CALGREEN SPECIFICATIONS | 2

CALIFORNIA ENERGY CODE - MANDATORY MEASURES | 1

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CONSULTANT

SEAL
LICENSED ARCHITECT BRIAN BELT C28712 REN 01-31-25 STATE OF CALIFORNIA

PROJECT
MCCLATCHY HIGH SCHOOL
ATHLETIC FIELD RENOVATION

3066 FREEPORT BLVD,
SACRAMENTO, CA 95818

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

425 1ST AVE, SACRAMENTO, CA 95818.

ISSUED

MARK	DATE	DESCRIPTION
	12/7/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

LIONAKIS PROJECT NO:	023040
DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	
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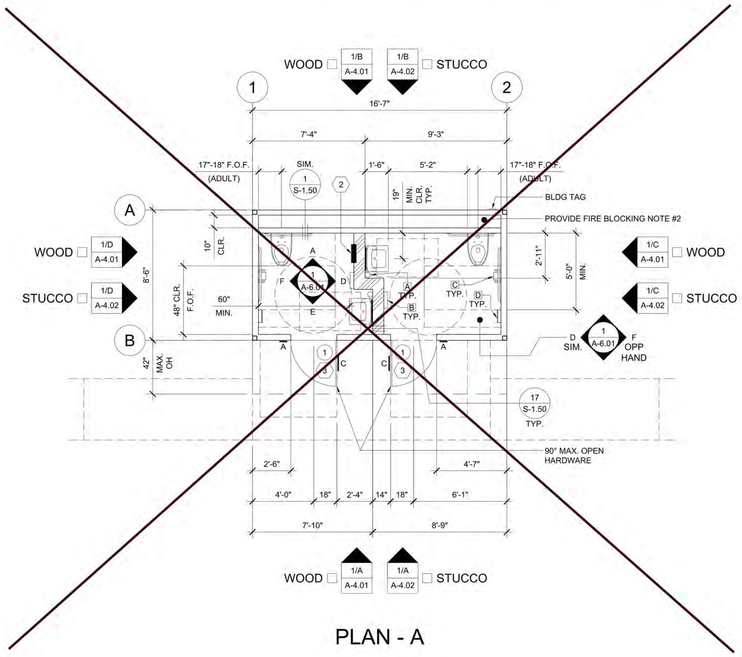
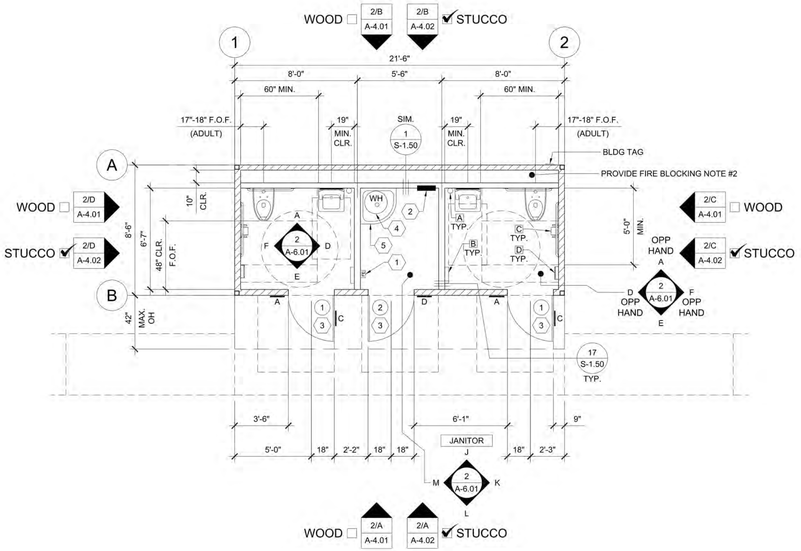
TITLE
ENERGY MANDATORY MEASURES & CAL GREEN SPECS

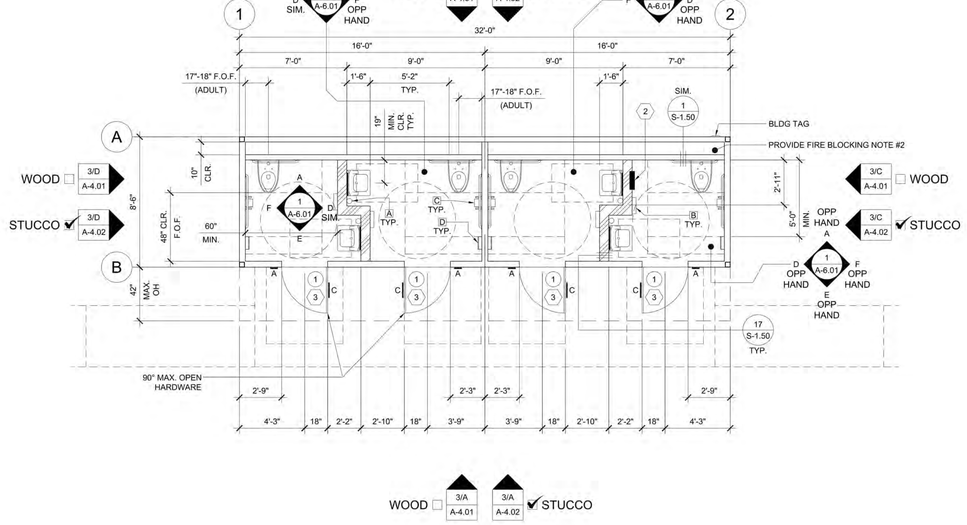
SHEET
A-0.7



PLAN - A



PLAN - B



PLAN - C

KEYNOTES

1. SEMI-RECESSED FIRE EXTINGUISHER CABINET WITH 5 LB. DRY CHEMICAL WITH 2A-10B-C UL RATING. MOUNT FIRE EXTINGUISHER HANDLE @ 48" A.F.F. (TYP.) 4" MAX. PROJ.
2. ELECTRICAL PANEL - SEE ELECTRICAL SHEETS FOR EXACT LOCATION AND CIRCUITS.
3. EXTERIOR DOOR - SEE SHEET A-0.2 FOR SIZE AND HARDWARE.
4. TANKLESS WATER HEATER
5. MOP SINK.

WALL LEGEND

= 2 x 4 EXTERIOR / INTERIOR (PARTITION) WALL

= 2 x 6 EXTERIOR WALL

= 2 x 8 INTERIOR PLUMBING WALL

NOTE:
SEE SHEET A-5.50 FOR EXTERIOR SIDING WALL DETAILS
SEE SHEET A-5.51 FOR EXTERIOR PLASTER WALL DETAILS

SIGNAGE LEGEND

A: RESTROOM WALL SIGN - SEE SHEET A-0.1

B: TACTILE EXIT SIGN - SEE SHEET A-0.1

C: RESTROOM DOOR SIGN - SEE SHEET A-0.1

D: ROOM ID SIGN - SEE SHEET A-0.1

NOTES

1. PLACE (2) PERMANENT METAL IDENTIFICATION LABELS ON EACH MODULE. PER IR 16-1 (4.1) (1) LABEL AT REAR EXTERIOR AND (1) LABEL ABOVE CEILING LINE AT INTERIOR FRAME. LABELS WILL BE MECHANICALLY FASTENED AND SHOW THE DSA APPLICATION NUMBER, MANUFACTURER'S NAME AND SERIAL NUMBER, DESIGN LIVE LOAD FOR ROOF AND FLOOR FRAMING, WIND SPEED, EXPOSURE CATEGORY, AND Kzt = 1.0 2022 CBC, DESIGN CLIMATE ZONE, SEISMIC PARAMETER = S_s .
2. PROVIDE 1/2" GB FIRE BLOCKING AT INTERVALS NOT TO EXCEED 10' HORIZONTALLY. PER CBC 718
3. ALL FIXTURE HEIGHTS TO BE VERIFIED PRIOR TO CONSTRUCTION.
4. REQUIRED LOCATION OF LAVATORY TO BE 19" MIN. FROM FACE OF FINISH OF WALL WHEN ACCESSORIES (PAPER TOWEL DISPENSORS, ELECTRIC HAND DRYERS, ETC.) HAVING A 4" PROJECTION ARE TO BE INSTALLED, SO AS NOT TO ENCROACH INTO THE 30" x 48" CLEAR SPACE.
5. SIGNAGE REQUIRED PER APPLICABLE CODES LISTED ON SHEET COVER SHEET PROVIDED AND INSTALLED BY OTHERS ONSITE. SEE SHEET A-0.1 PROVIDED AND INSTALLED BY OTHERS ONSITE.
6. SEE SHEET P-2.01 FOR TOILET ACCESSORIES, FIXTURE SCHEDULE & PLUMBING P.O.C.
7. SEE SHEET P-2.01 FOR PLUMBING DETAILS
8. FLOOR PLAN SHOWN AS FLUSH WITH GRADE.
5. FOR ABOVE GRADE SYSTEMS, REFER TO LANDING AND RAMP SHEETS FOR CLARITY
9. INTERIOR WALLS BETWEEN CLASSROOMS AND ADJACENT SPACES (WHERE OCCURS) SHALL BE FULL HEIGHT TO THE UNDERSIDE OF THE STRUCTURE ABOVE AND SHALL HAVE A STC RATING OF NOT LESS THAN 40. SEE SHEET A-0.7 FOR WALL ASSEMBLY.

TOILET ACCESSORIES

A SOAP DISPENSER: LIQUID SOAP DISPENSER 4" MAX PROJECTION

B PAPER TOWEL DISPENSER/TRASH BIN COMBO: SURFACE MOUNTED 4" MAX. PROJECTION-CANNOT ENCROACH INTO 30"x48" CLEAR SPACE OF FIXTURE

C TOILET PAPER HOLDER: SINGLE ROLL SEMI-RECESSED OR 3" MAX PROJECTION (MUST HAVE CONTINUOUS PAPER FLOW)

D TOILET SEAT DISPENSER: SURFACE MOUNTED
ACCESSORY NOTE:
TOILET ACCESSORIES (NIC) SEE SHEET P-2.01 FOR ACCESSIBLE ELEVATION & DIMENSIONS.

SYMBOLS LEGEND

60" CIRCLE CLEAR SPACE

30"x48" CLEAR SPACE

PROJECT SPECIFIC STATE AGENCY APPROVAL

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SACRAMENTO CITY USD
McCLATHY HIGH SCHOOL
(1) 8'-6" X 21'-6" RESTRM / CUSTODIAL BLDG
(1) 8'-6" X 32'-0" RESTRM BLDG

SHEET TITLE:

FLOOR PLANS
ADULT HEIGHT

REVISIONS

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CODE: 2022 CBC
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IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-122203 INC.
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 2475 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
8'-6" PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-27-2023

P.C. SHEET NUMBER

A-1.01

LIONÄKIS
2025 Nineteenth Street
Sacramento CA 95818
P 916.558.1900
www.lionakis.com

CONSULTANT

SEAL

LICENSED ARCHITECT BRIAN BELT C28712 REN 01-31-25 STATE OF CALIFORNIA

PROJECT
MCCLATCHY HIGH SCHOOL
ATHLETIC FIELD RENOVATION

3066 FREEPORT BLVD,
SACRAMENTO, CA 95818

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

425 1ST AVE, SACRAMENTO, CA 95818.

ISSUED

MARK	DATE	DESCRIPTION
	12/7/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

LIONAKIS PROJECT NO:	023040
DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	
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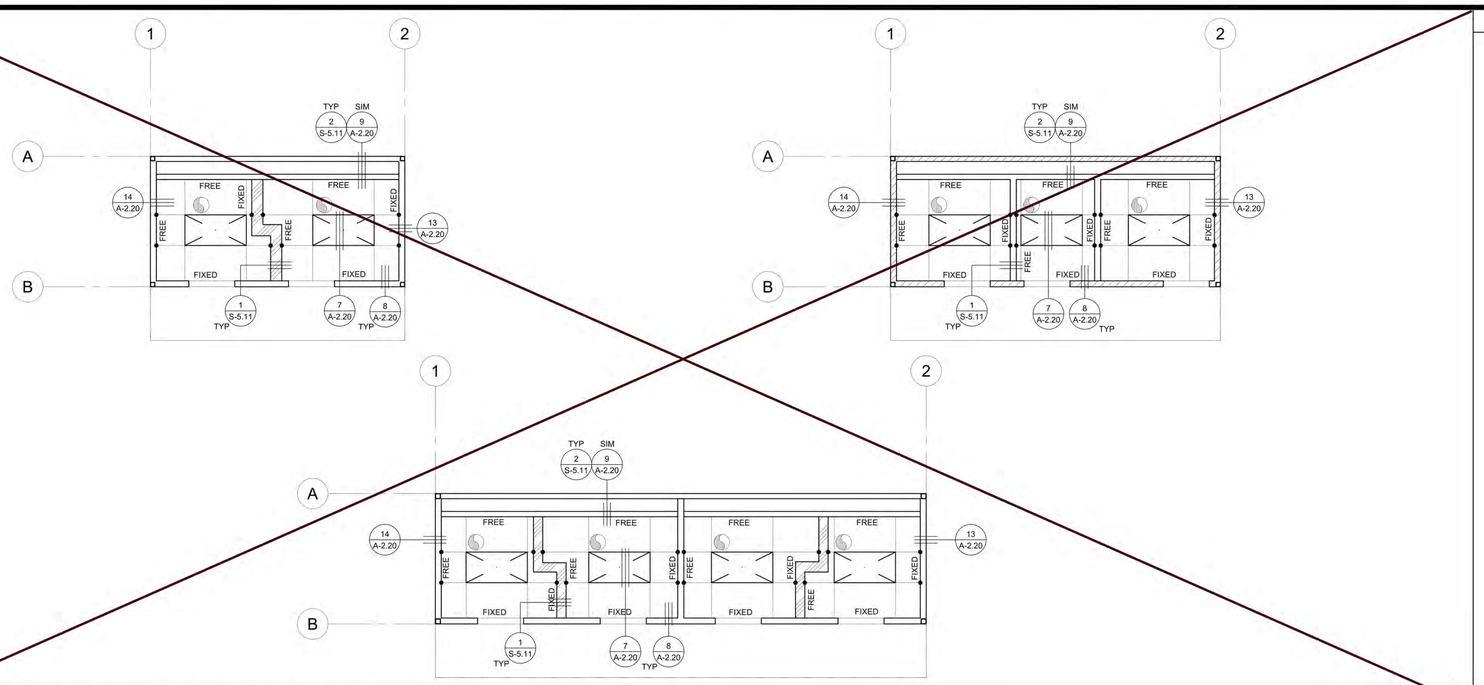
TITLE

FLOOR PLANS - ADULT HEIGHT

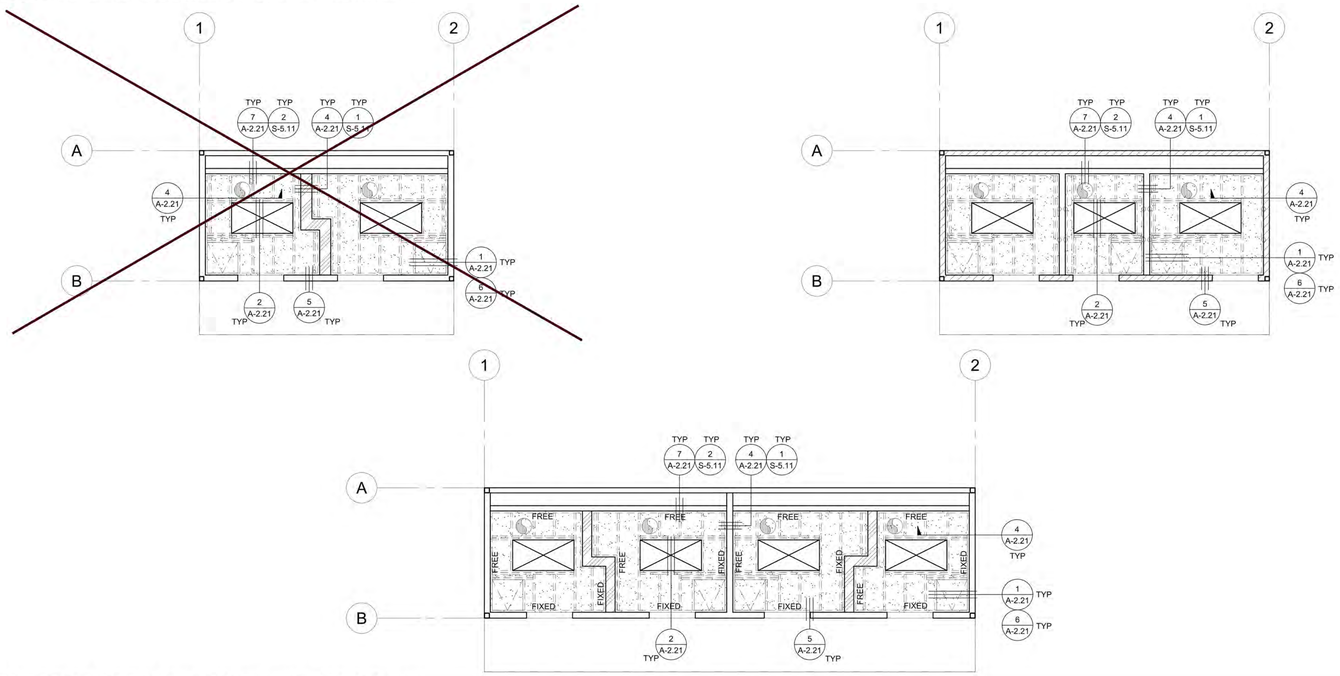
SHEET

A-1.01



SUSPENDED CEILING PLANS (STANDARD APPLICATION)

SCALE:1/4" = 1'-0" | 1



GYPSUM BOARD CEILING PLANS (OPTIONAL APPLICATION)

SCALE:1/4" = 1'-0" | 2

LEGEND

- CROSS RUNNERS
- = SUSPENDED CEILING SYSTEM
- MAIN RUNNERS
- = 24" X 48" RECESSED FIXTURE. SEE SHEET ELECTRICAL SHEETS FOR REFERENCE.
- = EXHAUST FAN SEE ELECTRICAL SHEETS FOR REFERENCE.
- = DRYWALL CEILING FINISH. VERIFY WITH OWNER FOR TEXTURE FINISH.
- = MAIN RUNNER LOCATIONS

NOTES:

NOTE:
FOR ALL REFLECTED CEILING NOTES SEE SHEET A-0.1

PROJECT SPECIFIC STATE AGENCY APPROVAL

PROJECT NAME:
SACRAMENTO CITY USD
McCLATHY HIGH SCHOOL
(1) 8'-6" X 21'-6" RESTRM / CUSTODIAL, BLDG
(1) 8'-6" X 32'-0" RESTRM BLDG

SHEET TITLE:
REFLECTED CEILING PLAN

REVISIONS
1
2
3
4
5

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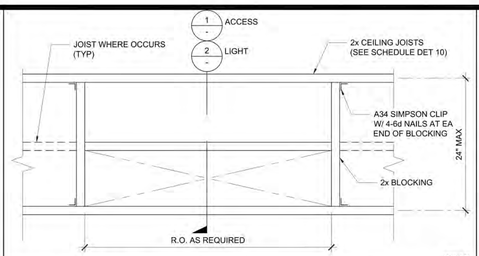
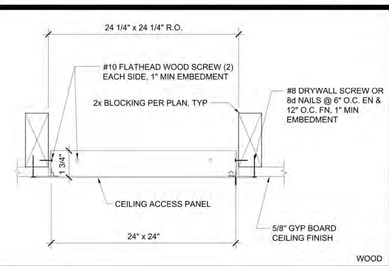
TITLE
REFLECTED CEILING PLAN

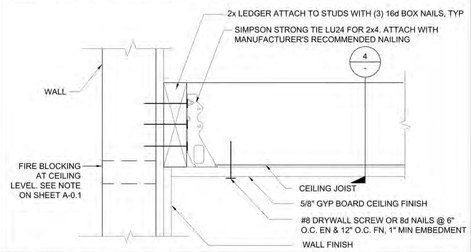
SHEET
A-2.01



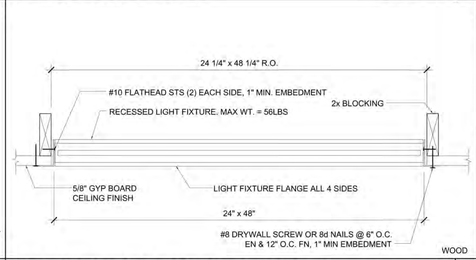
16 | 11 | RECESS WOOD CEILING JOIST FRAMING PLAN SCALE : 1" = 1'-0" | 6



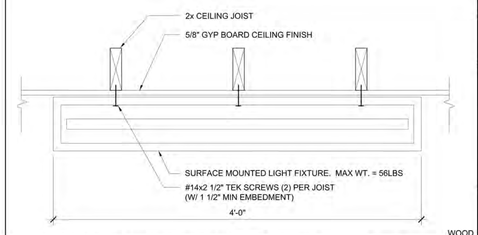
CEILING ACCESS PANEL SCALE : 3" = 1'-0" | 1



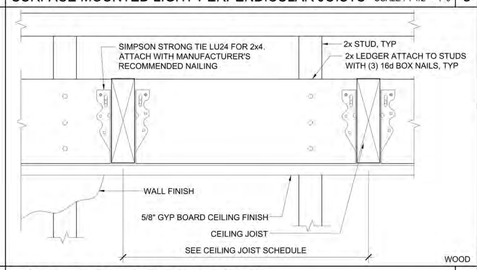
17 | 12 | HARD LID CEILING @ CHASE SCALE : 3" = 1'-0" | 7



RECESSED LIGHT FIXTURE AT HARD LID SCALE : 1 1/2" = 1'-0" | 2

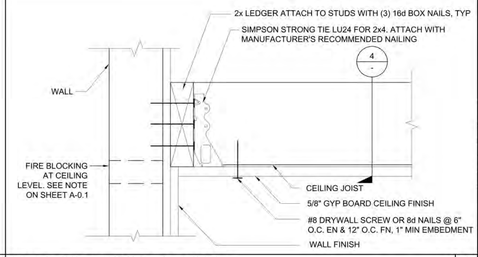


18 | 13 | 8 | SURFACE MOUNTED LIGHT-PERPENDICULAR JOISTS SCALE : 1 1/2" = 1'-0" | 3



19 | 14 | 9 | HARD LID CEILING CONNECTION SCALE : 3" = 1'-0" | 4

2X4 JOIST TABLE - MAX SPAN					
SPACING	HEMFIR STUD	HEMFIR NO 2	HEMFIR NO 1	DFL STUD	DFL NO. 2
12" OC	11' - 3"	11' - 7"	12' - 2"	11' - 10"	12' - 5"
16" OC	10' - 3"	10' - 6"	11' - 0"	10' - 9"	11' - 3"
24" OC	8' - 11"	9' - 2"	9' - 8"	9' - 5"	9' - 10"



20 | 15 | WOOD CEILING JOIST SCHEDULE SCALE : NTS | 10 | HARD LID CEILING @ CHASE SCALE : 3" = 1'-0" | 5

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SHEET TITLE:

CEILING DETAILS
HARD LID

REVISIONS

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5	

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DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	

TITLE

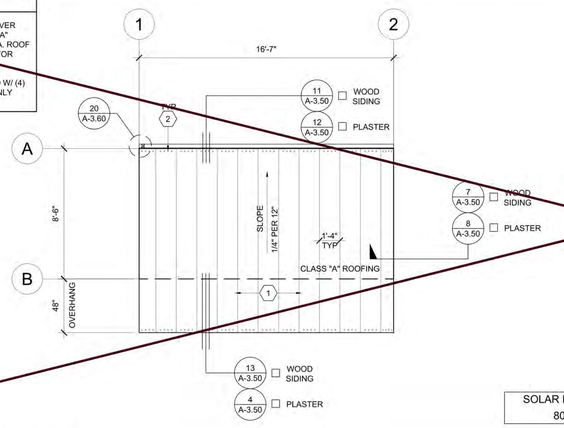
CEILING DETAILS HARD LID

SHEET

A-2.21

KEYNOTES

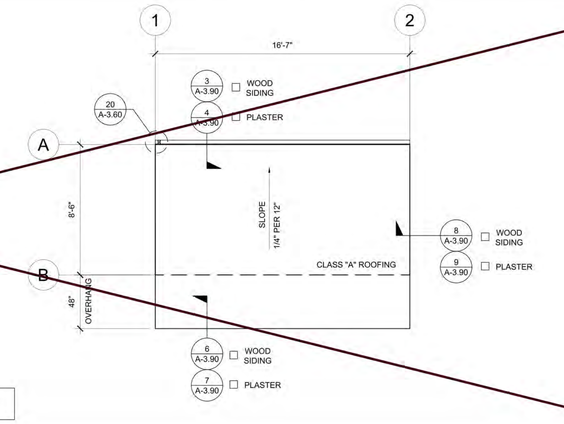
1. 22 GA. GALVANIZED INTERLOCKING STANDING SEAM ROOF PANELS OVER UNDERLAYMENT MATERIAL OVER ROOF SHEATHING PANELS, CLASS "A" ROOFING SYSTEM. STANDING SEAM PANELS SHALL BE SCI-16x3x22 GA. ROOF PANEL SYSTEM (PER RADCO TEST REPORT #216037.R) SEE 18/A-3.50 FOR PANEL PROFILE.
2. FASTEN EACH ROOF PANEL TO ROOF STRUCTURE AT THE PANEL END W/ (4) 1/4-14x2" STSMS WITH NEOPRENE WASHERS. SCREWS SHALL BE EVENLY SPACED. SEE 6/A-3.50



NOTE:
SEE 10/A-3.50 FOR ROOF PANEL CAPACITY DIAGRAM

STANDING SEAM ROOF

TPO ROOF

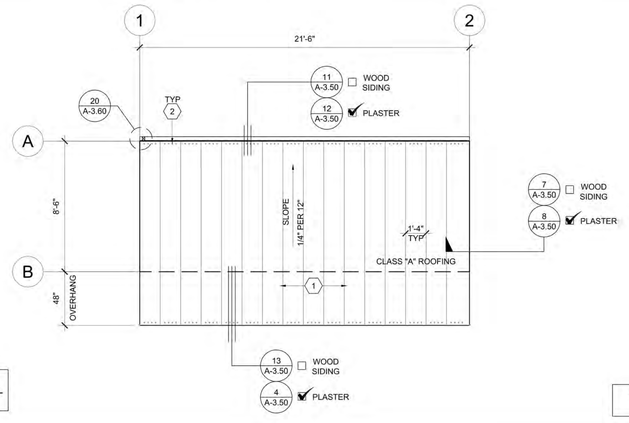


SOLAR READY AREA
80 SF MIN.

SOLAR READY AREA
80 SF MIN.

ROOF PLAN (8'-6" X 16'-7") "A"

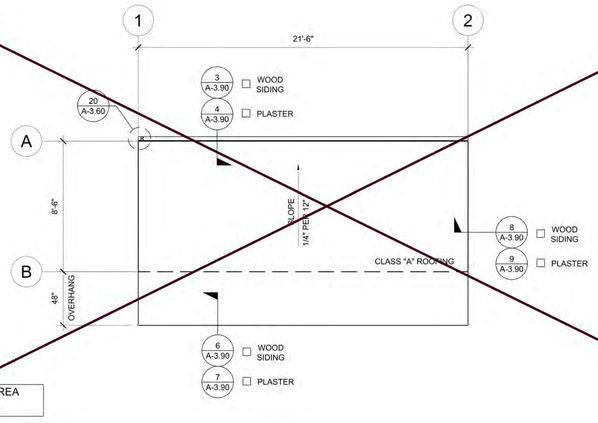
SCALE:1/4" = 1'-0" 1



NOTE:
SEE 10/A-3.50 FOR ROOF PANEL CAPACITY DIAGRAM

STANDING SEAM ROOF

TPO ROOF

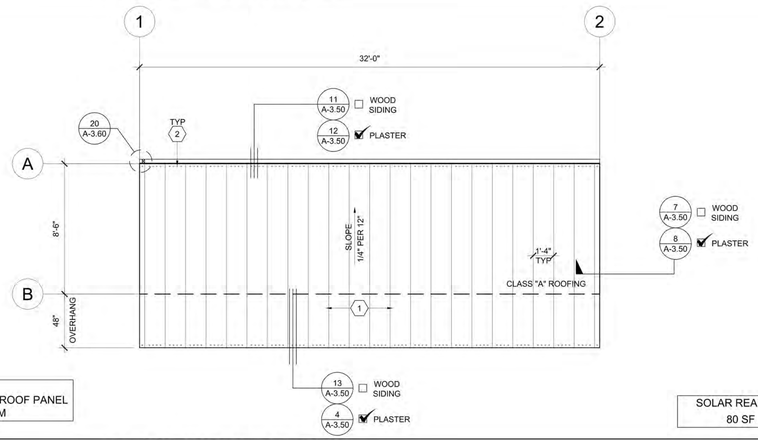


SOLAR READY AREA
80 SF MIN.

SOLAR READY AREA
80 SF MIN.

ROOF PLAN (8'-6" X 21'-6") "B"

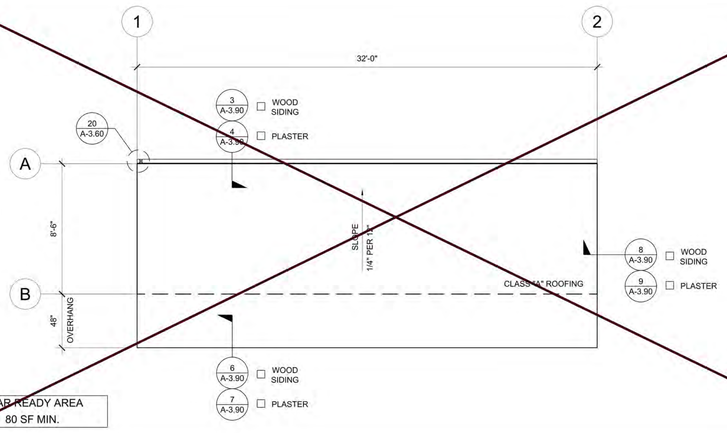
SCALE:1/4" = 1'-0" 2



NOTE:
SEE 10/A-3.50 FOR ROOF PANEL CAPACITY DIAGRAM

STANDING SEAM ROOF

TPO ROOF



SOLAR READY AREA
80 SF MIN.

SOLAR READY AREA
80 SF MIN.

ROOF PLAN (8'-6" X 32'-0") "C"

SCALE:1/4" = 1'-0" 3

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(1) 8'-6" X 32'-0" RESTRM BLDG

SHEET TITLE:

ROOF PLANS

REVISIONS

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2	
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TITLE
ROOF PLANS

SHEET
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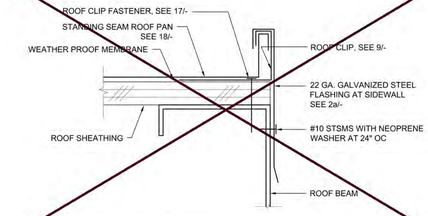
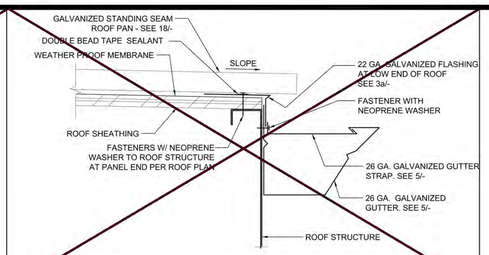
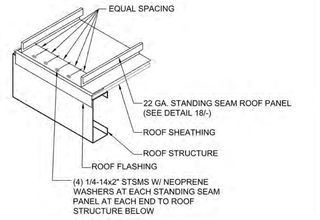


ROOF FLASHING AT SIDEWALL SCALE : 6"=1'-0" 16

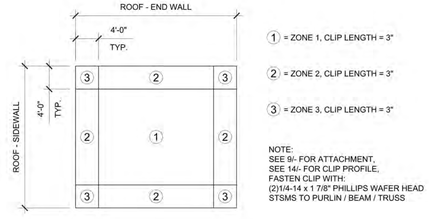


GUTTER AT ROOF FASCIA BEAM SCALE : 3"=1'-0" 11

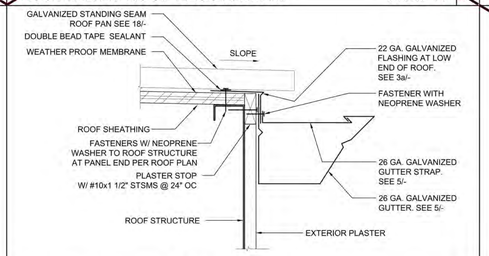


STANDING SEAM PANEL AT ENDS SCALE : NTS 6

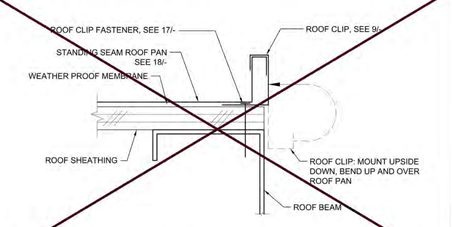
NOT USED 1a



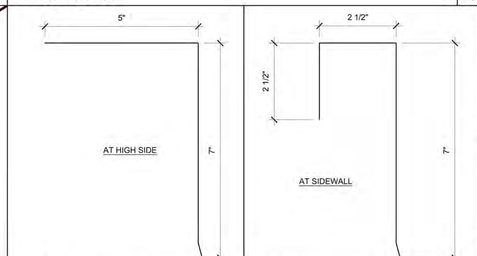
ROOF CLIP ZONES NTS 17



GUTTER AT ROOF FASCIA BEAM SCALE : 3"=1'-0" 12

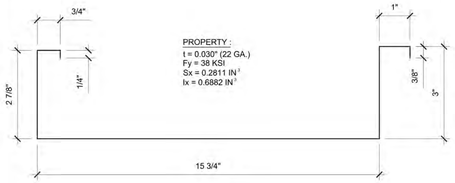


STARTER ROOF PAN CONNECTION SCALE : 6"=1'-0" 7

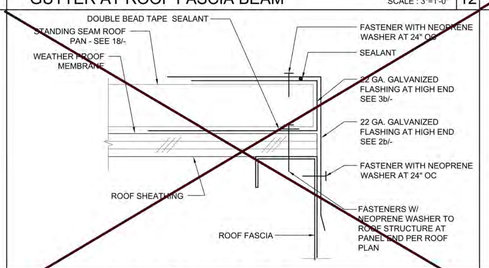


ROOF FLASHING SCALE : 6"=1'-0" 2b

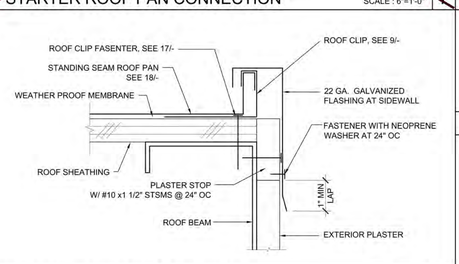
ROOF FLASHING SCALE : 6"=1'-0" 2a



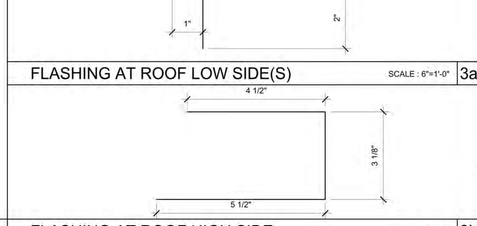
ROOF DECK PROFILE SCALE : NTS 18



ROOF FLASHING AT HIGH SIDE SCALE : 6"=1'-0" 13

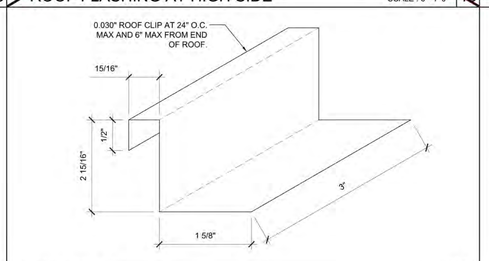


ROOF FLASHING AT SIDEWALL SCALE : 6"=1'-0" 8

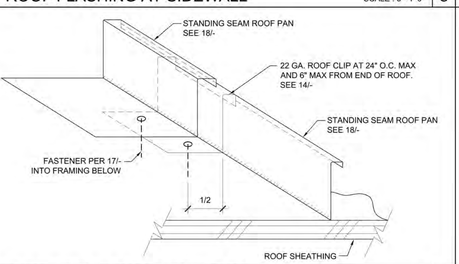


DOWNSPOUT ATTACHMENT SCALE : 3"=1'-0" 20

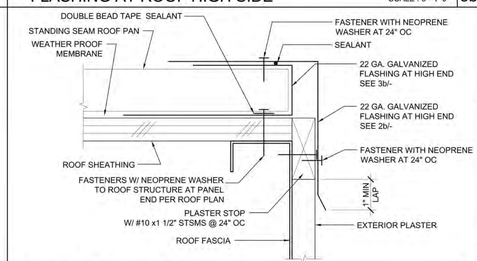
NOT USED 19



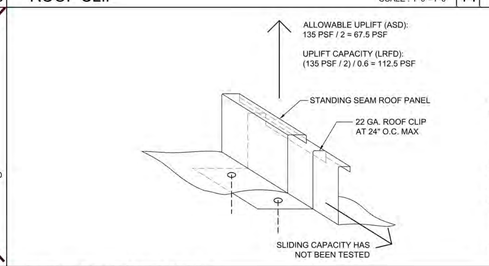
ROOF CLIP SCALE : 1'-0"=1'-0" 14



ROOF CLIP @ STANDING SEAM SCALE : NTS 9



ROOF FLASHING AT HIGH SIDE SCALE : 6"=1'-0" 4



NOTES:

1. THE ALLOWABLE UPLIFT VALUES PROVIDED ABOVE ARE BASED ON TESTING PERFORMED IN ACCORDANCE WITH UL STANDARD 1897 (UPLIFT TEST FOR ROOF COVERING SYSTEM).

   TEST REPORT:
   TI RADCO (RADCO, A TWINING COMPANY)
   REPORT # 216037.R
   DATE: 6.22.2021

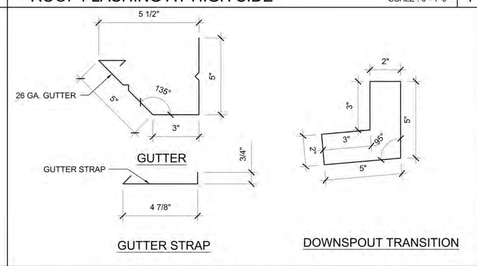
2. THE ULTIMATE LOAD DETERMINED BY TESTING = 135 PSF.
   A SAFETY FACTOR OF 2.0 HAS BEEN USED IN CALCULATING THE ALLOWABLE VALUES.

3. PV PANEL ATTACHMENT OPTION IS NOT INCLUDED WITHIN THIS PC.

4. THE CLIP SLIDING CAPACITY HAS NOT BEEN TESTED. IF PV PANELS ARE INSTALLED THE SLIDING CAPACITY OF THE ROOF PANEL SYSTEM MUST BE DETERMINED BY FIELD TESTING FOR ROOF SLOPES OF NOT LESS THAN 7 DEGREES.
   IN ADDITION, IF THE SLIDING LOAD FOR SEISMIC AND WIND FORCES ON THE PV PANEL SYSTEM IS LESS THAN THE DISPLACED DESIGN LIVE LOAD SLIDING COMPONENT PER DSA IR 16-8 (SECTION 5.1.12).

5. CONVERSION FROM ALLOWABLE UPLIFT (ASD) TO UPLIFT CAPACITY (LRFD) IS BASED ON ASD WIND PRESSURE = 0.6 x (LFRD WIND PRESSURE).

ROOF SYSTEM CAPACITY SCALE: NTS 10



GUTTER AND STRAP & DOWNSPOUT SCALE : 3"=1'-0" 5

PROJECT SPECIFIC STATE AGENCY APPROVAL

PROJECT NAME:

SACRAMENTO CITY USD
McCLATHY HIGH SCHOOL
(1) 8'-6" X 21'-6" RESTRM / CUSTODIAL, BLDG
(1) 8'-6" X 32'-0" RESTRM BLDG

SHEET TITLE:

ROOF DETAILS
STANDING SEAM ROOF DECK

REVISIONS

1	
2	
3	
4	
5	

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-122203 INC.
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24756 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
8'-6" PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-27-2023

P.C. SHEET NUMBER

A-3.50

LIONÄKIS

2025 Nineteenth Street
Sacramento CA 95818
P 916.558.1900
www.lionakis.com

CONSULTANT

SEAL

LICENSED ARCHITECT BRIAN BELT C28712 REN 01-31-25 STATE OF CALIFORNIA

PROJECT
MCCLATCHY HIGH SCHOOL
ATHLETIC FIELD RENOVATION

3066 FREEPORT BLVD,
SACRAMENTO, CA 95818

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

425 1ST AVE, SACRAMENTO, CA 95818.

ISSUED

MARK	DATE	DESCRIPTION
	12/7/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

LIONAKIS PROJECT NO:	023040
DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	
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TITLE

ROOFING DETAILS - STANDING SEAM ROOF DECK

SHEET

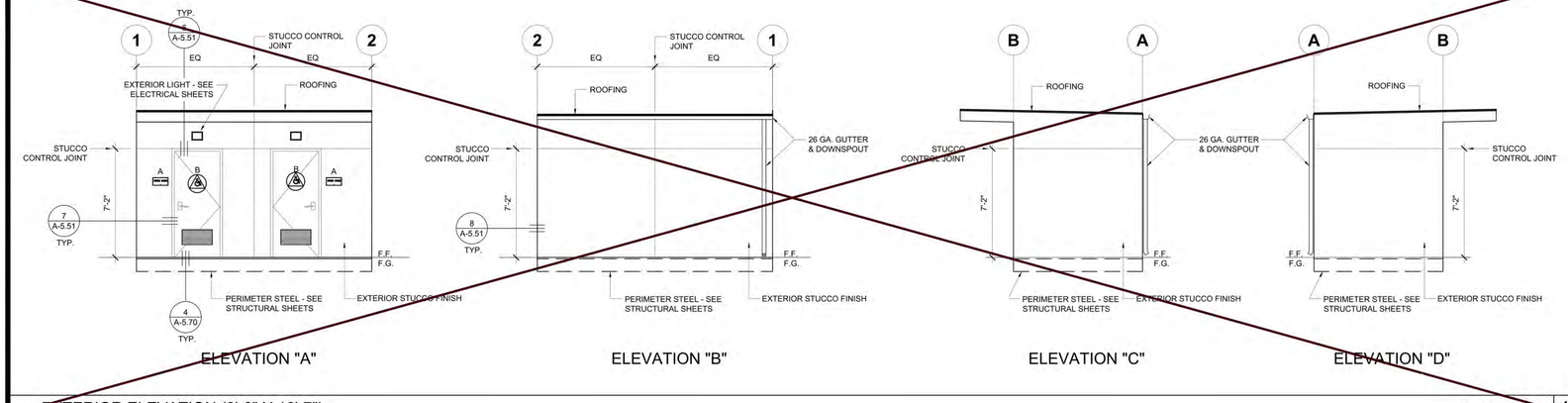
A-3.50

IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY

0 1/4" 1" 2"

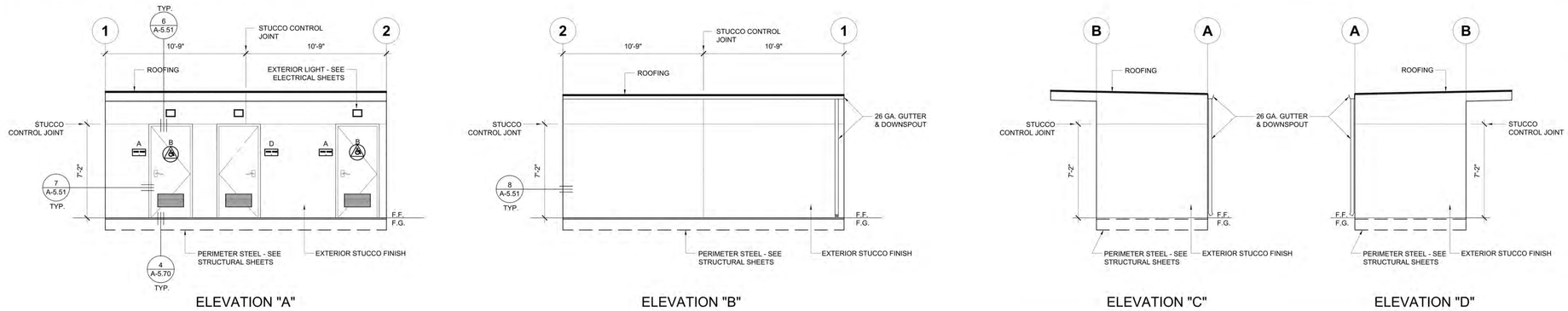
BIM 360://023040 SCUSD McClatchy HS Fields/023040_ARCHITE_R2D_CENTRAL.rvt

12/6/2023 8:03:17 AM



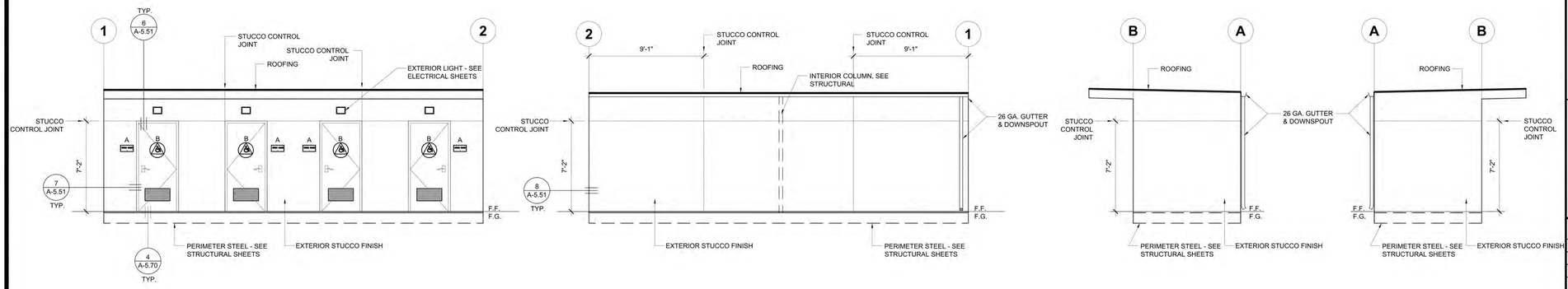
ELEVATION "A" ELEVATION "B" ELEVATION "C" ELEVATION "D"

EXTERIOR ELEVATION (8'-6" X 16'-7") SCALE:1/4" = 1'-0" 1



ELEVATION "A" ELEVATION "B" ELEVATION "C" ELEVATION "D"

EXTERIOR ELEVATION (8'-6" X 21'-6") SCALE:1/4" = 1'-0" 2



ELEVATION "A" ELEVATION "B" ELEVATION "C" ELEVATION "D"

EXTERIOR ELEVATION (8'-6" X 32'-0") SCALE:1/4" = 1'-0" 3

SIGNAGE LEGEND

A: RESTROOM WALL SIGN - SEE SHEET A-0.1

B: RESTROOM DOOR SIGN - SEE SHEET A-0.1

D: ROOM ID SIGN - SEE SHEET A-0.1

NOTES

1. PLACE (2) PERMANENT METAL IDENTIFICATION LABELS ON EACH MODULE, REFER TO IR 16-1 SECTION 2.1.

   (1) LABEL AT REAR EXTERIOR AND (1) LABEL ABOVE CEILING LINE AT INTERIOR FRAME. LABELS WILL BE MECHANICALLY FASTENED AND SHOW THE DSA APPLICATION NUMBER, MANUFACTURERS NAME, SERIAL NUMBER, DESIGN LIVE LOAD FOR ROOF AND FLOOR FRAMING, CLIMATE ZONE, WIND SPEED, EXPOSURE CATEGORY, Kzt = 1.0 CBC

2. SEE SHEET A-0.1 FOR REQUIRED SIGNAGE. SIGNAGE TO BE PROVIDED AND INSTALLED BY OTHERS

3. BUILDING SHOWN AS FLUSH WITH GRADE. FOR ABOVE GRADE SYSTEMS, REFER TO LANDING AND RAMP SHEETS FOR CLARITY.

PROJECT SPECIFIC STATE AGENCY APPROVAL

PROJECT NAME:

SACRAMENTO CITY USD
McCLATHY HIGH SCHOOL
(1) 8'-6" X 21'-6" RESTRM / CUSTODIAL. BLDG
(1) 8'-6" X 32'-0" RESTRM BLDG

SHEET TITLE:

EXTERIOR ELEVATIONS (STUCCO FINISH)

REVISIONS

1	
2	
3	
4	
5	

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Silver Creek
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PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
8'-6" PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-27-2023

P.C. SHEET NUMBER

A-4.02

LIONÄKIS

2025 Nineteenth Street
Sacramento CA 95818
P 916.558.1900
www.lionakis.com

CONSULTANT

SEAL

LICENSED ARCHITECT BRIAN BELL C28712 REN 01-31-25 STATE OF CALIFORNIA

PROJECT

MCCLATCHY HIGH SCHOOL
ATHLETIC FIELD RENOVATION

3066 FREEPORT BLVD,
SACRAMENTO, CA 95818

CLIENT

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

425 1ST AVE, SACRAMENTO, CA 95818.

ISSUED

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MANAGEMENT

LIONAKIS PROJECT NO:	023040
DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	
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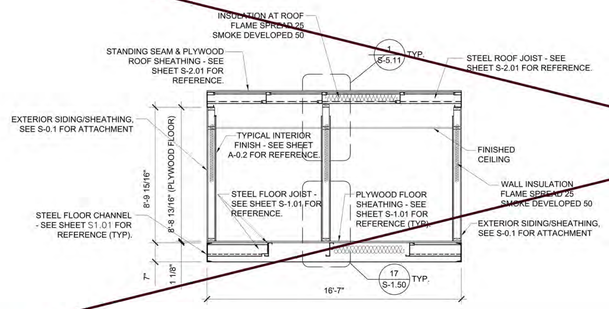
TITLE

EXTERIOR ELEVATIONS (STUCCO FINISH)

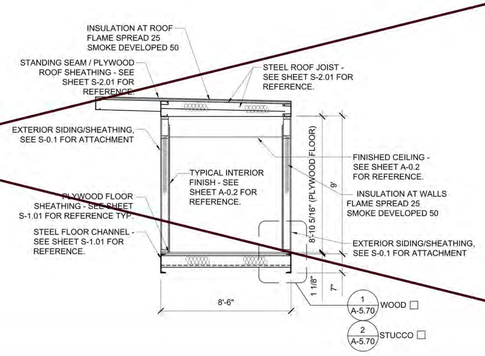
SHEET

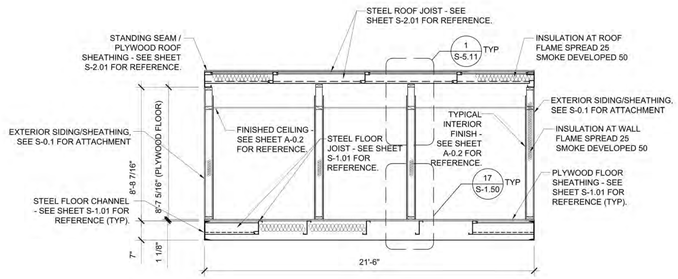
A-4.02

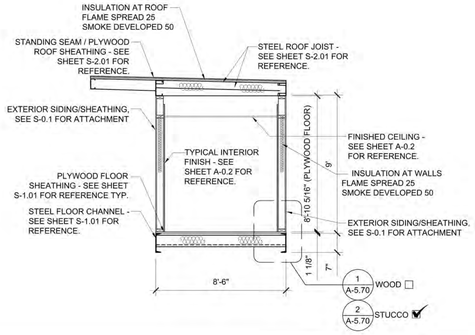


SIDEWALL BUILDING SECTIONS (8'-6"x16'-7")

SCALE: 3/8" = 1'-0" | 1

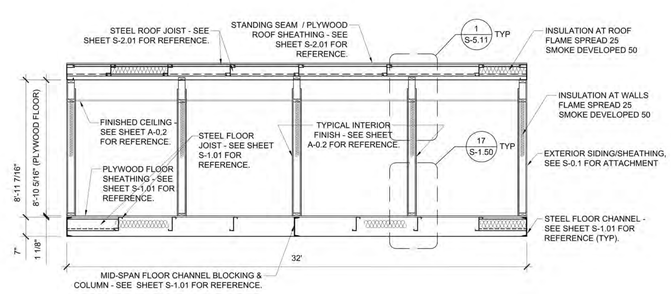


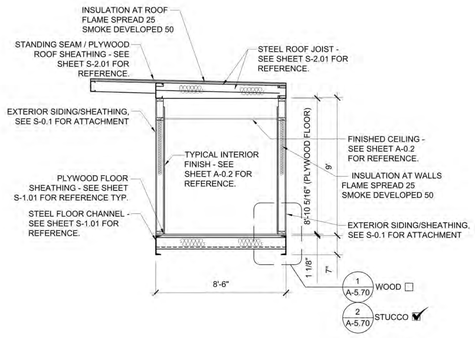




SIDEWALL BUILDING SECTIONS (8'-6"x21'-6")

SCALE: 3/8" = 1'-0" | 2





SIDEWALL BUILDING SECTIONS (8'-6"X32'-0")

SCALE: 3/8" = 1'-0" | 3

PROJECT SPECIFIC STATE AGENCY APPROVAL

PROJECT NAME:

SACRAMENTO CITY USD
McCLATHY HIGH SCHOOL
(1) 8'-6" X 21'-6" RESTRM / CUSTODIAL BLDG
(1) 8'-6" X 32'-0" RESTRM BLDG

SHEET TITLE:

CROSS SECTIONS

REVISIONS

1	
2	
3	
4	
5	

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
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FOR CONSTRUCTION IS REQUIRED

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DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARING 29175 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
8'-6" PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-27-2023

P.C. SHEET NUMBER

A-.5.01

LIONAKIS

2025 Nineteenth Street
Sacramento CA 95818
P 916.558.1900
www.lionakis.com

CONSULTANT

SEAL

LICENSED ARCHITECT BRIAN BELL C28712 REN 01-31-25 STATE OF CALIFORNIA

PROJECT

MCCLATCHY HIGH SCHOOL
ATHLETIC FIELD RENOVATION

3066 FREEPORT BLVD,
SACRAMENTO, CA 95818

CLIENT

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

425 1ST AVE, SACRAMENTO, CA 95818.

ISSUED

MARK	DATE	DESCRIPTION
	12/7/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

LIONAKIS PROJECT NO:	023040
DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	
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TITLE

CROSS SECTIONS

SHEET

A-5.01

NOT USED 16

NOT USED 17

NOT USED 18

NOT USED 19

NOT USED 20

NOT USED 11

NOT USED 12

NOT USED 13

NOT USED 14

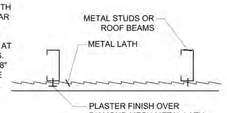
METAL LATH ATTACHMENT TO METAL JOIST SCALE : NTS 15

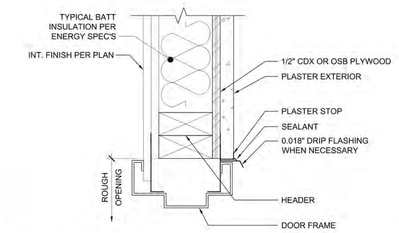
1. METAL LATH SHALL BE ATTACHED TO METAL SUPPORTS WITH NOT LESS #10 U.S. GAUGE THE WIRE SPACED NOT MORE THAN 6" APART OR WITH APPROVED EQUIVALENT ATTACHMENTS.

2. METAL LATH OR WIRE FABRIC SHALL BE APPLIED WITH THE LONG DIMENSION OF THE SHEETS PERPENDICULAR TO SUPPORTS.

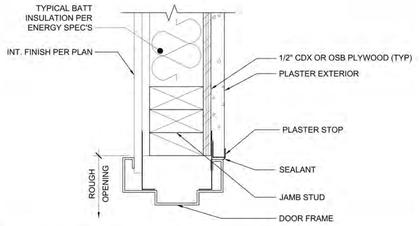
3. METAL LATH SHALL BE LAPPED NOT LESS THAN 1/2" AT SIDES AND 1" AT ENDS. WIRE FABRIC AT SIDES & ENDS. BUT NOT LESS THAN 1", AND METAL GREATER THAN 1/8" SHALL BE LAPPED AT THE SIDES BY NESTING OUTSIDE HOLE. WHERE EDGE LAPS OF SHEETS DO NOT OCCUR OVER SUPPORTS. THEY SHALL BE SECURELY TIED TOGETHER WITH NOT LESS THAN 18 GA. WIRE

4. CORNERITE SHALL BE INSTALLED IN ALL INTERNAL CORNERS TO RETAIN POSITION DURING PLASTERING CORNERITE MAY BE OMITTED WHEN LATH IS CONTINUOUS OR WHEN PLASTER IN NOT CONTINUOUS FROM ONE PLANE TO AN ADJACENT PLAN.

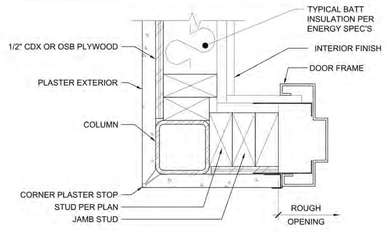




EXTERIOR DOOR HEADER SCALE : 3"=1'-0" 6



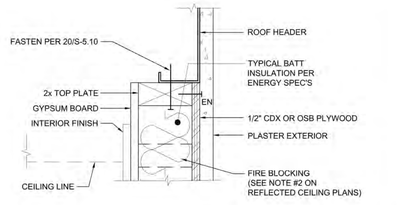
EXTERIOR DOOR JAMB SCALE : 3"=1'-0" 7



EXTERIOR DOOR JAMB SCALE : 3"=1'-0" 8

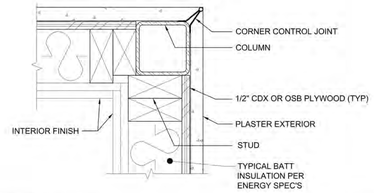
NOT USED 9

NOT USED 10



TOP PLATE AT ROOF HEADER SCALE : 3" = 1'-0" 5

NOTE:
SEE SHEET S-5.00, S-5.10 & S-5.11 FOR WALL FRAMING & FASTING.



COLUMN AT CORNER SCALE : 3"=1'-0" 2

NOT USED 3

NOT USED 4

PROJECT SPECIFIC STATE AGENCY APPROVAL

PROJECT NAME:
SACRAMENTO CITY USD
McCLATHY HIGH SCHOOL
(1) 8'-6" X 21'-6" RESTRM / CUSTODIAL BLDG
(1) 8'-6" X 32'-0" RESTRM BLDG

SHEET TITLE:
ARCHITECTURAL DETAILS
WOOD STUD - PLASTER

REVISIONS
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
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PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 29757 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
8'-6" PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
A-5.51

LIONÄKIS
2025 Nineteenth Street
Sacramento CA 95818
P 916.558.1900
www.lionakis.com

CONSULTANT

SEAL
LICENSED ARCHITECT BRIAN BELL C28712 REN 01-31-25 STATE OF CALIFORNIA

PROJECT
MCCLATCHY HIGH SCHOOL
ATHLETIC FIELD RENOVATION

3066 FREEPORT BLVD,
SACRAMENTO, CA 95818

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

425 1ST AVE, SACRAMENTO, CA 95818.

ISSUED

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MANAGEMENT

LIONAKIS PROJECT NO:	023040
DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	
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TITLE
ARCHITECTURAL DETAILS - WOOD STUD-PLASTER

SHEET
A-5.51

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0 1/4" 1/2" 1"

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12/8/2023 8:03:39 AM

NOT USED 16

NOT USED 17

NOT USED 18

NOT USED 19

NOT USED 20

NOT USED 11

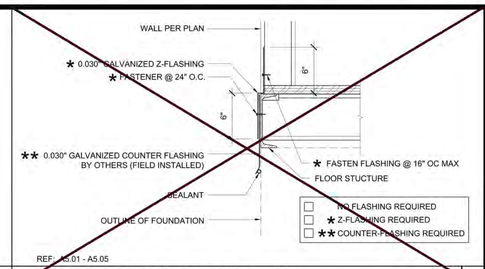
NOT USED 12

NOT USED 13

NOT USED 14

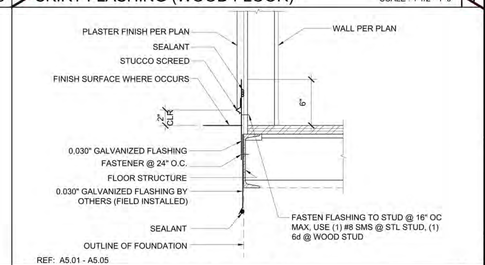
NOT USED 15

NOT USED 6



REF: A5.01 - A5.05

SKIRT FLASHING (WOOD FLOOR) SCALE : 1 1/2"=1'-0" 1

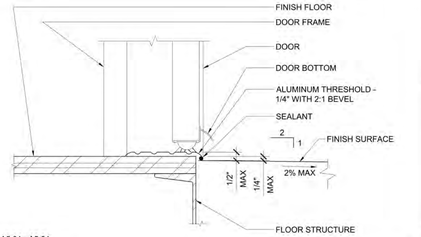


REF: A5.01 - A5.05

SKIRT FLASHING (WOOD FLOOR) SCALE : 1 1/2"=1'-0" 2

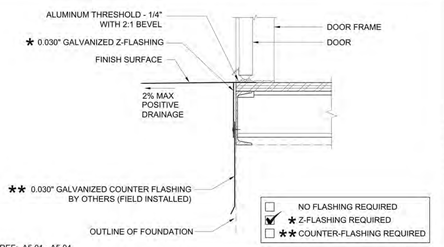
NOT USED 7

NOT USED 8



REF: A5.01 - A5.04

THRESHOLD SCALE : 3"=1'-0" 4



REF: A5.01 - A5.04

TYPICAL SILL AT FLOOR (WOOD FLOOR) SCALE : 1 1/2"=1'-0" 5

PROJECT SPECIFIC STATE AGENCY APPROVAL

PROJECT NAME:
SACRAMENTO CITY USD
McCLATHY HIGH SCHOOL
(1) 8'-6" X 21'-6" RESTRM /
CUSTODIAL BLDG
(1) 8'-6" X 32'-0" RESTRM BLDG

SHEET TITLE:
ARCHITECTURAL DETAILS
FLOOR

REVISIONS
1
2
3
4
5

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PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARK 29175 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
8'-6" PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
A-5.70

LIONAKIS
2025 Nineteenth Street
Sacramento CA 95818
P 916.558.1900
www.lionakis.com
CONSULTANT

SEAL
LICENSED ARCHITECT BRIAN BELL C28712 REN 01-31-25 STATE OF CALIFORNIA

PROJECT
MCCLATCHY HIGH SCHOOL
ATHLETIC FIELD RENOVATION

3066 FREEPORT BLVD,
SACRAMENTO, CA 95818

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

425 1ST AVE, SACRAMENTO, CA 95818.

ISSUED

MARK	DATE	DESCRIPTION
	12/7/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

LIONAKIS PROJECT NO:	023040
DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	
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TITLE
ARCHITECTURAL DETAILS FLOOR

SHEET
A-5.70

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0 1/4" 1/2" 1"

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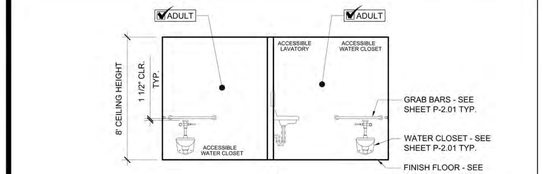
12/8/2023 8:03:34 AM



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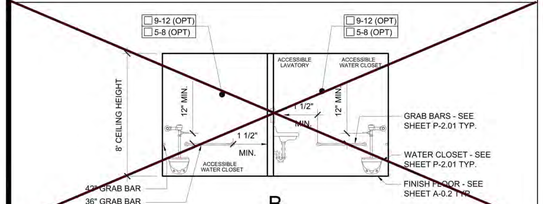

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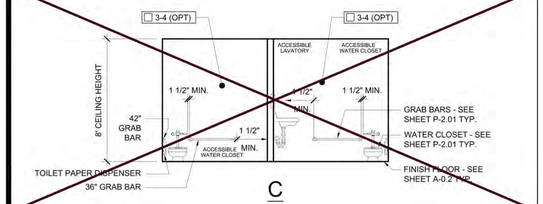

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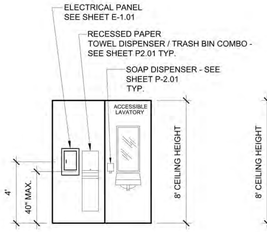

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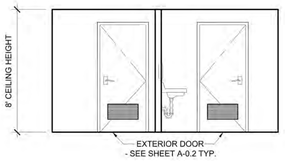

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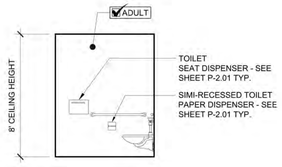

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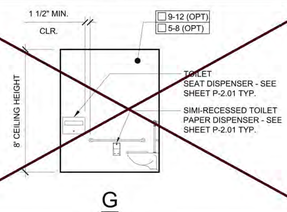

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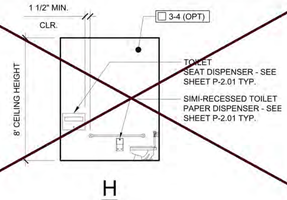

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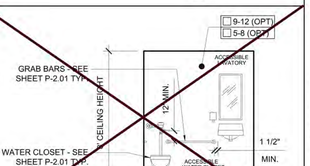
INTERIOR ELEVATIONS (8'-6" x 16'-7" / 8'-6" x 32'-0")

SCALE:1/4" = 1'-0" | 1

NOTES

1. SEE SHEET P-2.01 FOR ACCESSIBILITY DETAILS AND ACCESSORY DIMENSIONS.
2. WALL MOUNT WATER CLOSETS SHOWN AS STANDARD APPLICATION. SEE SHEET P-2.01 FOR PRECISE FIXTURE TYPE.
3. PRECISE FIXTURE HEIGHTS AND TOILET ACCESSORIES SHOWN ON SHEET P-2.01.
4. 4" MAX PROJECTION IF BOTTOM OF OBJECT HEIGHT FROM FINISH FLOOR IS MORE THAN 27".



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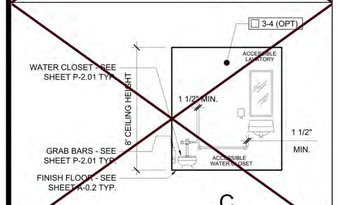

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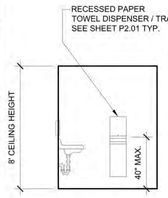

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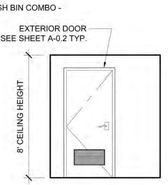

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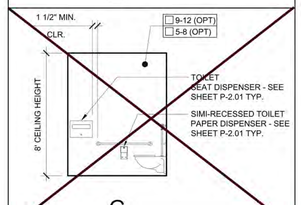

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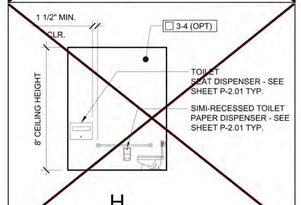

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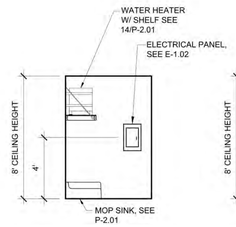

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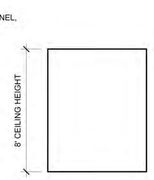

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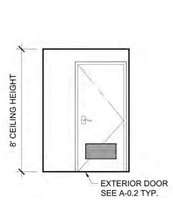

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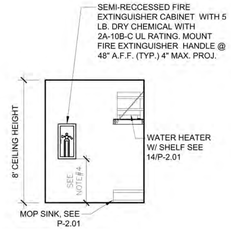

M

INTERIOR ELEVATIONS (8'-6" x 21'-6")

SCALE:1/4" = 1'-0" | 2

PROJECT SPECIFIC STATE AGENCY APPROVAL

PROJECT NAME:

SACRAMENTO CITY USD
McCLATHY HIGH SCHOOL
(1) 8'-6" X 21'-6" RESTRM / CUSTODIAL. BLDG
(1) 8'-6" X 32'-0" RESTRM BLDG

SHEET TITLE:

INTERIOR ELEVATIONS

REVISIONS

1	
2	
3	
4	
5	

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-122203 INC:
REVIEWED FOR:
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 29175 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
8'-6" PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-27-2023

P.C. SHEET NUMBER

A-6.01

LIONAKIS

2025 Nineteenth Street
Sacramento CA 95818
P 916.558.1900
www.lionakis.com

CONSULTANT

SEAL

LICENSED ARCHITECT BRIAN BELL C28712 REN 01-31-25 STATE OF CALIFORNIA

PROJECT

MCCLATCHY HIGH SCHOOL
ATHLETIC FIELD RENOVATION

3066 FREEPORT BLVD,
SACRAMENTO, CA 95818

CLIENT

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

425 1ST AVE, SACRAMENTO, CA 95818.

ISSUED

MARK	DATE	DESCRIPTION
	12/7/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

LIONAKIS PROJECT NO:	023040
DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	
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TITLE

INTERIOR ELEVATIONS

SHEET

A-6.01

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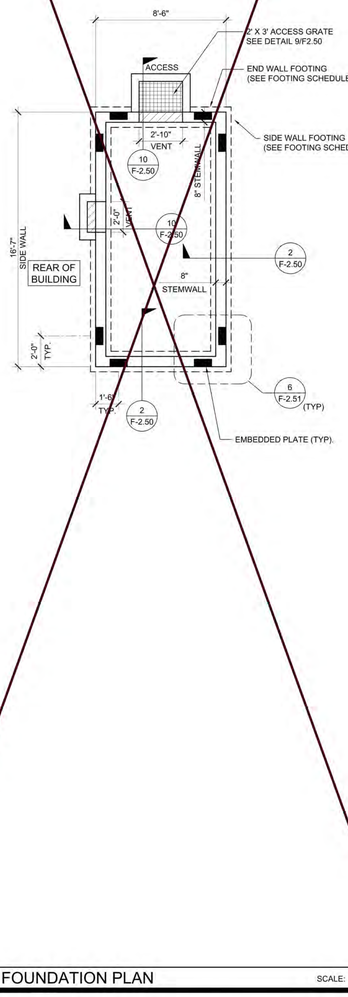
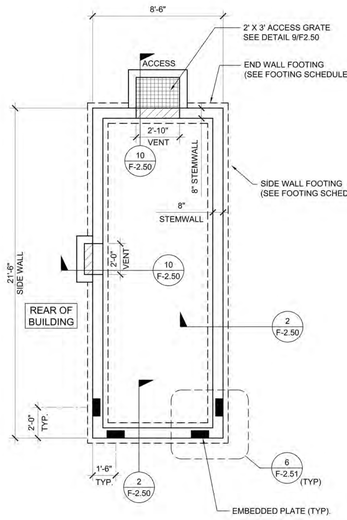
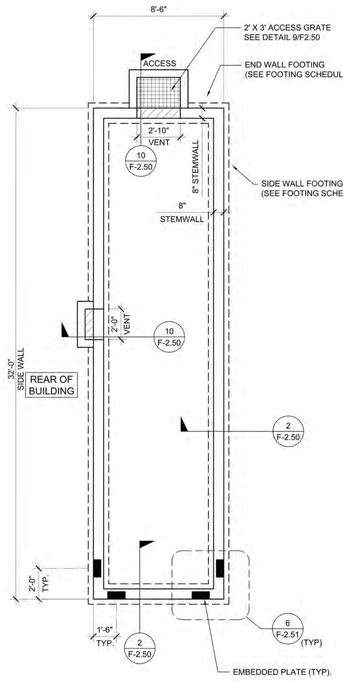


8'-6" x 16'-7" FOUNDATION PLAN SCALE: 1/4" = 1' - 0"



8'-6" x 21'-6" FOUNDATION PLAN SCALE: 1/4" = 1' - 0"



8'-6" x 32'-0" FOUNDATION PLAN SCALE: 1/4" = 1' - 0"

VENTING SCHEDULE

VENT "C" : (2'-3" x 8" METAL SCREEN COVER)
2'-0" x 5" x 60% (NET FREE AREA) = 0.50 S.F. VENTILATION

ACCESS/VENT "D" : (3'-0" x 2'-0" METAL SCREEN COVER)
2'-10" x 1'-6" x 60% (NET FREE AREA) = 2.55 S.F. VENTILATION

VENTING CALCULATION:

- ☐ 8'-6" x 16'-7" BUILDING: 8'-6" x 16'-7" = 140.96 SF / 150 = 0.94 SF VENT. REQ'D
- ☑ 8'-6" x 21'-6" BUILDING: 8'-6" x 21'-6" = 182.75 SF / 150 = 1.22 SF VENT. REQ'D
- ☑ 8'-6" x 32'-0" BUILDING: 8'-6" x 32'-0" = 272.00 SF / 150 = 1.83 SF VENT. REQ'D

D
C

1 - "C" VENT = 0.50 SF
1 - "D" ACCESS VENT = 2.55 SF
3.05 SF TOTAL VENTILATION (> 1.83 SF)

FOOTING SCHEDULE

DESIGN FLOOR LIVE LOAD	SIDEWALL FOOTING	ENDWALL FOOTING
☑ 50 PSF	16" WIDE (2) #5 CONT T & B	16" WIDE (2) #5 CONT T & B

NOTES

1. FOUNDATION PLAN HAS A 1/4" ADDED AT EACH MODULE LINE AND DOES NOT MATCH THE FLOOR PLAN. ADDITIONAL LENGTH ADDED FOR GROWTH THAT IS EXPERIENCED WHEN SETTING MULTIPLE MODULE BUILDINGS.
2. 8'-0" MAXIMUM VENT SIZE AT SIDE WALLS
   4'-0" MAXIMUM VENT SIZE AT END WALLS
   2'-0" MINIMUM DISTANCE FROM EDGE OF VENT TO STEMWALL CORNER
   2'-0" MINIMUM DISTANCE BETWEEN VENT EDGES
3. CRAWLSPACE VAPOR RETARDERS (OPTIONAL):

   THE OPTIONAL TOTAL AREA OF VENTILATION OPENINGS IS PERMITTED TO BE REDUCED TO 1/1500 FACTOR WITH AN APPROVED VAPOR RETARDER MATERIAL PER CBC SECTION 1202.4.1.2.
   MATERIALS:
   GROUND SURFACE COVERED WITH AN APPROVED VAPOR RETARDER MATERIAL; MUST HAVE A PERM RATING OF ONE OR LESS; SHOULD BE CONTINUOUS; POLYETHELYNE FILM (> 6 MIL); POOL LINER (PUNCTURE RESISTANT); AND POLYETHELYNE FILM WITH RAT SLAB.
   INSTALLATION RECOMMENDATIONS:
   OVERLAP JOINTS BY 6 INCHES; TAPE OR SEAL ALL JOINTS; EXTEND VAPOR RETARDER A MINIMUM OF 6 INCHES UP THE STEM WALL (MORE IS BETTER); ATTACH VAPOR RETARDER TO BOTTOM PLATES; SEAL TO ALL PIERS AND OTHER PENETRATIONS.
4. SOIL BEARING PRESSURE OF 1500 PSF USED FOR DESIGN.
5. PROFESSIONAL SOILS REPORT: IF A SOILS REPORT IS REQUIRED BY DSA ON THIS BUILDING(S) AND THE RECOMMENDATIONS CAUSE AN INCREASE IN THE COST OF THE ORIGINAL FOUNDATION, THEN THE DISTRICT AGREES TO ACCEPT AND APPROVE A CHANGE ORDER IN THE AMOUNT OF THE COST INCREASE.

PROJECT SPECIFIC STATE AGENCY APPROVAL

PROJECT NAME:
SACRAMENTO CITY USD
McCLATHY HIGH SCHOOL
(1) 8'-6" X 21'-6" RESTRM / CUSTODIAL BLDG
(1) 8'-6" X 32'-0" RESTRM BLDG

SHEET TITLE:
CONCRETE FOUNDATION PLAN
BELOW GRADE CONC.

REVISIONS
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
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APP. 04-122203 INC.
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 2975 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
8'-6" PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
F-2.01

LIONÄKIS

2025 Nineteenth Street
Sacramento CA 95818
P 916.558.1900
www.lionakis.com

CONSULTANT

SEAL
LICENSED ARCHITECT BRIAN BELL C28712 REN 01-31-25 STATE OF CALIFORNIA

PROJECT
MCCLATCHY HIGH SCHOOL
ATHLETIC FIELD RENOVATION

3066 FREEPORT BLVD,
SACRAMENTO, CA 95818

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

425 1ST AVE, SACRAMENTO, CA 95818.

ISSUED

MARK	DATE	DESCRIPTION
	12/7/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

LIONAKIS PROJECT NO:	023040
DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	
COPYRIGHT:	LIONAKIS 2017

TITLE
CONCRETE FOUNDATION PLANS - BELOW GRADE CONC.

SHEET
F-2.01

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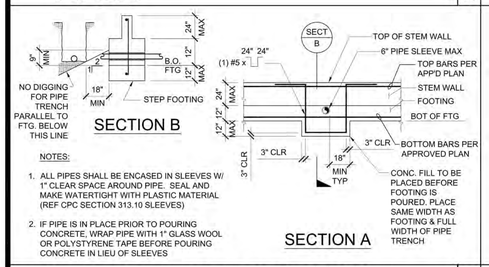
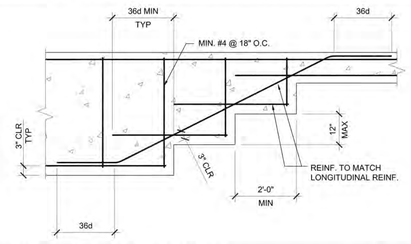


PIPE SLEEVE THRU FOUNDATION FOOTING SCALE : 1/4"=1'-0" 17

NOT USED 12

NOT USED 7

END WALL FOOTING - WELDED SCALE : 1" = 1'-0" 2



TYPICAL STEPPED FOOTING SCALE : 1/2"=1'-0" 18

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NOT USED 8

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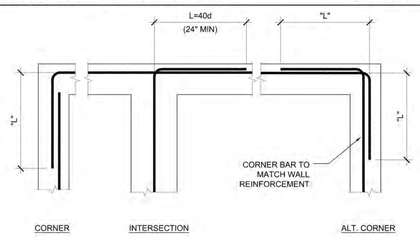
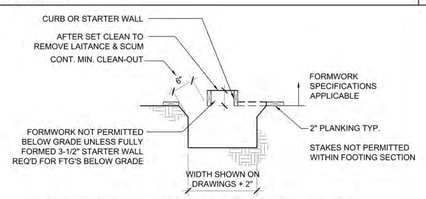
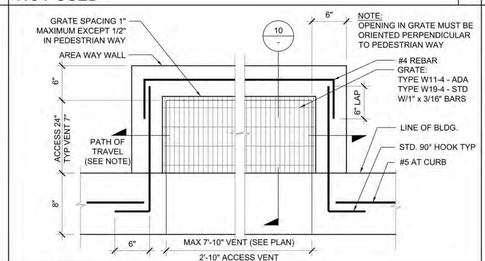


TYPICAL REINFORCING AT CORNER AND INTERSECTIONS SCALE : 3/4"=1'-0" 19



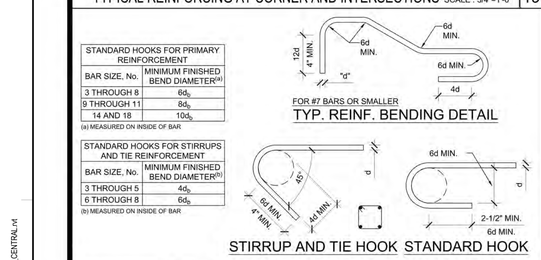
"FOUNDATION CONCRETE MAY BE PLACED DIRECTLY INTO NEAT EXCAVATIONS PROVIDED THE FOUNDATION TRENCH WALLS ARE STABLE AS DETERMINED BY THE ARCHITECT (STRUCTURAL ENGINEER). SUBJECT TO THE APPROVAL OF THE DIVISION OF THE STATE ARCHITECT. IN SUCH CASE THE MINIMUM FORMWORK SHOWN ON THE DRAWINGS IS MANDATORY TO INSURE CLEAN EXCAVATIONS IMMEDIATELY PRIOR TO AND DURING THE PLACING OF CONCRETE."

MANDATORY MINIMUM FORMWORK (UNLESS FULLY FORMED) SCALE : 1 1/2"=1'-0" 14



VENT SCALE : 1 1/2" = 1'-0" 9

NOT USED 4



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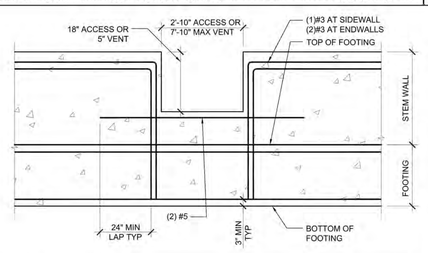
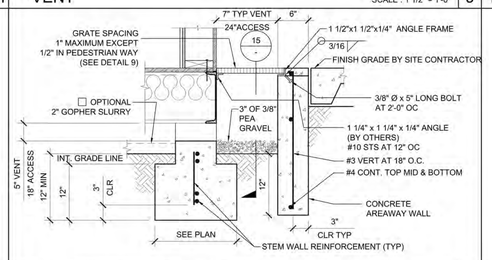


VENT OPENING SCALE : 1" = 1'-0" 15



VENT/ACCESS SECTION SCALE : 1" = 1'-0" 10

NOT USED 5

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SACRAMENTO CITY USD
McCLATHY HIGH SCHOOL
(1) 8'-6" X 21'-6" RESTRM / CUSTODIAL BLDG
(1) 8'-6" X 32'-0" RESTRM BLDG

SHEET TITLE:
CONCRETE FOUNDATION DETAILS BELOW GRADE

REVISIONS
1
2
3
4
5

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DATE 08/31/2023
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2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

SILVER CREEK INDUSTRIES
8'-6" PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
F-2.50

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Sacramento CA 95818
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CONSULTANT

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PROJECT
MCCLATCHY HIGH SCHOOL
ATHLETIC FIELD RENOVATION
3066 FREEPORT BLVD,
SACRAMENTO, CA 95818

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SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
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DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	
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TITLE
CONCRETE FOUNDATION DETAILS - BELOW GRADE

SHEET
F-2.50

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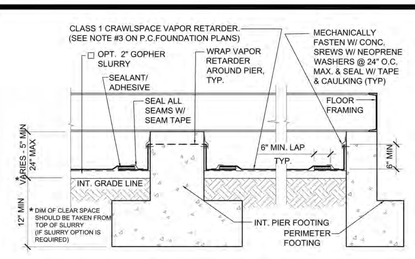
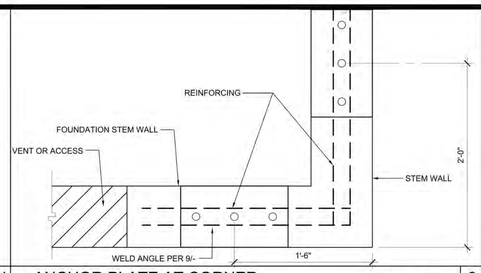
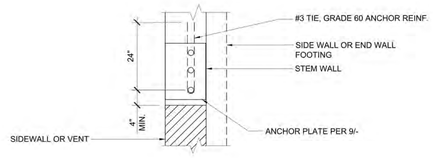
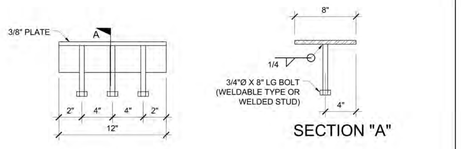
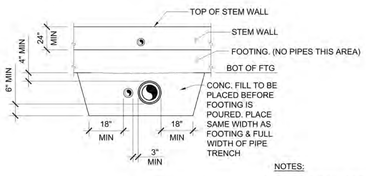
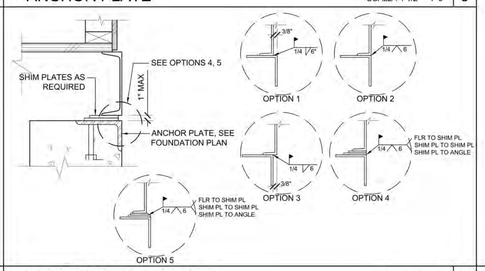
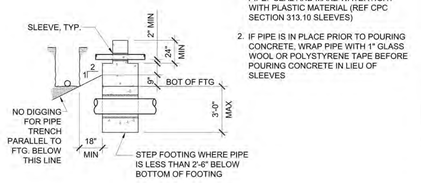
					
NOT USED	16	CRAWL SPACE VAPOR RETARDER	11	ANCHOR PLATE AT CORNER SCALE : 1 1/2" = 1'-0"	6	NOT USED	1
NOT USED	17	NOT USED	12	NOT USED	7	NOT USED	2
NOT USED	18	NOT USED	13	NOT USED	8	NOT USED	3
NOT USED	19	 ANCHOR PLATE AT SIDEWALL OR ENDWALL @ VENT	14	 SECTION "A" ANCHOR PLATE SCALE : 1 1/2" = 1'-0"	9		
NOT USED	20		15	 FOUNDATION - WELDED SCALE : 1 1/2" = 1'-0"	10	 PIPE SLEEVE DETAIL SCALE : 1/4 = 1'-0"	5

NOTES:

1. ALL PIPES SHALL BE ENCASED IN SLEEVES W/ 1" CLEAR SPACE AROUND PIPE. SEAL AND MAKE WATERTIGHT WITH PLASTIC MATERIAL (REF CPC SECTION 313.10 SLEEVES)
2. IF PIPE IS IN PLACE PRIOR TO POURING CONCRETE, WRAP PIPE WITH 1" GLASS WOOL OR POLYSTYRENE TAPE BEFORE POURING CONCRETE IN LIEU OF SLEEVES

PROJECT SPECIFIC STATE AGENCY APPROVAL

PROJECT NAME:

SACRAMENTO CITY USD
McCLATHY HIGH SCHOOL
(1) 8'-6" X 21'-6" RESTRM / CUSTODIAL. BLDG
(1) 8'-6" X 32'-0" RESTRM BLDG

SHEET TITLE:

CONCRETE FOUNDATION DETAILS

REVISIONS

1	
2	
3	
4	
5	

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-122203 INC.
REVIEWED FOR:
SS ☑ PCS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STAR STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
8'-6" PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-27-2023

P.C. SHEET NUMBER

F-2.51

LIONÄKIS

2025 Nineteenth Street
Sacramento CA 95818
P 916.558.1900
www.lionakis.com

CONSULTANT

SEAL

LICENSED ARCHITECT BRIAN BELL C28712 REN 01-31-25 STATE OF CALIFORNIA

PROJECT
MCCLATCHY HIGH SCHOOL
ATHLETIC FIELD RENOVATION

3066 FREEPORT BLVD,
SACRAMENTO, CA 95818

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

425 1ST AVE, SACRAMENTO, CA 95818.

ISSUED

MARK	DATE	DESCRIPTION
	12/7/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

LIONAKIS PROJECT NO:	023040
DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	
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TITLE

CONCRETE FOUNDATION DETAILS

SHEET

F-2.51

STRUCTURAL SPECIFICATIONS

FOUNDATIONS:

GEOTECHNICAL INVESTIGATIONS SHALL BE CONDUCTED IN ACCORDANCE WITH SECTIONS 1803A.3 THROUGH 1803A.8. EXCEPTIONS, 1) GEOTECHNICAL REPORTS ARE NOT REQUIRED FOR ONE-STORY, WOOD-FRAME AND LIGHT-STEEL-FRAME BUILDINGS OF TYPE II OR TYPE V CONSTRUCTION AND 4,000 SQUARE FEET OR LESS IN FLOOR AREA, NOT LOCATED WITHIN EARTHQUAKE FAULT ZONES OR SEISMIC HAZARD ZONES AS SHOWN IN THE MOST RECENTLY PUBLISHED MAPS FROM THE CALIFORNIA GEOLOGICAL SURVEY (CGS) OR IN SEISMIC HAZARD ZONES AS DEFINED IN THE SAFETY ELEMENT OF THE LOCAL GENERAL PLAN, 2) A PREVIOUS REPORT FOR A SPECIFIC SITE MAY BE RESUBMITTED, PROVIDED THAT A REEVALUATION IS MADE AND THE REPORT IS FOUND TO BE CURRENTLY APPROPRIATE. ALLOWABLE FOUNDATION AND LATERAL SOIL PRESSURE VALUES MAY BE DETERMINED FROM TABLE 1806A.2 PER CBC SECTION 1803A.2

CONCRETE

PROVIDE NECESSARY SHIMS ON FOOTINGS NOT LEVEL WITHIN THE 1/2" ALLOWABLE TOLERANCE. THE DISTRICT SHALL PROVIDE CLEAR AND UNOBSTRUCTED ACCESS TO THE SITE. THE DISTRICT IS RESPONSIBLE FOR ALL SURVEYING, STAKING THE BUILDING CORNERS, SETTING THE FINISH FLOOR ELEVATION, RIGGING, CRANING, EXCAVATION, SPOIL REMOVAL, AND BACKFILL.

THE FOUNDATION AND THE METHOD OF FASTENING THE UNITS SHALL BE AS SHOWN ON DRAWINGS WHERE APPLICABLE. HIGH STRENGTH GROUT SHALL BE EMBECO 885 NON-SHRINK, METALLIC AGGREGATE GROUT OR A DSA APPROVED EQUAL.

THE DESIGN OF CONRETE FOUNDATIONS WILL BE AS FOLLOWS:

1. FURNISH AND INSTALL ALL CONCRETE WORK AS SHOWN ON THE DRAWINGS AND AS SPECIFIED.
2. EXCEPT AS MODIFIED BY THE REQUIREMENTS SPECIFIED HEREIN AND / OR THE DETAILS ON THE DRAWINGS, ALL WORK INCLUDED IN THIS SECTION SHALL CONFORM TO THE APPLICABLE PROVISIONS OF CODES AND STANDARDS.
    - a) ALL WORK AND MATERIALS SHALL CONFORM TO TITLE 24, CALIFORNIA CODE OF REGULATIONS, AND CHAPTER 19A.
    - b) AMERICAN CONCRETE INSTITUTE (ACI): BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI 318-19
    - c) SOCIETY FOR TESTING AND MATERIALS (ASTM): THE SPECIFICATIONS AND STANDARDS HEREINAFTER REFERENCED TO SHALL BE OF THE LATEST EDITION.
3. CONCRETE FOUNDATION TESTS AND INSPECTIONS SHALL BE THE RESPONSIBILITY OF THE ARCHITECT AND OR INSPECTOR.
4. DESIGN MIXES SHALL BE AS FOLLOWS:

☐ WHERE A GEOTECHNICAL REPORT IS NOT PROVIDED:
MINIMUM COMPRESSIVE STRENGTH = 5,000 PSI
MAXIMUM WATER/CEMENT RATIO = 0.40
CEMENT TYPE = V COMPLYING WITH ACI 318-19, TABLE 19.3.2.1, FOOTNOTE 8
NORMAL WEIGHT
NO ADMIXTURES CONTAINING CALCIUM CHLORIDE

■ WHERE A GEOTECHNICAL REPORT IS PROVIDED WHICH INDICATES ONE OF THE FOLLOWING EXPOSURE CLASSIFICATIONS (F0, F1, S0, S1, W0, W1, C0, C1)
MINIMUM COMPRESSIVE STRENGTH = 4,000 PSI
MAXIMUM WATER/CEMENT RATIO = 0.50
CEMENT TYPE = II/V
NORMAL WEIGHT

NOTE: WHERE CONCRETE IS EXPOSED TO THAW AND FREEZE CYCLES IT SHALL BE AIR ENTRAINED PER ACI 318 SECTION 19.3.3.1.

5. FORMS SHALL BE SUBSTANTIAL, PLUMB, LEVEL, SQUARE, TRUE TO LINE, WATER TIGHT AND ACCURATE TO THE DIMENSIONS REQUIRED.
6. THE ARCHITECT SHALL APPROVE LOCATION OF:
    - a) OPENINGS FOR MECHANICAL AND ELECTRICAL: PROVIDE FOR OPENINGS IN THE CONCRETE WITH THE TRADE(S) INVOLVED AND INSTALL SLEEVES AS MAY BE REQUIRED.
    - b) OPENINGS FOR VENT WELLS FOR UNDER FLOOR VENTILATION: PROVIDE FOR ALL OPENINGS IN THE CONCRETE WITH THE TRADE(S) INVOLVED. INSTALL ALL SLEEVES AS MAY BE REQUIRED.
7. VARIANCE IN TOP OF STEMWALL AND/OR ANCHOR PLATE SURFACE SHALL BE NO MORE THAN 1/16" IN 10 FEET
8. ANCHOR BOLTS, DOWELS, REINFORCING STEEL, AND EMBEDDED ITEMS ARE TO BE SECURELY TIED IN PLACE BEFORE CONCRETE IS POURED "WET SETTING" IS NOT ALLOWED.
9. REFER TO ARCHITECTURAL, ELECTRICAL, AND MECHANICAL PLANS FOR SLEEVES, INSERTS CURBS, DEPRESSED AREAS, AND ETC.
10. CONCRETE MIX REQUIRED: CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGN FOR FOOTINGS TO PROFESSIONAL OF RECORD FOR APPROVAL PRIOR TO POURING CONCRETE.

1705A.3.3. WAIVER OF BATCH PLAN INSPECTION.

A. WHEN BATCH PLANT INSPECTION IS WAIVED, THE FOLLOWING REQUIREMENTS SHALL APPLY:

1. QUALIFIED TECHNICIAN OF THE TESTING LABORATORY SHALL CHECK THE FIRST BATCHING AT THE START OF DAY.
2. LICENSED WEIGHMASTER TO POSITIVELY IDENTIFY MATERIALS AS TO QUANTITY AND CERTIFY TO EACH LOAD BY A TICKET.
3. BATCH TICKETS, INCLUDING ACTUAL MATERIAL QUANTITIES AND WEIGHTS SHALL ACCOMPANY THE LOAD AND SHALL BE TRANSMITTED TO THE INSPECTOR OF RECORD BY A TRUCK DRIVER WITH LOAD IDENTIFIED THEREON. THE LOAD SHALL NOT BE PLACED WITHOUT A BATCH TICKET IDENTIFYING THE MIX. THE INSPECTOR WILL KEEP A DAILY RECORD OF PLACEMENTS, IDENTIFYING EACH TRUCK , IT'S LOAD, TIME OF RECEIPT AND APPROXIMATE LOCATION OF DEPOSIT IN THE STRUCTURE AND WILL TRANSMIT A COPY OF THE DAILY RECORD TO THE ENFORCEMENT AGENCY.

REINFORCING STEEL:

1. MATERIAL: ALL REINFORCING STEEL SHALL BE BILLET STEEL PER ASTM A-615 MIN. GRADE 60. EXCEPT #3 ANCHOR REINFORCEMENT SHALL BE GRADE 40.
2. SPLICES: ALL SPLICES SHALL BE LAPPED A MINIMUM 48" #5 BARS AND 30" #4 BARS UNLESS OTHERWISE DETAILED. SPLICES SHALL BE STAGGERED A MINIMUM OF 24" FROM ADJACENT HORIZONTAL BARS.
3. REINFORCING FABRICATION AND PLACEMENT: FABRICATION AND PLACING OF REINFORCING SHALL CONFORM TO THE "CODE OF STANDARD PRACTICE AND SPECIFICATIONS FOR PLACING REINFORCEMENT OF THE CONCRETE REINFORCING STEEL INSTITUTE".
4. MINIMUM COVERAGE: ALL REINFORCING SHALL HAVE THE FOLLOWING MINIMUM COVERAGE WITH CONCRETE:

LOCATION	AMOUNT
FORMED EARTH	2"
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"
WALL-EXPOSED FACE	
#5 OR SMALLER	2"
#6 OR LARGER	2"
WALL-UNEXPOSED FACE	3/4"

5. HOOKS SHALL BE STAGGERED IN ALTERNATING DIRECTIONS.

STRUCTURAL STEEL:

1. ALL STRUCTURAL STEEL OTHER THAN TUBE AND PIPE COLUMNS SHALL CONFORM TO ASTM A-36.
2. TUBE COLUMNS SHALL CONFORM TO ASTM A500 GRADE B, OR A1085
3. PIPE COLUMNS SHALL CONFORM TO ASTM A501 OR ASTM A53, TYPE E OR S, GRADE B. OR A1085
4. TUBE STEEL USED FOR RAMPS & STAIRS SHALL CONFORM TO ASTM A513 GRADE MT1020 OR BETTER

STEEL FRAME BUILDING/STEEL FRAME CONSTRUCTION SHALL MEET THE MINIMUM DESIGN REQUIREMENTS OF STUD SPACING, ETC. PER LATEST EDITION OF 2022 CALIFORNIA BUILDING CODE. ALL WORK AND MATERIALS SHALL CONFORM TO THE "SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" AND "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES," AMERICAN INSTITUTE OF STEEL CONSTRUCTION: TITLE 24, CCR, AND UNIFORM BUILDING CODE. STRUCTURAL STEEL SHALL BE MADE EITHER THE OPEN-HEARTH OR ELECTRIC FURNACE PROCESS ONLY AND SHALL CONFORM TO THE "SPECIFICATION FOR STRUCTURAL STEEL" ASTM DESIGNATION A36, CURRENT EDITION.

ROOF FRAMING, FLOOR FRAMING, AND WALL FRAMING SHALL BE PER MANUFACTURER'S PC PLANS AND PER APPLICABLE CODES.

ALL STRUCTURAL MEMBERS BELOW THE SUB-FLOOR, IE, GIRDERS, JOISTS, HEADERS, BLOCKING, SHALL BE STEEL. MINIMUM JOIST SPACING SHALL BE PER PLAN.

ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE AISC STANDARD SPECIFICATIONS, THE APPLICABLE REGULATORY AGENCY AND THE AMERICAN IRON AND STEEL INSTITUTE SPECIFICATIONS FOR DESIGN OR LIGHT GAUGE STEEL STRUCTURAL MEMBERS. WELDING: SHALL COMPLY WITH THE PERTINENT PROVISIONS OF THE APPLICABLE REGULATORY AGENCY. ALL WELDING SHALL BE DONE BY OPERATORS WHO ARE QUALIFIED AS PRESCRIBED IN THE "QUALIFICATION PROCEDURE" OF THE AMERICAN WELDING SOCIETY TO PERFORM THE TYPE OF WORK REQUIRED.

STEEL SHALL BE COATED WITH ONE SHOP COAT OF MANUFACTURER'S STANDARD CHASSIS PAINT OR EQUAL.

BOLTS:

ALL COMMON BOLTS AND ANCHOR BOLTS SHALL CONFORM TO ASTM A-307.

STRUCTURAL WELDING: SPECIAL INSPECTOR REQUIRED

GENERAL: DURING THE WELDING OF ANY MEMBER OR CONNECTION THAT IS DESIGNED TO RESIST LOADS AND FORCES REQUIRED BY THIS CODE.

ALL WELDS USED IN PRIMARY MEMBERS AND CONNECTIONS IN THE LATERAL FORCE-RESISTING SYSTEMS SHALL BE MADE WITH A FILLER METAL THAT HAS A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT/LBS AT MINUS 20 DEGREES F AS DETERMINED BY AWS CLASSIFICATION OR MANUFACTURER CERTIFICATION.

ALL STRUCTURAL WELDING SHALL BE BY "ELECTRIC ARC PROCESS" PER AWS STANDARD CODE FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION. ALL LIGHT GAUGE STEEL (SHEET STEEL) SHALL BE WELDED PER AWS D1.3. ALL REINFORCING STEEL SHALL BE WELDED WITH LOW HYDROGEN RODS PER AWS D1.4, OR REINFORCING STEEL SHALL CONFORM TO ASTM A-706. ALL SHOP WELDED MUST BE PERFORMED BY "APPROVED" WELDERS IN A SHOP OF A LICENSED FABRICATOR. ALL FIELD WELDING SHALL BE PERFORMED BY "APPROVED" WELDERS. ELECTRODES SHALL BE E70XX FOR STRUCTURAL STEEL AND REBAR AND SHALL BE E60XX FOR LIGHT GAUGE STEEL. ★ (SEE OPTIONAL PROCESS)

THE SPECIAL INSPECTOR NEED NOT BE CONTINUOUSLY PRESENT DURING WELDING OF THE FOLLOWING ITEMS, PROVIDED THE MATERIALS, WELDING PROCEDURES AND QUALIFICATION OF WELDERS ARE VERIFIED PRIOR TO THE START OF WORK: PERIODIC INSPECTIONS ARE MADE OF WORK IN PROGRESS, AND A VISUAL INSPECTION OF ALL WELDS IS MADE PRIOR TO SHIPMENT OF SHOP WELDING.

- a) FLOOR AND ROOF DECK WELDING.
- b) WELDED STUDS WHEN USED FOR STRUCTURAL DIAPHRAGM OR COMPOSITE SYSTEMS.
- c) WELDED SHEET STEEL FOR COLD-FRAMED STEEL FRAMING MEMBERS SUCH AS STUDS AND JOISTS WHICH ARE NOT PART OF AN ORDINARY MOMENT FRAME.
- d) SINGLE PASS FILLET WELDS NOT EXCEEDING 5/16".

MATERIAL SHALL BE IDENTIFIED BY MARKING OR STAMPING THE I.D. NUMBER ON STRUCTURAL STEEL COMPONENTS BY LICENSED FABRICATION SHOP.

ALL BUTT, BEVEL, GROOVE, VEE, U AND J WELDS SHALL BE PREQUALIFIED COMPLETE PENETRATION WELDS.

FILLER MATERIAL FOR WELDING: SHIELDED METAL-ARC: AWS A5.1 OR 15.5 E70XX ELECTRODES.

HOLES IN STRUCTURAL STEEL SHALL NOT BE PERMITTED UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS.

STRUCTURAL STEEL SHALL BE THOROUGHLY CLEANED BY SCRAPING OR WIRE BRUSHING AND SHOP PRIMED.

ALL STEEL WORK, INCLUDING WELD AND CONNECTIONS EXCEPT WHERE ENTIRELY ENCASED IN CONCRETE SHALL BE GIVEN ONE COAT OF ACCEPTABLE METAL PROTECTION WELL WORKED INTO JOINTS AND OPEN SPACES.
★ OPTIONAL USE OF: FCAW PROCESS: E71T-8 FOR STRUCTURAL/REBAR (MEETS ALL CHARPY REQUIREMENTS)
E71T-11 FOR METAL DECKING

COLD-FORMED STEEL FRAMING:

STRUCTURAL LIGHT GAUGE STEEL FRAMING AND ACCESSORIES SHALL BE FABRICATED IN ACCORDANCE WITH ASTM A-1011/A GRADE AS LISTED BELOW, SEE PLAN FOR MINIMUM YIELD.
MATERIAL THICKNESS 0.060" OR LESS: ASTM A-1011/A GRADE 33 (UNO)
MATERIAL THICKNESS 0.060" OR GREATER: ASTM A-1011/A GRADE 50

SHEET STEEL DESIGNATION (GAUGE)	MINIMUM DELIVERED THICKNESS (INCHES)
26	0.017
22	0.029
20	0.034
18	0.046
16	0.057
14	0.071
12	0.100
11	0.114
10	0.128

LIGHT GAUGE STEEL STUDS AND TRACKS SHALL COMPLY WITH ASTM A-1003 STRUCTURAL GRADE 33 TYPE H

ALL WELDING SHALL BE IN CONFORMANCE WITH AWS D1.3, "STRUCTURAL WELDING CODE - SHEET STEEL". QUALIFICATION OF WELDERS SHALL BE IN ACCORDANCE WITH AWS D1.1, CHAPTER 5, PART C, "WELDER QUALIFICATIONS".

BOLTS, SCREWS, ETC. EXPOSED TO THE EXTERIOR SHALL BE GALVANIZED

MACHINE BOLTS USED SHALL CONFORM TO SPECIFICATIONS OF ASTM STANDARD A-307.

NTD:

(b) CJP GROOVE WELD NDT

ULTRASONIC TESTING SHALL BE PERFORMED ON 100 PERCENT OF CJP GROOVE WELDS IN MATERIALS 5/16 in. (8mm) THICK OR GREATER. ULTRASONIC TESTING IN MATERIALS LESS THAN 5/16 in. (8 mm) THICK IS NOT REQUIRED. MAGNETIC PARTICLE TESTING SHALL BE PERFORMED ON 25 PERCENT OF ALL BEAM-TO-COLUMN CJP GROOVE WELDS.

WOOD:

FRAMING: ALL FRAMING LUMBER SHALL BE GRADE MARKED BY AN APPROVED GRADING AGENCY AND SHALL BE OF THE FOLLOWING MINIMUM GRADES OR BETTER, PER WCLB RULES #16. MOISTURE CONTENT = 19% MAX.
PLATES AND BLOCKING - STANDARD GRADE OR BETTER
STUDS AND HEADER = HF #2, OR DF #2, OR BETTER

SHEATHING:

AMERICAN PLYWOOD ASSOCIATION PS 1-07. EACH SHEET SHALL BE GRADE MARKED BY THE AMERICAN PLYWOOD ASSOCIATION, AND SHALL CONFORM TO THE REQUIREMENTS OF STANDARD GRADE GROUP 1 OR BETTER GRADE STAMPED AND IDENTIFIED UNDER THE PROCEDURES AND QUALIFICATIONS SET FORTH BY PS 1-07.

1. PLYWOOD SUB FLOOR: 1 1/8" T&G UNBLOCKED PLYWOOD. PROVIDE SEAMLESS WOVEN POLYFLEX BOTTOM BOARD FOR MOISTURE PROTECTION
2. PLYWOOD ROOF DECK: APA RATED 3/4" T&G OSB OR EQUIVALENT RATED SHEATHING WITH APPROVAL FROM DSA
3. EXTERIOR WALL SIDING:
    - i. STANDARD: 5/8" DURATEMP OR 5/8" SMART PANEL
    - ii. OPTIONAL: 5/8" MDO
    - iii. OPTIONAL: 1/2" OSB OR CDX PLYWOOD FOR PLASTER/STUCCO FINISH
4. EXTERIOR WALL SIDING ATTACHMENT:
FASTENERS USED FOR THE ATTACHMENT OF EXTERIOR WALL COVERINGS SHALL BE HOT-DIPPED GALVANIZED, MECHANICALLY DEPOSITED ZINC-COATED, STAINLESS STEEL, SILICON BRONZE OR COPPER PER CBC SECTION 2304.10.1.1

TREATED WOOD:

ALL WOOD INCLUDING WOOD SHEATHING IN CONTACT WITH CONCRETE OR MASONRY AND LOCATED LESS THAN 18" FROM EXPOSED EARTH SHALL BE "PRESERVATIVE TREATED" OR SHALL BE "NATURALLY DURABLE" MATERIAL PER (CBC SECTION 2304.12.1.2).

1. ALL ROUGH LUMBER SHALL BE DF #2 OR BETTER.
2. WOOD FASTENERS OTHER THAN SCREWS.
ALL POWER DRIVEN FASTENERS SHALL BE HILTI FASTENERS ICC# ESR-1663, AND RAMSET POWER DRIVEN FASTENERS (ICC# ESR-1799), OR SIMPSON POWER DRIVEN FASTENERS ICC #ESR-2138, OR OTHER EQUIVALENT PRODUCTS WITH ICC REPORTS AND APPROVED BY DSA.
3. FASTENERS, INCLUDING NUTS AND WASHERS, IN CONTACT WITH PRESERVATIVE-TREATED WOOD SHALL BE OF HOT-DIPPED ZINC-COATED GALVANIZED STEEL, STAINLESS STEEL, SILICON BRONZE OR COPPER PER CBC 2304.10.5.1

CONTINUOUS INSPECTION:

PROJECT INSPECTOR TO PROVIDE CONTINUOUS FIELD INSPECTION.

IN-PLANT INSPECTOR SHALL PROVIDE CONTINUOUS INSPECTION IN-PLANT

METALS, STRUCTURAL, AND MISC. STEEL:

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, AND SERVICES REQUIRED FOR STRUCTURES AND MISCELLANEOUS STEEL AS SPECIFIED AND INDICATED IN THE DRAWINGS.

STEEL SHEETS: STEEL SHEETS FOR LIGHT GAUGE STEEL SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-1011/A, GRADE 40 U.O.N. SHEET METAL GRAVEL STOPS AND FLASHINGS SHALL BE MINIMUM 0.030 THICKNESS AND SHALL BE GALVANIZED.

ERECTION:
ALL STRUCTURAL STEEL SHALL BE ERECTED TRUE, STRAIGHT, PLUMB AND TO ITS DESIGNED LOCATION. TEMPORARY BRACING OR SHORING SHALL BE INSTALLED WHEREVER NECESSARY TO TAKE CARE OF LOADS TO WHICH THE STRUCTURE MAY BE SUBJECTED, INCLUDING ERECTION EQUIPMENT AND THE OPERATION OF SAME. CONNECTIONS SHALL BE ADEQUATE TO WITHSTAND STRESSES TO WHICH THEY ARE NORMALLY SUBJECTED. CONNECTIONS SHALL BE STEEL, EXCEPT AS OTHERWISE NOTED. FIELD CONNECTIONS SHALL BE BOLTED OR WELDED AS SHOWN ON THE DRAWINGS.

SHOP PAINT:

* EXPOSED STEEL COATED WITH ONE SHOP COAT OF PRIMER.
* NON-EXPOSED STEEL COATED WITH ON SHOP COAT OF PRIMER.
* ALL SURFACES THOROUGHLY CLEANED BY EFFECTIVE MEANS PRIOR TO APPLICATION OF SHOP COATS.

POWER DRIVEN FASTENERS FOR SILL PLATE, WOOD NAILERS TO STEEL COLUMNS, AND SHEET METAL TO STRUCTURAL STEEL:

ALL POWER DRIVEN FASTENERS SHALL BE HILTI FASTENERS ICC# ESR-1663, OR RAMSET POWER DRIVEN FASTENERS (ICC# ESR-1799), OR SIMPSON POWER DRIVEN FASTENERS ICC #ESR-2138, OR OTHER EQUIVALENT PRODUCTS WITH ICC REPORTS AND APPROVED BY DSA.

WOOD ROUGH CARPENTRY:

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS AND STEPS NECESSARY TO PROTECT ALL COMPLETED, SEMI-COMPLETED, AND TEMPORARY WORK FROM COMMENCEMENT OF PROJECT TO COMPLETE, SEMI-COMPLETION OF SAME ANY PORTION OF THE WORK DAMAGED OR DISFIGURED SHALL BE SATISFACTORILY REPAIRED OR REPLACED AND THE WORK AS A WHOLE LEFT WITHOUT BLEMISH AT FINAL ACCEPTANCE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING ALL NECESSARY MEASUREMENTS AT THE BUILDING, THE ACCURATE FITTING OF ALL WORK AND PROPER ACCOMMODATION OF OTHER TRADES.

DESCRIPTION OF WORK:

THIS SECTION INCLUDES FURNISHING OF ALL LABOR, MATERIAL, TOOLS, EQUIPMENT, TRANSPORTATION, AND FACILITIES TO COMPLETE ROUGH CARPENTRY AS INDICATED IN THE DRAWINGS AND AS SPECIFIED HEREIN.

WORKMANSHIP:

ALL WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE BEST PRACTICE, SHALL BE ACCURATE AS TO MEASUREMENT AND SHALL BE CAREFULLY DONE. PLYWOOD SHEATHING SUBFLOOR SHALL PROVIDE A SMOOTH UNIFORM SURFACE CAPABLE PROPERLY ACCEPTING A CARPET FINISH.

ROOF DIAPHRAGM:

3/4" T&G APA RATED SHEATHING - STRUCTURE 1 EXPOSURE 1
SPAN RATING 48/24 MIN.
FASTEN TO ROOF JOISTS AND BEAMS W/ #10 X 1 1/4" LG. SELF DRILLING SELF-TAPPING PHILLIPS FLAT-HEAD ZINC COATED TEKS SCREWS AT 4" OC AT BOUNDARIES, 6" OC AT EDGES, AND 12" OC FIELD SCREWS. MIN. 3/8" EDGE DISTANCE FOR FASTENERS TO PLYWOOD EDGE PER CBC SECTION 2306.2.

FLOOR DIAPHRAGM:

1 1/8" PLYWOOD - STURD-I-FLOOR
EXTERIOR - TONGUE AND GROOVE EDGES
SPAN RATING: 48"
FASTEN TO FLOOR JOISTS AND BEAMS W/ #10 - 24 X 1 3/4 LG. SELF-DRILLING, SELF-TAPPING PHILLIPS FLAT-HEAD ZINC COATED TEKS SCREWS MIN. 3/8" EDGE DISTANCE FOR FASTENERS TO PLYWOOD EDGE PER CBC SECTION 2306.2.

@ 150-PSF ((FULLY BLOCKED))
FASTEN TO SHEET METAL SUPPORTS w/ #10 - 24 x 1 3/4 LG. SELF-DRILLING, SELF-TAPPING PHILLIPS FLAT-HEAD ZINC COATED TEKS SCREWS AT 4" O.C. BOUNDARIES + CONT. PANEL EDGES, 6" O.C. @ ALL OTHER PANEL EDGES 12" O.C. INTERMEDIATE.
ALL EDGES OF ALL PANELS SHALL BE ATTACHED TO FRAMING MEMBERS OR BLOCKING. WHERE USED AS BLOCKING, FLAT STRAPPING SHALL BE A MINIMUM THICKNESS OF 33 MILS WITH A MINIMUM WIDTH OF 1.5 INCHES. SCREWS SHALL BE INSTALLED THROUGH THE SHEATHING TO THE BLOCKING.

CONCRETE FLOOR DATA: LIGHTWEIGHT CONCRETE FLOOR
STRENGTH: 3000 PSI MIN
TYPE: I OR II
DENSITY: 110 PCF - MAX

DIMENSION LUMBER ATTACHMENT TO STEEL FRAMING:

2 X STUDS AT CORNER STEEL COLUMNS (NAILING STUD)
USE: #10 - 24 X 2 1/2" LG. SELF-DRILLING SELF-TAPPING PHILLIPS FLAT-HEAD WITH WASHER ZINC COATED TEK SCREWS AT 24" O.C.

REFERENCE STANDARDS NOTES:

INTENT OF DRAWINGS AND SPECIFICATIONS IS TO CONSTRUCT THE BUILDING IN ACCORDANCE WITH THE STATE OF CALIFORNIA, CALIFORNIA CODE OF REGULATIONS, PART 1, 2, 3, 4, 5, 6, 9, AND 12, SUB-CHAPTER 1. CALIFORNIA BUILDING CODE, 2022 EDITION, MANUAL OF STEEL CONSTRUCTION, (AISC) 15TH EDITION, AMERICAN WELDING SOCIETY, STRUCTURAL WELDING CODE, AWS D1.1, AMERICAN INSTITUTE OF TIMBER CONSTRUCTION STANDARD, (AITC) 109 ARCHITECTURAL SHEET METAL MANUAL, AIA FILE NO. 12-L (SMACNA) LATEST ADOPTED EDITION UNLESS OTHERWISE NOTED.

WORKMANSHIP:

WORKMANSHIP AND MATERIALS SHALL BE SUCH THAT BUILDING WILL BE WEATHERTIGHT AND WATERTIGHT.

INSPECTIONS:

A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.

CHANGES:

CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDA OR A CONSTRUCTION CHANGE DOCUMENT APPROVED BY THE DIVISION OF THE STATE ARCHITECT AS REQUIRED BY SECTION 4-338. PART 1. TITLE 24. CCR.

NAILING NOTES:

1. ALL NAILS SHALL BE COMMON UNLESS OTHERWISE NOTED
2. MACHINE APPLIED 16d FASTENERS SHALL HAVE AN EMBEDMENT OF NOT LESS THAN 1 1/2" INTO THE SECOND MEMBER, AND SHALL BE NOT LESS THAN 3" IN OVERALL LENGTH. THE ABOVE NAILS SHALL ALSO BE ACCEPTABLE FOR HAND NAILING, PROVIDED THE REQUIRED EMBEDMENT IS MAINTAINED.

CONNECTION AND FASTENERS:

ALL CONNECTIONS AND FASTENERS AS STATED ON THESE DRAWINGS CAN BE SUBSTITUTED BY AN EQUIVALENT PRODUCT WITH ICC REPORTS AND APPROVAL BY DSA.

CONNECTION OF LAG SCREWS:

AS REQUIRED PER ANSI / AF&FA NDS-2012, LAG SCREWS MUST BE INSTALLED INTO A PRE-DRILLED PILOT HOLE WITH A STANDARD WASHER AND TURNED WITH A WRENCH. DO NOT DRIVE IN WITH A HAMMER. OVER-TORQUING CAN SIGNIFICANTLY REDUCE THE LATERAL RESISTANCE OF THE LAG SCREW AND SHOULD BE AVOIDED.

FASTENING SCHEDULE (2022 CBC TABLE 2304.10.1)

DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER	SPACING AND LOCATION
Roof		
1. Blocking between ceiling joists, rafters or trusses to top plate or other framing below	3-8d common (2 1/2" × 0.131"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown	Each end, toenail
Blocking between rafters or truss not at the wall top plate, to rafter or truss	2-8d common (2 1/2" × 0.131") 2-3" × 0.131" nails 2-3" 14 gage staples	Each end, toenail
	2-16 d common (3 1/2" × 0.162") 3-3" × 0.131" nails 3-3" 14 gage staples	End nail
Flat blocking to truss and web filler	16d common (3 1/2" × 0.162") @ 6" o.c. 3" × 0.131" nails @ 6" o.c. 3" × 14 gage staples @ 6" o.c	Face nail
2. Ceiling joists to top plate	3-8d common (2 1/2" × 0.131"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown	Each joist, toenail
3. Ceiling joist not attached to parallel rafter, laps over partitions (no thrust) (see Section 2308.7.3.1, Table 2308.7.3.1)	3-16d common (3 1/2" × 0.162"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown	Face nail
4. Ceiling joist attached to parallel rafter (heel joint) (see Section 2308.7.3.1, Table 2308.7.3.1)	Per Table 2308.7.3.1	Face nail
5. Collar tie to rafter	3-10d common (3" × 0.148"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown	Face nail
6. Rafter or roof truss to top plate (See Section 2308.7.5, Table 2308.7.5)	3-10 common (3" × 0.148"); or 3-16d box (3 1/2" × 0.135"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131 nails; or 4-3" 14 gage staples, 7/16" crown	Toenail[c]
7. Roof rafters to ridge valley or hip rafters; or roof rafter to 2-inch ridge beam	2-16d common (3 1/2" × 0.162"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown; or	End nail
	3-10d common (3" × 0.148"); or 4-16d box (31/2" × 0.135"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown	Toenail
Wall		
8. Stud to stud (not at braced wall panels)	16d common (3 1/2" × 0.162");	24" o.c. face nail
	10d box (3" × 0.128"); or 3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown	16" o.c. face nail
9. Stud to stud and abutting studs at intersecting wall corners (at braced wall panels)	16d common (3 1/2" × 0.162"); or	16" o.c. face nail
	16d box (3 1/2" × 0.135"); or	12" o.c. face nail
	3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown	12" o.c. face nail
10. Built-up header (2" to 2" header)	16d common (3 1/2" × 0.162"); or	16" o.c. each edge, face nail
	16d box (3 1/2" × 0.135")	12" o.c. each edge, face nail
11. Continuous header to stud	4-8d common (2 1/2" × 0.131"); or 4-10d box (3" × 0.128")	Toenail
12. Top plate to top plate	16d common (3 1/2" × 0.162"); or	16" o.c. face nail
	10d box (3" × 0.128"); or 3" × 0.131" nails; or 3" 14 gage staples, 7/16" crown	12" o.c. face nail
13. Top plate to top plate, at end joints	8-16d common (3 1/2" × 0.162"); or 12-10d box (3" × 0.128"); or 12-3" × 0.131" nails; or 12-3" 14 gage staples, 7/16" crown	Each side of end joint, face nail (minimum 24" lap splice length each side of end joint)
14. Bottom plate to joist, rim joist, band joist or blocking (not at braced wall panels)	16d common (3 1/2" × 0.162"); or	16" o.c. face nail
	16d box (3 1/2" × 0.135"); or 3" × 0.131" nails; or 3" 14 gage staples, 7/16" crown	12" o.c. face nail
15. Bottom plate to joist, rim joist, band joist or blocking at braced wall panels	2-16d common (3 1/2" × 0.162"); or 3-16d box (3 1/2" × 0.135"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown	16" o.c. face nail
16. Stud to top or bottom plate	4-8d common(2 1/2" × 0.131"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown; or	Toenail
	2-16d common (3 1/2" × 0.162"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown	End nail
17. Top plates, laps at corners and intersections	2-16d common (3 1/2" × 0.162"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown	Face nail
18. 1" brace to each stud and plate	2-8d common (2 1/2" × 0.131"); or 2-10d box (3" × 0.128"); or 2-3" × 0.131" nails; or 2-3" 14 gage staples, 7/16" crown	Face nail
19. 1" × 6" sheathing to each bearing	2-8d common (2 1/2" × 0.131"); or 2-10d box (3" × 0.128")	Face nail
20. 1" × 8" and wider sheathing to each bearing	3-8d common (2 1/2" × 0.131"); or 3-10d box (3" × 0.128")	Face nail
Floor		
21. Joist to sill, top plate, or girder	3-8d common (2 1/2" × 0.131"); or floor 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown	Toenail
22. Rim joist, band joist, or blocking to top plate, sill or other framing below	8d common (2 1/2" × 0.131"); or 10d box (3" × 0.128"); or 3" × 0.131" nails; or 3" 14 gage staples, 7/16" crown	6" o.c., toenail
23. 1" × 6" subfloor or less to each joist	2-8d common (2 1/2" × 0.131"); or 2-10d box (3" × 0.128")	Face nail
24. 2" subfloor to joist or girder	2-16d common (3 1/2" × 0.162")	Face nail
25. 2" planks (plank & beam — floor & roof)	2-16d common (3 1/2" × 0.162")	Each bearing, face nail
26. Built-up girders and beams, 2" lumber layers	20d common (4" × 0.192")	32" o.c., face nail at top and bottom staggered on opposite sides
	10d box (3" × 0.128"); or 3" × 0.131" nails; or 3" 14 gage staples, 7/16" crown	24" o.c. face nail at top and bottom staggered on opposite sides
	And: 2-20d common (4" × 0.192"); or 3-10d box (3" × 0.128"); or 3-3" × 0.131" nails; or 3-3" 14 gage staples, 7/16" crown	Ends and at each splice, face nail
27. Ledger strip supporting joists or rafters	3-16d common (3 1/2" × 0.162"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown	Each joist or rafter, face nail
28. Joist to band joist or rim joist	3-16d common (3 1/2" × 0.162"); or 4-10d box (3" × 0.128"); or 4-3" × 0.131" nails; or 4-3" 14 gage staples, 7/16" crown	End nail
29. Bridging or blocking to joist, rafter or truss	2-8d common (2 1/2" × 0.131"); or 2-10d box (3" × 0.128"); or 2-3" × 0.131" nails; or 2-3" 14 gage staples, 7/16" crown	Each end, toenail

Wood structural panels (WSP), subfloor, roof and interior wall sheathing to framing and particleboard wall sheathing to framing[a]

		Edges (inches)	Intermediate supports (inches)
30. 3/8" — 1/2"	6d common or deformed (2" × 0.113") (subfloor and wall)	6	12
	8d common or deformed (2 1/2" × 0.131") (roof) or RSRS-01 (2 3/8" × 0.113") nail (roof)[d]	6	12
	2 3/8" × 0.113" nail (subfloor and wall)	6	12
	2 3/8" × 0.113" nail (roof)	4	8
31. 19/32" — 3/4"	8d common (2 1/2" × 0.131"); or 6d deformed (2" × 0.113") (subfloor and wall)	6	12
	8d common or deformed (2 1/2" × 0.131") (roof) or RSRS-01 (2 3/8" × 0.113") nail (roof)[d]	6	12
	2 3/8" x 0.113" nail	4	8
32. 7/8" — 11/4"	10d common (3" × 0.148"); or 8d deformed 2 1/2" 0.131")	6	12
Other exterior wall sheathing			
33. 1/2" fiberboard sheathing[b]	1 1/2" galvanized roofing nail (7/16" head diameter); or 1 1/4" 16 gage staple with 7/16" or 1" crown	3	6
34. 25/32" fiberboard sheathing[b]	1 3/4" galvanized roofing nail (7/16" diameter head); or 1 1/2" 16 gage staple with 7/16" or 1" crown	3	6
Wood structural panels, combination subfloor underlayment to framing			
35. 3/4" and less	8d common (2 1/2" × 0.131"); or 6d deformed (2" × 0.113")	6	12
36. 7/8" — 1"	8d common (2 1/2" × 0.131"); or 8d deformed (2 1/2" × 0.131")	6	12
37. 11/8" — 11/4"	10d common (3" × 0.148"); or 8d deformed (2 1/2" × 0.131")	6	12
Panel siding to framing			
38. 1/2" or less	6d corrosion-resistant siding (1 7/8" × 0.106"); or 6d corrosion-resistant casing (2" × 0.099")	6	12
39. 5/8"	8d corrosion-resistant siding (2 3/8" × 0.128"); or 8d corrosion-resistant casing (2 1/2" × 0.113")	6	12
Interior paneling			
40. 1/4"	4d casing (1 1/2" × 0.080"); or 4d finish (1 1/2" × 0.072")	6	12
41. 3/8"	6d casing (2" × 0.099"); or 6d finish (Panel supports at 24 inches)	6	12

Footnotes:

a. Nails spaced at 6 inches at intermediate supports where spans are 48 inches or more. For nailing of wood structural panel and particleboard diaphragms and shear walls, refer to Section 2305. Nails for wall sheathing are permitted to be common, box or casing.

b. Spacing shall be 6 inches on center on the edges and 12 inches on center at intermediate supports for nonstructural applications. Panel supports at 16 inches (20 inches if strength axis in the long direction of the panel, unless otherwise marked).

c. Where a rafter is fastened to an adjacent parallel ceiling joist in accordance with this schedule and the ceiling joist is fastened to the top plate in accordance with this schedule, the number of toenails in the rafter shall be permitted to be reduced by one nail.

d. RSRS-01 is a Roof Sheathing Ring Shank nail meeting the specifications in ASTM F1667.

PROJECT SPECIFIC STATE AGENCY APPROVAL

PROJECT NAME:
SACRAMENTO CITY USD
McCLATHY HIGH SCHOOL
(1) 8'-6" X 21'-6" RESTRM /
CUSTODIAL. BLDG
(1) 8'-6" X 32'-0" RESTRM BLDG

SHEET TITLE:
STRUCTURAL SPECIFICATIONS

REVISIONS
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION
FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-122203 INC:
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

JOHN W STARLING
2475

SILVER CREEK INDUSTRIES
8'-6" PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
S-0.1

LIONAKIS
2025 Nineteenth Street
Sacramento CA 95818
P 916.558.1900
www.lionakis.com

CONSULTANT

SEAL
BRIAN BELL
C28712
REN 01-31-25

PROJECT
MCCLATCHY HIGH SCHOOL
ATHLETIC FIELD RENOVATION

3066 FREEPORT BLVD,
SACRAMENTO, CA 95818

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

425 1ST AVE, SACRAMENTO, CA 95818.

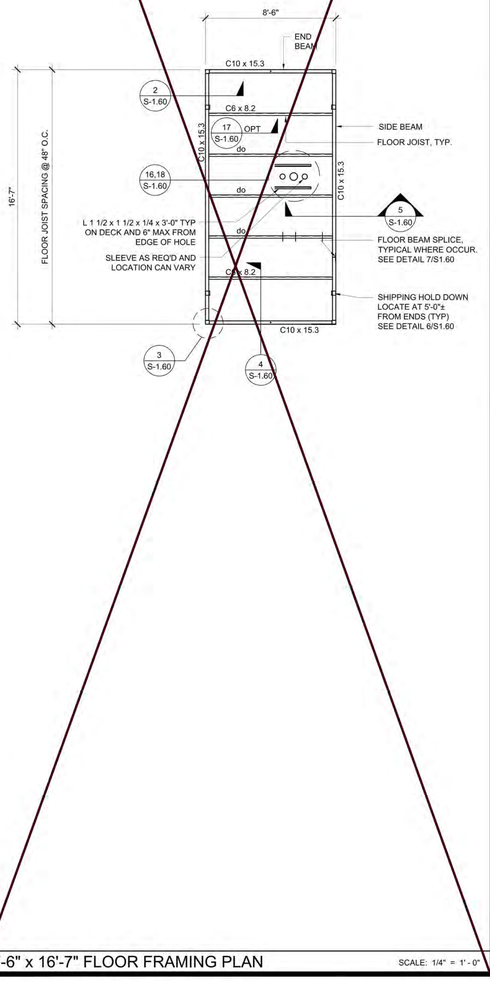
ISSUED

MARK	DATE	DESCRIPTION
	12/7/2023	BID SET - NOT DSA APPROVED

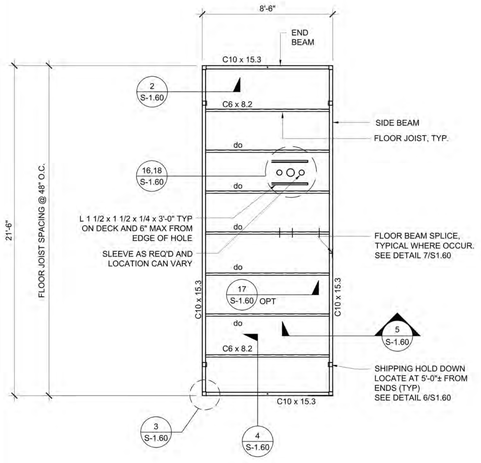
MANAGEMENT
LIONAKIS PROJECT NO: 023040
DSA APPLICATION NO: 02-121610
CLIENT PROJECT NO:
COPYRIGHT: LIONAKIS 2017

TITLE
STRUCTURAL SPECIFICATIONS

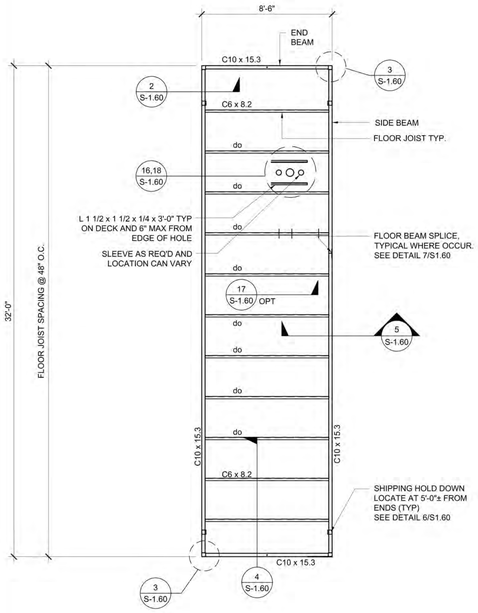
SHEET
S-0.1



8'-6" x 16'-7" FLOOR FRAMING PLAN SCALE: 1/4" = 1'-0"



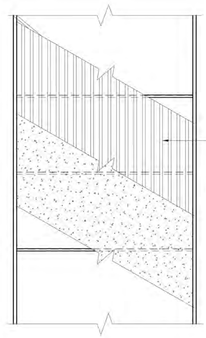
8'-6" x 21'-6" FLOOR FRAMING PLAN SCALE: 1/4" = 1'-0"



8'-6" x 32'-0" FLOOR FRAMING PLAN SCALE: 1/4" = 1'-0"

FLOOR JOIST TABLE

LIVE LOAD PSF	JOIST SPACING	
	CLASSROOM ☑	OFFICE ☐
50	32"	32" DBL JOIST



1 TYPICAL CONCRETE FLOOR DET.

PROJECT SPECIFIC STATE AGENCY APPROVAL

PROJECT NAME:

SACRAMENTO CITY USD
McCLATHY HIGH SCHOOL
(1) 8'-6" X 21'-6" RESTRM / CUSTODIAL BLDG
(1) 8'-6" X 32'-0" RESTRM BLDG

SHEET TITLE:

CONCRETE FLOOR FRAMING PLAN

REVISIONS

1	
2	
3	
4	
5	

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-122203 INC.
REVIEWED FOR:
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARK 24775 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
8'-6" PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-27-2023

P.C. SHEET NUMBER

S-1.11

LIONÄKIS

2025 Nineteenth Street
Sacramento CA 95818
P 916.558.1900
www.lionakis.com

CONSULTANT

SEAL

LICENSED ARCHITECT BRIAN BELL C28712 REN 01-31-25 STATE OF CALIFORNIA

PROJECT

MCCLATCHY HIGH SCHOOL
ATHLETIC FIELD RENOVATION

3066 FREEPORT BLVD,
SACRAMENTO, CA 95818

CLIENT

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

425 1ST AVE, SACRAMENTO, CA 95818.

ISSUED

MARK	DATE	DESCRIPTION
	12/7/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

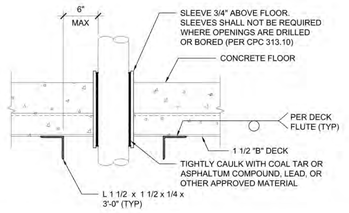
LIONAKIS PROJECT NO:	023040
DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	
COPYRIGHT:	LIONAKIS 2017

TITLE

CONCRETE FLOOR FRAMING PLANS

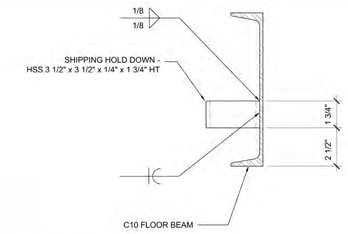
SHEET

S-1.11



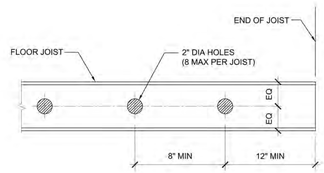
FLOOR PENETRATION SCALE : 3" = 1'-0" | 16

NOT USED | 11



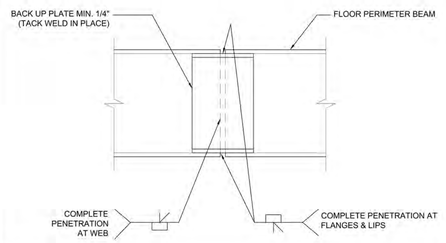
SHIPPING HOLD DOWN DETAIL SCALE : 3"=1'-0" | 6

NOT USED | 1

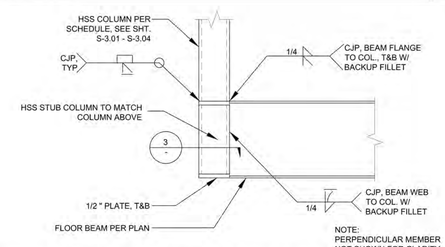


FLOOR JOIST HOLES (OPTIONAL) SCALE : 1/8" = 1'-0" | 17

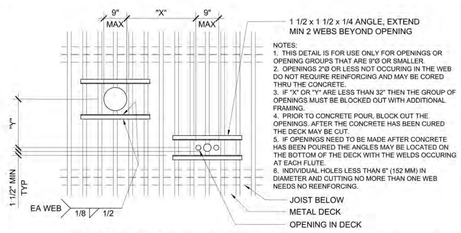
NOT USED | 12



FLOOR BEAM SPLICE SCALE : 3" = 1'-0" | 7

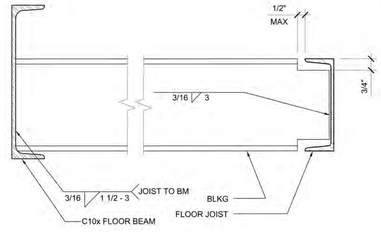


FLOOR BEAM TO COLUMN CONNECTION SCALE : 1 1/2" = 1'-0" | 2

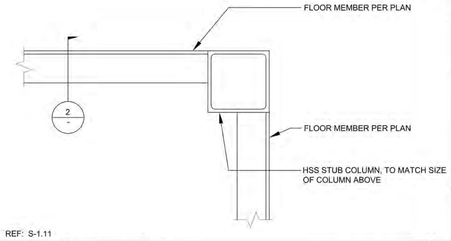


PENETRATIONS IN DECK (OPTION) SCALE : 1/2"=1'-0" | 18

NOT USED | 13



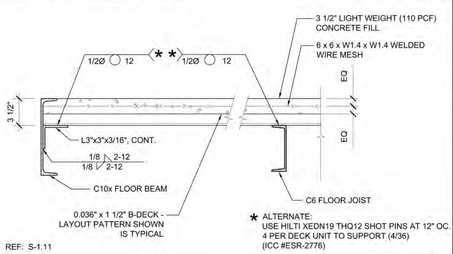
BLOCKING TO JOIST SCALE : 3"=1'-0" | 8



CORNER CONNECTION SCALE : 3" = 1'-0" | 3

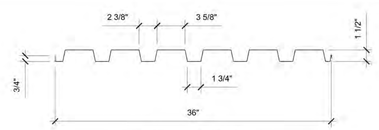
NOT USED | 19

NOT USED | 14



DECK AT END BEAM SCALE : 1 1/2" = 1'-0" | 4

NOT USED | 20

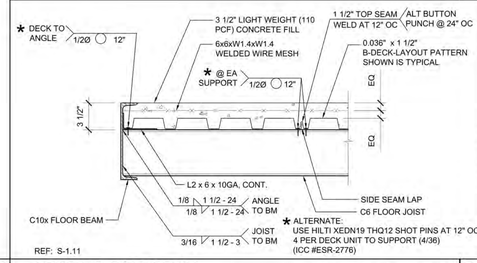


TYPE B-36 (INTERLOCK)

DECK PROPERTIES:
TYPE: B
THICKNESS (IN): 0.036"
I (IN⁴): 0.22
POSITIVE (IN⁴): 0.235
NEGATIVE (IN⁴): 0.246

FLOOR DECK PROPERTY SCALE : 1 1/2" = 1'-0" | 15

NOT USED | 10



JOIST TO SIDE BEAM SCALE : 1 1/2" = 1'-0" | 5

PROJECT SPECIFIC STATE AGENCY APPROVAL

PROJECT NAME:
SACRAMENTO CITY USD
McCLATHY HIGH SCHOOL
(1) 8'-6" X 21'-6" RESTRM / CUSTODIAL. BLDG
(1) 8'-6" X 32'-0" RESTRM BLDG

SHEET TITLE:
CONCRETE FLOOR FRAMING DETAILS

REVISIONS
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-122203 INC.
REVIEWED FOR
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023
PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

SILVER CREEK INDUSTRIES
8'-6" PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
S-1.60

LIONAKIS
2025 Nineteenth Street
Sacramento CA 95818
P 916.558.1900
www.lionakis.com
CONSULTANT

SEAL
LICENSED ARCHITECT BRIAN BELL C28712 REN.01-31-25 STATE OF CALIFORNIA

PROJECT
MCCLATCHY HIGH SCHOOL
ATHLETIC FIELD RENOVATION
3066 FREEPORT BLVD,
SACRAMENTO, CA 95818

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
425 1ST AVE, SACRAMENTO, CA 95818.

ISSUED

MARK	DATE	DESCRIPTION
	12/7/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

LIONAKIS PROJECT NO:	023040
DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	
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TITLE
CONCRETE FLOOR FRAMING DETAILS

SHEET
S-1.60

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12/6/2023 8:05:09 AM

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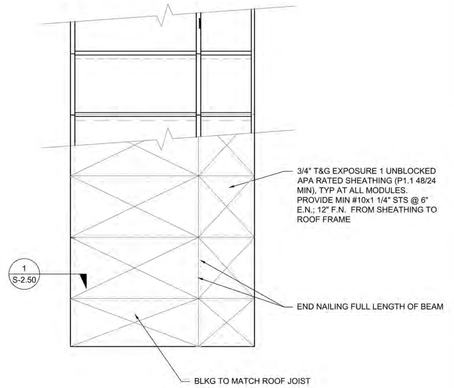
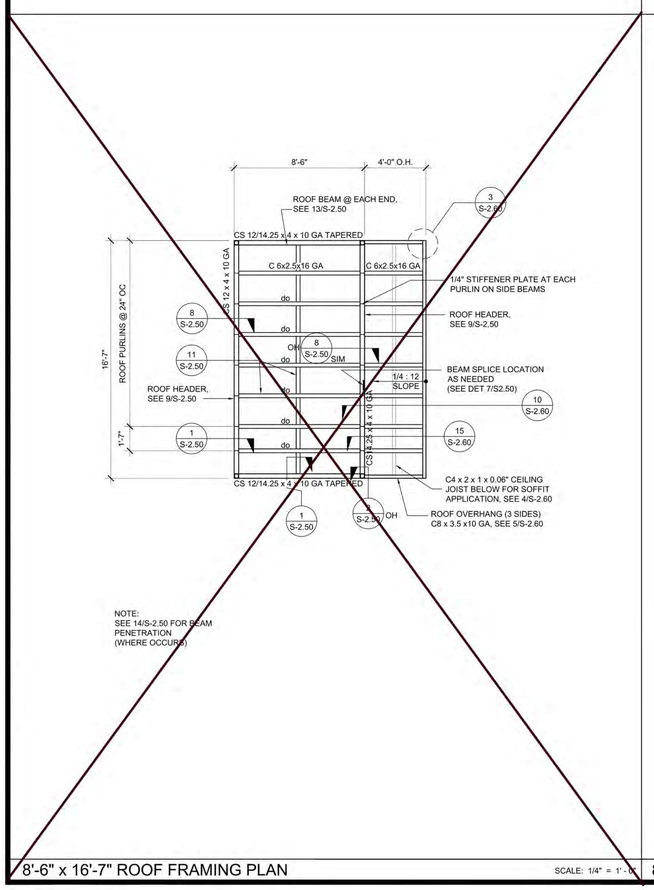
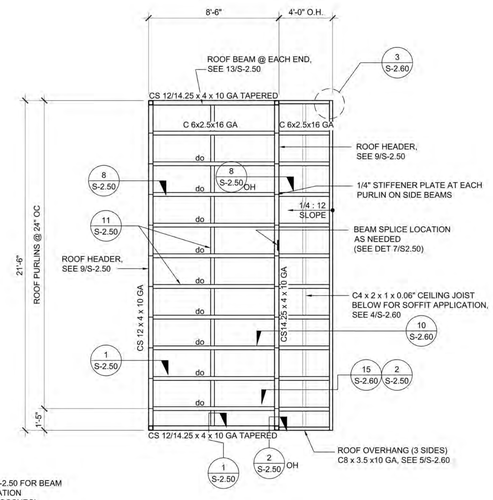
0 1/4" 1/2" 1"



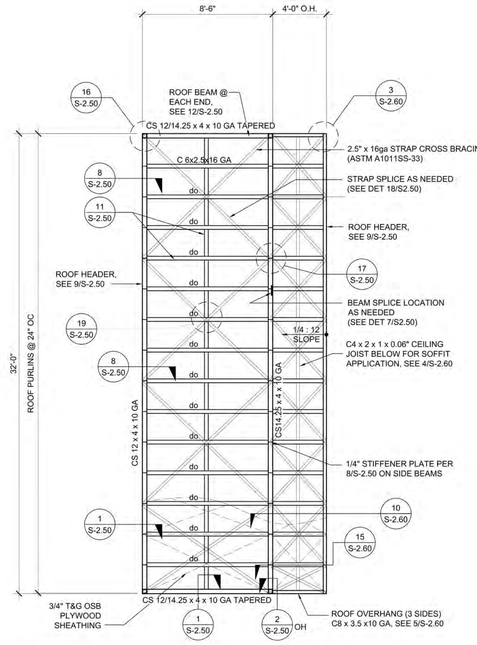
TYP ROOF SHEATHING LAYOUT SCALE: 1/4" = 1' - 0"



8'-6" x 16'-7" ROOF FRAMING PLAN SCALE: 1/4" = 1' - 0"



8'-6" x 21'-6" ROOF FRAMING PLAN SCALE: 1/4" = 1' - 0"



8'-6" x 32'-0" ROOF FRAMING PLAN SCALE: 1/4" = 1' - 0"

PROJECT SPECIFIC STATE AGENCY APPROVAL

PROJECT NAME:

SACRAMENTO CITY USD
McCLATHY HIGH SCHOOL
(1) 8'-6" X 21'-6" RESTRM / CUSTODIAL. BLDG
(1) 8'-6" X 32'-0" RESTRM BLDG

SHEET TITLE:

ROOF FRAMING PLANS

REVISIONS

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PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 2975 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
8'-6" PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-27-2023

P.C. SHEET NUMBER

S-2.01

LIONAKIS

2025 Nineteenth Street
Sacramento CA 95818
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www.lionakis.com

CONSULTANT

SEAL

LICENSED ARCHITECT BRIAN BELL C28712 REN 01-31-25 STATE OF CALIFORNIA

PROJECT
MCCLATCHY HIGH SCHOOL
ATHLETIC FIELD RENOVATION

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CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

425 1ST AVE, SACRAMENTO, CA 95818.

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DSA APPLICATION NO:	02-121610
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TITLE
ROOF FRAMING PLANS

SHEET
S-2.01

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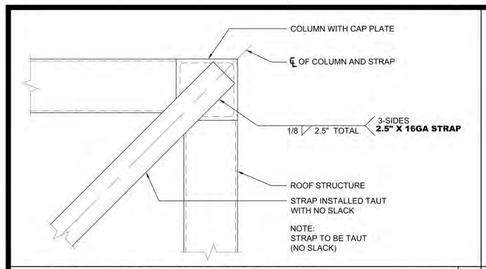
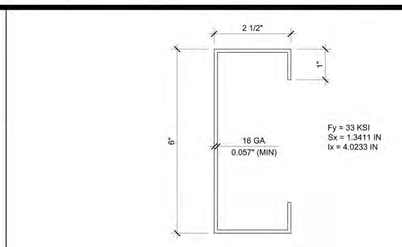
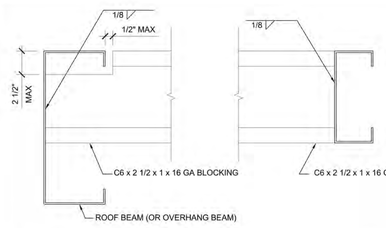
12/8/2023 8:05:14 AM



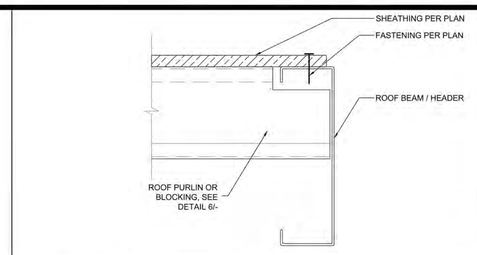
ROOF BRACING STRAP @ END WALL SCALE : 3"=1'-0" 16



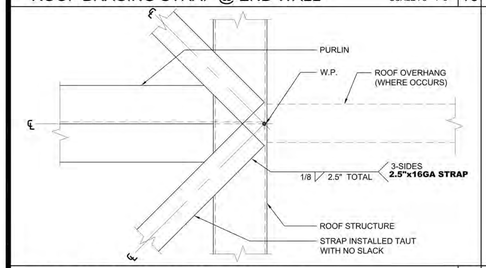
ROOF PURLIN / BLOCKING SCALE : 6"=1'-0" 11



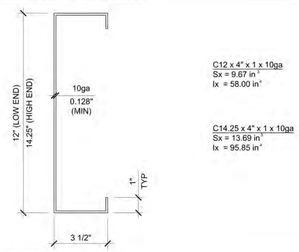
PURLIN CONNECTION DETAIL SCALE : 3" = 1'-0" 6



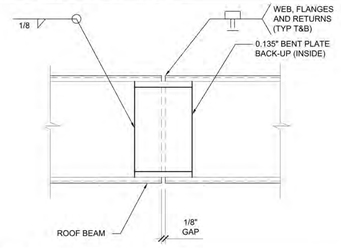
PURLIN/BLKG TO ROOF BEAM SCALE : 3"=1'-0" 1



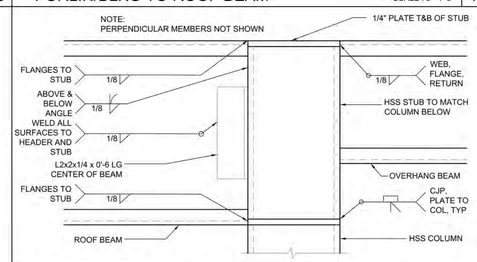
ROOF BRACING STRAP @ SIDE WALL SCALE : 3"=1'-0" 17



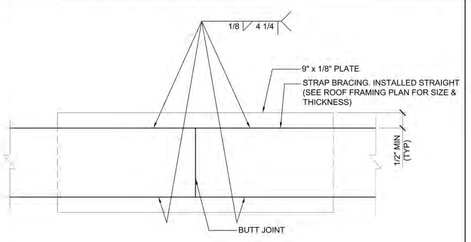
ROOF BEAM SCALE : NTS 12



BEAM SPLICE SCALE: 3" = 1'-0" 7

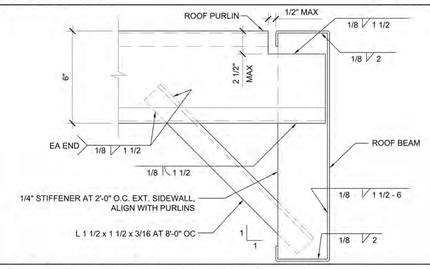


COLUMN AT ROOF - SECTION SCALE : 3" = 1'-0" 2



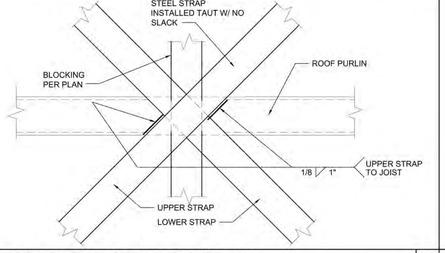
STRAP SPLICE DETAIL SCALE : 6" = 1'-0" 18

13

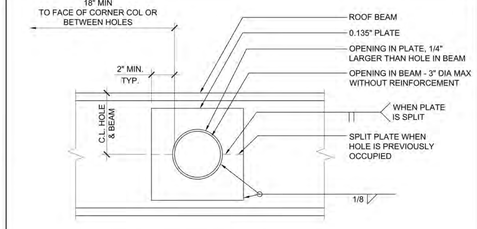


PURLIN TO ROOF BEAM @ STIFFENER SCALE : 3"=1'-0" 8

NOT USED 3



ROOF BRACING STRAP @ SIDE WALL SCALE : 3"=1'-0" 19



SIDEWALL BEAM PENETRATION SCALE : 1 1/2"=1'-0" 14

9

NOT USED 4

NOT USED 20

NOT USED 15

NOT USED 10

NOT USED 5

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(1) 8'-6" X 32'-0" RESTRM BLDG

SHEET TITLE:
ROOF FRAMING DETAILS
MONO SLOPE

REVISIONS
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Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARK STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
8'-6" PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-27-2023

P.C. SHEET NUMBER
S-2.50

LIONÄKIS
2025 Nineteenth Street
Sacramento CA 95818
P 916.558.1900
www.lionakis.com

CONSULTANT

SEAL
LICENSED ARCHITECT BRIAN BELL C28712 REN 01-31-25 STATE OF CALIFORNIA

PROJECT
MCCLATCHY HIGH SCHOOL
ATHLETIC FIELD RENOVATION

3066 FREEPORT BLVD,
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CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

425 1ST AVE, SACRAMENTO, CA 95818.

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LIONAKIS PROJECT NO:	023040
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CLIENT PROJECT NO:	
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TITLE
ROOF FRAMING DETAILS - MONO SLOPE

SHEET
S-2.50

IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY

0 1/4" 1" 2"

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0 1/4" 1/2" 1"

NOT USED 16

NOT USED 17

NOT USED 18

NOT USED 19

NOT USED 20

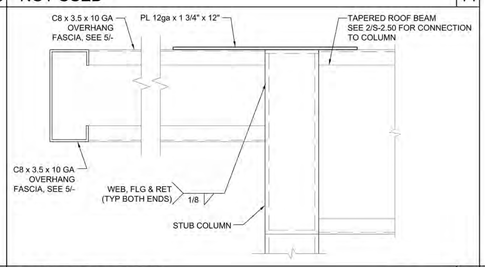
NOT USED 11

NOT USED 12

NOT USED 13

NOT USED 14

ROOF OVERHANG SCALE : 3" = 1'-0" 15



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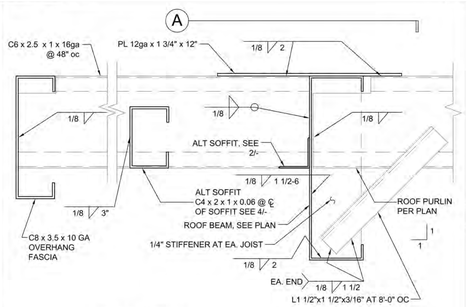

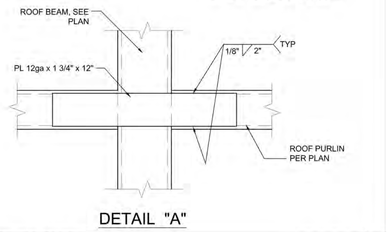

DETAIL "A"

ROOF OVERHANG SCALE : 3" = 1'-0" 10

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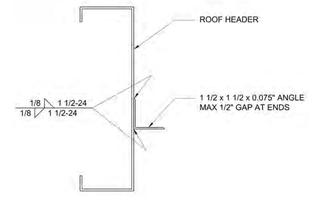
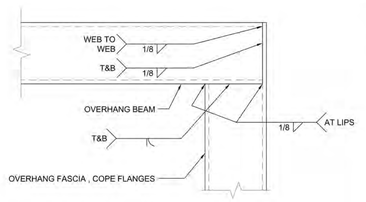
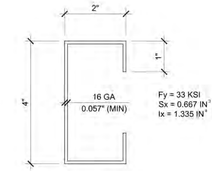


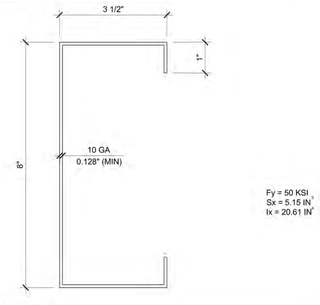
SOFFIT ANGLE TO BEAM CONNECTION SCALE : 3"=1'-0" 2



OVERHANG FASCIA TO BEAM CONNECTION SCALE : 6"=1'-0" 3



SOFFIT JOIST SCALE : 6"=1'-0" 4



OVERHANG BEAM SCALE : 6"=1'-0" 5

PROJECT SPECIFIC STATE AGENCY APPROVAL

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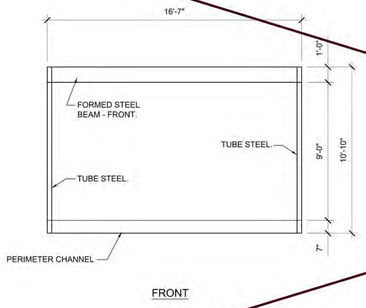
0 1/4" 1/2" 1"

BUILDING SECTION (8'-6"x16'-7")

SCALE: 1/2" = 1'-0" | 1



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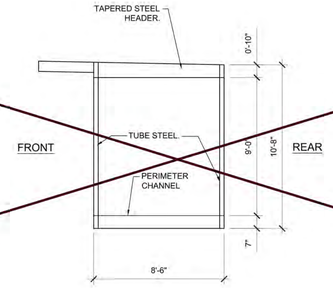

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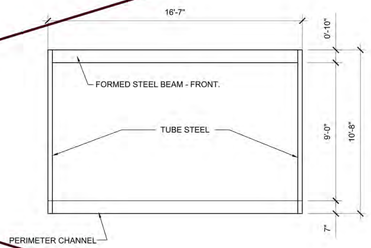
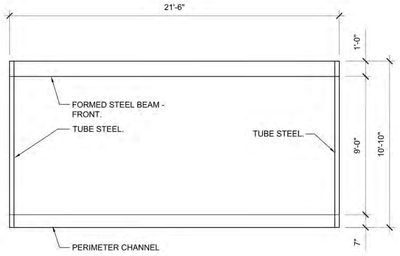


REAR

BUILDING SECTION (8'-6"x21'-6")

SCALE: 1/2" = 1'-0" | 2



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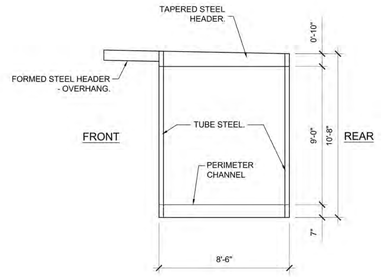

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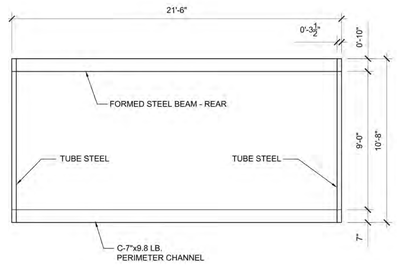
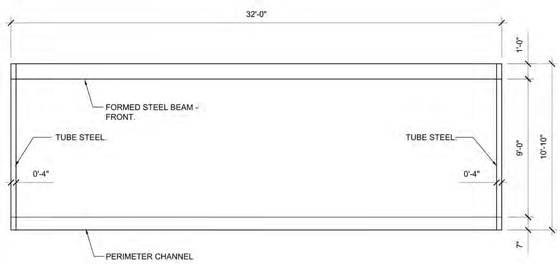


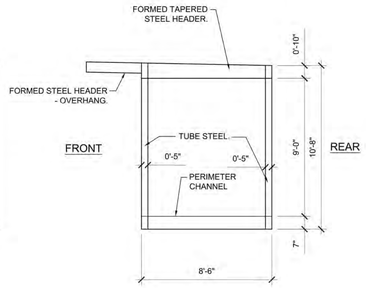
REAR

BUILDING SECTION (8'-6"x32'-0")

SCALE: 1/2" = 1'-0" | 2



FRONT



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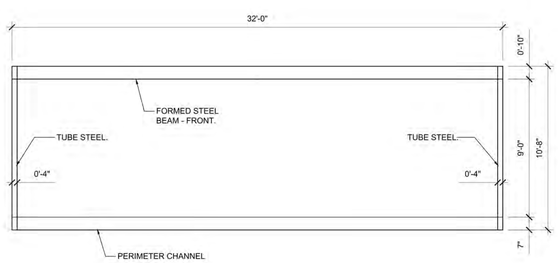

REAR

NOTES

1. ALL INFORMATION SUCH AS DETAILS, SECTIONS, CONNECTIONS, AND MATERIAL ATTACHMENT SHALL BE REFERENCED FROM OTHER SHEETS WITHIN THIS SET WHERE IT APPLIES.

HSS COLUMN SCHEDULE

COL HT	8'-6" x 16'-7" BLDG	8'-6" x 21'-6" BLDG	8'-6" x 32'-0" BLDG
9'-0"	☐ HSS 4 x 4 x 1/4	☑ HSS 4 x 4 x 3/8	☑ HSS 5 x 5 x 5/16

PROJECT SPECIFIC STATE AGENCY APPROVAL

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McCLATHY HIGH SCHOOL
(1) 8'-6" X 21'-6" RESTRM / CUSTODIAL BLDG
(1) 8'-6" X 32'-0" RESTRM BLDG

SHEET TITLE:

BUILDING SECTIONS

REVISIONS

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PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARK 2975 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES	8'-6" PC
PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-27-2023

P.C. SHEET NUMBER

S-3.03

LIONAKIS

2025 Nineteenth Street
Sacramento CA 95818
P 916.558.1900
www.lionakis.com

CONSULTANT

SEAL

LICENSED ARCHITECT BRIAN BELT C28712 REN 01-31-25 STATE OF CALIFORNIA

PROJECT

MCCLATCHY HIGH SCHOOL
ATHLETIC FIELD RENOVATION

3066 FREEPORT BLVD,
SACRAMENTO, CA 95818

CLIENT

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

425 1ST AVE, SACRAMENTO, CA 95818.

ISSUED

MARK	DATE	DESCRIPTION
	12/7/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

LIONAKIS PROJECT NO:	023040
DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	
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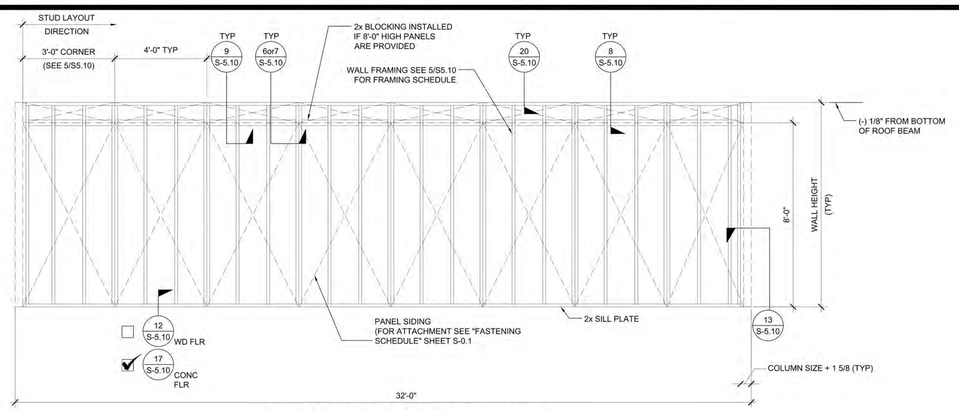
TITLE

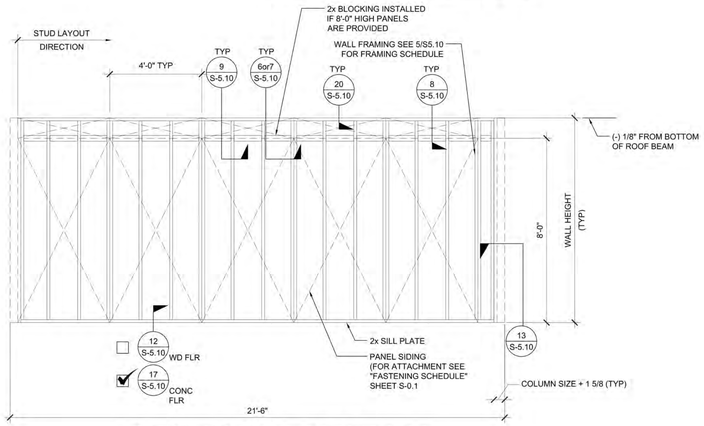
BUILDING SECTIONS

SHEET

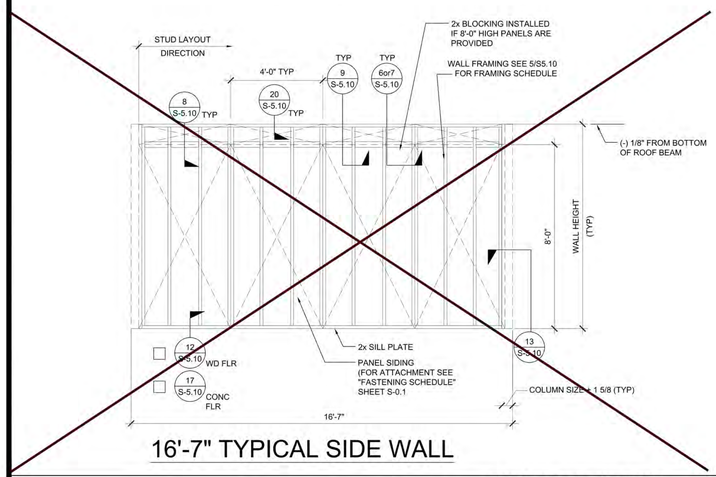
S-3.03



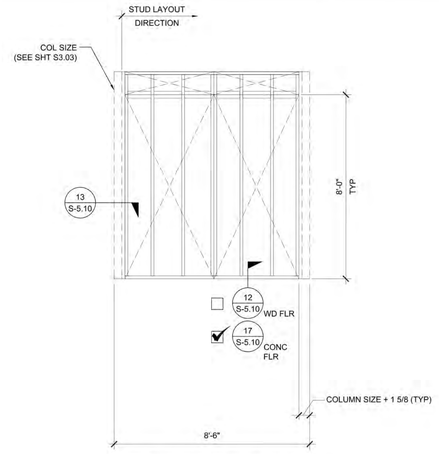
32' TYPICAL SIDE WALL



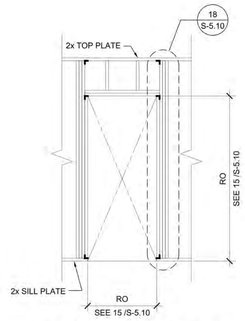
21'-6" TYPICAL SIDE WALL



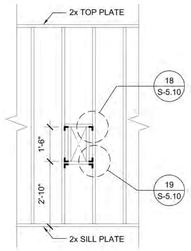
16'-7" TYPICAL SIDE WALL



TYPICAL END WALL



TYPICAL DOOR



FIRE EXTINGUISHER CABINET BLOCKOUT

FRAMING ELEVATIONS

SCALE: 3/8" = 1' - 0" | 1

NOTES

WALL HEIGHT SCHEDULE

COLUMN HEIGHT	9'-0"	
WOOD FLOOR	8'-10 3/4"	
CONC FLOOR	8'-11 7/8"	

PROJECT SPECIFIC STATE AGENCY APPROVAL

PROJECT NAME:

SACRAMENTO CITY USD
McCLATHY HIGH SCHOOL
(1) 8'-6" X 21'-6" RESTRM / CUSTODIAL BLDG
(1) 8'-6" X 32'-0" RESTRM BLDG

SHEET TITLE:

WALL FRAMING ELEVATIONS WOOD STUDS

REVISIONS

1	
2	
3	
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5	

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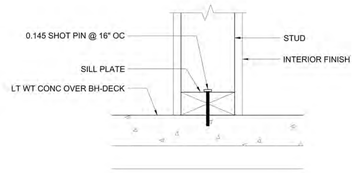
TITLE

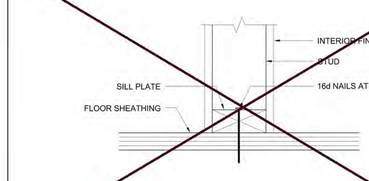
WALL FRAMING ELEVATIONS - WOOD STUDS

SHEET

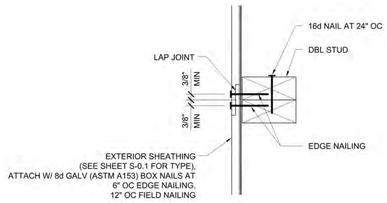
S-5.00



PARTITION CONNECTION AT CONC FLOOR SCALE : 3"=1'-0" | 16

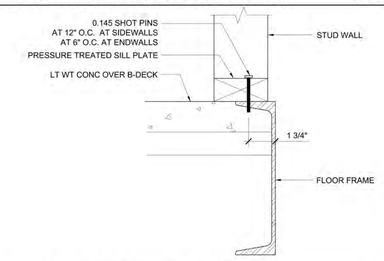


PARTITION CONNECTION AT WOOD FLOOR SCALE : 3"=1'-0" | 11

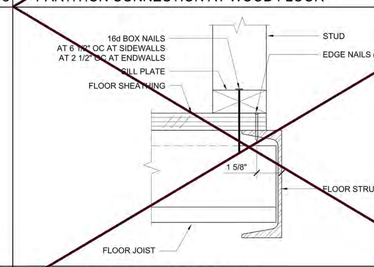


VERTICAL SHEATHING LAP JOINT SCALE : 3"=1'-0" | 6

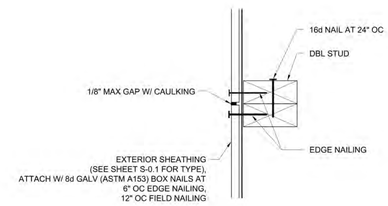
NOT USED | 1



WALL SILL AT CONCRETE FLOOR SCALE : 3"=1'-0" | 17

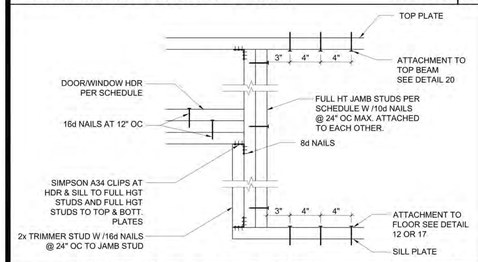


WALL SILL AT WOOD FLOOR SCALE : 3"=1'-0" | 12

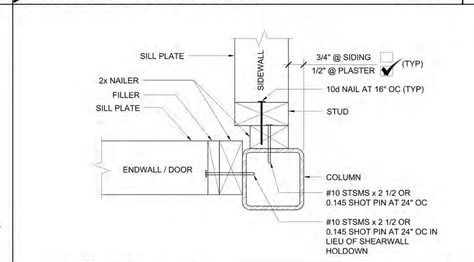


VERTICAL SHEATHING BUTT JOINT SCALE : 3"=1'-0" | 7

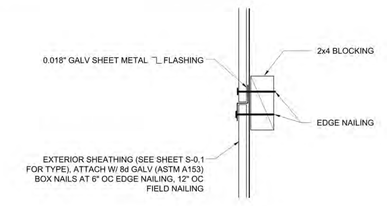
2 | 2



DOOR/WINDOW HEADER AND JAMB SCALE : 1 1/2"=1'-0" | 18



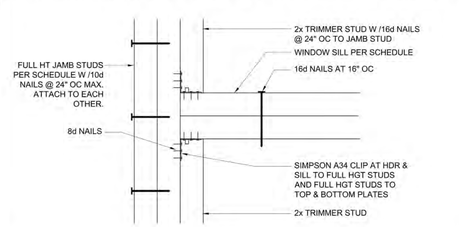
COLUMN AT ENDWALL SCALE : 3"=1'-0" | 13



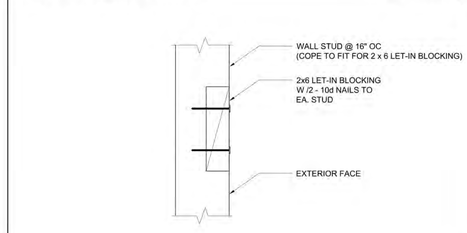
HORIZONTAL SHEATHING JOINT SCALE : 3"=1'-0" | 8

3 | 3

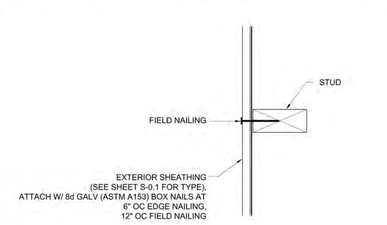
COLUMN HEIGHT	OPENING SIZE	EXT FINISH	HEADER NUMBER **	HEADER SIZE **	HEADER LUMBER	HEADER TYPE	SILL NUMBER **	SILL SIZE **	SILL LUMBER	SILL TYPE	FULL HEIGHT KING STUD NUMBER **	FULL HEIGHT KING STUD SIZE **	FULL HEIGHT KING STUD LUMBER	FULL HEIGHT KING STUD TYPE
9'-0"	3070	NO PLASTER	(1)	2X4	HF	#2		N/A			(1)	2X4	HF	#2
		NO PLASTER (OPT)	(1)	2X4	DF	#2		N/A			(1)	2X4	DF	#2
		W/ PLASTER	(1)	2X4	HF	#2		N/A			(3)	2X4	HF	#2
		W/ PLASTER (OPT)	(1)	2X4	DF	#2		N/A			(2)	2X4	DF	#2



WINDOW SILL AND JAMB SCALE : 3"=1'-0" | 19



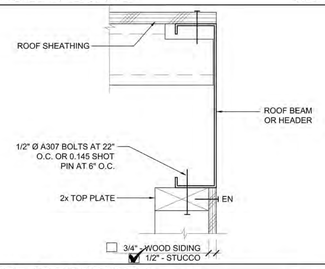
LET-IN BLOCK ATTACHMENT SCALE : 3"=1'-0" | 14



SECTION AT SHEATHING TO STUD ATTACHMENT SCALE : 3"=1'-0" | 9

4 | 4

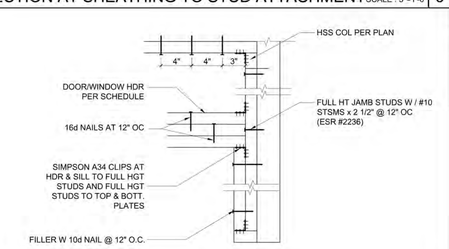
COLUMN HEIGHT	EXT FINISH	WOOD WALL FRAMING NUMBER **	WOOD WALL FRAMING SIZE **	WOOD WALL FRAMING LUMBER	WOOD WALL FRAMING TYPE	WOOD WALL FRAMING OC	3" CORNER OF WOOD WALL FRAMING (ZONE 5) NUMBER **	3" CORNER OF WOOD WALL FRAMING (ZONE 5) SIZE **	3" CORNER OF WOOD WALL FRAMING (ZONE 5) LUMBER	3" CORNER OF WOOD WALL FRAMING (ZONE 5) TYPE	3" CORNER OF WOOD WALL FRAMING (ZONE 5) OC
9'-0"	NO PLASTER	(1)	2X4	HF	#2	16" OC	(1)	2X4	HF	#2	16" OC
	NO PLASTER (OPT)	(1)	2X4	DF	#2	16" OC	(1)	2X4	DF	#2	16" OC
	W/ PLASTER	(1)	2X4	HF	#2	12" OC	(1)	2X4	HF	#2	10" OC
	W/ PLASTER (OPT)	(1)	2X4	DF	#2	16" OC	(1)	2X4	DF	#2	12" OC



TOP PLATE AT ROOF BEAM SCALE : 3" = 1'-0" | 20

DOOR	WINDOW	STANDARD		WELDED FRAME	
3070		38"	85"	40 1/4"	86 1/4"

ROUGH OPENING SCHEDULE | 15



DOOR/WINDOW HEADER @ COLUMN SCALE : 1 1/2"=1'-0" | 10

WALL FRAMING SCHEDULE | 5

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McCLATHY HIGH SCHOOL
(1) 8'-6" X 21'-6" RESTRM / CUSTODIAL BLDG
(1) 8'-6" X 32'-0" RESTRM BLDG

SHEET TITLE:
WALL FRAMING DETAILS
WOOD STUDS

REVISIONS
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WALL FRAMING DETAILS - WOOD STUDS

SHEET
S-5.10

IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY

0 1/4" 1/2" 1"

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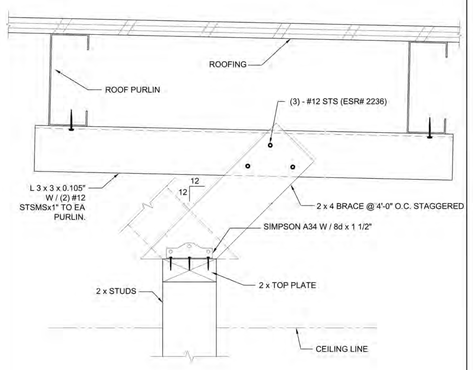
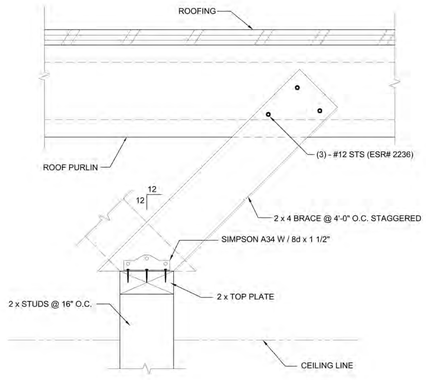
12/6/2023 8:05:43 AM



ALT - INTERIOR PARTITION SCALE : 3" = 1'-0" 14



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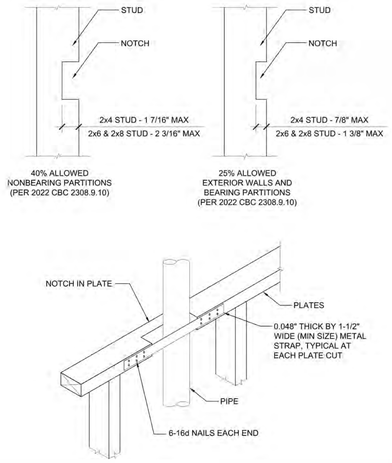
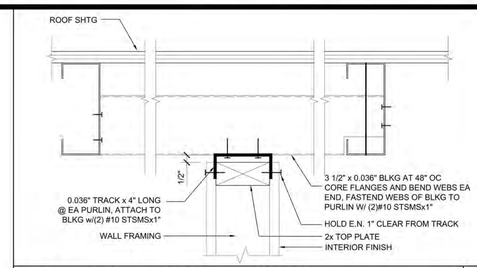
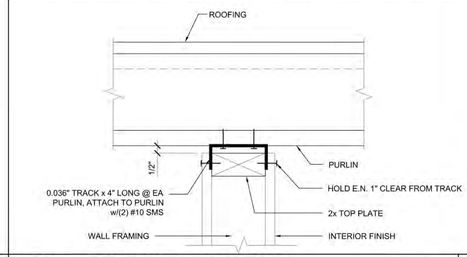


CUTTING AND NOTCHING SCALE : 1 1/2" = 1'-0" 7

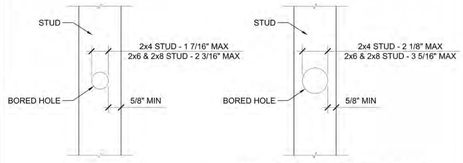


FULL HEIGHT INTERIOR PARTITION SCALE : 3" = 1'-0" 1



FULL HEIGHT INTERIOR PARTITION SCALE : 3" = 1'-0" 2

NOT USED 3



BORED HOLES SCALE : 1 1/2" = 1'-0" 8

NOT USED 9

NOT USED 4

NOT USED 10

NOT USED 5

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DETAILS - WOOD STUDS

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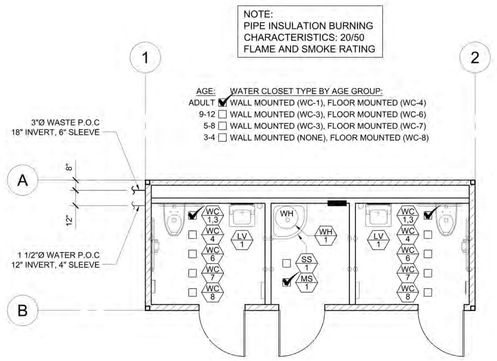
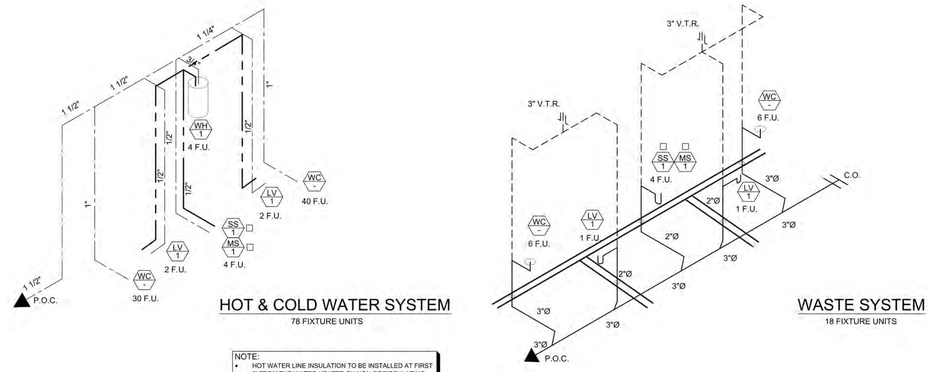


NOTE:
ALL WATER CLOSETS SHALL BE ACCESSIBLE

PLUMBING PLAN (8'-6" x 21'-6")

SCALE: 1/4" = 1'-0"



NOTE:
- HOT WATER LINE INSULATION TO BE INSTALLED AT FIRST 8' FROM THE WATER HEATER ON NON-RECIRCULATING SYSTEMS
- ALL HOT WATER LINES TO BE INSULATED WHEN RE-CIRCULATING SYSTEMS ARE USED. INSULATION FLAME SPREAD INDEX 0-25 & SMOKE DEVELOPMENT 0-450

PLUMBING ISO PLAN (8'-6" X 21'-6")

GENERAL NOTES

1. ALL VENTS TO ROOF AND VENT RISER CONNECTIONS TO BE OFFSET ABOVE CEILING FROM WALLS IN ORDER TO PREVENT PENETRATION THROUGH TOP PLATES.
2. ALL WASTE DROPS IN WALLS TO BE OFFSET PRIOR TO WALL BOTTOM PLATES.
3. FOR ALLOWABLE CUTTING/NOTCHING/BORED HOLES IN 2x WALL STUDS AND JOISTS, SEE TYPICAL DETAILS ON STRUCTURAL SHEETS.
4. NOT USED
5. ALL INTERIOR COLD AND HOT WATER IS OVERHEAD PIPING EXCEPT AT INSIDE WALLS UNLESS OTHERWISE NOTED.
6. ALL DRAIN AND SEWER FITTINGS BELOW FLOOR LINE ARE SITE INSTALLED.
7. SEWER/WATER STUB OUT SHALL BE LOCATED WITHIN THE ALLOWABLE AREA AS SHOWN ON PLANS AND CONNECTIONS SHOULD BE EASILY ACCESSIBLE FOR FUTURE RELOCATION. STUB OUT HEIGHT SHOULD BE COORDINATED WITH BUILDING MANUFACTURER AND SITE CONTRACTOR/OWNER.
8. PLUMBING EQUIPMENT, FIXTURE AND ACCESSORIES: FURNISH AND INSTALL ALL PIPING, VALVES, VENTS, STOPS. AND TRAPS REQUIRED TO CONNECT ALL FIXTURES AS REQUIRED.
9. MATERIALS AND WORKMANSHIP: ALL WORKMEN SHALL BE SKILLED AND QUALIFIED FOR THE WORK WHICH THEY PERFORM. ALL MATERIALS USED, UNLESS OTHERWISE SPECIFIED, SHALL BE NEW AND OF THE TYPES AND GRADE SPECIFIED.

PLUMBING NOTES

1. ACCESSIBLE PLUMBING FIXTURES SHALL SHALL COMPLY WITH ALL OF THE REQUIREMENTS OF THE CBC SECTION 11B-213.2.
2. HEIGHTS AND LOCATION OF ALL FIXTURES SHALL BE ACCORDING TO THE CBC SECTION 11B-213.2.
3. FIXTURE CONTROLS SHALL COMPLY WITH CBC SECTION 11B-213.2.
4. COORDINATE WITH SHEET P-2.01 FOR PLUMBING DETAILS AND SCHEDULES.

NOTE:
FOR EACH RESTROOM WHERE ALTERNATIVE DIMENSIONS ARE USED (ALTERNATE AGE GROUPS) THE APPLICABLE HEIGHTS AND CLEARANCES SHALL BE APPLIED TO ALL ACCESSIBLE ELEMENTS IN THE ROOM.

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PROJECT NAME:
SACRAMENTO CITY USD
McCLATHY HIGH SCHOOL
(1) 8'-6" X 21'-6" RESTRM / CUSTODIAL BLDG
(1) 8'-6" X 32'-0" RESTRM BLDG

SHEET TITLE:
PLUMBING FLOOR PLAN AND ISOMETRICS (8'-6"x21'-6")

REVISIONS
1
2
3
4
5

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-122203 INC.
REVIEWED FOR:
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 24775 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
8'-6" PC

PROJECT NO:
DRAWN BY:
SCALE: AS NOTED
DATE: 02-27-2023

P.C. SHEET NUMBER
P-1.02

LIONAKIS
2025 Nineteenth Street
Sacramento CA 95818
P 916.558.1900
www.lionakis.com
CONSULTANT

SEAL
LICENSED ARCHITECT BRIAN BELT C28712 REN 01-31-25 STATE OF CALIFORNIA

PROJECT
MCCLATCHY HIGH SCHOOL
ATHLETIC FIELD RENOVATION

3066 FREEPORT BLVD,
SACRAMENTO, CA 95818

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

425 1ST AVE, SACRAMENTO, CA 95818.

ISSUED

MARK	DATE	DESCRIPTION
	12/7/2023	BID SET - NOT DSA APPROVED

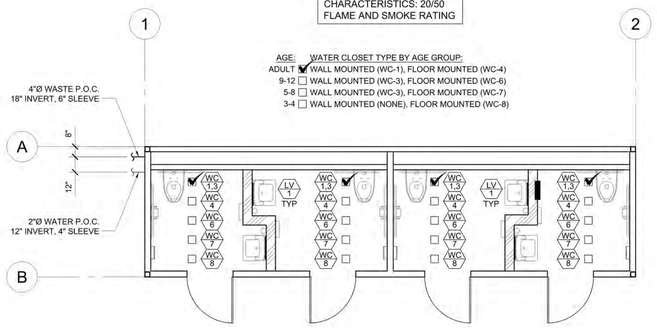
MANAGEMENT

LIONAKIS PROJECT NO:	023040
DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	
COPYRIGHT:	LIONAKIS 2017

TITLE
PLUMBING FLOOR PLAN AND ISOMETRICS (8'-6"X21'-6")

SHEET
P-1.02

NOTE:
PIPE INSULATION BURNING CHARACTERISTICS: 20/50
FLAME AND SMOKE RATING



NOTE:
ALL WATER CLOSETS SHALL BE ACCESSIBLE

PLUMBING PLAN (8'-6" x 32'-0")

SCALE: 1/4" = 1'-0"

GENERAL NOTES

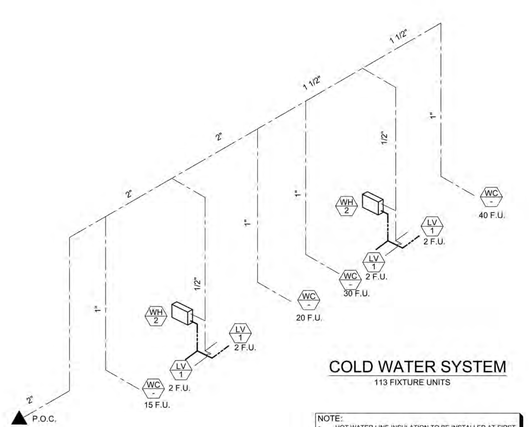
1. ALL VENTS TO ROOF AND VENT RISER CONNECTIONS TO BE OFFSET ABOVE CEILING FROM WALLS IN ORDER TO PREVENT PENETRATION THROUGH TOP PLATES.
2. ALL WASTE DROPS IN WALLS TO BE OFFSET PRIOR TO WALL BOTTOM PLATES.
3. FOR ALLOWABLE CUTTING/NOTCHING/BORED HOLES IN 2x WALL STUDS AND JOISTS, SEE TYPICAL DETAILS ON STRUCTURAL SHEETS.
4. NOT USED
5. ALL INTERIOR COLD AND HOT WATER IS OVERHEAD PIPING EXCEPT AT INSIDE WALLS UNLESS OTHERWISE NOTED.
6. ALL DRAIN AND SEWER FITTINGS BELOW FLOOR LINE ARE SITE INSTALLED.
7. SEWER/WATER STUB OUT SHALL BE LOCATED WITHIN THE ALLOWABLE AREA AS SHOWN ON PLANS AND CONNECTIONS SHOULD BE EASILY ACCESSIBLE FOR FUTURE RELOCATION. STUB OUT HEIGHT SHOULD BE COORDINATED WITH BUILDING MANUFACTURER AND SITE CONTRACTOR/OWNER.
8. PLUMBING EQUIPMENT, FIXTURE AND ACCESSORIES: FURNISH AND INSTALL ALL PIPING, VALVES, VENTS, STOPS. AND TRAPS REQUIRED TO CONNECT ALL FIXTURE AS REQUIRED.
9. MATERIALS AND WORKMANSHIP: ALL WORKMEN SHALL BE SKILLED AND QUALIFIED FOR THE WORK WHICH THEY PERFORM. ALL MATERIALS USED, UNLESS OTHERWISE SPECIFIED, SHALL BE NEW AND OF THE TYPES AND GRADE SPECIFIED.

PLUMBING NOTES

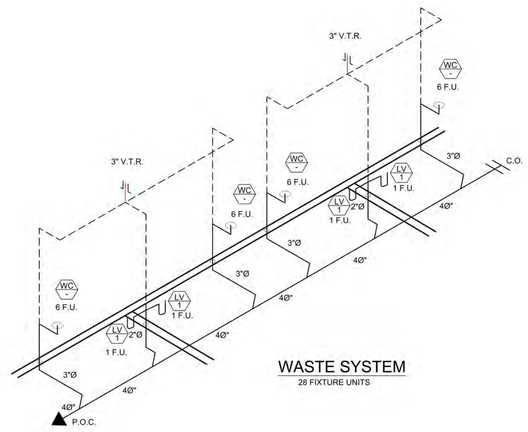
1. ACCESSIBLE PLUMBING FIXTURES SHALL SHALL COMPLY WITH ALL OF THE REQUIREMENTS OF THE CBC SECTION 11B-213.2.
2. HEIGHTS AND LOCATION OF ALL FIXTURES SHALL BE ACCORDING TO THE CBC SECTION 11B-213.2.
3. FIXTURE CONTROLS SHALL COMPLY WITH CBC SECTION 11B-213.2.
4. COORDINATE WITH SHEET P-2.01 FOR PLUMBING DETAILS AND SCHEDULES.

NOTE:
FOR EACH RESTROOM WHERE ALTERNATIVE DIMENSIONS ARE USED, APPLY CONSISTENT USE GROUP STANDARDS THROUGHOUT (IF "E" HEIGHTS ARE USED AT ACCESSIBLE WATER CLOSET, "E" HEIGHTS SHALL ALSO BE USED AT ACCESSIBLE LAVY.

PLUMBING ISO PLAN (8'-6" X 32'-0")



COLD WATER SYSTEM
113 FIXTURE UNITS



WASTE SYSTEM
28 FIXTURE UNITS

NOTE:
- HOT WATER LINE INSULATION TO BE INSTALLED AT FIRST 5' FROM THE WATER HEATER ON NON-RECIRCULATING SYSTEMS
- ALL HOT WATER LINES TO BE INSULATED WHEN RE-CIRCULATING SYSTEMS ARE USED. INSULATION FLAME SPREAD INDEX 0-25 & SMOKE DEVELOPMENT 0-450

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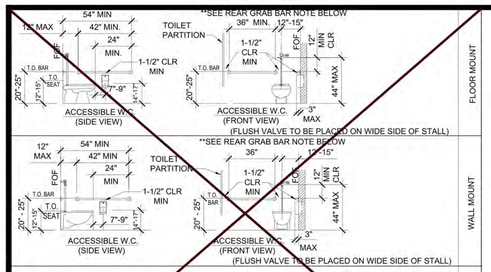
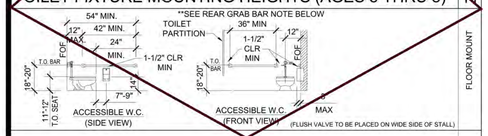
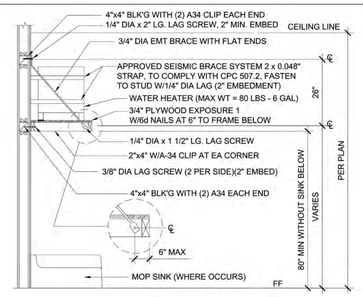
SHEET
P-1.03



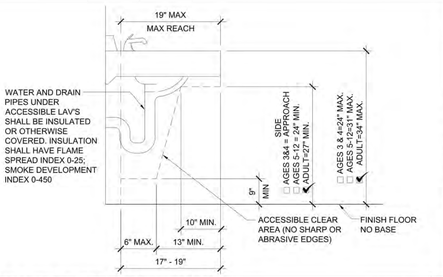
TOILET FIXTURE MOUNTING HEIGHTS (AGES 5 THRU 8) 11



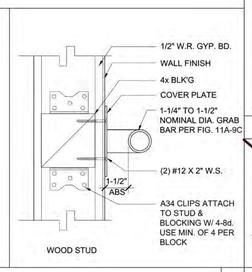
TOILET FIXTURE MOUNTING HEIGHTS (AGES 3 AND 4) 12



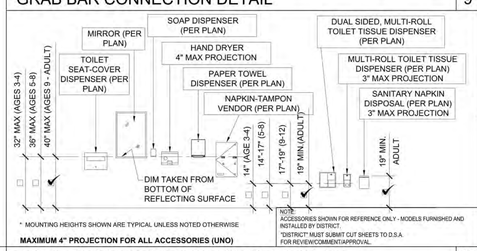
WATER HEATER SHELF AT WOOD STUD SCALE : 1/2" = 1'-0" 14



ACCESSIBLE LAV CLEARANCE SCALE: N.T.S. 6



GRAB BAR CONNECTION DETAIL 9



* MOUNTING HEIGHTS SHOWN ARE TYPICAL UNLESS NOTED OTHERWISE

NOTE:
ACCESSORIES SHOWN FOR REFERENCE ONLY - MODELS FURNISHED AND INSTALLED BY DISTRICT.
"DISTRICT" MUST SUBMIT CUT SHEETS TO D.S.A. FOR REVIEW/COMMENT/APPROVAL.

MAXIMUM 4" PROJECTION FOR ALL ACCESSORIES (UNO)

TOILET ACCESSORIES MOUNTING HEIGHTS 10

THE DIVISION OF THE STATE ARCHITECT, OFFICE OF REGULATION SERVICES ACCEPTS THE FOLLOWING DIMENSIONS AS ADEQUATELY SERVING THE NEEDS OF CHILDREN IN PROJECTS UNDER THEIR JURISDICTION. THESE DIMENSIONS ARE BASED ON CBC TABLE 11B-604.9 SUGGESTED DIMENSIONS FOR SERVING CHILDREN AGES 3 TO 12.

ACCESSIBILITY DIMENSIONS	11B-604.9 SUGGESTED DIMS ADULT	AGES 9 THROUGH 12	AGES 5 THROUGH 8	AGES 3 AND 4
TOILET CENTERING FROM WALL	17" - 18"	15" - 18"	12" - 15"	12"
TOILET SEAT HEIGHT (DIM TO TOP OF SEAT)	17" - 19"	15" - 17"	12" - 15"	11" - 12"
GRAB BAR HEIGHT (TO TOP)	33" - 36"	25" - 27"	20" - 25"	18" - 20"
TOILET PAPER IN FRONT OF TOILET	7" - 9"	7" - 9"	7" - 9"	7" - 9"
NAPKIN DISPOSAL	★★	★★	N/A	N/A
MIRROR HEIGHT (TO BOTTOM OF GLASS)	40" MAX.	40" MAX.	36" MAX.	32" MAX.
DISPENSER HEIGHT	19" MIN.	17" - 19"	14" - 17"	14"
LAVATORY/SINK TOP HEIGHT	34" MAX.	31" MAX.	31" MAX.	24" MAX., SEE APPROACH
LAVATORY/SINK KNEE CLEARANCE	27" MIN.	27" MIN.	27" MIN.	SIDE APPROACH
URINAL LIP HEIGHT	17" MAX.	17" MAX.	15" MAX.	13" MIN.
URINAL FLUSH HANDLE HEIGHT	44" MAX.	44" MAX.	37" MAX ★	32" MAX. ★
DRINKING FOUNTAIN BUBBLER HT. (LOW)	36" MAX.	30" MAX.	30" MAX.	30" MAX.
DRINKING FOUNTAIN KNEE CLEARANCE	27" MIN.	SIDE APPROACH	SIDE APPROACH	SIDE APPROACH
HANDRAIL HEIGHT (TO TOP)	34" - 38"	34" - 38"	34" - 38"	34" - 38"

STANDARD DIMENSIONS	ALTERNATE HEIGHT (DIMS) ADULT	AGES 9 THROUGH 12	AGES 5 THROUGH 8	AGES 3 AND 4
TOILET CENTERING FROM WALL/PARTITION	15" MIN	15" MIN	15" MIN	15" MIN
TOILET SEAT HEIGHT/DIM TO TOP OF SEAT	15"	12"	12"	11"
TOILET CLEARANCE/FRONT	24"	24"	24"	24"
URINAL LIP HEIGHT	24"	24"	18"	16"
URINAL CENTER FROM WALL/PARTITION	12"	12"	12"	12"

PLUMBING ACCESSORIES (REF. ONLY-MODELS FURNISHED AND INSTALLED BY DISTRICT U.N.O.)

A SOAP DISPENSER: LIQUID SOAP DISPENSER 4" MAX. PROJECTION

B PAPER TOWEL DISPENSER/TRASH BIN COMBO: SURFACE MOUNTED 4" MAX. PROJECTION-CANNOT ENCROACH INTO 30x48 CLEAR SPACE OF FIXTURE

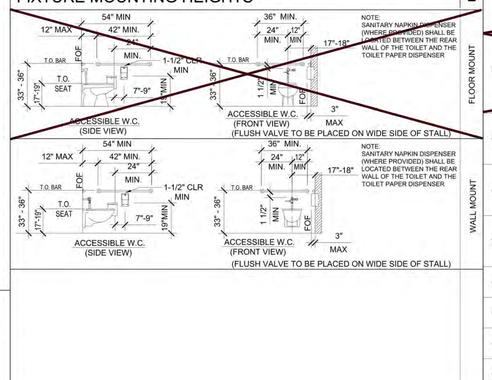
C TOILET PAPER HOLDER: SINGLE ROLL SEMI-RECESSED OR 3" MAX PROJECTION

D TOILET SEAT DISPENSER: SURFACE MOUNTED

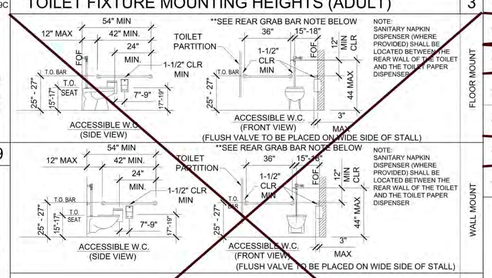
★ 44" MAX. PER CODE

★★ MOUNTED BETWEEN BACK WALL AND TOILET PAPER DISP.

FIXTURE MOUNTING HEIGHTS 2



TOILET FIXTURE MOUNTING HEIGHTS (ADULT) 3



TOILET FIXTURE MOUNTING HEIGHTS (AGES 9 TO 12) 4

PLUMBING FIXTURE SCHEDULE

SYMBOL	FIXTURE	COLD WATER	HOT WATER	WASTE	VENT	FIXTURE DESCRIPTION (AS CALLED OUT OR APPROVED EQUAL)
WC 1	[ADULT] WATER CLOSET WALL MTD/FLUSH (ACCESSIBLE)	1"	-	3"	2"	STD: PROFLO STANDARD PF1731 WALL (1.28 GPF) ALT: AMERICAN STD 2856.128 VITREOUS CHINA ELONGATED RIM, FLUSH VALVE TYPE, SIPHON JET; OLSONITE 10SSCTFR SOLID OPEN WHITE ELONGATED PLASTIC SEAT; SLOAN ROYAL #111-1.28 LOW CONSUMPTION FLUSHOMETER VALVE; JAY R SMITH #210-LY OR RY NO-HUB ADJUSTABLE FIXTURE SUPPORT CARRIER
WC 2	NOT USED					
WC 3	[AGE 5 TO 12] WATER CLOSET WALL MTD/FLUSH (ACCESSIBLE)	1"	-	3"	2"	STD: PROFLO STANDARD PF1731 WALL (1.28 GPF) ALT: AMERICAN STD 2856.128 VITREOUS CHINA ELONGATED RIM, FLUSH VALVE TYPE, SIPHON JET; OLSONITE 10SSCTFR SOLID OPEN WHITE ELONGATED PLASTIC SEAT; SLOAN ROYAL #111-1.28 LOW CONSUMPTION FLUSHOMETER VALVE; JAY R SMITH #210-LY OR RY NO-HUB ADJUSTABLE FIXTURE SUPPORT CARRIER
WC 4	[ADULT] WATER CLOSET FLOOR MTD/FLUSH (ACCESSIBLE)	1"	-	3"	2"	STD: PROFLO PF1723 (1.28 GPF) ALT: AMERICAN STD 3462.001 "MADERA" 16 3/4" HIGH VITREOUS CHINA ELONGATED RIM, SIPHON JET, 10" ROUGH-IN; OLSONITE 10SSCTFR SOLID OPEN WHITE ELONGATED PLASTIC SEAT; SLOAN ROYAL #111-1.28 LOW CONSUMPTION FLUSHOMETER VALVE
WC 5	NOT USED					
WC 6	[AGE 9-12] WATER CLOSET FLOOR MTD/FLUSH (ACCESSIBLE)	1"	-	3"	2"	STD: PROFLO STANDARD PF1721 (1.28 GPF) ALT: AMERICAN STANDARD 2234.001 MADERA 15" HIGH VITREOUS CHINA ELONGATED RIM, SIPHON JET, 12" ROUGH-IN; OLSONITE 10SSCTFR SOLID OPEN WHITE ELONGATED PLASTIC SEAT; SLOAN ROYAL #111-1.28 LOW CONSUMPTION FLUSHOMETER VALVE
WC 7	[AGE 3-4] WATER CLOSET FLOOR MTD/FLUSH (ACCESSIBLE)	1"	-	3"	2"	AMERICAN STANDARD 2599.001 MADERA YOUTH (1.28 GPF) 14" HIGH VITREOUS CHINA ELONG. RIM, SIPHON JET, 10" ROUGH-IN; OLSONITE 10SSCTFR ELONGATED WHITE PLASTIC SEAT; SLOAN ROYAL #111-1.28 LOW CONSUMPTION FLUSHOMETER VALVE
WC 8	[AGE 3-4] WATER CLOSET FLOOR MTD/FLUSH (ACCESSIBLE)	1"	-	3"	2"	STD: PROFLO PF1700BB (1.28 GPF) ALT: AMERICAN STANDARD BABY DEVORO 2284.001 VITREOUS CHINA ELONGATED RIM, 10" ROUGH-IN LOW CONSUMPTION CLOSET BOWL; OLSONITE 126CC SOLID OPEN WHITE ELONGATED PLASTIC SEAT; SLOAN ROYAL #111-1.28 LOW CONSUMPTION FLUSH VALVE
LAV 1	LAVATORY (ACCESSIBLE)	1/2"	-	2"	1 1/2"	STD: AMERICAN STANDARD 0355.012 LUCERNE ALT: CRANE 1-412V "HARWICH" 20X18" VITREOUS CHINA; JAY R SMITH #722 CONCEALED HANGER; OLYMPIA #6161 SINGLE HANDLE FAUCET (0.5 GPM)
UR 1	NOT USED					
UR 2	NOT USED					
FD 1	FLOOR DRAIN	-	-	2"	1 1/2"	JAY R SMITH #2005YA-02-P050-NB. FLOOR DRAIN TAPPED FOR PRIMER. 5" NICKEL BRONZE STRAINER W/ 1/4" MAX. GRATE OPENINGS
TP 1	TRAP PRIMER	1/2"	-	-	-	PR-500 WITH 8"x12" LOCKABLE BOX, 1/2" BALL SHUT-OFF VALVE, AND PPP DU-U FRESH WATER DISTRIBUTION SYSTEM
WHA 1	WATER HAMMER ARRESTOR	1"	-	-	-	PPP SC-1000
GB 1	GRAB BAR	-	-	-	-	BOBRICK B-6806-1-1/2 OC STAINLESS STEEL GRAB BAR - SATIN FINISH; 36" LONG ON BACK AND 42" ON SIDE
MR 1	MIRROR	-	-	-	-	SERIES 530 RETURNED MIRRORS STAINLESS STEEL - 18GA 18"x24" - "J" SHEET METAL MANUFACTURED OR APPROVED EQUAL
PAR 1	TOILET PARTITION	-	-	-	-	METAL POWDER COATED
SS 1	SERVICE SINK	1/2"	1/2"	3"	1 1/2"	KOHLER K-6714 "BANNON 22" X 18" CAST IRON, ACID RESISTANT SINK; K-8905-RP "KNOXFORD" FAUCET; K-6672 2" I.P.S. TRAP
MS 1	MOP SINK	1/2"	1/2"	2"	1 1/2"	AMERICAN STANDARD #7741.000 28"x28" CAST IRON W/ CHIGAGO FAUCET 956-R, 853 WALL HOOK, AND 2" K-9142 STRAINER
CS 1	NOT USED					
WH 1	INSTANT WATER HEATER	1/2"	1/2"	-	-	EEMAX ESP3012, 120V, 3.0 KW, 25A
DF 1	NOT USED					

★★ NOTE:
WHERE FLUSH VALVES OR TOILET TANKS CONFLICT WITH THE REAR GRAB BAR, THE 36" REAR GRAB BAR SHALL BE SHIFTED TO THE OPEN SIDE OF THE TOILET AREA WITH 1 1/2" MIN. CLEARANCE FROM FIXTURE OR CONTROL VALVE AND MOUNTED THE SAME DIMENSION AS THE SIDE GRAB BAR.

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PLUMBING DETAILS AND SCHEDULE

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PLUMBING DETAILS & SCHEDULE

SHEET
P-2.01

IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY

0 1/4" 1/2" 1"

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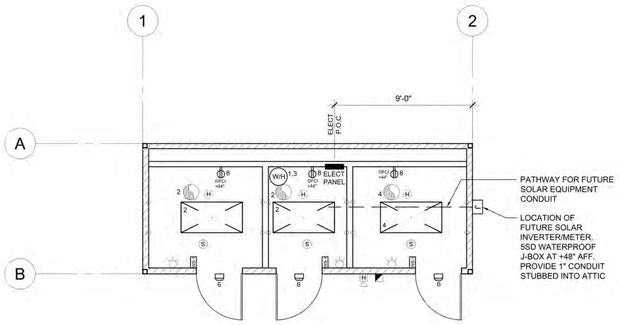


NOTES

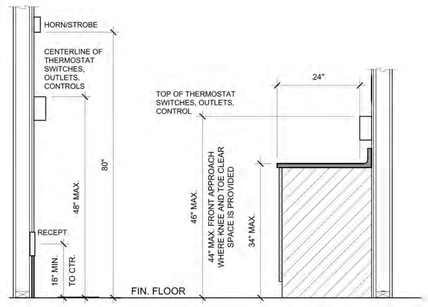
1. FOR COMPLETE ELECTRICAL AND FIRE ALARM SYSTEM, SEE ARCHITECT PLANS.
2. SUSPENDED CEILING SYSTEM NOT SHOWN FOR CLARITY ONLY AND NOT INTENDED FOR SPECIFIC PROJECT USE.

ELECTRICAL PLAN (8'-6" X 21'-6")

SCALE:1/4" = 1'-0"

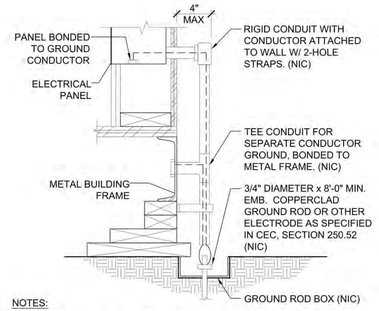
ELECTRICAL PANEL

VOLTS: 120/208 VOLT						PANEL: "A"							FEED: BOTTOM		
MAIN: 100 AMP						LOCATION: INTERIOR ACCESS							MOUNTING: FLUSH		
LOAD	QTY	WATTS Aø	WATTS Bø	BREAKER Amps	BREAKER P	Circuit	A	B	Circuit	BREAKER Amps	BREAKER P	WATTS Aø	WATTS Bø	QTY	LOAD
WATER HEATER		1500		20	1	1	●		2	20	1	366			LIGHTS/FAN
						3		●	4	20	1		183		LIGHTS/FAN
DED - SOLAR READY						5	●		6	20	1	90			EXTERIOR LIGHTS
DED - SOLAR READY						7		●	8	20	1		540		RECEPT.
						9	●		10						
						11		●	12						
A = 1,956 WATTS / PHASE		1500										456	723		B = 723 WATTS / PHASE
TOTAL = 2,679 WATTS		12.8 AMPS				120/208 VOLTS						1 Ø		3	WIRE



UNOBSTRUCTED OVER OBSTRUCTION

TYPICAL MOUNTING HEIGHTS



NOTES:

1. SIZE OF CONDUCTORS SHALL COMPLY WITH CEC TABLE 250.66
2. ELEC. TRADE SHALL CHECK AREA FOR EXISTING CONDUITS, SEWER, GAS & WATER PIPING BEFORE DRIVING GROUND RODS.
3. BOND SEPARATE CONDUCTORS FROM GROUND ROD TO ELEC'L. PANEL & TO METAL BUILDING FRAME (CEC 250.52) IN ADDITION TO THE DETAIL SHOWN ABOVE. BOND THE ELECTRICAL GROUND TO METAL UNDERGROUND WATER PIPE IN DIRECT CONTACT WITH THE EARTH FOR 10 FT. OR MORE, IF AVAILABLE (CEC 250.52)
4. ALL MODULES OF METAL FRAME BLDGS. SHALL BE ELECTRICALLY BONDED TOGETHER (BOLTING ONLY IS NOT ACCEPTABLE BONDING). BONDING SHALL INCLUDE METAL RAMP.
5. CHECK RESISTANT TO GROUND ROD, IF RESISTANCE EXCEEDS 25 OHMS, INSTALL ADDITIONAL GROUND RODS WITH CONDUCTORS AS SHOWN SEPARATED AT LEAST 6'-0" UNTIL RESISTANCE IS REDUCED TO 25 OHMS OR LESS (CEC 250.56).

GROUNDING DETAIL (BY OWNER)

GENERAL GROUNDING NOTES

EACH BUILDING SHALL BE SEPARATELY GROUNDED WITH A 3/4" RD. X 8' COPPERCLAD STEEL GROUND ROD, WHERE ROCK BOTTOM IS ENCOUNTERED, ROD SHALL BE DRIVEN AT AN ANGLE NOT TO EXCEED 45 DEGREE'S FROM THE VERTICAL OR SHALL BE BURIED IN A TRENCH THAT IS AT LEAST 30" DEEP (BY SITE ELECTRICAL).

TESTING: TEST FOR RESISTANCE TO GROUND, IF RESISTANCE EXCEEDS 25 OHMS. INSTALL ADDITIONAL GROUND RODS SEPARATED AT LEAST 6'-0" UNTIL RESISTANCE IS REDUCES TO 25 OHMS OR LESS. (BY SITE ELECTRICAL).

APPROVAL OF THIS PLAN DOES NOT CONSTITUTE APPROVAL OF THIS FIRE ALARM FOR ALL SITES. THE FIRE ALARM SYSTEM AND/OR COMPONENTS MAYBE REQUIRED TO BE CHANGED DUE TO SITE LOCATION EXISTING CONDITIONS OR INCOMPATIBLE COMPONENTS.

GROUND MG TEST SHALL BE DONE IN THE PRESENCE OF THE PROJECT INSPECTOR. ALL GROUNDING SHALL BE IN ACCORDANCE WITH CEC ARTICLE 250.

FIRE ALARM NOTES

1. SMOKE AND HEAT DETECTOR CONDUIT AND DEVICES PROVIDED AND INTERCONNECTED BY OTHERS TO FIRE ALARM SYSTEM
2. PROVIDE DEDICATED FIRE ALARM 120 VOLT CIRCUIT CONNECTED TO LOCKED-ON BREAKER. THE CIRCUIT BREAKER SHALL BE LOCKED-ON WITH APPROVED LOCKING DEVICE, MARKED RED AND IDENTIFIED AS "FIRE ALARM CONTROL CIRCUIT". NFPA 72, 10.6.5.2.

LEGEND

- 1x4 (OR 1x4) CEILING RECESSED LIGHT, LED LIGHT FIXTURE WITH DIMMING WATTAGE: 35 WATTS MAX.
- 4SD J-BOX FOR FIRE ALARM STROBE (DEVICE BY OTHERS). MOUNT AT +80" AFF TO BOTTOM OF DEVICE WITH 3/4" CONDUIT TO EXTERIOR FIRE ALARM HORN WITH PULLSTRING
- SWITCH AT +46" A.F.F. (OPTIONAL APPLICATION)
- WS1 — OCCUPANCY MOTION SENSOR DEVICE, OCS15-ID @ +46" (STANDARD APPLICATION)
- EXTERIOR LED LIGHT FIXTURE. 30w MAX WITH PHOTOCELL MOUNT AT +93" AFF
- H — FIRE ALARM HORN OR SPEAKER (WATERPROOF) J-BOX ONLY W/ 3/4"Ø CONDUIT, +90" A.F.F.
- FIRE ALARM PULL STATION (J-BOX ONLY) MOUNT AT +48" AFF TO TOP OF BOX
- S — SMOKE DETECTOR J-BOX ONLY W/ 3/4"Ø CONDUIT @ CEILING
- (H) — HEAT DETECTOR J-BOX ONLY W/ 3/4"Ø CONDUIT IN ATTIC SPACE
- 110V RECEPTACLE 20 AMP SPECIFICATION GRADE @ +15" A.F.F. TO BOTTOM OF BOX U.N.O.
- GFCI — 120 V - GROUND FAULT CIRCUIT INTERRUPTOR (GFCI) RECEPT, 20 AMPS @ +44" A.F.F. UNLESS NOTED OTHERWISE.
- 100 AMP RECESSED ELECTRICAL PANEL
- 'BROAN', MODEL 676, EXHUAST FAN OR EQUAL - 110 CFM
- CONDUIT
- W/H — WATER HEATER

SCHOOL EQUIPMENT ANCHORAGE

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE EXISTING CONDUITS, SEWER, GAS & WATER PIPING BEFORE DRIVING GROUND RODS. ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

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

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

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

THE ANCHORAGE OF ALL MECHANICAL, ELECTRICAL AND PLUMBING COMPONENTS SHALL BE SUBJECT TO THE APPROVAL OF THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE OR STRUCTURAL ENGINEER DELEGATED RESPONSIBILITY AND ACCEPTANCE BY DSA. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH 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 SECTION 13.6.5, 13.6.6, 13.6.7, 13.6.8 AND 2022 CBC SECTIONS 1617A.1.24, 1617A.1.25 & 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 PREAPPROVED INSTALLATION GUIDE (E.G., OSHPD OPA 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 SYSTEM (E):

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

PROJECT SPECIFIC STATE AGENCY APPROVAL

PROJECT NAME:

SACRAMENTO CITY USD
McCLATHY HIGH SCHOOL
(1) 8'-6" X 21'-6" RESTRM / CUSTODIAL. BLDG
(1) 8'-6" X 32'-0" RESTRM BLDG

SHEET TITLE:

ELECTRICAL PLAN AND SCHEDULES
(8'-6"x21'-6")

REVISIONS

1	
2	
3	
4	
5	

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-122203 INC.
REVIEWED FOR:
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 2975 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES
8'-6" PC

PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-27-2023

P.C. SHEET NUMBER

E-1.02

LIONÄKIS

2025 Nineteenth Street
Sacramento CA 95818
P 916.558.1900
www.lionakis.com

CONSULTANT

SEAL

LICENSED ARCHITECT BRIAN BELL C28712 REN 01-31-25 STATE OF CALIFORNIA

PROJECT

MCCLATCHY HIGH SCHOOL
ATHLETIC FIELD RENOVATION

3066 FREEPORT BLVD,
SACRAMENTO, CA 95818

CLIENT

SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

425 1ST AVE, SACRAMENTO, CA 95818.

ISSUED

MARK	DATE	DESCRIPTION
	12/7/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

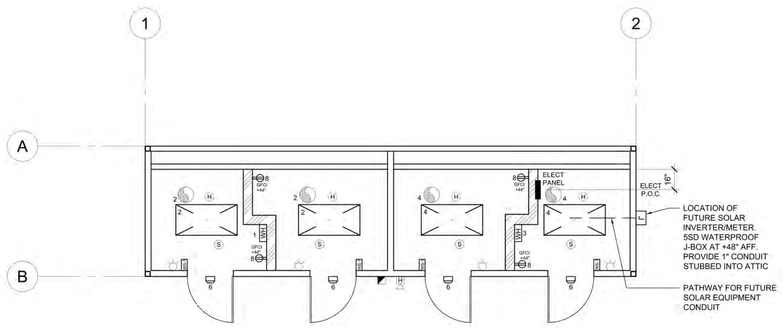
LIONAKIS PROJECT NO:	023040
DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	
COPYRIGHT:	LIONAKIS 2017

TITLE

ELECTRICAL PLAN AND SCHEDULES
(8'-6"X21'-6")

SHEET

E-1.02



NOTES

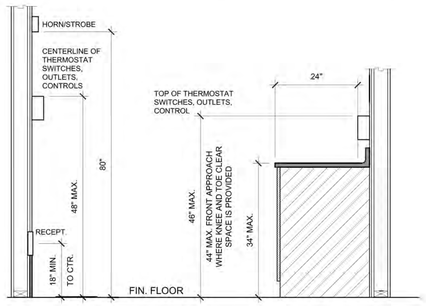
1. FOR COMPLETE ELECTRICAL AND FIRE ALARM SYSTEM, SEE ARCHITECT PLANS.
2. SUSPENDED CEILING SYSTEM NOT SHOWN FOR CLARITY ONLY AND NOT INTENDED FOR SPECIFIC PROJECT USE.

ELECTRICAL PLAN (8'-6" X 32'-0")

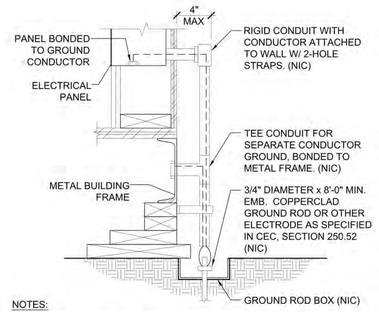
SCALE:1/4" = 1'-0"

ELECTRICAL PANEL

VOLTS: 120/208 VOLT					PANEL: "A"									FEED: BOTTOM	
MAIN: 100 AMP					LOCATION: INTERIOR ACCESS									MOUNTING: FLUSH	
LOAD	QTY	WATTS Aø	WATTS Bø	BREAKER Amps	BREAKER P	Circuit	A	B	Circuit	BREAKER Amps	BREAKER P	WATTS Aø	WATTS Bø	QTY	LOAD
EEMAX WATER HEATER		3000		30	1	1	●		2	20	1	366			LIGHTS/FAN
EEMAX WATER HEATER			3000	30	1	3		●	4	20	1		366		LIGHTS/FAN
						5	●		6	20	1	120			EXTERIOR LIGHTS
						7		●	8	20	1		720		RECEPT.
DED - SOLAR READY						9	●		10						
DED - SOLAR READY						11		●	12						
A = 3,486 WATTS / PHASE		3000	3000									486	1086		B = 4,086 WATTS / PHASE
TOTAL = 7,572 WATTS		36.4 AMPS				120/208 VOLTS						1 Ø		3	WIRE



TYPICAL MOUNTING HEIGHTS



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

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

PROJECT SPECIFIC STATE AGENCY APPROVAL

PROJECT NAME:

SACRAMENTO CITY USD
McCLATHY HIGH SCHOOL
(1) 8'-6" X 21'-6" RESTRM / CUSTODIAL BLDG
(1) 8'-6" X 32'-0" RESTRM BLDG

SHEET TITLE:

ELECTRICAL PLAN AND SCHEDULES
(8'-6" X 30'-0")

REVISIONS

1	
2	
3	
4	
5	

PRE-CHECK (PC) DOCUMENT
CODE: 2022 CBC
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP. 04-122203 INC.
REVIEWED FOR:
SS ☑ FLS ☑ ACS ☑
DATE: 08/31/2023

PC STATE AGENCY APPROVAL

Silver Creek
2830 BARRETT AVE PERRIS, CALIFORNIA 92571
PHONE: 951-943-5393 FAX: 951-943-2211

MODULAR BUILDING DESIGN PROFESSIONAL

REGISTERED PROFESSIONAL ENGINEER JOHN W STARLING 29775 STRUCTURAL STATE OF CALIFORNIA

SILVER CREEK INDUSTRIES	8'-6" PC
PROJECT NO:	
DRAWN BY:	
SCALE:	AS NOTED
DATE:	02-27-2023
P.C. SHEET NUMBER	E-1.03

LIONÄKIS
2025 Nineteenth Street
Sacramento CA 95818
P 916.558.1900
www.lionakis.com

CONSULTANT

SEAL

LICENSED ARCHITECT BRIAN BELL C28712 REN 01-31-25 STATE OF CALIFORNIA

PROJECT
MCCLATCHY HIGH SCHOOL
ATHLETIC FIELD RENOVATION

3066 FREEPORT BLVD,
SACRAMENTO, CA 95818

CLIENT
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

425 1ST AVE, SACRAMENTO, CA 95818.

ISSUED

MARK	DATE	DESCRIPTION
	12/7/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

LIONAKIS PROJECT NO:	023040
DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	
COPYRIGHT:	LIONAKIS 2017

TITLE
ELECTRICAL PLAN AND SCHEDULES
(8'-6"X32'-0")

SHEET
E-1.03

IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY

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12/8/2023 8:26:57 AM