

# SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

## LUTHER BURBANK HIGH SCHOOL

3500 FLORIN ROAD  
SACRAMENTO, CA 95823

**LIONAKIS**  
2025 Nineteenth Street  
Sacramento CA 95818  
P 916.558.1900 F 916.558.1919  
www.lionakis.com  
CONSULTANT

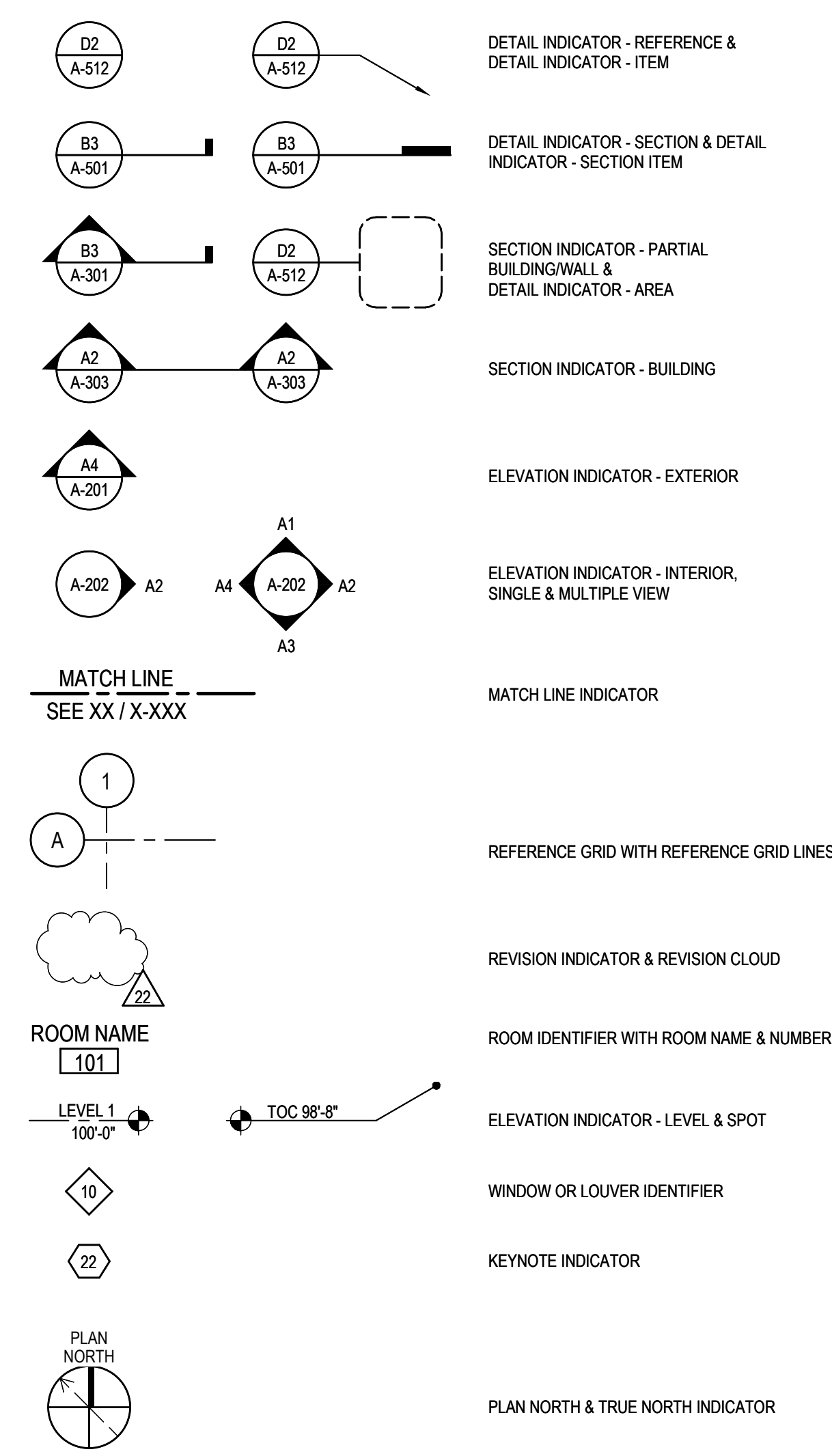
# LUTHER BURBANK HIGH SCHOOL

## ATHLETIC FIELDS RENOVATION

DSA SUBMITTAL BID SET (NOT DSA APPROVED) - DECEMBER 01, 2023



### ARCHITECTURAL SYMBOLS LEGEND



### LIST OF ARCHITECTURAL ABBREVIATIONS

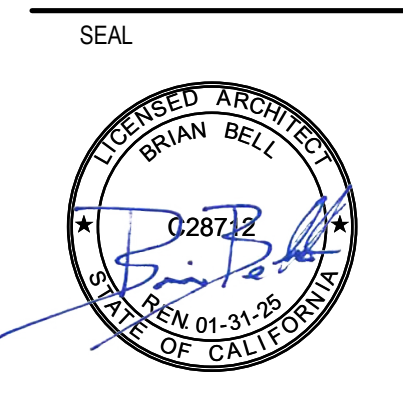
SEE UNITED STATES NATIONAL CAD STANDARD FOR ANY ABBREVIATIONS NOT LISTED BELOW.	DHM DETENTION HOLLOW METAL	MATL MATERIAL	STD STANDARD
DIAM DIA	MAX MAXIMUM	STL STEEL	STOR STORAGE
DIM DIMENSION	MECH MECHANICAL	STRUC STRUCTURAL	SUSP CLG SUSPENDED CEILING
DS DOWNSPOUT	MEMB MEMBRANE	SYMM SYMMETRICAL	SV SHEET VINYL
DSP DRY STANDPIPE	MFR MANUFACTURER	SYS SYSTEM	T TREAD
DWG DRAWING	MIN MINIMUM	THK THICKNESS	TOC TOP OF CURB
EA EACH	MISC MISCELLANEOUS	TMH TOP OF MANHOLE	TOF TOP OF FRAME
EGBB EXTERIOR GYPSUM SHEATHING BOARD	MO MASONRY OPENING	TPMD TEMPERED	TOJ TOP OF JOIST
EIFS EXTERIOR INSULATION AND FINISH SYSTEM	MR MOISTURE RESISTANT	T&G TONGUE & GROOVE	TOM TOP OF MASONRY
EJ EXPANSION JOINT	MTD MOUNTED	THK THICKNESS	TOP TOP OF PARAPET
EL ELEVATION	MTL METAL	TMH TOP OF MANHOLE	TOPO TOPOGRAPHY
ELEC ELECTRIC / ELECTRICAL	MULL MULLION	TPMD TEMPERED	TOPOF TOP OF STEEL
ELEV ELEVATOR	NIC NOT IN CONTRACT	TO TOP OF	TOF TOP OF FRAME
EMER EMERGENCY	NO NUMBER	TOF TOP OF	TOJ TOP OF JOIST
ENCL ENCLOSURE	NOM NOMINAL	TOF TOP OF	TOM TOP OF MASONRY
EPB ELECTRICAL PANEL BOARD	NTS NOT TO SCALE	TOF TOP OF	TOP OF PARAPET
EQU EQUAL	OC OVER	TOF TOP OF	TOPO TOPOGRAPHY
EQUIP EQUIPMENT	ON CENTER	TOF TOP OF	TOPOF TOP OF STEEL
EW EACH WAY	OS OUTSIDE DIAMETER	TOF TOP OF	TOF TOP OF
EWG ELECTRIC WATER COOLER	OW OWNER FURNISHED / CONTRACTOR INSTALLED	TOF TOP OF	TOF TOP OF
EXH EXHAUST	OFF OFFICE	TOF TOP OF	TOF TOP OF
EXST EXISTING	OGL OBLIQUE GLASS	TOF TOP OF	TOF TOP OF
EXP EXPANSION	OPH OPPOSITE HAND	TOF TOP OF	TOF TOP OF
EXT EXTERIOR	OPNG OPENING	TOF TOP OF	TOF TOP OF
FA FIRE ALARM	OPP OPPOSITE	TOF TOP OF	TOF TOP OF
FB FLOOR DRAIN	PAF POWER ACTUATED FASTENER	TOF TOP OF	TOF TOP OF
FD FOUNDATION	PL PLASTIC LAMINATE	TOF TOP OF	TOF TOP OF
FE FIRE EXTINGUISHER	PLBG PLUMBING	TOF TOP OF	TOF TOP OF
FEC FIRE EXTINGUISHER CABINET	PLYWD PLYWOOD	TOF TOP OF	TOF TOP OF
FIN FINISH	PNL PANEL	TOF TOP OF	TOF TOP OF
FLG FLOORING	PROP PROPERTY	TOF TOP OF	TOF TOP OF
FLL FLOW LINE	PSF POUNDS PER SQUARE FOOT	TOF TOP OF	TOF TOP OF
FLR FLOOR	PSP POUNDS PER SQUARE INCH	TOF TOP OF	TOF TOP OF
FCO FACE OF CONCRETE/CURB	PT PAINT, PAINT	TOF TOP OF	TOF TOP OF
FDF FACE OF FINISH	PTN PARTITION	TOF TOP OF	TOF TOP OF
FOM FACE OF MASONRY	PV PHOTOVOLTAIC	TOF TOP OF	TOF TOP OF
FOS FACE OF STUD	QT QUARRY TILE	TOF TOP OF	TOF TOP OF
FWO FACE OF WALL	R RADIUS, RISER	TOF TOP OF	TOF TOP OF
FR FIREPROOF	RD ROOF DRAIN	TOF TOP OF	TOF TOP OF
FRP FIBERGLASS REINFORCED PLASTIC	REBAR REINFORCING STEEL BAR	TOF TOP OF	TOF TOP OF
FT FEET / FOOT	REF REFERENCE	TOF TOP OF	TOF TOP OF
FTG FOOTING	REF REFRIGERATOR	TOF TOP OF	TOF TOP OF
FURG FURRING	REIN REINFORCE / REINFORCING	TOF TOP OF	TOF TOP OF
FUT FUTURE	REQD REQUIRED	TOF TOP OF	TOF TOP OF
G GAGE	RESIL RESILIENT	TOF TOP OF	TOF TOP OF
GALV GALVANIZED	RM ROOM	TOF TOP OF	TOF TOP OF
GB GRAB BAR	RO ROUGH OPENING	TOF TOP OF	TOF TOP OF
GI GALVANIZED IRON	RWD REDWOOD	TOF TOP OF	TOF TOP OF
GLU LAM GLUED LAMINATED WOOD	RWL RAIN WATER LEADER	TOF TOP OF	TOF TOP OF
GYP GYPSUM	SAD SEE ARCHITECTURAL DRAWINGS	TOF TOP OF	TOF TOP OF
HOSE BIB	SATC SUSPENDED ACOUSTICAL TILE	TOF TOP OF	TOF TOP OF
HC HOLLOW CORE	SB SPLASH BLOCK	TOF TOP OF	TOF TOP OF
HDBD HARDBOARD	SC SOLID CORE	TOF TOP OF	TOF TOP OF
HWD HARDWARE	SCHED SCHEDULE	TOF TOP OF	TOF TOP OF
HWDW HARDWOOD	SD STORM DRAIN	TOF TOP OF	TOF TOP OF
HM HOLLOW METAL	SDT SELF DRIVING, SELF TAPPING	TOF TOP OF	TOF TOP OF
HORIZ HORIZONTAL	SHT SHEET	TOF TOP OF	TOF TOP OF
HR HOUR	SHTG SHEATHING	TOF TOP OF	TOF TOP OF
HT HEIGHT	SHV SHELVING	TOF TOP OF	TOF TOP OF
ID INSIDE DIAMETER	SIMR SIMLAR	TOF TOP OF	TOF TOP OF
INSUL INSULATION	SLNT SEALANT	TOF TOP OF	TOF TOP OF
INT INTERIOR	SM SHEET METAL	TOF TOP OF	TOF TOP OF
JAN JANITOR	SPEC SPECIFICATION	TOF TOP OF	TOF TOP OF
KIT KITCHEN	SQ SQUARE	TOF TOP OF	TOF TOP OF
L ANGLE	SS SANITARY SEWER, SERVICE	TOF TOP OF	TOF TOP OF
LAB LABORATORY	SINK SINK	TOF TOP OF	TOF TOP OF
LAV LAVATORY	SST STAINLESS STEEL	TOF TOP OF	TOF TOP OF

### PROJECT DIRECTORY

<b>OWNER</b> SAC CITY UNIFIED SCHOOL DISTRICT 5735 47TH AVENUE SACRAMENTO CA 95824 CONTACT: CHRIS RALSTON PHONE: 916.395.3970 EMAIL: CHRIS-RALSTON@SCUSD.EDU	<b>STRUCTURAL ENGINEER</b> LIONAKIS 2025 19TH STREET SACRAMENTO, CA 95818 CONTACT: LUCAS JOLLY PHONE: 916.558.1900 EMAIL: LUCAS.JOLLY@LIONAKIS.COM
<b>CIVIL ENGINEER</b> WARREN CONSULTING ENGINEERS, INC. 1117 WINDFIELD WAY, SUITE 110 EL DORADO HILLS, CA 95762 CONTACT: SETH NESEBET PHONE: 916.985.1870 EMAIL: SETH@WCEINC.COM	<b>LANDSCAPE ARCHITECT</b> ANLA ASSOCIATES, INC. 1213 LINCOLN AVENUE, SUITE 211 SAN JOSE, CA 95125 CONTACT: ERIC PLATO PHONE: 408.292.2198 EMAIL: ERICKP@ANLA-ASSOCIATES.COM
<b>ARCHITECT</b> LIONAKIS 2025 19TH STREET SACRAMENTO, CA 95818 CONTACT: BRIAN BELL PHONE: 916.558.1900 EMAIL: BRIAN.BELL@LIONAKIS.COM	<b>ELECTRICAL ENGINEER</b> THE ENGINEERING ENTERPRISE 1125 HIGH STREET AUBURN, CA 95603 CONTACT: DANNY MCKEVITT PHONE: 530.886.8586 EMAIL: DMCKEVIT@ENGENET.COM

### GENERAL NOTES

- CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES ETC. PRIOR TO CONSTRUCTION.
- 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.
- WHERE REQUIRED, ROOM OCCUPANCY CAPACITIES SHALL BE POSTED WITH THE REQUIREMENTS OF CALIFORNIA STATE FIRE MARSHAL & CBC 1004.9.
- 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
- CONSTRUCTION SHALL CONFORM TO ALL APPLICABLE CODES AND REGULATIONS, INCLUDING BUT NOT LIMITED TO:  
- TITLE 19 CCR, PUBLIC SAFETY, STATE FIRE MARSHAL 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 (FCF)  
- 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 STANDBY PIPES AND HOSE SYSTEMS  
- 2021 NFPA 17A, WET CHEMICAL EXTINGUISHING SYSTEMS  
- 2021 NFPA 20, INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION  
- 2018 NFPA 22, WATER TANKS FOR PRIVATE FIRE PROTECTION  
- 2022 NFPA 24, INSTALLATION OF PRIVATE FIRE SERVICE MAINS AND THEIR APPLIANCES  
- 2020 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  
- 2017 ICC 300, STANDARD ON BLEACHERS, FOLDING AND TELESCOPIC SEATING AND GRANDSTANDS
- 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 1 (CFC 4-338) SUBSTITUTIONS OF PRODUCTS OR PROCESSES WHICH AFFECT STRUCTURAL SAFETY, FIRE AND LIFE SAFETY, OR ACCESSIBILITY SHALL BE SUBMITTED AS AN ADDENDUM OR CONSTRUCTION CHANGE DOCUMENT TO DSA FOR REVIEW AND APPROVAL.
- A CLASS 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.
- CONSTRUCTION AND DEMOLITION SHALL CONFORM TO 2022 CFC, CHAPTER 33.
- A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
- 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 SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(c), PART 1, TITLE 24, CCR)
- GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
- 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.
- LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).
- 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>
- 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.
- LIONAKIS WILL NOT PROVIDE ANY INFORMATION CONCERNING HAZARDOUS MATERIAL. CONTRACTOR SHALL COORDINATE WITH THE OWNER FOR HAZARDOUS MATERIAL SCOPE AND REQUIREMENTS.



PROJECT  
**LUTHER BURBANK HIGH SCHOOL**  
ATHLETIC FIELDS RENOVATION

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CLIENT  
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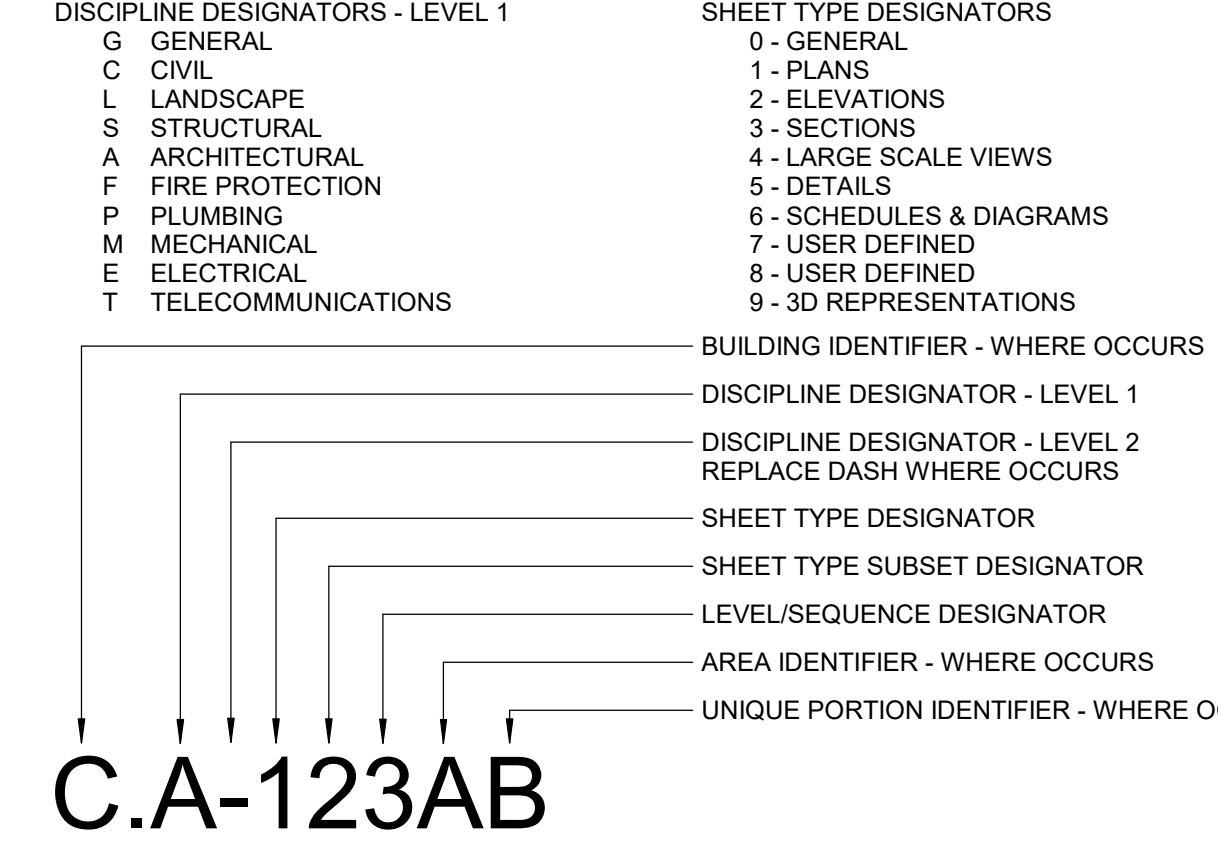
MARK	DATE	DESCRIPTION
	08/10/2023	DSA SUBMITTAL
	12/01/2023	BID SET - NOT DSA APPROVED

ISSUED

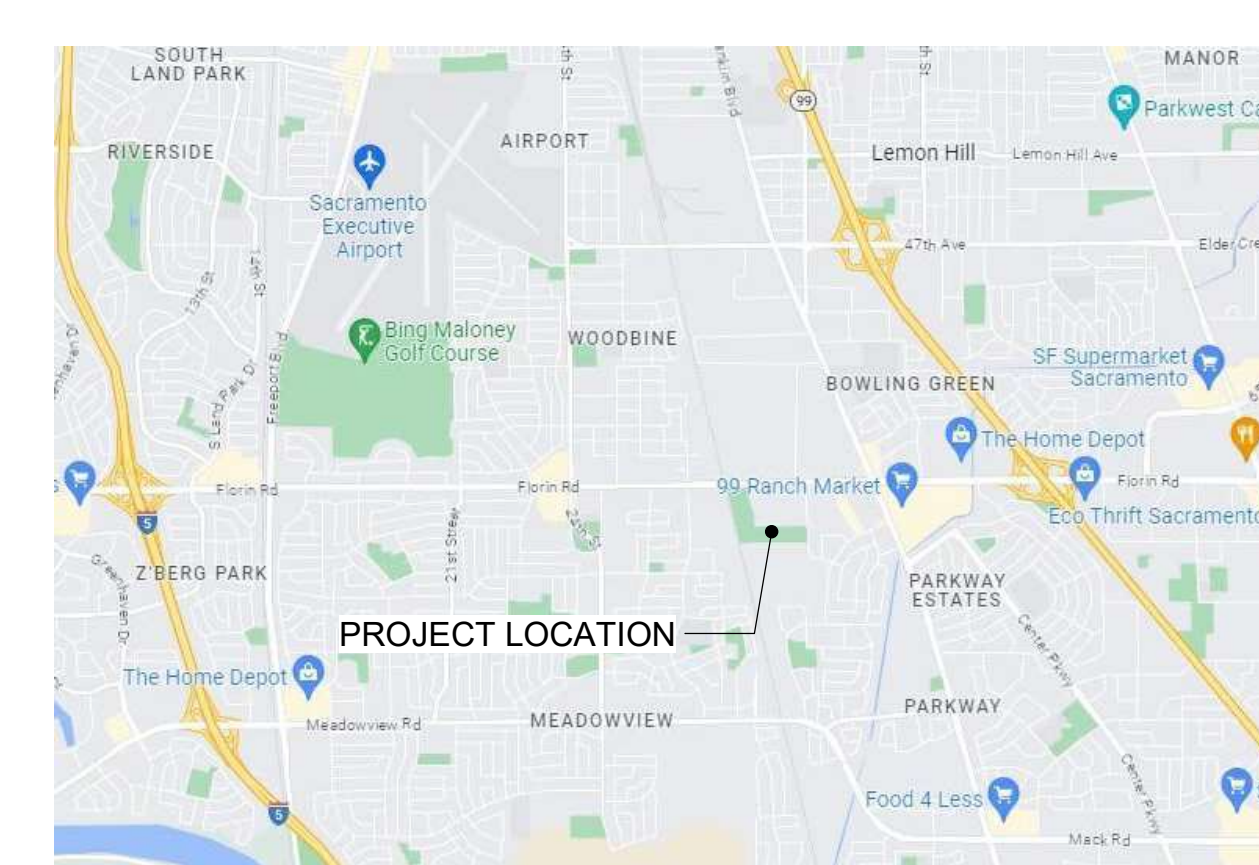
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LIONAKIS PROJECT NO.	023041
DSA APPLICATION NO.	02-121593
CLIENT PROJECT NO.	
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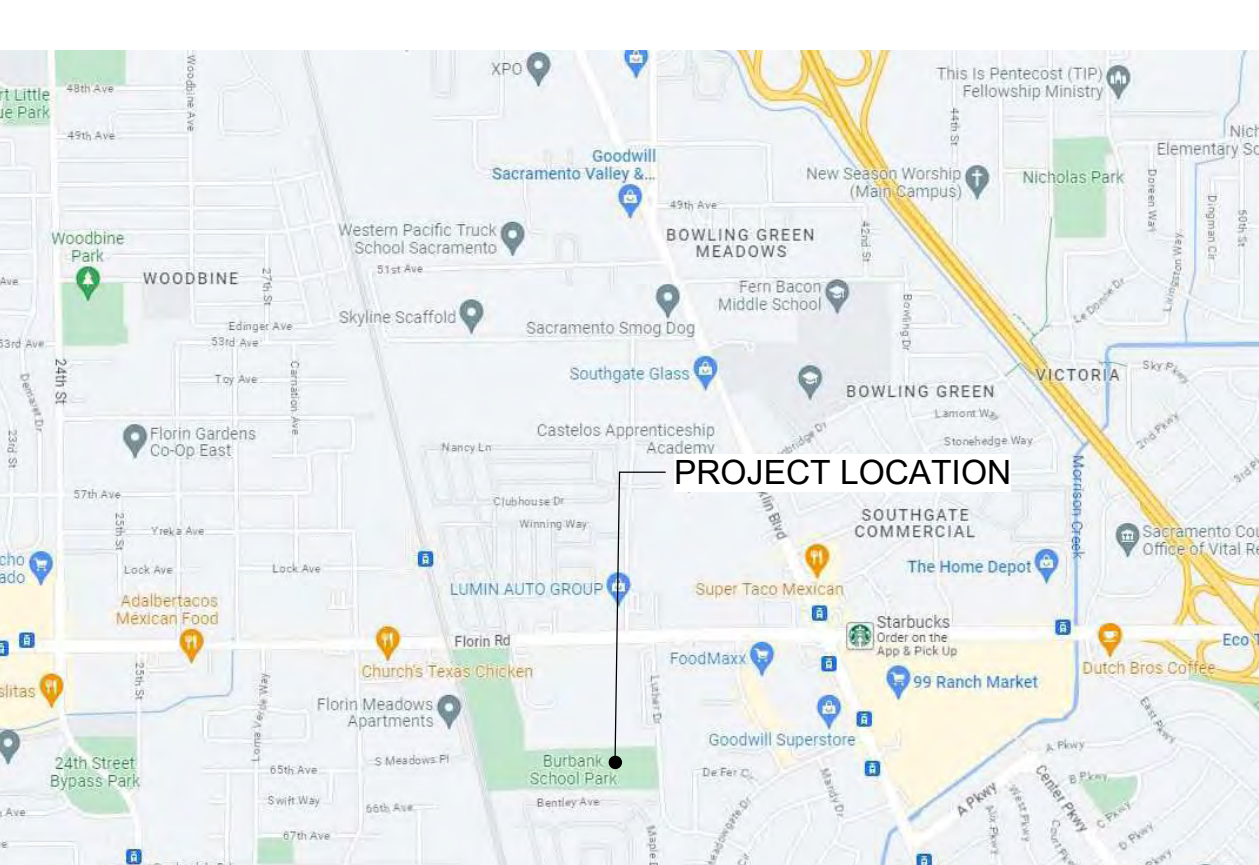
### SHEET IDENTIFICATION LEGEND



### LOCATION MAP



### VICINITY MAP



### TITLE HERE

**FOR ARCHITECTS/ENGINEERS WHO UTILIZE PLANS, INCLUDING BUT NOT LIMITED TO SHOP DRAWINGS, PREPARED BY OTHER LICENSED DESIGN PROFESSIONALS AND/OR CONSULTANTS (APPLICATION NO. 02-121593, FILE NO. 34-117)**

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

- DESIGN INTENT AND APPEARS TO MEET THE APPROPRIATE REQUIREMENTS OF TITLE 24, CALIFORNIA CODE OF REGULATIONS AND THE PROJECT SPECIFICATIONS PREPARED BY ME, AND COORDINATION WITH MY PLANS AND SPECIFICATIONS AND IS ACCEPTABLE FOR INCORPORATION INTO THE CONSTRUCTION OF THIS PROJECT.
- THE STATEMENT OF GENERAL CONFORMANCE "SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER SECTIONS 17932 AND 17119 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))

THE STATEMENT OF GENERAL CONFORMANCE "SHALL NOT BE CONSTRUED AS RELIEVING ME OF MY RIGHTS, DUTIES, AND RESPONSIBILITIES UNDER SECTIONS 17932 AND 17119 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))

*B. Bell* 11/28/2023  
SIGNATURE OF ARCHITECT DATE

C28712 1.31.2025  
LICENSE NUMBER EXPIRATION DATE

### COVER SHEET

NOTE:  
DSA APP# 02-120053 IS UNDER CONSTRUCTION BY OTHERS (NOT PART OF THIS PROJECT SCOPE OF WORK) AND FINAL CERTIFICATION OF THIS DSA APP#02-121593 IS CONTINGENT UPON FINAL CERTIFICATION OF DSA APP# 02-120053.

SHEET  
**G-001**

0 1/4" = 1'

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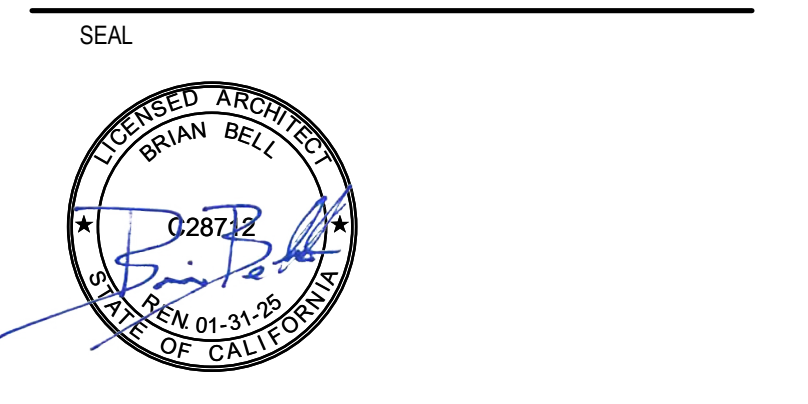
- GENERAL
  - G-001 COVER SHEET
  - G-002 SHEET INDEX
  - GA101 ACCESSIBILITY SITE PLAN
  - GL102 CODE ANALYSIS & FIRE TRUCK ACCESS SITE PLAN
  - G-501 ACCESSIBILITY REQUIREMENTS
- CIVIL
  - C101 CIVIL COVER SHEET
  - VF001 SURVEY INFORMATION SHEET
  - VF101A PARTIAL TOPOGRAPHIC SURVEY AREA A
  - VF101B PARTIAL TOPOGRAPHIC SURVEY AREA B
  - VF101C PARTIAL TOPOGRAPHIC SURVEY AREA C
  - CD101A SURFACE DEMOLITION PLAN AREA A
  - CD101B SURFACE DEMOLITION PLAN AREA B
  - CD101C SURFACE DEMOLITION PLAN AREA C
  - CD101D SURFACE DEMOLITION PLAN AREA C
  - CD101E SURFACE DEMOLITION PLAN AREA C
  - CD102A UTILITY DEMOLITION PLAN AREA A
  - CD102B UTILITY DEMOLITION PLAN AREA B
  - CD102C UTILITY DEMOLITION PLAN AREA C
  - CS102A HORIZONTAL CONTROL PLAN
  - CS601 CONSTRUCTION POINT LIST
  - CG101 ENGINEERED FILL PLAN
  - CG102A GRADING PLAN
  - CG102B GRADING PLAN
  - CG102C GRADING PLAN
  - CG102D GRADING PLAN
  - CU101A DRAINAGE AND SEWER PLAN AREA A
  - CU101B DRAINAGE AND SEWER PLAN AREA B
  - CP101A PAVING PLAN
  - CP101B PAVING PLAN
  - CP102 STRIPING PLAN
  - CK001 EROSION CONTROL NOTES & DETAILS
  - CK101 EROSION CONTROL PLAN
  - CS501 SITE DETAILS
  - CS502 SITE DETAILS
  - CS503 SITE DETAILS
  - CS504 SITE DETAILS
- LANDSCAPE
  - LS10A LAYOUT PLAN
  - LS10B LAYOUT PLAN
  - LS10C LAYOUT PLAN
  - LS16A MATERIALS AND DETAIL REFERENCE PLAN
  - LS16B MATERIALS AND DETAIL REFERENCE PLAN
  - LS16C MATERIALS AND DETAIL REFERENCE PLAN
  - L-56A CONSTRUCTION DETAILS
  - L-56B CONSTRUCTION DETAILS
  - L-56C CONSTRUCTION DETAILS
  - L-56D CONSTRUCTION DETAILS
  - L-56E CONSTRUCTION DETAILS
  - L-56F CONSTRUCTION DETAILS
  - L101A IRRIGATION PLAN
  - L101B IRRIGATION PLAN
  - L101C IRRIGATION PLAN
  - L101D IRRIGATION PLAN
  - L-501 IRRIGATION DETAILS
  - LP101A PLANTING PLAN
  - LP101B PLANTING PLAN
  - LP101C PLANTING PLAN
  - LP101D PLANTING PLAN
  - L-502 PLANTING DETAILS
- STRUCTURAL
  - 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
- ARCHITECTURAL SITE
  - AS405 ENLARGED PLAN - EXISTING RESTROOMS
  - AD101 SITE DEMOLITION PLAN
  - AS101 SITE PLAN - OVERALL
  - AS101A SITE PLAN - AREA A - TENNIS COURTS
  - AS101B SITE PLAN - AREA B - VARSITY BASEBALL FIELD
  - AS101C SITE PLAN - AREA C - VARSITY SOFTBALL FIELD
  - AS401 ENLARGED PLAN - HOME DUGOUT
  - AS402 ENLARGED PLAN - VISITOR DUGOUT
  - AS403 ENLARGED PLAN - BATTING CAGE - BASEBALL
  - AS404 ENLARGED PLAN - BATTING CAGE - SOFTBALL
  - AS501 SITE DETAILS AND DOOR SCHEDULE
- ELECTRICAL
  - E000 SYMBOLS, PROJECT NOTES, AND SHEET INDEX
  - E001 SCHEDULES, POWER ONE LINE & RISER DIAGRAMS
  - E002 TITLE 24
  - E100 OVERALL ELECTRICAL SITE PLAN
  - E200 ENLARGED BASEBALL FIELD ELECTRICAL PLAN
  - E201 ENLARGED SOFTBALL FIELD ELECTRICAL PLAN
  - E300 ELECTRICAL DETAILS
- PC - SHADE STRUCTURE #04-122015
  - S-1 TITLE SHEET
  - S-2 GENERAL DATA
  - S-3 GENERAL NOTES
  - S-4 EXAMPLE DSA-103 FORMS
  - S-5 SECTION PROPERTIES & REBAR DETAILS
  - S-6 FRAMING PLAN
  - S-7 FRAMING ELEVATIONS
  - S-8 FOUNDATION DETAILS
  - S-9 FRAMING CONNECTION DETAILS
  - S-10 PURLIN & ROOF DECK DETAILS
- PC - SCOREBOARD #04-122317
  - SBS.1 COVER
  - SBS.2 STRUCTURAL NOTES & SPECIAL INSPECTIONS
  - SBS.3 EXAMPLE DSA 103 - TESTING AND INSPECTIONS
  - SBS.2 TWO COLUMN CAISSON - BOLTED
  - SBS.1 ATTACHMENT DETAILS
  - SBS.2 OPTIONAL SCOREBOARD FEATURE ATTACHMENT DETAILS

Total Page Count = 98

**LIONAKIS**

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MARK	DATE	DESCRIPTION
	09/10/2023	DSA SUBMITTAL
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MANAGEMENT	
LIONAKIS PROJECT NO:	023041
DSA APPLICATION NO:	02-121593
CLIENT PROJECT NO:	
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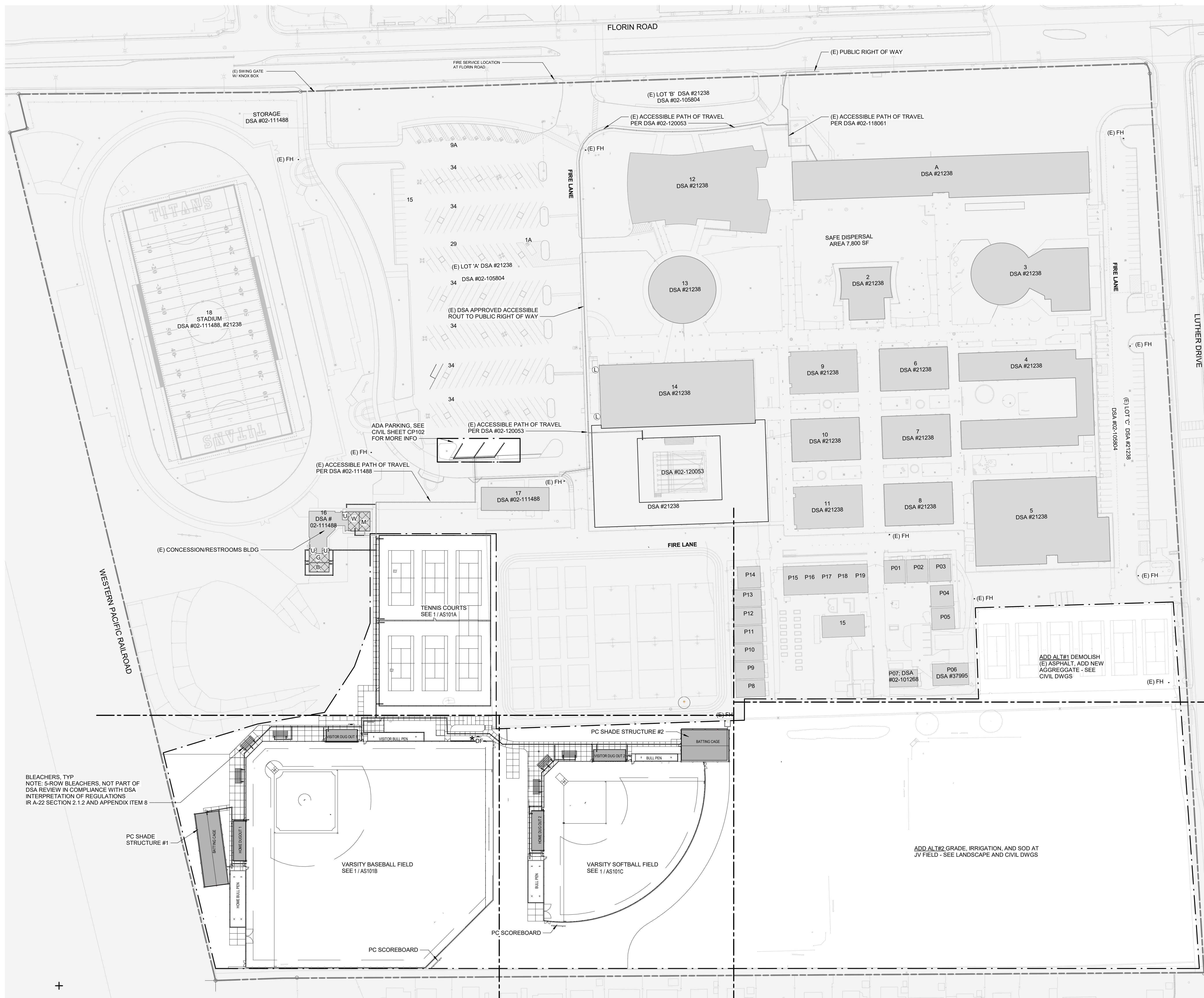
TITLE  
**SHEET INDEX**

SHEET  
**G-002**

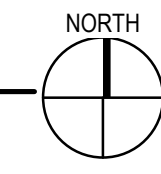
0 1/4" = 1'-0"

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**1 SITE PLAN - ACCESSIBILITY**  
SCALE 1" = 60'-0"



**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 1/2" IF BEVELED AT 1:2 MAXIMUM SLOPE, OR VERTICAL LEVEL CHANGES EXCEEDING 1/4"
  - 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 118-405)
  - 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 1/2" 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 1005-501, AND MUST HAVE PANIC BARS FOR OCCUPANT LOADS ABOVE 49 OCCUPANTS

**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
- B BOYS RESTROOM  
G GIRLS RESTROOM  
U UNISEX RESTROOM  
SM MENS STAFF RESTROOM  
SW WOMENS STAFF RESTROOM
- RESTROOM LOCATION
- ACCESSIBLE RESTROOM
- \*DF ACCESSIBLE HI-LO DRINKING FOUNTAIN
- 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
- (E) SITE LIGHT FIXTURES

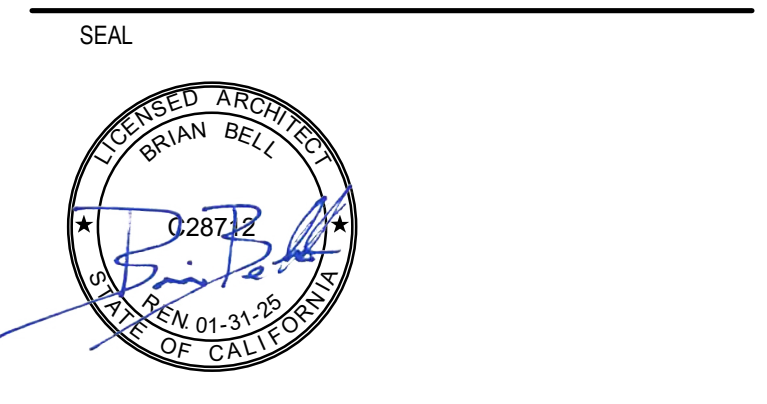
**(E) PARKING SUMMARY**

	(E) ACCESSIBLE STALLS	(E) VAN ACCESSIBLE STALLS	TOTAL (E) ACCESSIBLE STALLS	REQUIRED ACCESSIBLE STALLS	TOTAL (E) STALLS
LOT A	10	4	14	7	267
LOT B	1	1	2	1	6
LOT C	3	1	4	4	79
<b>TOTAL</b>					<b>352</b>

**LIONAKIS**

2025 Nineteenth Street  
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P 916.558.1900 F 916.558.1919  
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CONSULTANT



PROJECT  
**LUTHER BURBANK HIGH SCHOOL  
ATHLETIC FIELDS RENOVATION**

3500 FLORIN ROAD  
SACRAMENTO, CA 95823

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

ISSUED

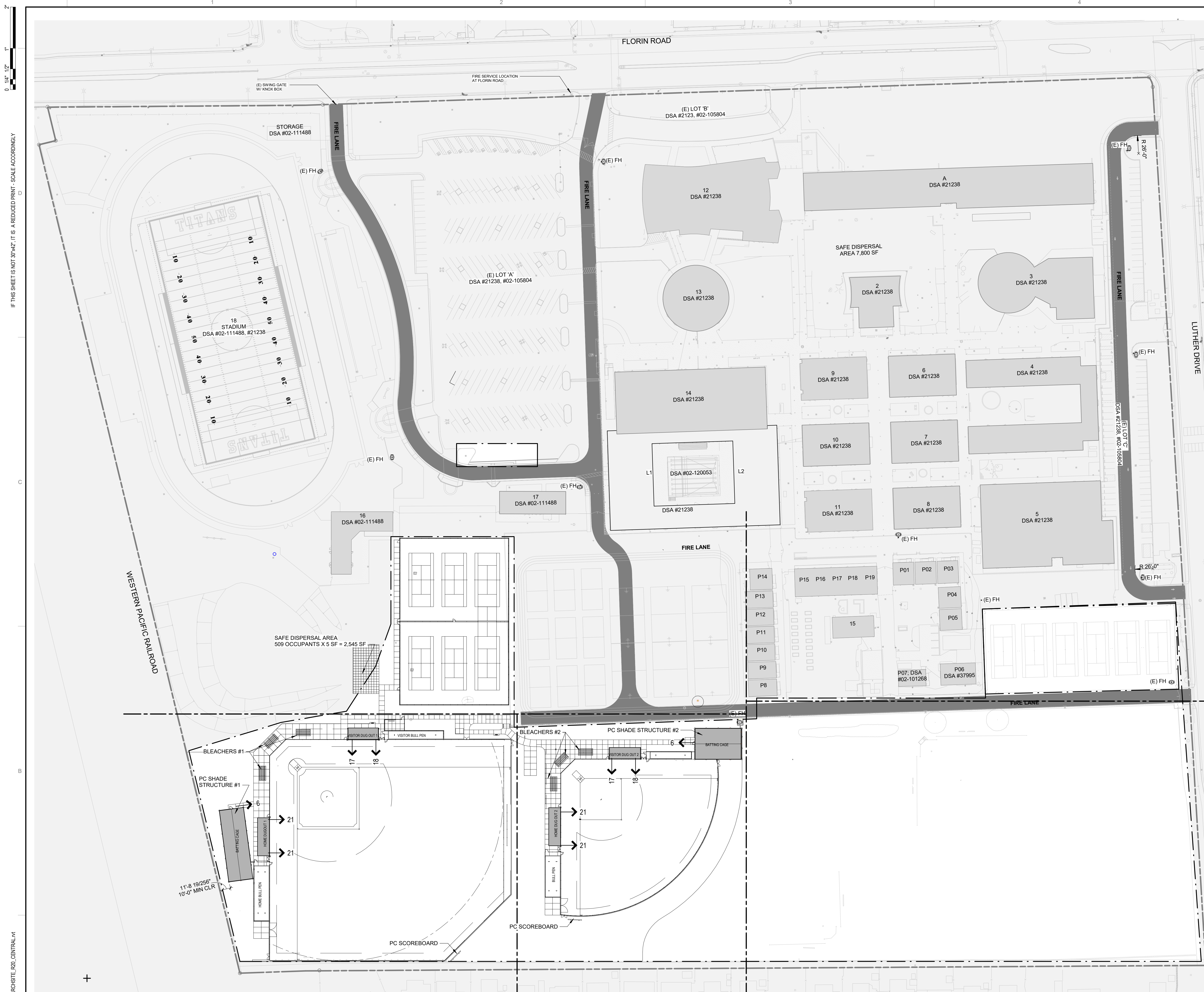
MARK	DATE	DESCRIPTION
	08/10/2023	DSA SUBMITTAL
	12/01/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

LIONAKIS PROJECT NO.	023041
DSA APPLICATION NO.	02-121593
CLIENT PROJECT NO.	
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TITLE  
**ACCESSIBILITY SITE  
PLAN**

SHEET  
**GA101**



1 SITE PLAN - CODE ANALYSIS & FIRE TRUCK ACCESS PLAN  
SCALE 1" = 60'-0"

GENERAL NOTES

- SEE GA101 FOR ACCESSIBLE PATH OF TRAVEL
- ### BUILDING CODE ANALYSIS
- GOVERNING CODE: 2022 CALIFORNIA BUILDING CODE
  - OCCUPANCY TYPE: (CBC CHAPTER 3) GROUP E OCCUPANCY
  - CONSTRUCTION TYPE: (CBC 601 & TABLE 602) TYPE V-B (NON-SPRINKLERED)
  - BASIC ALLOWABLE HEIGHT AND BUILDING AREA: (CBC TABLE 504.3, 504.4, 508.2)

OCCUPANCY GROUP	SF PER STORY	MAX # OF STORIES	ALLOWABLE BLDG HT
GROUP E (NS)	9,500 SF	1 STORIES	40 FT
  - 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, 16'-4" HEIGHT
  - ALLOWABLE HEIGHT INCREASES: (CBC TABLE 504) NOT USED
  - ACTUAL BUILDING AREA:

BUILDING	ACTUAL GROSS BUILDING AREA
SHADE STRUCTURE 1 AND HOME DUGOUT	3,367 SF
SHADE STRUCTURE 2 AND VISITOR DUGOUT	3,413 SF
  - BASIC ALLOWABLE BUILDING AREA FRONTAGE INCREASE: (CBC 506.3) NOT USED
  - OCCUPANT LOAD: (CBC 1004, TABLE 1004.5) HOME DUGOUT: 698 SF / 20 = 42 OCCUPANTS  
VISITOR DUGOUT: 698 SF / 20 = 35 OCCUPANTS  
SHADE STRUCTURE #1: MAX 6 OCCUPANTS  
SHADE STRUCTURE #2: MAX 6 OCCUPANTS  
BLEACHERS #1 (21'-0" x 5 ROWS) 118' PER OCCUPANT = 70 OCC x 3 BLEACHER SET = 210 OCCUPANTS  
BLEACHERS #2 (21'-0" x 5 ROWS) 118' PER OCCUPANT = 70 OCC x 3 BLEACHER SET = 210 OCCUPANTS

LEGEND

- PROPERTY LINE
- LIMITS OF ARCHITECTURAL SCOPE OF WORK
- 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' VERTICAL CLEARANCE WITH 26' INSIDE TURNING RADIUS AND AN ADDITIONAL 2' OF WIDTH PROVIDED TO ALLOW FOR CLEARANCE OF APPARATUS BUMPER OVERHANGS. TYP. VEHICLE BARRIERS SUCH AS GATES SHALL BE PROVIDED WITH A KNOX BOX AT CAMPUS ENTRY POINTS.
- (E) FIRE HYDRANT (FH)
- SAFE DISPERSAL AREA
- EXIT AND NUMBER OF OCCUPANTS USING EXIT

**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 buildings, additions to existing buildings, and for site alternate design measures for the 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. Acknowledgment 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 #5, 09-01: Fire Flow for Buildings.

**PROJECT INFORMATION**

School District/Owner: Sacramento City Unified School District  
Project Name/School: Luther Burbank High School Athletics Field Renovation  
Project Address: 3500 Florin Rd, Sacramento CA 95823

**FIRE & LIFE SAFETY INFORMATION:**

1. Has a fire hydrant flow test been performed within the past 12 months? Yes if: No if:	Yes if: No if:	Yes if: No if:
2. Has the fire hydrant water flow test performed as part of this LFA? Yes if: No if:	Yes if: No if:	Yes if: No if:
3. Is the project located within a designated fire hazard severity zone (FHSZ) as established by Cal Fire? (If yes, include FHSZ classification below)	Yes if: No if:	Yes if: No if:
Refer to the following website for FHSZ locations: <a href="https://sds.ca.gov/2552/">https://sds.ca.gov/2552/</a>	Moderate if: High if: Very High if:	WFA if:
4. Will your project meet (MFA) (If any designations are checked, project design must meet the requirements of CBC Chapter 7A.)		

**DSA 810 FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL**

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

**School District Acknowledgment of Acceptable Design Alternatives:**  
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: Chris Rajston Title: Director III, Facilities, M&O  
Signature: *[Signature]* Date: 11/28/2023

**LOCAL FIRE AUTHORITY (LFA) INFORMATION**

LFA Agency Name: Sacramento City Fire Department  
LFA Review Official: King Tunson  
Title: Program Specialist, Fire Planning & Admin. Work Phone: (916) 808-1358  
Work Email: ktunson@sfd.ci.sacramento.org  
LFA Reviewer's Signature: *[Signature]* Date: 11/21/2023



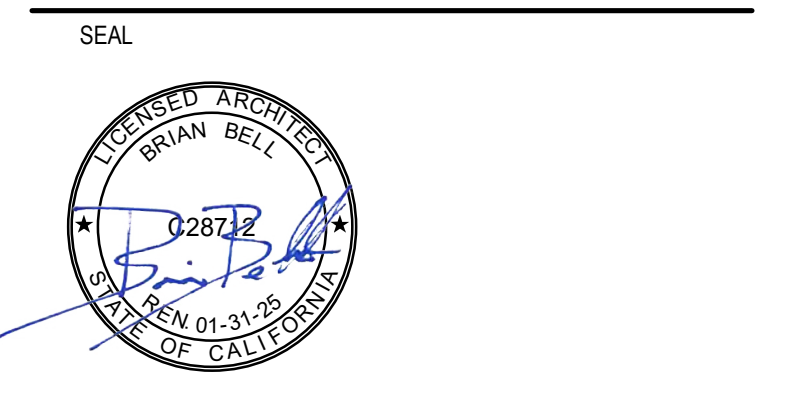
CONSULTANT

PROJECT  
**LUTHER BURBANK HIGH SCHOOL  
ATHLETIC FIELDS RENOVATION**

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CLIENT  
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

5735 47TH AVENUE, SACRAMENTO, CA 95824



ISSUED

MARK	DATE	DESCRIPTION
	09/10/2023	DSA SUBMITTAL
	12/01/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

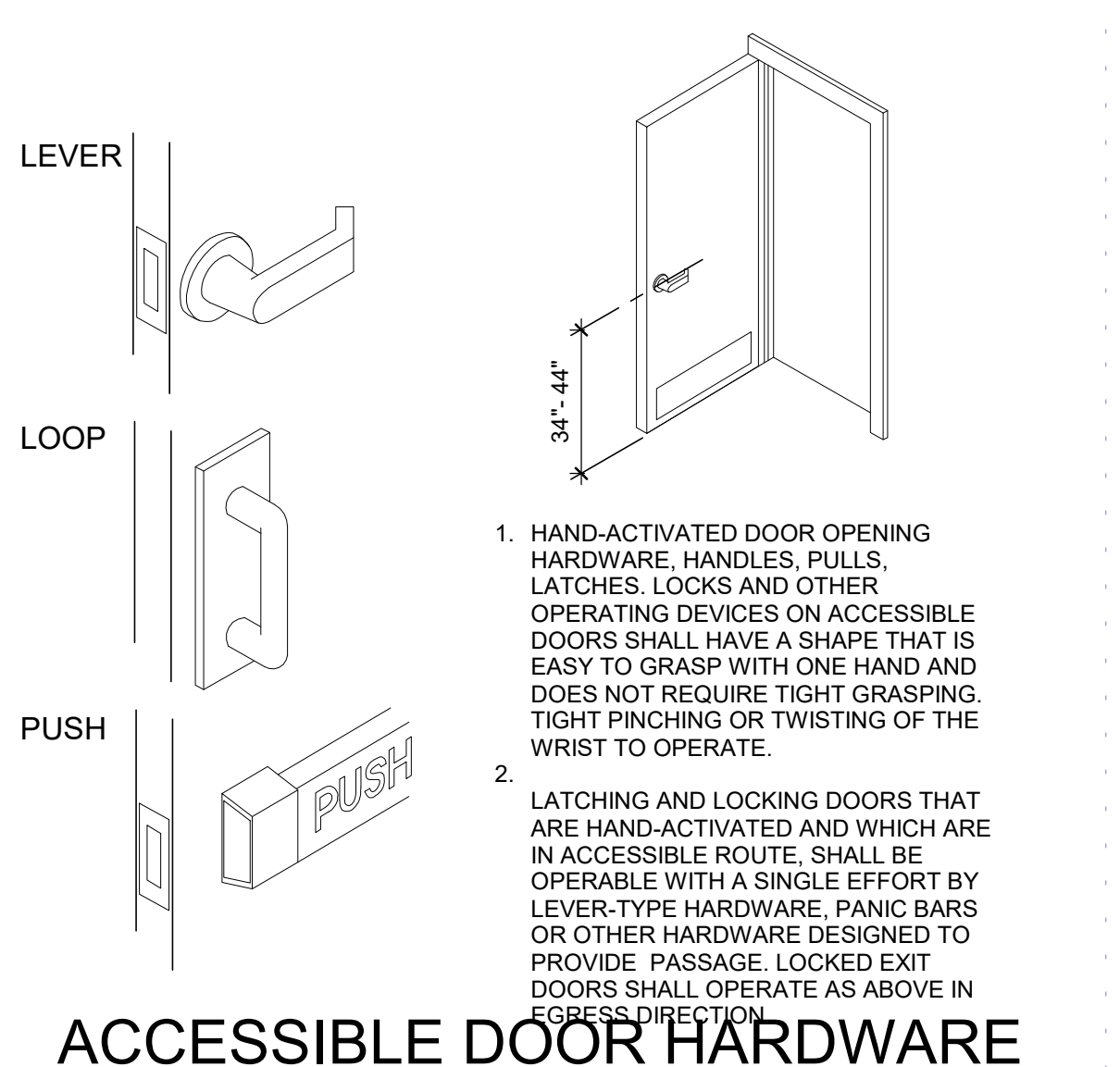
LIONAKIS PROJECT NO.: 023041  
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CLIENT PROJECT NO.:  
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TITLE

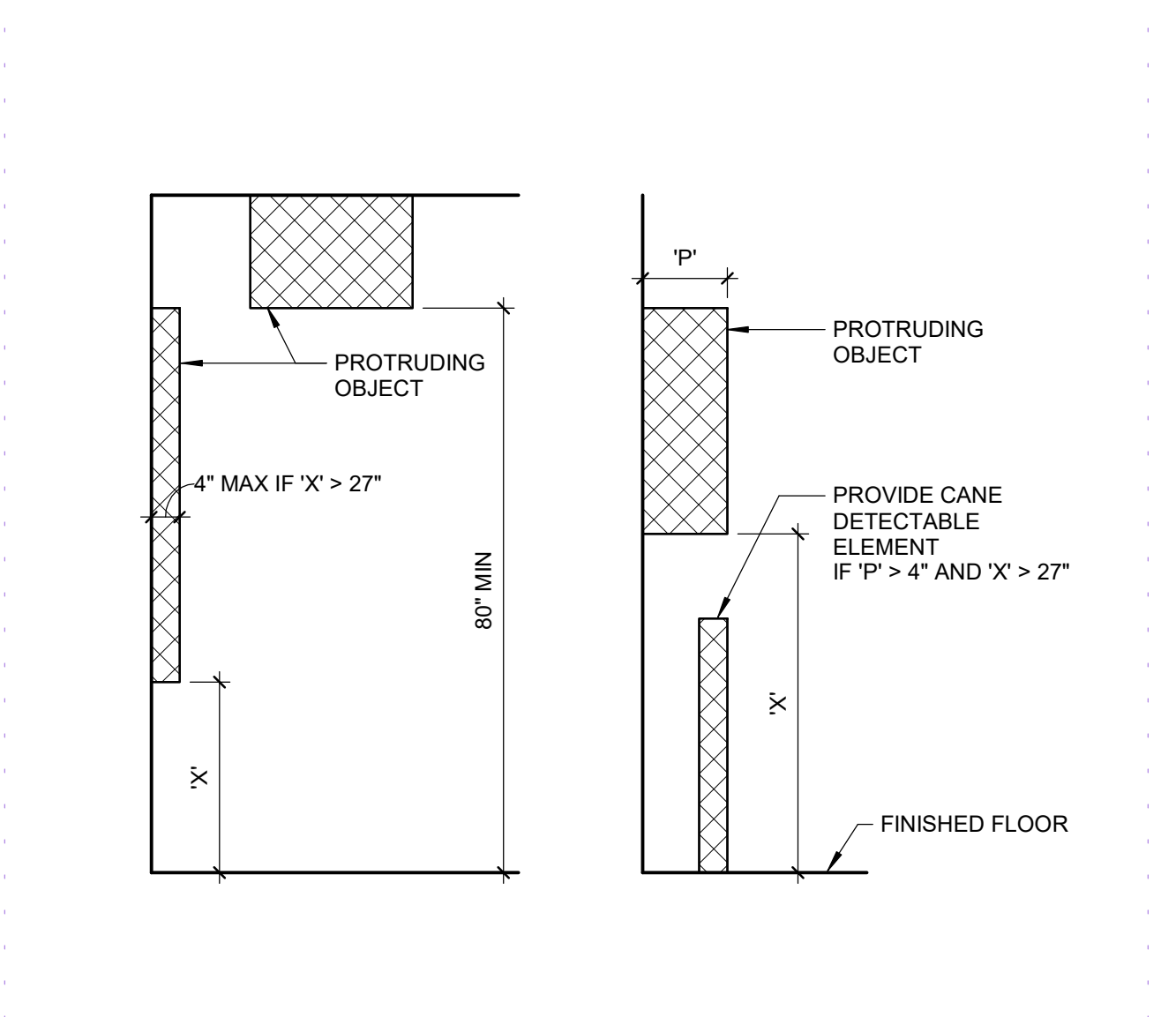
**CODE ANALYSIS & FIRE  
TRUCK ACCESS SITE  
PLAN**

SHEET

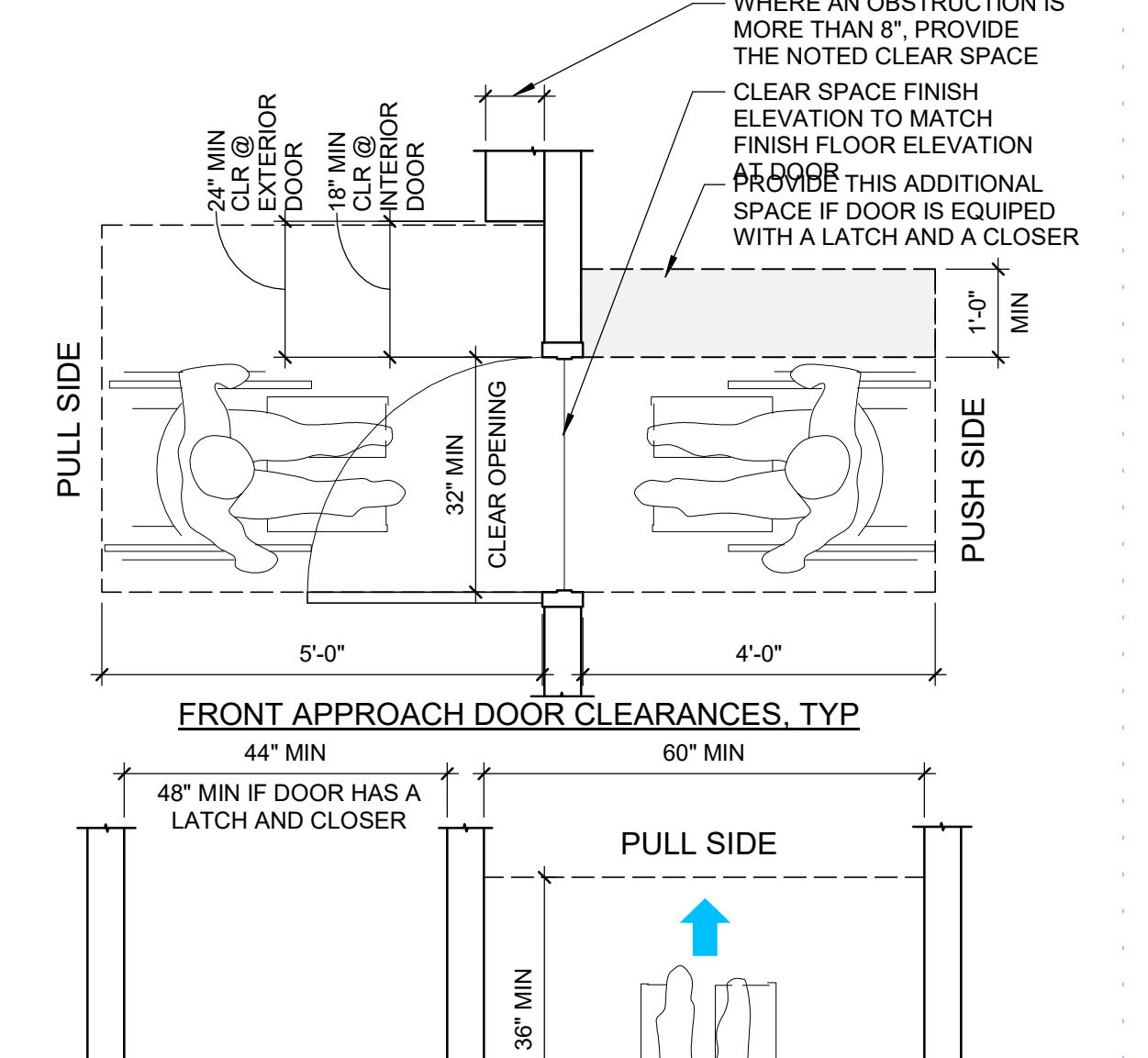
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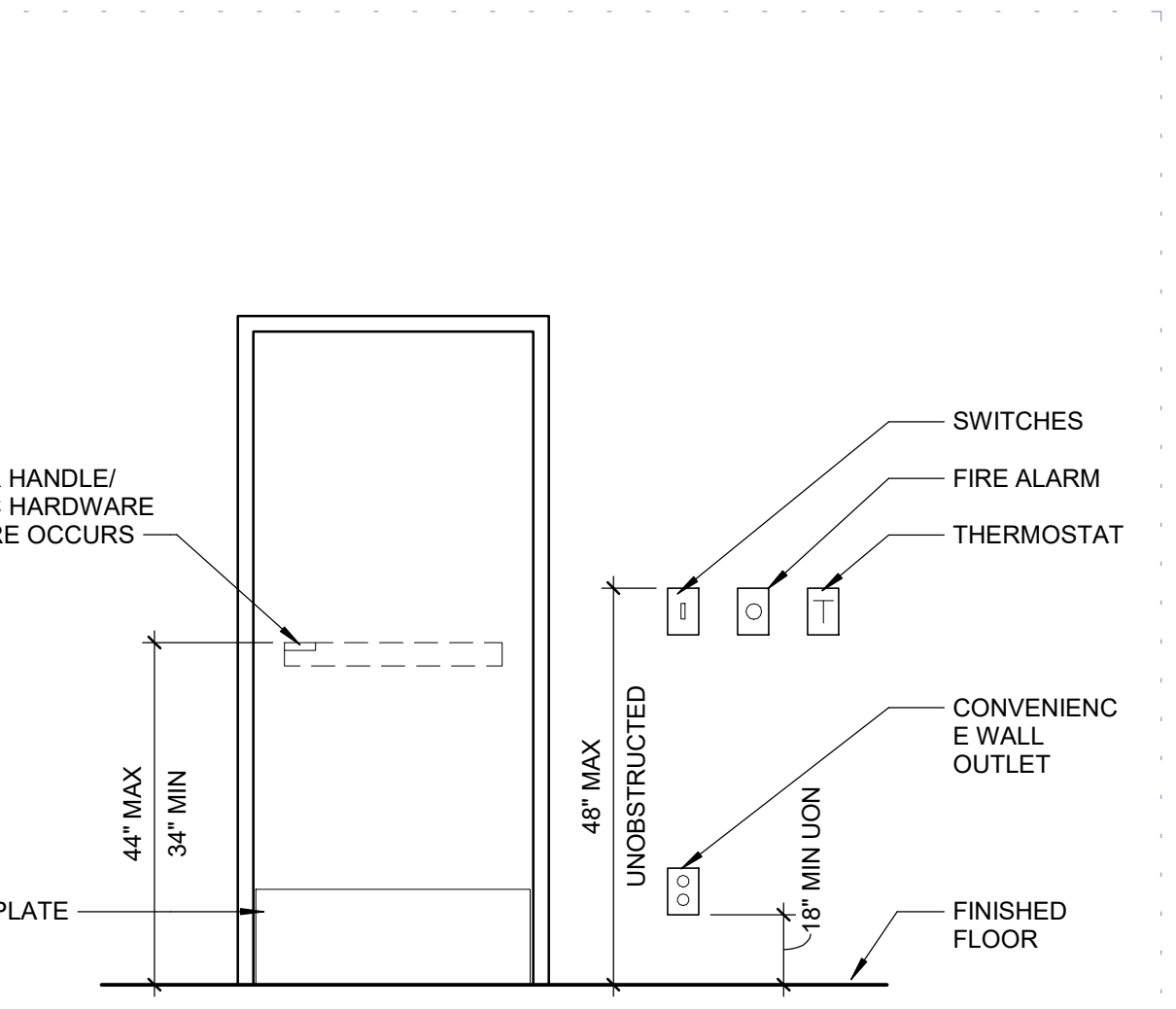
**1** ACCESSIBLE DOOR HARDWARE REQUIREMENTS  
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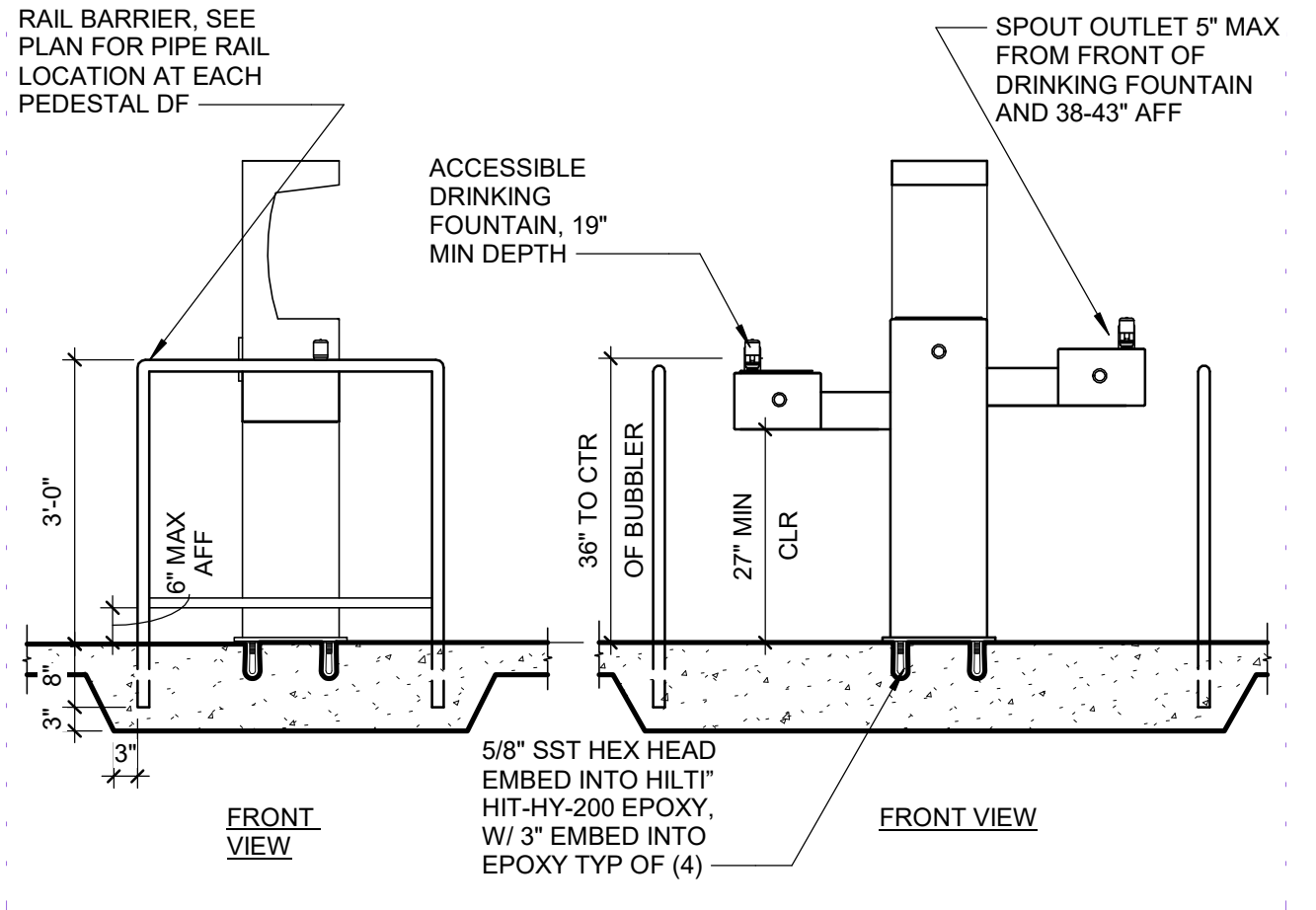
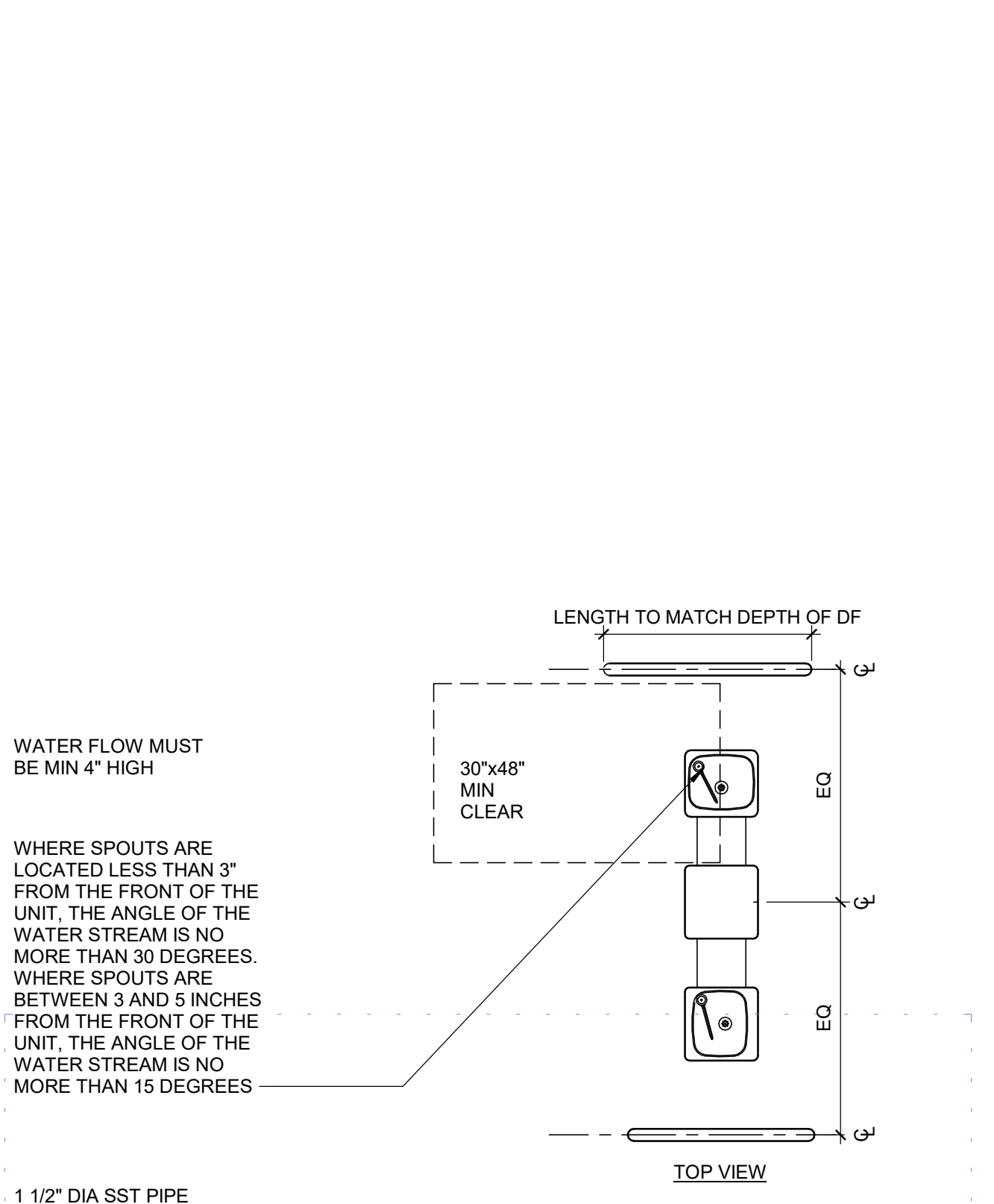
**5** PROTRUDING OBJECTS  
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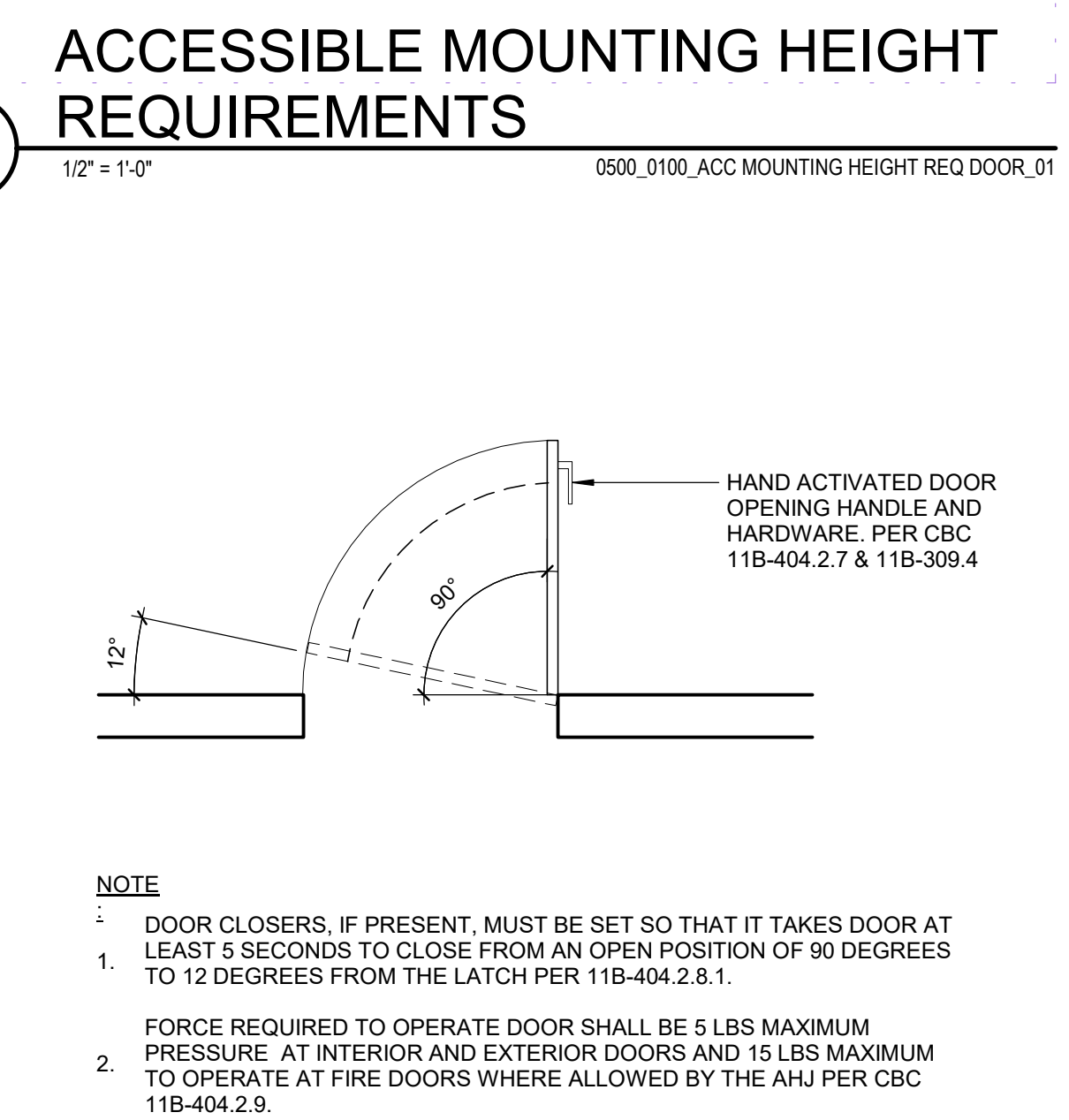
**10** ACCESSIBLE DOOR CLEARANCES  
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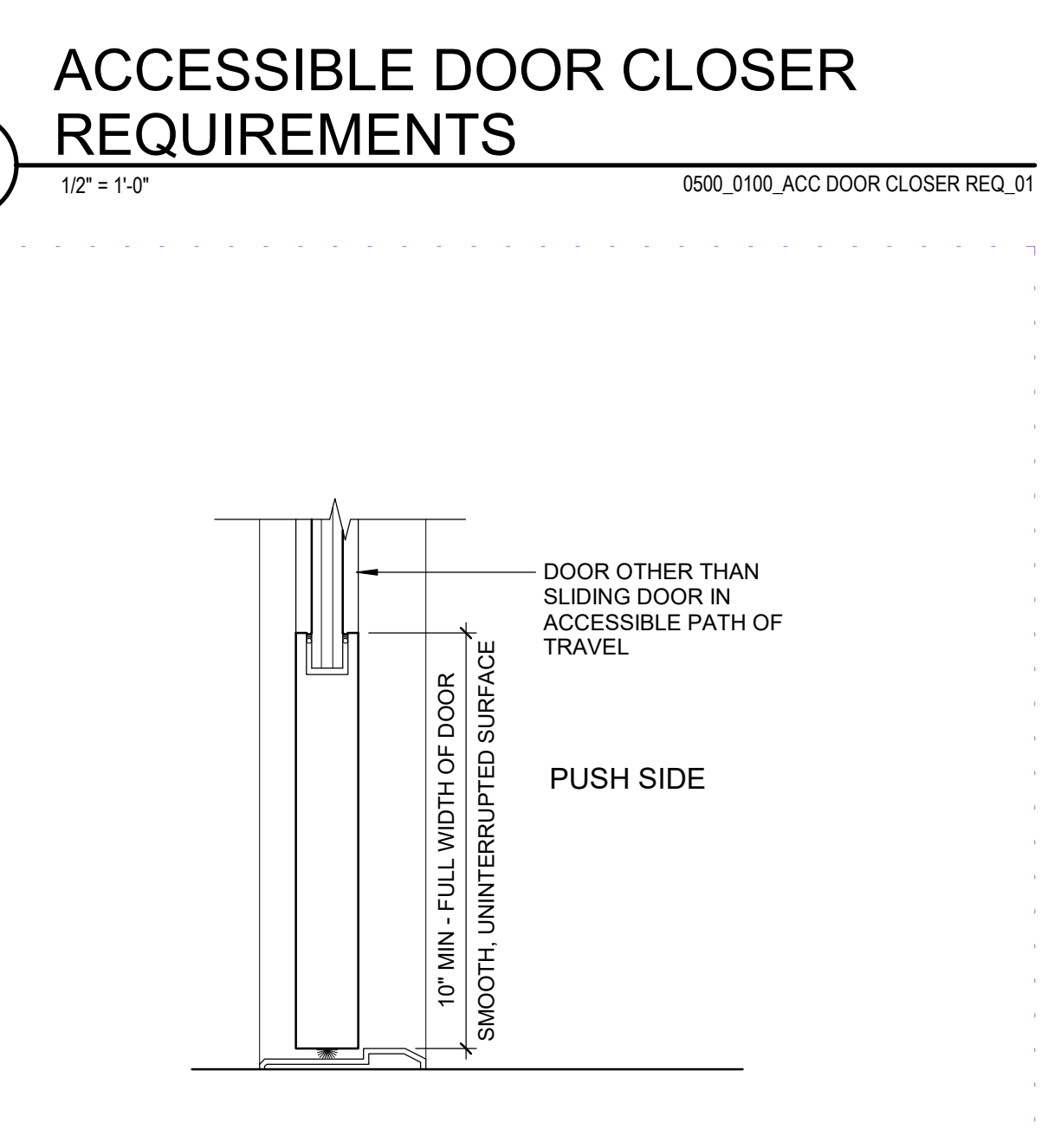
**2** ACCESSIBLE MOUNTING HEIGHT REQUIREMENTS  
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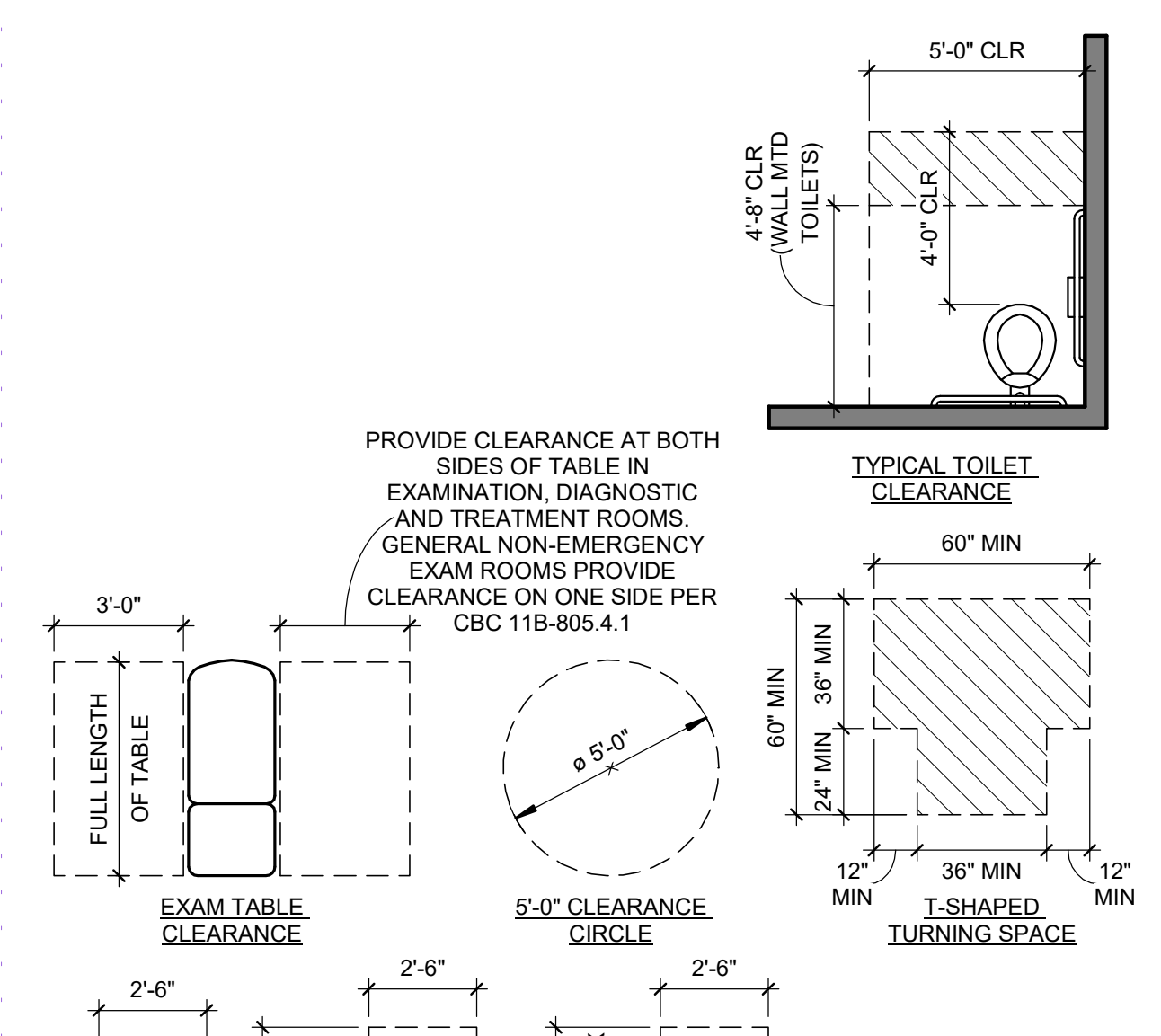
**6** PEDESTAL DRINKING FOUNTAIN  
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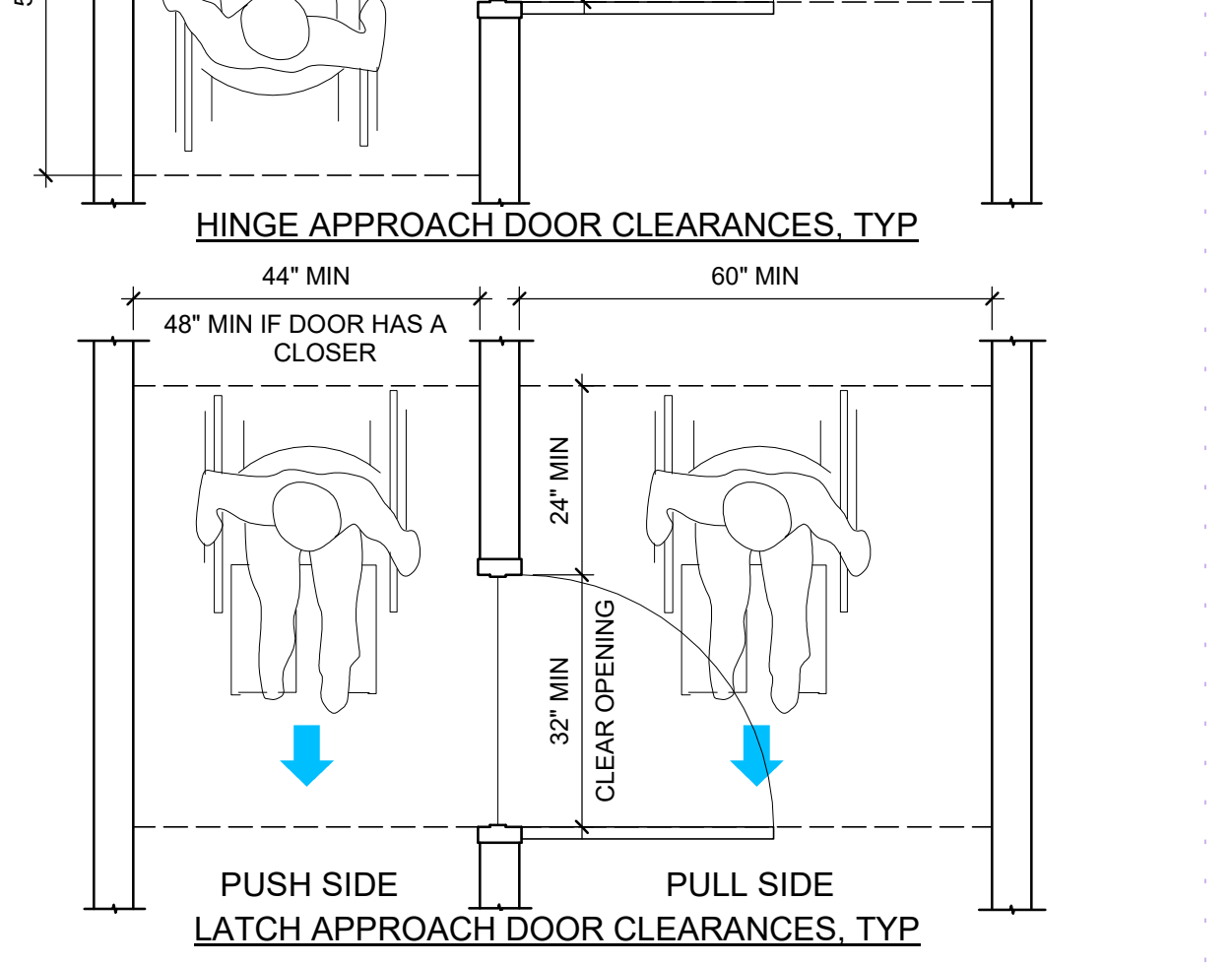
**3** ACCESSIBLE DOOR CLOSER REQUIREMENTS  
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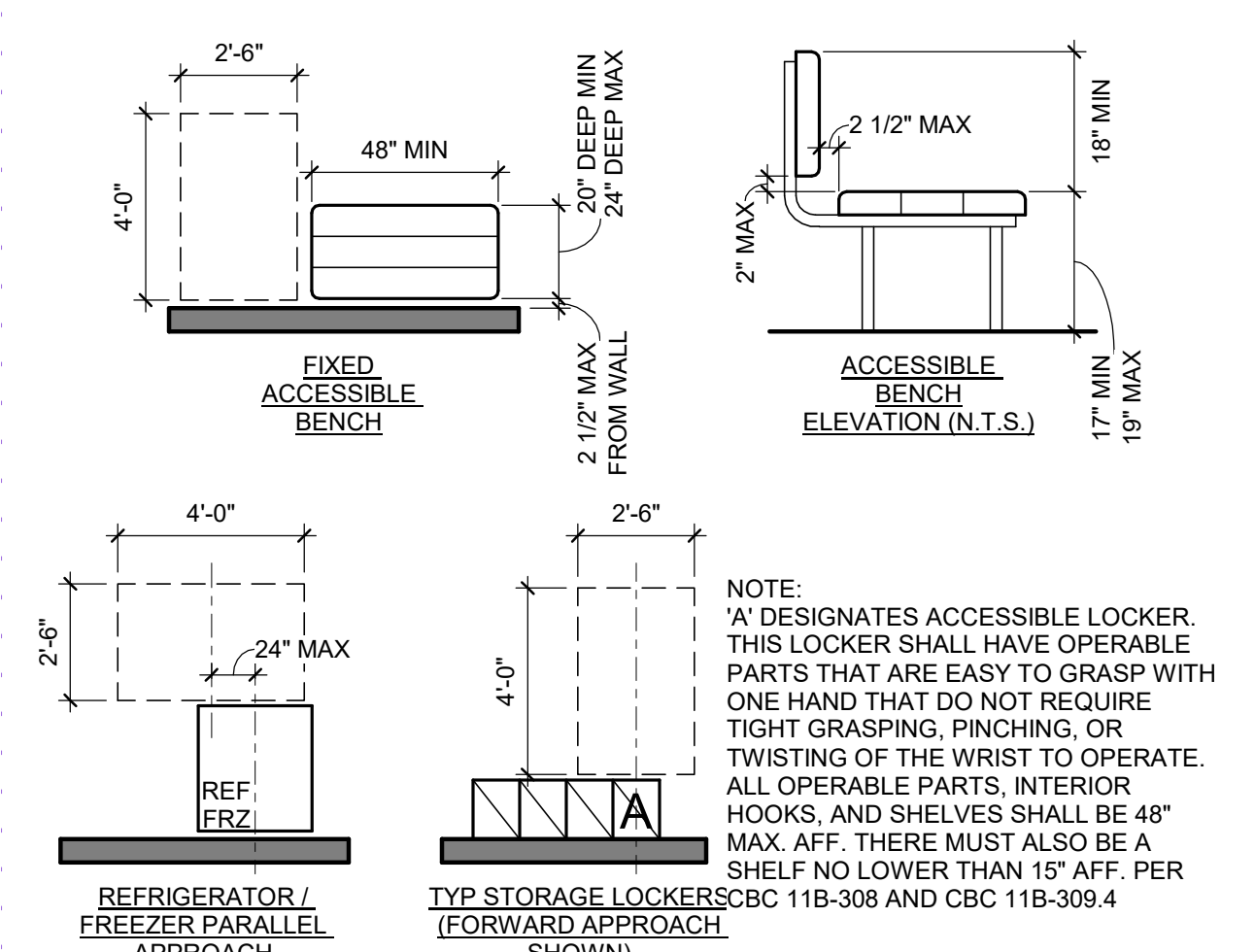
**4** ACCESSIBLE DOOR SURFACE REQUIREMENT  
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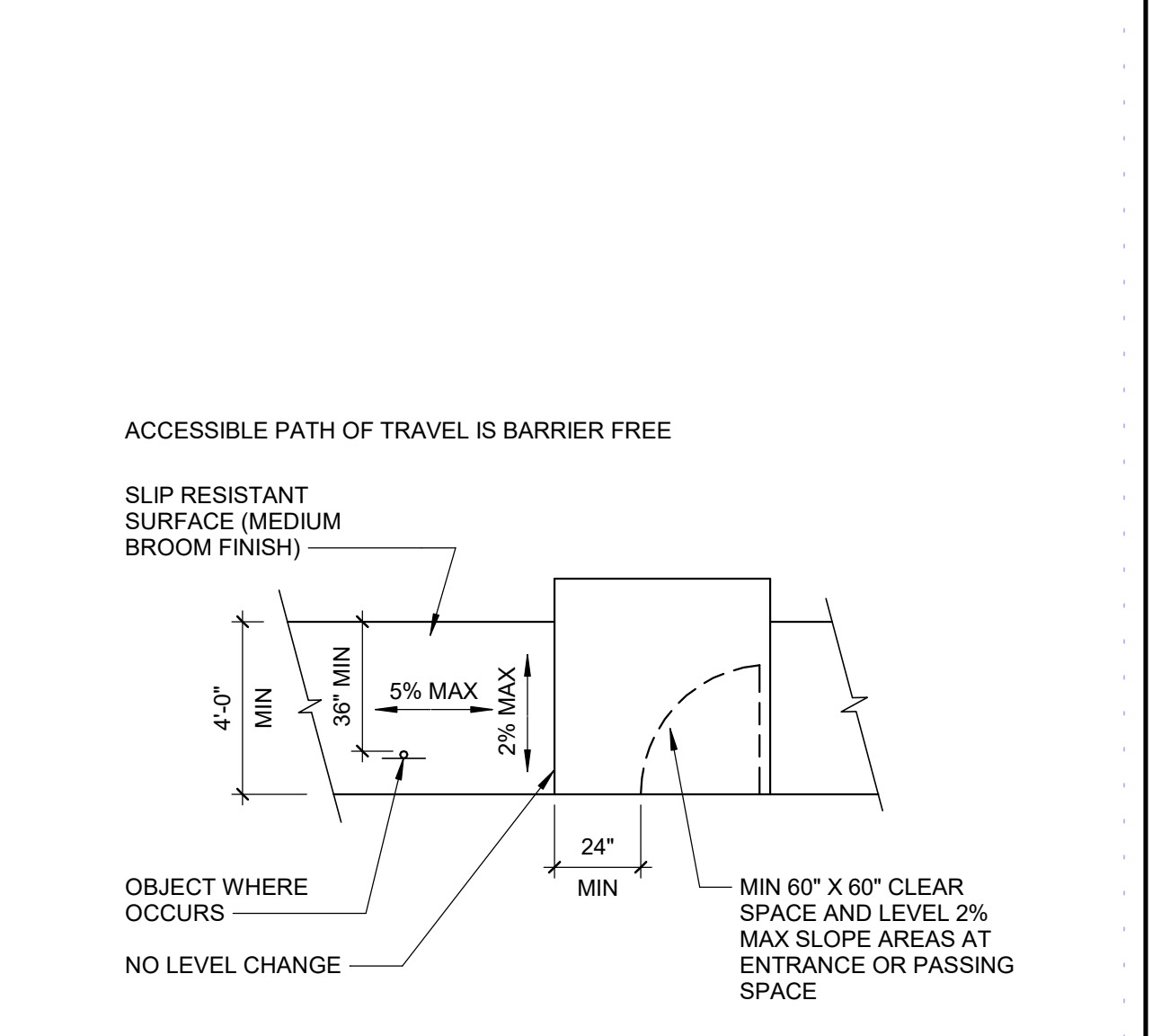
**14** ACCESSIBLE CLEARANCES  
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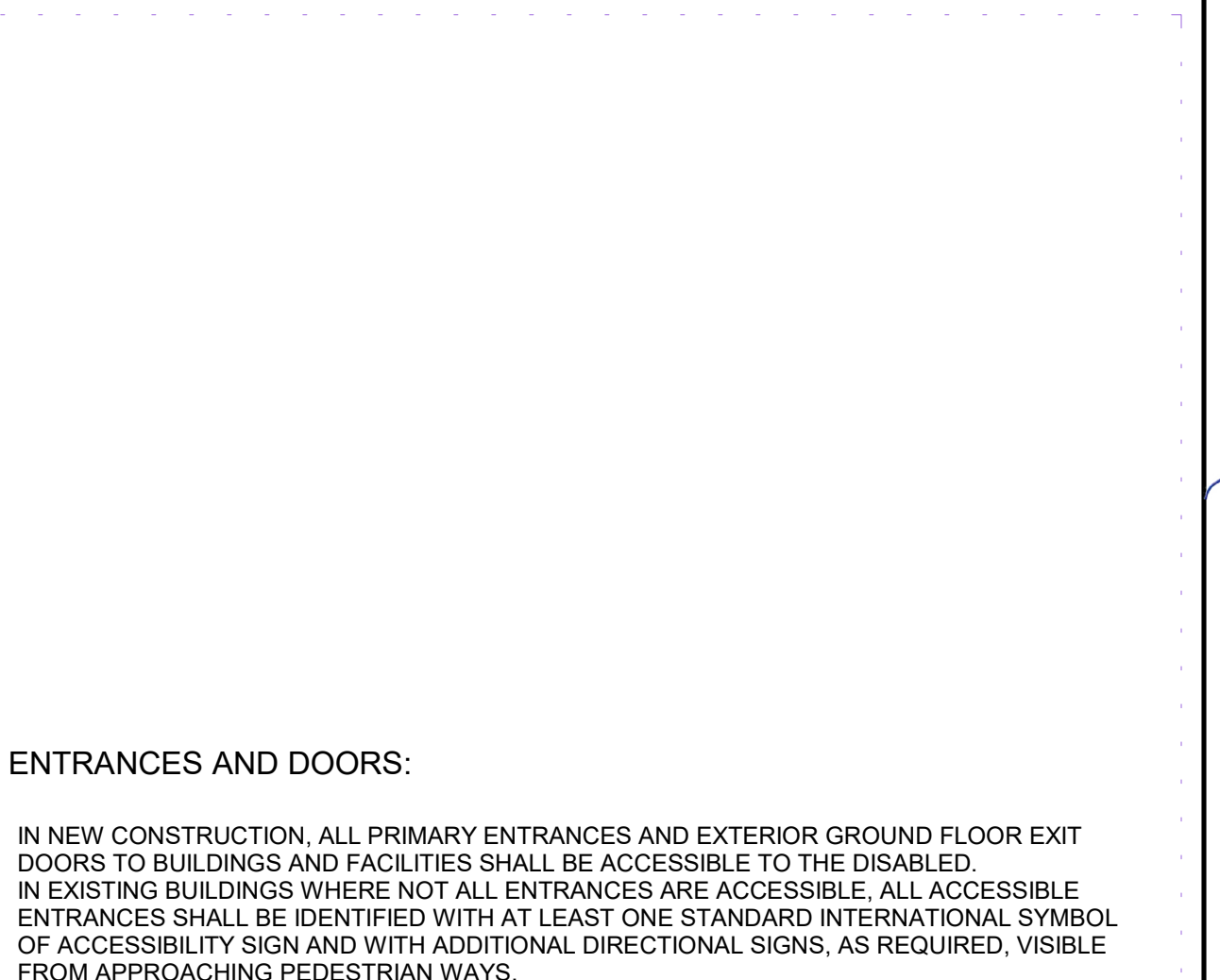
**10** ACCESSIBLE DOOR CLEARANCES  
1\"/>



**14** ACCESSIBLE CLEARANCES  
1\"/>



**17** ACCESSIBLE ROUTE WALK  
1\"/>



**14** ACCESSIBLE CLEARANCES  
1\"/>

- ENTRANCES AND DOORS:**
- IN NEW CONSTRUCTION ALL PRIMARY ENTRANCES AND EXTERIOR GROUND FLOOR EXIT DOORS TO BUILDINGS AND FACILITIES SHALL BE ACCESSIBLE TO THE DISABLED.
  - 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.
  - 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 IN THE DOORWAY IS NOT LESS THAN 32 INCHES.
  - 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.
  - HAND ACTIVATED DOOR OPENING HARDWARE SHALL BE CENTERED BETWEEN 34 INCHES MINIMUM AND 44 INCHES MAXIMUM ABOVE THE FLOOR.
  - 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.
  - 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.
  - 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.
  - 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.
  - 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."

- 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.
- PROVIDE A MINIMUM CLEAR SPACE 60 INCHES WIDE AT ALCOVES GREATER THAN 15 INCHES DEEP AND DESIGNED FOR SIDE APPROACH.
- PROVIDE A MINIMUM CLEAR SPACE 36 INCHES WIDE AT ALCOVES GREATER THAN 24 INCHES DEEP AND DESIGNED FOR FRONT APPROACH.

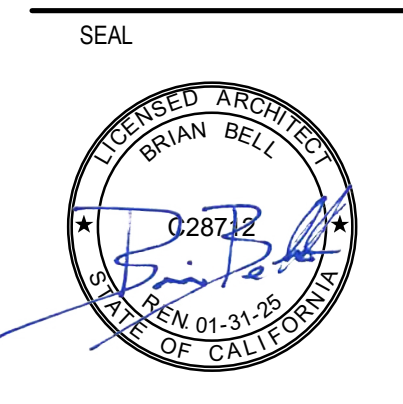
- HAZARDOUS AND PROJECTING OBJECTS**
- OBJECTS PROJECTING FROM WALLS WITH THEIR LEADING EDGES BETWEEN 27 INCHES AND 80 INCHES ABOVE THE FINISHED FLOOR SHALL PROTRUDE NO MORE THAN 4" INTO WALKS, HALLS, CORRIDORS, PASSAGEWAYS, OR AISLES.
  - OBJECTS MOUNTED WITH THEIR LEADING EDGES AT OR BELOW 27 INCHES ABOVE THE FINISHED FLOOR MAY PROTRUDE ANY AMOUNT.
  - FREE-STANDING OBJECTS MOUNTED ON POSTS / PYLONS MAY OVERHANG 12 INCHES MAXIMUM FROM 27 INCHES TO 80 INCHES ABOVE THE GROUND OR FINISHED FLOOR.
  - PROTRUDING OBJECTS SHALL NOT REDUCE THE REQUIRED CLEAR WIDTH OF AN ACCESSIBLE ROUTE OR MANEUVERING SPACE.
  - 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**
- SURFACE SLOPES OF ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED 1/4 INCH PER FOOT (2% GRADIENT) IN ANY DIRECTION.
  - ACCESSIBLE PARKING SPACES SHALL BE LOCATED SO AS NOT TO REQUIRE USERS TO TRAVEL OR WALK BEHIND ANY PARKING SPACE OTHER THAN THEIR OWN.
  - IN EACH PARKING AREA, A BUMPER OR CURB SHALL BE PROVIDED AND LOCATED TO PREVENT ENCROACHMENT OF CARS OVER THE REQUIRED WIDTH OF WALKWAYS.
  - 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**
- 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\"/>



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www.lionakis.com  
CONSULTANT



PROJECT  
**LUTHER BURBANK HIGH SCHOOL  
ATHLETIC FIELDS RENOVATION**

3500 FLORIN ROAD  
SACRAMENTO, CA 95823

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

ISSUED		
MARK	DATE	DESCRIPTION
	09/10/2023	DSA SUBMITTAL
	12/01/2023	BID SET - NOT DSA APPROVED

MANAGEMENT	
LIONAKIS PROJECT NO.	023041
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TITLE  
**ACCESSIBILITY  
REQUIREMENTS**

SHEET  
**G-501**

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

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

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

	<b>PROPOSED GRADING &amp; DRAINAGE SYMBOLS:</b>		<b>PROPOSED SANITARY SEWER SYMBOLS:</b>

**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)

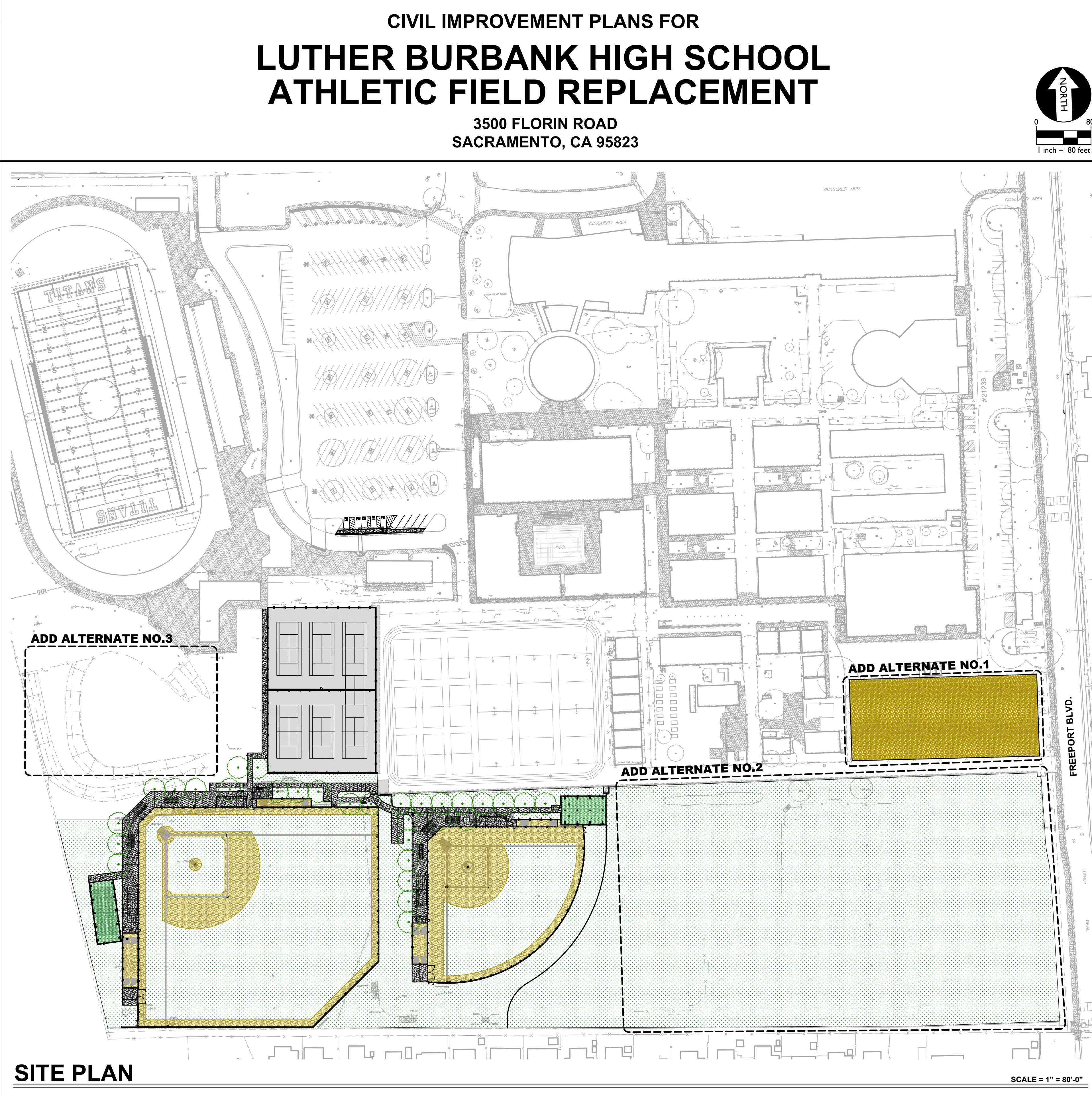
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 CCR  
(2020 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS)

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

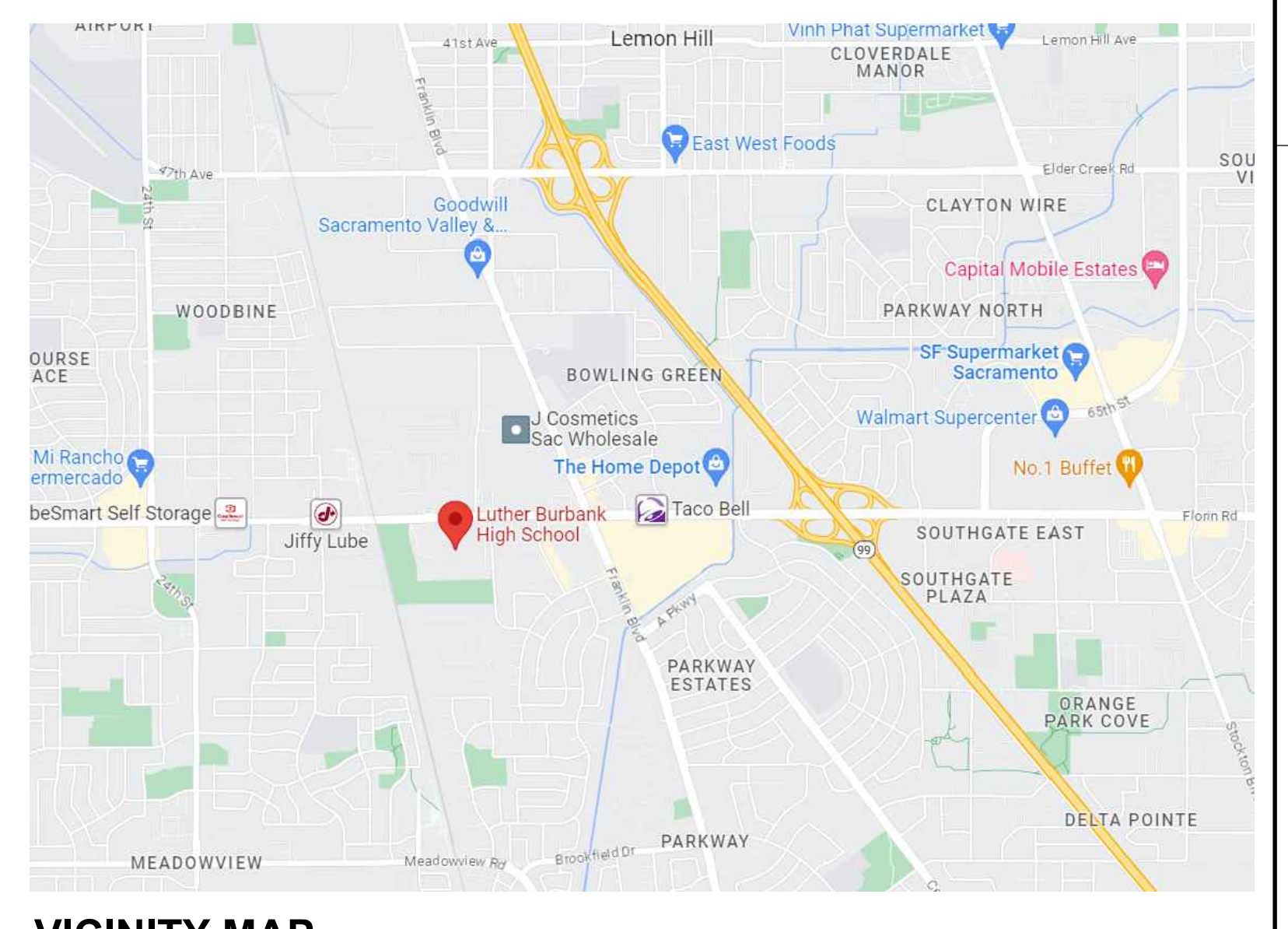
2022 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 CCR  
(2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)

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



**GENERAL NOTES**

- 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.
- 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 CANNOT BE HELD RESPONSIBLE FOR SUCH CONDITIONS WHICH ARE A RESULT OF ERRORS IN SURVEYING, OR IMPROPER CONSTRUCTION.
- 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.
- 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.
- 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.
- 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 CONTRACTOR'S RESPONSIBILITY TO DETERMINE, AND INCLUDE IN HIS/HER CONTRACT, ALL MEANS AND METHODS NECESSARY TO PERFORM A COMPLETE AND ACCEPTABLE JOB.
- WHERE IMPROVEMENTS LIE WITHIN AN EXISTING DEVELOPED AREA, CONTRACTOR SHALL USE CAUTION WHEN ACCESSING THE SITE THROUGH THESE EXISTING IMPROVEMENTS. IT IS THE CONTRACTOR'S 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.
- 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.
- 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 TO 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 PAWING.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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 ALLOW FOR SUCH STRUCTURE. THAT REBAR ADJUSTMENT MAY NOT BE SPECIFICALLY SHOWN ON PLANS.
- 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.
- 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.
- ALL CONTRACTION/CONSTRUCTION JOINTS "C/J" 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.
- 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.
- 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 CONSTRUCTION.
- 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.
- 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.
- REPAIR OR PATCHING OF GALVANIZED METALS, SUCH AS AFTER WELDING GALVANIZED COMPONENTS, SHALL BE MADE USING A ZINC COMPOSITION "HOT STOCK" APPLICATION PER ASTM A 780-01. GALVANIZING PAINTS WILL NOT BE ALLOWED.



**SHEET INDEX**

NO.	SHEET TITLE	NO.	SHEET TITLE
C101	CIVIL COVER SHEET	CK001	EROSION CONTROL NOTES & DETAILS
VF001	SURVEY INFORMATION SHEET	CK101	EROSION CONTROL PLAN
VF101A	PARTIAL TOPOGRAPHIC SURVEY		
VF101B	PARTIAL TOPOGRAPHIC SURVEY	CS001	SITE DETAILS
VF101C	PARTIAL TOPOGRAPHIC SURVEY	CS002	SITE DETAILS
		CS003	SITE DETAILS
		CS004	SITE DETAILS
CD101A	SURFACE DEMOLITION PLAN		
CD101B	SURFACE DEMOLITION PLAN		
CD101C	SURFACE DEMOLITION PLAN		
CD101D	SURFACE DEMOLITION PLAN		
CD101E	SURFACE DEMOLITION PLAN		
CD102A	UTILITY DEMOLITION PLAN		
CD102B	UTILITY DEMOLITION PLAN		
CD102C	UTILITY DEMOLITION PLAN		
CS102A	HORIZONTAL CONTROL PLAN		
CS001	CONSTRUCTION POINT LIST		
CG101	ENGINEERED FILL PLAN		
CG102A	GRADING PLAN		
CG102B	GRADING PLAN		
CG102C	GRADING PLAN		
CG102D	GRADING PLAN - ADD ALTERNATE NO. 3		
CU101A	DRAINAGE AND SEWER PLAN		
CU101B	DRAINAGE AND SEWER PLAN		
CP101A	PAVING PLAN		
CP101B	PAVING PLAN		
CP102	STRIPING PLAN		

**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:

- RESIDUAL CHLORINE IS FIELD MEASURED AT <0.019 MG/L;
- TURBIDITY MUST NOT EXCEED 100 NTU; OR, MUST BE LESS THAN THAT WHICH IS MEASURED IN THE RECEIVING WATER + 20%; AND,
- 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:

- 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
- DE-CHLORINATE AND DISCHARGE TO LAND - RESIDUAL CHLORINE MUST BE FIELD MEASURED AT <0.019 MG/L;
- DE-CHLORINATE AND PETITION THE REGIONAL WATER BOARD FOR EITHER A LOW THREAT PERMIT OR A WAIVER THERETO

**GENERAL PAVING SURFACE NOTES:**

- 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.
- 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.
- ALL PAVING WITHIN 5 FEET OF BUILDINGS SHALL SLOPE AWAY FROM FOUNDATIONS AT LEAST 1%.
- THE CONTRACTOR SHALL ENSURE THAT A 5'-0" MIN. (50) 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 OCCURRED.
- PAVEMENT ADJOINING BUILDINGS NOT INTENDED FOR PEDESTRIAN TRAVEL SHALL BE SLOPED NO LESS THAN 2% IN ACCORDANCE WITH THE CBC SECTION 18044.4.
- 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 18044.4 FOR A MINIMUM DISTANCE OF 10 FEET, AND NOT MORE THAN 1:48 (2.08%) IN ACCORDANCE WITH CBC SECTION 11B-403.3.

MANAGEMENT

LIONAKIS PROJECT NO:	023041
DSA APPLICATION NO:	02-121593
CLIENT PROJECT NO:	####
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TITLE

## CIVIL COVER SHEET

SHEET

# C101

**LIONAKIS**

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

CONSULTANT

**WARREN CONSULTING ENGINEERS, INC.**  
117 WINDFIELD WAY, SUITE 110  
EL CERRITO HILLS, CA 94530 | (916) 968-1870

PROJECT  
**LUTHER BURBANK HIGH SCHOOL  
ATHLETIC FIELDS RENOVATION**

3500 FLORIN ROAD  
SACRAMENTO, CA 95823

CLIENT  
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

5735 47TH AVENUE, SACRAMENTO, CA 95824

MARK	DATE	DESCRIPTION
-	8.10.2023	DSA SUBMITTAL
-	10.16.2023	BID SET - NOT DSA APPROVED

ISSUED

MARK	DATE	DESCRIPTION
-	8.10.2023	DSA SUBMITTAL
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MANAGEMENT

LIONAKIS PROJECT NO:	023041
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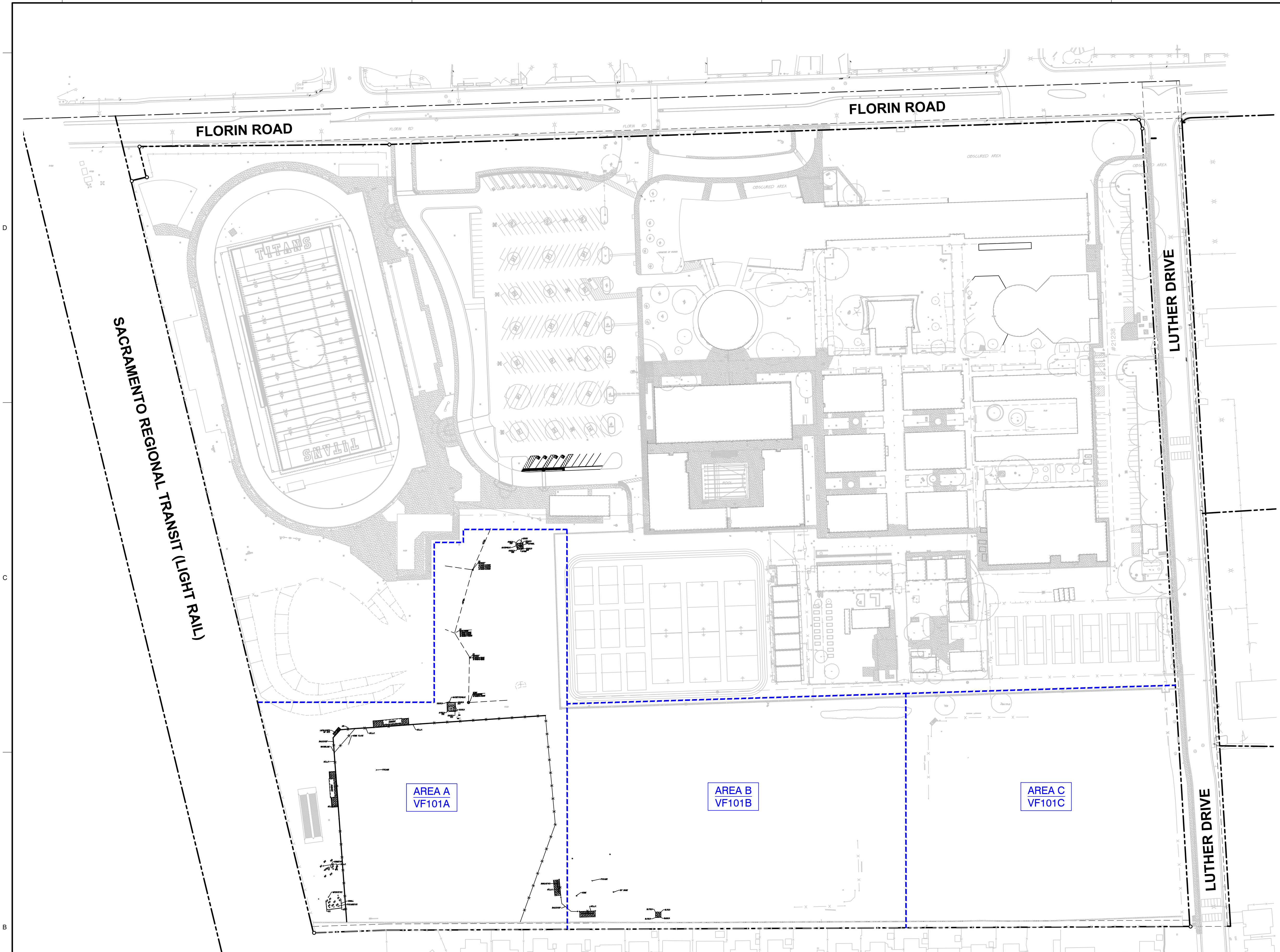
TITLE

## CIVIL COVER SHEET

SHEET

# C101

PLOT DATE: 11/27/2023 11:32:38 AM FILE: I:\23-106\CIVIL\DWG\23-106-101-VF101A-C.DWG



**ABBREVIATIONS**

- NOTE: NOT ALL ABBREVIATIONS MAY BE USED ON THESE PLANS.
- AC ASPHALTIC CONCRETE
  - ACC ACCESSIBLE
  - ACU AIR CONDITIONING UNIT
  - AD AREA DRAIN
  - APN ASSESSOR'S PARCEL NUMBER
  - ARV AIR RELEASE VALVE
  - BALL BALL
  - BCM BRASS CAP MONUMENT
  - BFF BACK FLOW PREVENTER
  - BL BUILDING
  - BOL BOLLARD
  - BOV BLOW-OFF VALVE
  - BR BRICK
  - BWF BARBED WIRE FENCE
  - CA CENTERLINE
  - CATY CABLE TELEVISION
  - CIP CAPPED IRON PIPE
  - CLF CHAIN LINK FENCE
  - CMF CORRUGATED METAL PIPE
  - CO CLEANOUT
  - COL COLUMN
  - CONC CONCRETE
  - COND CONDENSATE
  - CPF CONTROL POINT FOUND
  - CPS CONTROL POINT SET
  - CS CONCRETE SURFACE
  - DC DOUBLE DETECTOR CHECK VALVE
  - DF DRINKING FOUNTAIN
  - DG DECOMPOSED GRANITE
  - DI DRAINAGE DITCH
  - DIA DIAMETER
  - DRWY DRIVEWAY
  - DS DOWNPOUT
  - DWG DRAWING
  - EP EDGE OF PAVEMENT
  - ESMT EASEMENT
  - EV ELECTRIC VALVE
  - FA FIRE ALARM
  - FB FIRE BOX
  - FDC FIRE DEPARTMENT CONNECTION
  - FEE FINISHED FLOOR ELEVATION
  - FH FIRE HYDRANT
  - FL FLOWLINE
  - FO FIBER OPTIC
  - FLAS FLAGSTONE
  - F5 FIRE SERVICE
  - GD GRADE BREAK
  - GR GRATE
  - GRB GROUND ROD BOX
  - GROD GROUND ROD
  - GST GATE STOP
  - GV GAS VALVE
  - HD HOSE DIBB
  - HDB HEADER BOARD
  - HPS HIGH PRESSURE
  - HR HANDRAIL
  - HVE HIGH VOLTAGE ELECTRIC
  - HWF HOOD WIRE FENCE
  - ICV INVERT CONTROL VALVE
  - IKR PIPE INVERT ELEVATION
  - JF JOINT UTILITY POLE
  - JT JOINT TRENCH
  - LV LOW VOLTAGE ELECTRIC
  - LNDG LANDING
  - LVE LOW VOLTAGE ELECTRIC
  - MH METAL MANHOLE
  - MS MOW STRIP
  - MSC METAL STORAGE CONTAINER
  - NST NET SCALE
  - OH OVERHEAD
  - OHANG OVERHANG
  - OP OPEN PIPE
  - OPH OLD STEEL POST HOLE
  - PL PLANTER AREA
  - PD PARKING BUMPER
  - PH POSTHOLE
  - PIV POST INDICATOR VALVE
  - PREG POWER POLE
  - PUE PUBLIC UTILITY EASEMENT
  - PV PAVERS
  - PVC POLYVINYL CHLORIDE
  - RUBBER RUBBER
  - RIM MANHOLE RIM ELEVATION
  - ROW RIGHT OF WAY
  - RP REDUCED PRESSURE BACKFLOW ASBLY.
  - RWALL RETAINING WALL
  - RWL RAIN WATER LEADER
  - SB SIGNAL BOX
  - SD STORM DRAIN
  - SDM STORM DRAIN MANHOLE
  - SIG SIGNAL
  - SLS STREET LIGHT
  - SLSB STREET LIGHT BOX
  - SS SANITARY SEWER
  - SSC SANITARY SEWER CLEANOUT
  - SSMH SANITARY SEWER MANHOLE
  - STL STEEL
  - TELEPHONE TELEPHONE
  - TBALL TETHER BALL POLE
  - TBM TEMPORARY BENCHMARK
  - TO TOP OF CURB
  - TOW TOP OF WALL
  - TF TELEPHONE POLE
  - TRW TOP OF RETAINING WALL
  - UG UNDERGROUND
  - UNK UNKNOWN
  - VENT VENT
  - W WATER
  - W/O WITHOUT
  - WD WOOD
  - WLF WROUGHT IRON FENCE
  - WRF WOOD RAIL FENCE
  - TRANSFORMER TRANSFORMER
  - CROSSWALK CROSSWALK

**EXISTING TOPOGRAPHY**

- PROPERTY LINE
- CENTERLINE
- EASEMENT
- PROPERTY CORNER FOUND AS NOTED
- PROPERTY CORNER NOT FOUND OR SET
- △23 TEMPORARY BENCHMARK (SEE TBM LIST FOR INFO)
- SWALE OR DRAINAGE FLOW
- DRAINAGE FLOW
- FENCE (TYPE NOTED)
- TREE (SIZE/TYPE INDICATED)
- SLOPE
- CONTOUR
- CONCRETE SURFACE
- EDGE OF ASPHALT
- EDGE OF BUILDING
- SIGN
- POST OR BOLLARD
- GROUND ELEVATION
- 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)
- STORM DRAIN MANHOLE
- STORM DRAIN CLEANOUT
- DROP INLET
- AREA DRAIN
- RWL RAIN WATER LEADER
- DS DOWNPOUT
- 12"SS SANITARY SEWER LINE (SIZE + DIRECTION OF FLOW)
- 12"SS SANITARY SEWER LINE RECORD INFORMATION
- 12"SS SANITARY SEWER LINE (UNDERGROUND LOCATING)
- SANITARY SEWER MANHOLE
- SANITARY SEWER CLEANOUT
- W WATER LINE (SIZE INDICATED)
- W WATER LINE RECORD INFORMATION
- W WATER LINE (UNDERGROUND LOCATING)
- WATER MANHOLE
- WATER VALVE
- WATER METER
- WATER BOX
- IRRIGATION CONTROL VALVE
- FIRE HYDRANT
- BACKFLOW PREVENTER
- SPRINKLER
- HOSE DIBB
- OH-E OVERHEAD ELECTRIC LINE
- E UNDERGROUND ELECTRIC LINE
- E UNDERGROUND ELECTRIC LINE RECORD INFORMATION
- E UNDERGROUND ELECTRIC LINE (UNDERGROUND LOCATING)
- ELECTRIC MANHOLE
- UTILITY POLE (WITH GUY WIRE)
- ELECTRIC METER
- ELECTRIC BOX
- STREET LIGHTING BOX
- OR LIGHT STANDARD
- SIGNAL LIGHT
- FLOOD LIGHT
- ELECTRICAL OUTLET
- G GAS LINE (SIZE INDICATED)
- G GAS LINE RECORD INFORMATION
- G GAS LINE (UNDERGROUND LOCATING)
- GAS MANHOLE
- GAS VALVE
- GAS METER
- T TELEPHONE LINE
- T TELEPHONE LINE RECORD INFORMATION
- T TELEPHONE LINE (UNDERGROUND LOCATING)
- STORM DRAIN BOX
- TRAFFIC SIGNAL BOX

**BASIS OF BEARING**

IDENTICAL TO R.S. BOOK 16 BOOK 29.

**NOTE:**

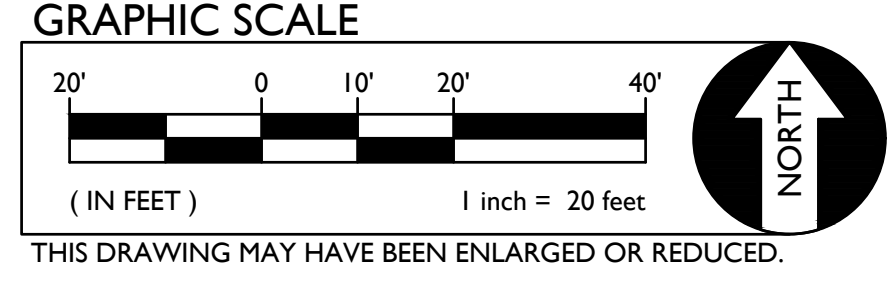
EXISTING UTILITIES BASED ON VISIBLE SURFACE STRUCTURES AND RECORD INFORMATION.

**FEMA INFORMATION**

THE SUBJECT PROPERTY IS LOCATED IN "ZONE X (SHADED)---AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD PER FLOOD INSURANCE RATE MAP 06067C0302H DATED AUGUST 16, 2012

A.P.N.	049-0010-089
BENCHMARK NO.	337-G1A
ELEV.	17.975

HILLI NAIL LIGHT BASE SE CORNER FLORIN ROAD AND MUNSON WAY.



**TBM LIST**

PT	DESCRIPTION	NORTHING	EASTING	ELEV.	PT	DESCRIPTION	NORTHING	EASTING	ELEV.
1	CPS CHISELED "+"	5001.13	11493.11	17.30	123	CPS CHISELED "+"	5674.15	11067.82	16.58
10	CPF MAG NAIL	5000.87	11484.06	17.01	124	CPS CHISELED "+"	5584.15	11145.75	17.84
12	CPS CHISELED "+"	4935.89	11050.77	19.56	125	CPS CHISELED "+"	5515.09	11246.04	17.53
13	CPS CHISELED "+"	5809.98	11444.34	16.83	126	CPS CHISELED "+"	5180.21	11125.44	17.72
14	CPS CHISELED "+"	5060.06	11019.24	17.44	127	CPS CHISELED "+"	5520.80	10985.63	17.79
15	CPS CHISELED "+"	5243.89	10840.92	17.84	128	CPS CHISELED "+"	5322.00	11006.76	17.87
16	CPS CHISELED "+"	5235.96	10601.29	17.83	129	CPS CHISELED "+"	5375.79	10834.58	18.00
17	CPS CHISELED "+"	5529.18	11461.68	17.31	130	CPS CHISELED "+"	5415.27	11101.22	17.92
18	CPS CHISELED "+"	5174.18	10245.30	15.90	131	CPS CHISELED "+"	5433.00	11228.67	17.68
19	CPS CHISELED "+"	4981.52	11194.26	15.22	132	CPS CHISELED "+"	5383.58	10800.72	17.96
20	CPS CHISELED	5507.08	11357.24	16.10	133	CPS CHISELED "+"	5357.66	10773.77	17.82
21	CPS CHISELED "+"	5131.31	11486.10	17.73	134	CPS CHISELED "+"	5357.69	10721.45	16.68
22	CPS CHISELED "+"	4958.19	10497.46	14.82	136	CPS CHISELED "+"	5796.15	10591.74	15.34
23	CPF CHISELED "+"	5627.32	10577.97	14.80	142	CPS CHISELED "+"	5308.68	10276.85	13.32
24	CPS REBAR W/ CAP	5136.48	9965.05	28.36	151	CPS CHISELED "+"	5862.92	10229.96	15.46
25	CPS CHISELED "+"	5789.48	10124.28	15.73	161	CPS MAG NAIL	5232.13	11116.71	17.68
26	CPS CHISELED "+"	5191.04	10143.68	15.31	164	CPS MAG NAIL	5243.36	11108.46	17.86
38	CPS CHISELED "+"	5495.57	10581.40	16.17	167	CPS CHISELED "+"	5306.65	11106.44	17.88
50	CPS RR SPIKE	5829.97	10573.75	14.70	170	CPS CHISELED "+"	5339.00	11104.94	17.88
53	CPS CHISELED	5631.62	10547.52	15.32	185	CPS CHISELED "+"	5349.60	11290.57	17.81
56	CPS CHISELED	5797.00	10869.08	17.64	190	CPS CHISELED "+"	5339.20	11125.75	17.80
59	CPS CHISELED "+"	5809.46	11313.27	17.77	202	CPS CHISELED "+"	5229.98	10873.33	17.88
65	CPF CHISELED "+"	5903.87	11379.00	16.14	204	CPS CHISELED "+"	5814.58	10492.11	15.04
73	CPS CHISELED "+"	5500.81	10750.69	17.89	269	CPS CHISELED "+"	5958.66	10041.57	15.59
74	CPS CHISELED "+"	5495.57	10581.40	16.17	270	CPS CHISELED "+"	6011.47	11440.02	17.68
75	CPS CHISELED "+"	5514.80	11099.23	17.93	274	CPS CHISELED "+"	5085.61	11057.27	17.87
76	CPS CHISELED "+"	5507.24	10871.32	17.89	275	CPS CHISELED "+"	5143.17	11006.86	17.30
79	CPS CHISELED	5514.80	11099.23	17.93	281	CPS 1\2 RERAR	5912.16	11775.29	17.41
82	CPS RR SPIKE	5524.88	11320.68	17.05	438	CPS CHISELED "+"	5495.57	10581.40	16.17
101	CPS CHISELED "+"	5208.84	10203.29	15.44	479	CPS CHISELED "+"	5514.80	11099.23	17.93
102	CPS PICKER	4958.74	10365.30	15.33	922	CPS MAG NAIL	5825.13	9635.87	20.67
120	CPS CHISELED "+"	5369.12	10597.93	17.91	923	CPS MAG NAIL	5816.22	9700.78	21.00
121	CPS CHISELED "+"	5581.11	10817.82	16.02	925	CPS MAG NAIL	6259.53	8791.62	14.41
122	CPS CHISELED "+"	5164.81	11370.84	16.14					

**LIONAKIS**

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P 916.558.1900  
www.lionakis.com

CONSULTANT

**WC**

WARREN CONSULTING ENGINEERS, INC.  
1117 WINDFIELD WAY, SUITE 110  
EL CORONADO HILLS, CA 95730 (916) 985-1870

REGISTERED PROFESSIONAL ENGINEER  
ANTHONY J. TASSANO  
NO. C74586  
STATE OF CALIFORNIA  
1102023

PROJECT  
**LUTHER BURBANK HIGH SCHOOL  
ATHLETIC FIELDS RENOVATION**

3500 FLORIN ROAD  
SACRAMENTO, CA 95823

CLIENT  
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

5735 47TH AVENUE, SACRAMENTO, CA 95824

ISSUED	MARK	DATE	DESCRIPTION
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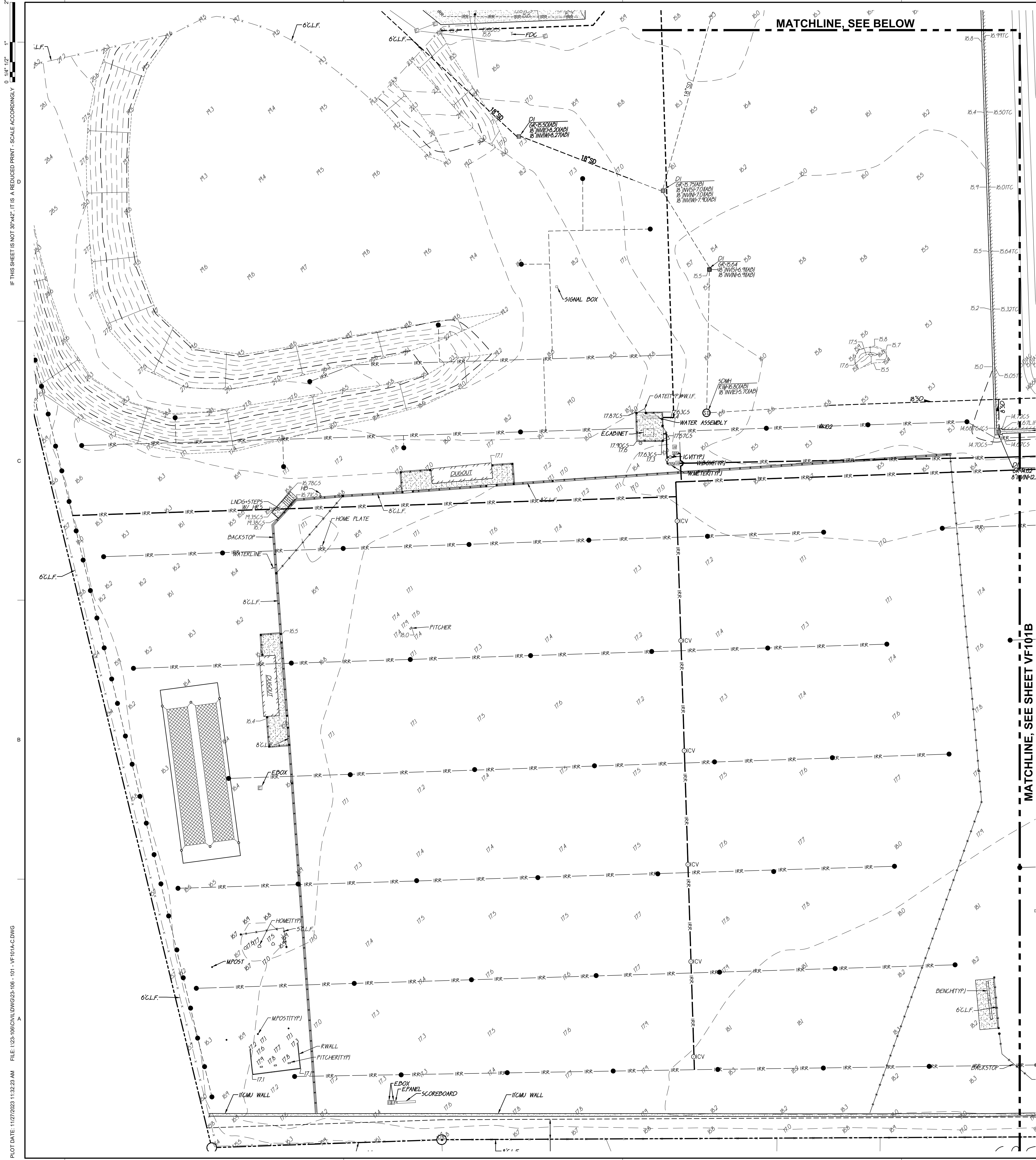
MANAGEMENT

LIONAKIS PROJECT NO. 023041  
DSA APPLICATION NO. 02-121593  
CLIENT PROJECT NO. #####  
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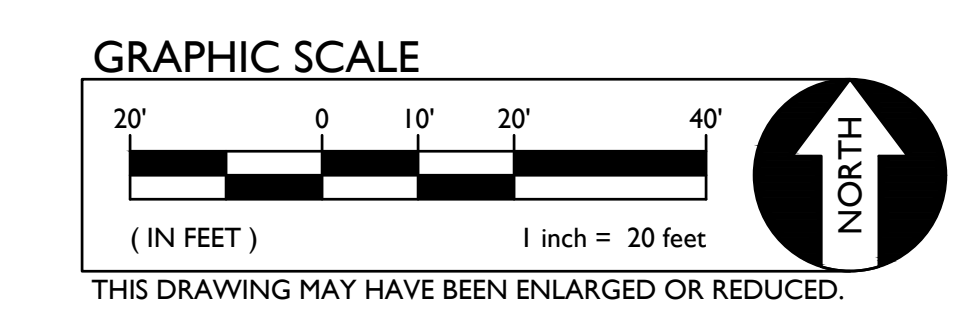
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**SURVEY INFORMATION  
SHEET**

SHEET  
**VF001**

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SEE SHEET VF001 FOR ABBREVIATIONS  
BENCHMARKS AND GENERAL NOTES



**EXISTING UTILITIES**

- 18"SD - STORM DRAIN LINE (SIZE + DIRECTION OF FLOW)
- 12"SD - STORM DRAIN LINE (RECORD INFORMATION)
- 12"SD - STORM DRAIN LINE (UNDERGROUND LOCATING)
- ⊙ - STORM DRAIN MANHOLE
- - STORM DRAIN CLEANOUT
- - DROP INLET
- - AREA DRAIN
- - R/WL - RAIN WATER LEADER
- - DS - DOWNSPOUT
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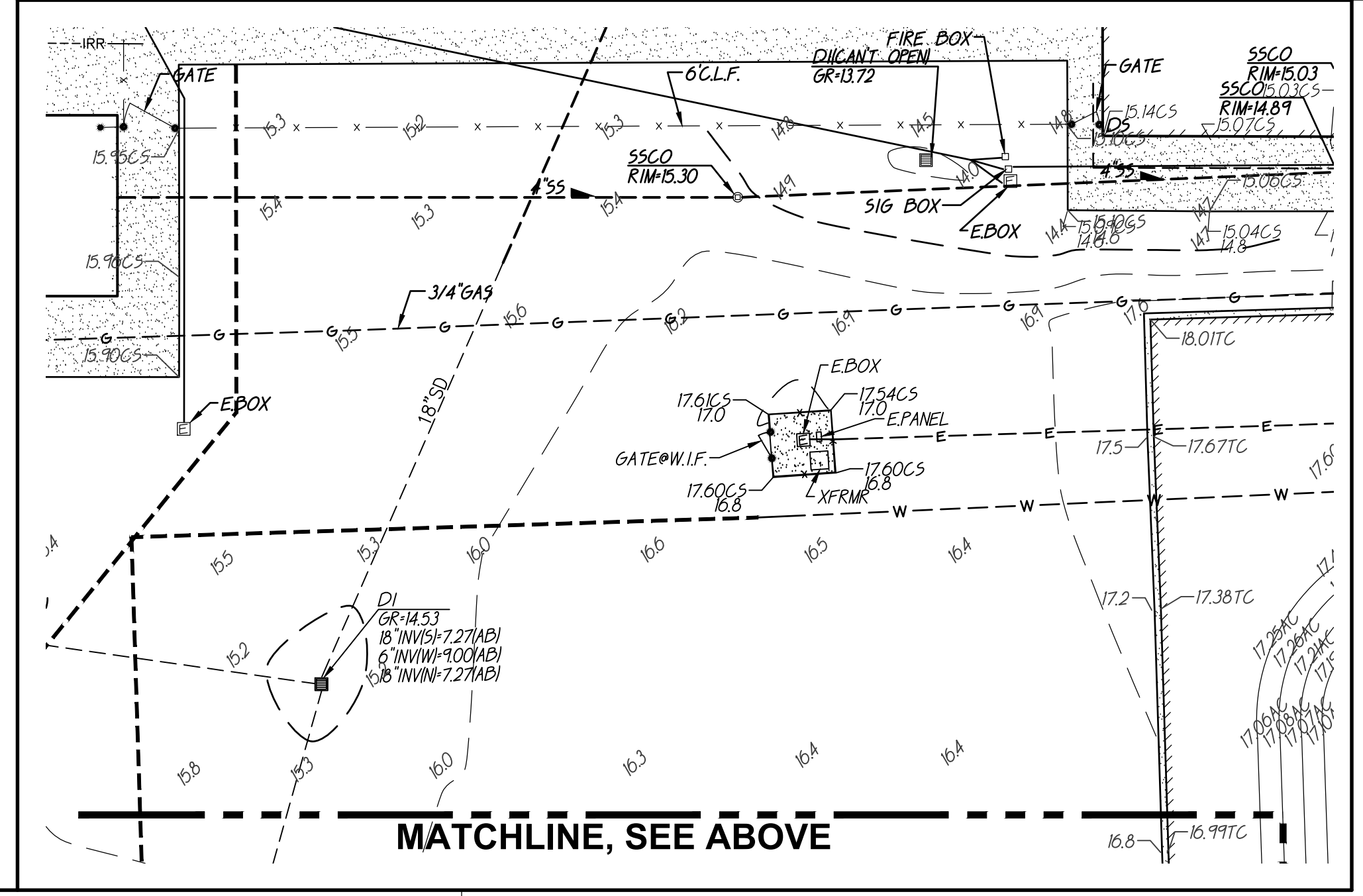
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TITLE  
**PARTIAL TOPOGRAPHIC  
SURVEY**

AREA A

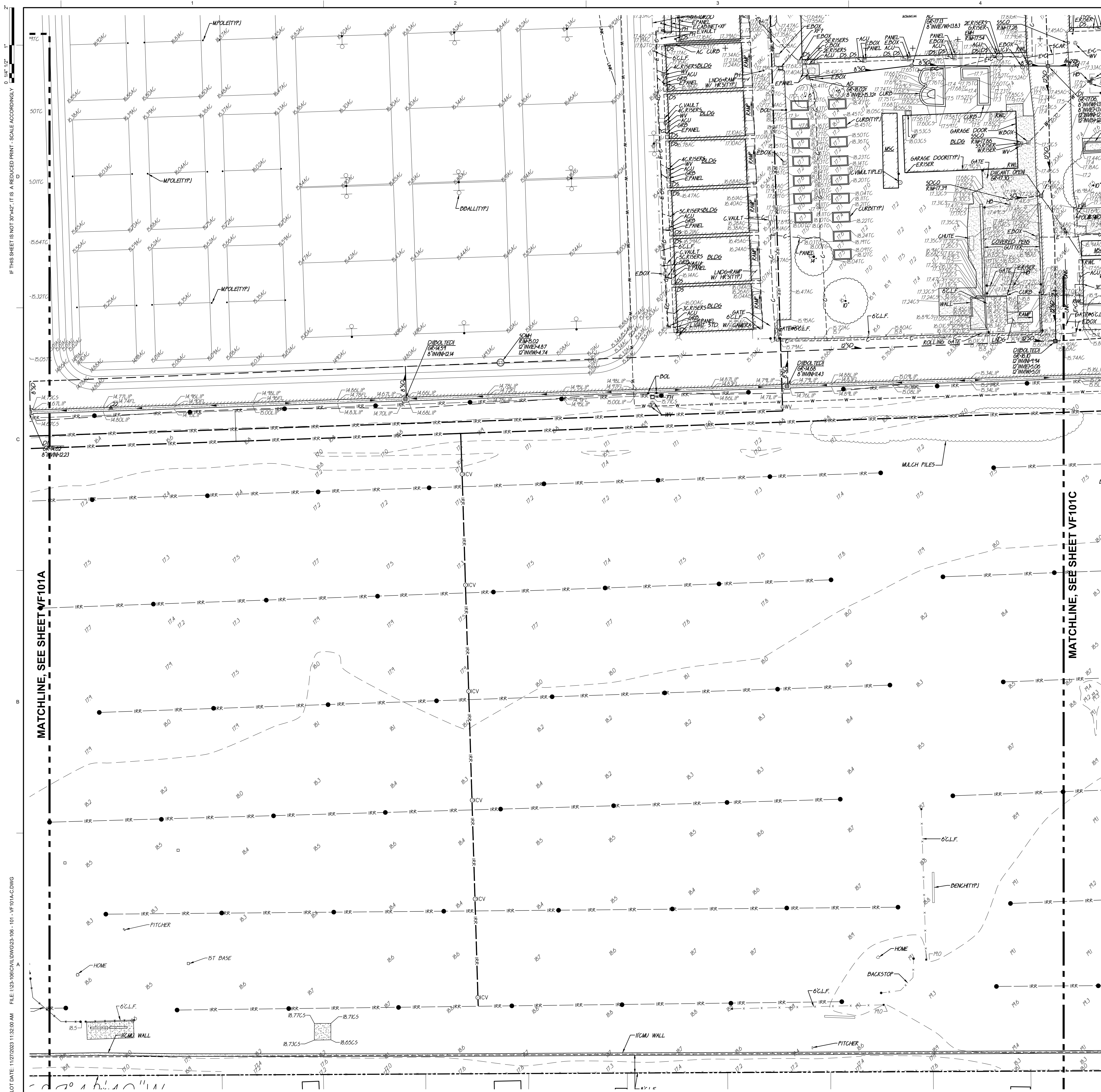
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**VF101A**



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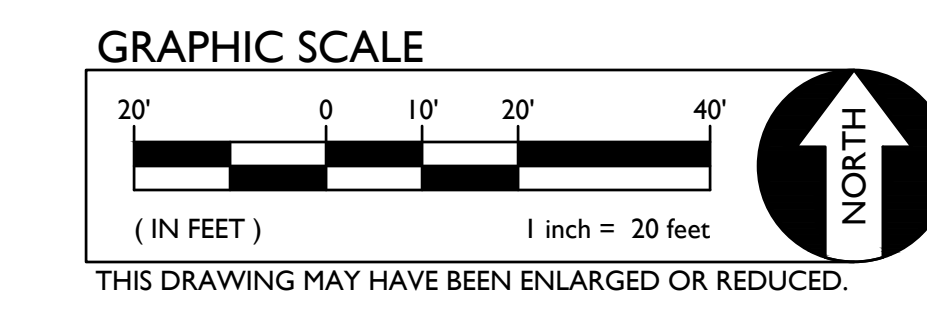
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SEE SHEET VF001 FOR ABBREVIATIONS  
BENCHMARKS AND GENERAL NOTES



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**WC**  
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1117 WINDFIELD WAY, SUITE 110  
EL CORRALO HILLS, CA 95730 (916) 985-1870

SEAL

PROJECT  
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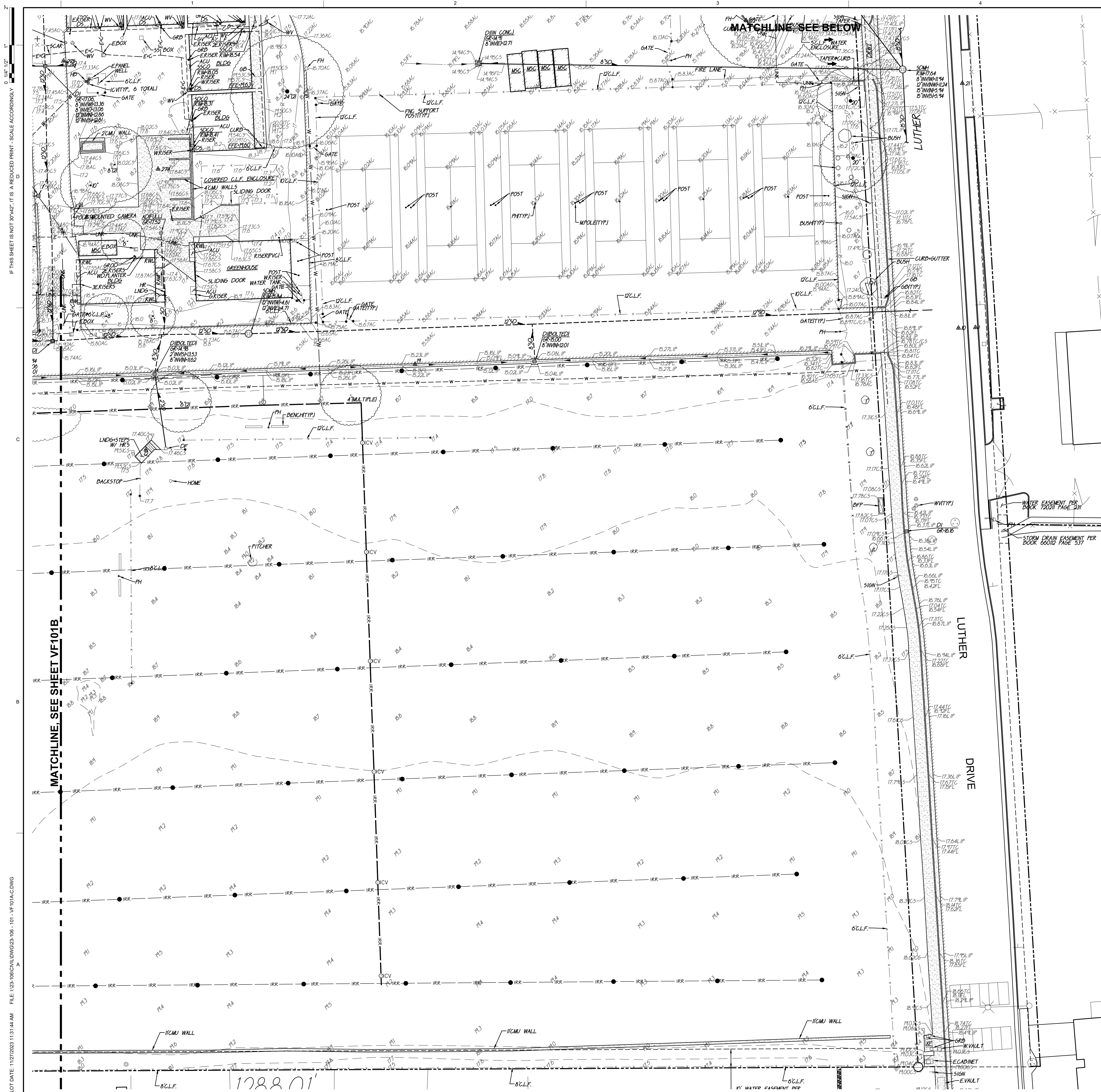
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TITLE  
**PARTIAL TOPOGRAPHIC  
SURVEY**

AREA B

SHEET  
**VF101B**



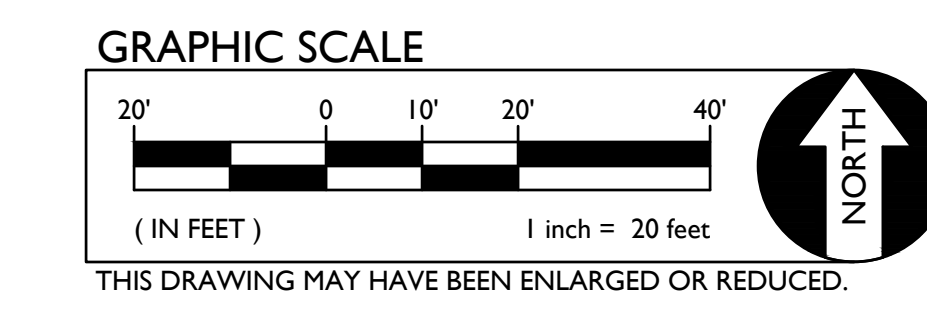
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CONSULTANT

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 ANTHONY J. TASSANO  
 No. C14896  
 State of California  
 1102023

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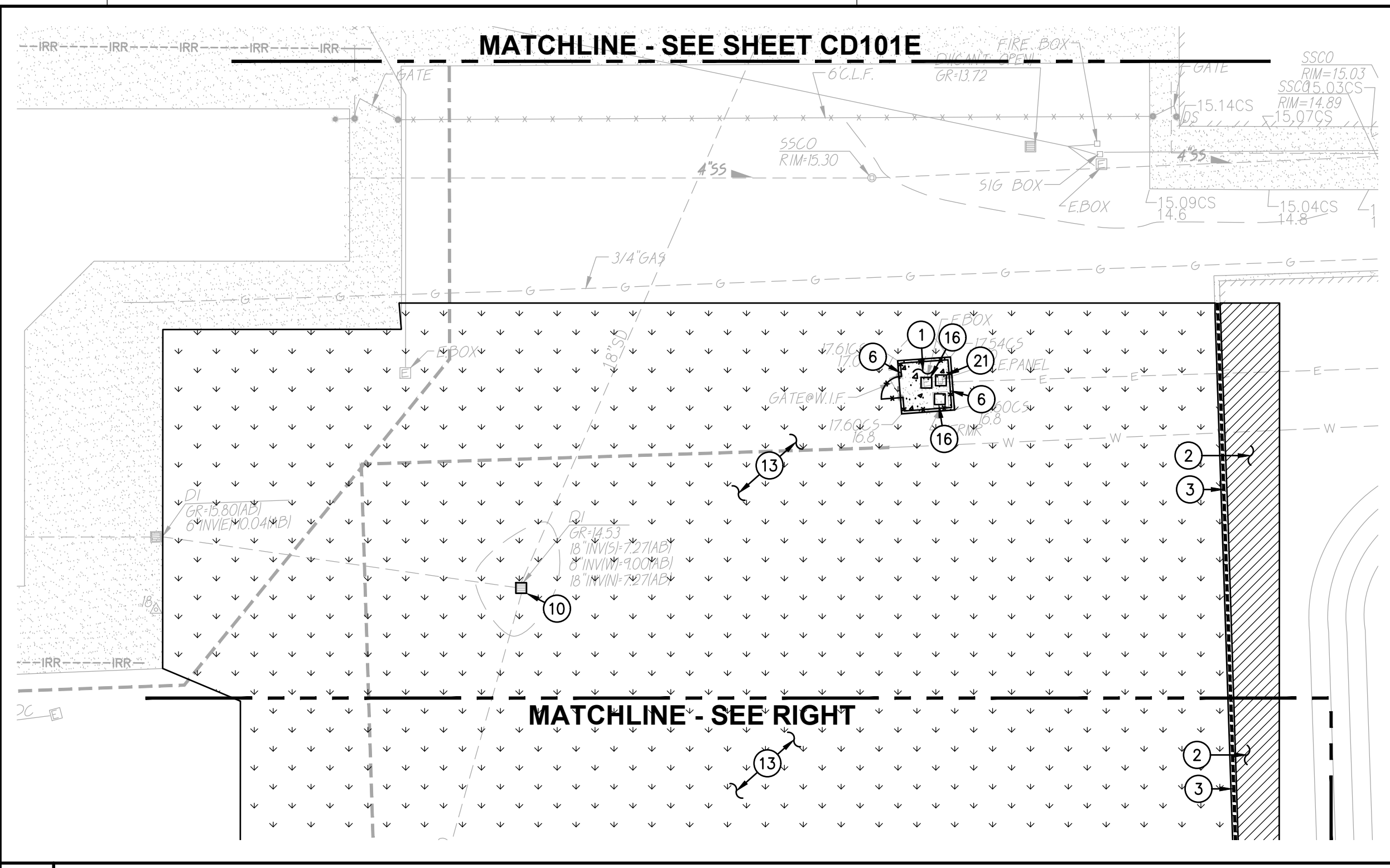
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SHEET  
**VF101C**

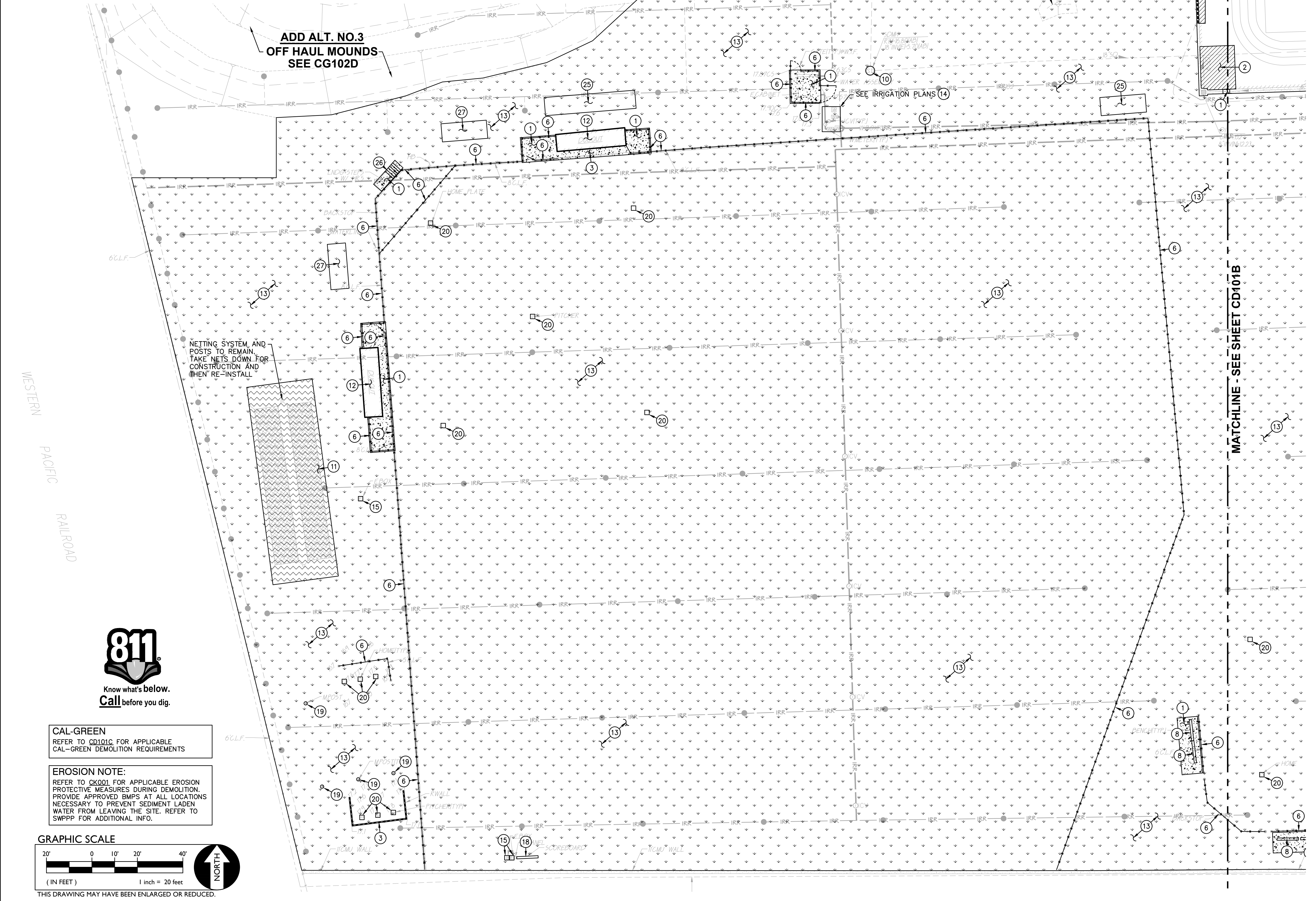
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**2 DEMOLITION PLAN**



**1 DEMOLITION PLAN**

- 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 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. NOT 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 LIMITING 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
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.
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  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.
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  10. REMOVE EXISTING DRAIN INLET/MANHOLE. SEE UTILITY DEMOLITION PLAN FOR ADDITIONAL INFORMATION.
  11. REMOVE EXISTING SYNTHETIC TURF. REMOVE NAILERS AND ANY WOOD OR CONCRETE CURBS. SEE PAVING PLAN CP101A, AND LANDSCAPE PLANS FOR NEW.
  12. DISCONNECT, DISMANTLE AND REMOVE EXISTING DUGGOUT 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.
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  26. REMOVE EXISTING STEPS AND RAILINGS.
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**LIONAKIS**

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P 916.558.1900  
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CONSULTANT

**WC** REGISTERED PROFESSIONAL ENGINEER  
ANTHONY J. TASSANO  
No. C14886  
EL CORRALO HILLS, CA 95762 | (916) 988-9170

PROJECT  
**LUTHER BURBANK HIGH SCHOOL  
ATHLETIC FIELDS RENOVATION**

3500 FLORIN ROAD  
SACRAMENTO, CA 95823

CLIENT  
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

5735 47TH AVENUE, SACRAMENTO, CA 95824

ISSUED		
MARK	DATE	DESCRIPTION
-	8.10.2023	DSA SUBMITTAL
-	12/01/2023	BID SET - NOT DSA APPROVED

MANAGEMENT		
LIONAKIS PROJECT NO.	023041	
DSA APPLICATION NO.	02-121593	
CLIENT PROJECT NO.	####	
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TITLE  
**SURFACE DEMOLITION  
PLAN**

**AREA A**

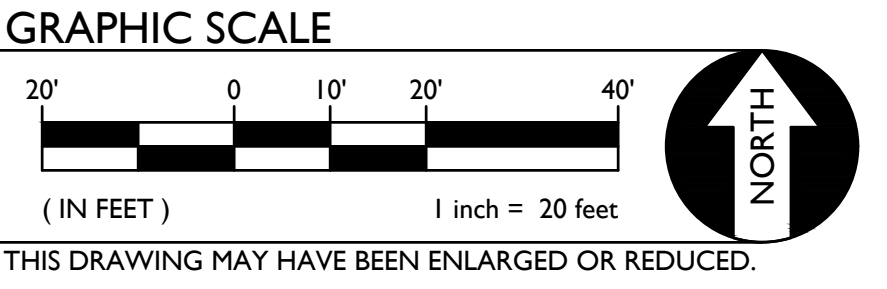
SHEET  
**CD101A**

PLOT DATE: 11/28/2023 6:34:37 PM FILE: I:\23-106\CIVIL\DWG\23-106-102 - CD101A.C.DWG

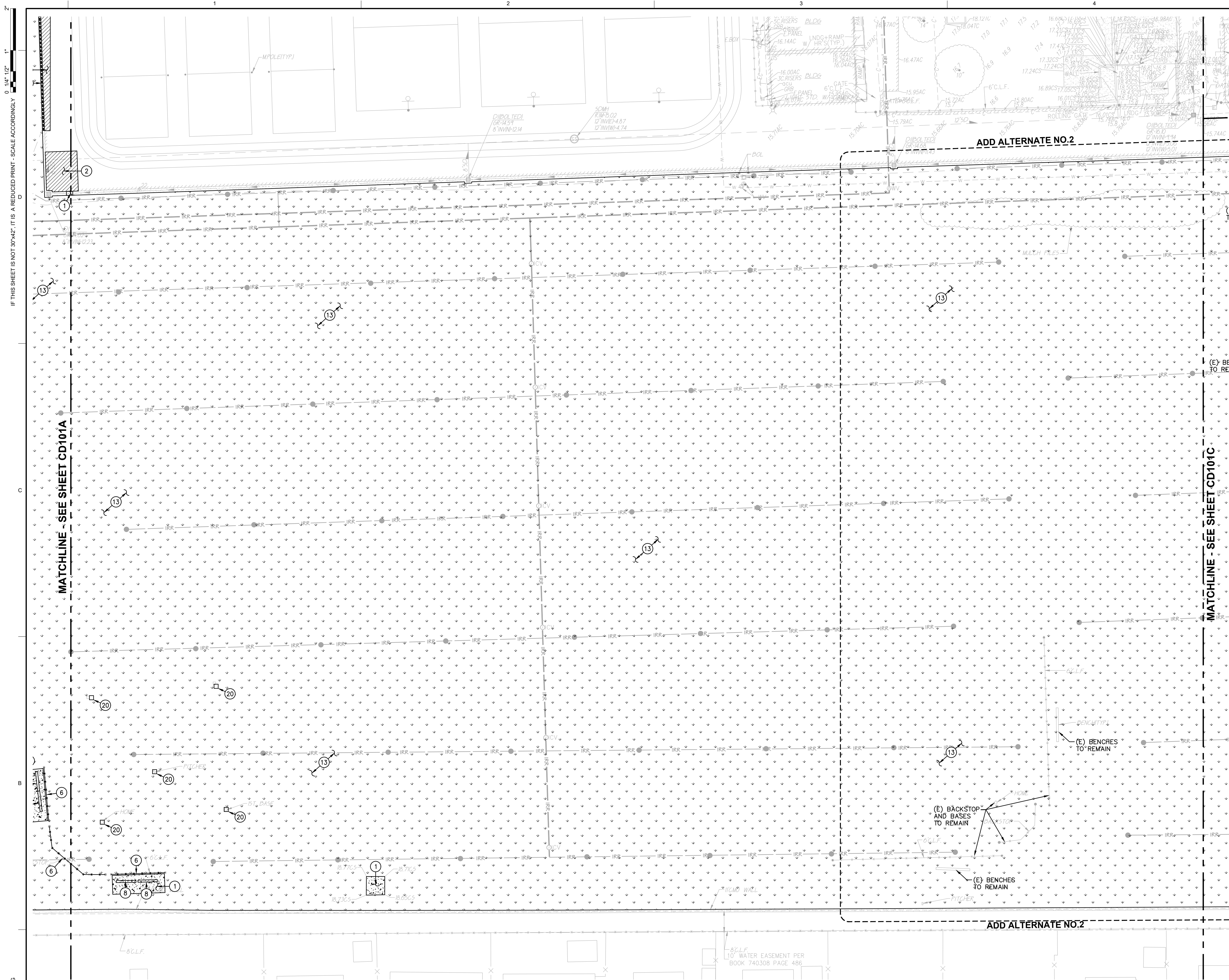


**CAL-GREEN**  
REFER TO CD101C FOR APPLICABLE CAL-GREEN DEMOLITION REQUIREMENTS

**EROSION NOTE:**  
REFER TO CD001 FOR APPLICABLE EROSION PROTECTIVE MEASURES DURING DEMOLITION. PROVIDE APPROVED BMPs AT ALL LOCATIONS NECESSARY TO PREVENT SEDIMENT LOADING WATER FROM LEAVING THE SITE. REFER TO SWPPP FOR ADDITIONAL INFO.



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- 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 MAY 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 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.

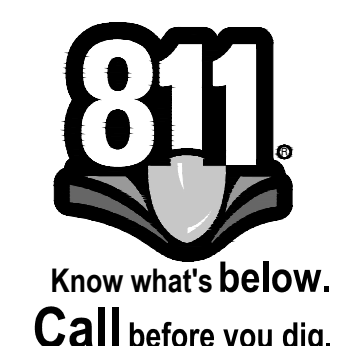
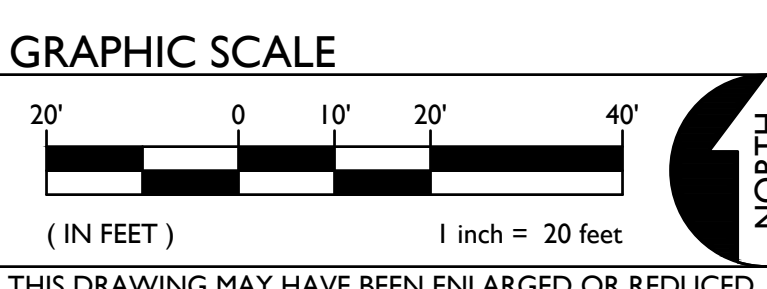
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  27. REMOVE EXISTING BLEACHERS.

**Storage Container Use and Placement Limitations**

1. The maximum size is 10' wide by 60' long.
2. The maximum height is 10'.
3. They are not used to store hazardous materials exceeding the exempted quantities as indicated on California Building Code (CBC) Tables 307.1(1) and 307.1(2). The school district is responsible for contacting the local regulating authority regarding any necessary storage and use permits.
4. They are not stacked upon each other or elevated by a substructure.
5. They are placed directly on even grade (not sloping more than 1/4:12) and at a distance of five feet or more away from the top of any descending inclination having slope greater than 1:12.
6. They are not placed in fire access lanes.
7. They are maintained to ensure their structural integrity is not compromised.
8. They are not modified by the addition of doors or windows.
9. They are located a minimum of 20 feet from any building.
10. They shall not be placed within any building's required side yard setback.
11. They shall be placed a minimum of five feet from property lines adjoining commercial, industrial or residential zoned property.
12. They may have a zero-foot setback at property lines, adjoining streets or public right-of-ways.

**CAL-GREEN**  
REFER TO CD101C FOR APPLICABLE CAL-GREEN DEMOLITION REQUIREMENTS

**EROSION NOTE:**  
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CONSULTANT

**WC** REGISTERED PROFESSIONAL ENGINEER  
ANTHONY J. TASSANO  
No. C74896  
EL CORONADO HILLS, CA 95730 | (916) 988-1870

PROJECT  
**LUTHER BURBANK HIGH SCHOOL  
ATHLETIC FIELDS RENOVATION**

3500 FLORIN ROAD  
SACRAMENTO, CA 95823

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

ISSUED

MARK	DATE	DESCRIPTION
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-	12/01/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

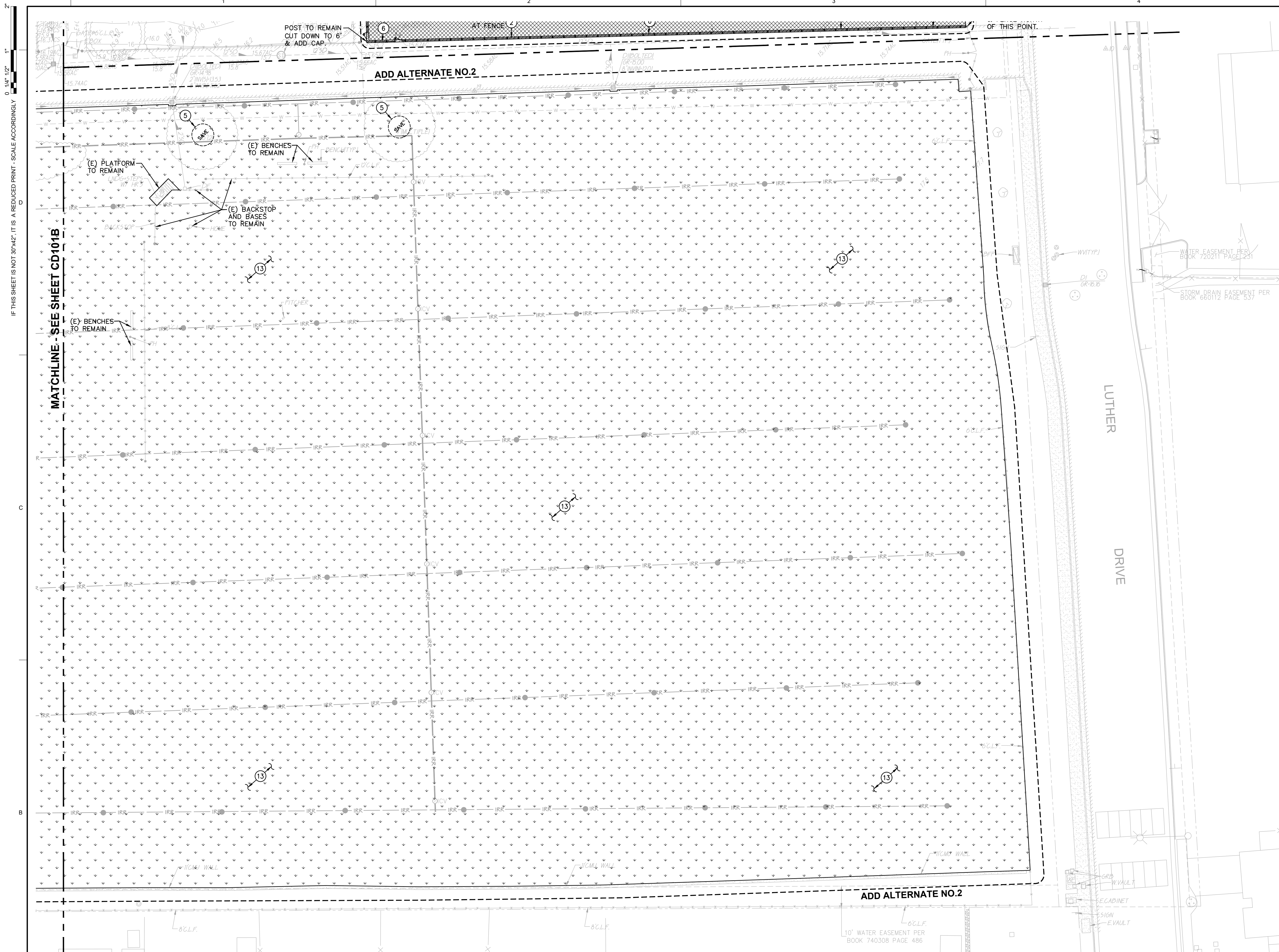
LIONAKIS PROJECT NO.	023041
DSA APPLICATION NO.	02-121593
CLIENT PROJECT NO.	####
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TITLE  
**SURFACE DEMOLITION  
PLAN**

**AREA B**

SHEET  
**CD101B**

PLOT DATE: 11/28/2023 6:34:13 PM FILE: I:\23-106\CIVIL\DWG\23-106-102 - CD101A-C.DWG



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  27. REMOVE EXISTING BLEACHERS.

**EXISTING UTILITIES AND LOCATING**  
VARIOUS UTILITIES EXIST BENEATH THE PROPOSED IMPROVEMENTS. CONTRACTOR SHALL ACQUIRE 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 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 determine 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 material 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.

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

**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).

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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.

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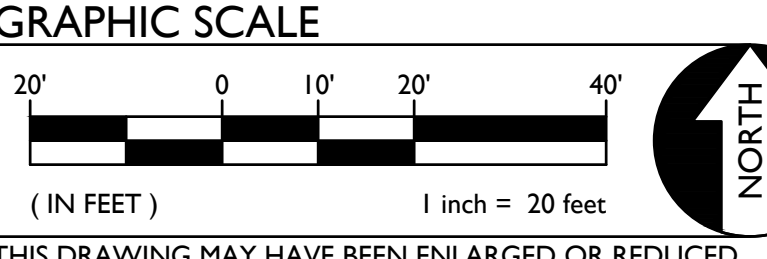
**Notes:**

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.cdffa.ca.gov/electroniccounty\\_contacts.html](http://www.cdffa.ca.gov/electroniccounty_contacts.html))
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CAL-GREEN  
REFER TO CD101C FOR APPLICABLE  
CAL-GREEN DEMOLITION REQUIREMENTS

**EROSION NOTE:**  
REFER TO CD101C FOR APPLICABLE EROSION PROTECTIVE MEASURES DURING DEMOLITION. PROVIDE APPROVED BMP'S AT ALL LOCATIONS NECESSARY TO PREVENT SEDIMENT LADEN WATER FROM LEAVING THE SITE. REFER TO SWPPP FOR ADDITIONAL INFO.



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CONSULTANT

**WC** REGISTERED PROFESSIONAL ENGINEER  
ANTHONY J. TASSANO  
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PROJECT  
**LUTHER BURBANK HIGH SCHOOL  
ATHLETIC FIELDS RENOVATION**

3500 FLORIN ROAD  
SACRAMENTO, CA 95823

CLIENT  
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

5735 47TH AVENUE, SACRAMENTO, CA 95824

ISSUED

MARK	DATE	DESCRIPTION
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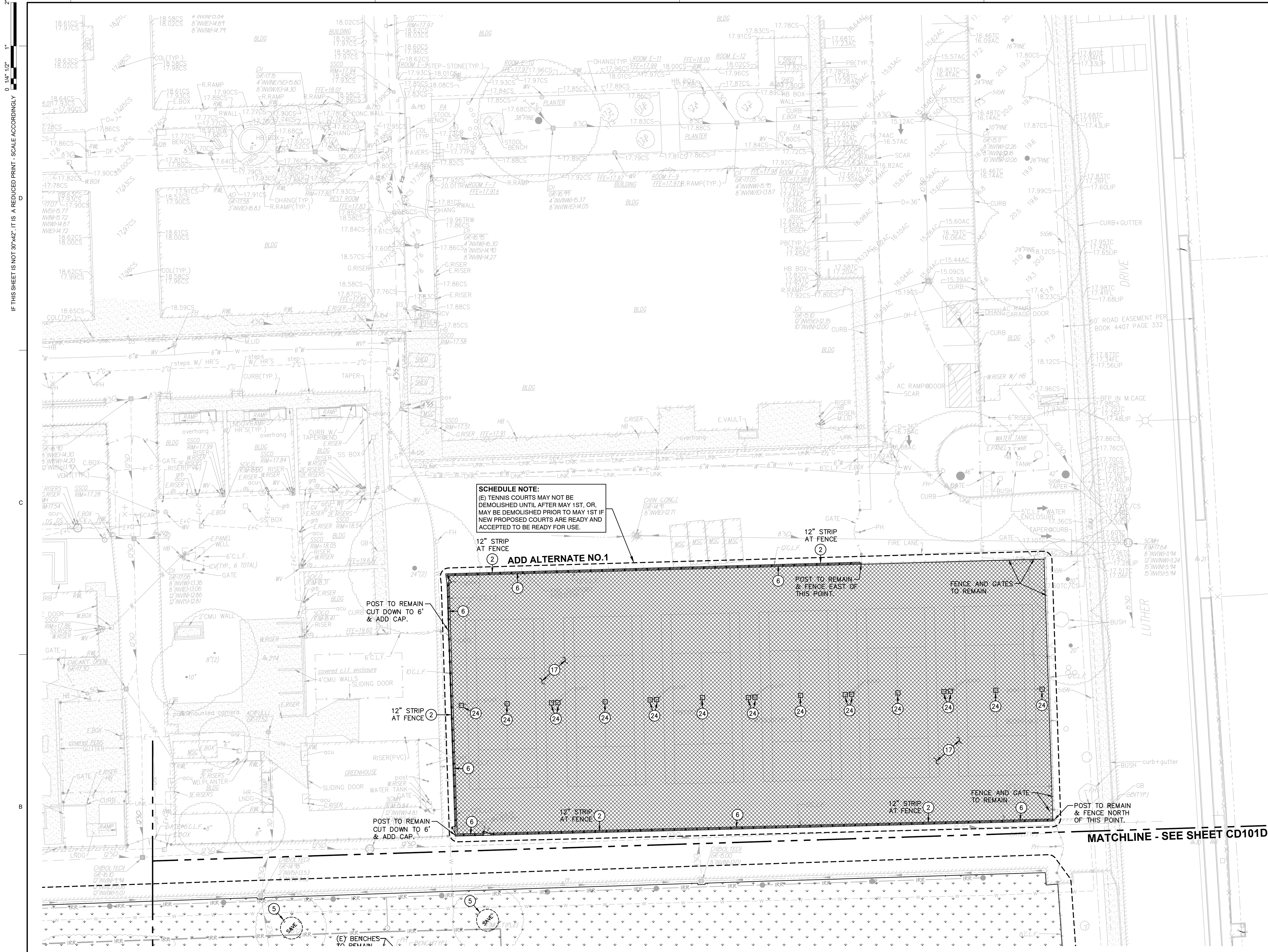
MANAGEMENT

LIONAKIS PROJECT NO.	023041
DSA APPLICATION NO.	02-121593
CLIENT PROJECT NO.	####
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TITLE  
**SURFACE DEMOLITION  
PLAN**

**AREA C**

SHEET  
**CD101C**



**SCHEDULE NOTE:**  
 (E) TENNIS COURTS MAY NOT BE DEMOLISHED UNTIL AFTER MAY 1ST, OR, MAY BE DEMOLISHED PRIOR TO MAY 1ST IF NEW PROPOSED COURTS ARE READY AND ACCEPTED TO BE READY FOR USE.

**MATCHLINE - SEE SHEET CD101D**

**EXISTING UTILITIES AND LOCATING**  
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**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 identify 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 contractor's responsibility.  
 4. Contractor shall record and provide records of the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.

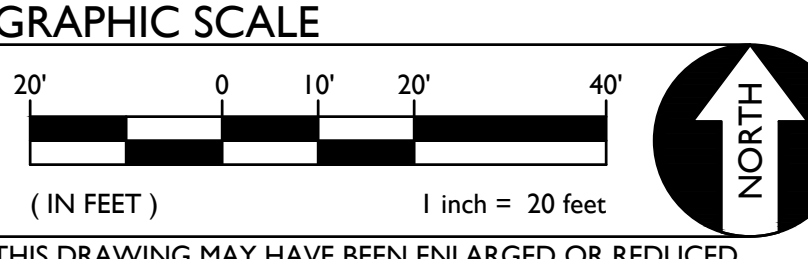
**811**  
 Know what's below.  
 Call before you dig.

**CAL-GREEN - Waste Diversion Documentation Required (Red 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 (CMD) 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.cdffa.ca.gov/rececountycounty\\_contacts.htm](http://www.cdffa.ca.gov/rececountycounty_contacts.htm))  
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**CAL-GREEN**  
 REFER TO CD101C FOR APPLICABLE CAL-GREEN DEMOLITION REQUIREMENTS

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 REFER TO CD101C FOR APPLICABLE EROSION PROTECTIVE MEASURES DURING DEMOLITION. PROVIDE APPROVED BMP'S AT ALL LOCATIONS NECESSARY TO PREVENT SEDIMENT LOADEN WATER FROM LEAVING THE SITE. REFER TO SWPPP FOR ADDITIONAL INFO.



- 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 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 ACCURACY OR ITS DELINEATION OF SUCH UNDERGROUND UTILITIES. NOT 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 LIMITING 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 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 BY HAND IF NECESSARY. BACKFILL VOID PER GRADING 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, STRIP 24"x4" 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. PAINT EXISTING STRIPING BLACK WITH MIN. 2 COATS COMMERCIAL GRADE BLACK TRAFFIC PAINT.
  10. REMOVE EXISTING DRAIN INLET/MANHOLE. SEE UTILITY DEMOLITION PLAN FOR ADDITIONAL INFORMATION.
  11. REMOVE EXISTING SYNTHETIC TURF. REMOVE NAILERS AND ANY WOOD OR CONCRETE CURBS. SEE PAVING PLAN CP101A, AND LANDSCAPE PLANS FOR NEW.
  12. DISCONNECT, DISMANTLE AND REMOVE EXISTING DUGGOUT 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. SAWCUT AND REMOVE EXISTING ASPHALT PAVING, LEAVE EXISTING BASE ROCK.
  18. REMOVE EXISTING SCOREBOARD TO INCLUDE FOOTINGS.
  19. REMOVE EXISTING METAL POST TO INCLUDE CONCRETE FOOTINGS.
  20. REMOVE EXISTING BASES AND PITCHING MOUNDS AND ANY CONCRETE FOOTINGS. DISTRICT MAY SALVAGE. SEE GENERAL 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 EXISTING SIGN TO INCLUDE POST AND CONCRETE BASE.
  23. EXISTING BENCHES TO REMAIN, PROTECT FROM DAMAGE.
  24. REMOVE EXISTING TENNIS COURT POST AND NET ANCHORS AND CONCRETE BASES. BACKFILL WITH CLASS II AB COMPACTED TO 95% UP TO SUBGRADE OR EXISTING AB SURFACE.
  25. EXISTING STORAGE CONTAINER TO BE RELOCATED. SEE ARCH. PLANS. LOCATION SHALL COMPLY WITH GENERAL NOTES ON SHEET CD101B AND DSA IR A-27.
  26. REMOVE EXISTING STEPS AND RAILINGS.
  27. REMOVE EXISTING BLEACHERS.

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 EL CERRILLO HILLS, CA 94530 (916) 958-9470

**ANTHONY J. TASSANO**  
 REGISTERED PROFESSIONAL ENGINEER  
 No. 07486  
 State of California  
 10/2023

**PROJECT**  
 LUTHER BURBANK HIGH SCHOOL  
 ATHLETIC FIELDS RENOVATION

3500 FLORIN ROAD  
 SACRAMENTO, CA 95823

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

**ISSUED**

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**MANAGEMENT**

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**TITLE**  
 SURFACE DEMOLITION  
 PLAN

**AREA D**

**SHEET**  
 CD101D

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

### EXISTING UTILITIES AND LOCATING

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**Exceptions to Sections 5.408.1.1 and 5.408.1.2:**

- 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.
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(Ref Calgreen 5.408.1.4)  
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  - Mixed construction and demolition debris (CAD) processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).

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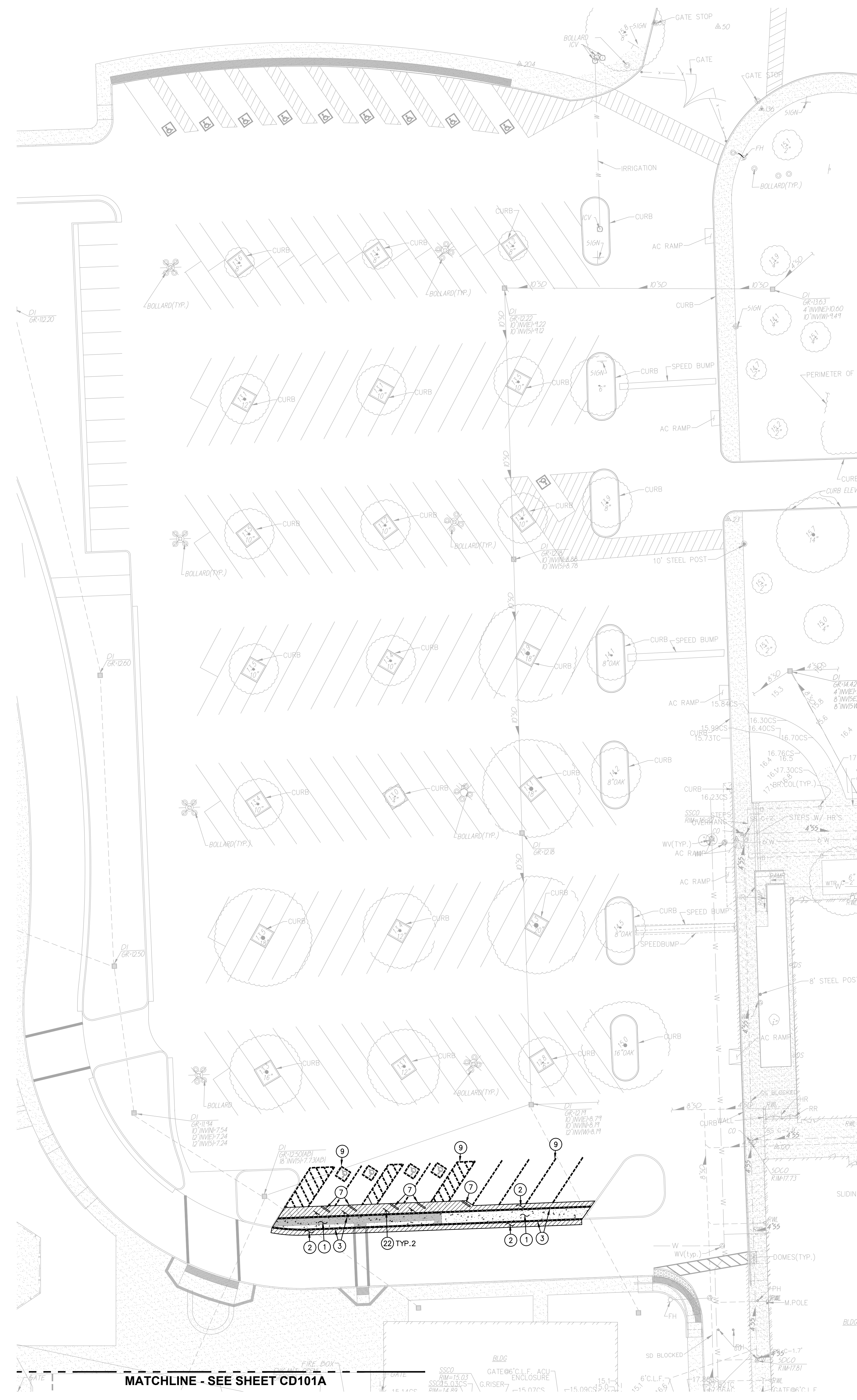
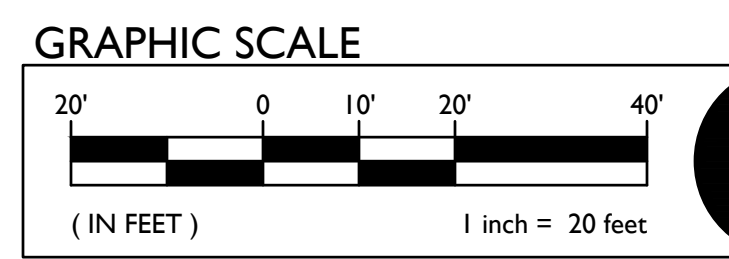
- Notes:**
- If contamination by disease or pest infestation is suspected, contact the County Agricultural Commissioner and follow its direction for recycling or disposal of the material. ([www.cdafs.ca.gov/extension/county\\_contacts.html](http://www.cdafs.ca.gov/extension/county_contacts.html))
  - For a map of known pest and/or disease quarantine zones, consult with the California Department of Food and Agriculture. ([www.cdafs.ca.gov](http://www.cdafs.ca.gov))

FILE: 1:03-106(CVIL)DWG23-106-102 - CD101A-C.DWG PLOT DATE: 11/28/2023 6:33:28 PM



**CAL-GREEN**  
REFER TO CD101C FOR APPLICABLE CAL-GREEN DEMOLITION REQUIREMENTS

**EROSION NOTE:**  
REFER TO CD101C FOR APPLICABLE EROSION PROTECTIVE MEASURES DURING DEMOLITION. PROVIDE APPROVED BMPs AT ALL LOCATIONS NECESSARY TO PREVENT SEDIMENT LOADED WATER FROM LEAVING THE SITE. REFER TO SWPPP FOR ADDITIONAL INFO.



MATCHLINE - SEE SHEET CD101A

### DEMOLITION GENERAL NOTES

- 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.
- NO BURNING OR BLASTING SHALL BE PERMITTED.
- ADDITIONAL DEMOLITION INFORMATION MAY BE SHOWN ON THE GRADING, DRAINAGE, AND UTILITY PLANS, AND THOSE PLANS PREPARED BY OTHER DISCIPLINES FOR THIS PROJECT.
- ALL DEMOLISHED ITEMS SHALL BE DISPOSED OF OFFSITE AT A SUITABLE, LEGAL, DUMP SITE OR OTHER FACILITY.
- ALL DISPOSED OF MATERIALS SHALL BE RECYCLED IF POSSIBLE.
- 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 ACCURACY OR ITS DELINEATION OF SUCH UNDERGROUND UTILITIES. NOT 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.
- 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.
- EXISTING UTILITY STRUCTURES IN AREAS OF NEW PAVING SHALL BE REMOVED AND REINSTALLED AT NEW GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.
- ITEMS OUTSIDE THE LIMITS OF DEMOLITION SHALL REMAIN AND BE PROTECTED FROM DAMAGE DURING CONSTRUCTION.
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- 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

- LEGEND**
- 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.
  - 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.
  - REMOVE EXISTING CONCRETE CURB/CURB GUTTER.
  - 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.
  - 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.
  - 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.
  - REMOVE AND DISPOSE OF EXISTING CONCRETE WHEEL STOP. WHEEL STOPS IN GOOD CONDITION WITH NO CHIPS OR CRACKS MAY BE SALVAGED AND RE-USED.
  - REMOVE EXISTING BENCHES OR TABLE TO INCLUDE CONCRETE FOOTINGS. BACKFILL WITH CLASS II AB IN 6" LIFTS, EACH COMPACTED TO 95%.
  - PAINT EXISTING STRIPING BLACK WITH MIN. 2 COATS COMMERCIAL GRADE BLACK TRAFFIC PAINT.
  - REMOVE EXISTING DRAIN INLET/MANHOLE. SEE UTILITY DEMOLITION PLAN FOR ADDITIONAL INFORMATION.
  - REMOVE EXISTING SYNTHETIC TURF. REMOVE NAILERS AND ANY WOOD OR CONCRETE CURBS. SEE PAVING PLAN CP101A, AND LANDSCAPE PLANS FOR NEW.
  - DISCONNECT, DISMANTLE AND REMOVE EXISTING DUGGOUT STRUCTURE TO INCLUDE ALL STRUCTURE, WALLS, SLABS AND FOUNDATIONS.
  - REMOVE ALL PLANTS, SHRUBS, EXISTING VEGETATION, INFIELD MIX AND OTHER LANDSCAPE TYPE PLANTING. REFER TO EARTHWORK SPECIFICATIONS FOR ADDITIONAL SITE CLEARING REQUIREMENTS. SEE LANDSCAPE PLANS FOR IRRIGATION DEMOLITION AND INSTALLATION. SEE GENERAL IRRIGATION NOTE, THIS SHEET.
  - REMOVE EXISTING IRRIGATION VALVES, LINES WIRES, ETC. REFER TO LANDSCAPE AND IRRIGATION PLANS FOR ADDITIONAL INFO.
  - 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.
  - REMOVE EXISTING UTILITY BOX. DISCONNECT AND REMOVE ASSOCIATED UTILITIES. SEE UTILITY PLANS FOR ADDITIONAL INFO.
  - SAWCUT AND REMOVE EXISTING ASPHALT PAVING, LEAVE EXISTING BASE ROCK.
  - REMOVE EXISTING SCOREBOARD TO INCLUDE FOOTINGS.
  - REMOVE EXISTING METAL POST TO INCLUDE CONCRETE FOOTINGS.
  - REMOVE EXISTING BASES AND PITCHING MOUNDS AND ANY CONCRETE FOOTINGS. DISTRICT MAY SALVAGE. SEE GENERAL NOTE 7.
  - 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.
  - REMOVE EXISTING SIGN TO INCLUDE POST AND CONCRETE BASE.
  - EXISTING BENCHES TO REMAIN, PROTECT FROM DAMAGE.
  - REMOVE EXISTING TENNIS COURT POST AND NET ANCHORS AND CONCRETE BASES. BACKFILL WITH CLASS II AB COMPACTED TO 95% UP TO SUBGRADE OR EXISTING AB SURFACE.
  - EXISTING STORAGE CONTAINER TO BE RELOCATED. SEE ARCH. PLANS. LOCATION SHALL COMPLY WITH GENERAL NOTES ON SHEET CD101B AND DSA IR A-27.
  - REMOVE EXISTING STEPS AND RAILINGS.
  - REMOVE EXISTING BLEACHERS.

**LIONAKIS**  
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 1117 WINFIELD WAY, SUITE 110  
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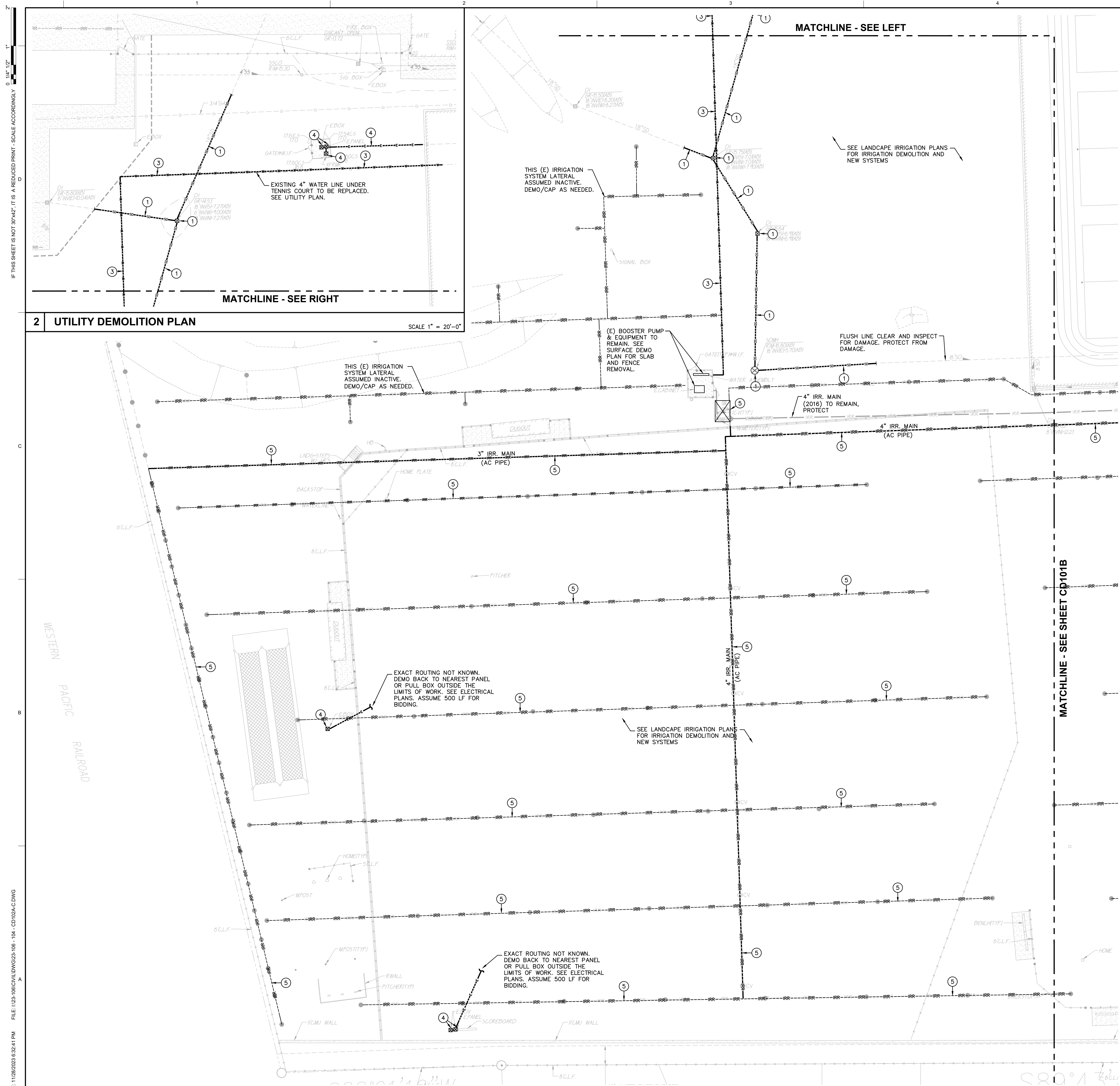
REGISTERED PROFESSIONAL ENGINEER  
 ANTHONY J. TASSANO  
 No. C74986  
 State of California  
 1102023

PROJECT  
**LUTHER BURBANK HIGH SCHOOL**  
**ATHLETIC FIELDS RENOVATION**  
 3500 FLORIN ROAD  
 SACRAMENTO, CA 95823  
 CLIENT  
 SACRAMENTO CITY UNIFIED SCHOOL DISTRICT  
 5735 47TH AVENUE, SACRAMENTO, CA 95824

ISSUED		
MARK	DATE	DESCRIPTION
-	8.10.2023	DSA SUBMITTAL
-	12/01/2023	BID SET - NOT DSA APPROVED

MANAGEMENT	
LIONAKIS PROJECT NO.	023041
DSA APPLICATION NO.	02-121593
CLIENT PROJECT NO.	####
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TITLE  
**SURFACE DEMOLITION PLAN**  
 AREA E  
 SHEET  
**CD101E**



**2 UTILITY DEMOLITION PLAN**

SCALE 1" = 20'-0"

**1 UTILITY DEMOLITION PLAN**

SCALE 1" = 20'-0"

**DEMOLITION GENERAL NOTES**

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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.
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**UTILITY DEMOLITION NOTES**

- LEGEND**
- 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 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 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.
  - ④ ASSUMED LOCATION OF EXISTING ELECTRICAL SYSTEMS. SHUT OFF, DISCONNECT AND REMOVE EXISTING ELECTRICAL SYSTEMS. REFER TO ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
  - ⑤ SEE LANDSCAPE IRRIGATION PLANS.
- IRRIGATION MAIN LINES ARE KNOWN TO CONTAIN ASBESTOS (AC PIPE) AND WILL REQUIRE HAZARDOUS MATERIAL DISPOSAL WHICH SHALL BE INCLUDED IN THE CONTRACTORS BID.**

**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.

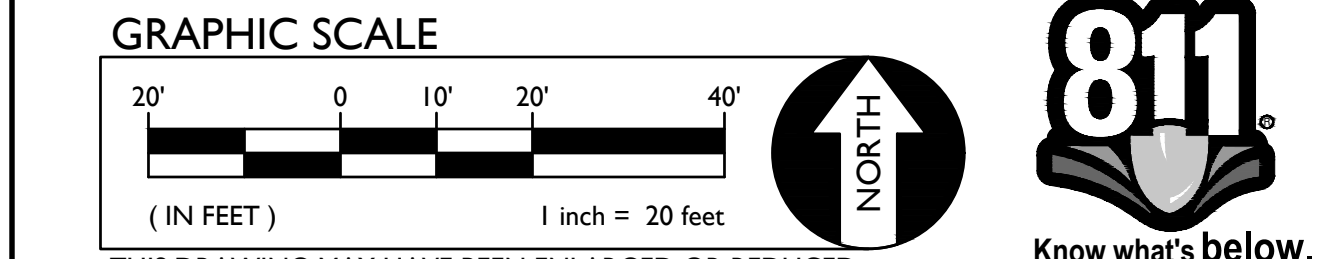
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**ABATEMENT NOTE**  
TRANSITE IRRIGATION LINES ARE PRESENT AND PLANNED FOR REMOVAL USE CAUTION DURING DEMOLITION AND CONSTRUCTION. SEE UTILITY DEMOLITION PLAN FOR PRECAUTIONS AND ABATEMENT.

**CAL-GREEN**  
REFER TO CD101C FOR APPLICABLE CAL-GREEN DEMOLITION REQUIREMENTS

**EROSION NOTE:**  
REFER TO CD001 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.



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**WC** REGISTERED PROFESSIONAL ENGINEER  
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EL CORRALO HILLS, CA 95760 | (916) 988-8470

PROJECT  
**LUTHER BURBANK HIGH SCHOOL  
ATHLETIC FIELDS RENOVATION**

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SACRAMENTO, CA 95823

CLIENT  
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MANAGEMENT

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TITLE  
**UTILITY DEMOLITION  
PLAN**

AREA A

SHEET  
**CD102A**

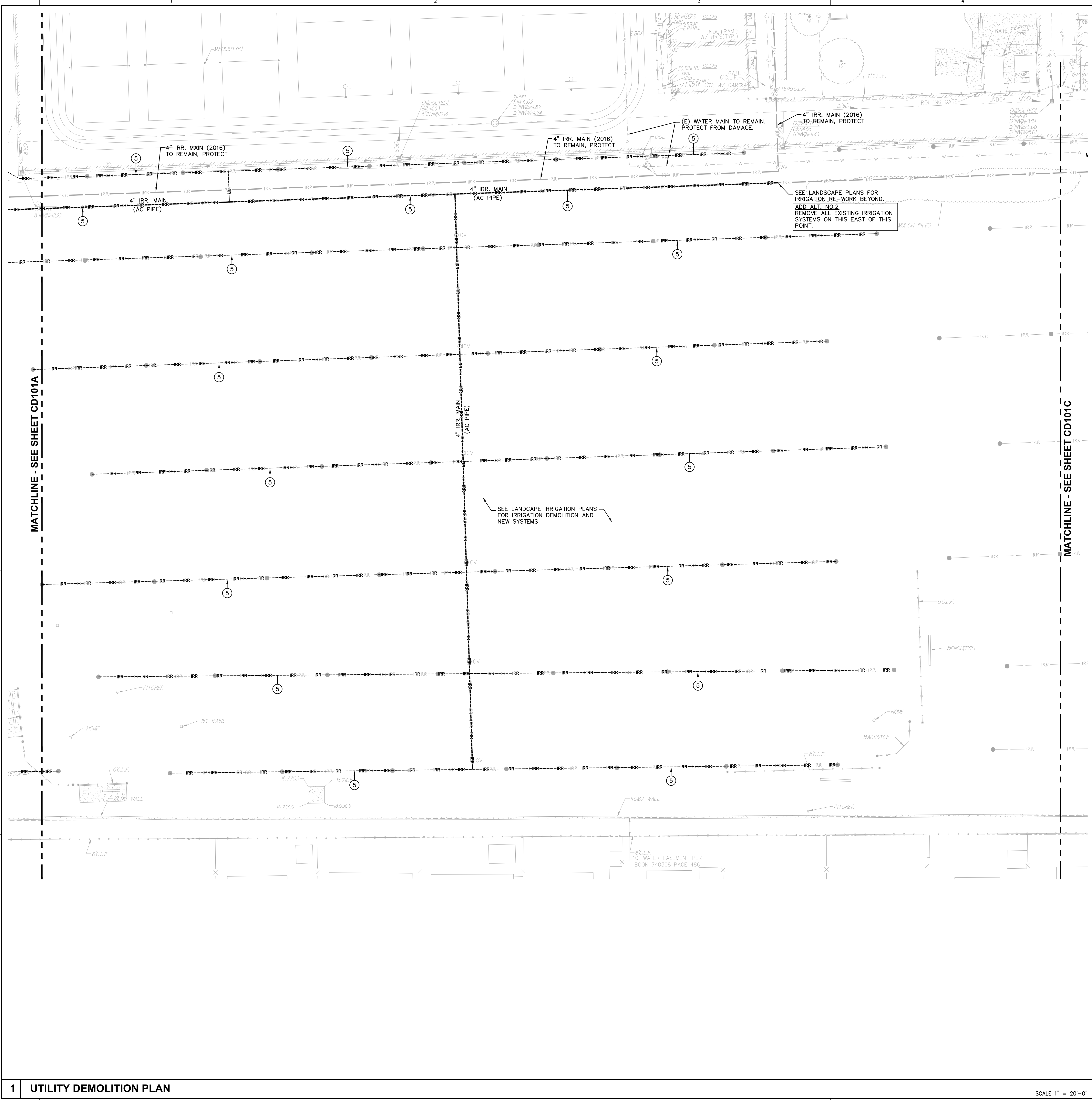
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**UTILITY DEMOLITION NOTES**

- LEGEND**
- |  |  |
|--|--|
|  | 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 WHERE CAP/PLUG OR GROUT CANNOT BE USED. |
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|  | 3 SHUT OFF, DISCONNECT AND REMOVE EXISTING WATER LINE AND VALVES AS NOTED. PROVIDE TEMPORARY CAP AS NEEDED UNTIL NEW CONNECTION IS MADE.   |
|  | 4 ASSUMED LOCATION OF EXISTING ELECTRICAL SYSTEMS. SHUT OFF, DISCONNECT AND REMOVE EXISTING ELECTRICAL SYSTEMS. REFER TO ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.  |
|  | 5 SEE LANDSCAPE IRRIGATION PLANS.  |

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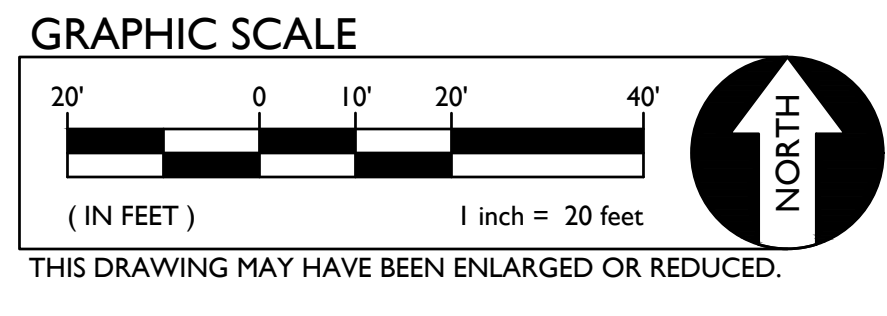
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**WC** ANTHONY J. TASSANO  
REGISTERED PROFESSIONAL ENGINEER  
No. C74896  
State of California  
1102023

WARREN CONSULTING ENGINEERS, INC.  
1117 WINFIELD WAY, SUITE 110  
EL CERRILLO HILLS, CA 95701 (916) 988-1870

SEAL

PROJECT  
**LUTHER BURBANK HIGH SCHOOL  
ATHLETIC FIELDS RENOVATION**

3500 FLORIN ROAD  
SACRAMENTO, CA 95823

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

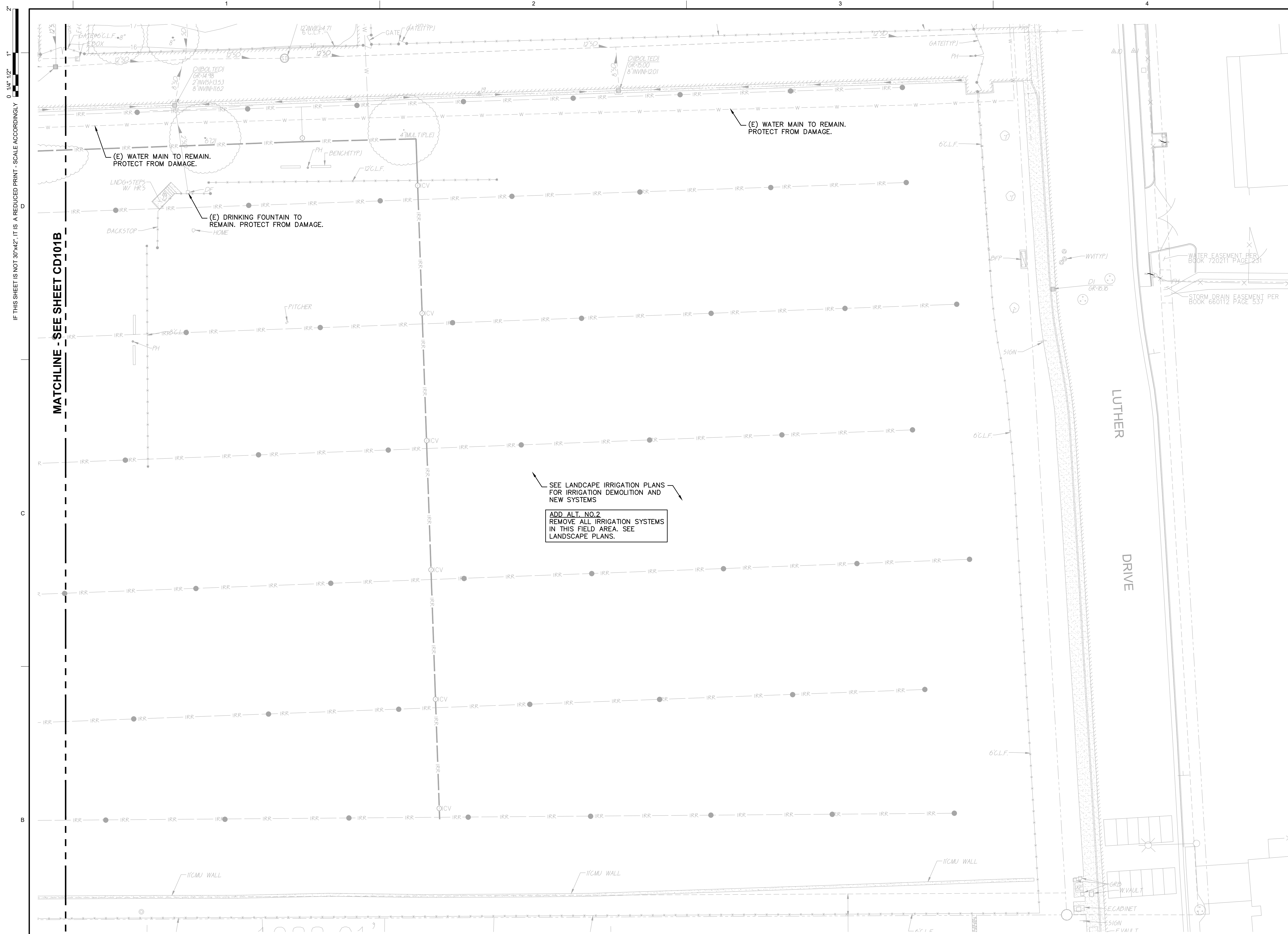
MARK	DATE	DESCRIPTION
-	8.10.2023	DSA SUBMITTAL
-	12/01/2023	BID SET - NOT DSA APPROVED

MANAGEMENT	
LIONAKIS PROJECT NO.	023041
DSA APPLICATION NO.	02-121593
CLIENT PROJECT NO.	####
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TITLE  
**UTILITY DEMOLITION  
PLAN**

AREA B

SHEET  
**CD102B**



- ### DEMOLITION GENERAL NOTES
- 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.
  - NO BURNING OR BLASTING SHALL BE PERMITTED.
  - ADDITIONAL DEMOLITION INFORMATION MAY BE SHOWN ON THE GRADING, DRAINAGE, AND UTILITY PLANS, AND THOSE PLANS PREPARED BY OTHER DISCIPLINES FOR THIS PROJECT.
  - ALL DEMOLISHED ITEMS SHALL BE DISPOSED OF OFFSITE AT A SUITABLE, LEGAL, DUMP SITE OR OTHER FACILITY.
  - ALL DISPOSED OF MATERIALS SHALL BE RECYCLED IF POSSIBLE.
  - 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.
  - 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 CONTRACTOR'S 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.
  - EXISTING UTILITY STRUCTURES IN AREAS OF NEW PAVING SHALL BE REMOVED AND REINSTALLED AT NEW GRADE UNLESS SPECIFICALLY NOTED OTHERWISE.
  - ITEMS OUTSIDE THE LIMITS OF DEMOLITION SHALL REMAIN AND BE PROTECTED FROM DAMAGE DURING CONSTRUCTION.
  - CONTRACTOR SHALL COMPLY WITH CHAPTER 33 OF THE 2022 CFC, "FIRE SAFETY DURING CONSTRUCTION AND DEMOLITION" AT ALL TIMES DURING CONSTRUCTION.
  - 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.
  - 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 CONTRACTOR'S 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 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 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.  |
|        | 4 ASSUMED LOCATION OF EXISTING ELECTRICAL SYSTEMS. SHUT OFF, DISCONNECT AND REMOVE EXISTING ELECTRICAL SYSTEMS. REFER TO ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.   |
|        | 5 SEE LANDSCAPE IRRIGATION PLANS.   |

**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.

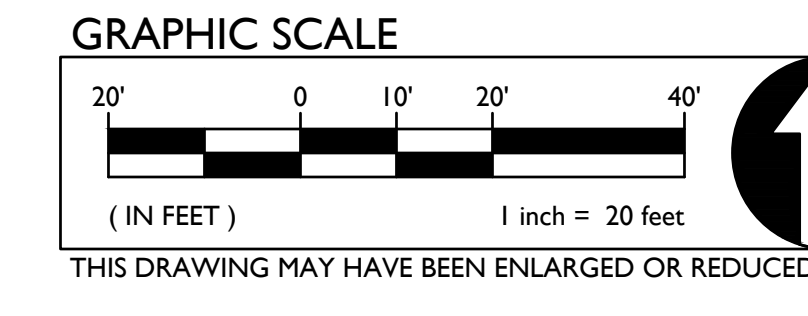
**IRRIGATION DEMOLITION**  
WITHIN LANDSCAPE AREAS TO BE DEMOLISHED THERE MAY BE EXISTING IRRIGATION LINES NOT SHOWN ON THIS PLAN. CONTRACTOR SHALL REMOVE LATERAL LINE AND HEADS ENCOUNTERED, PROVIDED THAT THE MAIN LINES AND CONTROL WIRES ONLY IF ROUTING IS KNOWN AND REMOVAL WILL NOT DEACTIVATE AN IRRIGATION 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 ACQUIRE 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.

**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.

**CAL-GREEN**  
REFER TO CD101C FOR APPLICABLE CAL-GREEN DEMOLITION REQUIREMENTS

**EROSION NOTE:**  
REFER TO CD101C FOR APPLICABLE EROSION PROTECTIVE MEASURES DURING DEMOLITION. PROVIDE APPROVED BMPs AT ALL LOCATIONS NECESSARY TO PREVENT SEDIMENT LOADS FROM LEAVING THE SITE. REFER TO SWPPP FOR ADDITIONAL INFO.



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

CONSULTANT

**WC** REGISTERED PROFESSIONAL ENGINEER  
ANTHONY J. TASSANO  
No. 014896  
10/2023  
WARREN CONSULTING ENGINEERS, INC.  
1117 WINDFIELD WAY, SUITE 110  
EL CERRITO HILLS, CA 94530 | (916) 988-1870

PROJECT  
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TITLE  
**UTILITY DEMOLITION  
PLAN**

AREA C

SHEET  
**CD102C**



## 1 UTILITY DEMOLITION PLAN

**EXISTING UTILITIES AND LOCATING**  
VARIOUS UTILITIES EXIST BENEATH THE PROPOSED IMPROVEMENTS. CONTRACTOR SHALL ACQUIRE 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 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:
- 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.
  - Contractor shall determine 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.
  - Contractor shall identify diversion facilities where construction and demolition waste material collected will be taken. Transport to such facilities is contractor's responsibility.
  - 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:**
- Excavated soil and land-clearing debris.
  - Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist.
  - 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 material 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)

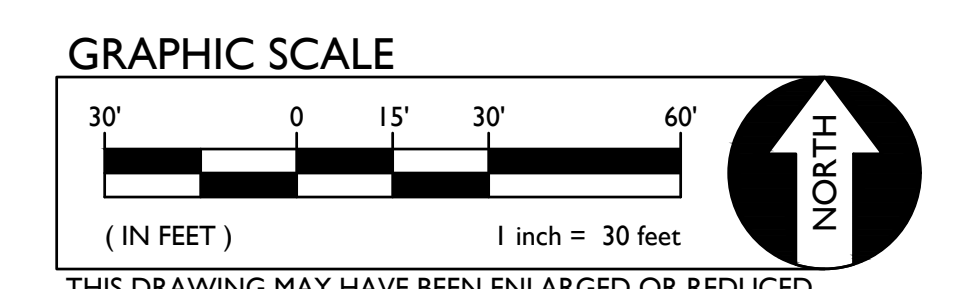
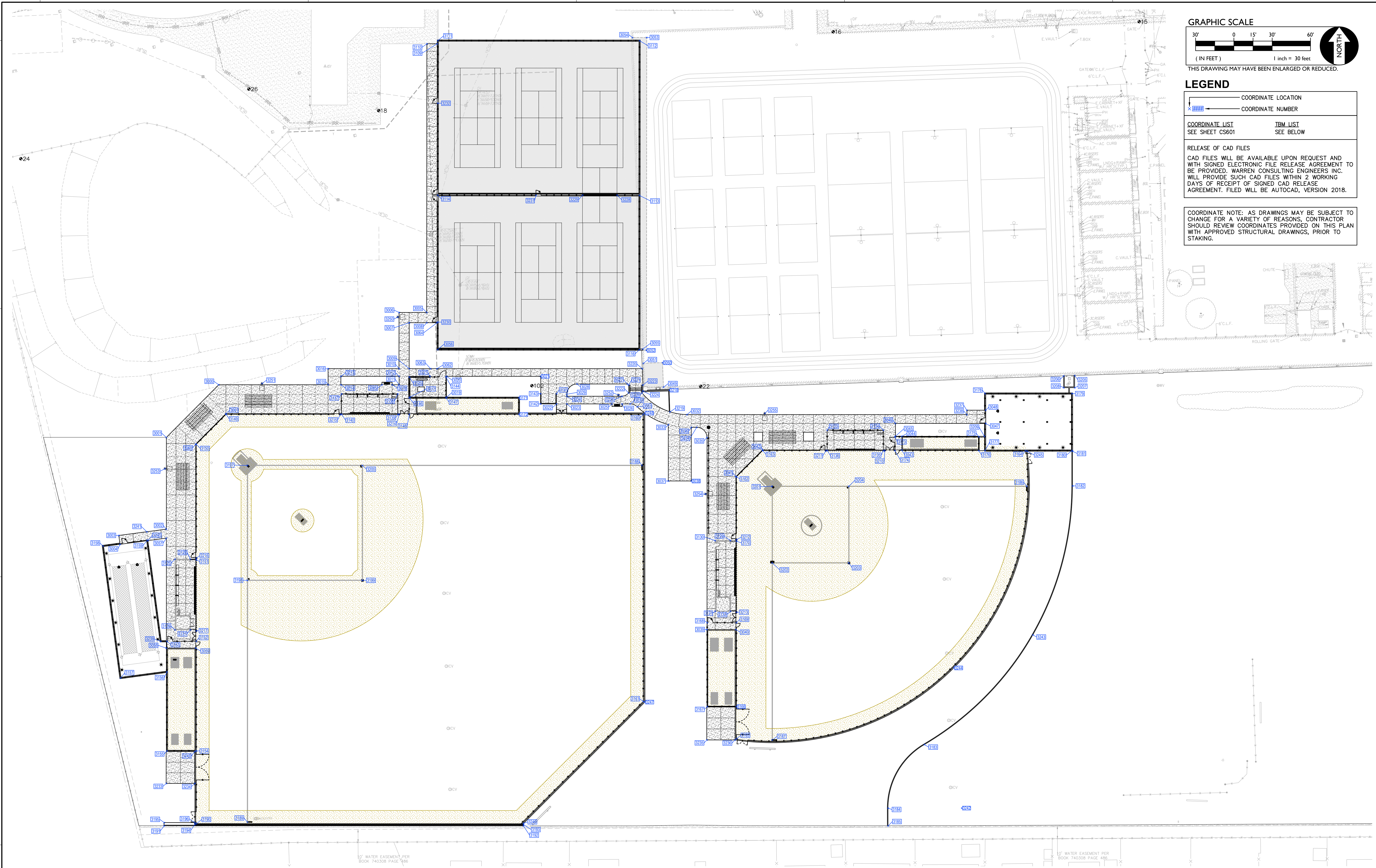
- Contractor shall prepare and provide documentation to the enforcing agency which demonstrates compliance with Calgreen Sections 5.408.1.1 through 5.408.1.3. The waste management plan shall be updated as necessary and shall be accessible during construction for examination by the enforcing agency.
- Notes:**
- 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.
  - Mixed construction and demolition debris (CXD) 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:**
- 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.cdffa.ca.gov/vececountycounty\\_contacts.htm](http://www.cdffa.ca.gov/vececountycounty_contacts.htm))
  - For a map of known pest and/or disease quarantine zones, consult with the California Department of Food and Agriculture. ([www.cdffa.ca.gov](http://www.cdffa.ca.gov))

PLOT DATE: 11/28/2023 6:33:07 PM FILE: I:\23-106\CIVIL\DWG\23-106-104 - CD102A-C.DWG

IF THIS SHEET IS NOT 30"x42", IT IS A REDUCED PRINT - SCALE ACCORDINGLY  
0.14" = 1'



**LEGEND**

	COORDINATE LOCATION
	COORDINATE NUMBER
COORDINATE LIST SEE SHEET CS601	TBM LIST SEE BELOW

**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.

**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.

**LIONAKIS**  
2025 Nineteenth Street  
Sacramento, CA 95818  
P 916.558.1900  
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CONSULTANT

**WC** ANTHONY J. TASSANO  
REGISTERED PROFESSIONAL ENGINEER  
NO. C74586  
EL CORONADO HILLS, CA 92702 | (916) 985-1870

SEAL

PROJECT  
**LUTHER BURBANK HIGH SCHOOL  
ATHLETIC FIELDS RENOVATION**

3500 FLORIN ROAD  
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**1 HORIZONTAL CONTROL PLAN**

SCALE 1" = 30'-0"

Project Control Point List					Project Control Point List					Project Control Point List					Project Control Point List					Project Control Point List				
Point #	Raw Description	Elevation	Northing	Eastng	Point #	Raw Description	Elevation	Northing	Eastng	Point #	Raw Description	Elevation	Northing	Eastng	Point #	Raw Description	Elevation	Northing	Eastng	Point #	Raw Description	Elevation	Northing	Eastng
1	CPS_CHISELED_+1	17.295	5001.1310	11493.1090	24	CPS_REBAR_W/_CAP	28.360	5136.4780	9965.0530	82	CPS_RR_SPIKE_AT_EENDCOR	17.048	5524.8840	11320.6820	132	CPS_CHISELED_+1	17.961	5383.5810	10800.7200	269	CPS_CHISELED_+1	15.588	5958.6640	10041.5660
10	CPF_MAG_NAIL_PPT	17.007	5000.8690	11484.0560	25	CPS_CHISELED_+1	15.733	5789.4850	10124.2760	102	CPS_PICKER	15.329	4958.7380	10365.2960	133	CPS_CHISELED_+1	17.821	5357.6630	10773.7660	270	CPS_CHISELED_+1	17.679	6011.4680	11440.0150
12	CPS_CHISELED_+1	19.564	4935.8860	11050.7720	26	CPS_CHISELED_+1	15.311	5191.0450	10143.6760	120	CPS_CHISELED_+1	17.913	5369.1240	10597.9270	134	CPS_CHISELED_+1	16.682	5357.6940	10721.4490	274	CPS_CHISELED_+1	17.868	5085.6110	11057.2680
13	CPS_CHISELED_+1_OPPLTSTD	16.832	5809.9850	11444.3400	38	CPS_CHISELED_+1_TCMDIWL0T	16.172	5495.5690	10581.3950	121	CPS_CHISELED_+1_AT_DI	16.018	5581.1130	10817.8190	136	CPS_CHISELED_+1_OPPGATEPOST	15.339	5796.1480	10591.7430	275	CPS_CHISELED_+1	17.297	5143.1680	11006.8560
14	CPS_CHISELED_+1	17.443	5060.0570	11019.2410	50	CPS_RR_SPIKE	14.704	5829.9720	10573.7520	122	CPS_CHISELED_+1_TC7.5S_OFH	16.143	5164.8070	11370.8420	142	CPS_CHISELED_+1_TCSWCORLOT	13.317	5308.6820	10276.8500	281	CPS_1_2_RERAR	17.409	5912.1620	11775.2880
15	CPS_CHISELED_+1	17.838	5243.8890	10840.9210	53	CPS_CHISELED_+1_TC_AT_GATEPOST	15.318	5831.6240	10547.5240	123	CPS_CHISELED_+1_AT_CS_PAD	16.585	5674.1530	11067.8240	151	CPS_CHISELED_+1_2_S\OSLB	15.465	5862.9250	10229.9650	438	CPS_CHISELED_+1_W.ENDCORRIDO	16.166	5495.5690	10581.3950
16	CPS_CHISELED_+1	17.828	5235.9640	10601.2900	56	CPS_CHISELED_+1_18'NEOFPLE	17.636	5797.0000	10869.0750	124	CPS_CHISELED_+1	17.841	5584.1540	11145.7520	161	CPS_MAG_NAIL_16SEOSE_H6	17.680	5232.1280	11116.7120	479	CPS_CHISELED_+1_9'WOSSMH	17.931	5514.7950	11099.2300
17	CPS_CHISELED_+1_OPPCORRIDOR	17.308	5529.1800	11461.6820	59	CPS_CHISELED_+1_NWCORLOT	17.768	5809.4650	11313.2690	125	CPS_CHISELED_+1	17.531	5515.0920	11246.0420	164	CPS_MAG_NAIL_2_SEOSE_H6	17.861	5243.3560	11108.4610	922	CPS_MAG_NAIL	20.668	5825.1300	9635.8720
18	CPS_CHISELED_+1	15.899	5174.1840	10245.3050	65	CPF_CHISELED_+1_SWCORL+F	16.145	5903.8710	11379.0000	126	CPS_CHISELED_+1_14SWOSWROTC	17.721	5180.2120	11125.4400	167	CPS_CHISELED_+1_2.5NEONNEWC	17.884	5306.6540	11106.4440	923	CPS_MAG_NAIL	20.996	5816.2200	9700.7760
19	CPS_CHISELED_+1	15.218	4981.5220	11194.2560	73	CPS_CHISELED_+1_EOWALL	17.892	5500.8060	10750.6860	127	CPS_CHISELED_+1	17.792	5520.8030	10985.6290	170	CPS_CHISELED_+1_2.5SEOSE	17.880	5338.9990	11104.9350	925	CPS_MAG_NAIL	14.412	6259.5300	8791.6240
20	CPS_CHISELED_+1	16.100	5507.0800	11357.2400	74	CPS_CHISELED_+1_W.ENDCORRIDO	16.166	5495.5690	10581.3950	128	CPS_CHISELED_+1	17.873	5321.9960	11006.7570	185	CPS_CHISELED_+1_10SEOSE_E-12	17.812	5349.6020	11290.5710					
21	CPS_CHISELED_+1_EONCORTENN	17.730	5131.3110	11486.0960	75	CPS_CHISELED_+1_9'WOSSMH	17.931	5514.7950	11099.2300	129	CPS_CHISELED_+1	18.002	5375.7920	10834.5830	190	CPS_CHISELED_+1_4'E/O_WALL	17.804	5339.1970	11125.7540					
22	CPS_CHISELED_+1	14.815	4958.1900	10497.4550	76	CPS_CHISELED_+1_8'WOSSMH	17.894	5507.2430	10871.3250	130	CPS_CHISELED_+1	17.925	5415.2740	11101.2190	202	CPS_CHISELED_+1_11'SWOSW	17.877	5229.9800	10873.3330					
23	CPF_CHISELED_+1	14.803	5627.3230	10577.9740	79	CPS_CHISELED_+1_9'WOSSMH	17.931	5514.7950	11099.2300	131	CPS_CHISELED_+1	17.685	5432.9990	11228.6730	204	CPS_CHISELED_+1	15.035	5814.5850	10492.1120					



TITLE  
**HORIZONTAL CONTROL  
PLAN**

SHEET  
**CS102A**

PLOT DATE: 11/28/2023 8:31:29 PM FILE: I:\23-106\CIVIL\DWG\23-106-106-CS102A.DWG

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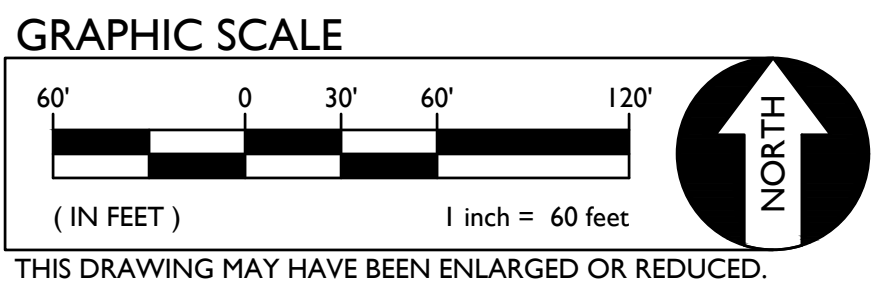
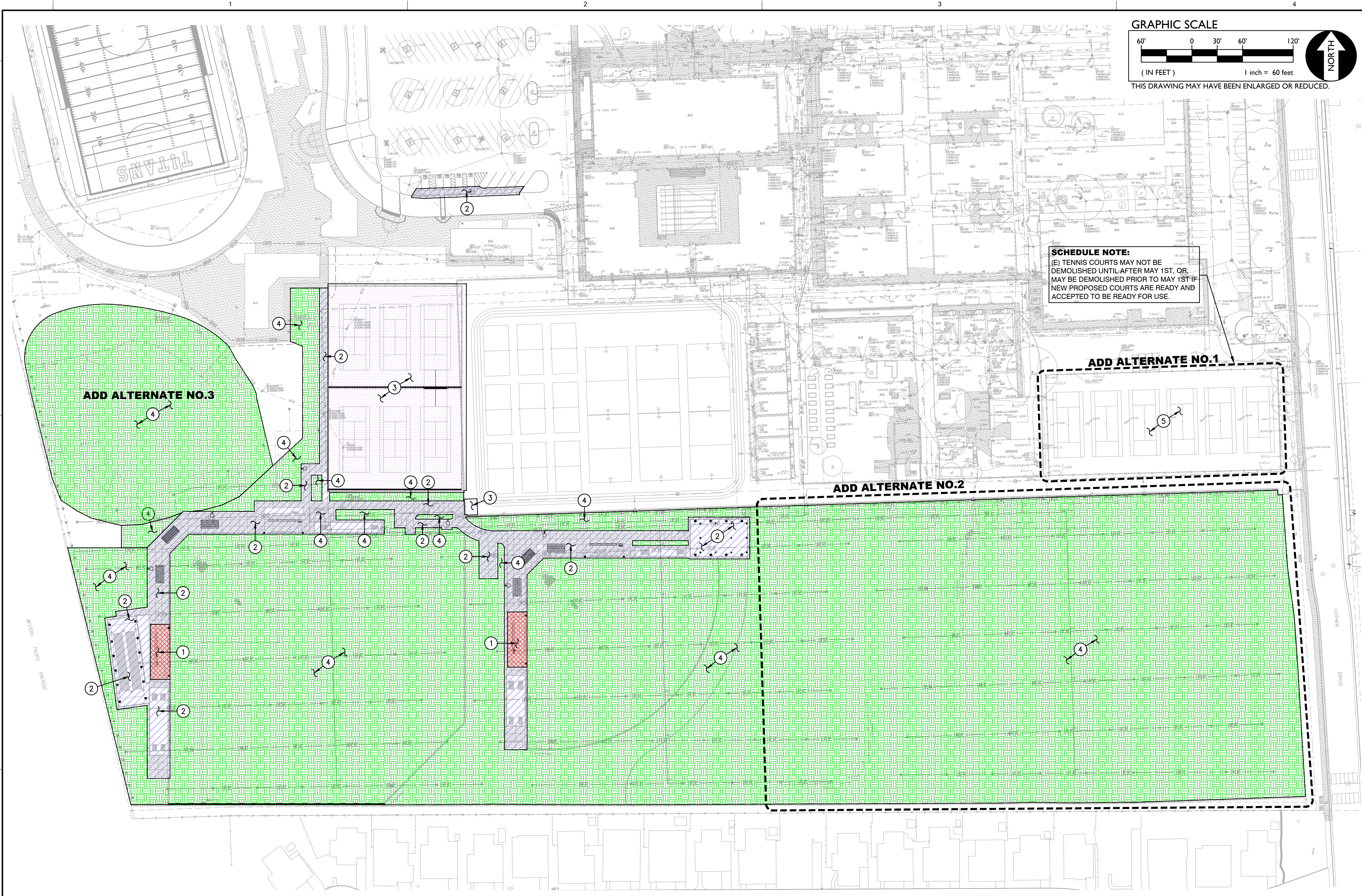
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Project Control Point List				
Point #	Raw Description	Elevation	Northing	Easting
3000	TW@AP	0.000	4959.4334	10119.9781
3001	TW@AP	0.000	4918.2247	10078.9717
3002	TW@AP	0.000	4846.3014	10078.9717
3003	TW@AP	0.000	4841.3657	10041.8426
3004	TW@AP	0.000	4834.4267	10042.7650
3005	TW@AP	0.000	5016.0311	10282.9726
3006	TW@AP	0.000	5016.0416	10261.3120
3007	TW@AP	0.000	5008.0418	10269.3068
3008	TW@AP	0.000	5008.0311	10282.9674
3009	TW@AP	0.000	4972.0270	10269.2807
3010	TW@AP	0.000	4972.0270	10261.2807
3011	TW@AP	0.000	4959.4334	10261.2807
3012	TW@AP	0.000	4966.0270	10261.2807
3013	TW@AP	0.000	4966.0270	10215.7807
3014	TW@AP	0.000	4959.4334	10215.7807
3015	TW@AP	0.000	4959.4334	10205.7548
3016	TW@AP	0.000	4972.0270	10205.7548
3017	TW@AP	0.000	4949.7668	10269.7807
3018	TW@AP	0.000	4959.4334	10255.8847
3019	TW@AP	0.000	4949.7667	10298.4891
3020	TW@AP	0.000	4966.0270	10298.4891
3021	TW@AP	0.000	4966.0270	10372.1141
3022	WALL@AP	0.000	4944.4334	10384.6141
3023	TW@AP	0.000	4944.4334	10392.6141
3024	TW@AP	0.000	4950.4334	10392.6141
3025	TW@AP	0.000	4944.4334	10427.9013
3026	TW@AP	0.000	4944.4334	10435.9013
3027	TW@AP	0.000	4960.0270	10440.1044
3028	TW@BC	0.000	4960.0270	10400.6141
3029	TW@BC	0.000	4952.0270	10392.6141
3030	TW@BC	0.000	4944.4334	10442.2624
3031	TW@BC	0.000	4942.1686	10447.8398
3032	TW@BC	0.000	4936.0481	10486.7177
3033	TW@BC	0.000	4928.1504	10472.1972
3034	TW@BC	0.000	4926.0481	10494.3388
3035	TW@BC	0.000	4918.0481	10502.3388
3036	TW@AP	0.000	4926.0481	10490.1972
3037	TW@AP	0.000	4884.0481	10472.1972
3038	TW@AP	0.000	4884.0481	10490.1972
3039	TW@AP	0.000	4767.7157	10502.3388
3040	TW@AP	0.000	4767.7157	10525.0055
3041	TW@AP	0.000	4887.5062	10525.0055
3042	TW@AP	0.000	4908.3912	10545.8904
3043	TW@AP	0.000	4908.3822	10654.9326
3044	TW@AP	0.000	4919.0489	10654.9335
3045	TW@AP	0.000	4919.0489	10649.8904
3046	TW@AP	0.000	4929.1339	10649.8904
3047	TW@AP	0.000	4929.1339	10720.6824
3048	TW@AP	0.000	4939.5052	10720.6824
3049	SAWCUT@AP	0.000	4957.6016	10468.3883
3050	SAWCUT@AP	0.000	4976.7563	10467.7113
3051	SAWCUT@AP	0.000	4976.2207	10452.5592
3052	SAWCUT@AP	0.000	4986.4107	10454.9517
3053	SAWCUT@AP	0.000	5231.4169	10455.1264
3054	SAWCUT@AP	0.000	5231.4169	10444.0156
3055	CURB@AP	0.000	4987.4111	10452.1908
3056	CL.FENCE@AP	0.000	4987.0257	10291.4521
3057	TW@AP	0.000	4839.2398	10078.9717
3058	TW@AP	0.000	4753.1514	10078.9717
3059	TW@AP	0.000	4753.1514	10101.9717
3060	TW@AP	0.000	4912.9840	10101.9717
3061	TW@AP	0.000	4936.7667	10125.6377
3062	TW@AP	0.000	4972.0270	10290.9414
3063	TW@AP	0.000	4972.0270	10285.9414
3064	TW@AP	0.000	5008.0261	10290.9670
3065	TW@AP	0.000	4959.4334	10247.8847
3109	TW@AP	0.000	5226.5260	10291.1250
3110	TW@AP	0.000	5226.5313	10283.1198
3111	CL.FENCE	0.000	5229.0256	10291.6246
3112	CL.FENCE	0.000	5228.9130	10449.6246
3113	CL.FENCE	0.000	5107.7463	10449.5382
3114	CL.FENCE	0.000	5107.8590	10291.5382
3116	CL.FENCE	0.000	4986.9130	10449.4520
3125	DUGGOUT	0.000	4822.8181	10085.8051
3126	DUGGOUT	0.000	4767.4847	10085.8051
3127	DUGGOUT	0.000	4767.4847	10097.8051
3128	DUGGOUT	0.000	4822.8181	10097.8051
3129	DUGGOUT	0.000	4837.3824	10520.7827
3130	DUGGOUT	0.000	4837.3824	10508.8388
3131	DUGGOUT	0.000	4782.0491	10508.8388
3132	DUGGOUT	0.000	4782.0491	10520.8388
3133	CL.FENCE	0.000	4923.8871	10596.5992
3134	CL.FENCE	0.000	4923.8871	10640.5992
3135	CL.FENCE	0.000	4907.8870	10640.5992
3136	CL.FENCE	0.000	4907.8871	10596.5979
3137	CL.FENCE	0.000	4952.2667	10216.2807
3138	CL.FENCE	0.000	4952.2667	10260.2807
3139	CL.FENCE	0.000	4936.2667	10260.2807
3140	CL.FENCE	0.000	4936.2667	10216.2807
3141	WALL@AP	0.000	4952.4334	10384.6141
3142	WALL@AP	0.000	4944.4334	10372.1141
3143	WALL@AP	0.000	4952.4334	10372.1141
3144	CL.FENCE	0.000	4965.5270	10297.9891

Project Control Point List				
Point #	Raw Description	Elevation	Northing	Easting
3145	CL.FENCE	0.000	4965.5270	10269.2807
3146	CL.FENCE	0.000	4949.2667	10269.2807
3147	CL.FENCE	0.000	4949.2667	10297.9891
3148	CL.FENCE	0.000	4936.2667	10269.2807
3149	CL.FENCE	0.000	4936.2667	10125.8455
3150	CL.FENCE	0.000	4912.7776	10102.4717
3151	CL.FENCE	0.000	4822.3181	10102.4717
3152	CL.FENCE	0.000	4758.4847	10102.4717
3153	CL.FENCE	0.000	4758.4847	10079.4717
3154	CL.FENCE	0.000	4672.6514	10102.4717
3155	CL.FENCE	0.000	4672.6514	10079.4717
3156	CL.FENCE	0.000	4734.5595	10079.4717
3157	CL.FENCE	0.000	4729.7330	10043.1639
3158	CL.FENCE	0.000	4833.1565	10029.4154
3159	CL.FENCE	0.000	4837.7686	10064.1104
3160	CL.FENCE	0.000	4936.2667	10452.4485
3161	CL.FENCE	0.000	4711.3963	10452.5761
3162	CL.FENCE	0.000	4887.2991	10525.5055
3163	CL.FENCE	0.000	4907.8911	10546.0975
3164	CL.FENCE	0.000	4907.8742	10751.8697
3165	CL.FENCE	0.000	4682.2381	10525.5055
3166	CL.FENCE	0.000	4707.3824	10525.5055
3167	CL.FENCE	0.000	4707.3824	10502.6721
3168	CL.FENCE	0.000	4773.0491	10502.6721
3169	CL.FENCE	0.000	4773.0491	10525.5055
3170	CL.FENCE	0.000	4836.8824	10525.5055
3171	CL.FENCE	0.000	4949.2667	10355.1033
3172	CL.FENCE	0.000	4936.2667	10355.1033
3173	CL.FENCE	0.000	4918.7160	10649.6001
3174	CL.FENCE	0.000	4907.8826	10649.5992
3175	CL.FENCE	0.000	4918.7106	10715.2668
3176	CL.FENCE	0.000	4907.8772	10715.2659
3177	CL.FENCE	0.000	4907.8777	10720.1828
3178	CL.FENCE	0.000	4952.5440	10720.1824
3179	CL.FENCE	0.000	4952.5440	10788.2659
3180	CL.FENCE	0.000	4907.8712	10788.2659
3181	CURB@END	0.000	4907.3712	10788.7659
3182	FC@BC	0.000	4880.2280	10788.7659
3183	FC@BC	0.000	4677.5951	10672.7591
3184	FC@BC	0.000	4627.7789	10644.2893
3185	FC@END	0.000	4613.9985	10644.3101
3186	FOUL.POLE	0.000	4879.9171	10752.7895
3187	FOUL.POLE	0.000	4681.2282	10553.4789
3188	FOUL.POLE	250.130	4896.2667	10451.4717
3189	FOUL.POLE	0.000	4616.9833	10142.4717
3190	CL.FENCE@AP	0.000	4615.6389	10102.4717
3191	TBC@END	0.000	4614.0022	10077.3051
3192	TBC@END	0.000	4613.8796	10358.7368
3193	CL.TD@END	0.000	4614.9642	10358.7370
3194	CL.TD@END	0.000	4615.0560	10101.3055
3195	LIP@END	0.000	4616.5022	10077.3051
3196	LIP@END	0.000	4616.4726	10101.3075
3197	HOME	0.000	4896.2667	10142.4717
3198	1ST	0.000	4806.2667	10142.4717
3199	2ND	0.000	4806.2667	10232.4717
3200	3RD	0.000	4896.2667	10232.4717
3201	HOME	0.000	4879.9171	10553.4789
3202	1ST	1.104	4819.9171	10553.4789
3203	2ND	0.000	4819.9171	10613.4789
3204	3RD	0.000	4879.9171	10613.4789
3205	CURB@END	0.000	4966.6564	10790.4326
3206	CURB@END	0.000	4966.3690	10781.7659
3207	CURB@AP	0.000	4957.1243	10790.4326
3208	CURB@AP	0.000	4957.1243	10781.7659
3209	CURB@END	0.000	4919.0439	10719.6824
3210	NET.POST	0.000	4907.8877	10641.5979
3211	NET.POST	0.000	4907.8877	10595.5979
3212	NET.POST	0.000	4838.1324	10525.5055
3213	NET.POST	0.000	4781.2991	10525.5055
3214	NET.POST	0.000	4936.2667	10261.2808
3215	NET.POST	0.000	4936.2667	10215.2808
3216	NET.POST	0.000	4823.5681	10102.4717
3217	NET.POST	0.000	4766.7348	10102.4719
3218	TRC@AP	0.000	4955.2174	10472.8880
3219	TC@END	0.000	4938.2229	10473.4079
3220	TW@AP	0.000	4972.0270	10451.7087
3221	STAIR.CURB	0.000	4959.1659	10441.0253
3222	STAIR.CURB	0.000	4952.9424	10441.0253
3223	STAIR.CURB	0.000	4959.1659	10452.1399
3224	STAIR.CURB@AP	0.000	4954.5205	10452.1399
3225	TW@BC	0.000	4950.4334	10435.9434
3226	TW@AP	0.000	4952.9395	10451.4732
3227	TC@END	0.000	4966.0266	10285.4891
3228	CL.BALLWALL@END	0.000	5107.9255	10432.0383
3229	CL.BALLWALL@END	0.000	5107.9447	10405.0383
3230	CL.FENCE@GATE	0.000	5008.5257	10291.4674
3231	CL.FENCE@GATE	0.000	5107.8041	10368.5382
3232	CL.FENCE@GATE	0.000	5179.9583	10291.5893
3233	TW@AP	0.000	4647.1514	10078.9717
3234	TW@AP	0.000	4647.1514	10101.3051
3235	TW@AP	0.000	4681.2288	10502.3388
3236	TW@AP	0.000	4681.2288	10524.3388
3237	TW@AP	0.000	4939.5052	10705.8904

Project Control Point List				
Point #	Raw Description	Elevation	Northing	Easting
3238	TW@AP	0.000	4936.0481	10705.8904
3239	CL.FENCE	0.000	4758.4847	10074.6499
3240	TW@ALIGN	0.000	4837.3398	10064.6787
3241	TW@ALIGN	0.000	4844.2778	10063.7495
3242	RP	0.000	4627.8659	10701.9559
3243	APRON@MID	0.000	4763.4829	10757.7122
3244	CURB@MID	0.000	4737.6646	10695.7

PLOT DATE: 11/28/2023 6:23:37 PM FILE: I:\23-106\CIVIL\DWG23-106-107-CG101.DWG



**SCHEDULE NOTE:**  
 (E) TENNIS COURTS MAY NOT BE DEMOLISHED UNTIL AFTER MAY 1ST, OR MAY BE DEMOLISHED PRIOR TO MAY 1ST IF NEW PROPOSED COURTS ARE READY AND ACCEPTED TO BE READY FOR USE.

**ADD ALTERNATE NO. 1**

**ADD ALTERNATE NO. 2**

**ADD ALTERNATE NO. 3**

- ENGINEERED FILL LEGEND**
- ① **DUGGOUT 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 ON-SITE 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 32 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 ON-SITE 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 32 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**  
 CONTINUE TO OVER-EXCAVATE TO 12" BELOW SUBGRADE ELEVATION. 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-COMPACTMENT REASONABLY DIFFICULT, CONTRACTOR MAY REDUCE SCARIFICATION AND RE-COMPACT TO 6" DEEP (OR LESS WITH ON-SITE GEOTECHNICAL ENGINEER APPROVAL), AND USE ONLY A STATIC ROLLER.  
 ONCE COMPACTION, 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, PLAY APPARATUS & SYNTHETIC SURFACING 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 ON-SITE 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 32 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**  
 CONTINUE TO OVER-EXCAVATE TO 12" BELOW SUBGRADE ELEVATION. 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-COMPACTMENT REASONABLY DIFFICULT, CONTRACTOR MAY REDUCE SCARIFICATION AND RE-COMPACT TO 6" DEEP (OR LESS WITH ON-SITE GEOTECHNICAL ENGINEER APPROVAL), AND USE ONLY A STATIC ROLLER.  
 ONCE COMPACTION, 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 ON-SITE 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.
  - ⑤ **TENNIS COURT REMOVAL**  
 FOLLOWING TENNIS COURT PAVING AND AGGREGATE BASE REMOVAL, REMOVE ALL LOOSE MATERIAL AND DEBRIS AND FILL AND COMPACT ALL NET POST FOOTING HOLES WITH ENGINEERED FILL, COMPACTED IN 6" LIFTS, EACH TO 90% GRADE AND PLANE AREA SMOOTH FOR NEW SURFACING AND COMPACTED TOP 6" TO 95% SEE PAVING PLAN.

MARK	DATE	DESCRIPTION
-	8.10.2023	DSA SUBMITTAL
-	12/01/2023	BID SET - NOT DSA APPROVED

**1 ENGINEERED FILL PLAN**

**ENGINEERED FILL GENERAL NOTES**

- THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE GEOTECHNICAL ENGINEERING REPORT:  
 REPORT TITLE: LUTHER BURBANK HIGH SCHOOL ATHLETIC FIELD IMPROVEMENTS  
 COMPANY: Universal Engineering Sciences REPORT DATE: October 16, 2023  
 CONTACT: Joseph R. Ybarra PHONE: 916-372-1434 PROJ NO: 4630.2300096.0016  
 REPORT WAS NOT PREPARED SPECIFICALLY FOR THIS PROJECT BUT FOR AN ADJOINING PROJECT. NO WARRANTY OR GUARANTEE IS EXPRESSED THAT THE RESULTS IN THIS STUDY ARE COMPLETELY APPLICABLE TO THIS PROJECT. REPORT HAS BEEN USED FOR REFERENCE ONLY.
- 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.
- NO BURNING OR BLASTING SHALL BE PERMITTED, UNLESS APPROVED BY THE ARCHITECT AND CITY ENGINEER, AND GEOTECHNICAL ENGINEER OF RECORD.
- 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.
- 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.
- 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.
- 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.
- ALL FILL MATERIAL, NATIVE PROCESSED ON-SITE MATERIAL OR IMPORTED, SHALL BE REVIEWED AND APPROVED BY THE SITE GEOTECHNICAL ENGINEER BEFORE USED AS ENGINEERED FILL.

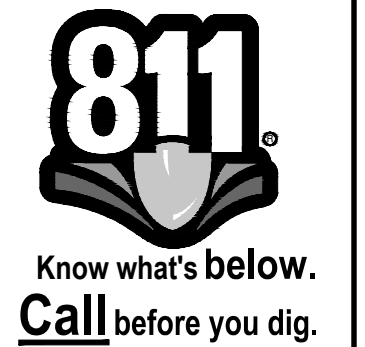
- SURFACE AND SUBSURFACE SOILS ARE NOT CONSIDERED TO BE SIGNIFICANTLY CORROSIVE TO BURIED METAL OR CONCRETE ELEMENTS OR COMPONENTS OF THE SITE DEVELOPMENT SUCH AS UTILITIES. SPECIAL MITIGATION MEASURES OR PROTECTION SYSTEMS ARE NOT FOUND NECESSARY FOR THIS REASON.
- IF IMPORTED MATERIALS ARE TO BE USED AS FILLS, IT SHALL MEET THE FOLLOWING CHARACTERISTICS:
  - PLASTICITY INDEX SHALL BE 15 OR LESS.
  - AN EXPANSION INDEX OF 20 OR LESS
  - SHALL NOT CONTAIN ROCKS OR PARTICLES LARGER THAN 3 INCHES IN DIAMETER.
  - CONTAIN SUFFICIENT BINDER TO PREVENT CAVING WHEN EXCAVATED.
  - SHALL BE DOCUMENTED CLEAN OF CONTAMINATION OR SIGNIFICANT CONCENTRATIONS OF ORGANIC MATERIAL, NO MORE THAN 3% BY WEIGHT.
  - 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.
  - 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 ACQUISITION BY THE CONTRACTOR. NO ADDITIONAL COSTS WILL BE GRANTED TO THE CONTRACTOR FOR EXTRA PROCUREMENT WORK AS A RESULT OF REJECTED IMPORT SOILS.
- 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.
- 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.



SCALE 1" = 60'-0"

- 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 ON-SITE 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.
- ⑤ **TENNIS COURT REMOVAL**  
 FOLLOWING TENNIS COURT PAVING AND AGGREGATE BASE REMOVAL, REMOVE ALL LOOSE MATERIAL AND DEBRIS AND FILL AND COMPACT ALL NET POST FOOTING HOLES WITH ENGINEERED FILL, COMPACTED IN 6" LIFTS, EACH TO 90% GRADE AND PLANE AREA SMOOTH FOR NEW SURFACING AND COMPACTED TOP 6" TO 95% SEE PAVING PLAN.

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REGISTERED PROFESSIONAL ENGINEER  
 ANTHONY J. TASSANO  
 No. C74986  
 State of California  
 1010023

PROJECT  
**LUTHER BURBANK HIGH SCHOOL  
 ATHLETIC FIELDS RENOVATION**

3500 FLORIN ROAD  
 SACRAMENTO, CA 95823

CLIENT  
 SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

5735 47TH AVENUE, SACRAMENTO, CA 95824

MARK	DATE	DESCRIPTION
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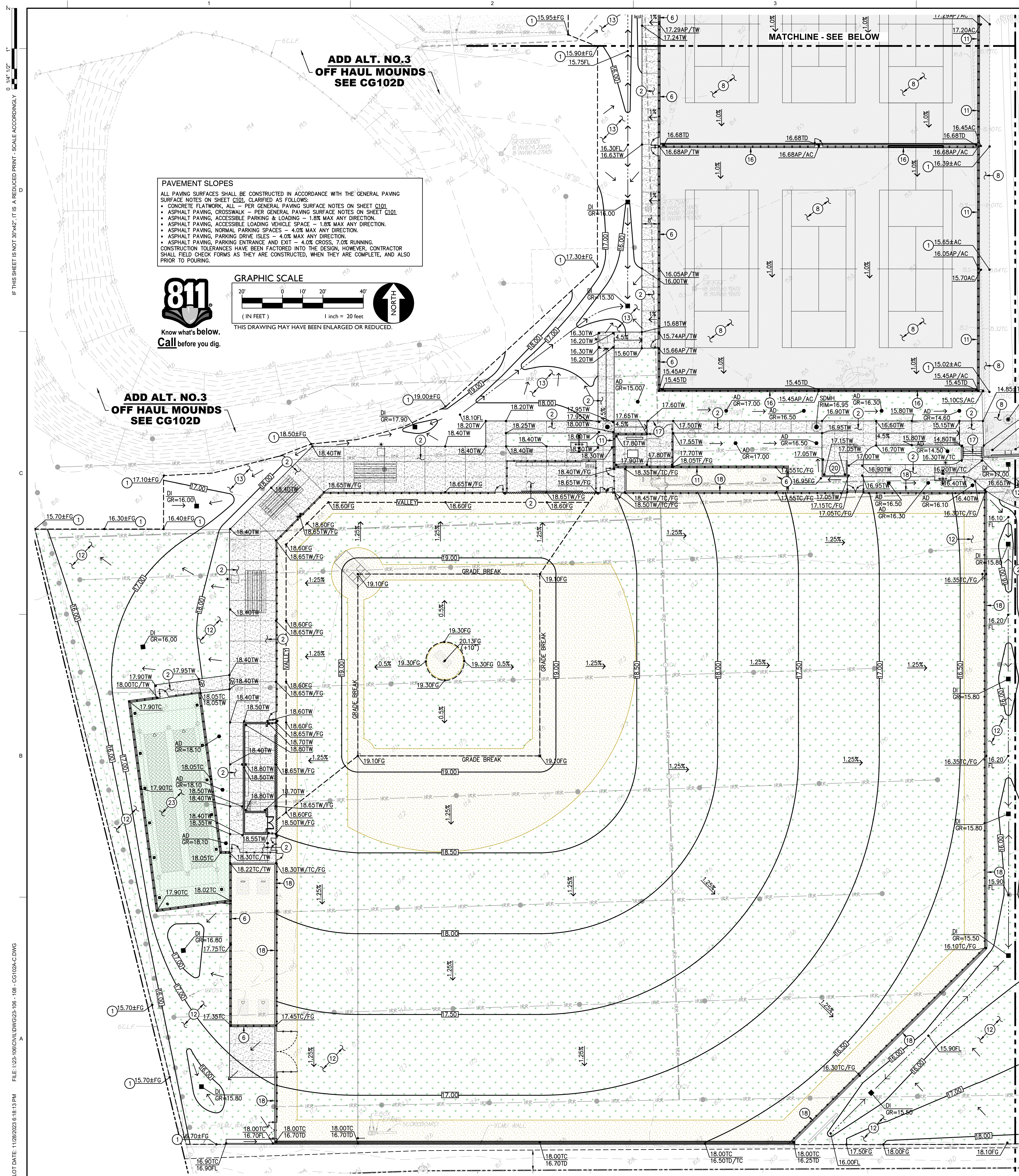
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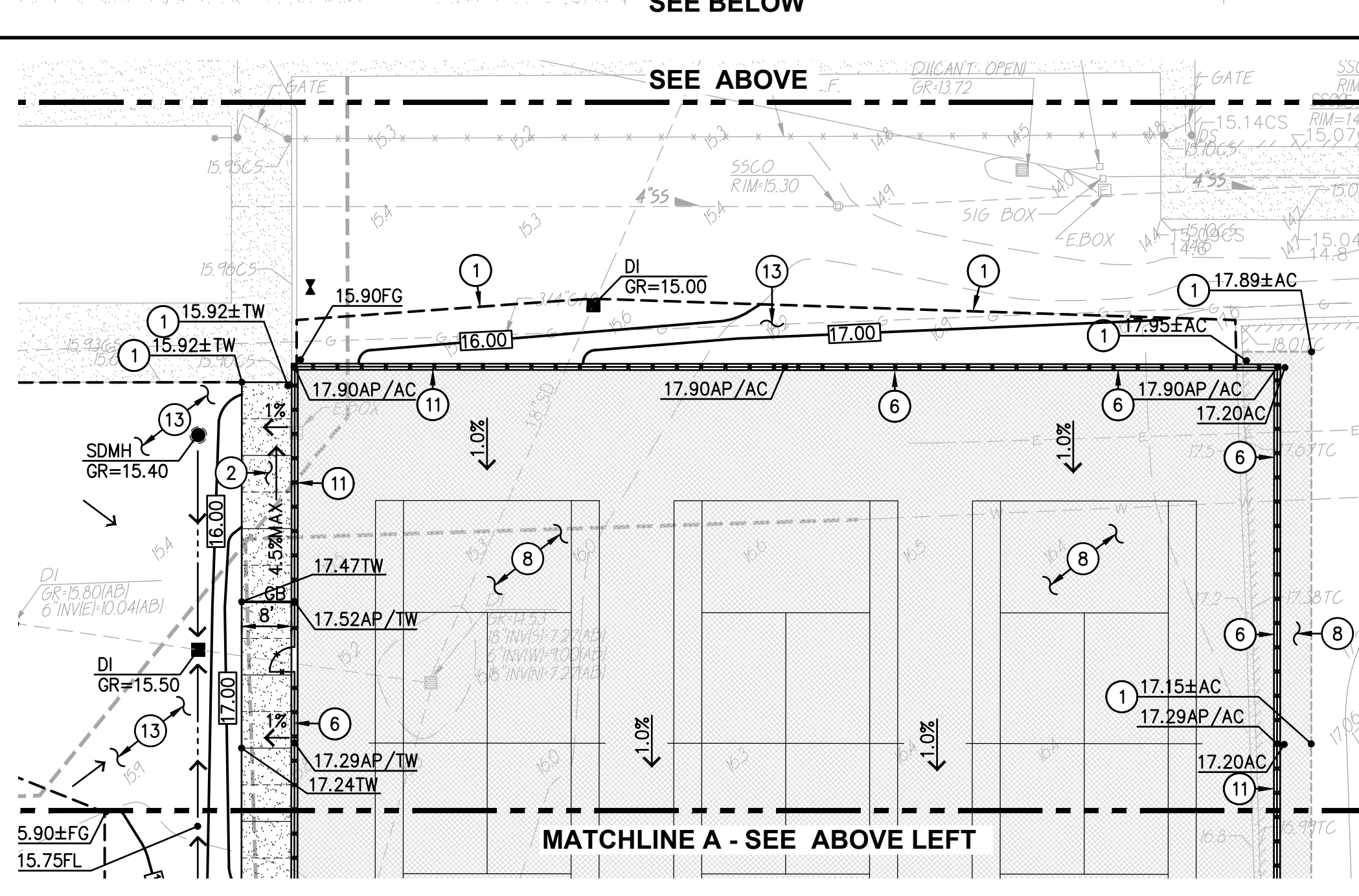
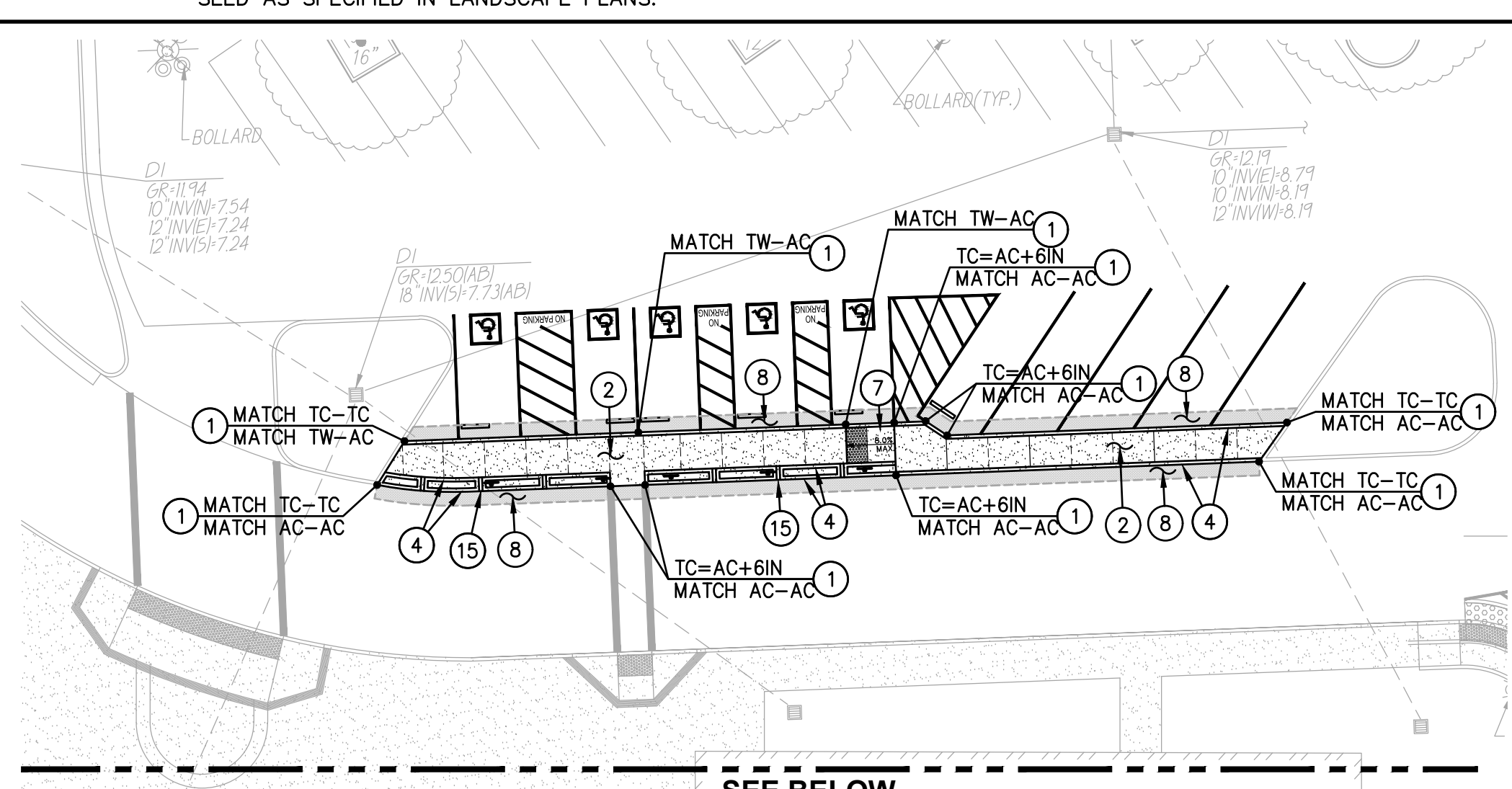
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TITLE  
**ENGINEERED FILL PLAN**

SHEET  
**CG101**



- LEGEND**
- CONSTRUCTION NOTES**  
 NOT ALL NOTES MAY BE USED ON THIS SHEET
- MATCH EXISTING GRADE/ELEVATION, WHEN MATCHING NEW SLABS TO EXISTING, DOWEL SLABS PER THE DETAIL PROVIDED. DOWEL SPACING SHALL MATCH SLAB REINFORCING SPACING.
  - 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.
  - CONSTRUCT CONCRETE VALLEY GUTTER PER THE DETAIL PROVIDED.
  - CONSTRUCT CONCRETE CURB PER THE DETAIL PROVIDED.
  - CONSTRUCT CONCRETE RETAINING CURB PER THE DETAIL PROVIDED.
  - CONSTRUCT 12" WIDE CONCRETE APRON WITH FENCING PER THE DETAIL PROVIDED. SEE ARCH. AND LANDSCAPE PLANS FOR NEW FENCING.
  - CONSTRUCT TYPE 1 ACCESSIBLE CURB RAMP PER THE DETAIL PROVIDED.
  - 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.
  - CONSTRUCT FLUSH CONCRETE CURB/EDGE PER THE DETAIL PROVIDED.
  - 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 GRADED.
  - CONSTRUCT 12" WIDE RAISED CONCRETE APRON AT NEW OR EXISTING FENCING PER THE DETAIL PROVIDED. SEE ARCH. AND LANDSCAPE PLANS FOR FENCING.
  - 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.
  - 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.
  - REPLACE EXISTING UTILITY BOX WITH NEW TRAFFIC RATED BOX SET AT PROPOSED FINISHED GRADE. BOX SIZE SHALL MEET OR EXISTING EXISTING VAULT SIZE. APPROVED BOXES SHALL BE JENSEN HT107, HT1324, HT1730, HT2436 OR HT3048, OR APPROVED EQUAL. SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION.
  - CONSTRUCT 6" WIDE NOTCH IN 24" WIDE MEDIAN. NOTCHES SHALL BE FLUSH WITH PAVING TO ALLOW DRAINAGE AND SHALL BE AT 7' O.C. MAX
  - CONSTRUCT CONCRETE TRENCH DRAIN WITH FENCE APRON PER THE DETAIL PROVIDED.
  - CONSTRUCT CONCRETE STAIRWAY WITH EDGE CURBS. REFER TO LANDSCAPE DETAILS FOR RAILINGS AND CIVIL DETAIL FOR CONC.
  - CONSTRUCT 6" WIDE CONCRETE PLANTING EDGE CURB PER THE DETAIL PROVIDED.
  - CONSTRUCT CONCRETE RETAINING CURB PER THE DETAIL PROVIDED.
  - CONSTRUCT CONCRETE MATERIAL STORAGE ENCLOSURE PER THE DETAIL PROVIDED.
  - SEE PAVING PLAN FOR NEW SURFACING. FINISH GRADE SHALL MATCH THE EXISTING AC FINISHED GRADE.
  - 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. NEW SYNTHETIC TURF AND BASE. SEE LANDSCAPE PLANS AND SPECIFICATIONS.



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CONSULTANT

**WC** REGISTERED PROFESSIONAL ENGINEER  
 ANTHONY J. TASSANO  
 No. C74896  
 State of California  
 1/10/2023

**PROJECT**  
 LUTHER BURBANK HIGH SCHOOL  
 ATHLETIC FIELDS RENOVATION

3500 FLORIN ROAD  
 SACRAMENTO, CA 95823

**CLIENT**  
 SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

5735 47TH AVENUE, SACRAMENTO, CA 95824

**ISSUED**

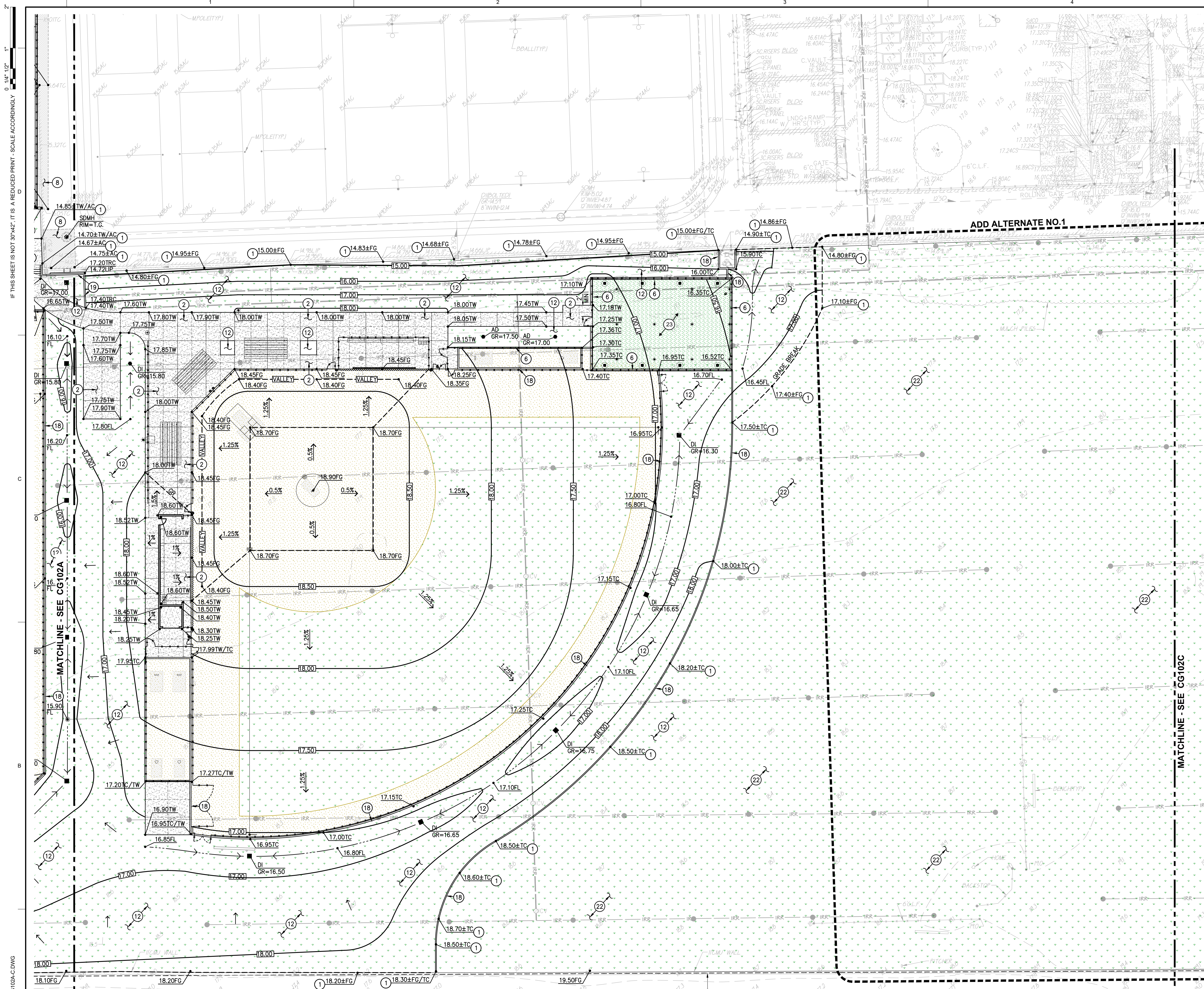
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**MANAGEMENT**

LIONAKIS PROJECT NO.	023041
DSA APPLICATION NO.	02-121593
CLIENT PROJECT NO.	#####
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**TITLE**  
 GRADING PLAN

**SHEET**  
 CG102A



**PAVEMENT SLOPES**  
 ALL PAVING SURFACES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE GENERAL PAVING SURFACE NOTES ON SHEET C101, CLARIFIED AS FOLLOWS:  
 • CONCRETE FLATWORK - ALL - PER GENERAL PAVING SURFACE NOTES ON SHEET C101.  
 • ASPHALT PAVING, CROSSWALK - PER GENERAL PAVING SURFACE NOTES ON SHEET C101.  
 • ASPHALT PAVING, ACCESSIBLE PARKING & LOADING - 1.8% MAX ANY DIRECTION.  
 • ASPHALT PAVING, ACCESSIBLE 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.

**LEGEND** **CONSTRUCTION NOTES**  
 NOT ALL NOTES MAY BE USED ON THIS SHEET

- MATCH EXISTING GRADE/ELEVATION. WHEN MATCHING NEW SLABS TO EXISTING, DOWEL SPACING PER THE DETAIL PROVIDED. DOWEL SPACING SHALL MATCH SLAB REINFORCING SPACING. (3) (CS501)
- CONSTRUCT 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) (2) (3) (CS501) (CS501)
- CONSTRUCT CONCRETE VALLEY GUTTER PER THE DETAIL PROVIDED. (12) (CS501)
- CONSTRUCT CONCRETE CURB PER THE DETAIL PROVIDED. (5) (CS501)
- CONSTRUCT CONCRETE RETAINING CURB PER THE DETAIL PROVIDED. (7) (CS501)
- CONSTRUCT 12" WIDE CONCRETE APRON WITH FENCING PER THE DETAIL PROVIDED. SEE ARCH. AND LANDSCAPE PLANS FOR NEW FENCING. (14) (CS501)
- CONSTRUCT TYPE 1 ACCESSIBLE CURB RAMP PER THE DETAIL PROVIDED. (16) (CS501)
- 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)
- CONSTRUCT FLUSH CONCRETE CURB/EDGE PER THE DETAIL PROVIDED. (8) (CS501)
- GRADE AND CONSTRUCT UNIFORM DRAINAGE SWALE IN FINISHED GRADE RUNNING. MATCH EXISTING CONDITIONS. IF NO EXISTING 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. (17) (CS501)
- CONSTRUCT 12" WIDE RAISED CONCRETE APRON AT NEW OR EXISTING FENCING PER THE DETAIL PROVIDED. SEE ARCH. AND LANDSCAPE PLANS FOR FENCING. (17) (CS501)
- 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. (11) (CS502)
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- REPLACE EXISTING UTILITY BOX WITH NEW TRAFFIC RATED BOX SET AT PROPOSED FINISHED GRADE. BOX SIZE SHALL MEET OR EXISTING EXISTING VAULT SIZE. APPROVED BOXES SHALL BE JENSEN HT1017, HT1324, HT1730, HT2436 OR HT3048, OR APPROVED EQUAL. SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION. (7) (CS501)
- CONSTRUCT 6" WIDE NOTCH IN 24" WIDE MEDIAN. NOTCHES SHALL BE FLUSH WITH PAVING TO ALLOW DRAINAGE AND SHALL BE AT 7' O.C. MAX. (11) (CS502)
- CONSTRUCT CONCRETE TRENCH DRAIN WITH FENCE APRON PER THE DETAIL PROVIDED. (11) (CS502)
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**LIONAKIS**

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 CONSULTANT  
**WC** ANTHONY J. TASSANO  
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 1102023  
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 1117 WINDFIELD WAY, SUITE 110  
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PROJECT  
**LUTHER BURBANK HIGH SCHOOL  
 ATHLETIC FIELDS RENOVATION**

3500 FLORIN ROAD  
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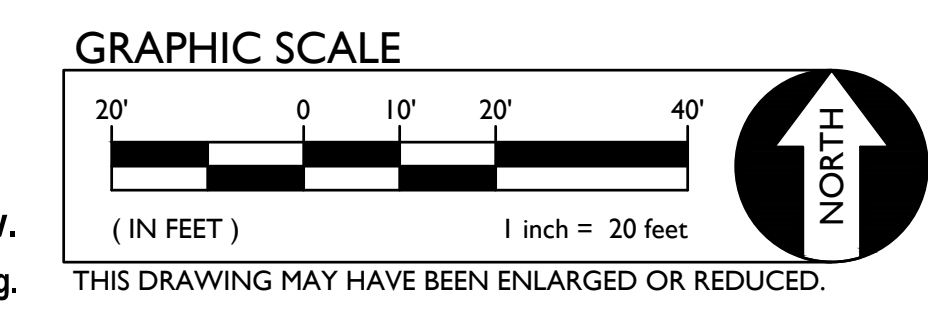
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MANAGEMENT

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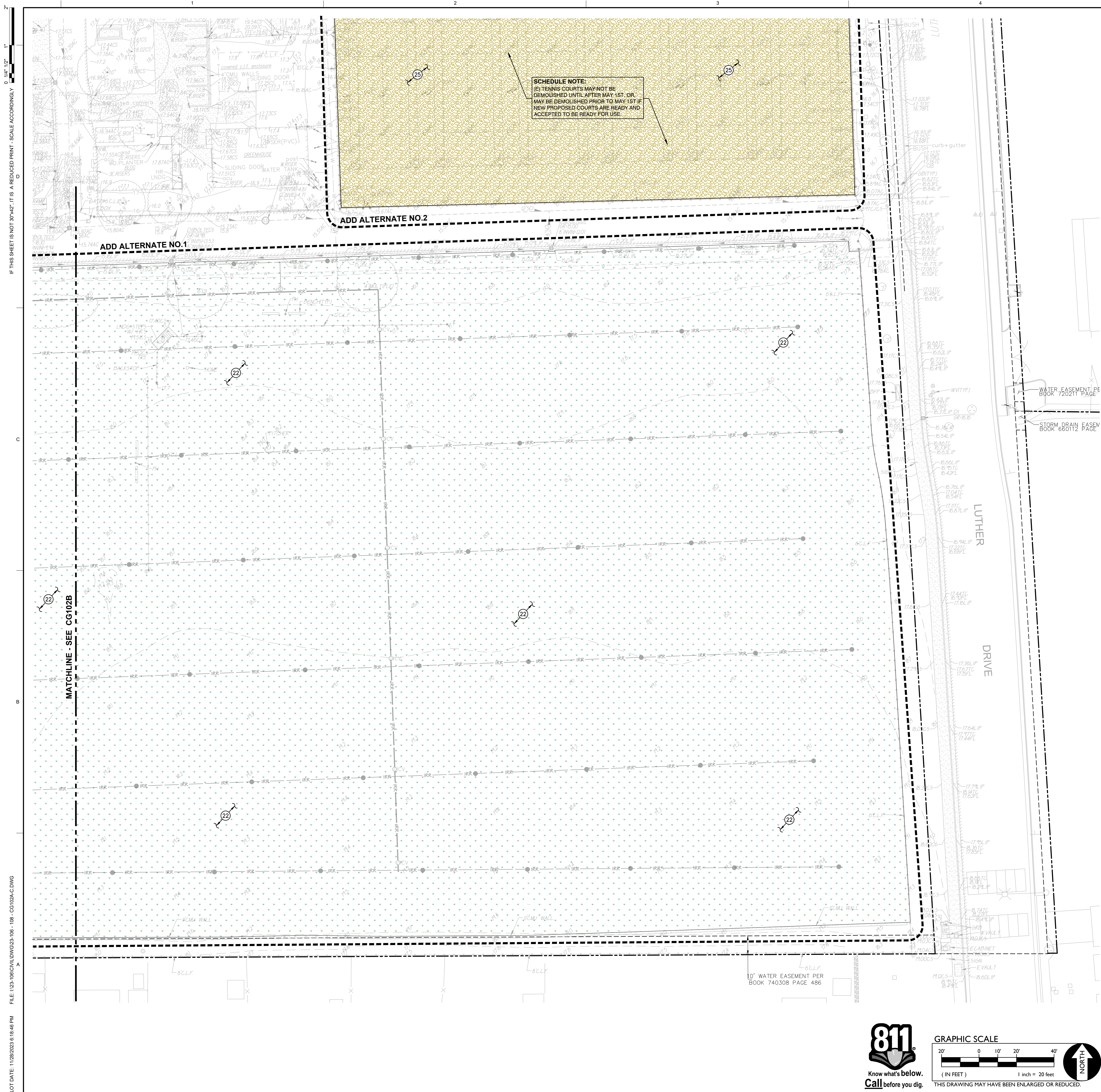
TITLE  
**GRADING PLAN**

SHEET  
**CG102B**



IF THIS SHEET IS NOT 30"x42" IT IS A REDUCED PRINT - SCALE ACCORDINGLY 0 1/4" = 1'  
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PLOT DATE: 11/28/2023 6:18:30 PM FILENAME: I:\23-106\CIVIL\DWG\23-106-108-CG102A-C.DWG



**SCHEDULE NOTE:**  
THE TENNIS COURTS MAY NOT BE DEMOLISHED UNTIL AFTER MAY 1ST. OR MAY BE DEMOLISHED PRIOR TO MAY 1ST IF NEW PROPOSED COURTS ARE READY AND ACCEPTED TO BE READY FOR USE.

**PAVEMENT SLOPES**  
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- CONSTRUCT FLUSH CONCRETE CURB/EDGE PER THE DETAIL PROVIDED. (8) (CS501)
- 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. (17) (CS501)
- CONSTRUCT 12" WIDE RAISED CONCRETE APRON AT NEW OR EXISTING FENCING PER THE DETAIL PROVIDED. SEE ARCH. AND LANDSCAPE PLANS FOR FENCING. (17) (CS501)
- 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. (7) (CS501)
- 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. (7) (CS501)
- REPLACE EXISTING UTILITY BOX WITH NEW TRAFFIC RATED BOX SET AT PROPOSED FINISHED GRADE. BOX SIZE SHALL MEET OR EXISTING EXISTING VAULT SIZE. APPROVED BOXES SHALL BE JENSEN HT1017, HT1324, HT1730, HT2436 OR HT3048, OR APPROVED EQUAL. SEE ELECTRICAL PLANS FOR ADDITIONAL INFORMATION. (9) (CS501)
- CONSTRUCT 6" WIDE NOTCH IN 24" WIDE MEDIAN. NOTCHES SHALL BE FLUSH WITH PAVING TO ALLOW DRAINAGE AND SHALL BE AT 7' O.C. MAX. (7) (CS501)
- CONSTRUCT CONCRETE TRENCH DRAIN WITH FENCE APRON PER THE DETAIL PROVIDED. (11) (CS502)
- CONSTRUCT CONCRETE STAIRWAY WITH EDGE CURBS. REFER TO LANDSCAPE DETAILS FOR RAILINGS AND CIVIL DETAIL FOR CONC. (7) (CS501)
- CONSTRUCT 6" WIDE CONCRETE PLANTING EDGE CURB PER THE DETAIL PROVIDED. (9) (CS501)
- CONSTRUCT CONCRETE RETAINING CURB PER THE DETAIL PROVIDED. (7) (CS501)
- CONSTRUCT CONCRETE MATERIAL STORAGE ENCLOSURE PER THE DETAIL PROVIDED. (18) (CS501)
- SEE PAVING PLAN FOR NEW SURFACING. FINISH GRADE SHALL MATCH THE EXISTING AC FINISHED GRADE. (7) (CS501)
- 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. (7) (CS501)
- NEW DG PAVING, SEE PAVING PLAN. (7) (CS501)

**LIONAKIS**

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CONSULTANT

**WC** REGISTERED PROFESSIONAL ENGINEER  
ANTHONY J. TASSANO  
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1102023

WARREN CONSULTING ENGINEERS, INC.  
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EL CERRILLO HILLS, CA 95701 (916) 985-1870

PROJECT  
**LUTHER BURBANK HIGH SCHOOL  
ATHLETIC FIELDS RENOVATION**

3500 FLORIN ROAD  
SACRAMENTO, CA 95823

CLIENT  
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

5735 47TH AVENUE, SACRAMENTO, CA 95824

ISSUED

MARK	DATE	DESCRIPTION
-	8.10.2023	DSA SUBMITTAL
-	12/01/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

LIONAKIS PROJECT NO:	023041
DSA APPLICATION NO:	02-121593
CLIENT PROJECT NO:	####
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TITLE  
**GRADING PLAN**

SHEET  
**CG102C**

**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**

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

FILE: I:\23-106\CIVIL\DWG\23-106-108-CG102A-C.DWG  
PLOT DATE: 11/28/2023 6:18:46 PM



0 1/4" = 12' 1" SCALE ACCORDINGLY  
 IF THIS SHEET IS NOT 30"x42" IT IS A REDUCED PRINT - SCALE ACCORDINGLY  
 FILE: I:\23-106\CIVIL\DWG\23-106-108-CG102A-C.DWG  
 PLOT DATE: 11/28/2023 6:19:02 PM



- PAVEMENT SLOPES**
- ALL PAVING SURFACES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE GENERAL PAVING SURFACE NOTES ON SHEET C101, CLARIFIED AS FOLLOWS:
- CONCRETE FLATWORK - ALL - PER GENERAL PAVING SURFACE NOTES ON SHEET C101.
  - ASPHALT PAVING, CROSSWALK - PER GENERAL PAVING SURFACE NOTES ON SHEET C101.
  - 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.

- LEGEND**
- NOT ALL NOTES MAY BE USED ON THIS SHEET
1. MATCH EXISTING GRADE/ELEVATION, WHEN MATCHING NEW SLABS TO EXISTING, DOWEL SPACING PER THE DETAIL PROVIDED. DOWEL SPACING SHALL MATCH SLAB REINFORCING SPACING.
- (3) CS501

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CONSULTANT

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SEAL

PROJECT  
**LUTHER BURBANK HIGH SCHOOL  
 ATHLETIC FIELDS RENOVATION**

3500 FLORIN ROAD  
 SACRAMENTO, CA 95823

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

ISSUED

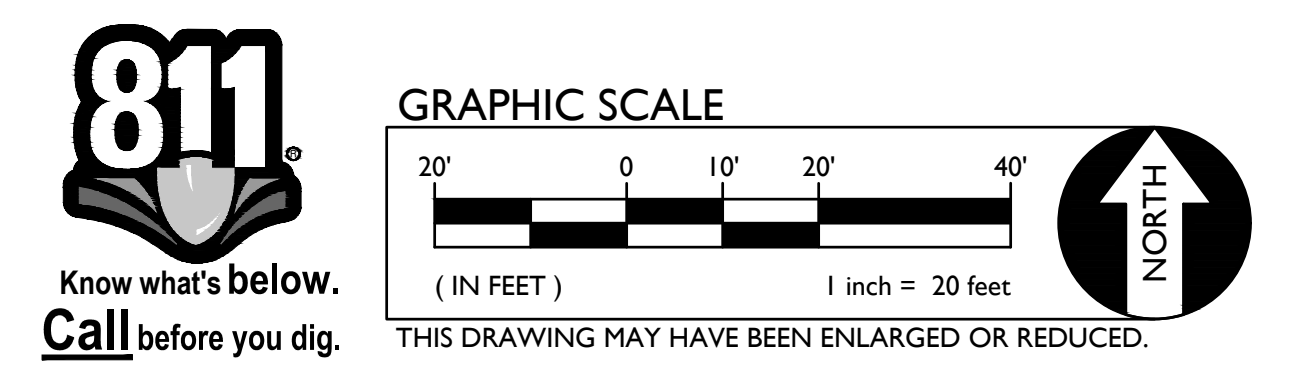
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TITLE  
**GRADING PLAN  
 ADD ALTERNATE NO.3**

SHEET  
**CG102D**



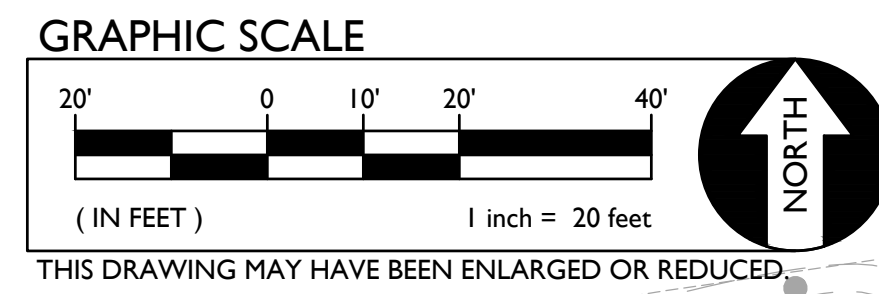
**UTILITY VERIFICATION NOTE**  
PRIOR TO THE START OF CONSTRUCTION, POTHOLE AND VERIFY ALL UTILITY POINTS OF CONNECTION TO EXISTING UTILITIES FOR LOCATION, DEPTH, AND SIZE. IF CONFLICT IS FOUND, CONTACT THE ENGINEER IMMEDIATELY FOR DIRECTION.

**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.

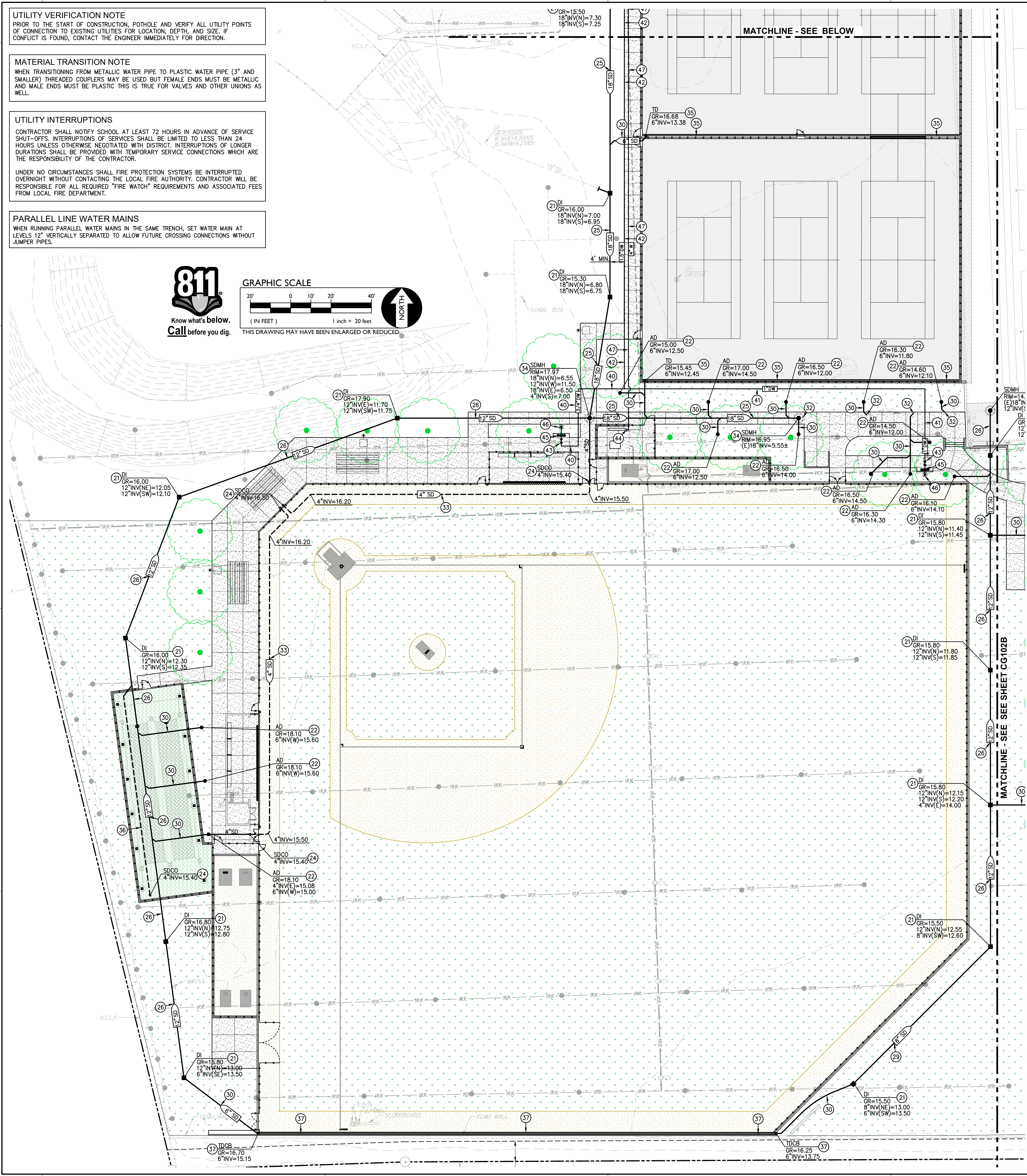
**UTILITY INTERRUPTIONS**  
CONTRACTOR SHALL NOTIFY SCHOOL AT LEAST 72 HOURS IN ADVANCE OF SERVICE SHUT-OFFS. INTERRUPTIONS OF SERVICES SHALL BE LIMITED TO LESS THAN 24 HOURS UNLESS OTHERWISE NEGOTIATED WITH DISTRICT. INTERRUPTIONS OF LONGER DURATIONS SHALL BE PROVIDED WITH TEMPORARY SERVICE CONNECTIONS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



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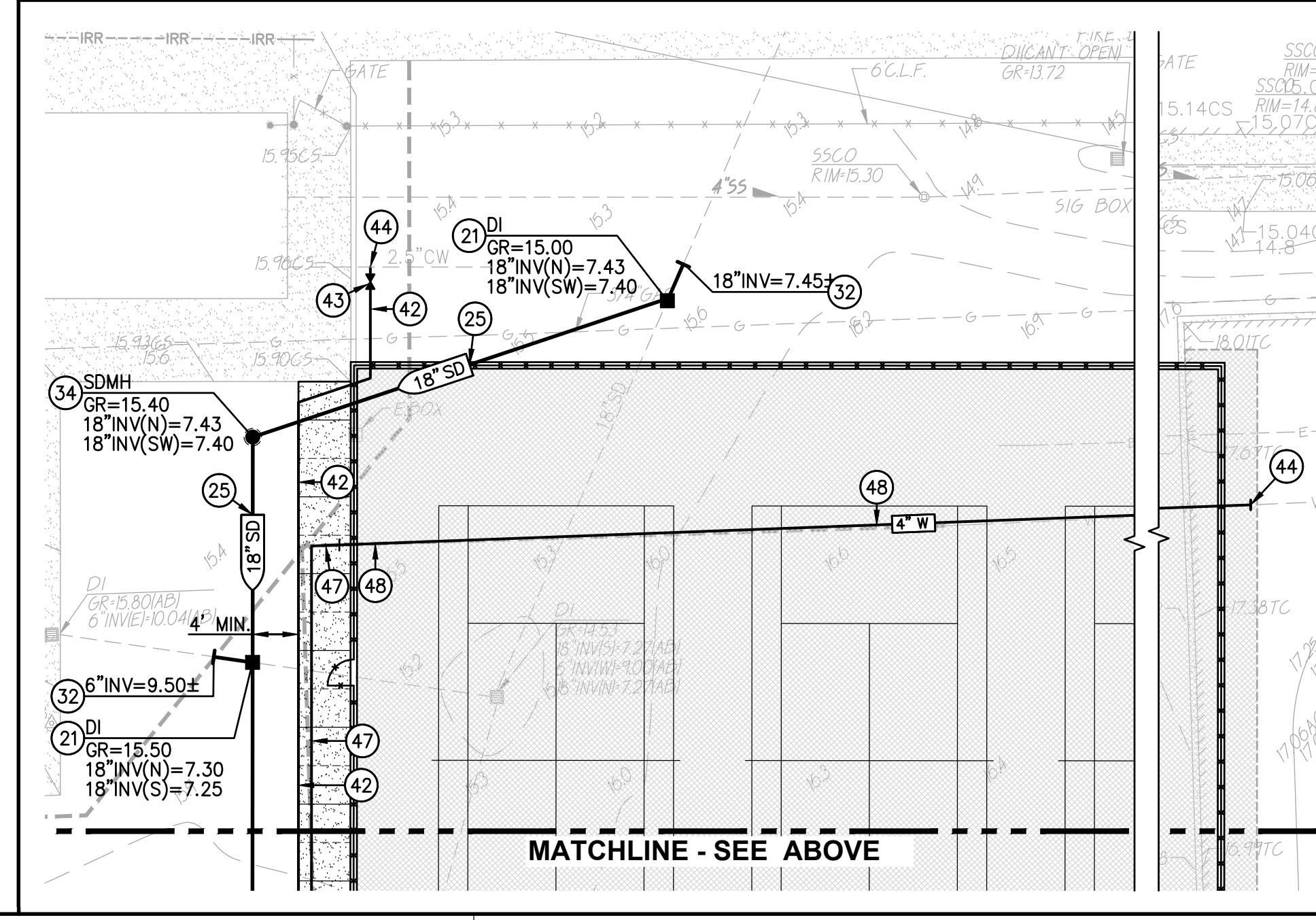
**UTILITY VERIFICATION NOTE**  
PRIOR TO THE START OF CONSTRUCTION, POTHOLE AND VERIFY ALL UTILITY POINTS OF CONNECTION TO EXISTING UTILITIES FOR LOCATION, DEPTH, AND SIZE. IF CONFLICT IS FOUND, CONTACT THE ENGINEER IMMEDIATELY FOR DIRECTION.

**7 DRAINAGE CONSTRUCTION NOTES**

- NOTE: NOT ALL OF THESE NOTES MAY BE USED ON THIS SHEET
- CONSTRUCT DROP INLET STRUCTURE PER THE DETAIL PROVIDED. (1) (CS502)
  - CONSTRUCT AREA DRAIN PER THE DETAIL PROVIDED. (5) (CS502)
  - CONSTRUCT PLANTER DRAIN PER THE DETAIL PROVIDED. (9) (CS502)
  - CONSTRUCT STORM DRAIN CLEANOUT PER THE DETAIL PROVIDED. (2) (CS502)
  - PROVIDE AND INSTALL 18" STORM DRAIN, PVC SDR-35 OR HDPE SLOPE VARIES PER INVERTS SHOWN, BUT 0.0025 MIN. (0.25%) (3) (CS502)
  - PROVIDE AND INSTALL 12" STORM DRAIN, PVC SDR-35 OR HDPE SLOPE VARIES PER INVERTS SHOWN, BUT 0.0025 MIN. (0.25%) (3) (CS502)
  - PROVIDE AND INSTALL 10" STORM DRAIN, PVC SDR-35 OR HDPE SLOPE VARIES PER INVERTS SHOWN, BUT 0.0035 MIN. (0.35%) (3) (CS502)
  - PROVIDE AND INSTALL 8" STORM DRAIN, PVC SDR-35 OR HDPE SLOPE VARIES PER INVERTS SHOWN, BUT 0.005 MIN. (0.50%) (3) (CS502)
  - PROVIDE AND INSTALL 6" STORM DRAIN, PVC SDR-35. SLOPE VARIES PER INVERTS SHOWN, BUT 0.010 MIN. (1.00%) (3) (CS502)
  - PROVIDE AND INSTALL 4" STORM DRAIN, PVC SDR-35. SLOPE VARIES PER INVERTS SHOWN, BUT 0.0150 MIN. (1.50%) (3) (CS502)
  - 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. (3) (4) (CS502) (CS502)
  - CONSTRUCT 4" PERFORATED SUBDRAIN WITH DRAIN ROCK AND FILTER FABRIC BENEATH BALLFIELD CINDERS PER THE DETAIL PROVIDED. (20) (CS502)
  - CONSTRUCT 48" MANHOLE PER THE DETAIL PROVIDED. (16) (CS502)
  - CONSTRUCT TRENCH DRAIN & APRON WITH ACCESSIBLE COVER PER THE DETAIL PROVIDED. (11) (CS502)
  - CONSTRUCT 4" PERFORATED SUBDRAIN WITH DRAIN ROCK AND FILTER FABRIC BENEATH SYNTHETIC TURF PER THE DETAIL PROVIDED. (19) (CS502)
  - CONSTRUCT TRENCH DRAIN AT EXISTING WALL WITH ACCESSIBLE COVER PER THE DETAIL PROVIDED. (15) (CS502)

**7 DOMESTIC WATER CONSTRUCTION NOTES**

- PLACE 3/4" WATER LINE, COPPER TYPE K (HARD), OR APPROVED EQUAL. REFER TO TRENCHING DETAIL PROVIDED. (1) (CS503)
- PLACE 1.0" WATER LINE, COPPER TYPE K (HARD), OR APPROVED EQUAL. REFER TO TRENCHING DETAIL PROVIDED. (1) (CS503)
- PLACE 1.5" WATER LINE, COPPER TYPE K (HARD), OR APPROVED EQUAL. REFER TO TRENCHING DETAIL PROVIDED. (1) (CS503)
- INSTALL WATER VALVE AND TRAFFIC RATED VALVE BOX PER THE DETAIL PROVIDED. (2) (CS503)
- CONNECT TO EXISTING WATER MAIN. POTHOLE TO VERIFY LOCATION, SIZE AND CONDITION PRIOR TO CONSTRUCTION. IF CONFLICT IS FOUND, CONTACT ARCHITECT FOR DIRECTION. (4) (CS503)
- CONSTRUCT DRINKING FOUNTAIN PER THE DETAIL PROVIDED. (3) (CS503)
- CONSTRUCT DRINKING FOUNTAIN DRYWELL PER THE DETAIL PROVIDED. (3) (CS503)
- PLACE 4" WATER LINE, PVC C900, DR 18, OR APPROVED EQUAL. REFER TO TRENCHING AND THRUST BLOCKING PER THE DETAILS PROVIDED. (1) (5) (CS503) (CS503)
- BENEATH TENNIS COURT, PLACE 4" WATER LINE, PVC C900, DR 14 WITH JOINT RESTRAINTS AT ALL PIPE JOINTS. REFER TO TRENCHING AND THRUST BLOCKING PER THE DETAILS PROVIDED. (1) (5) (CS503) (CS503)



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CONSULTANT

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No. C74896  
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1010020

PROJECT  
**LUTHER BURBANK HIGH SCHOOL  
ATHLETIC FIELDS RENOVATION**

3500 FLORIN ROAD  
SACRAMENTO, CA 95823

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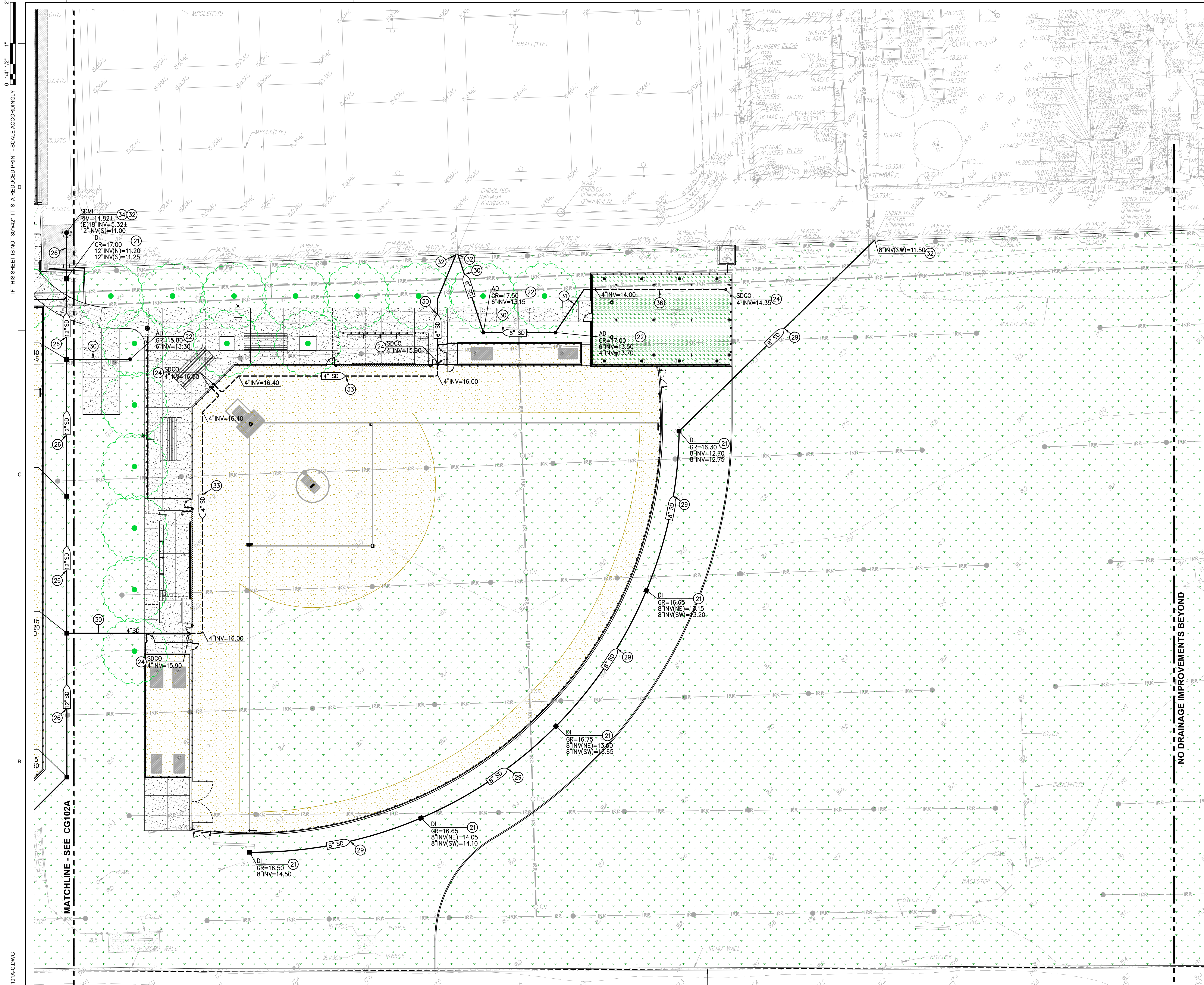
MANAGEMENT

LIONAKIS PROJECT NO:	023041
DSA APPLICATION NO:	02-121593
CLIENT PROJECT NO:	####
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TITLE  
**DRAINAGE AND  
SEWER PLAN**

**AREA A**

SHEET  
**CU101A**



**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.

- 7 DRAINAGE CONSTRUCTION NOTES**  
 NOTE: NOT ALL OF THESE NOTES MAY BE USED ON THIS SHEET
- CONSTRUCT DROP INLET STRUCTURE PER THE DETAIL PROVIDED. (1) (CS502)
  - CONSTRUCT AREA DRAIN PER THE DETAIL PROVIDED. (5) (CS502)
  - CONSTRUCT PLANTER DRAIN PER THE DETAIL PROVIDED. (9) (CS502)
  - CONSTRUCT STORM DRAIN CLEANOUT PER THE DETAIL PROVIDED. (2) (CS502)
  - PROVIDE AND INSTALL 18" STORM DRAIN, PVC SDR-35 OR HDPE. SLOPE VARIES PER INVERTS SHOWN, BUT 0.0025 MIN. (0.25%) (3) (CS502)
  - PROVIDE AND INSTALL 12" STORM DRAIN, PVC SDR-35 OR HDPE. SLOPE VARIES PER INVERTS SHOWN, BUT 0.0025 MIN. (0.25%) (3) (CS502)
  - PROVIDE AND INSTALL 10" STORM DRAIN, PVC SDR-35 OR HDPE. SLOPE VARIES PER INVERTS SHOWN, BUT 0.0035 MIN. (0.35%) (3) (CS502)
  - PROVIDE AND INSTALL 8" STORM DRAIN, PVC SDR-35 OR HDPE. SLOPE VARIES PER INVERTS SHOWN, BUT 0.005 MIN. (0.50%) (3) (CS502)
  - PROVIDE AND INSTALL 6" STORM DRAIN, PVC SDR-35. SLOPE VARIES PER INVERTS SHOWN, BUT 0.010 MIN. (1.00%) (3) (4) (CS502) (CS507)
  - PROVIDE AND INSTALL 4" STORM DRAIN, PVC SDR-35. SLOPE VARIES PER INVERTS SHOWN, BUT 0.0150 MIN. (1.50%) (3) (4) (CS502) (CS507)
  - 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.
  - CONSTRUCT 4" PERFORATED SUBDRAIN WITH DRAIN ROCK AND FILTER FABRIC BENEATH BALLFIELD CINDERS PER THE DETAIL PROVIDED. (19) (CS507)
  - CONSTRUCT 48" MANHOLE PER THE DETAIL PROVIDED. (14) (CS507)
  - CONSTRUCT TRENCH DRAIN & APRON WITH ACCESSIBLE COVER PER THE DETAIL PROVIDED. (11) (CS502)
  - CONSTRUCT 4" PERFORATED SUBDRAIN WITH DRAIN ROCK AND FILTER FABRIC BENEATH SYNTHETIC TURF PER THE DETAIL PROVIDED. (20) (CS507)
  - CONSTRUCT TRENCH DRAIN AT EXISTING WALL WITH ACCESSIBLE COVER PER THE DETAIL PROVIDED. (15) (CS502)

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SEAL

PROJECT  
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 ATHLETIC FIELDS RENOVATION**

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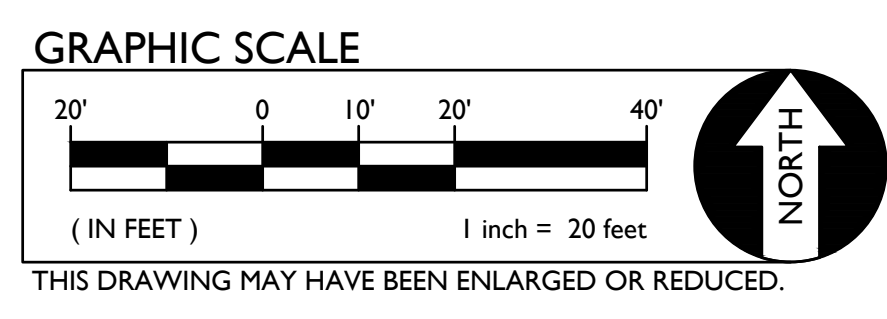
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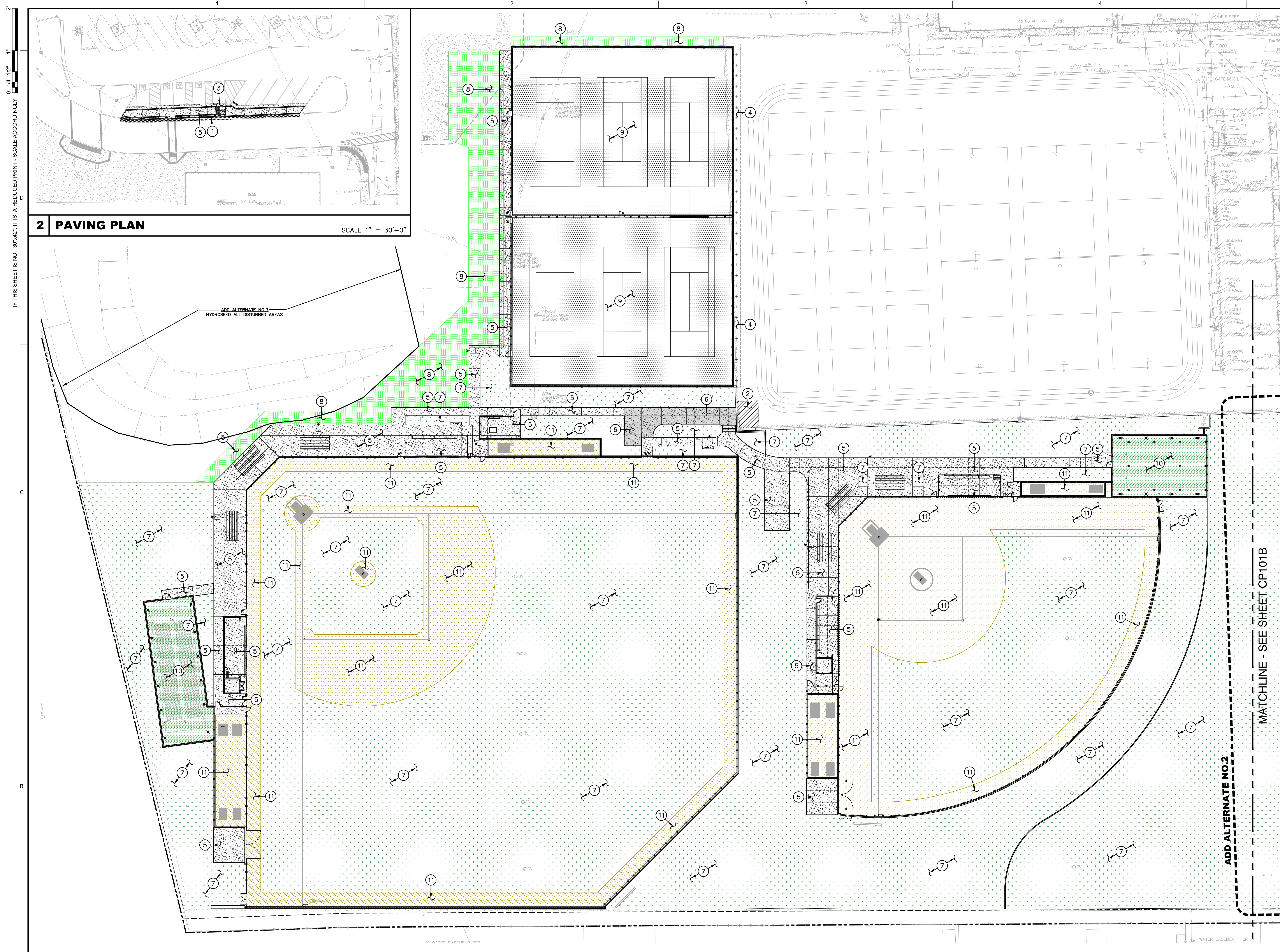
TITLE  
**DRAINAGE AND  
 SEWER PLAN**

AREA B

SHEET  
**CU101B**

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**PAVING GENERAL NOTES:**

- ASPHALT MIX SHALL MEET CALTRANS SPECIFICATIONS FOR TYPE B ASPHALTIC CONCRETE. REFERENCE CALTRANS SPECIFICATION SECTION 39, AND PROJECT SPECIFICATIONS.
- AGGREGATE BASE SHALL MEET CALTRANS SPECIFICATIONS FOR CLASS II AB, REFERENCE CALTRANS SPECIFICATION SECTION 26, AND PROJECT SPECIFICATIONS.
- ALL AGGREGATE BASE SHALL BE MOISTURE CONDITIONED TO, OR SLIGHTLY ABOVE, OPTIMUM MOISTURE CONTENT AND COMPACTED TO 95% RELATIVE COMPACTION.
- 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.
- 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.
- 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.
- REFER TO GRADING PLANS FOR CURBS, CURB GUTTERS, VALLEY GUTTERS, AND OTHER CONCRETE STRUCTURES AND PAVING FEATURES NOT SPECIFICALLY NOTED ON THIS PLAN.
- ALL NEW ASPHALT PAVING SHALL RECEIVE SEALCOAT, 2 COATS. MIN. REFER TO PROJECT SPECIFICATIONS. CONTRACTOR SHALL ALLOW FOR 30 DAYS MIN. OF ASPHALT PAVEMENT CURING PRIOR TO SEALCOAT PLACEMENT. IF CONTRACTOR'S 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**

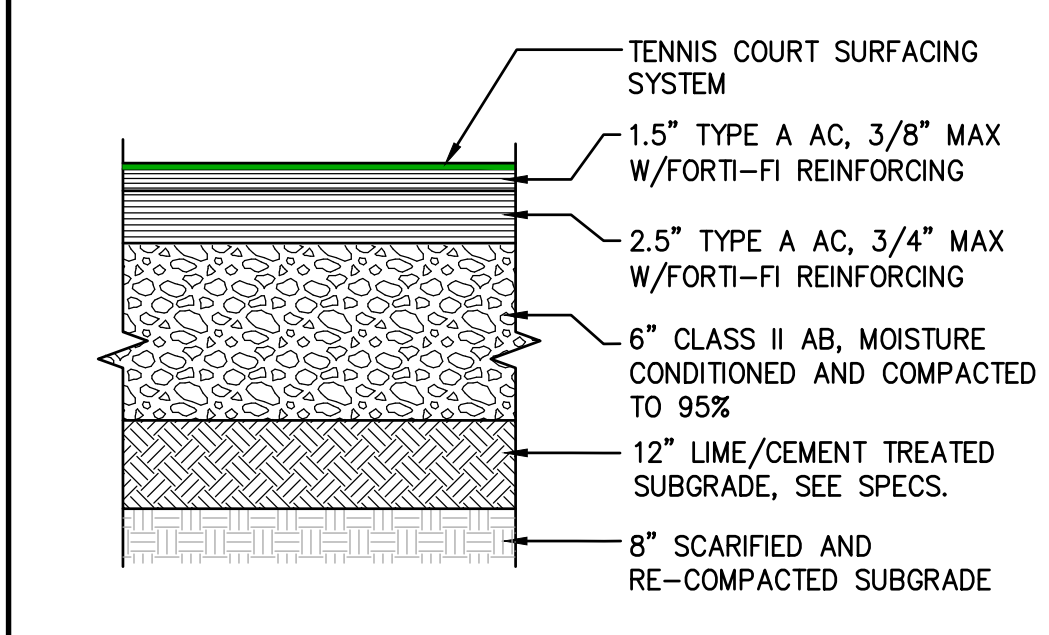
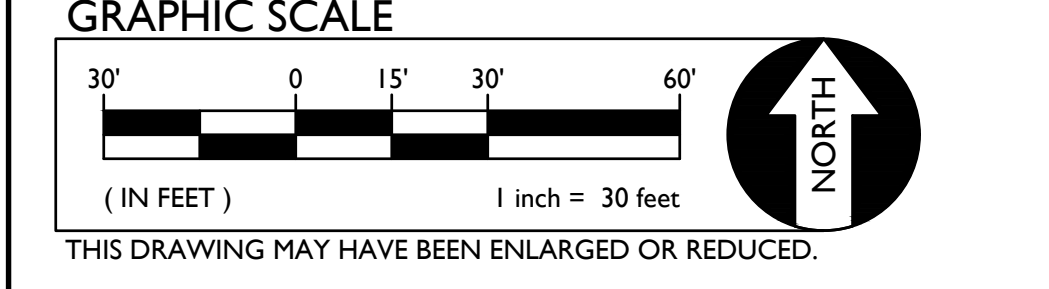
- REFER TO ARCHITECTURAL PLANS FOR ANY SPECIAL CONCRETE FINISHES SPECIFIED WHICH SHALL OVERRIDE THOSE SPECIFIED BELOW.
- PROVIDE MEDIUM BROOM FINISH AT SLOPES UP TO 4.99% TYPICAL, OR EQ.
  - PROVIDE HEAVY BROOM FINISH AT SLOPES 5.00% AND GREATER, OR EQ.

**REBAR OPTIONS**

- AT CONTRACTORS OPTION:
- #4 @ 24" O.C.E.W. = #3 @ 18" O.C.E.W.
  - #4 @ 18" O.C.E.W. = #3 @ 12" O.C.E.W.

**LIME EXCAVATION**

- NOTE: WHERE LIME TREATMENT OF PAVEMENT SUBGRADE ENROACHES INTO PROPOSED PLANTING AREAS, FOLLOWING PLACEMENT OF PAVING, ENROACHED LIME TREATED SOILS SHALL BE EXCAVATED 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:
- TREAT SOIL WITH LIME AT SEPARATE LOCATION AND THEN PLACE, COMPACT AND CURE WHERE NEEDED, SEE SECTION 31.32.00.
  - 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.



**1 TYPICAL COURT SECTION**  
CP101A NO SCALE

**2 PAVING PLAN**

SCALE 1" = 30'-0"

**1 PAVING PLAN**

- PAVING LEGEND - LIME TREATED SUBGRADE (RECOMMENDED)**  
SUBGRADE PREPARATION VARIES WITH PAVING SECTIONS. SEE SHEET C3.0 AND SPECIFICATIONS.
- TYPE 1 PAVING - HEAVY DRIVE ISLES & BUS & FIRE LANES**  
PLACE 4" AC OVER 7.0" 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.
  - TYPE 2 PAVING - LIGHT DRIVE ISLES**  
PLACE 3.5" 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.
  - TYPE 3 PAVING - PARKING STALLS**  
PLACE 3.0" AC OVER 4.0" 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.
  - TYPE 4 PAVING - HARD COURTS**  
PLACE 3.0" AC OVER 4.0" 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.

- PAVING LEGEND - NATIVE SUBGRADES**  
SUBGRADE PREPARATION VARIES WITH PAVING SECTIONS. SEE SHEET C3.0 AND SPECIFICATIONS.
- TYPE 5 PAVING - PEDESTRIAN RATED (NON-TRAFFIC)**  
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.
  - TYPE 6 PAVING - VEHICULAR RATED**  
PLACE 7" PCC, 3500 PSI MIN., OVER 6" 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 18" O.C.E.W. CONCRETE SHALL BE PER SECTION 32.16.00. REFER ALSO TO DETAILS PROVIDED.

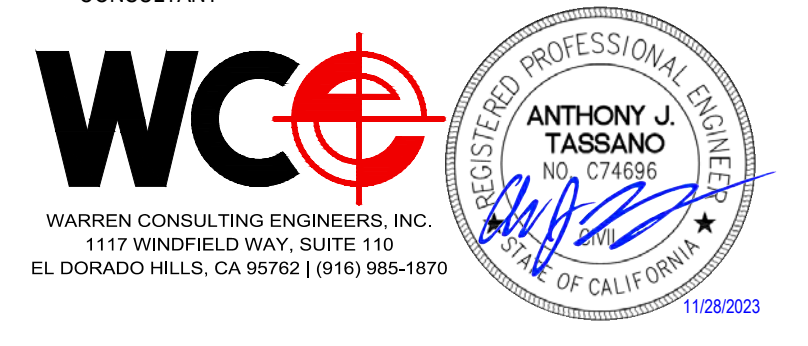
- PAVING LEGEND - NATIVE SUBGRADES**  
SUBGRADE PREPARATION VARIES WITH PAVING SECTIONS. SEE SHEET C3.0 AND SPECIFICATIONS.
- TYPE 1 PAVING - HEAVY DRIVE ISLES & BUS & FIRE LANES**  
PLACE 4" AC OVER 16.0" CLASS II AB OVER NATIVE SUBGRADE PREPARED IN ACCORDANCE WITH THE SPECIFICATIONS. SUBGRADE SHALL BE PLACED AND COMPACTED PER SPECIFICATION SECTION 31.00.00. ASPHALT PER SPECIFICATION SECTION 32.12.00. PROVIDE SEALCOAT PER SPECIFICATIONS, 2 COATS.
  - TYPE 2 PAVING - LIGHT DRIVE ISLES**  
PLACE 3.5" 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.
  - TYPE 3 PAVING - PARKING STALLS**  
PLACE 3.0" AC OVER 9.0" 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.
  - TYPE 4 PAVING - HARD COURTS**  
PLACE 3.0" AC OVER 10.0" 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.

- PAVING LEGEND - NATIVE SUBGRADES**  
SUBGRADE PREPARATION VARIES WITH PAVING SECTIONS. SEE SHEET C3.0 AND SPECIFICATIONS.
- TYPE 5 PAVING - PEDESTRIAN RATED (NON-TRAFFIC)**  
PLACE 5" PCC OVER 5" 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.
  - TYPE 6 PAVING - VEHICULAR RATED**  
PLACE 7" PCC, 3500 PSI MIN., OVER 8" CLASS II AB OVER NATIVE SUBGRADE PREPARED IN ACCORDANCE WITH THE SPECIFICATIONS. PROVIDE #4 BARS AT 18" 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.
  - TYPE 7 SURFACING - LANDSCAPE AREA**  
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.

- PAVING LEGEND - NATIVE SUBGRADES**  
SUBGRADE PREPARATION VARIES WITH PAVING SECTIONS. SEE SHEET C3.0 AND SPECIFICATIONS.
- 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.
  - 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 6" CLASS II AB, ON 12" DEEP LIME TREATED SUBGRADE. ENGINEERED FILL AND SUBGRADE SHALL BE PLACED AND COMPACTED PER SPECIFICATION SECTION 31.22.00 AND 31.23.00. ASPHALT PER SPECIFICATION SECTION 32.12.00 AND 32.12.16.25. SEE STRIPING AND SURFACING PLAN FOR TENNIS COURT SURFACING AND SECTION 32.18.23.
  - TYPE 10 SURFACING - SYNTHETIC TURF**  
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.
  - TYPE 11 SURFACING - INFIELD MIX AND BASEBALL/SOFTBALL SURFACING.**  
SEE LANDSCAPE PLANS AND SPECS.



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PROJECT  
**LUTHER BURBANK HIGH SCHOOL  
ATHLETIC FIELDS RENOVATION**

3500 FLORIN ROAD  
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CLIENT  
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT  
5735 47TH AVENUE, SACRAMENTO, CA 95824

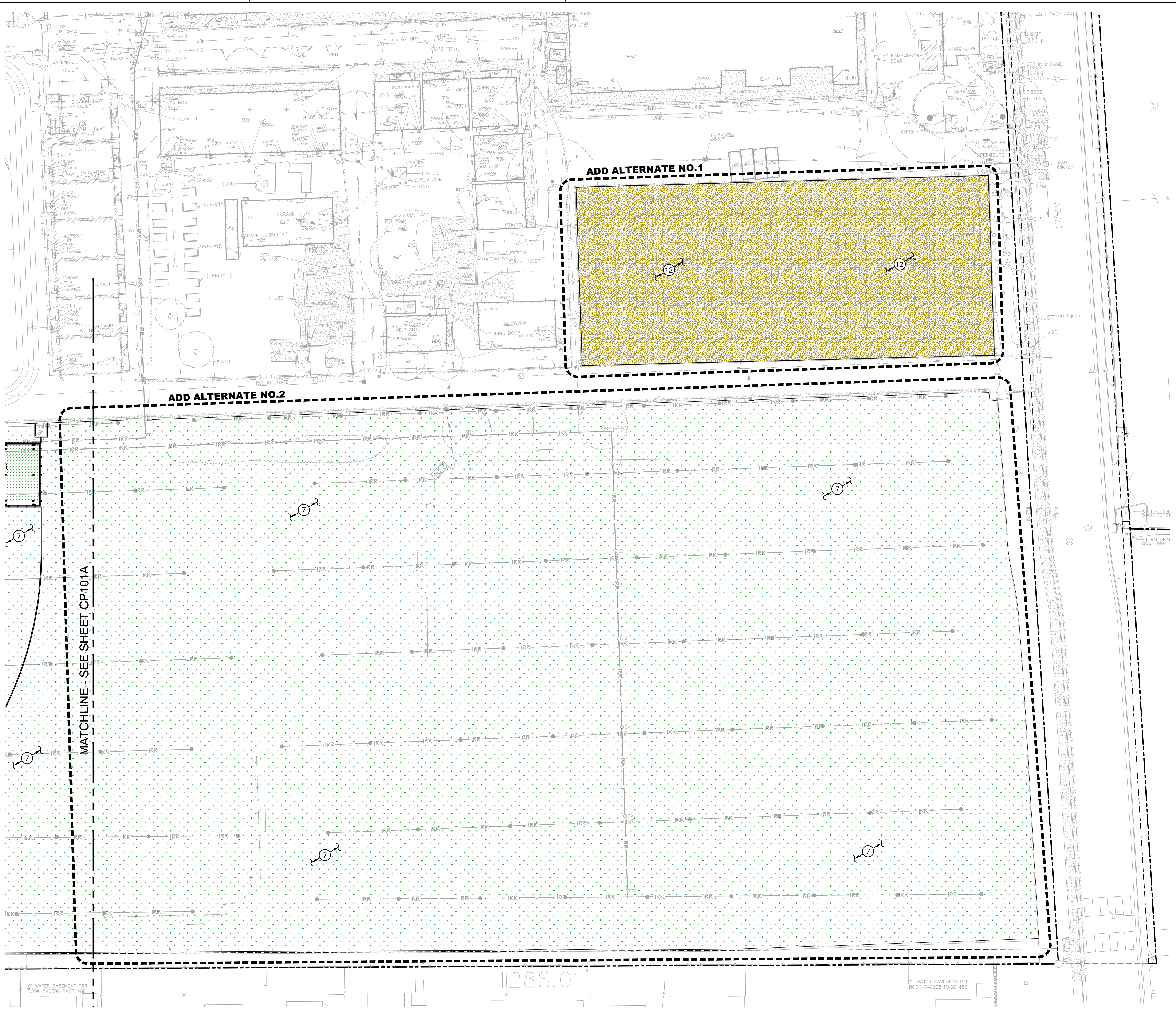
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MANAGEMENT	
LIONAKIS PROJECT NO.	023041
DSA APPLICATION NO.	02-121593
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TITLE  
**PAVING PLAN**

SHEET  
**CP101A**

PLOT DATE: 11/28/2023 8:14:48 AM FILE: I:\23-106\CIVIL\DWG\23-106-111-CP101.DWG



**PAVING GENERAL NOTES:**

- ASPHALT MIX SHALL MEET CALTRANS SPECIFICATIONS FOR TYPE B ASPHALTIC CONCRETE. REFERENCE CALTRANS SPECIFICATION SECTION 39, AND PROJECT SPECIFICATIONS.
- AGGREGATE BASE SHALL MEET CALTRANS SPECIFICATIONS FOR CLASS II AGGREGATE BASE. REFERENCE CALTRANS SPECIFICATION SECTION 26, AND PROJECT SPECIFICATIONS.
- ALL AGGREGATE BASE SHALL BE MOISTURE CONDITIONED TO, OR SLIGHTLY ABOVE, OPTIMUM MOISTURE CONTENT AND COMPACTED TO 95% RELATIVE COMPACTION.
- 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.
- 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.
- ALL AREAS DISTURBED BY GRADING, DEMOLITION, OR CONSTRUCTION ACCESS, WHICH ARE NOT SURFACED BY THIS SET OF PLANS, OR LANDSCAPE PLANS, SHALL BE SEED WITH EROSION CONTROL TYPE NON-WATERED SEED MIX. REFER TO EROSION CONTROL SPECIFICATIONS FOR ACCEPTABLE SEED MIXES.
- REFER TO GRADING PLANS FOR CURBS, CURB GUTTERS, VALLEY GUTTERS, AND OTHER CONCRETE STRUCTURES AND PAVING FEATURES NOT SPECIFICALLY NOTED ON THIS PLAN.
- ALL NEW ASPHALT PAVING SHALL RECEIVE SEALCOAT. 2 COATS, MIN. REFER TO PROJECT SPECIFICATIONS. CONTRACTOR SHALL ALLOW FOR 30 DAYS MIN. OF ASPHALT PAVING CURING PRIOR TO SEALCOAT PLACEMENT. IF CONTRACTOR'S 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.

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

**REBAR OPTIONS**

- AT CONTRACTOR'S OPTION:
- #4 @ 24" O.C.E.W. = #3 @ 18" O.C.E.W.
  - #4 @ 18" O.C.E.W. = #3 @ 12" O.C.E.W.

**LIME EXCAVATION**

NOTE: WHERE LIME TREATMENT OF PAVEMENT ENCROACHES INTO PROPOSED PLANTING AREAS, FOLLOWING PLACEMENT OF PAVING, ENCRoACHED 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:

- TREAT SOIL WITH LIME AT SEPARATE LOCATION AND THEN PLACE, COMPACT AND CURE WHERE NEEDED. SEE SECTION 31.32.00.
- 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 BX1000 OR TX140 GEOGRID. THIS AB LAYER DOES NOT COUNT TOWARD PAVEMENT SECTION AB LAYER THICKNESS.

**GRAPHIC SCALE**

THIS DRAWING MAY HAVE BEEN ENLARGED OR REDUCED.

- 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 3/4" TYPE A AC REINFORCED, 2.5" THICK 3/4" TYPE A AC REINFORCED, OVER 6" CLASS II AB, ON 12" DEEP LIME TREATED SUBGRADE. ENGINEERED FILL AND SUBGRADE SHALL BE PLACED AND COMPACTED PER SPECIFICATION SECTION 31.22.00 AND 31.23.00. ASPHALT PER SPECIFICATION SECTION 32.12.00 AND 32.12.16.26. SEE STRIPING AND SURFACING PLAN FOR TENNIS COURT SURFACING AND SECTION 32.18.23.
- 10 TYPE 10 SURFACING - SYNTHETIC TURF**  
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 SURFACING - TENNIS COURT DEMO AREA**  
FOLLOWING PAVING AND CLASS II AB REMOVAL PER THE DEMOLITION AND ENGINEERED FILL PLAN AND SPECIFICATIONS, GRADE AND LEVEL AND COMPACT TOP 6" OF SUBGRADE TO 95% RELATIVE COMPACTION AND PROVIDE HYDROSEED OR OTHER EROSION CONTROL MEASURES.

**1 PAVING PLAN**

- PAVING LEGEND - LIME TREATED SUBGRADE (RECOMMENDED)**  
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 7.0" 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 3.5" 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.
  - 3 TYPE 3 PAVING - PARKING STALLS**  
PLACE 3.0" AC OVER 4.0" 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 - HARD COURTS**  
PLACE 3.0" AC OVER 4.0" 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)**  
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.
- 6 TYPE 6 PAVING - VEHICULAR RATED**  
PLACE 7" PCC, 3500 PSI MIN., OVER 6" 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 18" O.C.E.W. CONCRETE SHALL BE PER SECTION 32.16.00. REFER ALSO TO DETAILS PROVIDED.

- 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 16.0" 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 3.5" 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 9.0" 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 - HARD COURTS**  
PLACE 3.0" AC OVER 10.0" 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)**  
PLACE 5" PCC OVER 5" 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.
- 6 TYPE 6 PAVING - VEHICULAR RATED**  
PLACE 7" PCC, 3500 PSI MIN., OVER 8" CLASS II AB OVER NATIVE SUBGRADE PREPARED IN ACCORDANCE WITH THE SPECIFICATIONS. PROVIDE #4 BARS AT 18" 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.
- 7 TYPE 7 SURFACING - LANDSCAPE AREA**  
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.

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CONSULTANT

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11010023

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PROJECT  
**LUTHER BURBANK HIGH SCHOOL  
ATHLETIC FIELDS RENOVATION**

3500 FLORIN ROAD  
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CLIENT  
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

5735 47TH AVENUE, SACRAMENTO, CA 95824

ISSUED

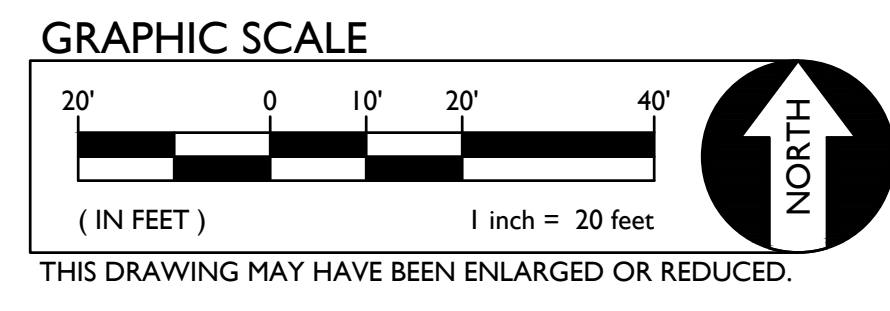
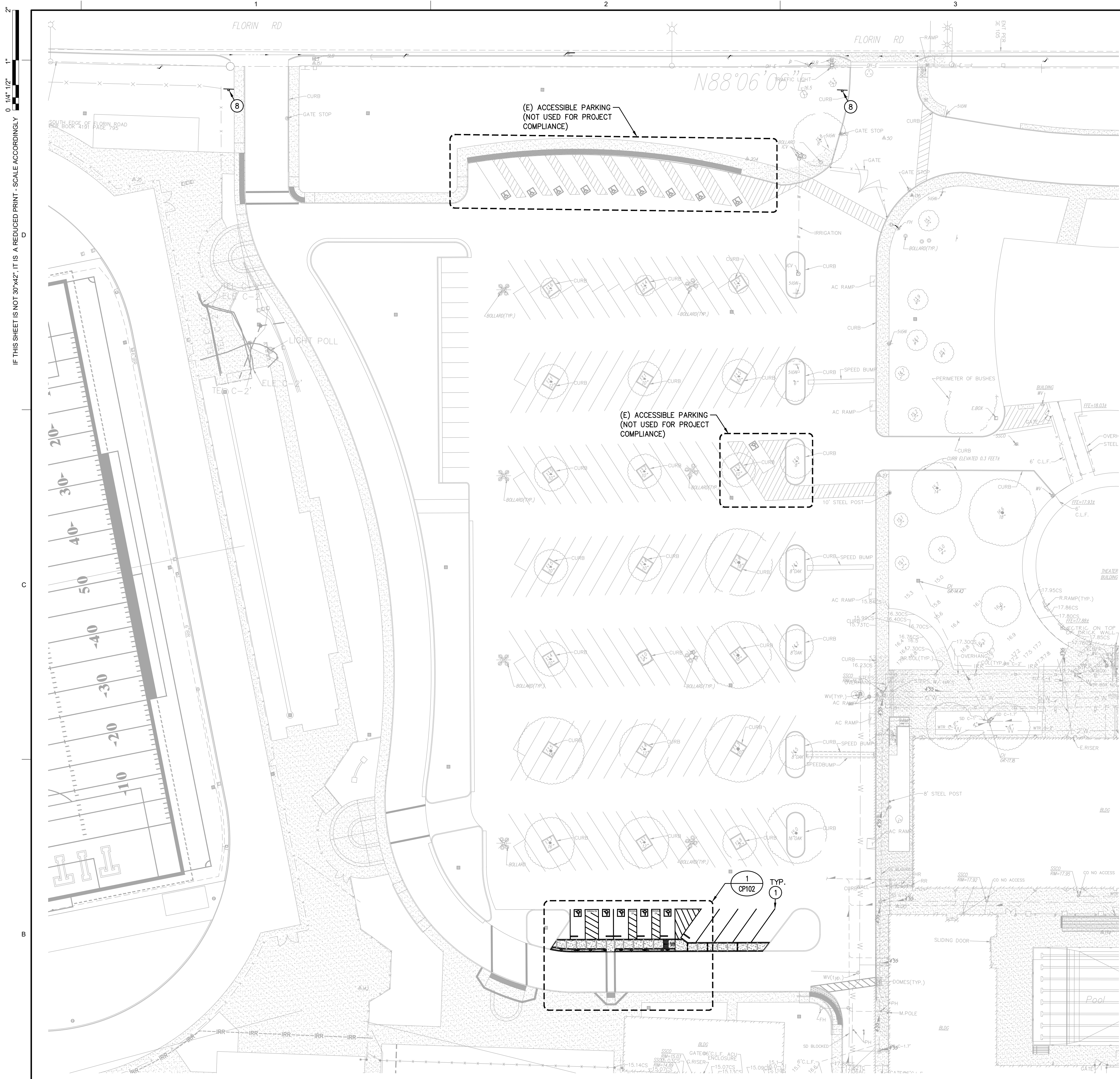
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MANAGEMENT

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DSA APPLICATION NO.:	02-121593
CLIENT PROJECT NO.:	####
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TITLE  
**PAVING PLAN**

SHEET  
**CP101B**



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**

- PAINT 4" WIDE WHITE STRIPING IN LAYOUT AND PER THE DIMENSIONS SHOWN, WHERE SHOWN.
- PAINT 4" WIDE BLUE STRIPING AROUND PERIMETER OF ACCESSIBLE LOADING ZONE AS SHOWN.
- PAINT WHITE CROSS HATCH STRIPING. STRIPES SHALL BE 4" WIDE AND 36" O.C. AND 30' FROM PERPENDICULAR WITH PERIMETER STRIPING.
- PAINT 12" HIGH WHITE LETTERING EXPRESSING "NO PARKING".
- PAINT INTERNATIONAL SYMBOL FOR ACCESSIBILITY PARKING STALL SYMBOL IN ACCORDANCE WITH THE DIMENSIONS AND COLORING SHOWN IN THE PROVIDED DETAIL.
- PLACE 48" LONG CONCRETE WHEEL STOP PER THE DETAIL.
- 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.
- INSTALL ACCESSIBLE PARKING TOW AWAY SIGN PER THE DETAIL PROVIDED.

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**WC** TASSANO

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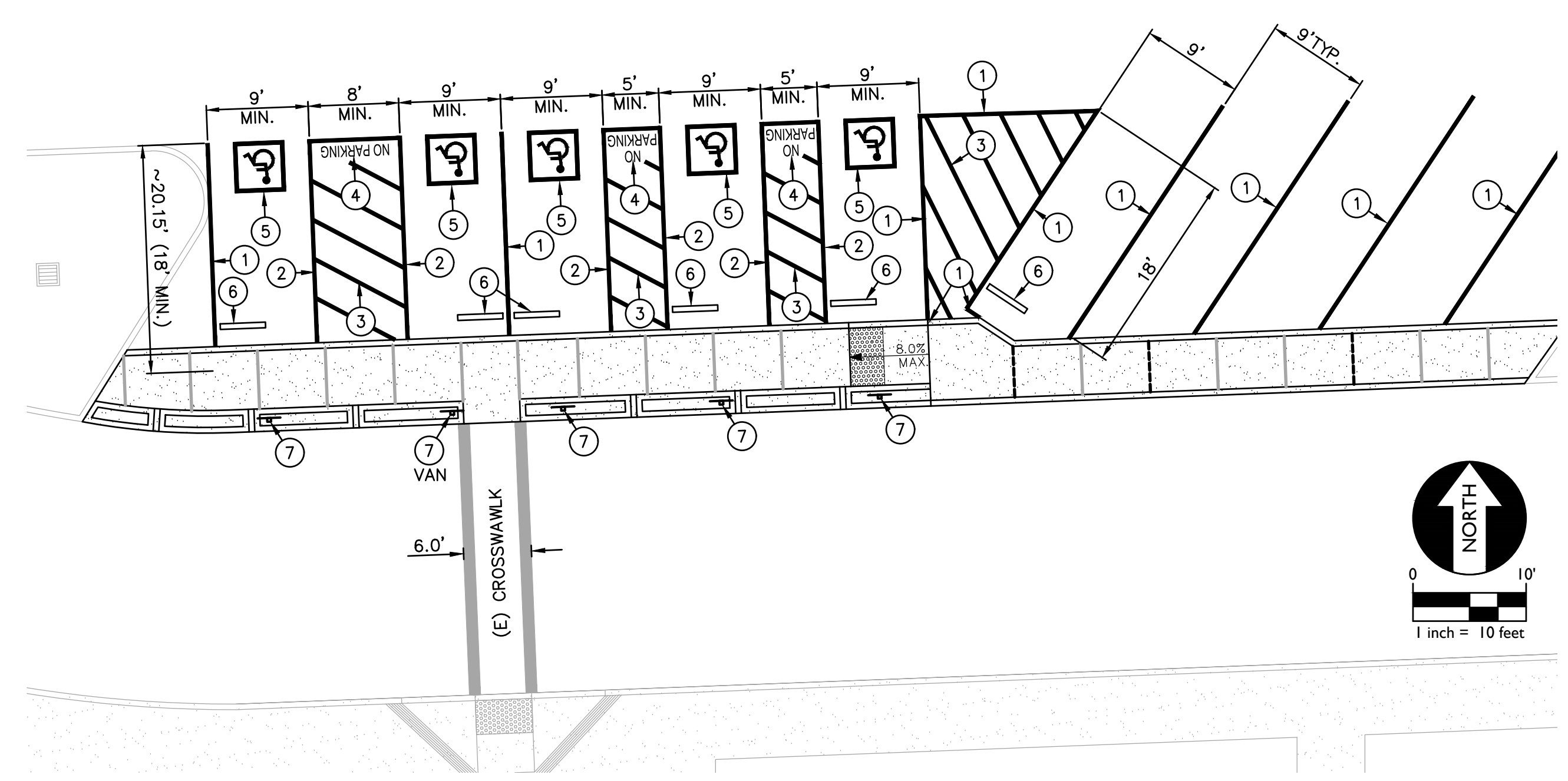
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**A STRIPING AND SIGNAGE PLAN**

SCALE 1" = 30'-0"

**2 NOT USED**



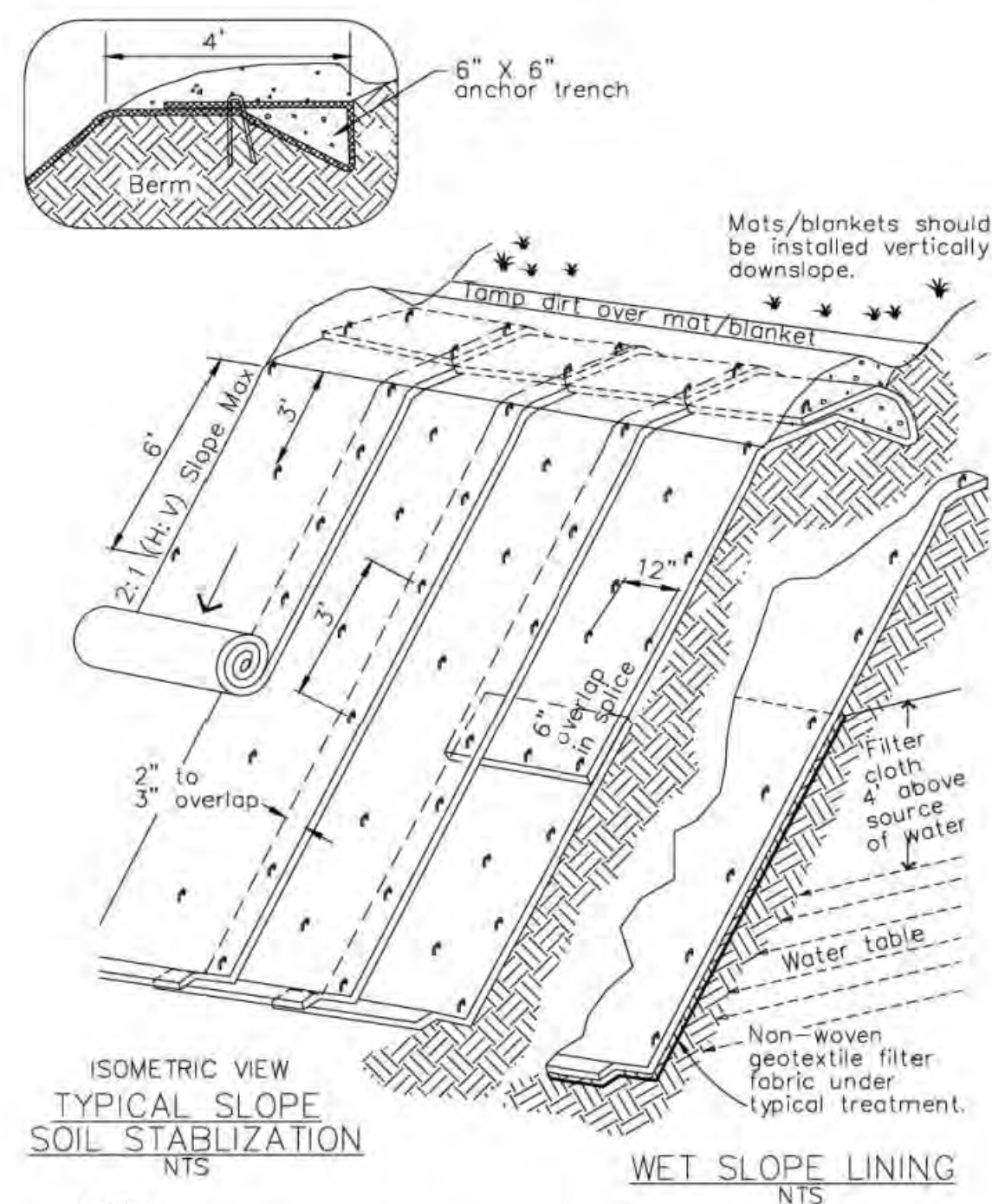
**1 DETAIL STRIPING PLAN**

SCALE 1" = 10'-0"

TITLE  
**STRIPING PLAN**

SHEET  
**CP102**

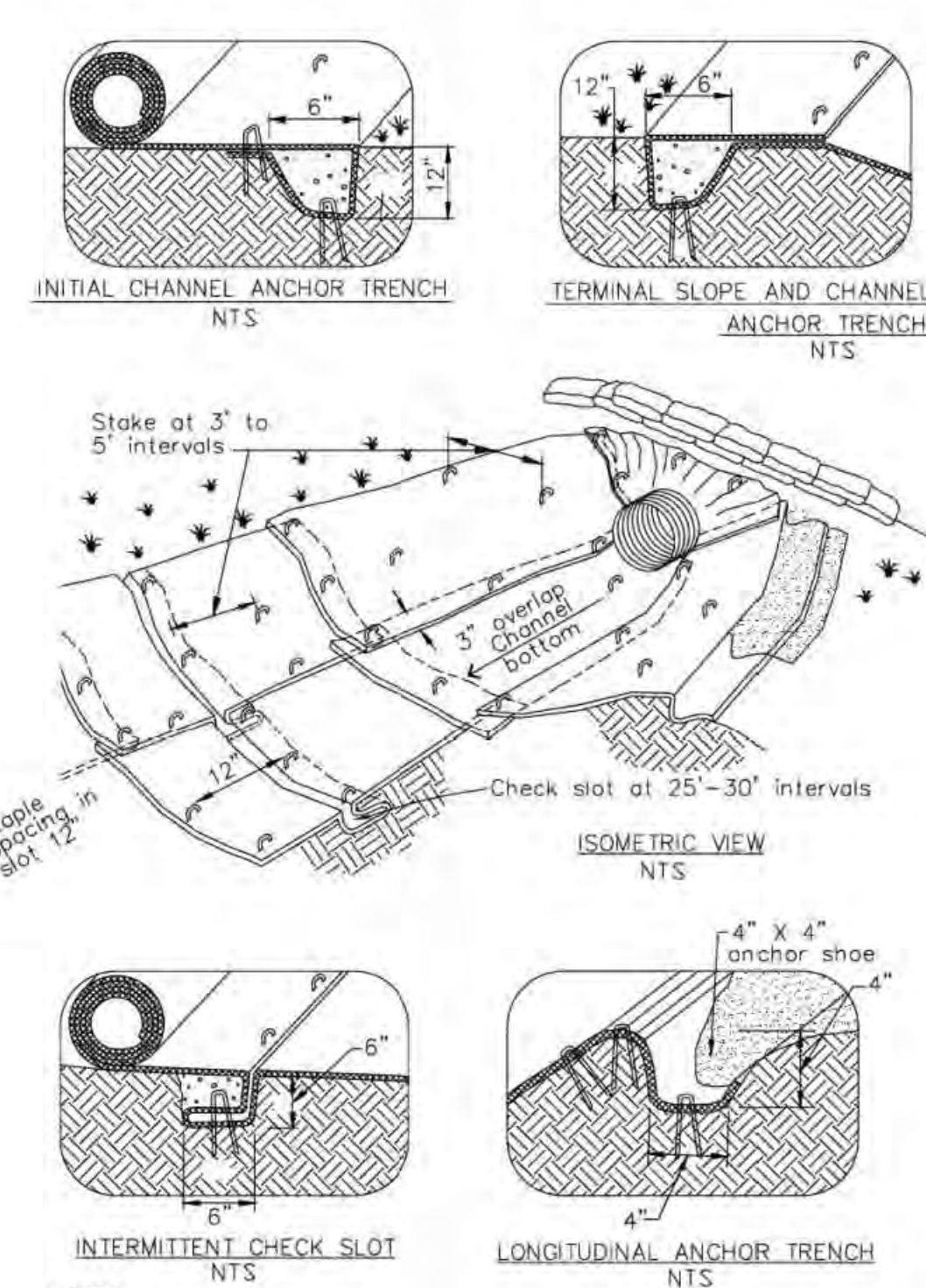
**EC-7 Geotextiles and Mats**



**ISOMETRIC VIEW TYPICAL SLOPE SOIL STABILIZATION**  
**WET SLOPE LINING**  
 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

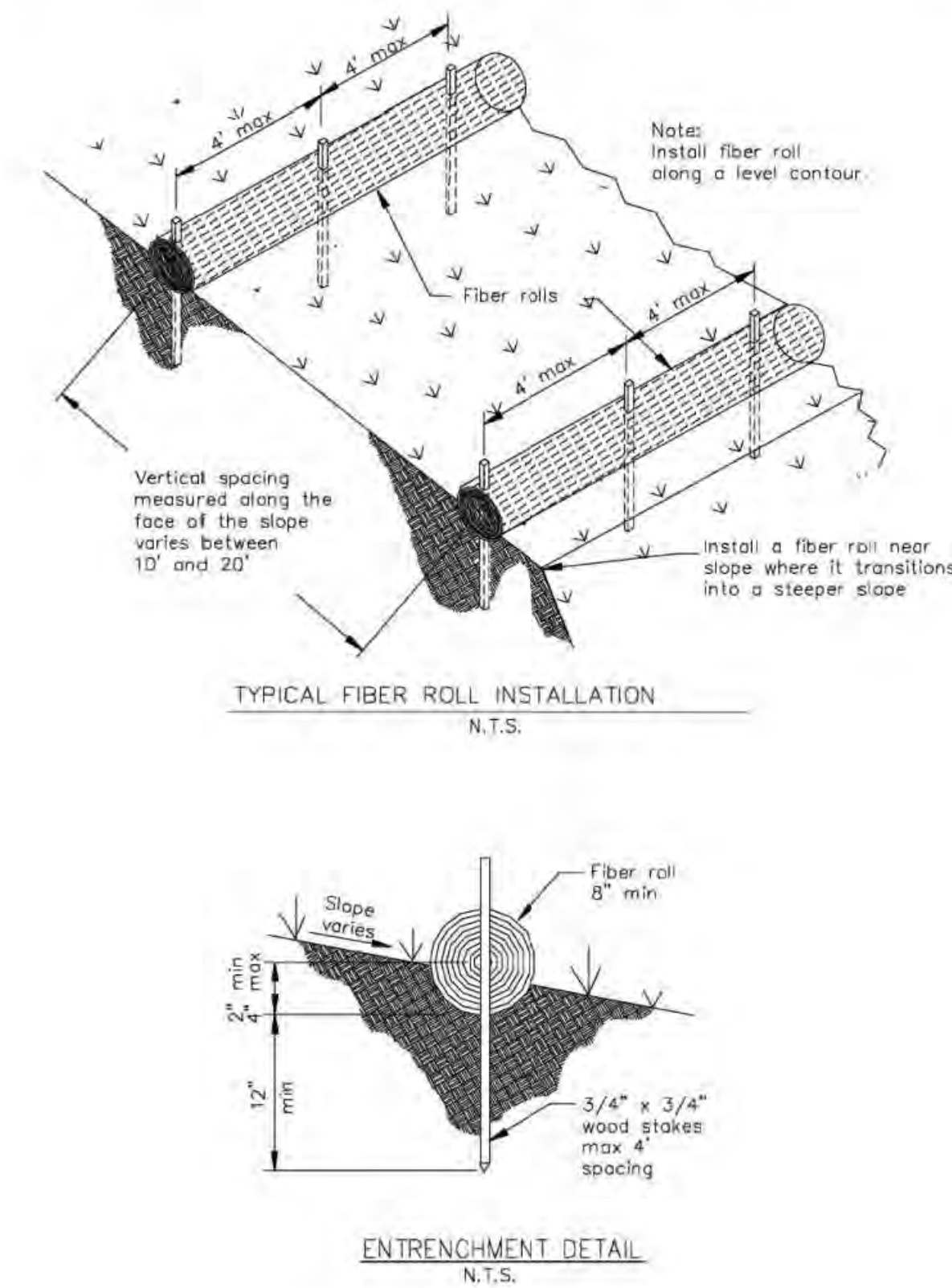
**Geotextiles and Mats EC-7**



**ISOMETRIC VIEW**  
**TYPICAL INSTALLATION DETAIL**  
 NOTES:  
 1. Check slots to be constructed per manufacturer's specifications.  
 2. Staking or stapling layout per manufacturer's specifications.  
 3. Install per manufacturer's recommendations.

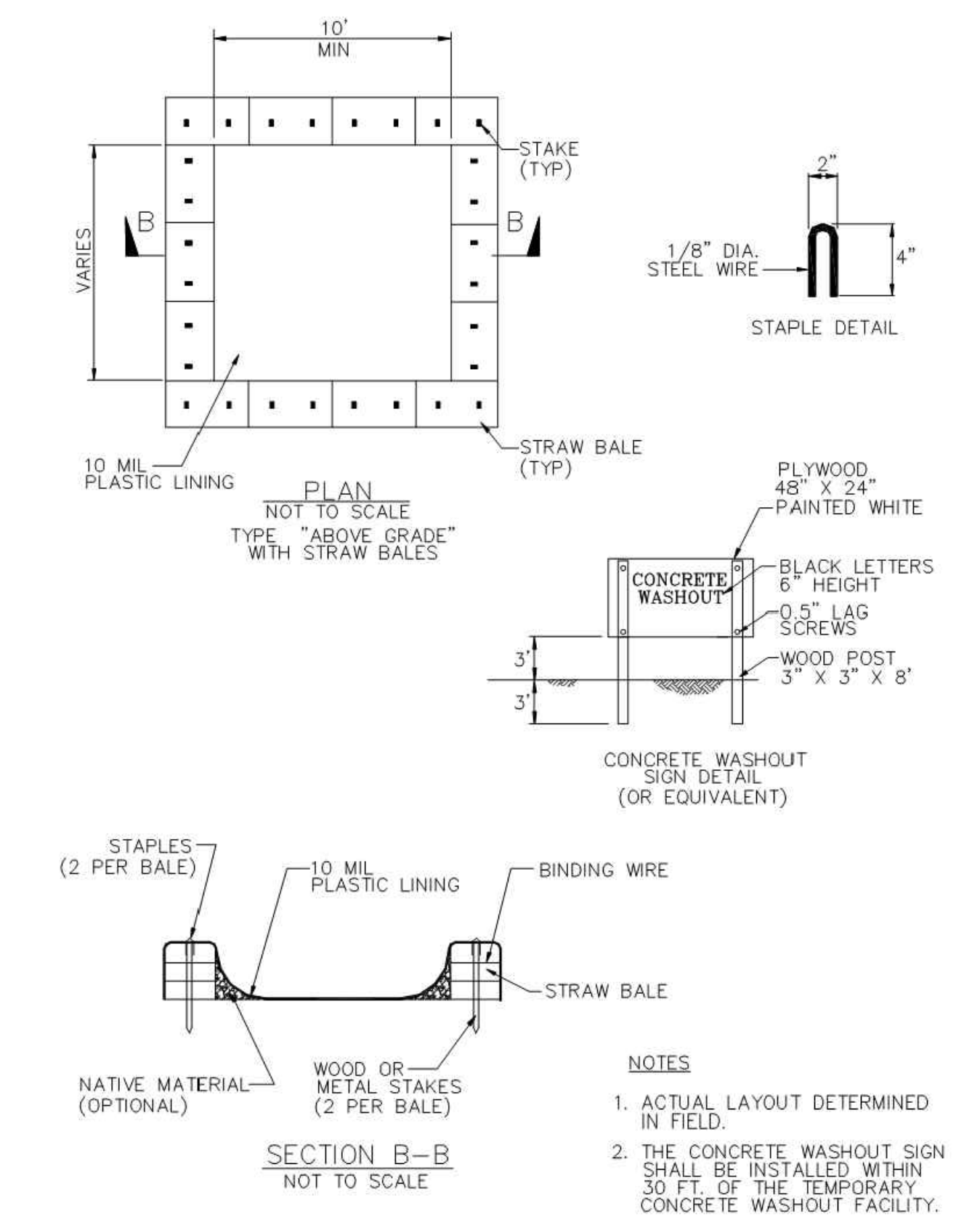
TYPICAL INSTALLATION DETAIL

**SE-5 Fiber Rolls**



**TYPICAL FIBER ROLL INSTALLATION**  
**ENTRENCHMENT DETAIL**  
 NOTES:  
 1. Check slots to be constructed per manufacturer's specifications.  
 2. Staking or stapling layout per manufacturer's specifications.  
 3. Install per manufacturer's recommendations.

**Concrete Waste Management WM-8**



**CONCRETE WASHOUT SIGN DETAIL**  
 NOTES:  
 1. ACTUAL LAYOUT DETERMINED IN FIELD.  
 2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 50 FEET OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

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 CONSULTANT  
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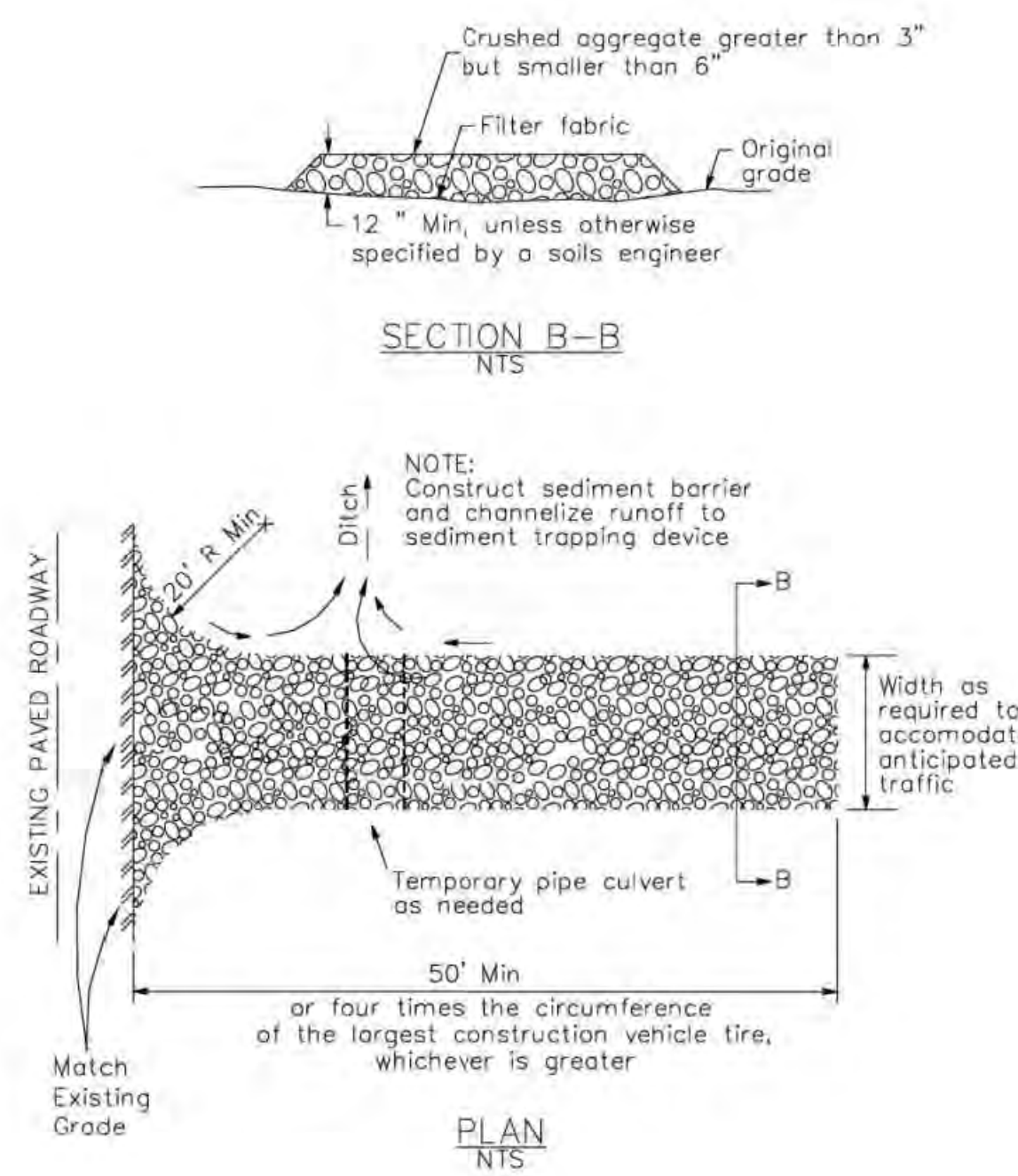
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**TITLE**  
 EROSION CONTROL NOTES  
 & DETAILS

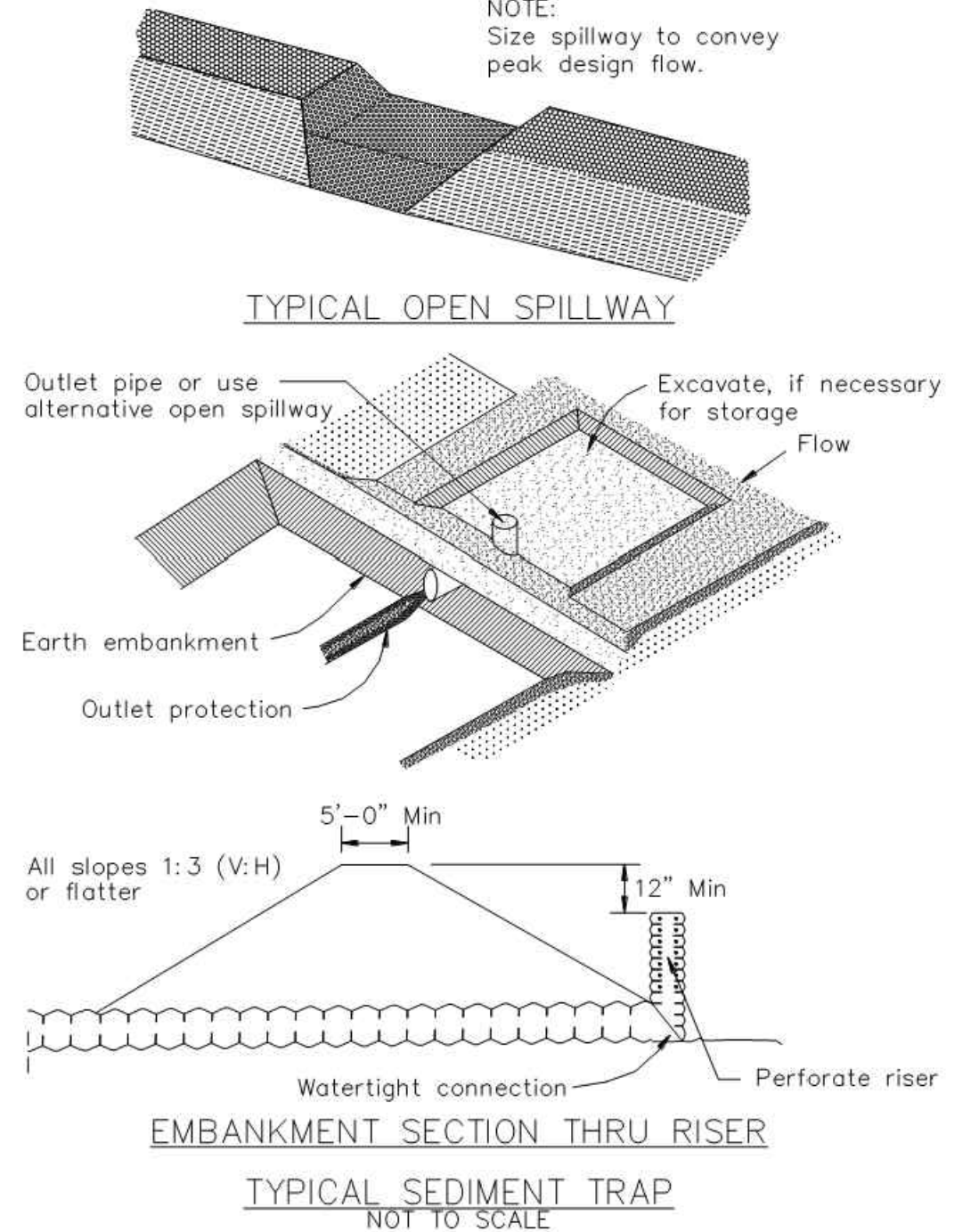
SHEET  
**CK001**

**Stabilized Construction Entrance/Exit TC-1**



**SECTION B-B**  
**PLAN**  
 NOTES:  
 Construct sediment barrier and channelize runoff to sediment trapping device.  
 Width as required to accommodate anticipated traffic.  
 50' Min. or four times the circumference of the largest construction vehicle tire, whichever is greater.

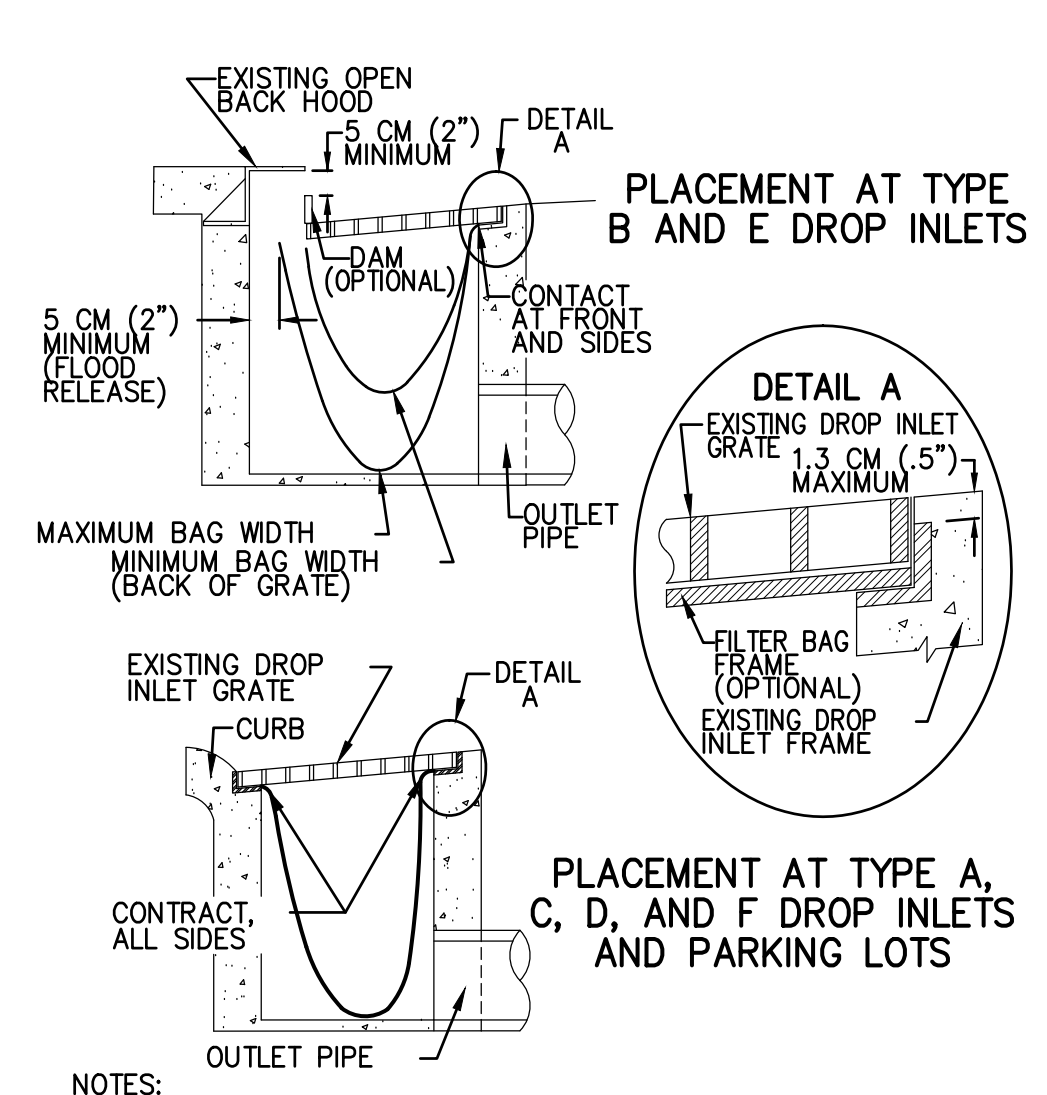
**Sediment Trap SE-3**



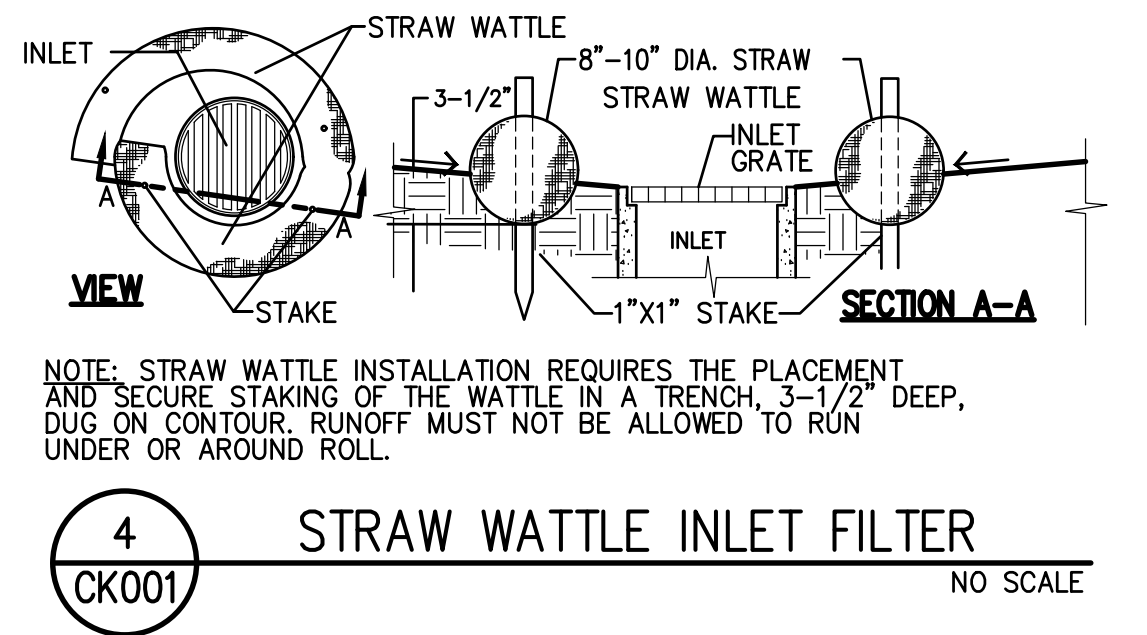
**TYPICAL OPEN SPILLWAY**  
**EMBANKMENT SECTION THRU RISER**  
**TYPICAL SEDIMENT TRAP**  
 NOTES:  
 Size spillway to convey peak design flow.

**EROSION AND SEDIMENT CONTROL NOTES**

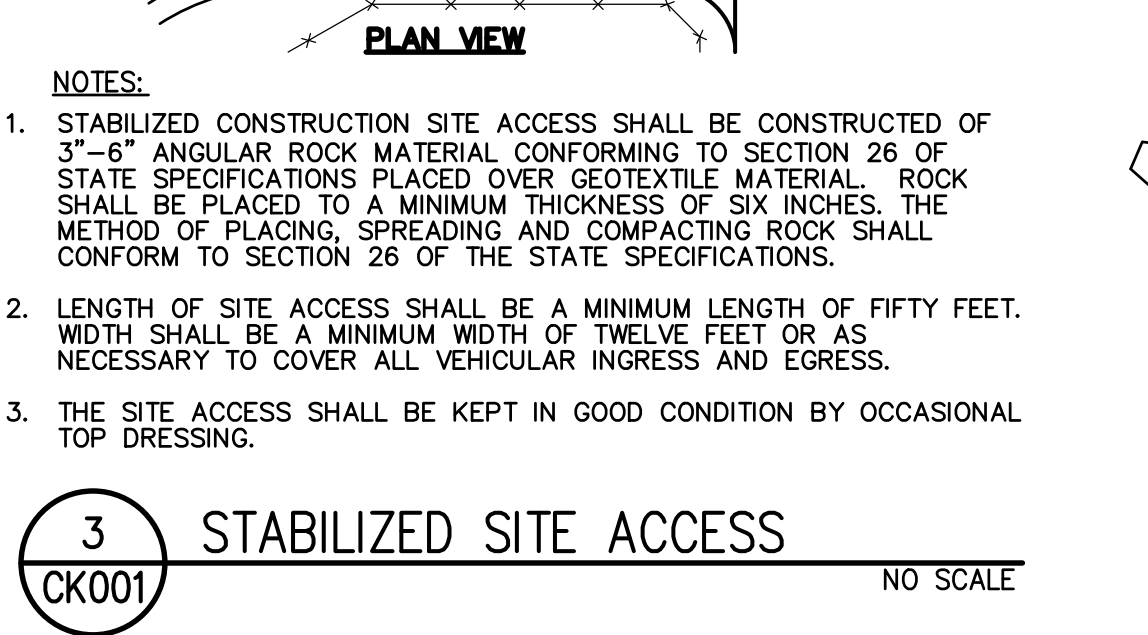
1. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE EFFECTIVE FOR THE DURATION OF THE CONSTRUCTION ACTIVITY.
2. NO STORM RUNOFF WATER SHALL BE ALLOWED TO DRAIN DIRECTLY INTO THE EXISTING UNDERGROUND STORM SYSTEM BEFORE THE ONSITE STORM DRAIN SYSTEM IS INSTALLED.
3. AS SOON AS IS PRACTICAL AFTER THE NEW 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.



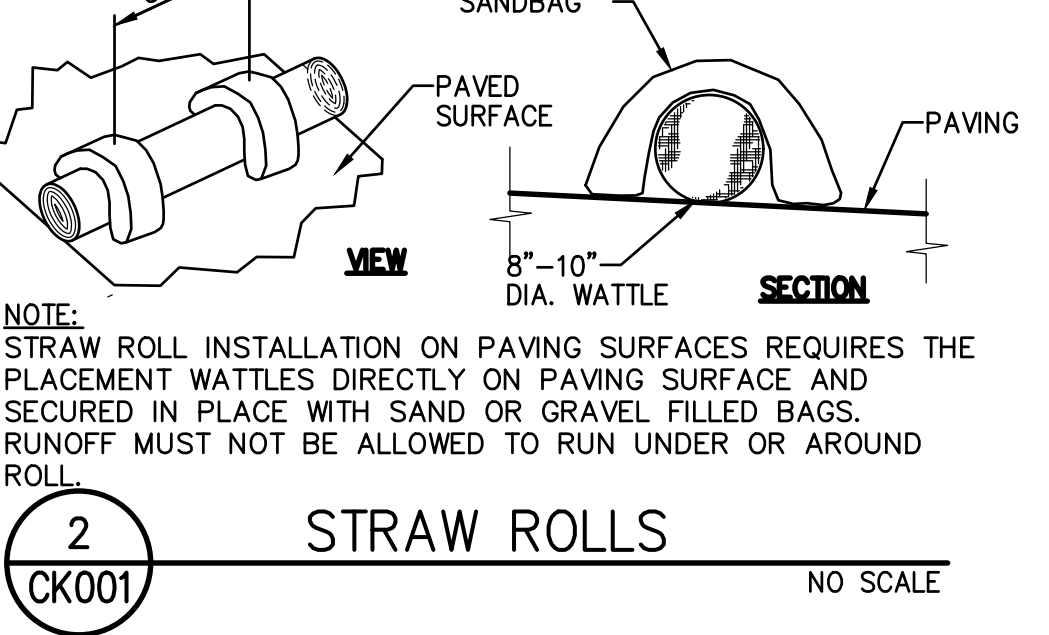
**PLACEMENT AT TYPE B AND E DROP INLETS**  
**PLACEMENT AT TYPE A, C, D, AND F DROP INLETS AND PARKING LOTS**  
 NOTES:  
 1. THE MAXIMUM DRAINAGE AREA PER FILTER SHALL BE NO MORE THAN 0.8 HECTARES(2 ACRES)  
 2. THE FILTER BAG SHALL BE MANUFACTURED FROM UV RESISTANT POLYPROPYLENE, NYLON, POLYESTER, OR ETHYLENE FABRIC WITH A MINIMUM TENSILE STRENGTH OF 50 LBS. PER LINER FEET, AND 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.



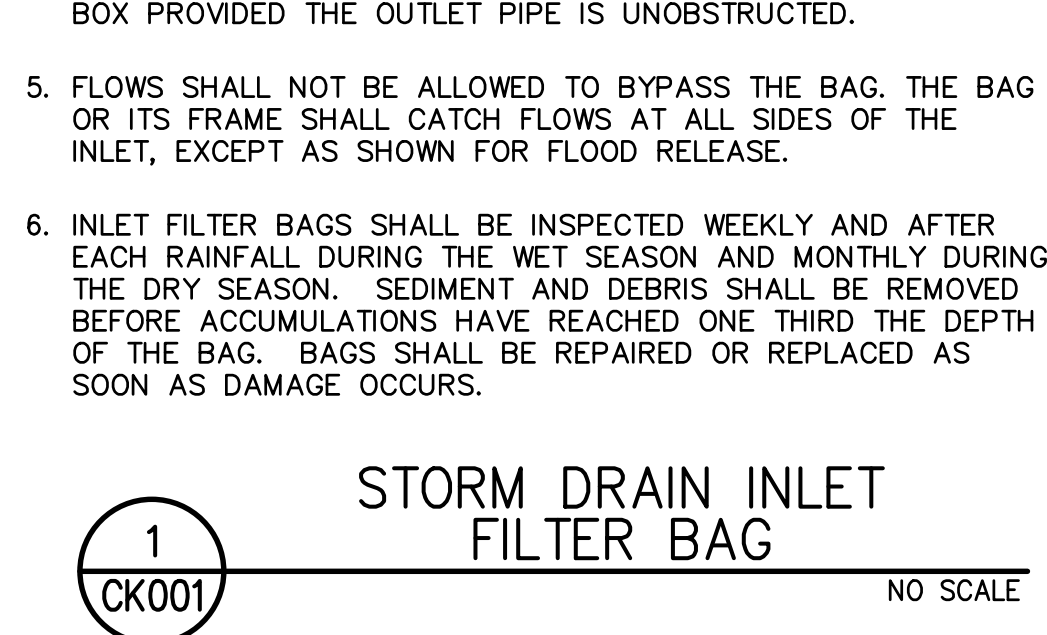
**4 CK001 STRAW WATTLE INLET FILTER**  
 NO SCALE



**3 CK001 STABILIZED SITE ACCESS**  
 NO SCALE



**2 CK001 STRAW ROLLS**  
 NO SCALE



**1 CK001 STORM DRAIN INLET FILTER BAG**  
 NO SCALE

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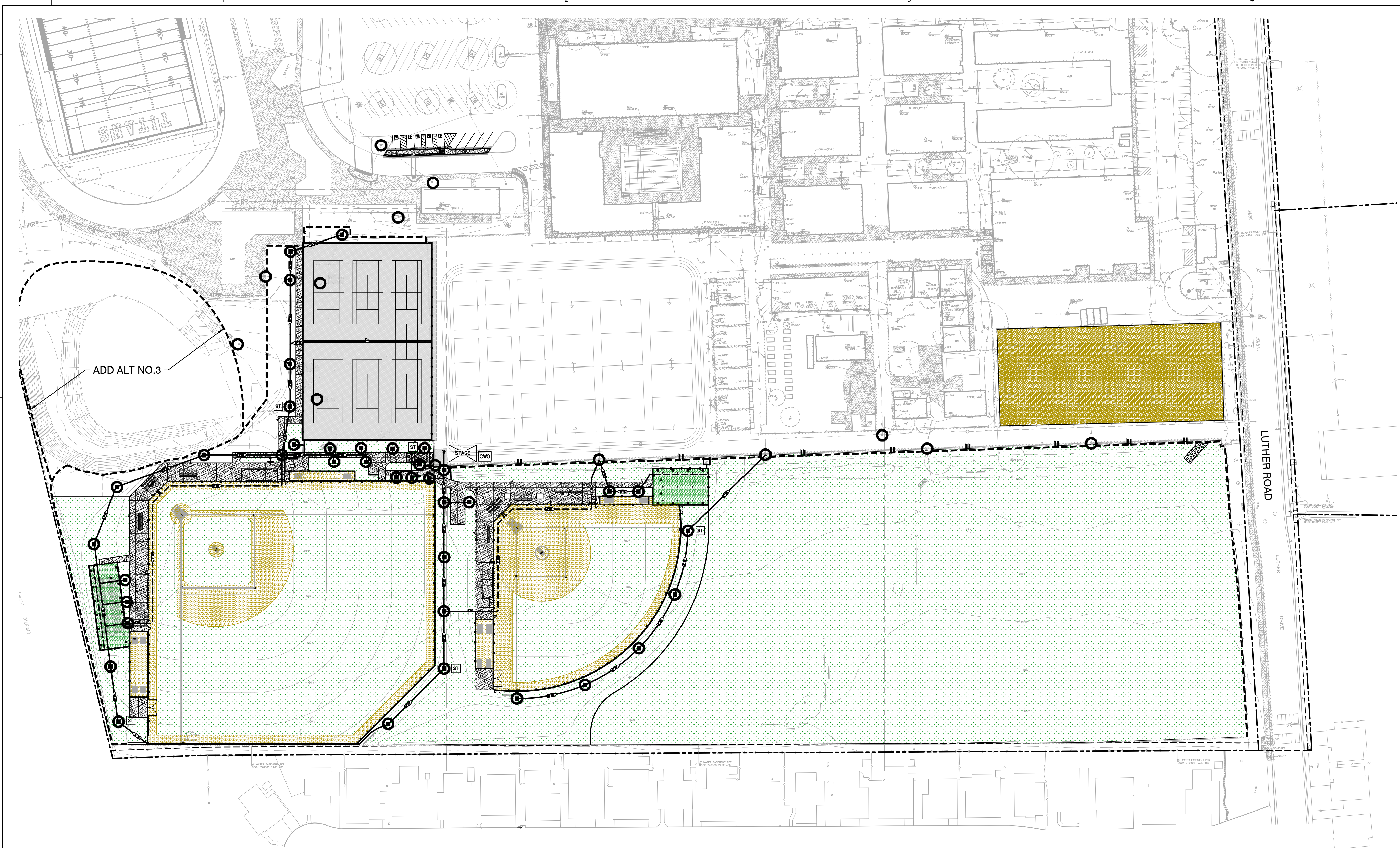
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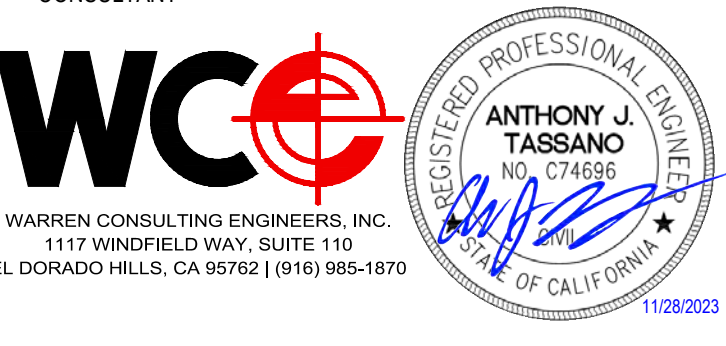


**LEGEND**

- GENERAL EROSION CONTROL NOTES**  
NOTE: EXACT LOCATION WILL BE DETERMINED BY CONTRACTOR
- 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.
  - CONTRACTOR SHALL PROVIDE STRAW WATTLES AT PERIMETER OF SITE AND IN AREAS REQUIRED TO ELIMINATE OR IMPED THE FLOW OF SEDIMENT. IN PAVED AREAS, WATTLES CAN BE PLACED OVER PAVING AND HELD IN PLACE WITH SANDBAGS AT 6' O.C.
  - CONTRACTOR SHALL PROVIDE STABILIZED CONSTRUCTION SITE ACCESS PER DETAIL AT LOCATIONS REQUIRED FOR CONSTRUCTION ACTIVITIES.
  - CONTRACTOR SHALL CONSTRUCT AND UTILIZE A CONCRETE WASH-OUT IN ACCORDANCE WITH WM-8 OF THE CALIFORNIA STORMWATER QUALITY ASSOCIATION BMP HANDBOOK.
  - 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.
  - CONSTRUCT SAND BAG OR STRAW WATTLE DAMS IN GUTTER TO CAPTURE ANY SEDIMENT LADEN RUN-OFF FROM ESCAPING THE SITE TO INLETS.
  - TO CAPTURE RUNOFF AND PROTECT FROM DISCHARGE, SEDIMENT TRAPS PER STADNARD SE-3 ARE RECOMMENDED IN LOW AREAS COLLECTING SIGNIFICANT RAINFALL.
  - BIO-RETENTION BASINS SHALL EITHER BE CONSTRUCTED TOWARD THE END OF CONSTRUCTION AFTER MOST PAVING AND LANDSCAPING IS COMPLETE, OR SHALL BE COVERED WITH PLASTIC SHEETING DURING CONSTRUCTION SO AS NOT TO CONTAMINATE THE BIO-RETENTION SOILS BY THE CONSTRUCTION RUNOFF. WHILE BASIN IS LINED WITH PLASTIC, PUMPING AND FILTERING OF STORM WATER WILL LIKELY BE REQUIRED AND SHALL BE PROVIDED BY THE CONTRACTOR, LEAVING THE OUT THE DRAIN ROCK AND BIO-RETENTION SOIL UNTIL THE END OF THE PROJECT WILL INCREASE BASIN CAPACITY DURING CONSTRUCTION AND MAY REDUCE OR ELIMINATE THE NEED FOR FILTERING SYSTEMS BY ALLOWING TIME FOR SETTLEMENT AND MANUAL REMOVAL OF SEDIMENT.



2025 Nineteenth Street  
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www.lionakis.com

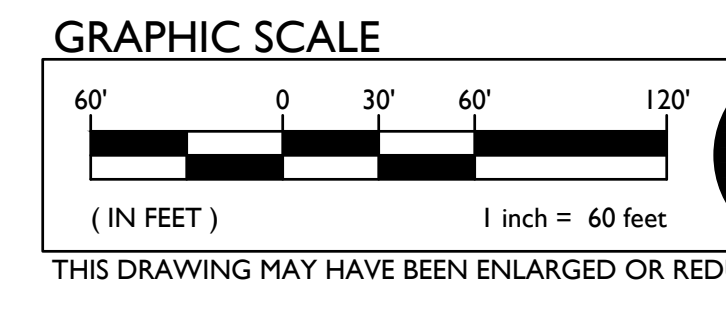


**WARREN CONSULTING ENGINEERS, INC.**  
117 WINDFIELD WAY, SUITE 110  
EL CERRILLO HILLS, CA 95702 | (916) 988-1870

**PROJECT**  
LUTHER BURBANK HIGH SCHOOL  
ATHLETIC FIELDS RENOVATION

3500 FLORIN ROAD  
SACRAMENTO, CA 95823

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



**PROJECT INFORMATION**

PROJECT NAME: LUTHER BURBANK HIGH SCHOOL ATHLETIC FIELD REPLACEMENT

SWPPP REQUIRED: YES

RISK LEVEL: 2

PARCEL AREA	-- ACRES
ON-SITE DISTURBED AREA	-- ACRES
OFF-SITE DISTURBED AREA	-- ACRES
TOTAL DISTURBED AREA	-- 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**

- ANY CHANGES MADE TO THIS PLAN IN THE FIELD MUST BE SHOWN ON THIS MAP. UPDATE MAP TO REFLECT CHANGES.
- MAINTENANCE/REPAIRS OF BMP FAILURE SHALL BEGIN WITHIN 72 HOURS OF IDENTIFICATION AND CHANGES SHALL BE COMPLETED PRIOR TO THE NEXT RAIN EVENT.
- 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**

**1 EROSION CONTROL**

SCALE 1" = 60'-0"

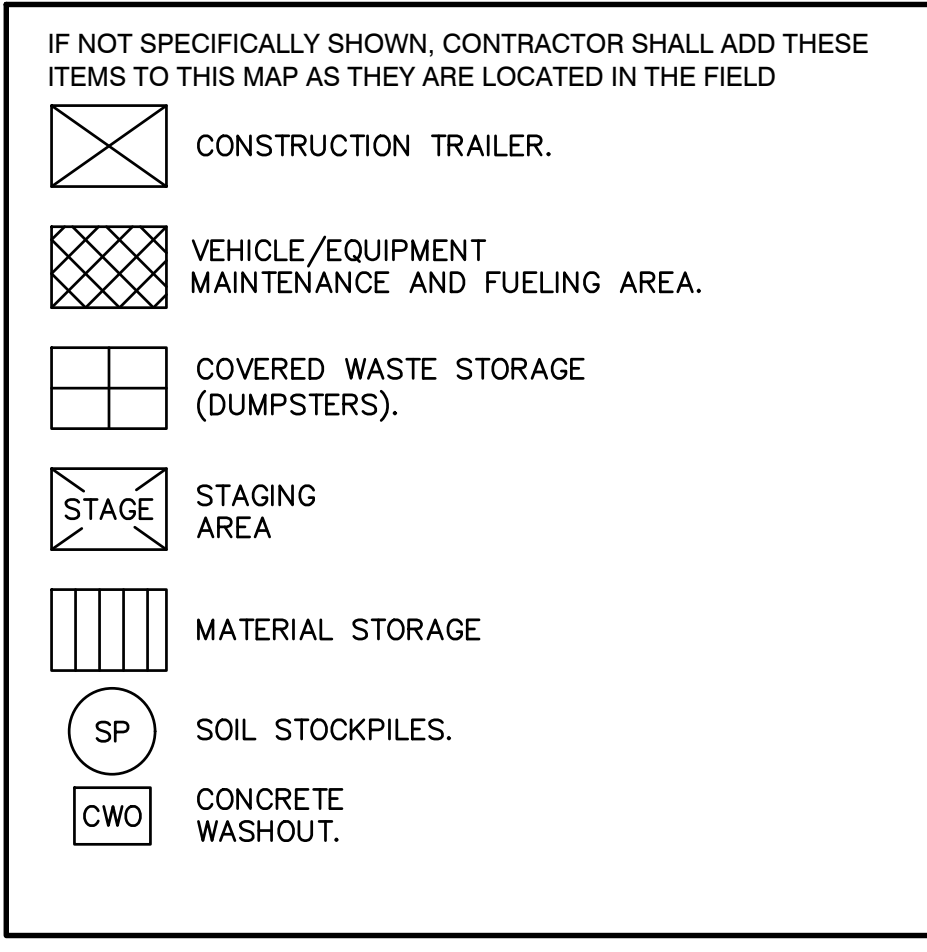
**SEDIMENT TRAP NOTE**

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:

- 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.
- THE TRAP STORAGE VOLUME SHALL BE DESIGNED FOR 35 CUBIC YARDS PER ACRE OF CONTRIBUTING DRAINAGE AREA.
- SIDE SLOPES SHALL BE 3:1 (H:V) OR FLATTER AND THE MAXIMUM DEPTH SHALL BE 3.5 FEET.
- THE LENGTH OF A SEDIMENT TRAP SHALL BE 2 TIMES (MINIMUM) ITS WIDTH.

**MAINTENANCE:**

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



**MONITORING SCHEDULE**

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

- HYDROSEED (ACCEPTABLE ONLY IF SUFFICIENT TIME IS PRESENT TO ENSURE VEGETATION ESTABLISHMENT PRIOR TO RAIN EVENTS.)
- HYDROSEED WITH EROSION CONTROL BLANKETS OR MATS.
- STRAW MULCH WITH SOIL BINDERS.
- 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 (OSD): \_\_\_\_\_ PHONE: \_\_\_\_\_

S.W.P.P.P. PREPARED BY (QSD): \_\_\_\_\_ PHONE: \_\_\_\_\_

S.W.P.P.P. ENFORCED BY (OSP): \_\_\_\_\_ PHONE: \_\_\_\_\_

RESPONSIBLE PARTY: \_\_\_\_\_

CONTACT NAME: \_\_\_\_\_

CONTACT PHONE: \_\_\_\_\_

**EARTHWORK ESTIMATES**

NET CUT QUANTITY: \_\_\_\_\_ CY

NET FILL QUANTITY: \_\_\_\_\_ CY

NET CUT/FILL: \_\_\_\_\_ CY

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 CALCULATE 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 (MATS)	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	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 FENCING	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	
DISTURBED AREAS (TRAFFIC)		X	X	X	X	X		X	X	
MATERIAL STOCKPILE AND STABILIZATION	X	X	X	X	X	X		X	X	
DEMOLITION			X	X				X	X	
CLEARING AND EXCAVATING	X	X	X	X	X	X		X	X	
TRUCK TRAFFIC ON UNPAVED ROADS			X	X	X			X	X	
MUD AND DIRT CARRY-OUT	X	X	X	X	X	X		X	X	

**TITLE**  
EROSION CONTROL PLAN

**SHEET**  
CK101

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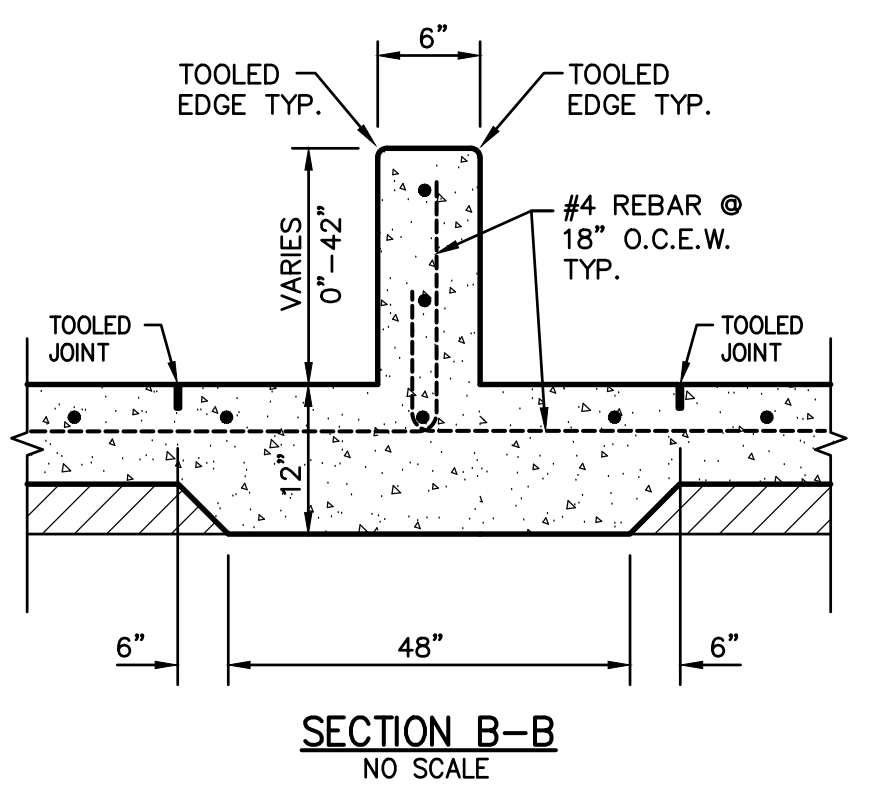
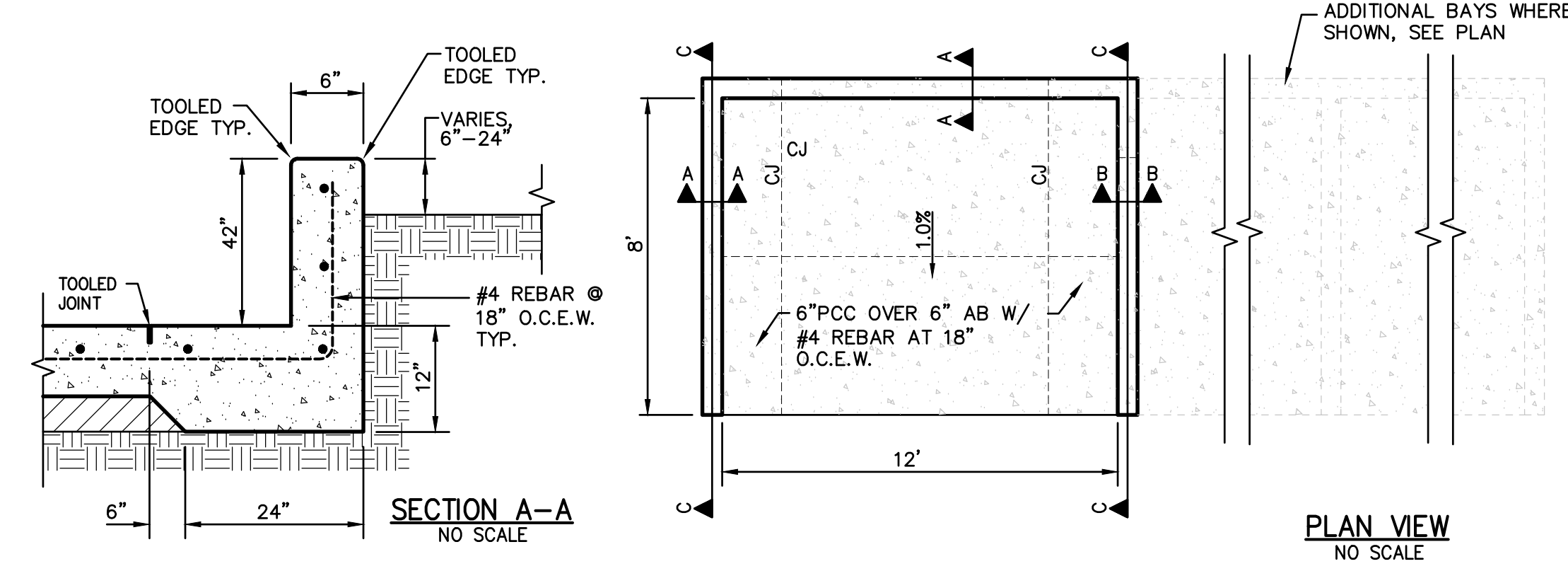
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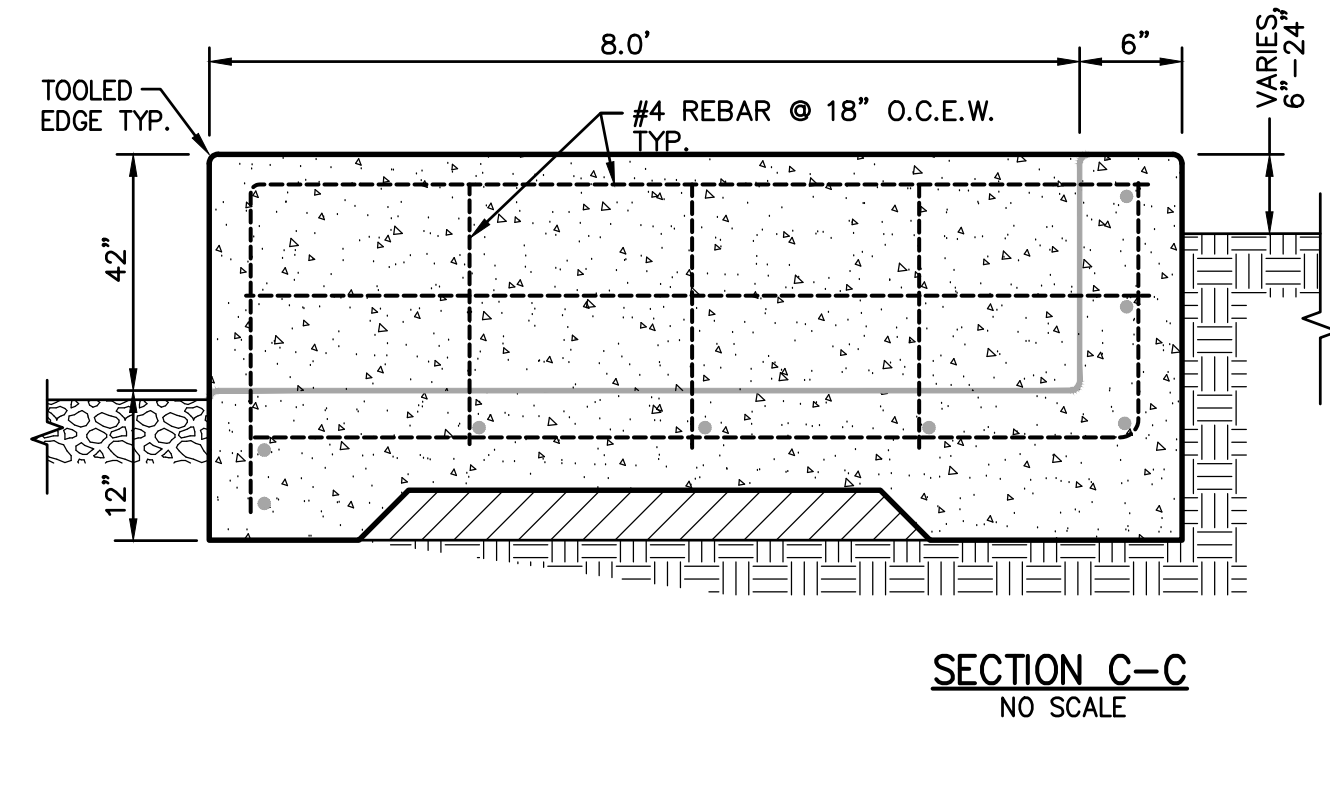
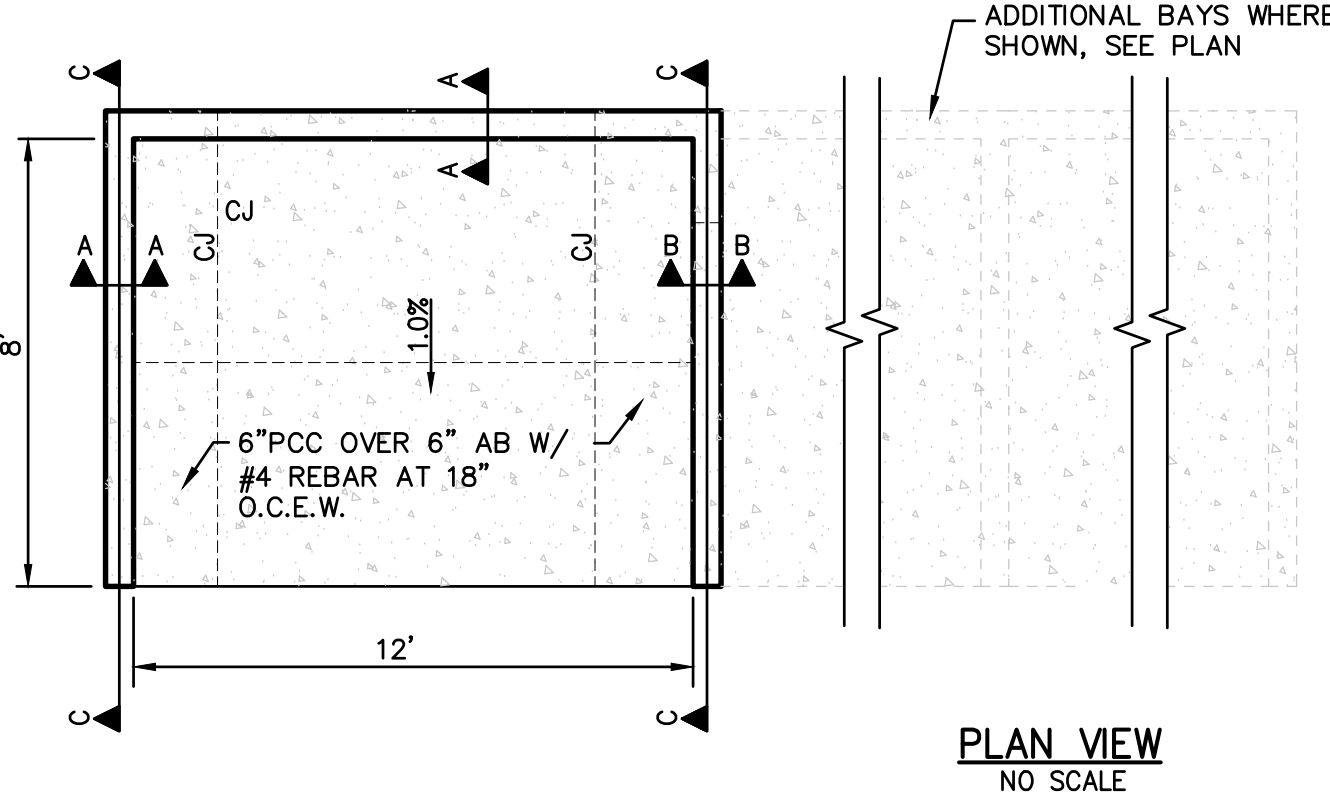
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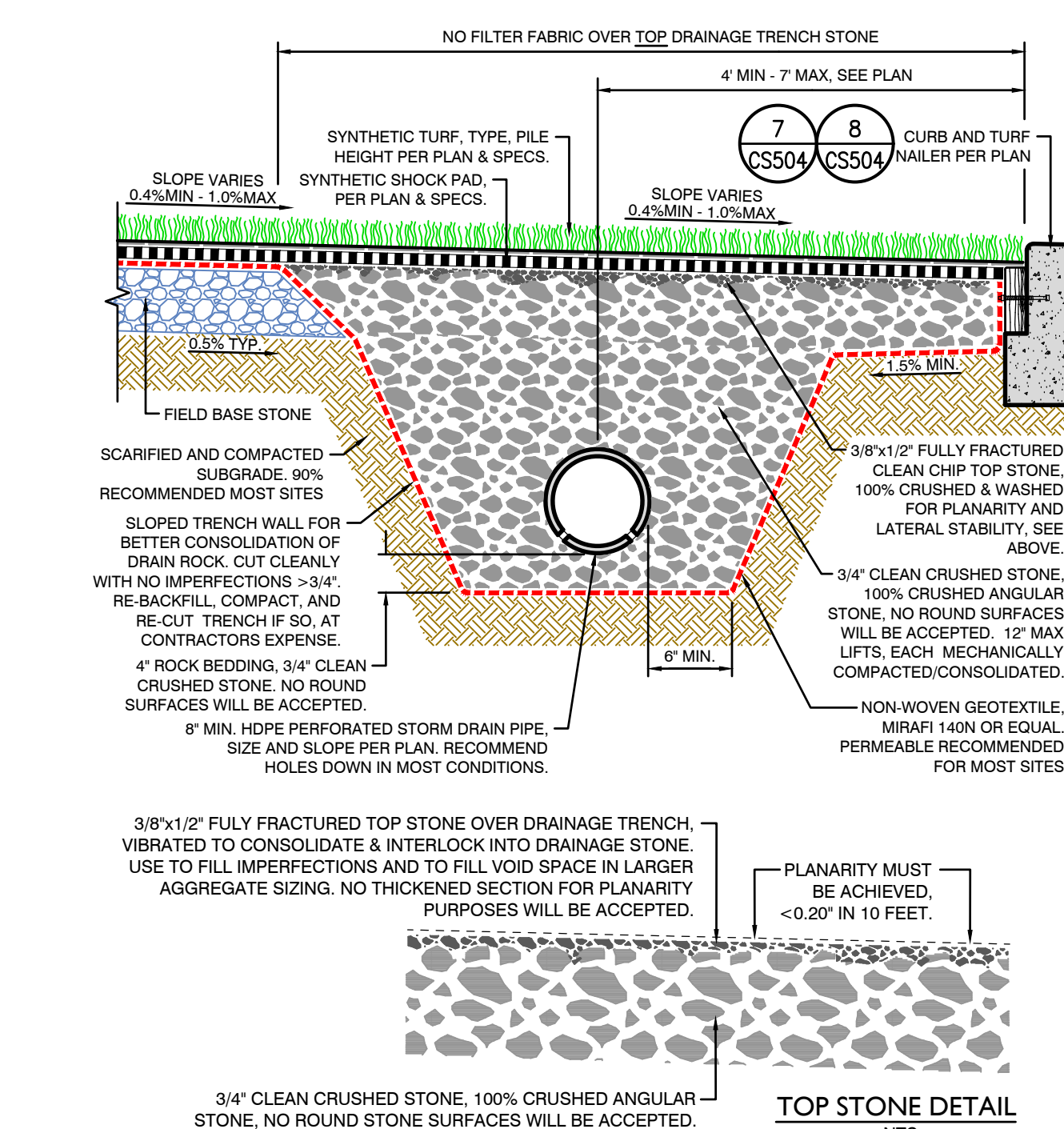
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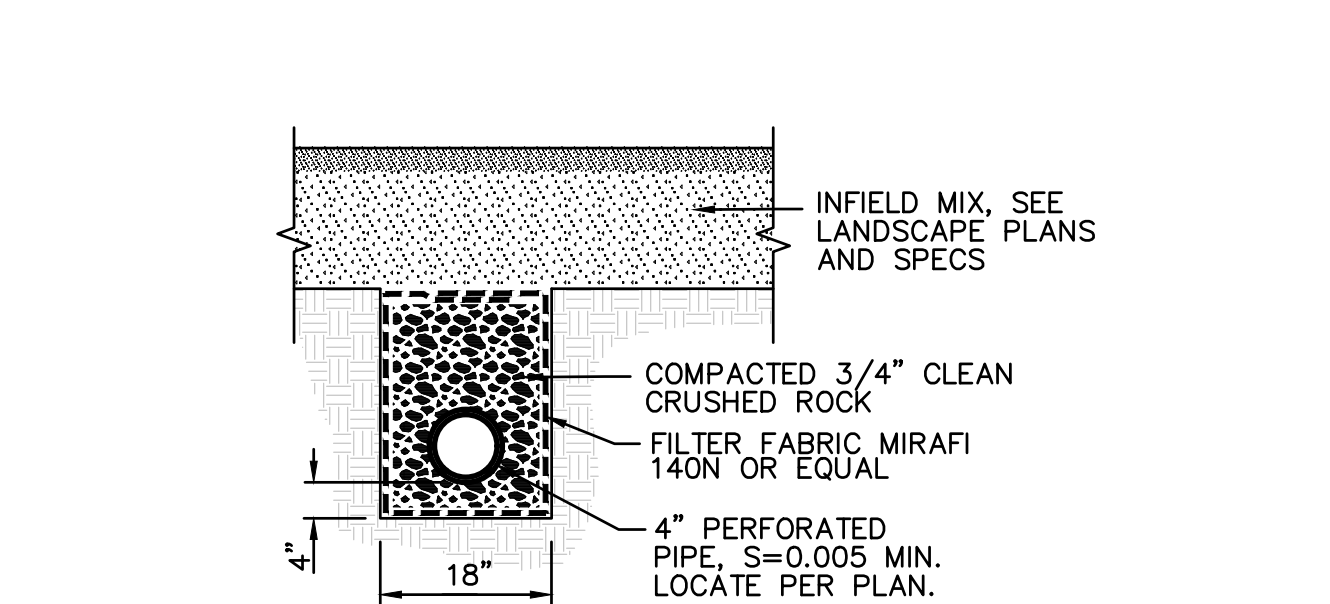
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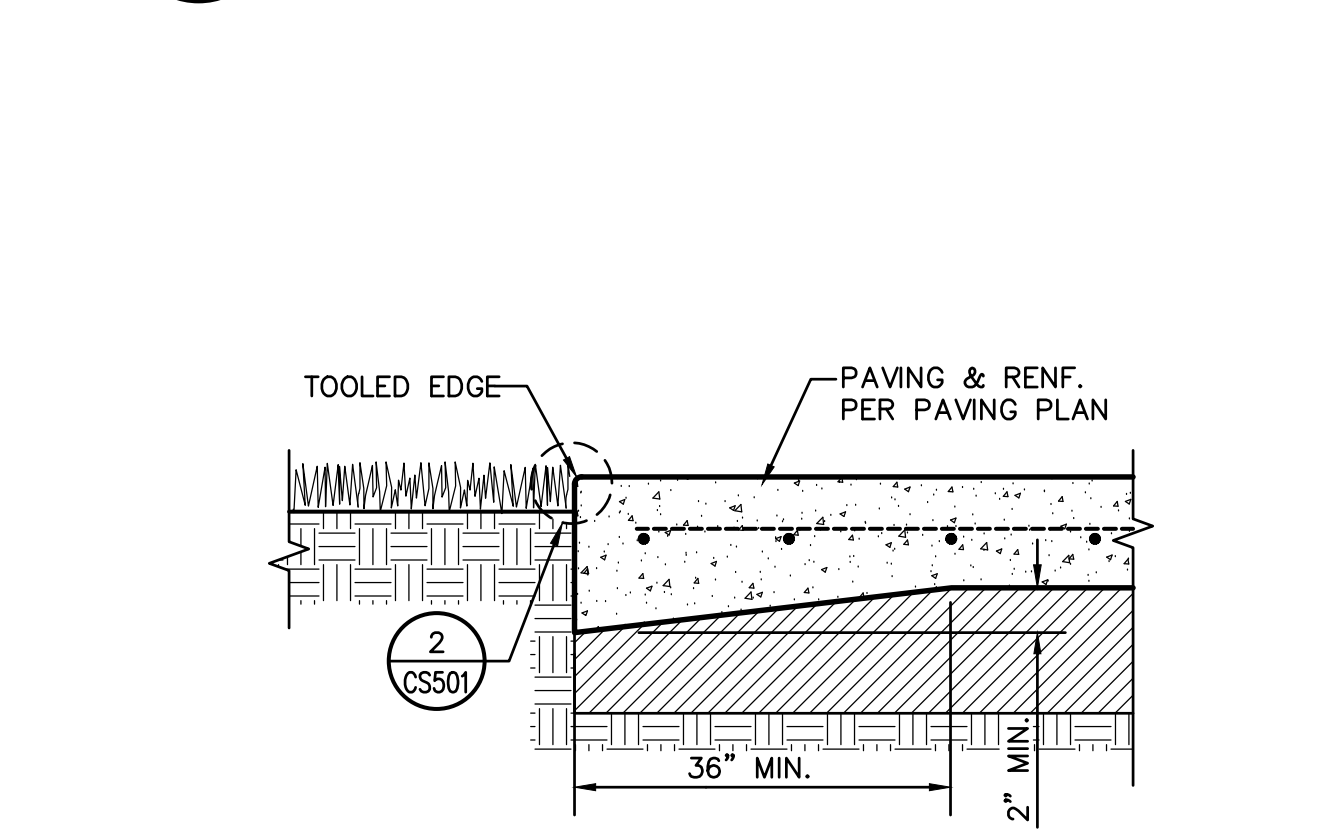
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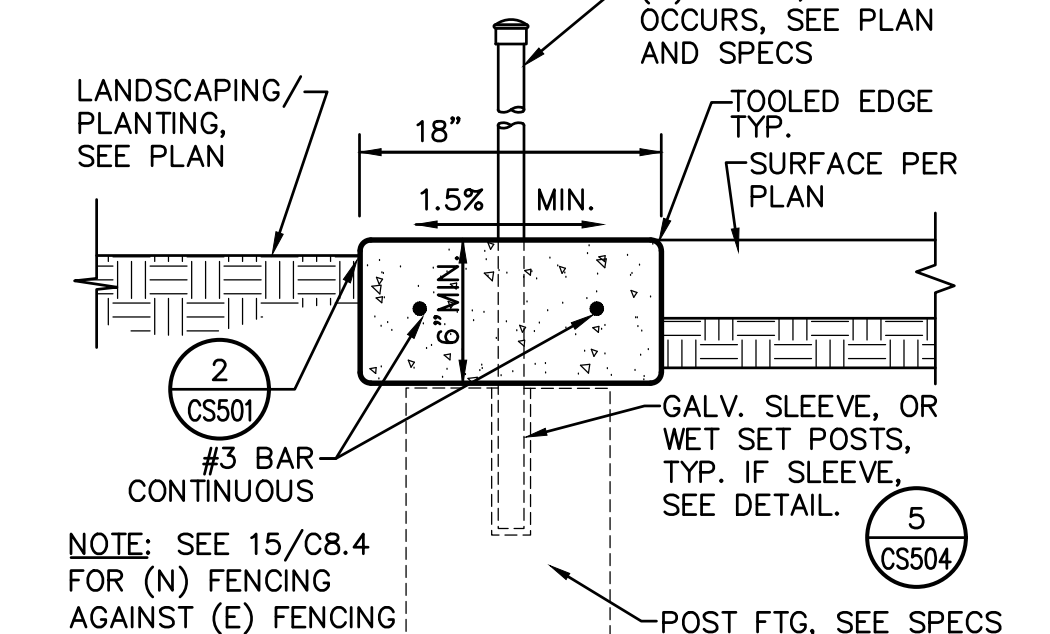
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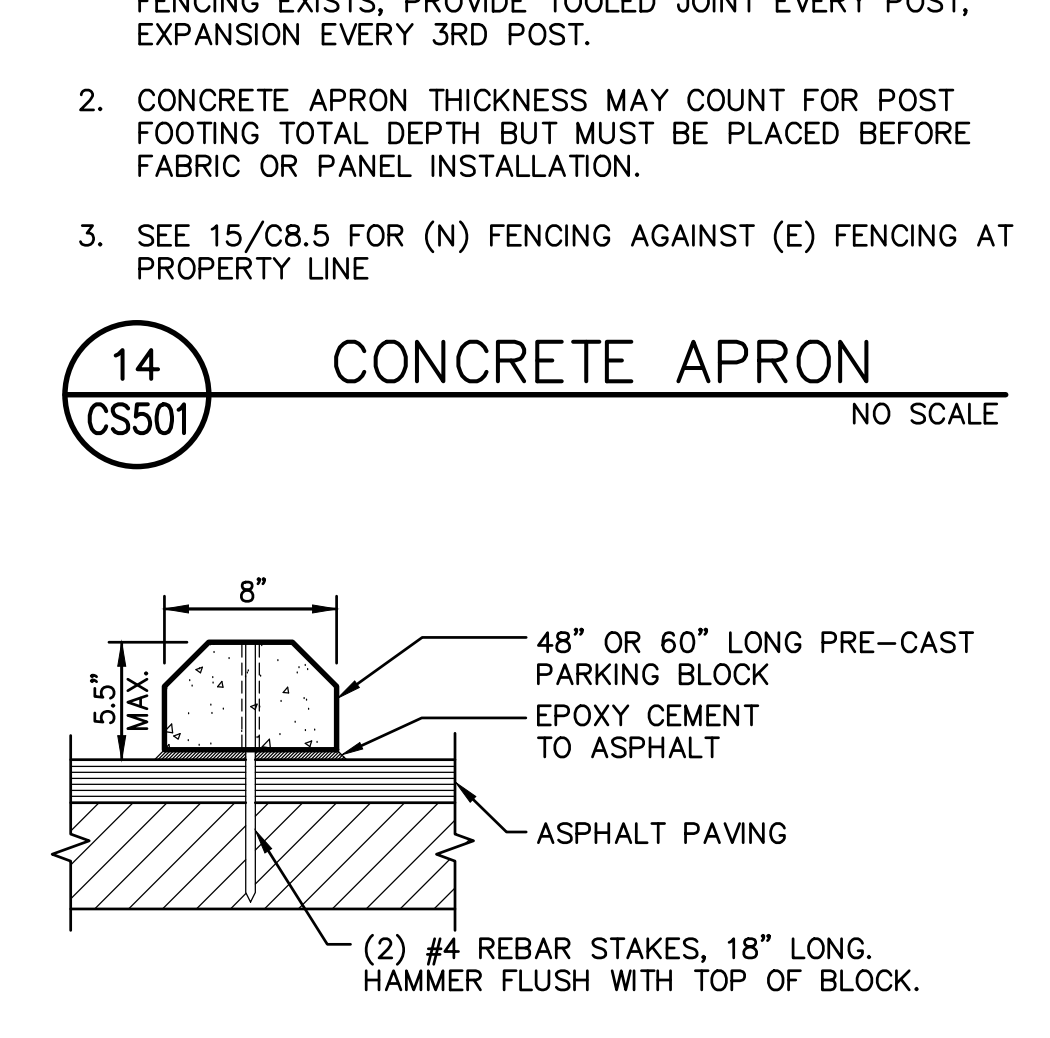
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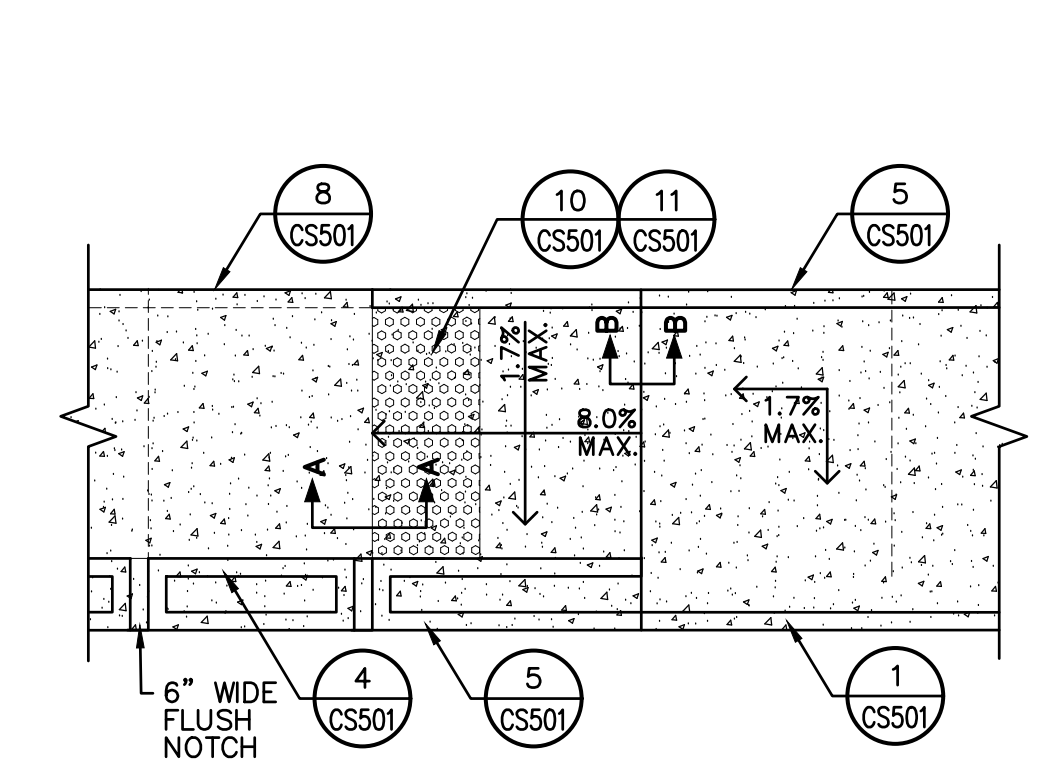
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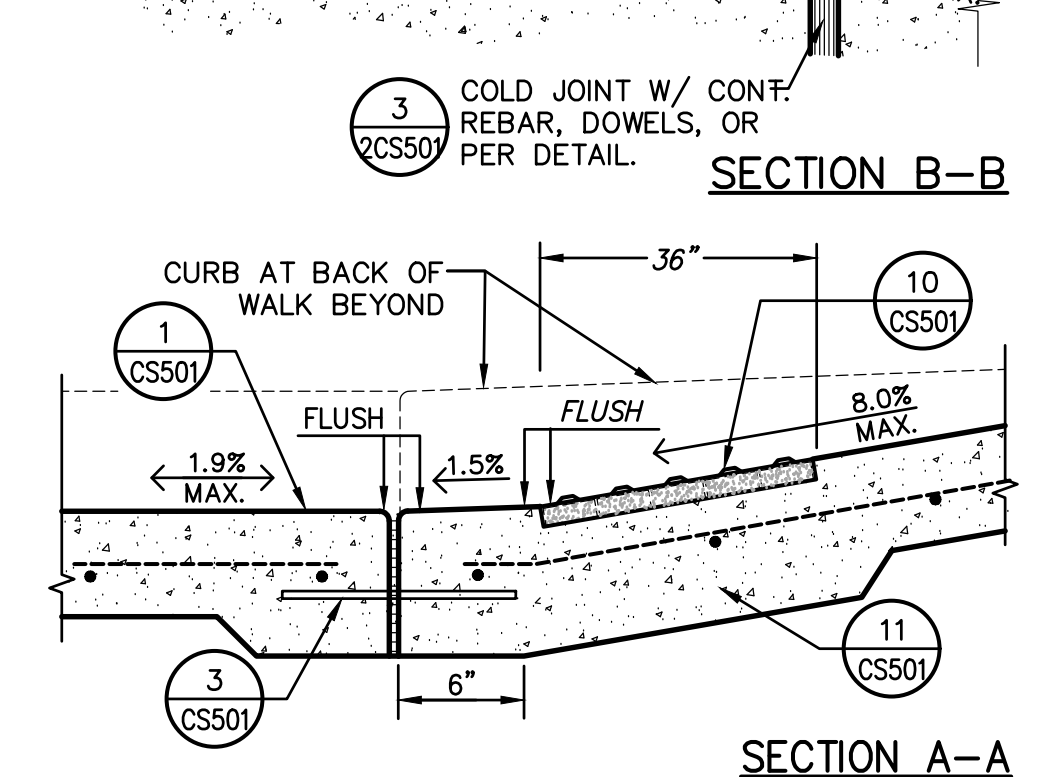
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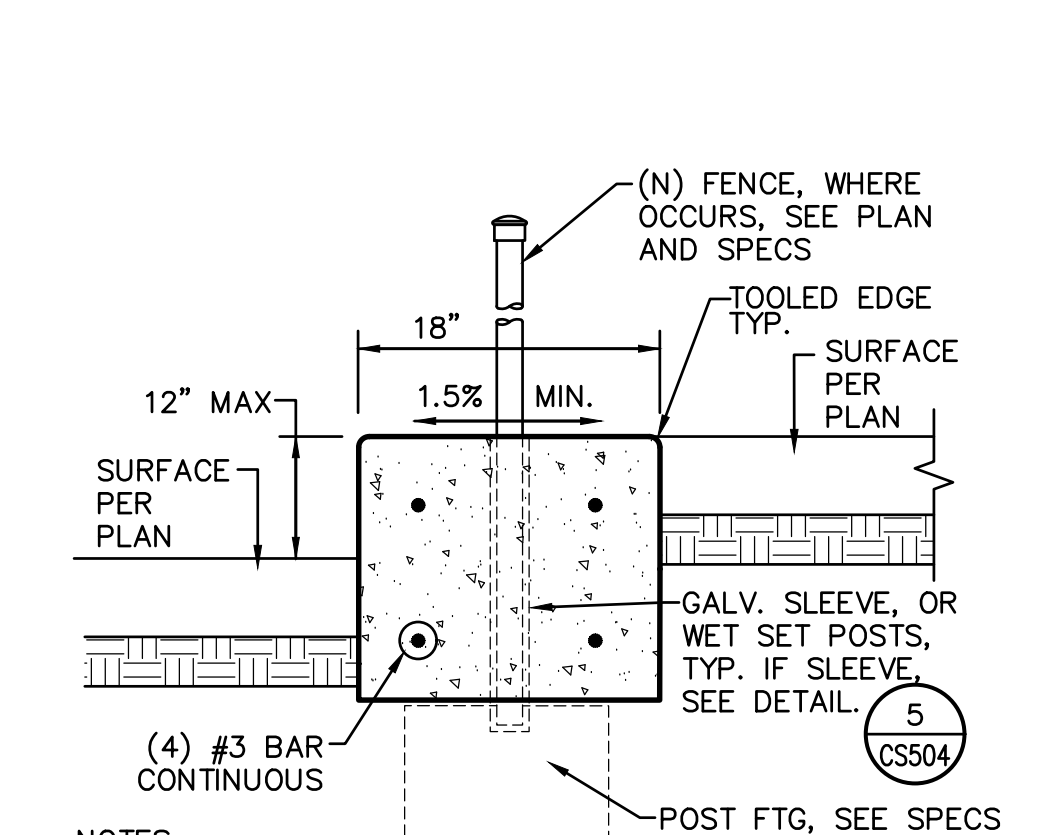
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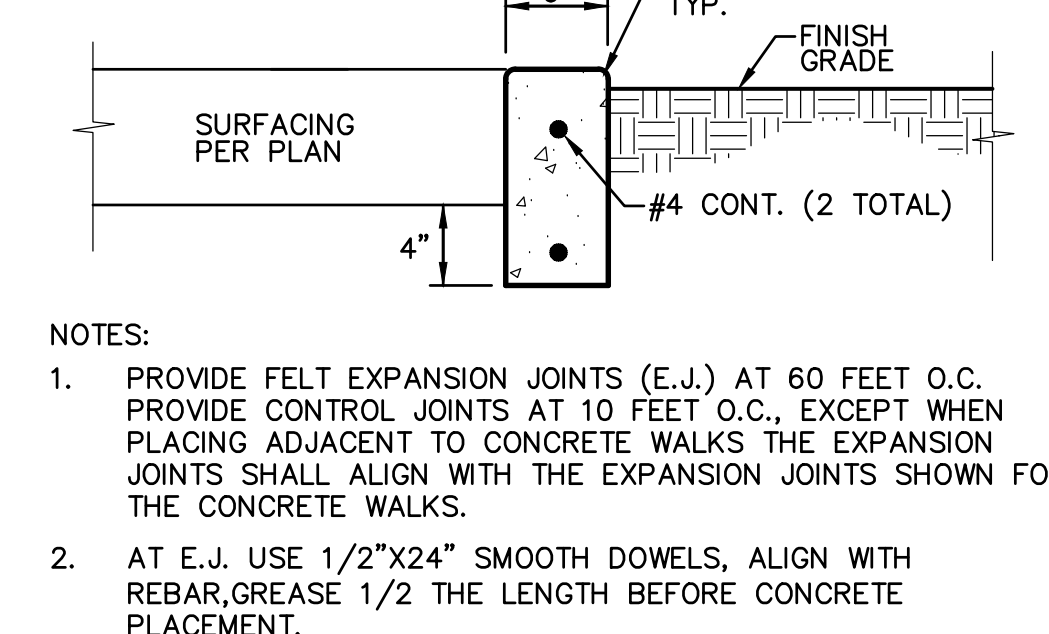
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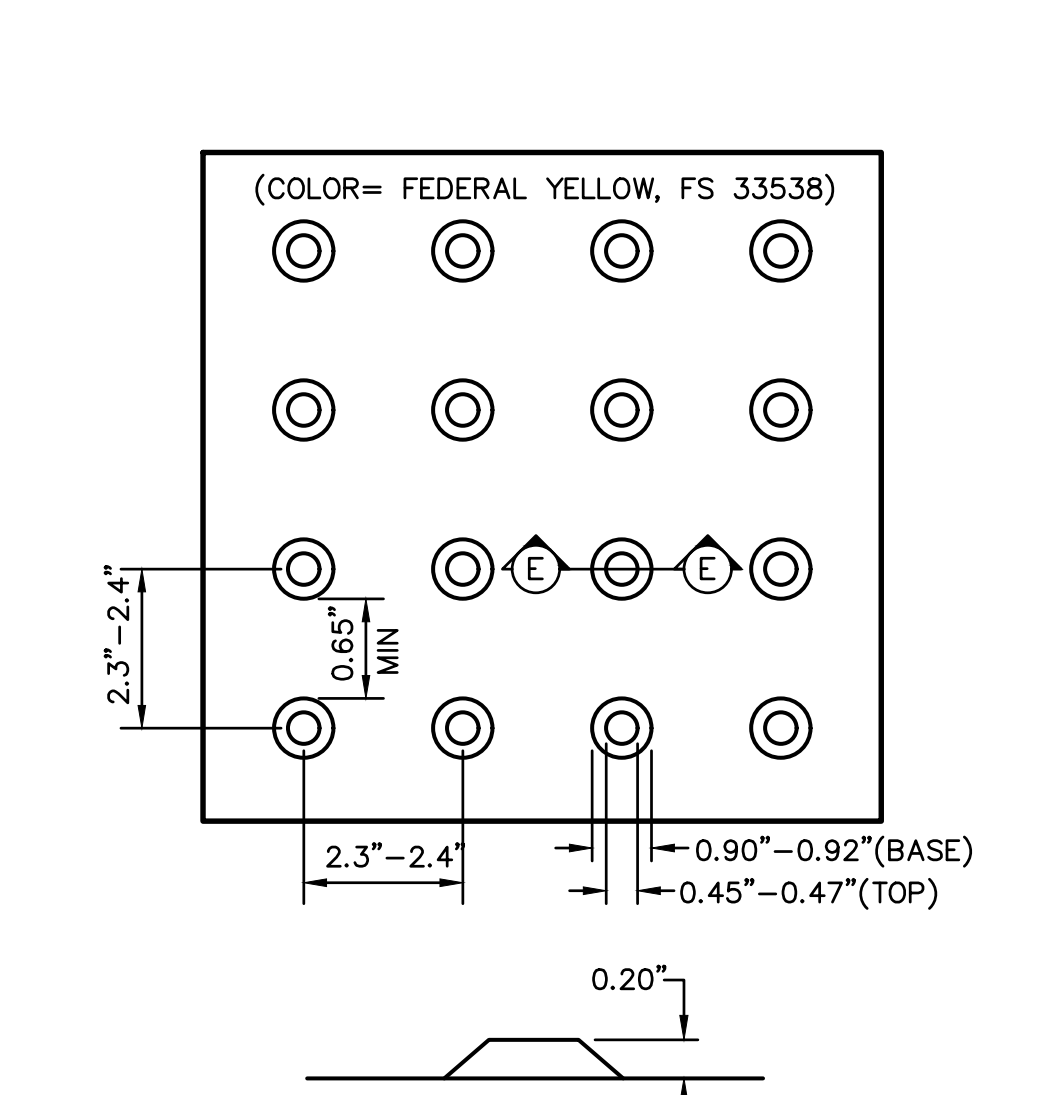
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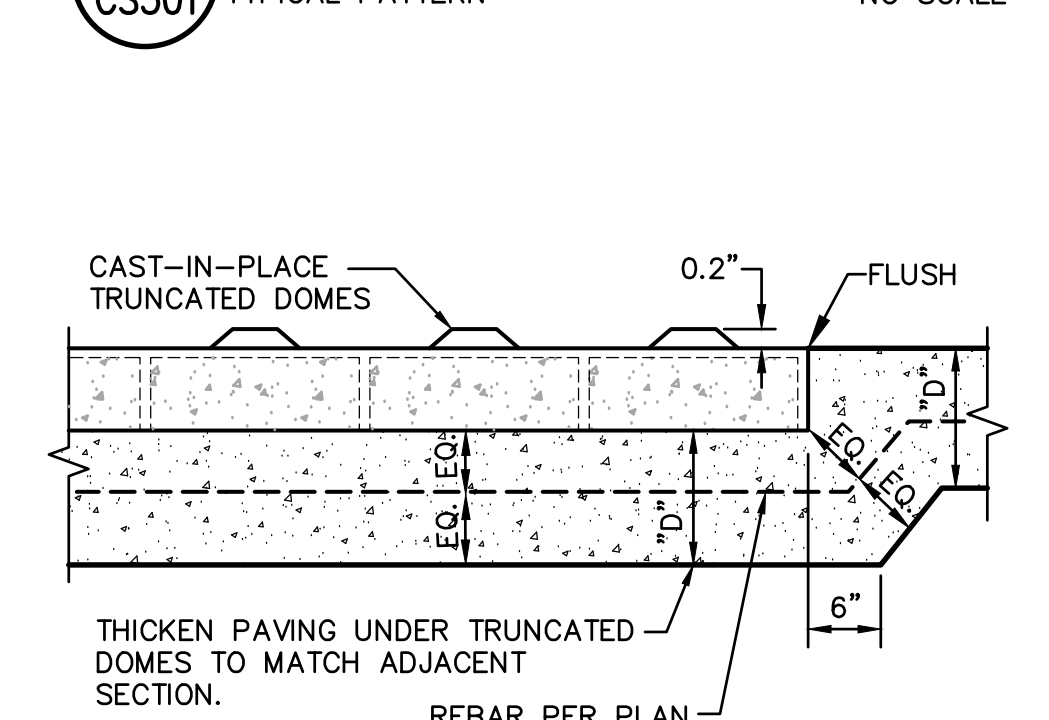
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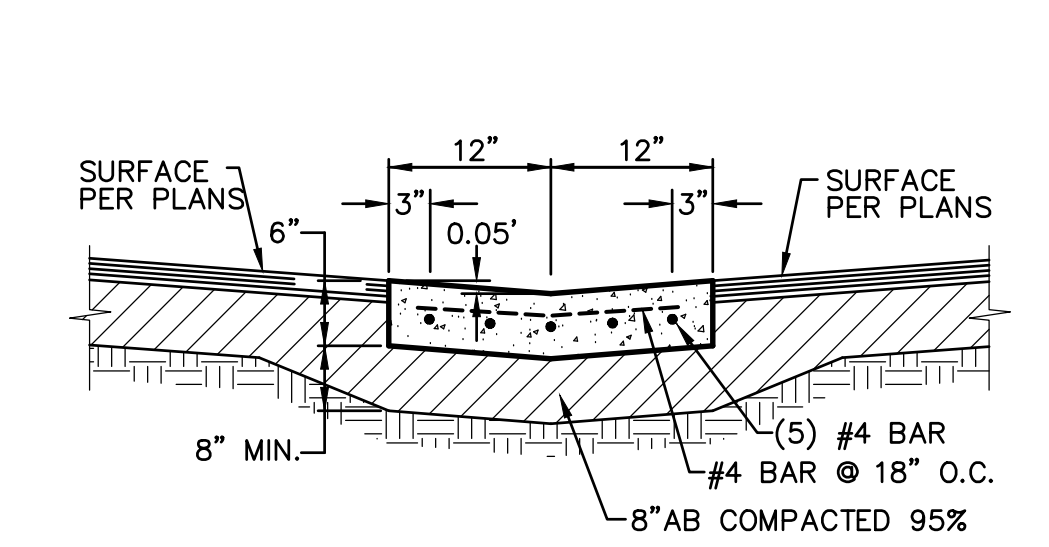
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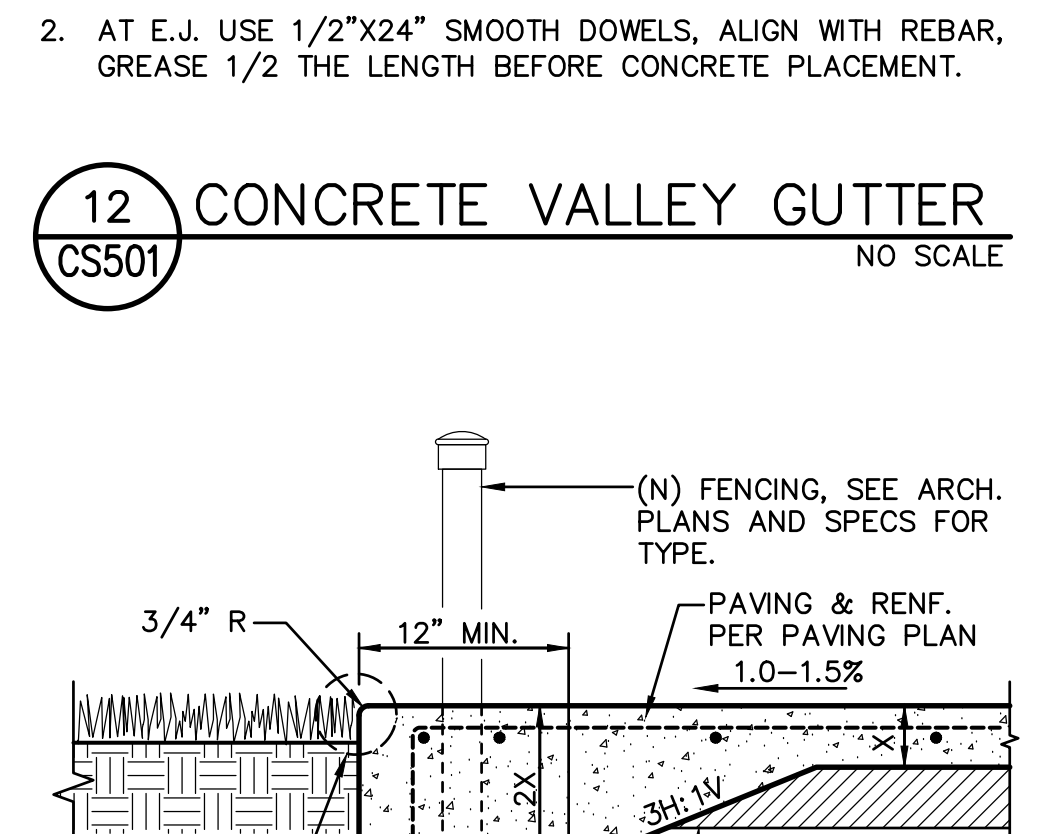
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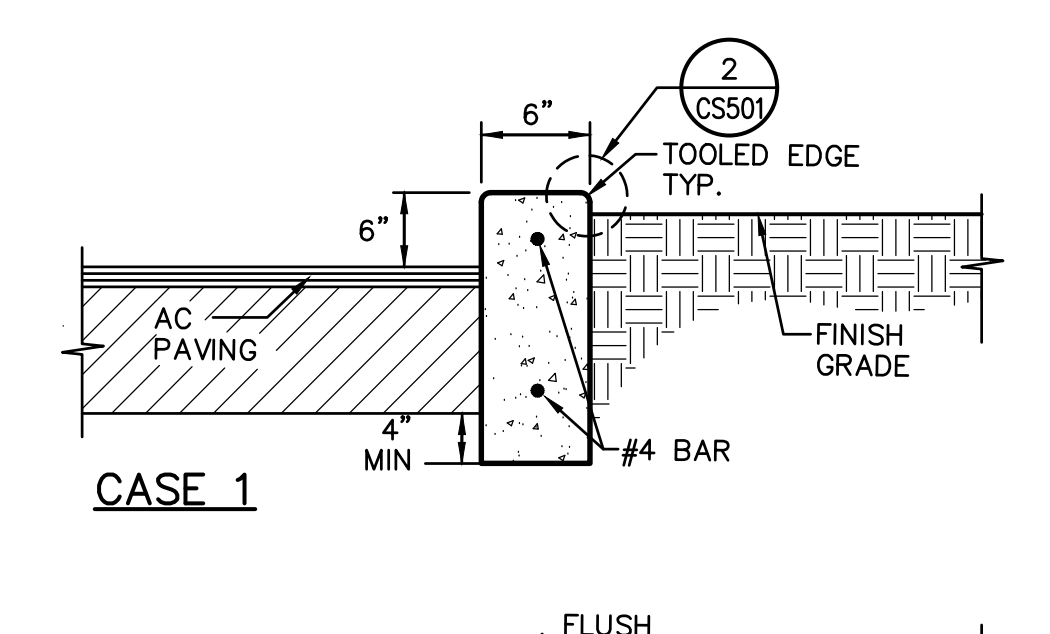
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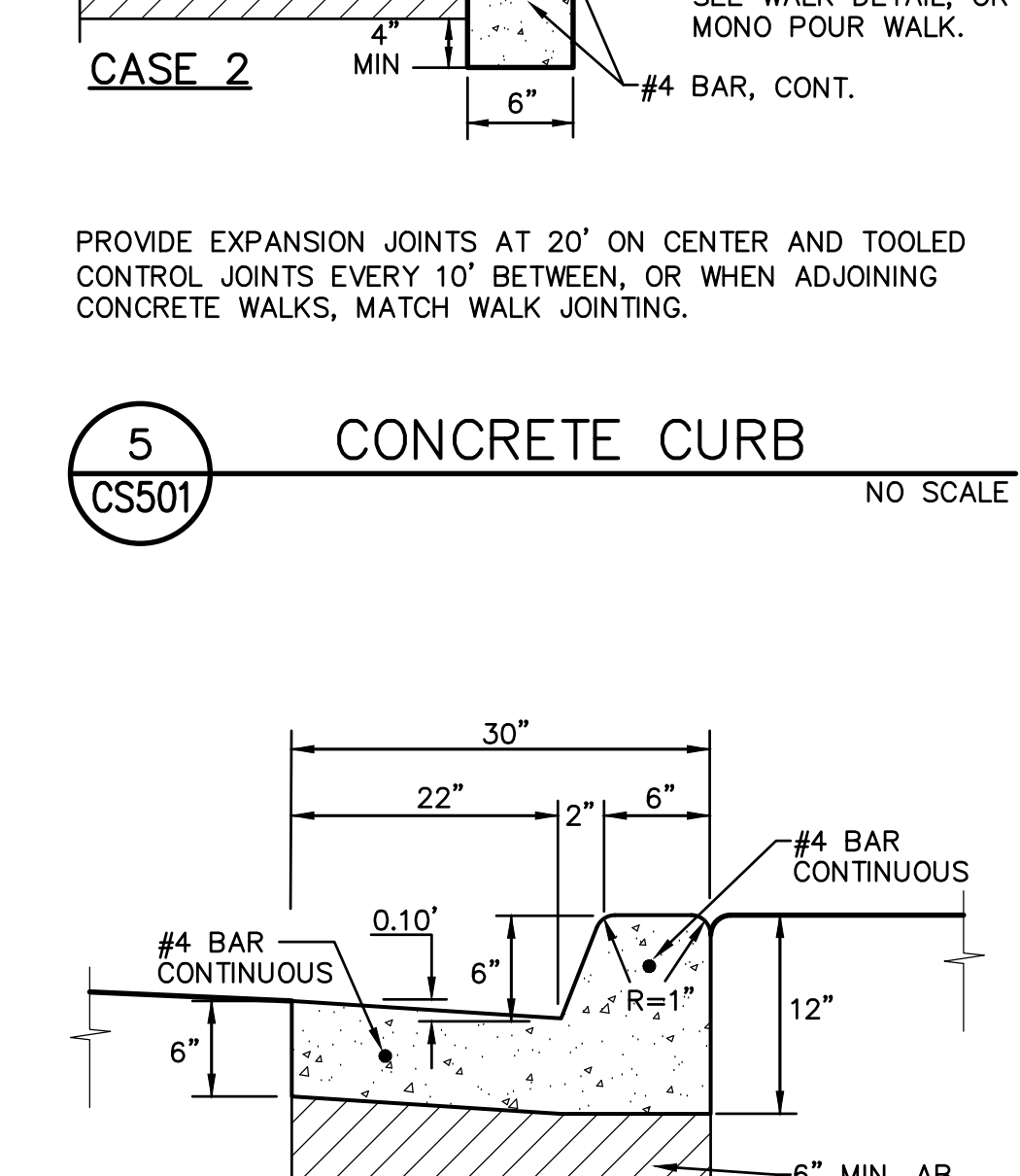
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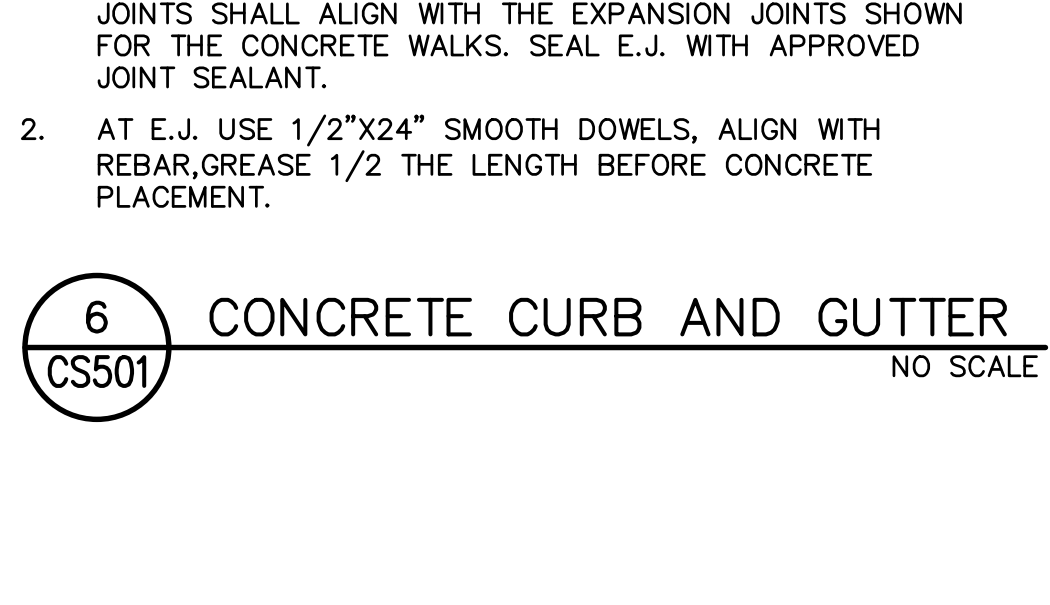
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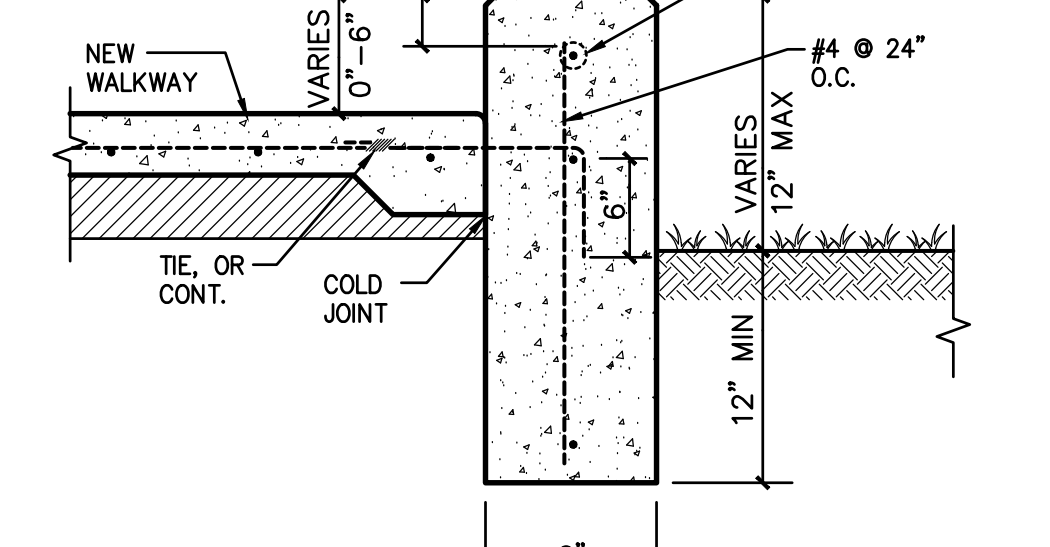
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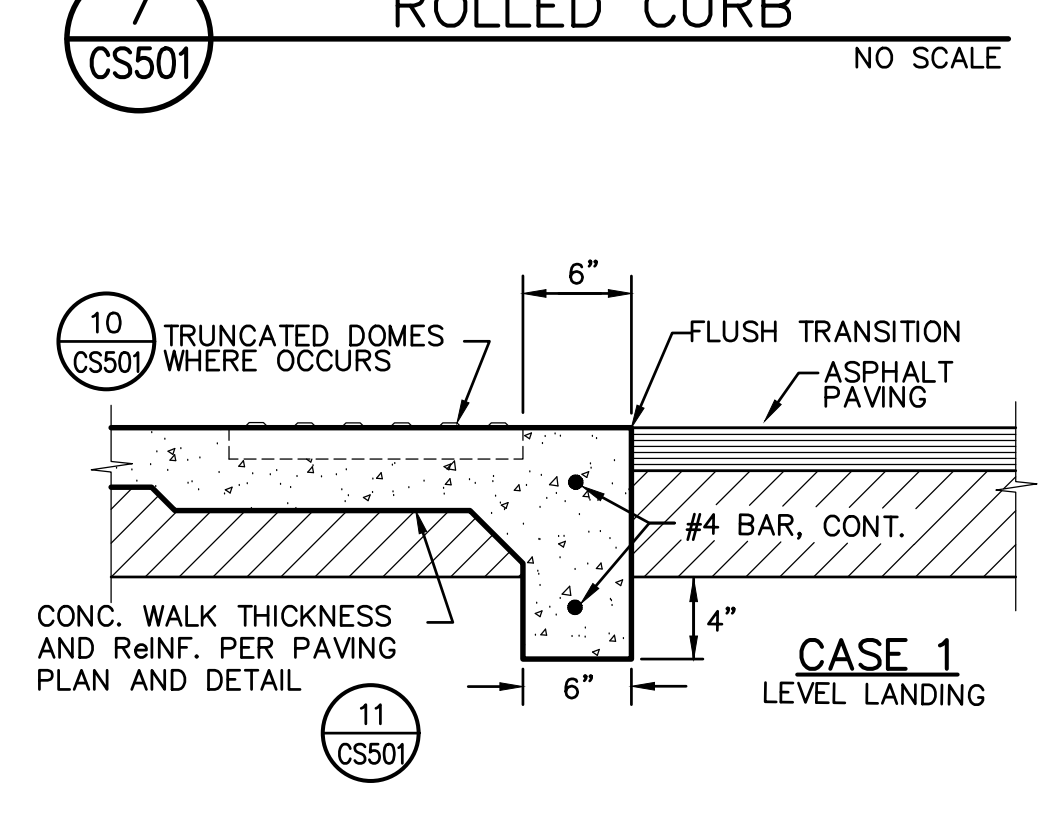
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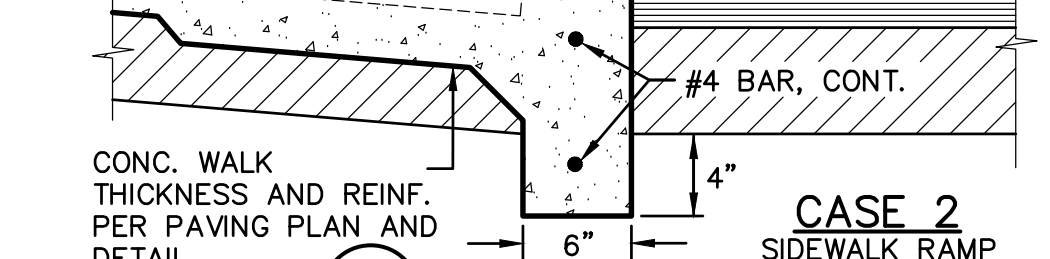
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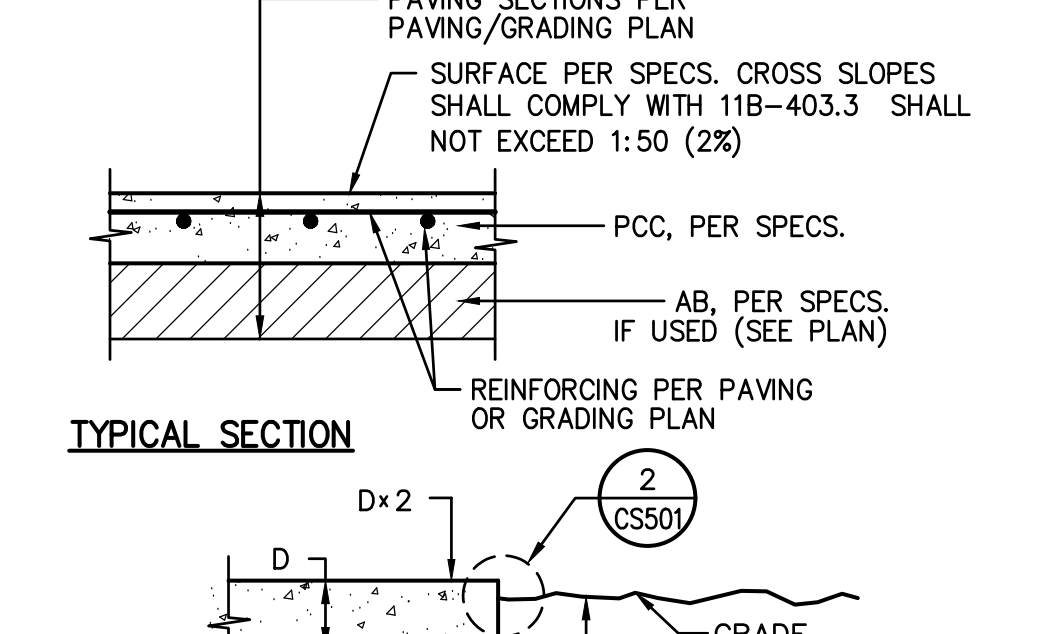
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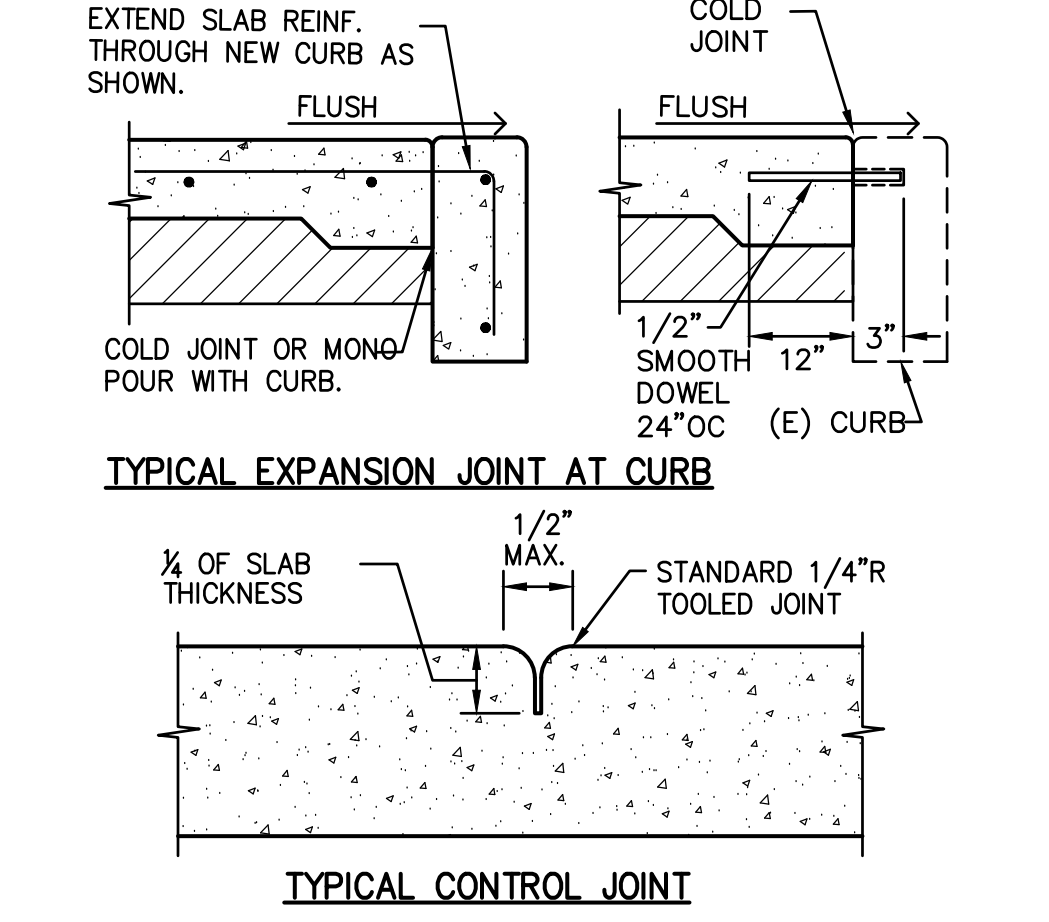
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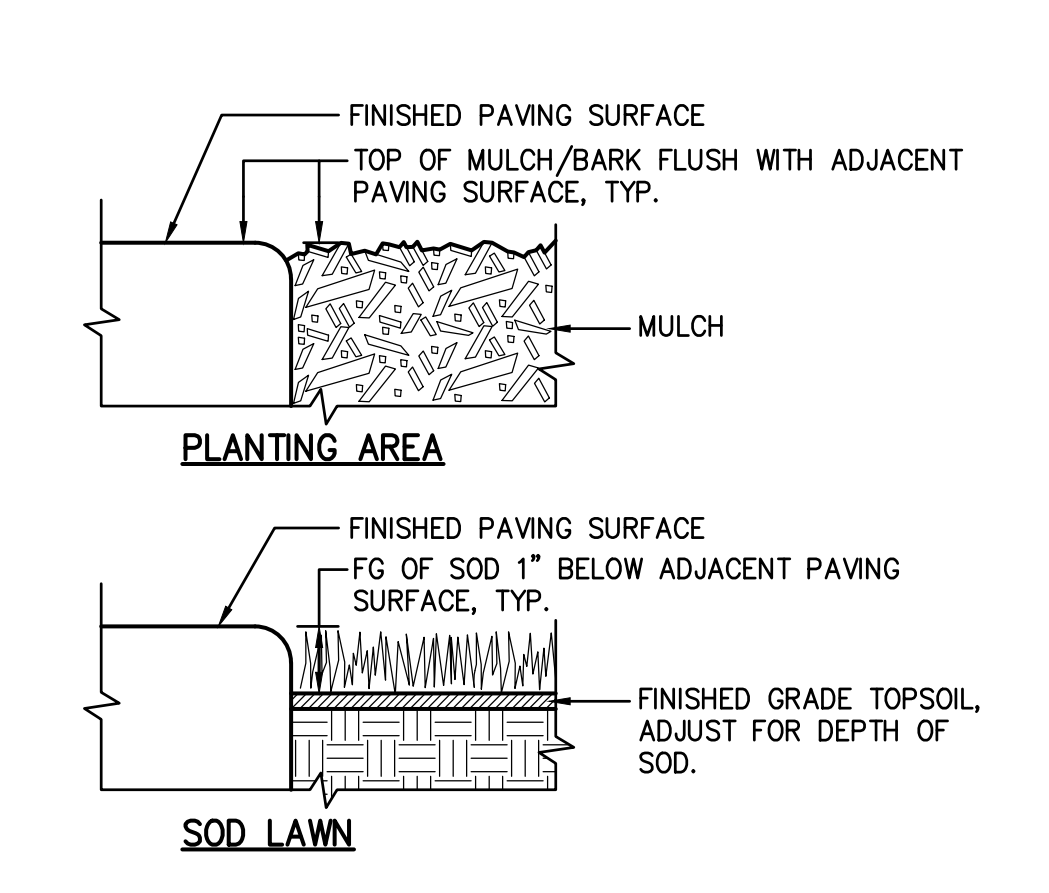
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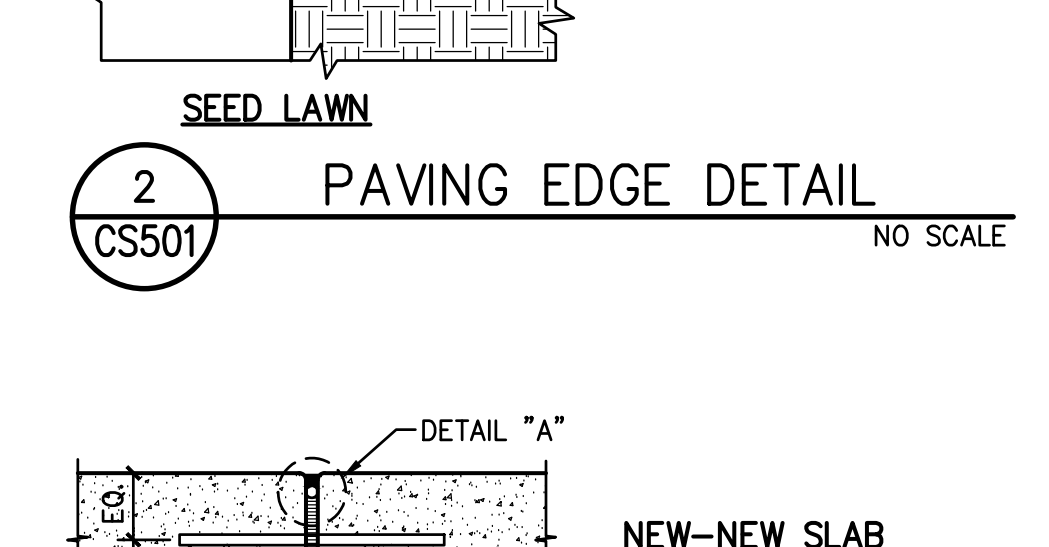
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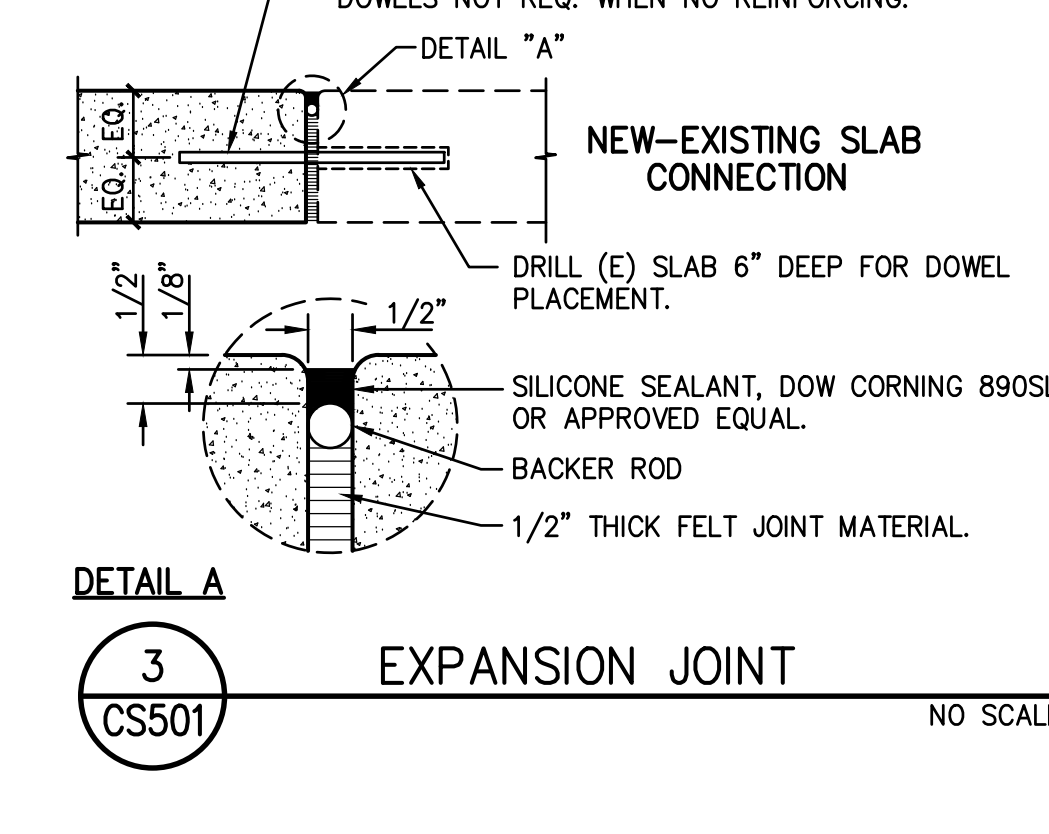
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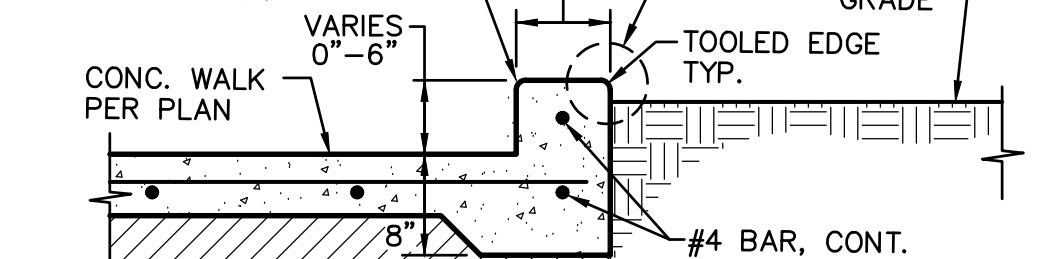
2 CS501



2 CS501



3 CS501



4 CS501

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.

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.

NOTES:  
 1. PROVIDE FELT EXPANSION JOINTS (E.J.) AT 60 FEET O.C. SEAL E.J. WITH APPROVED JOINT SEALANT. PROVIDE CONTROL JOINTS AT 10 FEET O.C.  
 2. AT E.J. USE 1/2"x24" SMOOTH DOWELS, ALIGN WITH REBAR, GREASE 1/2 THE LENGTH BEFORE CONCRETE PLACEMENT.

JOINTS: PROVIDE 1"x1" BEVEL CONTROL JOINT AT 10 FEET ON CENTER.  
 1. PROVIDE FELT EXPANSION JOINTS (E.J.) AT 60 FEET O.C. SEAL E.J. WITH APPROVED JOINT SEALANT. PROVIDE CONTROL JOINTS AT 10 FEET O.C.  
 2. AT E.J. USE 1/2"x24" SMOOTH DOWELS, ALIGN WITH REBAR, GREASE 1/2 THE LENGTH BEFORE CONCRETE PLACEMENT.

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.

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.

LIONAKIS

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

CONSULTANT  
**WC**  
 WARREN CONSULTING ENGINEERS, INC.  
 1117 WINFIELD WAY, SUITE 110  
 EL CORONADO HILLS, CA 95730 (916) 985-1870

REGISTERED PROFESSIONAL ENGINEER  
 ANTHONY J. TASSANO  
 No. C74586  
 State of California  
 11/20/2023

PROJECT  
 LUTHER BURBANK HIGH SCHOOL  
 ATHLETIC FIELDS RENOVATION

3500 FLORIN ROAD  
 SACRAMENTO, CA 95823

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

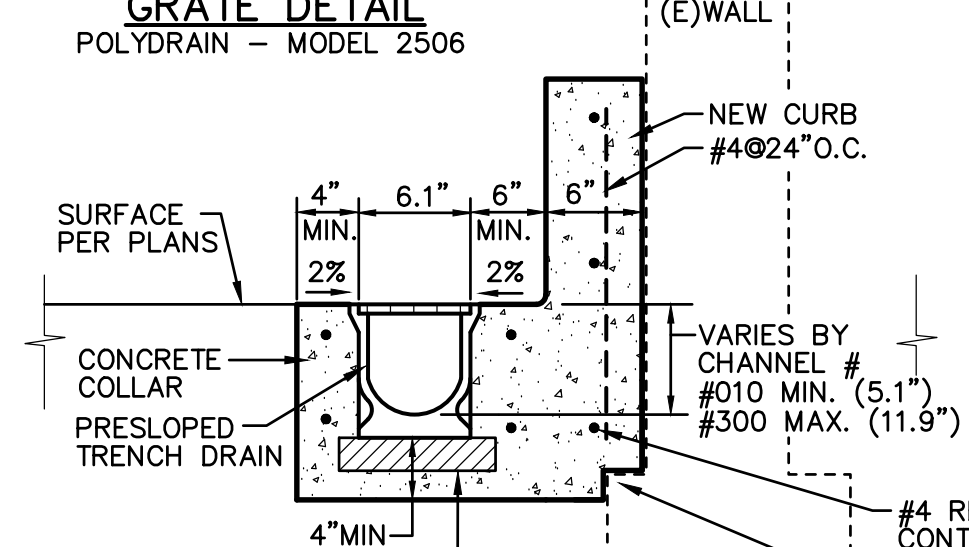
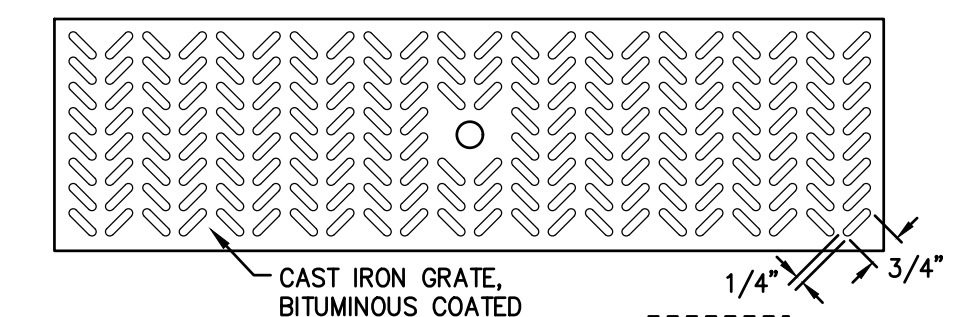
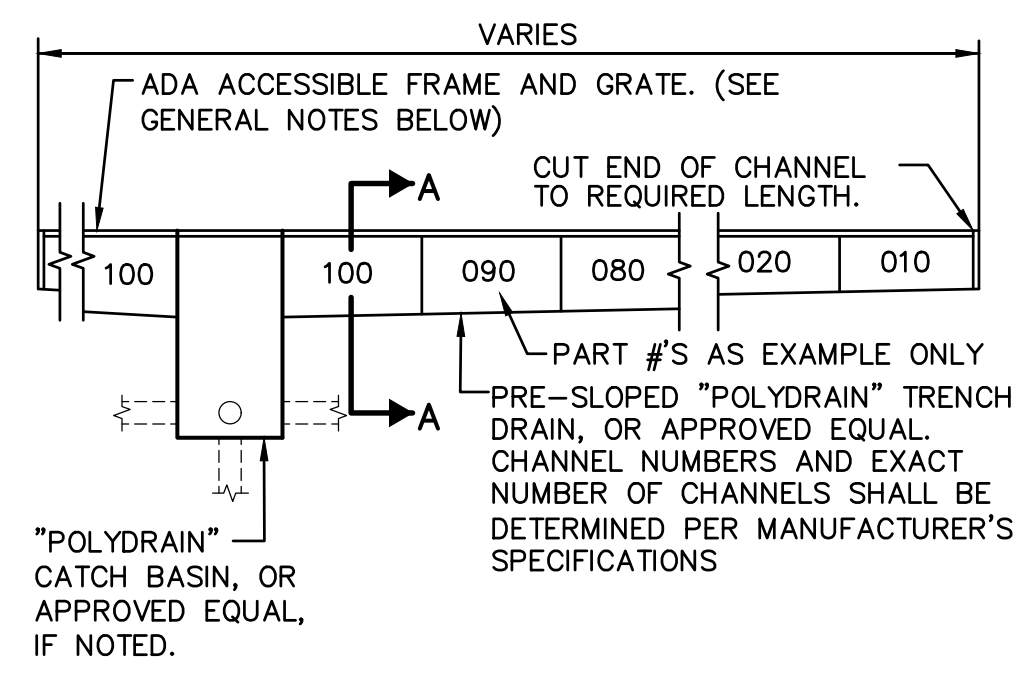
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-	8.10.2023	DSA SUBMITTAL
-	12/01/2023	BID SET - NOT DSA APPROVED

MANAGEMENT	DESCRIPTION
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DSA APPLICATION NO.	02-121593
CLIENT PROJECT NO.	#####
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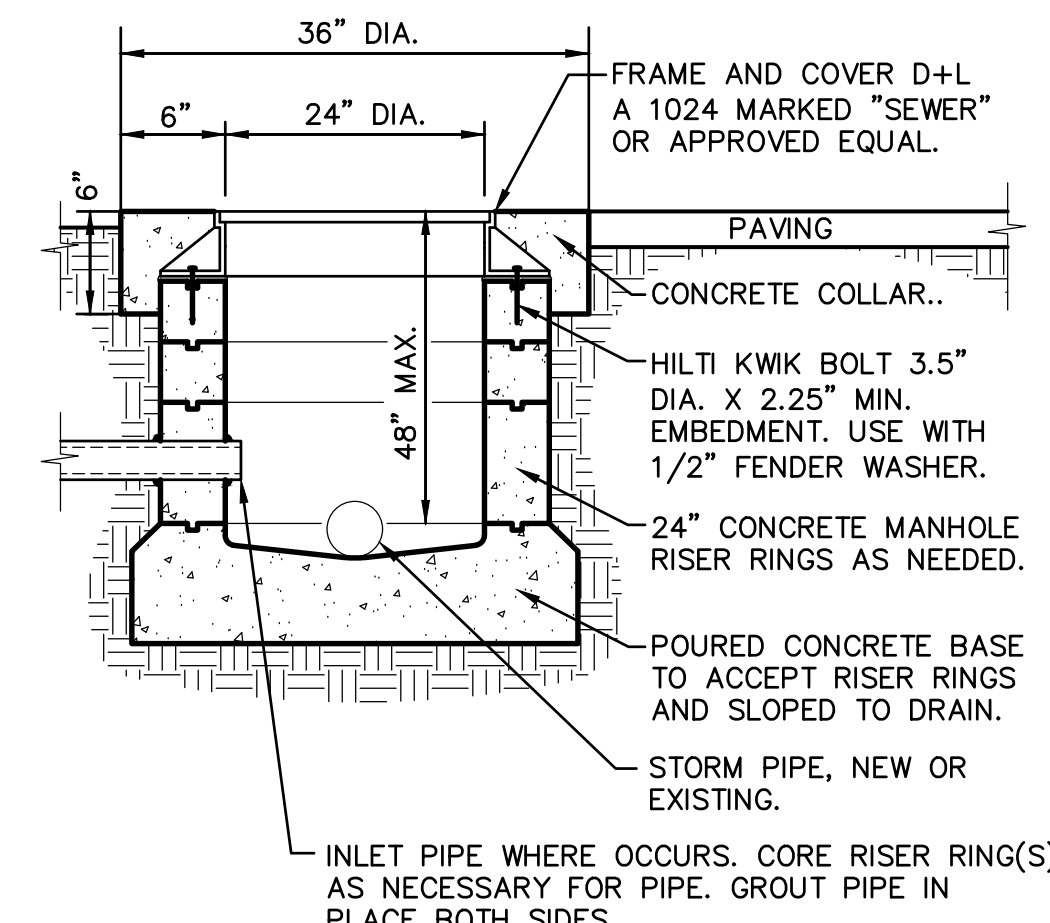
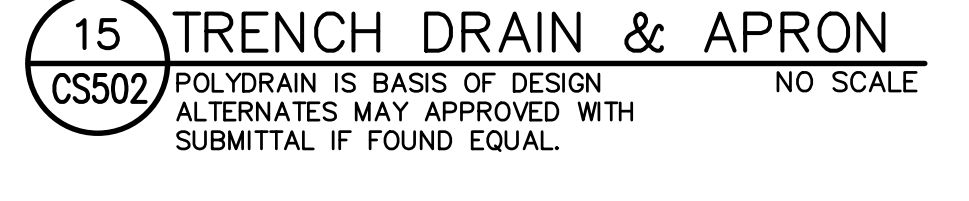
TITLE  
 SITE DETAILS

SHEET  
 CS501

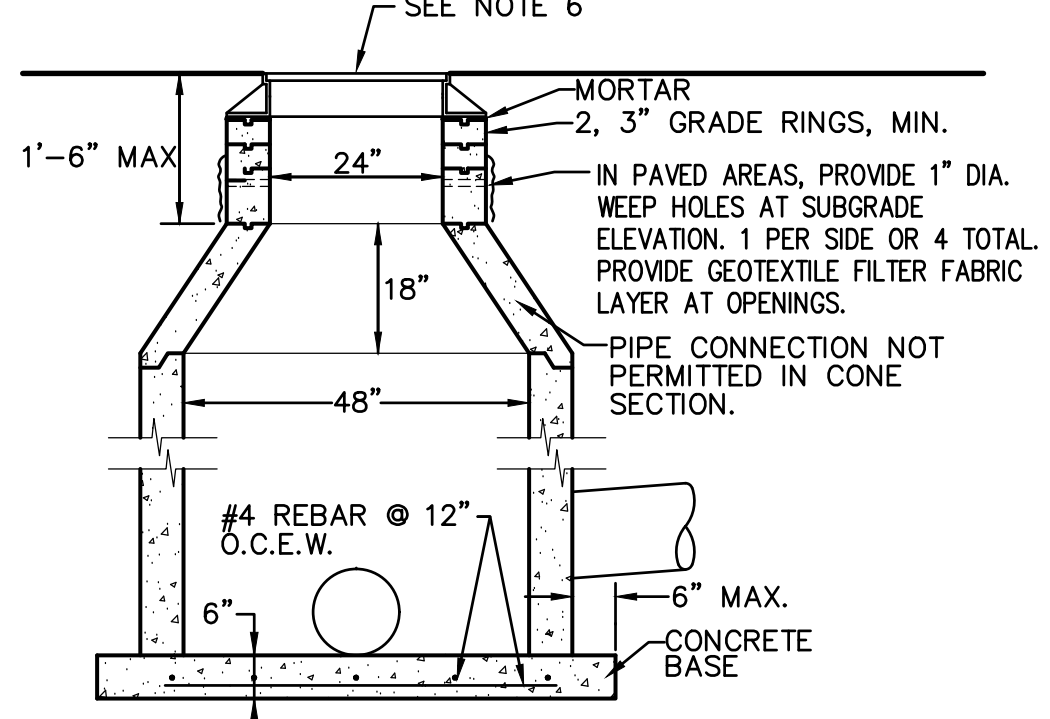
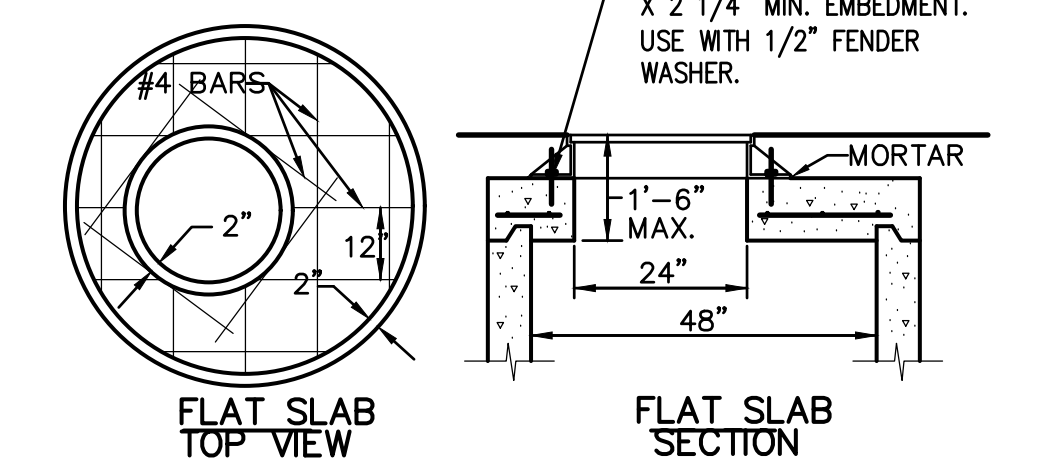
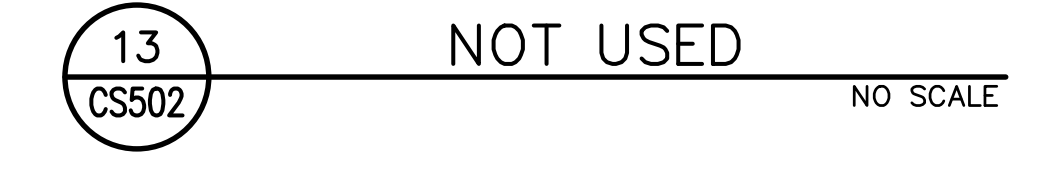
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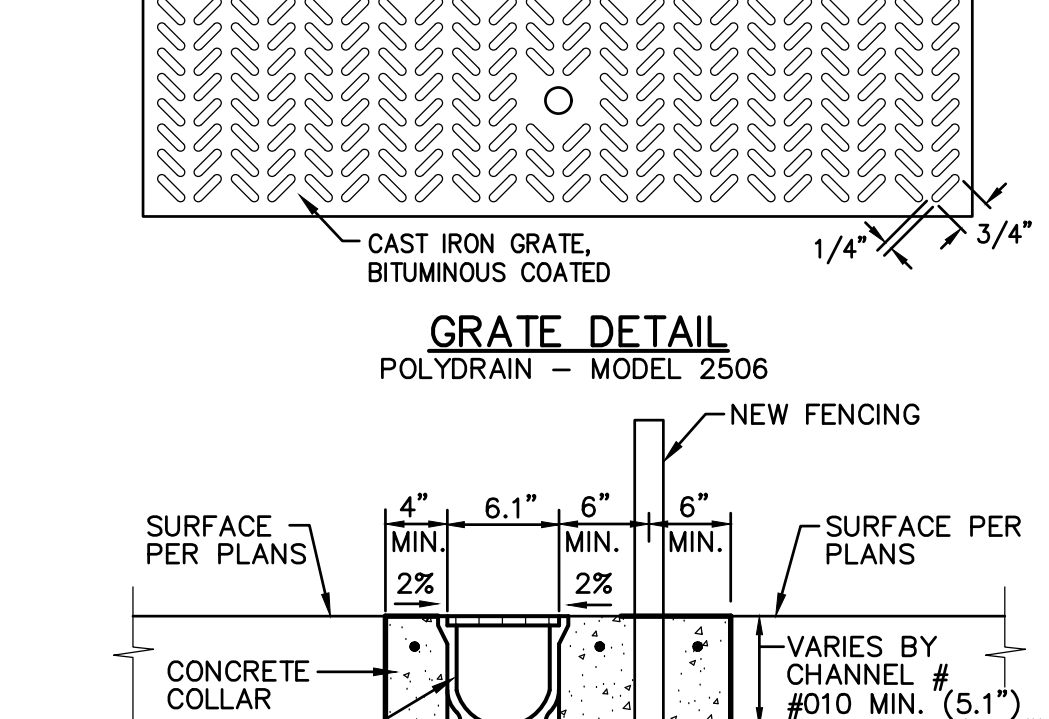
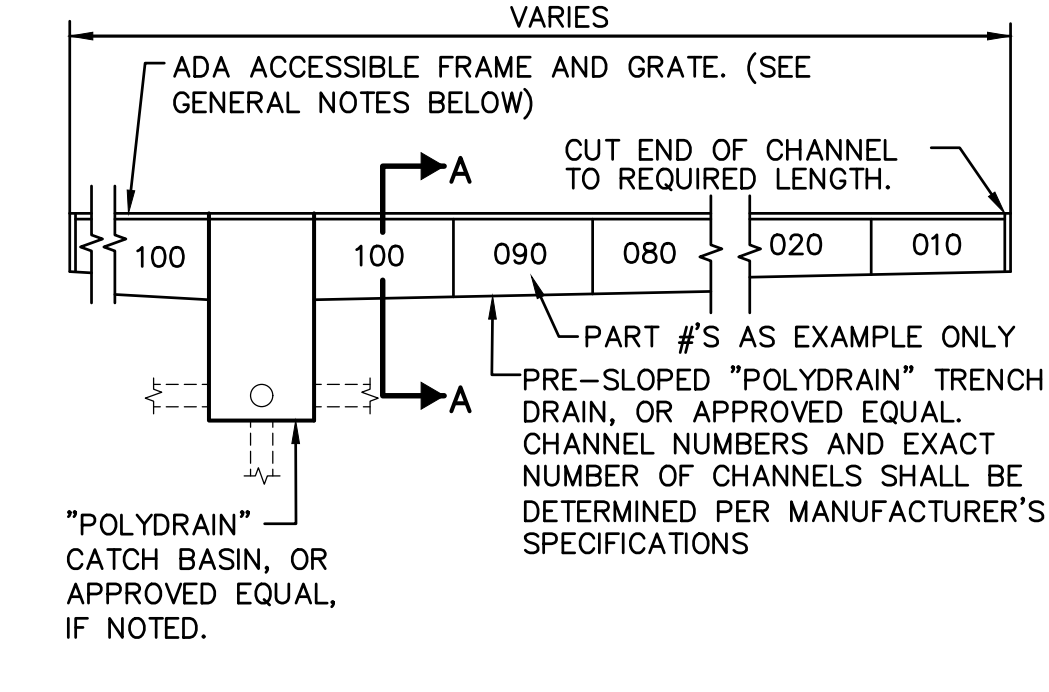
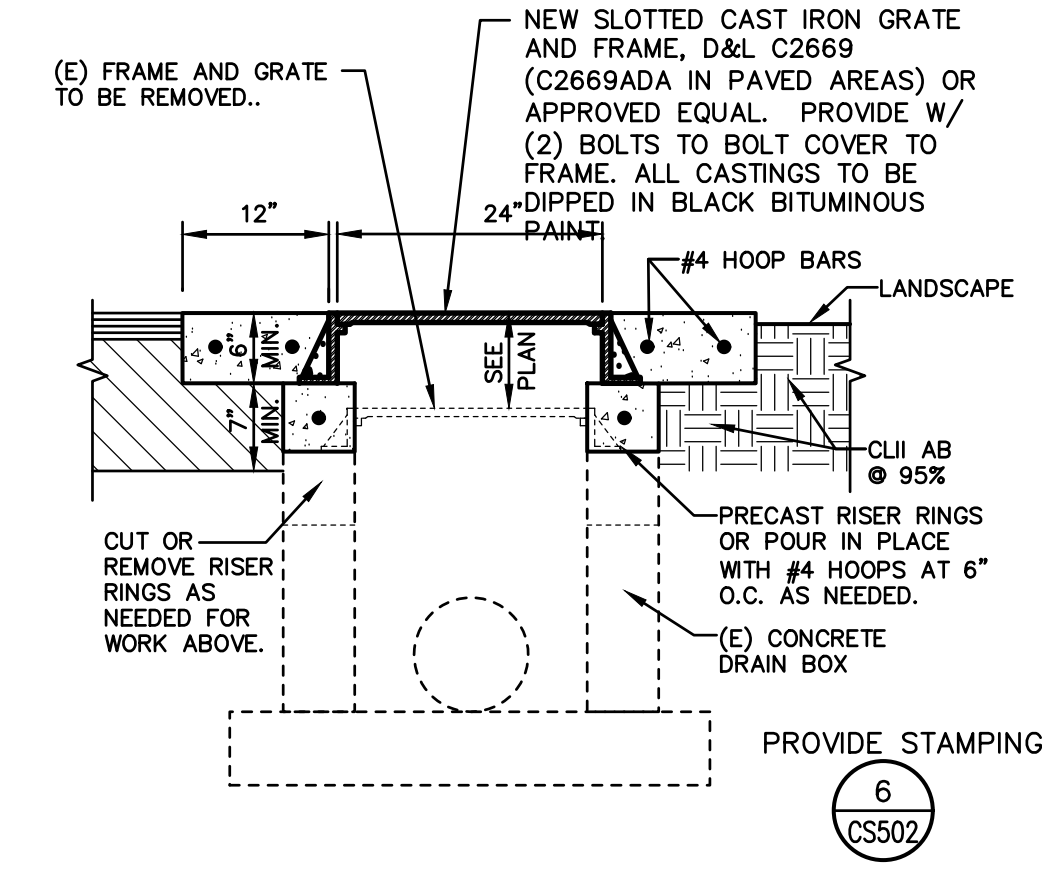
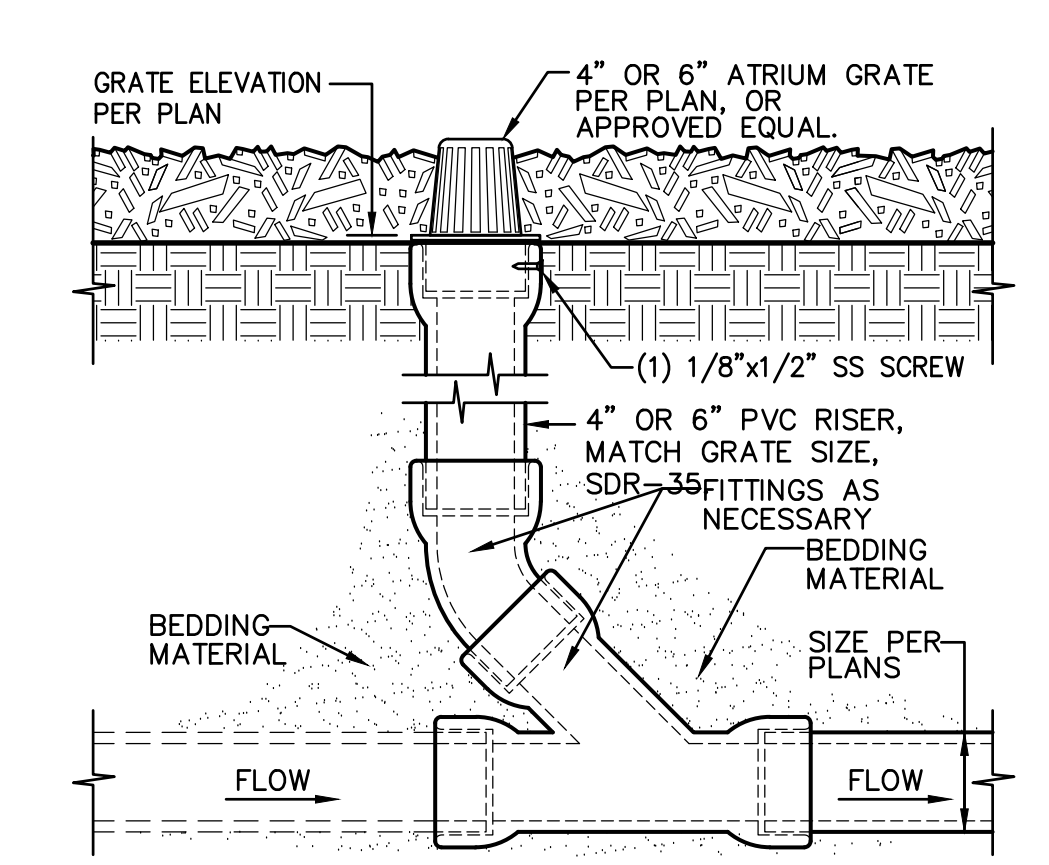
- GENERAL NOTES:**
- GRATE SHALL BE CAST IRON, TRAFFIC RATED (WHERE SPECIFIED), HEELPROOF, MULTI-DIRECTIONALLY ADA ACCESSIBLE GRATE WITH MANUFACTURER'S OR PRE-INSTALLATION APPLIED RUST INHIBITIVE BLACK COATING. NON-TRAFFIC MAINTENANCE AREAS MAY BE GALVANIZED STEEL, SEE BELOW.  
POLYDRAIN - MODEL 2506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



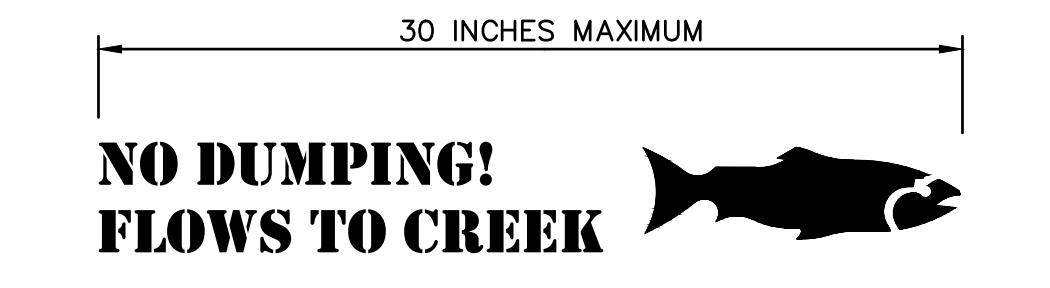
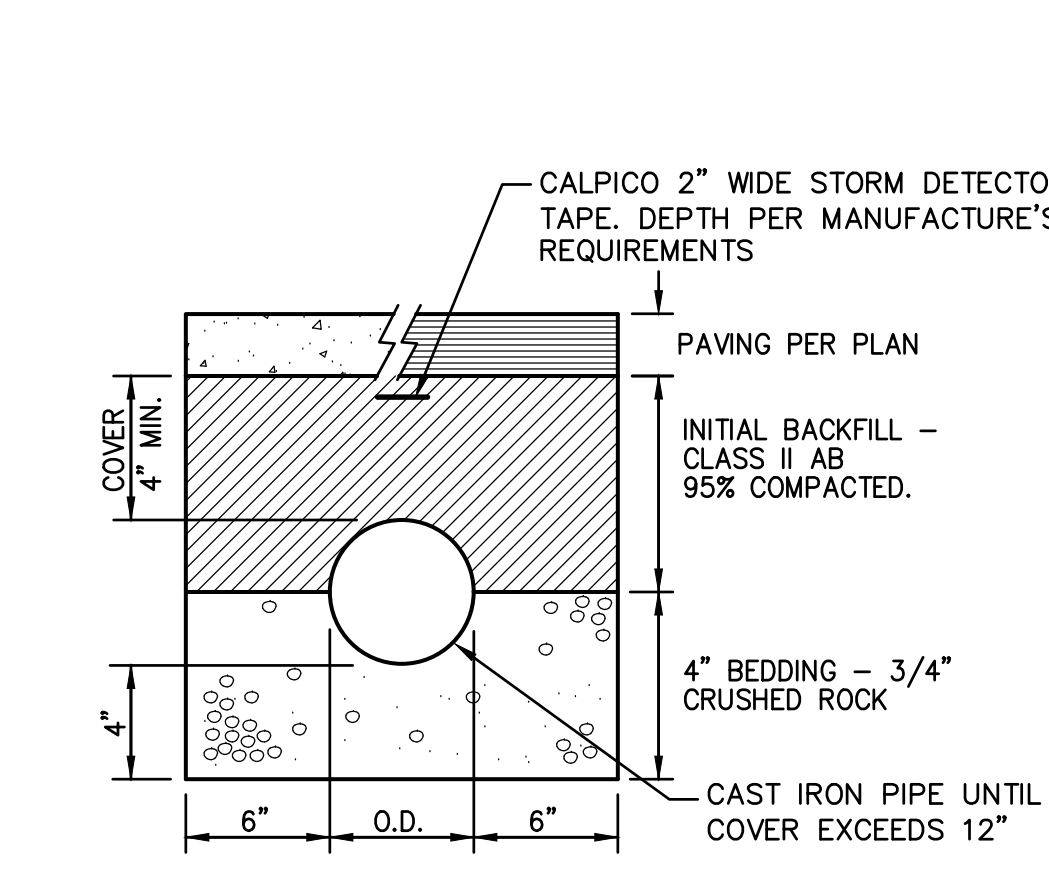
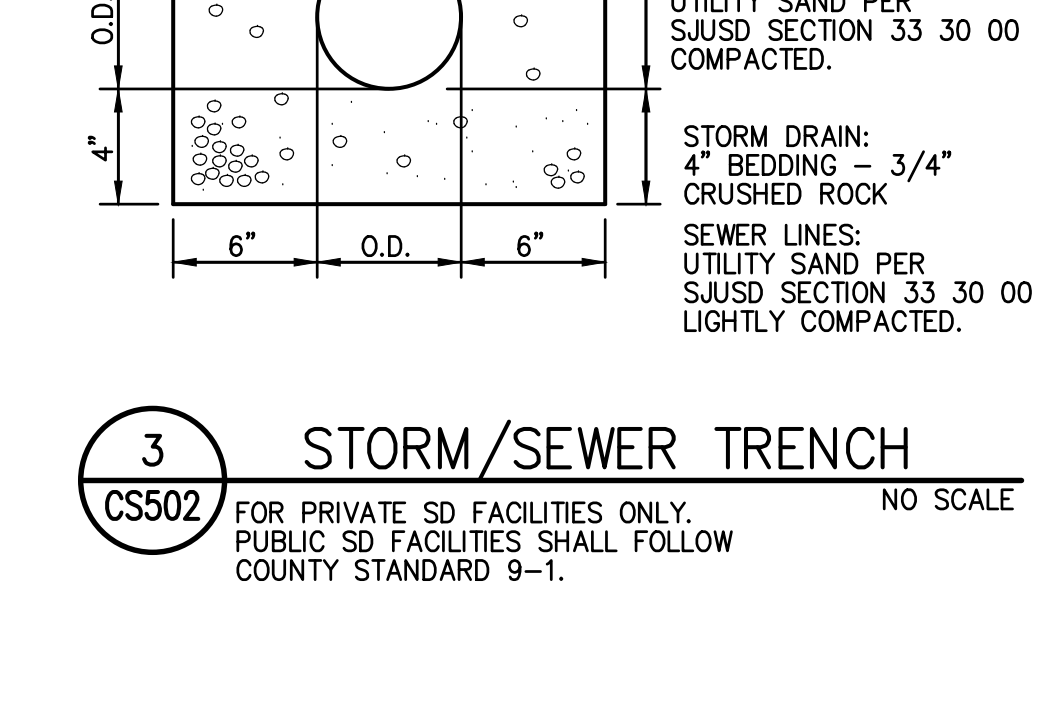
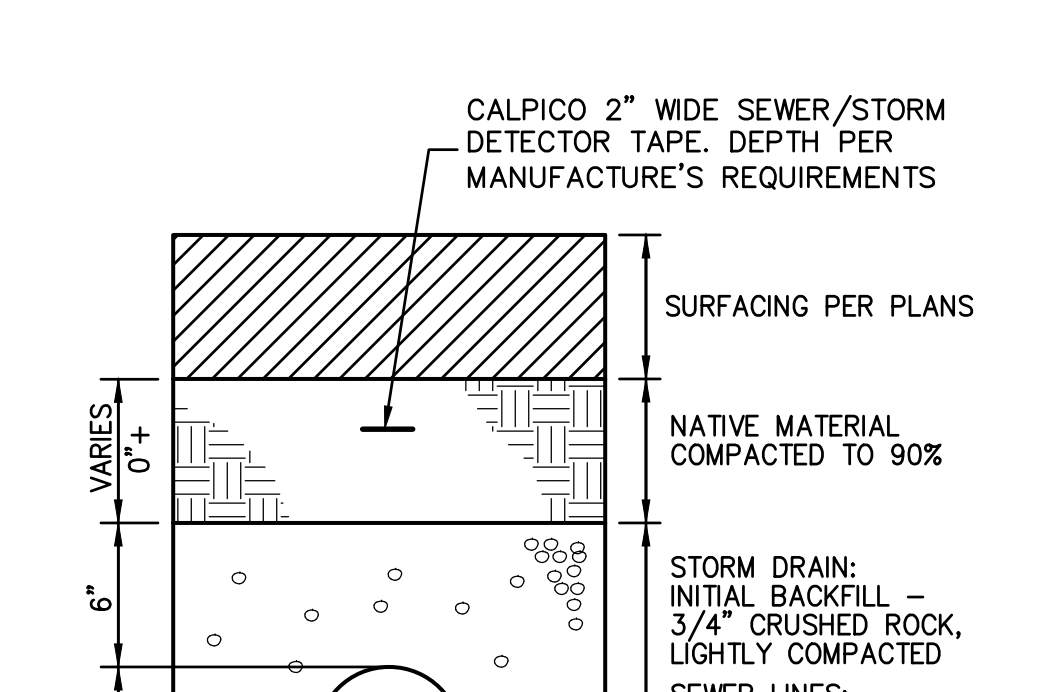
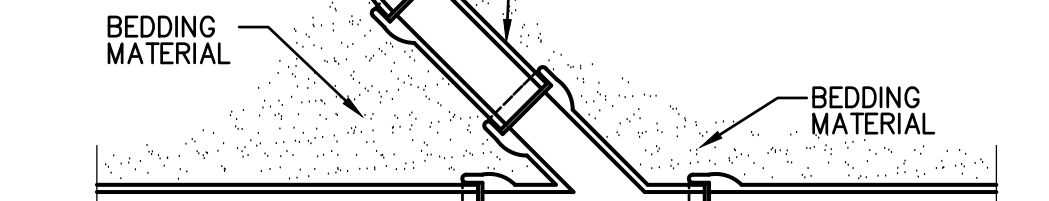
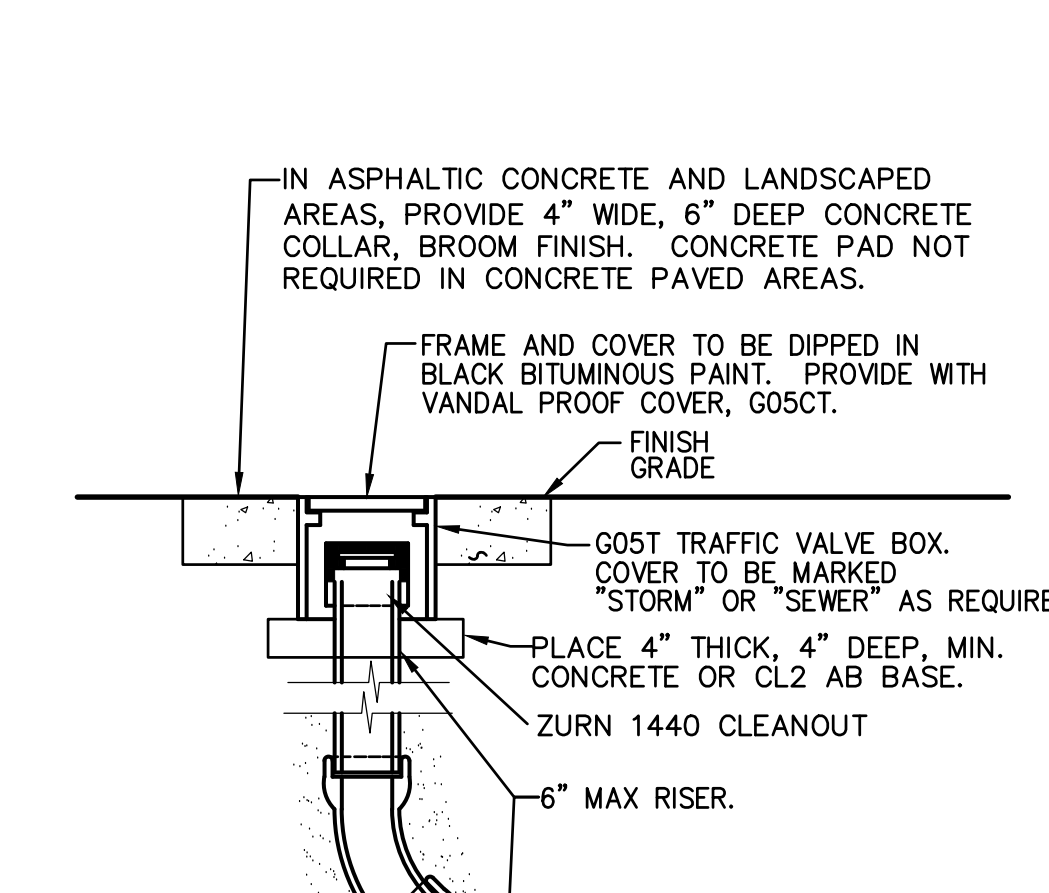
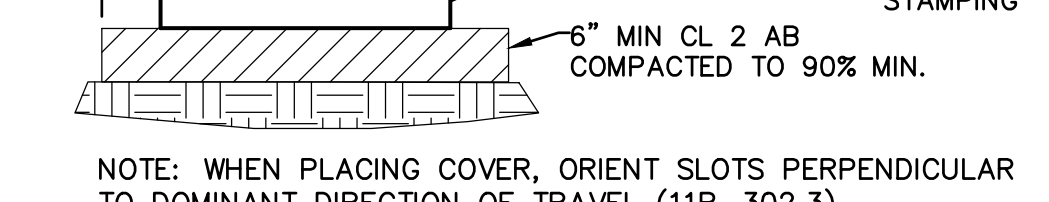
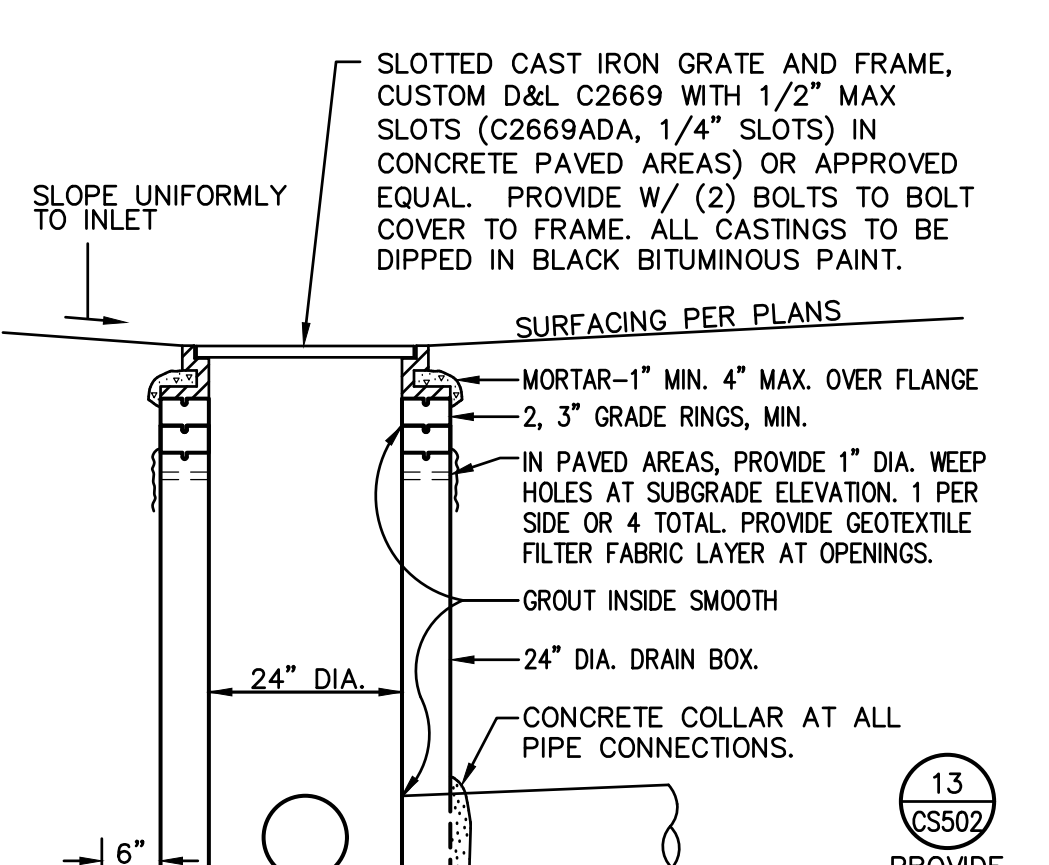
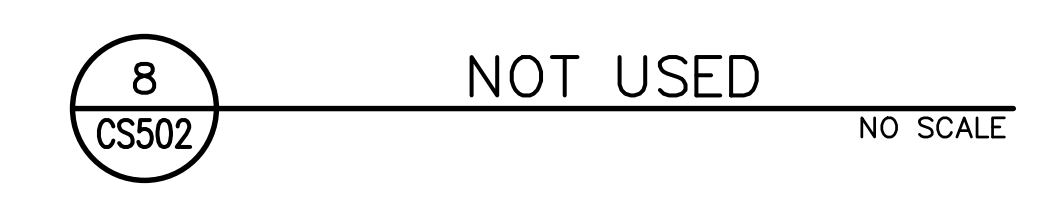
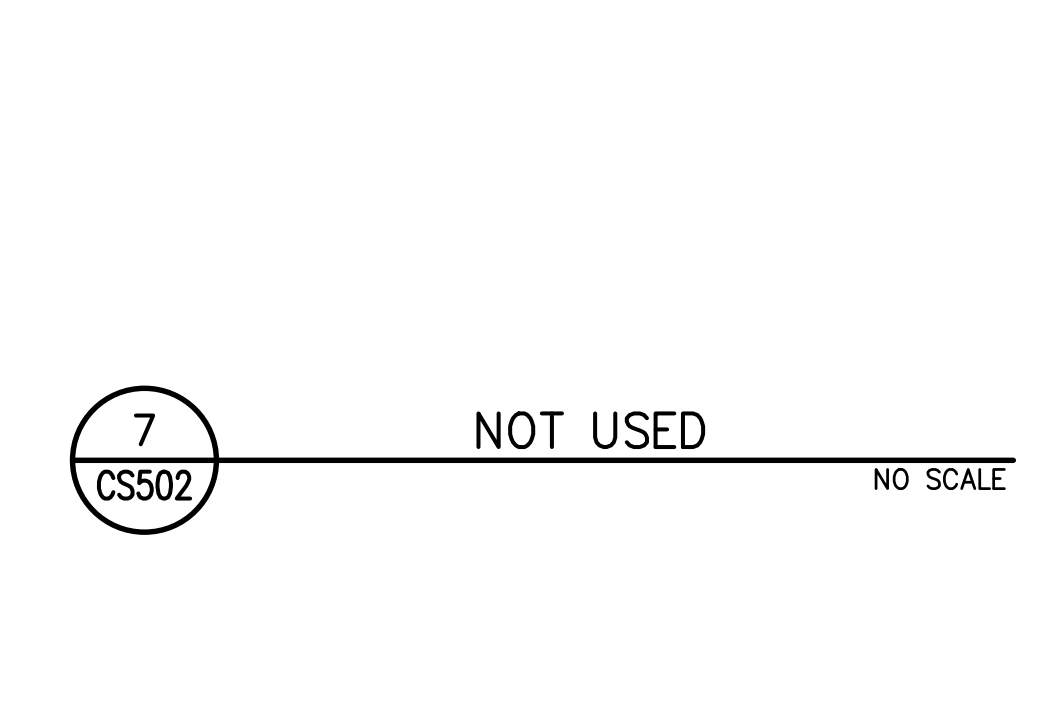
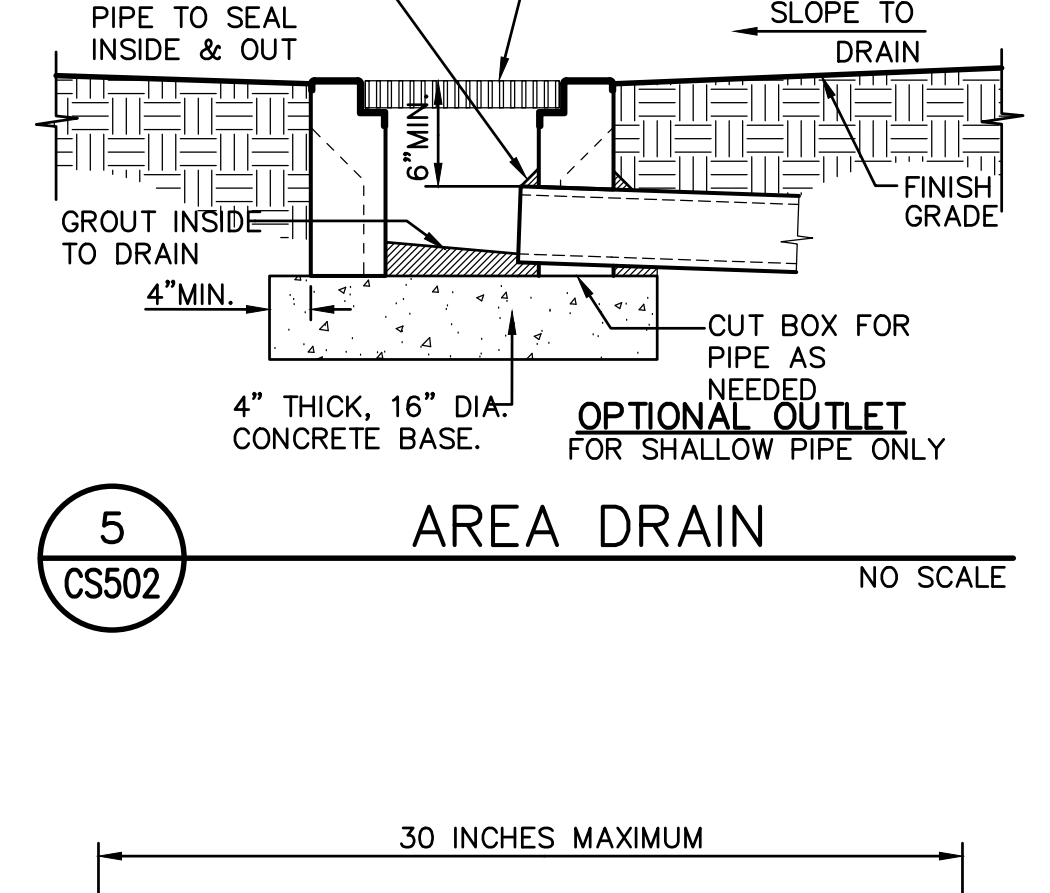
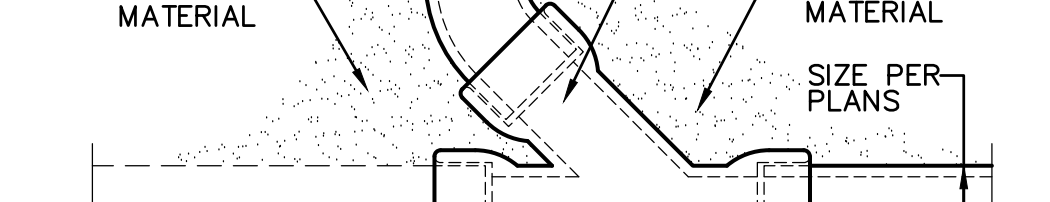
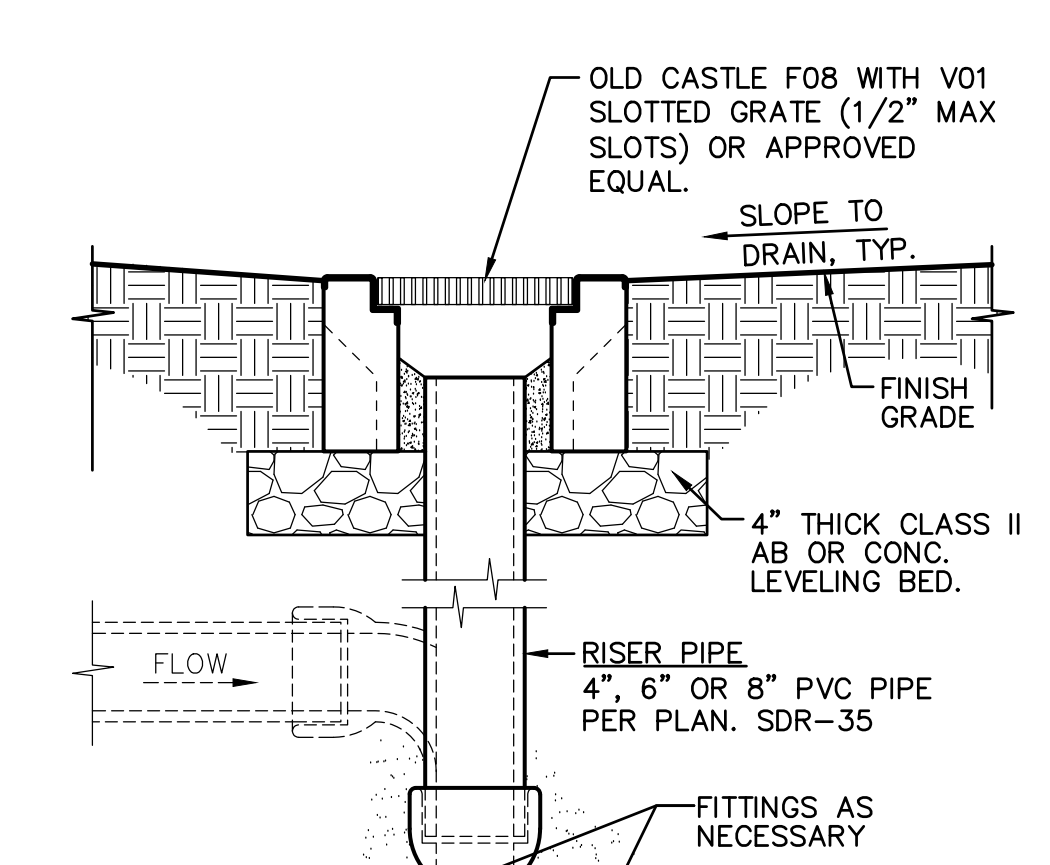
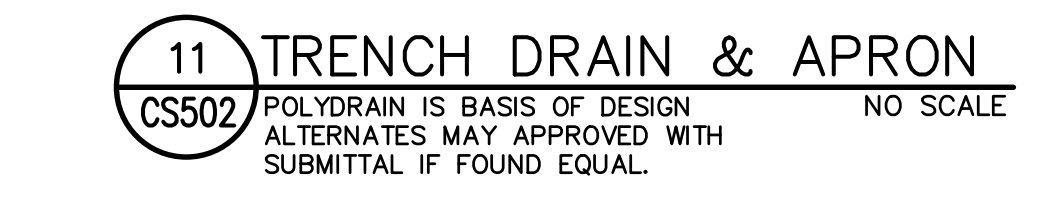
- NOTES:**
- RISER SECTIONS, CONES, AND ADJUSTING RING SHALL CONFORM TO ASTM DESIGNATION C-478.
  - FRAME SHALL BE SECURED TO RISER OR FLAT SLAB TOP WITH CEMENT MORTAR.
  - CONCRETE BASE MAY BE CAST-IN-PLACE AND POURED AGAINST UNDISTURBED MATERIAL, 3000. PSI MIN.
  - CONCRETE BASE MAY BE PRE-CAST CONCRETE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



- NOTES:**
- RISER SECTIONS, CONES, AND ADJUSTING RING SHALL CONFORM TO ASTM DESIGNATION C-478.
  - FRAME SHALL BE SECURED TO RISER OR FLAT SLAB TOP WITH CEMENT MORTAR.
  - 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.
  - ALL JOINTS SHALL BE SEALED WITH GROUT AND INSIDE OF MANHOLE SHALL BE GROUTED SMOOTH.
  - FLAT SLAB SHALL BE USED WHEN DEPTH DOES NOT PERMIT USE OF TAPER UNIT.
  - 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.



- GENERAL NOTES:**
- GRATE SHALL BE CAST IRON, TRAFFIC RATED (WHERE SPECIFIED), HEELPROOF, MULTI-DIRECTIONALLY ADA ACCESSIBLE GRATE WITH MANUFACTURER'S OR PRE-INSTALLATION APPLIED RUST INHIBITIVE BLACK COATING. NON-TRAFFIC MAINTENANCE AREAS MAY BE GALVANIZED STEEL, SEE BELOW.  
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  - CONTRACTOR SHALL FURNISH AND INSTALL A MODEL 810A LOCKING DEVICE, OR APPROVED EQUAL, FOR ALL TRENCH DRAIN GRATES.
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  - ALL MITERED JOINTS SHALL BE SEALED WITH POLYDRAIN "POLYSEAL" CAULKING OR APPROVED EQUAL.



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CONSULTANT

**WC**

WARREN CONSULTING ENGINEERS, INC.  
 1117 WINDFIELD WAY, SUITE 110  
 EL CORRALO HILLS, CA 95710 (916) 985-1870

REGISTERED PROFESSIONAL ENGINEER  
 ANTHONY J. TASSANO  
 No. C74896  
 State of California  
 102023

PROJECT  
**LUTHER BURBANK HIGH SCHOOL  
 ATHLETIC FIELDS RENOVATION**

3500 FLORIN ROAD  
 SACRAMENTO, CA 95823

CLIENT  
 SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

5735 47TH AVENUE, SACRAMENTO, CA 95824

MARK	DATE	DESCRIPTION
-	8.10.2023	DSA SUBMITTAL
-	12/01/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

LIONAKIS PROJECT NO.	023041
DSA APPLICATION NO.	02-121593
CLIENT PROJECT NO.	####
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TITLE  
**SITE DETAILS**

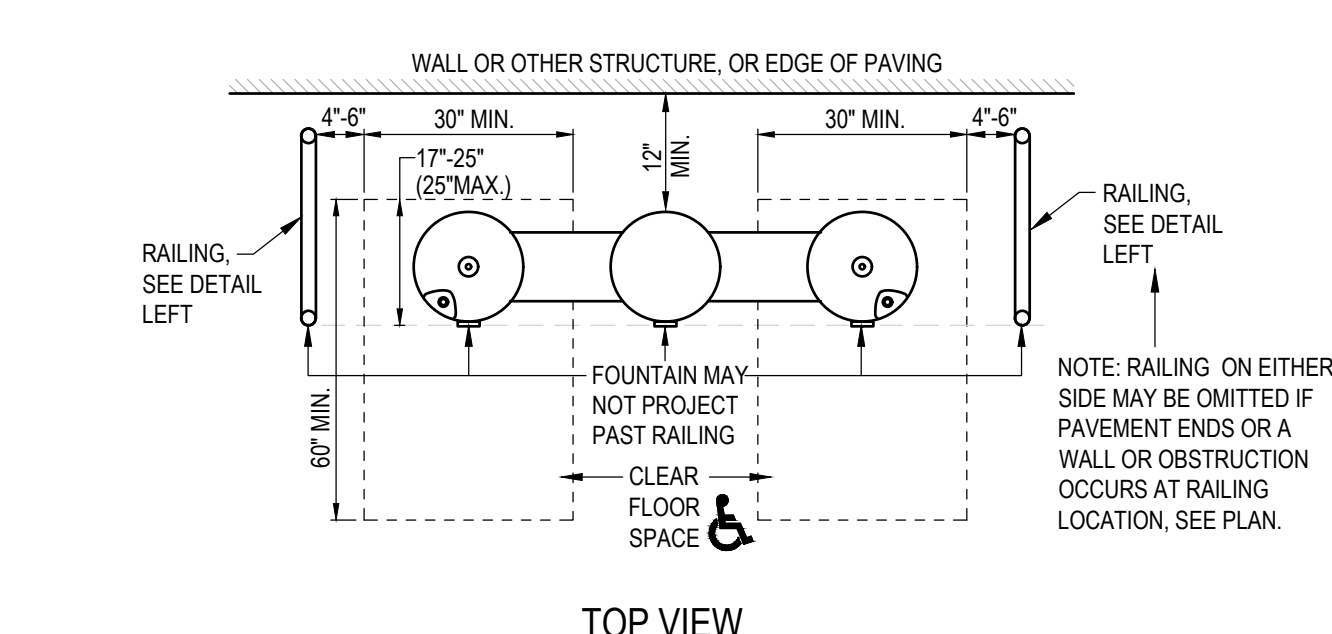
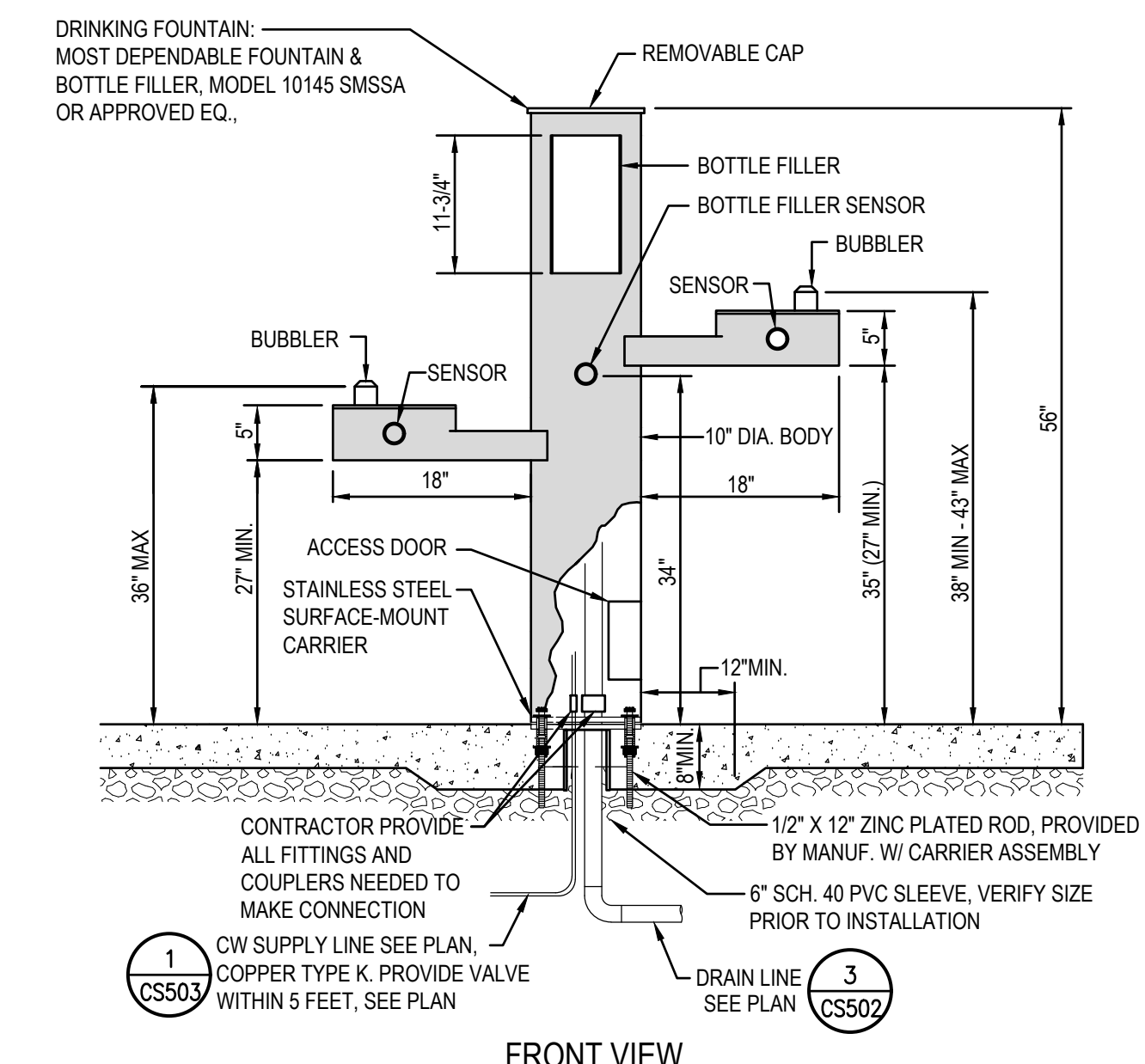
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**CS502**

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B

PLOT DATE: 11/27/2023 11:33:23 AM FILE: I:\23-106\CIVIL\DWG\23-106-114-CS501-CS504.DWG



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

**4** CS503 HI-LO WITH BOTTLE FILLER NO SCALE

- 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

**HORIZONTAL THRUST BLOCKS**  
REQUIRED BEARING AREA, IN SF.

INSTALLATION	FITTING TYPE	PIPE SIZES				
		4"	6"	8"	10"	12"
90° ELBOW	90° ELBOW	5	11	19	28	39
	22.5° ELL	1.5	3	5.1	7.6	11
	11.25° ELL	1	1.5	2.5	3.8	5.4
TEE	TEE	5	11	19	28	39
	TEE W/ CAP	5	11	19	28	39
DEAD END (STUB)	DEAD END (STUB)	4	8	13	20	28
REDUCER	REDUCER	SEE BELOW				
VALVES	VALVES	SEE VALVE DETAIL(S)				
HYDRANT	HYDRANT	SEE HYDRANT DETAIL(S)				

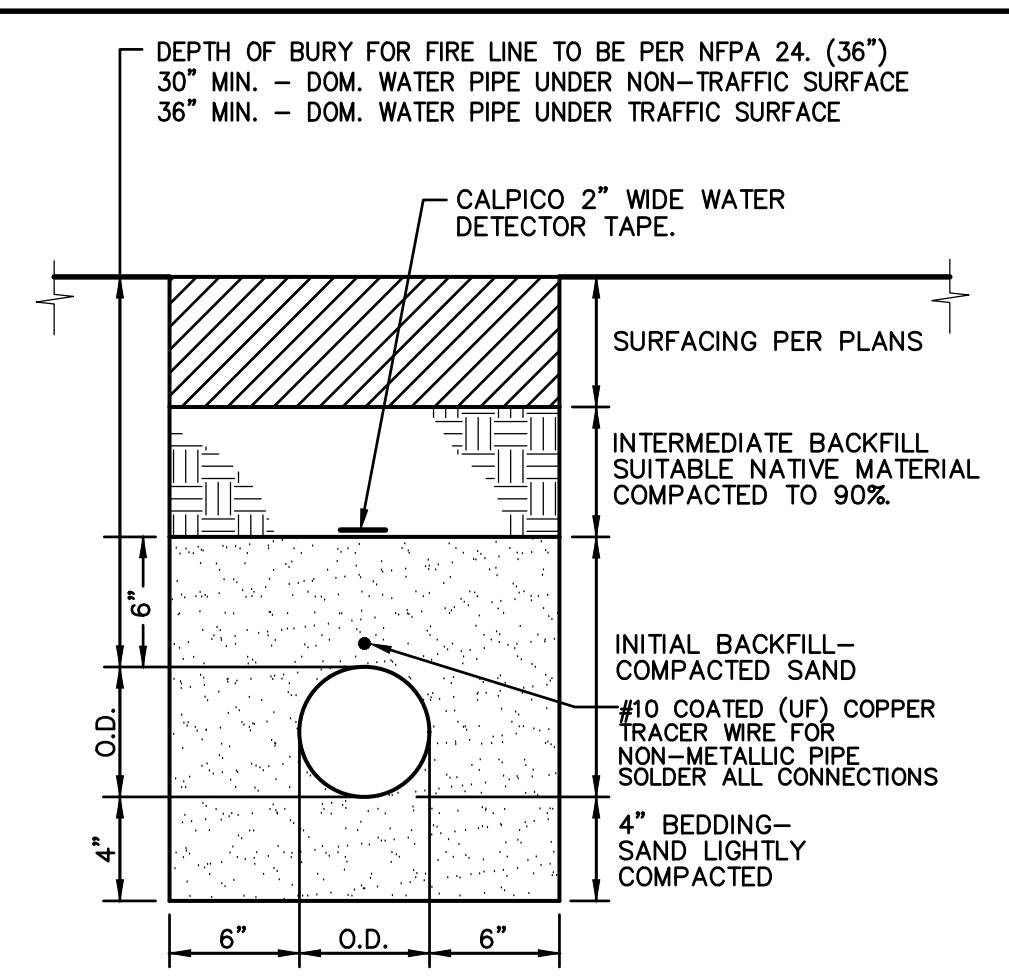
**VERTICAL THRUST BLOCKS**  
REQUIRED CONCRETE VOLUME, IN CY.

INSTALLATION	FITTING TYPE	PIPE SIZES				
		4"	6"	8"	10"	12"
90° ELBOW	90° ELBOW	1.0	2.1	3.8	5.2	8.4
	45° ELL	0.7	1.5	2.7	4.2	6.0
	22.5° ELL	0.4	0.8	1.5	2.3	3.3
11.25° ELL	11.25° ELL	0.2	0.5	0.8	1.2	1.6
	REDUCER	0.7	1.5	2.7	4.2	6.0

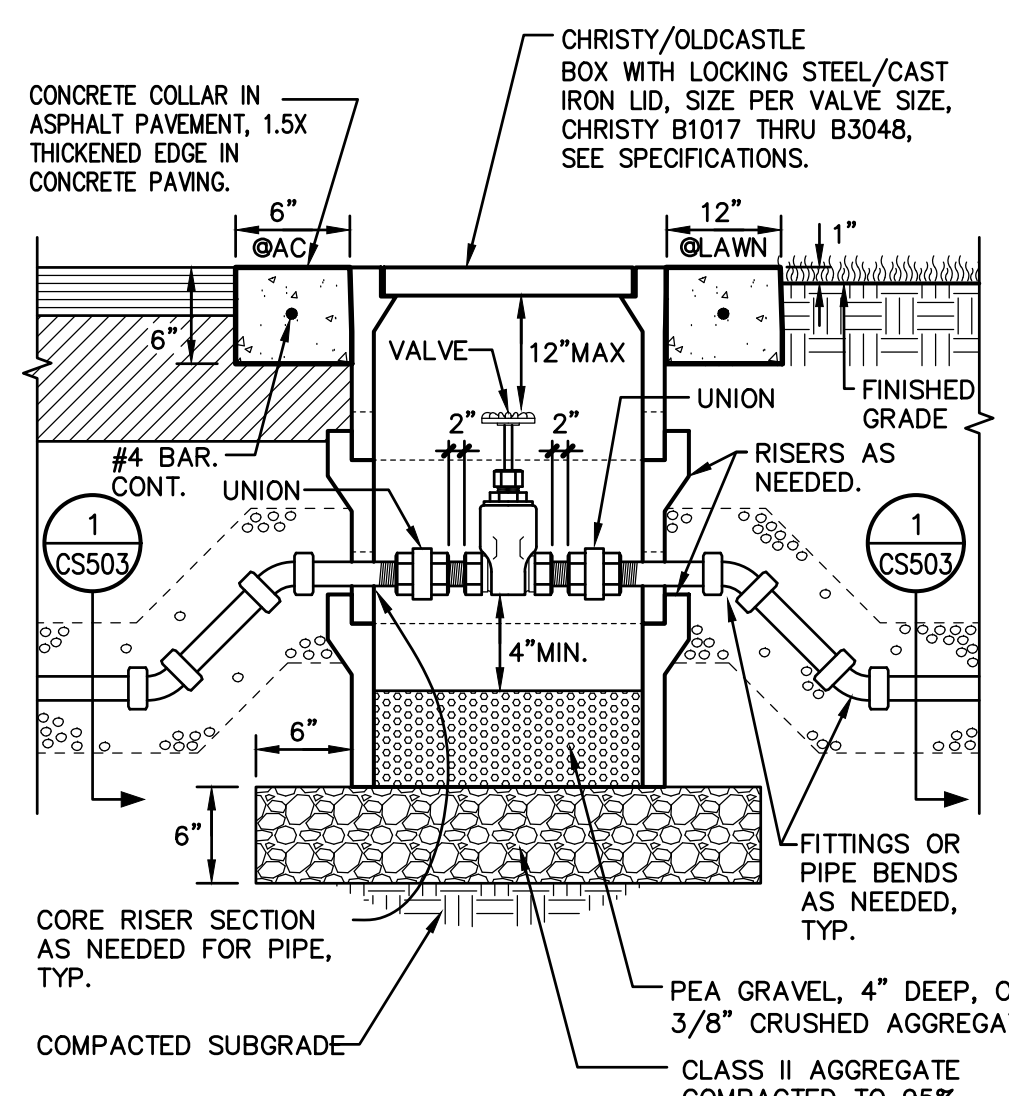
W/ MIN. 2 #5 REBAR TIES, TYP.

- NOTES:  
1. THRUST BLOCKS ARE TO BE CONSTRUCTED OF 2500 PSI CONCRETE MIN.  
2. AREAS IN TABLE HAVE BEEN DERIVED USING A WATER PRESSURE OF 200 POUNDS PER SQUARE INCH (13.8 BARS) AND SOIL RESISTANCE OF 1500 POUNDS PER SQUARE FOOT.  
3. BLOCKING TO BE POURED AGAINST UNDISTURBED SOIL.  
4. THRUST BLOCKS ARE TO BE FREE, SEPARATE AND INDEPENDENT OF ADJACENT OR NEARBY THRUST BLOCKS.

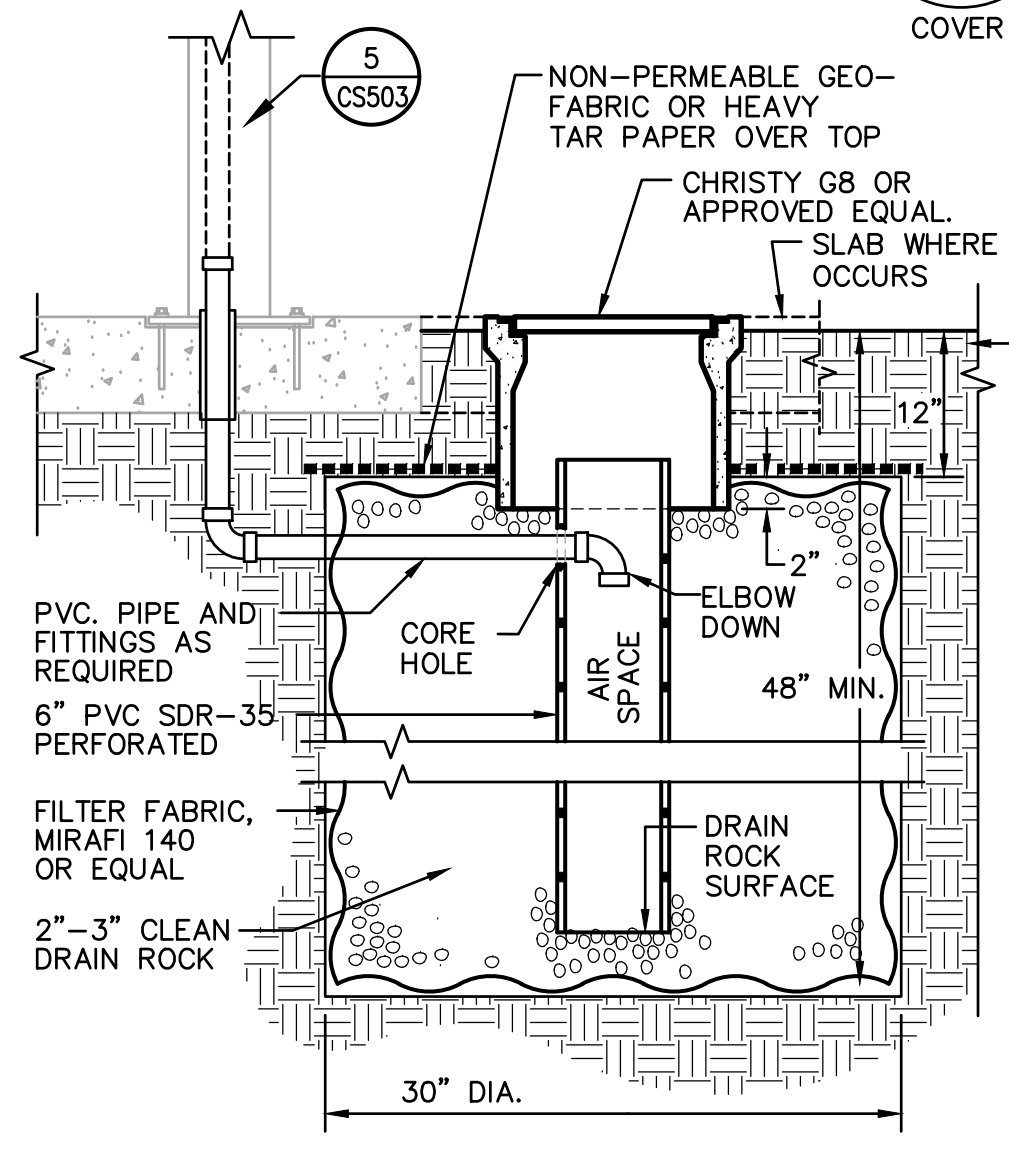
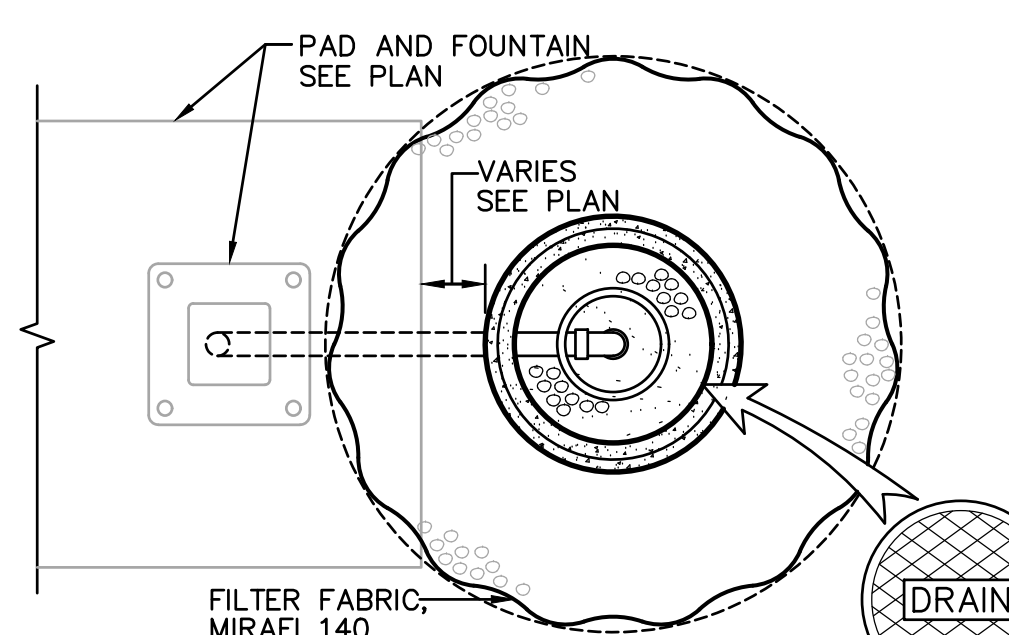
**5** CS503 THRUST BLOCKS NO SCALE



**1** CS503 WATER TRENCH NO SCALE



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



**3** CS503 FOUNTAIN DRYWELL NO SCALE

**LIONAKIS**

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EL CERRILLO HILLS, CA 95702 | (916) 985-1870

SEAL

PROJECT  
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ISSUED

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MANAGEMENT  
LIONAKIS PROJECT NO: 023041  
DSA APPLICATION NO: 02-121593  
CLIENT PROJECT NO: #####  
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TITLE  
**SITE DETAILS**

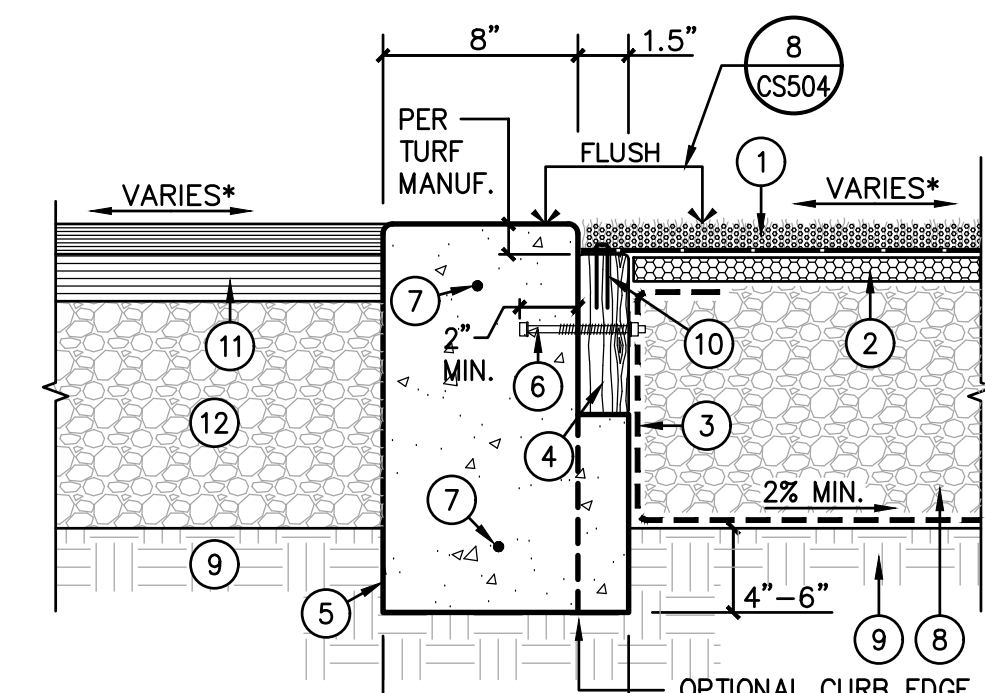
SHEET  
**CS503**

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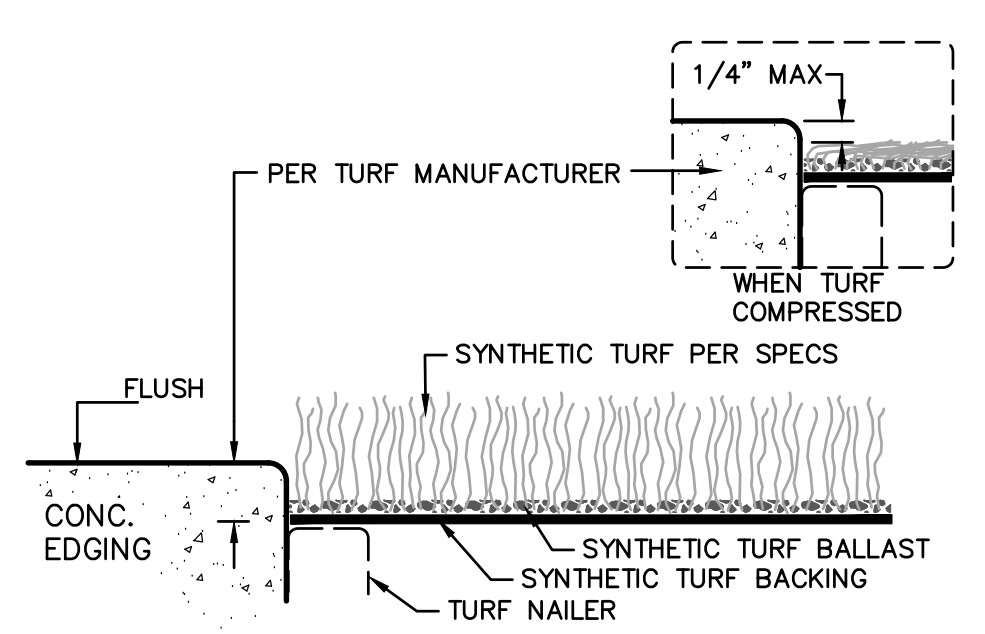
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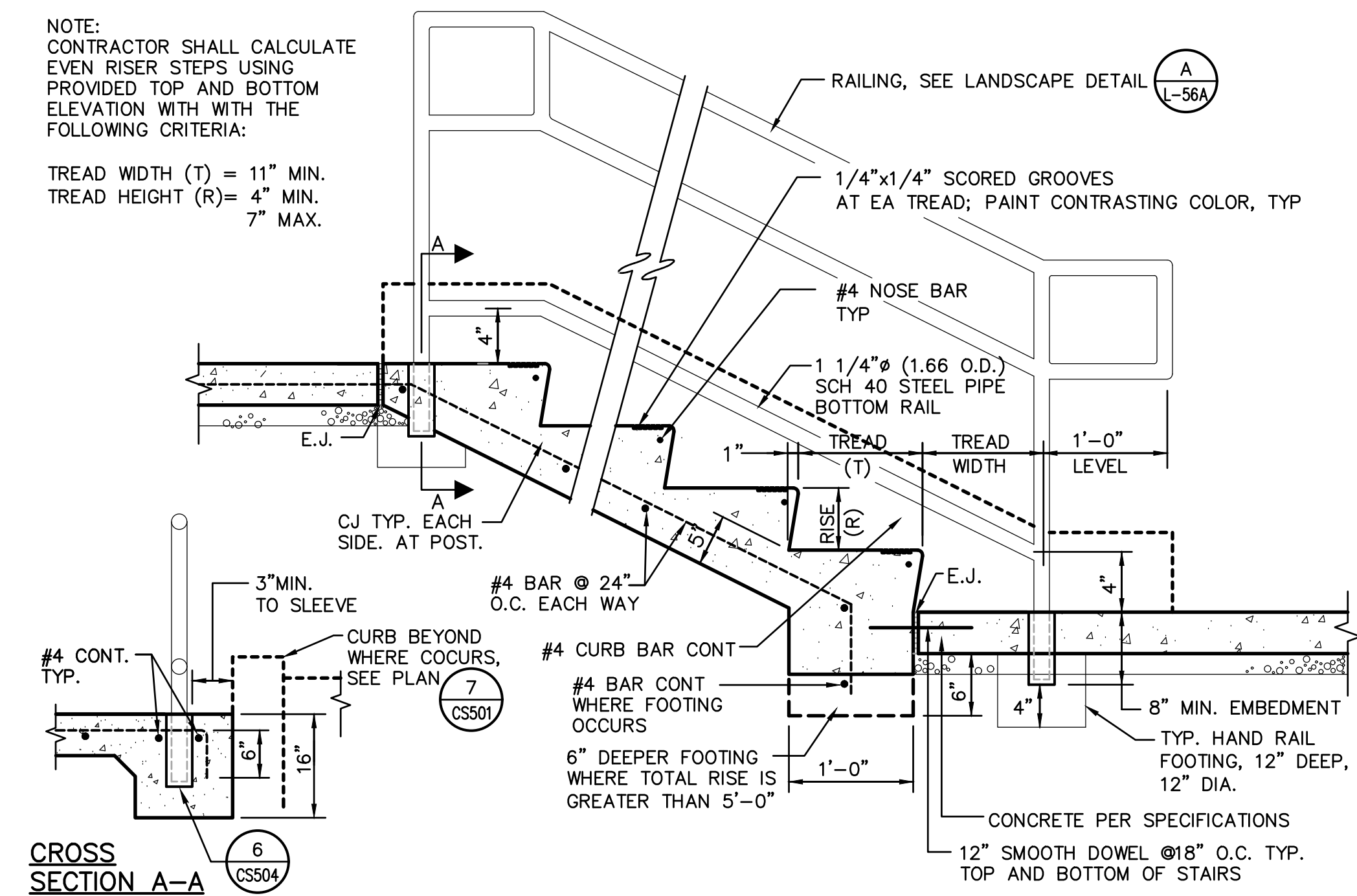


- NOTES:**
1. SYNTHETIC TURF & BALLAST/INFILL PER SPEC.
  2. SYNTHETIC UNDERLAYMENT PAD (SHOCK PAD)
  3. GEO-FABRIC, MIRAFI 140 N OR EQUAL.
  4. 2x4 OR 2x6 NAILER, SYNTHETIC, PER SPECS.
  5. CONCRETE CURB, 3000 PSI MIN. (28 DAY), PER SPECS.
  6. 1/2"x5" ANCHOR BOLT W/ NYLON NUT AND WIDE FLANGE WASHER @ 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. ASPHALT PAVING, PER SPECS.
  12. AGGREGATE BASE, PER SPECS.

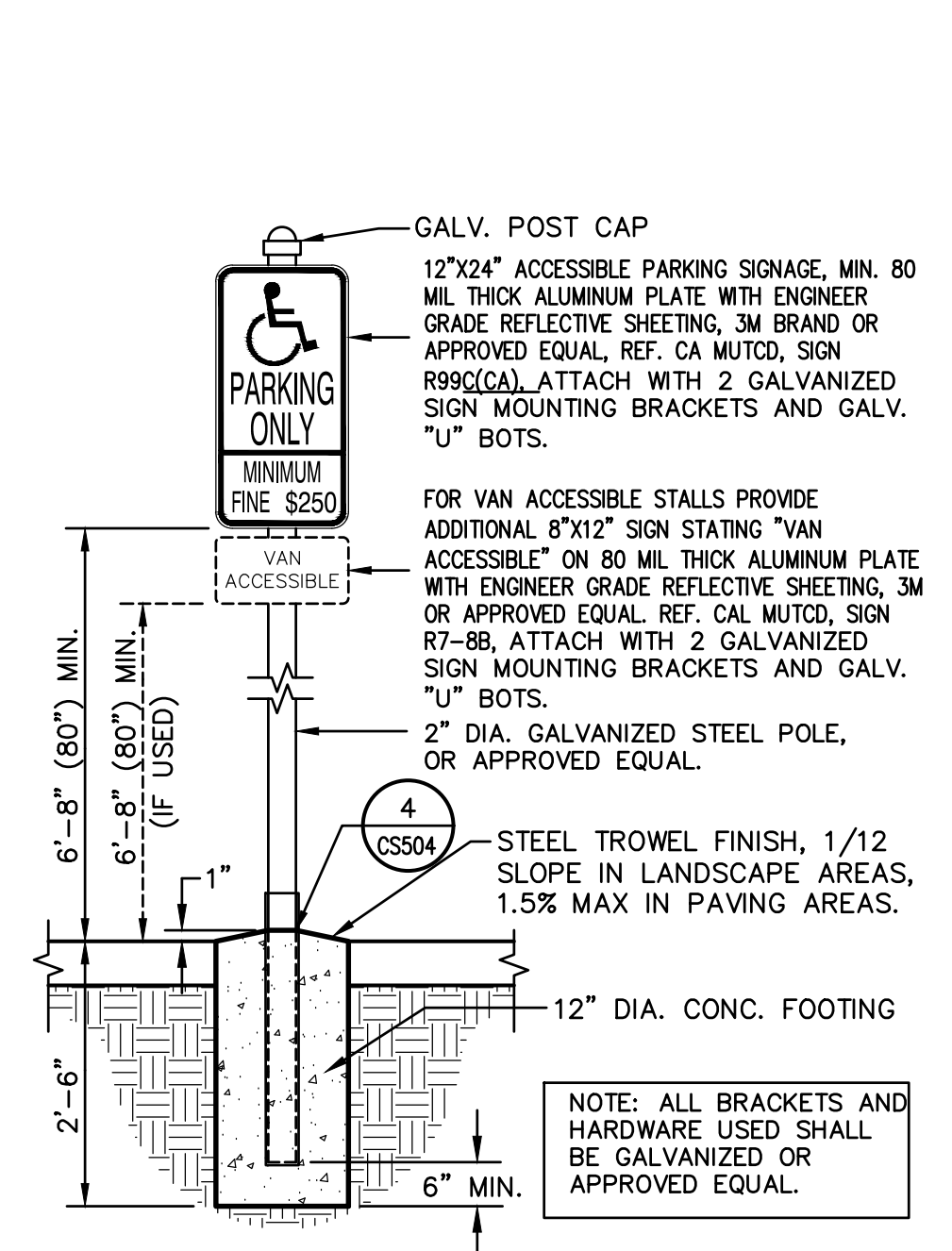
**7 SYNTHETIC TURF CURB/NAILER**  
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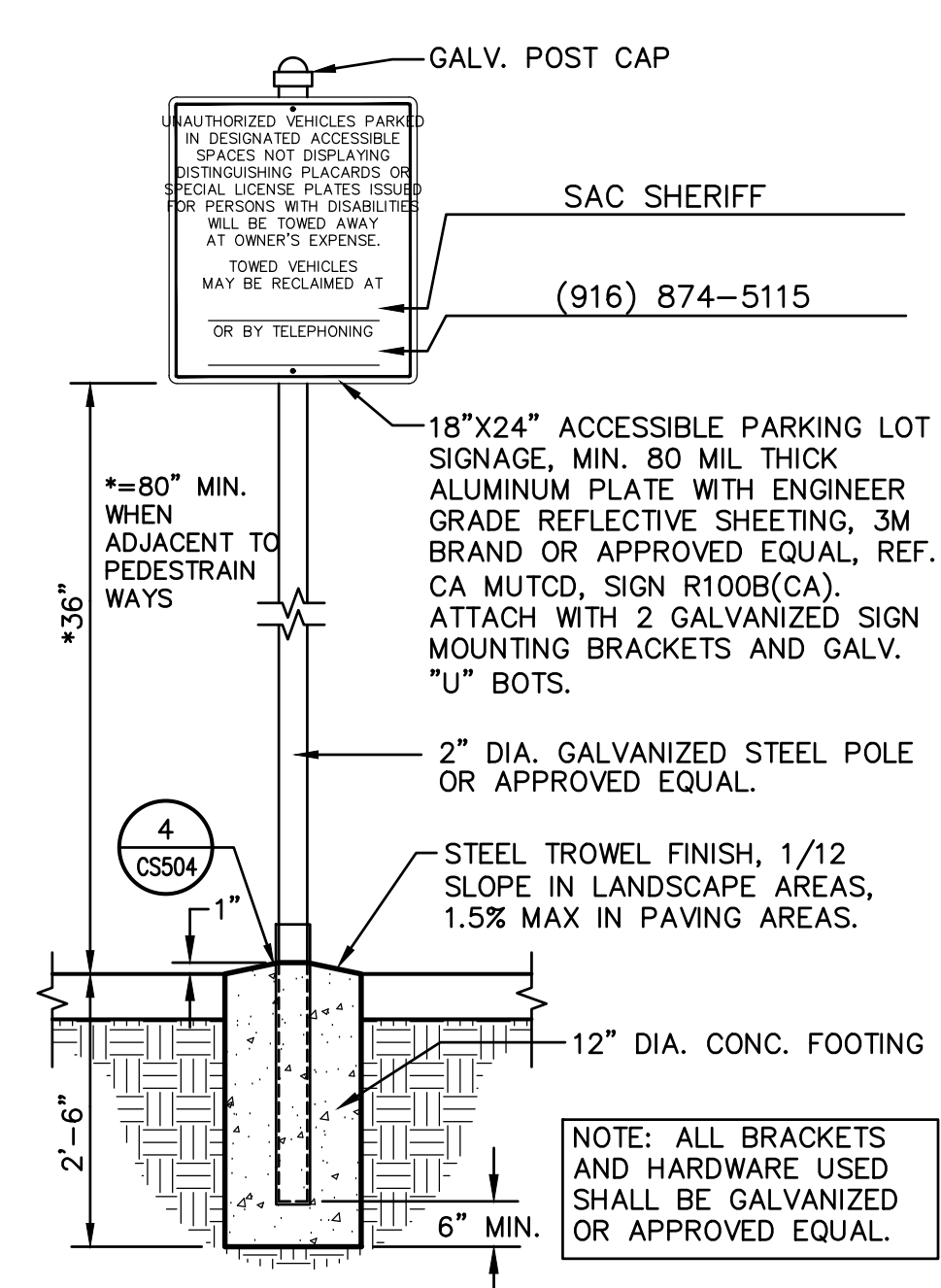
**8 SYNTHETIC TURF TRANSITION**  
CS504 NON-INFILLED NO SCALE



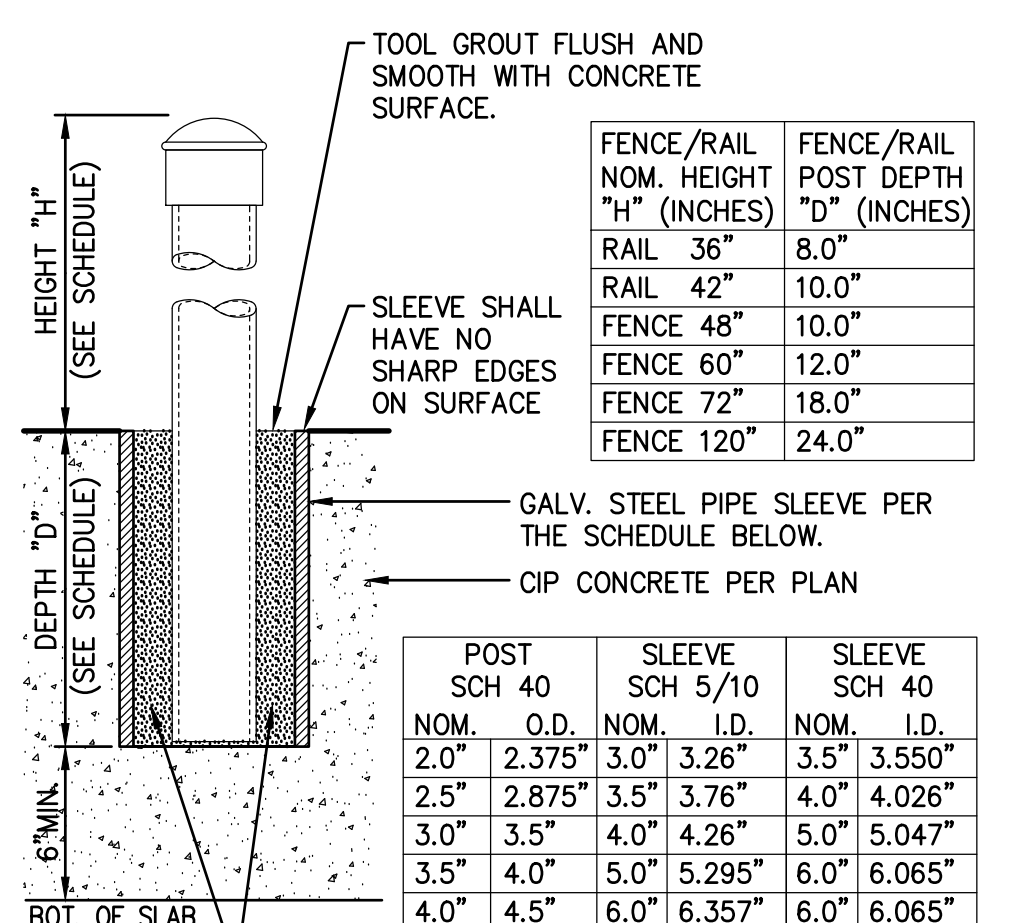
**1 CONCRETE STAIR AND RAILINGS**  
CS504 NO SCALE



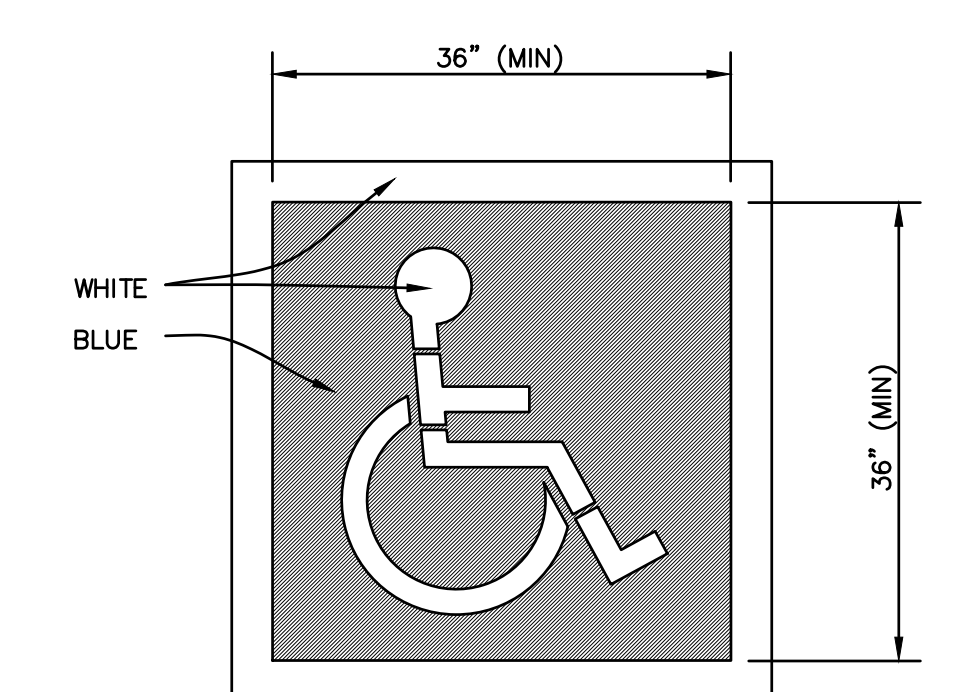
**5 PARKING SIGNAGE**  
CS504 ACCESSIBLE STALLS (CALIFORNIA ONLY) NO SCALE



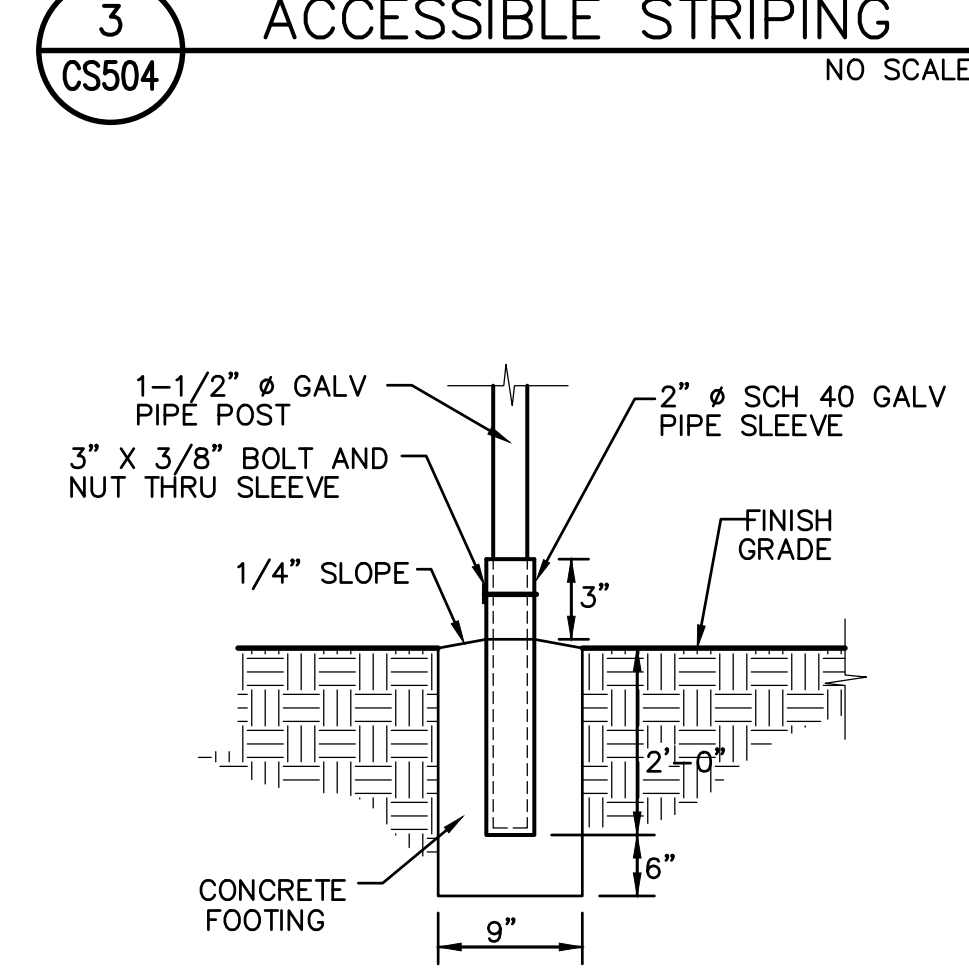
**2 PARKING AREA SIGN**  
CS504 (CALIFORNIA ONLY) NO SCALE



**6 POST SLEEVE DETAIL**  
CS504 NO SCALE



**3 ACCESSIBLE STRIPING**  
CS504 NO SCALE



**4 SIGN SLEEVE**  
CS504 NO SCALE

# LIONAKIS

2025 Nineteenth Street  
Sacramento, CA 95818  
P 916.558.1900  
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**WC**  
WARREN CONSULTING ENGINEERS, INC.  
1117 WINDFIELD WAY, SUITE 110  
EL CORRALO HILLS, CA 95752 | (916) 985-1870

SEAL

## PROJECT LUTHER BURBANK HIGH SCHOOL ATHLETIC FIELDS RENOVATION

3500 FLORIN ROAD  
SACRAMENTO, CA 95823

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

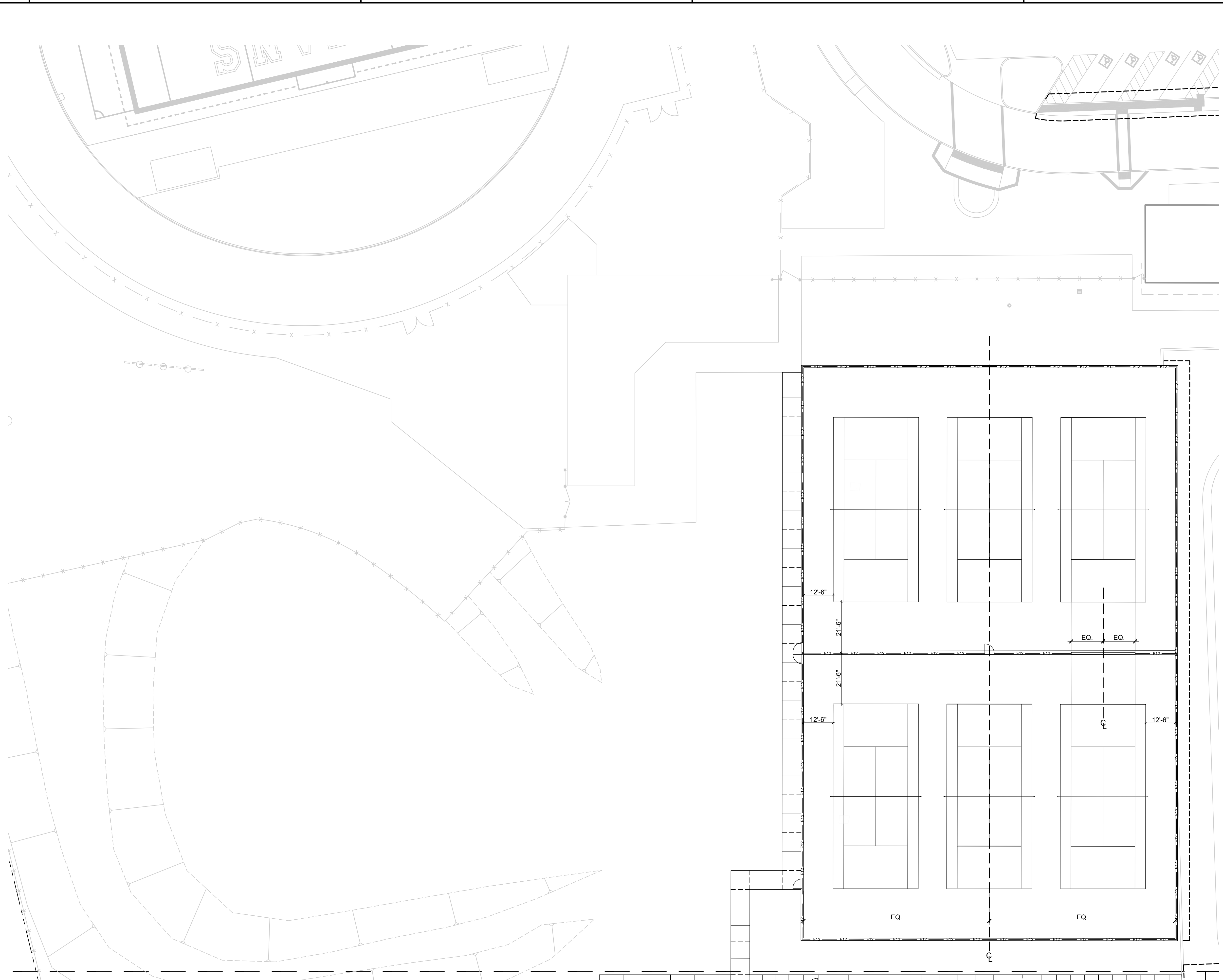
MARK	DATE	DESCRIPTION
-	8.10.2023	DSA SUBMITTAL
-	12/01/2023	BID SET - NOT DSA APPROVED

MANAGEMENT	
LIONAKIS PROJECT NO:	023041
DSA APPLICATION NO:	02-121593
CLIENT PROJECT NO:	####
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## TITLE SITE DETAILS

SHEET  
**CS504**

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**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
CL	CENTERLINE
CLR	CLEAR
DIA	DIAMETER
ECR	END OF CURVE RETURN
R	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

MATCHLINE - SEE SHEET LS10B

**LIONAKIS**

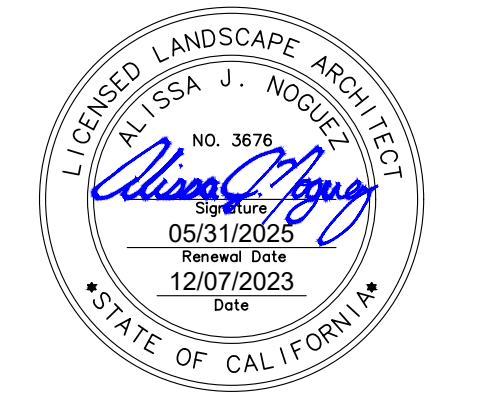
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 www.lionakis.com

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 www.anla-associates.com

SEAL



PROJECT  
**LUTHER BURBANK HIGH SCHOOL  
 ATHLETIC FIELDS REPLACEMENT**

3500 FLORIN ROAD  
 SACRAMENTO, CA 95823

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

ISSUED

MARK	DATE	DESCRIPTION
-	08.10.2023	DSA INITIAL SUBMITTAL
-	12.07.2023	BID SET - NOT DSA APPROVED

MANAGEMENT

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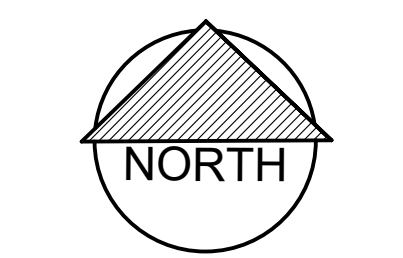
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TITLE  
**LAYOUT PLAN**

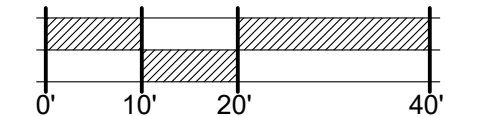
SHEET

**LS10A**

ANLA PROJECT NO.



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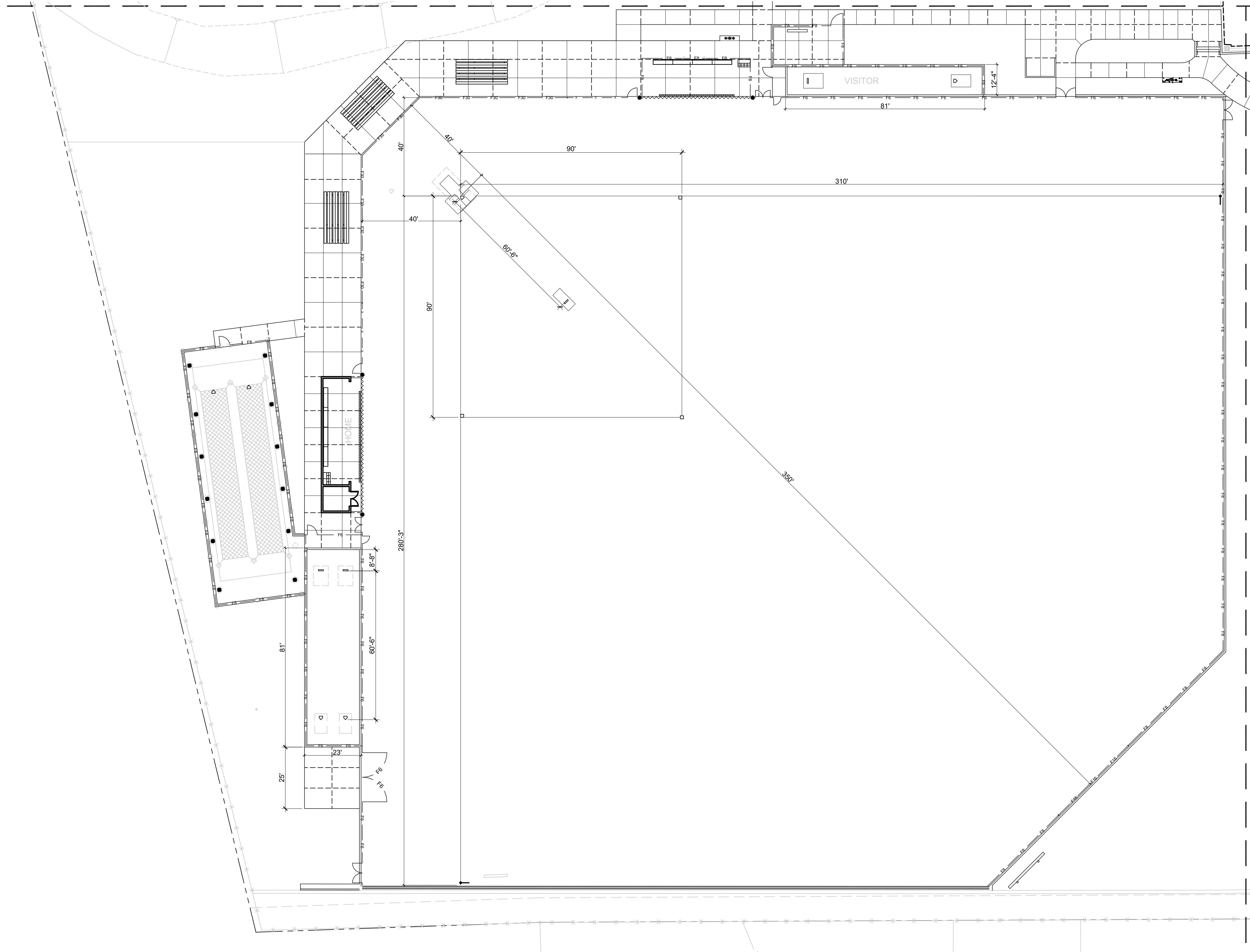
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MATCHLINE - SEE SHEET LS10A

SEE SHEET LS10A FOR LAYOUT NOTES  
LEGEND



MATCHLINE - SEE SHEET LS10C

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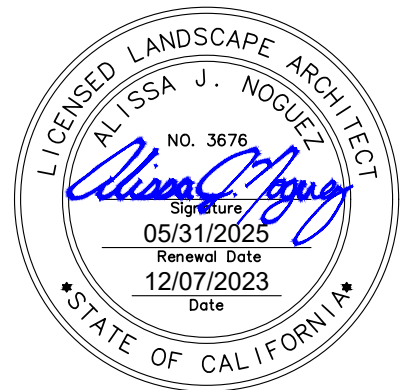
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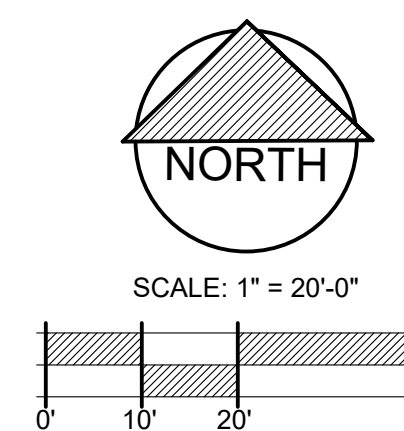
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AGENCY

TITLE  
LAYOUT PLAN

SHEET  
LS10B

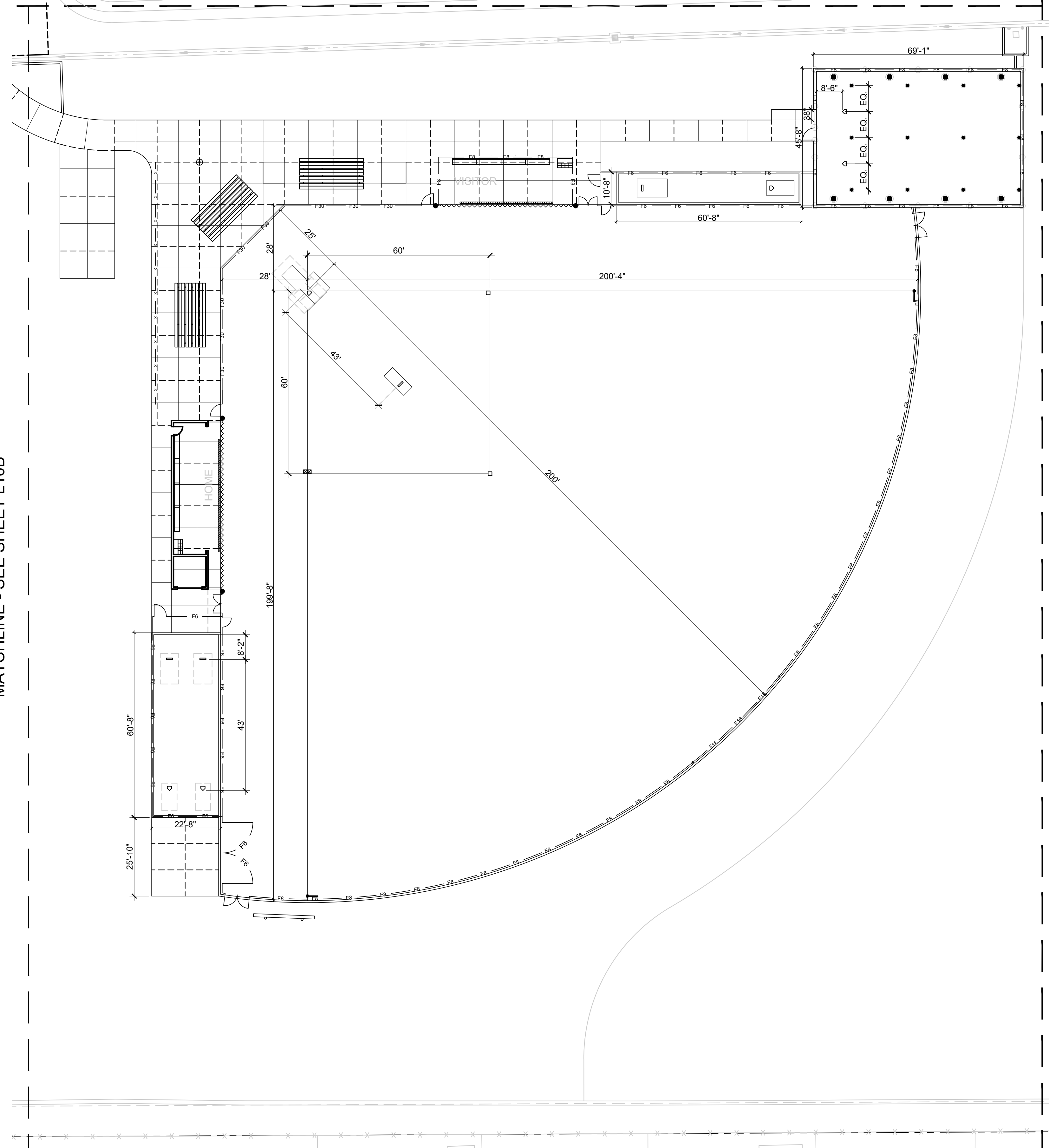
ANLA PROJECT NO. 2318



MATCHLINE - SEE SHEET LS10A

SEE SHEET LS10A FOR LAYOUT NOTES  
LEGEND

MATCHLINE - SEE SHEET L10B



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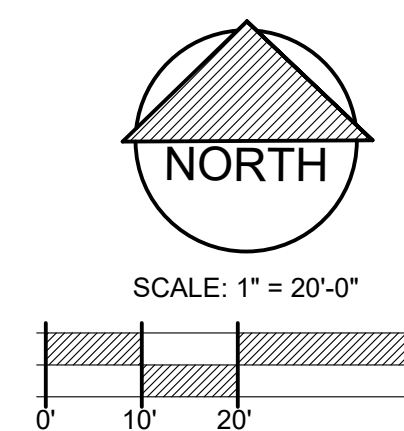
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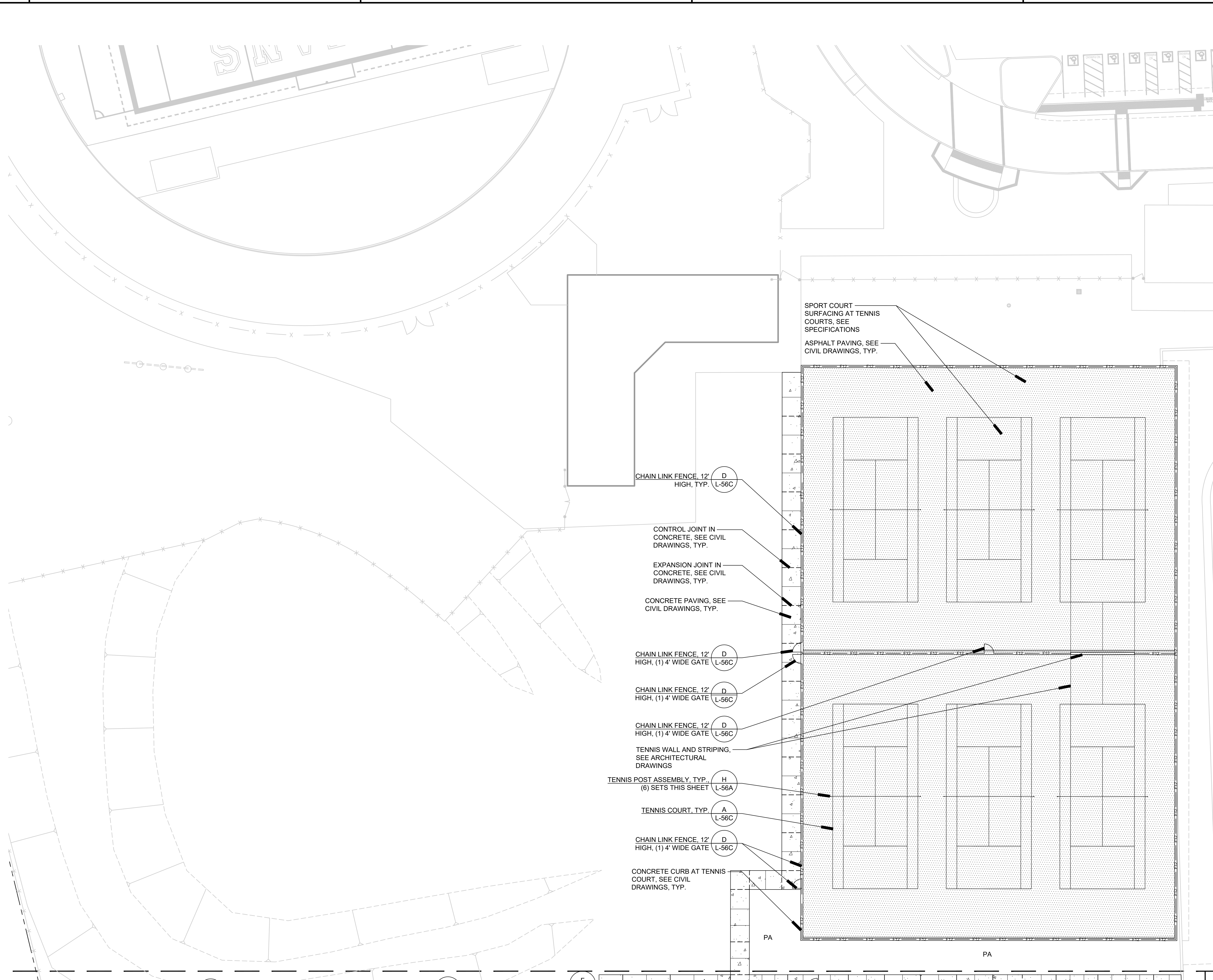
TITLE  
LAYOUT PLAN

SHEET  
LS10C

ANLA PROJECT NO: \_\_\_\_\_ 2318



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**NOTE:**  
 EXISTING TENNIS COURTS CANNOT BE DEMOLISHED UNTIL AFTER MAY 1, 2024, OR UNTIL NEW ONES ARE READY.

**MATERIAL AND DETAIL REFERENCE NOTES**

- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- CONTRACTOR SHALL ADJUST EXISTING UTILITY BOXES TO BE FLUSH WITH PROPOSED GRADES.
- 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
- REFER TO CONSTRUCTION DETAILS ON SHEETS L-56A THROUGH L-56E.

**MATERIALS & DETAIL REFERENCE LEGEND**

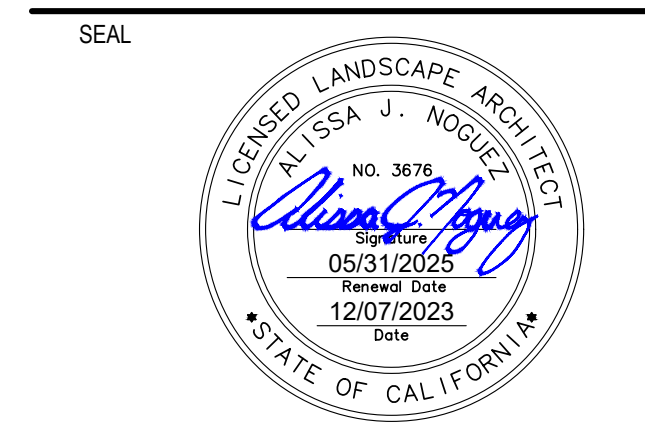
SYMBOL	DESCRIPTION	DETAIL
	CONCRETE PAVING. SEE CIVIL DRAWINGS, TYP.	-
	AC PAVING. SEE CIVIL DRAWINGS, TYP. SPORT COURT SURFACING. FIELD OF PLAY COLOR TO BE SELECTED BY OWNER'S REPRESENTATIVE AND A CONTRASTING OUTER COURT COLOR SHALL BE SELECTED BY OWNER'S REPRESENTATIVE. GAMES LINES TO BE WHITE.	-
	HANDRAIL AT STEPS, IN STEPS	A, L-56A
	CHAIN LINK FENCE, 6' HIGH	B, L-56C
	CHAIN LINK FENCE, 8' HIGH	F, L-56C
	CHAIN LINK FENCE, 12' HIGH	D, L-56C
	CHAIN LINK FENCE, 16' HIGH	A, L-56D
	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
	GUARD RAIL SYSTEM	F, L-56F
	BASES	A, L-56B
	1ST BASE AT SOFTBALL FIELD	A, L-56B
	PITCHER'S RUBBER	C, L-56B
	HOME PLATE	B, L-56B
	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
	PLANTING AREA. SEE PLANTING AND IRRIGATION DRAWINGS	-
	PLAYER'S BENCH	D, L-56A
	BLEACHERS	C, L-56E
	BAT STORAGE	E, L-56A

**LIONAKIS**

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**PROJECT**  
 LUTHER BURBANK HIGH SCHOOL  
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 5735 47TH AVENUE, SACRAMENTO, CA 95824

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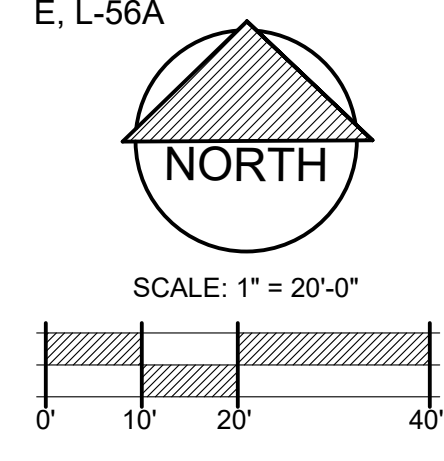
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**AGENCY**

**TITLE**  
 MATERIALS AND  
 DETAIL  
 REFERENCE  
 PLAN

**SHEET**  
 LS16A

ANLA PROJECT NO. 2318





MATCHLINE - SEE SHEET LS16A

SEE SHEET LS16A FOR MATERIAL AND  
DETAIL REFERENCE NOTES LEGEND

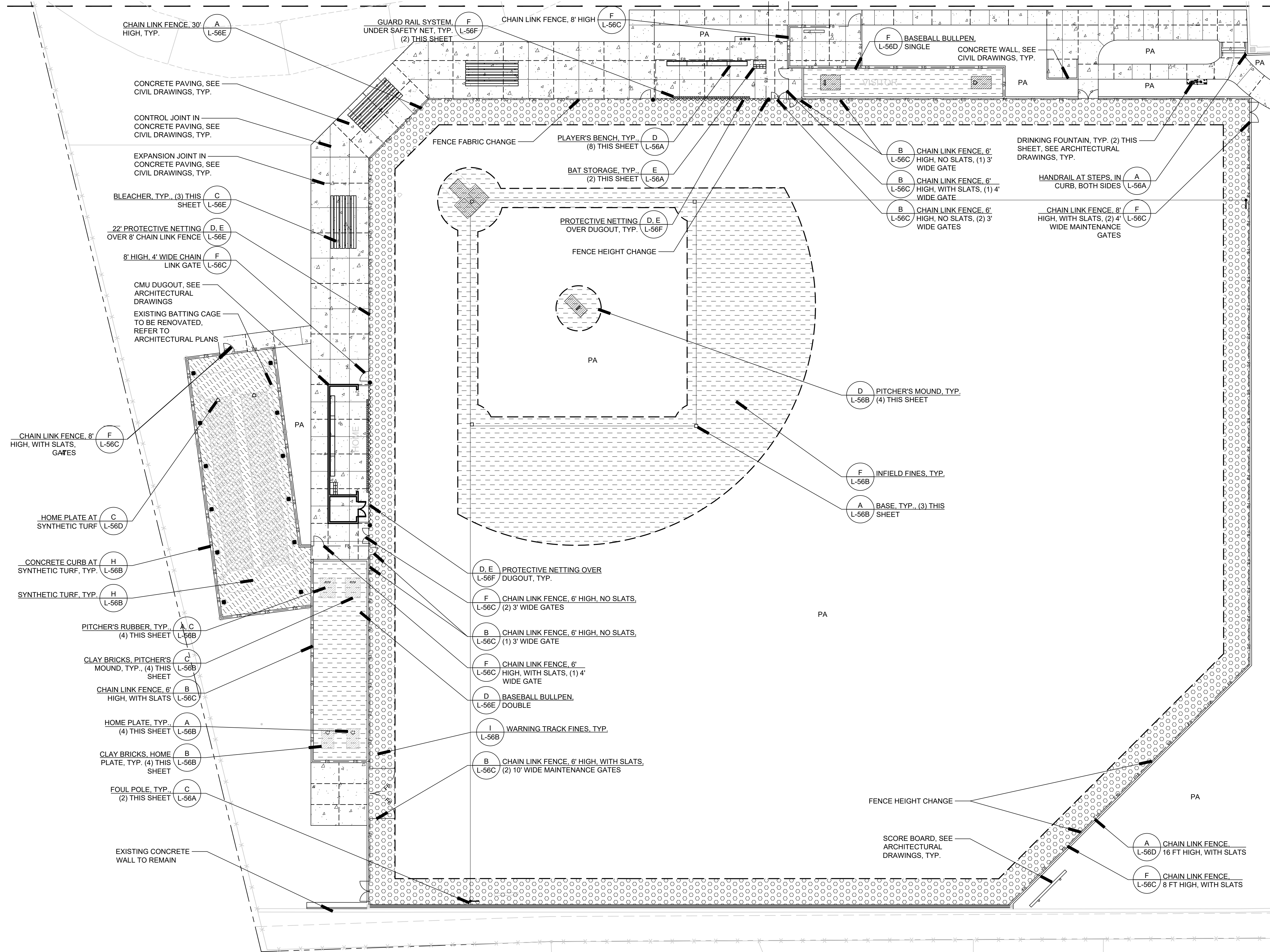
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MATCHLINE - SEE SHEET LS16C

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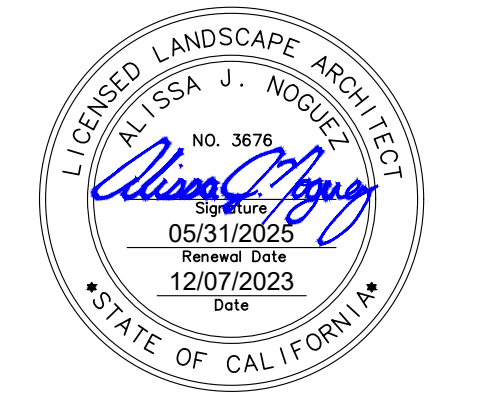
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MANAGEMENT

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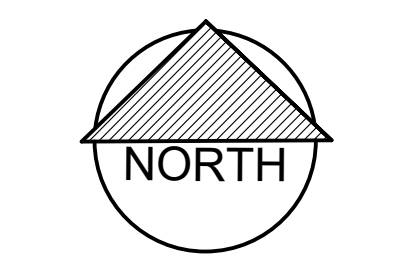
AGENCY

TITLE  
**MATERIALS AND  
DETAIL  
REFERENCE  
PLAN**

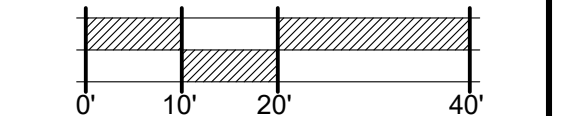
SHEET

**LS16B**

ANLA PROJECT NO. \_\_\_\_\_ 2318



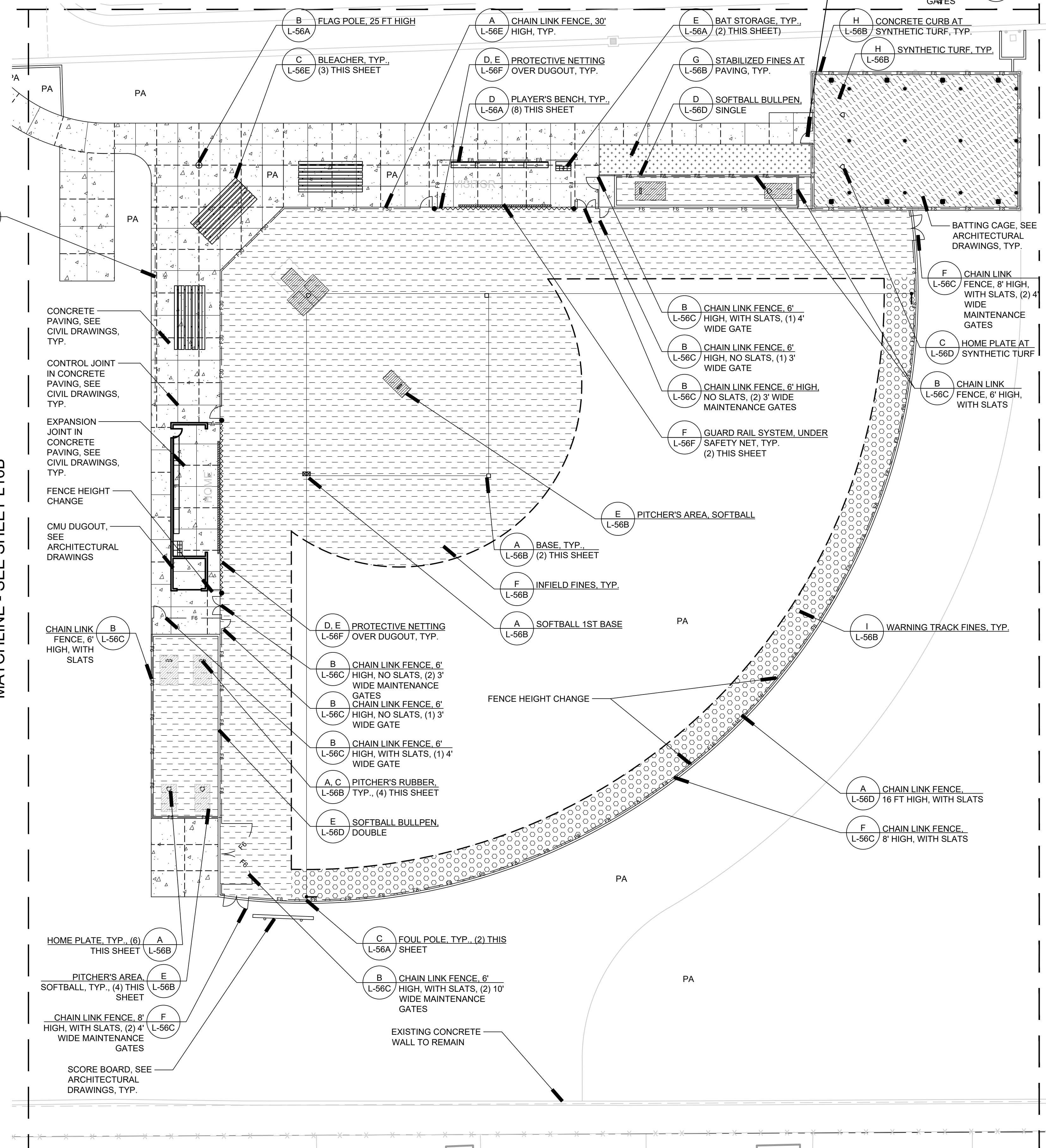
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MATCHLINE - SEE SHEET LS16A

SEE SHEET LS16A FOR MATERIAL AND  
DETAIL REFERENCE NOTES LEGEND

MATCHLINE - SEE SHEET L16B



# LIONAKIS

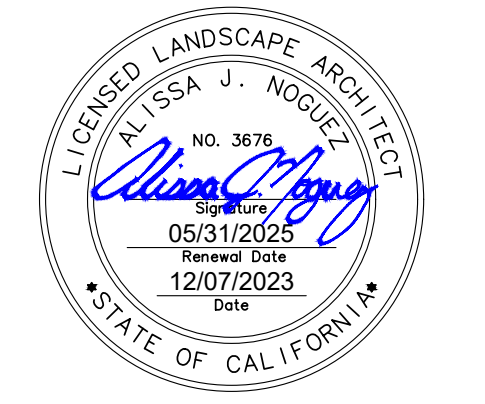
2025 Nineteenth Street  
Sacramento CA 95818  
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www.lionakis.com

CONSULTANT



1723 Hamilton Ave, Suite 101  
San Jose, CA 95125  
T. 408.292.2196  
www.anla-associates.com

SEAL



PROJECT  
LUTHER BURBANK HIGH SCHOOL  
ATHLETIC FIELDS REPLACEMENT

3500 FLORIN ROAD  
SACRAMENTO, CA 95823

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

ISSUED		
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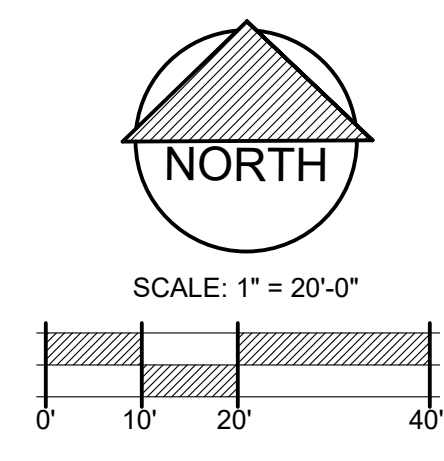
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AGENCY

TITLE  
**MATERIALS AND  
DETAIL  
REFERENCE  
PLAN**

SHEET  
**LS16C**

ANLA PROJECT NO. \_\_\_\_\_ 2318



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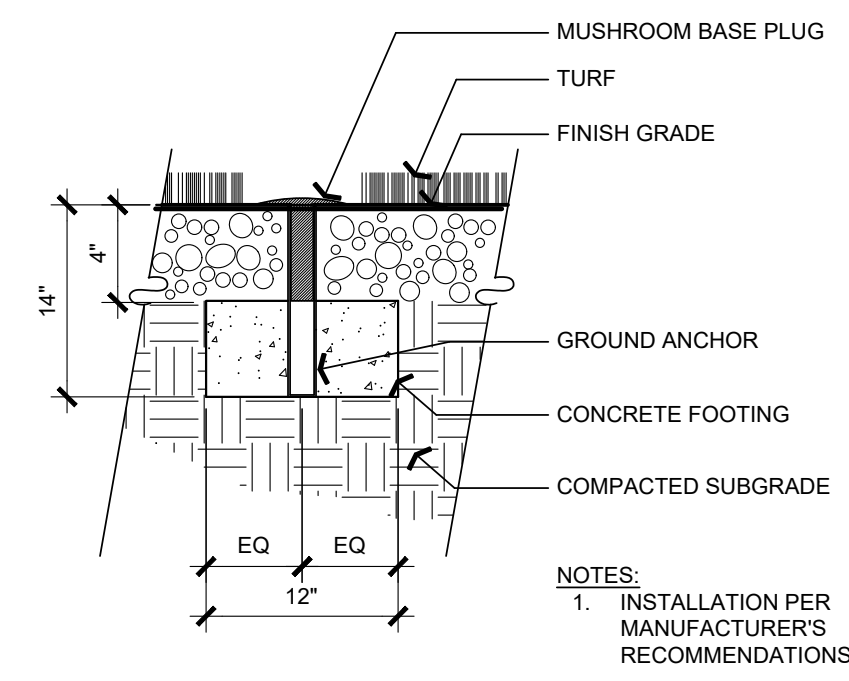
C

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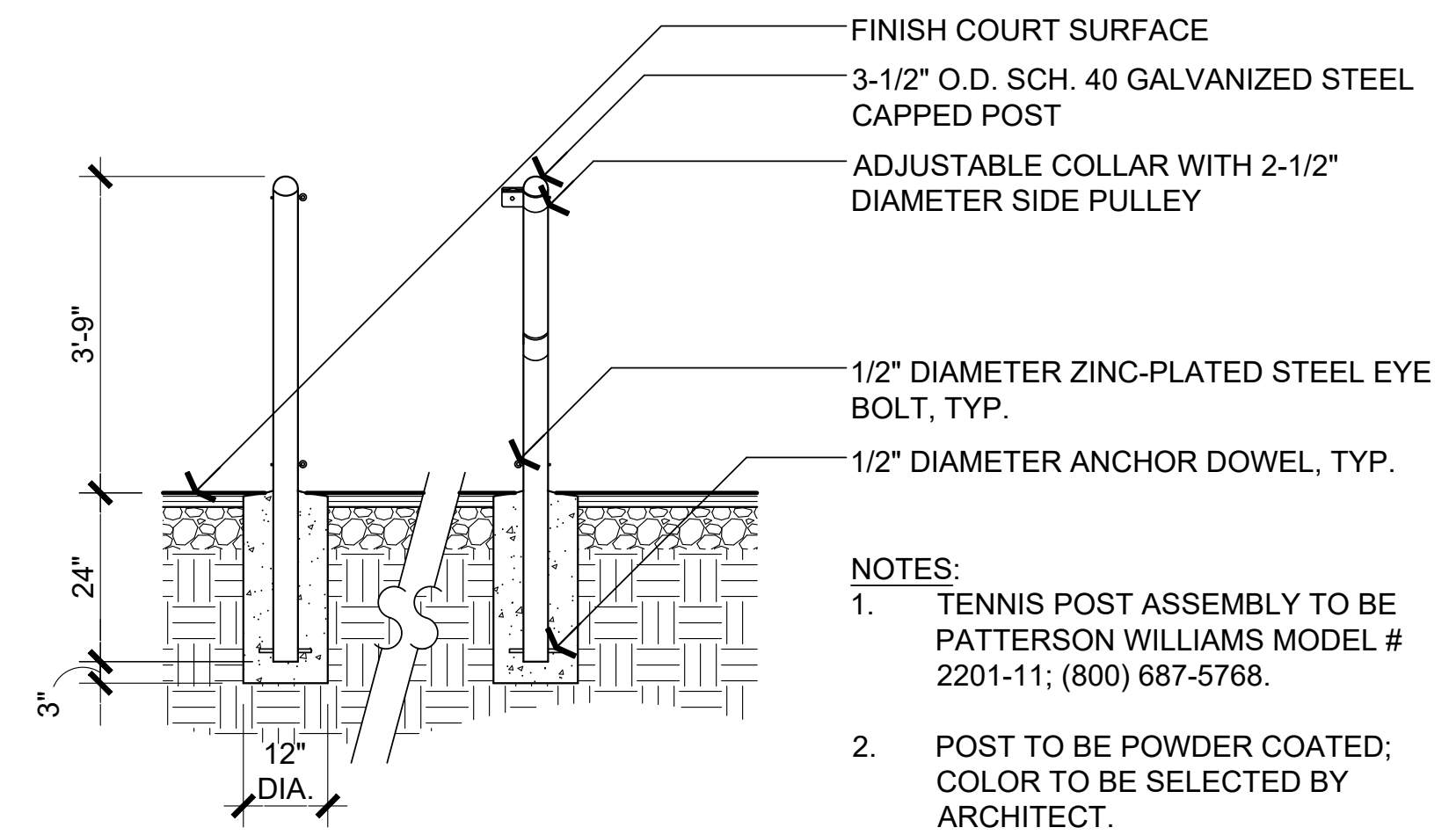
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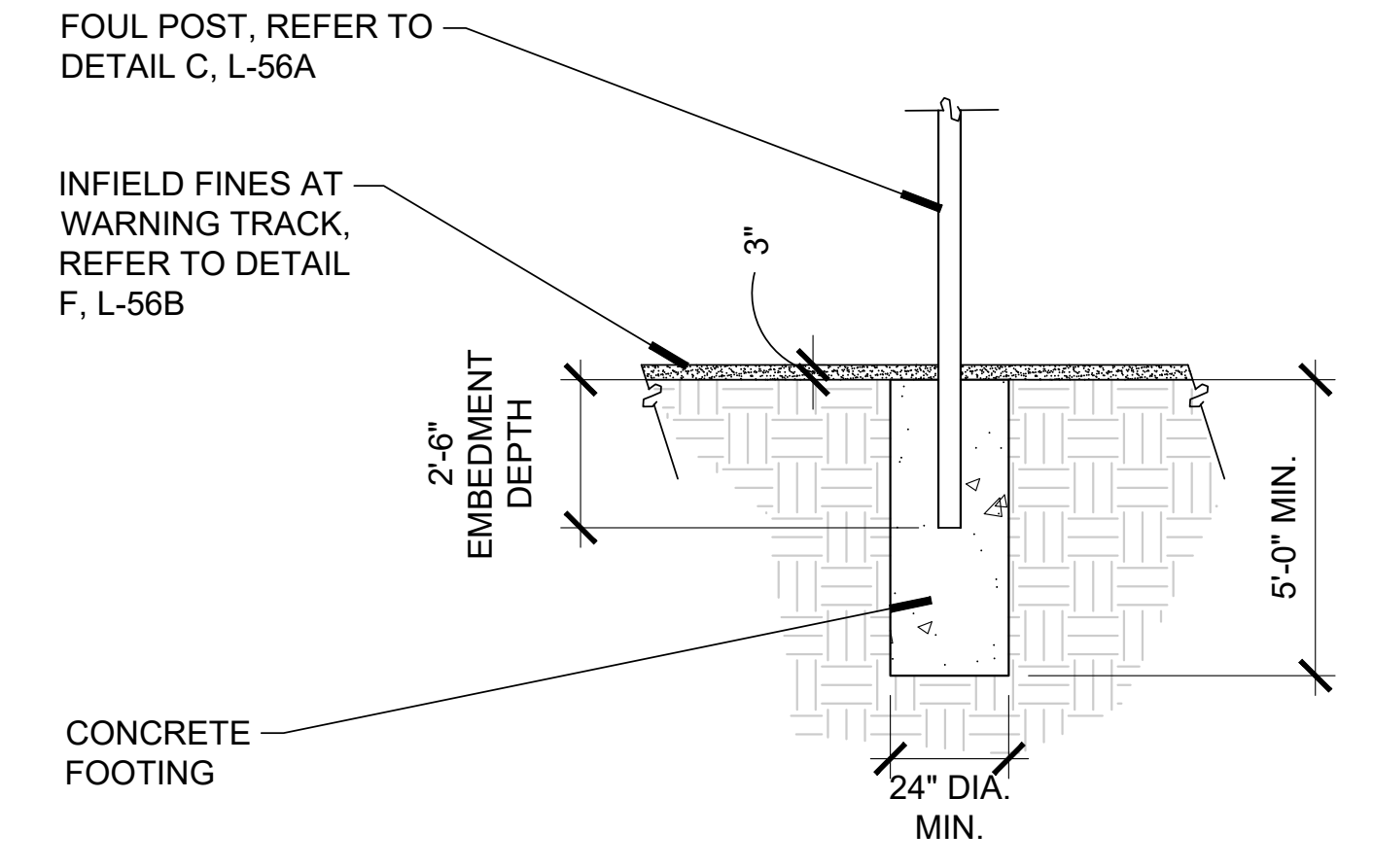


**NOTES:**  
1. REFER TO DETAIL A, L-56B FOR BASE LAYOUT.

**I BASE ANCHORING** SCALE: NTS



**H TENNIS POST ASSEMBLY** SCALE: NTS



**G FOUL POST FOOTING** SCALE: NTS

**F**

**SPORTSFIELD SPECIALTIES** Excellence from Design to Installation

10-11/16" x 10-3/4" x 18" Deep Helmet Storage (tp. 12x)

10-3/8" Sq. Front Bat Bin Storage Area (tp. 8x)

Recessed Pull Handle

Lockable Side Storage Access to Storage Area

Contractor to secure in place using 1/2" Galvanized Wedge Anchors, included (4x)

5/8" dia hilti kbz 316 stainless steel expansion bolt anchor on steel understructure, 3" effective embedment

**SUAHC12BBSS Helmet, Bat Bin and Side Storage Stand-Up Cubby Unit**

**SPECIFICATIONS:**  
HEAVY DUTY ALUMINUM CONSTRUCTION  
POWDER COATED FINISH, STANDARD COLORS AVAILABLE  
OPTIONAL VINYL LOGO OR NAME

**PROPRIETARY AND CONFIDENTIAL**  
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Not To Scale Sportsfield Specialties Inc 105716.1-221219

**E BAT STORAGE** SCALE: NTS

**SPORTSFIELD SPECIALTIES** Excellence from Design to Installation

Two Tier Polyboard Seating and Backrest

Powder Coated Finish on Frame, Various Standard Colors Available

Polyboard Made from Recycled Material, Various Standard Colors Available

Formed 1/8" Aluminum Welded Frame

2" Square Aluminum Tubing

Contractor to secure benches in place using Anchoring Brackets and 1/2" X 3-3/4" L Concrete Wedge Anchors Included

Holes for Bolting Benches Together

Length (See Table) Custom Lengths Available

11 1/2"

1'-3 1/2"

1'-6 13/16"

2'-4 1/16"

3'-2 1/16"

Part #	Length	Weight
PTBT8	8'	235 lbs

**Two Tier Polyboard Bench**

**NOTES:**  
1. PLAYER'S BENCH BY SPORTSFIELD SPECIALTIES, MODEL# PTBT8.  
2. COLOR TO BE TEXTURED BURGUNDY.

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**D PLAYER'S BENCH** SCALE: NTS

**SPORTSFIELD SPECIALTIES** Excellence from Design to Installation

Standard Powder Coated Yellow Finish, \*White or Orange Available Upon Request to Meet Current NCAA Softball Field of Play, Foul Pole Rule 2.16.1. Requiring a Contrasting Color to the Ball that Became Mandatory in 2018

1/8" Stamped Aluminum With Double Reinforced Bends

Wing Length (See Table)

Foul Pole Height (See Table)

Overall Length (See Table)

Embedment Depth (See Table)

Unless Specified and Designed at Time of Order, Banners, Flags, etc. Cannot be Placed on Any Foul Poles

Ground Sleeve

Stop Bolt: Prevents Rotation of Foul Pole

Finish Grade

[8'-0"] 96.125

Part No.	Foul Pole Height	Overall Length	Embedment Depth	Wing Length	# of Wing Panels	Pole Material	Minimum Foundation Diameter
FPW420	20'	22'-6"	2'-6"	12'	2	4" OD x 0.125" Wall Aluminum	18"

**Ground Sleeve Foul Pole with Wing**

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**C FOUL POLE** SCALE: NTS

**CONCORD AMERICAN** Independence Series IRW - Internal with Winch Wire Halyard Ground Set Installation

IRW25D61 - CLR

TRK-9650-CLR Int. Revolving Truck Sealed Bearings

BAL-0612-GLD HD Gold Anodized Aluminum Ball

COL1-A06S-CLR FC-11 Spin Alum 1-Piece

CLR Clear Powder Coat

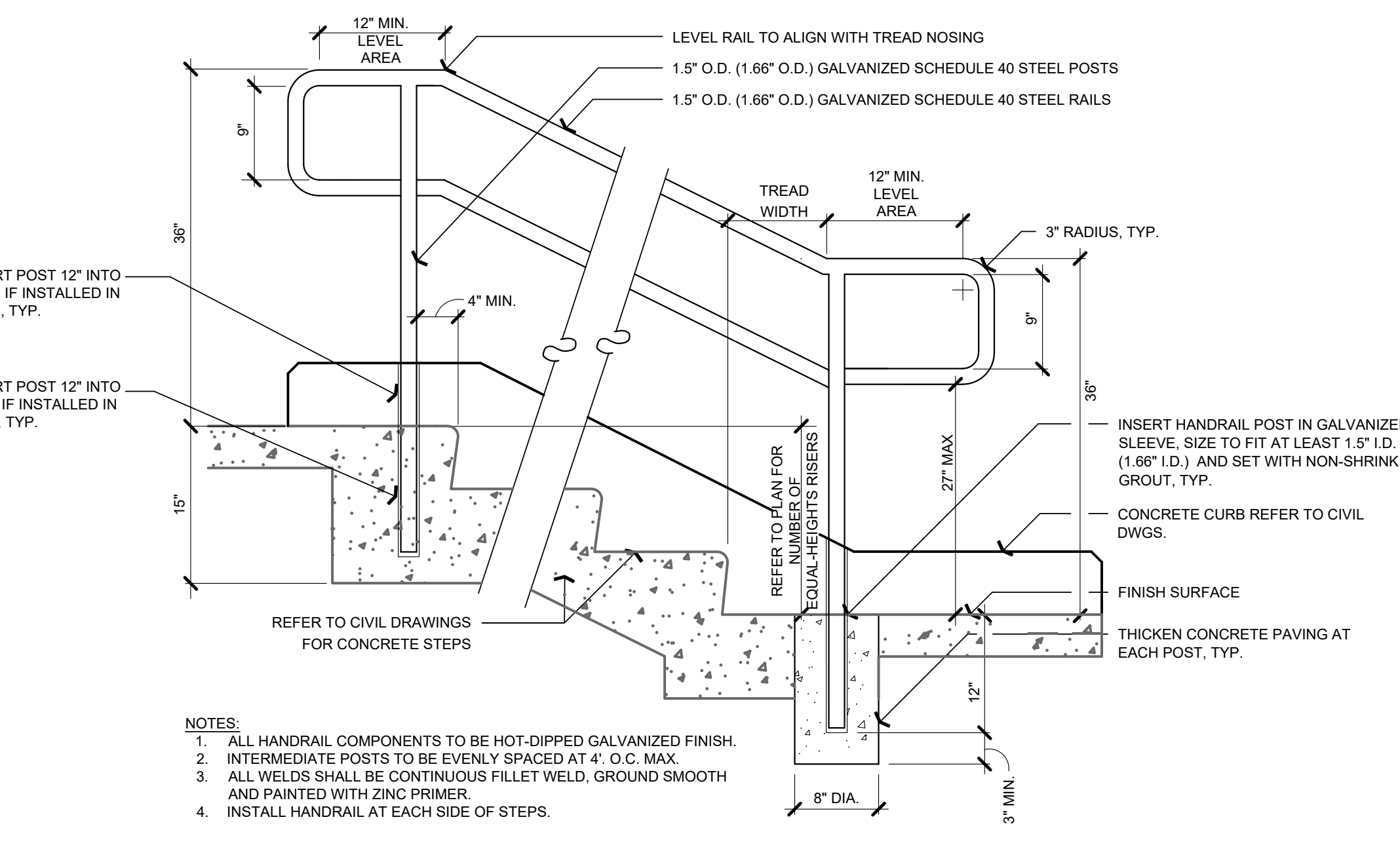
IRW - WINCH Reinforced Welded Door Frame

**Specifications**  
A. Mounting Height: 24"  
B. SET DEPTH: TOTAL FOOTING DEPTH 8"  
C. Total Length: 26'-6"  
D. Butt Diameter: 6"  
E. Wall Thickness: .168"  
F. Top Diameter: 3.5"  
Flagpole Sections: 1  
Shaft Weight: 145 lbs.  
Hardware Weight: 20 lbs.  
Ground Sleeve Weight: 32 lbs.  
\* Max Flag Size: 5' x 8'  
\* Max Wind Speed w/Nylon Flag: 168 mph  
\* Max Wind Speed No Flag: 253 mph  
\* Wind Speed Specifications from ANSINAAMM FP 1001-07

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

NOMINAL EXPOSED HEIGHT: Total Shaft Length of 26' flagpoles is 26'-6" with a Set Depth of 2'-6". With the Truck and Ornament attached, the nominal Mounting Height is 25'.

**B 25 FT FLAG POLE** SCALE: NTS



**A HANDRAIL AT STEPS** SCALE: NTS

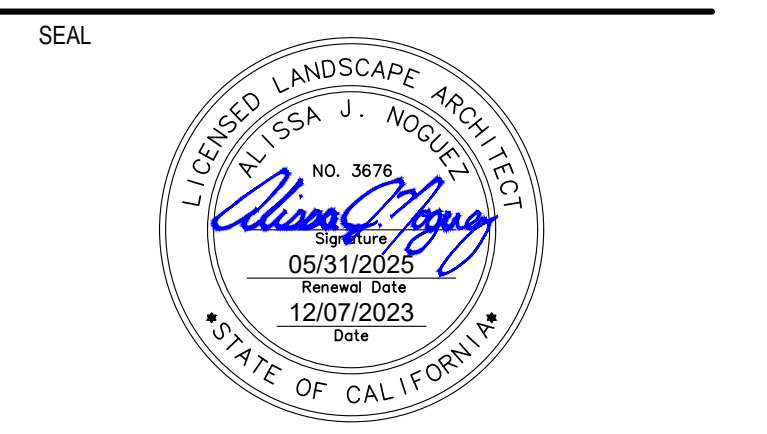
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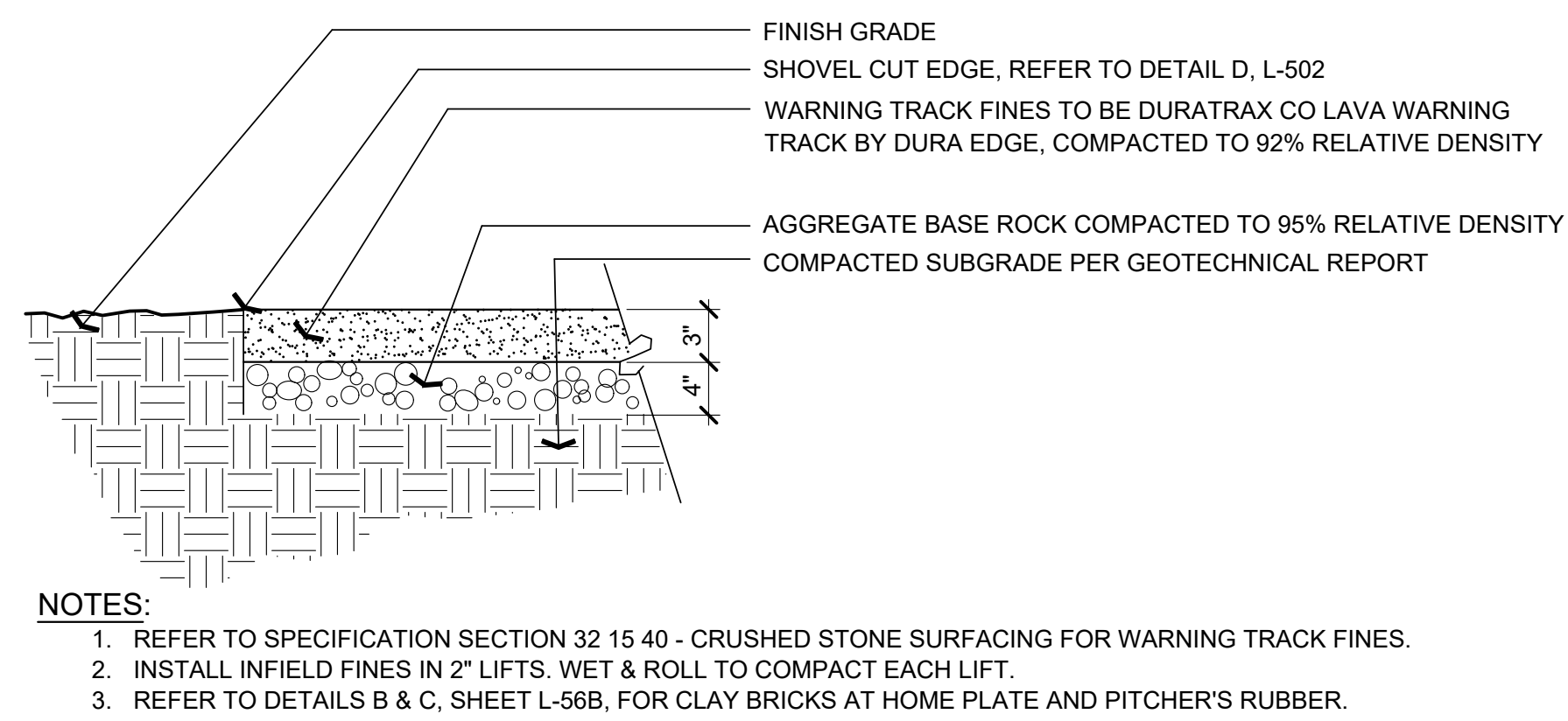
**CONSTRUCTION DETAILS**

SHEET  
**L-56A**

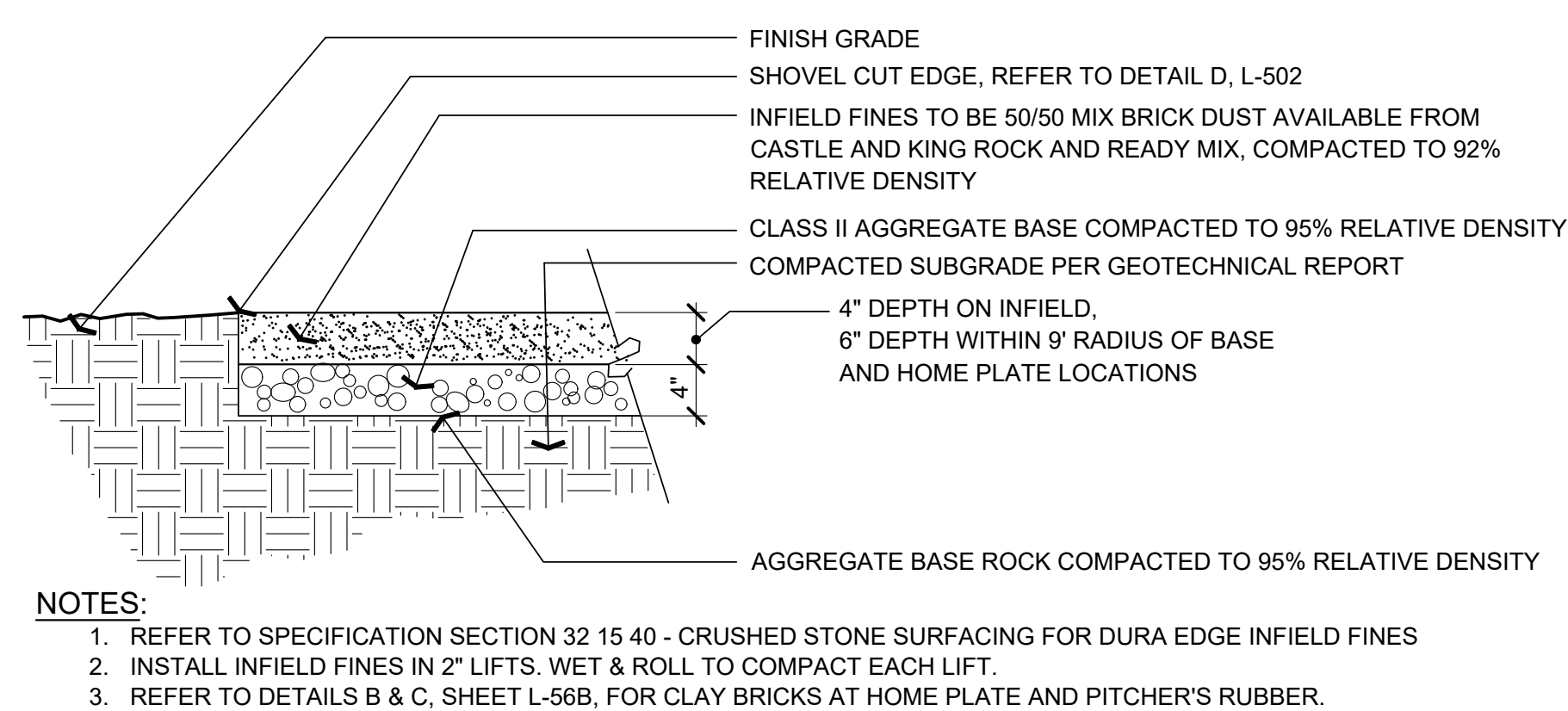
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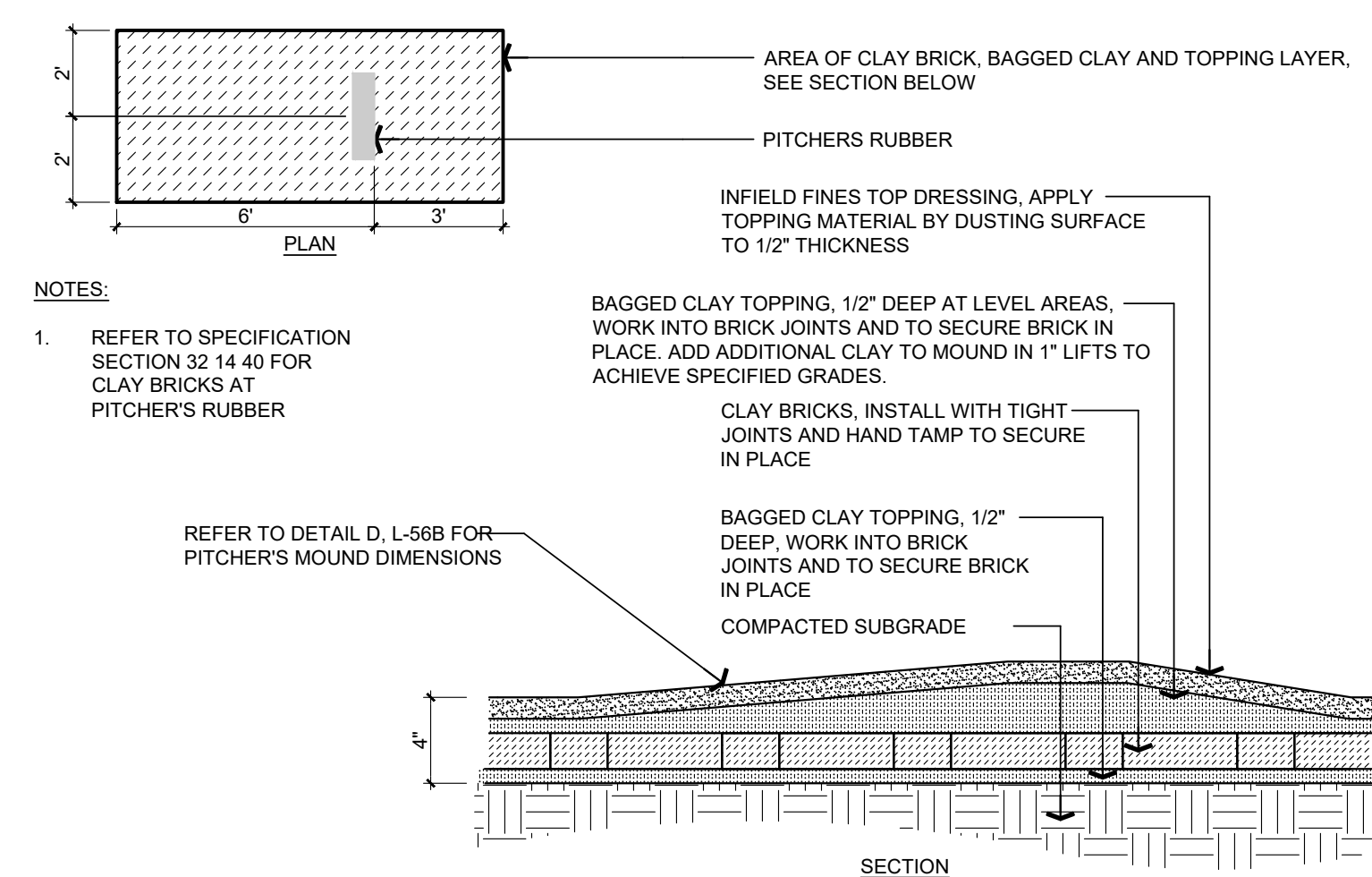
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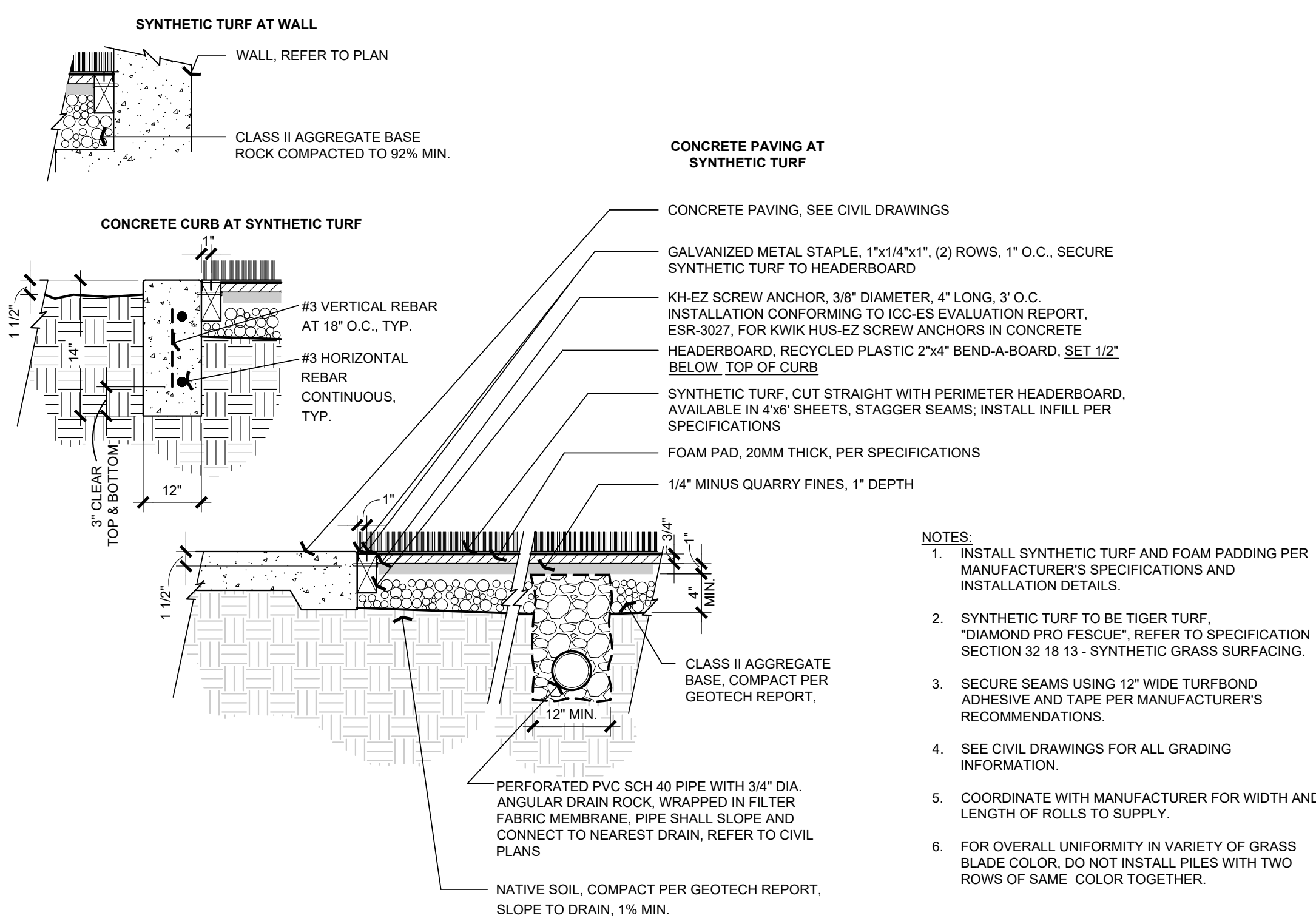
**I** WARNING TRACK FINES SCALE: NTS



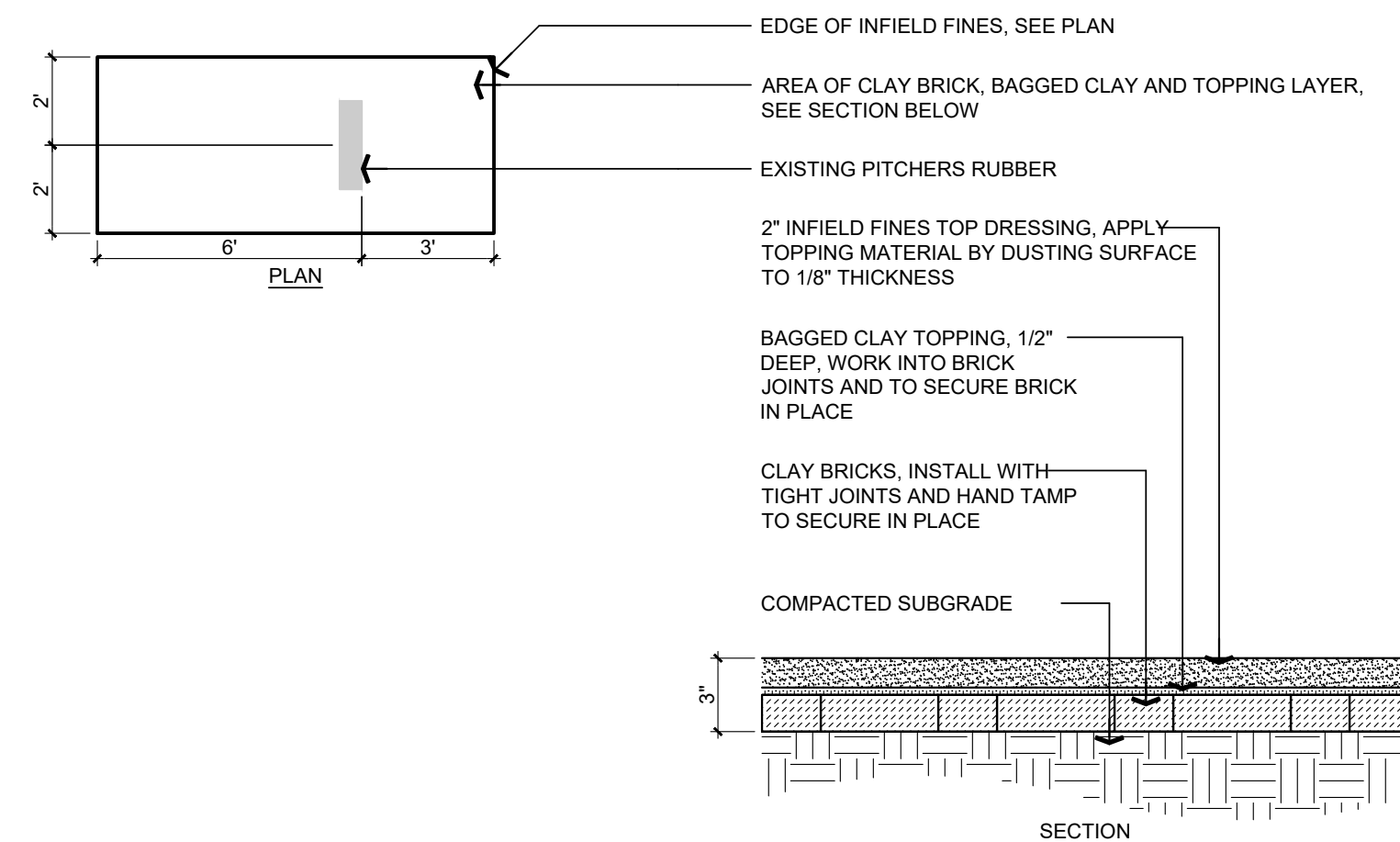
**F** INFELD FINES SCALE: NTS



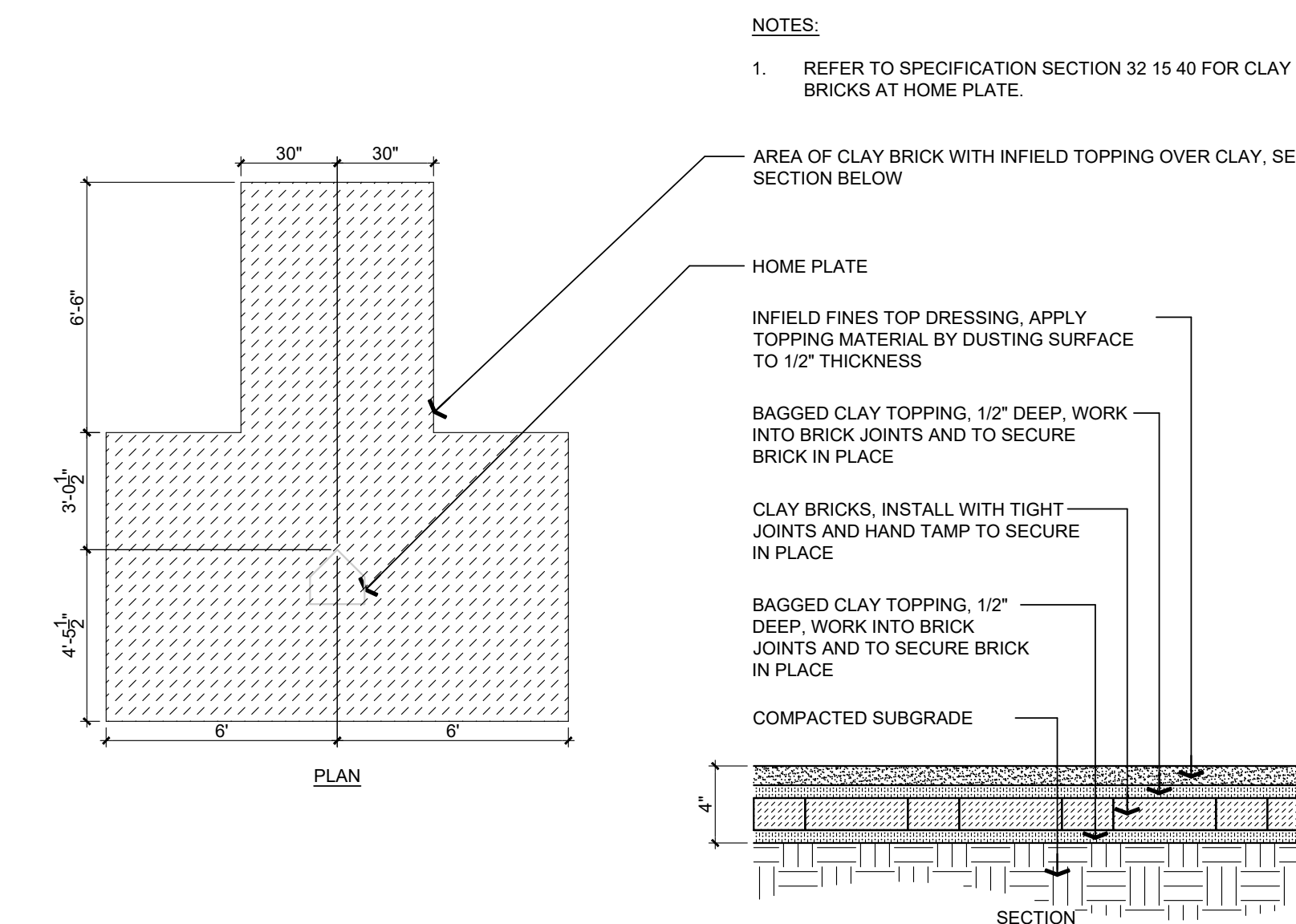
**C** CLAY BRICKS, PITCHER'S RUBBER SCALE: NTS



**H** SYNTHETIC TURF SCALE: NTS



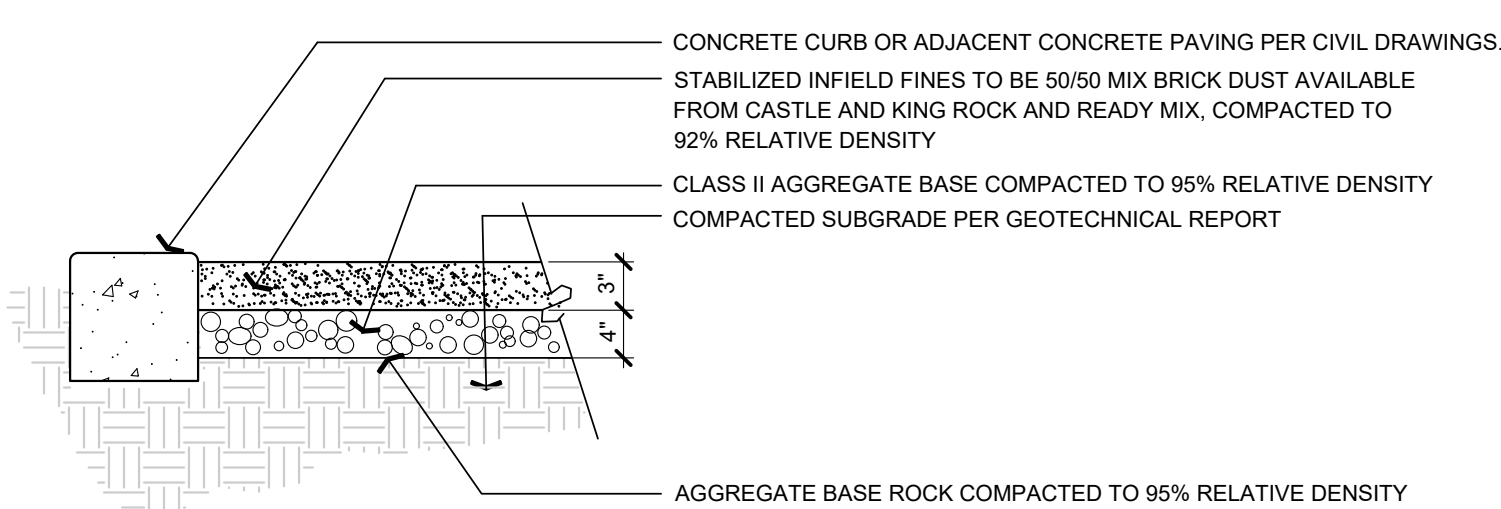
**E** PITCHER'S AREA, SOFTBALL SCALE: NTS



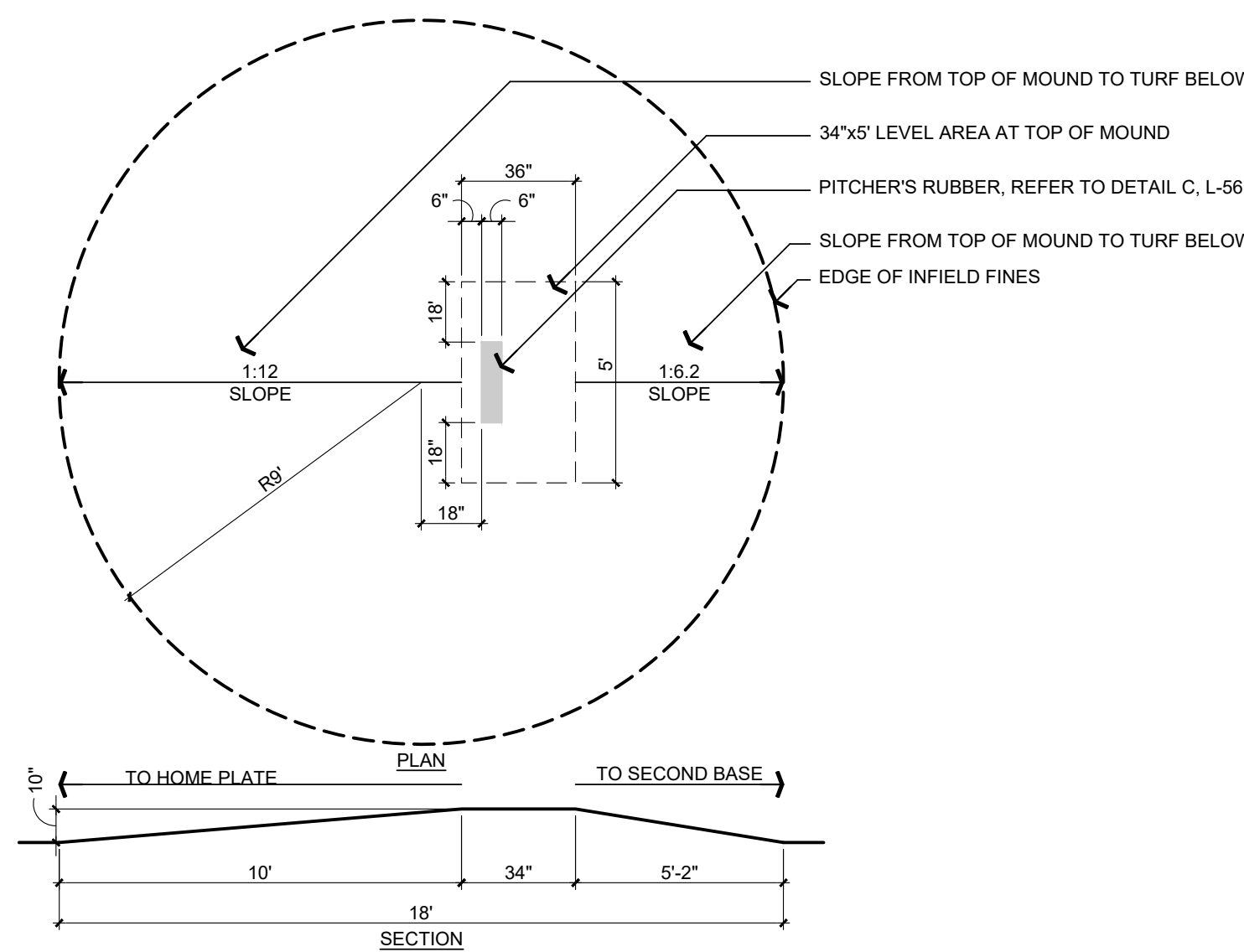
**B** CLAY BRICKS, HOME PLATE SCALE: NTS

**FINES AT PAVING NOTES:**

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

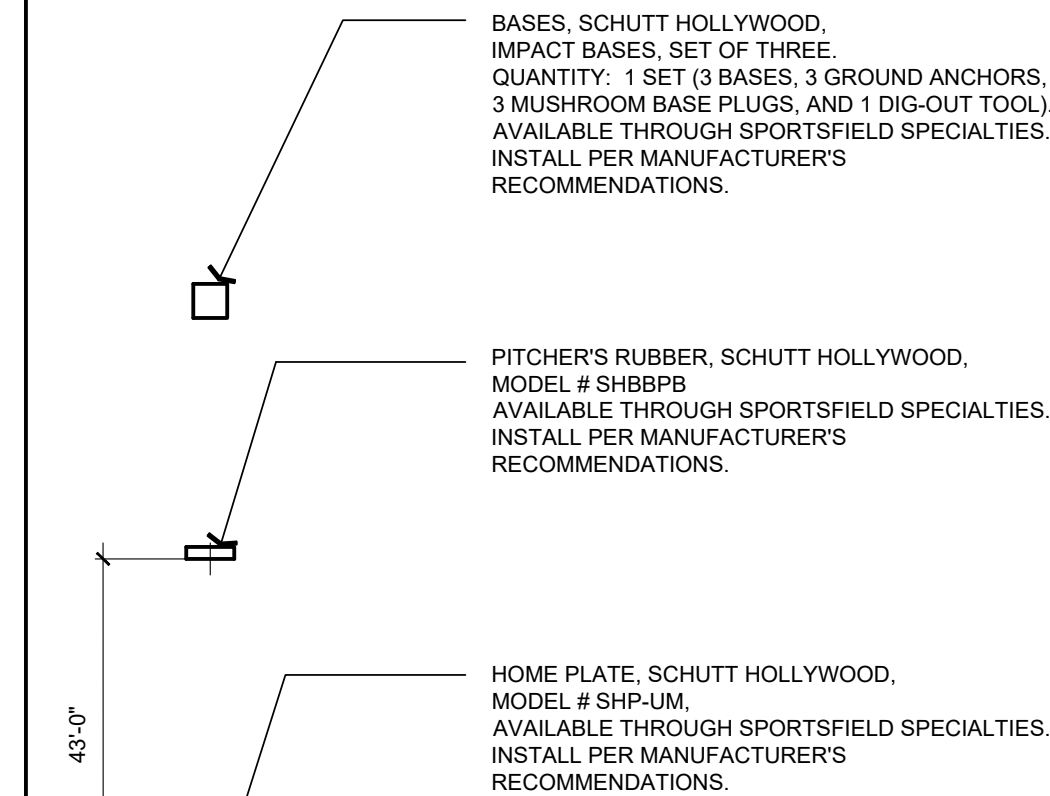


**G** STABILIZED FINES AT PAVING SCALE: NTS



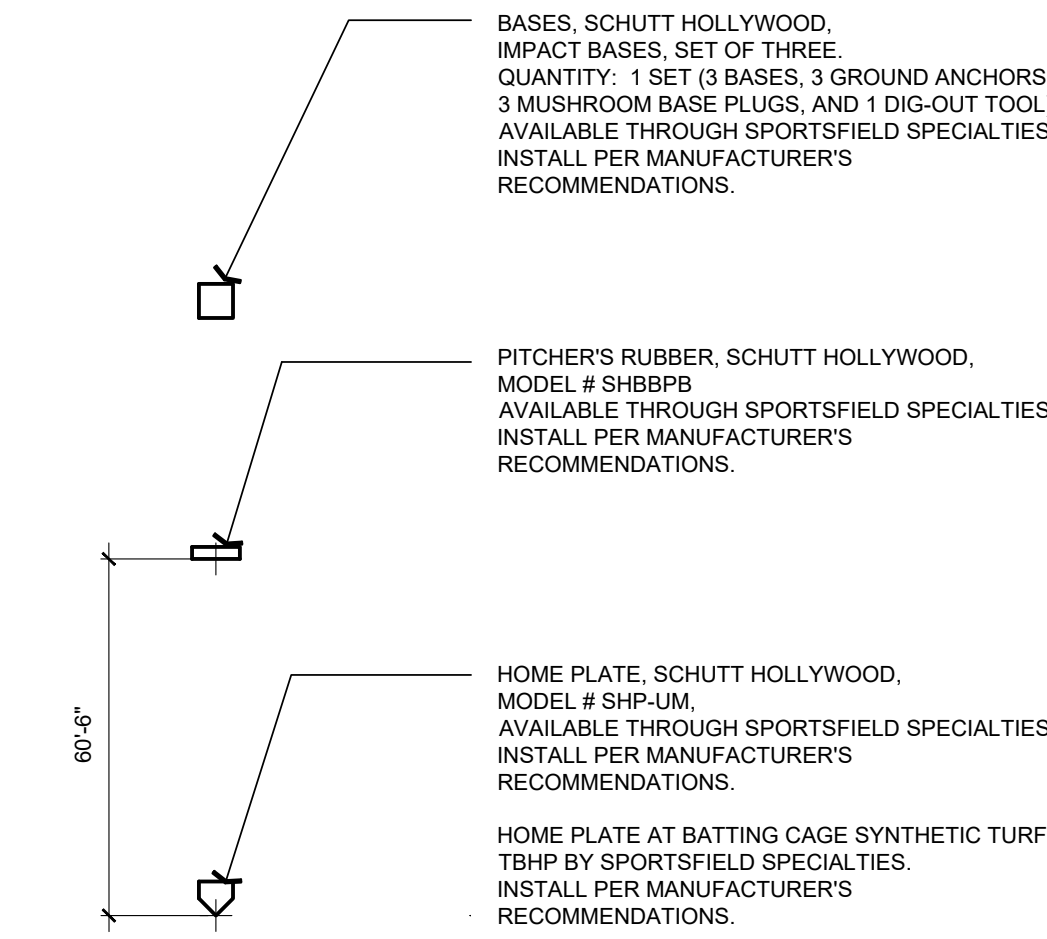
**D** PITCHER'S MOUND SCALE: NTS

**SOFTBALL**



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

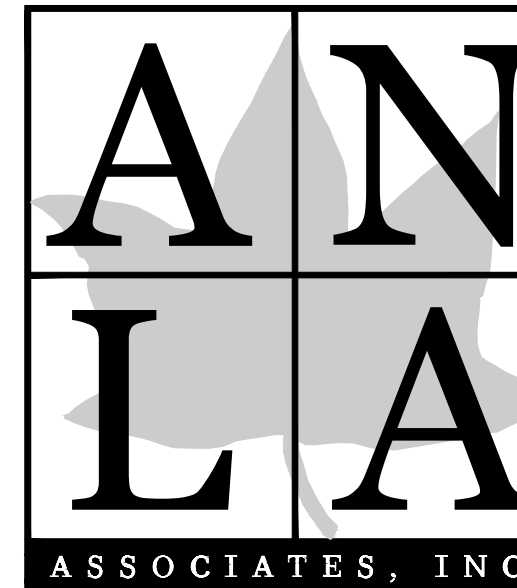
**BASEBALL**



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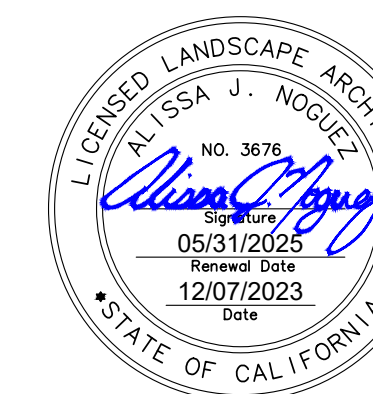
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**CONSTRUCTION  
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L-56B

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2318

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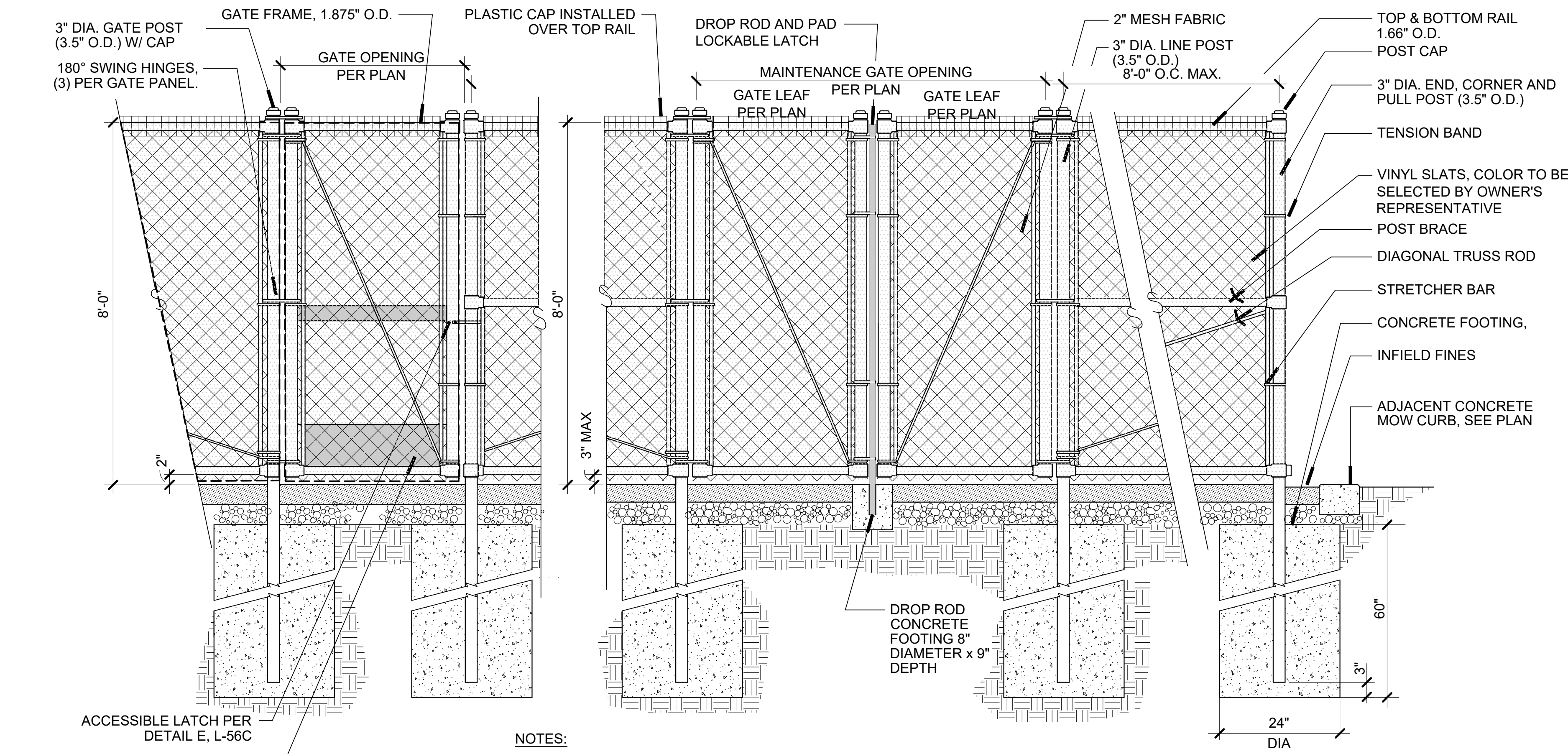
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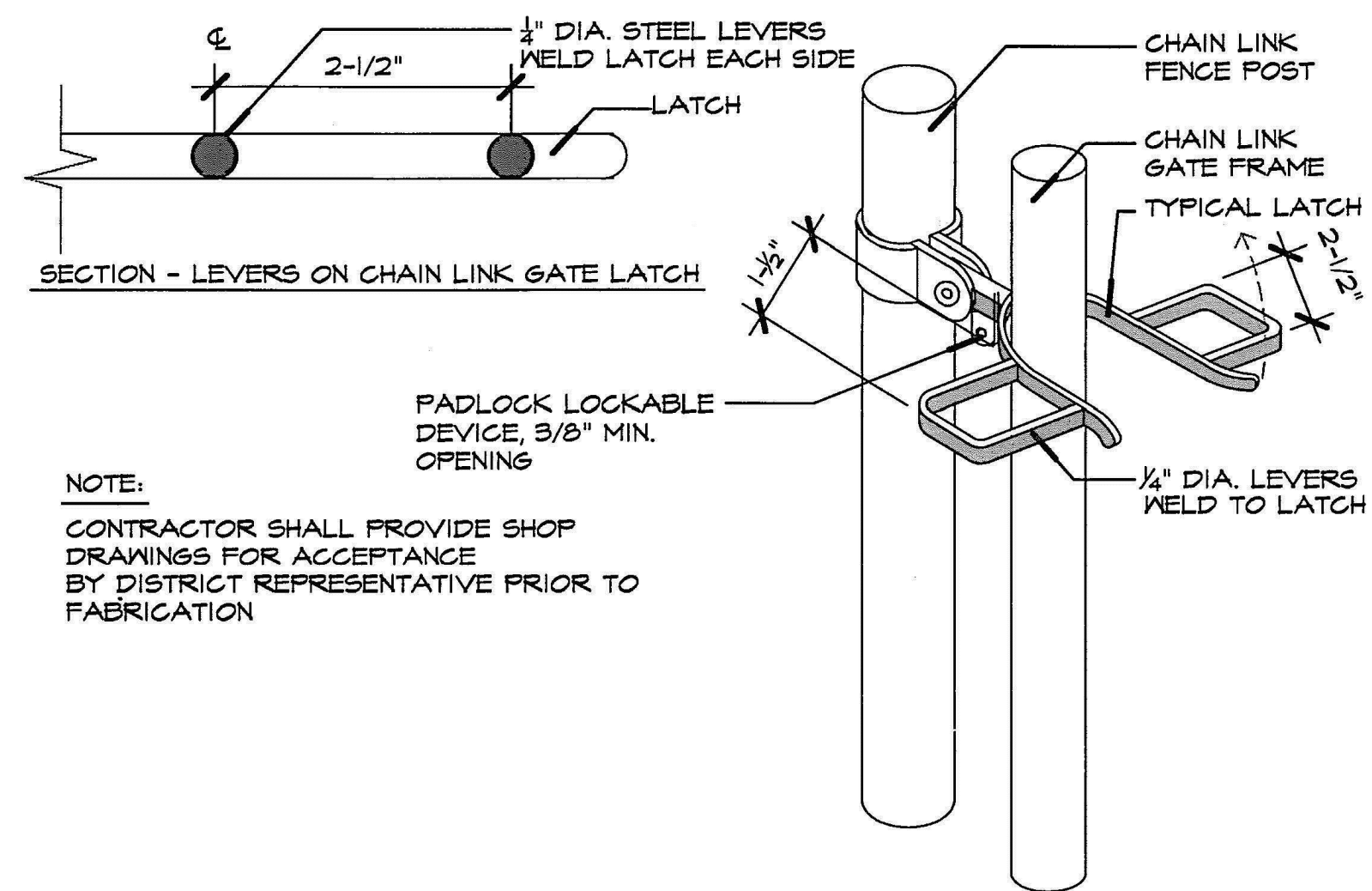


ACCESSIBLE LATCH PER DETAIL E, L-56C  
10" HIGH KICK PLATE AT ALL ACCESSIBLE GATES (BOTH SIDES)

- NOTES:**
- SOLID CLAD FENCING IS NOT PART OF THE DSA STRUCTURAL SAFETY APPROVAL (DSA IR A-22).
  - REFER TO SPECIFICATION 32 31 13 FOR CHAIN LINK FENCING.
  - ALL CHAIN LINK FENCE MATERIAL SHALL BE GALVANIZED.
  - REFER TO DETAIL E, L-56C FOR ACCESSIBLE GATE LATCH.
  - WHERE GATES OCCUR WITHIN THE PATH OF TRAVEL, GATES SHALL COMPLY WITH EXIT DOOR REQUIREMENTS (SECTION 1003.3.1).
  - INSTALL AER-FLO PLASTIC CAP PN TOP RAIL, COLOR TO BE YELLOW. SECURE IN PLACE PER MANUFACTURER'S RECOMMENDATIONS.
  - ALL EXPOSED CHAIN LINK FENCING MATERIAL TO BE PVC COATED. COLOR TO BE SELECTED BY OWNER'S REPRESENTATIVE.

**F** CHAIN LINK FENCE, 8' HIGH

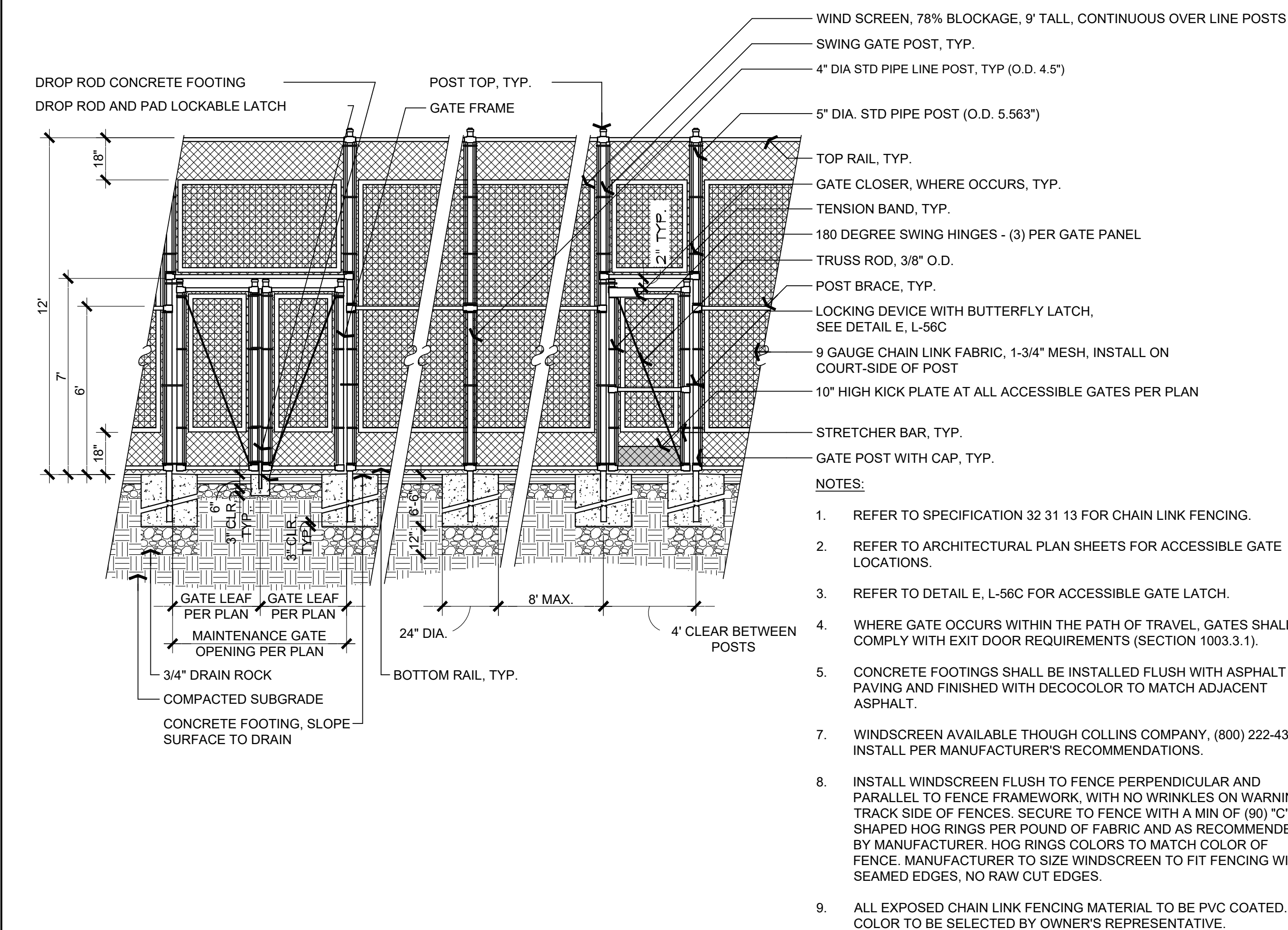
SCALE: NTS



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

**E** CHAIN LINK BUTTERFLY LATCH

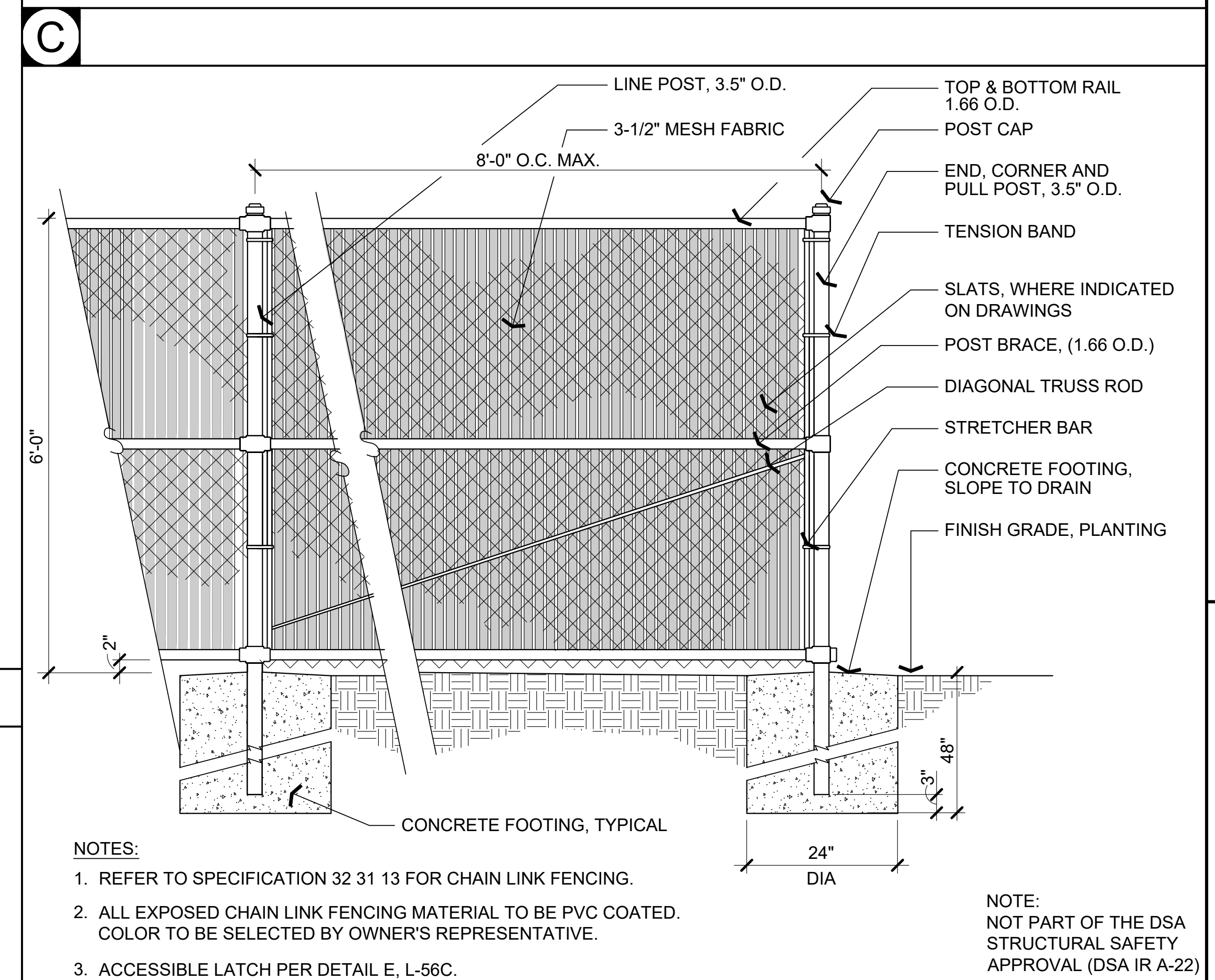
SCALE: NTS



- NOTES:**
- REFER TO SPECIFICATION 32 31 13 FOR CHAIN LINK FENCING.
  - REFER TO ARCHITECTURAL PLAN SHEETS FOR ACCESSIBLE GATE LOCATIONS.
  - REFER TO DETAIL E, L-56C FOR ACCESSIBLE GATE LATCH.
  - WHERE GATE OCCURS WITHIN THE PATH OF TRAVEL, GATES SHALL COMPLY WITH EXIT DOOR REQUIREMENTS (SECTION 1003.3.1).
  - CONCRETE FOOTINGS SHALL BE INSTALLED FLUSH WITH ASPHALT PAVING AND FINISHED WITH DECOCOLOR TO MATCH ADJACENT ASPHALT.
  - WINDSCREEN AVAILABLE THROUGH COLLINS COMPANY, (800) 222-4348. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
  - 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.
  - ALL EXPOSED CHAIN LINK FENCING MATERIAL TO BE PVC COATED. COLOR TO BE SELECTED BY OWNER'S REPRESENTATIVE.

**D** CHAIN LINK FENCE, 12'

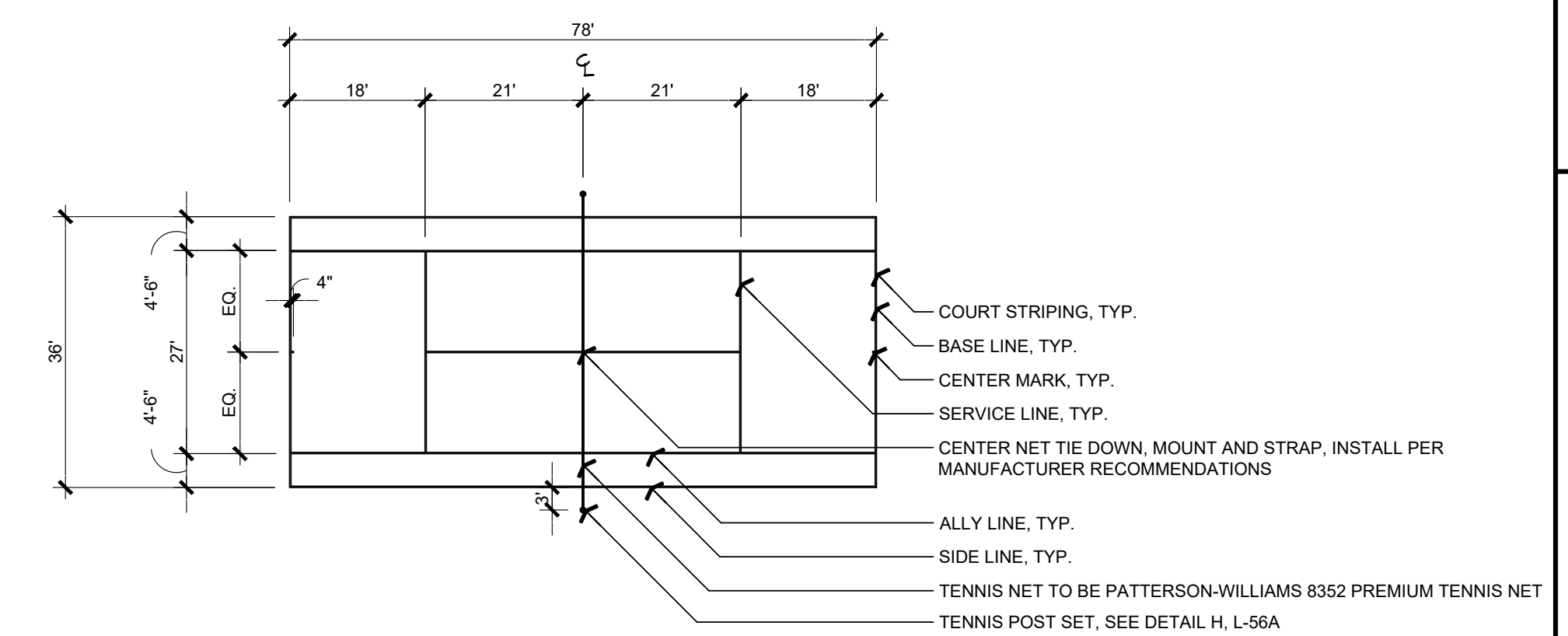
SCALE: NTS



- NOTES:**
- REFER TO SPECIFICATION 32 31 13 FOR CHAIN LINK FENCING.
  - ALL EXPOSED CHAIN LINK FENCING MATERIAL TO BE PVC COATED. COLOR TO BE SELECTED BY OWNER'S REPRESENTATIVE.
  - ACCESSIBLE LATCH PER DETAIL E, L-56C.
- NOTE:**  
NOT PART OF THE DSA STRUCTURAL SAFETY APPROVAL (DSA IR A-22)

**B** CHAIN LINK FENCE, 6' HIGH

SCALE: NTS



- NOTES:**
- AREA BETWEEN COURT AND EDGE OF ASPHALT PAVING TO BE FINISHED IN DECOCOLOR "FOREST GREEN" BY DECOTURF. REFER TO SPECIFICATIONS.
  - ALL TENNIS COURT STRIPING TO BE 2" WIDE WHITE DECOCOLOR FINISH BY DECOTURF PER SPECIFICATION 32 12 33.1.
  - COURT FIELD OF PLAY TO BE PAINTED "ROYAL BLUE." REFER TO SPECIFICATIONS 32 12 33.1.
  - TENNIS NET TO BE INSTALLED BY CONTRACTOR FOR SUBSTANTIAL COMPLETION REVIEW.
  - 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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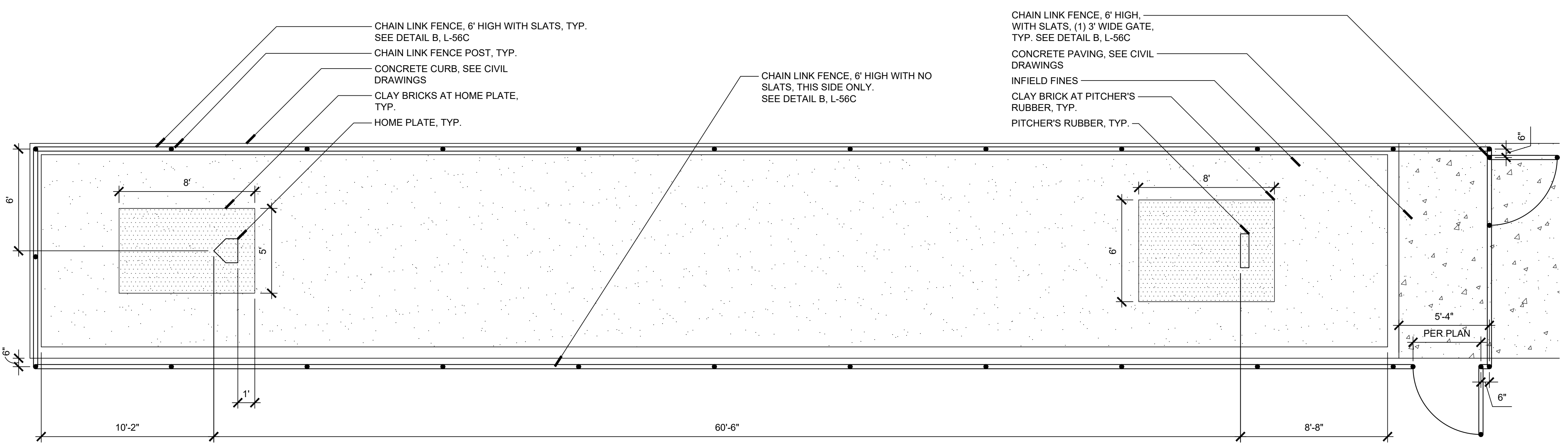
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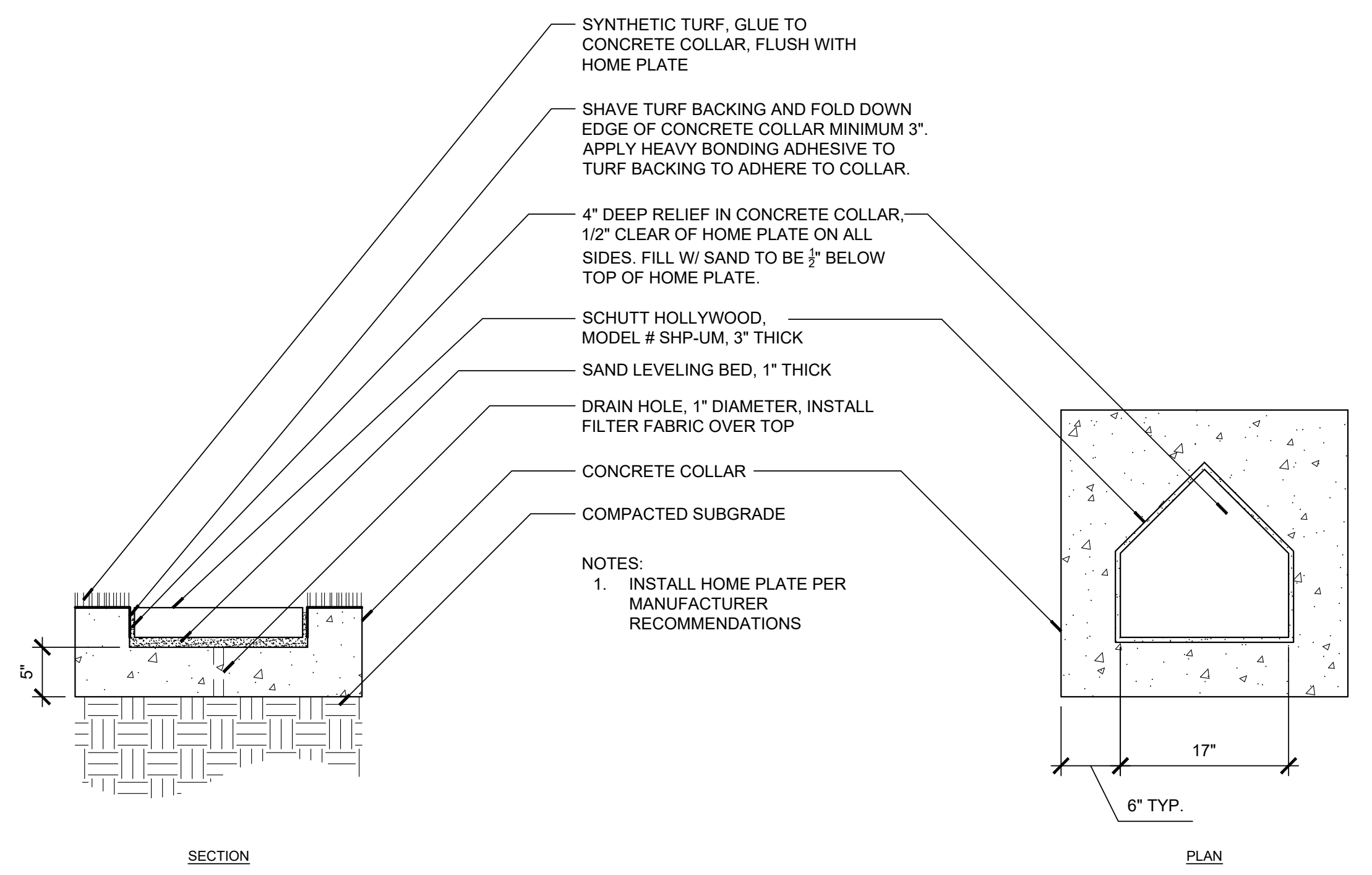
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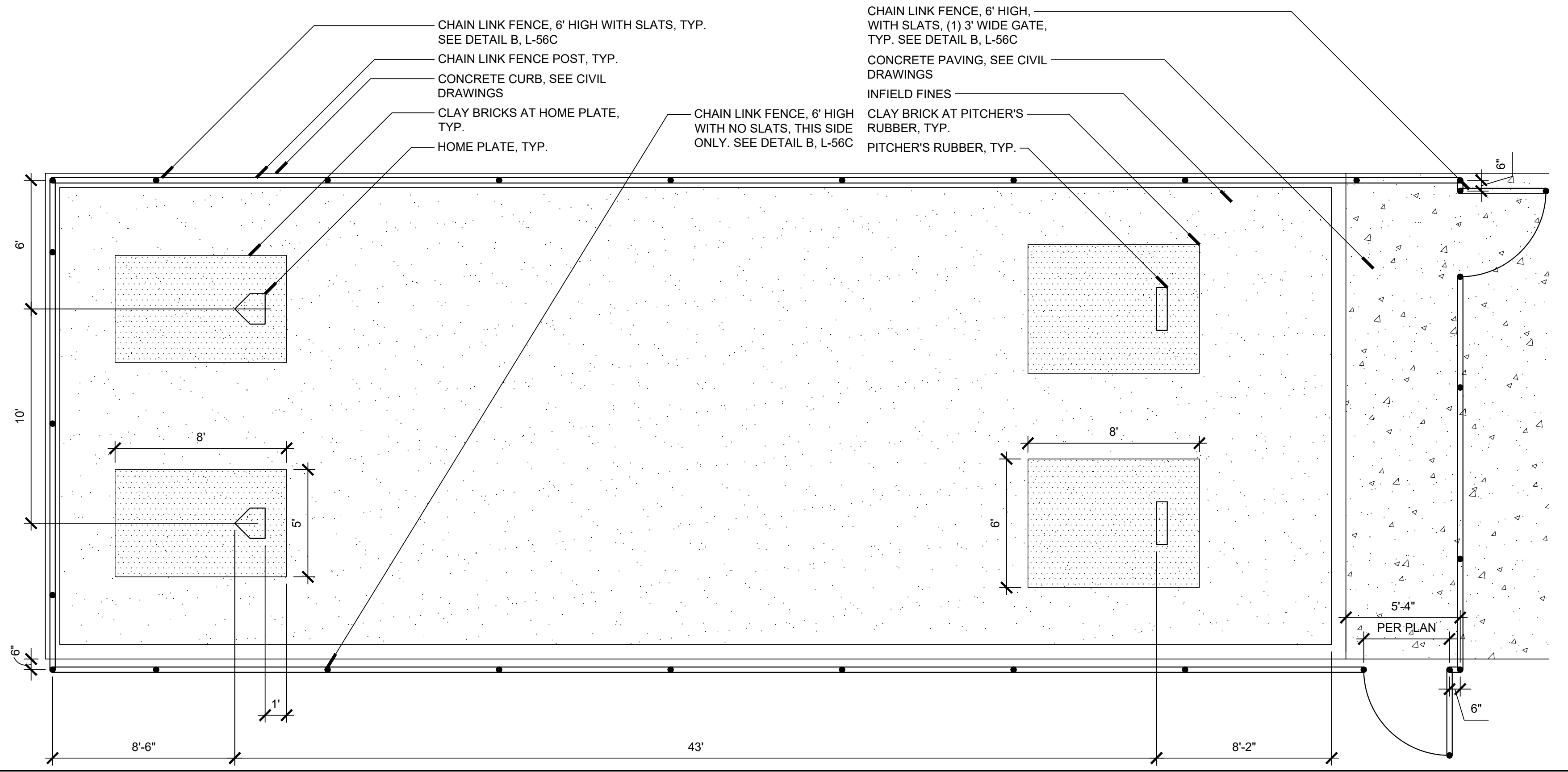
**F** BASEBALL BULLPEN, SINGLE

SCALE: NTS



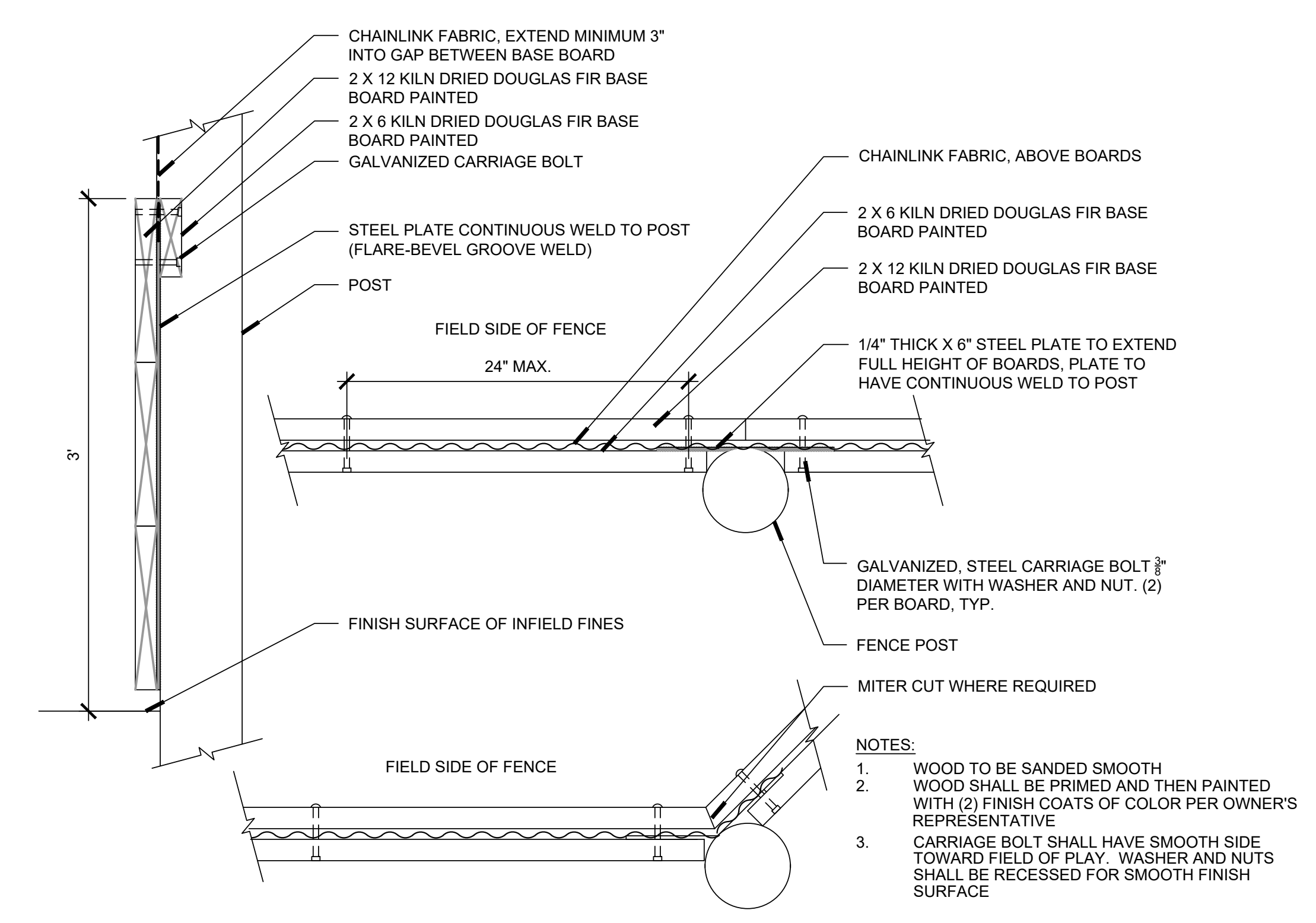
**C** HOME PLATE AT SYNTHETIC TURF

SCALE: NTS



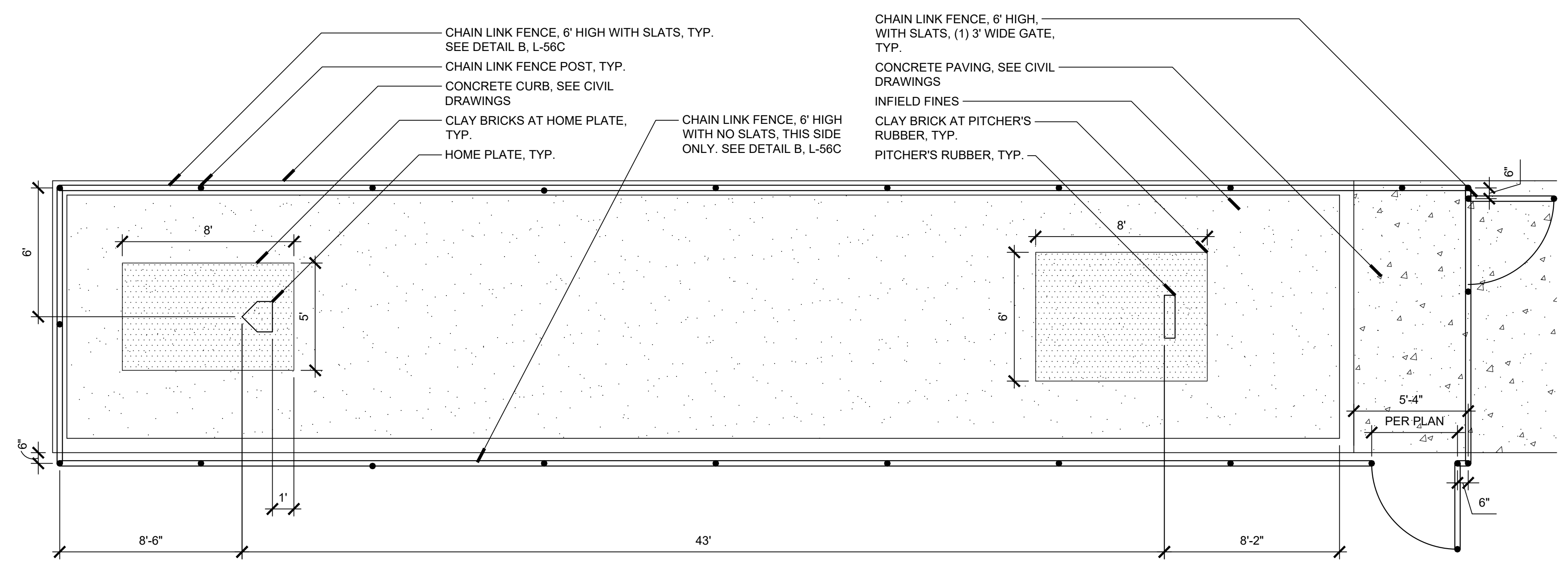
**E** SOFTBALL BULLPEN, DOUBLE

SCALE: NTS



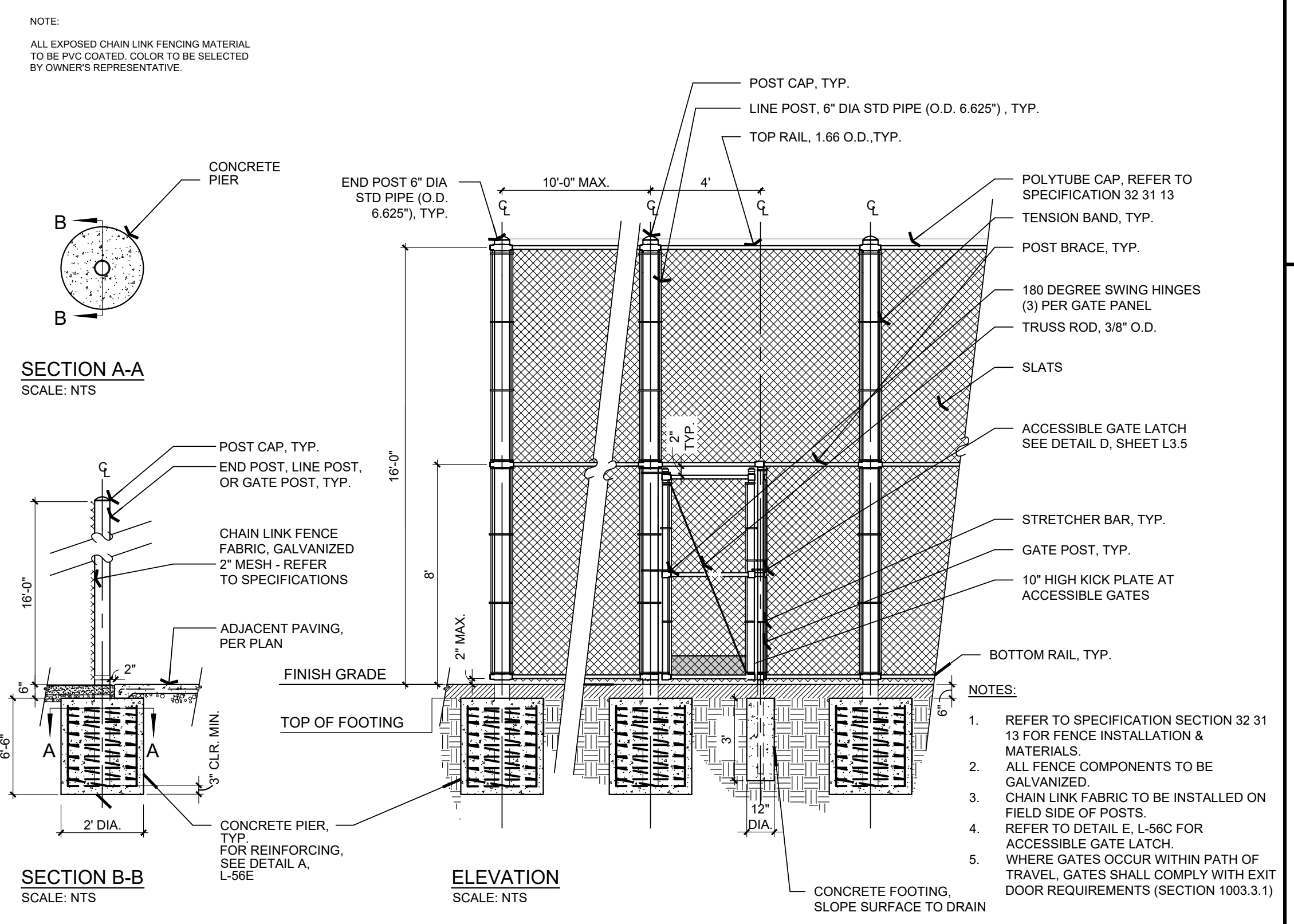
**B** BASEBOARD AT BACKSTOP (INSTALLED CONTINUOUS ON 30'-0" HIGH CHAINLINK FENCE)

SCALE: NTS



**D** SOFTBALL BULLPEN, SINGLE

SCALE: NTS



**A** CHAIN LINK FENCE, 16'

SCALE: NTS

**LIONAKIS**

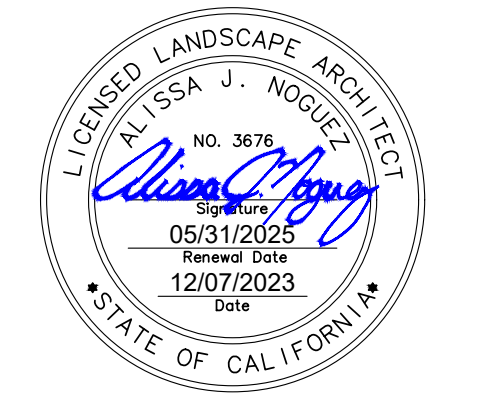
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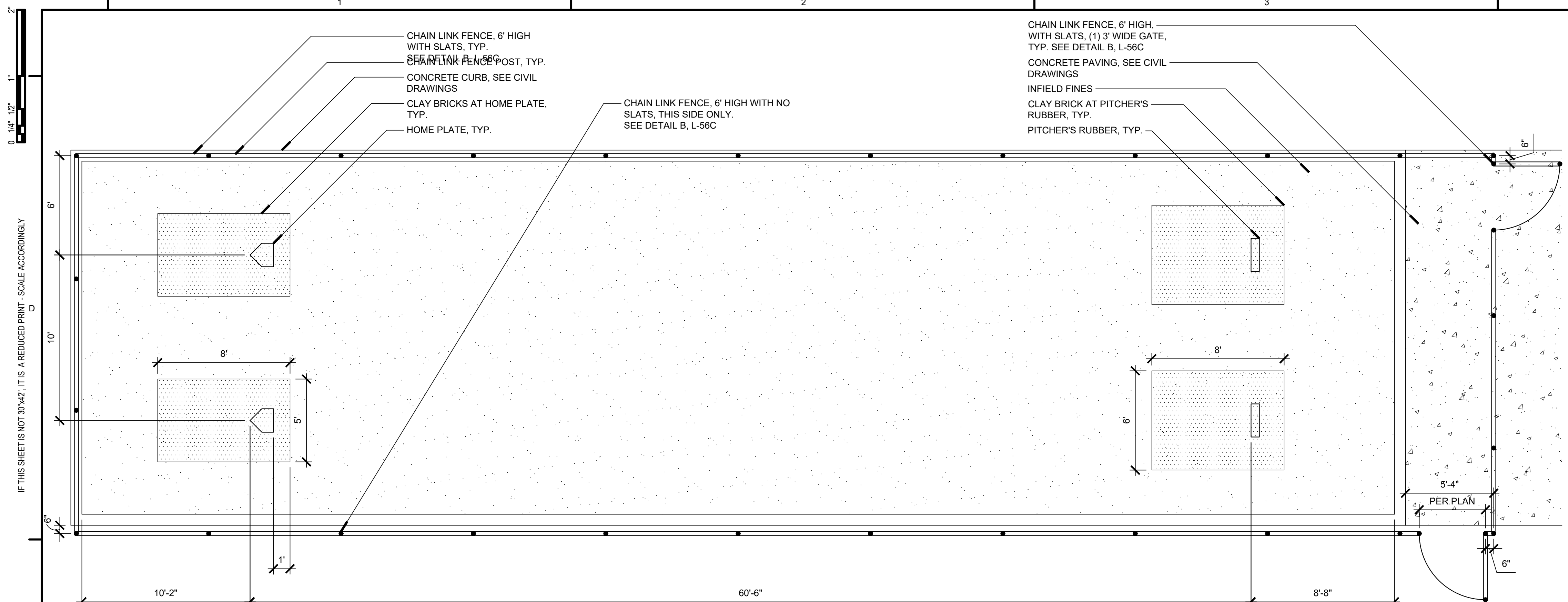
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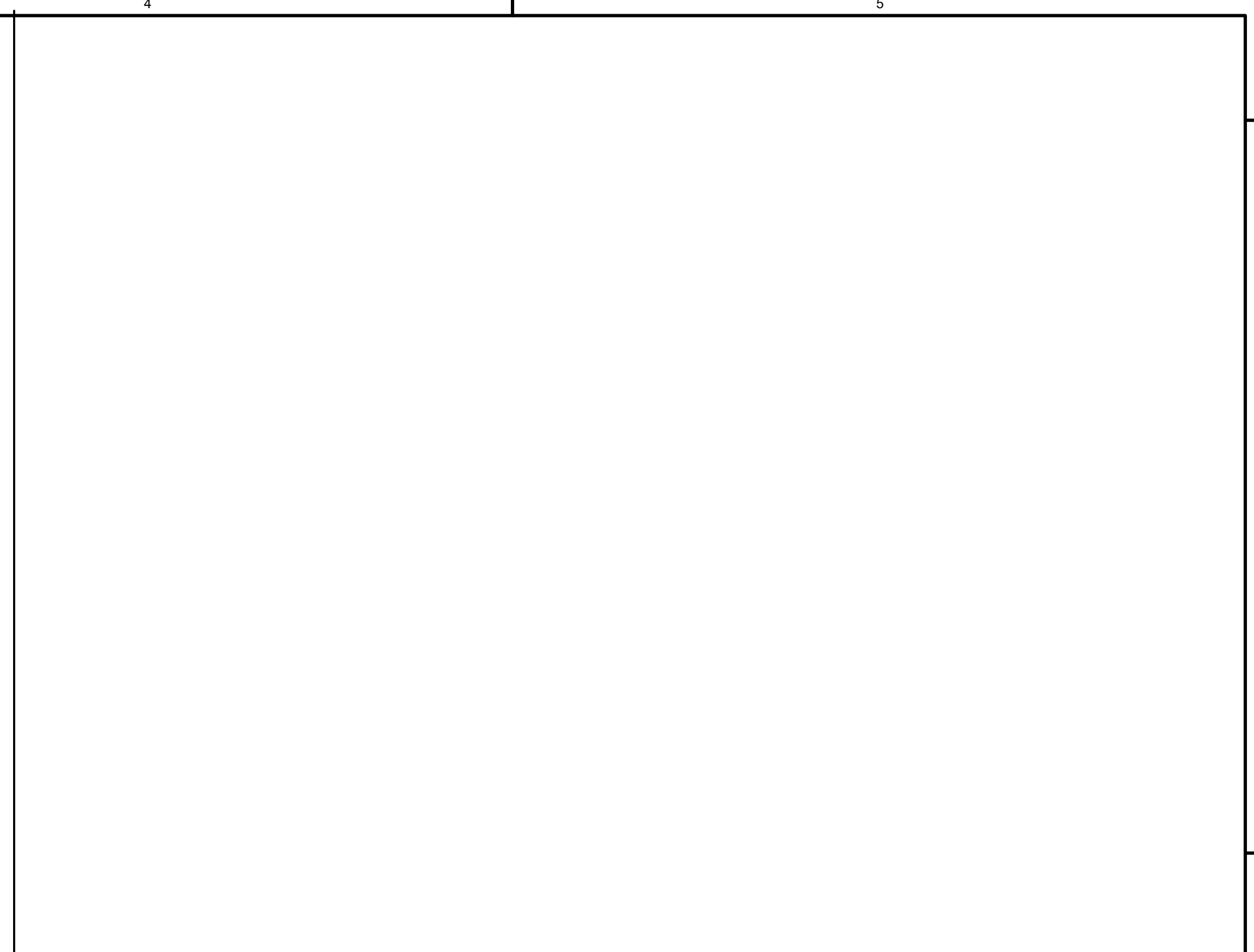
L-56D

ANLA PROJECT NO. \_\_\_\_\_

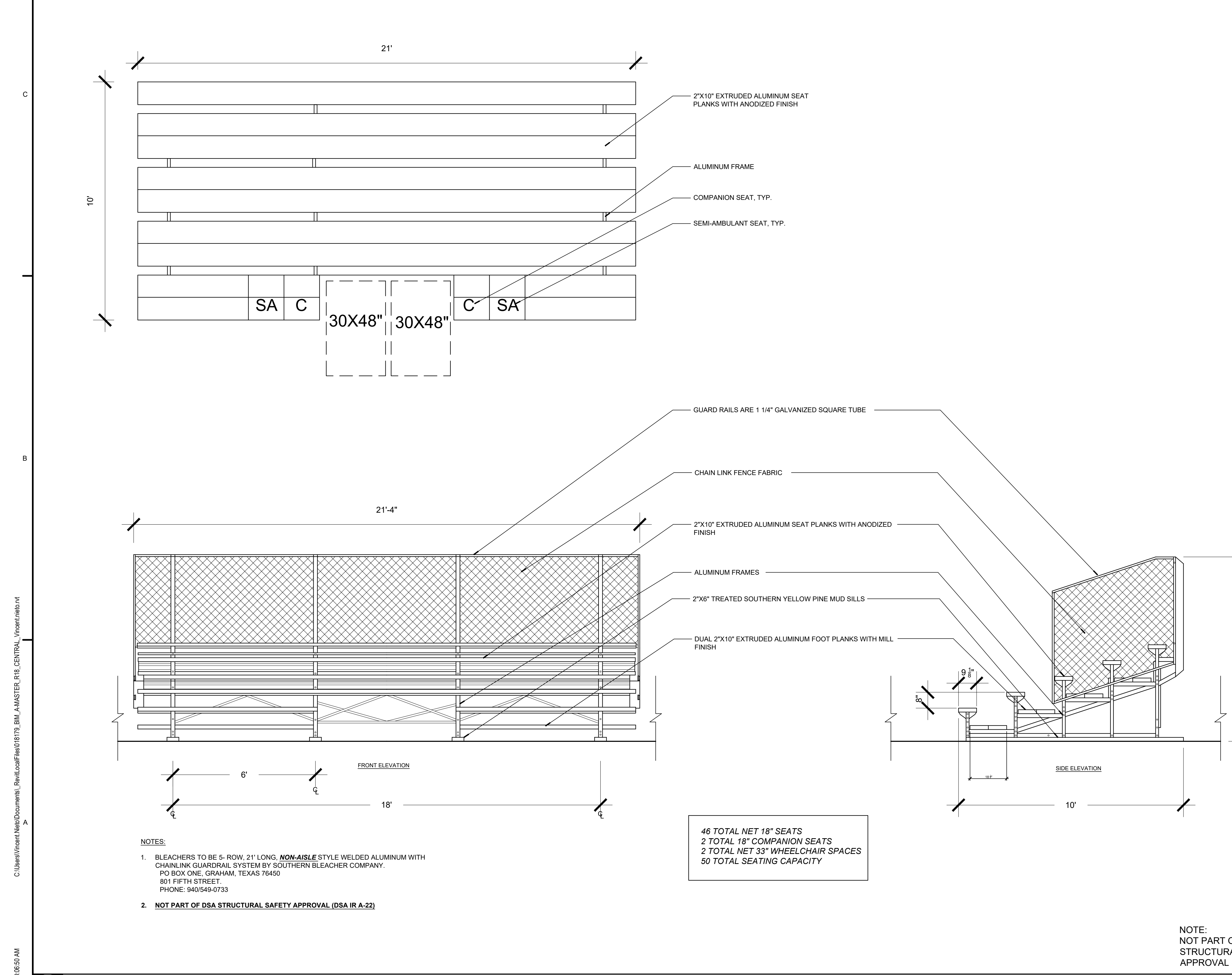
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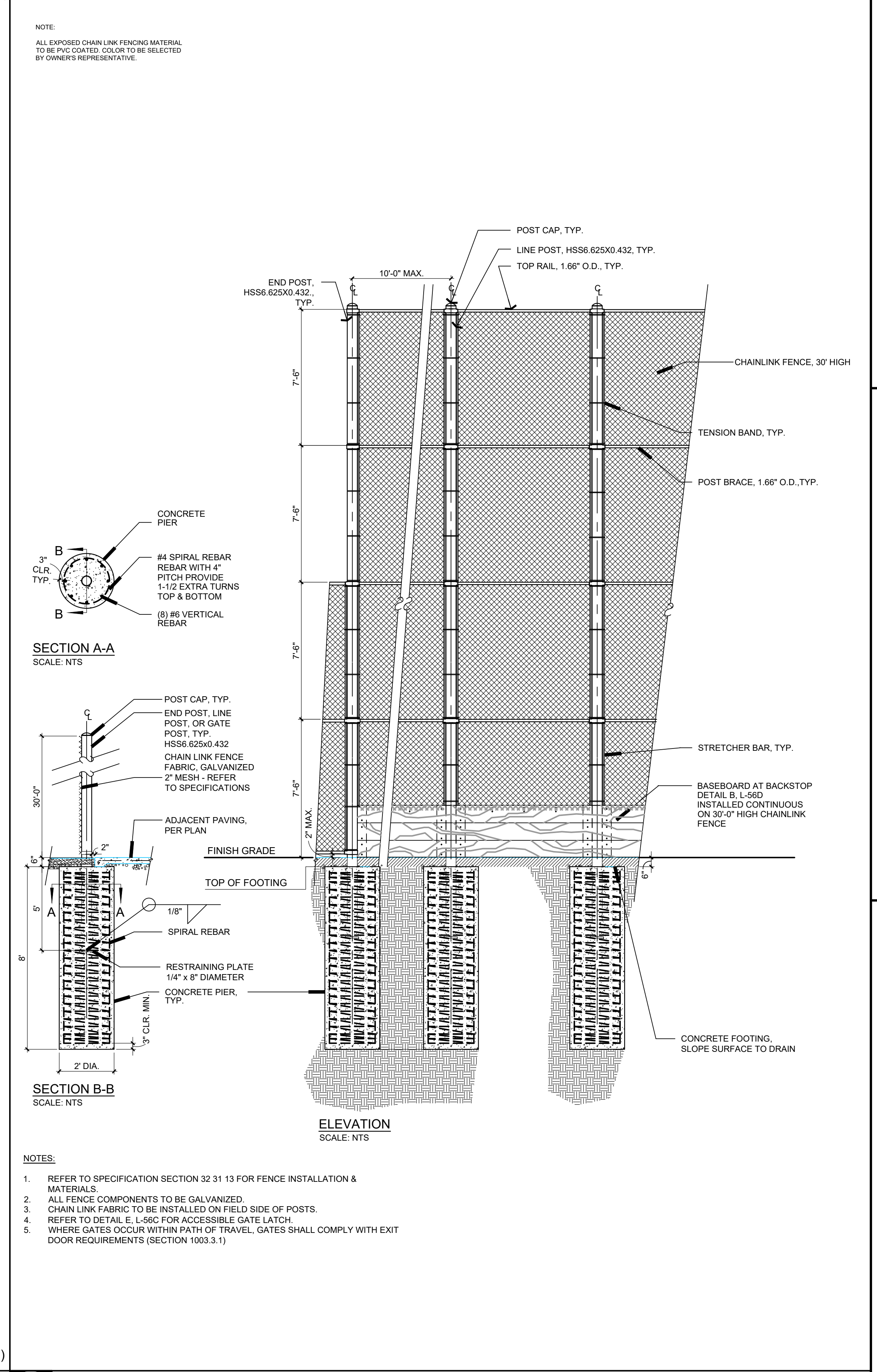
**D** BASEBALL BULLPEN, DOUBLE



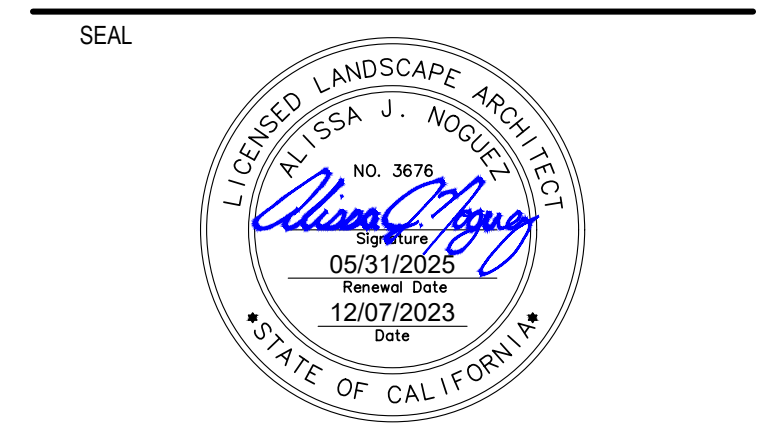
**B** CHAIN LINK FENCE, 30"



**C** BLEACHERS



**A** CHAIN LINK FENCE, 30"



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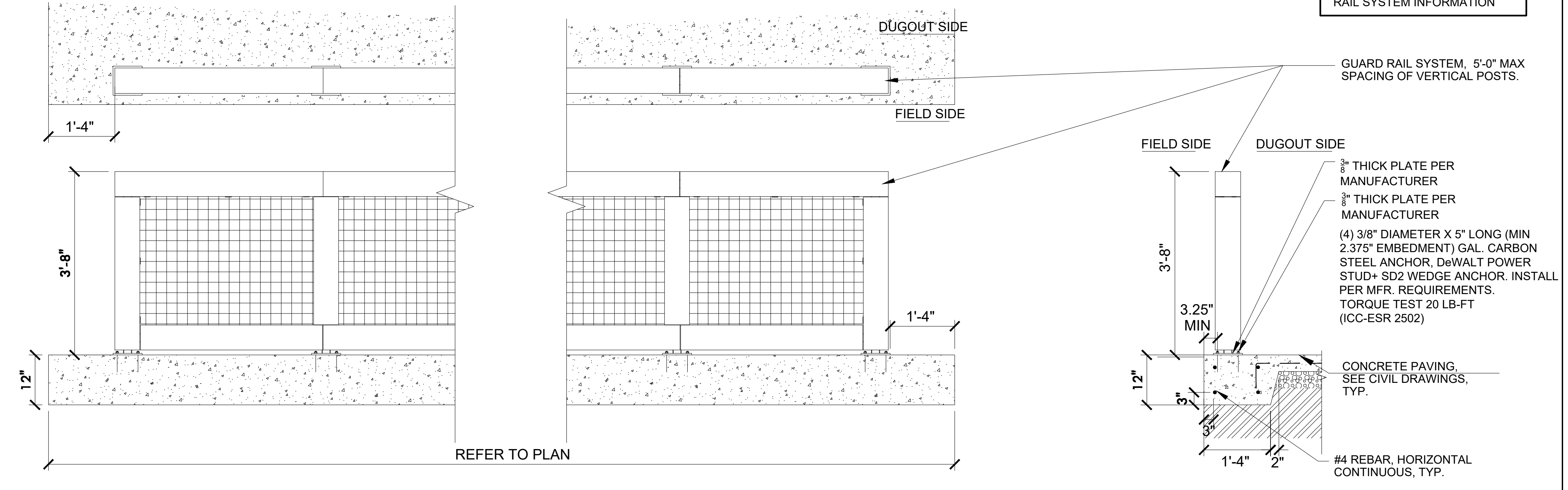
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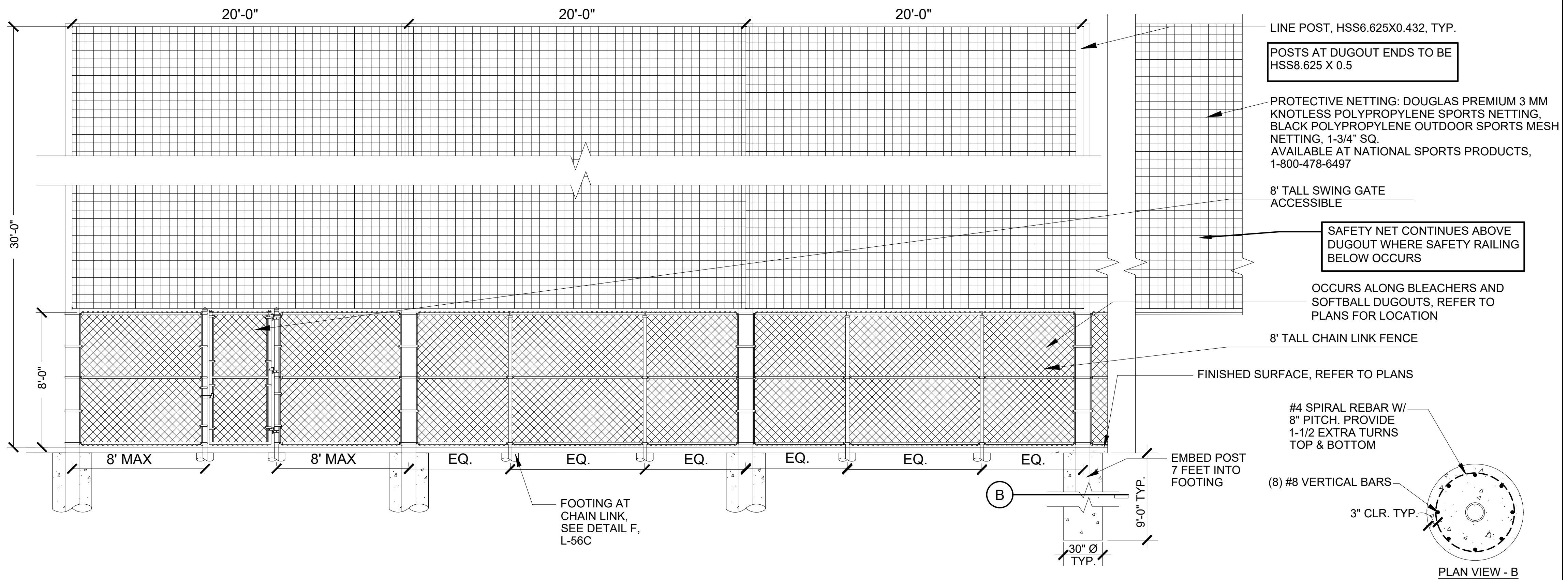
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REFER TO SPECIFICATION SECTION 11 68 33.33, BASEBALL FIELD EQUIPMENT, FOR GUARD RAIL SYSTEM INFORMATION



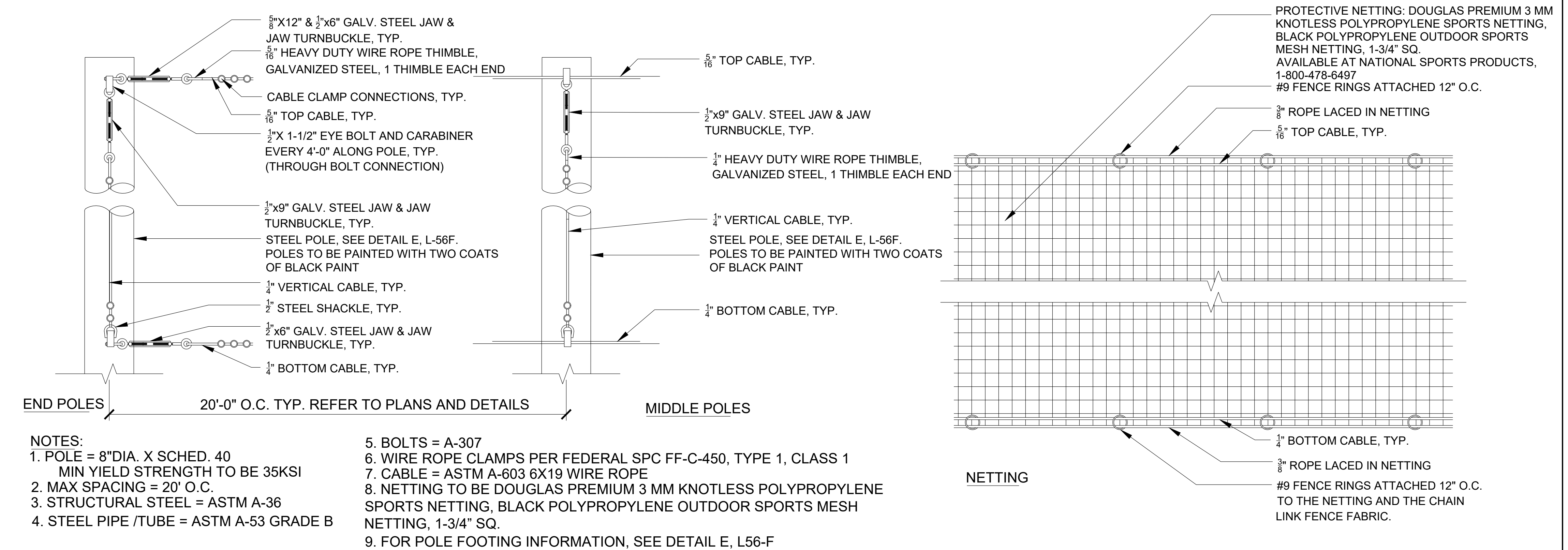
**F** GUARD RAIL SYSTEM

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  
MAX SPACING = 20' O.C.
  2. STRUCTURAL STEEL = ASTM A-36
  3. STEEL PIPE /TUBE = ASTM A-53 GRADE B
  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

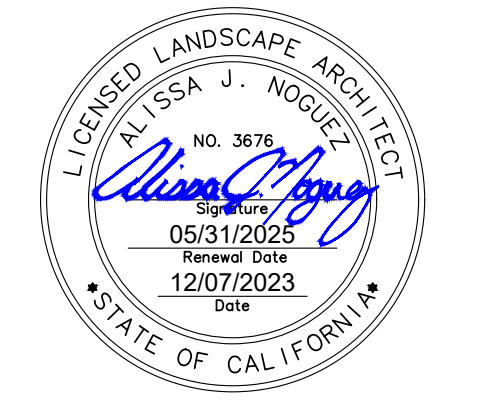
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**PROJECT**  
LUTHER BURBANK HIGH SCHOOL  
ATHLETIC FIELDS REPLACEMENT

3500 FLORIN ROAD  
SACRAMENTO, CA 95823

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

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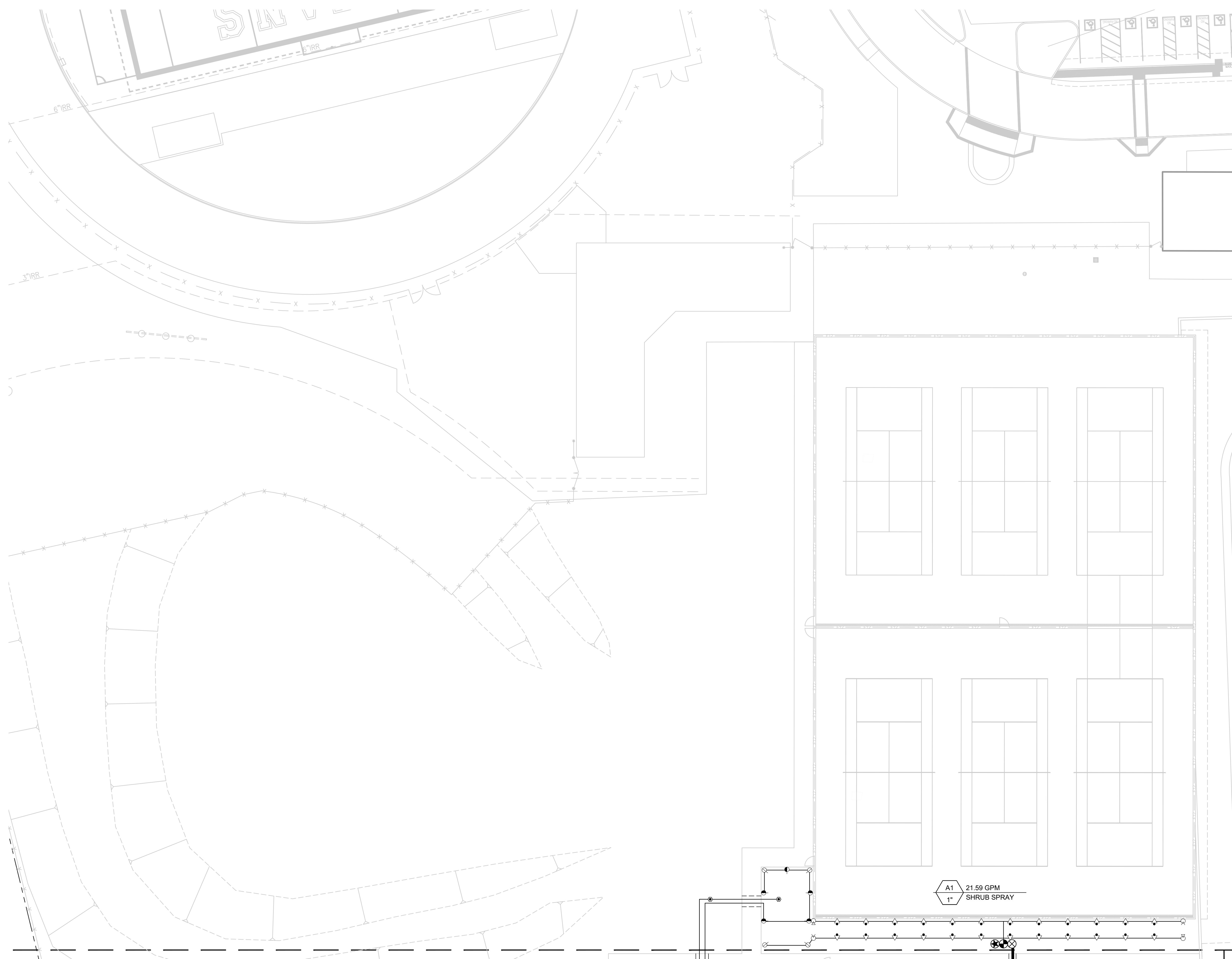
**TITLE**  
CONSTRUCTION  
DETAILS

SHEET  
L-56F

ANLA PROJECT NO. \_\_\_\_\_ 2318



0.14" = 1' SCALE ACCORDINGLY  
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**IRRIGATION NOTES**

- 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.
- CONTRACTOR SHALL BECOME FAMILIAR WITH THE LOCATION OF EXISTING AND PROPOSED UNDERGROUND SERVICES. CONTACT UNDERGROUND SERVICE ALERT (USA) AT (800) 842-2444 PRIOR TO BEGINNING WORK. CONTACT OWNER'S REPRESENTATIVE SHOULD ANY CONFLICTS ARISE.
- 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.
- THIS SYSTEM IS DESIGNED TO OPERATE AT 100 PSI AND 110 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.
- 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.
- CONTRACTOR SHALL COORDINATE IRRIGATION INSTALLATION WITH OTHER TRADES. CONTRACTOR TO COORDINATE AND VERIFY ALL SLEEVING, PIPING, ELECTRICAL SUPPLY, POINT OF CONNECTION, ETC.
- 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.
- LATERAL LINES TO BE SIZED PER PIPE SIZING CHART.
- 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.
- 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.
- 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.
- REFER TO SPECIFICATIONS SECTION AND IRRIGATIONS DETAILS ON SHEET L-501 & L-502.

**IRRIGATION LEGEND**

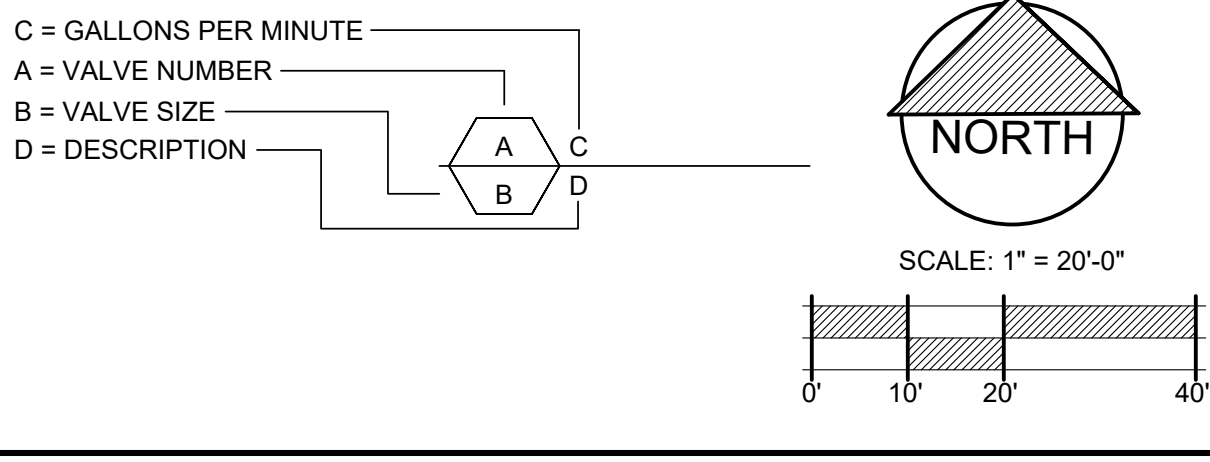
SYM	MODEL	MANUF.	DESCRIPTION	NOZZLE	GPM	PSI	RAD
<b>BUBBLER</b>							
●	RZWS-18-25-CV	HUNTER	TREE BUBBLER, (2) PER TREE, INSTALL PER DETAIL	-	0.25	30	-
<b>TURF ROTOR</b>							
⊙	I-40-06-SS-08-90	HUNTER	TURF ROTOR, 6" POP-UP, QUARTER ARC	8	8.4	50	45'
⊙	I-40-06-SS-15-180	HUNTER	TURF ROTOR, 6" POP-UP, 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	1.2	25	29'
⊙	I-20-06-SS-BLUE-180	HUNTER	TURF ROTOR, 6" POP-UP, HALF ARC	3.0	2.2	25	35'
⊙	I-20-06-SS-BLUE-360	HUNTER	TURF ROTOR, 6" POP-UP, FULL ARC	2.0	2.0	25	33'
<b>TURF SPRAY</b>							
▽	PROS-12-PRS-40-CV-MP815	HUNTER	13' RADIUS 180° ARC SHRUB SPRAY, 12" POP-UP	.75	.75	30	13'
▽	PROS-12-PRS-40-CV-MP815	HUNTER	13' RADIUS 90° ARC SHRUB SPRAY, 12" POP-UP	.42	.42	30	13'
<b>SHRUB SPRAY / MP ROTATOR</b>							
▽	PROS-12-PRS-40-CV-MPSS-530	HUNTER	SIDE STRIP SHRUB SPRAY, 12" POP-UP	0.44	0.44	40	5'
▽	PROS-12-PRS-40-CV-MPLCS-515	HUNTER	LEFT CORNER SHRUB SPRAY, 12" POP-UP	0.22	0.22	40	5'
▽	PROS-12-PRS-40-CV-MPRCS-515	HUNTER	RIGHT CORNER SHRUB SPRAY, 12" POP-UP	0.22	0.22	40	5'
▽	PROS-12-PRS-40-CV-MP800	HUNTER	10' RADIUS 90° ARC SHRUB SPRAY, 12" POP-UP	0.23	0.23	40	10'
▽	PROS-12-PRS-40-CV-MP800	HUNTER	10' RADIUS 180° ARC SHRUB SPRAY, 12" POP-UP	0.42	0.42	40	10'
▽	PROS-12-PRS-40-CV-MP815	HUNTER	15' RADIUS 90° ARC SHRUB SPRAY, 12" POP-UP	0.49	0.49	40	15'
▽	PROS-12-PRS-40-CV-MP815	HUNTER	15' RADIUS 180° ARC SHRUB SPRAY, 12" POP-UP	0.93	0.93	40	15'
▽	PROS-12-PRS-40-CV-MP800SR	HUNTER	6' RADIUS 90° ARC SHRUB SPRAY, 12" POP-UP	0.22	0.22	40	6'
<b>VALVES</b>							
⊠	-	-	EXISTING DESIGNATED IRRIGATION WATER METER	-	-	-	-
⊠	-	-	EXISTING DOMESTIC BACKFLOW PREVENTER TO REMAIN	-	-	-	-
⊠	-	-	EXISTING MASTER CONTROL VALVE	-	-	-	-
⊠	-	-	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-AS-ADJC	HUNTER	PRESSURE REGULATING ELECTRONIC REMOTE CONTROL VALVE WITH TWO-WIRE DECODER	-	-	-	-
⊠	HQ-SLRC	HUNTER	1" QUICK COUPLER VALVE WITH CAP, 1 KEY AND HOSE SWIVEL FOR EVERY 5 VALVES INSTALLED	-	-	-	-
<b>CONTROLS / SENSORS</b>							
⊠	-	-	EXISTING IRRIGATION CONTROLLER	-	-	-	-
⊠	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	-	-	-	-
⊠	-	-	BOOSTER PUMP, ATLAS SERIES FROM PRECISION PUMPING SYSTEMS, 4", 480 V, 3-PHASE WITH ENCLOSURE, MODEL# CB##V1C020X00325-065XXX483ONS-4. COORDINATE WITH PPS REPRESENTATIVE MATT PURDY: (208) 325-5300	-	-	-	-
⊠	-	-	SPLICE BOX, PLASTIC IN LANDSCAPE, CONCRETE IN PAVING	-	-	-	-
<b>PIPING</b>							
---	-	-	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 LEMCO FITTINGS, PER MANUFACTURER RECOMMENDATIONS, ON ALL MAINLINE 2.5" AND LARGER	-	-	-	-
---	-	-	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:**

- 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.
- CONTRACTOR SHALL SCHEDULE OR PHASE WORK AS APPROPRIATE WITH GENERAL CONTRACTOR'S OVER-ALL PROJECT SCHEDULING.
- 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 SOG.
- CONTRACTOR SHALL NOTIFY AND COORDINATE WITH CAMPUS LANDSCAPE SUPERVISOR IN ADVANCE OF PLANNED DISRUPTIONS OF IRRIGATION WATER SERVICE.
- EXISTING FIELD IRRIGATION MAINLINE IS TRANSITE PIPE, ABANDON IN PLACE OR REMOVE IF NECESSARY AND REPLACE WHERE PLAN SHOWS IT TO REMAIN TO SERVICE EXISTING TO REMAIN LANDSCAPE AREAS

**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"
111 - 189.99 GPM	4"



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PROJECT  
**LUTHER BURBANK HIGH SCHOOL ATHLETIC FIELDS REPLACEMENT**

3500 FLORIN ROAD  
 SACRAMENTO, CA 95823

CLIENT  
 SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

5735 47TH AVENUE, SACRAMENTO, CA 95824

ISSUED

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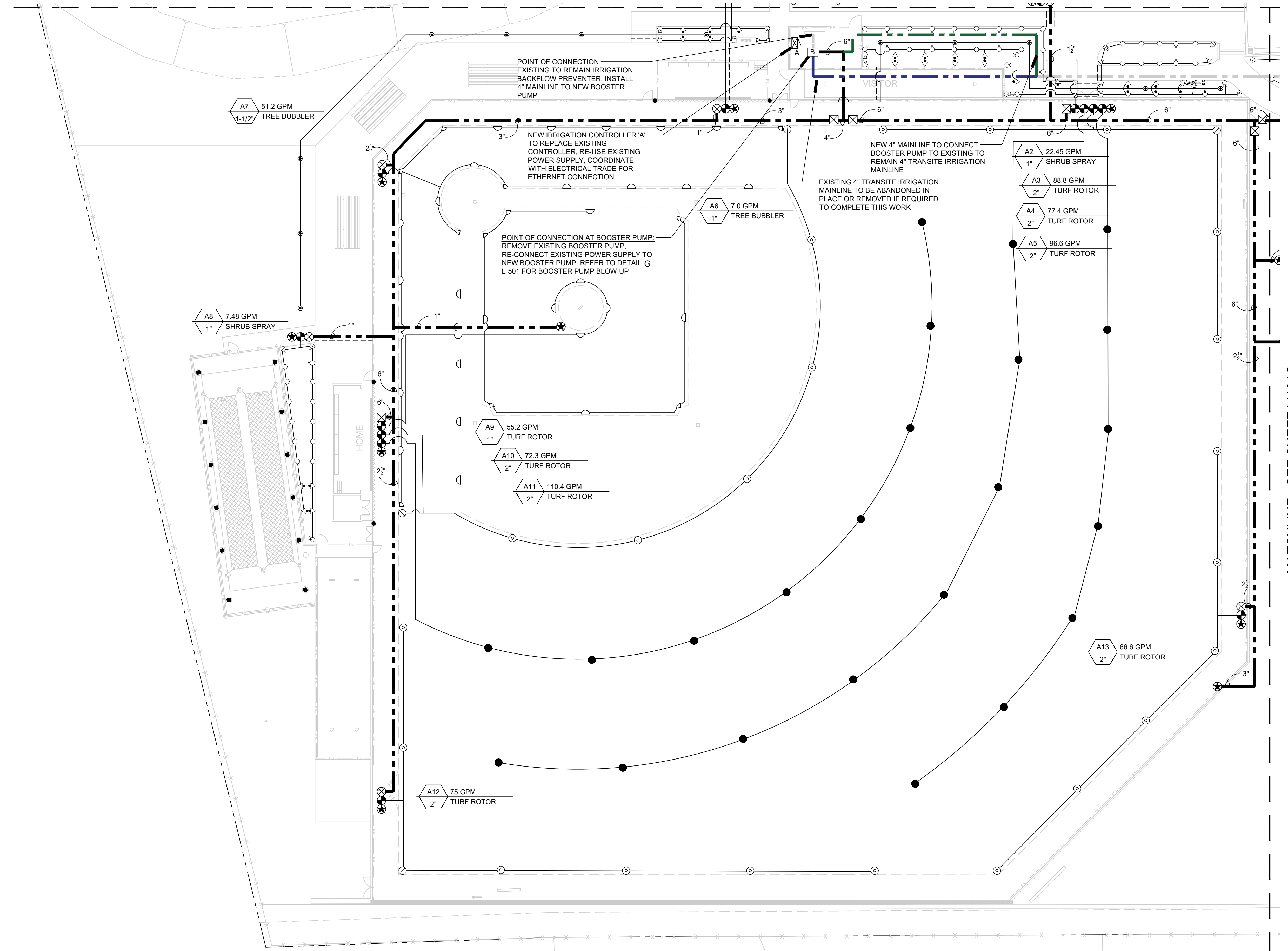
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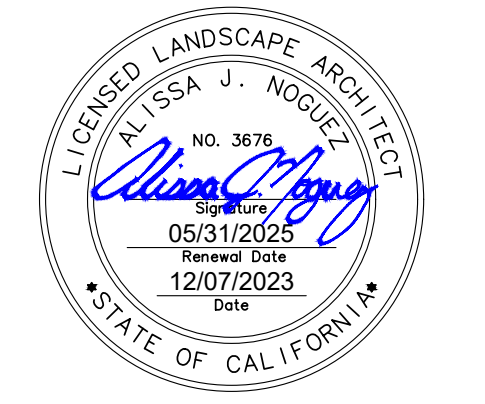
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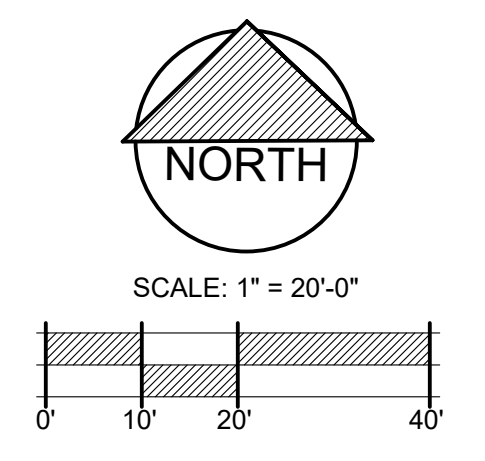
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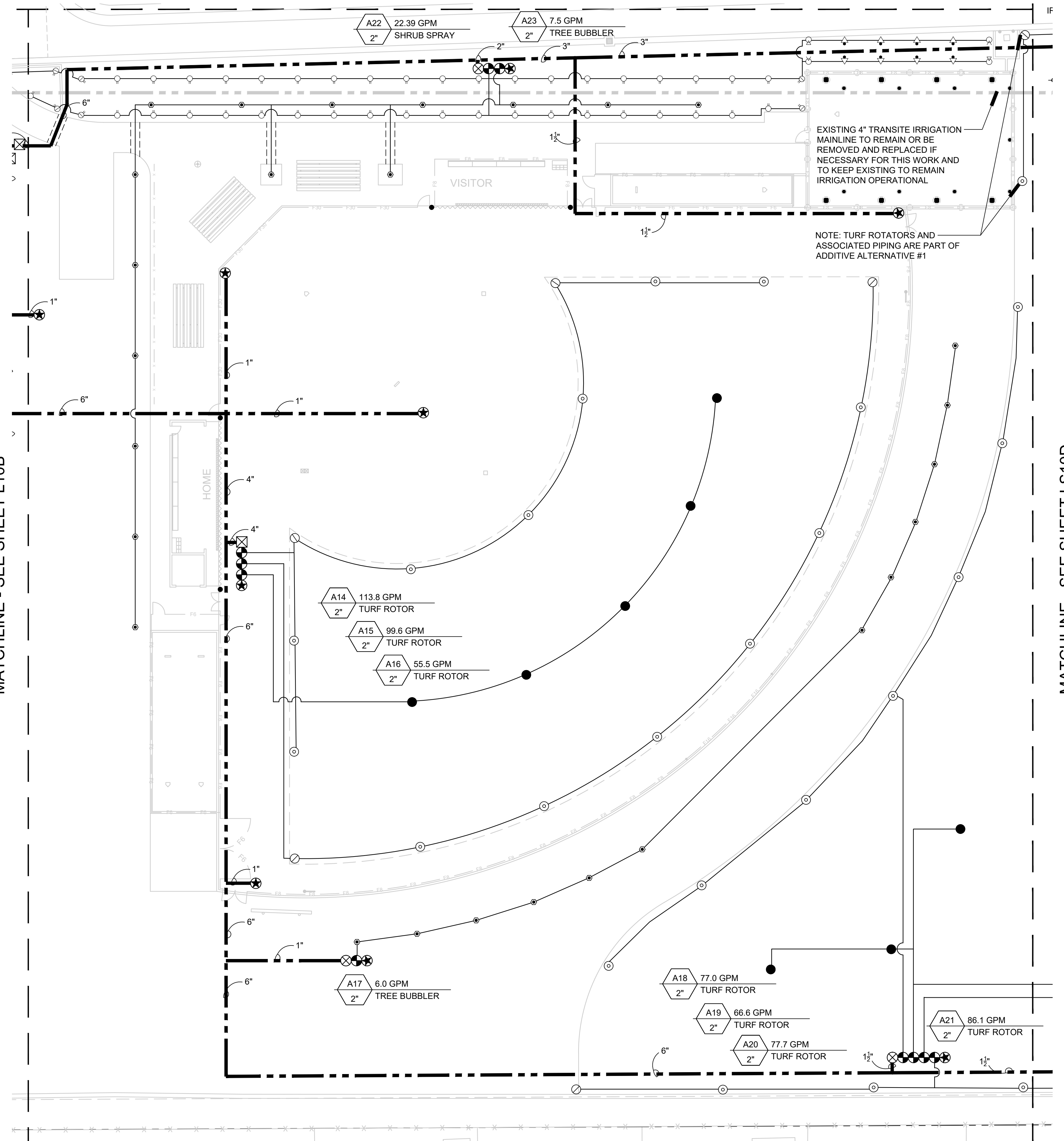
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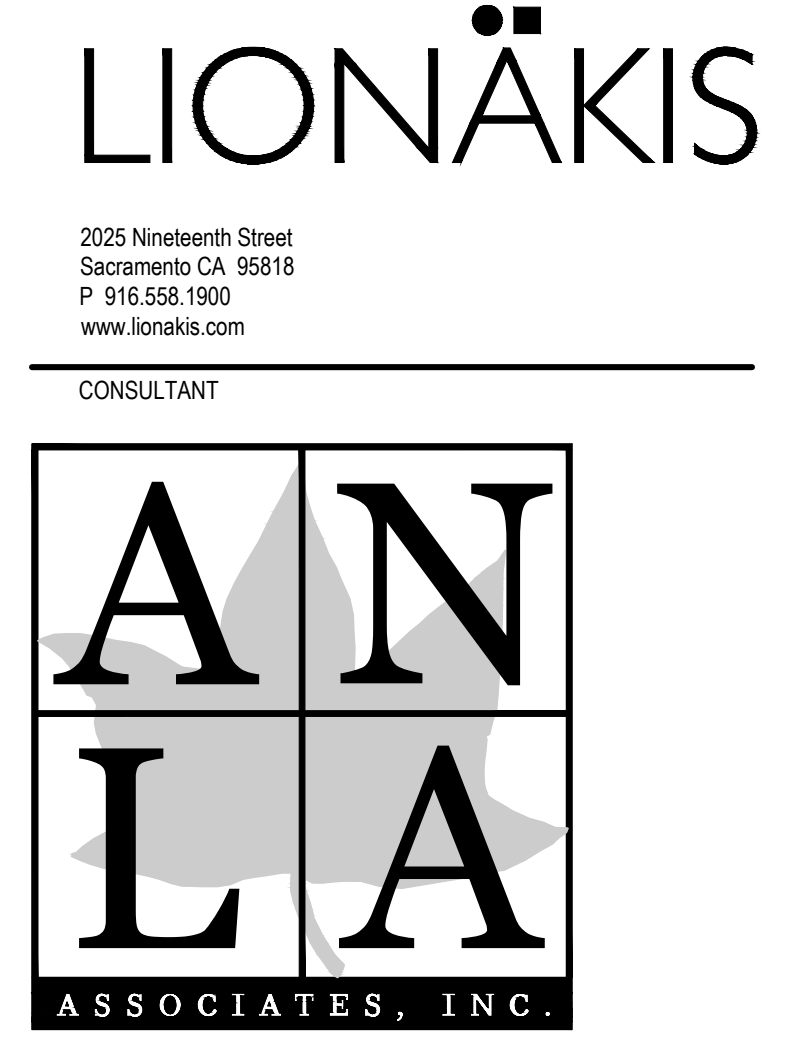


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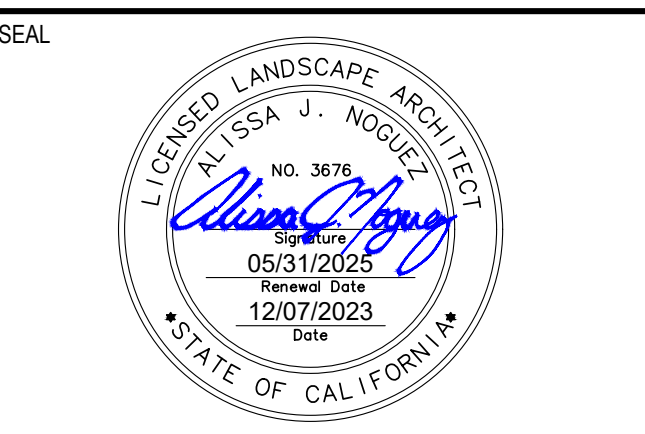
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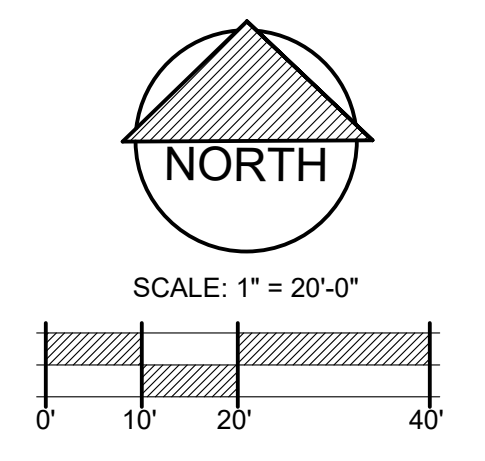
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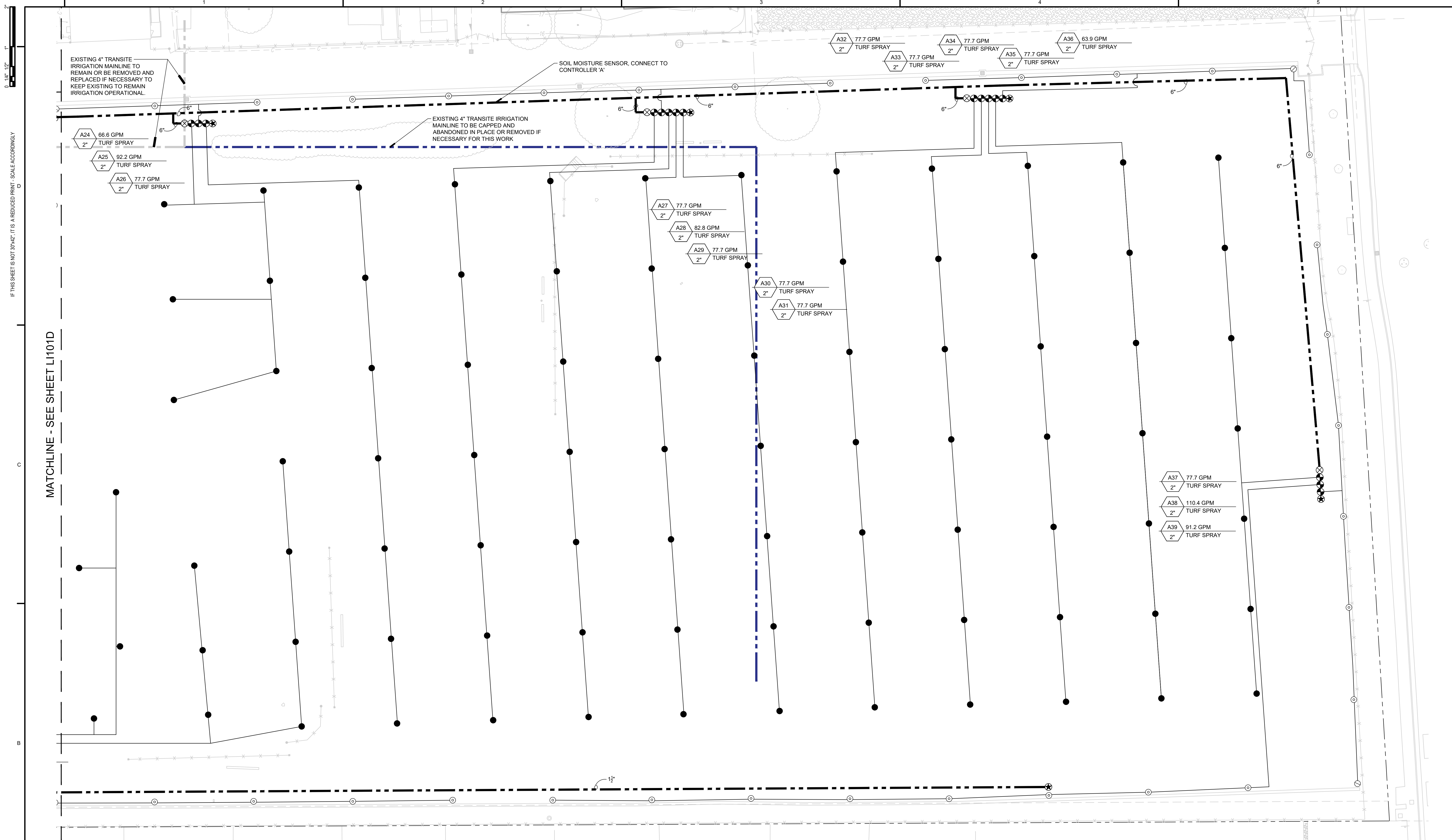
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IRRIGATION PLAN

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LEGEND

**BIDDING INSTRUCTIONS:**  
TURF ROTORS AND ASSOCIATED MAINLINES, VALVES, AND LATERALS SHOWN ON THIS SHEET SHALL BE ADDITIVE ALTERNATE #1. 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 (6) EXISTING ROTORS

**NOTE:**  
EXISTING FIELD IRRIGATION MAINLINE IS TRANSITE PIPE.

# LIONAKIS

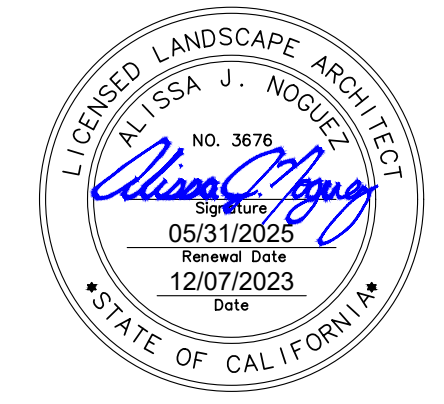
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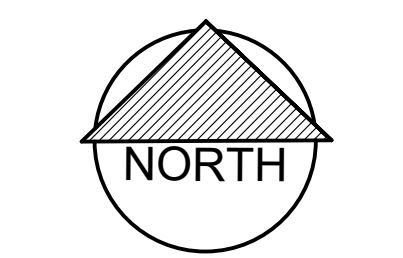
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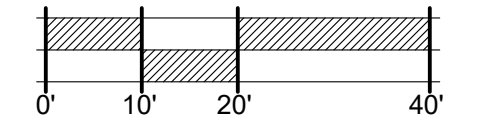
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SHEET  
**LI101D**

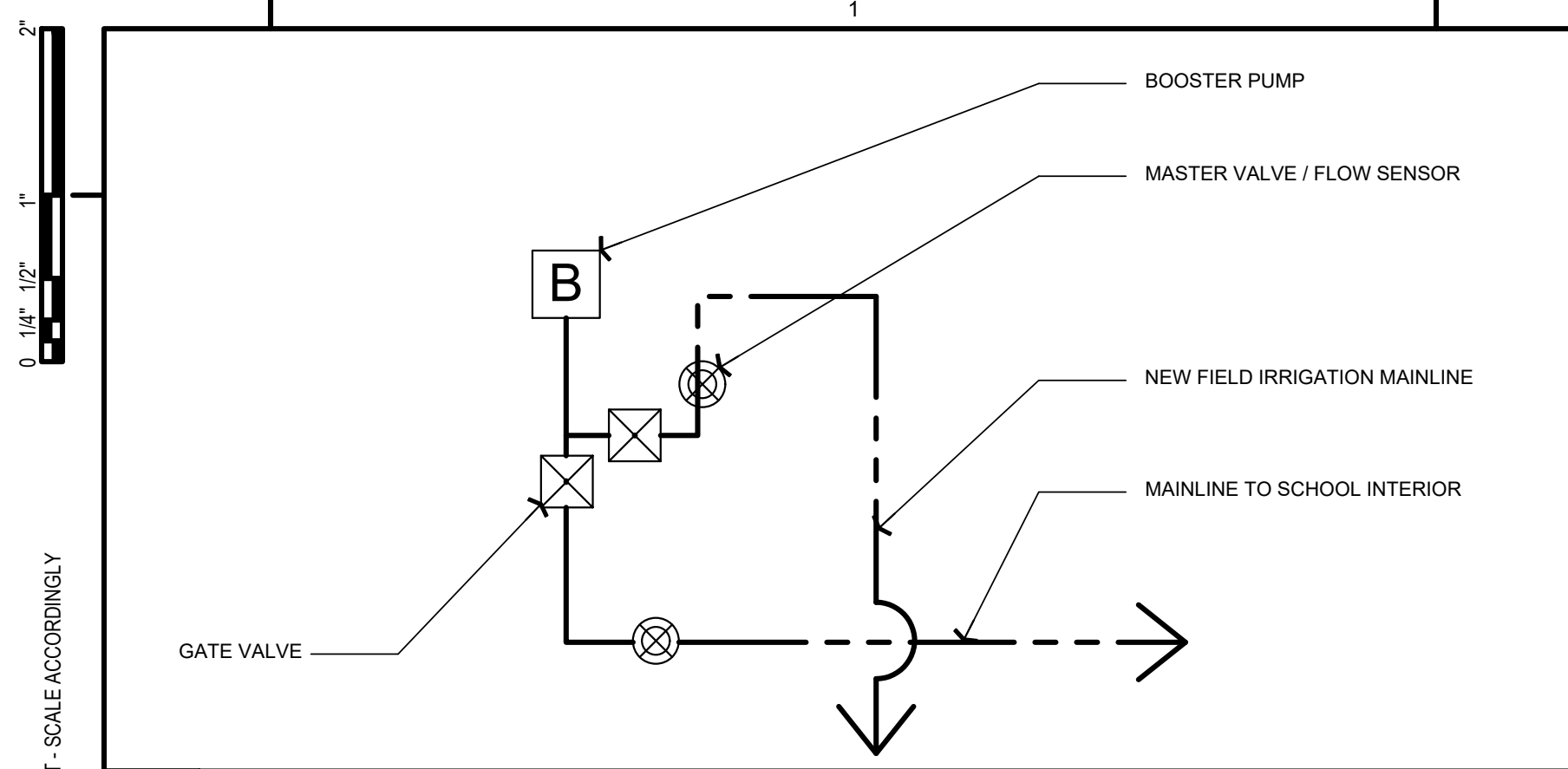
ANLA PROJECT NO. \_\_\_\_\_ 2318



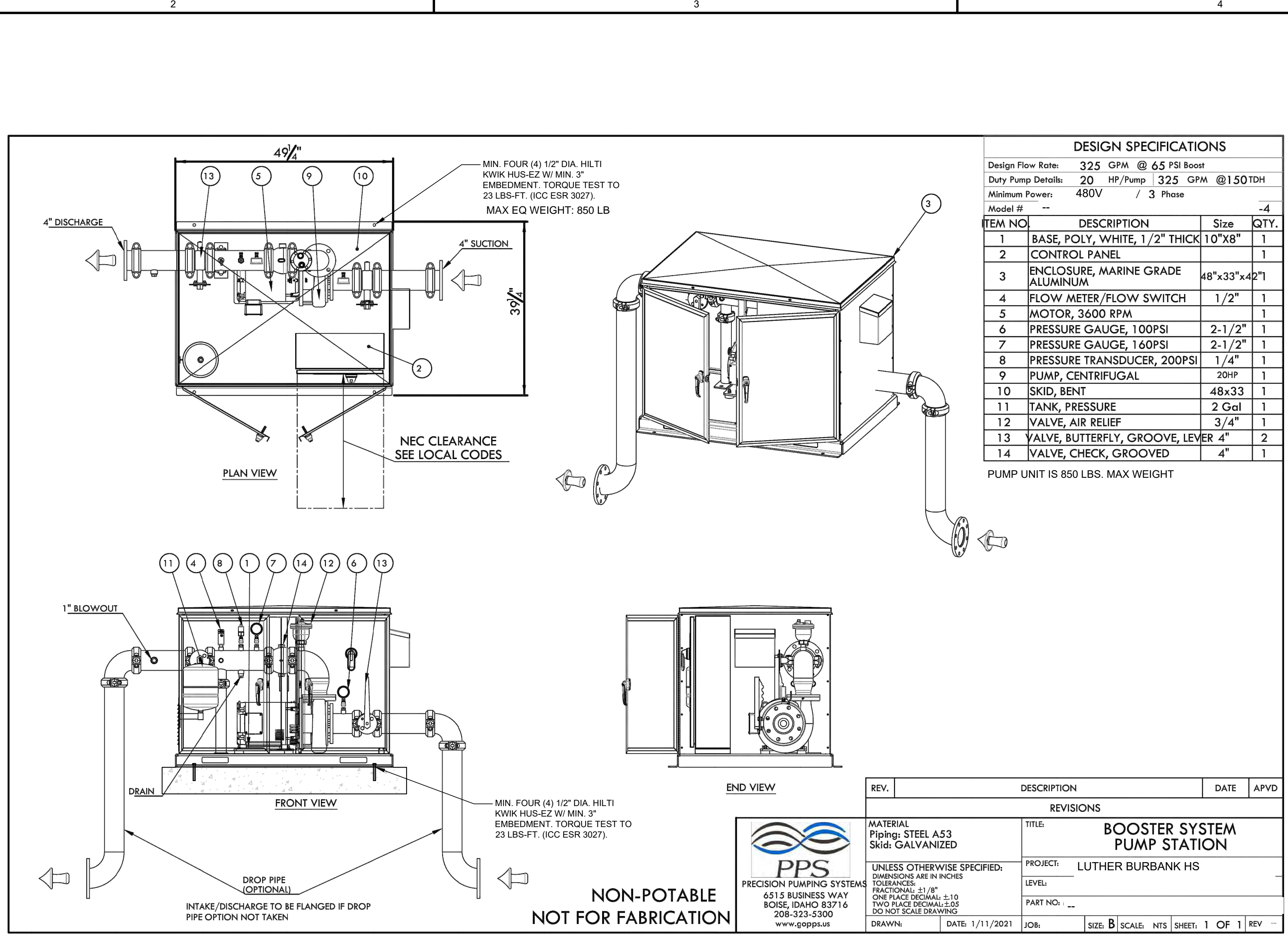
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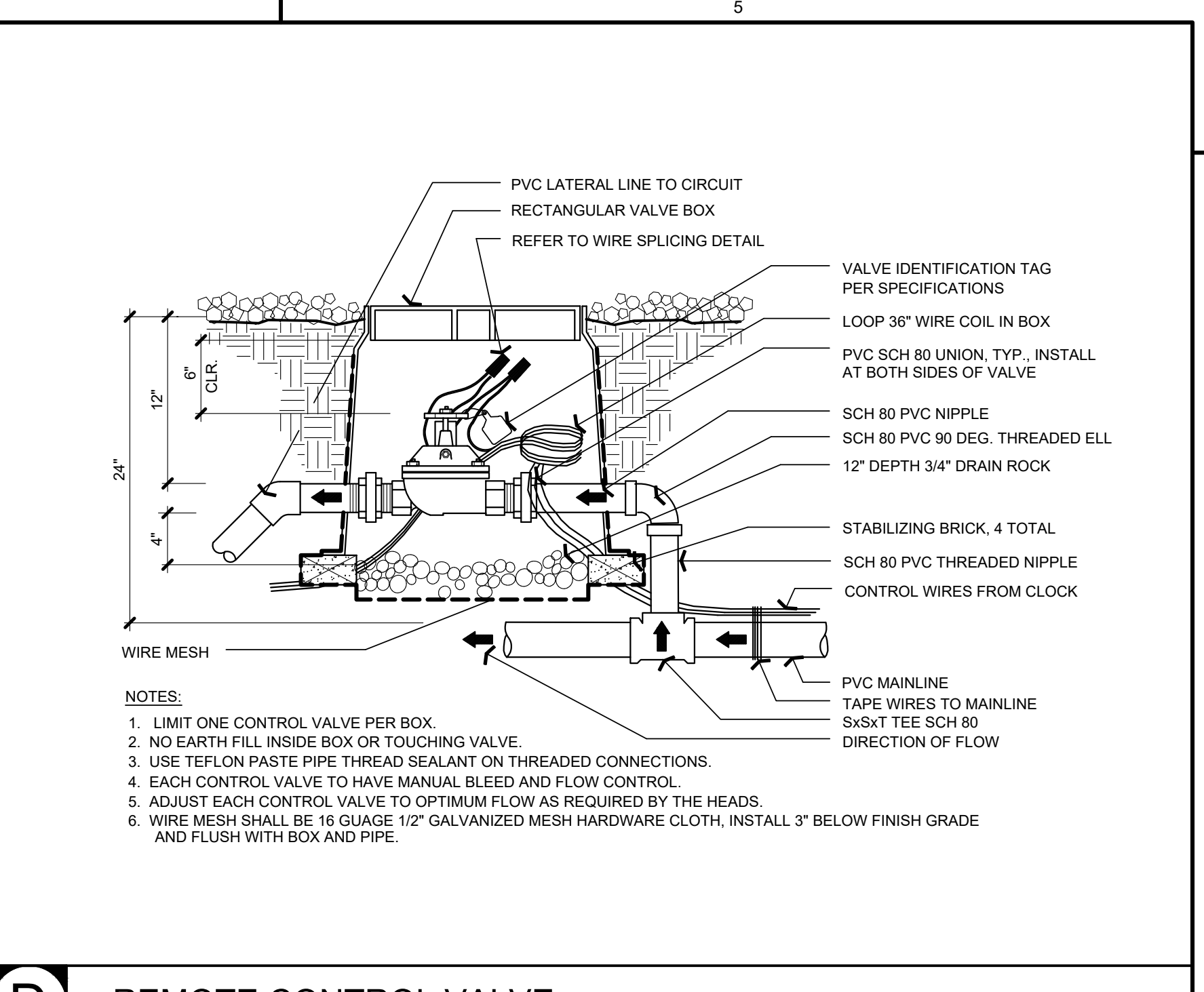
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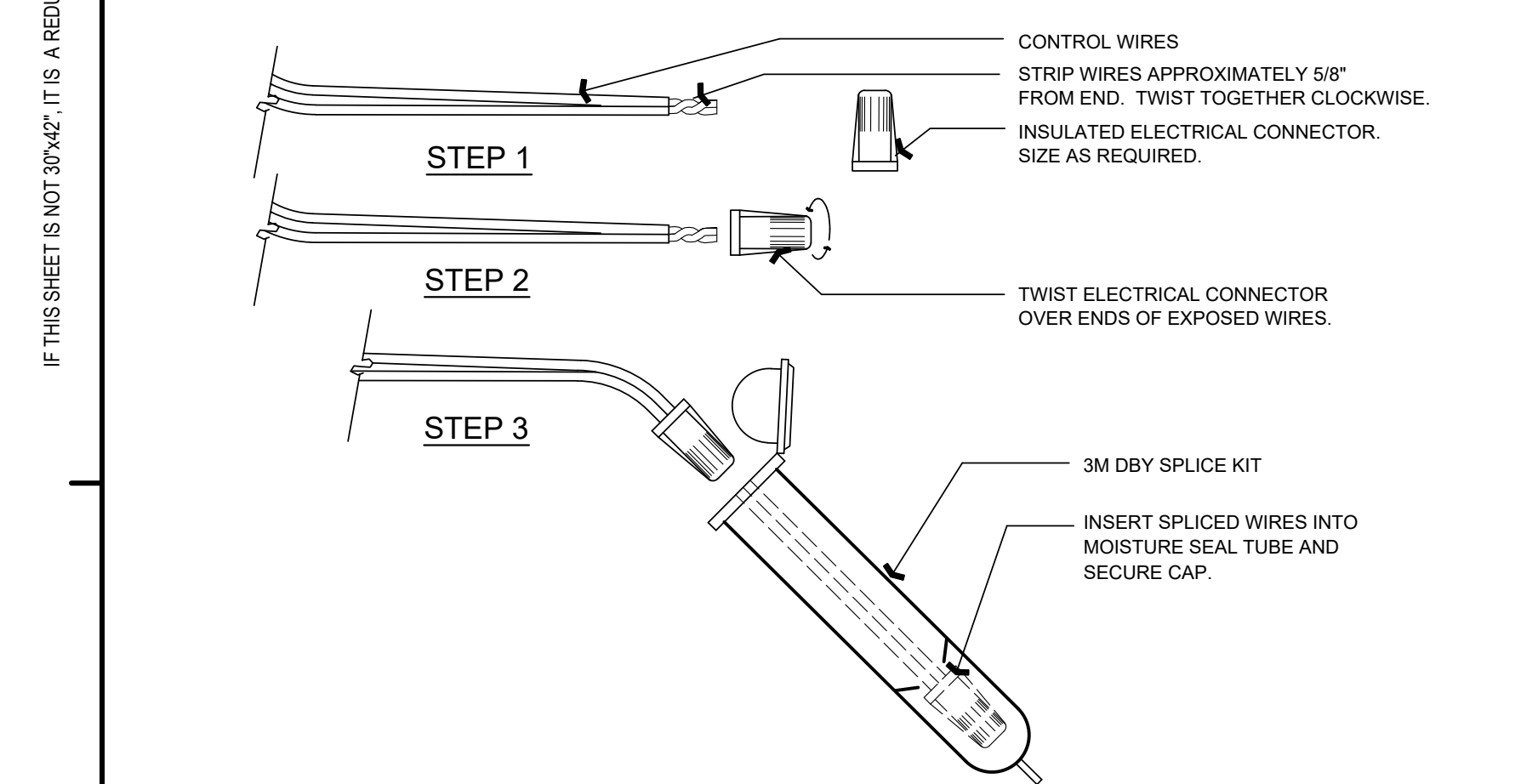
**N BOOSTER PUMP BLOW-UP** SCALE: NTS



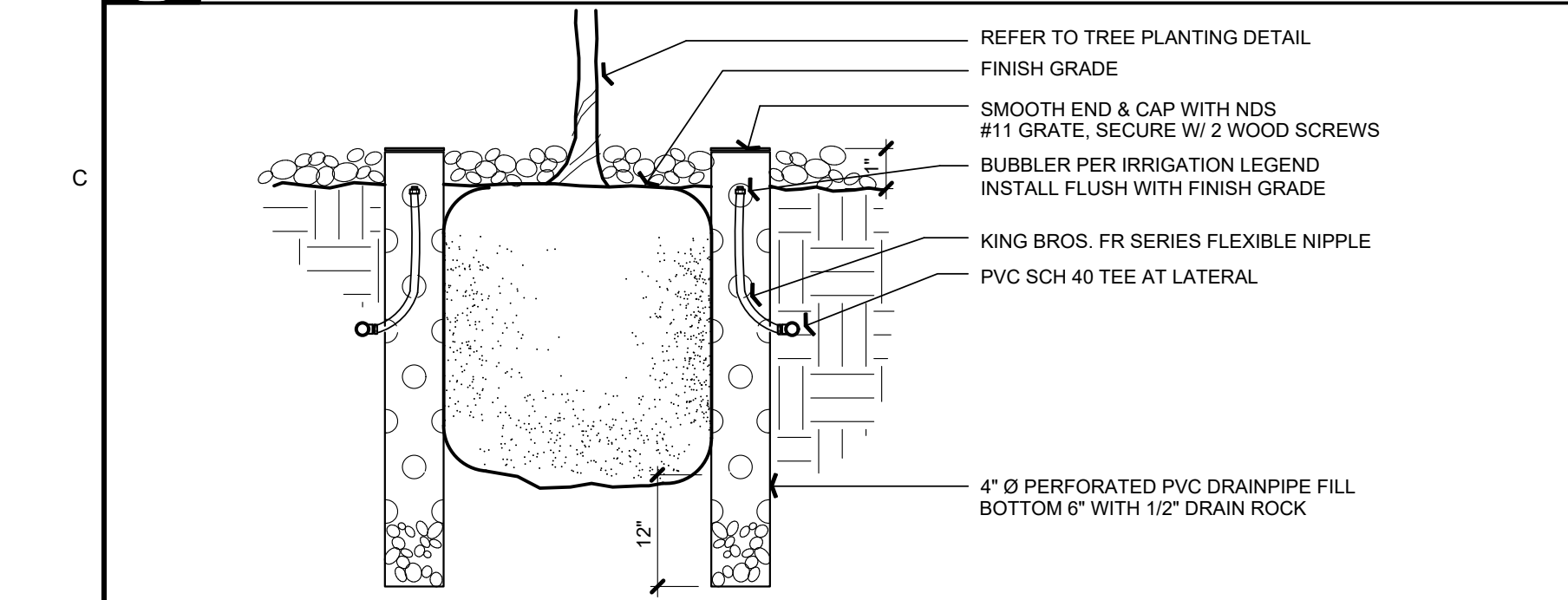
**G BOOSTER PUMP** SCALE: NTS



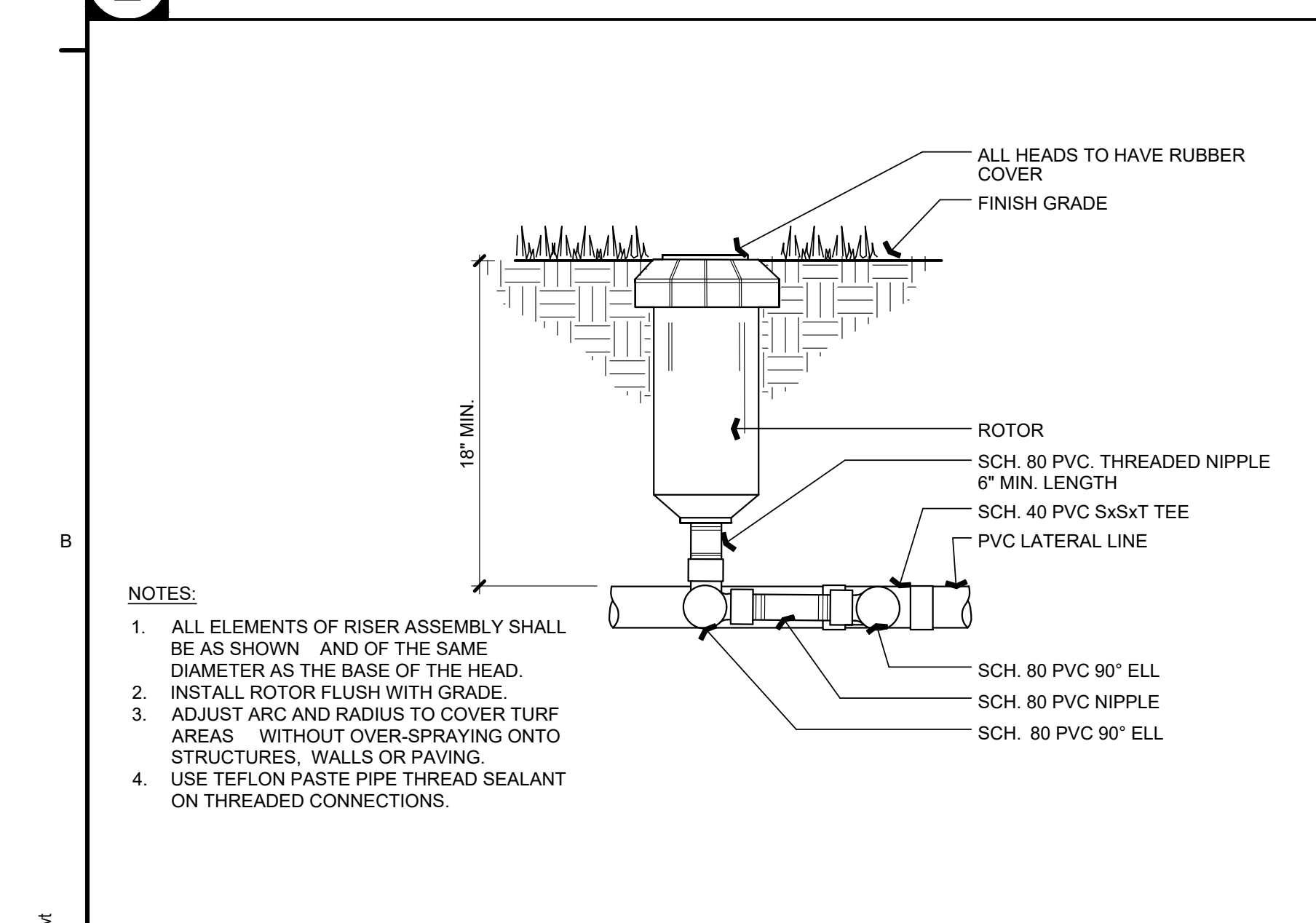
**D REMOTE CONTROL VALVE** SCALE: NTS



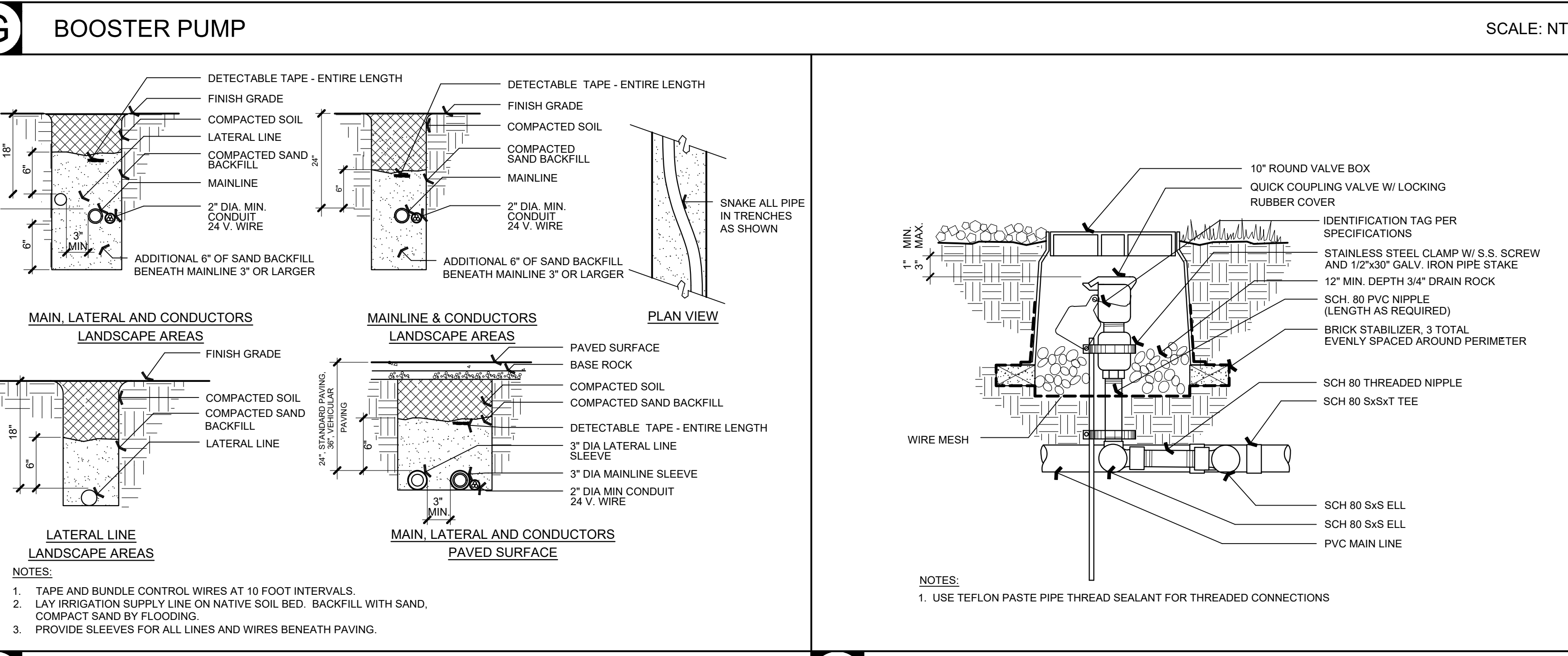
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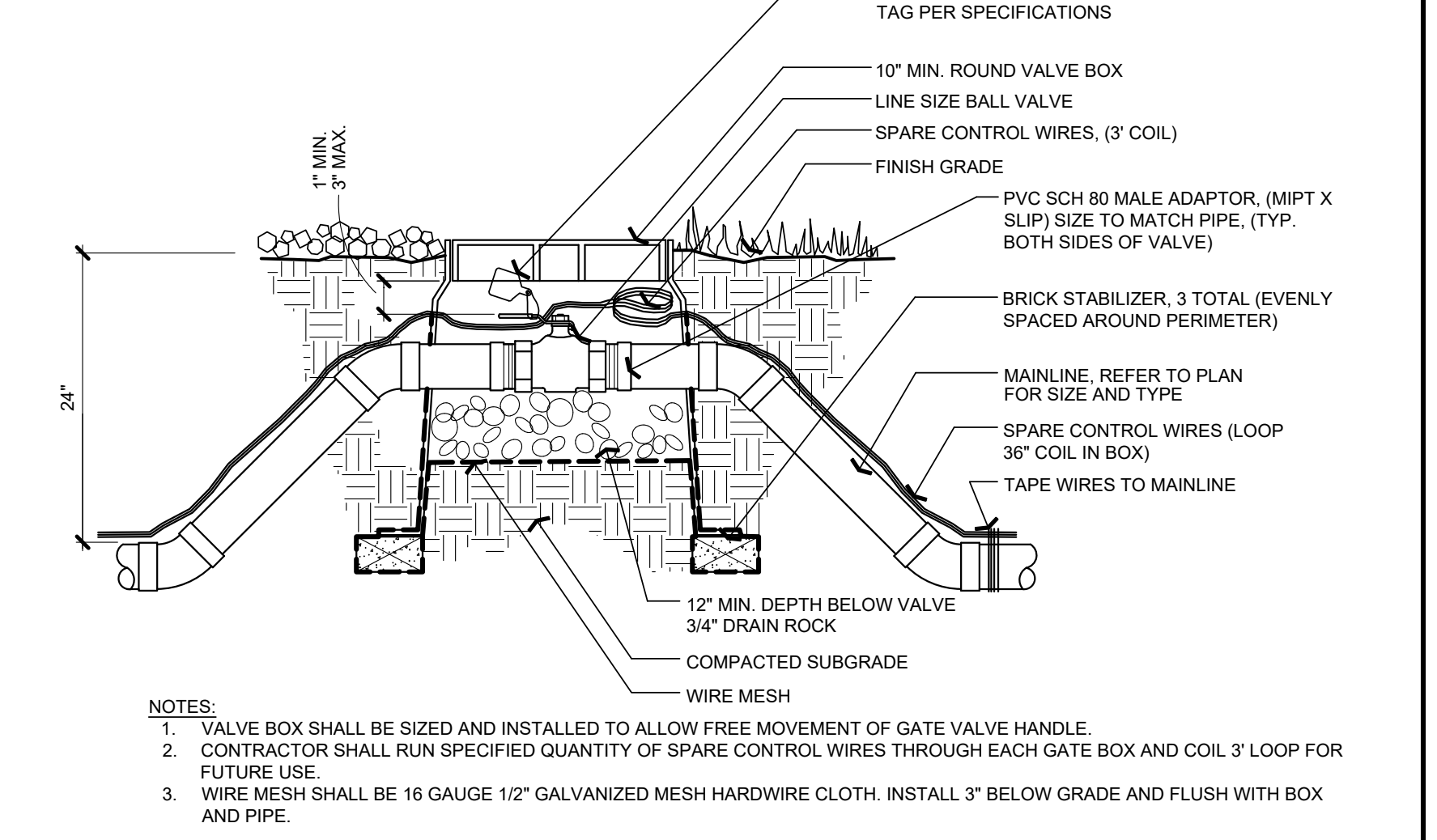
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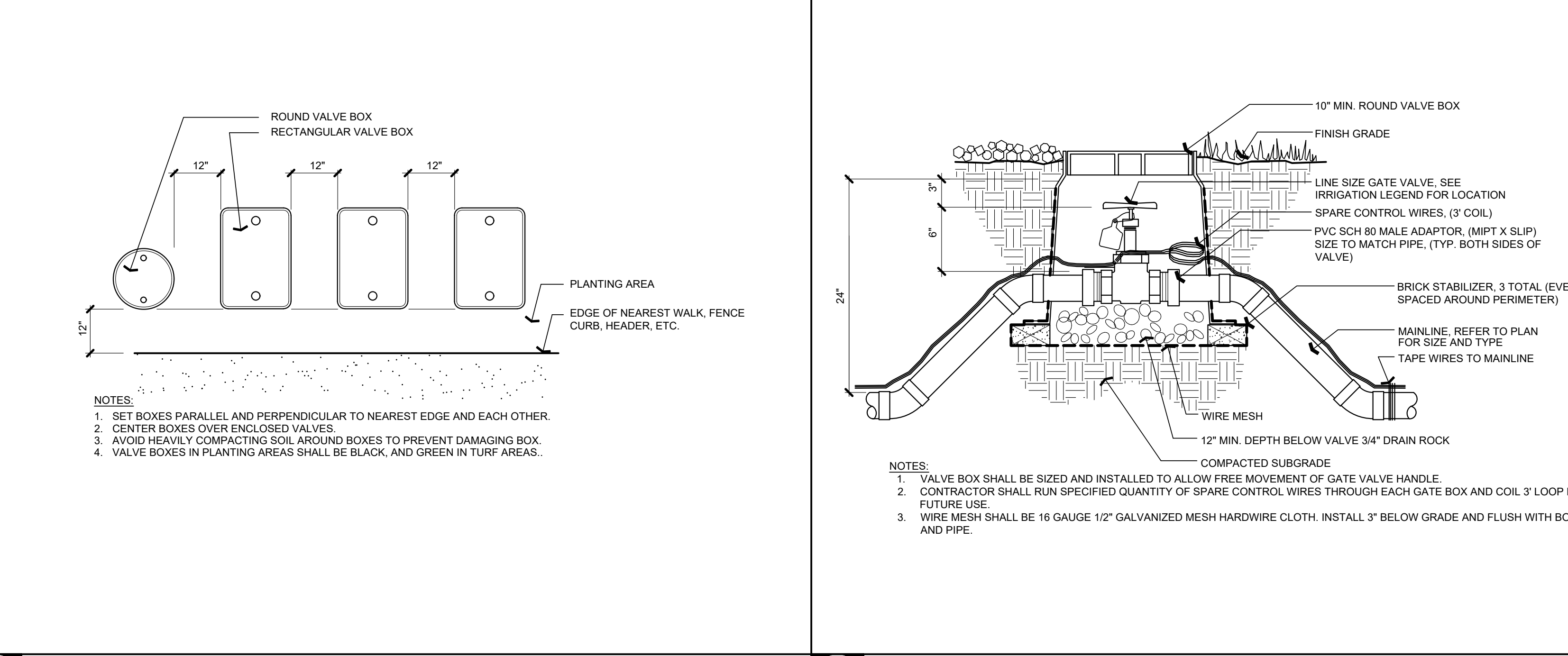
**K TURF ROTOR** SCALE: NTS



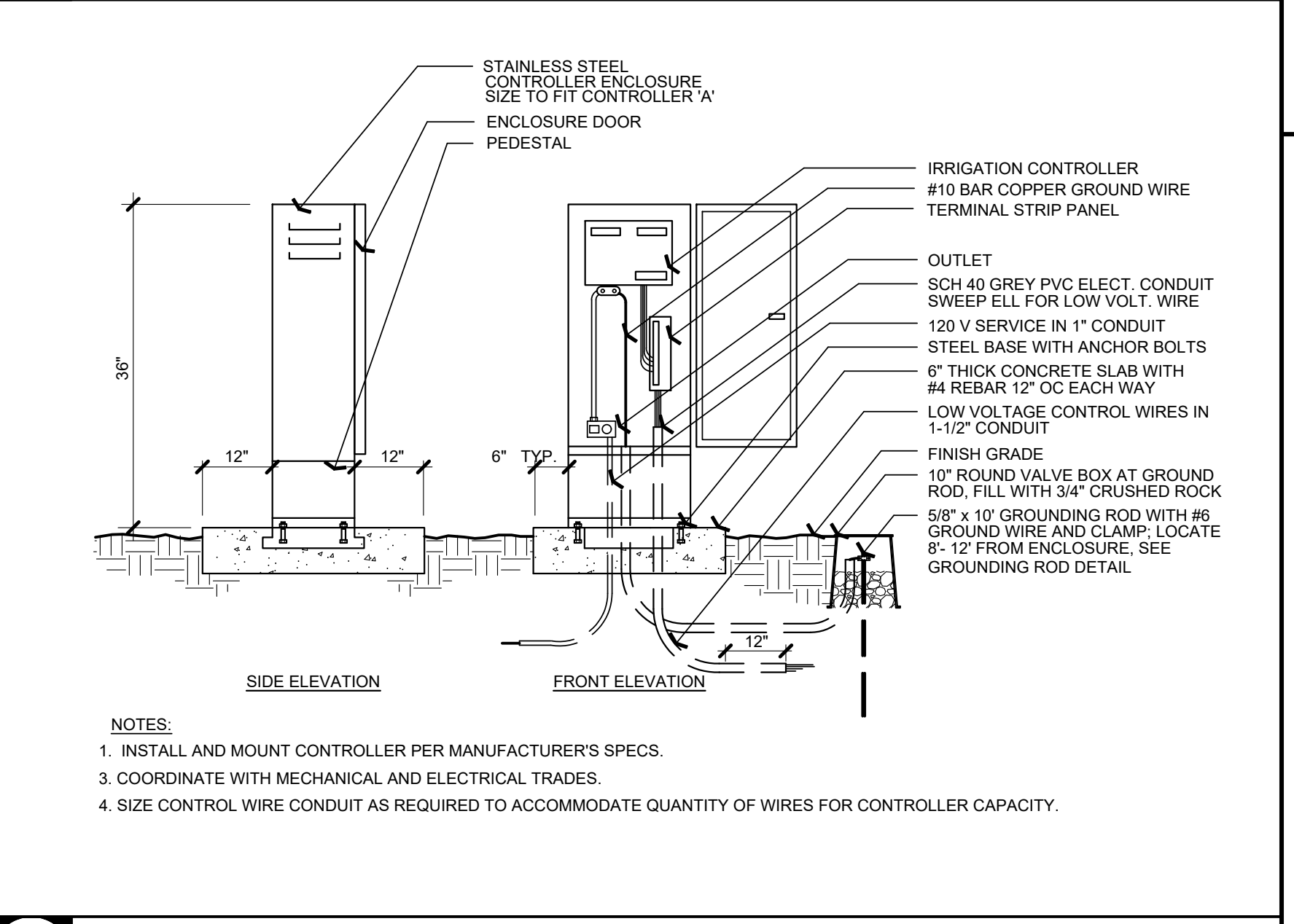
**F QUICK COUPLING VALVE** SCALE: NTS



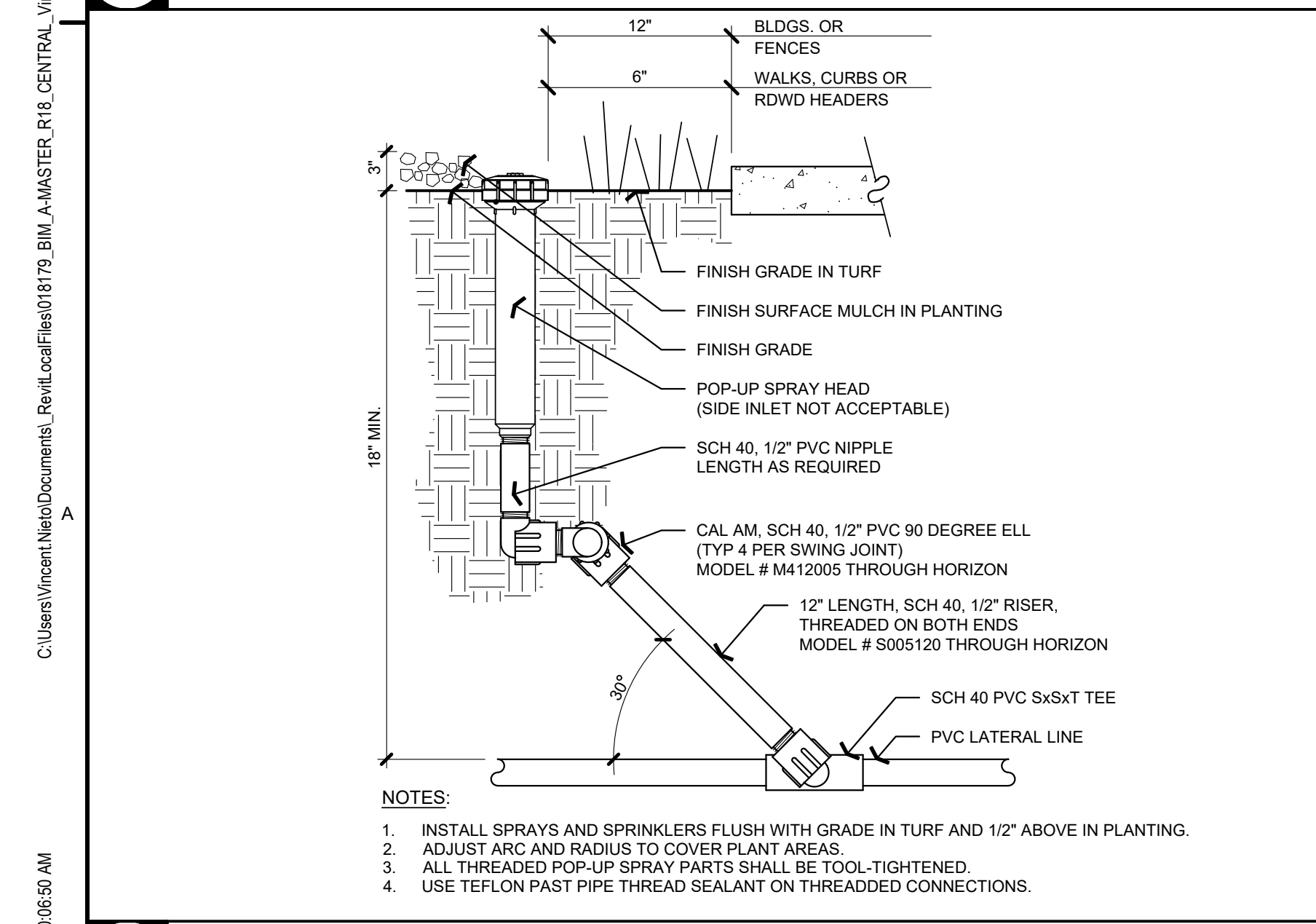
**C BALL VALVE** SCALE: NTS



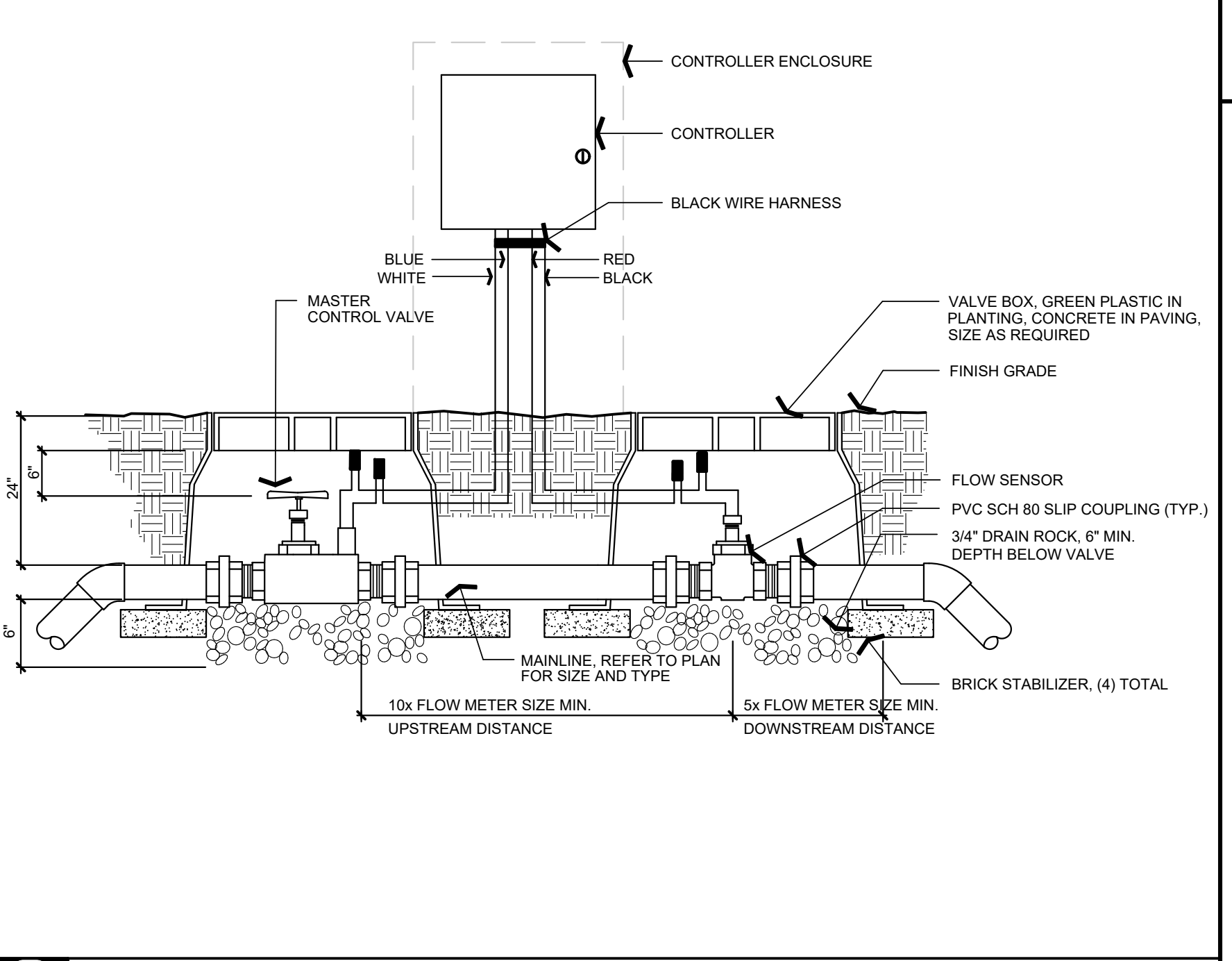
**E GATE VALVE** SCALE: NTS



**B PEDESTAL MOUNT CONTROLLER** SCALE: NTS



**J SHRUB POP-UP SPRAY** SCALE: NTS



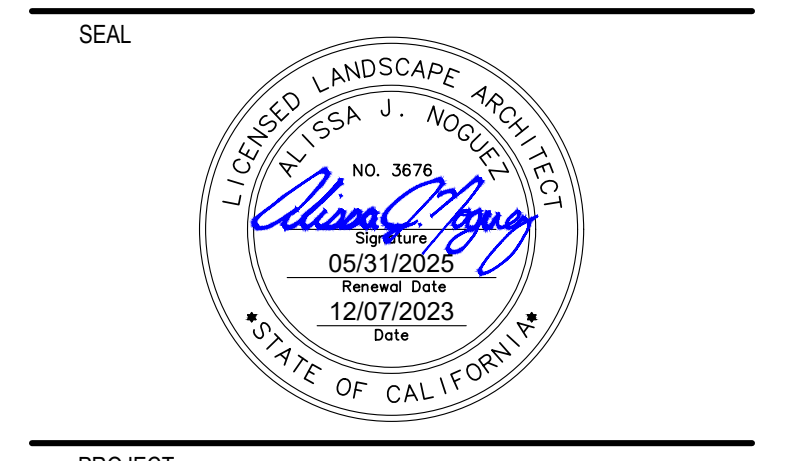
**A MASTER CONTROL VALVE AND FLOW SENSOR** SCALE: NTS

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P 916.558.1900  
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PROJECT  
**LUTHER BURBANK HIGH SCHOOL  
ATHLETIC FIELDS REPLACEMENT**

3500 FLORIN ROAD  
SACRAMENTO, CA 95823

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

ISSUED	MARK	DATE	DESCRIPTION
		08.10.2023	ISA INITIAL SUBMITTAL
		12.07.2023	BID SET - NOT DSA APPROVED

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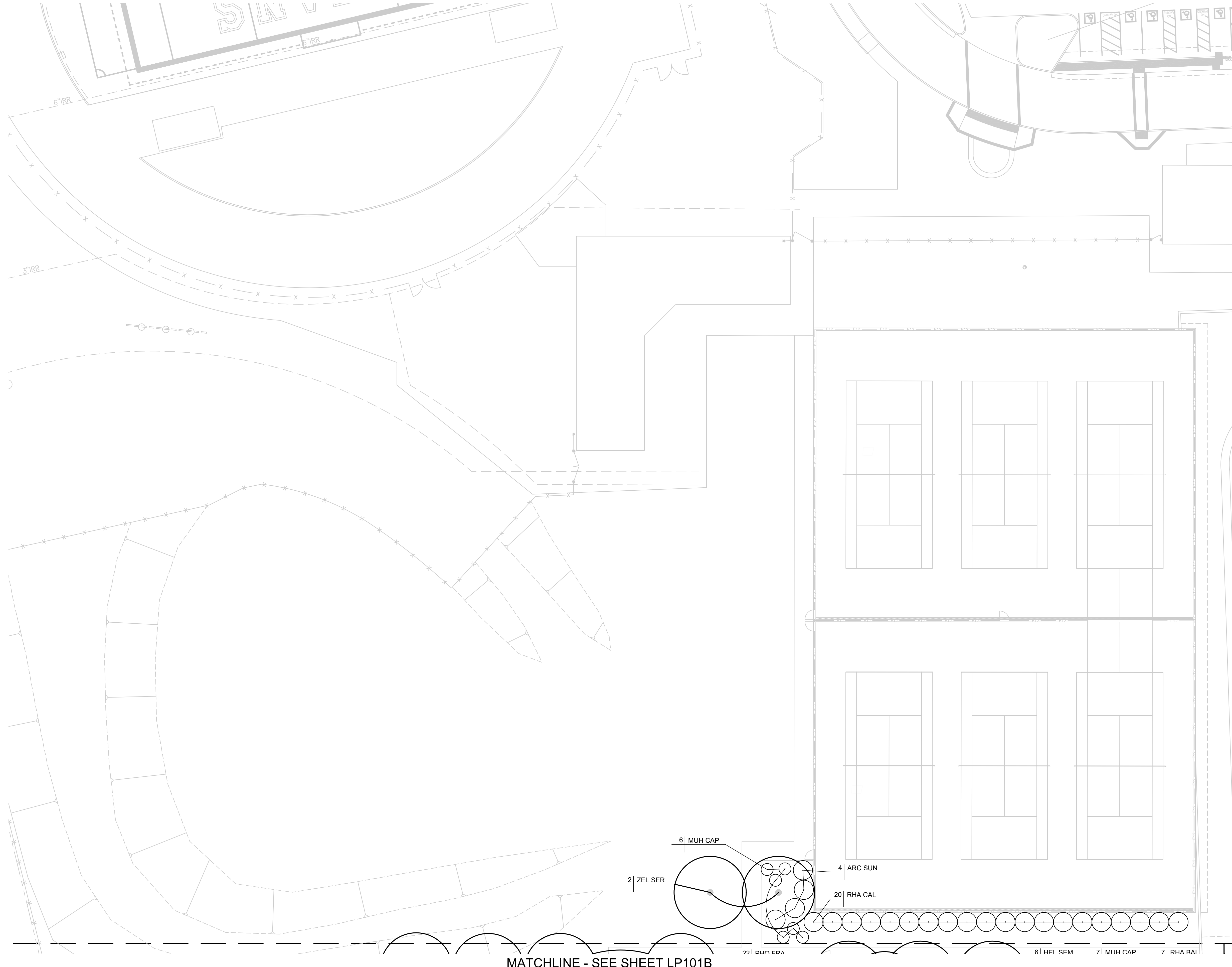
AGENCY

TITLE  
**IRRIGATION DETAILS**

SHEET  
**L-501**

ANLA PROJECT NO. 2318

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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" 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, 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-504 AND SPECIFICATIONS SECTIONS:  
 31 13 16 TREE PROTECTION  
 32 90 00 PLANTING  
 32 92 00 TURF PLANTING

**PLANT LEGEND**

SYMBOL	SIZE	BOTANICAL NAME	COMMON NAME	WATER NEEDS*
<b>TREES:</b>				
TIL COR	24" BOX	TILIA CORDATA 'GREENSPIRE'	GREENSPIRE LINDEN	MOD
ZEL SER	24" BOX	ZELKOVA SERRATA 'VILLAGE GREEN'	SAWTOOTH ZELKOVA	MOD
<b>SHRUBS:</b>				
ARC SUN	5 GAL	ARCTOSTAPHYLOS 'SUNSET'	SUNSET MANZANITA	LOW
CEA CEN	5 GAL	CEANOTHUS 'CENTENNIAL'	CENTENNIAL CEANOTHUS	LOW
HEL SEM	5 GAL	HELICTOTRICHON SEMPERVIRENS	BLUE OAT GRASS	LOW
MUH CAP	5 GAL	MUHLENBERGIA CAPILLARIS	PINK MUHLY	LOW
PHO BRO	5 GAL	PHORMIUM 'TENAX 'BRONZE BABY'	BRONZE NEW ZEALAND FLAX	MOD
PHO FRA	5 GAL	PHOTINIA X 'FRASER'	RED TIPPED PHOTINIA	LOW
RHA CAL	5 GAL	RHAMNUS CALIFORNICA	CALIFORNIA COFFEEBERRY	LOW
RHA BAL	5 GAL	RHAPHIOLEPIS INDICA 'BALLERINA'	BALLERINA INDIAN HAWTHORN	MOD

\*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**

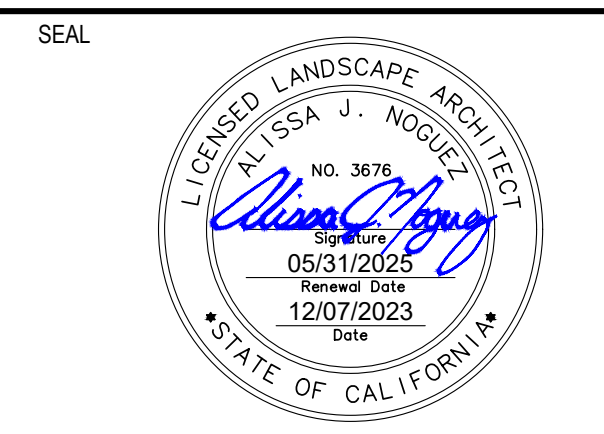
- SOD, TIFWAY 419 BERMUDA
- BARK MULCH ONLY
- SHOVEL-CUT EDGE TURF, SEE DETAIL D, L-502

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PROJECT  
**LUTHER BURBANK HIGH SCHOOL  
 ATHLETIC FIELDS REPLACEMENT**

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 SACRAMENTO, CA 95823

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

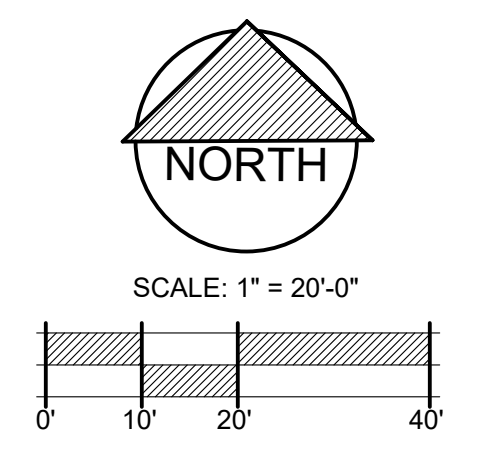
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-	12.07.2023	BID SET - NOT DSA APPROVED

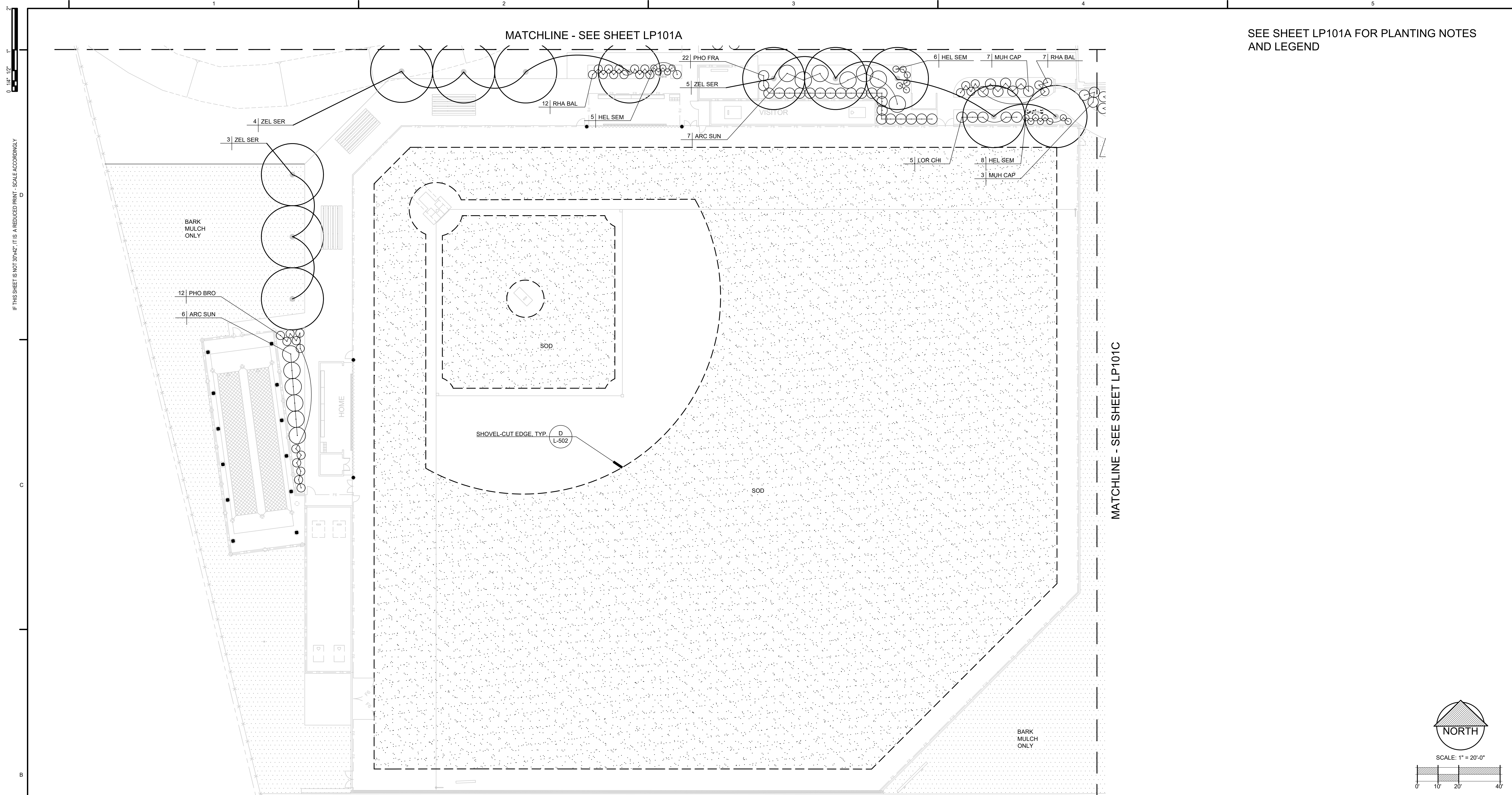
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AGENCY

TITLE  
**PLANTING PLAN**

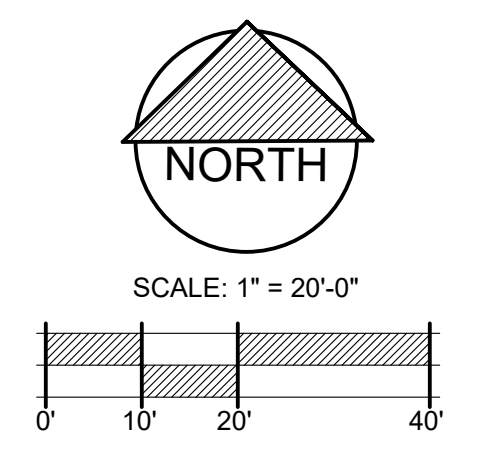
SHEET  
**LP101A**





SEE SHEET LP101A FOR PLANTING NOTES AND LEGEND

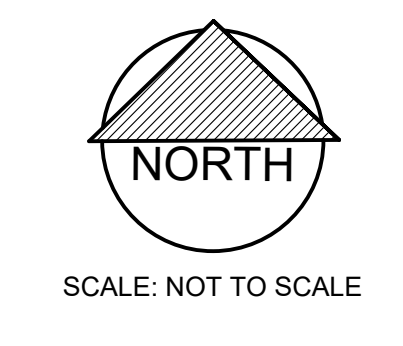
MATCHLINE - SEE SHEET LP101C



**SHADE CALCULATIONS**

HARDSCAPE SHADE CALCULATIONS  
 HARDSCAPE AREA = 22,439 SF.  
 REQUIRED SHADE = 4,487 SF.  
 PROVIDED SHADE = 7,305 SF.

NON-RECREATIONAL LANDSCAPE SHADE CALCULATIONS  
 LANDSCAPE AREA = 12,997 SF.  
 REQUIRED SHADE = 2,599 SF.  
 PROVIDED SHADE = 5,963 SF.



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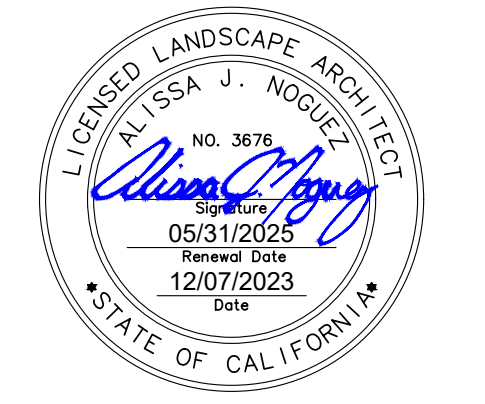
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TITLE  
**PLANTING PLAN**

SHEET  
**LP101B**

ANLA PROJECT NO. 2318

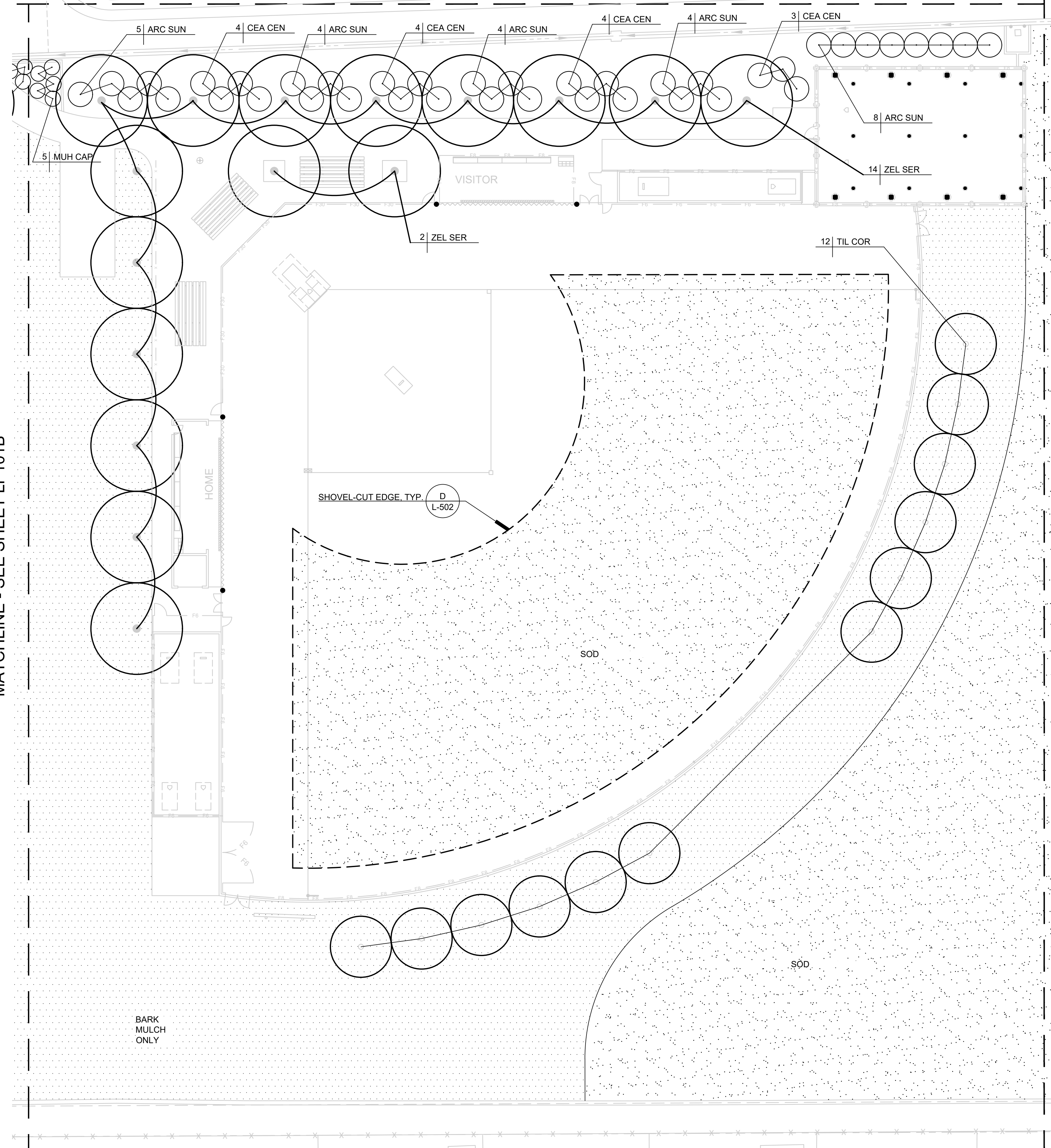
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MATCHLINE - SEE SHEET LP101A

SEE SHEET LP101A FOR PLANTING NOTES  
LEGEND



MATCHLINE - SEE SHEET LP101B

MATCHLINE - SEE SHEET LP101D

BARK  
MULCH  
ONLY

SOD

SOD

SHOVEL-CUT EDGE, TYP  
D  
L-502

HOME

VISITOR

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CLIENT  
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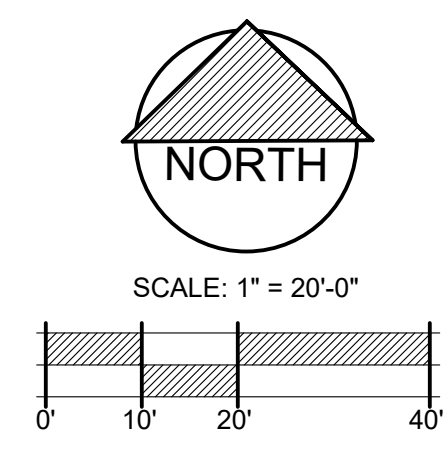
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TITLE  
PLANTING PLAN

SHEET  
LP101C

ANLA PROJECT NO: \_\_\_\_\_ 2318





0.14" = 1' 0"

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C

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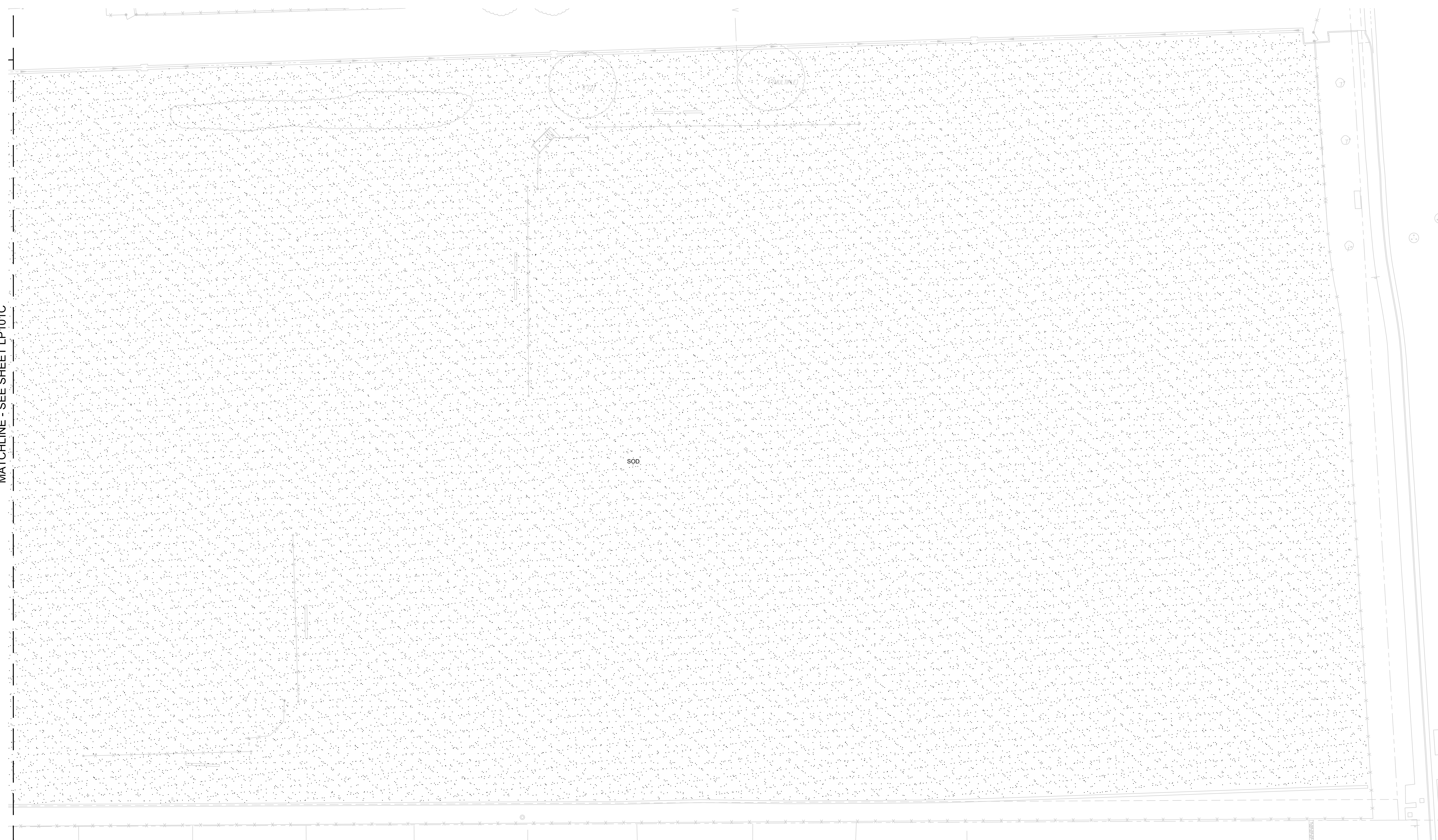
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MATCHLINE - SEE SHEET LP101C

SEE SHEET LP101A FOR PLANTING NOTES AND LEGEND

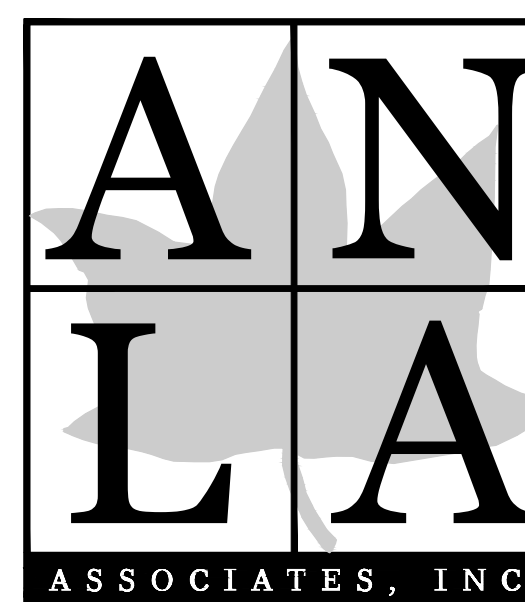
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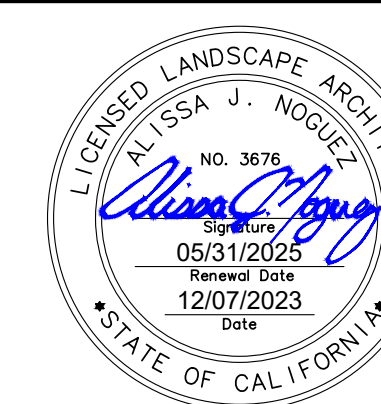
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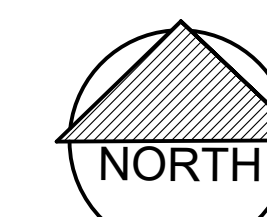
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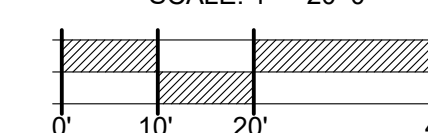
SHEET  
**LP101D**

ANLA PROJECT NO.

2318



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0.184" = 1'2"

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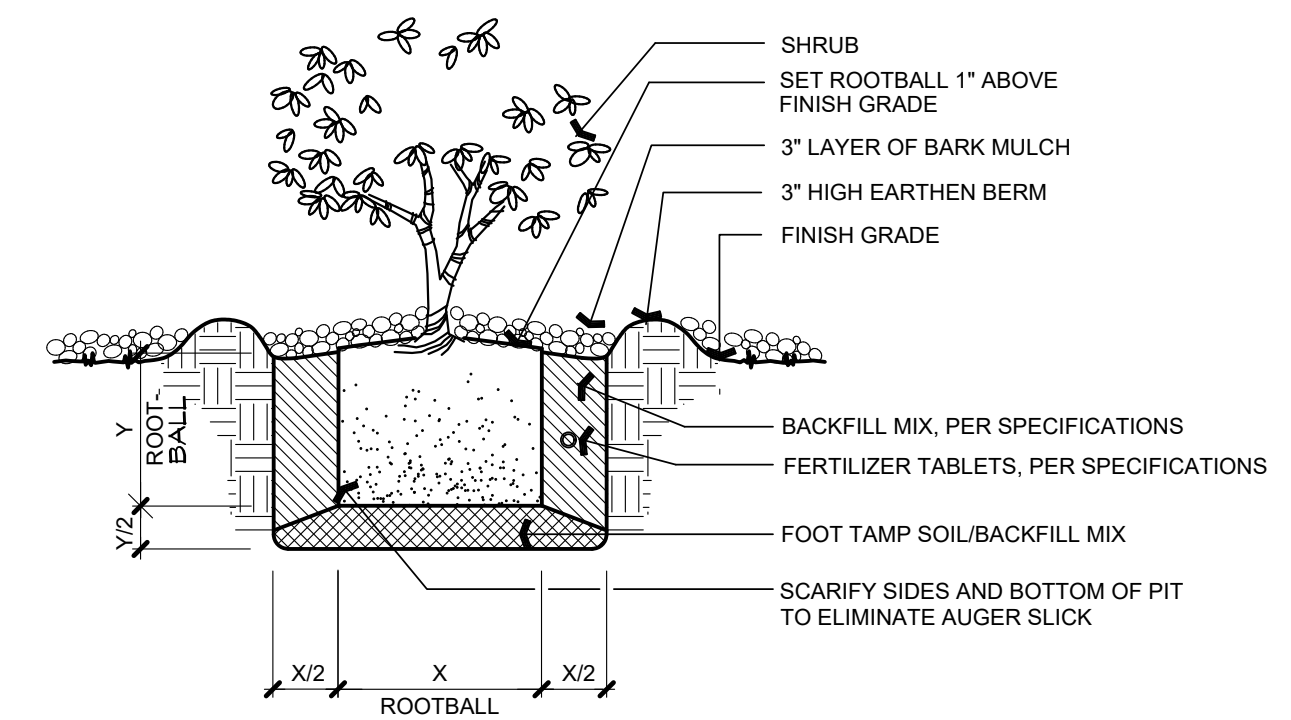
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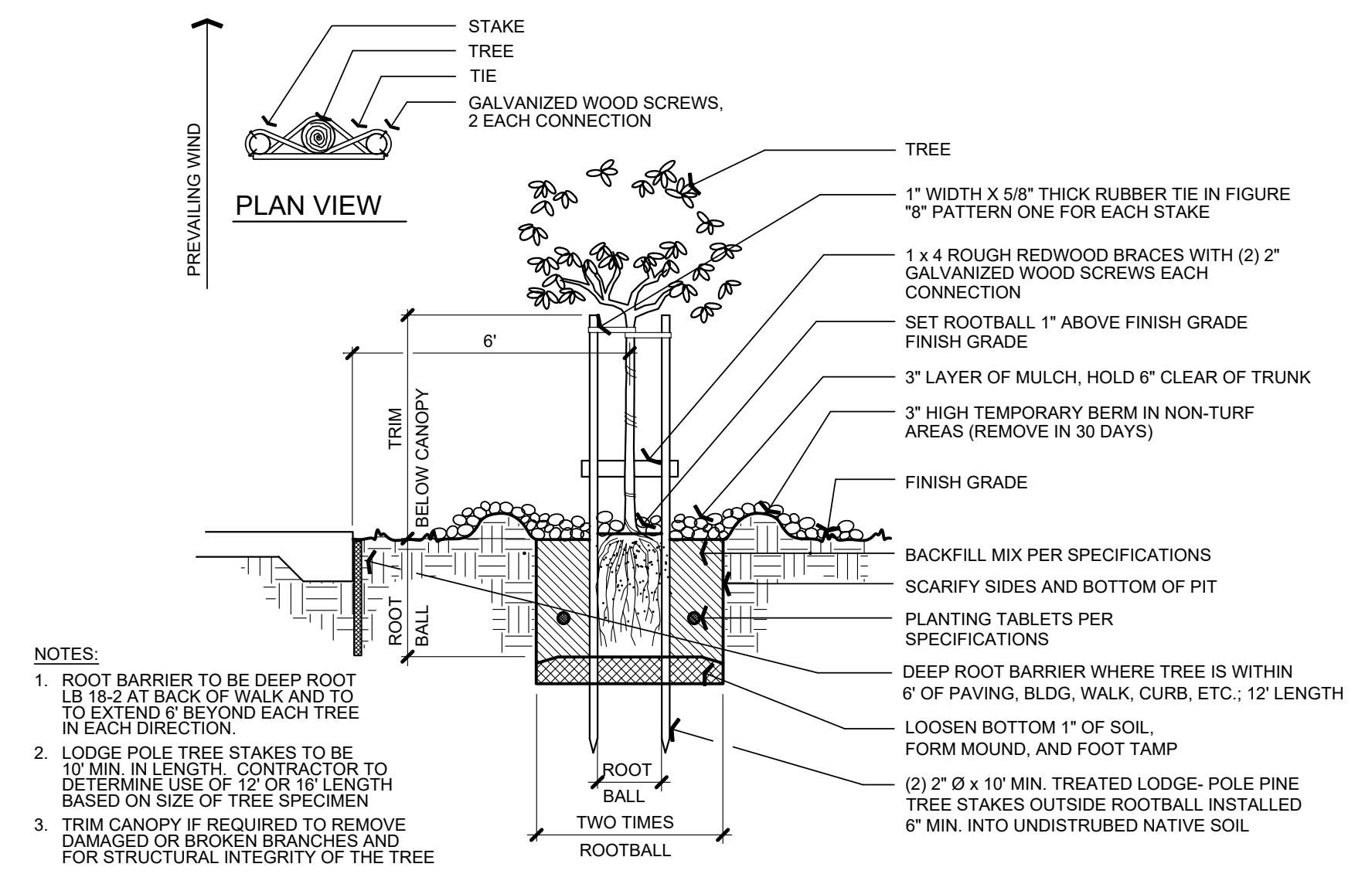
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SHRUB PLANTING



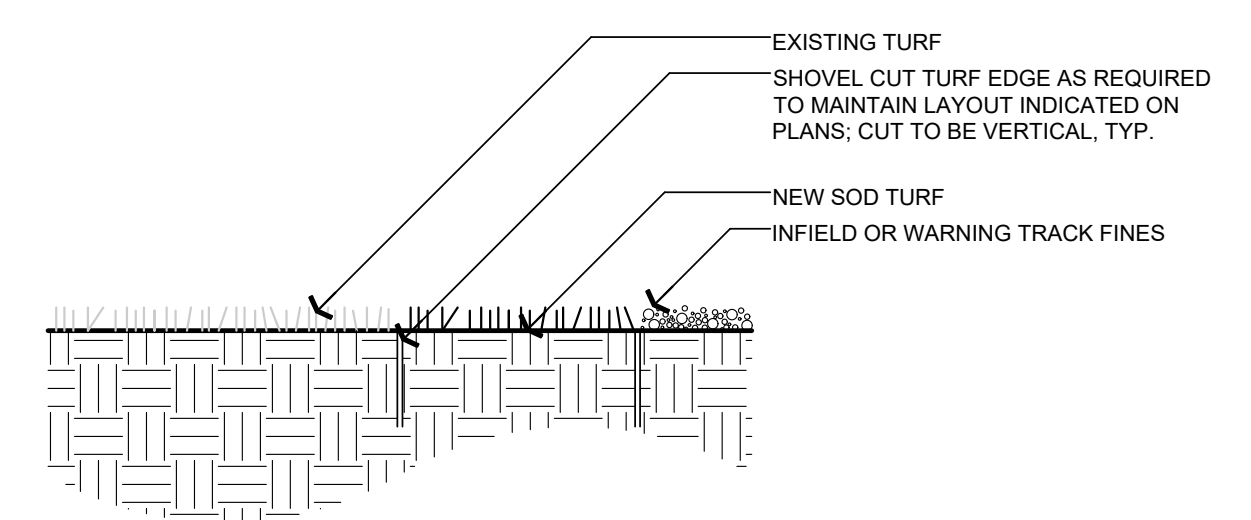
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TREE PLANTING



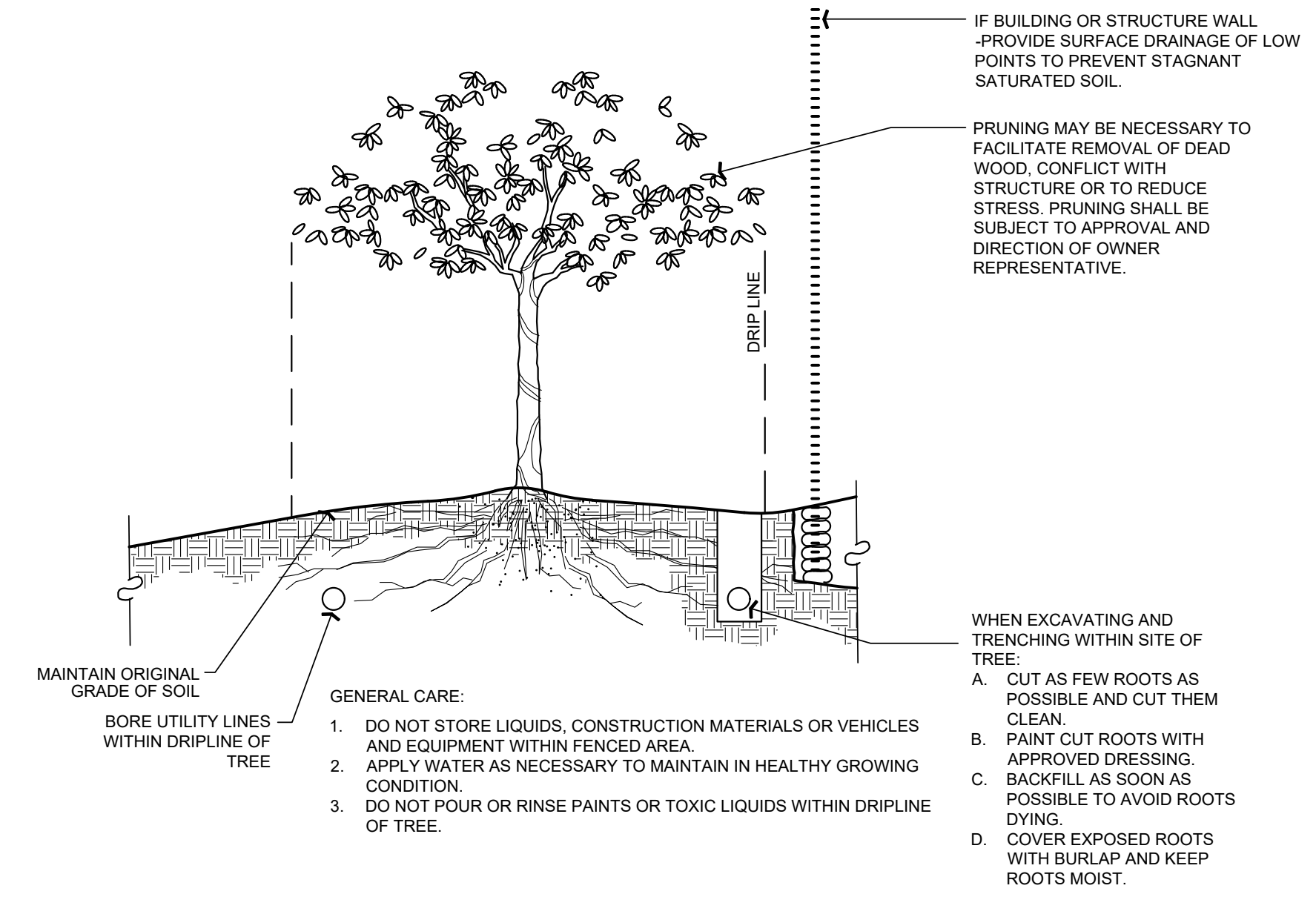
SCALE: NTS

SHOVEL-CUT EDGE TURF



SCALE: NTS

TREE PROTECTION



SCALE: NTS

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TITLE  
PLANTING DETAILS

SHEET

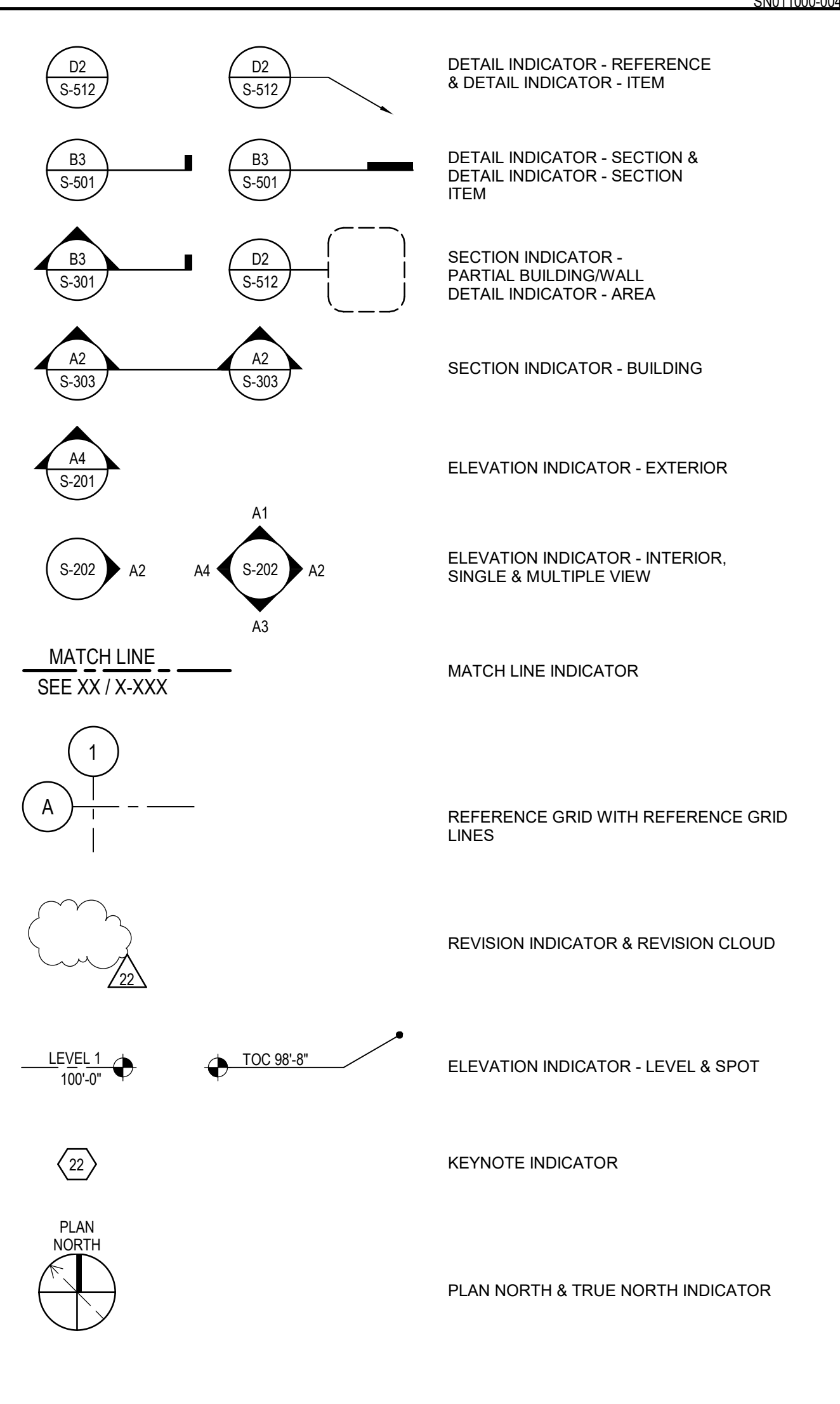
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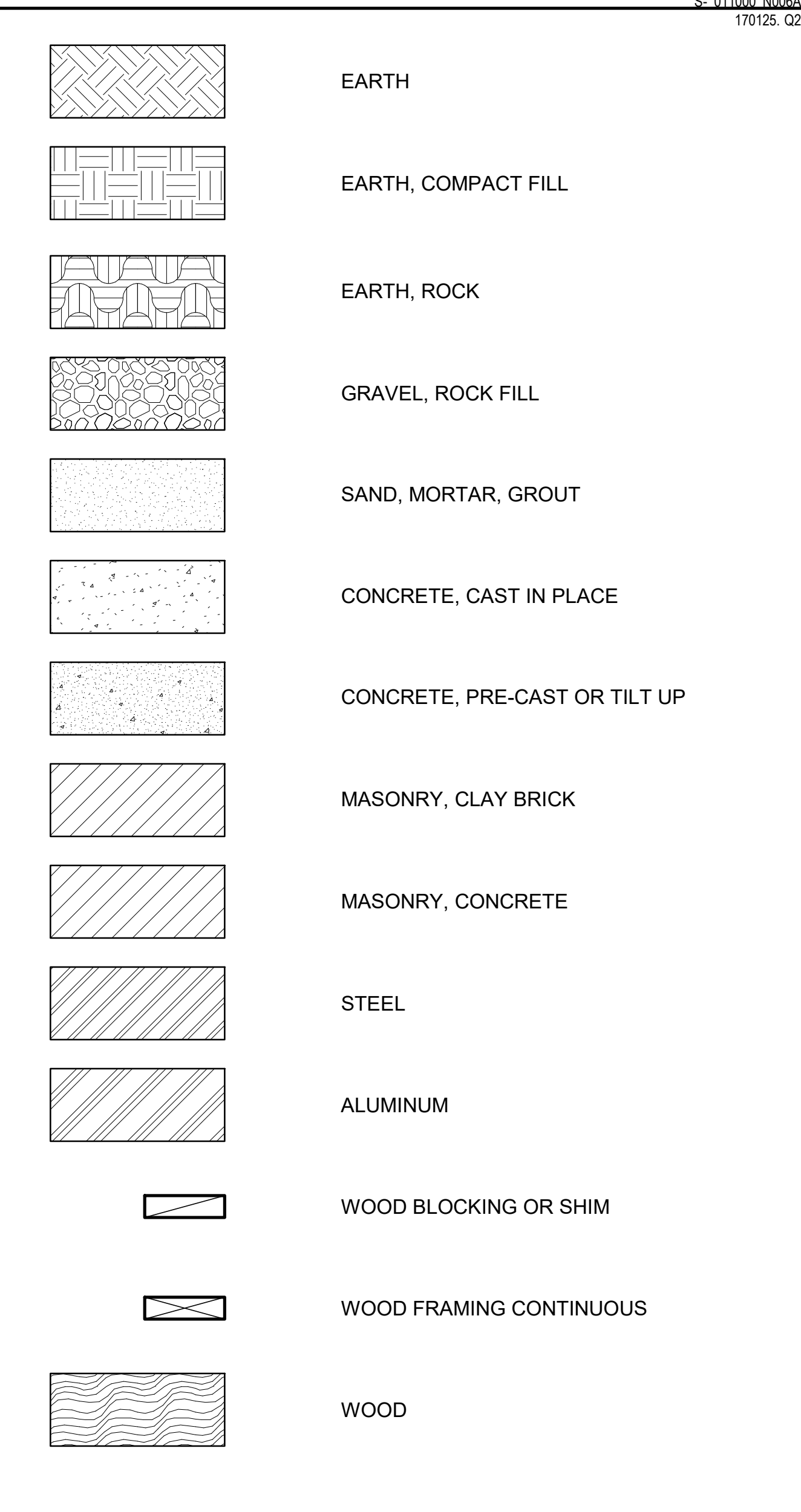
STRUCTURAL ABBREVIATIONS LEGEND

Table listing structural abbreviations and their corresponding full names, organized in two columns.

STRUCTURAL SYMBOLS LEGEND



MATERIAL SYMBOL LEGEND



STRUCTURAL GENERAL NOTES

- 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.

EXISTING CONSTRUCTION

- 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.

STRUCTURAL DESIGN CRITERIA

- 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

FIRE / SMOKE PROTECTION OF STRUCTURE

- 1. THE FIRE RESISTANCE RATING OF STRUCTURAL MEMBERS AND ASSEMBLIES SHALL BE IN ACCORDANCE WITH THE BUILDING CODE AND THE REQUIREMENTS INDICATED IN THE CONSTRUCTION DOCUMENTS.

PROJECT DIRECTORY

Table listing project information including Owner (SAC CITY UNIFIED SCHOOL DISTRICT), Structural Engineer (LIONAKIS), and Civil Engineer (WARREN CONSULTING ENGINEERS, INC.).

STRUCTURAL SHEET INDEX

Table showing sheet numbers and names, such as S-001 GENERAL NOTES, S-011 TYPICAL NOTES, S-541 DETAILS - TYPICAL CONCRETE, and S-541 DETAILS - TYPICAL MASONRY.



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PROJECT: LUTHER BURBANK HIGH SCHOOL ATHLETIC FIELDS RENOVATION
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Table with columns for Mark, Date, and Description, containing project milestones like DSA SUBMITTAL and BID SET - NOT DSA APPROVED.

CLIENT: SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
5735 4TH AVENUE, SACRAMENTO, CA 95824

MANAGEMENT
LIONAKIS PROJECT NO.: 023041
DSA APPLICATION NO.: 02-1218-10
CLIENT PROJECT NO.:
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TITLE: GENERAL NOTES

SHEET: S-001

IF THIS SHEET IS NOT 34" x 42" IT IS A REDUCED PRINT - SCALE ACCORDINGLY
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STRUCTURAL SUBMITTALS

- 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 SUBSTITUTING TEST DATA
MASONRY GROUT MIX DESIGNS AND SUBSTITUTING 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 REJECTED "REVISIT". 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 CONSIDERED 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 SUBSTITUTING 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 SUBSTITUTING 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 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 DATA SHEETS
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

- 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

- 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
FORNWORK 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 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

- 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 F344 Fy = 36ksi
PLATE WASHERS A36 Fy = 36ksi
NUTS FOR BOLTS & RODS A307, GRADE A, HEX Fy = 60ksi
ANCHOR BOLTS & RODS F1554, CLASS 2A, S3 GRADE 36 TYP. UNO Fy = 36ksi
(HEADED OR THREADED & NUTTED)
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

- 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 18 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 GADE 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 G90; 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 RBIS ALIGNED, UNO. BARE STEEL DECK MAY BE LAP SPICED WITH A MINIMUM LAP OF 2" PROVIDED THE DECK ENDS ARE DUE 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

- 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, 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 THE 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 THE SIDES OF EXCAVATIONS WHERE UNFORMED FOUNDATION ELEMENTS 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

- 1. 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.
2. 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.
3. THE MINIMUM CLEAR DISTANCE BETWEEN PARALLEL REBAR SHALL BE THE GREATER OF ONE REBAR DIAMETER OR 1" IN COLUMNS AND BETWEEN 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.
4. 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.
5. 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 FLUMB.
6. 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.
7. REBAR BENDS AND HOOKS SHALL COMPLY WITH TYPICAL DETAILS UNO. HAIR PINS AND 180 DEGREE HOOKS SHALL COMPLY WITH TYPICAL DETAIL FOR STRUTTIPS, HOOPS AND TIES. DO NOT BEND REBAR AFTER IT IS EMBEDDED IN GROUT OR MORTAR.
8. 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 SPICED AS FOLLOWS UNO:
#3 REBAR - 40 DIA = 15"
#4 REBAR - 48 DIA = 24"
#5 REBAR - 56 DIA = 36"
#6 REBAR - 72 DIA = 94"
#7 REBAR - 72 DIA = 63"
#8 REBAR - 72 DIA = 72"
9. 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.
10. 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.
11. BEFORE GROUTING CLEAN SPACES TO BE GROUTED, REMOVE OVERHANGING MORTAR, MORTAR DROPPINGS, OBSTRUCTIONS AND DEBRIS FROM INSIDE OF SPACES TO BE GROUTED.
12. PROVIDE CLEANOUT OPENINGS IN THE BOTTOM COURSE OF MASONRY FOR EACH GROUT POUR OVER 5'-0" 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.
13. 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 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.
14. 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.
15. 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 FOUR SECTIONS TO CONTROL THE HORIZONTAL FLOW OF GROUT.
16. 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.
17. 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.
18. CLEAN EXPOSED MASONRY SURFACES TO REMOVE STAINS, EFFLORESCENCE, MORTAR OR GROUT DROPPINGS, AND DEBRIS.

REINFORCED CONCRETE

- 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, Fw=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 REIN IN SLAB, UNO
B. CONCRETE FORMED & EXPOSED TO EARTH OR WEATHER:
- #6 THRU #18 BARS - 2"
- #6 BAR, WSI 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 - #4 #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 REINFORCING 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 SPICED.
9. UNLESS DETAILED OTHERWISE: REINFORCING IN CONTINUOUS BEAMS AND SPANDRELS SHALL HAVE THE TOP BARS SPICED AT MID-SPAN AND THE BOTTOM BARS SPICED AT THE CENTERLINE OF SUPPORTS. REINFORCING IN CONTINUOUS SOIL-BEARING GRADE BEAMS OR FOOTINGS SHALL HAVE THE TOP BARS SPICED AT CENTERLINE OF COLUMN SUPPORTS AND THE BOTTOM BARS SPICED 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

MIX DESIGN TABLE
LOCATION: BELOW GRADE CONCRETE (FTGS, PIERS, GRADE BEAMS)
REQ SCM (% BY WEIGHT OF TOTAL CONSTITUENT MATERIALS): 15
REQ EARLY COMPRESSIVE STRENGTH (PSI): 2500 PRIOR TO LOADING
REQ 28 DAY COMPRESSIVE STRENGTH (PSI): 3000
AIR CONTENT: NONE
MAX W/C RATIO: 0.50
MAX AIR-DRY (LBS/FT3): 145
ACI EXPOSURE CLASS: F0 S0, W0, C1

LIONAKIS CONSULTANT
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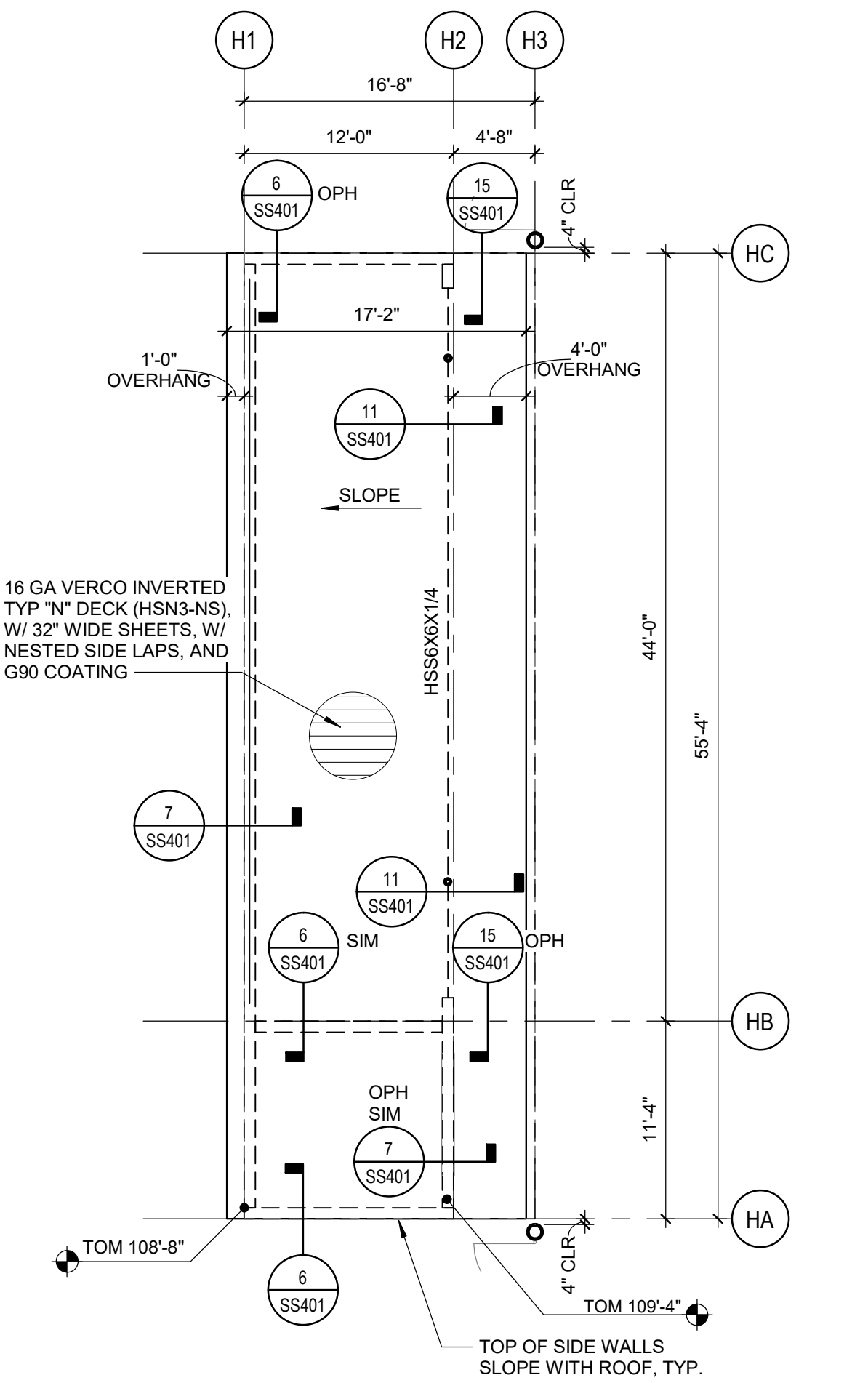
PROJECT: LUTHER BURBANK HIGH SCHOOL ATHLETIC FIELDS RENOVATION
3500 FLORIN ROAD
SACRAMENTO, CA 95823
CLIENT: SACRAMENTO CITY UNIFIED SCHOOL DISTRICT
5735 4TH AVENUE, SACRAMENTO, CA 95824

ISSUED
MARK DATE DESCRIPTION
09/10/2023 DSA SUBMITTAL
12/01/2023 BID SET - NOT DSA APPROVED

MANAGEMENT
LIONAKIS PROJECT NO.: 023041
DSA APPLICATION NO.: 02-121810
CLIENT PROJECT NO.:
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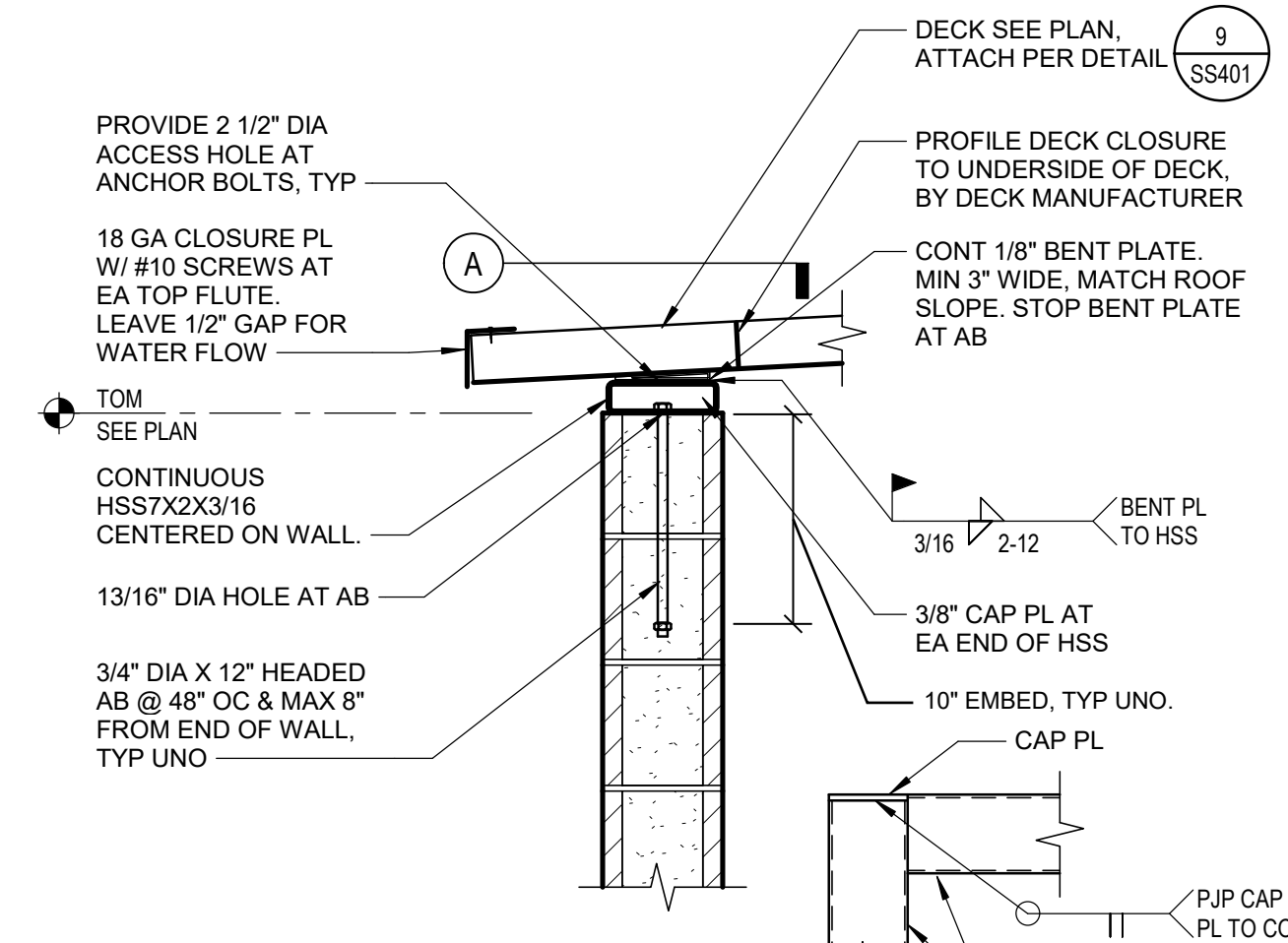
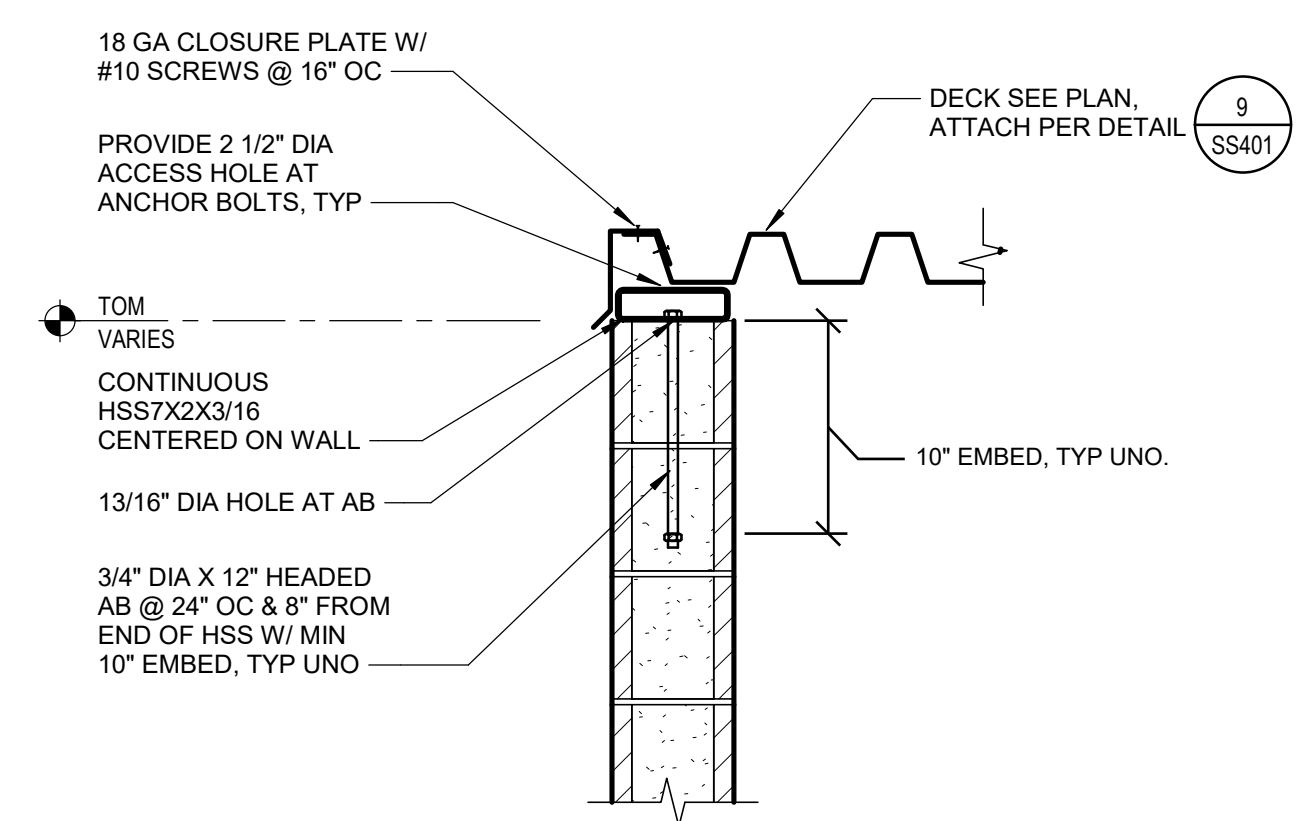
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E

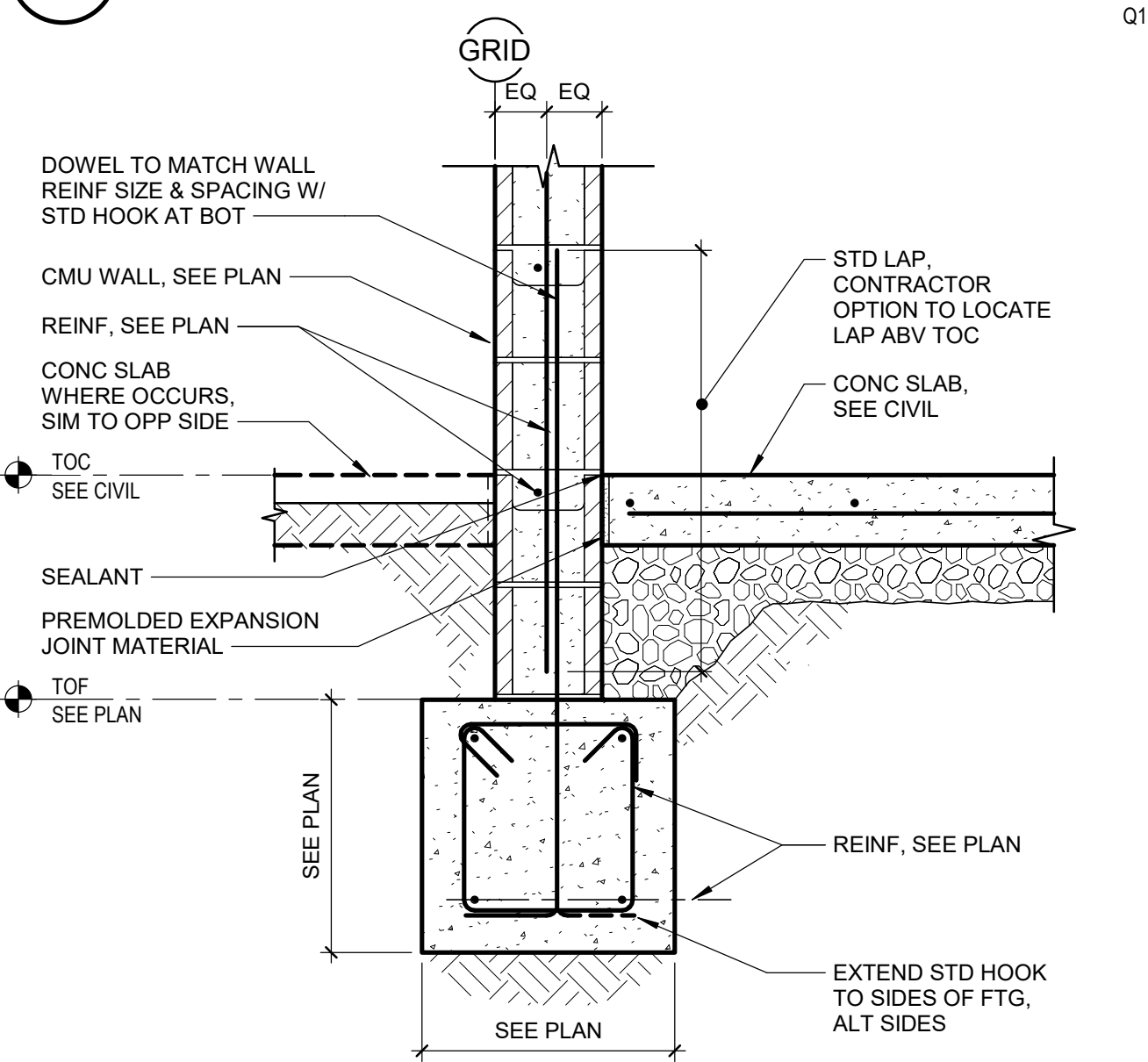


**2 ENLARGED PLAN - ROOF FRAMING - HOME DUGOUT**  
SCALE 1/8" = 1'-0"

**6 DETAIL**  
1" = 1'-0"

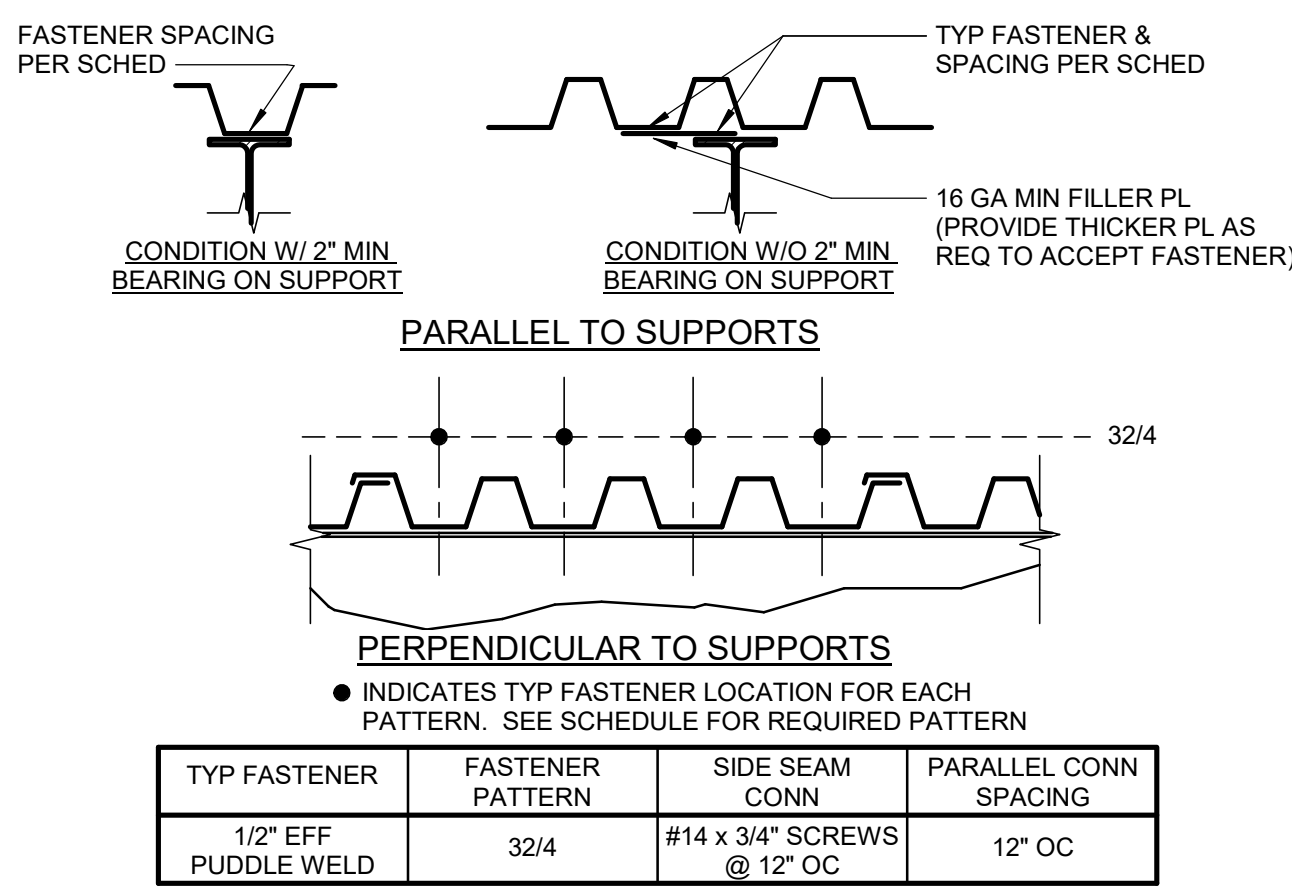


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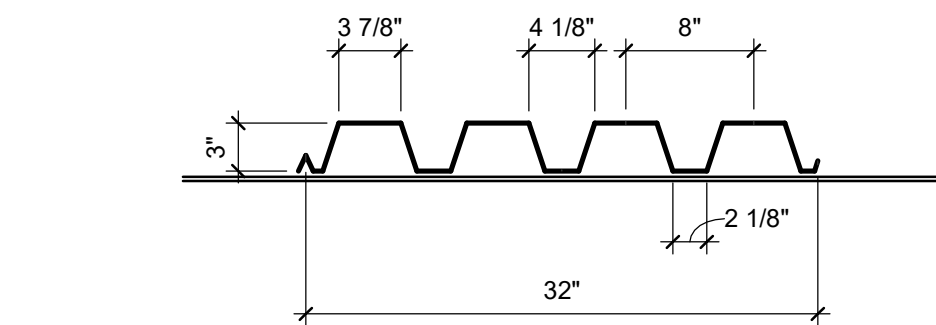


**8 DETAIL**  
1" = 1'-0"

**4 ENLARGED PLAN - FOUNDATION - HOME DUGOUT**  
SCALE 1/8" = 1'-0"



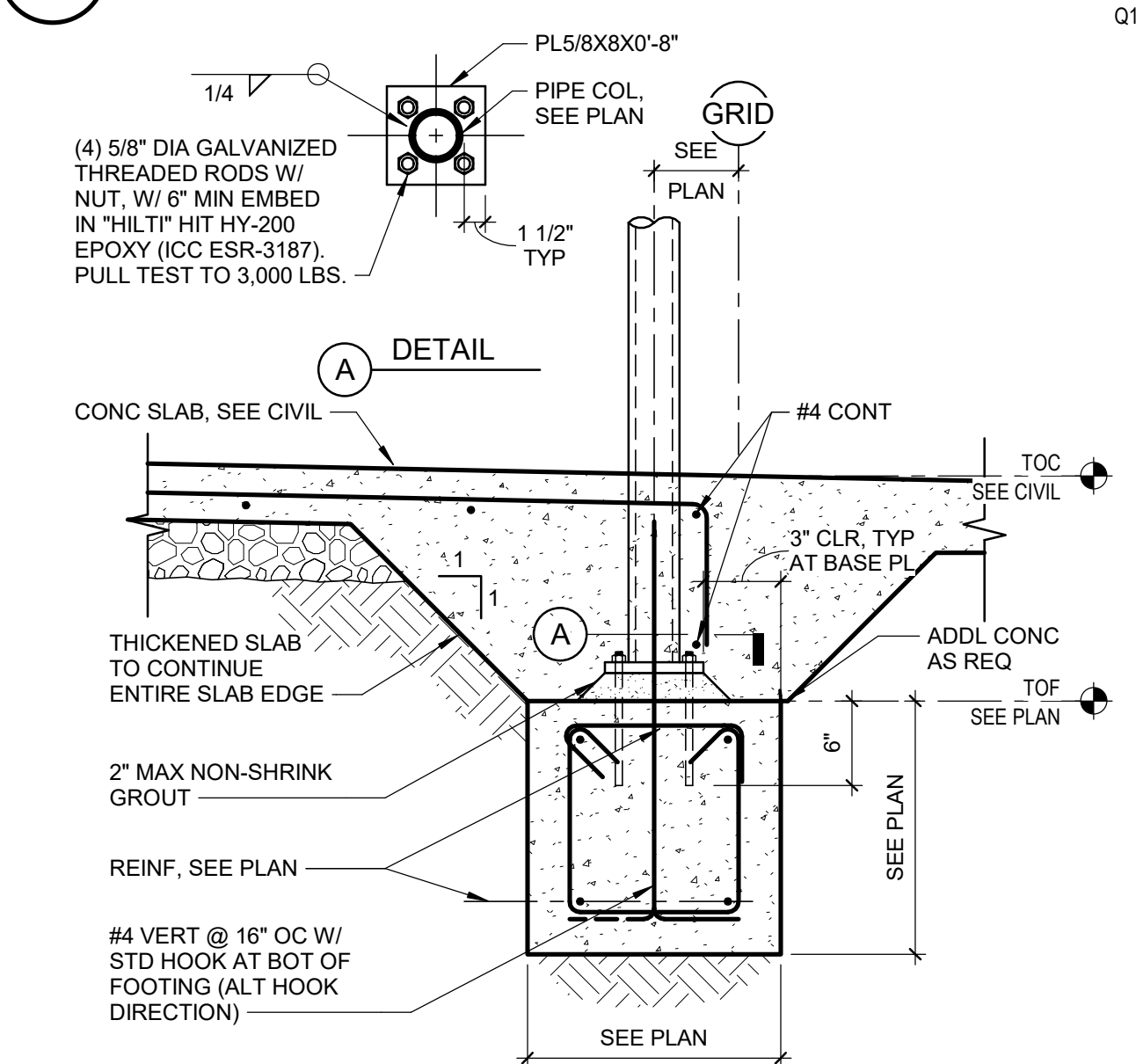
**9 TYP 3" INVERTED TYPE 'N' NON-COMPOSITE STEEL DECK ATTACHMENT**  
1" = 1'-0"



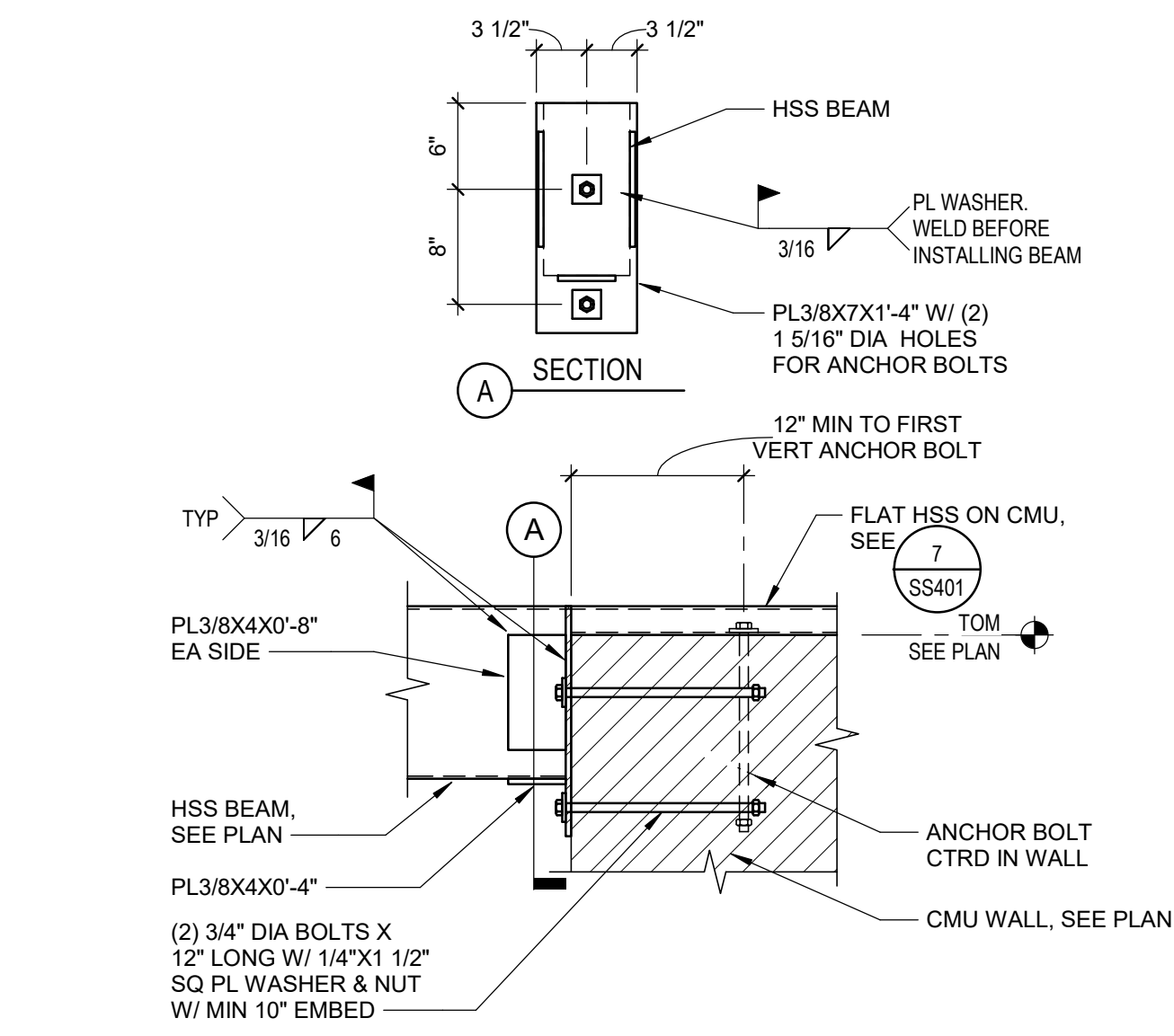
STEEL DECK PROPERTIES						
TYPE	GA	I <sub>g</sub> + (in <sup>4</sup> /ft)	I <sub>p</sub> - (in <sup>4</sup> /ft)	S <sub>g</sub> + (in <sup>3</sup> /ft)	S <sub>p</sub> - (in <sup>3</sup> /ft)	F <sub>y</sub> MIN (KSI)
N	16	1.57	1.58	0.881	0.93	50

**13 DECK PROFILE / PROPERTIES**  
1" = 1'-0"

**11 DETAIL**  
1" = 1'-0"



**12 DETAIL**  
1" = 1'-0"



**15 DETAIL**  
1" = 1'-0"

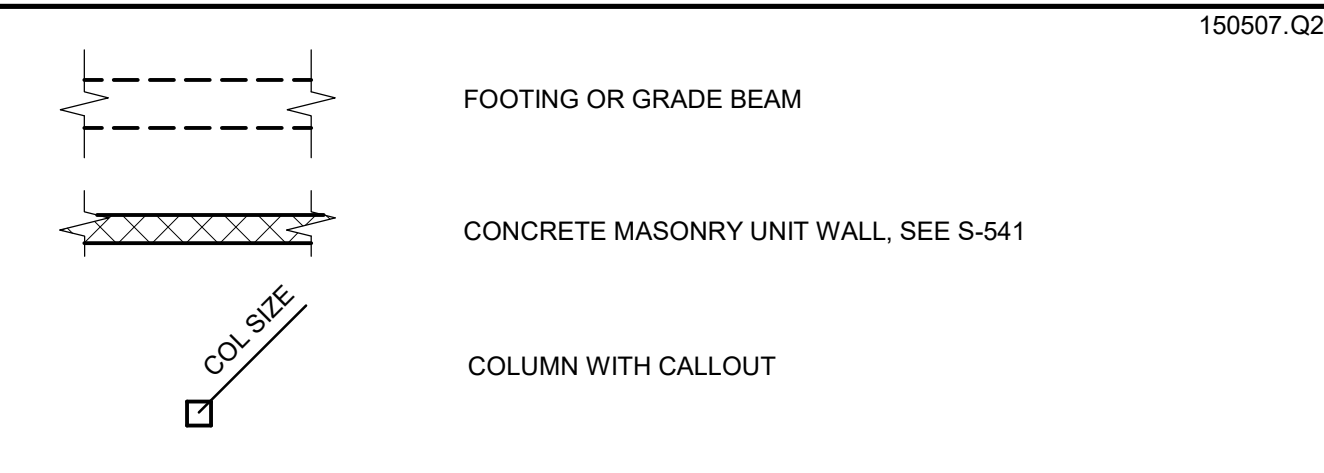
**NOTES**

- SEE S-000 SHEETS FOR GENERAL NOTES & S-500 SHEETS FOR TYPICAL DETAILS.
- DIMENSIONS ARE TO FOM OR CENTERLINE OF COLUMNS/POSTS, UNO.
- SEE ARCH & OTHER CONSULTANT DWGS FOR DIMENSIONS & LOCATIONS OF WALL OPENINGS.
- SEE CIVIL DWGS FOR DIMENSIONS OF SLOPED SLABS.
- SEE CIVIL DRAWINGS AND SPECIFICATIONS FOR ENGINEERED FILL.
- EXTERIOR CONCRETE FLATWORK IS NOT SHOWN, SEE CIVIL & ARCH DWGS.
- ALL MASONRY WALLS ARE 8" CMU GROUTED SOLID W/ STD REINF, TYP UNO, SEE 19/15-541
- ALL SCREWS ON DECK TO BE GALVANIZED AND HAVE NEOPRENE WASHERS.
- CLOSURE PLATES TO BE PAINTED, ARCHITECT TO DETERMINE COLOR.

**SCHEDULES**

CONTINUOUS FOOTING SCHEDULE				
TYPE	WIDTH	DEPTH	REINFORCEMENT	
FC2.0	2'-0"	2'-0"	(2) #5 CONT T&B W/ #4 TIES @ 16" OC	
FC4.5	4'-6"	2'-0"	(5) #5 CONT T&B W/ #4 TIES @ 16" OC	

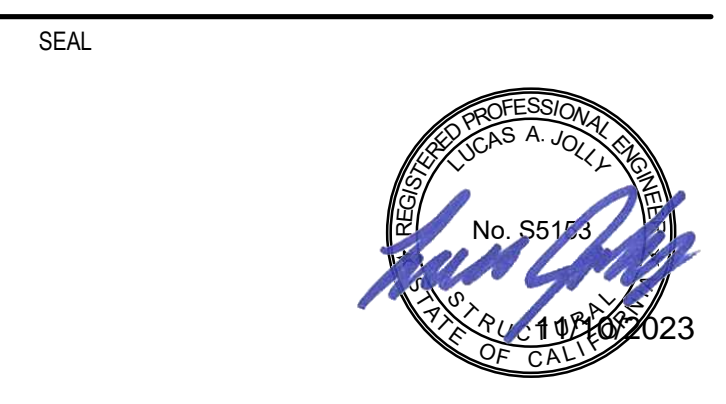
**LEGEND**



**LIONAKIS**

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CONSULTANT



PROJECT  
**LUTHER BURBANK HIGH SCHOOL ATHLETIC FIELDS RENOVATION**

3500 FLORIN ROAD  
SACRAMENTO, CA 95823

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

ISSUED		
MARK	DATE	DESCRIPTION
	08/10/2023	DSA SUBMITTAL
	12/01/2023	BID SET - NOT DSA APPROVED

MANAGEMENT	
LIONAKIS PROJECT NO.	023041
DSA APPLICATION NO.	02-121810
CLIENT PROJECT NO.	
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TITLE  
**ENLARGED PLAN - HOME DUGOUT**

SHEET  
**SS401**

0 1/4" 1/2" 1"

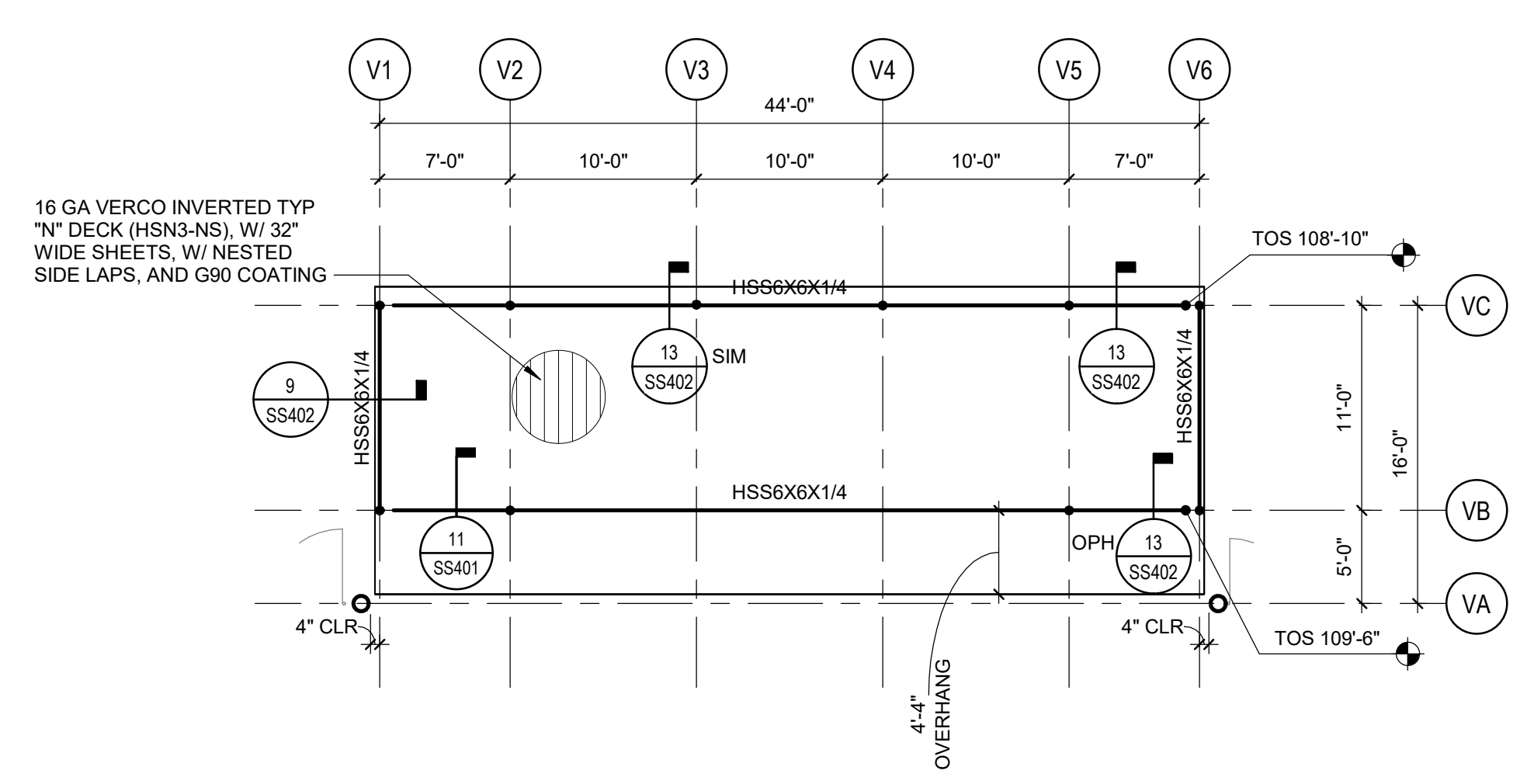
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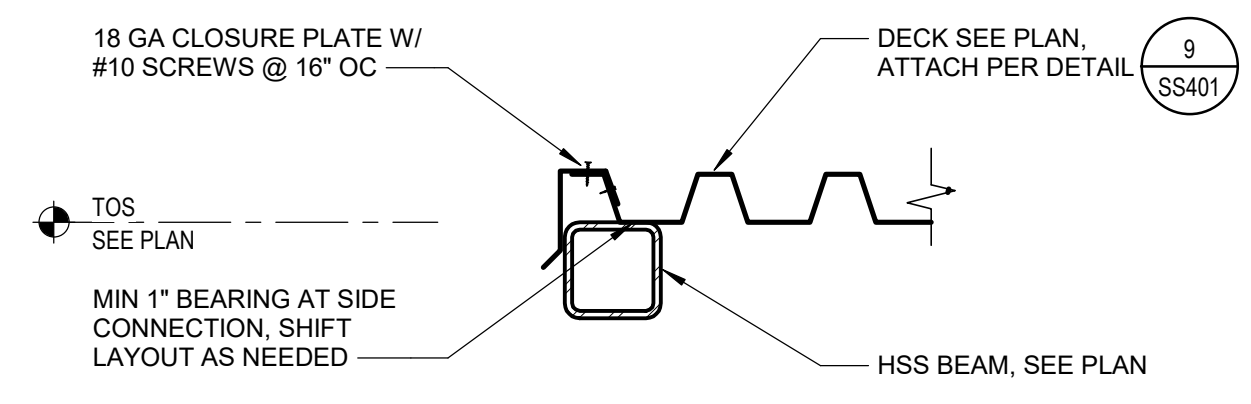
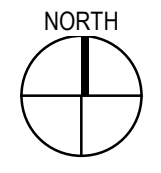
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BM 030 / 023041 - SQUARED Burbank HS Plans 02/04/24 - ARCHISTE ECOL CENTRAL.rvt

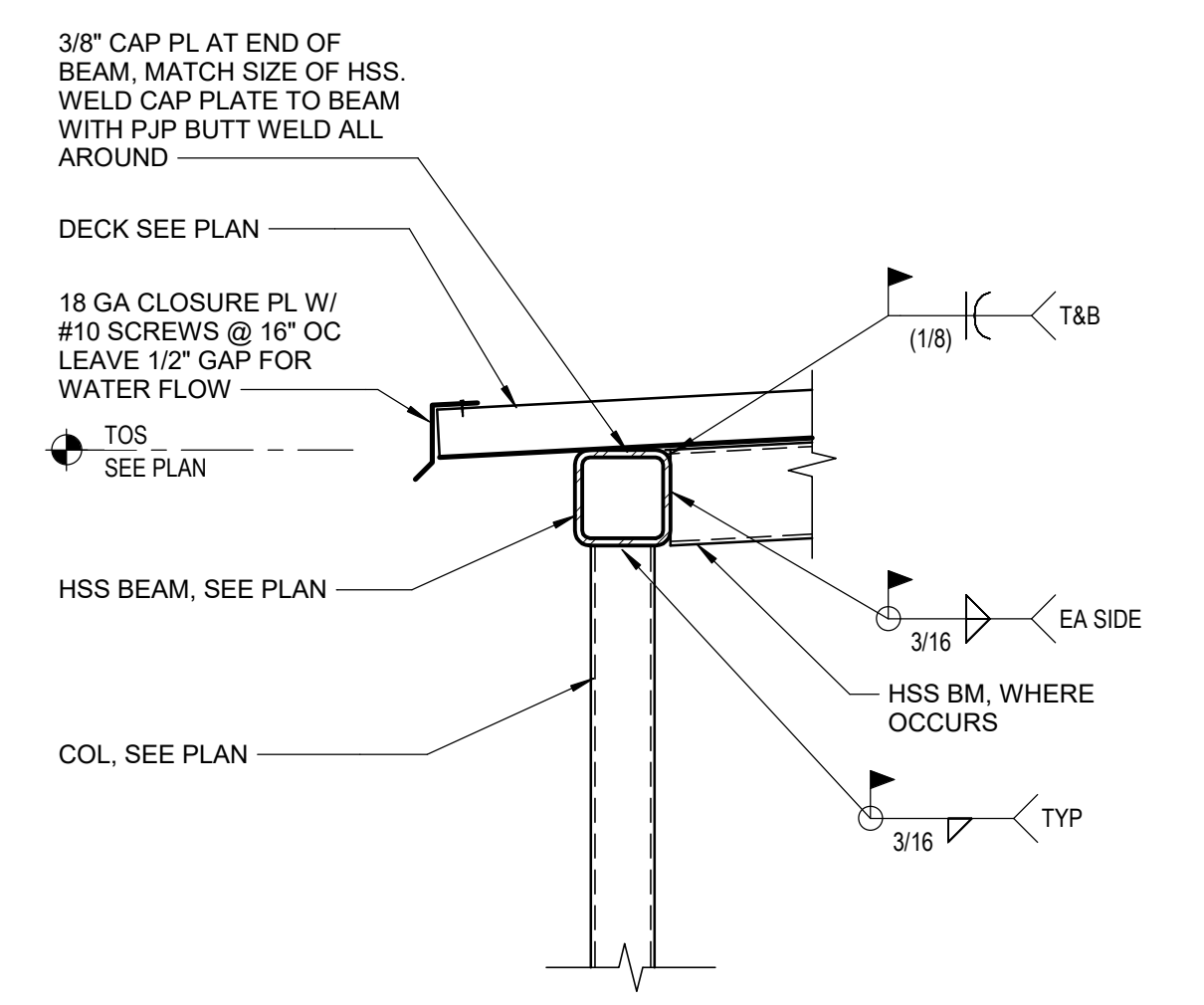
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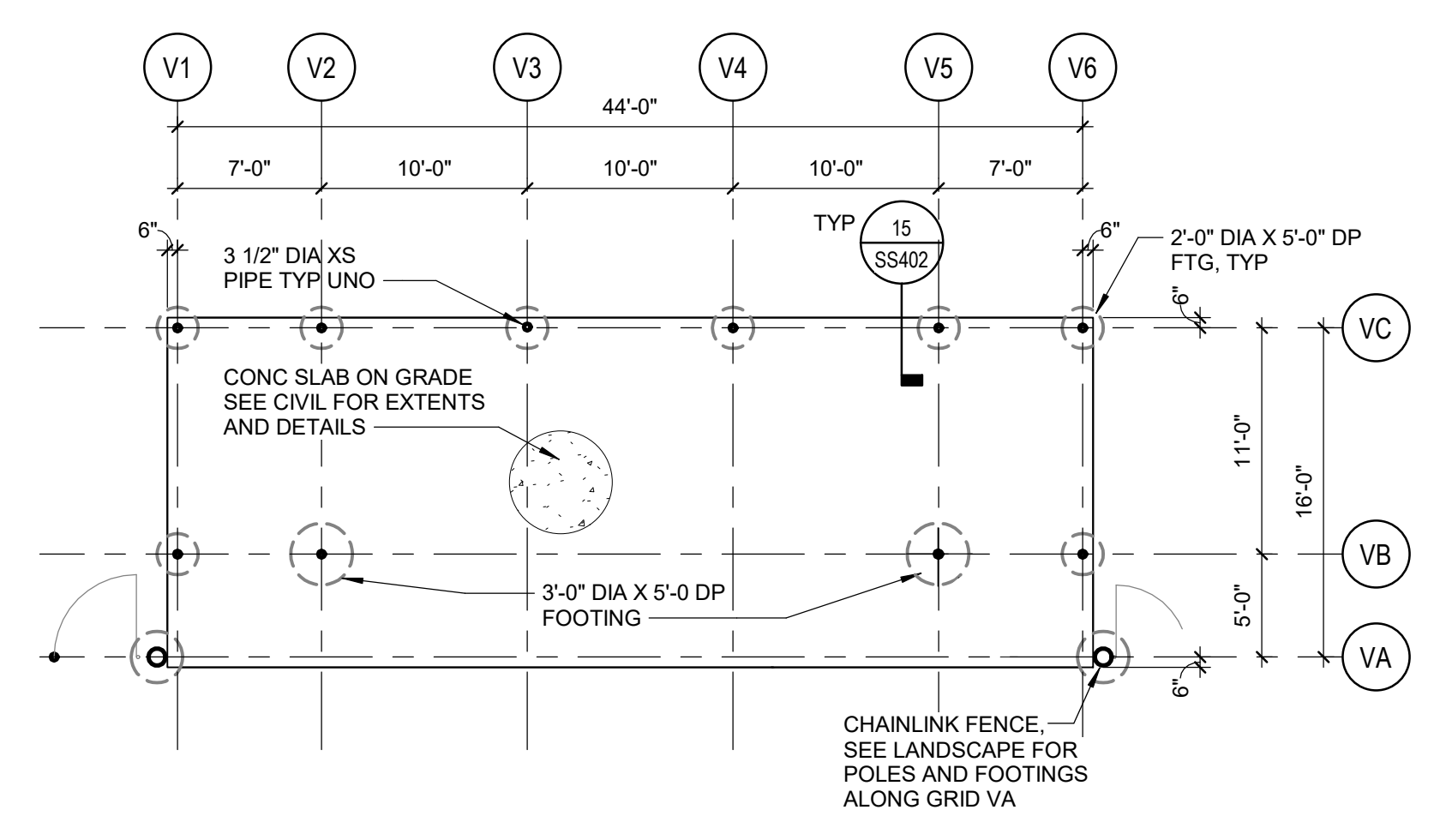
**1 ENLARGED PLAN - ROOF FRAMING - VISITOR DUGOUT**  
SCALE 1/8" = 1'-0"



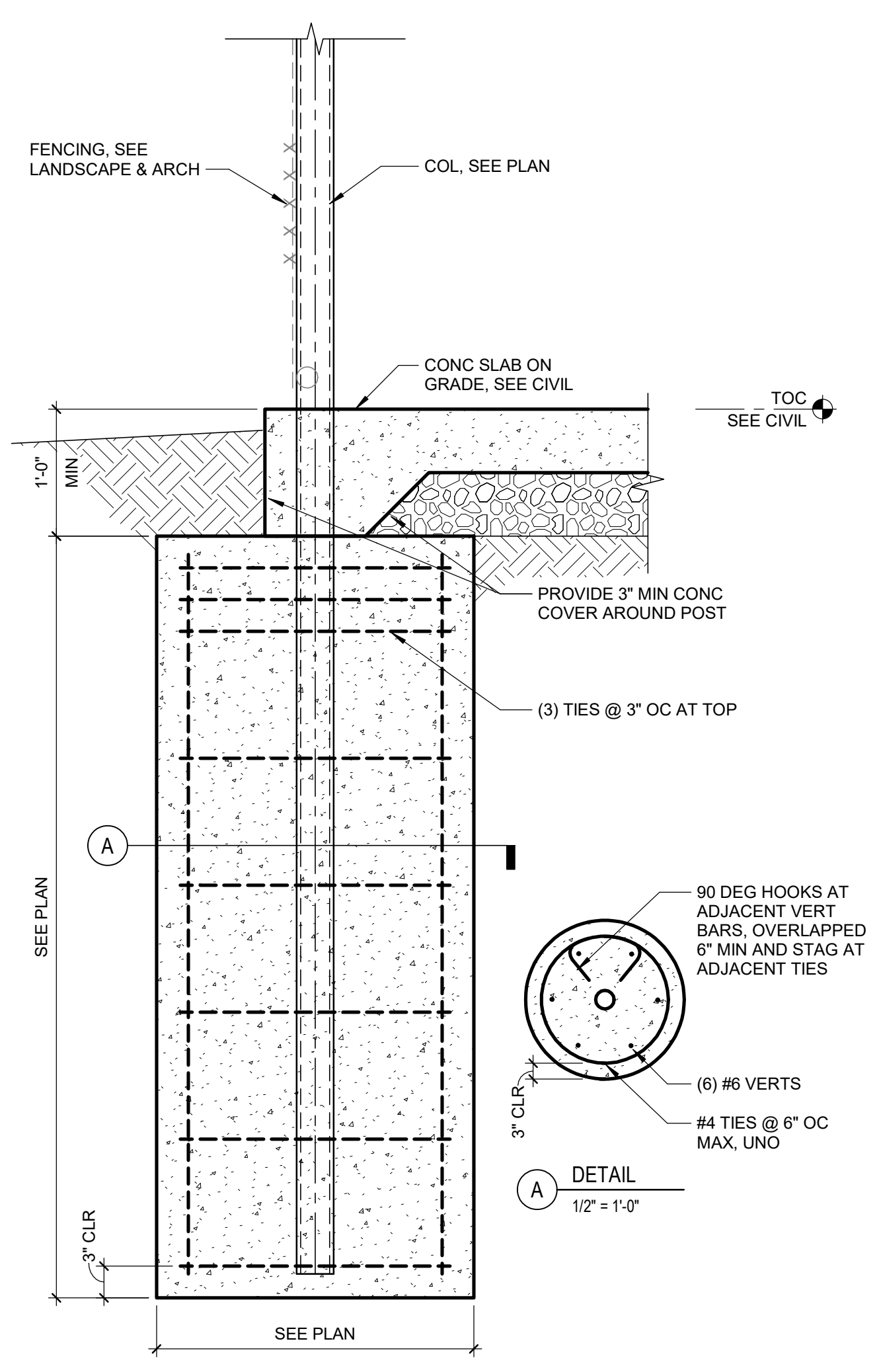
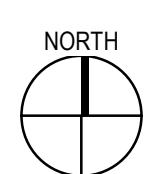
**9 DETAIL**  
1" = 1'-0"



**13 DETAIL**  
1" = 1'-0"



**2 ENLARGED PLAN - FOUNDATION - VISITOR DUGOUT**  
SCALE 1/8" = 1'-0"

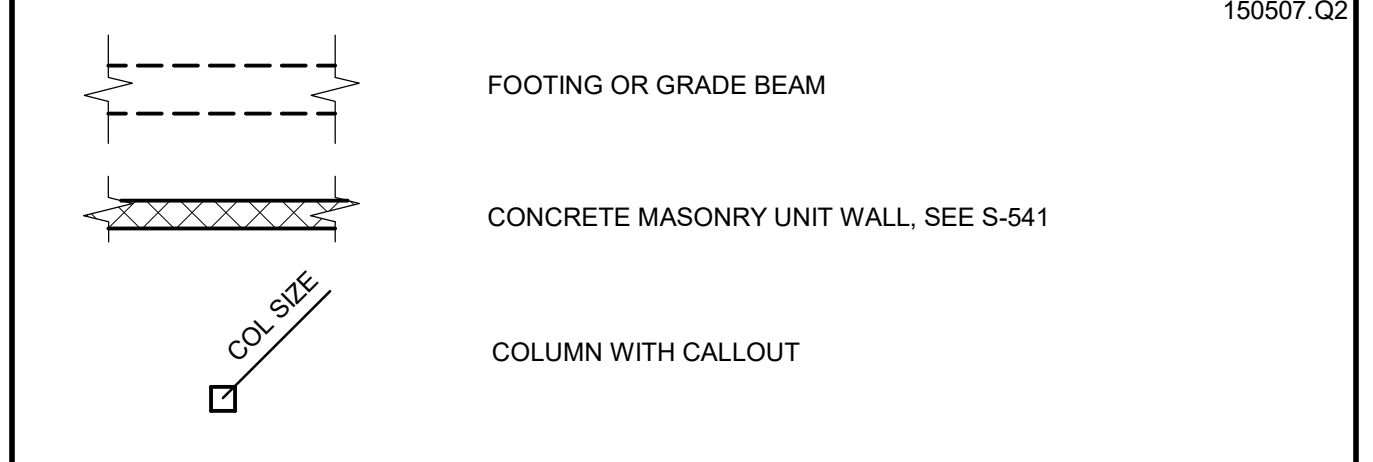


**15 DETAIL**  
1" = 1'-0"

**NOTES**

- SEE S-000 SHEETS FOR GENERAL NOTES & S-500 SHEETS FOR TYPICAL DETAILS.
- DIMENSIONS ARE TO CENTERLINE OF COLUMNS/POSTS, UNO.
- SEE ARCH & OTHER CONSULTANT DWGS FOR DIMENSIONS & LOCATIONS OF WALL OPENINGS.
- SEE CIVIL DWGS FOR DIMENSIONS OF SLOPED SLABS.
- SEE CIVIL DRAWINGS AND SPECIFICATIONS FOR ENGINEERED FILL.
- EXTERIOR CONCRETE FLATWORK IS NOT SHOWN, SEE CIVIL & ARCH DWGS.
- CLOSURE PLATES TO BE PAINTED, ARCHITECT TO DETERMINE COLOR.

**LEGEND**



150507.02  
150507.02

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**PROJECT**  
LUTHER BURBANK HIGH SCHOOL  
ATHLETIC FIELDS RENOVATION

3500 FLORIN ROAD  
SACRAMENTO, CA 95823

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

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MARK	DATE	DESCRIPTION
	08/10/2023	DSA SUBMITTAL
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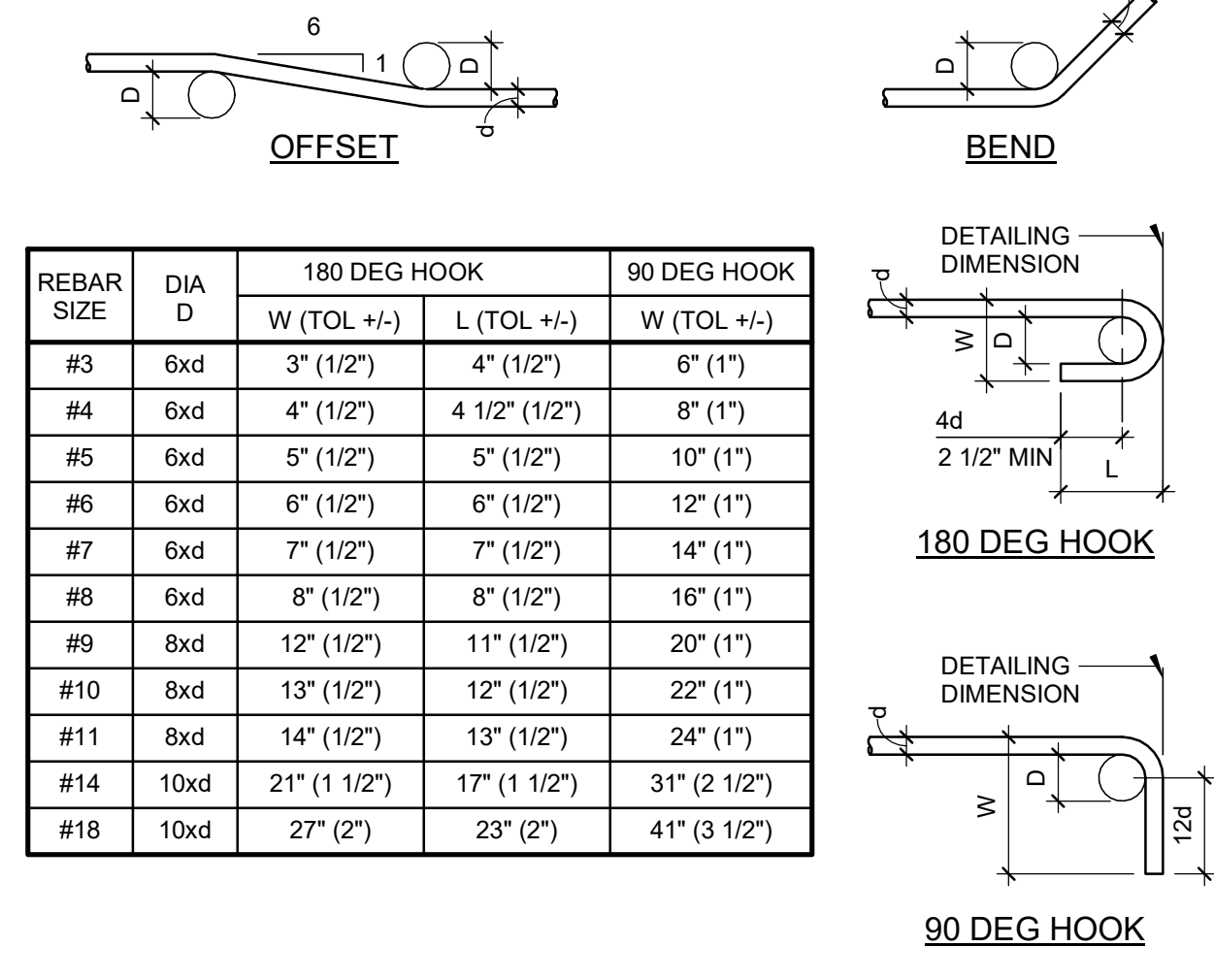
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DSA APPLICATION NO.:	02-121610
CLIENT PROJECT NO.:	
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**TITLE**  
ENLARGED PLAN -  
VISITOR DUGOUT

**SHEET**  
SS402

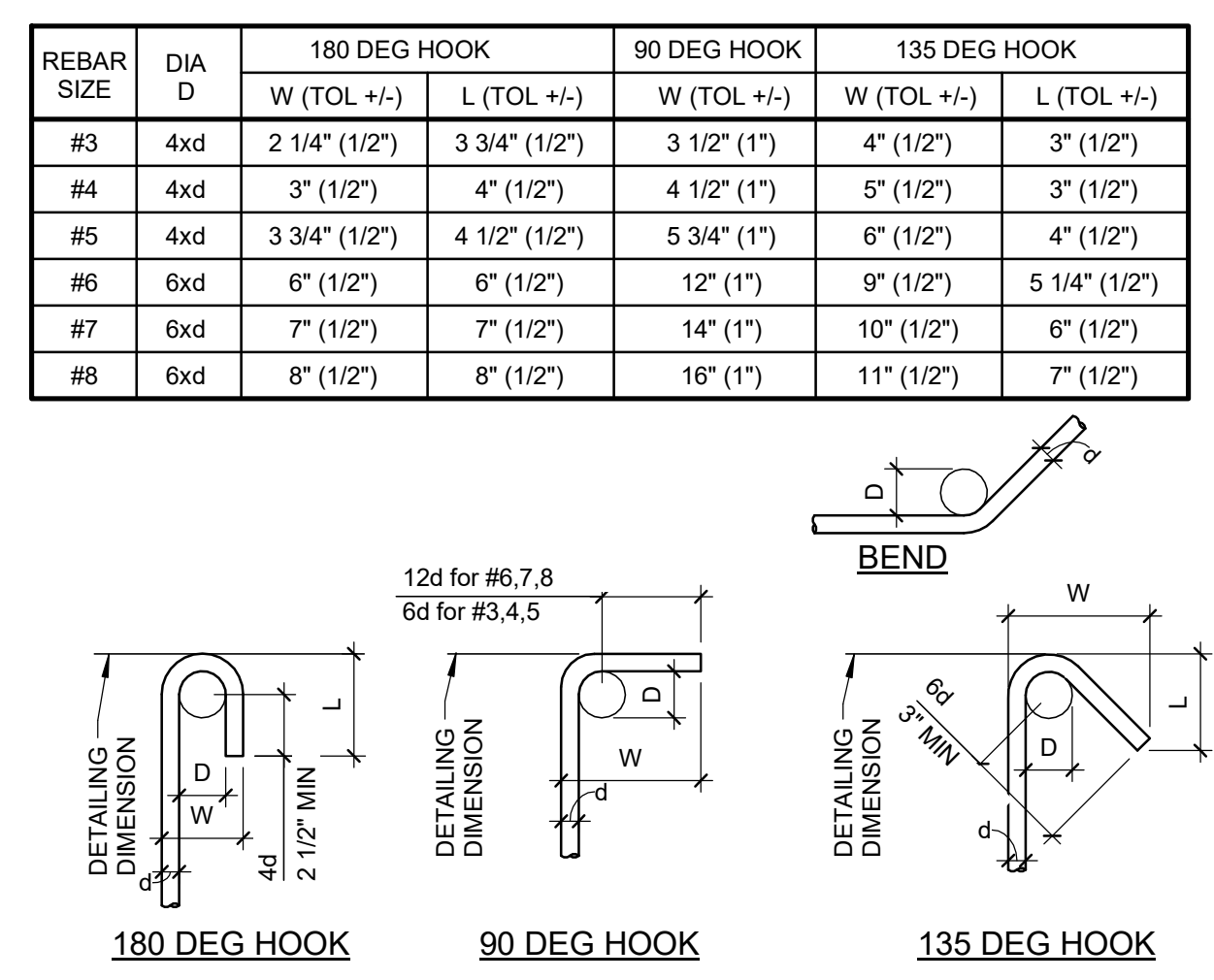
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REBAR SIZE	DIA	180 DEG HOOK	90 DEG HOOK
		W (TOL +/-)	L (TOL +/-)
#3	6xd	3" (1/2")	4" (1/2")
#4	6xd	4" (1/2")	4 1/2" (1/2")
#5	6xd	5" (1/2")	5" (1/2")
#6	6xd	6" (1/2")	6" (1/2")
#7	6xd	7" (1/2")	7" (1/2")
#8	6xd	8" (1/2")	8" (1/2")
#9	6xd	12" (1/2")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

**1 TYP REBAR BENDS AND HOOKS**  
SCALE: NTS S-032000\_T010A 140127



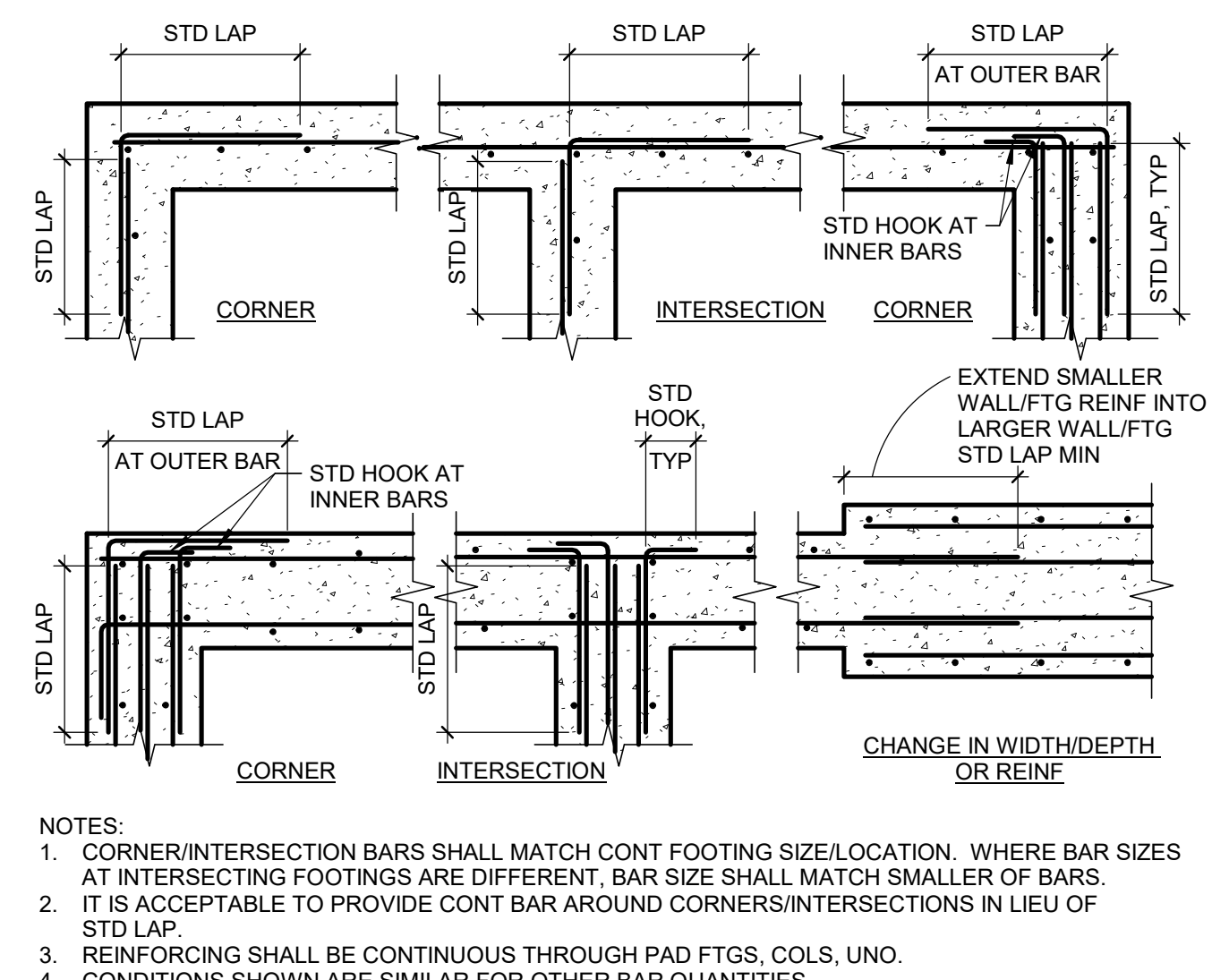
REBAR SIZE	DIA	180 DEG HOOK	90 DEG HOOK	135 DEG HOOK
		W (TOL +/-)	L (TOL +/-)	L (TOL +/-)
#3	4xd	2 1/4" (1/2")	3 3/4" (1/2")	3 1/2" (1")
#4	4xd	3" (1/2")	4" (1/2")	4 1/2" (1")
#5	4xd	3 3/4" (1/2")	4 1/2" (1/2")	5 3/4" (1")
#6	6xd	6" (1/2")	6" (1/2")	9" (1/2")
#7	6xd	7" (1/2")	7" (1/2")	10" (1/2")
#8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

**2 TYP REBAR HOOP, STIRRUP, TIE HOOKS & BENDS**  
SCALE: NTS S-032000\_T010A 140127

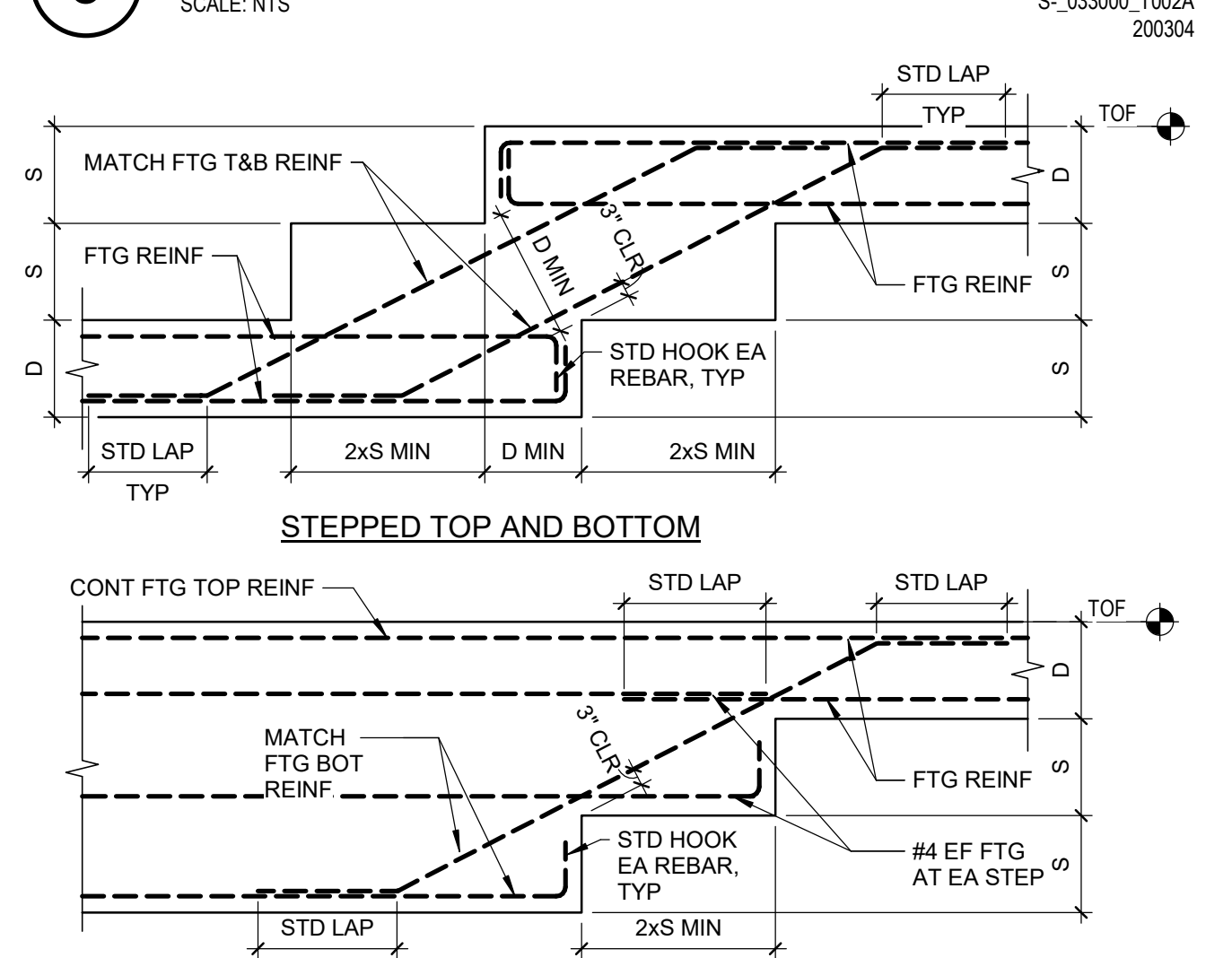
Fc (PSI)	#3	#4	#5	#6	#7	#8	#9	#10	#11
TOP	28	38	50	62	75	81	108	124	157
3,000	22	29	38	48	63	84	95	108	134
BOT	22	29	38	48	63	84	95	108	134

- NOTES:
- ALL LAP SPLICES SHALL BE FULL CONTACT SPLICES, UNO.
  - ADJACENT REINFORCING BEING LAP SPliced MUST MEET ONE OF THE FOLLOWING CONDITIONS:
    - 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.
    - 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.
    - FOR ALL OTHER CASES, MULTIPLY THE SPLICES SHOWN BY 1.5.
  - THE ABOVE VALUES ARE FOR: UNCOATED REINFORCEMENT, GRADE 60 REBAR, CLASS B.
  - 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.

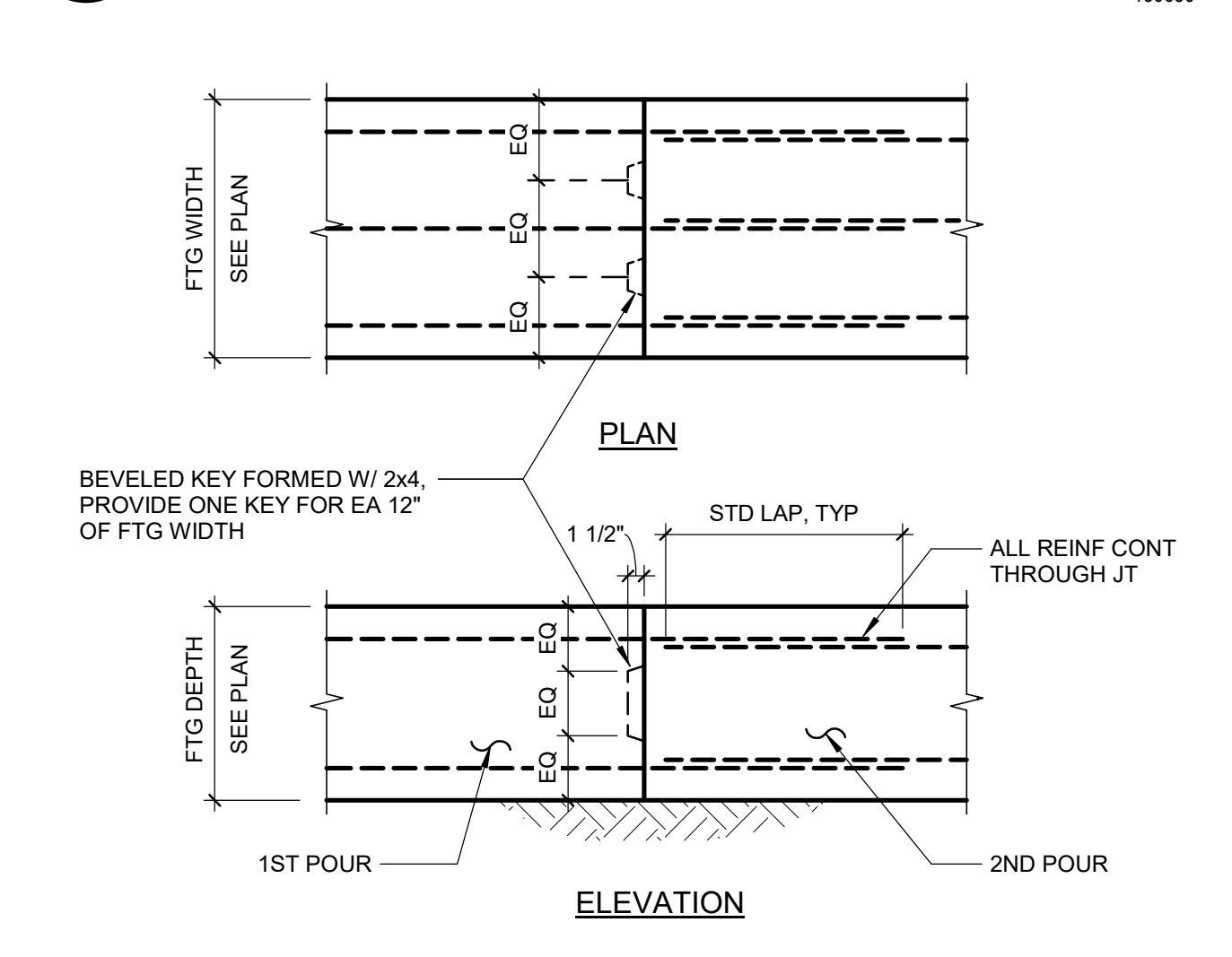
**3 TYP CONCRETE REBAR LAP SPLICE LENGTHS (INCHES)**  
SCALE: NTS S-032000\_T010A 140127



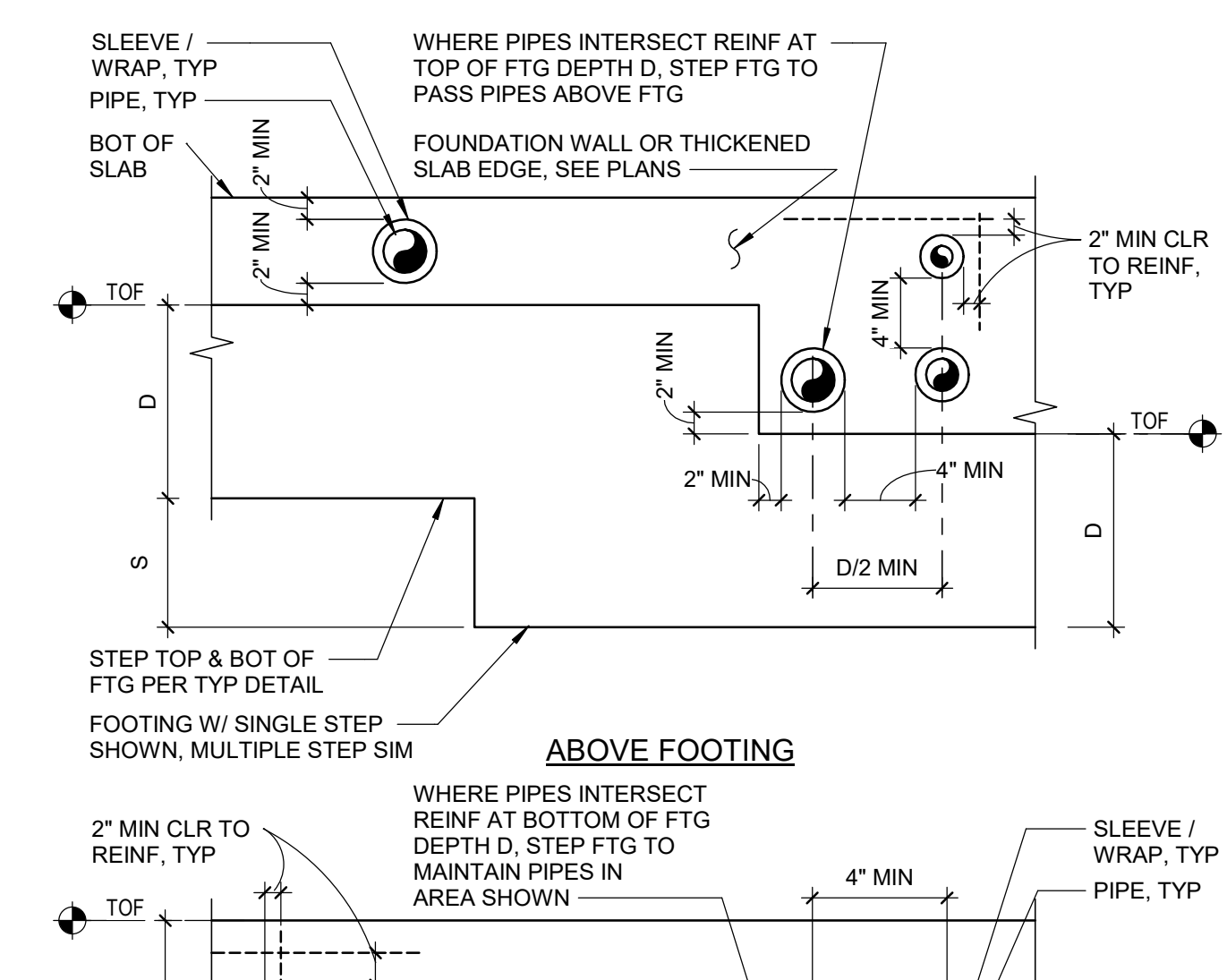
**5 TYP CONC FTG / WALL REINF AT CORNERS AND INTERSECTIONS**  
SCALE: NTS S-032000\_T010A 200304



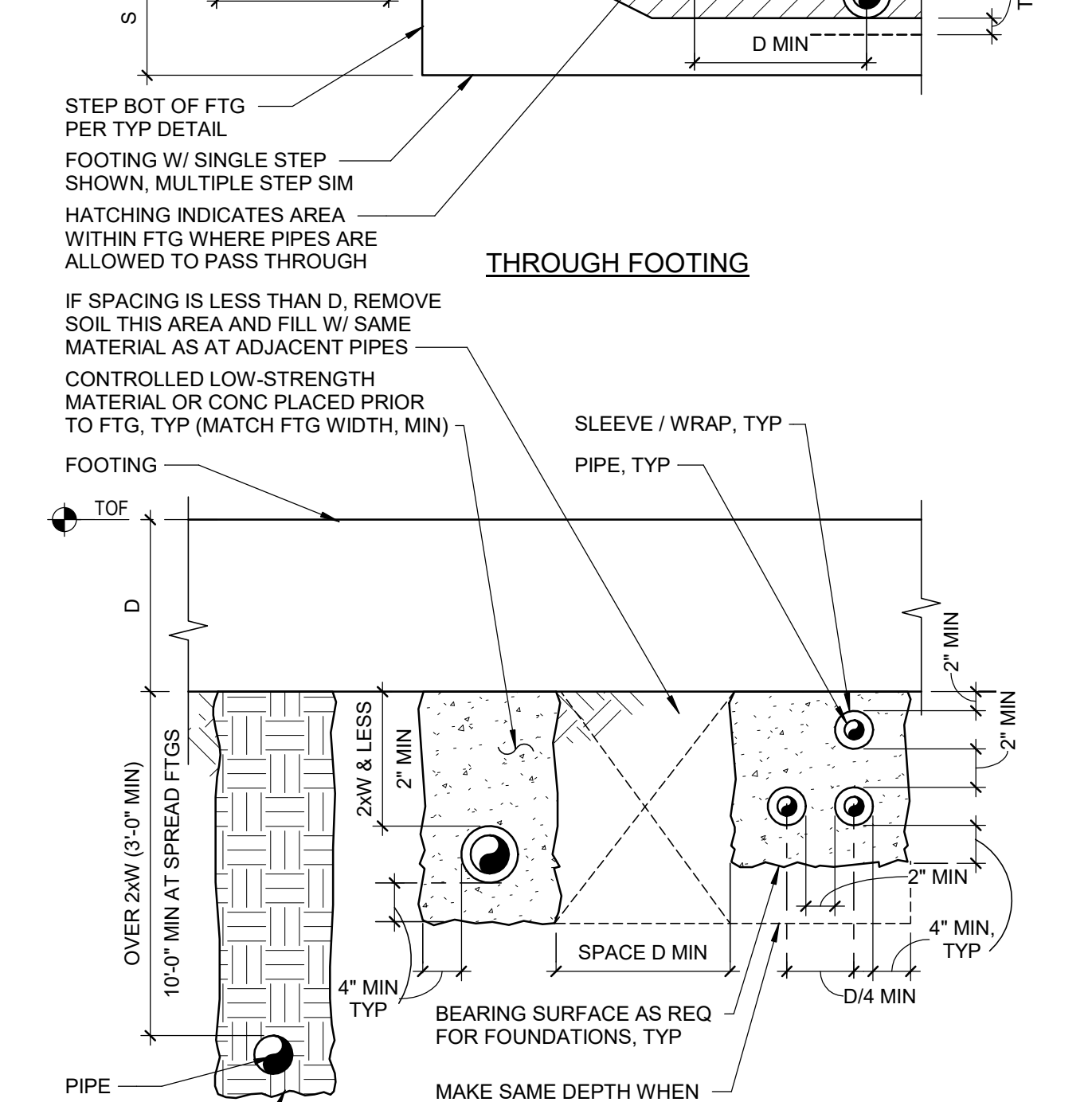
**6 TYP STEPPED FOOTING**  
SCALE: NTS S-032000\_T010A 150630



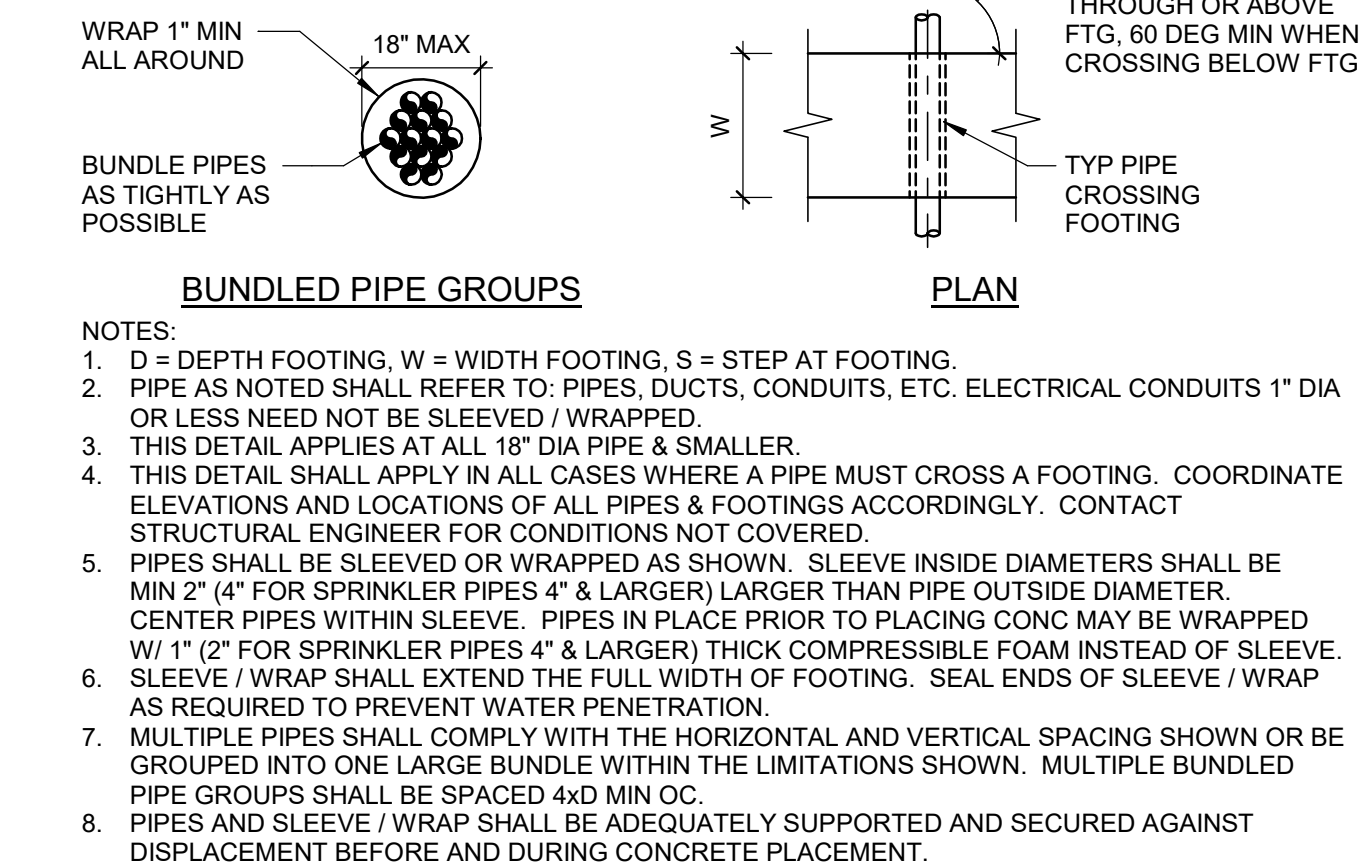
**7 TYP CONSTRUCTION JOINT AT GRADE BEAM/CONTINUOUS FOOTING**  
SCALE: NTS S-032000\_T010A 140127



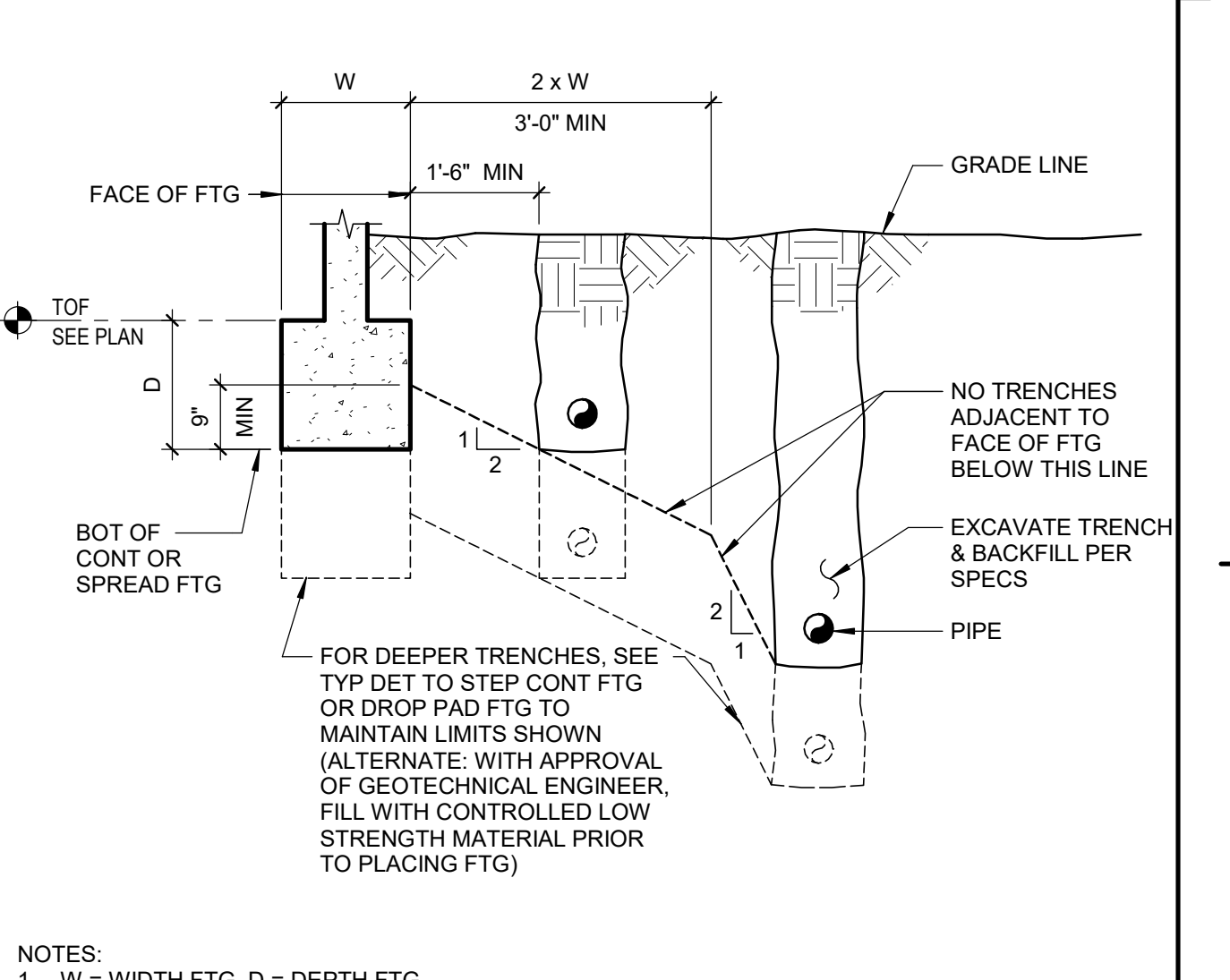
**15 TYP PIPE CROSSING FOOTINGS**  
3/4" = 1'-0" S-033000\_T016A 140114



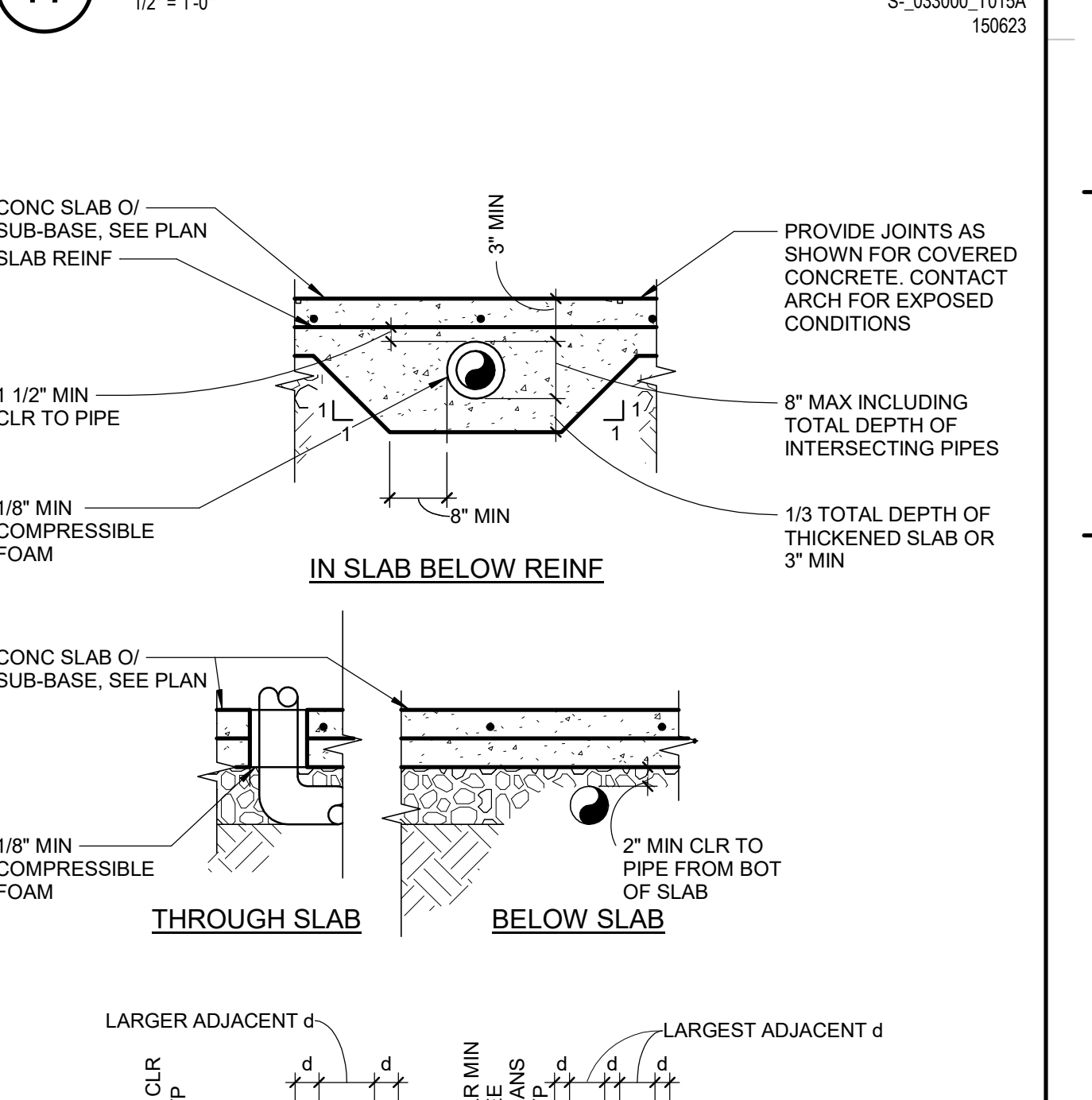
**17 TYP PIPE ADJACENT TO FOOTING**  
1/2" = 1'-0" S-033000\_T016A 150623



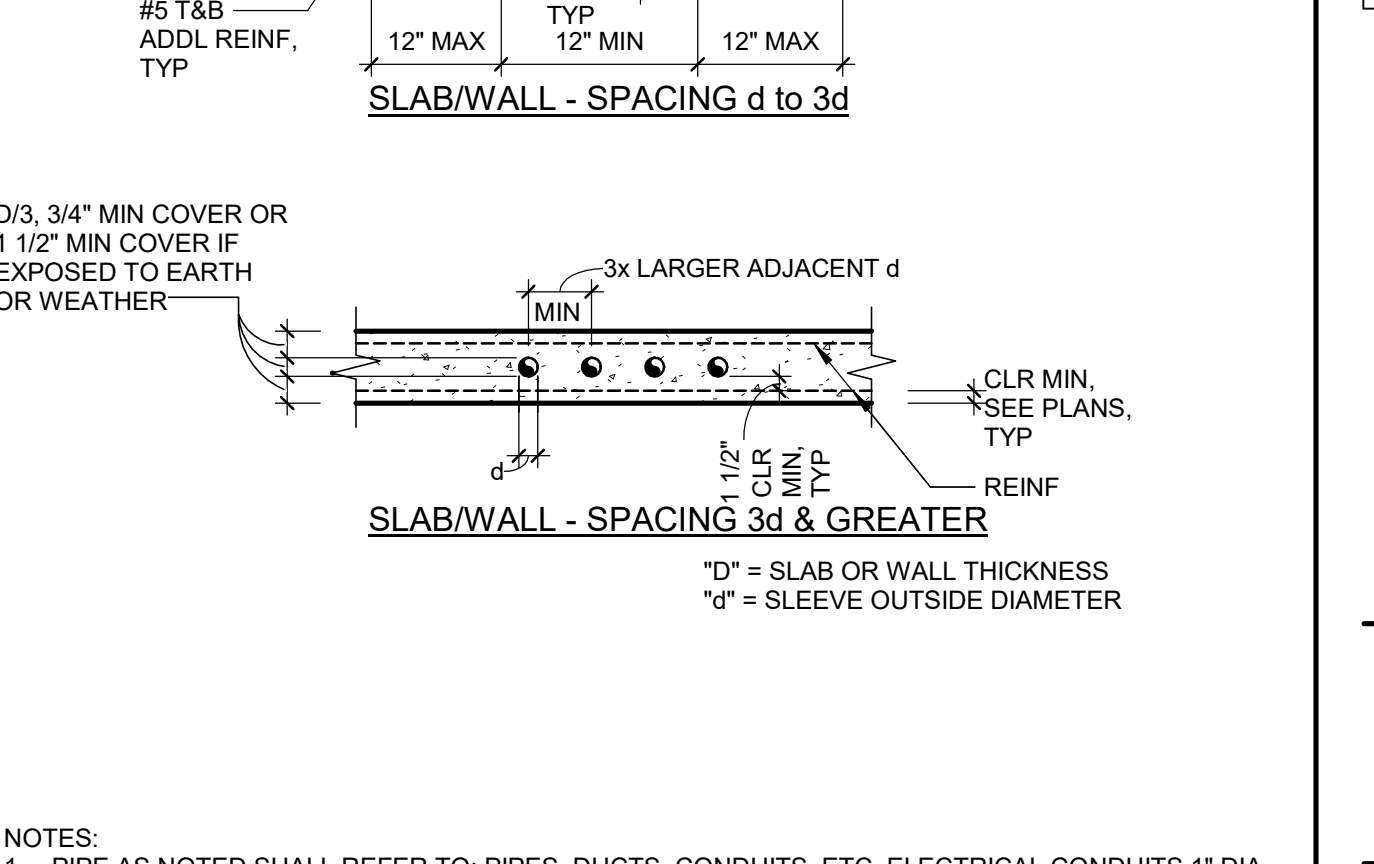
**15 TYP PIPE CROSSING FOOTINGS**  
3/4" = 1'-0" S-033000\_T016A 140114



**17 TYP PIPE ADJACENT TO FOOTING**  
1/2" = 1'-0" S-033000\_T016A 150623



**15 TYP PIPE CROSSING FOOTINGS**  
3/4" = 1'-0" S-033000\_T016A 140114



**17 TYP PIPE ADJACENT TO FOOTING**  
1/2" = 1'-0" S-033000\_T016A 150623

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PROJECT  
**LUTHER BURBANK HIGH SCHOOL  
ATHLETIC FIELDS RENOVATION**

3500 FLORIN ROAD  
SACRAMENTO, CA 95823

CLIENT  
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

5735 47TH AVENUE, SACRAMENTO, CA 95824

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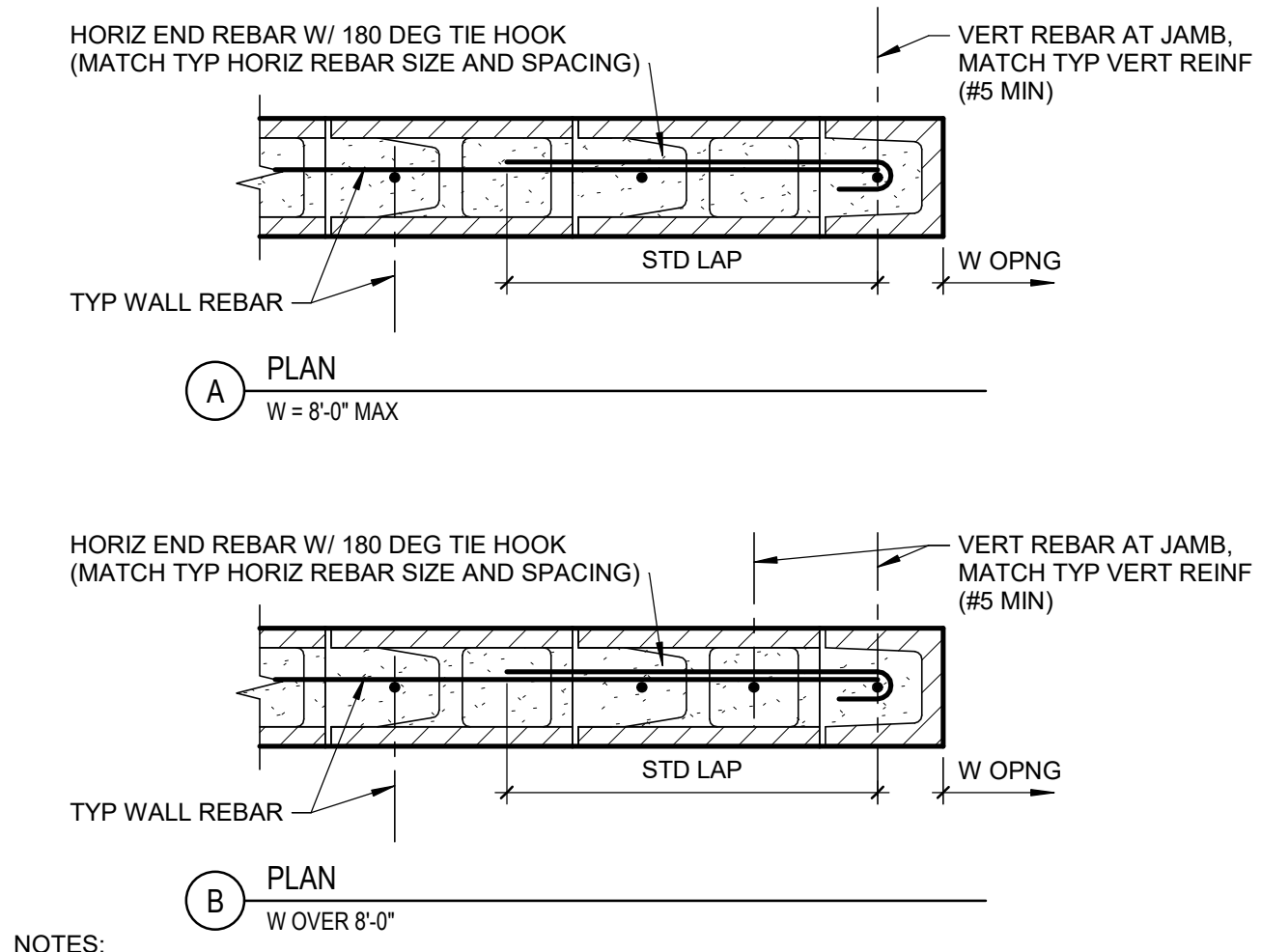
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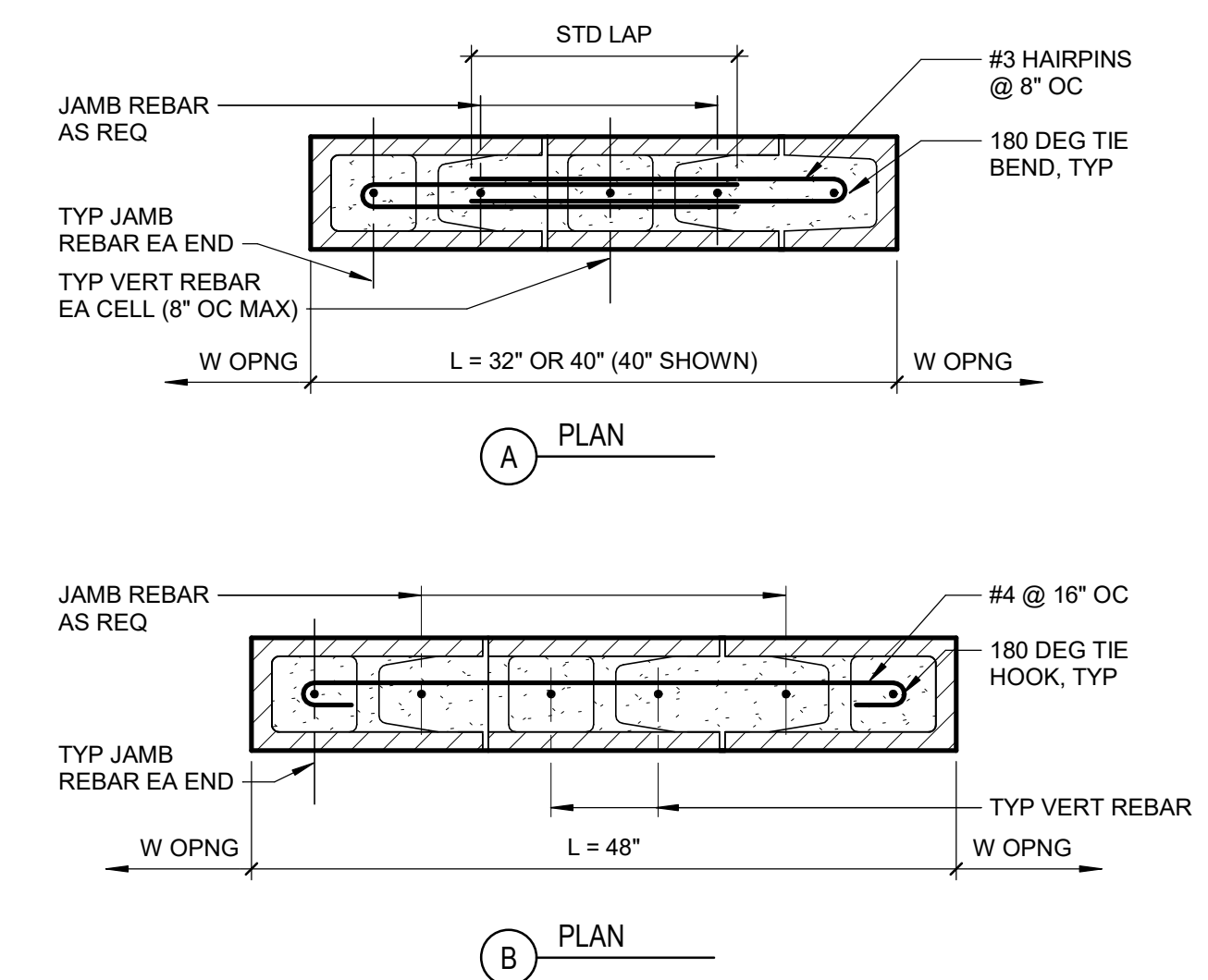
**17 TYP PIPE ADJACENT TO FOOTING**  
1/2" = 1'-0" S-033000\_T016A 140127

TITLE  
**DETAILS - TYPICAL  
CONCRETE**

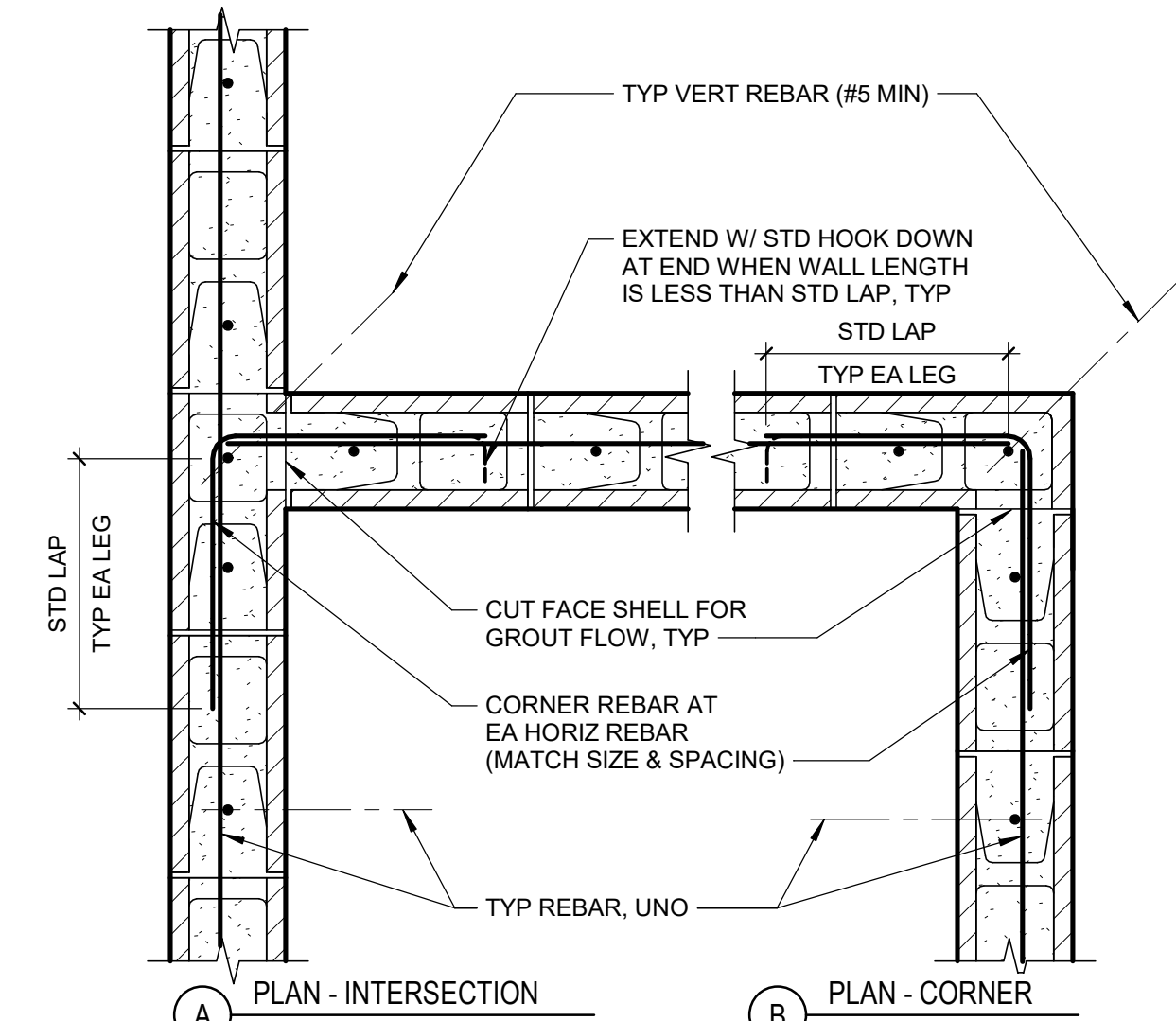
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**S-531**



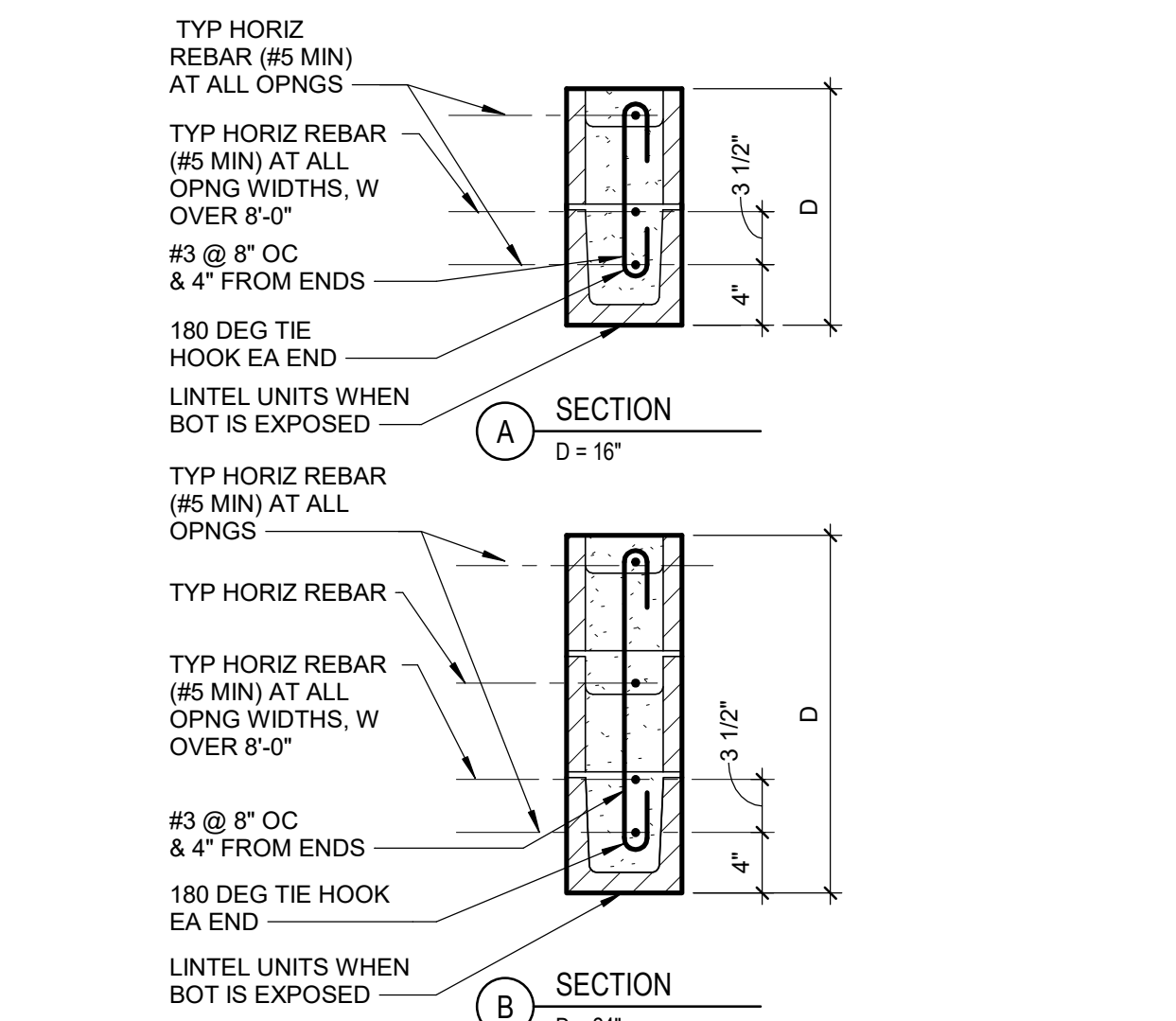
**2 TYP MASONRY JAMB / END**  
 1" = 1'-0"  
 S\_048200\_T020A 190429



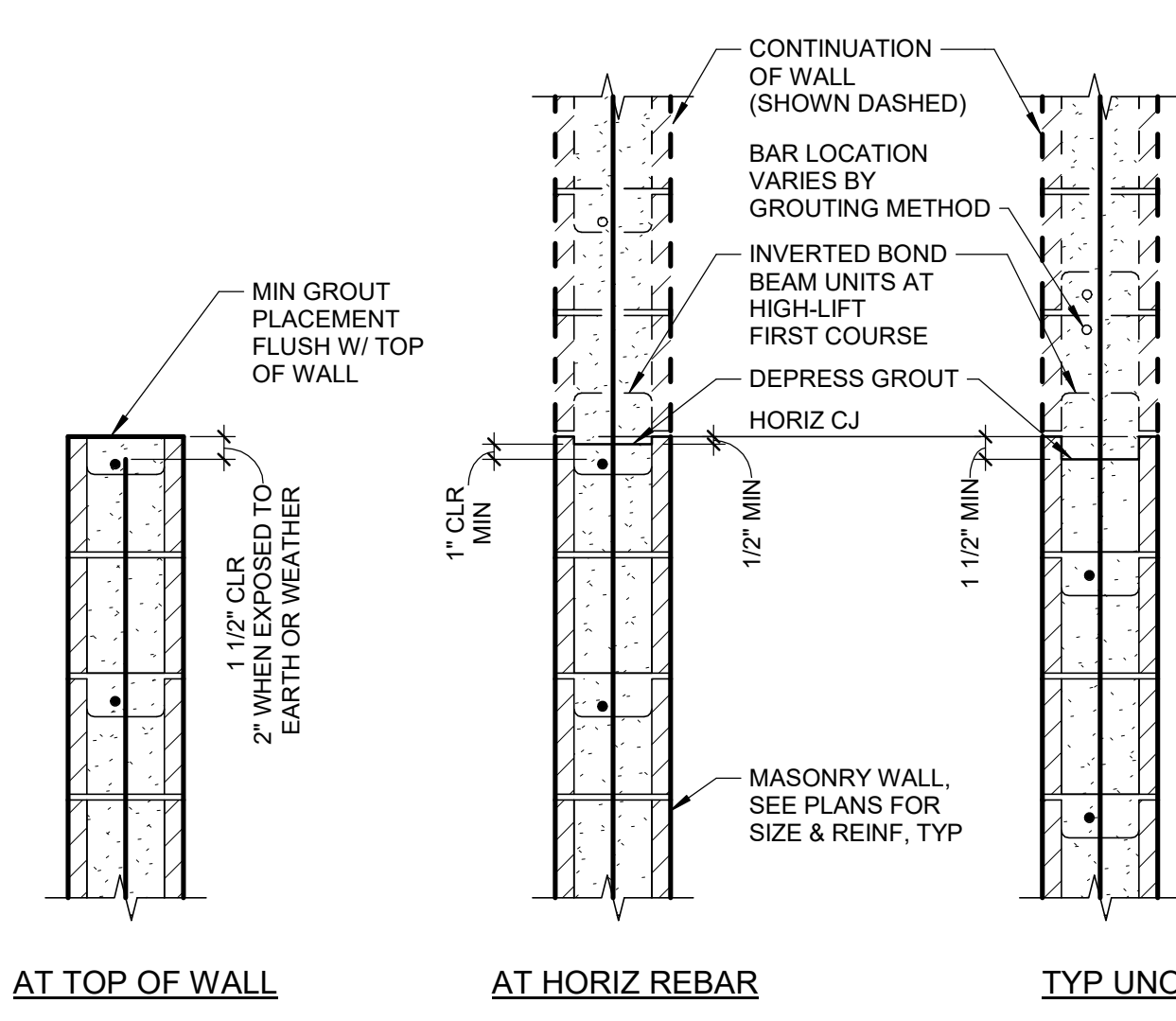
**3 TYP MASONRY LONG PIER**  
 1" = 1'-0"  
 S\_048200\_T021A 190525



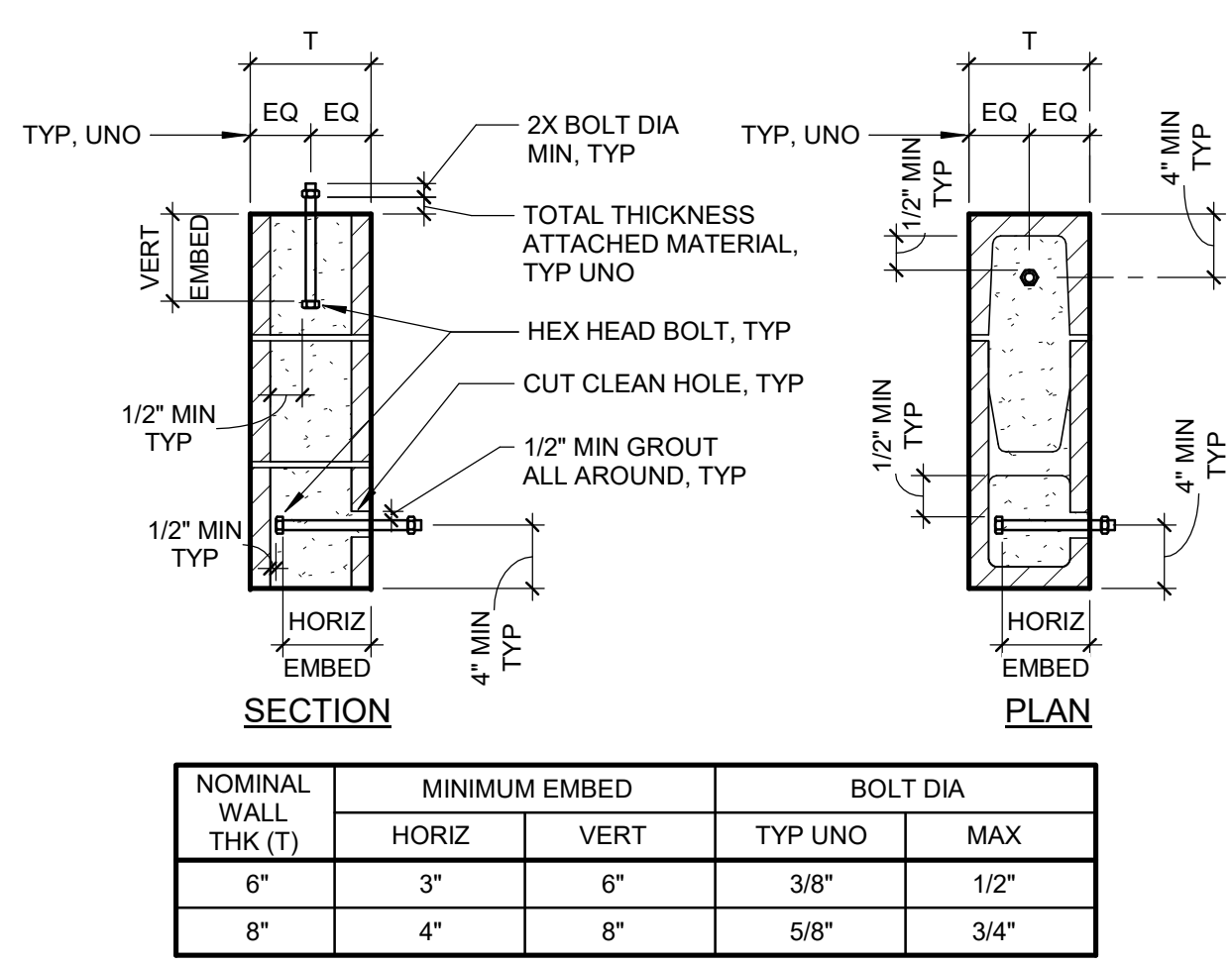
**6 TYP MASONRY INTERSECTIONS**  
 1" = 1'-0"  
 S\_048200\_T021B 190425



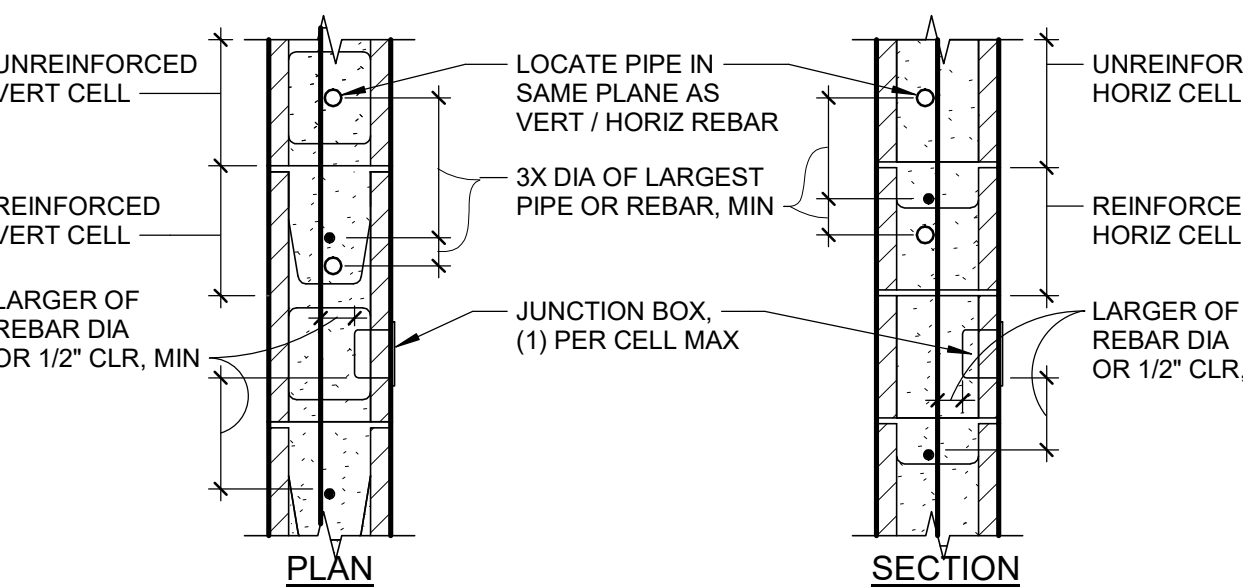
**8 TYP MASONRY SHALLOW LINTEL**  
 1" = 1'-0"  
 S\_048200\_T023A 190506



**10 TYP MASONRY GROUT CJ**  
 SCALE: NTS  
 S\_048200\_T004A 190506

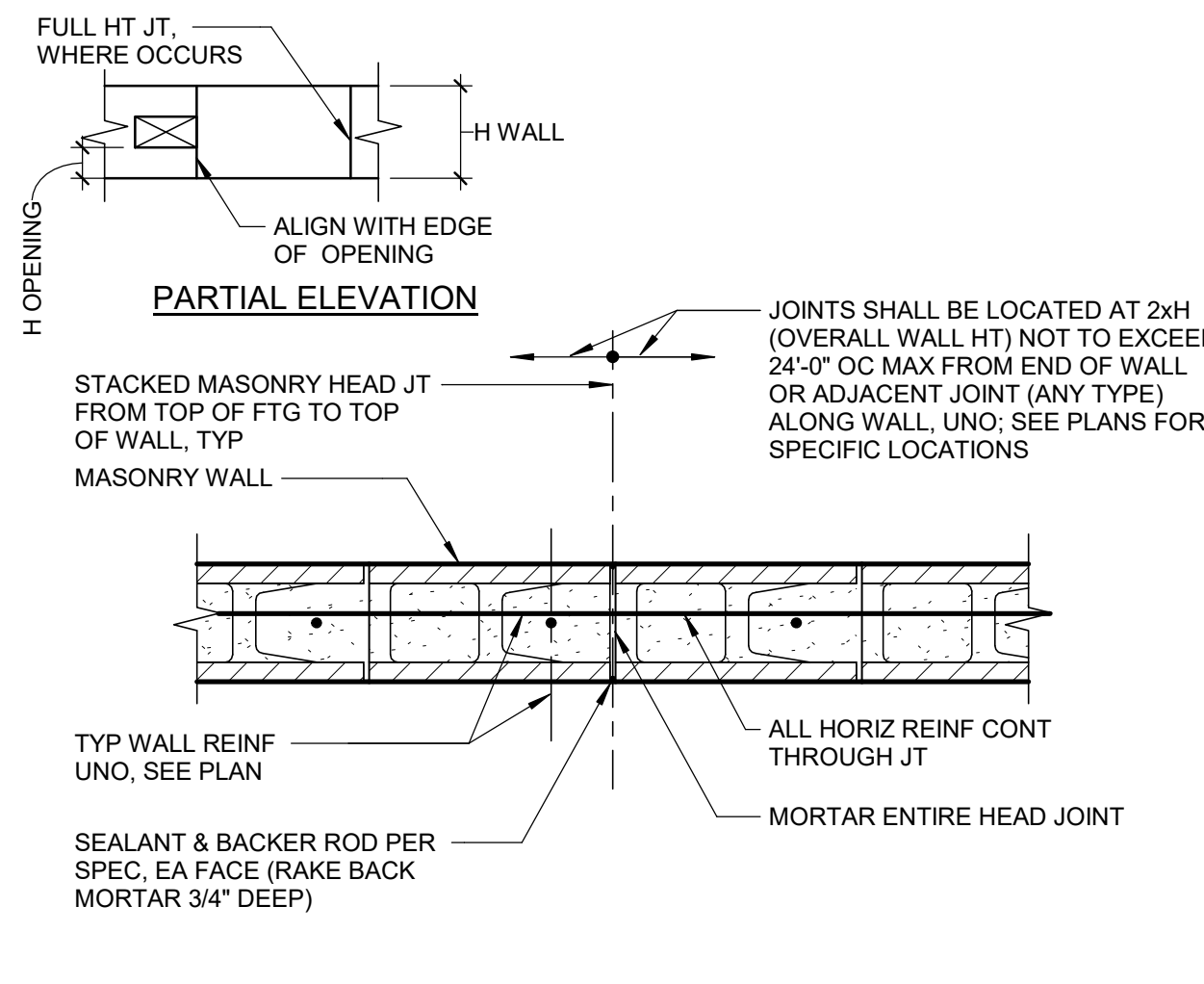


**11 TYP BOLT EMBED IN MASONRY**  
 SCALE: NTS  
 S\_048200\_T004A 190506

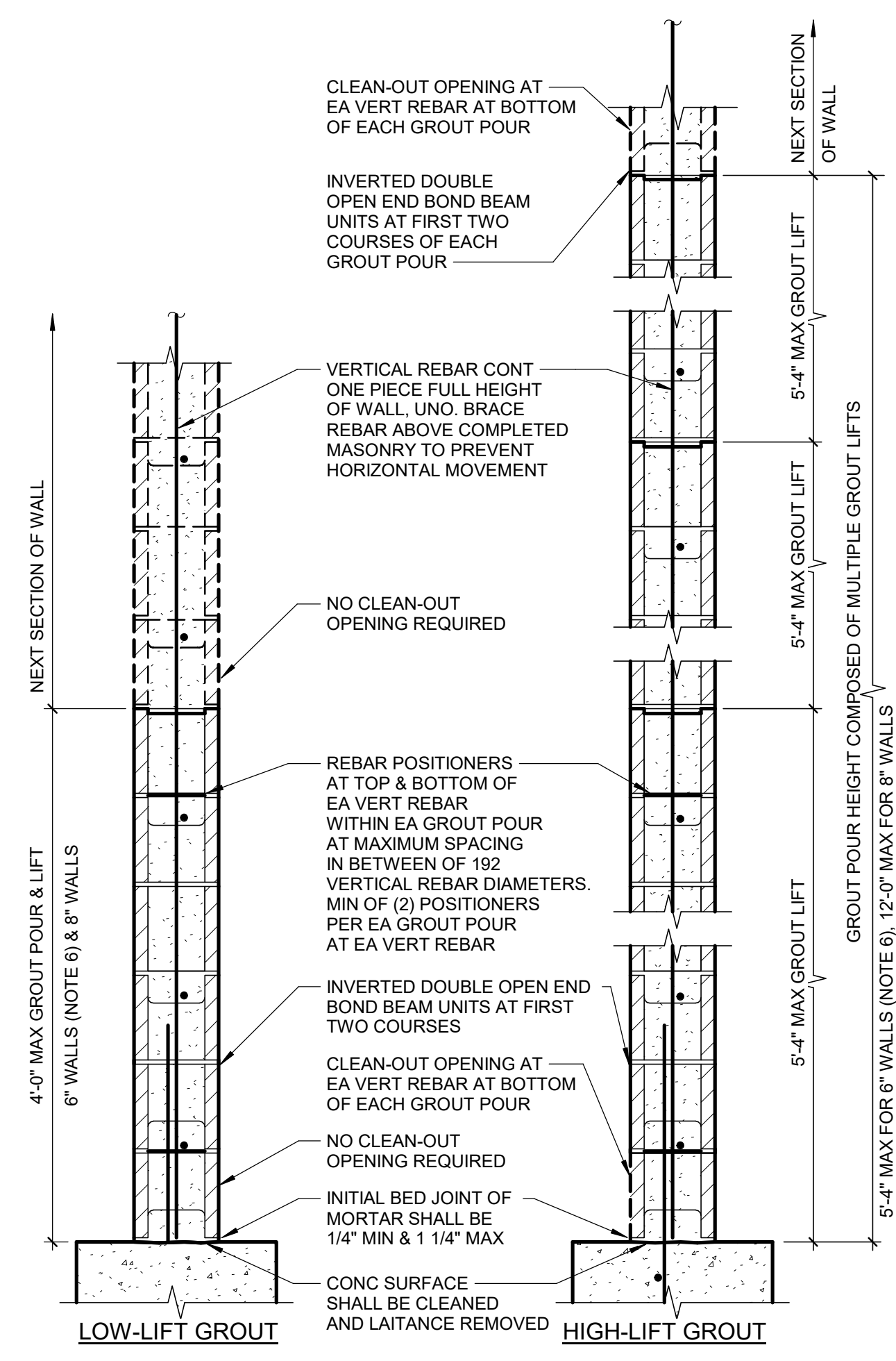


**12 TYP PIPE EMBED IN MASONRY**  
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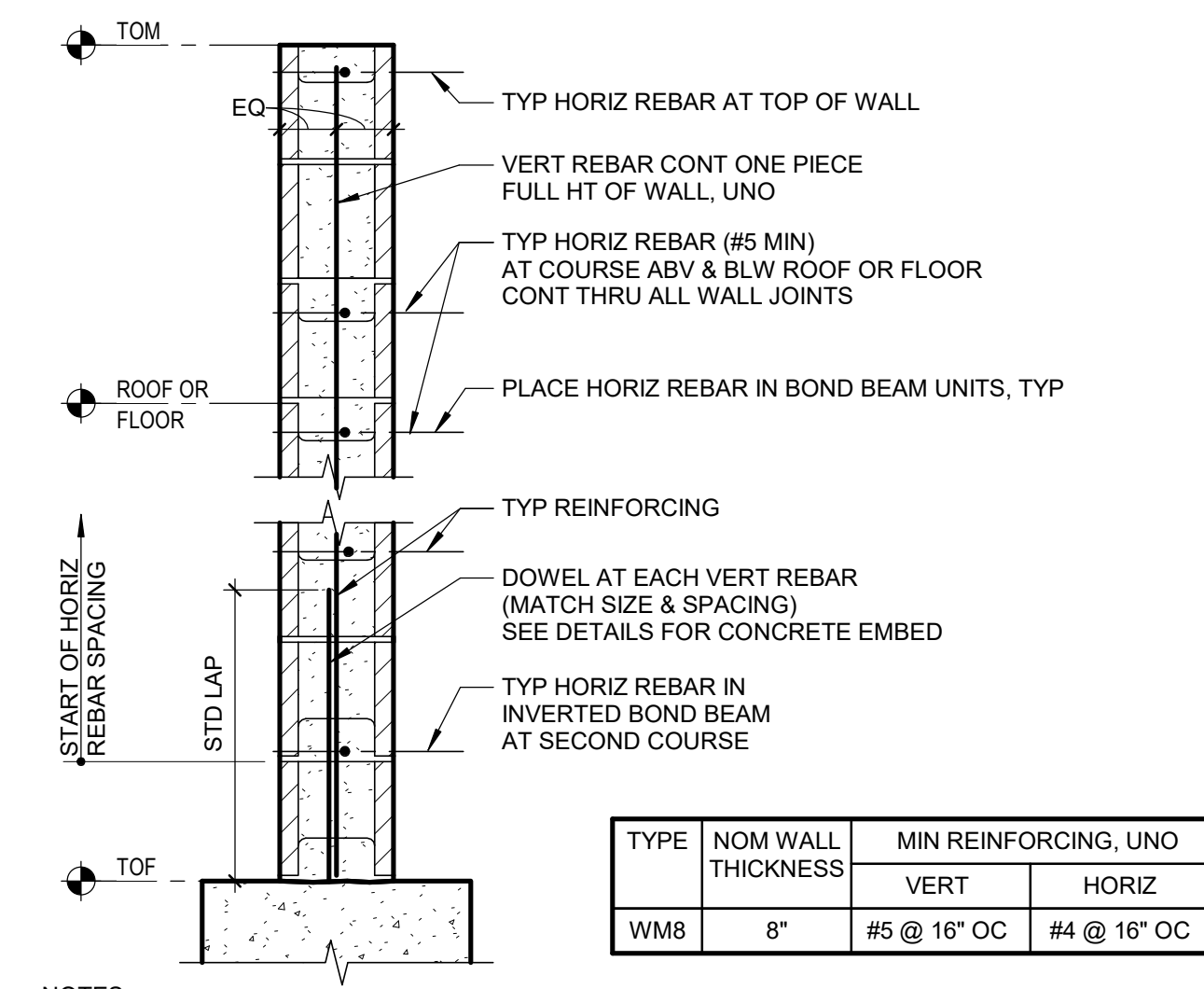
NOMINAL WALL THICKNESS	MAX QUANTITY OF PIPES PER CELL						COMMENTS
	1/2" DIA	3/4" DIA	1" DIA	1 1/4" DIA	1 1/2" DIA		
8"	1	2	1	-	-	-	R = REINFORCED CELL U = UNREINFORCED CELL
8"	2	3	1	2	-	-	



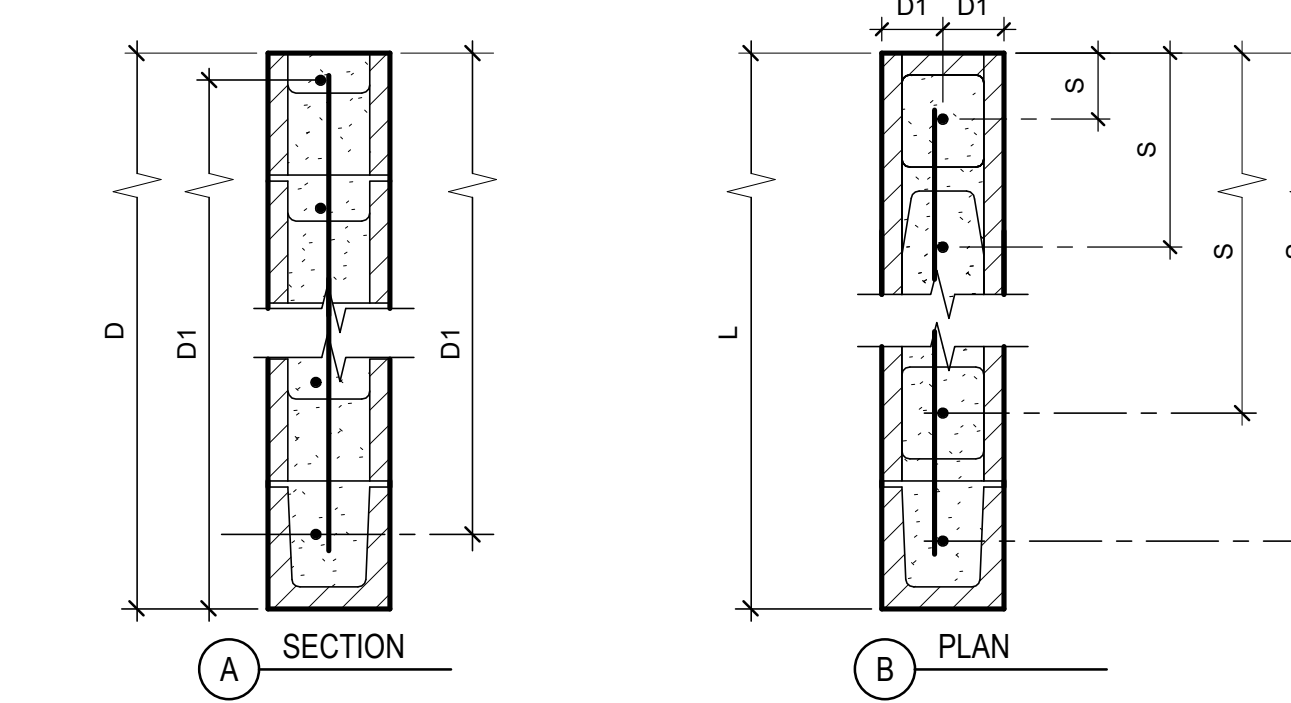
**13 TYP MASONRY RAKE JOINT**  
 SCALE: NTS  
 S\_048200\_T010A 190427



**18 TYP MASONRY GROUTING**  
 SCALE: NTS  
 S\_048200\_T017A 200302



**19 TYP MASONRY WALL REINF**  
 SCALE: NTS  
 S\_048200\_T020B 190506



**20 TYP MASONRY REINF TOLERANCE**  
 SCALE: NTS  
 S\_048200\_T023B 190706

PLACEMENT TOLERANCE D1	PLACEMENT TOLERANCE S
D1 EQUALS 8" OR LESS	L EQUALS 8" OR LESS
D1 OVER 8" UP TO 24"	L OVER 8" UP TO 24"
D1 OVER 24"	L OVER 24"

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PROFESSIONAL ENGINEER  
 CIVIL  
 No. 55115  
 State of California  
 12/19/2023

PROJECT  
**LUTHER BURBANK HIGH SCHOOL  
 ATHLETIC FIELDS RENOVATION**

3500 FLORIN ROAD  
 SACRAMENTO, CA 95823

CLIENT  
 SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

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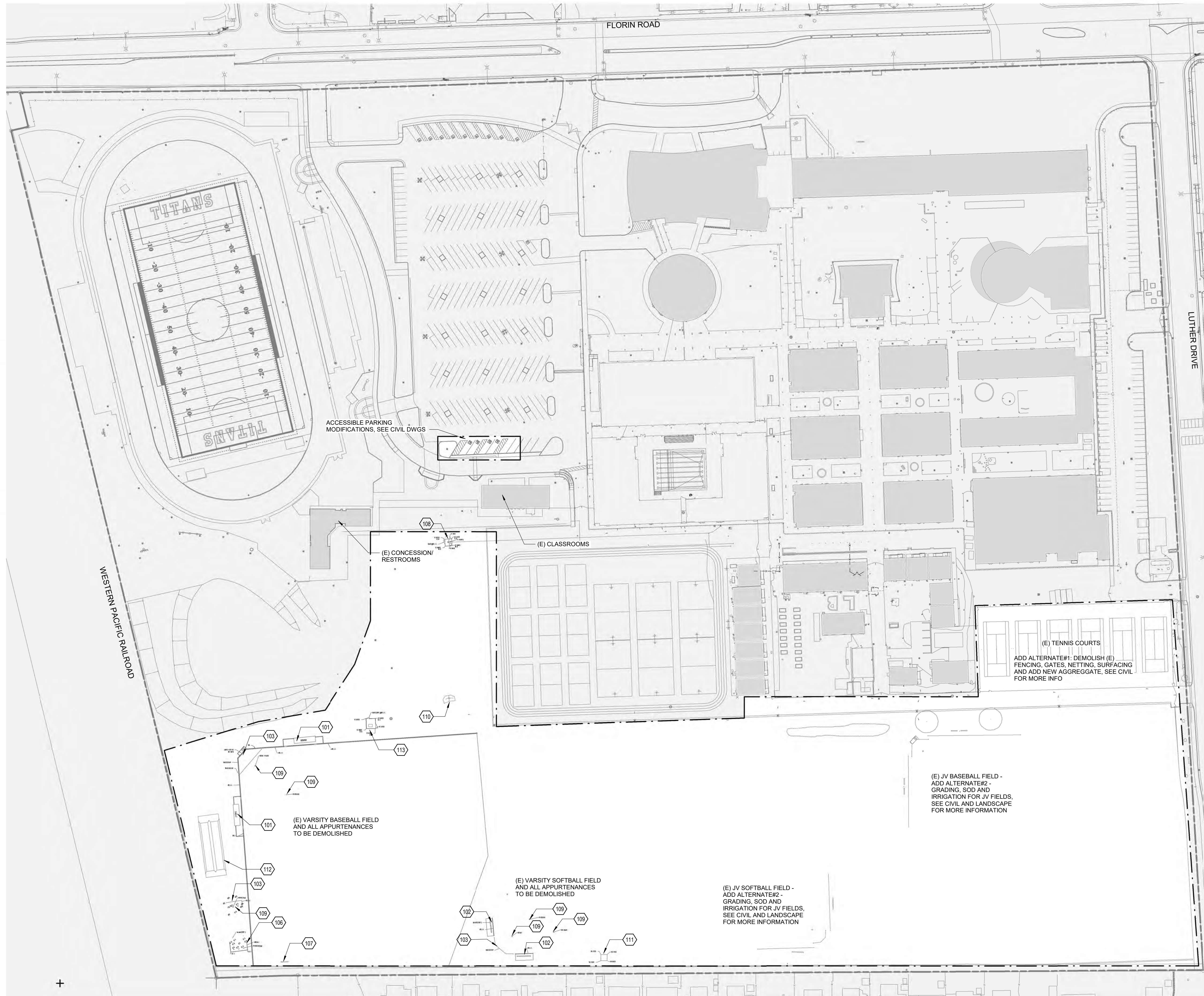
TITLE  
**DETAILS - TYPICAL  
 MASONRY**

SHEET  
**S-541**

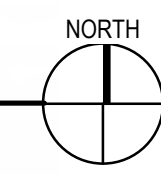


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**1 SITE PLAN - EXISTING SITE PLAN**  
SCALE 1/8" = 1'-0"



**GENERAL NOTES**

- (E) SITE ELEMENTS SHOWN TO BE DEMOLISHED IN THEIR ENTIRETY INCLUDING ALL UNDERGROUND CONCRETE FOOTINGS AND UTILITY LINES.
- 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.
- CONTRACTOR SHALL PATCH AND REPAIR ALL ADJACENT AREAS AFFECTED BY DEMOLITION AS REQUIRED TO MATCH EXISTING CONDITIONS
- ALL AREAS ON DEMOLITION PLANS ARE FOR REFERENCE ONLY. CONTRACTOR IS EXPECTED TO FIELD VERIFY ALL AREAS TO DETERMINE SPECIFIC SCOPE FOR EACH ITEM.
- ALL SAFEGUARDS MUST BE ADHERED TO DURING CONSTRUCTION AND DEMOLITION PER CFC & CBC CHAPTER 33.
- SEE OTHER DISCIPLINES FOR ADDITIONAL DEMOLITION SCOPE NOT NOTED HERE.
- PRIOR TO CONSTRUCTION, CONTRACTOR SHALL COORDINATE LOCATIONS FOR SITE ACCESS, TEMPORARY FENCING, TRAILERS, CONEX BOXES, AND LAY-DOWN / STAGING AREAS WITH DISTRICT REPRESENTATIVES, AND SHALL VERIFY LOCATIONS ARE ACCEPTABLE WITH LOCAL FIRE A/H.
- ALL EXISTING UTILITIES, SUCH AS BUT NOT LIMITED TO: WATER, SEWER, GAS AND DATA SHALL BE CAPPED. CONTRACTOR TO PROVIDE SOV AS NEEDED
- NO DEMOLITION SHALL BEGIN UNTIL PLANS INCLUDING THE DEMOLITION WORK HAVE BEEN APPROVED BY DSA.
- PRIOR TO DEMOLITION, CONTRACTOR SHALL COORDINATE WITH DISTRICT TO RESOLVE DEMOLISHED ITEMS TO BE SALVAGED. CONTRACTOR SHALL PROVIDE DISTRICT FIRST ITEMS. CONTRACTOR SHALL RELOCATE ITEMS TO BE SALVAGED TO AREA OF CAMPUS AS DIRECTED BY DISTRICT REPRESENTATIVES
- 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.

**LEGENDS**

- PROPERTY LINE
- LIMITS OF ARCHITECTURAL SCOPE OF WORK

**KEYNOTES**

- DEMOLISH EXISTING BASEBALL DUGOUTS IN THEIR ENTIRETY
- DEMOLISH EXISTING SOFTBALL DUGOUTS IN THEIR ENTIRETY
- EXISTING CHAINLINK FENCE & GATE TO BE REMOVED
- DEMOLISH EXISTING BULLPEN IN ITS ENTIRETY
- DEMOLISH EXISTING SCOREBOARD IN ITS ENTIRETY
- DEMOLISH EXISTING ENCLOSURE, SEE CIVIL AND ELEC DWG
- EXISTING BASES TO BE DEMOLISHED; TYP
- DIRT AND DEBRIS PILE TO BE REMOVED
- EXISTING CONCRETE PAVING AND BASE AGGREGGATES TO BE DEMOLISHED
- EXISTING BATTING CAGE ENCLOSURE TO REMAIN. DEMO EXISTING SYNTHETIC TURF, SEE CIVIL FOR MORE INFO
- EXISTING IRRIGATION CONTROLLER, BOOSTER, FENCING AND CONC TO BE REMOVED, SEE CIVIL AND LA DWGS FOR MORE INFO



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**LUTHER BURBANK HIGH SCHOOL  
ATHLETIC FIELDS RENOVATION**

3500 FLORIN ROAD  
SACRAMENTO, CA 95823

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

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TITLE

**SITE DEMOLITION PLAN**

SHEET

**AD101**

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

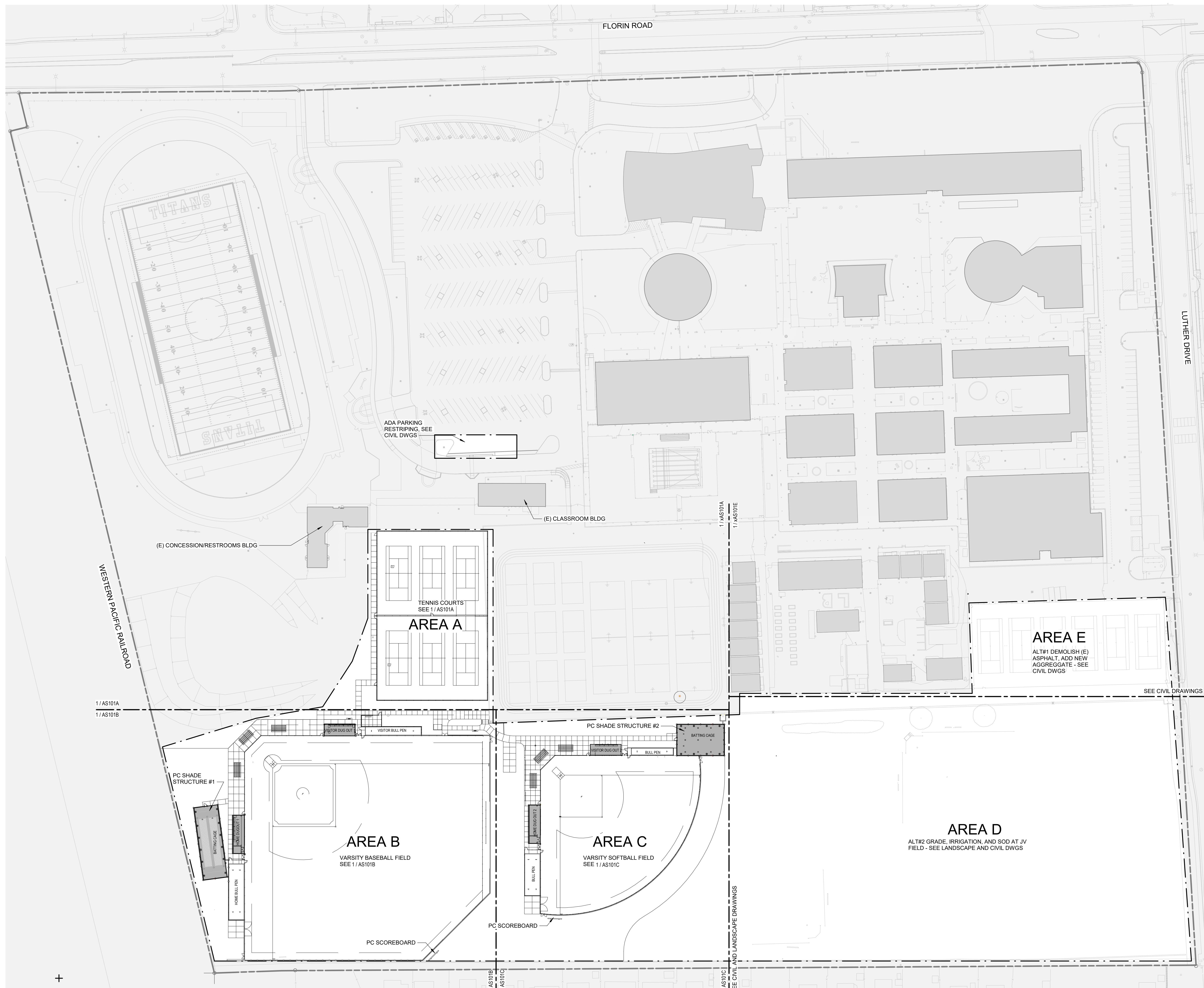
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C

B

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1/10/2023 3:28:15 PM



**1 SITE PLAN - OVERALL**  
SCALE: 1" = 60'-0"

**GENERAL NOTES**

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

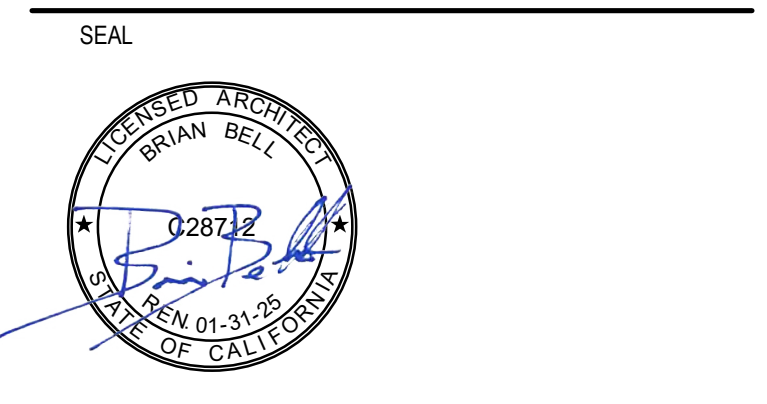
**LEGEND**

- LIMITS OF ARCHITECTURAL SCOPE OF WORK
- (E) SITE W/ NO SCOPE OF WORK
- (E) BUILDING (NOT IN SCOPE)
- STRUCTURE UNDER THE SCOPE OF WORK

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PROJECT  
**LUTHER BURBANK HIGH SCHOOL  
ATHLETIC FIELDS RENOVATION**

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TITLE  
**SITE PLAN - OVERALL**

SHEET  
**AS101**

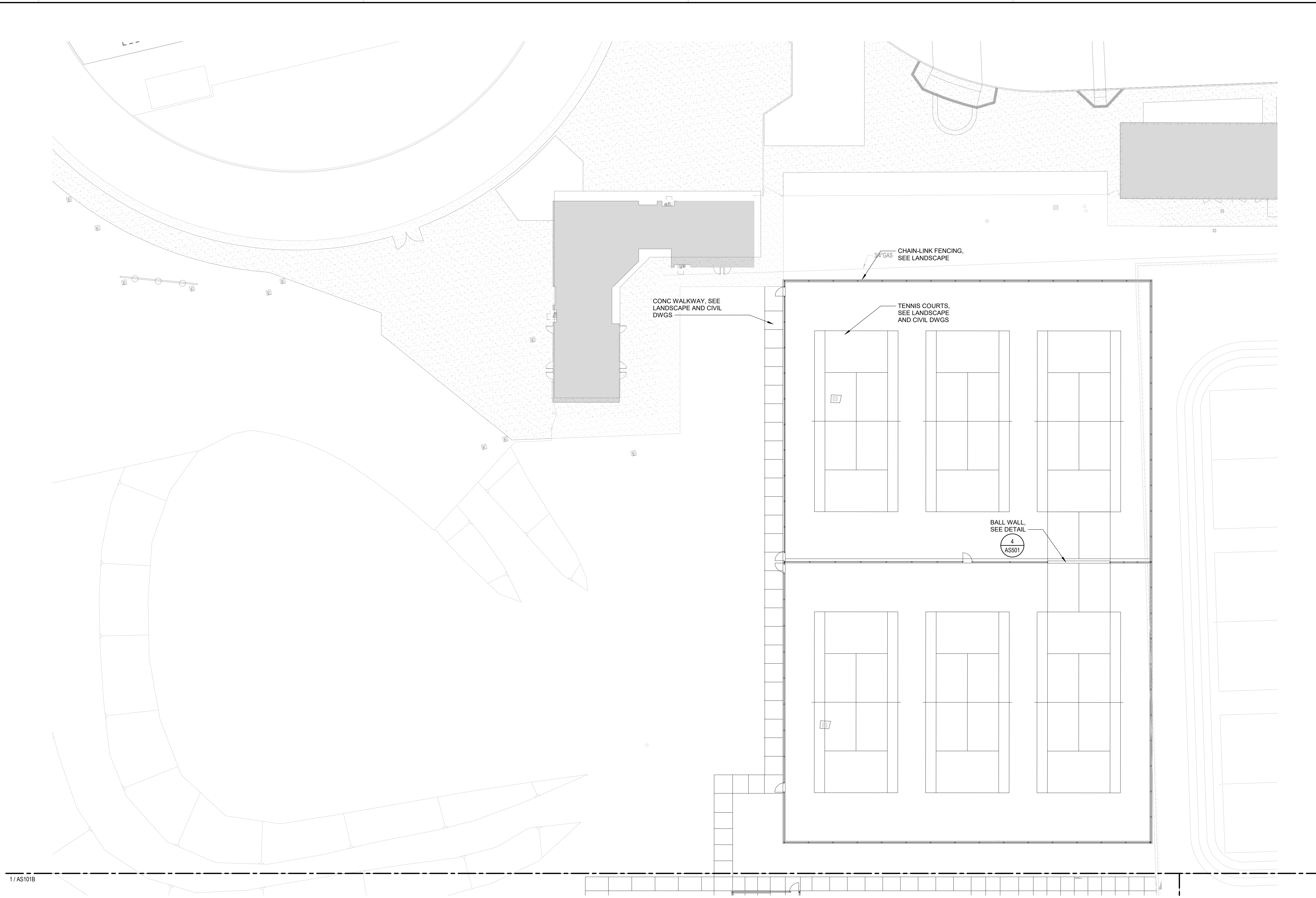
0 1/4" 1/2" 1" IF THIS SHEET IS NOT 30"x42" IT IS A REDUCED PRINT - SCALE ACCORDINGLY

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BM 100.002041 SQUID Burbank HS Plans 02/04\_ARCHITECT\_ECOL CENTRAL.rvt

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**1** SITE PLAN - ENLARGED AREA - TENNIS COURTS  
SCALE 1" = 20'-0"

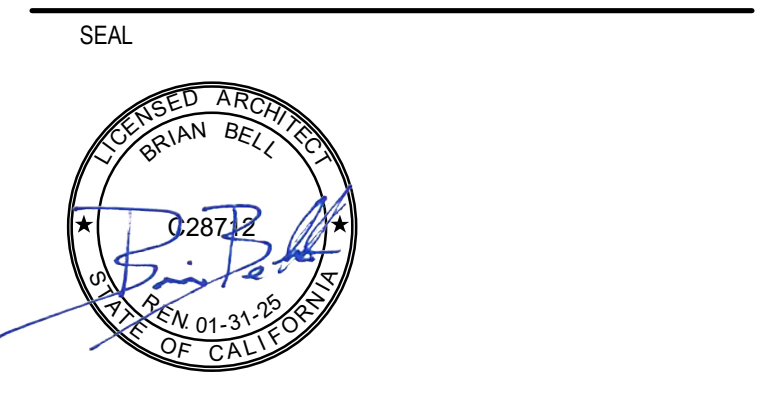
**GENERAL NOTES**

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

**LEGEND**

- LIMITS OF ARCHITECTURAL SCOPE OF WORK
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- STRUCTURE UNDER THE SCOPE OF WORK

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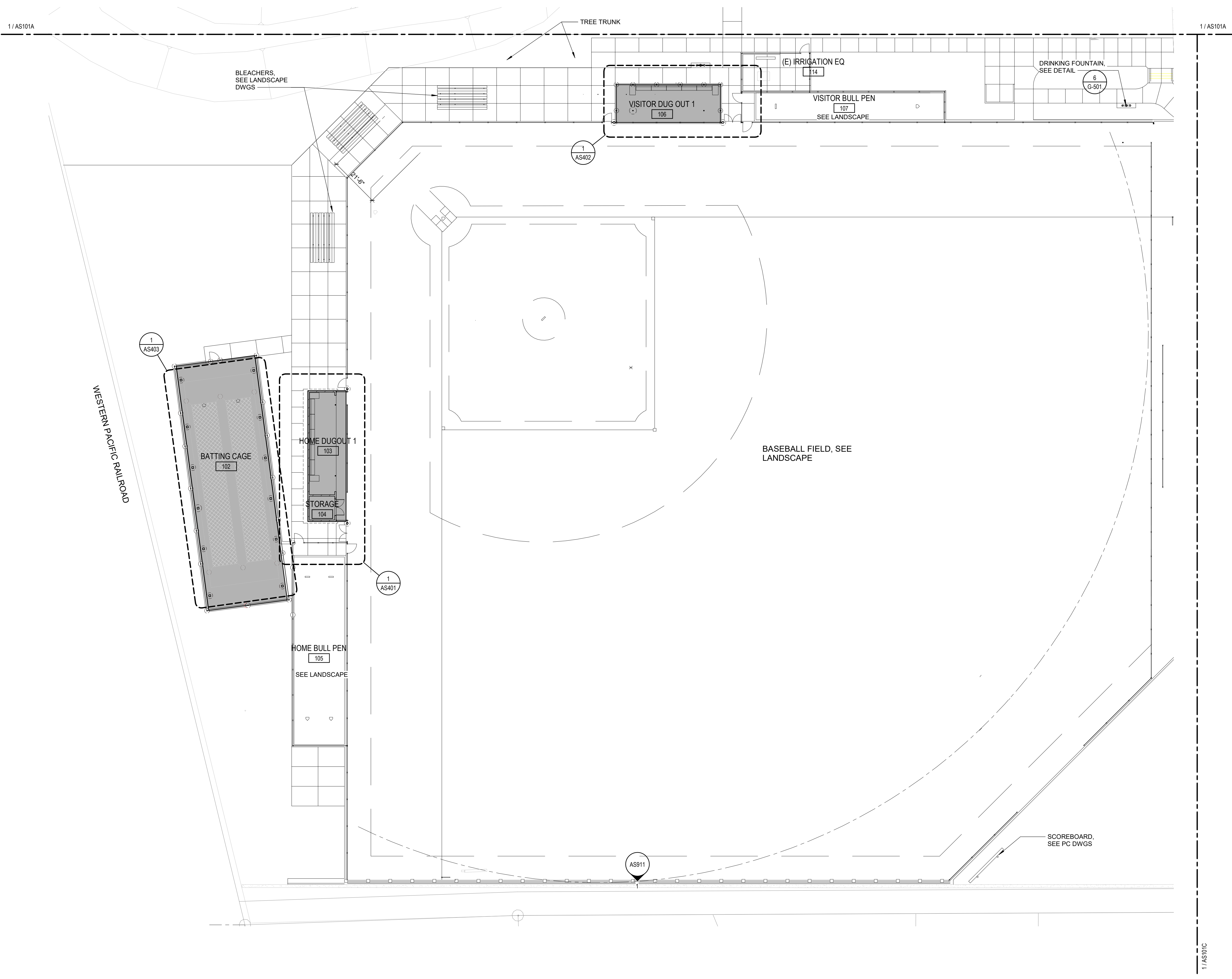
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TITLE  
**SITE PLAN - AREA A -  
 TENNIS COURTS**

SHEET  
**AS101A**

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 V  
 W  
 X  
 Y  
 Z



**1 SITE PLAN - ENLARGED AREA - VARSITY BASEBALL**  
 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 AND LANDSCAPE DRAWINGS FOR PATH OF TRAVEL IMPROVEMENT.
4. SEE CIVIL AND LANDSCAPE DRAWINGS FOR DIMENSIONS NOT OTHERWISE SHOWN ON THIS DRAWING.
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8. SEE OTHER DISCIPLINE DOCUMENTS FOR ADDITIONAL SCOPE OF WORK

**LEGEND**

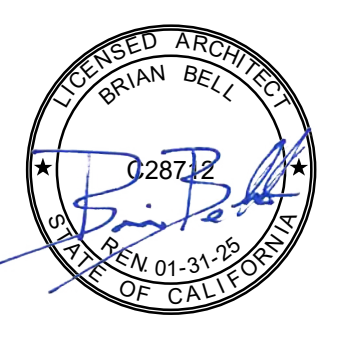
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- STRUCTURE UNDER THE SCOPE OF WORK



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 ATHLETIC FIELDS RENOVATION**

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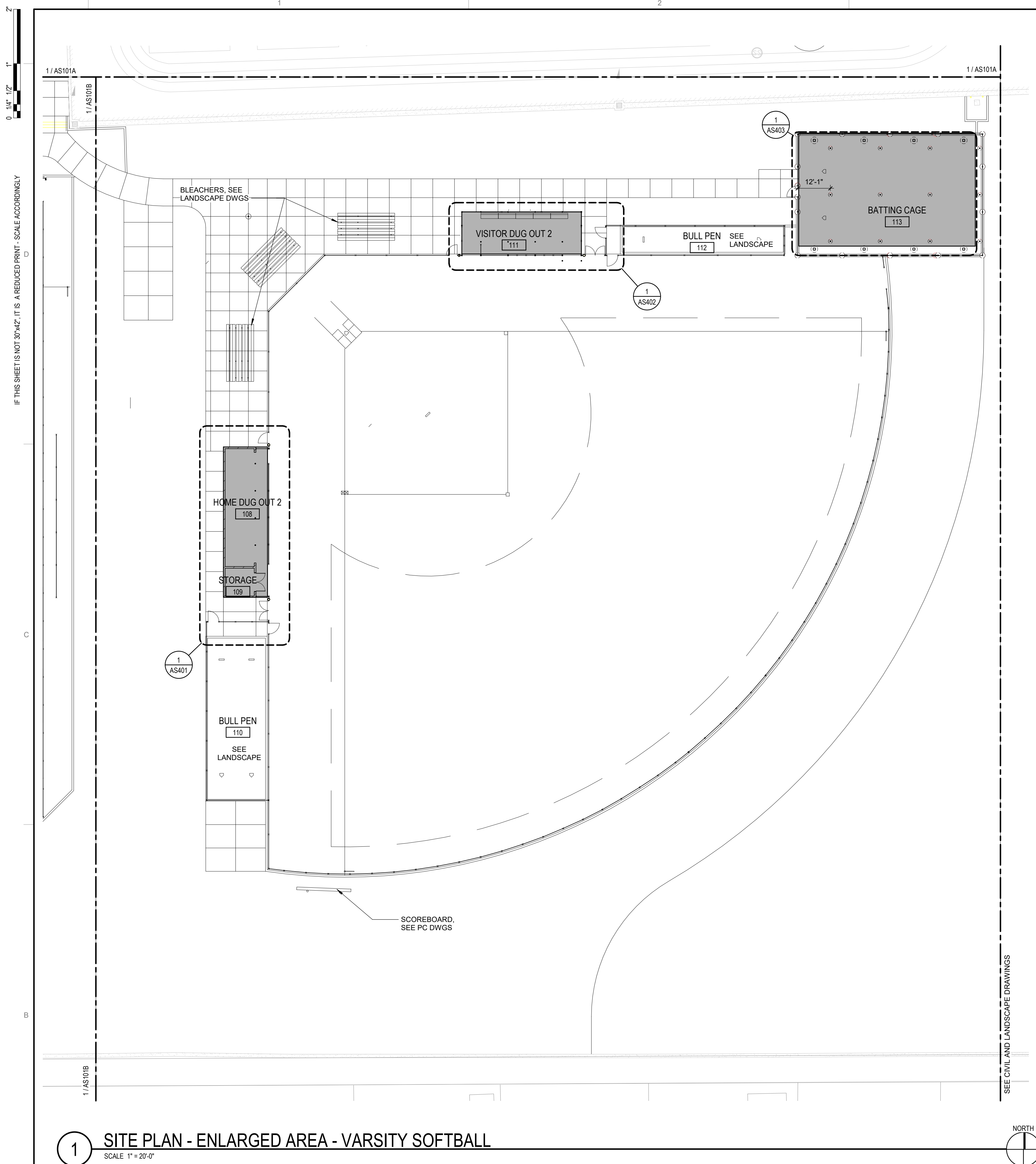
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TITLE  
**SITE PLAN - AREA B -  
 VARSITY BASEBALL  
 FIELD**

SHEET  
**AS101B**



1 SITE PLAN - ENLARGED AREA - VARSITY SOFTBALL  
SCALE 1" = 20'-0"

**GENERAL NOTES**

1. SEE SHEETS GA101 FOR ACCESSIBLE PATH OF TRAVEL.
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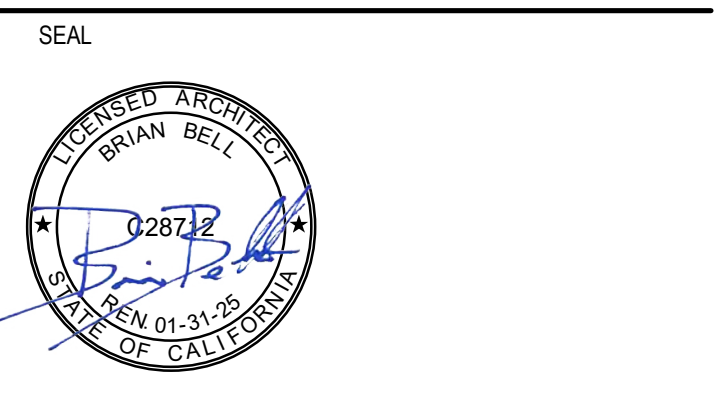
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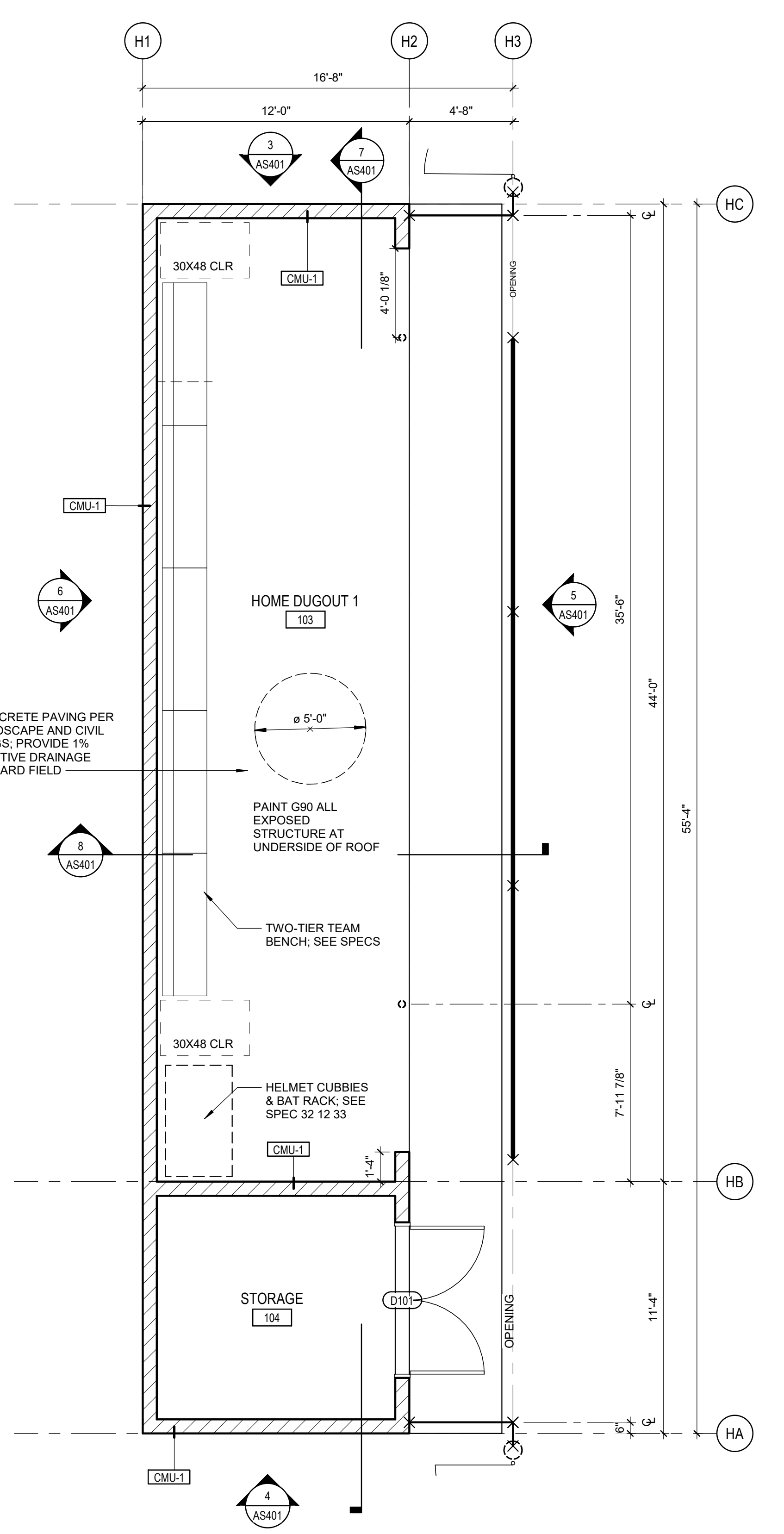
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MANAGEMENT	
LIONAKIS PROJECT NO:	023041
DSA APPLICATION NO:	02-121593
CLIENT PROJECT NO:	
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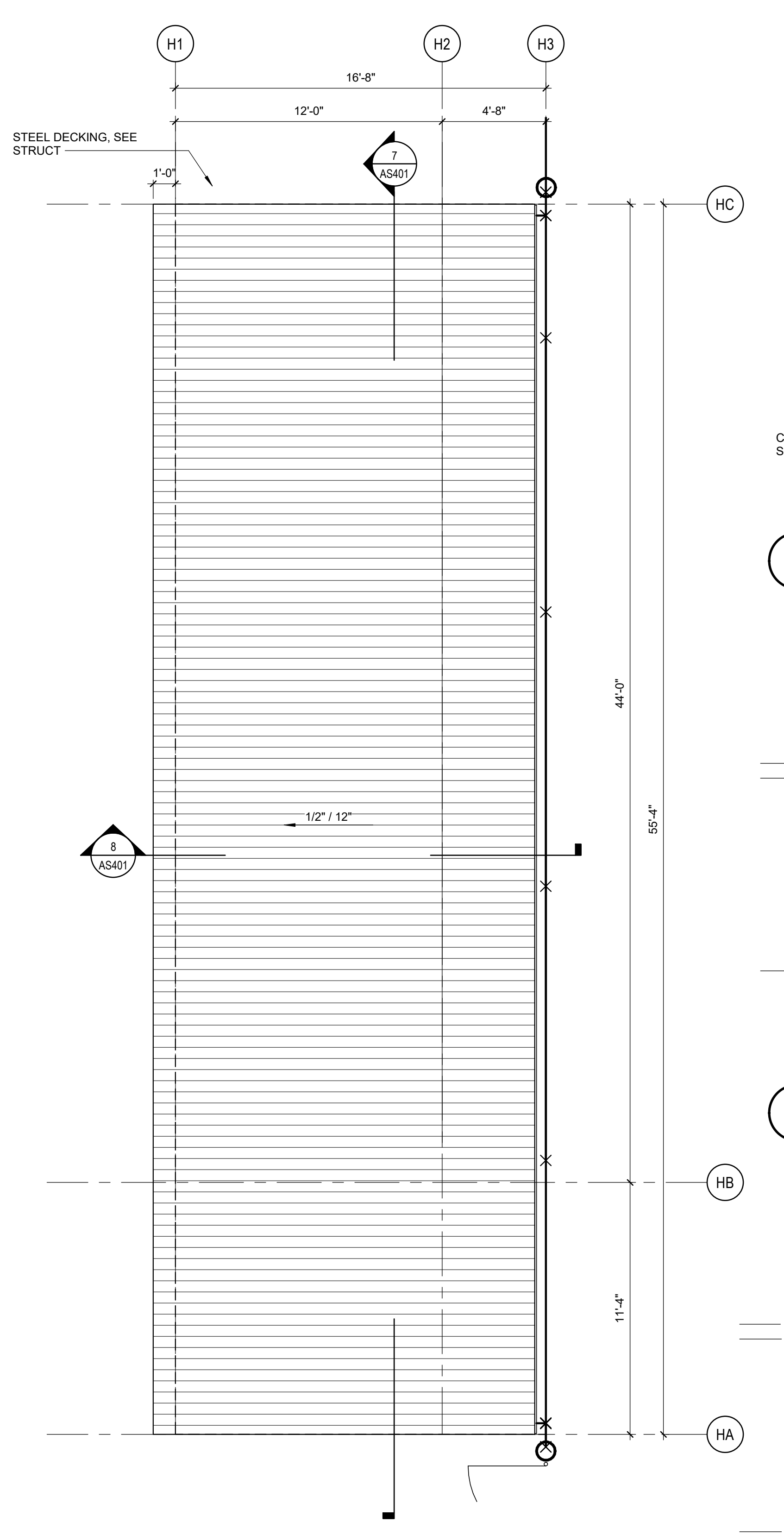
TITLE  
**SITE PLAN - AREA C -  
VARSITY SOFTBALL  
FIELD**

SHEET  
**AS101C**

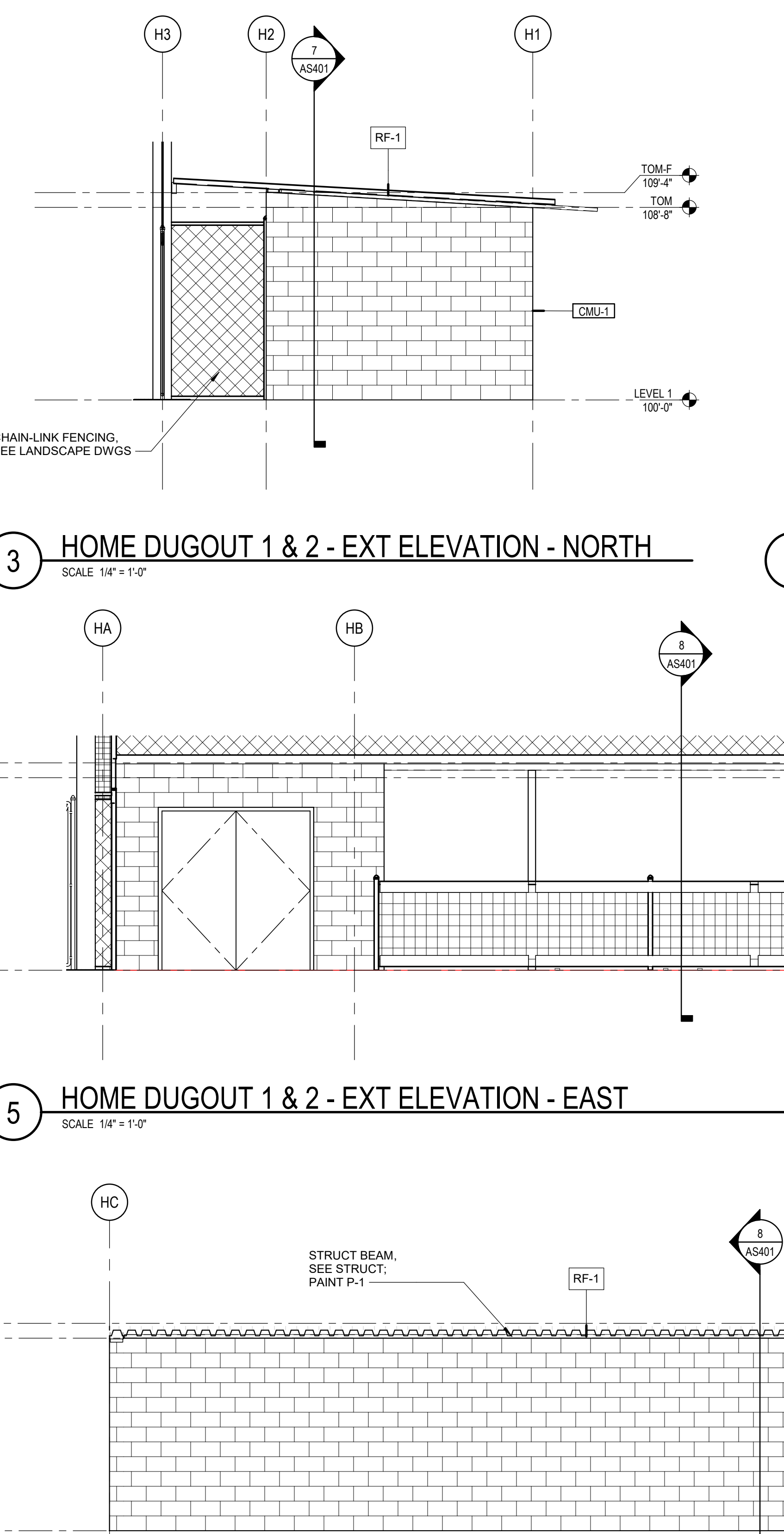
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 0 1/4" = 1'



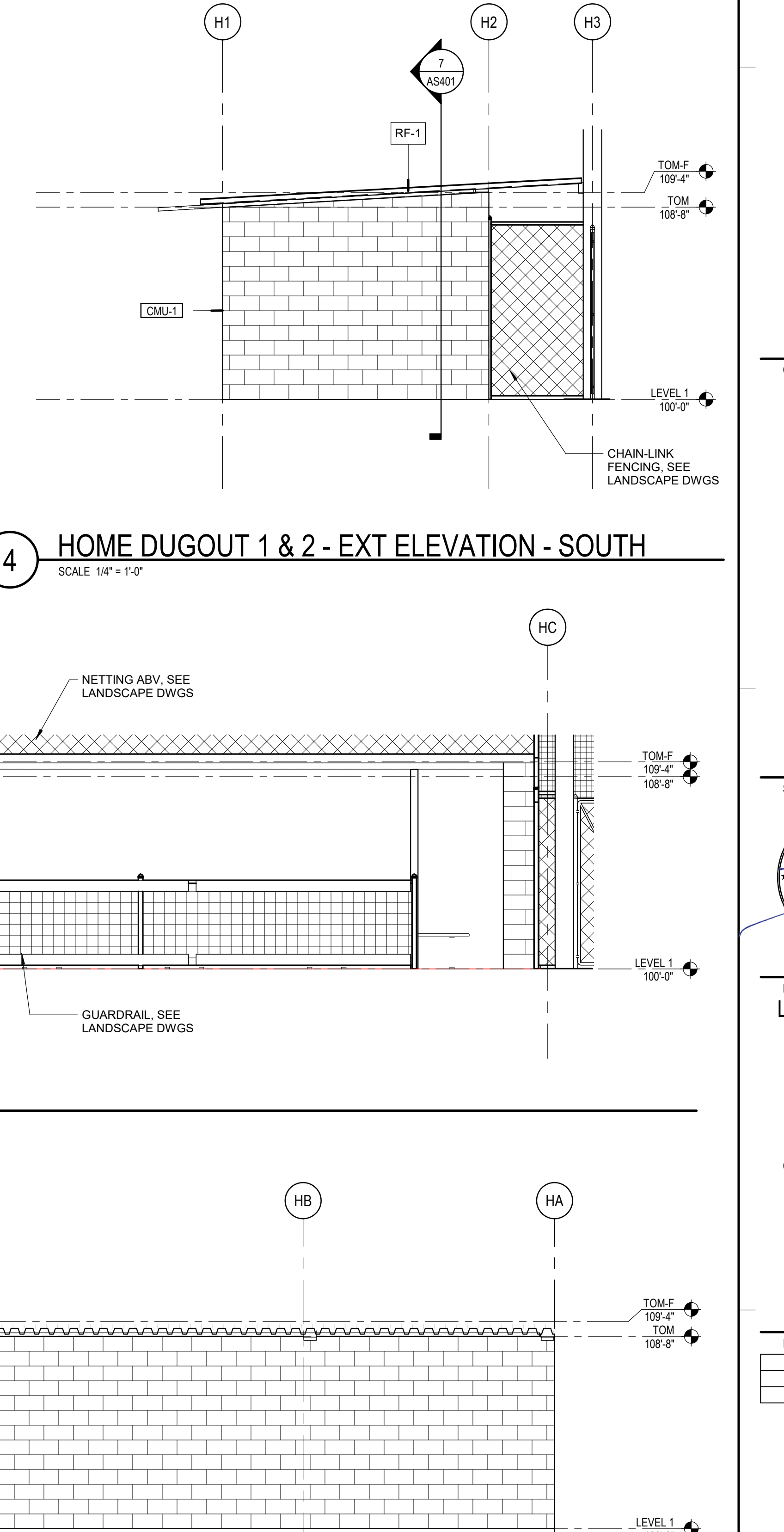
**1 HOME DUGOUT 1 & 2 - FLOOR PLAN**  
SCALE 1/4" = 1'-0"



**2 HOME DUGOUT 1 & 2 - ROOF PLAN**  
SCALE 1/4" = 1'-0"

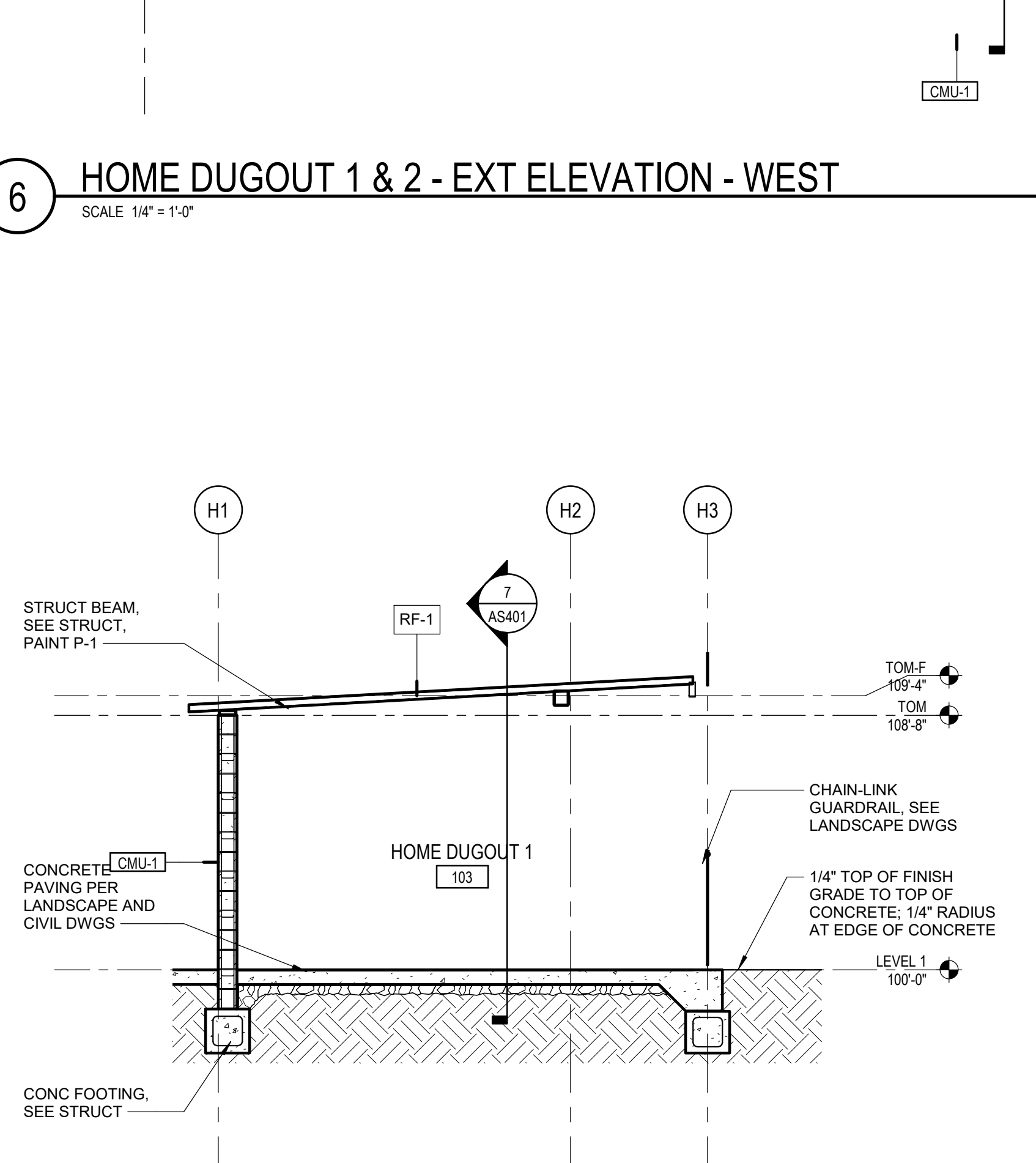


**6 HOME DUGOUT 1 & 2 - EXT ELEVATION - WEST**  
SCALE 1/4" = 1'-0"

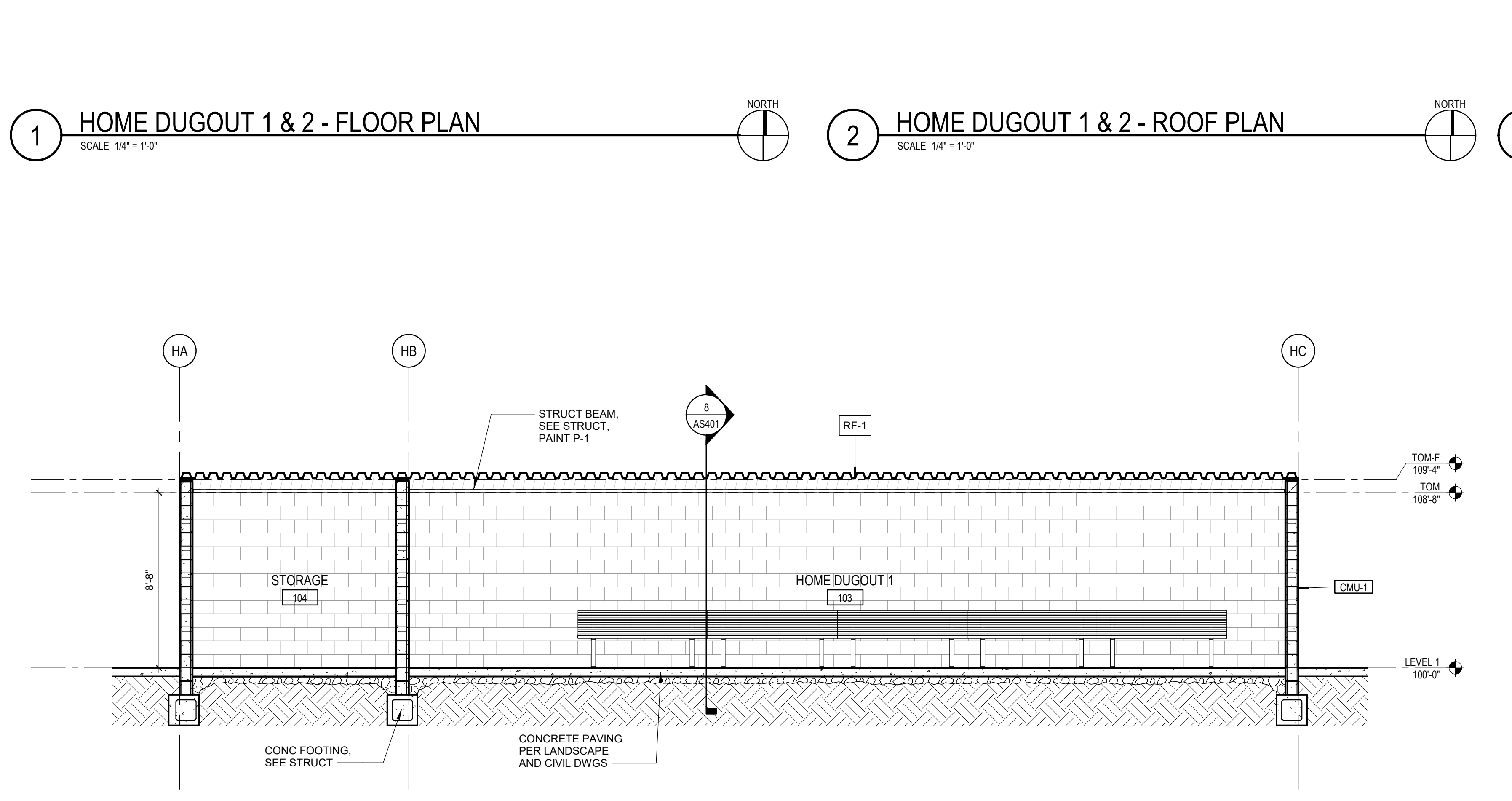


**3 HOME DUGOUT 1 & 2 - EXT ELEVATION - NORTH**  
SCALE 1/4" = 1'-0"

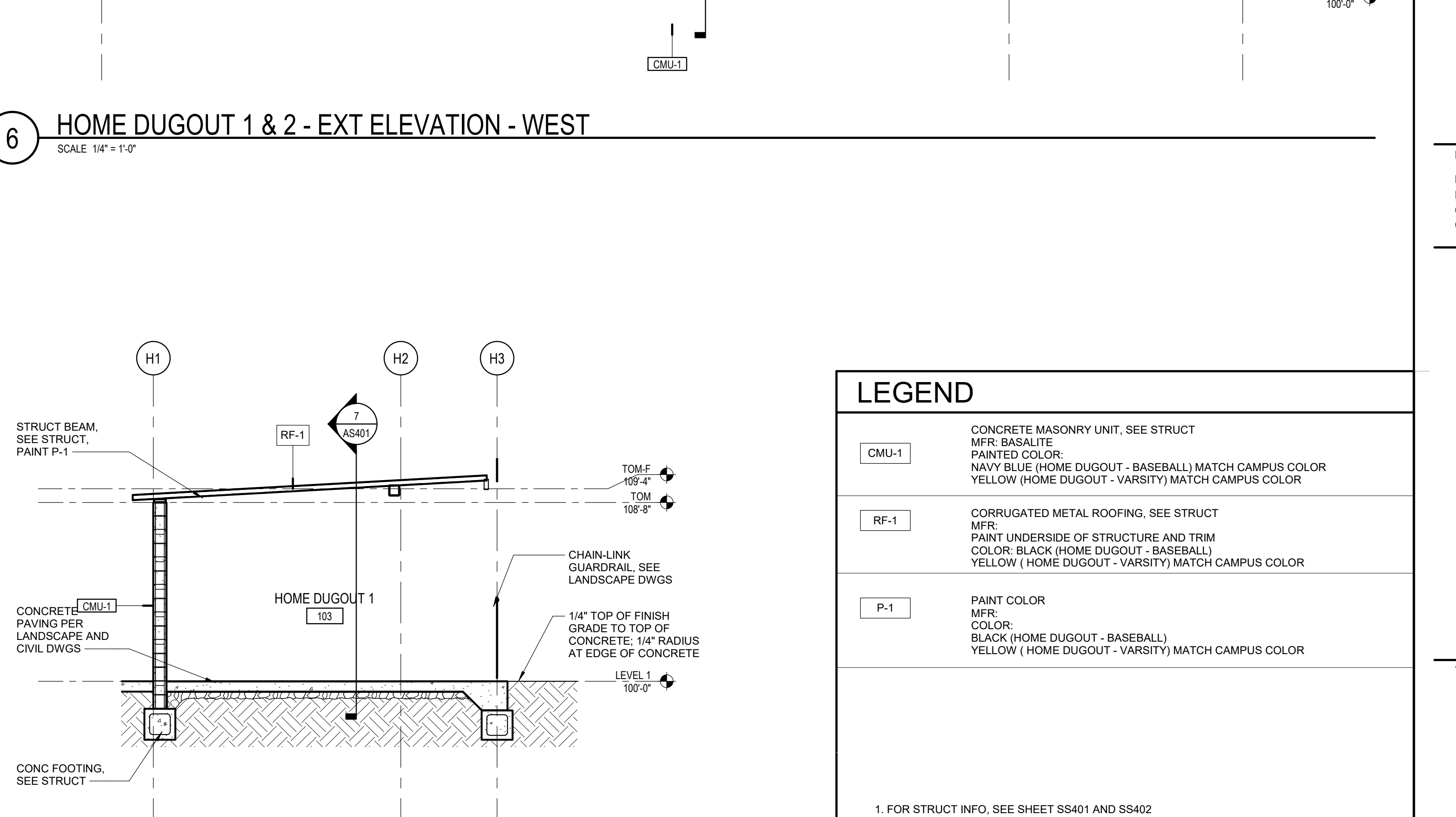
**4 HOME DUGOUT 1 & 2 - EXT ELEVATION - SOUTH**  
SCALE 1/4" = 1'-0"



**5 HOME DUGOUT 1 & 2 - EXT ELEVATION - EAST**  
SCALE 1/4" = 1'-0"



**7 HOME DUGOUT 1 & 2 - SECTION 1**  
SCALE 1/4" = 1'-0"



**8 HOME DUGOUT 1 & 2 - SECTION 2**  
SCALE 1/4" = 1'-0"

LEGEND	
CMU-1	CONCRETE MASONRY UNIT, SEE STRUCT MFR: BASALITE PAINTED COLOR: NAVY BLUE (HOME DUGOUT - BASEBALL) MATCH CAMPUS COLOR YELLOW (HOME DUGOUT - VARSITY) MATCH CAMPUS COLOR
RF-1	CORRUGATED METAL ROOFING, SEE STRUCT MFR: PAINT UNDERSIDE OF STRUCTURE AND TRIM COLOR: BLACK (HOME DUGOUT - BASEBALL) YELLOW (HOME DUGOUT - VARSITY) MATCH CAMPUS COLOR
P-1	PAINT COLOR MFR: COLOR: BLACK (HOME DUGOUT - BASEBALL) YELLOW (HOME DUGOUT - VARSITY) MATCH CAMPUS COLOR

1. FOR STRUCT INFO, SEE SHEET SS401 AND SS402

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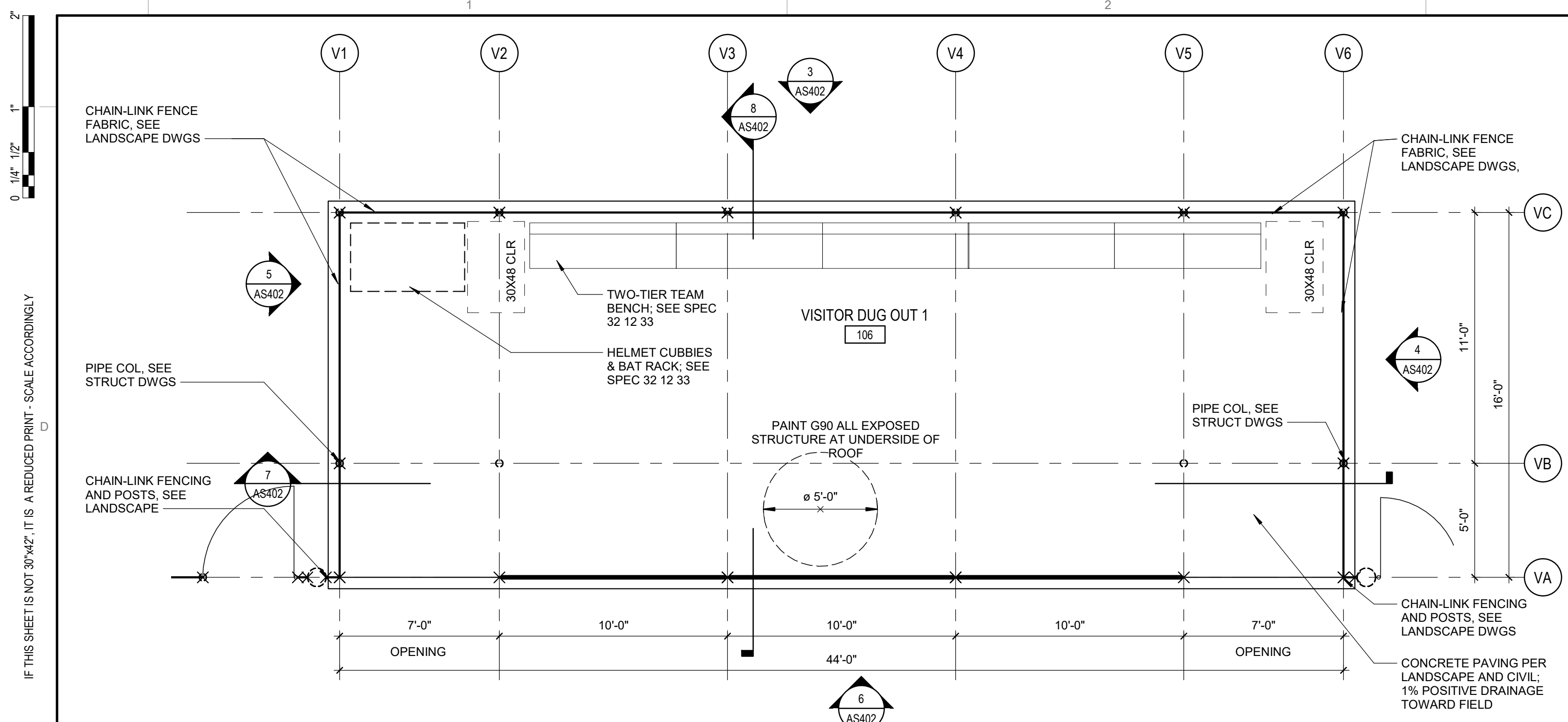
PROJECT  
**LUTHER BURBANK HIGH SCHOOL  
 ATHLETIC FIELDS RENOVATION**  
 3500 FLORIN ROAD  
 SACRAMENTO, CA 95823  
 CLIENT  
 SACRAMENTO CITY UNIFIED SCHOOL DISTRICT  
 5735 47TH AVENUE, SACRAMENTO, CA 95824

ISSUED		
MARK	DATE	DESCRIPTION
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	12/01/2023	BID SET - NOT DSA APPROVED

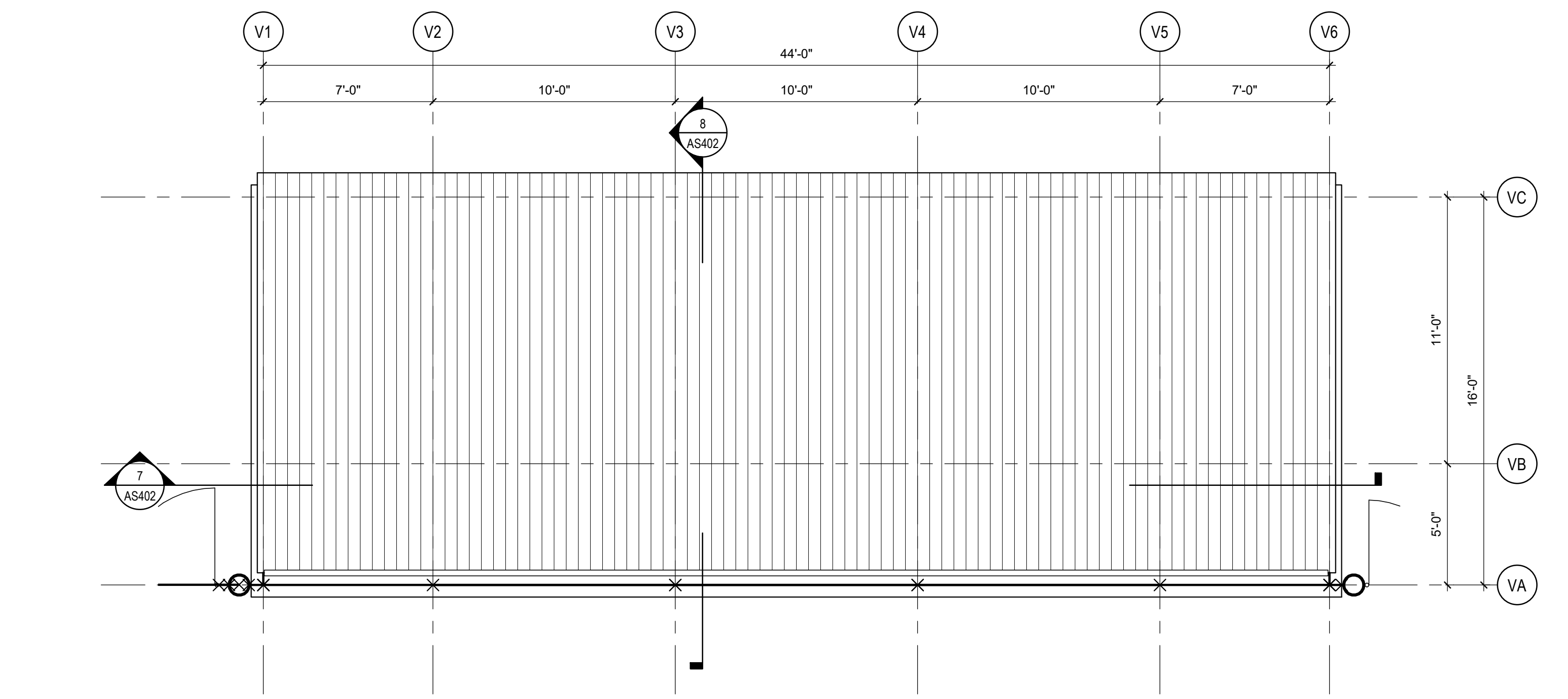
MANAGEMENT	
LIONAKIS PROJECT NO.:	023041
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TITLE  
**ENLARGED PLAN -  
 HOME DUGOUT**

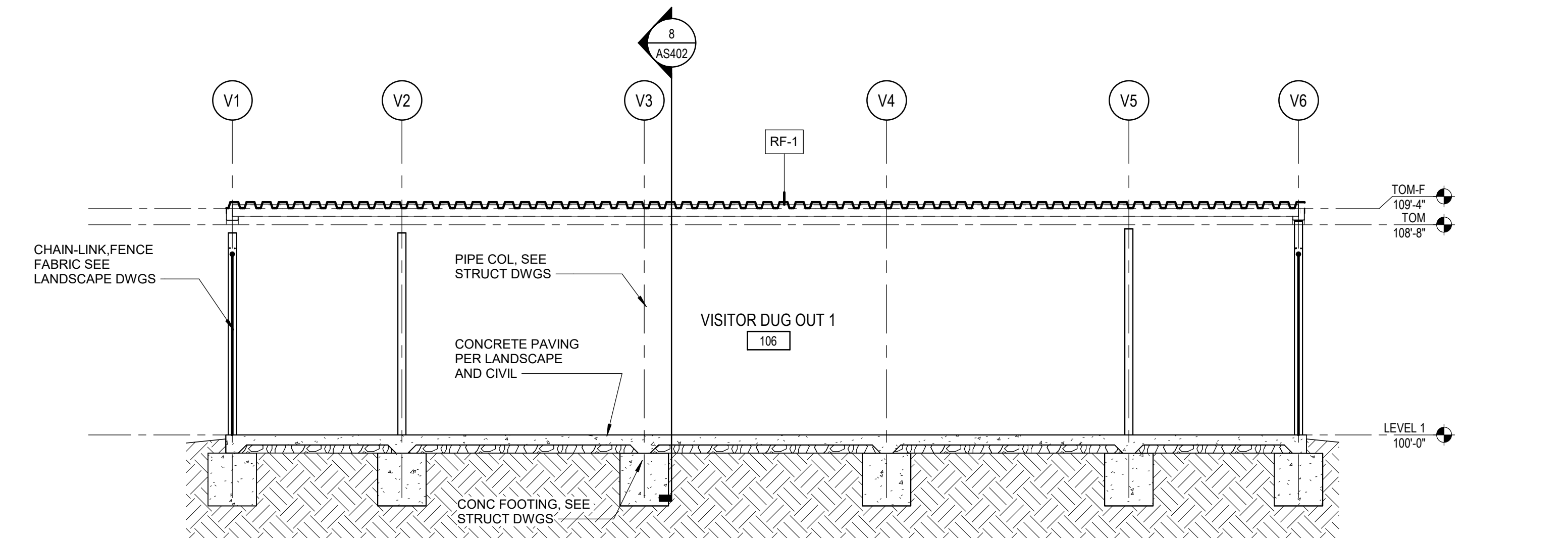
SHEET  
**AS401**



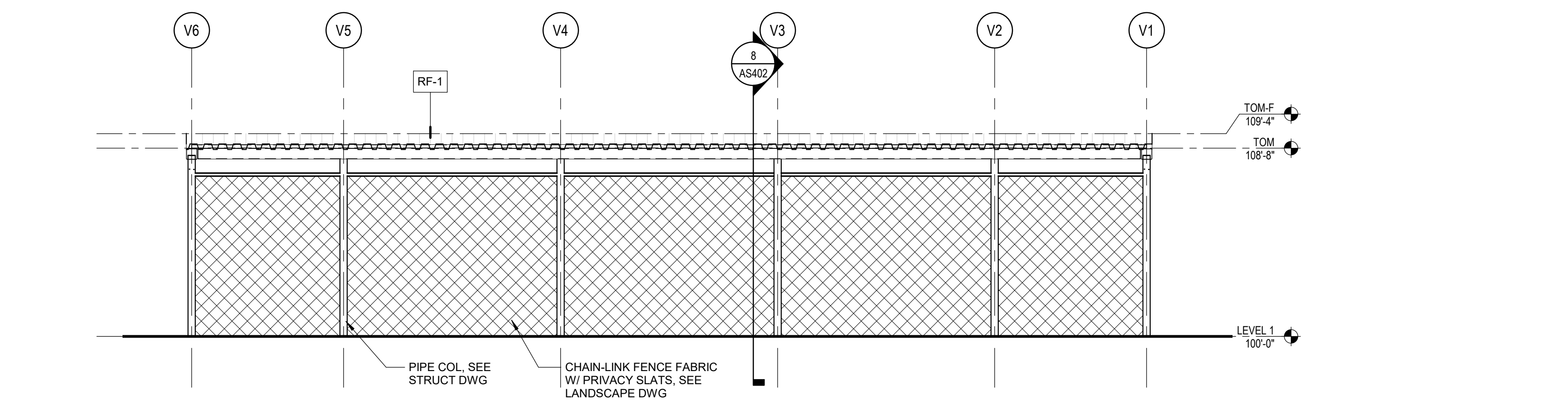
1 VISITOR DUGOUT 1 & 2 - FLOOR PLAN  
SCALE 1/4" = 1'-0"



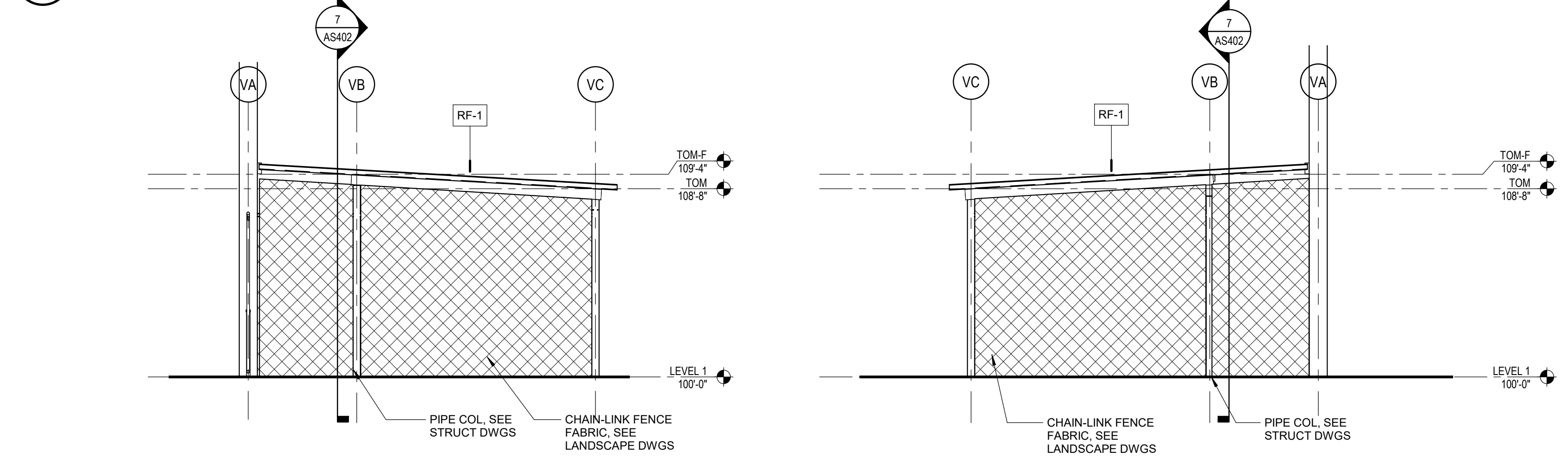
2 VISITOR DUGOUT 1 & 2 - ROOF PLAN  
SCALE 1/4" = 1'-0"



7 VISITOR DUGOUT 1 & 2 - SECTION 1  
SCALE 1/4" = 1'-0"

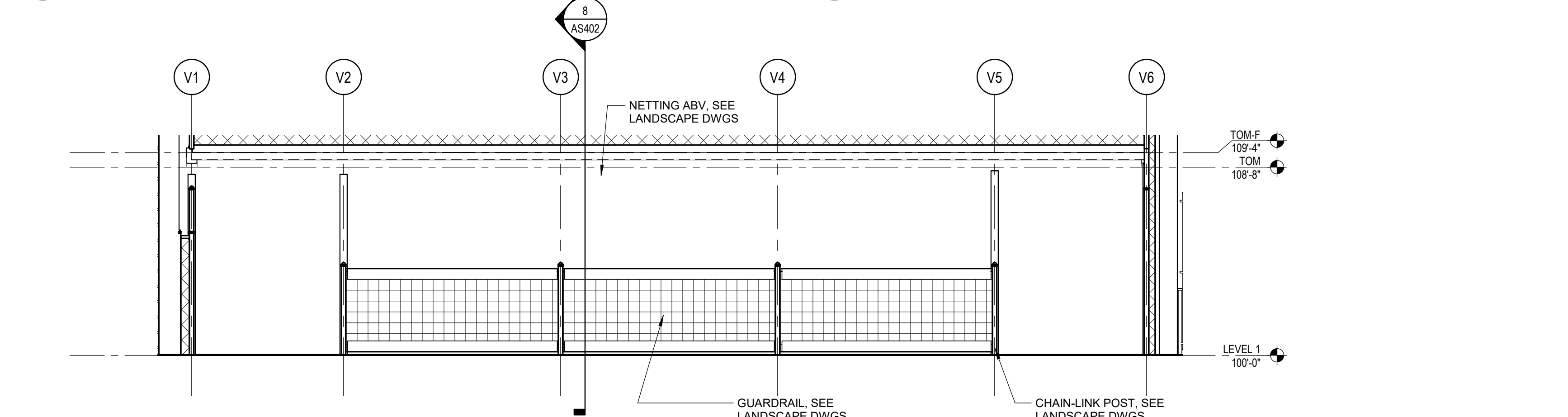


3 VISITOR DUGOUT 1 & 2 - EXT ELEVATION - NORTH  
SCALE 1/4" = 1'-0"

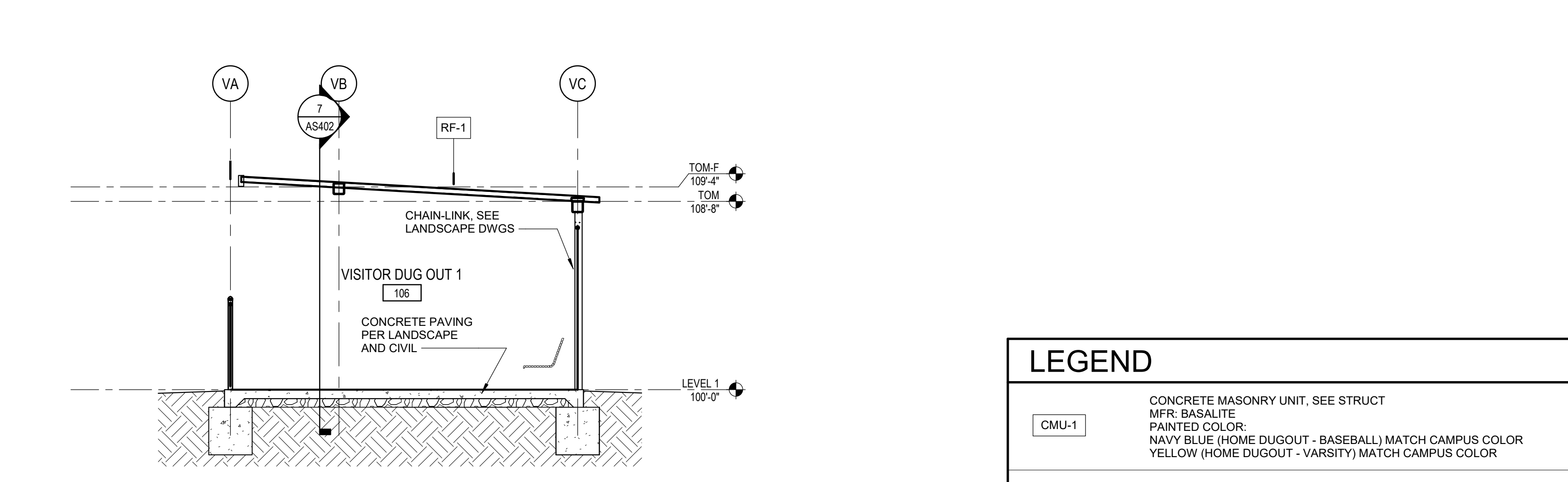


4 VISITOR DUGOUT 1 & 2 - EXT ELEVATION - EAST  
SCALE 1/4" = 1'-0"

5 VISITOR DUGOUT 1 & 2 - EXT ELEVATION - WEST  
SCALE 1/4" = 1'-0"



6 VISITOR DUGOUT 1 & 2 - EXT ELEVATION - SOUTH  
SCALE 1/4" = 1'-0"



8 VISITOR DUGOUT 1 & 2 - SECTION 2  
SCALE 1/4" = 1'-0"

LEGEND	
CMU-1	CONCRETE MASONRY UNIT, SEE STRUCT MFR: BASALITE PAINTED COLOR: NAVY BLUE (HOME DUGOUT - BASEBALL) MATCH CAMPUS COLOR YELLOW (HOME DUGOUT - VARSITY) MATCH CAMPUS COLOR
RF-1	CORRUGATED METAL ROOFING, SEE STRUCT MFR: PAINT UNDERSIDE OF STRUCTURE AND TRIM COLOR: BLACK (HOME DUGOUT - BASEBALL) YELLOW (HOME DUGOUT - VARSITY) MATCH CAMPUS COLOR
P-1	PAINT COLOR MFR: COLOR: BLACK (HOME DUGOUT - BASEBALL) YELLOW (HOME DUGOUT - VARSITY) MATCH CAMPUS COLOR

1. FOR STRUCT INFO, SEE SHEET SS401 AND SS402

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PROJECT  
**LUTHER BURBANK HIGH SCHOOL  
ATHLETIC FIELDS RENOVATION**

3500 FLORIN ROAD  
SACRAMENTO, CA 95823

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

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MARK	DATE	DESCRIPTION
	08/10/2023	DSA SUBMITTAL
	12/01/2023	BID SET - NOT DSA APPROVED

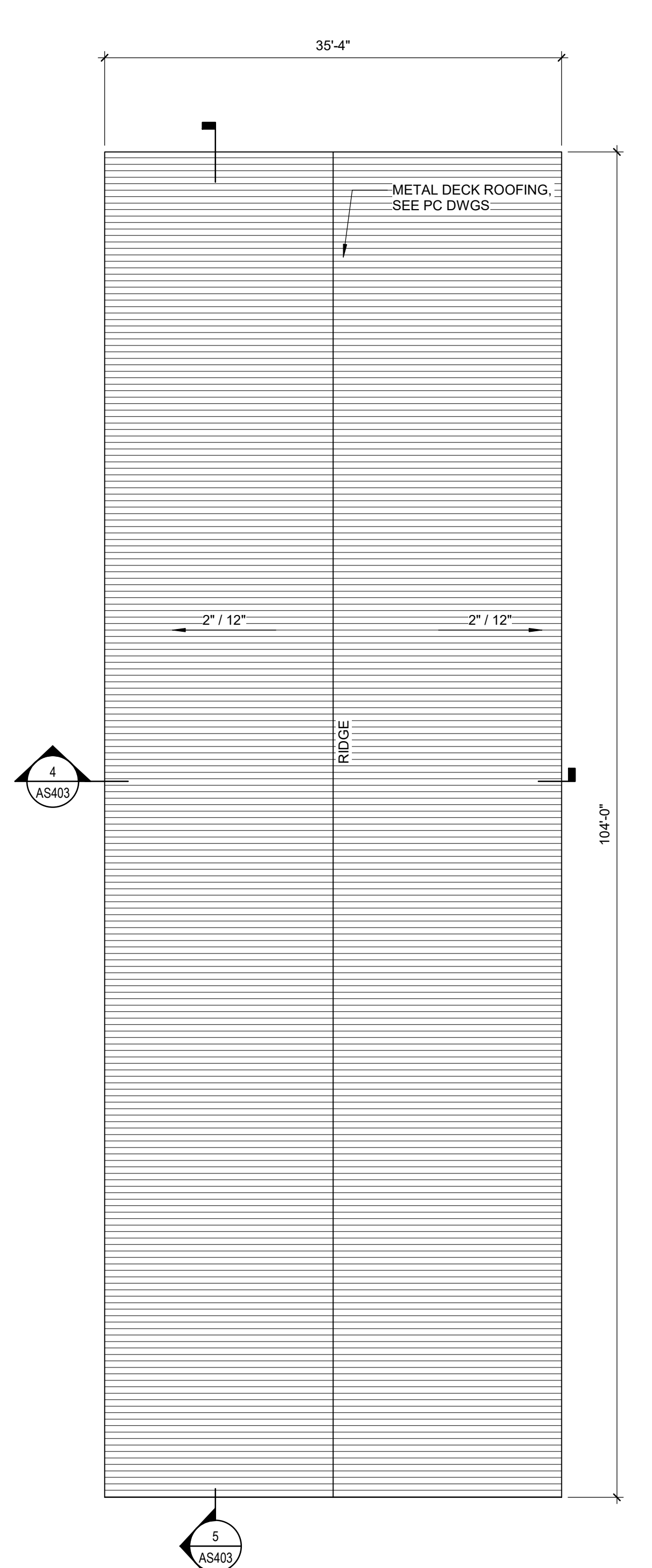
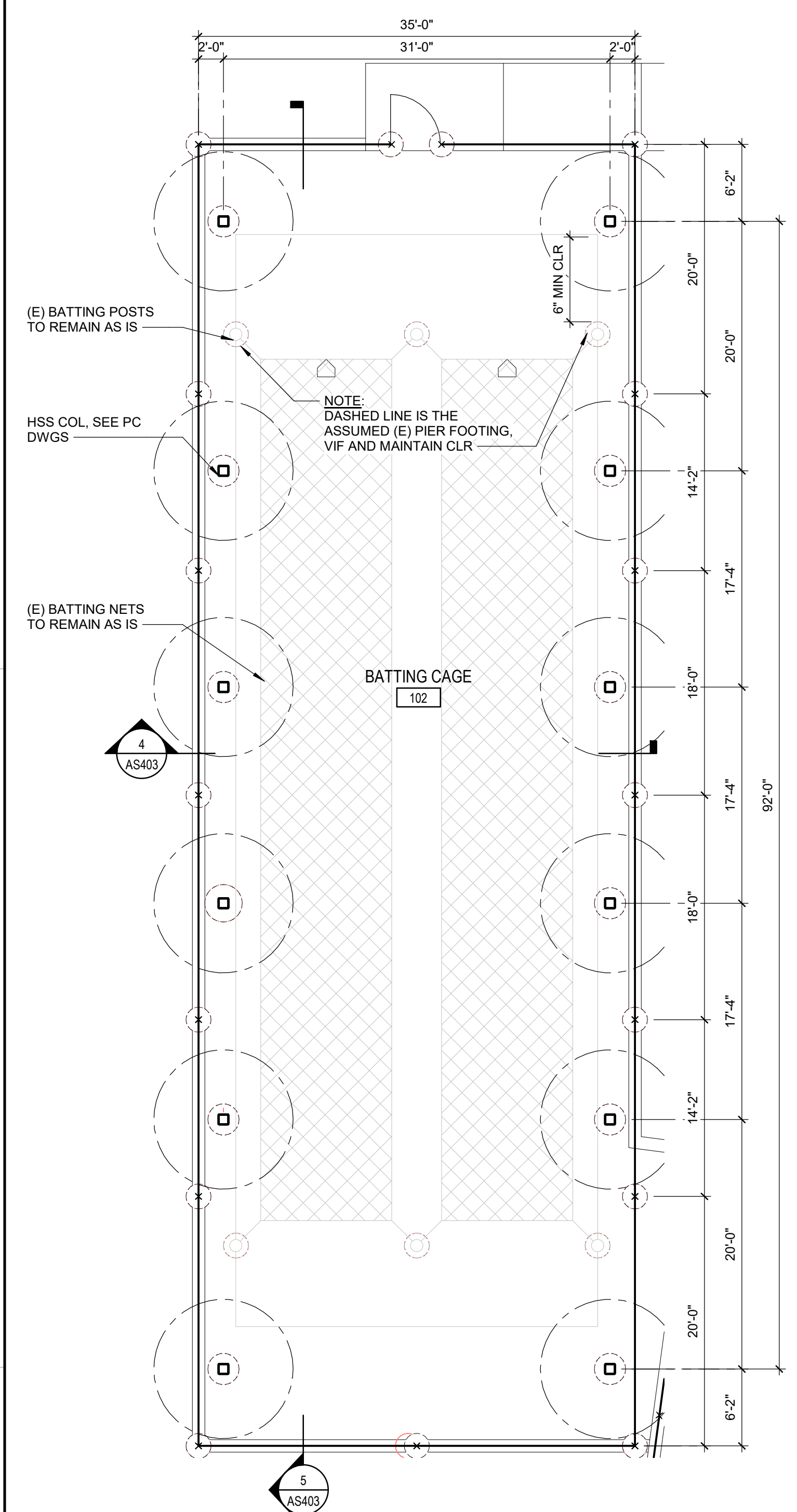
MANAGEMENT	
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CLIENT PROJECT NO.:	
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TITLE  
**ENLARGED PLAN -  
VISITOR DUGOUT**

SHEET  
**AS402**

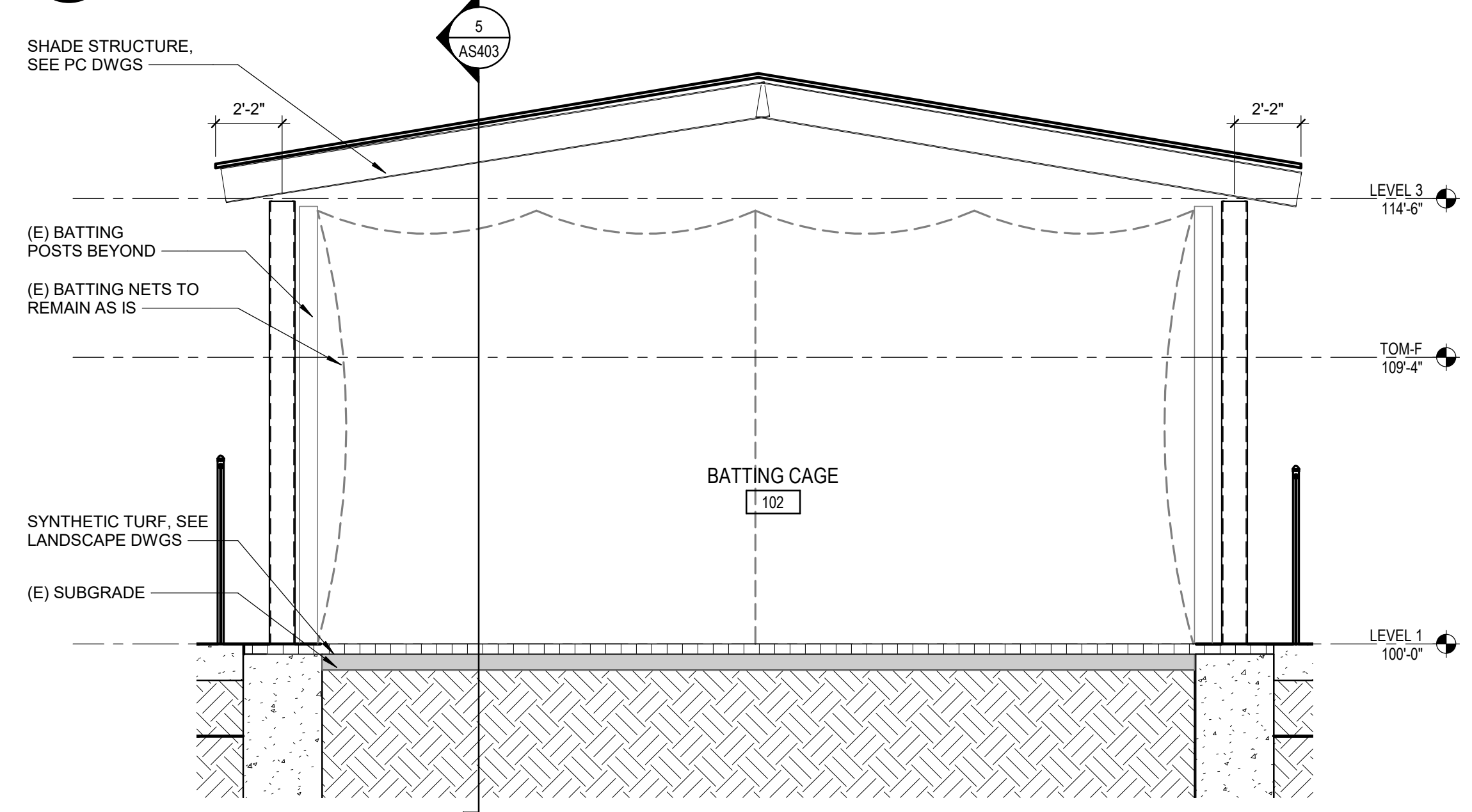
0 1/4" = 1'-0"

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(E) ALUM BATTING CAGE POSTS TO REMAIN AS IS  
(E) BATTING NETS AND ASSEMBLY TO REMAIN AS IS  
(E) SYNTHETIC TURF TO BE REMOVED, SEE LANDSCAPE DWGS

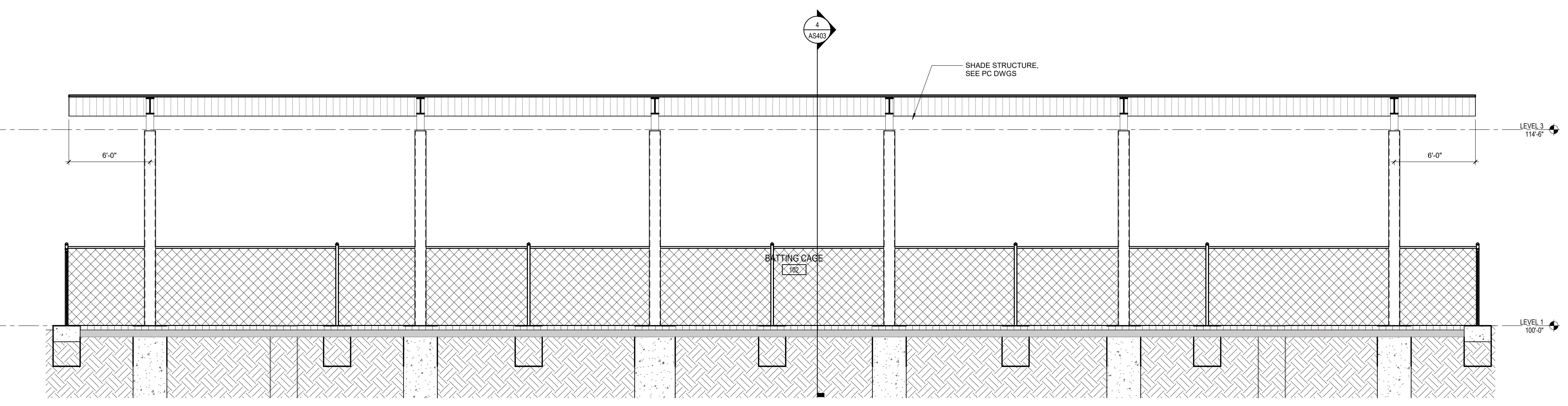
3 (E) BATTING CAGES PHOTO  
SCALE 1 1/2" = 1'-0"



4 BASEBALL BATTING CAGES - HOME - SECTION 2  
SCALE 1/4" = 1'-0"

1 FLOOR PLAN - BASEBALL BATTING CAGES - HOME  
SCALE 1/8" = 1'-0"

2 ROOF PLAN - BASEBALL BATTING CAGES - HOME  
SCALE 1/8" = 1'-0"



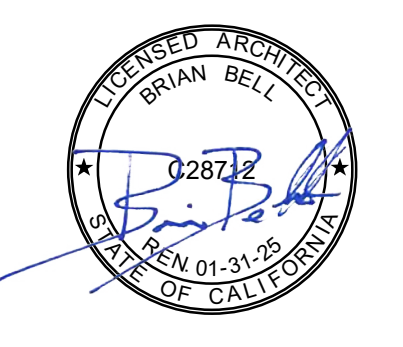
5 BASEBALL BATTING CAGES - HOME - SECTION 1  
SCALE 1/4" = 1'-0"

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ATHLETIC FIELDS RENOVATION

3500 FLORIN ROAD  
SACRAMENTO, CA 95823

CLIENT  
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT  
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TITLE  
ENLARGED PLAN -  
BATTING CAGE -  
BASEBALL

SHEET  
AS403

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BM1901023041\_SOLID\_Burbank\_HS\_Fields0204\_ARCHITECT\_EOL\_CENTRAL.rvt



0 1/4" = 1'

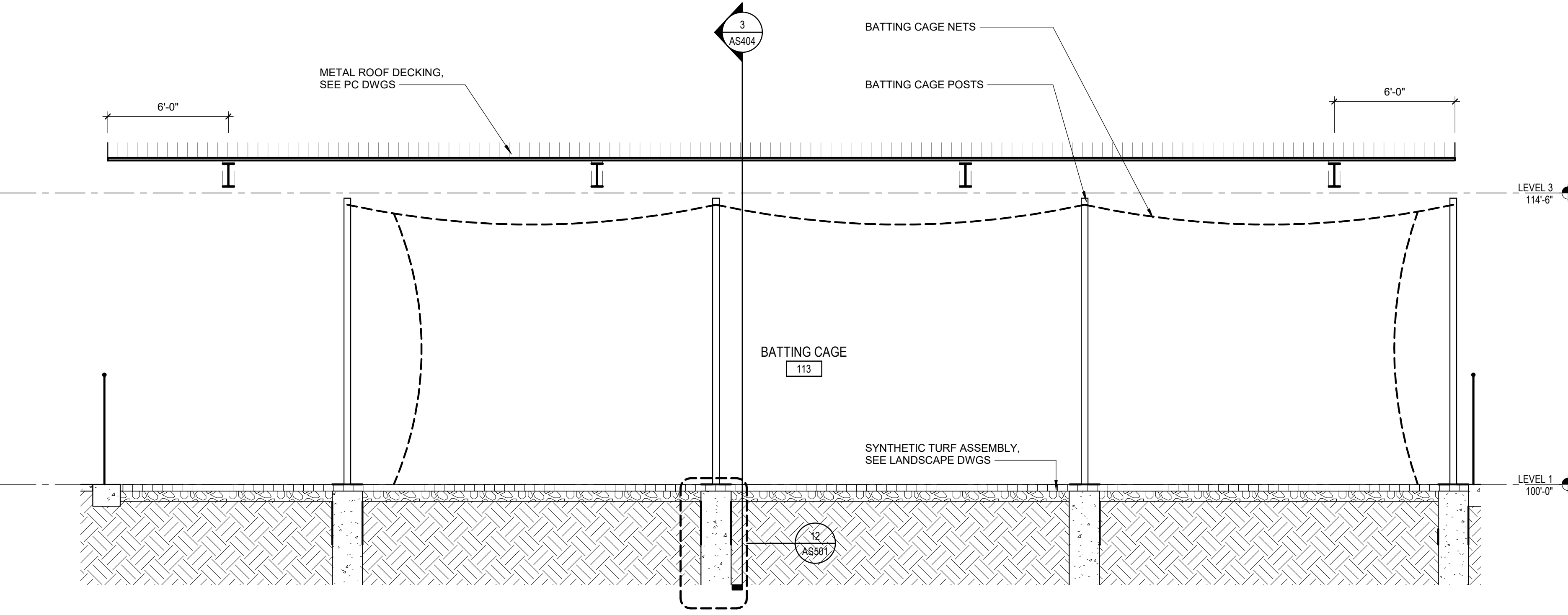
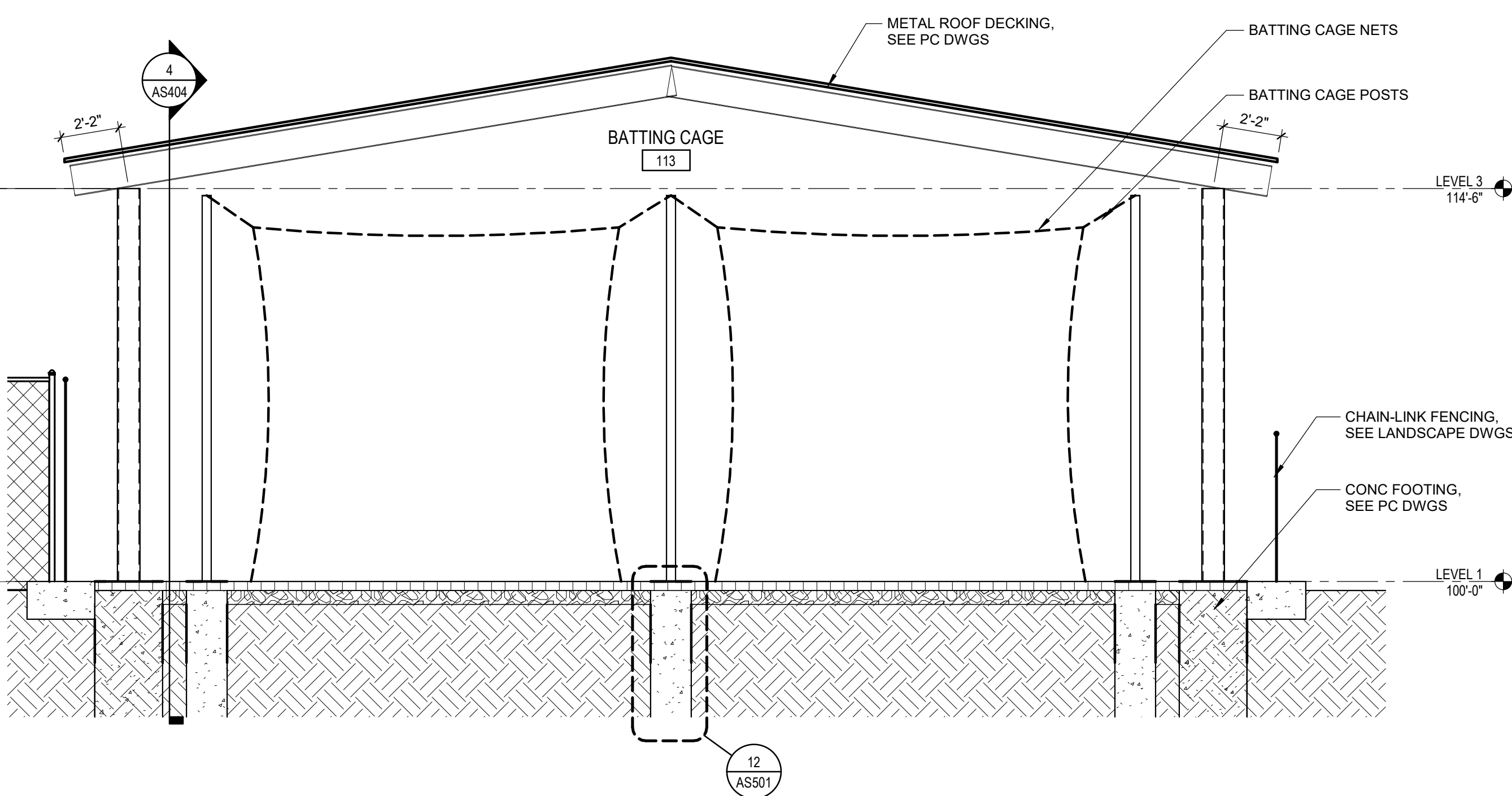
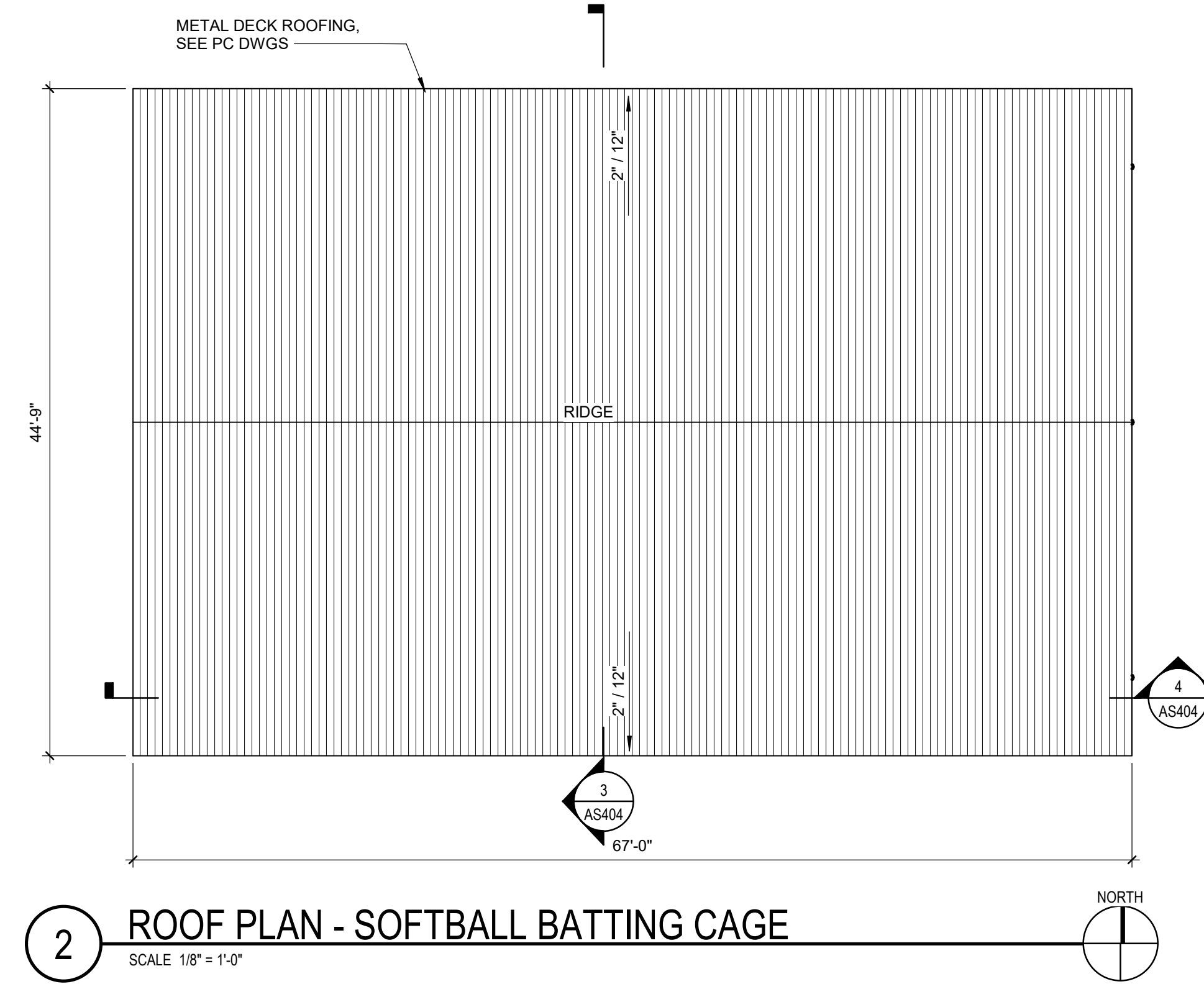
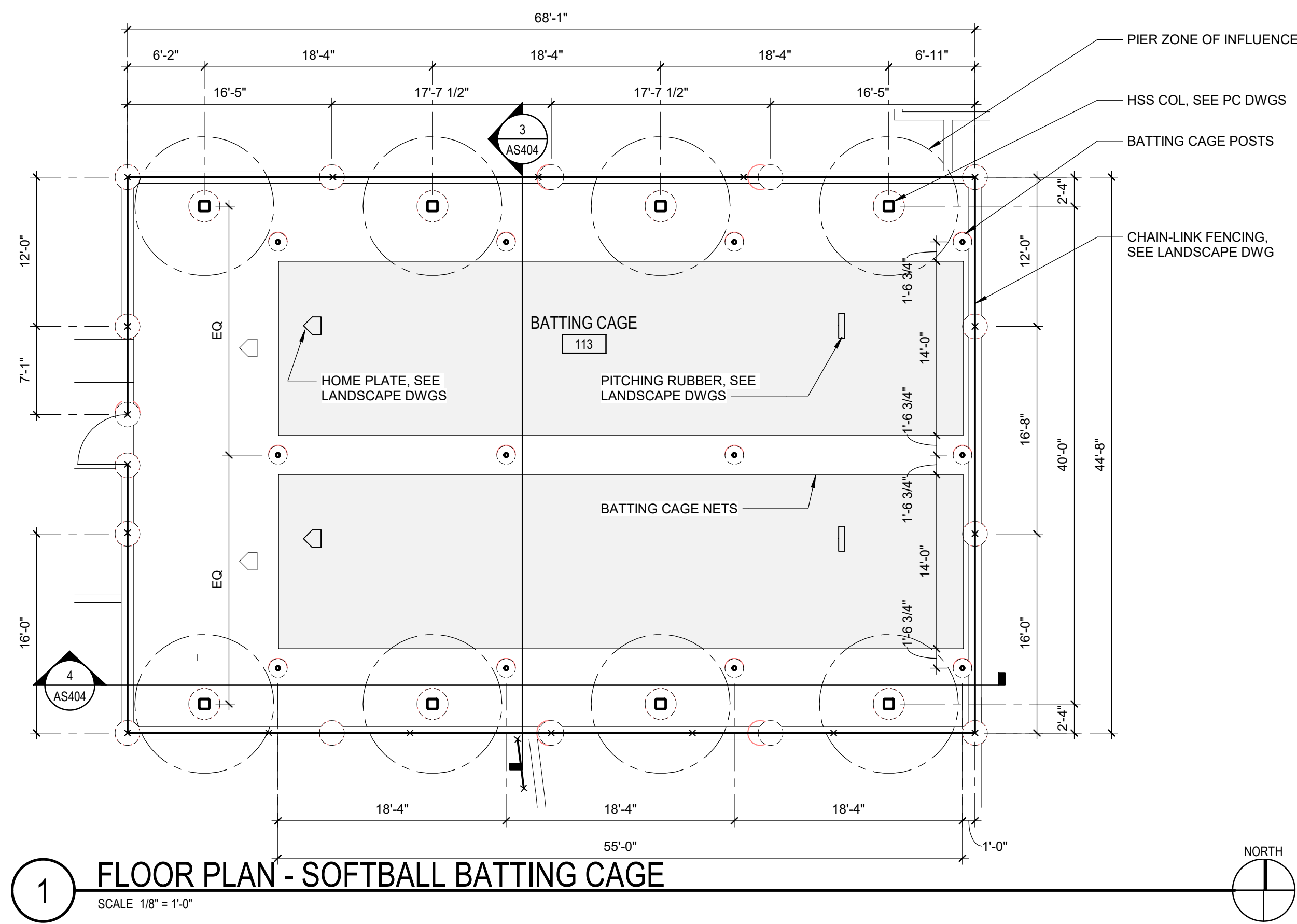
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BM 030 / 02341 - SQUAD Burbank HS Plans 02/04/ ARCHISTE EOL CENTRAL.V1

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PROJECT  
**LUTHER BURBANK HIGH SCHOOL  
ATHLETIC FIELDS RENOVATION**

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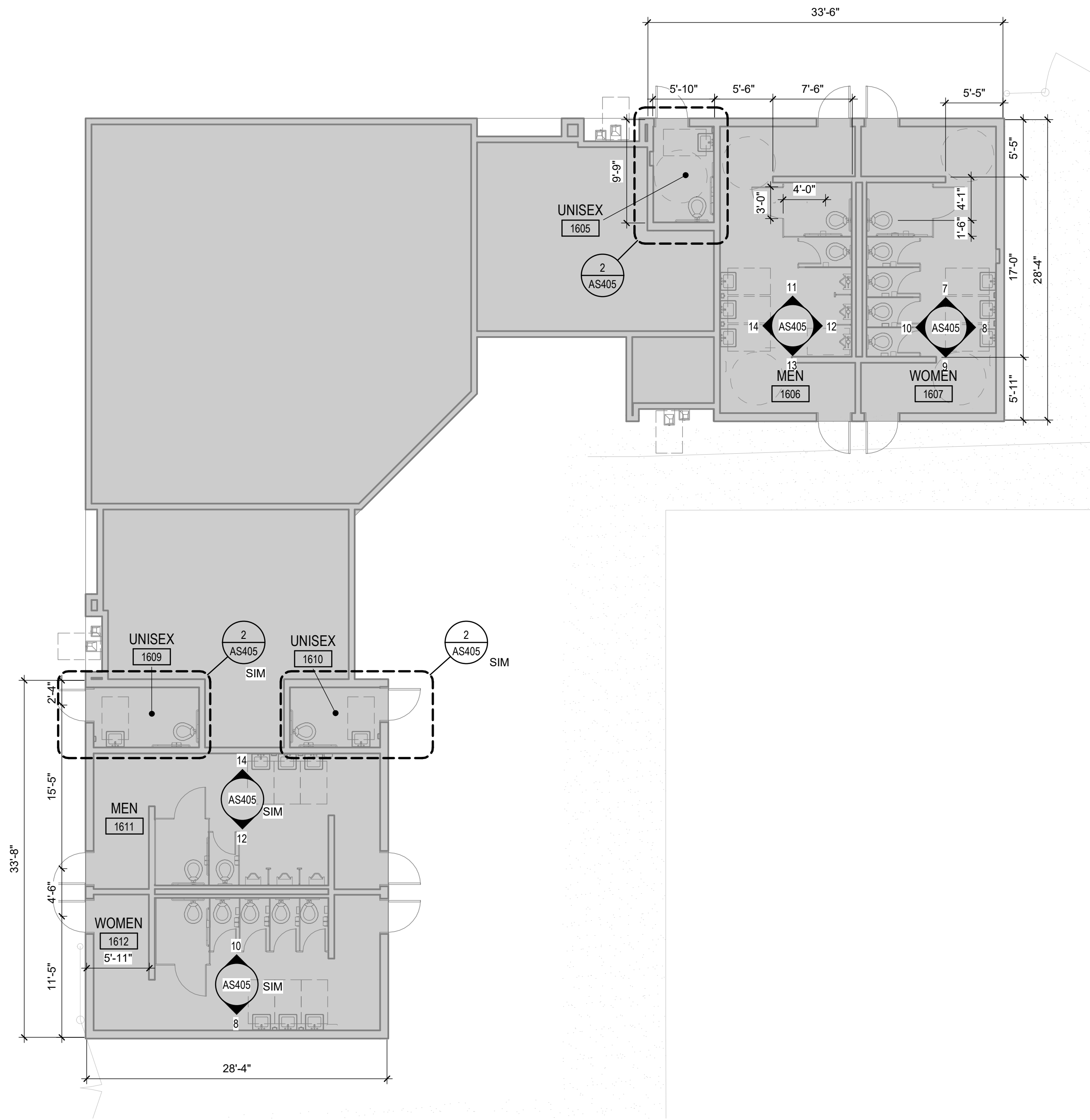
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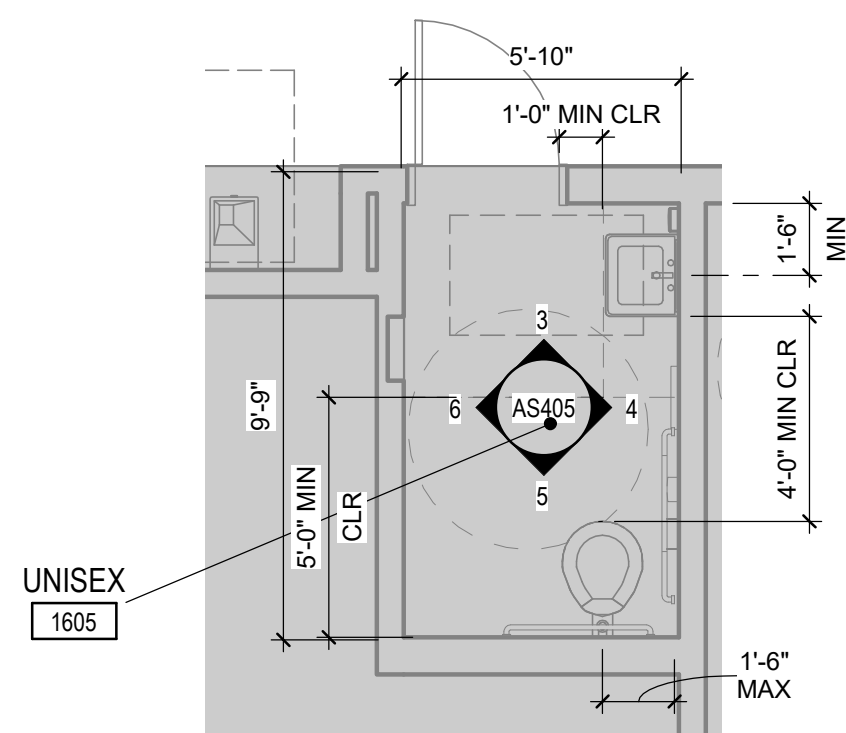
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DSA APPLICATION NO.:	02-121593
CLIENT PROJECT NO.:	
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TITLE  
**ENLARGED PLAN -  
BATTING CAGE -  
SOFTBALL**

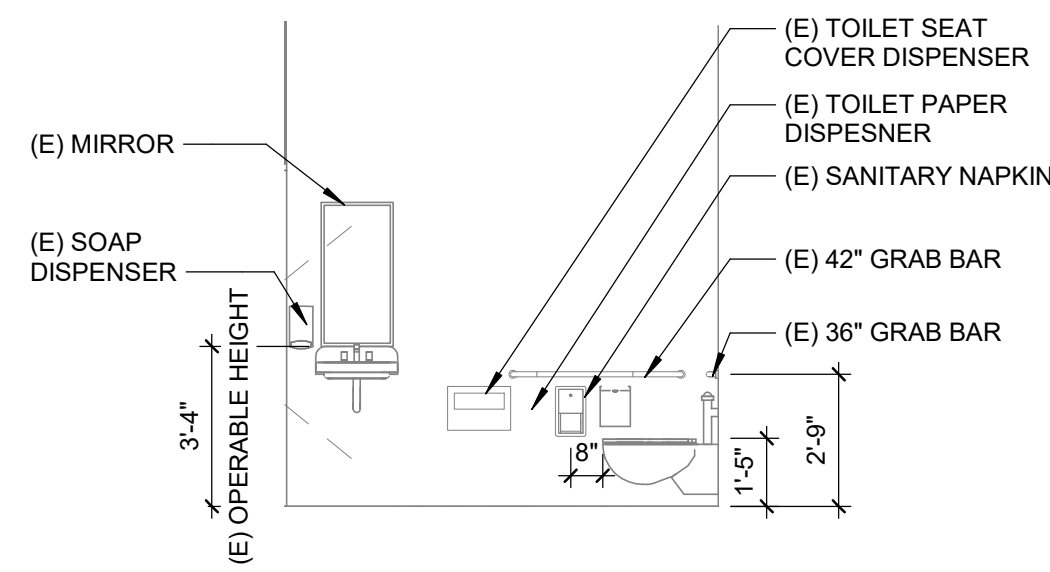
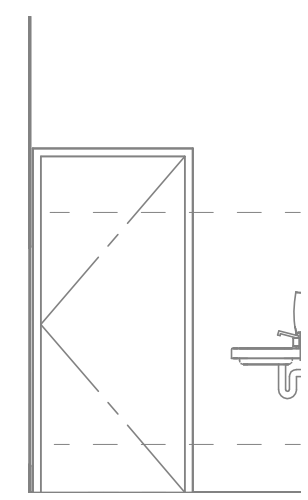
SHEET  
**AS404**



**1** EXISTING RESTROOMS @ CONCESSION BLDG - LEVEL 1  
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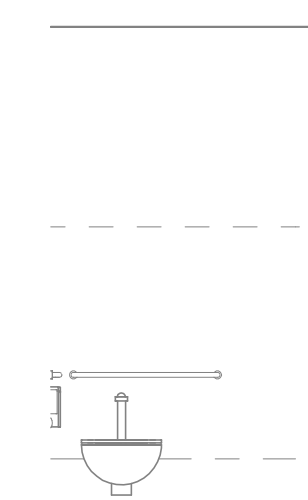


**3** UNISEX - RR - NORTH  
SCALE 1/4" = 1'-0"

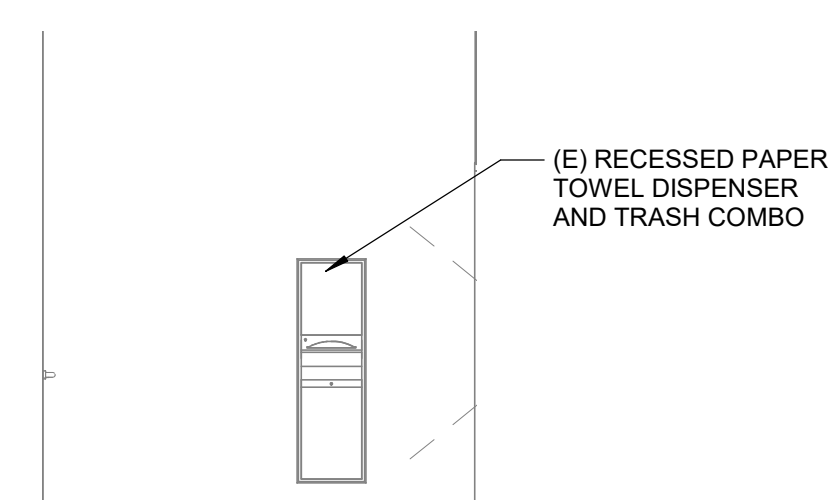


**4** UNISEX - RR - EAST  
SCALE 1/4" = 1'-0"

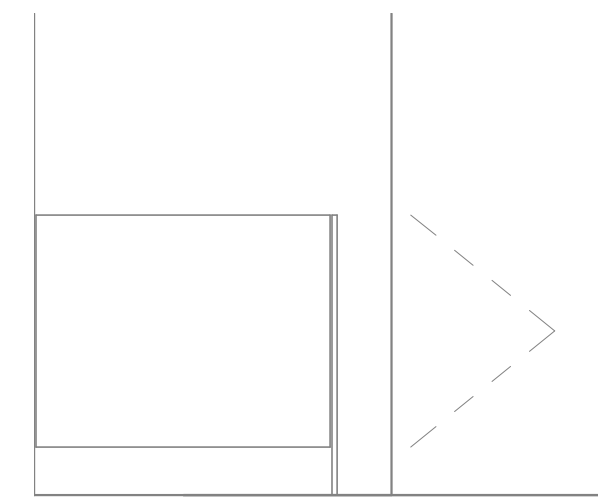
**2** EXISTING UNISEX  
SCALE 1/4" = 1'-0"



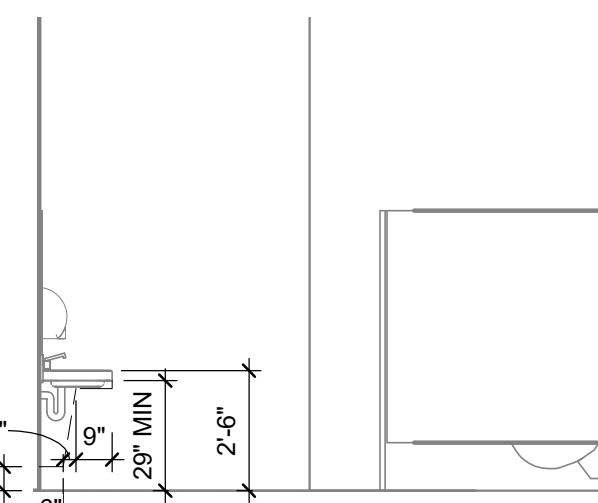
**5** UNISEX - RR - SOUTH  
SCALE 1/4" = 1'-0"



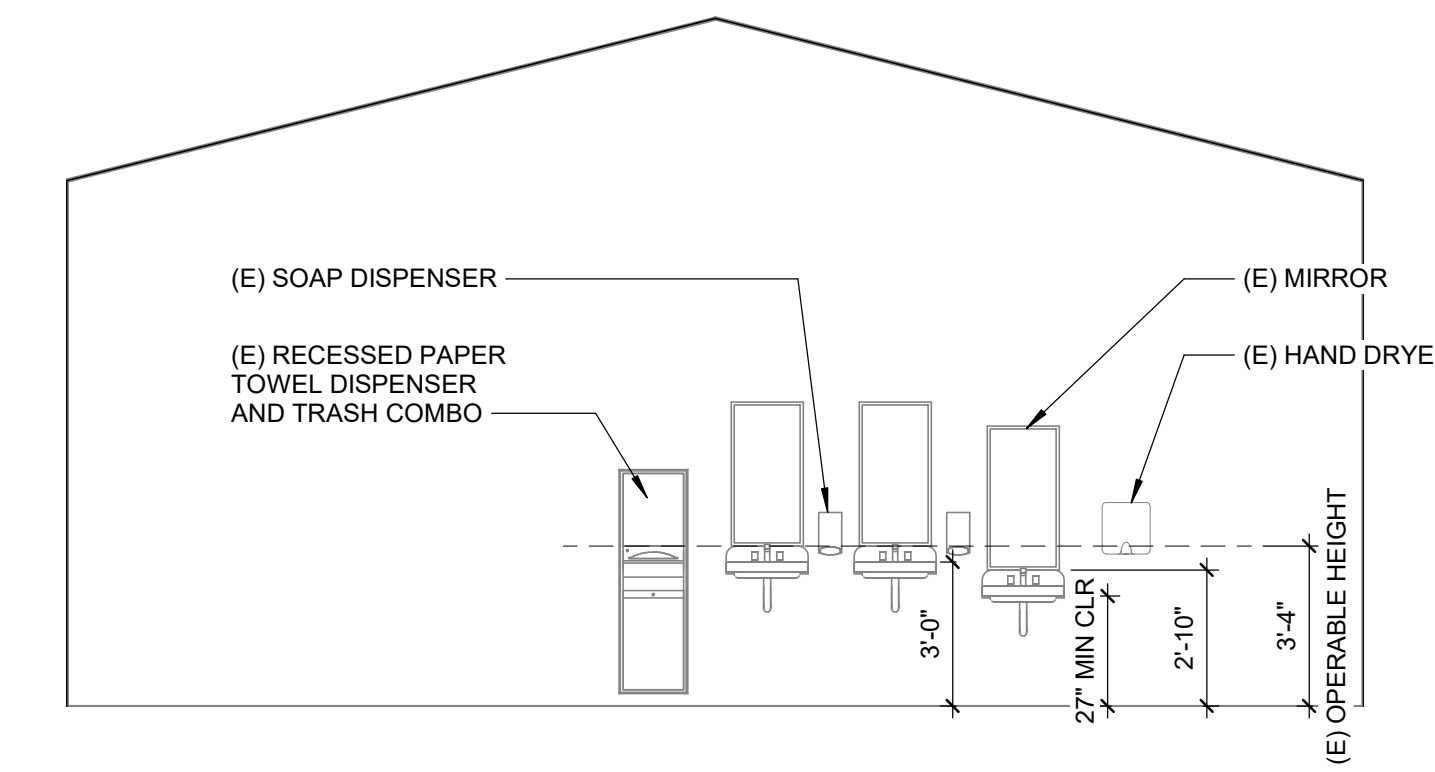
**6** UNISEX - RR - WEST  
SCALE 1/4" = 1'-0"



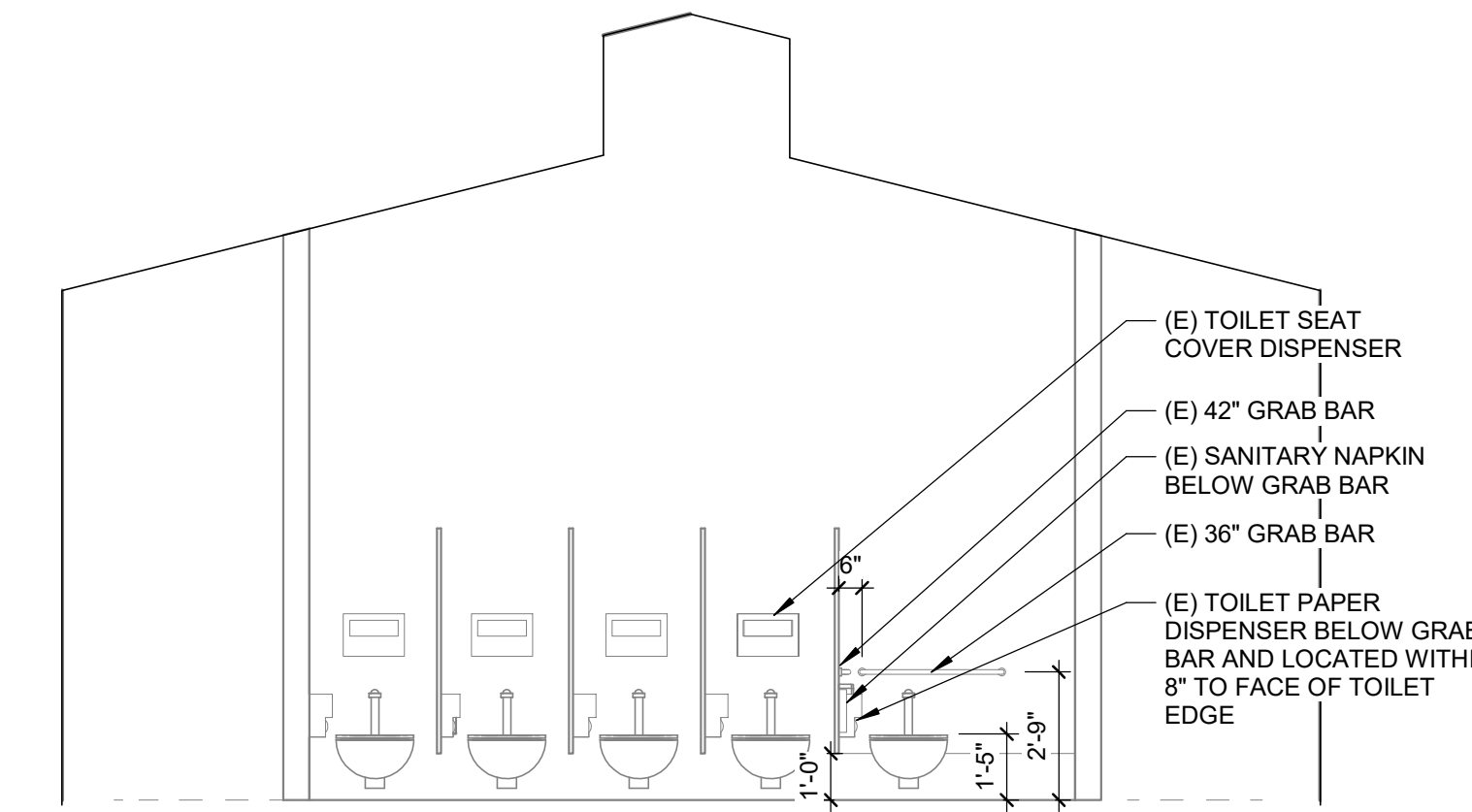
**7** WOMEN - RR - NORTH  
SCALE 1/4" = 1'-0"



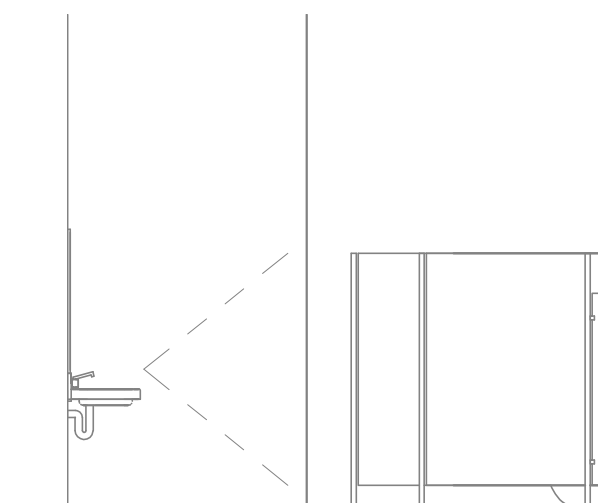
**9** WOMEN - RR - SOUTH  
SCALE 1/4" = 1'-0"



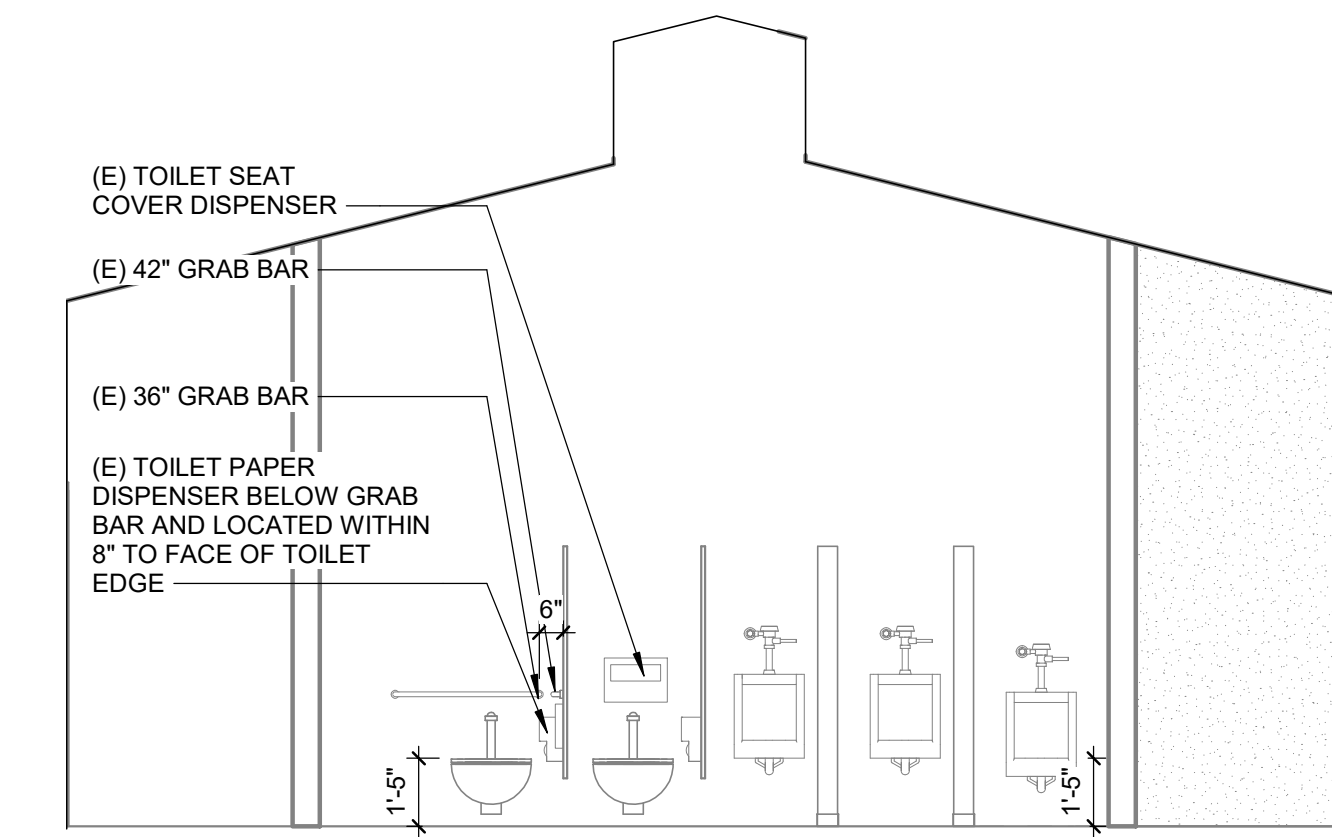
**8** WOMEN - RR - EAST  
SCALE 1/4" = 1'-0"



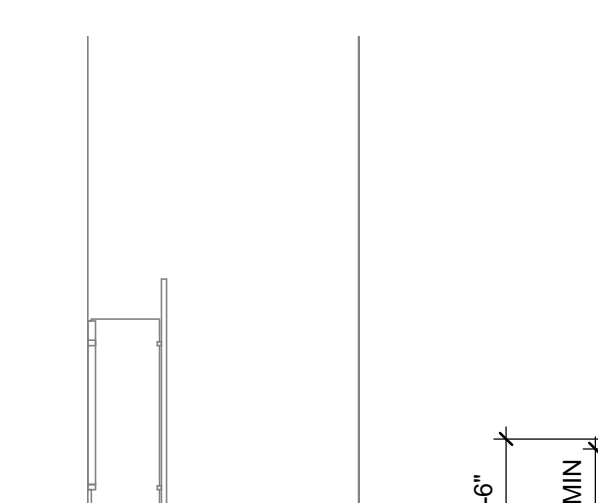
**10** WOMEN - RR - WEST  
SCALE 1/4" = 1'-0"



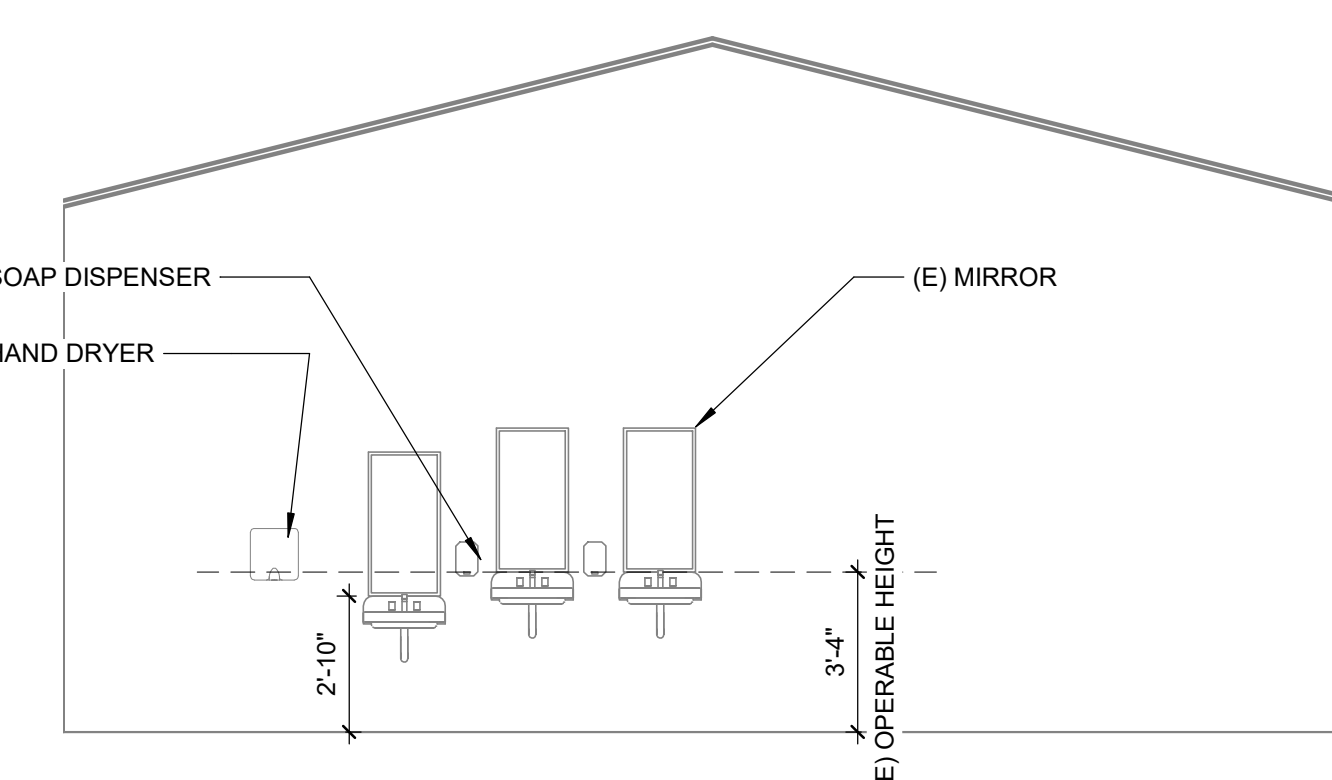
**11** MEN - RR - NORTH  
SCALE 1/4" = 1'-0"



**12** MEN - RR - EAST  
SCALE 1/4" = 1'-0"



**13** MEN - RR - SOUTH  
SCALE 1/4" = 1'-0"



**14** MEN - RR - WEST  
SCALE 1/4" = 1'-0"



PROJECT  
**LUTHER BURBANK HIGH SCHOOL  
ATHLETIC FIELDS RENOVATION**

3500 FLORIN ROAD  
SACRAMENTO, CA 95823

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

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TITLE  
**ENLARGED PLAN -  
EXISTING RESTROOMS**

SHEET  
**AS405**

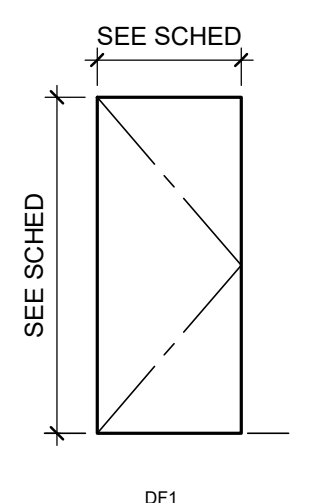
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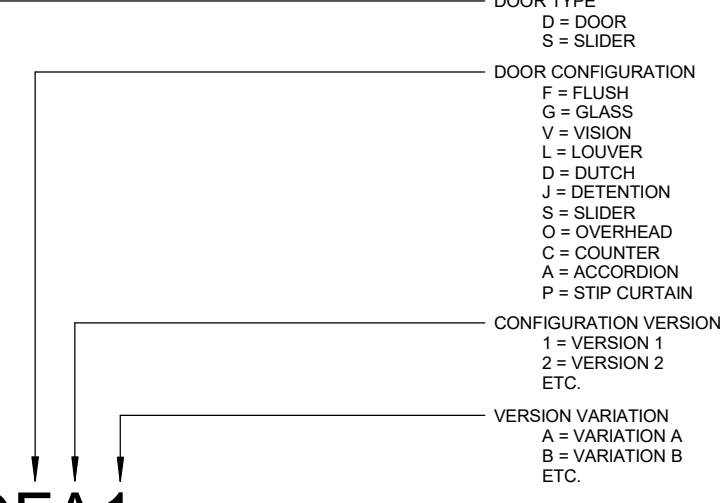
DOOR SCHEDULE														
DOOR NO	LOCATION	HDW GP	DOORS				FRAMES			DETAIL NO.	COMMENTS			
			TYPE	WIDTH	LEAF 2 TYPE	LEAF 2 WIDTH	MATL	HEIGHT	FINISH			TYPE	MATL	FINISH
D101	STORAGE	SEE BELOW	DF1	3'-4"	DF1	3'-4"	HM	7'-2"	PT-2	FB1	HM	PT-2	2/ASS01	STORAGE

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

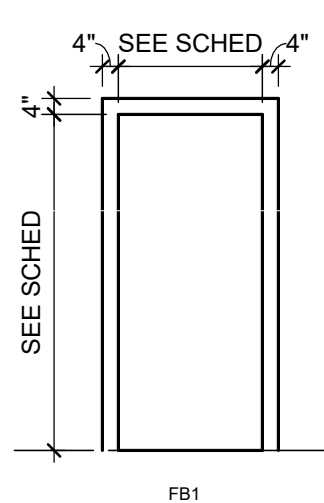
DOOR TYPES



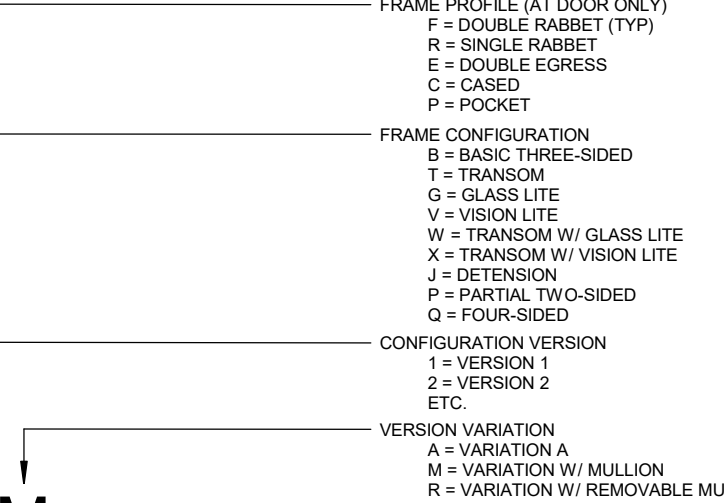
DOOR TYPE SYMBOL KEY



FRAME TYPES



FRAME TYPE SYMBOL KEY



LEGEND

(E) = EXISTING  
 HW GP = HARDWARE GROUP  
 V = VINYL STRIPS

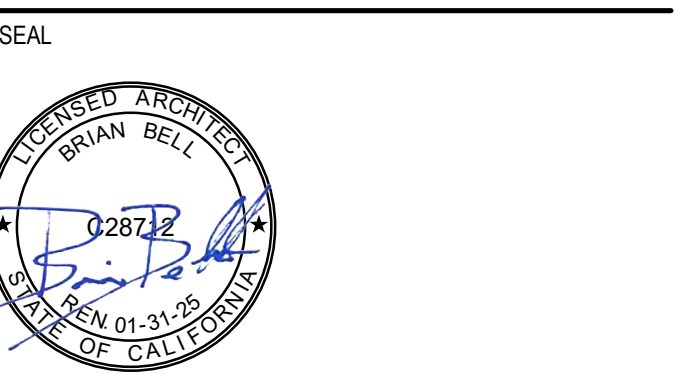
MATERIAL  
 AL = ALUMINUM  
 HM = HOLLOW METAL

FINISH  
 AN = ANODIZED  
 PT = PAINT

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PROJECT LUTHER BURBANK HIGH SCHOOL ATHLETIC FIELDS RENOVATION

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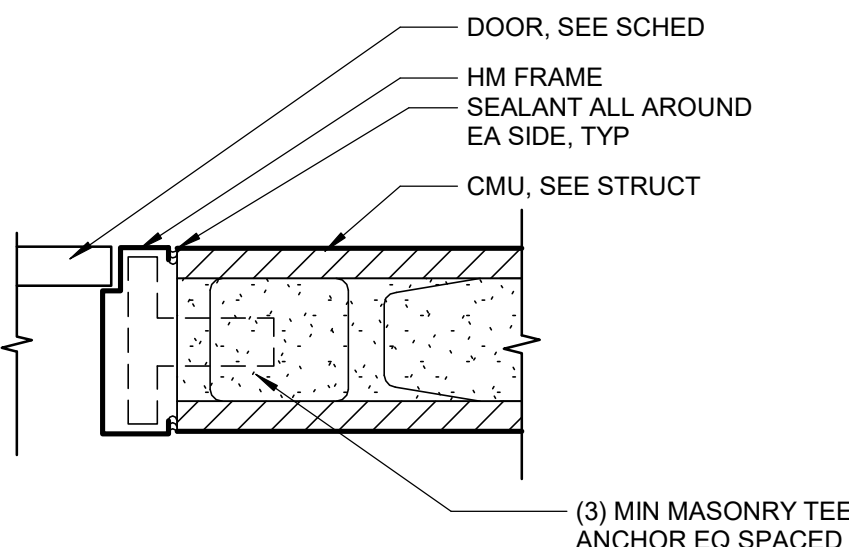
CLIENT SACRAMENTO CITY UNIFIED SCHOOL DISTRICT  
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MARK	DATE	DESCRIPTION
	09/10/2023	DSA SUBMITTAL
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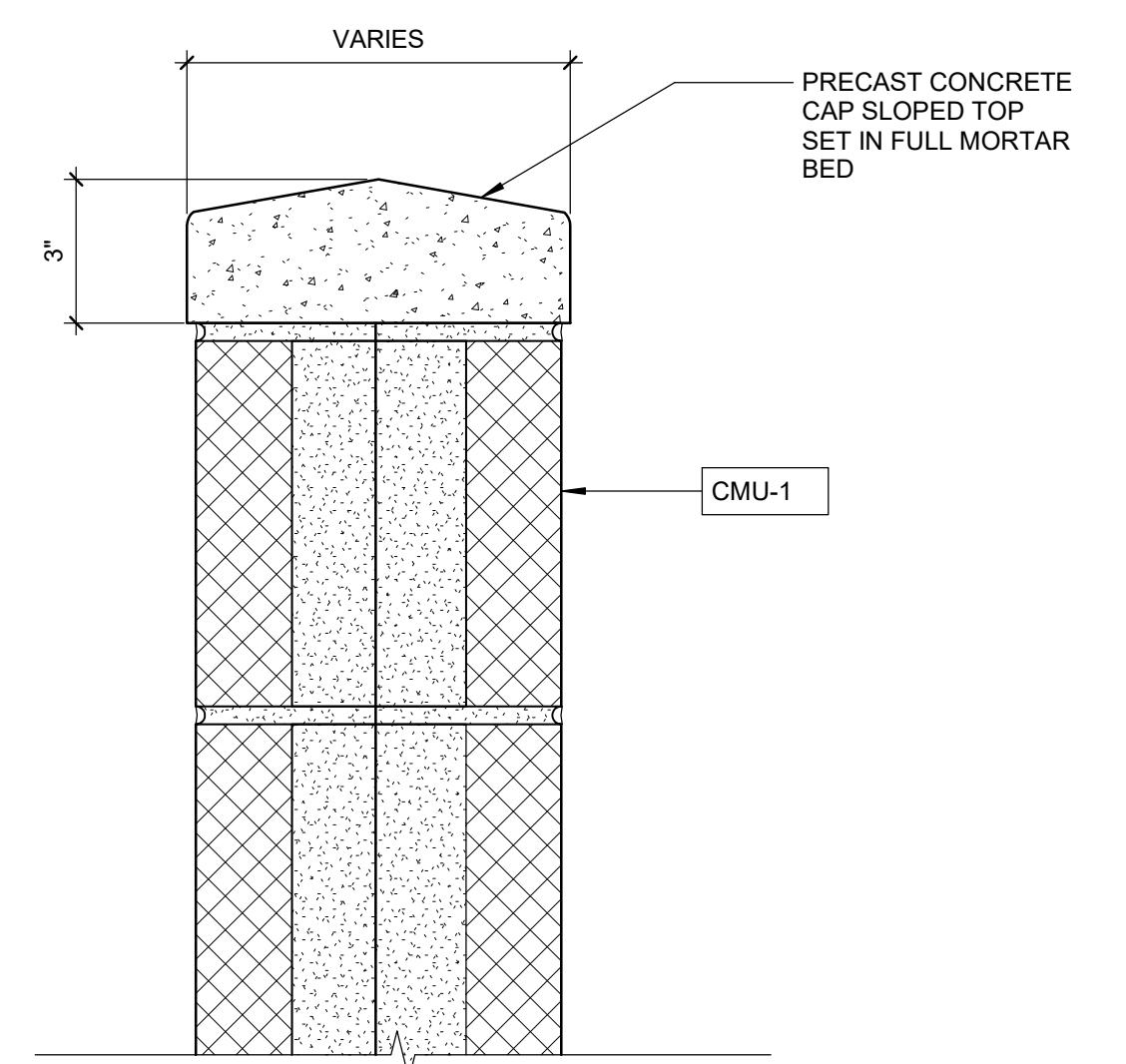
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DSA APPLICATION NO.	02-121593
CLIENT PROJECT NO.	
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TITLE SITE DETAILS AND DOOR SCHEDULE

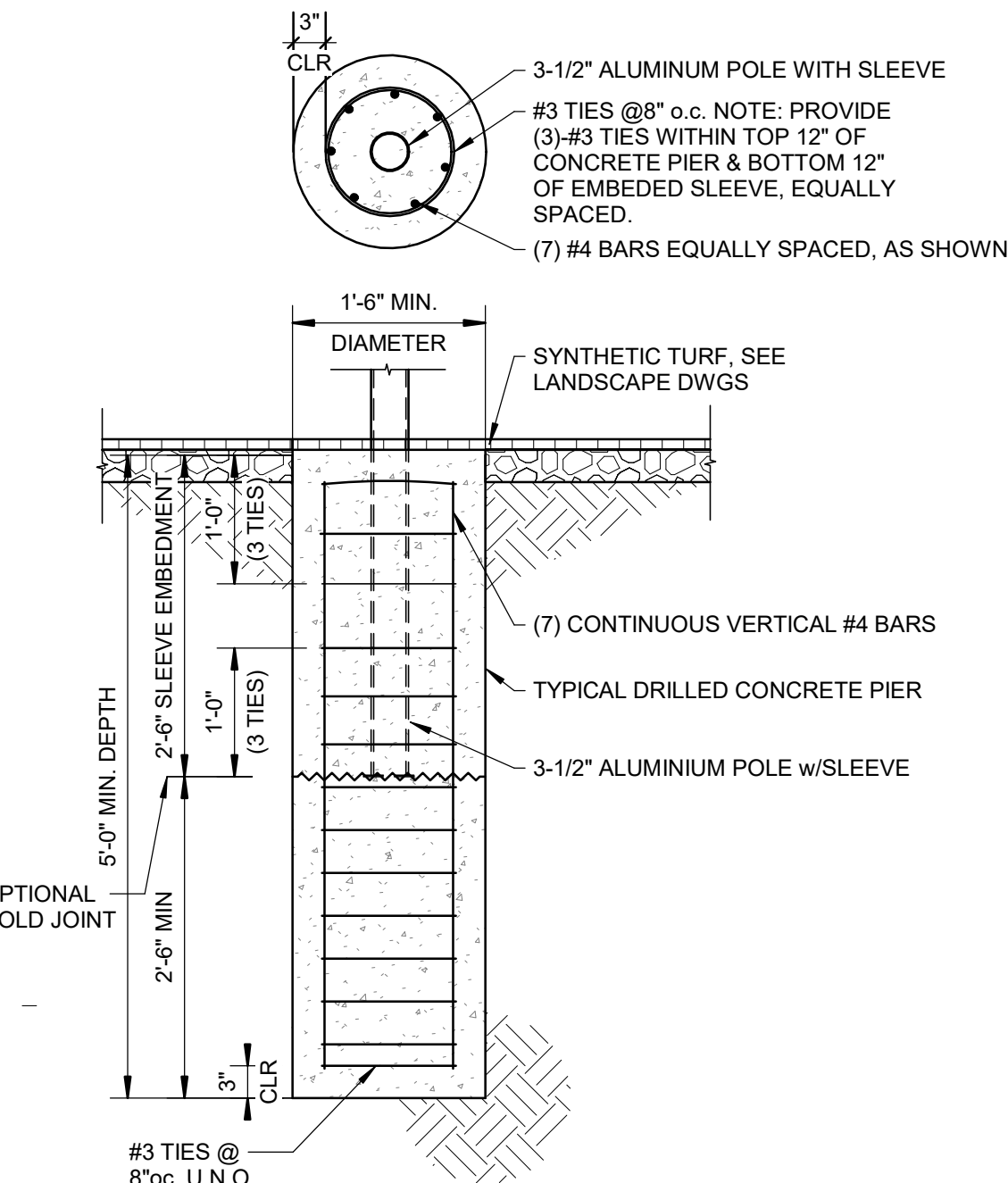
SHEET AS501



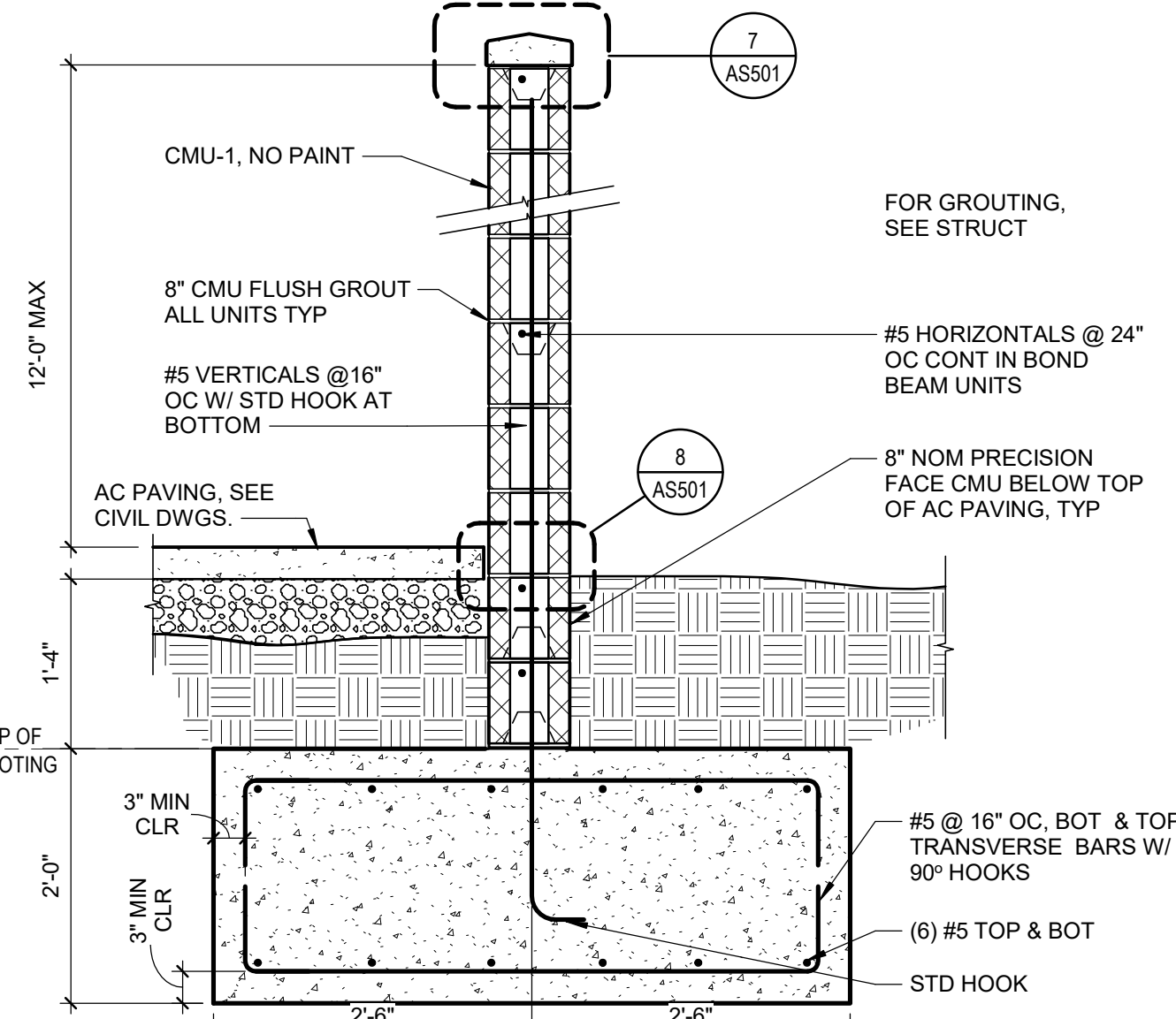
2 DOOR JAMB AT CMU (HEAD SIM) 1/2" = 1'-0"



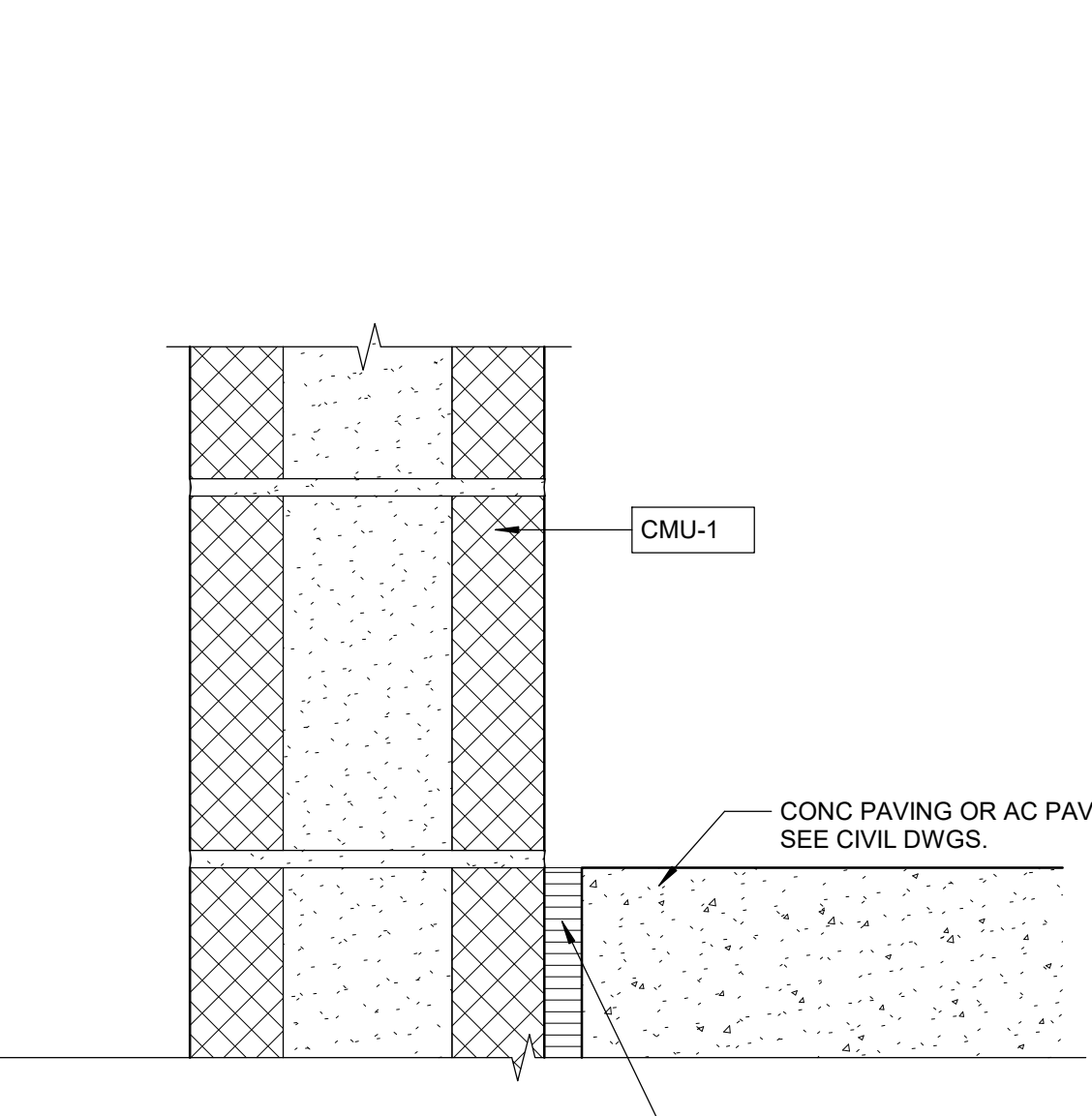
7 BALL WALL - CMU COPING 3/4" = 1'-0"



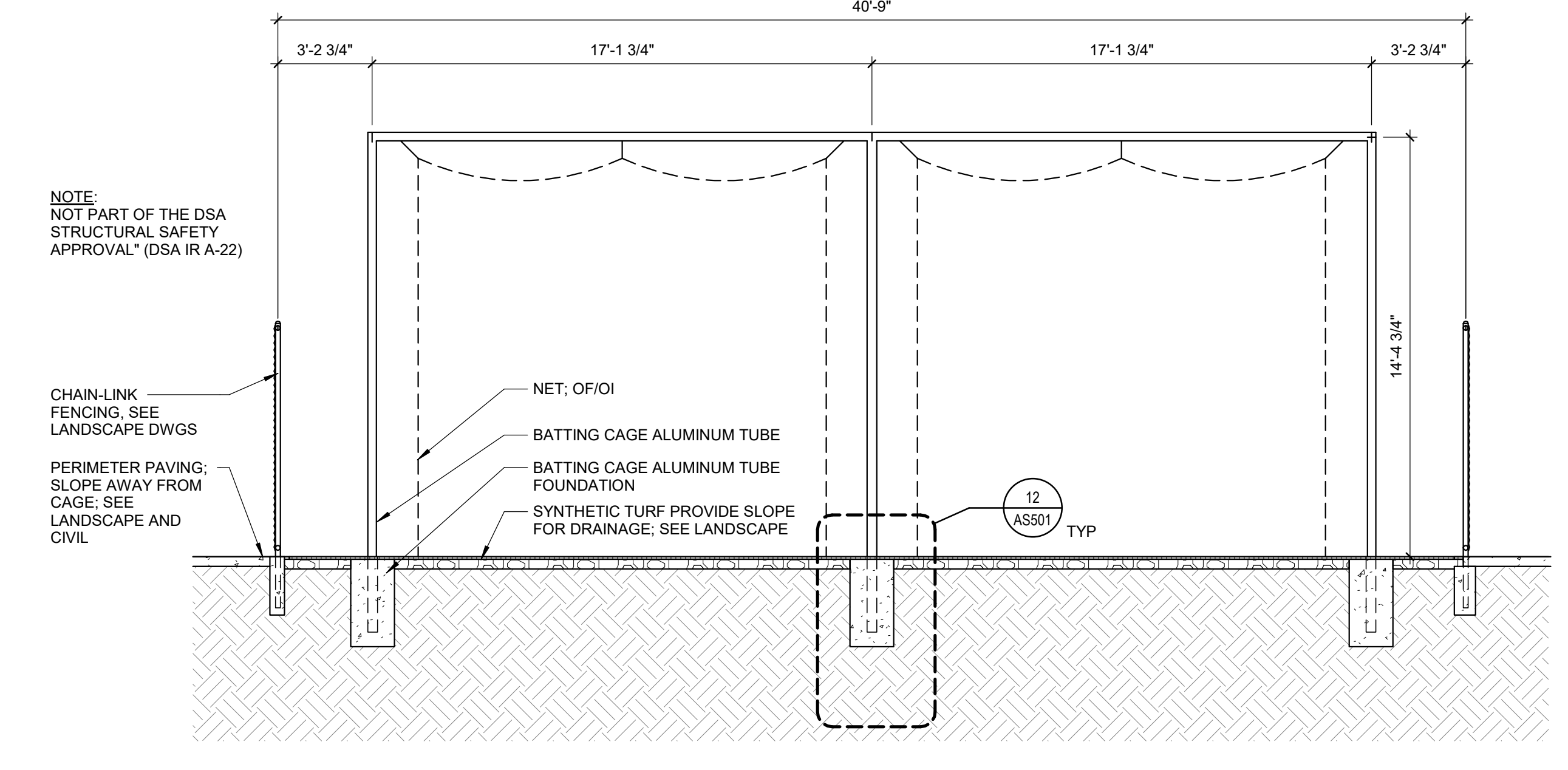
12 BATTING CAGE POLE FOUNDATION 3/4" = 1'-0"



4 BALL WALL - CMU WALL SECTION 3/4" = 1'-0"



8 BALL WALL - CMU BASE 3/4" = 1'-0"



16 BATTING CAGE SECTION 1/4" = 1'-0"

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0, 1/4", 1/2", 3/4", 1"

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

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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 SHOP 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 1/2", 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 CONDUITS ARE INSTALLED, TO PREVENT MOISTURE FROM COMING IN CONTACT WITH WIRTS.
- 12. REFER TO CIVIL DRAWINGS FOR EXACT LOCATIONS OF SITE LIGHTING FIXTURES AND IRRIGATION CONTROLLERS.
- 13. SITE PULLBOXES FOR BRANCH CIRCUITS 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 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 ORIGINATES, 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 SUITING 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. 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.
- 33. MAINTAIN A MINIMUM OF 12" BETWEEN ELECTRICAL RACEWAYS AND LOW-VOLTAGE TELECOMMUNICATION SYSTEM CABLEING.
- 34. 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.
- 35. INSTALLATION OF EXPOSED CONDUIT IN PUBLIC SPACES IS PROHIBITED WITHOUT SPECIAL PERMISSION.
- 36. PROVIDE A PULL WIRE TAPE IN ALL EMPTY CONDUIT RUNS OVER 15' IN LENGTH.
- 37. 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.
- 38. PROVIDE ENGRAVED NAMEPLATES FOR ALL ELECTRICAL PANELBOARDS, SWITCHBOARDS, SWITCHGEAR, TRANSFORMERS, AND DISCONNECT SWITCHES, AS DESCRIBED IN THE SPECIFICATIONS.
- 39. CONTRACTOR SHALL ENSURE THAT THE ELECTRICAL EQUIPMENT PROVIDED UNDER THEIR CONTRACTOR SHALL 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 DIMENSIONS.
- 40. 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.
- 41. ALL FLOOR AND/OR FREE-STANDING ELECTRICAL EQUIPMENT SHALL BE MOUNTED ON A 4" HIGH CONCRETE HOUSEKEEPING PAD, U.O.N.
- 42. 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.
- 43. ALL OUTDOOR ELECTRICAL EQUIPMENT SHALL BE WEATHERPROOF (NEMA 3R RATED, MINIMUM) AND LISTED FOR EXTERIOR APPLICATIONS.
- 44. 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.

POWER DISTRIBUTION

- PANELBOARD, 277/480V, SURFACE MOUNTED ON WALL.
- PANELBOARD, 277/480V, FLUSH MOUNTED ON WALL.
- PANELBOARD, 120/208V, SURFACE MOUNTED ON WALL.
- PANELBOARD, 120/208V, FLUSH MOUNTED ON WALL.
- ELECTRIC MOTOR, NEC. MAKE POWER CONNECTIONS ONLY AS NOTED ON PLANS.
- EXHAUST FAN MOTOR, SINGLE PHASE, NEC. 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.
- ELECTRICAL PULLBOX OR HANDHOLE, SIZE AND TYPE AS NOTED ON PLANS.
- SIGNAL PULLBOX OR HANDHOLE, SIZE AND TYPE AS NOTED ON PLANS.
- 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
- 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.
- MEDIUM-VOLTAGE, INDIVIDUALLY DRAW-OUT MOUNTED VACUUM CIRCUIT BREAKER.
- GROUND FAULT RELAY INTEGRAL WITH CIRCUIT BREAKER.
- ELECTRICALLY OPERATED CIRCUIT BREAKER, INTEGRAL.
- SHUNT-TRIP INTEGRAL WITH OVERCURRENT PROTECTION DEVICES.
- PRIVATE METER, MOUNTED INTEGRAL WITH OVERCURRENT PROTECTION OR SEPARATE WITH SWITCHGEAR.
- PRIVATE METER, MOUNTED IN SEPARATE ENCLOSURE FROM SWITCHGEAR OR SWITCHBOARDS.
- SURGE PROTECTION DEVICE, 'SPD'.
- DIGITAL METERING UNIT.

LINESTYLES

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

CONVENTIONS

- NUMBERED NOTE, APPLIES TO ALL DRAWINGS.
- NUMBERED SHEET NOTE, APPLIES TO DRAWING CONTAINING NOTES ONLY.
- OVERCURRENT PROTECTIVE DEVICE NUMBER IDENTIFICATION TAG, REFERS TO LOCATION OF PROTECTIVE OR CONTROL DEVICE WITHIN SWITCHBOARDS, DISTRIBUTION BOARDS, MOTOR CONTROL CENTERS, ETC.
- EQUIPMENT IDENTIFICATION TAG; ITEM FURNISHED AND INSTALLED UNDER ANOTHER DIVISION AND WIRED UNDER THIS DIVISION.
- FEEDER TAG, REFER TO FEEDER SCHEDULE.
- DETAIL REFERENCE:  
DETAIL DESIGNATION  
SHEET NUMBER
- 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

- JUNCTION BOX, WALL MOUNTED, +18" UON.
- JUNCTION BOX, MOUNTED IN FLUSH FLOOR BOX.
- JUNCTION BOX, MOUNTED FLUSH IN CEILING.
- JUNCTION BOX, SURFACE OR PENDANT MOUNTED TO BOTTOM OF STRUCTURE IN ACCESSIBLE CEILING SPACE OR EXPOSED IN OPEN CEILING AREAS.
- 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

- SINGLE-POLE, SINGLE-THROW SWITCH, WALL MOUNTED, +42" UON.
- THREE-WAY SWITCH, WALL MOUNTED, +42" UON.
- FOUR-WAY SWITCH, WALL MOUNTED, +42" UON.
- SINGLE-POLE, SINGLE-THROW SWITCH, KEY-OPERATED, WALL MOUNTED, +42" UON.
- SINGLE-POLE, SINGLE-THROW SWITCH, WITH PILOT LIGHT, WALL MOUNTED, +42" UON.
- WALL BOX DIMMER SWITCH, +42" UON. SIZED PER CONNECTED LOAD ON PLANS AND FURNISHED FOR LAMP SOURCE SERVED, PROVIDED FOR DERATING WHEN INSTALLED GANGED LOCATIONS.
- SINGLE-POLE, TIMER CONTROLLED SWITCH, WALL MOUNTED, +42" UON.
- SINGLE-POLE, SINGLE-THROW SWITCH, EXPLOSION PROOF, WALL MOUNTED, +42" UON.
- LINE VOLTAGE SINGLE RELAY VACANCY SENSOR, WALL MOUNTED, +42" UON.
- SINGLE-POLE, SINGLE-THROW SWITCH WITH WEATHERPROOF COVER, WALL MOUNTED, +42" UON.
- SINGLE-POLE SWITCH WITH AUTOMATIC HUMIDITY CONTROL, WALL MOUNTED, +42" UON.
- DUAL LEVEL OCCUPANCY SENSOR SWITCH, WALL MOUNTED, +42" UON.
- SINGLE LEVEL OCCUPANCY SENSOR SWITCH, WALL MOUNTED, +42" UON.
- COMBINATION OCCUPANCY SENSOR AND DIMMER SWITCH, WALL MOUNTED, +42" UON.
- OCCUPANCY SENSOR FOR AREA COVERAGE, CEILING MOUNTED.
- PHOTOELECTRIC CELL SENSOR, CEILING MOUNTED.
- EGRESS LIGHTING TRANSFER DEVICE.
- 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.
- 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 A 4 1/16" 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 KOS IN COVERS TO ACCEPT FURNITURE WHIPS. TELECOMMUNICATIONS WHIP SHALL BE 1.25" MIN/MIN.
- ELECTRIFIED FURNITURE PARTITION TELECOMMUNICATION CABLE FEEDS, MOUNTED IN FIRE-RATED POKE-THRU FLOOR FITTING WITH 1.25" KOS IN COVER TO ACCEPT FURNITURE WHIPS.
- WIRELESS ACCESS POINT, WALL MOUNTED, 6" BELOW FINISHED CEILING, UON.
- WIRELESS ACCESS POINT, CEILING MOUNTED.
- QUANTITY OF DATA AND/OR VOICE TELECOMMUNICATIONS DEVICES.
- TELECOMMUNICATION DEVICE, WALL MOUNTED, +18" UON, FOR ELEVATOR USE IN ELEVATOR MACHINE/CONTROLLER ROOM.
- TELECOMMUNICATION DEVICE, FOR EMERGENCY PHONES, MOUNTED AS NOTED ON PLANS.

SERVICES

- 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
AFF	ABOVE FINISHED FLOOR	MCC	MOTOR CONTROL CENTER
AIC	ASYMMETRIC INTERRUPTING CURRENT	MDF	MAIN DISTRIBUTION FRAME
AL	ALUMINUM	MLO	MAIN LUGS ONLY
		MTC	EMPTY CONDUIT
AT	AMPERE OVERCURRENT TRIP (WHEN APPLIED TO CIRCUIT BREAKERS)	MTS	MANUAL TRANSFER SWITCH
		NTS	NOT TO SCALE
AV	AUDIO / VIDEO	NO	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
CP	CIRCULATION PUMP	OFCL	OWNER FURNISHED CONTRACTOR INSTALLED
CT	CURRENT TRANSFORMER	PA	PUBLIC ADDRESS
CU	COPPER	POZ	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
EW	ELECTRIC WATER HEATER	TC	TIME CLOCK
F	FUSED	TP	TWISTED-PAIR
(F)	FUTURE	SOZ	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
G	GROUND	VA	VOLTS-AMPS
GB	GROUND BUS	VFD	VARIABLE FREQUENCY DRIVE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	VM	VENDING MACHINE
GND	GROUND	WAP	WIRELESS ACCESS POINT
GRAP	GENERATOR REMOTE ANNUNCIATOR PANEL	WP	WEATHERPROOF
		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
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
E000	SYMBOLS, PROJECT NOTES, AND SHEET INDEX
E001	SCHEDULES, POWER ONE LINE & RISER DIAGRAMS
E002	TITLE 24
E100	OVERALL ELECTRICAL SITE PLAN
E200	ENLARGED BASEBALL FIELD ELECTRICAL PLAN
E201	ENLARGED SOFTBALL FIELD ELECTRICAL PLAN
E300	ELECTRICAL DETAILS

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SEAL

PROJECT  
**LUTHER BURBANK HIGH SCHOOL**  
**ATHLETIC FIELDS RENOVATION**

3500 FLORIN ROAD  
SACRAMENTO, CA 95823

CLIENT  
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

5735 47TH AVENUE, SACRAMENTO, CA 95824

MARK	DATE	DESCRIPTION
	08/10/2023	DSA SUBMITTAL
	12/01/2023	BID SET - NOT DSA APPROVED

ISSUED

MARK	DATE	DESCRIPTION
	08/10/2023	DSA SUBMITTAL
	12/01/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

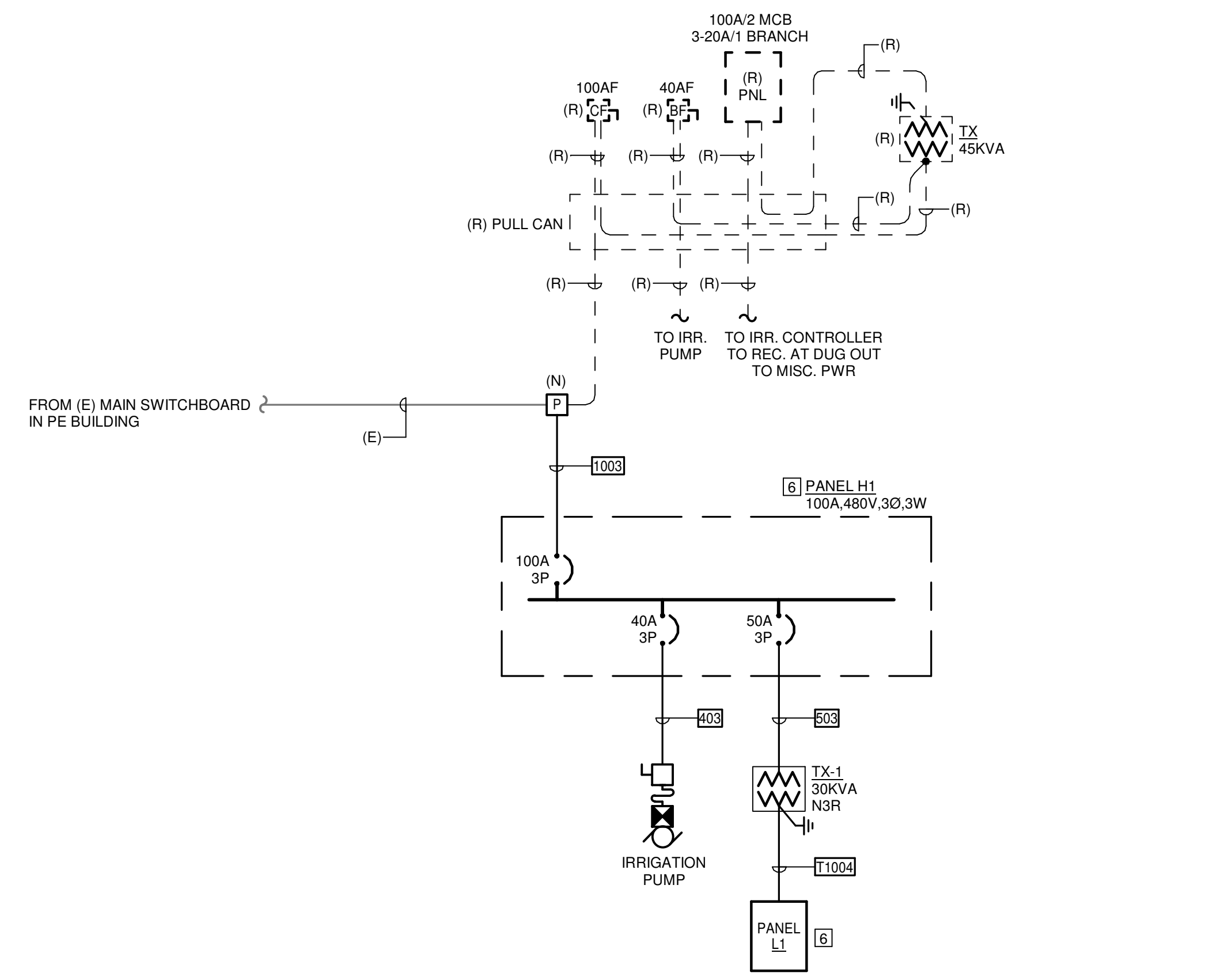
LIONAKIS PROJECT NO.:	023041
DSA APPLICATION NO.:	02-121610

0 1/4" = 1'

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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-IMR13-(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	208 V	3/E300
SF1A	GARDCO PUREFORM P26-48L-500-NW-G2-AR-5-UNV-BL-IMR13-(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	208 V	3/E300
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, IP68 RATED, PROGRAM INTEGRAL SENSOR PER DIRECTION FROM THE OWNER.	LED 4000K ~6,236 LUMEN	0-10V DIMMING	55 W	120 V	

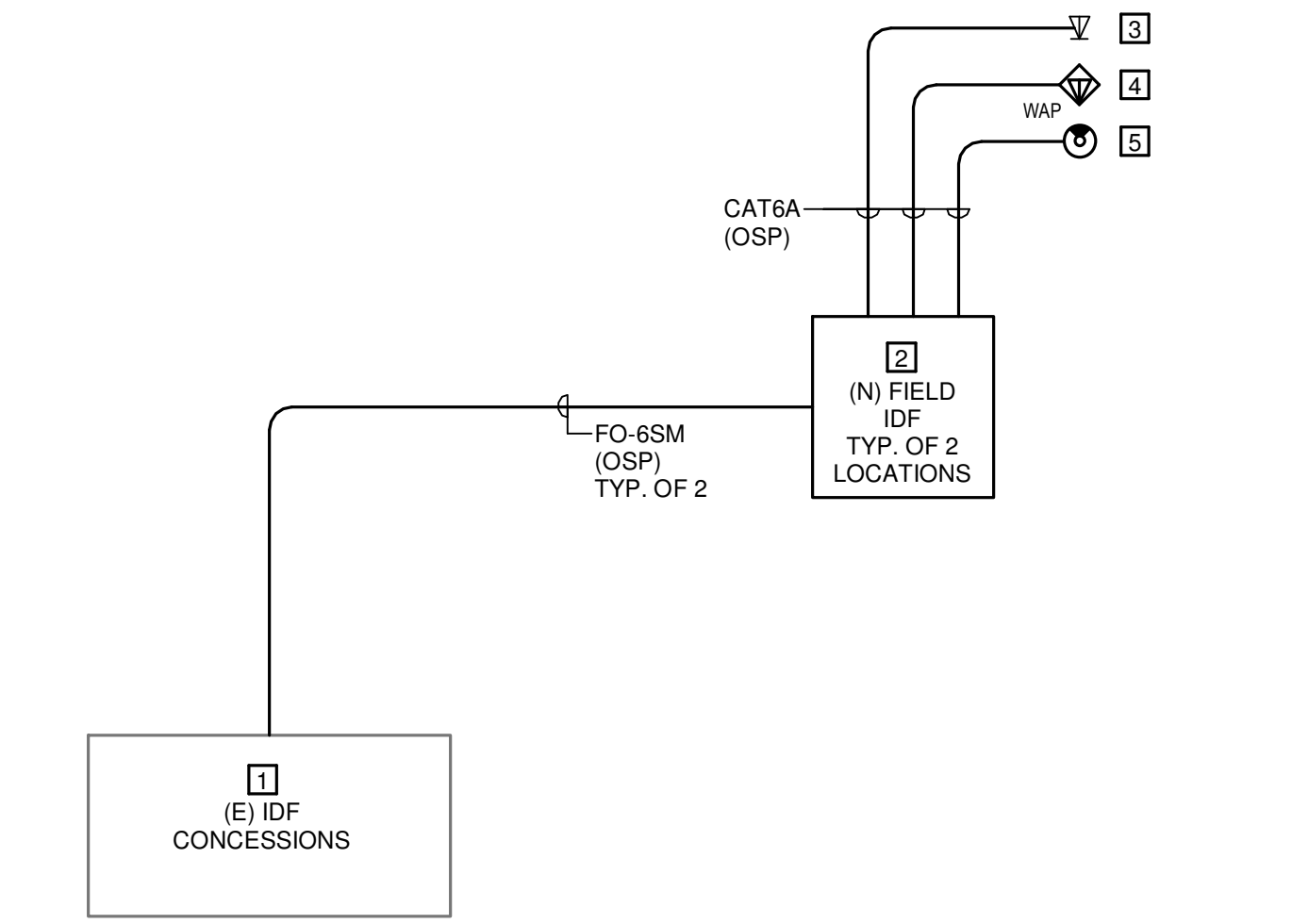
FEEDER SCHEDULE							
FEEDER TAG	FEEDER DESCRIPTION	CONDUIT	CONDUCTORS		SEPARATELY DERIVED SYSTEM		REMARKS
			PHASE/NEUTRAL	GROUND	GROUNDING ELECTRODE	BONDING JUMPER	
403	40 AMP, 3 WIRE	1-0.75"	3 #8 CU	1 #10 CU	-	-	-
503	55 AMP, 3 WIRE	1-0.75"	3 #6 CU	1 #10 CU	-	-	-
1003	95 AMP, 3 WIRE	1-1.25"	3 #2 CU	1 #8 CU	-	-	E
T1004	110 AMP, 4 WIRE	1-1.50"	4 #1 CU	1 #8 CU	#6 CU IN 0.75" C.	#6 CU	B,F



1 POWER ONE LINE DIAGRAM  
SCALE:N.TS

GENERAL SHEET NOTES	
A.	FIBER OPTIC OUTSIDE PLANT (OSP) DATA CABLING SHALL BE 9/125 SINGLE-MODE, 6-STRAND, SUPERIOR ESSEX W400B101.
B.	COPPER OUTSIDE PLANT DATA CABLING SHALL BE CAT6A, SUPERIOR ESSEX 04-001-A8.

NUMBERED SHEET NOTES	
1	PROVIDE NEW FIBER OPTIC TERMINATION PANEL AS REQUIRED TO SUPPORT ALL NEW FIBER CABLE IN IDF EQUIPMENT RACK.
2	PROVIDE 8-PORT MEDIA CONVERTER (ALTRONIX NETWSP8X OR EQUAL), PROVIDE 120V CIRCUIT TO POWER SUPPLY WITHIN ENCLOSURE.
3	PROVIDE 1- DATA DROP AT IRRIGATION CONTROLLER.
4	TYPICAL, PROVIDE 1- DATA DROP FOR EACH SECURITY CAMERA SHOWN ON DRAWINGS.
5	TYPICAL, PROVIDE 1- DATA DROP FOR EACH WIRELESS ACCESS POINT SHOWN ON DRAWINGS.
6	PROVIDE A TESCO 24-000NR FREESTANDING ENCLOSURE FOR PANELS H1 AND L1 IN SIDE BY SIDE CONFIGURATION.



2 LOW VOLTAGE RISER DIAGRAM  
SCALE:N.TS

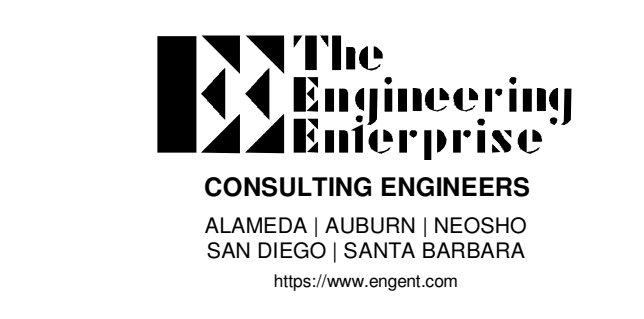
Branch Panel: PANEL H1 [6]												
Location:		Served From		Phases		A.I.C. Rating:		Bus Rating		Main Type:		Main Rating:
(N) ELECTRICAL YARD		(E) MSB		3		14K		100 A		MCB		100 A
Mounting:		Volts:		Wires		Main Type:		Main Rating:				
PAD MOUNT		480		3		MCB		100 A				
LC	Load Served	Amp	P	#	A (kVA)	B (kVA)	C (kVA)	#	P	Amp	Load Served	LC
L; R; P	TX-1	50	3	3	2.49	8.86	2.44	8.86	6	40	IRRIGATION PUMP	M
--	space	--	7	--	--	--	--	8	1	--	space	--
--	space	--	9	--	--	--	--	10	1	--	space	--
--	space	--	11	--	--	--	--	12	1	--	space	--
<b>Total Load:</b>		11.35 kVA		11.46		11.30						
<b>Total Amps:</b>		41 A		41.38 A		40.77 A						
Load Classification		Conn. Load		Demand Factor		Code Demand		Panel Totals				
Motor		26.57 kVA		125.00%		33.22 kVA		Connected Load:		34.11 kVA		
Lighting		1.21 kVA		125.00%		1.52 kVA		Connected Amps:		41.02 A		
Receptacle		4.32 kVA		100.00%		4.32 kVA		Code Demand Load:		41.05 kVA		
Power		2 kVA		100.00%		2 kVA		Code Demand Amps:		49.38 A		

Branch Panel: PANEL L1 [6]												
Location:		Served From		Phases		A.I.C. Rating:		Bus Rating		Main Type:		Main Rating:
(N) ELECTRICAL YARD		TX-1		3		10K		100 A		MCB		100 A
Mounting:		Volts:		Wires		Main Type:		Main Rating:				
PAD MOUNT		120/208		4		MCB		100 A				
LC	Load Served	Amp	P	#	A (kVA)	B (kVA)	C (kVA)	#	P	Amp	Load Served	LC
R	REC BASEBALL VISTOR SIDE	20	A	1	0.90	0.22		2	2	20	SITE LIGHTING	L
R	REC BASEBALL HOME SIDE	20	A	1	3	0.72	0.22	4	4	20	SITE LIGHTING	L
R	BASEBALL MEDIA CONVERTER	20	A	1	5	0.18	0.50	6	6	20	SOFTBALL SCOREBOARD	P
R	REC BASEBALL CAGE	20	A	1	7	0.36	0.50	8	2	20	SOFTBALL SCOREBOARD	P
L	BASEBALL CAGE LTG	20	A	1	9	0.44	0.50	10	2	20	BASEBALL SCOREBOARD	P
R	REC SOFTBALL VISTOR SIDE	20	A	1	11	0.72	0.50	12	2	20	BASEBALL SCOREBOARD	P
R	SOFTBALL MEDIA CONVERTER	20	A	1	13	0.18	--	14	1	--	space	--
R	REC SOFTBALL HOME SIDE	20	A	1	15	0.54	--	16	1	--	space	--
R	REC SOFTBALL CAGE	20	A	1	17	--	0.36	--	18	1	space	--
L	SOFTBALL CAGE LTG	20	A	1	19	0.33	--	20	1	--	space	--
R	BASEBALL BACKSTOP	20	A	1	21	0.18	--	22	1	--	space	--
R	SOFTBALL BACKSTOP	20	A	1	23	0.18	--	24	1	--	space	--
<b>Total Load:</b>		2.49 kVA		2.60		2.44						
<b>Total Amps:</b>		21 A		21.75 A		20.33 A						
Load Classification		Conn. Load		Demand Factor		Code Demand		Panel Totals				
Lighting		1.21 kVA		125.00%		1.52 kVA		Connected Load:		7.53 kVA		
Receptacle		4.32 kVA		100.00%		4.32 kVA		Connected Amps:		20.91 A		
Power		2 kVA		100.00%		2 kVA		Code Demand Load:		7.84 kVA		
								Code Demand Amps:		21.75 A		



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SEAL



PROJECT  
**LUTHER BURBANK HIGH SCHOOL  
ATHLETIC FIELDS RENOVATION**

3500 FLORIN ROAD  
SACRAMENTO, CA 95823

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

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MANAGEMENT		
LIONAKIS PROJECT NO.	023041	
DSA APPLICATION NO.	02-121610	
CLIENT PROJECT NO.	23-118	
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TITLE  
**SCHEDULES, POWER  
ONE LINE & RISER  
DIAGRAMS**

SHEET

E001

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Outdoor Lighting CERTIFICATE OF COMPLIANCE NRCC-LTO-4 Project Name: Luther Burbank High School Athletic Fields Renovation

A. GENERAL INFORMATION Table with columns for Project Location, Climate Zone, Outdoor Lighting Zone, and Occupancy Types.

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)(2) / 180.2(b)(4)(b) for alterations.

Outdoor Lighting CERTIFICATE OF COMPLIANCE NRCC-LTO-4 Project Name: Luther Burbank High School Athletic Fields Renovation

G. SHIELDING REQUIREMENTS (BUG) This table includes fixtures of >=6,200 initial lumens indicated on Table F as needing to comply with Shielding Requirements.

FOOTNOTES: Mounting Height is labeled MH in this table. 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)

Outdoor Lighting CERTIFICATE OF COMPLIANCE NRCC-LTO-4 Project Name: Luther Burbank High School Athletic Fields Renovation

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.

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE Selections have been made based on information provided in this document.

Outdoor Lighting CERTIFICATE OF COMPLIANCE NRCC-LTO-4 Project Name: Luther Burbank High School Athletic Fields Renovation

C. COMPLIANCE RESULTS Results in this table are automatically calculated from data input and calculations in Tables F through N.

D. EXCEPTIONAL CONDITIONS This table is auto-filled with unedited 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.

Outdoor Lighting CERTIFICATE OF COMPLIANCE NRCC-LTO-4 Project Name: Luther Burbank High School Athletic Fields Renovation

H. OUTDOOR LIGHTING CONTROLS This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application.

FOOTNOTE: Text has been abbreviated, please refer to Table 160.5-A to confirm compliance with the specific light source technologies listed.

Outdoor Lighting CERTIFICATE OF COMPLIANCE NRCC-LTO-4 Project Name: Luther Burbank High School Athletic Fields Renovation

DOCUMENTATION AUTHOR'S DECLARATION OF STATEMENT I certify that this Certificate of Compliance documentation is accurate and complete.

RESPONSIBLE PERSON'S DECLARATION STATEMENT I certify that the information provided on this Certificate of Compliance is true and correct.

Outdoor Lighting CERTIFICATE OF COMPLIANCE NRCC-LTO-4 Project Name: Luther Burbank High School Athletic Fields Renovation

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.

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

Outdoor Lighting CERTIFICATE OF COMPLIANCE NRCC-LTO-4 Project Name: Luther Burbank High School Athletic Fields Renovation

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/170.2-A-R while "Use it or lose it"

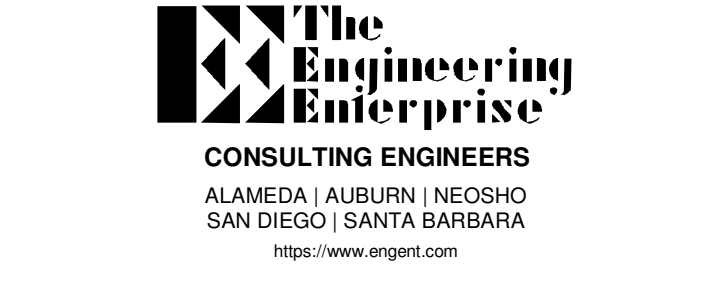
J. LIGHTING ALLOWANCE: PER APPLICATION This section does not apply to this project.

K. LIGHTING ALLOWANCE: SALES FRONTAGE This section does not apply to this project.

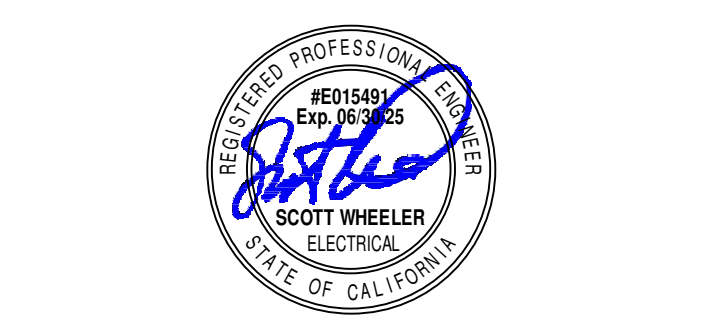
L. LIGHTING ALLOWANCE: ORNAMENTAL This section does not apply to this project.



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PROJECT LUTHER BURBANK HIGH SCHOOL ATHLETIC FIELDS RENOVATION

3500 FLORIN ROAD SACRAMENTO, CA 95823

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

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MANAGEMENT table with columns for LIONAKIS PROJECT NO., DSA APPLICATION NO., CLIENT PROJECT NO., and COPYRIGHT

TITLE TITLE 24

SHEET E002

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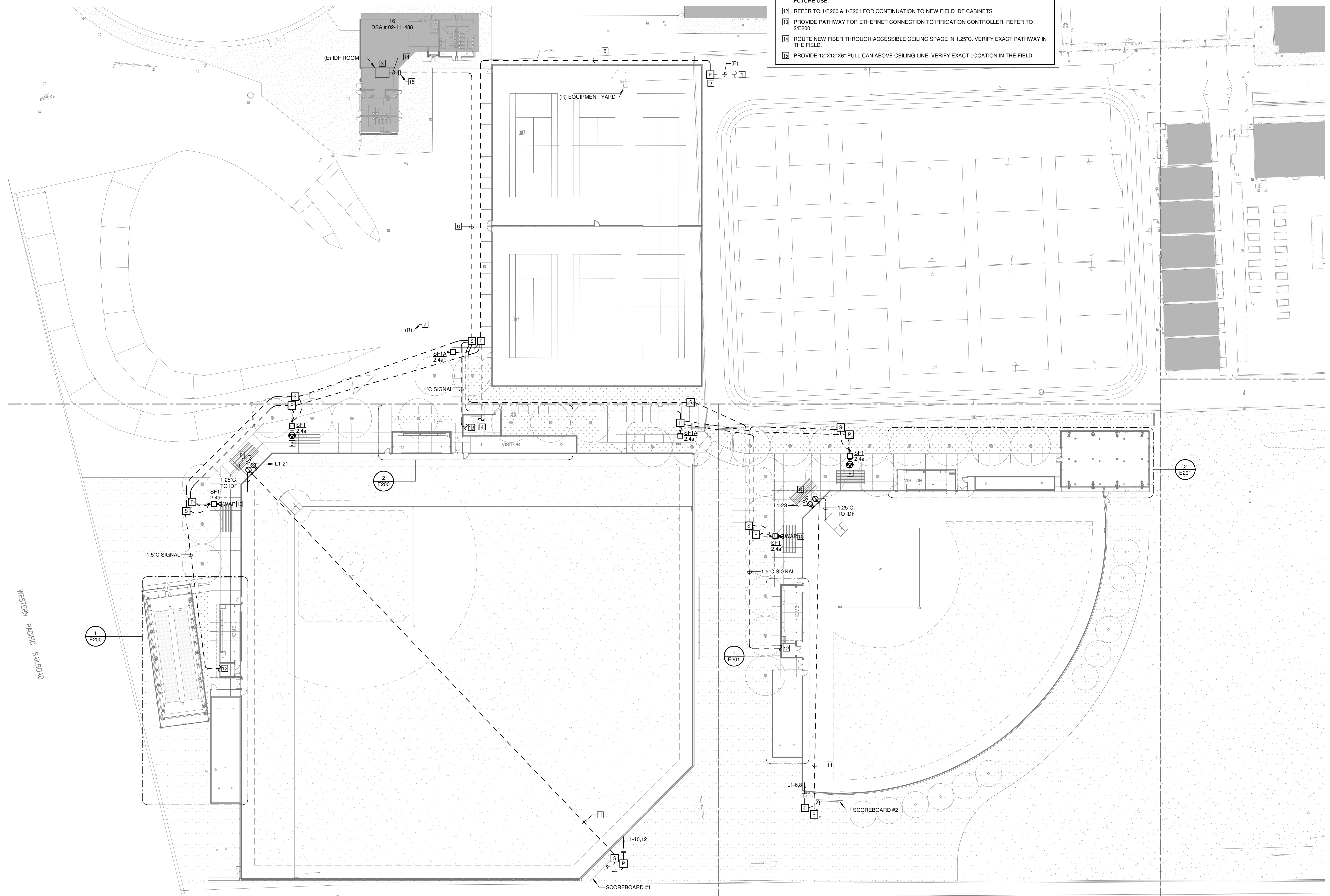
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### NUMBERED SHEET NOTES

- 1 EXISTING FEEDER FROM EXISTING SWITCHBOARD AT PE BUILDING 14, DSA #21238.
- 2 INTERCEPT EXISTING 480V FEEDER.
- 3 APPROXIMATE LOCATION OF EXISTING IDF ROOM IN CONCESSIONS BUILDING 16, DSA #02-111488. CONTRACTOR TO VERIFY EXACT LOCATION.
- 4 REFER TO 2/E200 FOR CONTINUATION TO NEW ELECTRICAL YARD.
- 5 REFER TO FEEDER SCHEDULE AND POWER ONE LINE DIAGRAM FOR SIZE AND QUANTITIES.
- 6 EXTEND 2" C FROM (E) IDF TO FIELD FOR NEW FIBER TO FIELD IDF.
- 7 REMOVE (E) POLE. RETURN ASSOCIATED EQUIPMENT BACK TO DISTRICT.
- 8 PROVIDE POWER BEHIND BACKSTOP FOR SCOREBOARD CONTROL STATION. PROVIDE J-BOX FOR FUTURE CONTROL AND/OR DATA. WITH 1.25" C FROM THE "IDF" AND 1.25" C TO THE SCOREBOARD.
- 9 PROVIDE POLE MOUNTED SECURITY CAMERA AT 12'-0" AFF. PROVIDE HANDHOLE/HUB ON POLE AT 12'-0".
- 10 PROVIDE WIRELESS ACCESS POINT WITHIN OBERON 1022-00 ENCLOSURE. PROVIDE HANDHOLE/HUB ON POLE AT 12'-0" MOUNT ENCLOSURE TO POLE HANDHOLE WITH MANUFACTURER HARDWARE.
- 11 STUB 0.75" SIGNAL CONDUIT PATHWAY FROM SCOREBOARD CONTROL STATION AT BACKSTOP TO POLE BASE OF SCOREBOARD. PROVIDE PULL STRING AND TERMINATE WITH CAP FOR FUTURE USE.
- 12 REFER TO 1/E200 & 1/E201 FOR CONTINUATION TO NEW FIELD IDF CABINETS.
- 13 PROVIDE PATHWAY FOR ETHERNET CONNECTION TO IRRIGATION CONTROLLER. REFER TO 2/E200.
- 14 ROUTE NEW FIBER THROUGH ACCESSIBLE CEILING SPACE IN 1.25" C. VERIFY EXACT PATHWAY IN THE FIELD.
- 15 PROVIDE 12"x12"x6" PULL CAN ABOVE CEILING LINE. VERIFY EXACT LOCATION IN THE FIELD.

### 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.
- D. HANDHOLES/PULLBOXES FOR POWER SHALL BE SIZED PER CEC 314.28. 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.
- 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.

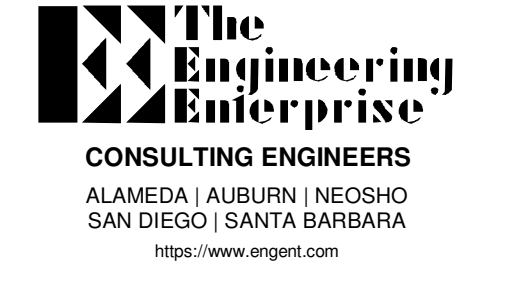


**1** OVERALL ELECTRICAL SITE PLAN  
SCALE: 1" = 30'-0"



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MANAGEMENT	NO.
LIONAKIS PROJECT NO.	023041
DSA APPLICATION NO.	02-121610
CLIENT PROJECT NO.	23-118
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TITLE  
**OVERALL ELECTRICAL  
SITE PLAN**

SHEET  
**E100**

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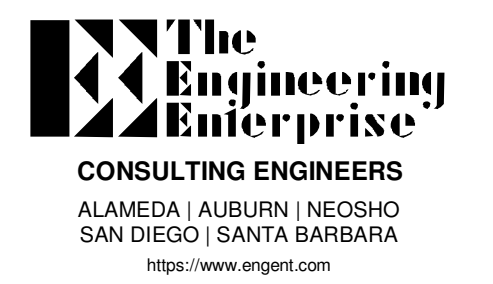
### NUMBERED SHEET NOTES

- [1] REFER TO 1/E100 FOR CONTINUATION TO (E) ELECTRICAL YARD.
- [2] REFER TO 1/E100 FOR CONTINUATION TO (E) IDF ROOM AT CONCESSIONS BUILDING.
- [3] PROVIDE 8-PORT MEDIA CONVERTER, REFER TO 2/E001. PROVIDE 120V CIRCUIT TO POWER SUPPLY AT ENCLOSURE.
- [4] INSTALL RECEPTACLE ON PVC INSULATED GALVANIZED RIGID CONDUIT RISER. RUN NEW CONDUIT FROM NEAREST (N) POWER PULLBOX SHOWN ON SITE PLAN.
- [5] PROVIDE AN ASTRONOMIC ELECTRONIC LIGHTING CONTROLLER FOR EXTERIOR POLE LIGHTS, INTERMATIC MODEL# ET9225C, OR EQUAL. PROVIDE WITH OUTDOOR WEATHERPROOF METAL ENCLOSURE.
- [6] PROVIDE DATA FOR IRRIGATION CONTROLLER, REFER TO 2/E001.

# LIONAKIS

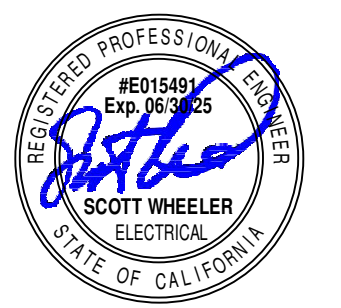
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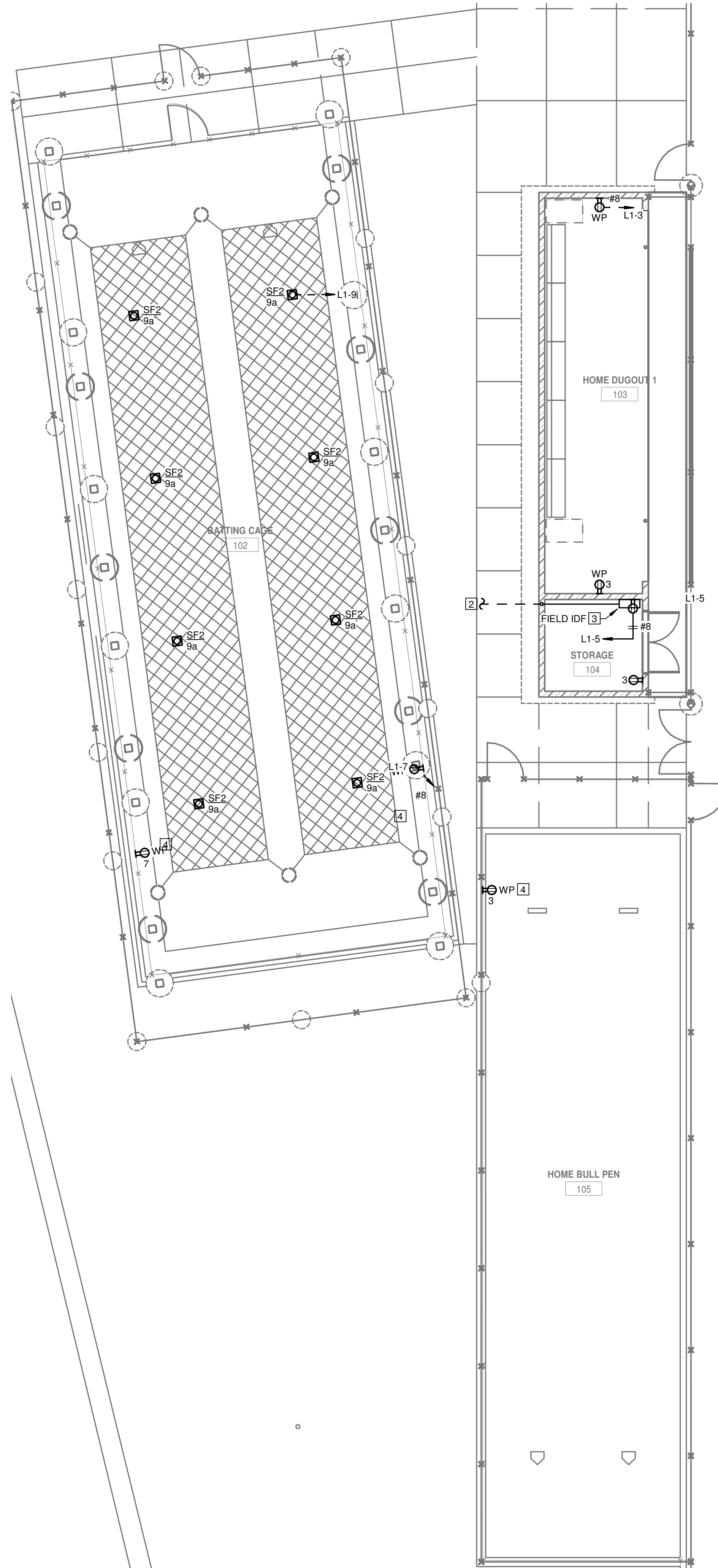
CLIENT  
 SACRAMENTO CITY UNIFIED SCHOOL DISTRICT  
 5735 47TH AVENUE, SACRAMENTO, CA 95824

ISSUED		
MARK	DATE	DESCRIPTION
	08/10/2023	DSA SUBMITTAL
	12/01/2023	BID SET - NOT DSA APPROVED

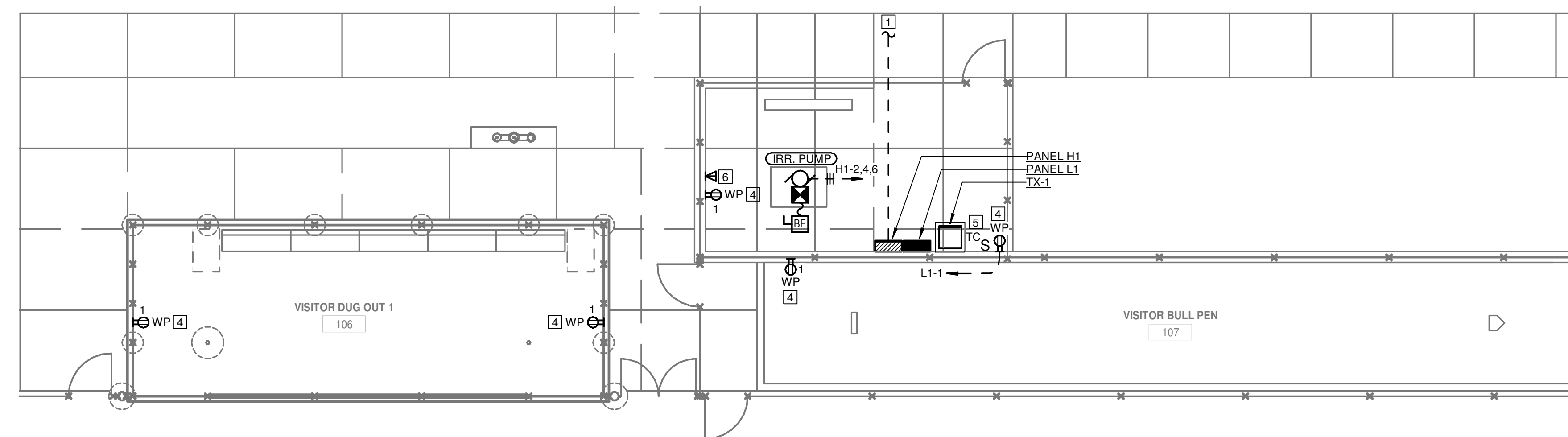
MANAGEMENT	
LIONAKIS PROJECT NO.:	023041
DSA APPLICATION NO.:	02-121610
CLIENT PROJECT NO.:	23-118
COPYRIGHT:	LIONAKIS 2022

TITLE  
**ENLARGED BASEBALL  
 FIELD ELECTRICAL  
 PLAN**

SHEET  
**E200**



**1** ENLARGED HOME DUG OUT, BULLPEN & BATTING CAGES  
 SCALE: 1/8" = 1'-0"



**2** ENLARGED VISITORS DUG OUT & BULLPEN  
 SCALE: 1/8" = 1'-0"



0 1/4" = 1'

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

C

B

C:\Users\jstaszler\Documents\BURBANK\_HS\_ELEC\_SITE\_022 JUSTIN ZASLER@ENGINEERING.COM.NW

11/27/2023 2:28:57 PM

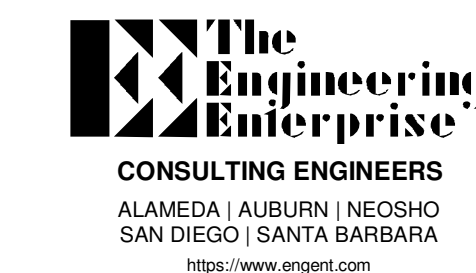
### NUMBERED SHEET NOTES

- 1 REFER TO 1/E100 FOR CONTINUATION TO (E) IDF ROOM AT CONCESSIONS BUILDING.
- 2 PROVIDE 8-PORT MEDIA CONVERTER. REFER TO 2/E001. PROVIDE 120V CIRCUIT TO POWER SUPPLY AT ENCLOSURE.
- 3 INSTALL RECEPTACLE ON PVC-INSULATED GALVANIZED RIGID CONDUIT RISER. RUN NEW CONDUIT FROM NEAREST (N) POWER PULLBOX SHOWN ON SITE PLAN.

# LIONAKIS

2025 Nineteenth Street  
Sacramento CA 95818  
P 916.558.1900 F 916.558.1919  
www.lionakis.com

CONSULTANT



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SEAL



PROJECT  
**LUTHER BURBANK HIGH SCHOOL  
ATHLETIC FIELDS RENOVATION**

3500 FLORIN ROAD  
SACRAMENTO, CA 95823

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

ISSUED

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	08/10/2023	DSA SUBMITTAL
	12/01/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

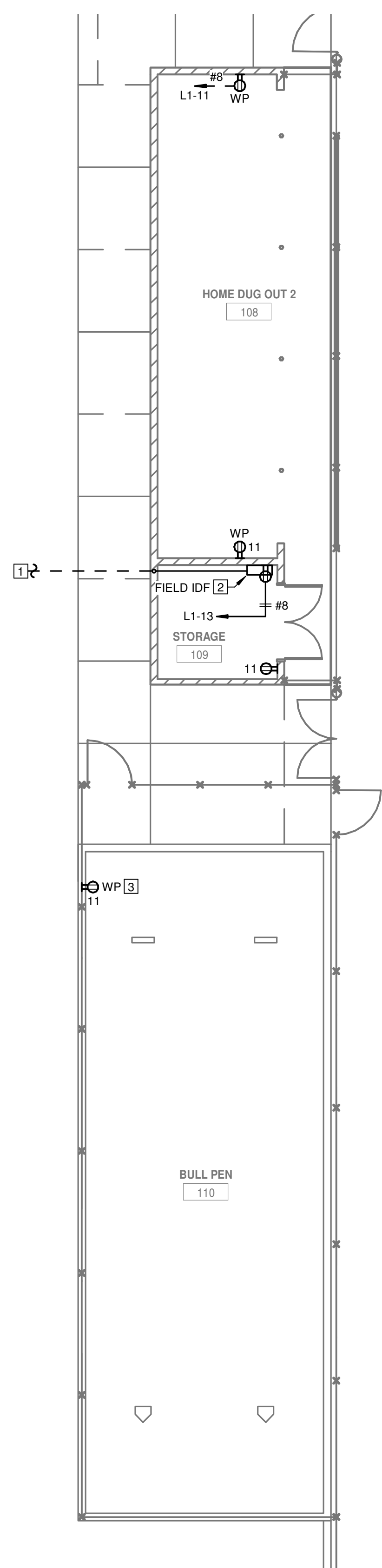
LIONAKIS PROJECT NO:	023041
DSA APPLICATION NO:	02-121610
CLIENT PROJECT NO:	23-118
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TITLE

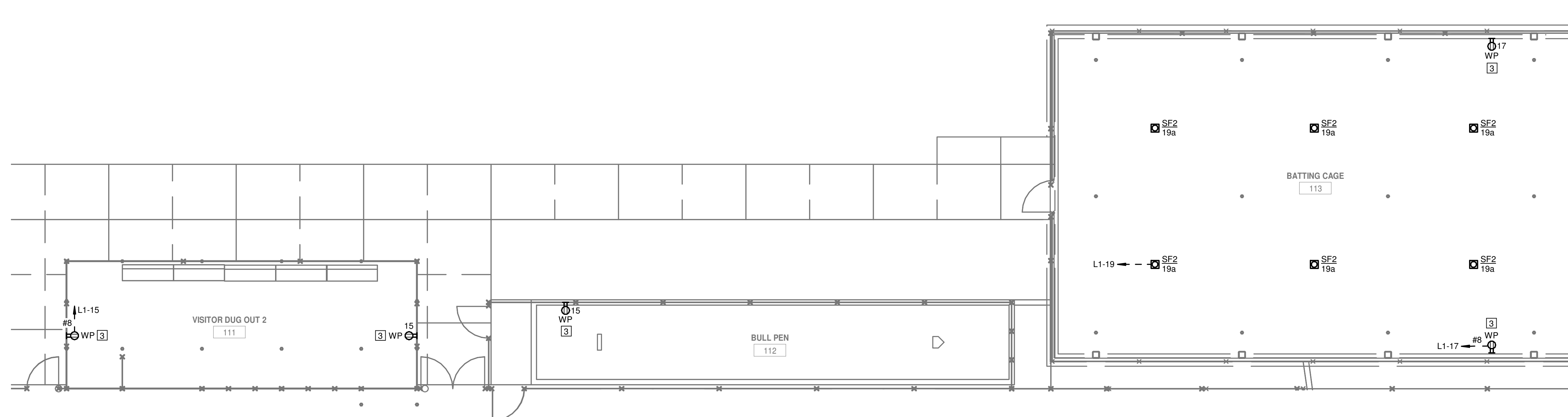
**ENLARGED SOFTBALL  
FIELD ELECTRICAL  
PLAN**

SHEET

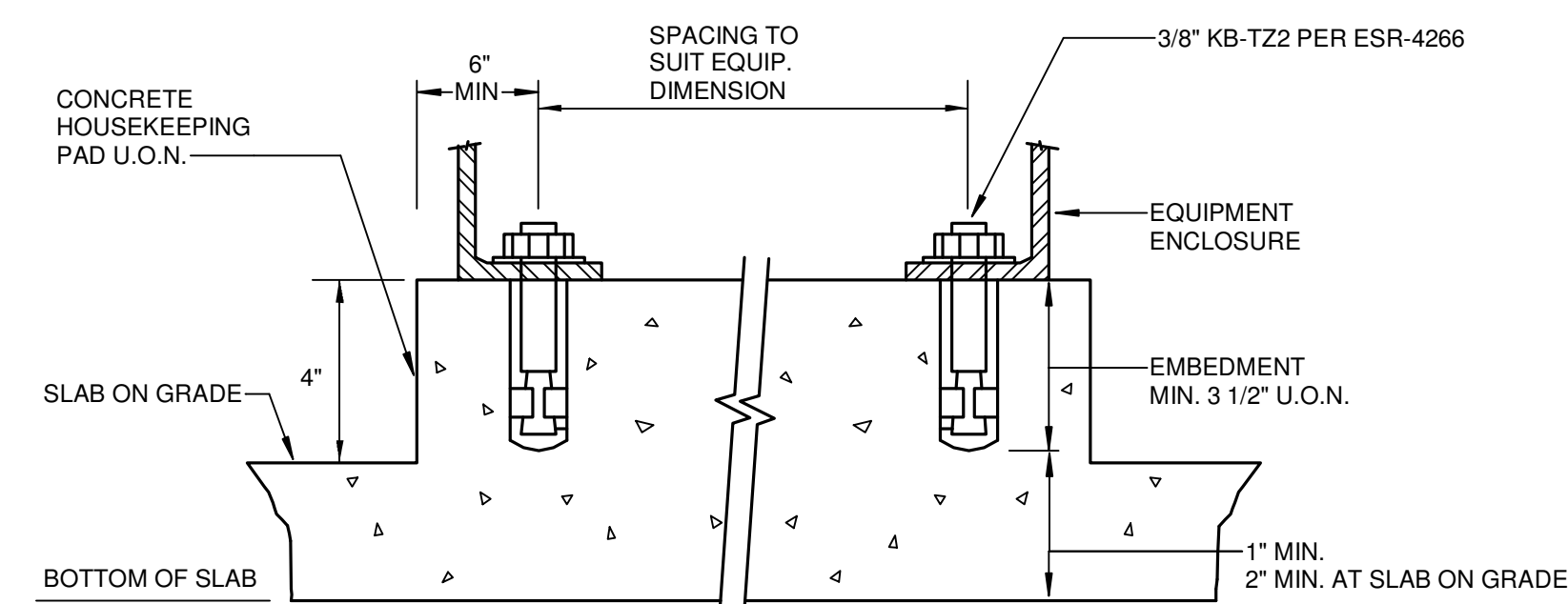
**E201**



**1 ENLARGED HOME DUG OUT & BULLPEN**  
SCALE: 1/8" = 1'-0"



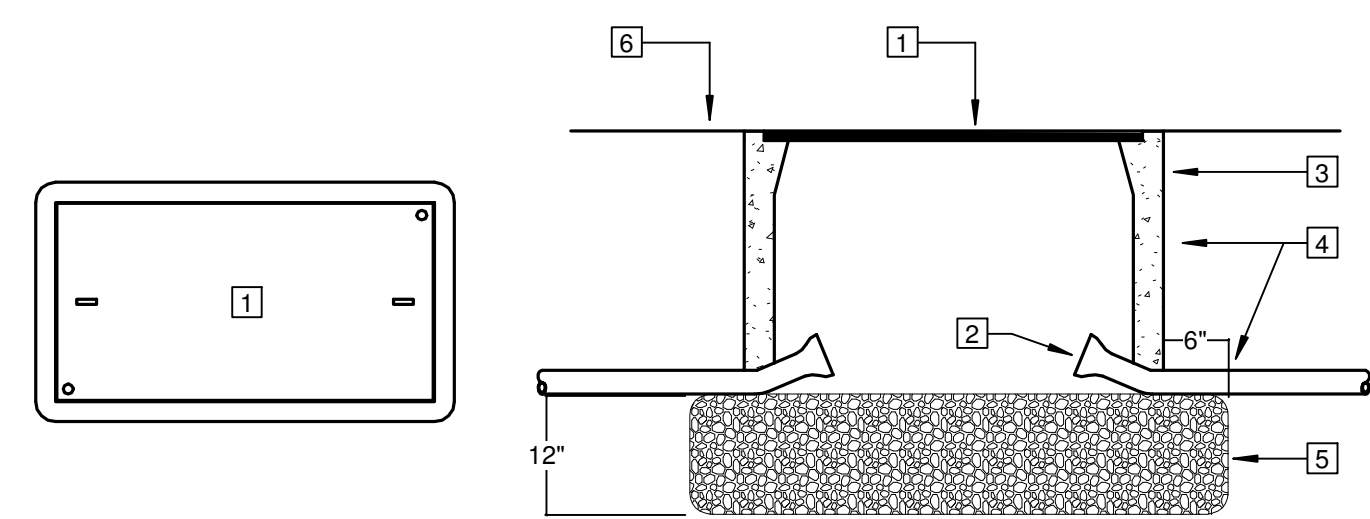
**2 ENLARGED VISITORS DUG OUT, BULLPEN & BATTING CAGES**  
SCALE: 1/8" = 1'-0"



PEDESTALS : 2 PER SIDE. (2/E200)  
TRANSFORMER : 2 PER SIDE. (2/E200)

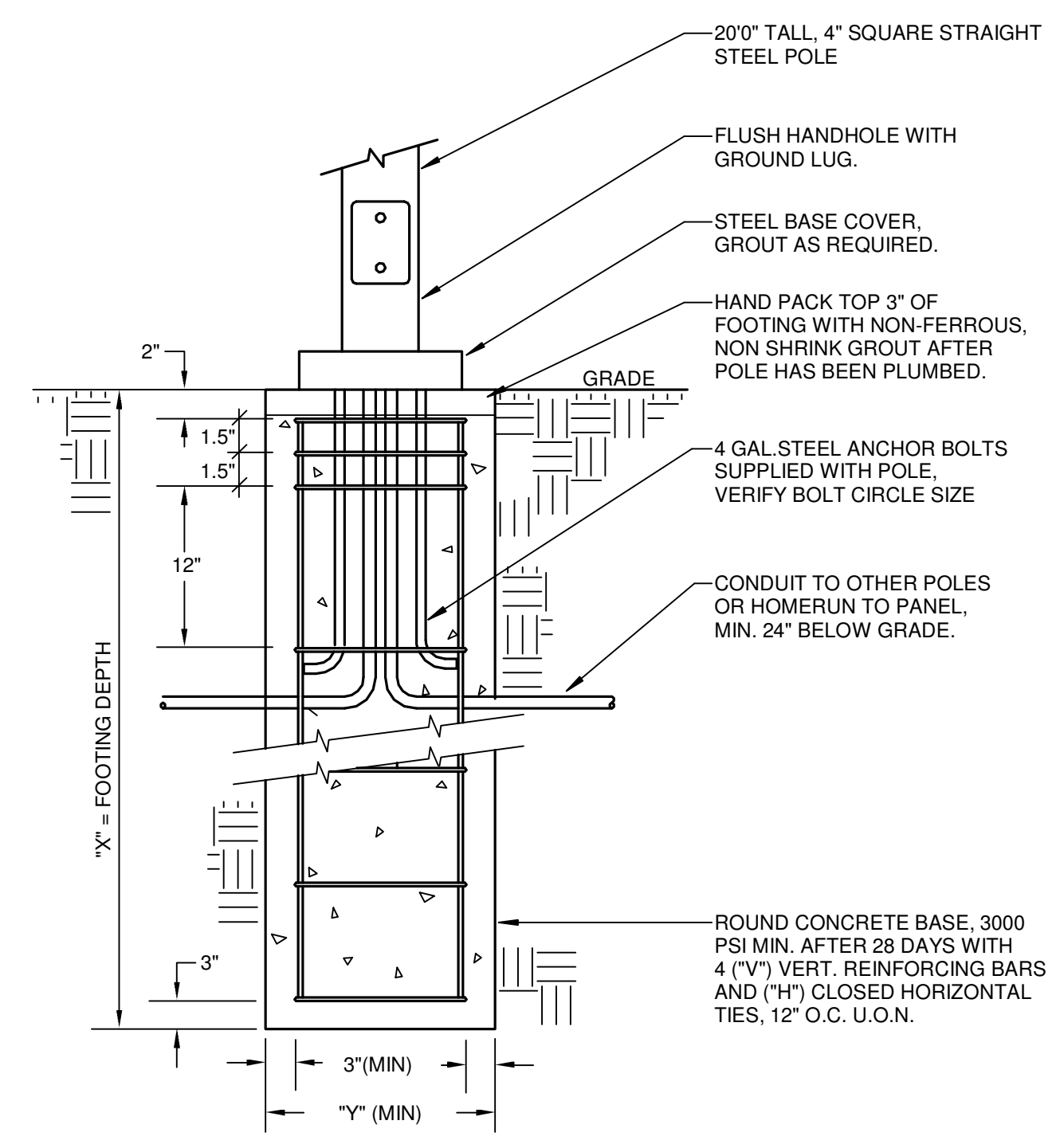
REFER TO PLANS FOR EQUIPMENT DIMENSIONS. TOTAL EQUIPMENT WEIGHT LESS THAN 400#.

**1 ELECTRICAL EQUIPMENT FASTENING DETAIL**  
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

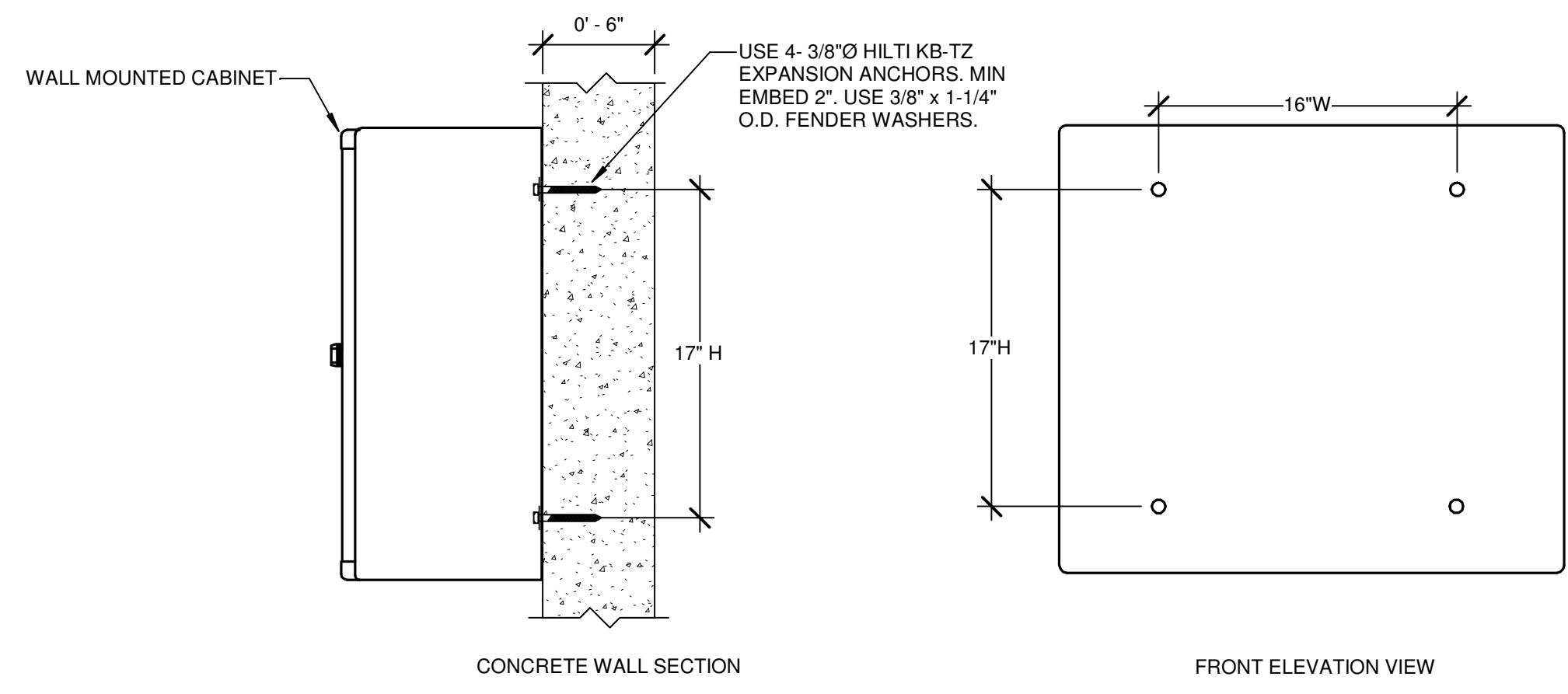
**2 SITE PULLBOX INSTALLATION DETAIL**  
SCALE: NTS



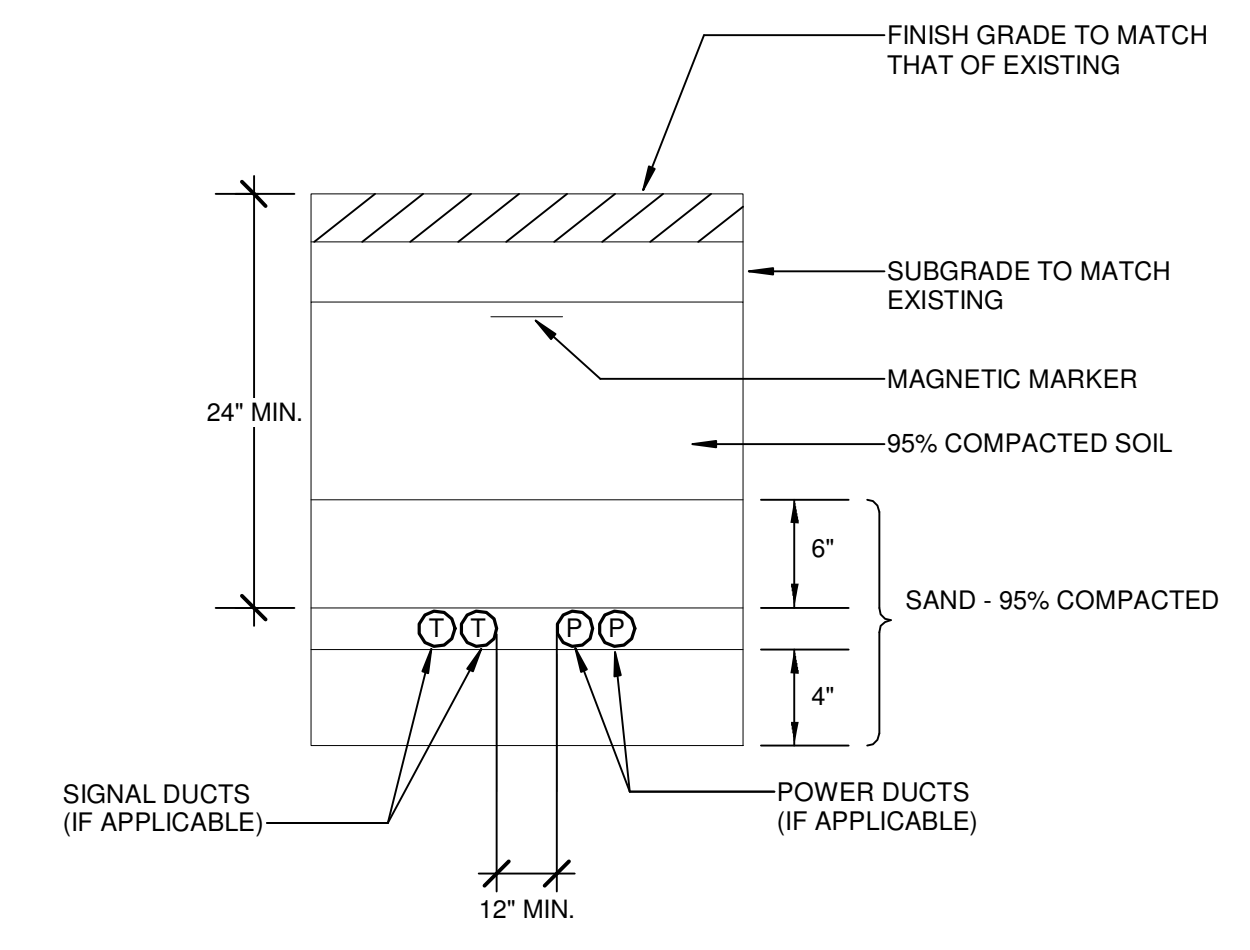
NOMINAL HEIGHT	POLE HEIGHT	BOLT CIRCLE	"H"	"V"	"X"	"Y"
20'-0"	20'-0"	9.5'-11"	#3	#4	5'-0"	24"

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

**3 LIGHTING POLE BASE DETAIL**  
SCALE: NTS



**4 WALL MOUNTED IDF CABINET**  
SCALE: NTS



**5 JOINT TRENCH 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 TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC, SECTIONS 1617A.1.13 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.

**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.

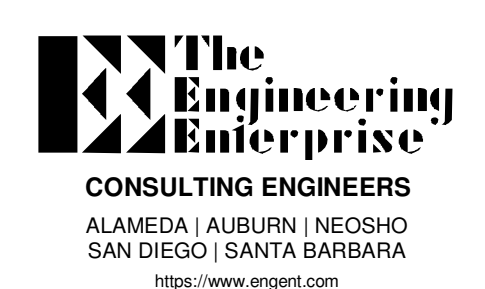
THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PRE-APPROVED INSTALLATION GUIDE (e.g. OSHPD OPM FOR 2019 CBC OR LATER), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEERING OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

ELECTRICAL DISTRIBUTION SYSTEMS, OPTION 2: SHALL COMPLY WITH THE APPLICABLE HCAI (OSHPD) PRE-APPROVAL (OPM #) 0043-01.

**LIONAKIS**

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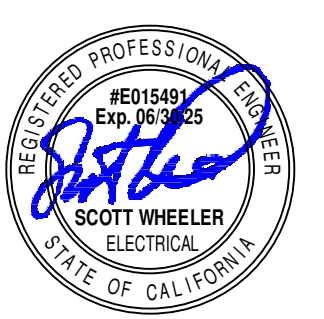
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SEAL



PROJECT  
**LUTHER BURBANK HIGH SCHOOL  
ATHLETIC FIELDS RENOVATION**

3500 FLORIN ROAD  
SACRAMENTO, CA 95823

CLIENT  
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT  
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MANAGEMENT	
LIONAKIS PROJECT NO.	023041
DSA APPLICATION NO.	02-121610
CLIENT PROJECT NO.	23-118
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TITLE  
**ELECTRICAL DETAILS**

SHEET  
**E300**

# M BAR C MULTI-PURPOSE/GYM CANOPY 22.0



**4 STEEL ENGINEERING**  
26230 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  
PHONE: (760) 744-4131  
FAX: (760) 744-4449  
WWW.MBARCONLINE.COM

ENGINEER'S APPROVAL  
**DUSTIN K. ROSEPINK**  
REGISTERED PROFESSIONAL ENGINEER  
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  FL  ACS  CG   
DATE: 11/09/2023

**LIONAKIS**  
2025 Nineteenth Street  
Sacramento CA 95818  
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www.lionakis.com

CONSULTANT  
  
SEAL  
**LIONAKIS**  
REGISTERED ARCHITECT  
SACRAMENTO, CALIFORNIA  
02872

PROJECT  
**LUTHER BURBANK HIGH SCHOOL  
ATHLETIC FIELDS RENOVATION**  
3500 FLORIN ROAD  
SACRAMENTO, CA 95823  
CLIENT  
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT  
5735 47TH AVENUE, SACRAMENTO, CA 95824

MARK	DATE	DESCRIPTION
	12/01/2023	BID SET - NOT DSA APPROVED

MANAGEMENT	DESCRIPTION
LIONAKIS PROJECT NO:	023041
DSA APPLICATION NO:	02-121593
CLIENT PROJECT NO:	
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## 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, DRRPINK@4STELENG.COM
- FOR CONSTRUCTION COST INFORMATION, CONTACT M BAR C CONSTRUCTION, INC.
- CUSTOM SIZES AND LOADING REQUIRE SUPPLEMENTARY SHOP DRAWINGS AND CALCULATIONS.

## LEGAL NOTES

- USE OF THE PC WITHOUT WRITTEN CONSENT FROM M BAR C CONSTRUCTION, INC. IS STRICTLY PROHIBITED.
- ALL INFORMATION HEREIN IS PROPRIETARY INFORMATION AND UNDER THE OWNERSHIP OF M BAR C CONSTRUCTION, INC.

## DESIGN PARAMETER NOTES

- REFER TO SHEET S-2 FOR 'DESIGN CHECK LIST' AND 'SITE SPECIFIC PARAMETERS'.
- WHEN A SITE-SPECIFIC PROJECT IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X, A LETTER STAMPED FROM A GEOTECHNICAL ENGINEER 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.
- WET STAMPED & SIGNED COPIES OF PC PLANS ARE NOT REQUIRED FOR SITE SPECIFIC PC USE.
- 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.
- 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.
- 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.
- 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.
- THE PC STRUCTURAL MEMBERS ARE DESIGNED TO THE FOLLOWING ASCE 7-16 (SUPPLEMENT 3) SEISMIC CRITERIA:  $S_{ps} = 2.8$ ,  $S_{ps} = 1.867$ ,  $S_1 = 1.39$ ,  $R = 3.5$ .
- CUSTOM SIZES & LOADINGS REQUIRE SUPPLEMENTARY SHOP DRAWINGS & CALCULATIONS.
- THE PC STRUCTURE(S) ARE APPROVED FOR BOTH CLEAR AND OBSTRUCTED WIND FLOW.

## SHEET INDEX

- S-1 .....TITLE SHEET
  - S-2 .....GENERAL DATA
  - S-3 .....GENERAL NOTES
  - S-4 .....EXAMPLE DSA-103 FORMS
  - S-5 .....SECTION PROPERTIES & REBAR DETAILS
  - S-6 .....FRAMING PLAN
  - S-7 .....FRAMING ELEVATIONS
  - S-8 .....FOUNDATION DETAILS
  - S-9 .....FRAMING CONNECTION DETAILS
  - S-10 .....PURLIN & ROOF DECK DETAILS
- 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

SITE SPECIFIC INFORMATION

### REVISIONS

MARK	DATE	DESCRIPTION

4 STEEL 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.

TITLE SHEET

SHEET  
**S-1**

IF THIS SHEET IS NOT 30" x 42" IT IS A REDUCED PRINT - SCALE ACCORDINGLY

### 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  $P_g$ ,  $P_s$ ,  $C_e$ ,  $I$ ,  $C_p$  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 II 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 1004.5. 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 DURABILITY 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 3. 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**

$p_g =$  \_\_\_\_\_ psf  
 0 psf  \_\_\_\_\_ psf  5 psf  20 psf  
 $C_e =$  \_\_\_\_\_

**WIND**

$V =$  93 mph < 105 mph  
 $K_{zt} =$  1  $\leq$  1  
 EXPOSURE:  C  D

**SEISMIC**

DESIGN BASED ON SITE CLASS D (DEFAULT)  
 NO GEOTECHNICAL INVESTIGATION REQUIRED  
 $S_{DS} =$  \_\_\_\_\_  $F_a =$  1.2

DESIGN BASED ON SITE CLASS DETERMINED PER CHAPTER 20 OF ASCE 7-16  
 GEOTECHNICAL INVESTIGATION PROVIDED  
 SITE CLASS:  C  D  E  
 $S_{DS} =$  0.574  $F_a =$  1.34 PER ASCE 7-16 SUPPL 3, TABLE 11.4-1

**SELECT ONE**

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

$S_{DS} = 1/3 F_a S_{DS} = 0.51 \leq 1.867$   
 $C_e = 0.15$  < 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  
 $C_d =$  1.2  
 $I =$  1.0  
 $C_s =$  1.0  
 $F_s =$  0.7  $C_e C_d I P_g C_s$   
**ROOF SNOW**,  $P_g =$   0 PSF,  5 PSF,  20.0 PSF  
 $F_s =$  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.....  $S_{DS} = 2.8$   
 ACCELERATION.....  $S_1 = 1.39$   
 SITE CLASS.....  A-D  E (NOT IN LIQUEFIABLE SOIL AND/OR SITE CLASS F)

DESIGN SPECTRAL RESPONSE.....  $S_{DS} = 1.867$   
 $S_{D1} = 1.390$   
 E<sup>1</sup>

SEISMIC DESIGN CATEGORY.....  
 SEISMIC FORCE RESISTING SYSTEM..... ORDINARY STEEL MOMENT FRAME (OMF) BOTH DIRECTIONS  
 SEISMIC RESPONSE COEFFICIENT.....  $C_d = S_{DS} / R = 0.667$   
 ANALYSIS PROCEDURE..... EQUIVALENT LATERAL FORCE  
 BASE..... FROM USABLE SOIL HT. PER GEOTECHNICAL REPORT

### 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 FOLLOWINGS:

- RISK CATEGORY IS SELECTED IN ACCORDANCE WITH 2022 CBC TABLE 1604A.5, PENDING DSA SITE SPECIFIC APPROVAL.
- OCCUPANCY IS DETERMINED IN ACCORDANCE WITH THE REQUIREMENTS OF 2022 CBC CHAPTERS 3 AND 5.
- 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

- ALL WORK SHALL CONFORM TO 2022 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR)
- 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.
- 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).
- A 'DSA CERTIFIED' INSPECTOR WITH CLASS 2 CERTIFICATION IS REQUIRED FOR THIS PROJECT.
- A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE SCHOOL BOARD SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
- GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
- 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 CPC, CHAPTER 80

### FIRE LIFE SAFETY

AUTOMATIC FIRE SPRINKLERS REQUIRED? (Y/N)..... N

- 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

- CONCRETE BOLLARD ABOVE FOUNDATIONS (RAISED PIERS) CANNOT BE LOCATED IN ACCESSIBLE PARKING SPACES OR ACCESS AISLES.
- SLOPED PORTIONS OF FOUNDATIONS, WHEN LOCATED IN ACCESSIBLE PARKING STALL OR ACCESS AISLE, MUST HAVE A SLOPE LESS THAN OR EQUAL TO 2.08%.
- 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



**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: 04-12015\_PC  
 REVIEWED FOR  
 SS  FL  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

NOTE: IF DWG. IS NOT 24 x 36, IT IS NOT FULL SIZE

# LIONAKIS

2025 Nineteenth Street  
 Sacramento CA 95818  
 P 916.558.1900 F 916.558.1919  
 www.lionakis.com

CONSULTANT



PROJECT  
**LUTHER BURBANK HIGH SCHOOL  
 ATHLETIC FIELDS RENOVATION**

3500 FLORIN ROAD  
 SACRAMENTO, CA 95823

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

ISSUED		
MARK	DATE	DESCRIPTION
	12/01/2023	BID SET - NOT DSA APPROVED

MANAGEMENT	
LIONAKIS PROJECT NO.:	023041
DSA APPLICATION NO.:	02-121593
CLIENT PROJECT NO.:	
COPYRIGHT:	LIONAKIS 2022

### GENERAL DATA

SHEET  
S-2

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

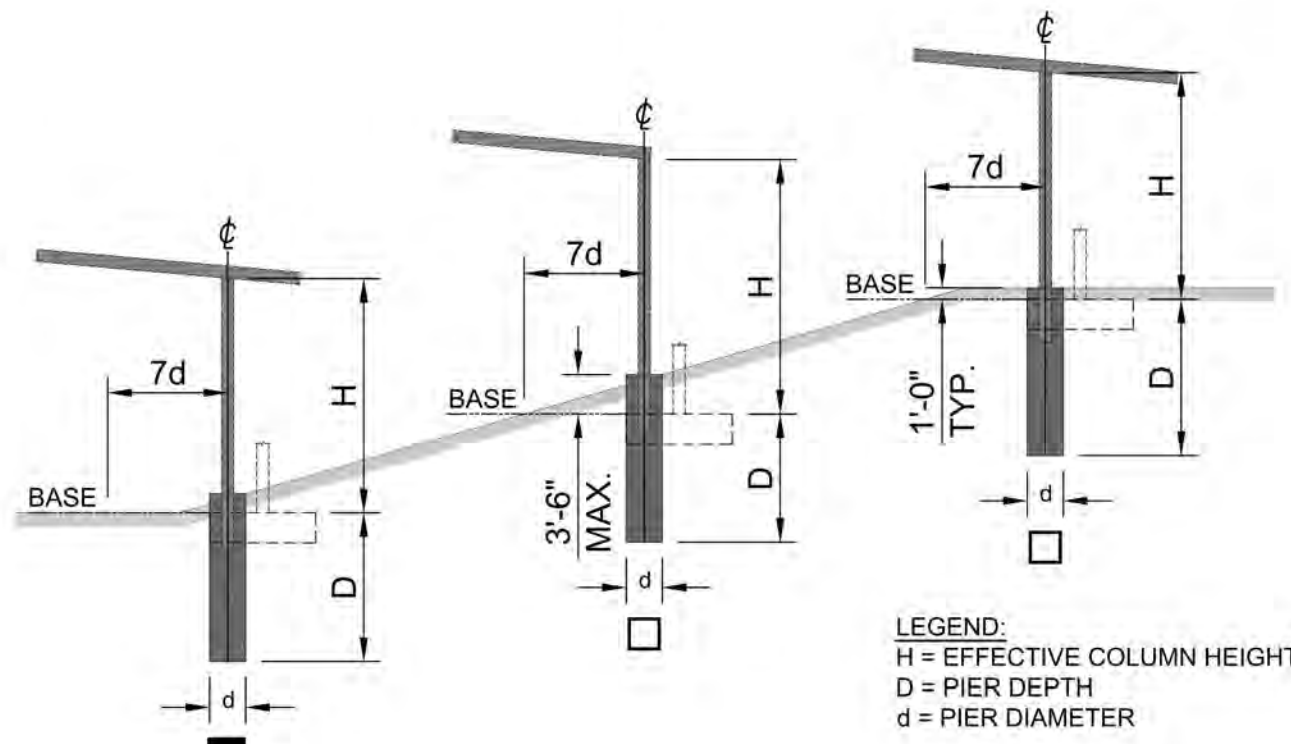
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11/09/2023 3:28:49 PM BM100\_020241\_SOLIDWORKS File:020241\_ARCHITECT\_EOC\_CENTRAL.rvt

### SOILS AND FOUNDATIONS

- A SITE SPECIFIC GEOTECHNICAL REPORT IS REQUIRED.
- 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 GEOTECHNICAL 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 4x 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 CASINGS THAT IS TWISTED INTO PLACE AND LEFT INSTALLED AFFECTS ANY ALLOWABLE VALUES.
- THE GEOTECHNICAL ENGINEER MAY SPECIFY DIFFERENT SOILS CLASSES TO BE USED FOR THE DIFFERENT STRUCTURE TYPES (V/C14 OR V/C20), 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.
- THE GEOTECHNICAL ENGINEER SHALL ADDRESS IN THE REPORT ANY CONCRETE DURABILITY REQUIREMENTS IN ACCORDANCE WITH ACI 318-19 CHAPTER 19.
- 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.
- A COPY OF THE GEOTECHNICAL REPORT SHALL BE PROVIDED AT THE TIME OF PLAN REVIEW.
- 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.
- 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.
- 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 (S7, S1, S2, S3, S4, S5, S6, S8) 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 $\mu$
□	ALL	1,500	100	2,000	0.25

#### NOTES:

- 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)
- DOUBLING THE PASSIVE PRESSURE DUE TO SOIL ARCHING EFFECTS IS NOT ALLOWED IN CONJUNCTION WITH DOUBLING BASED ON THE 1/2" DEFLECTION AT THE SURFACE.
- 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.
- END BEARING NOT USED FOR PIER FOUNDATION DESIGN.
- WHEN NO GEOTECHNICAL REPORT IS PROVIDED USE SOIL CLASS V.

### CONCRETE

- 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 LOWER STRENGTH (4,000 PSI MIN.). BATCH PLANT INSPECTION NOT REQUIRED.
- CONCRETE 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

- CONCRETE EXPOSED TO THAW AND FREEZE CYCLE SHALL BE AIR ENTRAINED PER ACI 318-19 TABLE 19.3.3.1.
- 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.)
- 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.)
- REINFORCEMENT BARS SHALL BE ASTM A615, GR60 TYPICAL, U.N.O.
- MINIMUM CONCRETE COVER SHALL BE 2" TO EARTH (DRILLED PIER FOUNDATIONS ONLY), 3" TO EARTH ALL OTHER CONCRETE, 2" TO EXPOSED SURFACES PER CBC TABLE 1809A.3.2
- ALL REINFORCING STEEL AND OTHER EMBEDDED ITEMS SHALL BE SECURELY POSITIONED PRIOR TO THE POURING OF CONCRETE.
- ALL CONCRETE WORK SHALL COMPLY WITH ACI 301 & 318 STANDARDS.
- AGGREGATE GRADATION AND QUALITY SHALL BE IN ACCORDANCE WITH ACI 302-R.
- COLD JOINTS SHALL HAVE A ROUGHENED SURFACE. BONDING AGENT SHALL COMPLY WITH ASTM C1099 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.
- 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.
- CONCRETE MAY BE PUMPED, POURED, TALLGATED, 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

- COLD FORMED STEEL SIZES ARE BASED ON BARE STEEL THICKNESS.
- STRUCTURAL AND COLD FORMED STEEL PURLIN, BEAM AND COLUMN MEMBERS SHALL HAVE MINIMUM STEEL YIELD STRENGTH INDICATED.
- 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.
- STEEL FABRICATION SHALL COMPLY WITH LATEST AISC SPECIFICATIONS.
- 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.
- HOT ROLLED WIDE FLANGE STEEL SECTIONS SHALL BE ASTM A992,  $F_y = 50$  KSI.
- 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).
- 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 65 PERCENT ALUMINUM-ZINC ALLOY COATED PER ASTM A792/A792M STANDARD IN ACCORDANCE TO AISI S240 TABLE A4-1, CP 90 COATING DESIGNATION.
- 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.
- ASTM A307 BOLTS MAY BE SUBSTITUTED WITH THE SAME NUMBER AND SIZE OF SAE J429 GRADE 2 BOLTS.
- BOLTS SHALL BE TIGHTENED TO SNUG-TIGHT CONDITION UNLESS NOTED OTHERWISE EXCEPT FOR A325-SC HIGH STRENGTH BOLTS.
- 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.
- BOLTS SHALL HAVE STANDARD WASHERS UNDER THE NUT & BOLT HEAD (F438 WASHERS NOT REQUIRED). STANDARD WASHERS DO NOT REQUIRE HARDNESS TEST.
- STANDARD ROUND BOLT HOLES MAY BE USED WHERE SHORT HORIZONTALLY SLOTTED BOLT HOLES ARE SHOWN.
- HOLES FOR 1/2" DIAMETER BOLTS SHALL BE STANDARD HOLES  $\frac{1}{16}$ " TYPICAL U.N.O.
- ALL BOLTS SHALL BE PROVIDED WITH METHOD TO PREVENT NUTS FROM LOSING. SIMPLE 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.
- STRUCTURAL STEEL PLATES SHALL BE ASTM A572 GRADE 50 UNLESS NOTED OTHERWISE.

### SPECIAL INSPECTION

- 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.
- DRILLED CONCRETE PIER FOUNDATIONS**
  - INSPECT DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH PIER.
  - VERIFY LOCATIONS OF PIERS.
- 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
- STRUCTURAL STEEL**
  - VERIFY THAT ALL MATERIALS ARE APPROPRIATELY MARKED AND THAT:
    - MILL CERTIFICATES INDICATE MATERIAL PROPERTIES THAT COMPLY WITH REQUIREMENTS.
    - 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  $> \frac{1}{4}$ " (BOTH SHOP AND FIELD WELDS).
- 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.
- REFER TO DSA APPROVED FORM 103 FOR ADDITIONAL REQUIREMENTS.

### GENERAL NOTES

- 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
  - ASCE 341-16
- THE PC STRUCTURES ARE NOT DESIGNED TO BE, NOR SHALL THEY BE, ENCLOSED.
- 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.
- OWNER TO SIGN AUTHORIZATION TO PROCEED PRIOR TO DRILLING. SEE EXAMPLE BELOW:



674 Rancheros Drive  
San Marcos, CA 92069  
PH: 760.794.4333  
FAX: 760.794.4340  
CA LIC#069990

Project Name: \_\_\_\_\_ Foreman: \_\_\_\_\_  
Site Name: \_\_\_\_\_ Contractor: \_\_\_\_\_

As an authorized representative of Contractor listed above, I, \_\_\_\_\_ agree to the following statements below:  
 \_\_\_\_\_ (initials) LAYOUT: The onsite layout for installation of structural steel for carports and canopies has been inspected and is approved as is.  
 \_\_\_\_\_ (initials) 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: \_\_\_\_\_ DATE: \_\_\_\_\_  
www.mbarc.com

**STEL ENGINEERING**  
25030 ACERO,  
MISSION VIEJO, CA 92691  
949.305.1150 | FAX 949.305.1420

**MBARC CONSTRUCTION INC.**  
11714 COOK,  
SAN MARCOS, CA 92069  
PH: 760.794.4333  
FAX: 760.794.4340  
CA LIC#069990

ENGINEER'S APPROVAL  
REGISTERED PROFESSIONAL ENGINEER  
KATELYN K. RESENER  
S 5885

**BID INFORMATION**  
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**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  FL  ACS  CG   
DATE: 11/09/2023

MARK	DATE	DESCRIPTION
	12/01/2023	BID SET - NOT DSA APPROVED

SITE SPECIFIC INFORMATION

MANAGEMENT

LIONAKIS PROJECT NO:	023041
DSA APPLICATION NO:	02-121593
CLIENT PROJECT NO:	
COPYRIGHT:	LIONAKIS 2022

REVISIONS

MARK	DATE	DESCRIPTION

4 STEL JOB # MC05-02-1  
DATE 11-01-23  
DRAWN BY NML  
CHECKED CDL

GENERAL NOTES

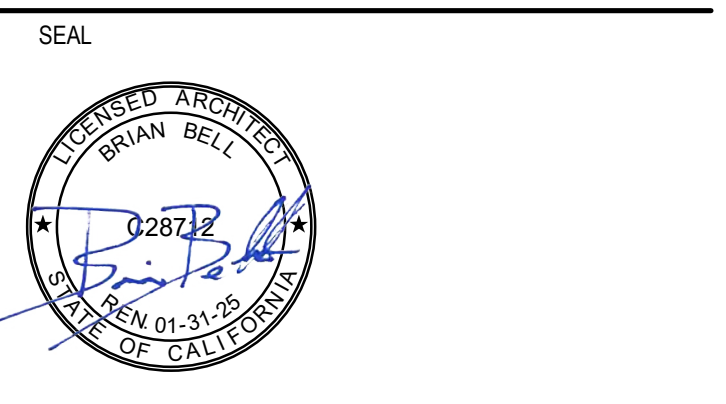
S-3

NOTE: IF DWG IS NOT 24"x36" IT IS NOT FULL SIZE

# LIONAKIS

2025 Nineteenth Street  
Sacramento CA 95818  
P 916.558.1900 F 916.558.1919  
www.lionakis.com

CONSULTANT



PROJECT  
LUTHER BURBANK HIGH SCHOOL  
ATHLETIC FIELDS RENOVATION

3500 FLORIN ROAD  
SACRAMENTO, CA 95823

CLIENT  
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

5735 47TH AVENUE, SACRAMENTO, CA 95824

MARK	DATE	DESCRIPTION
	12/01/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

LIONAKIS PROJECT NO:	023041
DSA APPLICATION NO:	02-121593
CLIENT PROJECT NO:	
COPYRIGHT:	LIONAKIS 2022

TITLE  
GENERAL NOTES

SHEET  
S-3

**DSA 103-22: LISTING OF STRUCTURAL TESTS & SPECIAL INSPECTIONS, 2022 CBC**

Application Number: 04-122015  
 School Name: M Bar C Inc Multipurpose Canopy 22 PC  
 School District: N/A  
 DSA File Number: 2023-11-08 15:50:31  
 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

Test or Special Inspection	Type	Performed By	Code References and Notes
<b>S1. GENERAL:</b>			
<input checked="" type="checkbox"/> a. Verify that: - Site has been prepared properly prior to construction 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.)

Test or Special Inspection	Type	Performed By	Code References and Notes
<b>C1. CAST-IN-PLACE CONCRETE</b>			
<input checked="" type="checkbox"/> a. Verify use of required design mix.	Periodic	SI	Table 1705A.3 Item 5, 1910A.1.
<input checked="" type="checkbox"/> 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.)
<input checked="" type="checkbox"/> 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.
<input checked="" type="checkbox"/> d. Test concrete (f'c).	Test	LOR	1905A.1.17; ACI 318-19 Section 26.12.
<input checked="" type="checkbox"/> 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.)

Test or Special Inspection	Type	Performed By	Code References and Notes
<b>S/A1. STRUCTURAL STEEL, COLD-FORMED STEEL AND ALUMINUM USED FOR STRUCTURAL PURPOSES</b>			
<input checked="" type="checkbox"/> 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 S400-20 Section A3 & A5; AISI S220-20 Sections A4 & A6. * By special inspector or qualified technician when performed off-site.
<input checked="" type="checkbox"/> b. Test unidentified materials	Test	LOR	2202A.1.
<input checked="" type="checkbox"/> c. Examine seam welds of HSS shapes	Periodic	SI	DSA IR 17-3.
<input checked="" type="checkbox"/> 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).

Test or Special Inspection	Type	Performed By	Code References and Notes
<b>S/A2. HIGH-STRENGTH BOLTS:</b>			
<input checked="" type="checkbox"/> 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.
<input checked="" type="checkbox"/> 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.
<input checked="" type="checkbox"/> 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 & N3.6; RCSC 2014 Sections 9.2 & 9.3; DSA IR 17-9. * "Continuous" or "Periodic" depends on the tightening method used.

Test or Special Inspection	Type	Performed By	Code References and Notes
<b>S/A3. WELDING:</b>			
<input checked="" type="checkbox"/> 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.
<input checked="" type="checkbox"/> b. Verify weld filler material manufacturer's certificate of compliance.	Periodic	SI	DSA IR 17-3.
<input checked="" type="checkbox"/> c. Verify WPS, welder qualifications and equipment.	Periodic	SI	DSA IR 17-3.
<b>S/A4. SHOP WELDING (IN ADDITION TO SECTION S/A3):</b>			
<input checked="" type="checkbox"/> 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 Sa.1-4; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.
<input checked="" type="checkbox"/> 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.
<b>S/A5. FIELD WELDING (IN ADDITION TO SECTION S/A3):</b>			
<input checked="" type="checkbox"/> 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 Sa.1-4; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.
<input checked="" type="checkbox"/> b. Inspect single-pass fillet welds ≤ 5/16".	Periodic	SI	Table 1705A.2.1 Item 5a.5; AISC 360-16 (and AISC 341-16 as applicable); DSA IR 17-3.
<b>S/A6. NONDESTRUCTIVE TESTING:</b>			
<input checked="" type="checkbox"/> 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.
<input checked="" type="checkbox"/> 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.

- Soils Testing and Inspection: Geotechnical Verified Report Form DSA 293
- Structural Testing and Inspection: Laboratory Verified Report Form DSA 291
- Concrete Batch Plant Inspection: Laboratory Verified Report Form DSA 291
- Shop Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292
- Field Welding Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292
- High-Strength Bolt Installation Inspection: Laboratory Verified Report Form DSA 291, or, for independently contracting SI, Special Inspection Verified Report Form DSA 292

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.

1. SAMPLE DSA 103 - STRUCTURES WITH PIER OR SPREAD FOUNDATIONS



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 APP: 04-122015 PC  
 REVIEWED FOR SS  FLS  ACS  CG   
 DATE: 11/09/2023

**SITE SPECIFIC INFORMATION**

4 STEL JOB # MC05-02-1

DATE 11-01-23

DRAWN BY NML

CHECKED CDL

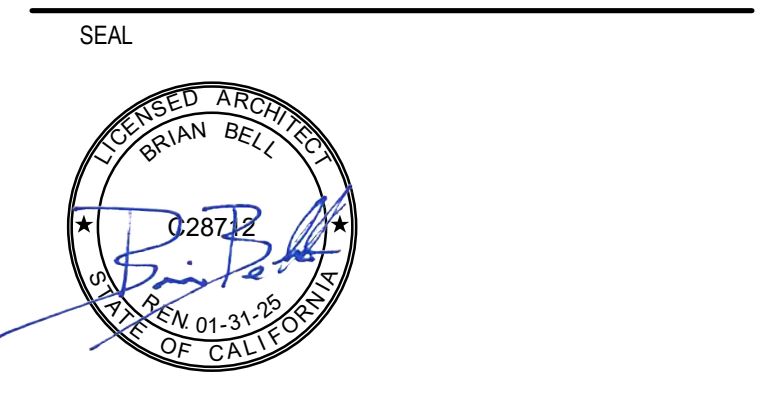
EXAMPLE DSA-103 FORMS

S-4



2025 Nineteenth Street  
 Sacramento CA 95818  
 P 916.558.1900 F 916.558.1919  
 www.lionakis.com

CONSULTANT



PROJECT  
**LUTHER BURBANK HIGH SCHOOL ATHLETIC FIELDS RENOVATION**

3500 FLORIN ROAD  
 SACRAMENTO, CA 95823

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

MARK	DATE	DESCRIPTION
	12/01/2023	BID SET - NOT DSA APPROVED

MARK	DATE	DESCRIPTION

MANAGEMENT  
 LIONAKIS PROJECT NO: 023041  
 DSA APPLICATION NO: 02-121593  
 CLIENT PROJECT NO:  
 COPYRIGHT: LIONAKIS 2022

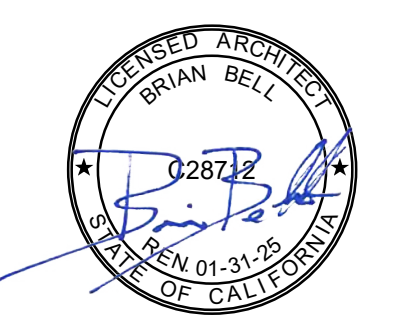
TITLE  
**EXAMPLE DSA-103 FORMS**

SHEET  
**S-4**

IF THIS SHEET IS NOT 30" X 42" IT IS A REDUCED PRINT - SCALE ACCORDINGLY

BM100\_023041\_SCD303 Burbank HS Plans 02/04/ ARCHISTE EOL CENTRAL.V1

11/09/2023 3:29:30 PM



MARK	DATE	DESCRIPTION
	12/01/2023	BID SET - NOT DSA APPROVED

MARK	DATE	DESCRIPTION

MANAGEMENT  
LIONAKIS PROJECT NO: 023041  
DSA APPLICATION NO: 02-121593  
CLIENT PROJECT NO:  
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**STEL ENGINEERING**  
28030 ACERO,  
MISSION VIEJO, CA 92691  
949.305.1150 | FAX 949.305.1420

**MBARC CONSTRUCTION INC.**  
1170 LA CORRA,  
SANTA MONICA, CA 90405  
PHONE: (760) 746-4111  
FAX: (760) 746-4047  
WWW.MBARCCONSTRUCTION.COM  
LIC # 84940  
S 5885

ENGINEER'S APPROVAL

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SITE SPECIFIC INFORMATION

MARK	DATE	DESCRIPTION

4 STEL JOB # MC05-02-1  
DATE 11-01-23  
DRAWN BY NML  
CHECKED CDL

**SECTION PROPERTIES & REBAR DETAILS**

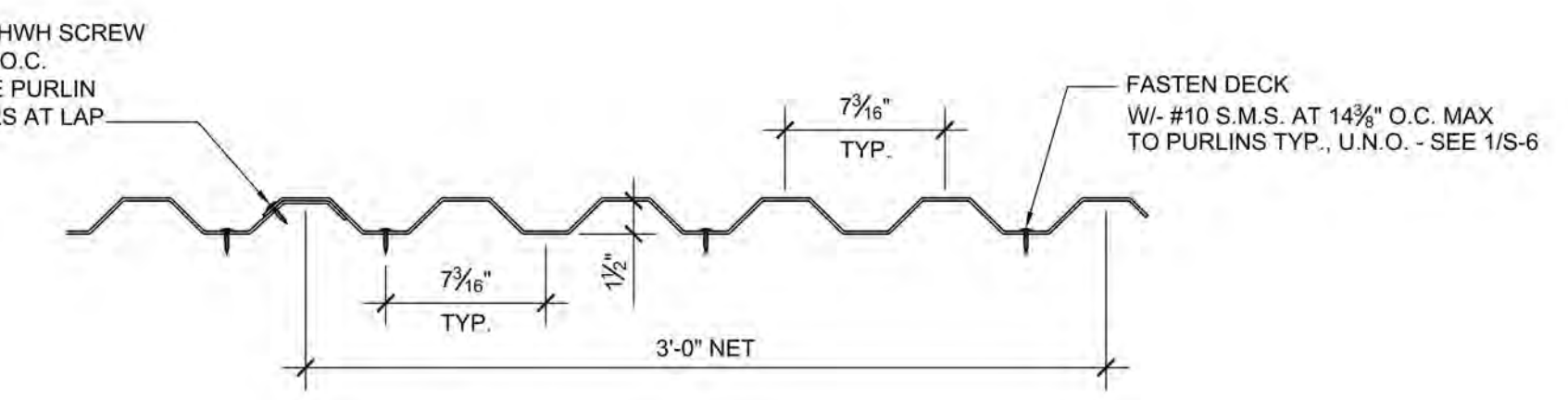
S-5

NOTE: IF DIMS. IS NOT IN 1/8", IT IS NOT FULL SIZE.

TITLE  
**SECTION PROPERTIES & REBAR DETAILS**

ROOF DECK SPECIFICATIONS						
SECTION PROPERTIES		TOP IN COMPRESSION		BOTTOM IN COMPRESSION		
GA	F <sub>y</sub> (ksi)	WEIGHT (psf)	I <sub>x</sub> (in <sup>4</sup> /ft.)	S <sub>x</sub> (in <sup>3</sup> /ft.)	I <sub>y</sub> (in <sup>4</sup> /ft.)	S <sub>y</sub> (in <sup>3</sup> /ft.)
26	80	0.93	0.0613	0.0676	0.0577	0.0575

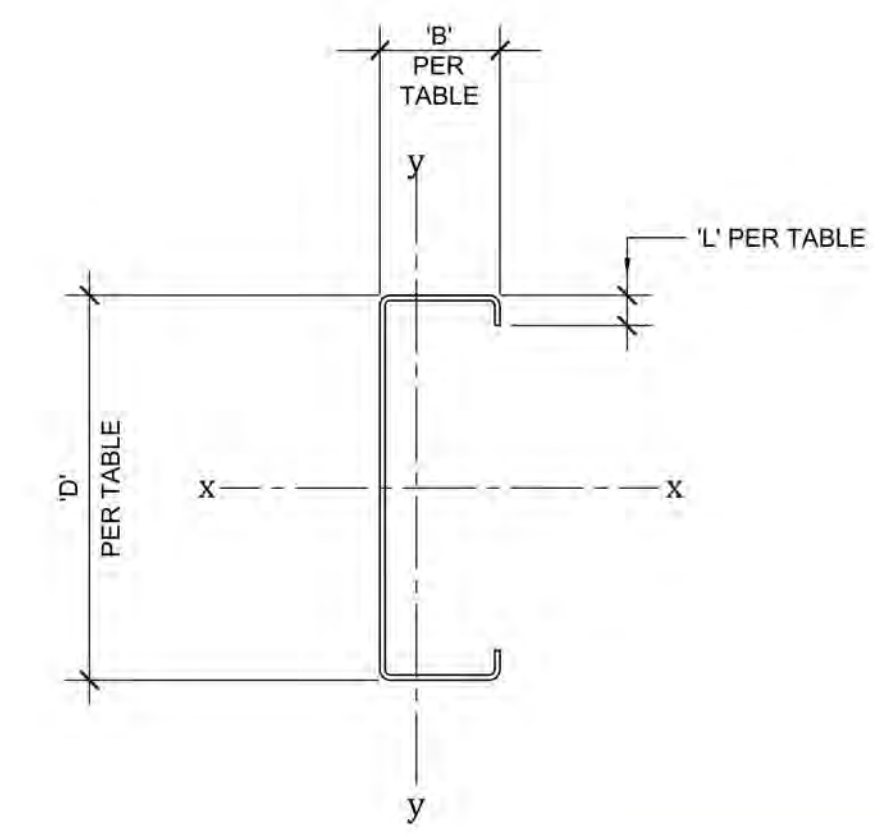
- NOTES:  
1. MATERIAL AND SECTION PROPERTIES LISTED ABOVE ARE MINIMUM REQUIRED VALUES FOR METAL DECK BASED ON MCELROY MEGARIB 26 GA.  
2. METAL ROOF DECK SHALL BE CLASS A PER CBC CHAPTERS 7A AND 15.  
3. ACTUAL MANUFACTURER'S PROPERTIES MUST MEET OR EXCEED MCELROY STANDARD PROPERTIES.



**1 DECK DETAIL**  
N.T.S.

SECTION NAME							AXIS X-X			AXIS Y-Y		
GA	D (in)	B (in)	L (in)	WT (lb/ft)	A (in <sup>2</sup> )	I <sub>x</sub> (in <sup>4</sup> )	S <sub>x</sub> (in <sup>3</sup> )	r <sub>x</sub> (in)	I <sub>y</sub> (in <sup>4</sup> )	S <sub>y</sub> (in <sup>3</sup> )	r <sub>y</sub> (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

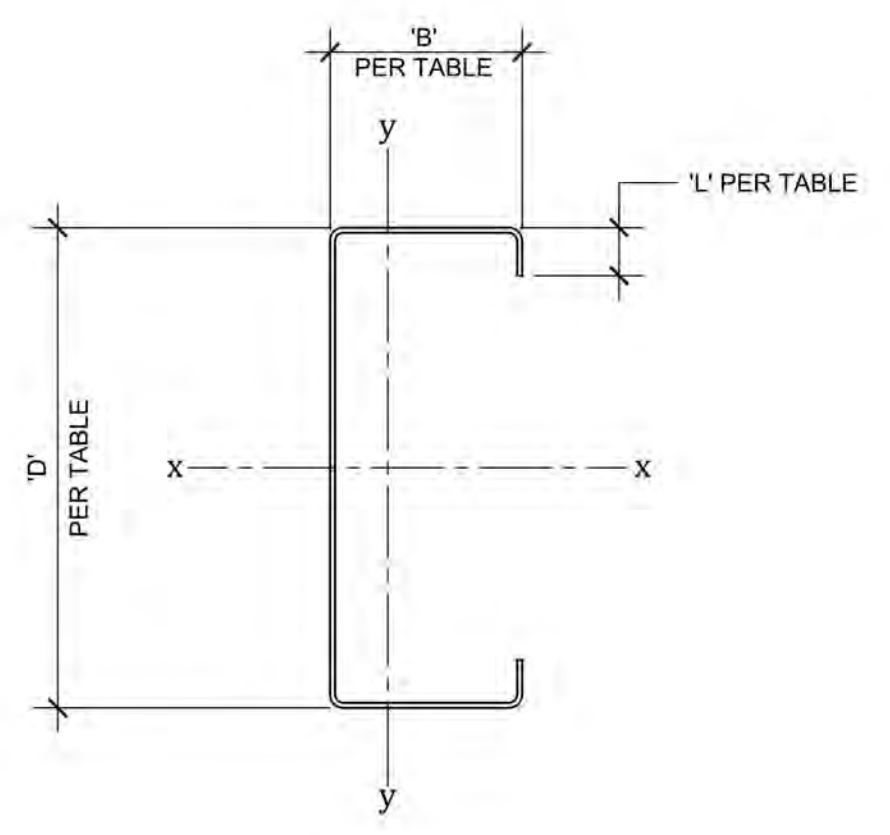
- NOTES:  
1. COLD FORMED STEEL (CFS) PURLINS AND BEAMS MATERIAL SHALL CONFORM TO ASTM A653 SS GRADE 55 (F<sub>y</sub> = 55 KSI, F<sub>t</sub> = 70 KSI) OR ASTM A1011 SS GRADE 55 (F<sub>y</sub> = 55 KSI, F<sub>t</sub> = 70 KSI).  
2. COLD FORMED STEEL (CFS) DESIGNED PER 2016 AISI SPECIFICATIONS AND COLD-FORMED STEEL DESIGN MANUAL.  
3. CFS SECTION PROPERTIES LISTED ABOVE ARE MINIMUM SECTION PROPERTIES REQUIRED PER THE LATEST STEEL FRAMING INDUSTRY ASSOCIATION (SFIG) PRODUCT TECHNICAL GUIDE. ACTUAL MANUFACTURER'S PROPERTIES MUST MEET OR EXCEED SFIG PROPERTIES.



**2 PURLIN BLOCKING**  
N.T.S.

SECTION NAME	GA	D (in)	B (in)	L (in)	WT (lb/ft)	A (in <sup>2</sup> )	AXIS X-X			AXIS Y-Y		
							I <sub>x</sub> (in <sup>4</sup> )	S <sub>x</sub> (in <sup>3</sup> )	r <sub>x</sub> (in)	I <sub>y</sub> (in <sup>4</sup> )	S <sub>y</sub> (in <sup>3</sup> )	r <sub>y</sub> (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

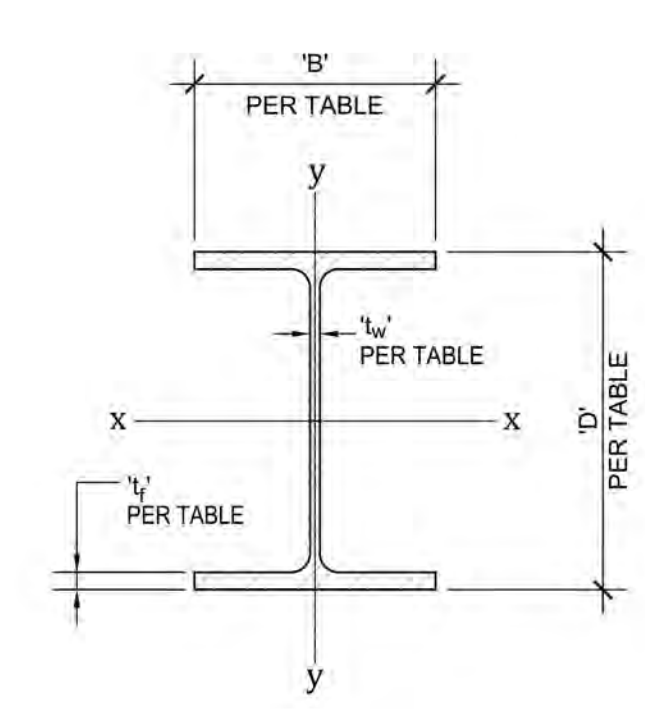
- NOTES:  
1. COLD FORMED STEEL (CFS) PURLINS AND BEAMS MATERIAL SHALL CONFORM TO ASTM A653 SS GRADE 55 (F<sub>y</sub> = 55 KSI, F<sub>t</sub> = 70 KSI) OR ASTM A1011 SS GRADE 55 (F<sub>y</sub> = 55 KSI, F<sub>t</sub> = 70 KSI).  
2. COLD FORMED STEEL (CFS) DESIGNED PER 2016 AISI SPECIFICATIONS AND AISI COLD-FORMED STEEL DESIGN MANUAL.  
3. CFS SECTION PROPERTIES LISTED ABOVE ARE MINIMUM SECTION PROPERTIES REQUIRED PER THE LATEST STEEL FRAMING INDUSTRY ASSOCIATION (SFIG) PRODUCT TECHNICAL GUIDE. ACTUAL MANUFACTURER'S PROPERTIES MUST MEET OR EXCEED SFIG PROPERTIES.



**4 PURLINS**  
N.T.S.

SECTION NAME							AXIS X-X			AXIS Y-Y		
D (in)	B (in)	t <sub>w</sub> (in)	t <sub>f</sub> (in)	WT (lb/ft)	A (in <sup>2</sup> )	I <sub>x</sub> (in <sup>4</sup> )	S <sub>x</sub> (in <sup>3</sup> )	r <sub>x</sub> (in)	I <sub>y</sub> (in <sup>4</sup> )	S <sub>y</sub> (in <sup>3</sup> )	r <sub>y</sub> (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

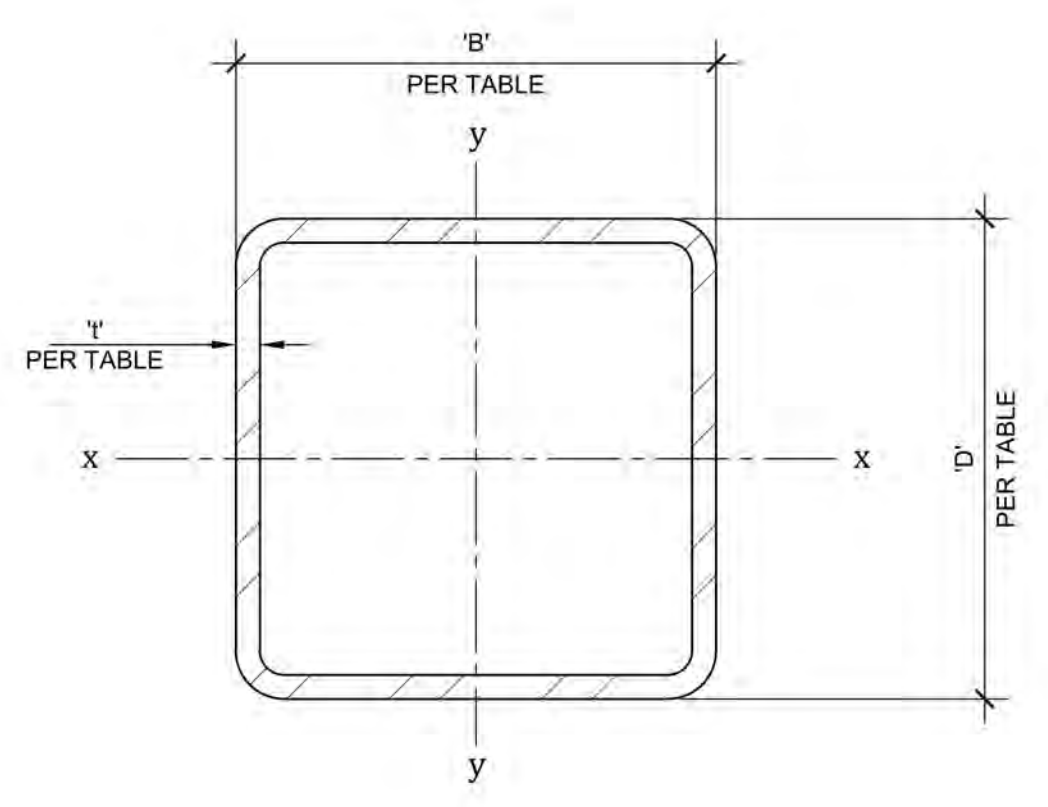
- NOTES:  
1. WF BEAMS SHALL CONFORM TO ASTM A992, F<sub>y</sub> = 50 ksi.



**5 BEAMS**  
N.T.S.

SECTION NAME	D (in)	B (in)	t (in)	WT (lb/ft)	A (in <sup>2</sup> )	AXIS X-X			AXIS Y-Y		
						I <sub>x</sub> (in <sup>4</sup> )	S <sub>x</sub> (in <sup>3</sup> )	r <sub>x</sub> (in)	I <sub>y</sub> (in <sup>4</sup> )	S <sub>y</sub> (in <sup>3</sup> )	r <sub>y</sub> (in)
HSS 10 x 10 x 1/4	10	10	0.25	32.63	9.59	151	30.2	3.97	151	30.2	3.97
HSS 10 x 10 x 3/16	10	10	0.3125	40.35	11.90	184	36.8	3.93	184	36.8	3.93
HSS 12 x 12 x 3/8	12	12	0.375	58.10	17.10	380	63.3	4.71	380	63.3	4.71
HSS 12 x 12 x 1/2	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<sub>y</sub> = 50 ksi.



**6 COLUMNS**  
N.T.S.

**3 TYPICAL REINFORCEMENT BAR BENDS AND LAPS**  
N.T.S.

BAR SIZE	D <sub>1</sub>	D <sub>2</sub>
#3	1 1/2"	2 1/2"
#4	2"	3"
#5	2 1/2"	3 1/2"
#6, #7, #8	3"	4"

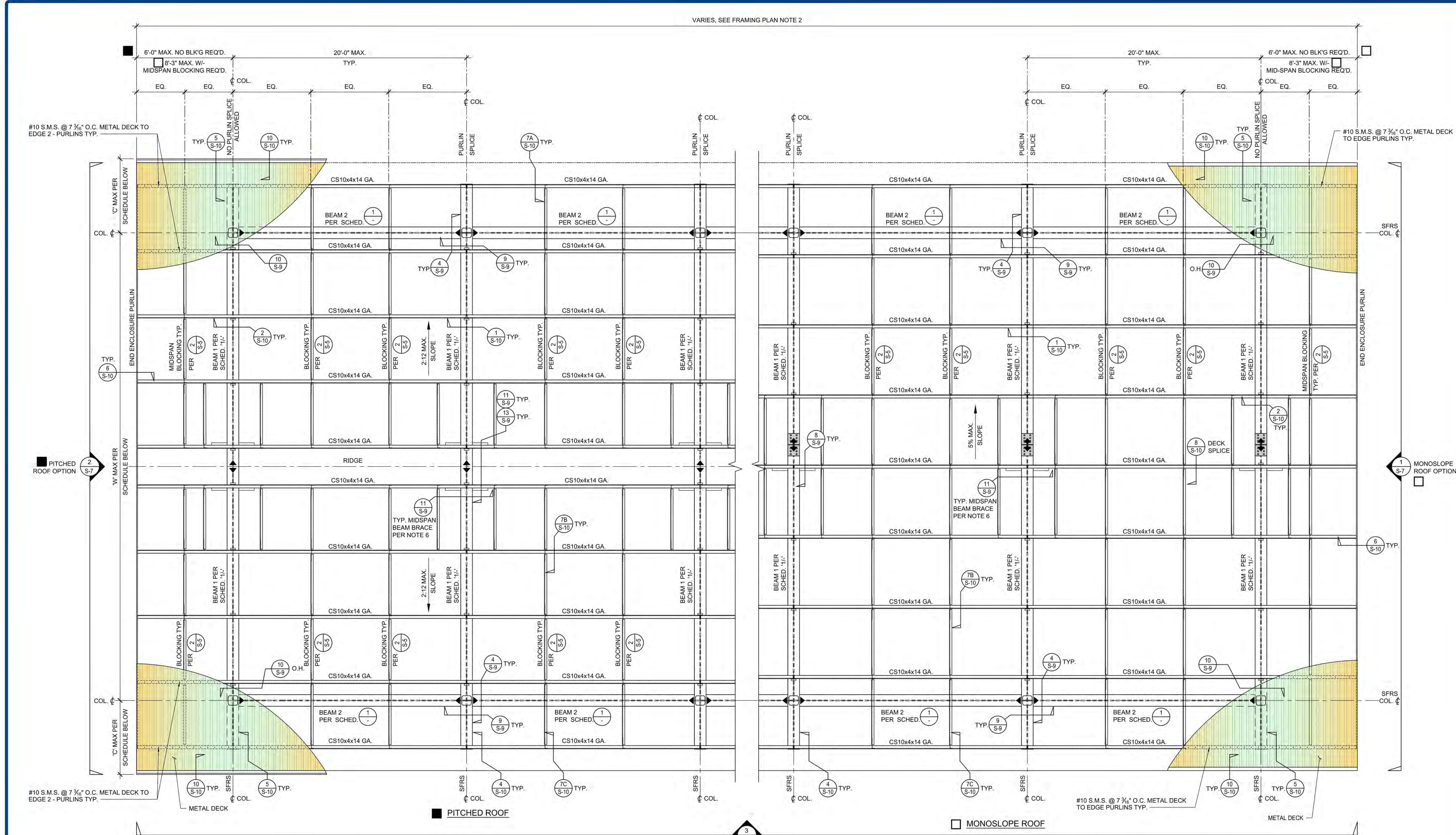
BAR SIZE	MAIN REINFT.	STIRRUP & TIE HOOKS
#3	6"	4"
#4	8"	4 1/2"
#5	10"	5"
#6	12"	6"
#7	14"	7"
#8	16"	8"

NOMINAL BAR SIZE	CONCRETE STRENGTH	F <sub>c</sub> = 3,000 PSI		
		TOP BARS	OTHER BARS	L <sub>db</sub>
#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"

NOMINAL BAR SIZE	CONCRETE STRENGTH	
	F <sub>c</sub> = 3,000 PSI	
#3	TOP BARS	OTHER BARS
#4	2'-4"	1'-10"
#5	3'-2"	2'-5"
#6	3'-11"	3'-0"
#7	4'-8"	3'-7"
#8	6'-9"	5'-3"

NOTES:  
1. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW.  
2. 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.

**3 TYPICAL REINFORCEMENT BAR BENDS AND LAPS**  
N.T.S.



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 3/8
M2	40'-0"	6'-0"	23'-0"	W12 x 40	W12 x 40	HSS 10 x 10 x 3/8
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 3/8

FRAMING PLAN NOTES:

- REFER TO SHEET 'S-2' FOR CANOPY CONSTRUCTION OPTIONS.
- MAXIMUM CANOPY LENGTH SHALL BE SITE SPECIFIC DETERMINED TO CONFORM WITH CONSTRUCTION TYPE NOTES ON SHEET 'S-2'.
- REFER TO SHEET S-5 FOR COLUMN, BEAM, PURLIN, AND BLOCKING SECTION PROPERTIES.
- METAL ROOF DECK SHALL BE CLASS A PER CBC CHAPTERS 7A AND 15.
- REFER TO DETAIL '12/S-10' FOR ALLOWABLE PURLIN PENETRATIONS.
- BEAM MIDSPAN BRACE REQUIRED PER DETAIL '8/S-9', '11/S-9' AND '13/S-9'.
- DECK MUST SPAN CONTINUOUSLY OVER FOUR OR MORE PURLINS WITH OR WITHOUT A CANTILEVER.
- FASTEN DECK w/ #10 S.M.S. @ 14 3/4" O.C. TO PURLINS TYP. U.N.O.
- PURLIN ATTACHMENT PER DETAILS 1/S-10, 2/S-10.

**STEEL ENGINEERING**  
28030 ACERO  
MISSION VIEJO, CA 92691  
949.305.1150 | FAX 949.305.1420

**MBARC CONSTRUCTION INC.**  
11770 L COCA  
MIDLAND VALLEY, TX 79701  
PHONE: (767) 746-6333  
FAX: (767) 746-6333  
WWW.MBARC.COM

ENGINEER'S APPROVAL  
REGISTERED PROFESSIONAL ENGINEER  
S 5885  
LUTHER B. BELL

**BID INFORMATION**  
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DIV. OF THE STATE ARCHITECT  
APP: 04-122015-PC  
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SS  FLS  ACS  CG   
DATE: 11/09/2023

SITE SPECIFIC INFORMATION

REVISIONS

MARK	DATE	DESCRIPTION

4 STEEL JOB # MC05-02-1

DATE 11-01-23

DRAWN BY NML

CHECKED COL

FRAMING PLAN

S-6

NOTE: IF DWG IS NOT 24 x 36, IT IS NOT FULL SIZE

SEAL  
REGISTERED ARCHITECT  
S 2872  
LUTHER B. BELL  
STATE OF CALIFORNIA

PROJECT  
LUTHER BURBANK HIGH SCHOOL  
ATHLETIC FIELDS RENOVATION

3500 FLORIN ROAD  
SACRAMENTO, CA 95823

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

ISSUED

MARK	DATE	DESCRIPTION
	12/01/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

LIONAKIS PROJECT NO:	023041
DSA APPLICATION NO:	02-121593
CLIENT PROJECT NO:	
COPYRIGHT:	LIONAKIS 2022

TITLE  
FRAMING PLAN

SHEET  
S-6



0' 14" 12"

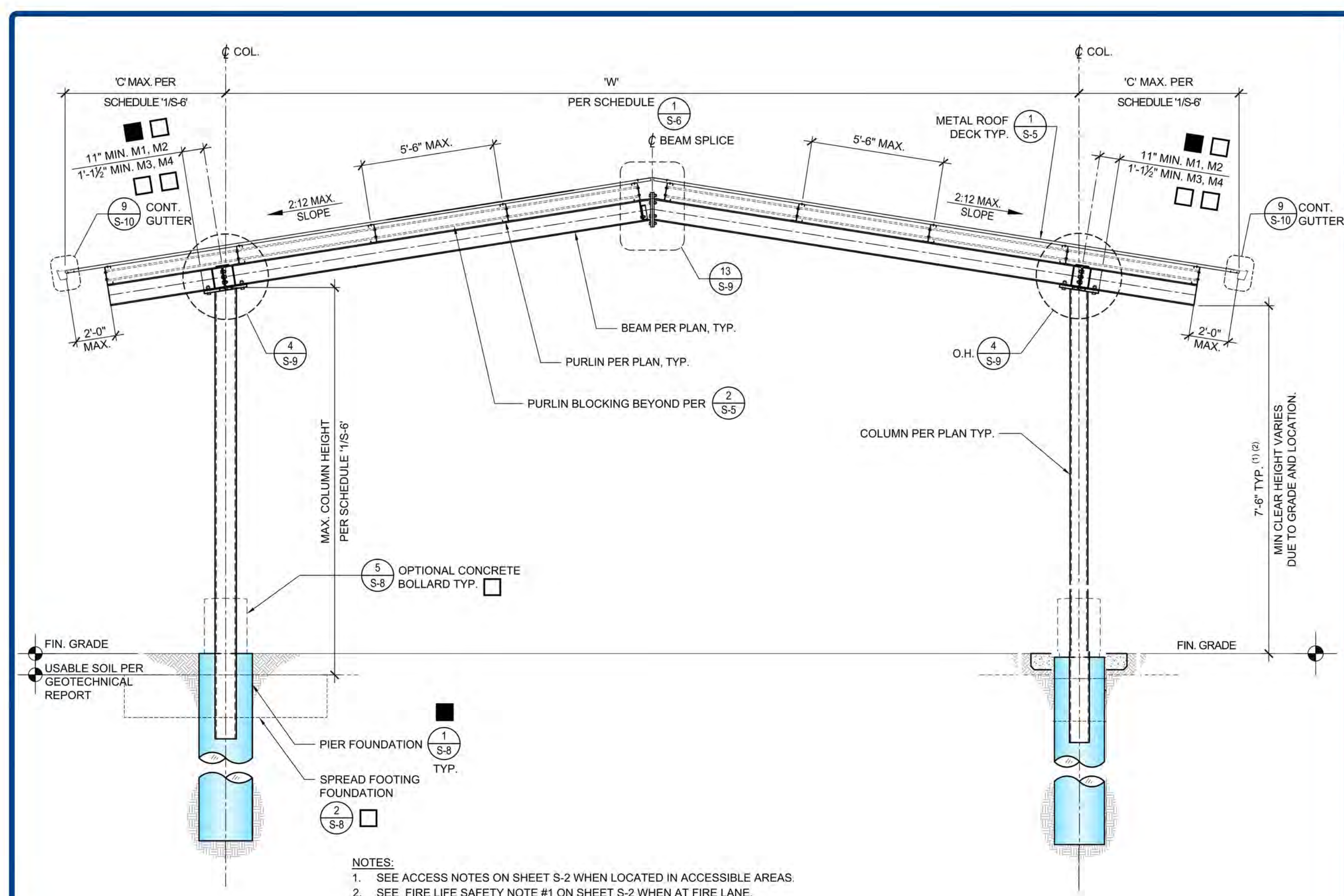
IF THIS SHEET IS NOT 30" X 42" IT IS A REDUCED PRINT - SCALE ACCORDINGLY

C

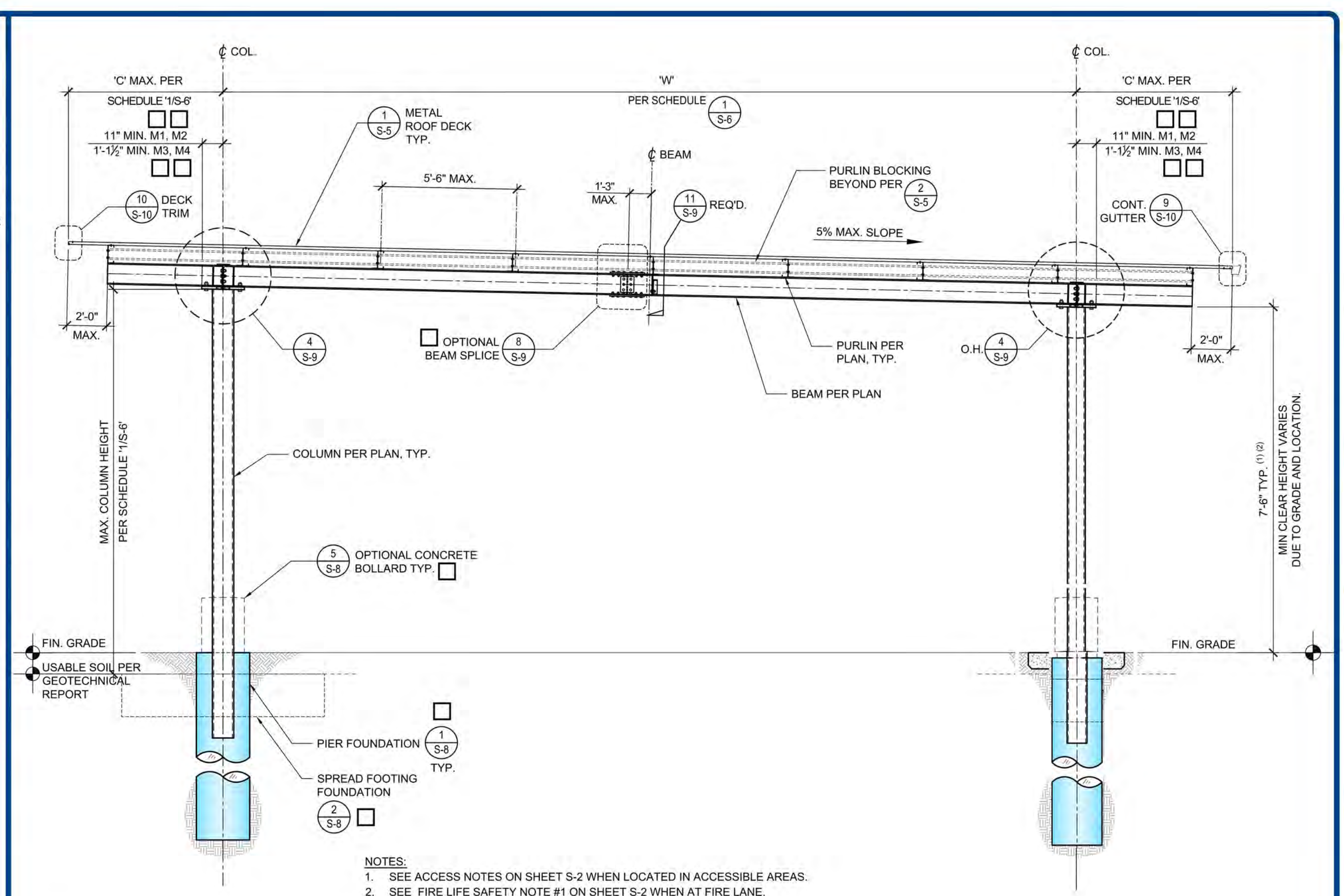
B

BM 190.023041 - SQUARED BURBANK HS FRAMING ELEVATIONS ARCHITECTURE, INC. CENTRAL.V1

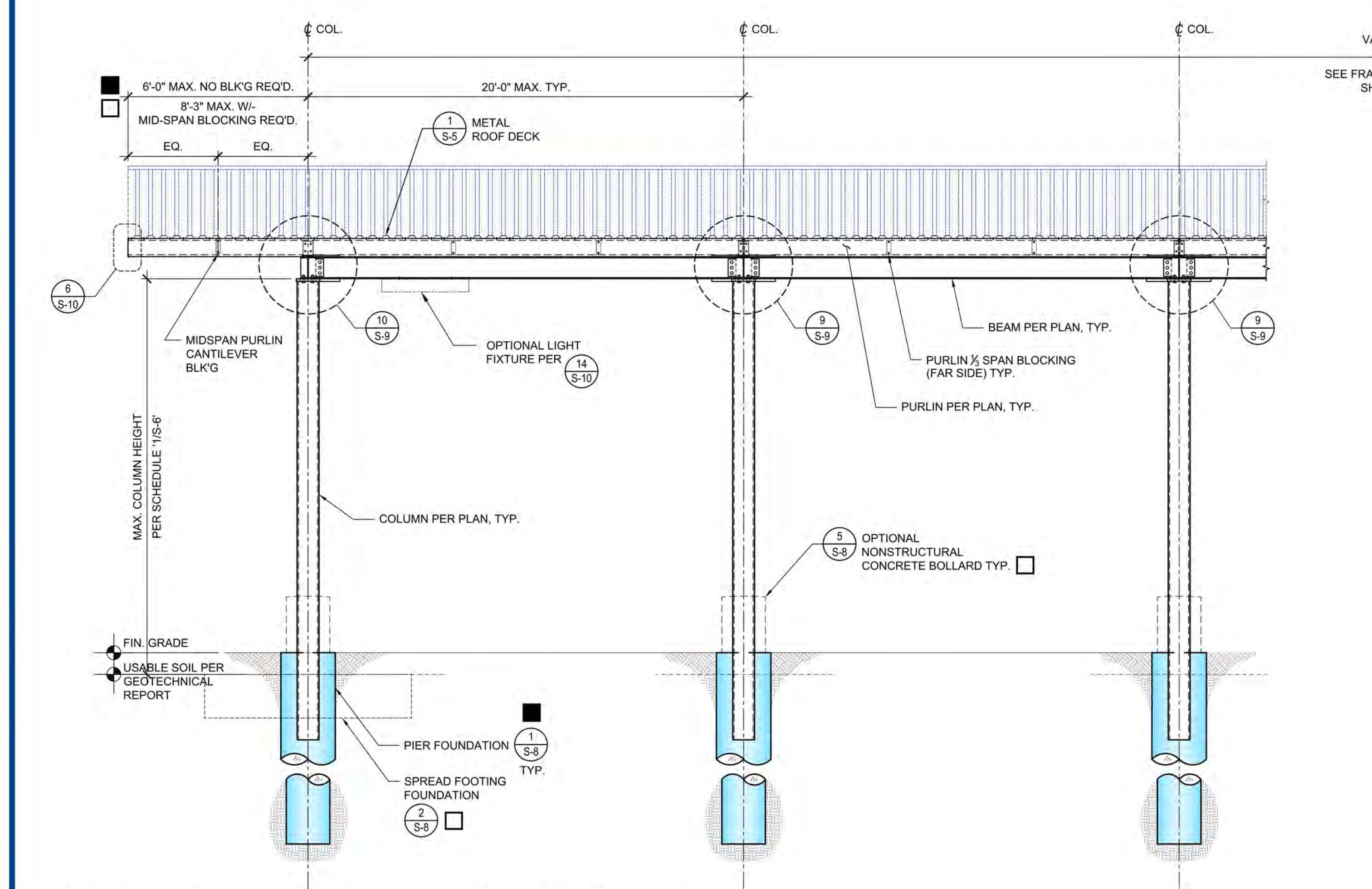
11/09/2023 3:29:54 PM



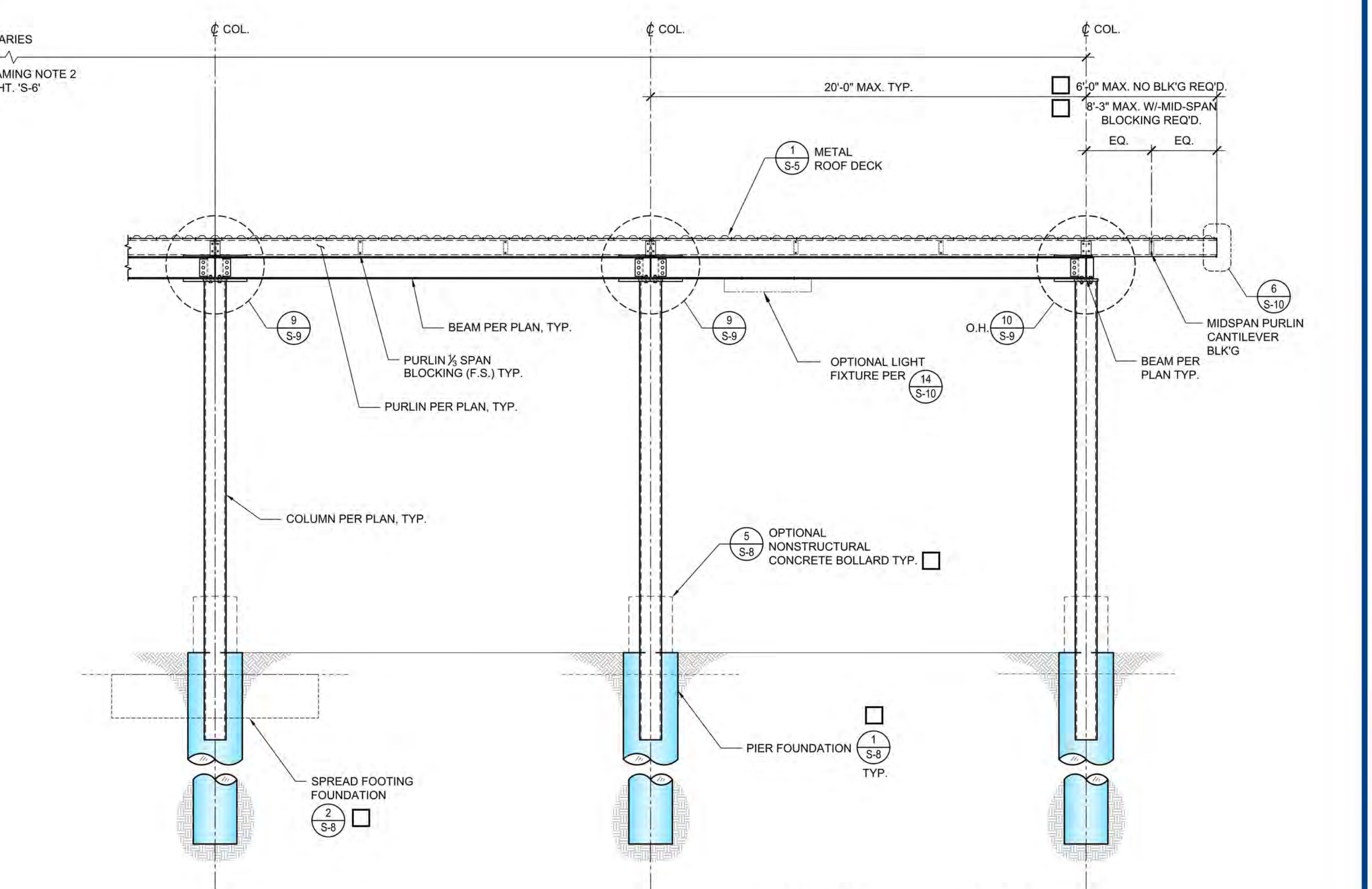
2 END ELEVATION - PITCHED ROOF OPTION ■  
1/4"=1'-0"



1 END ELEVATION - MONOSLOPE ROOF OPTION □  
1/4"=1'-0"



3 TYPICAL SIDE ELEVATION ■  
1/4"=1'-0"



MONOSLOPE ROOF OPTION □  
1/4"=1'-0"

**4 STEEL ENGINEERING**  
26030 ACERO, MISSION VIEJO, CA 92691  
949.305.1150 / FAX 949.305.1420

**MBARC CONSTRUCTION INC.**  
1775 LA COSTA, SAN MARINO, CA 91108  
PHONE: (714) 764-8331 FAX: (714) 764-8447  
WWW.MBARCCONSTRUCTION.COM

ENGINEER'S APPROVAL  
*Signature*  
S 5885

**BID INFORMATION**  
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APP: 04-122015\_PC  
REVIEWED FOR SS □ FL □ ACS □ CG □  
DATE: 11/09/2023

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REVISIONS

MARK	DATE	DESCRIPTION

4 STEEL JOB # MC05-02-1  
DATE 11-01-23  
DRAWN BY NML  
CHECKED CDL

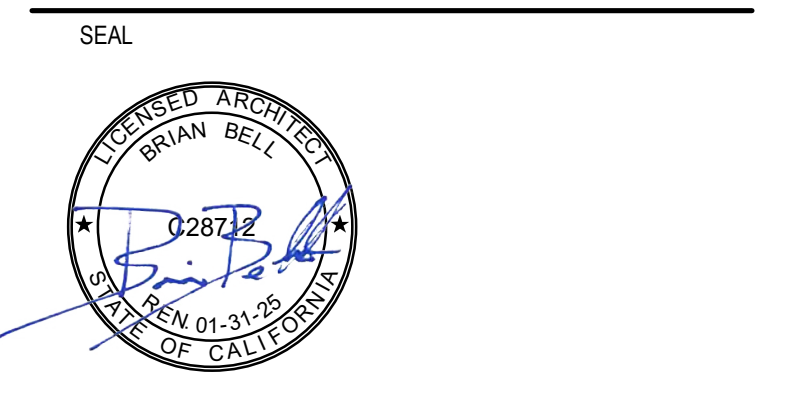
FRAMING ELEVATIONS  
**S-7**

NOTE: IF DIMS IS NOT 24 X 36, IT IS NOT FULL SIZE.

**LIONAKIS**

2025 Nineteenth Street  
Sacramento CA 95818  
P 916.558.1900 F 916.558.1919  
www.lionakis.com

CONSULTANT



PROJECT  
**LUTHER BURBANK HIGH SCHOOL  
ATHLETIC FIELDS RENOVATION**

3500 FLORIN ROAD  
SACRAMENTO, CA 95823

CLIENT  
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

5735 47TH AVENUE, SACRAMENTO, CA 95824

ISSUED

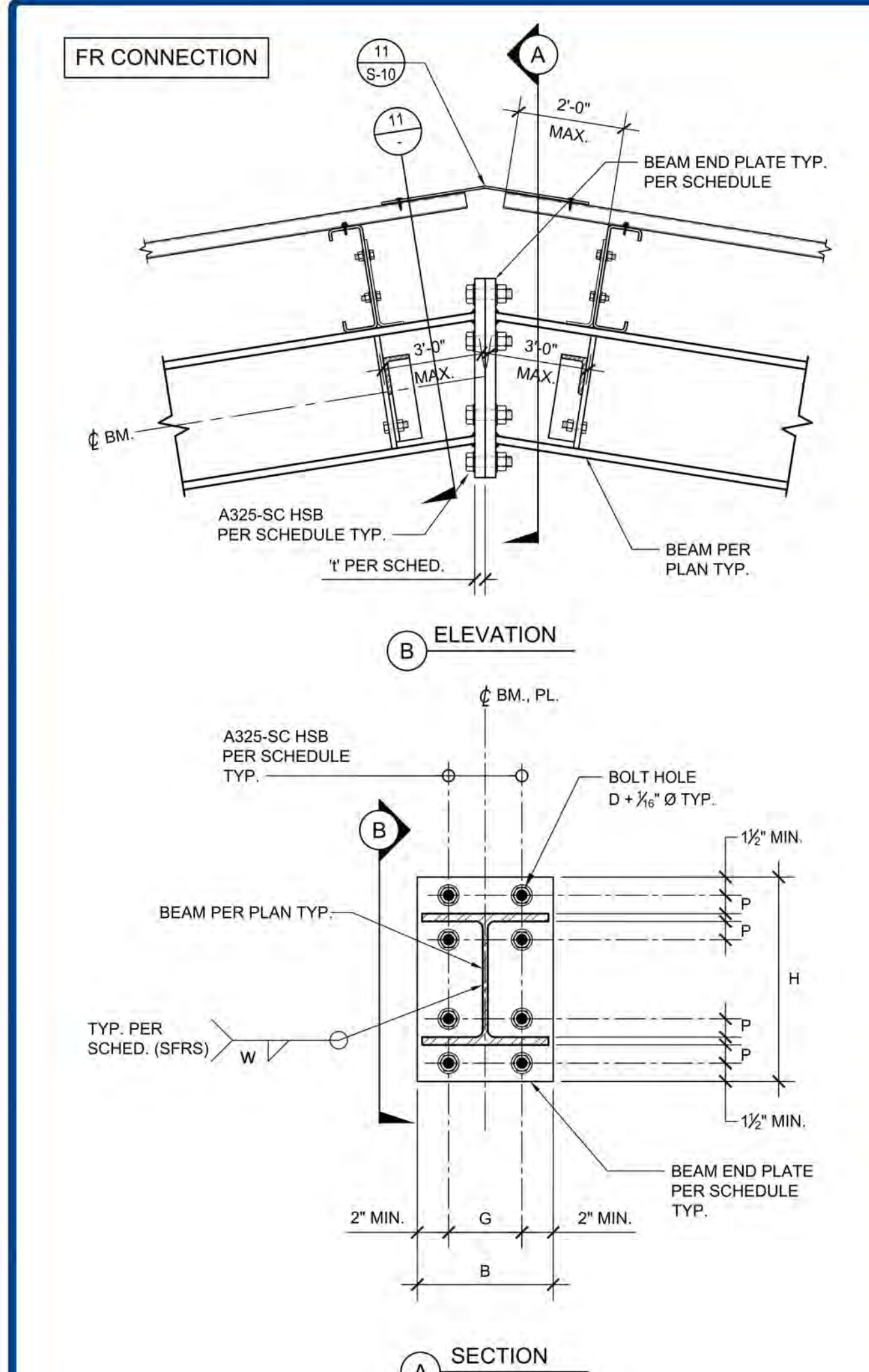
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	12/01/2023	BID SET - NOT DSA APPROVED

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DSA APPLICATION NO. 02-121593  
CLIENT PROJECT NO.  
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TITLE  
**FRAMING ELEVATIONS**

SHEET  
**S-7**

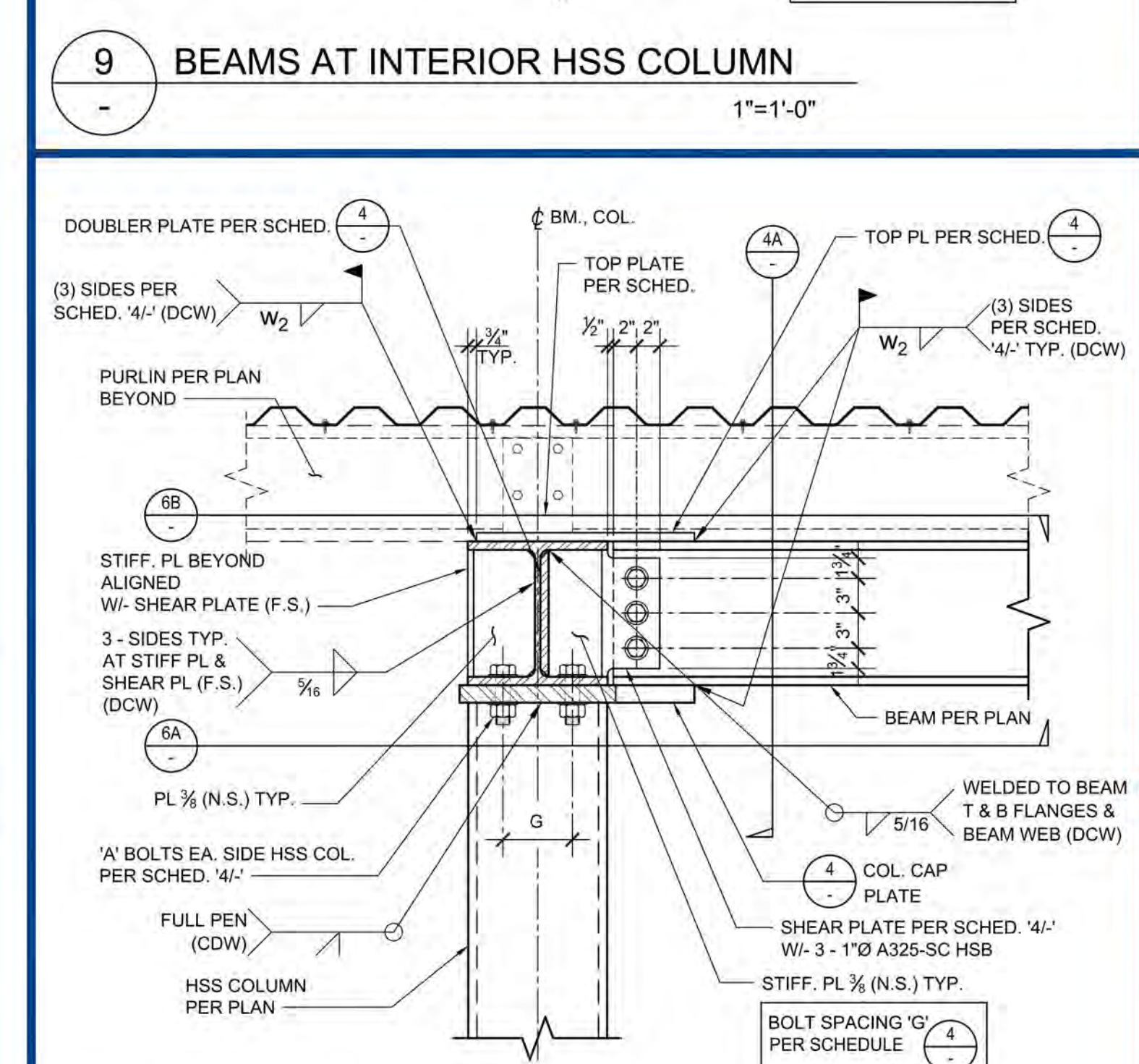
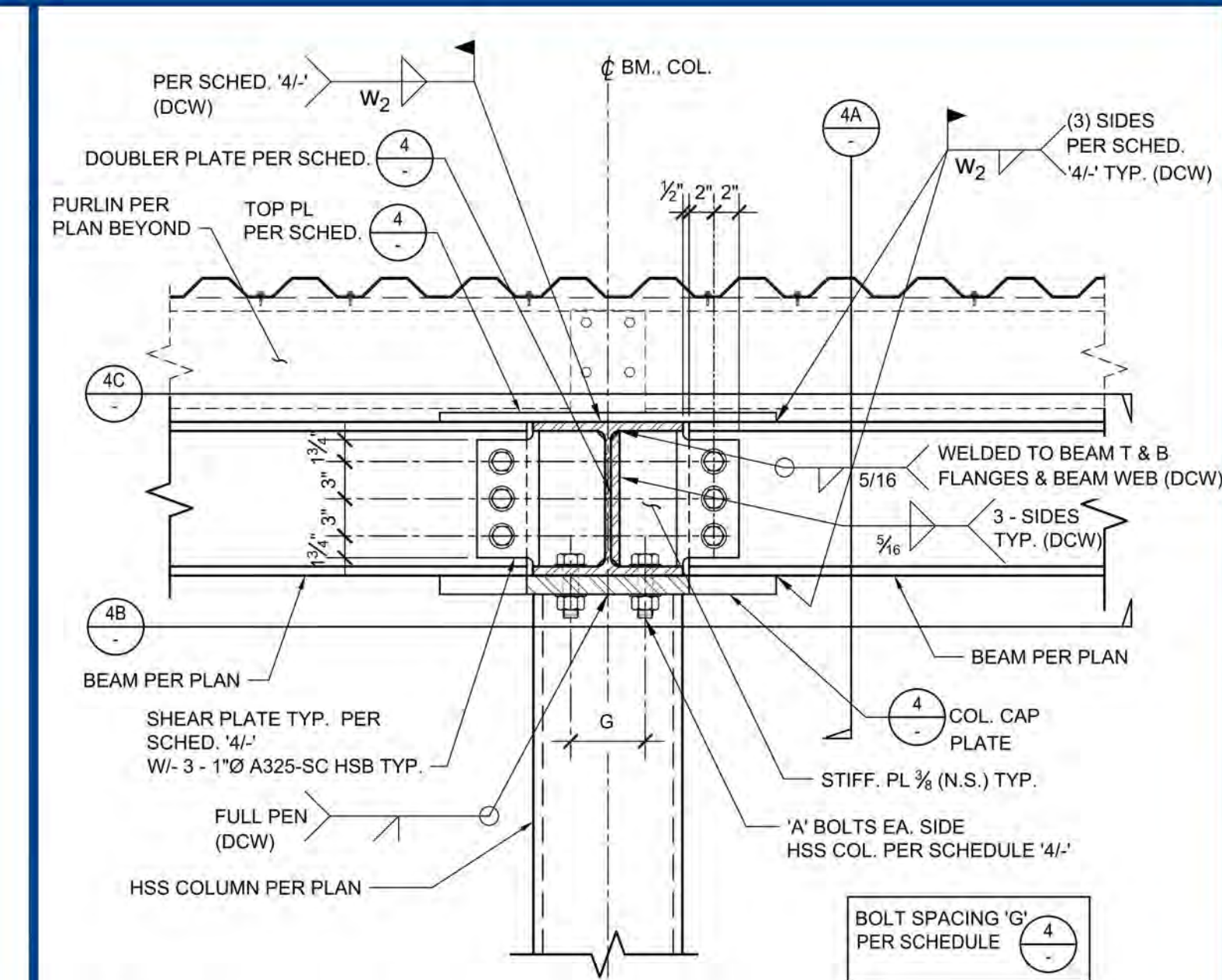




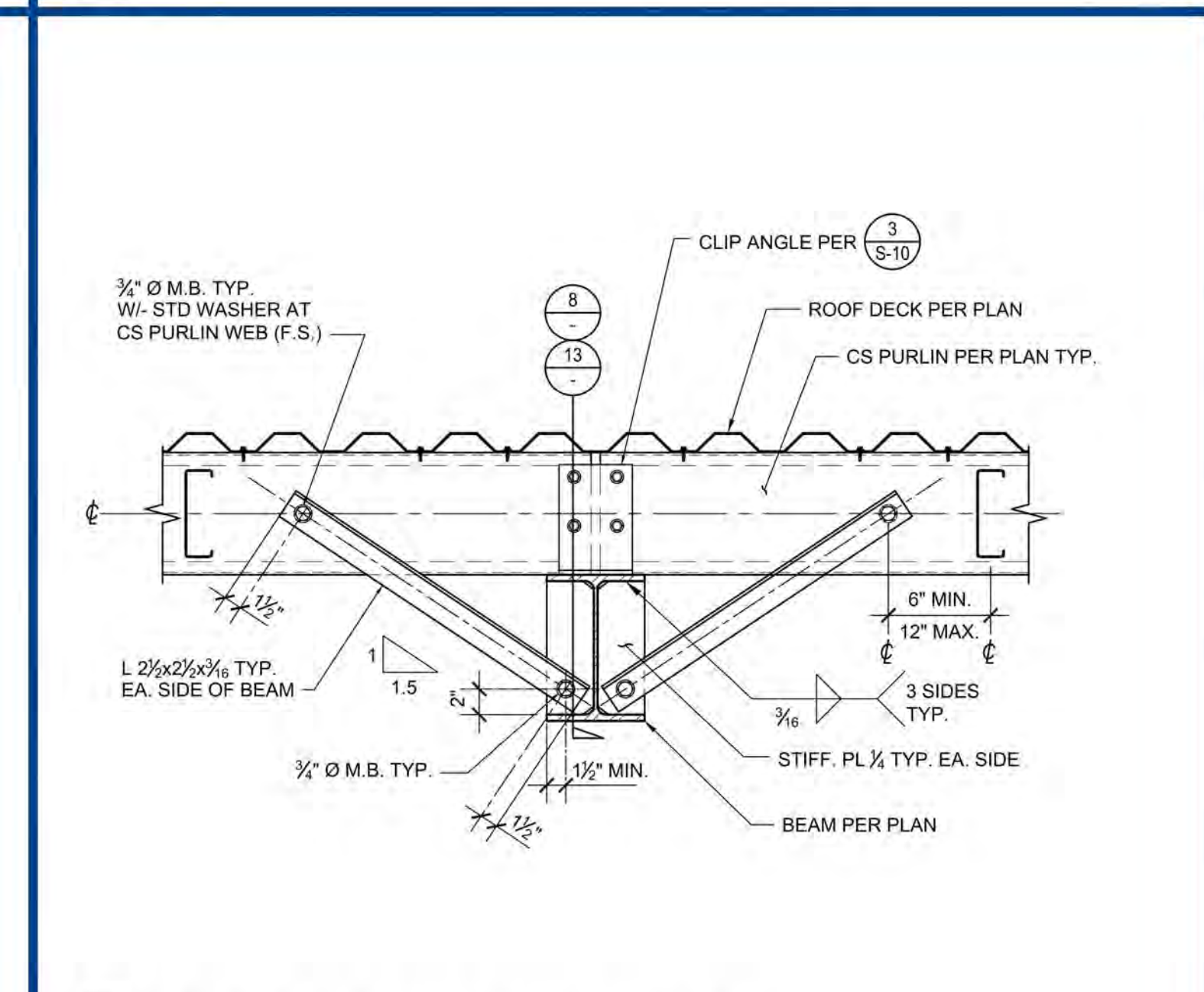
I.D. #	CONNECTION PLATES						WELD SIZE	BOLTS TOP & BOTT. (8 BOLTS TOTAL)
	t (in)	H (in)	B (in)	G (in)	P (in)	w (in)		
M1, M2	3/4	1'-8"	9	5	2	7/8	4 - 3/4" Ø A325-SC	
M3, M4	1	1'-8"	13	6	2	7/8	4 - 1" Ø A325-SC	

- NOTES:**
- 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.
  - BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED.

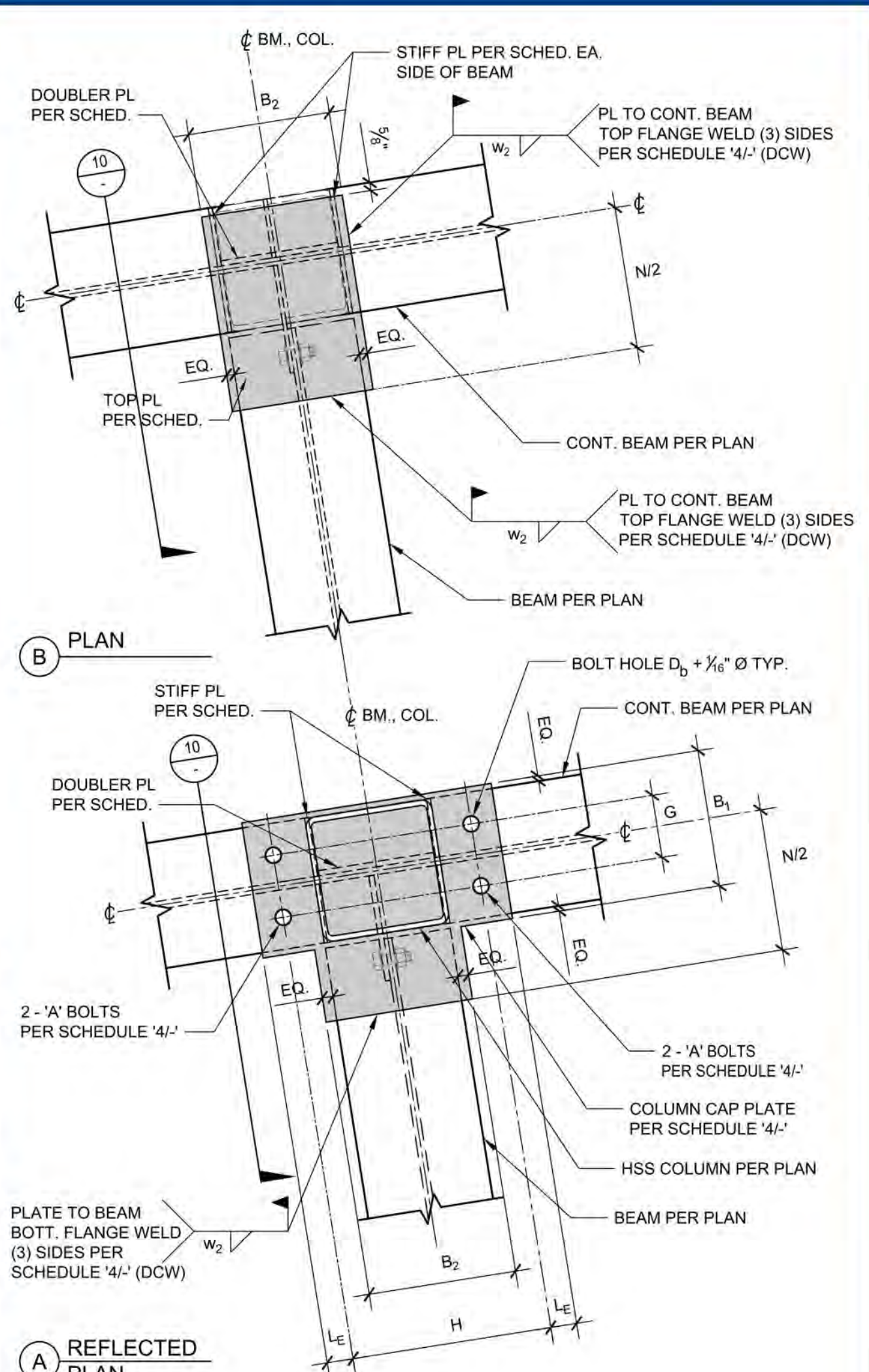
**13 PITCHED BEAM MIDSPAN SPLICE**  
1"=1'-0"



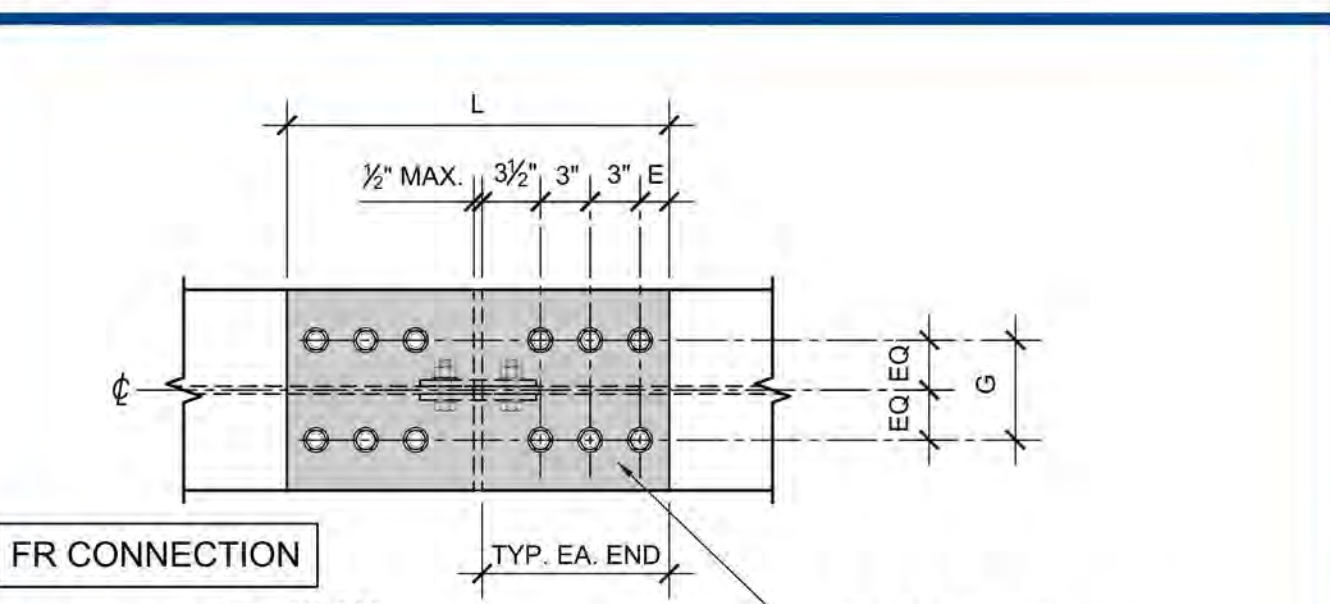
**10 BEAMS AT END HSS COLUMNS**  
1"=1'-0"



**11 TYPICAL BEAM BRACE MIDSPAN**  
1"=1'-0"



**6 BEAM TO END COLUMN**  
1"=1'-0"



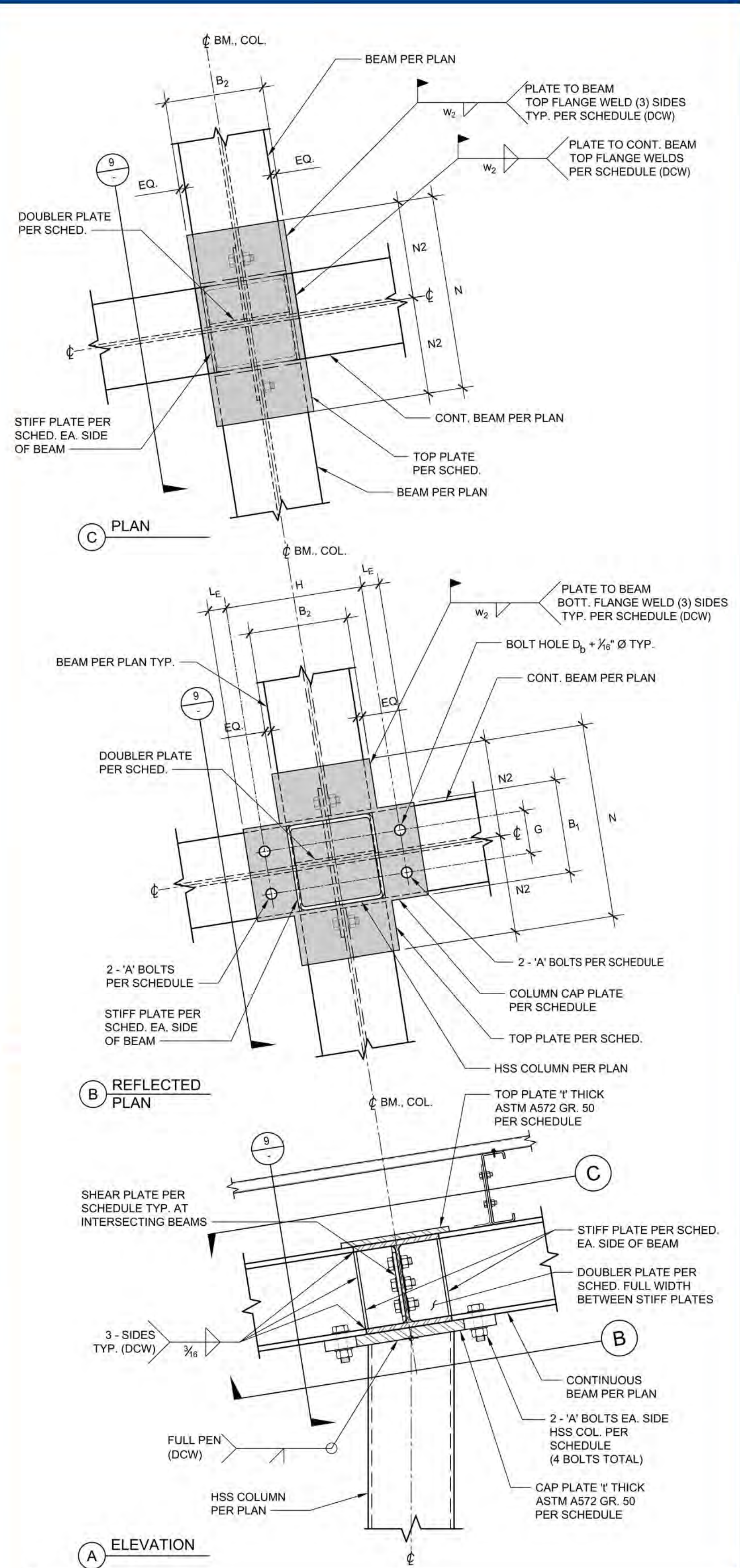
**BEAM MOMENT CONNECTION SCHEDULE**

I.D. #	TOP AND BOTTOM FLANGE PLATES				FLANGE BOLTS
	t (in)	L (in)	E (in)	G (in)	
M1, M2	3/4	22 1/2	1 1/2	5	6
M3, M4	1	23	1 1/2	6	6

**NOTES:**

- 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)	SHEAR PLATE	TOP PLATE	DOUBLER PLATE
	t (in)	B <sub>1</sub> (in)	B <sub>2</sub> (in)	G (in)	H (in)	L <sub>c</sub> (in)	N (in)					
M1	1.25	11	11	5	18	2	25	4	7/8	1/2"	3/4"	3/8"
M2	1.25	11	11	5	18	2	25	4	7/8	1/2"	3/4"	3/8"
M3	1.75	14	14	6	22	2.5	29.5	6	7/8	1/2"	1	7/16"
M4	1.75	14	14	6	22	2.5	29.5	6	7/8	1/2"	1	7/16"

**NOTES:**

- 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.
- BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED.

**4 BEAM TO INTERIOR COLUMN**  
1"=1'-0"

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

**MBARC CONSTRUCTION INC.**  
17714 ALVARADO, HEADQUARTERS, SAN MARCO, CA 92678  
PHONE: (949) 746-4111 FAX: (949) 746-4887  
WWW.MBARCCONSTRUCTION.COM

**ENGINEER'S APPROVAL**  
PROFESSIONAL ENGINEER  
SERIAL K. PERSEUS  
S 5985

**BID INFORMATION**  
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SS  FL  ACS  CG   
DATE: 11/09/2023

**REVISIONS**

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	12/01/2023	BID SET - NOT DSA APPROVED

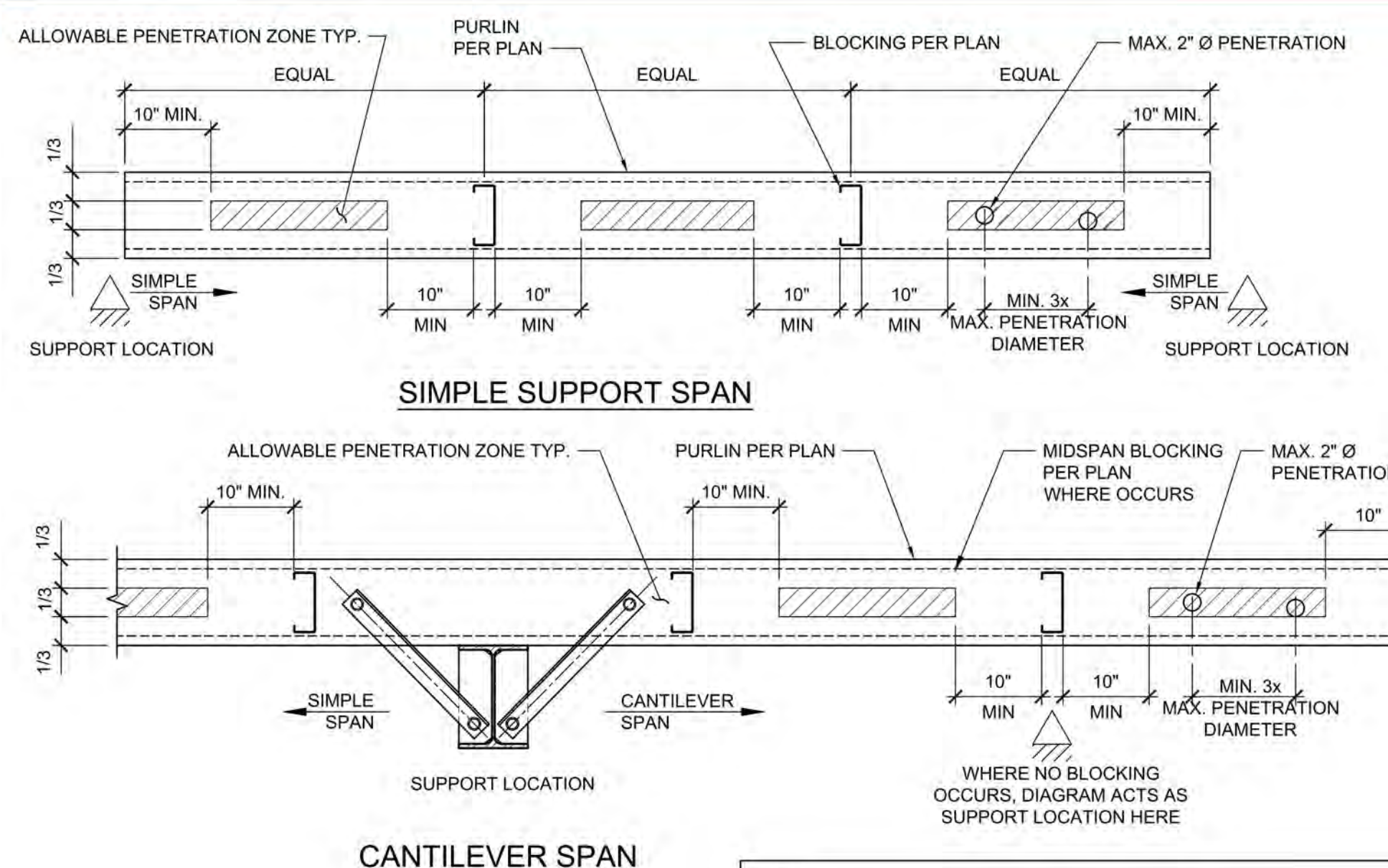
**4 STEL JOB #** MC05-02-1  
**DATE** 11-01-23  
**DRAWN BY** NML  
**CHECKED** CDL

**FRAMING CONNECTION DETAILS**  
**S-9**

**FRAMING CONNECTION DETAILS**  
**S-9**

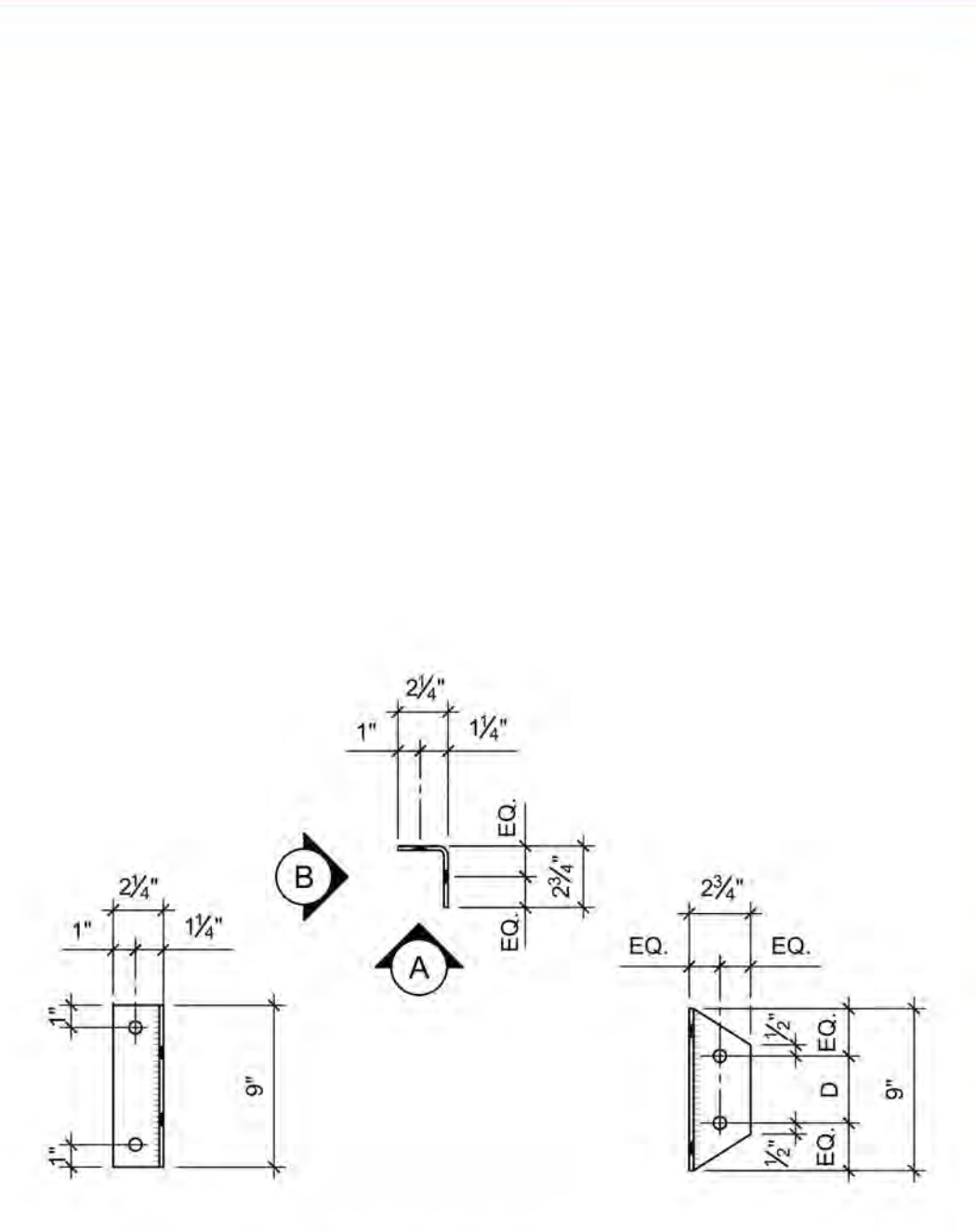
NOTE: IF DWG. IS NOT 24"x36", IT IS NOT FULL SIZE

**SEAL**  
SERIAL K. PERSEUS  
S 5985  
DATE: 11/09/2023

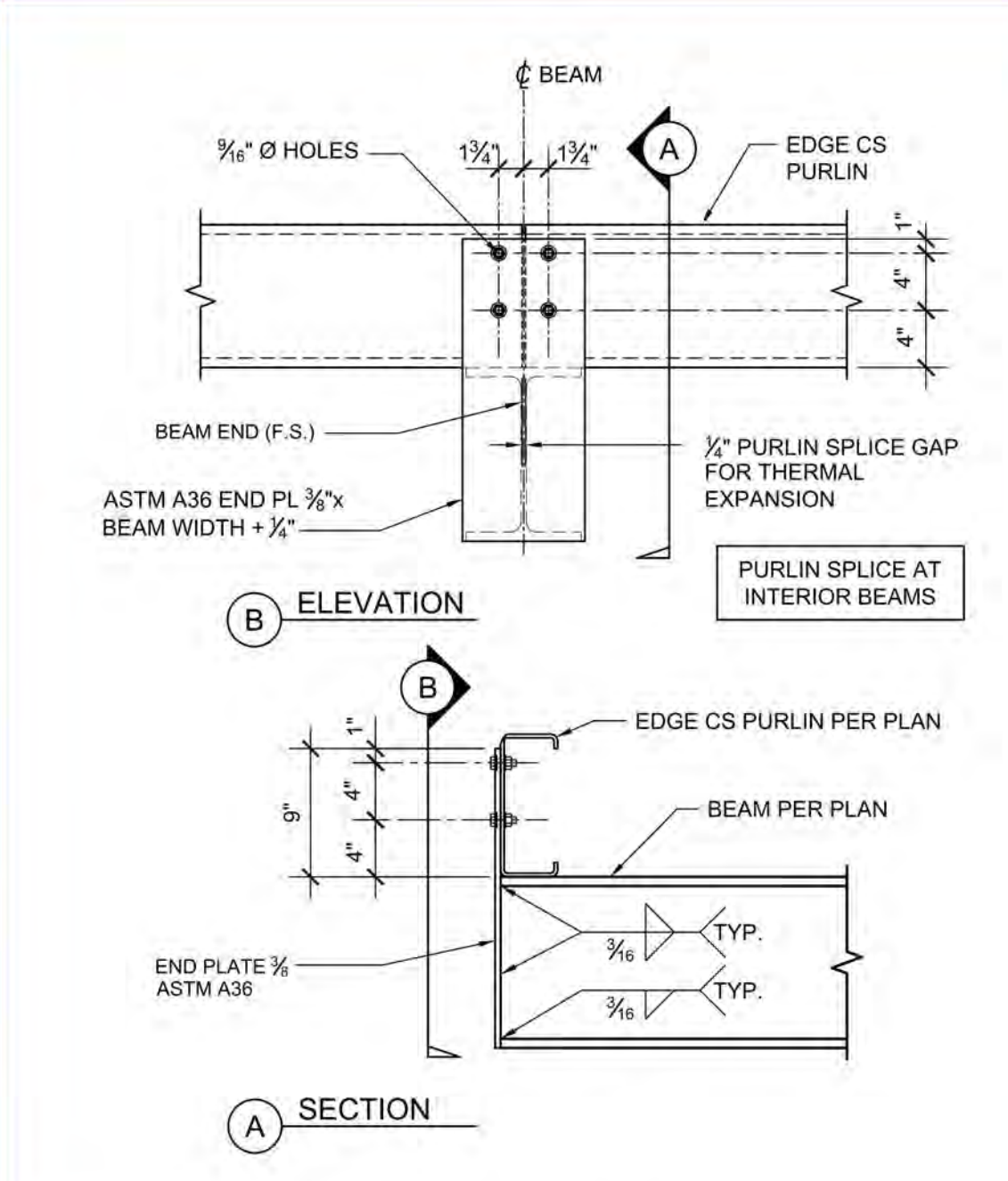


**12 ALLOWABLE PURLIN PENETRATIONS**  
N.T.S.

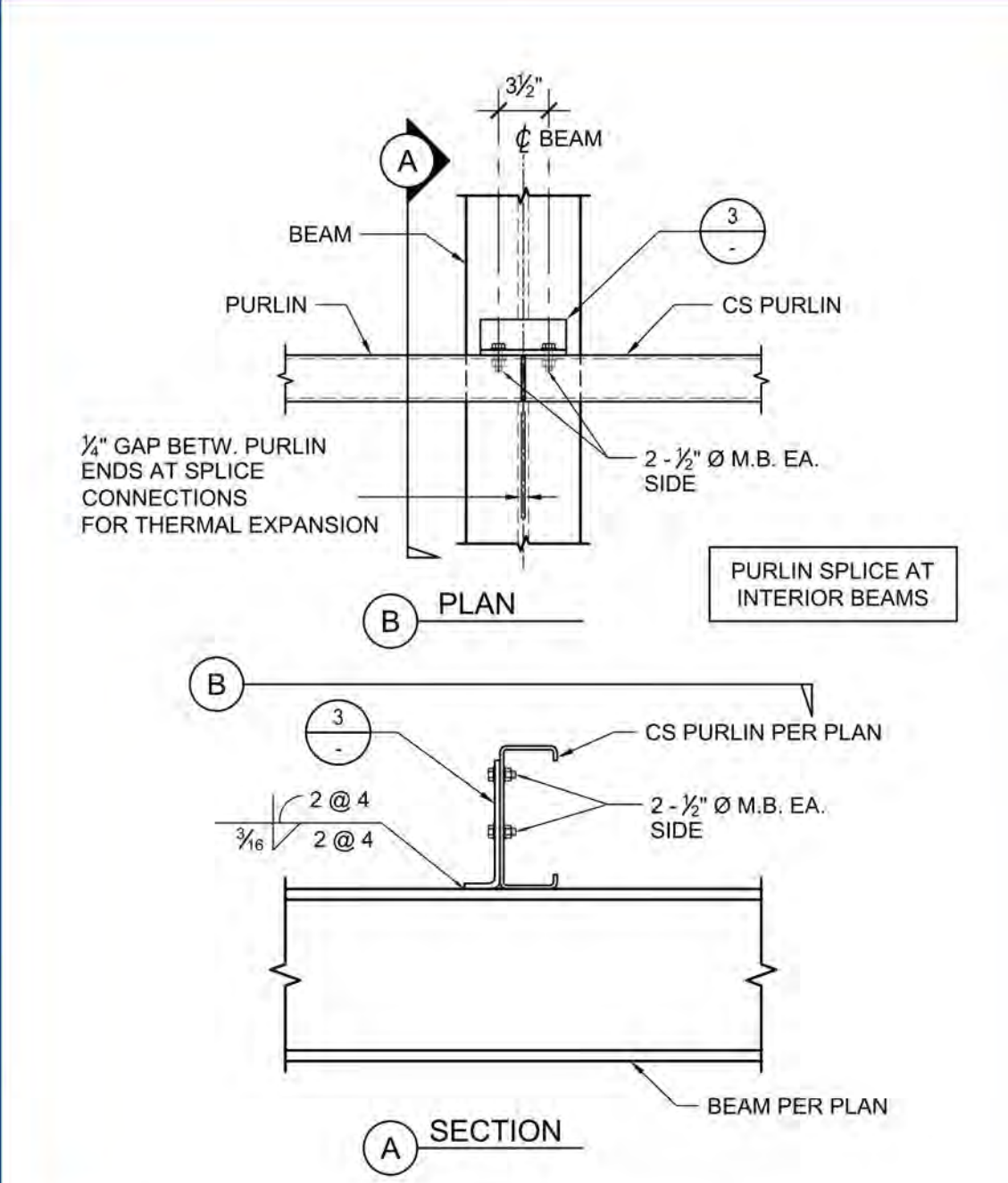
NOTE: IF MORE THAN 5 PENETRATIONS PER SPAN ARE NEEDED, CONTRACTOR TO SUBMIT AN RFI TO DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE TO ENSURE REQUIREMENTS OF THIS DETAIL ARE MET AND TO JUSTIFY THE QUANTITY OF PENETRATIONS NEEDED. FOR PURLINS WITH ANGLE BRACING TO W-BEAMS, A MAXIMUM OF 2 PENETRATIONS IS PERMITTED, AND THERE SHALL BE 2 BLOCKINGS BETWEEN PENETRATION AND ANGLE BRACINGS.



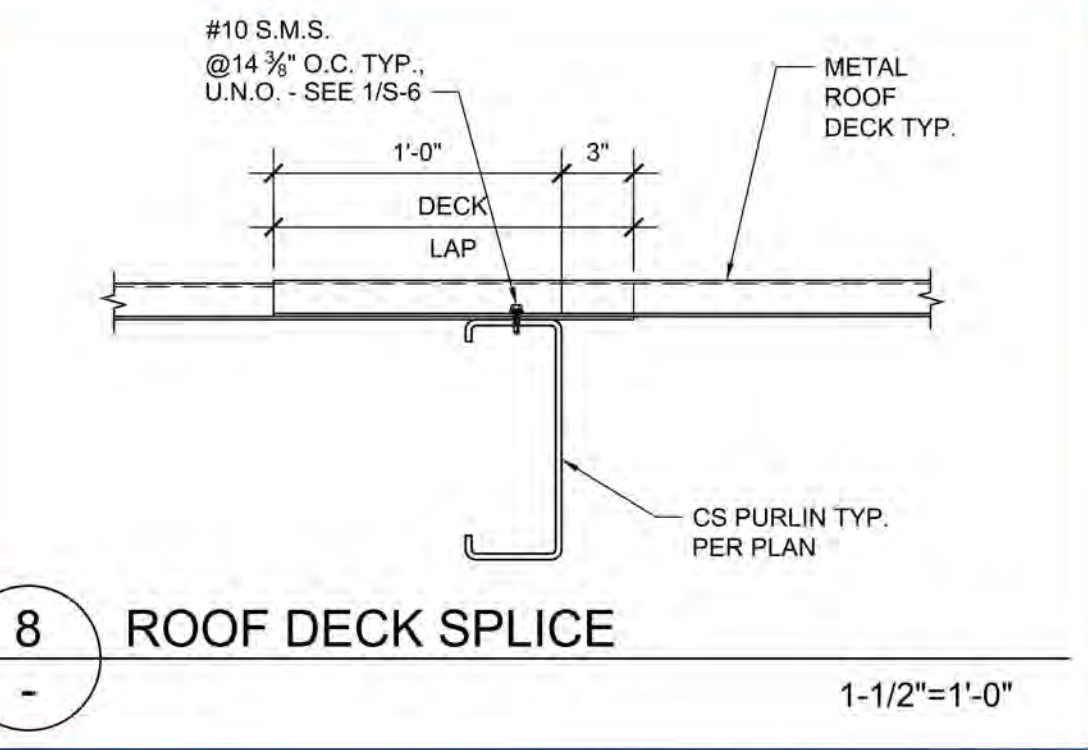
**7A PURLIN BLOCKING CLIP**  
1"=1'-0"



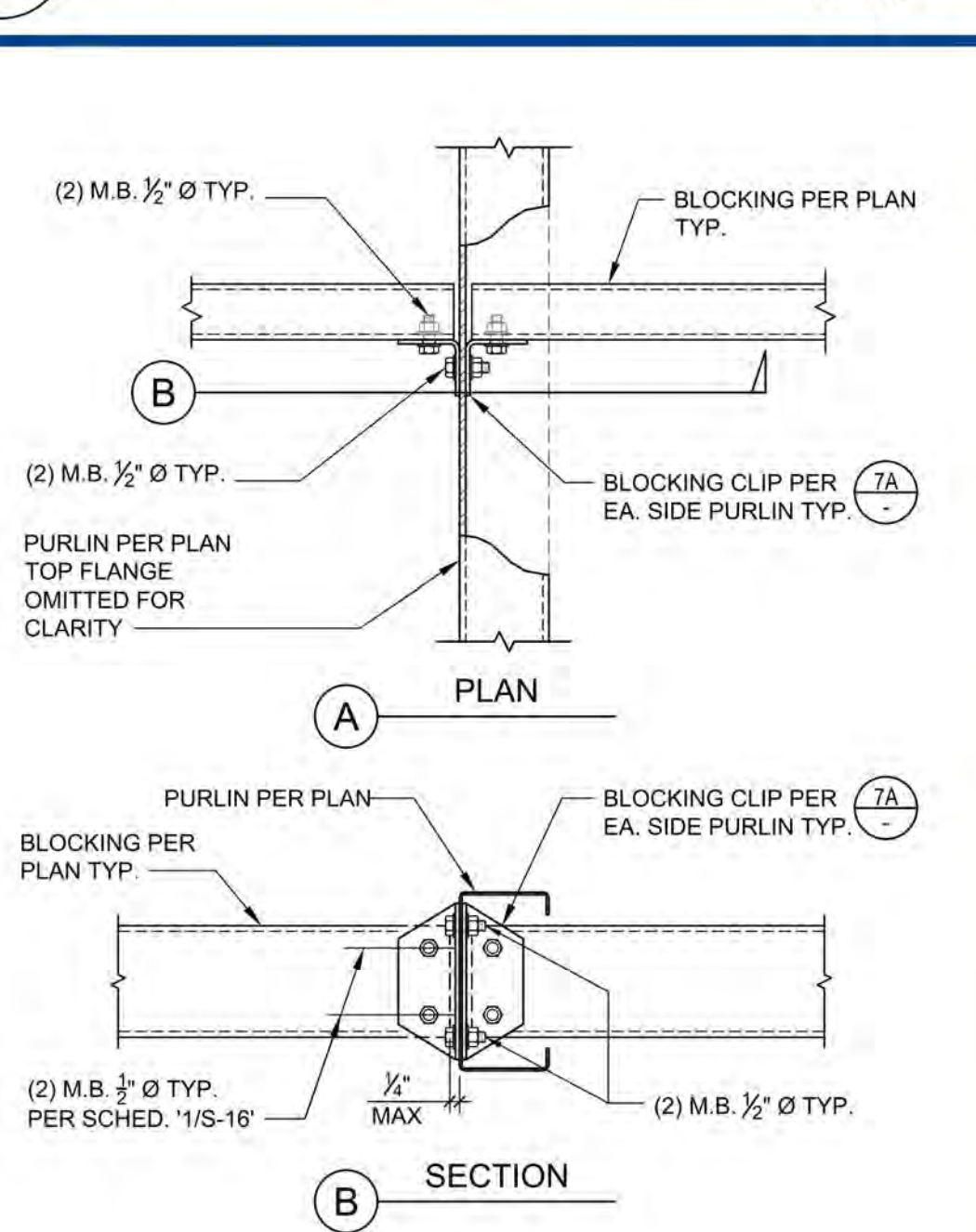
**4 TYPICAL BEAM END PLATE EXTERIOR PURLIN SPLICE**  
1"=1'-0"



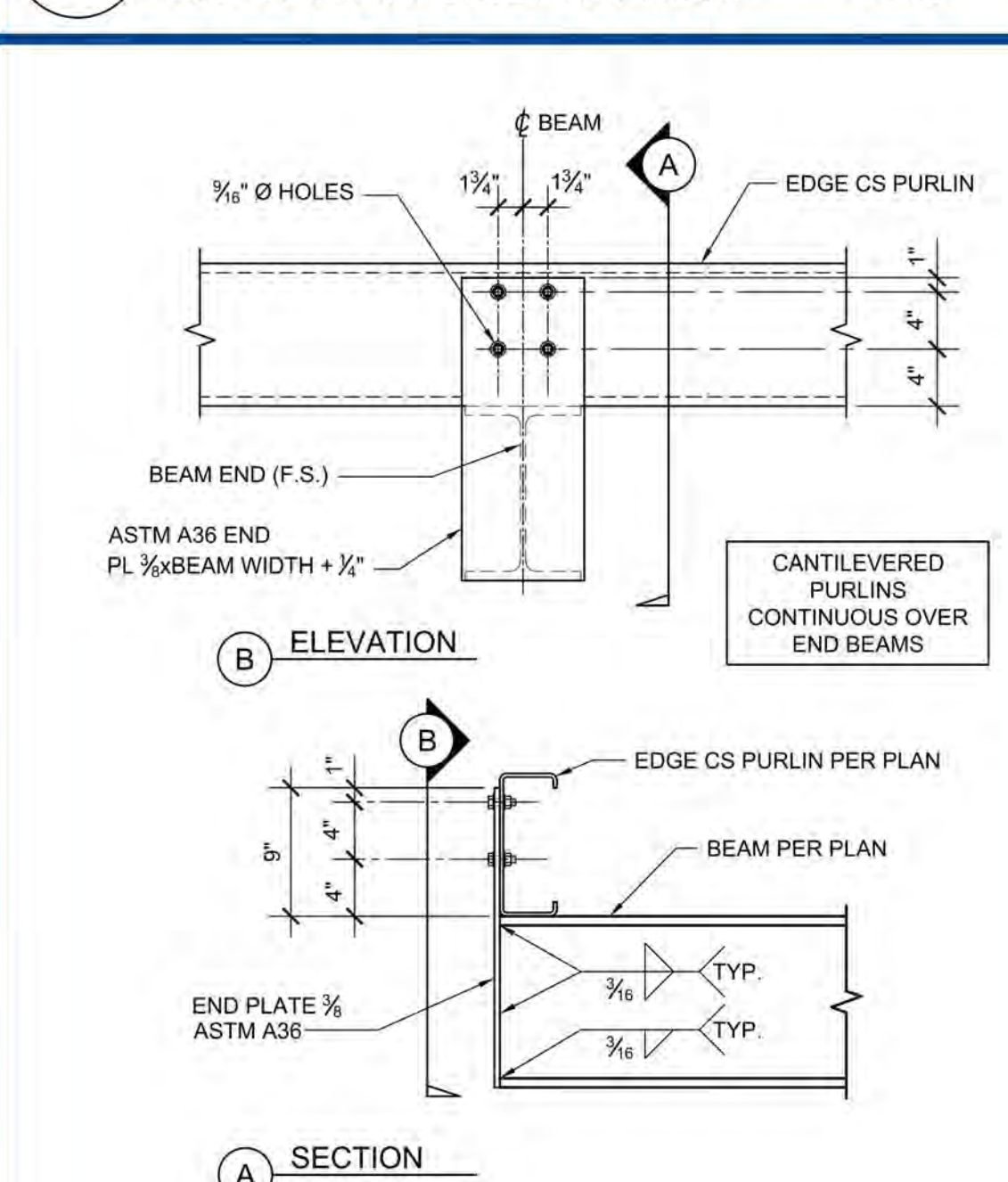
**1 TYPICAL PURLIN SPLICE AT BEAM**  
1"=1'-0"



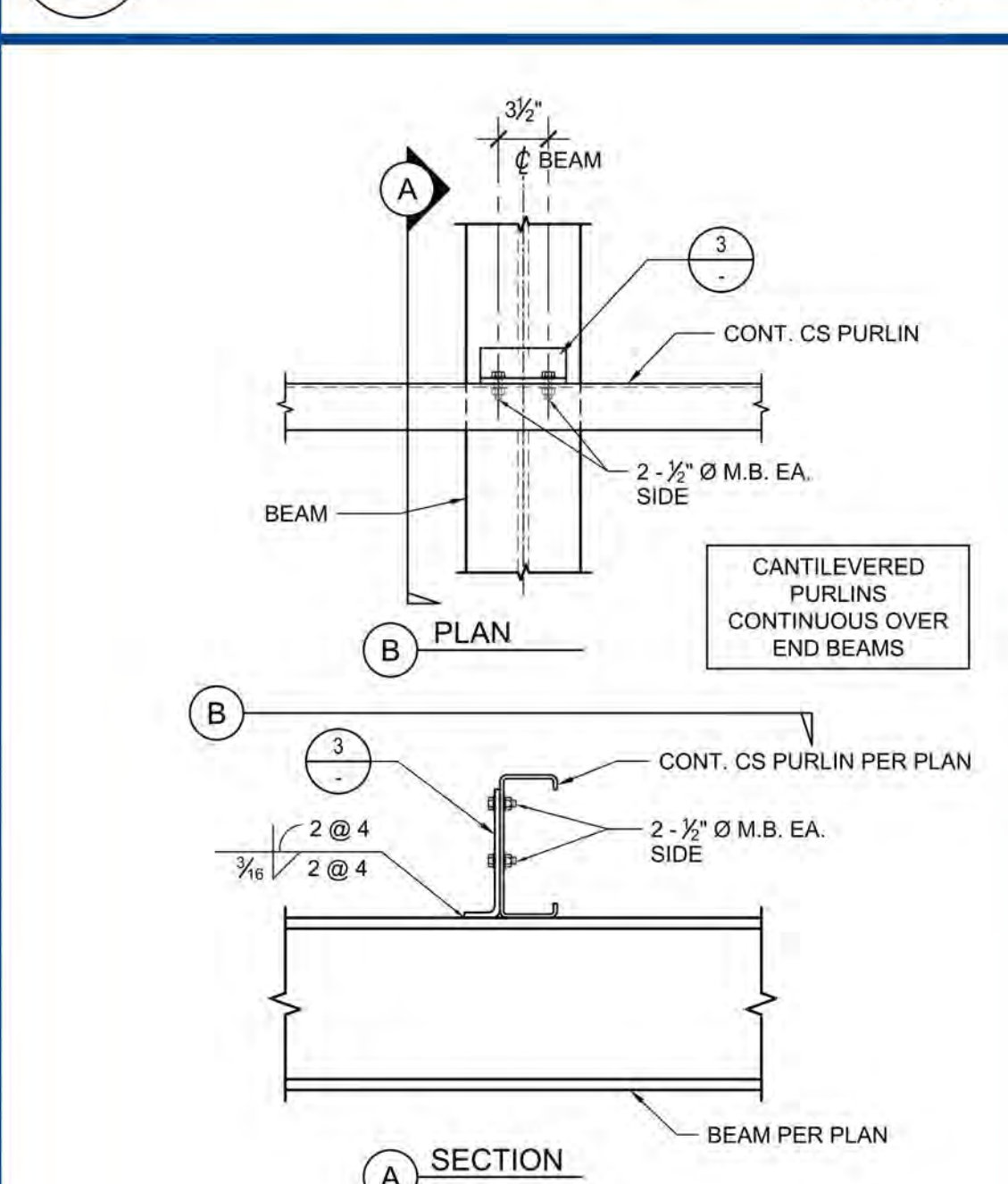
**8 ROOF DECK SPLICE**  
1-1/2"=1'-0"



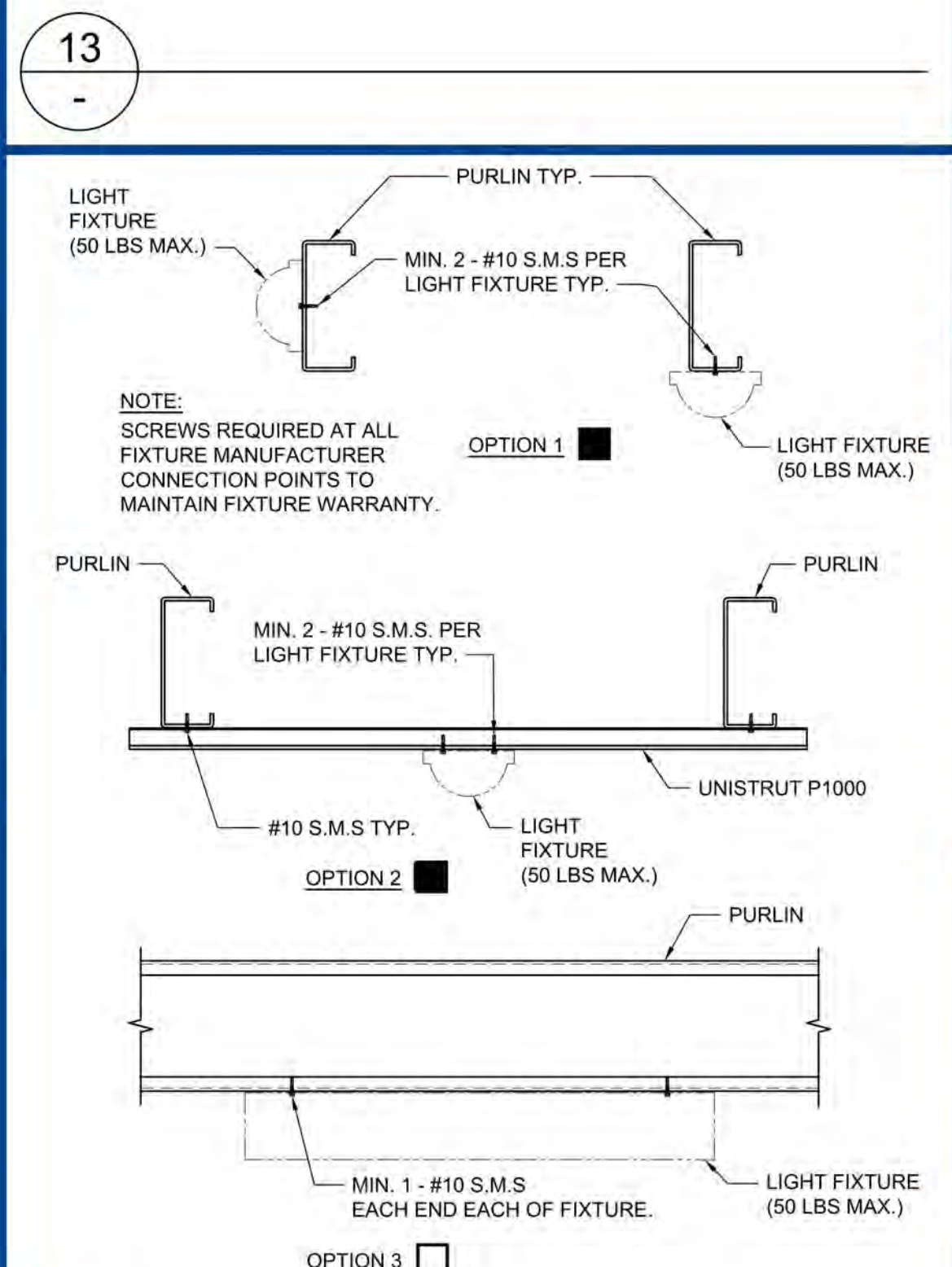
**7B PURLIN BLOCKING CONNECTION AT INTERIOR**  
1"=1'-0"



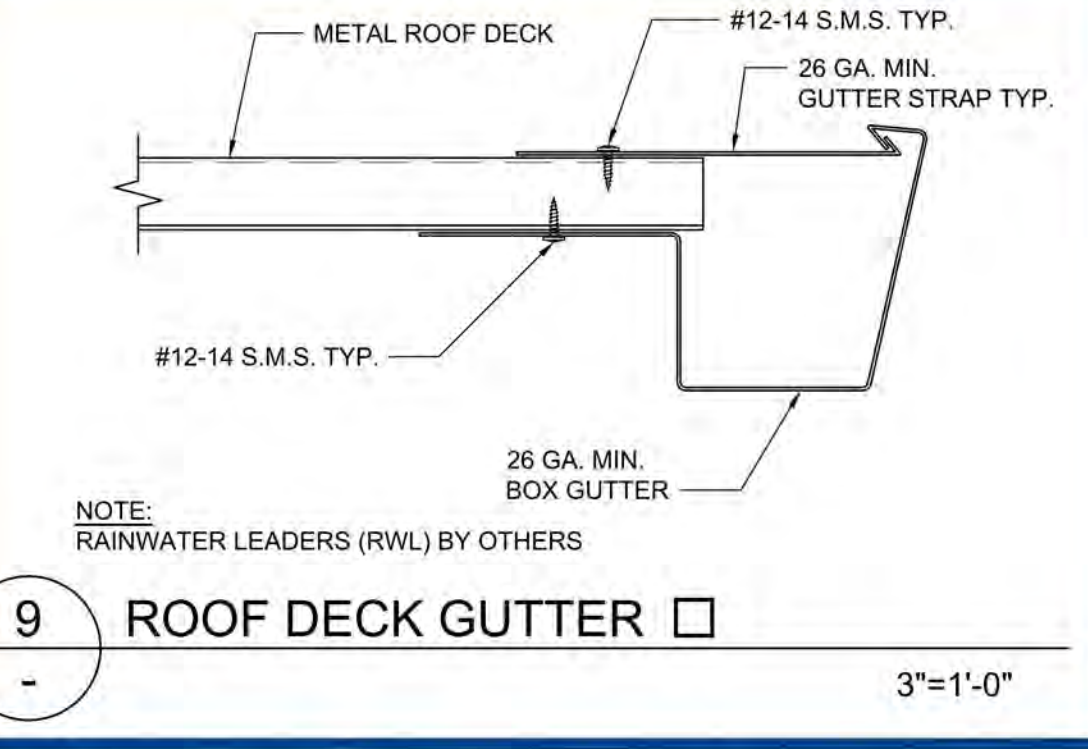
**5 TYPICAL BEAM END PLATE CONT. EXTERIOR PURLIN**  
1"=1'-0"



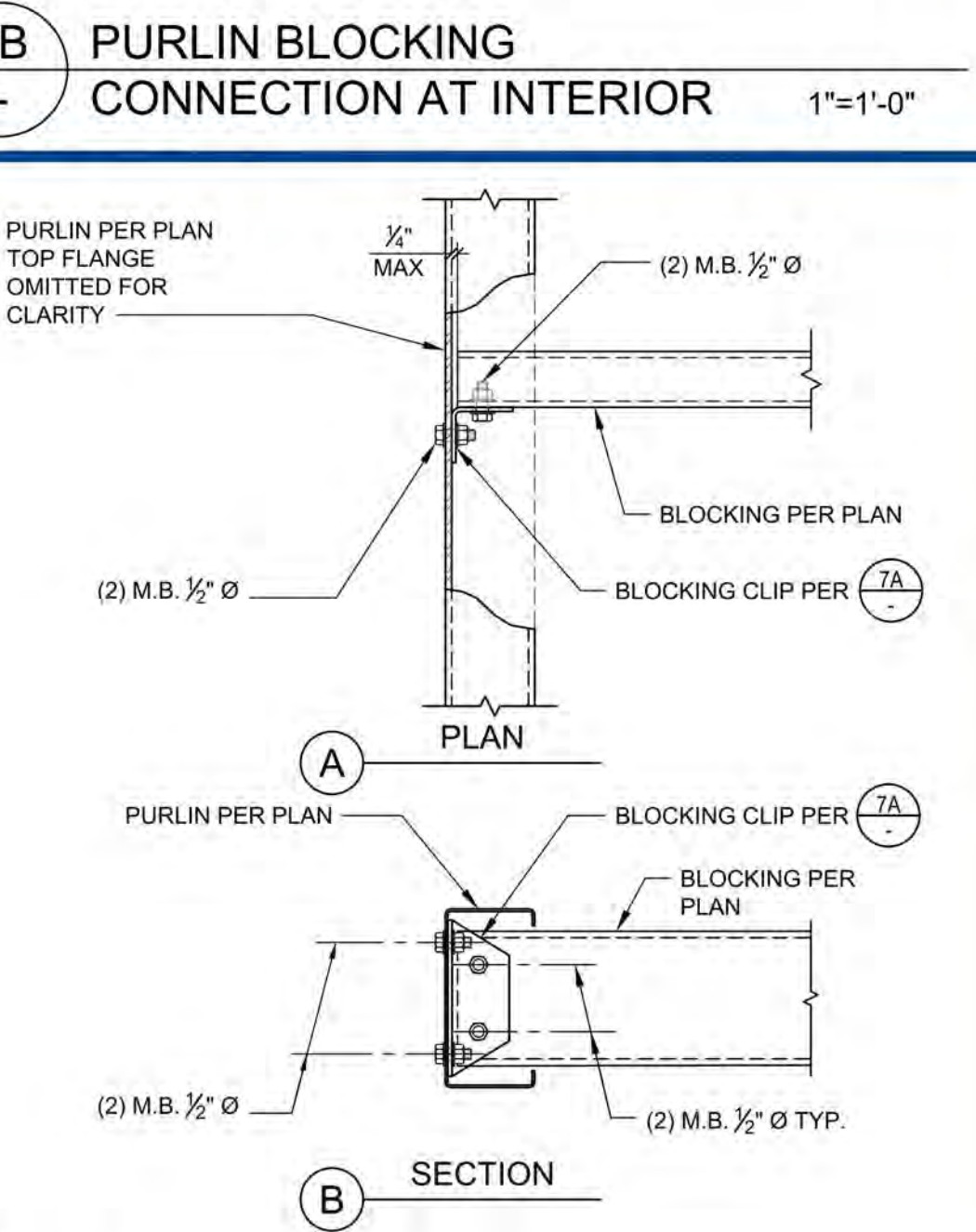
**2 TYP. CONT. PURLIN TO BEAM**  
1"=1'-0"



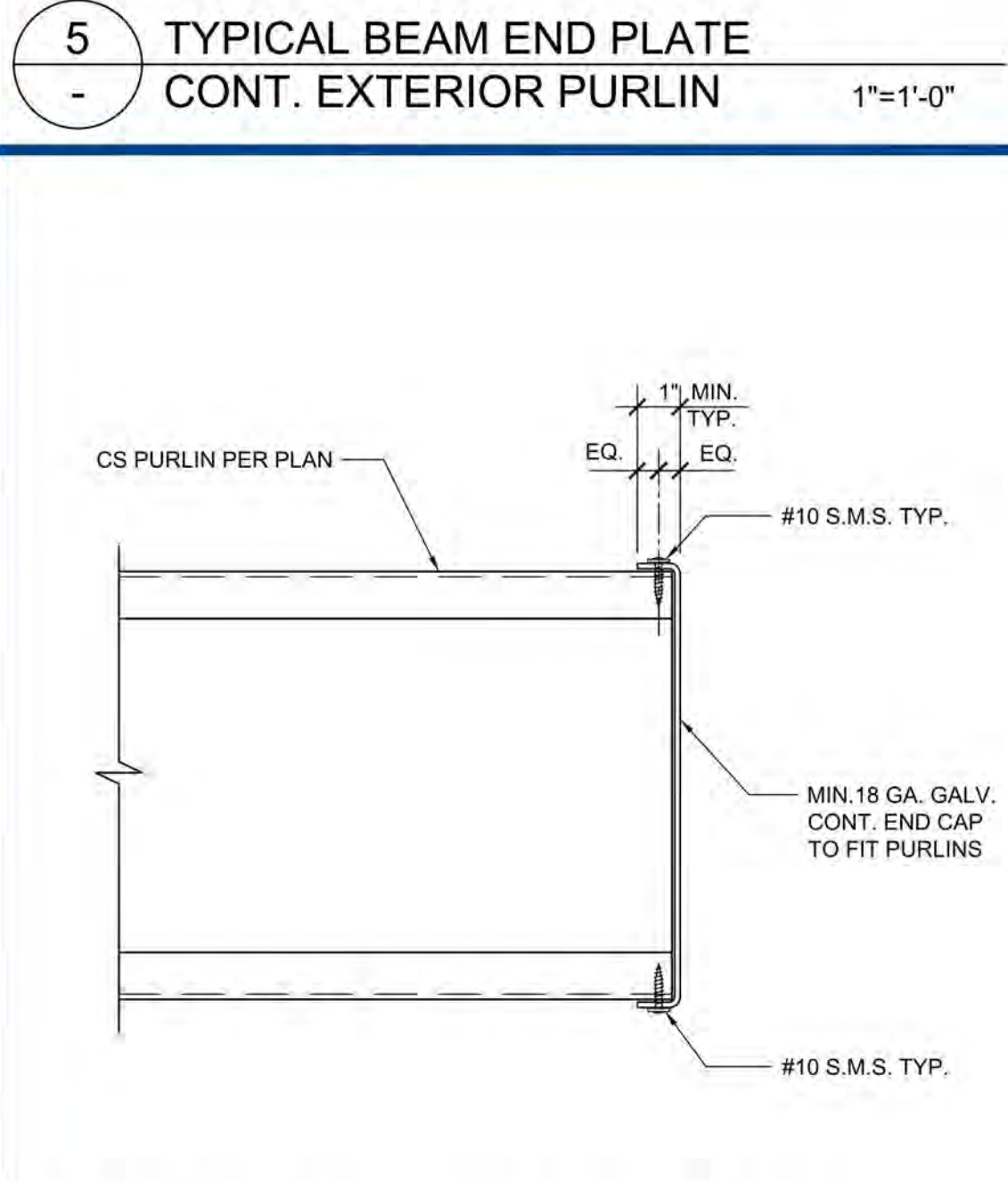
**14 LIGHT INSTALLATION OPTIONS**  
1"=1'-0"



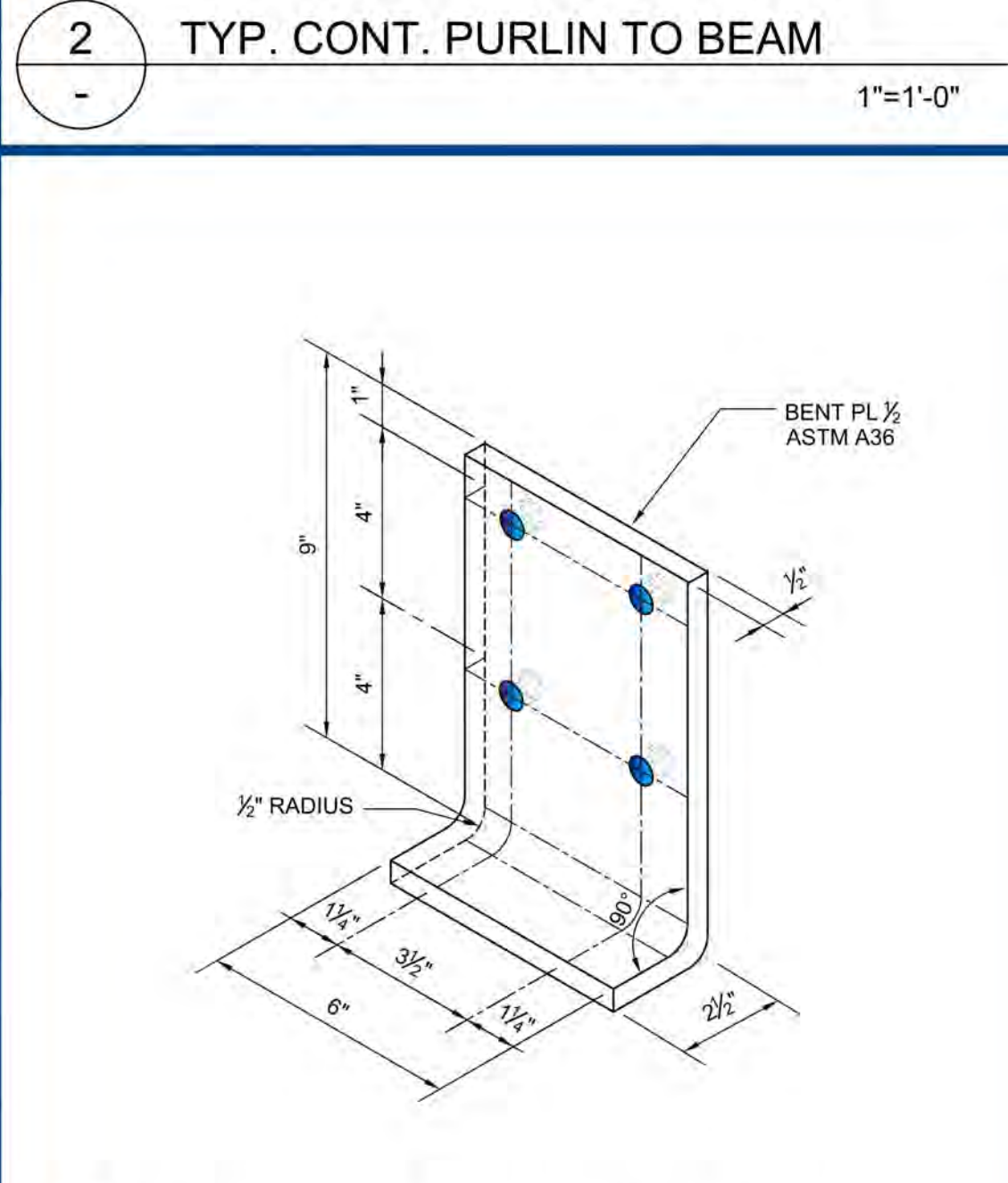
**9 ROOF DECK GUTTER**  
3"=1'-0"



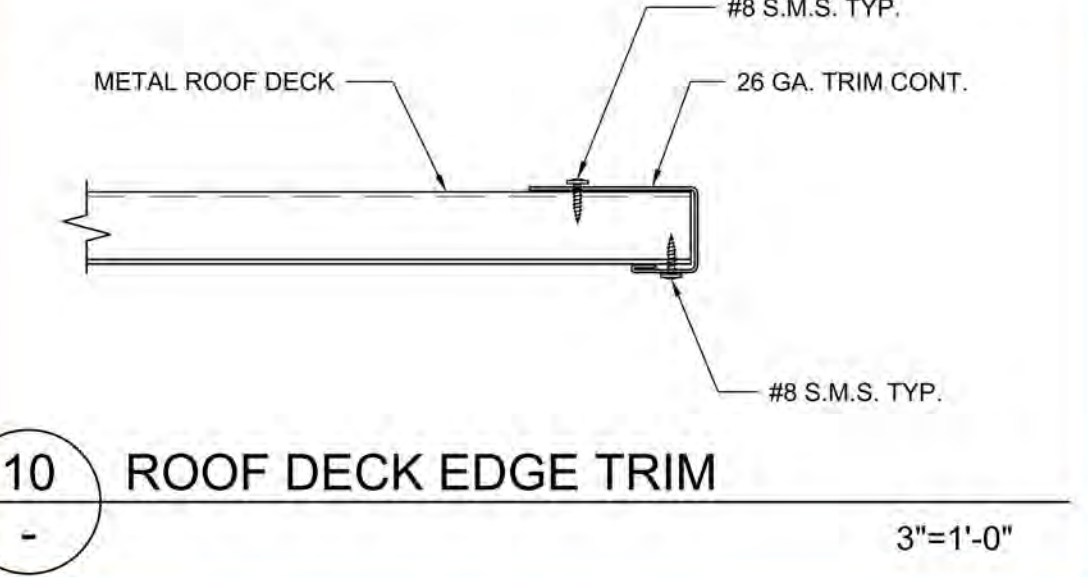
**7C PURLIN BLOCKING CONNECTION AT EXTERIOR**  
1"=1'-0"



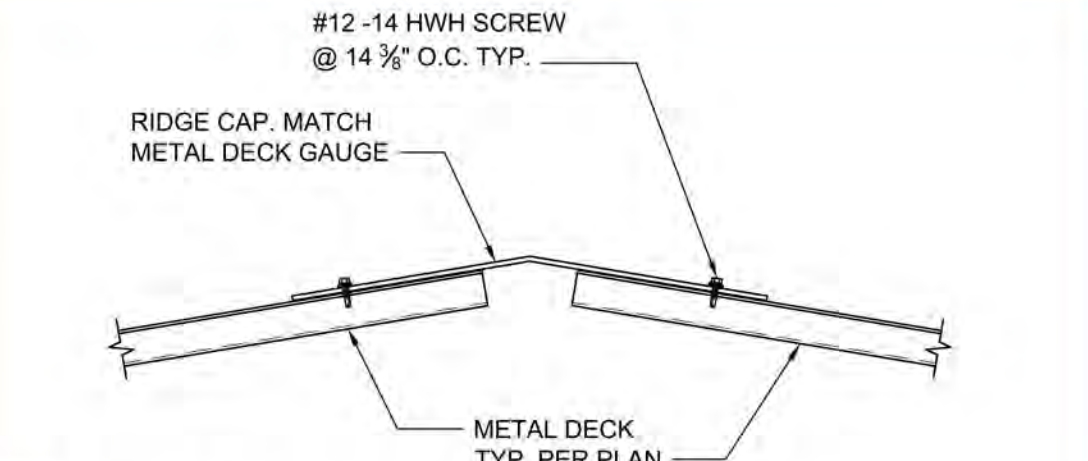
**6 TYP. PURLIN END ENCLOSURE**  
3'-0"=1'-0"



**3 TYPICAL PURLIN CLIP ANGLE**  
3"=1'-0"



**10 ROOF DECK EDGE TRIM**  
3"=1'-0"



**11 ROOF DECK RIDGE CAP**  
1-1/2"=1'-0"

**STEL ENGINEERING**  
26030 ACERO,  
MISSION VIEJO, CA 92691  
949.305.1100 | FAX 949.305.1420

**MBARC CONSTRUCTION INC.**  
1700 LA COSTA  
MISSION VIEJO, CA 92691  
949.305.1100 | FAX 949.305.1420

ENGINEER'S APPROVAL  
*[Signature]*  
S 5885

**BID INFORMATION**  
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SITE SPECIFIC INFORMATION

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REVISIONS

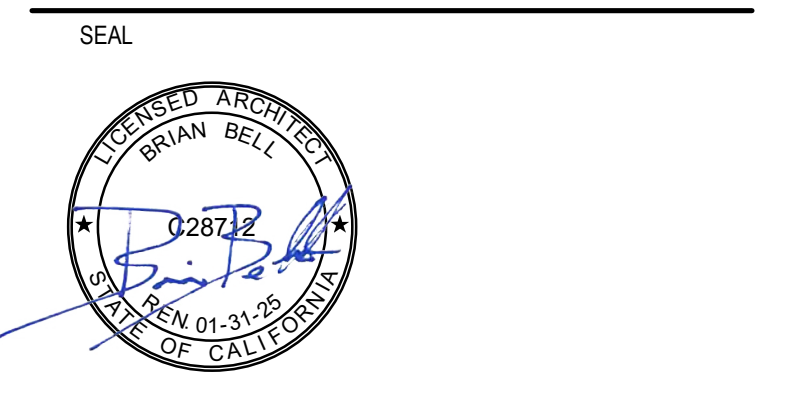
MARK	DATE	DESCRIPTION

4 STEL JOB # MC05-02-1  
DATE 11-01-23  
DRAWN BY NML  
CHECKED CDL

**PURLIN & ROOF DECK DETAILS**

**S-10**

NOTE: IF DIMS. END NOT SHOWN, IT IS NOT FULL SIZE.



PROJECT  
**LUTHER BURBANK HIGH SCHOOL ATHLETIC FIELDS RENOVATION**

3500 FLORIN ROAD  
SACRAMENTO, CA 95823

CLIENT  
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

5735 47TH AVENUE, SACRAMENTO, CA 95824

ISSUED

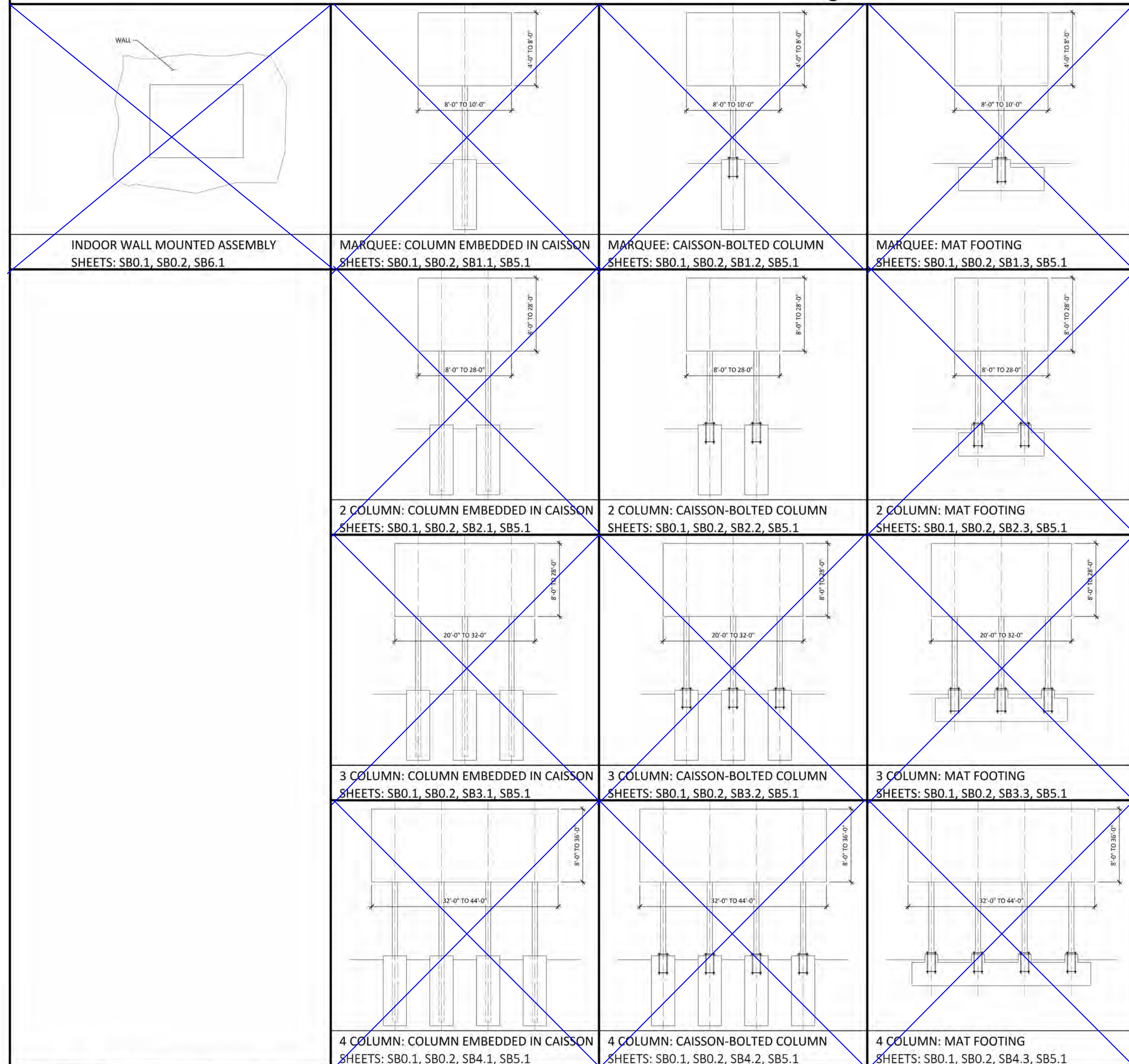
MARK	DATE	DESCRIPTION
	12/01/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

LIONAKIS PROJECT NO:	023041
DSA APPLICATION NO:	02-121593
CLIENT PROJECT NO:	
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TITLE  
**PURLIN & ROOF DECK DETAILS**

SHEET  
**S-10**



**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 SCOREBOARD 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

CHECK ALL THAT APPLY	SHEET INDEX
<input type="checkbox"/> (REQ'D)	SB0.1 COVER SHEET
<input type="checkbox"/> (REQ'D)	SB0.2 STRUCTURAL NOTES
<input type="checkbox"/>	SB0.3 EXAMPLE DSA 103 - TESTING AND INSPECTIONS
<input type="checkbox"/>	SB1.1 MARQUEE CAISSON - EMBEDDED
<input type="checkbox"/>	SB1.2 MARQUEE CAISSON - BOLTED
<input type="checkbox"/>	SB1.3 MARQUEE MAT FOOTING
<input type="checkbox"/>	SB2.1 TWO COLUMN CAISSON - EMBEDDED
<input type="checkbox"/>	SB2.2 TWO COLUMN CAISSON - BOLTED
<input type="checkbox"/>	SB2.3 TWO COLUMN MAT FOOTING
<input type="checkbox"/>	SB3.1 THREE COLUMN CAISSON - EMBEDDED
<input type="checkbox"/>	SB3.2 THREE COLUMN CAISSON - BOLTED
<input type="checkbox"/>	SB3.3 THREE COLUMN MAT FOOTING
<input type="checkbox"/>	SB4.1 FOUR COLUMN CAISSON - EMBEDDED
<input type="checkbox"/>	SB4.2 FOUR COLUMN CAISSON - BOLTED
<input type="checkbox"/>	SB4.3 FOUR COLUMN MAT FOOTING
<input checked="" type="checkbox"/>	SB5.1 ATTACHMENT DETAILS
<input type="checkbox"/>	SB5.2 OPTIONAL SCOREBOARD FEATURE ATTACHMENT DETAILS
<input type="checkbox"/>	SB5.3 DECORATIVE ALUMINUM TRUSS ATTACHMENT DETAILS
<input type="checkbox"/>	SB5.4 DECORATIVE ALUMINUM TRUSS ATTACHMENT DETAILS & 10mm VIDEO BOARD
<input type="checkbox"/>	SB6.1 INDOOR WALL MOUNTED SCOREBOARD

**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:

- 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.
- 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.
- WHERE WIRELESS CONTROLLERS ARE NOT SPECIFIED, AN ACCESSIBLE PATH OF TRAVEL AND ACCESSIBLE SEATING FOR THE SCOREBOARD OPERATOR SHALL BE IDENTIFIED AND PROVIDED.
- 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.
- THE APPLICABLE SHEETS SHALL BE IDENTIFIED BY MARKING APPROPRIATE CHECK BOX ON THIS SHEET.
- THE APPLICABLE CONFIGURATION SHALL BE IDENTIFIED BY MARKING APPROPRIATE CHECK BOX ON THE 'A' DETAILS ON THE APPLICABLE SHEET.
- PROVIDE CUT SHEETS OF THE BOARDS, BOXES, AND EQUIPMENT TO BE MOUNTED ON THE STRUCTURE. CUT SHEETS SHALL INCLUDE WEIGHTS AND DIMENSIONS
- SITE SPECIFIC SEISMIC DESIGN CRITERIA SHALL BE PROVIDED IN THE DRAWINGS.
- SITE SPECIFIC BASIC DESIGN WINDSPEED AND SITE EXPOSURE SHALL BE PROVIDED ON THE DRAWINGS, SEE TABLE C.
- STEEL COATING SPECIFICATIONS FOR WEATHER PROTECTION IF DIFFERENT THAN NOTED ON SB0.3
- 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.
- PROVIDE A SITE SPECIFIC DESIGN FOR STRUCTURES THAT DO NOT MEET THE MINIMUM SETBACK REQUIREMENTS.
- PROVIDE A SITE SPECIFIC DESIGN FOR STRUCTURES LOCATED IN AN AREA WITH LIQUEFIABLE SOIL OR SITE CLASS F.
- 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.

**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

**TABLE C - SITE SPECIFIC SEISMIC AND WIND VALUES**

EARTHQUAKE DESIGN DATA	MAXIMUM	SITE SPECIFIC
Mapped Spectral Response Accelerations (Maximum)	$S_a = 3.73 g$	$S_a = .574 g$
Site Class	D	D
Spectral Response Coefficients (Maximum)	$S_w = 2.49 g$	$S_w = .513 g$
Design Wind Speed (3-sec gust), $V_{30}$	100 mph	93 mph
Exposure Category	C	C

**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, $P_g$ (Maximum)	30 psf
Deflection Criteria:	
Sign, Wind Load	H/240
Wind Design Data	Value
Design Wind Speed (3-sec gust), $V_{30}$	100 mph
Design Wind Speed (3-sec gust), $V_{30}$	77 mph
Risk Category	II
Exposure Category	C
Applicable Internal Pressure Coefficient	$\pm 0.18$
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)	$q_s = 21.8 \text{ psf}$ , $q_e \text{ VARIES}$
Earthquake Design Data	Value
Risk Category	II
Importance Factor, $I_e$	1.0
Mapped Spectral Response Accelerations (Maximum)	$S_a = 3.73 g$
Site Class	A through E
Spectral Response Coefficients (Maximum)	$S_w = 2.49 g$
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	$C = 0.83$
Design Base Shear	$V = C_s W_e$
Flood Design	Value
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 1806A.2 (Class 5 Material)	
Allowable Soil Bearing Pressure (DL + LL)	1,500 psf
Design Passive Pressure, $P$ (Tabular value has been increased per CBC Section 1806A.3.4 for pier design)	100 psf
Design Skin Friction, $f_s$	100 psf

**TABLE A - SCOREBOARD ASSEMBLY WORKSHEET (1)**

NeVco Part No. or Description	Part Height [ft.]	Part Width [ft.]	Part Weight [lb]
1608 Baseball LED Scoreboard	6 foot	18 foot	715 lbs
ADO 18-3	3	18	900
<b>Total</b>			
<b>TOTAL ASSEMBLY DIMENSIONS &amp; WEIGHT (1)</b>			
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.
<b>SCOREBOARD ASSEMBLY FOOTNOTES</b>			
1. Verify part number, dimensions, and weight with NeVco			
2. See Step 3 of Scoreboard Assembly Worksheet Instructions			

**TABLE D - SITE FLOOD ZONE**

THIS SECTION NOT REQUIRED IF SITE IS IN FLOOD ZONE X

Geotechnical Engineer: \_\_\_\_\_

Letter Dated: \_\_\_\_\_

**SSG**  
structural engineers

REGISTERED PROFESSIONAL ENGINEER  
 CIVIL ENGINEERING  
 No. 5405  
 STATE OF CALIFORNIA  
 08.09.2023

301 East Harris Avenue, Oremville, Illinois 62456  
 Phone: (618) 864-0380  
**www.nevco.com**

**NEVCO**

APPROVED  
 DIV. OF THE STATE ARCHITECT  
 APP: 24-122317-PC  
 RESUBMITTED FOR  
 SS SS SS SS SS SS SS SS SS SS SS SS  
 DATE: 09/20/2023

PRE-CHECK (PC) DOCUMENT  
 CODE: 2022

A separate project application for construction is required.

MARK	DATE	DESCRIPTION
	12/01/2023	BID SET - NOT DSA APPROVED

**COVER SHEET**

DATE: 08.09.2023  
 DRAWN: JMK  
 CHECKED: MEP  
 SBO JOB #: S23109  
**SBO.1**

**LIONAKIS**

2025 Nineteenth Street  
 Sacramento CA 95818  
 P 916.558.1900 F 916.558.1919  
 www.lionakis.com

CONSULTANT

PROJECT  
**LUTHER BURBANK HIGH SCHOOL  
 ATHLETIC FIELDS RENOVATION**

3500 FLORIN ROAD  
 SACRAMENTO, CA 95823

CLIENT  
 SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

5735 47TH AVENUE, SACRAMENTO, CA 95824

ISSUED

MARK	DATE	DESCRIPTION
	12/01/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

LIONAKIS PROJECT NO.: 023041  
 DSA APPLICATION NO.: 02-121593  
 CLIENT PROJECT NO.:  
 COPYRIGHT: LIONAKIS 2022

TITLE  
**COVER**

SHEET  
**SB0.1**

IF THIS SHEET IS NOT 30"x42" IT IS A REDUCED PRINT - SCALE ACCORDINGLY  
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0.14" = 1' SCALE ACCORDINGLY  
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1/20/2023 3:20:00 PM

### STRUCTURAL NOTES

#### GENERAL NOTES

- The following notes, typical details and schedules shall apply to all phases of this project unless otherwise shown or noted.
- Specific notes and details shall take precedence over general notes and typical details.
- 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.
- The "Contract or Construction Documents" shall consist of these notes, details, schedules, plans, and drawings.
- All specifications, including but not limited to materials and products, shall be those just 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- Inspection and approval for fabricator's shops used for fabrication of structural load bearing members, components, materials or assemblies shall conform to CBC Section 170A4.2.5.
- Labeling (as required or specified) shall be in accordance with CBC Section 170A4.6.
- 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.
- 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.
- 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.
- 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.
- Where any conflict occurs between the requirements of federal, state and local laws, codes, ordinances, rules and regulations, the most stringent shall govern.
- Written dimensions shall have precedence over scaled dimensions.
- Drawings (notes, schedules, details and plans) shall have precedence over Structural Calculations.
- 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.
- ASTM designation and all standards refer to the latest amendments.
- These structural "Contract or Construction Documents" shall not be modified without prior written approval of the Structural Engineer of Record.
- Only structural working drawings approved by the Division of the State Architect are 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.
- 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

- Basic: See Structural Design Values Chart, Sheet SBO.1 Table B
- Unexpected soil conditions: Allowable values and foundation design are based upon the minimum values provided in Table 170A4.2 of the 2022 California Building Code. See SBO.1 for values.
- 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 soil around higher elevation.
- Footings shall be poured in neat excavations, without side forms whenever possible.
- Carry all foundations to required depths into compacted fill or natural soil (As per Structural Plans and Details).
- 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.
- 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.
- The sides and bottoms of excavations which are to have concrete contact must be moistened several times just prior to pouring upon them.
- De-water footings, as required, to maintain dry working conditions.

#### REINFORCING STEEL

- All reinforcing steel shall be deformed intermediate grade bars conforming to ASTM A615, Grade 60 ( $f_y = 60$  ksi) unless noted otherwise.
- Reinforcing steel shall not be welded, unless specifically noted otherwise.
- 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.
- 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.
- Refer to typical details for minimum splice length and minimum radius of bend of reinforcing steel.
- All reinforcing steel splices shall be staggered 24", unless specifically noted or detailed otherwise.
- All reinforcing bar bends shall be made cold.
- Fabrication, erection and placement of reinforcing steel shall conform to Concrete Reinforcing Steel Institute's Standard Practice.
- Reinforcing steel shall be clean of rust, grease or other material likely to impair bond.

#### CONCRETE

- 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).
  - Concrete for footings: 4,500 psi  $w/c = 0.45$  max.
- Maximum Fly Ash content shall be 15% by weight of total cementitious materials and shall conform to ASTM C618.
- All concrete work shall comply with CBC Chapter 19A and ACI 318-19 and latest edition of ACI Manual of Concrete Practice.
- Special Inspection (as required or specified) shall conform to CBC Chapter 17A.
- Cement shall be portland cement Type V and shall conform to ASTM C150.

### ABBREVIATIONS

A.B.	Anchor Bolt	HORIZ.	Horizontal
ABV.	Above	HSS	Hollow Steel Section
ACI	American Concrete Institute	HT	Height
ADJ.	Adjacent	ICC	International Building Code
AHI	Division of the State Architect	ICC	International Code Council
ASC	American Society of Civil Engineers	ICC	International Code Council
AOR	Architect of Record	ID	Inside Diameter
APPROX.	Approximately	IN	Inch, Inches
ASCE	American Society of Civil Engineers	INT.	Interior
ARCH.	Architect	ksi	Kips per Square Inch
ASTM	American Society of Testing and Materials	LL	Live Load
ATR	All Thread Rod	MAX.	Maximum
AWW	American Welding Society	MB	Machine Bolt
BO.	Bottom of	MFR.	Manufactured, Manufacturer
BOT.	Bottom	MIN.	Minimum
b/t	Between	MPH	Miles per Hour
CAC	California Administrative Code	N/R	Not Required
CBC	California Building Code	N.T.S.	Not to Scale
CF	Cast-in-place	OD	Outside Diameter
CIP	Complete Joint Penetration	o.c.	On Center
E	Centerline	OV	Over
CLR	Clear	OD	Outside Diameter
COL.	Column	PEN.	Penetration
CONC.	Concrete	PL	Plate
CONN.	Connection	PP	Partial Joint Penetration
CONSTR.	Construction	PSF	Pounds per Square Foot
CONT.	Continuous	PSI	Pounds per Square Inch
D	Diameter	REBAR	Reinforcing Bar
DBL	Double	REINF.	Reinforcement
DET.	Detail	REQ'D	Required
DL	Dead Load	S.F.	Square Feet
DSA	Division of State Architect	SHT.	Sheet
DWS	Drawings	SMS	Sheet Metal Screw
E.A.	Each	SM	Similar
E.F.	Each Face	SMS	Sheet Metal Screw
ELEC.	Electric, Electrical	SQ.	Square
ELEV.	Elevation	STAGG'D	Staggered
EMBED.	Embedded, Embedment	STD.	Standard
EOR	Engineer of Record	STL.	Steel
EQ.	Equipment	STR.	Structural Engineer of Record
EQUIP.	Equipment	T&B	Top and Bottom
E.S.	Each Side	THRD	Threaded
E.W.	Each Way	T.O.	Top of
EXT.	Exterior	TPP.	Typical
FAB.	Fabricated	U.N.O.	Unless Noted Otherwise
FDN.	Foundation	VERT.	Vertical
F.G.	Finish Grade	VFY	Verify in Field
F.O.	Face of	VFY	Verify in Field
FRM.	Framing	W	With
FT.	Foot, Feet	w/c	Water/Cement Ratio
FTG.	Footings	WSS	Welded Steel Stud
GA.	Gauge	WT	Weight
GALV.	Galvanized		
GEOR.	Geotechnical Engineer of Record		

### ABBREVIATIONS

A.B.	Anchor Bolt	HORIZ.	Horizontal
ABV.	Above	HSS	Hollow Steel Section
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ADJ.	Adjacent	ICC	International Building Code
AHI	Division of the State Architect	ICC	International Code Council
ASC	American Society of Civil Engineers	ICC	International Code Council
AOR	Architect of Record	ID	Inside Diameter
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ARCH.	Architect	ksi	Kips per Square Inch
ASTM	American Society of Testing and Materials	LL	Live Load
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BOT.	Bottom	MIN.	Minimum
b/t	Between	MPH	Miles per Hour
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ELEV.	Elevation	STAGG'D	Staggered
EMBED.	Embedded, Embedment	STD.	Standard
EOR	Engineer of Record	STL.	Steel
EQ.	Equipment	STR.	Structural Engineer of Record
EQUIP.	Equipment	T&B	Top and Bottom
E.S.	Each Side	THRD	Threaded
E.W.	Each Way	T.O.	Top of
EXT.	Exterior	TPP.	Typical
FAB.	Fabricated	U.N.O.	Unless Noted Otherwise
FDN.	Foundation	VERT.	Vertical
F.G.	Finish Grade	VFY	Verify in Field
F.O.	Face of	VFY	Verify in Field
FRM.	Framing	W	With
FT.	Foot, Feet	w/c	Water/Cement Ratio
FTG.	Footings	WSS	Welded Steel Stud
GA.	Gauge	WT	Weight
GALV.	Galvanized		
GEOR.	Geotechnical Engineer of Record		

#### POST INSTALLED ANCHOR & TESTING

- 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.
- Test quantity of post-installed anchors as noted below:

Application	Quantity
Non-structural (Equipment Anchorage, etc.)	50%
Structural	100%

- 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.
- All tests shall be performed in the presence of the inspector.
- 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.
- Test equipment is to be calibrated by an approved testing laboratory in accordance with standard recognized procedures.
- 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 discernible 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 1/2 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.
- If any anchor fails testing, test all anchors of the same type not previously tested until consecutive anchors pass, then resume the initial test frequency. If the anchors are used for the support and bracing of non-structural components (pipes, duct or conduits), the twenty shall be only those anchors installed by the same trade.
- Test loads per ICC, IAPMO, OR UES report
- 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 pre-stressed concrete (pre- or post-tensioned) locate the pre-stressed 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	
3/8"	30 ft-lb	30 ft-lb	15 ft-lb	20 ft-lb
1/2"	50 ft-lb	60 ft-lb	25 ft-lb	35 ft-lb
5/8"	40 ft-lb	90 ft-lb	30 ft-lb	55 ft-lb
3/4"	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

REGISTERED PROFESSIONAL ENGINEER  
No. 5405  
STRUCTURAL  
STATE OF CALIFORNIA

DATE PRINTED: 08.09.2023

SEE BEFORE SEAL

NEVCO

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Phone: (618) 684-0980  
www.nevco.com

APPROVED  
DIV. OF THE STATE ARCHITECT  
APP: 4-782347 PC  
REVIEWED FOR  
REVISION: 08/09/2023  
DATE: 08/09/2023

PRE-CHECK (PC) DOCUMENT  
CODE: 2022

A separate project application for construction is required.

STRUCTURAL NOTES & SPECIAL INSPECTIONS

SHEET INFORMATION

DATE	08.09.2023
DRAWN	JMK
CHECKED	MEP
ISSUE NO.	S23109
SHEET	SBO.2

# LIONAKIS

2025 Nineteenth Street  
Sacramento CA 95818  
P 916.558.1900 F 916.558.1919  
www.lionakis.com

CONSULTANT

SEAL

BRIAN BELL  
No. 28712  
REGISTERED PROFESSIONAL ENGINEER  
STATE OF CALIFORNIA

PROJECT  
LUTHER BURBANK HIGH SCHOOL  
ATHLETIC FIELDS RENOVATION

3500 FLORIN ROAD  
SACRAMENTO, CA 95823

CLIENT  
SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

5735 4TH AVENUE, SACRAMENTO, CA 95824

MARK	DATE	DESCRIPTION
	12/01/2023	BID SET - NOT DSA APPROVED

ISSUED	MARK	DATE	DESCRIPTION
		12/01/2023	BID SET - NOT DSA APPROVED

MANAGEMENT	NO.
LIONAKIS PROJECT NO.	023041
DSA APPLICATION NO.	02-121593
CLIENT PROJECT NO.	
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TITLE  
STRUCTURAL NOTES & SPECIAL INSPECTIONS

SHEET  
SBO.2

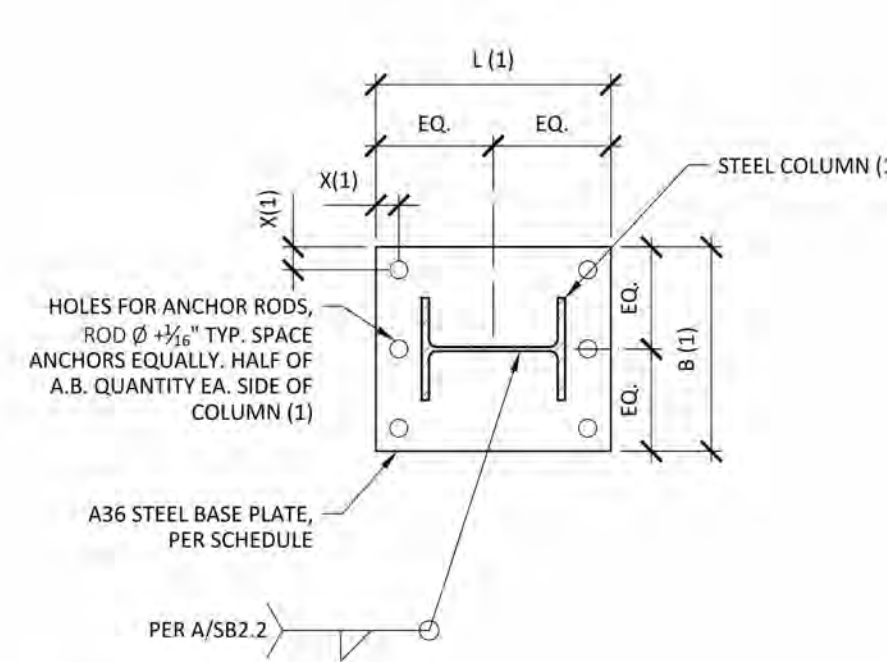


ASSEMBLY WIDTH, W	CHECK OPTION THIS APPLICATION	ASSEMBLY CRITERIA		COLUMN SPACING, S		COLUMN SIZE		PIER FOOTING CRITERIA (2)		BASE PLATE				ANCHOR RODS					
		MAX. WEIGHT	ASSEMBLY HEIGHT, H	W10x33	W10x33	W10x33	W10x33	PIER DIAMETER, d	DEPTH, D	LONG. REINF.	TRANS. REINF. (1)	THICKNESS, t	WIDTH, B	LENGTH, L	WELD	QUANTITY & DIAMETER	GRADE	EDGE DISTANCE, X	GROUT HEIGHT
8'-0"	X	770 lbs.	≤ 8'-0"	6'-0"	W8x24	W8x24	36"Ø	7'-0"	8-#6	#4 @ 45° o.c.	1"	20"	20"	3/16"	(4) - 1/2"Ø	F1554 - GR.36	2 1/2"	2"	48"
		1,160 lbs.	≤ 12'-0"	6'-0"	W10x33	W10x33	36"Ø	8'-0"	8-#6	#4 @ 45° o.c.	1 1/2"	20"	20"	3/16"	(4) - 1/2"Ø	F1554 - GR.36	2 1/2"	2"	48"
		1,540 lbs.	≤ 16'-0"	6'-0"	W12x40	W12x40	36"Ø	9'-0"	8-#6	#4 @ 45° o.c.	1 1/2"	20"	20"	3/16"	(4) - 1/2"Ø	F1554 - GR.55	2 1/2"	2"	64"
9'-0"	X	870 lbs.	≤ 8'-0"	8'-0"	W8x24	W8x24	36"Ø	7'-3"	8-#6	#4 @ 45° o.c.	1"	20"	20"	3/16"	(4) - 1/2"Ø	F1554 - GR.36	2 1/2"	2"	48"
		1,300 lbs.	≤ 12'-0"	8'-0"	W10x33	W10x33	36"Ø	8'-3"	8-#6	#4 @ 45° o.c.	1 1/2"	24"	24"	3/16"	(4) - 1/2"Ø	F1554 - GR.36	2 1/2"	2"	48"
		1,730 lbs.	≤ 16'-0"	8'-0"	W12x45	W12x40	36"Ø	9'-3"	8-#6	#4 @ 45° o.c.	1 1/2"	20"	20"	3/16"	(4) - 1/2"Ø	F1554 - GR.55	2 1/2"	2"	48"
10'-0"	X	2,160 lbs.	≤ 20'-0"	8'-0"	W14x61	W14x61	42"Ø	10'-0"	8-#8	#4 @ 6° o.c.	1 1/2"	24"	24"	3/8"	(4) - 1/2"Ø	F1554 - GR.55	2 1/2"	2"	64"
		960 lbs.	≤ 8'-0"	8'-0"	W8x24	W8x24	36"Ø	7'-0"	8-#6	#4 @ 45° o.c.	1"	20"	20"	3/16"	(4) - 1/2"Ø	F1554 - GR.36	2 1/2"	2"	48"
		1,440 lbs.	≤ 12'-0"	8'-0"	W10x33	W10x33	36"Ø	8'-0"	8-#6	#4 @ 45° o.c.	1 1/2"	20"	20"	3/16"	(4) - 1/2"Ø	F1554 - GR.36	2 1/2"	2"	48"
12'-0"	X	2,880 lbs.	≤ 20'-0"	8'-0"	W14x61	W14x61	48"Ø	10'-3"	8-#8	#4 @ 6° o.c.	1 1/2"	24"	24"	3/8"	(6) - 1/2"Ø	F1554 - GR.55	2 1/2"	2"	64"
		1,160 lbs.	≤ 8'-0"	8'-0"	W10x33	W10x33	36"Ø	8'-9"	8-#6	#4 @ 45° o.c.	1 1/2"	20"	20"	3/16"	(4) - 1/2"Ø	F1554 - GR.55	2 1/2"	2"	48"
		2,310 lbs.	≤ 12'-0"	8'-0"	W14x61	W14x61	42"Ø	10'-3"	8-#8	#4 @ 45° o.c.	1 1/2"	24"	24"	3/8"	(6) - 1/2"Ø	F1554 - GR.55	2 1/2"	2"	64"
16'-0"	X	3,840 lbs.	≤ 20'-0"	8'-0"	W16x77	W16x77	48"Ø	12'-0"	8-#8	#4 @ 6° o.c.	1 1/2"	24"	24"	3/8"	(6) - 1/2"Ø	F1554 - GR.55	2 1/2"	2"	64"
		1,730 lbs.	≤ 8'-0"	10'-0"	W12x55	W12x55	36"Ø	9'-0"	8-#6	#4 @ 45° o.c.	1 1/2"	20"	20"	3/16"	(4) - 1/2"Ø	F1554 - GR.36	2 1/2"	2"	48"
		2,600 lbs.	≤ 12'-0"	10'-0"	W14x48	W14x43	42"Ø	10'-0"	8-#8	#4 @ 6° o.c.	1 1/2"	24"	24"	3/8"	(4) - 1/2"Ø	F1554 - GR.55	2 1/2"	2"	64"
18'-0"	X	3,460 lbs.	≤ 12'-0"	10'-0"	W16x77	W16x77	48"Ø	13'-0"	8-#8	#4 @ 6° o.c.	1 1/2"	24"	30"	3/8"	(8) - 1/2"Ø	F1554 - GR.55	3"	2"	64"
		2,310 lbs.	≤ 8'-0"	14'-0"	W14x43	W14x43	36"Ø	9'-9"	8-#6	#4 @ 45° o.c.	1 1/2"	24"	24"	3/8"	(4) - 1/2"Ø	F1554 - GR.55	2 1/2"	2"	64"
		3,460 lbs.	≤ 12'-0"	14'-0"	W16x77	W16x67	48"Ø	11'-9"	8-#8	#4 @ 6° o.c.	1 1/2"	24"	30"	3/8"	(4) - 1/2"Ø	F1554 - GR.55	3"	2"	64"
24'-0"	X	4,610 lbs.	≤ 16'-0"	14'-0"	W16x77	W16x67	48"Ø	11'-9"	8-#8	#4 @ 6° o.c.	1 1/2"	24"	30"	3/8"	(4) - 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 1/2"	24"	30"	3/8"	(6) - 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) - 1/2"Ø	F1554 - GR.105	3"	2"	64"
28'-0"	X	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"	F1554 - GR.105	4"	2"	64"
		2,600 lbs.	≤ 8'-0"	14'-0"	W14x43	W14x43	42"Ø	10'-0"	8-#7	#4 @ 45° o.c.	1 1/2"	24"	24"	3/8"	(4) - 1/2"Ø	F1554 - GR.55	2 1/2"	2"	64"
		4,940 lbs.	≤ 12'-0"	14'-0"	W16x61	W16x61	48"Ø	11'-3"	8-#8	#4 @ 6° o.c.	1 1/2"	24"	30"	3/8"	(4) - 1/2"Ø	F1554 - GR.55	3"	2"	64"
28'-0"	X	5,380 lbs.	≤ 16'-0"	14'-0"	W16x77	W16x67	48"Ø	12'-9"	12-#8	#4 @ 6° o.c.	2"	24"	30"	3/8"	(6) - 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) - 1/2"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"	F1554 - GR.105	4"	2 1/2"	64"
28'-0"	X	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"	F1554 - GR.105	4"	2 1/2"	64"

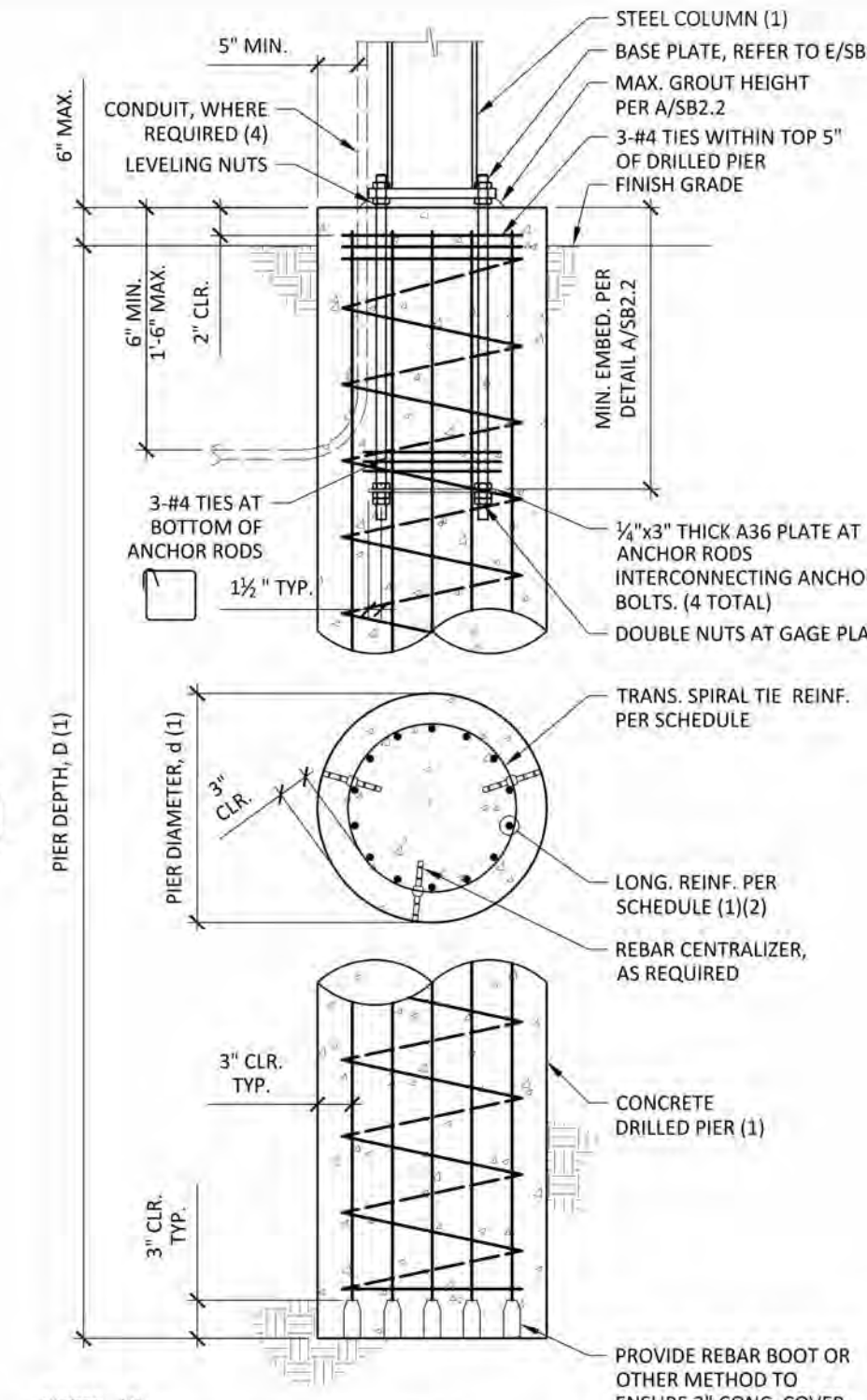
NOTES: (R)  
 1. CONTRACTOR OPTION TO PROVIDE TIES OR SPIRAL REINFORCING. SEE C/SB2.2 FOR THE OPTION. SEE D/SB2.2 FOR SPIRAL OPTION.  
 2. CONTRACTOR IS RESPONSIBLE FOR CASING PIERS AND DRILLING SEQUENCING TO PROTECT PIER EXCAVATION.

**TWO COLUMN SCOREBOARD INSTALLATION**

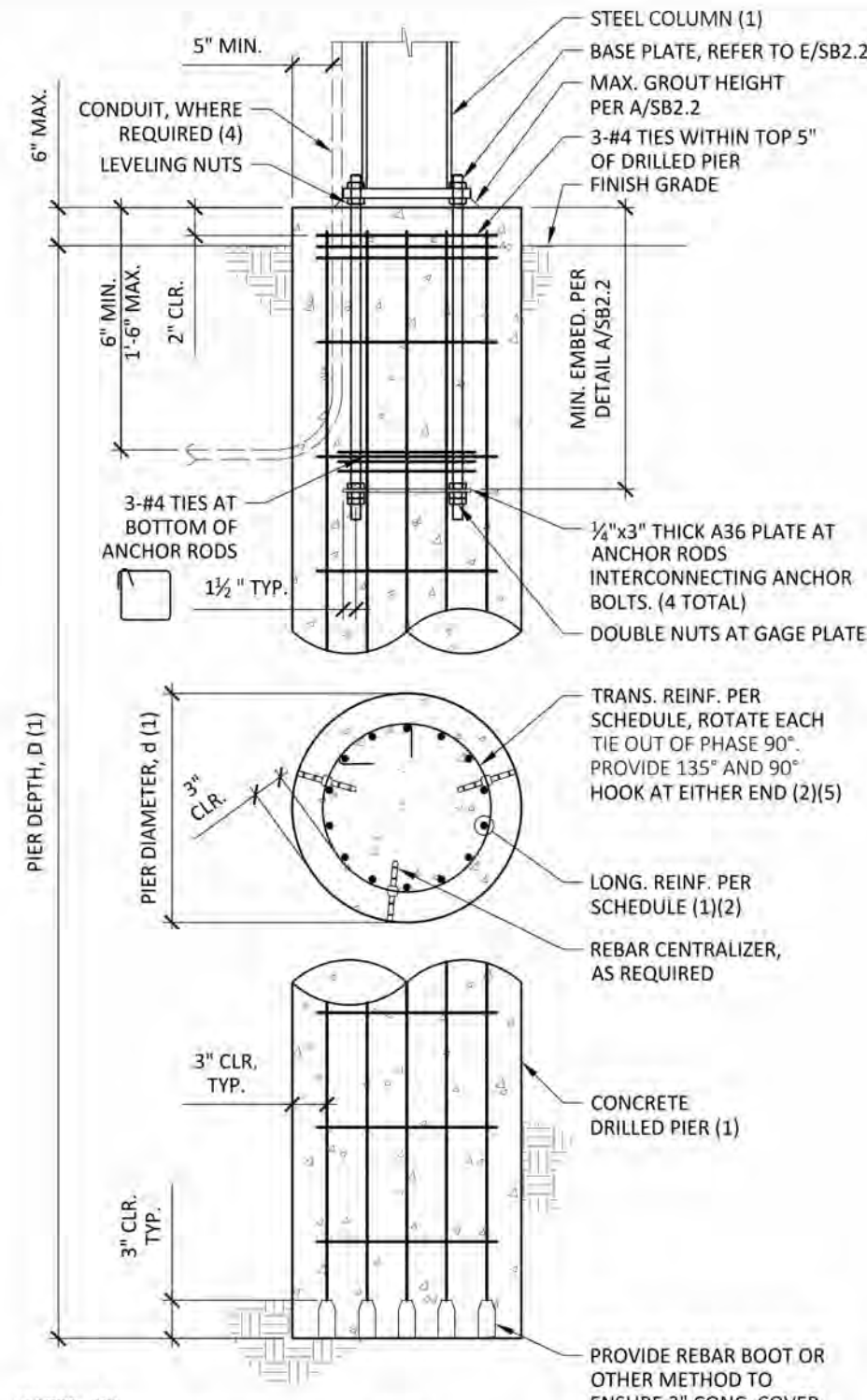
N.T.S.



NOTES: (R)  
 1. SEE SCOREBOARD ELEVATION, A/SB2.2  
**BASE PLATE**  
 N.T.S.



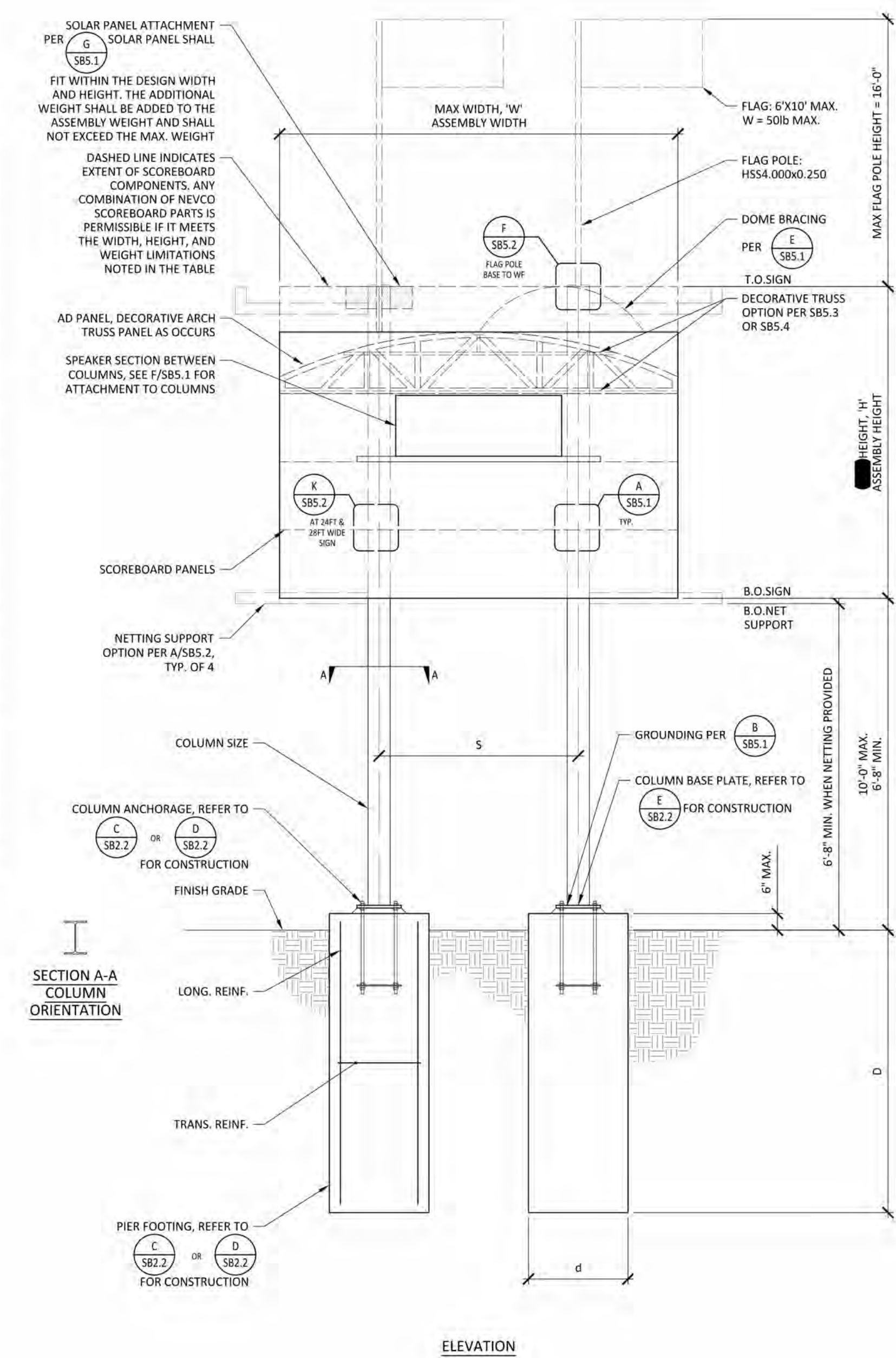
NOTES: (R)  
 1. SEE ELECTRONIC SIGN ELEVATION, A/SB2.2  
 2. SEE DETAILS B/SB2.2 FOR REINFORCEMENT REQUIREMENTS  
 3. DO NOT SPICE REINFORCEMENT  
 4. LOCATION OF CONDUIT APPROACH SHOWN GRAPHICALLY ONLY FOR REFERENCE. VERIFY ACTUAL CONDITIONS IN FIELD. (2) 2" NOMINAL CONDUIT MAX. SPACE CONDUIT 6" o.c. MIN.  
 5. THE SHALL OVERLAP TIE A MINIMUM OF 6" AND HOOK AT VERTICAL BARS. MAXIMUM OF THREE VERTICAL BAR SPACINGS BETWEEN HOOKS  
**CONCRETE DRILLED PIER**  
 N.T.S.



NOTES: (R)  
 1. SEE ELECTRONIC SIGN ELEVATION, A/SB2.2  
 2. SEE DETAILS B/SB2.2 FOR REINFORCEMENT REQUIREMENTS  
 3. DO NOT SPICE 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. THE SHALL OVERLAP TIE A MINIMUM OF 6" AND HOOK AT VERTICAL BARS. MAXIMUM OF THREE VERTICAL BAR SPACINGS BETWEEN HOOKS  
**CONCRETE DRILLED PIER**  
 N.T.S.

Bar Size	Dimension of Standard Bends		
	D	E	F (G) (F min)
#4	2'-0"	3"	3"

**TIE AND STIRRUP BENDS**  
 N.T.S.



**ELEVATION**

SSG structural engineers

NEVCO  
 301 East Harris Avenue, Greenville, Illinois 62248  
 Phone: (618) 664-0800  
 www.nevco.com

**TWO COLUMN CAISSON - BOLTED**

DATE: 08.09.2023

CHECKED: JMK

DESIGNED: MEP

SHEET NO: S23109

**SB2.2**

**LIONAKIS**

2025 Nineteenth Street  
 Sacramento CA 95818  
 P 916.558.1900 F 916.558.1919  
 www.lionakis.com

CONSULTANT

---

PROJECT  
**LUTHER BURBANK HIGH SCHOOL  
 ATHLETIC FIELDS RENOVATION**

3500 FLORIN ROAD  
 SACRAMENTO, CA 95823

CLIENT  
 SACRAMENTO CITY UNIFIED SCHOOL DISTRICT

5735 47TH AVENUE, SACRAMENTO, CA 95824

---

ISSUED

MARK	DATE	DESCRIPTION
	12/01/2023	BID SET - NOT DSA APPROVED

---

MANAGEMENT

LIONAKIS PROJECT NO: 023041  
 DSA APPLICATION NO: 02-121593  
 CLIENT PROJECT NO:  
 COPYRIGHT: LIONAKIS 2022

---

TITLE  
**TWO COLUMN CAISSON  
 - BOLTED**

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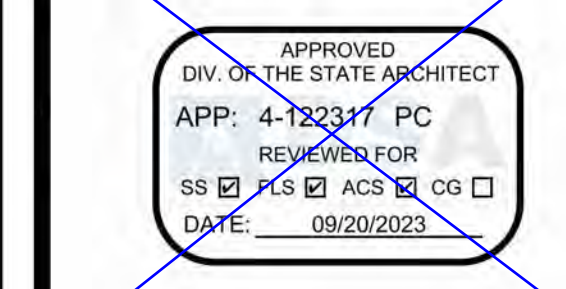
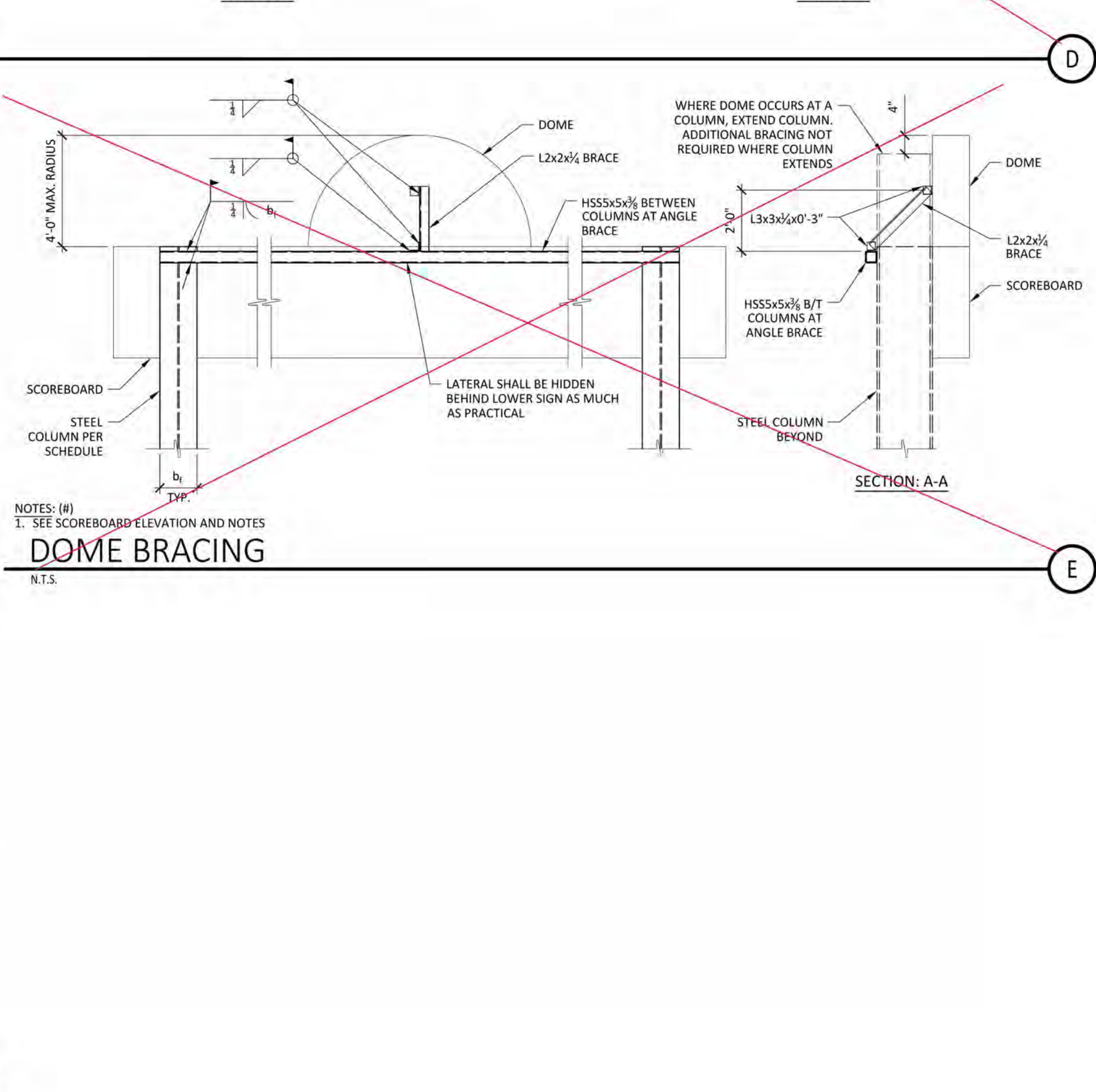
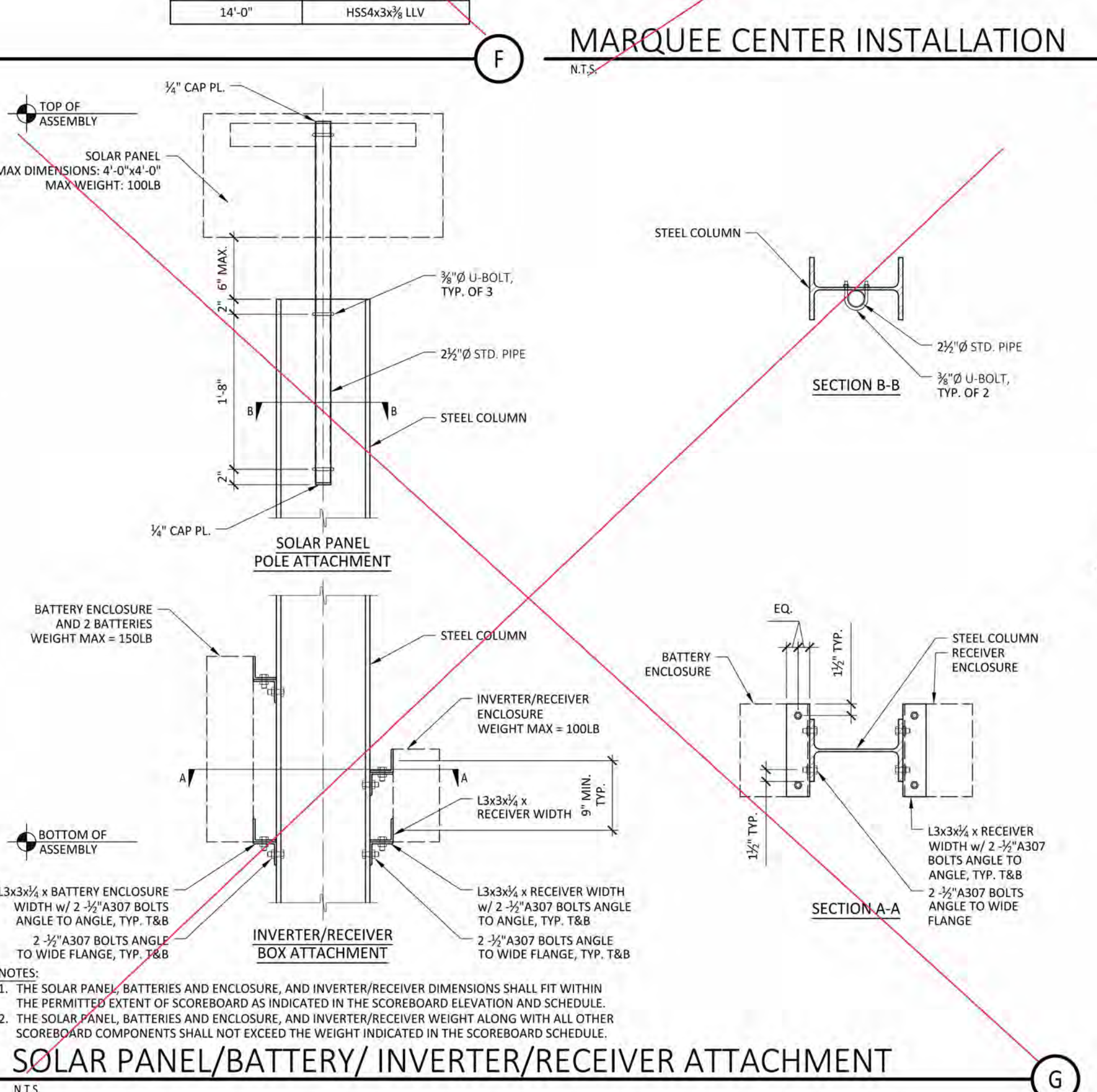
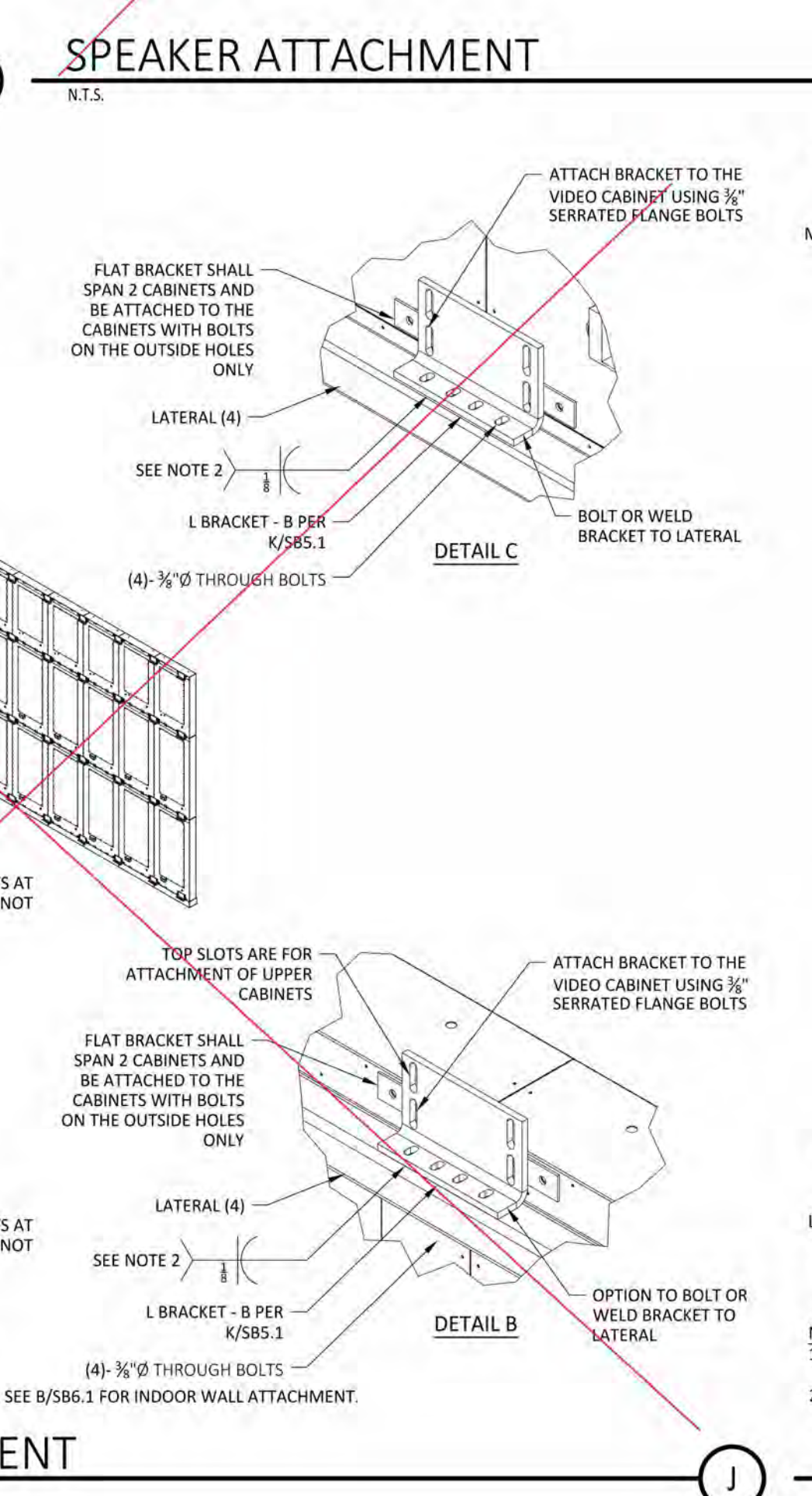
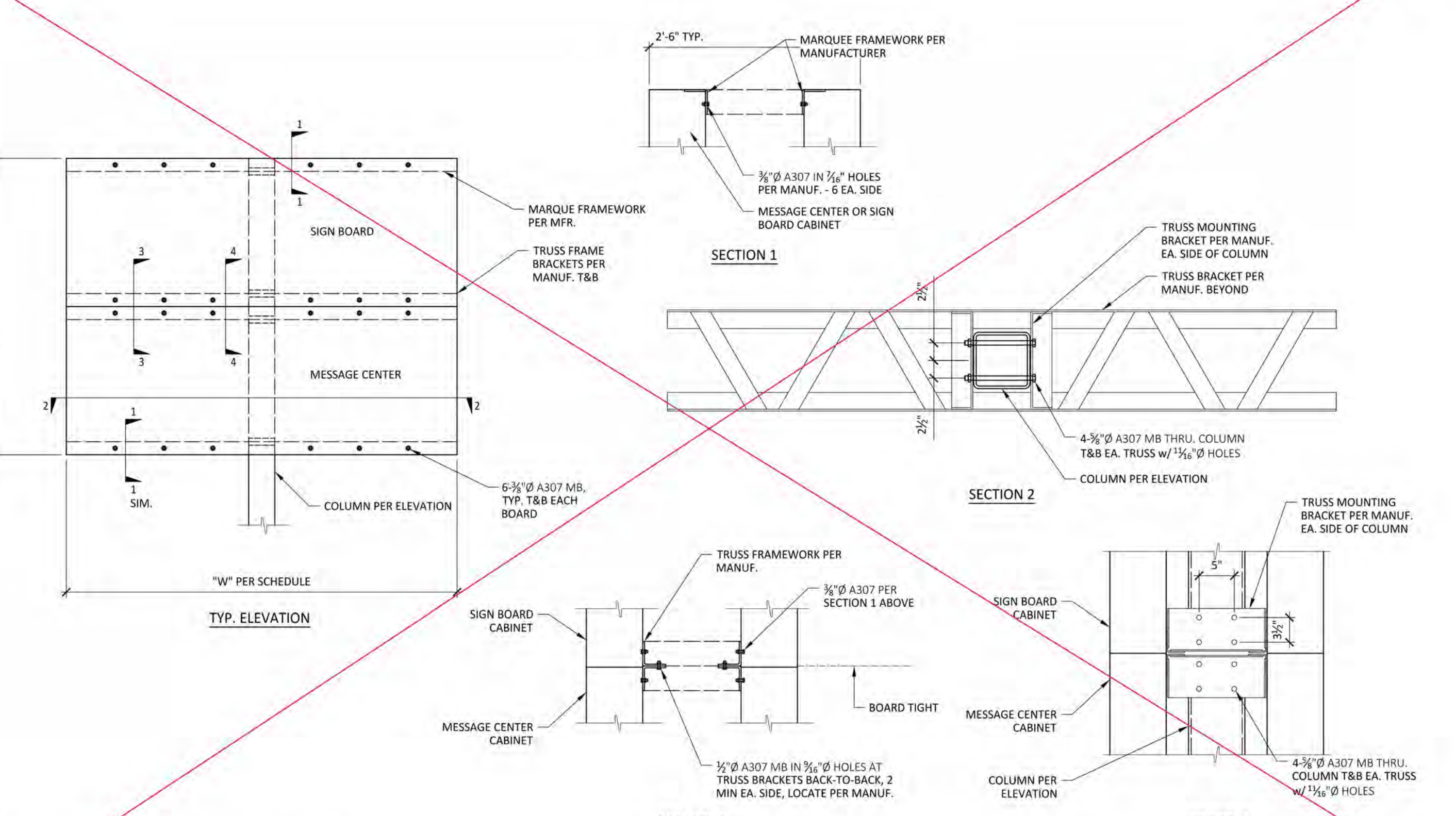
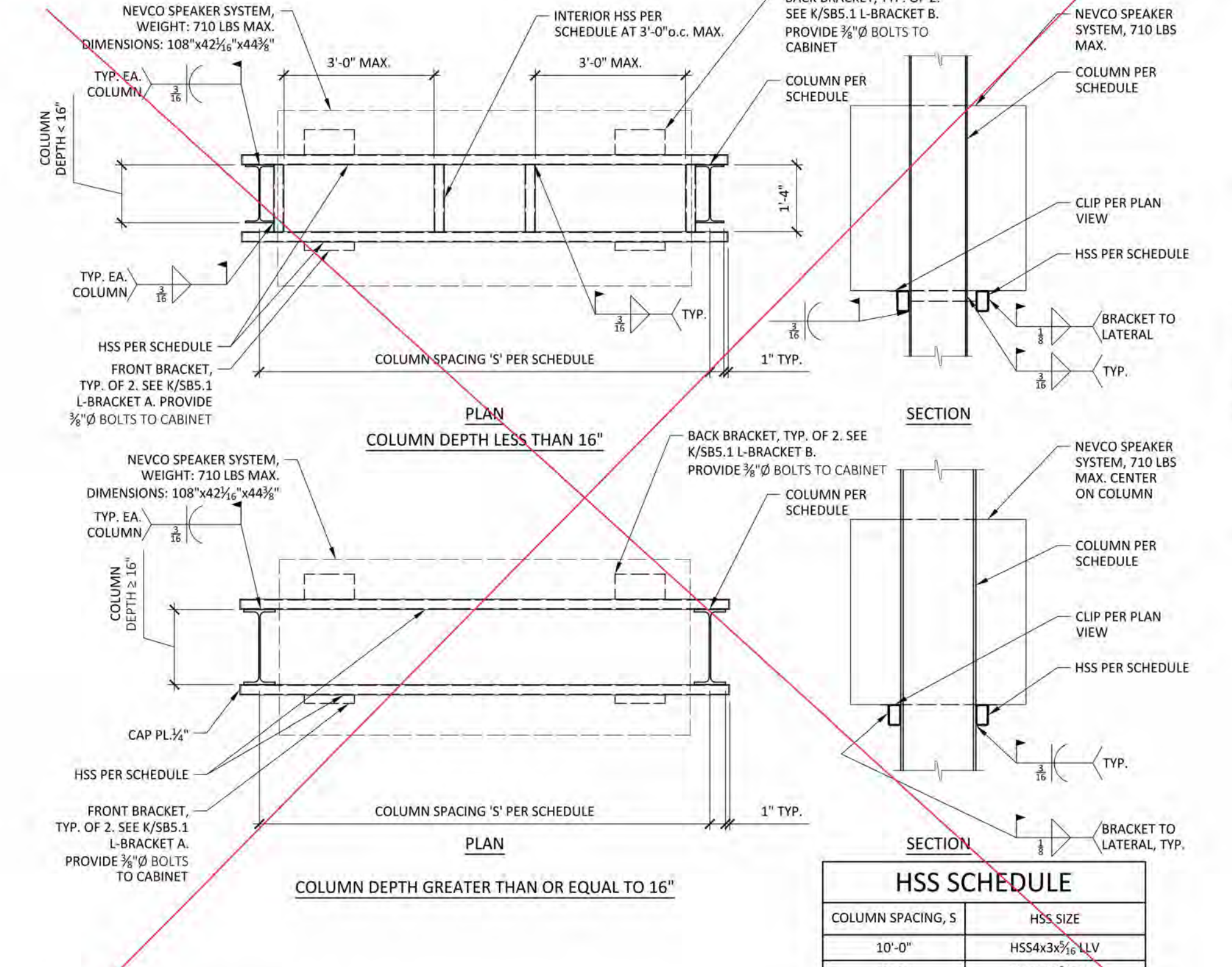
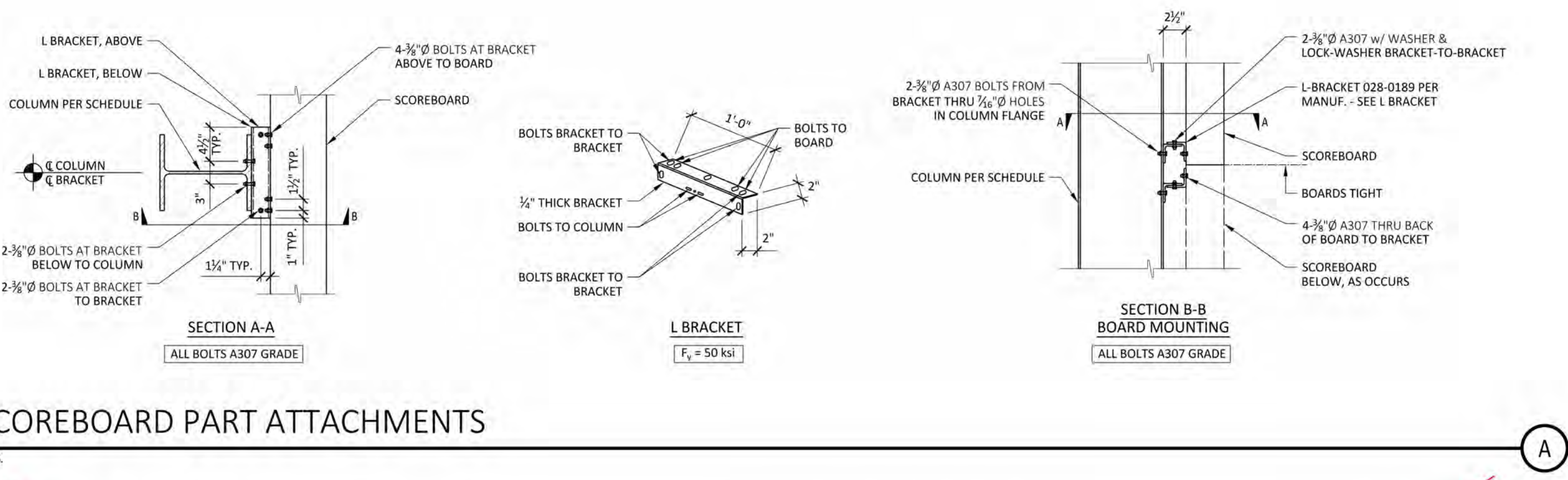
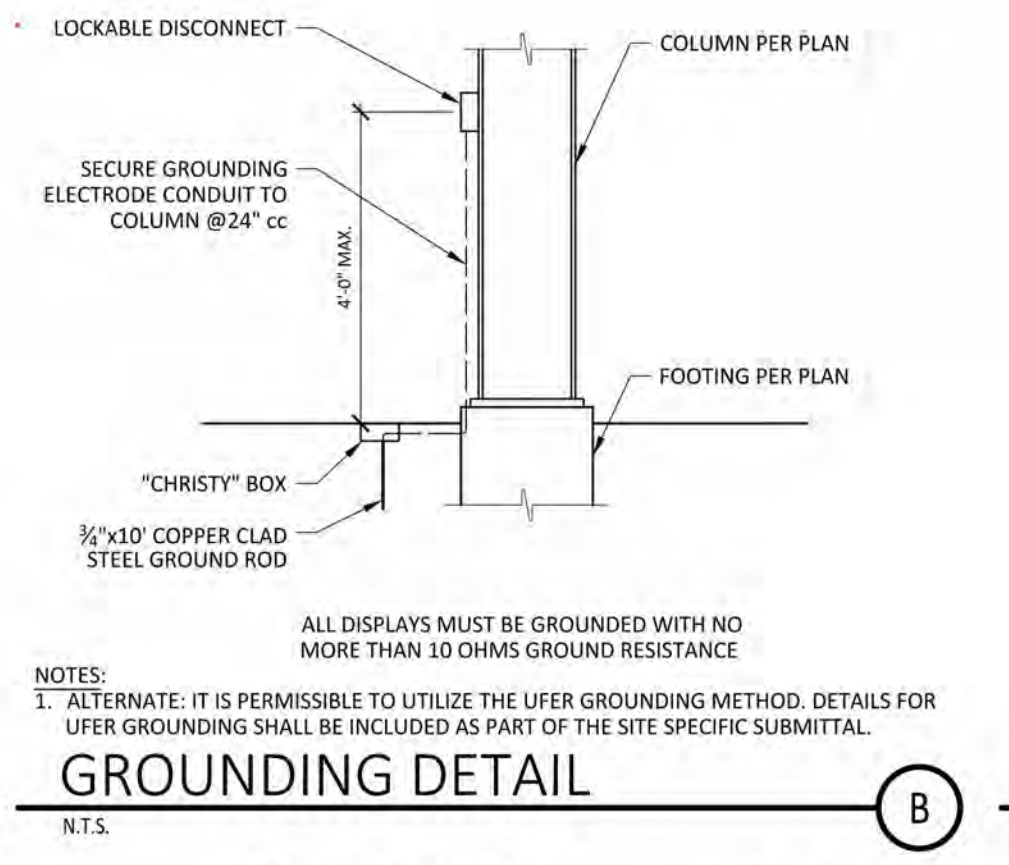
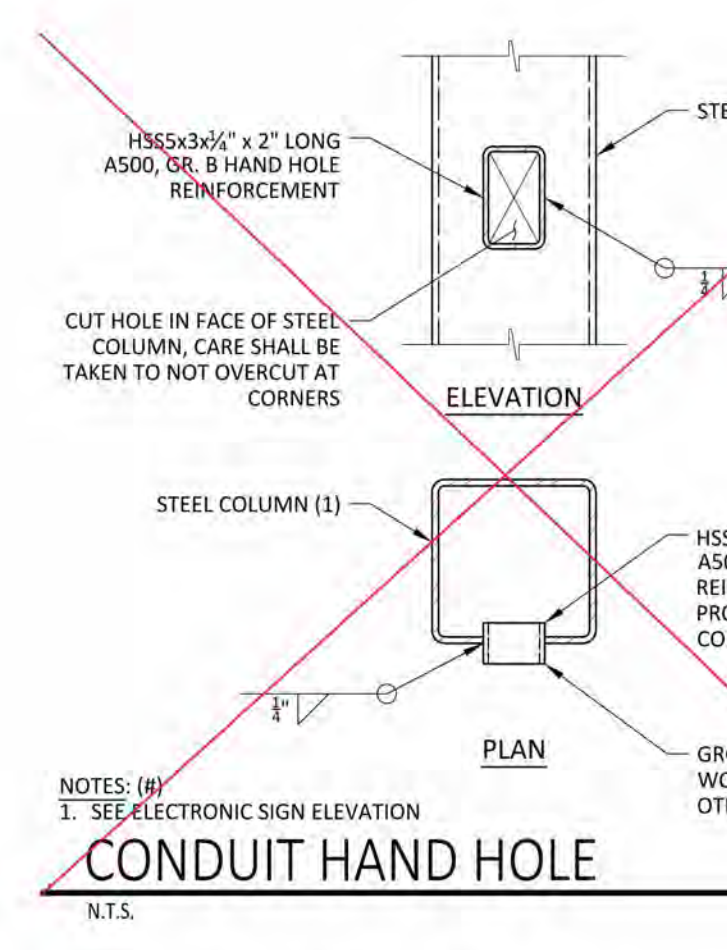
SHEET  
**SB2.2**



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11/09/2023 3:30:04 PM

0.125" = 1'



PRE-CHECK (PC) DOCUMENT CODE: 2022  
A separate project application for construction is required.

**ATTACHMENT DETAILS**

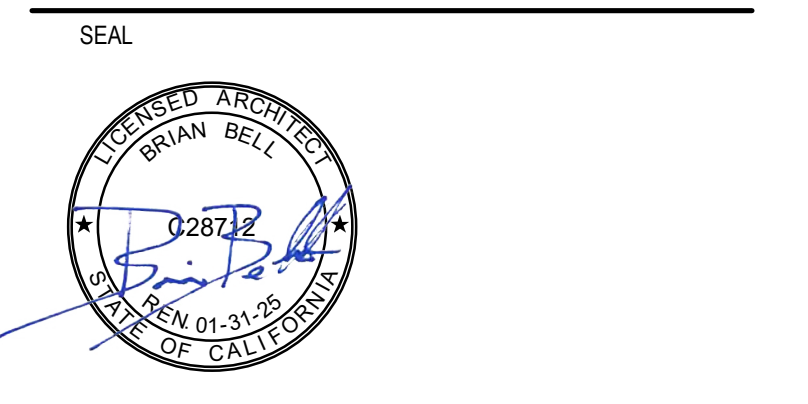
SHEET INFORMATION

DATE	08.09.2023
DRAWN	JMK
CHECKED	MEP
S&G JOB #	S23109
SHEET	<b>SB5.1</b>

**LIONAKIS**

2025 Nineteenth Street  
Sacramento CA 95818  
P 916.558.1900 F 916.558.1919  
www.lionakis.com

CONSULTANT



PROJECT  
**LUTHER BURBANK HIGH SCHOOL ATHLETIC FIELDS RENOVATION**

3500 FLORIN ROAD  
SACRAMENTO, CA 95823

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

ISSUED

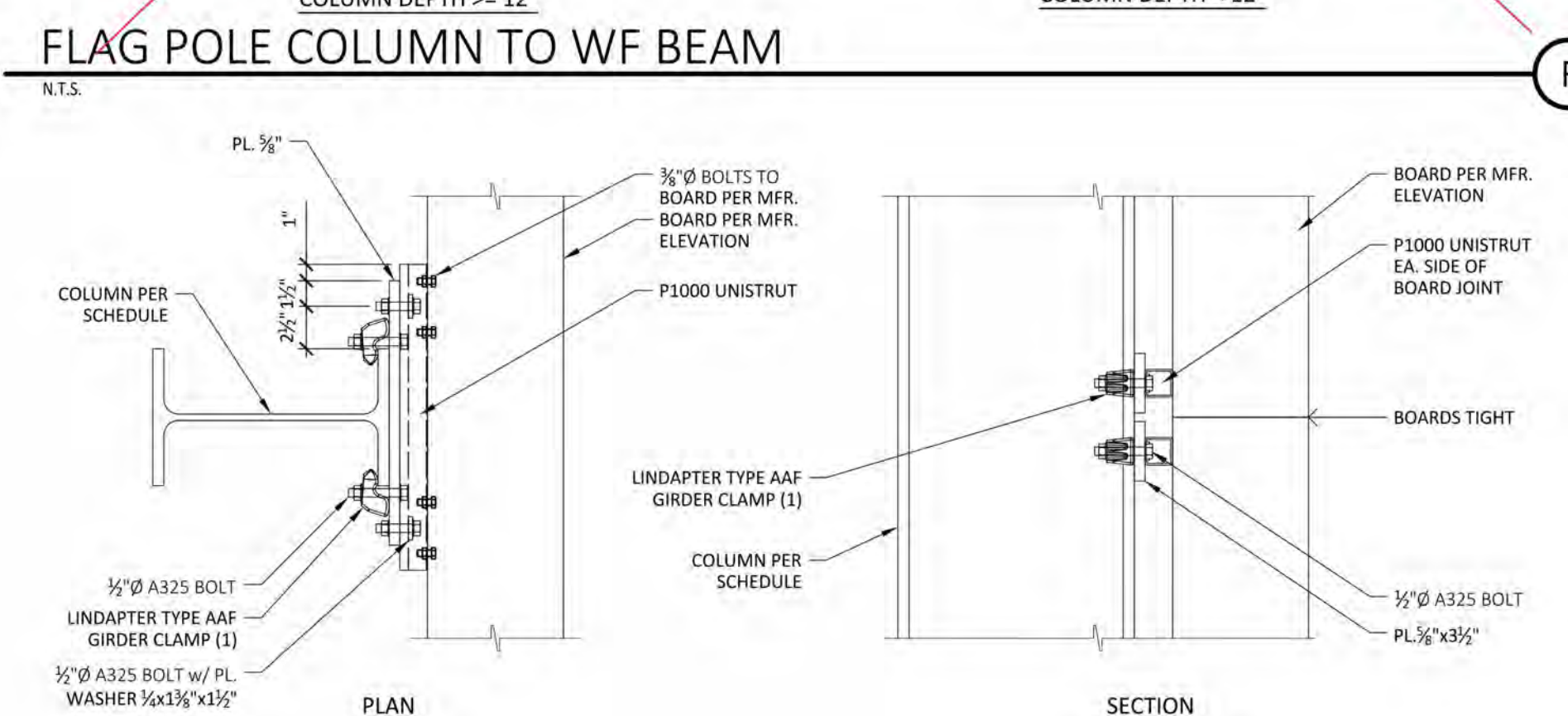
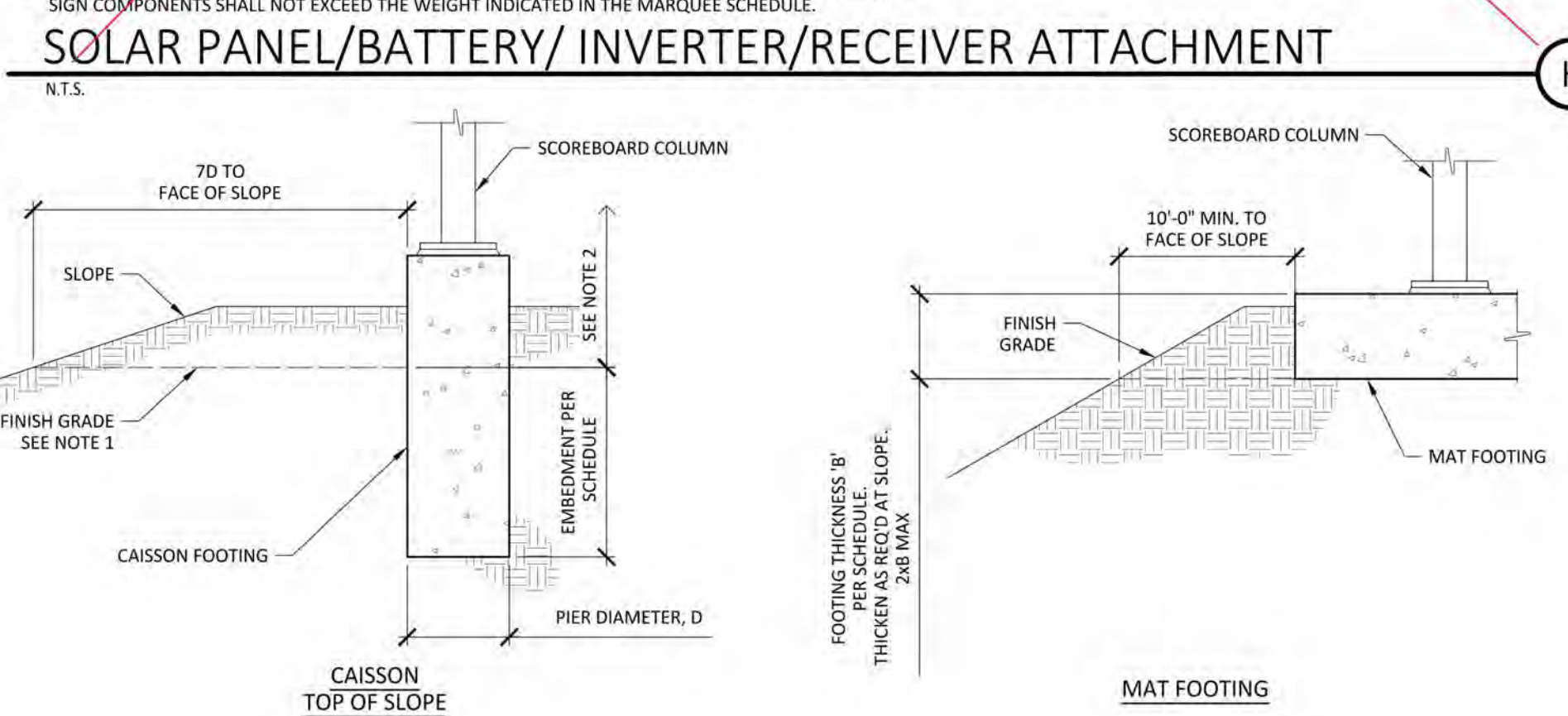
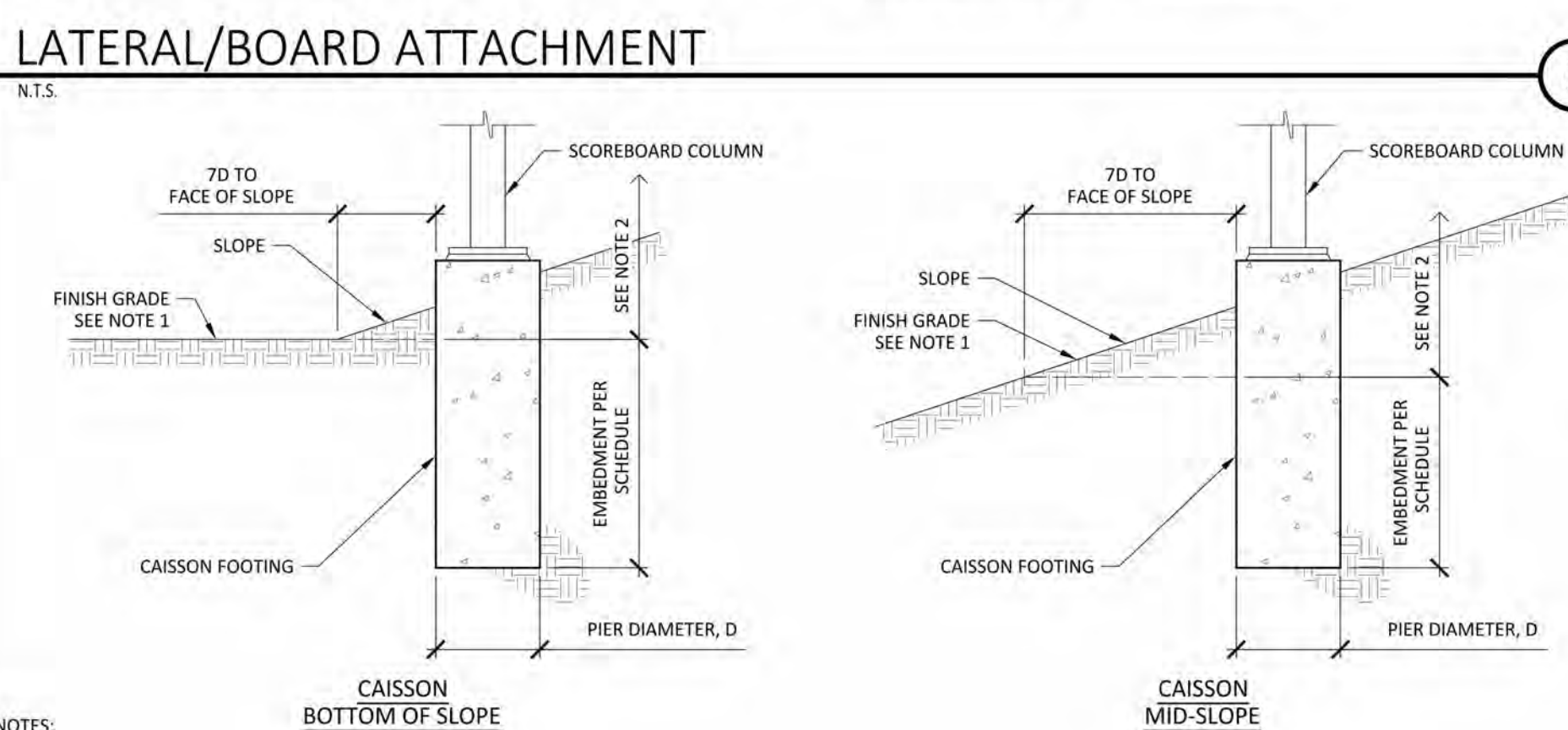
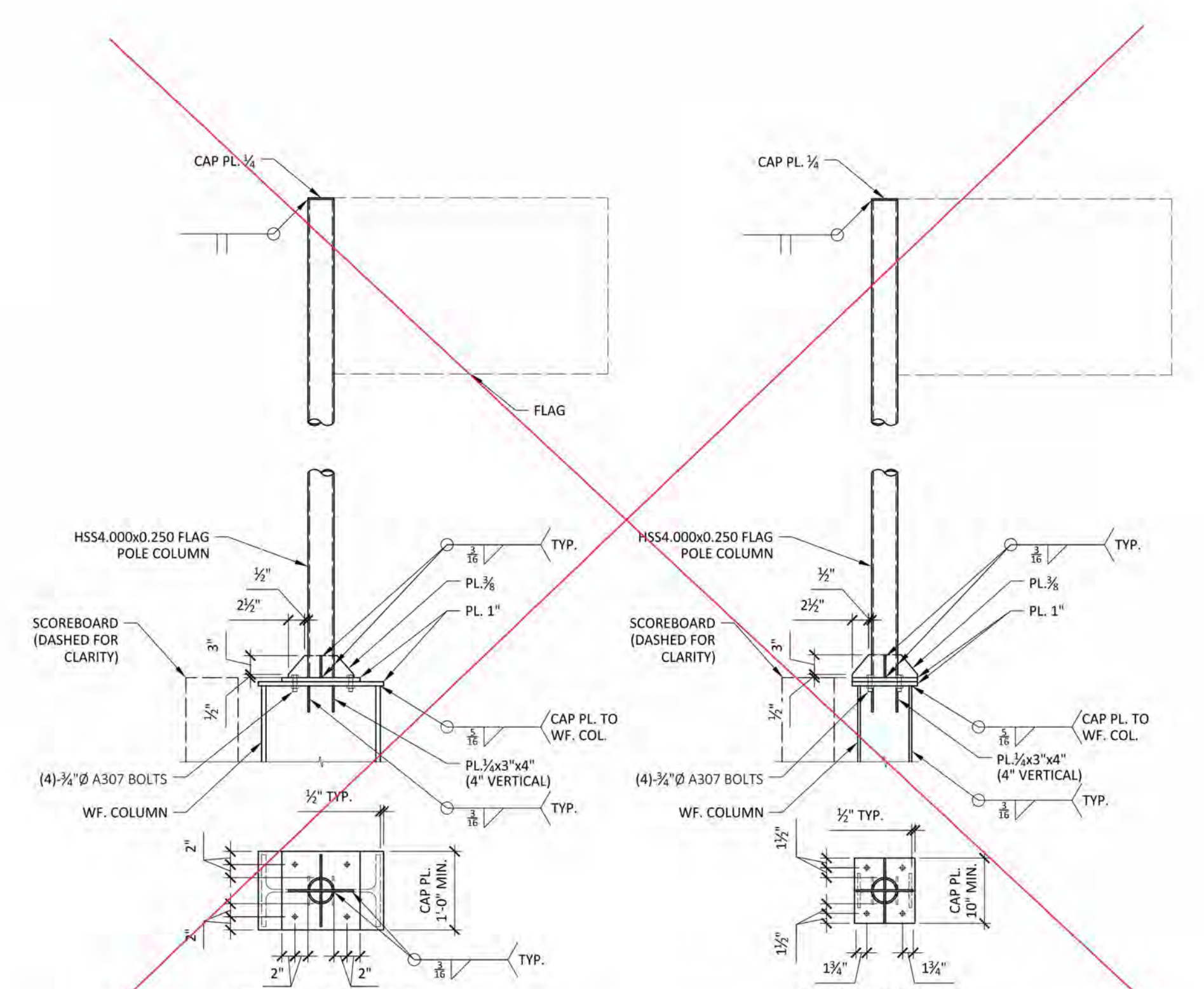
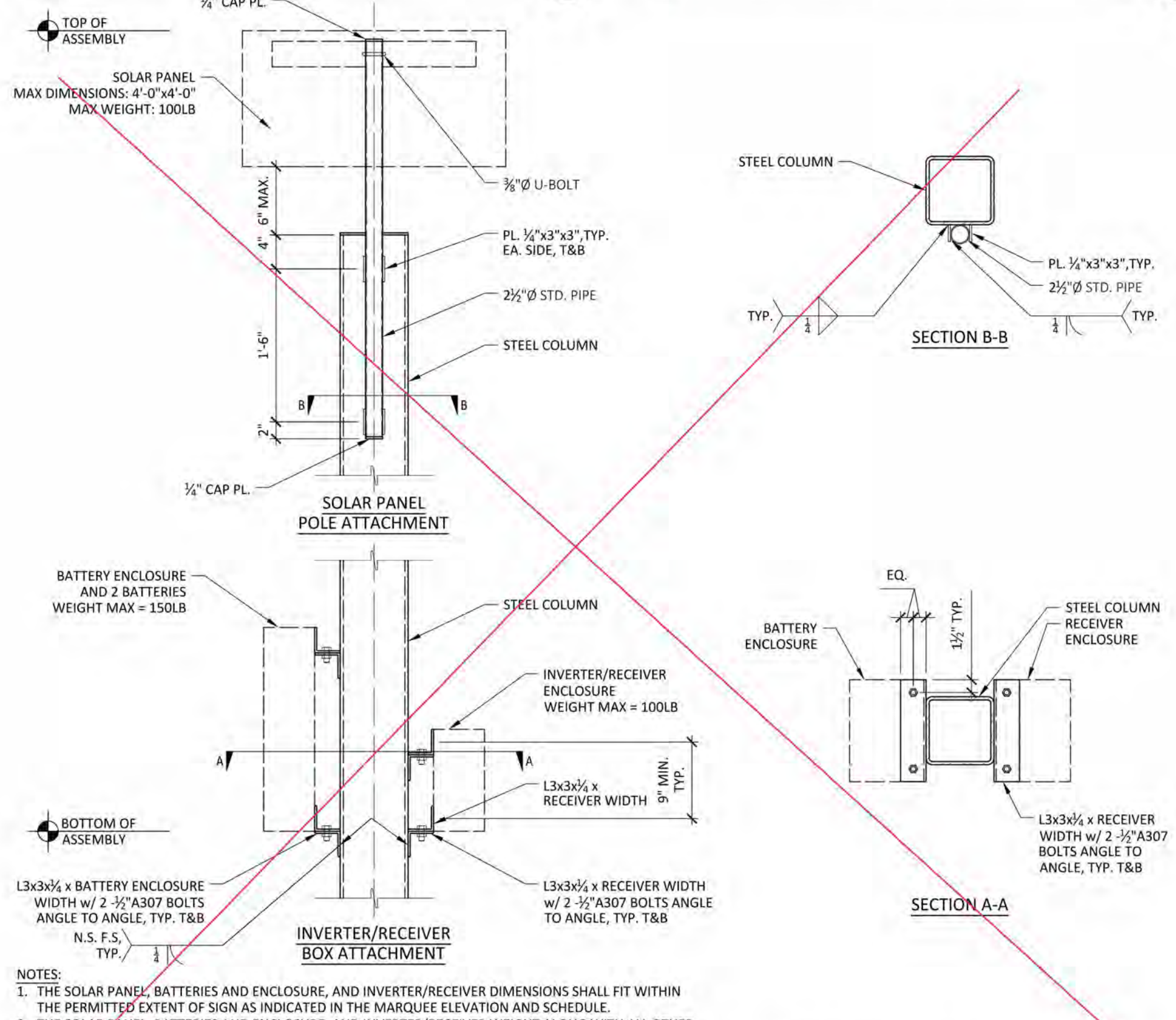
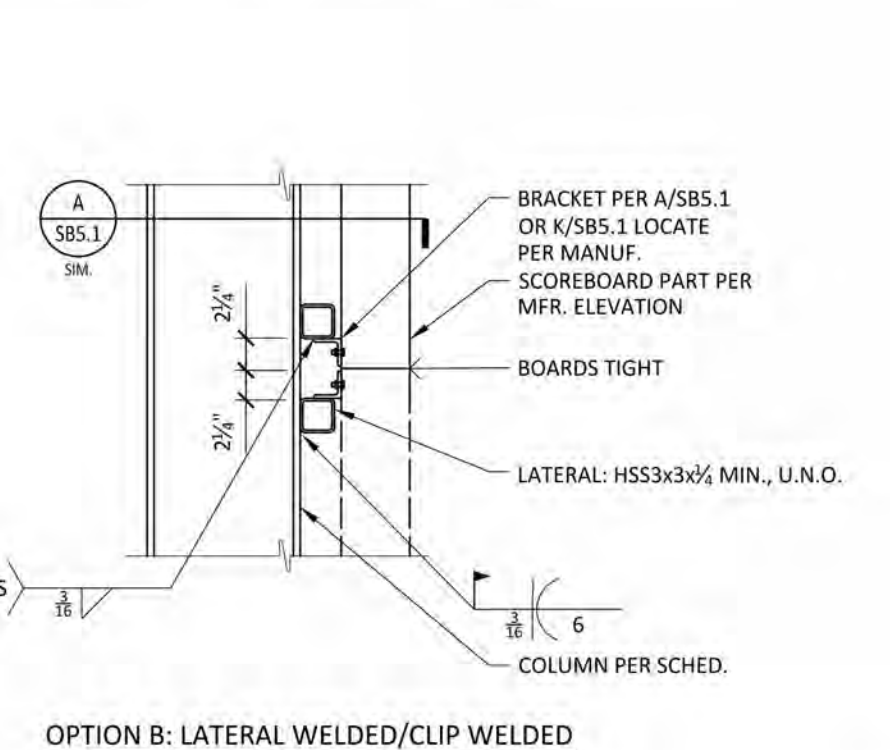
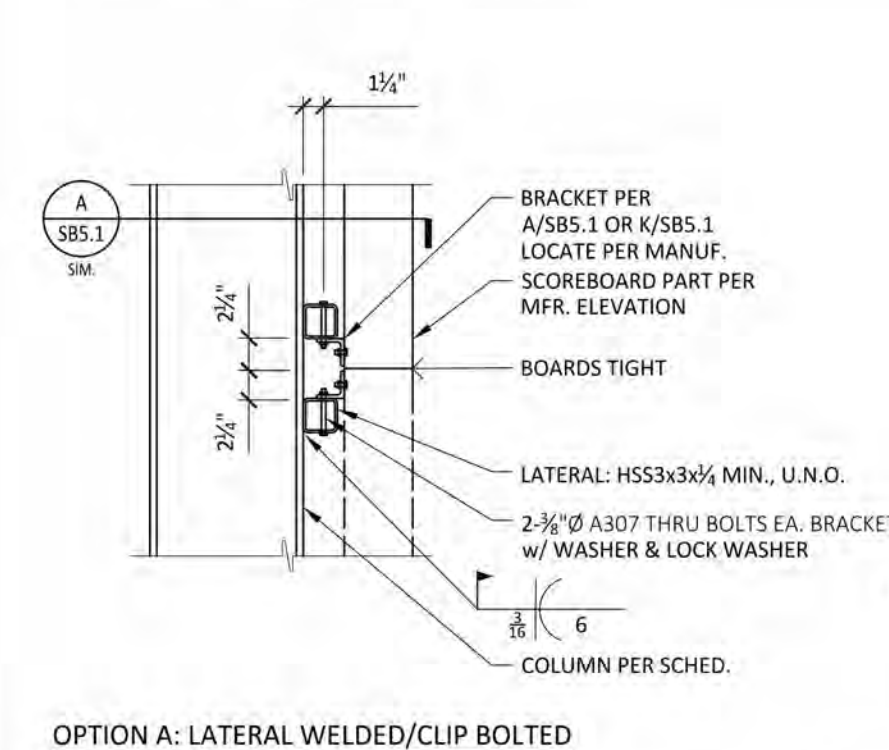
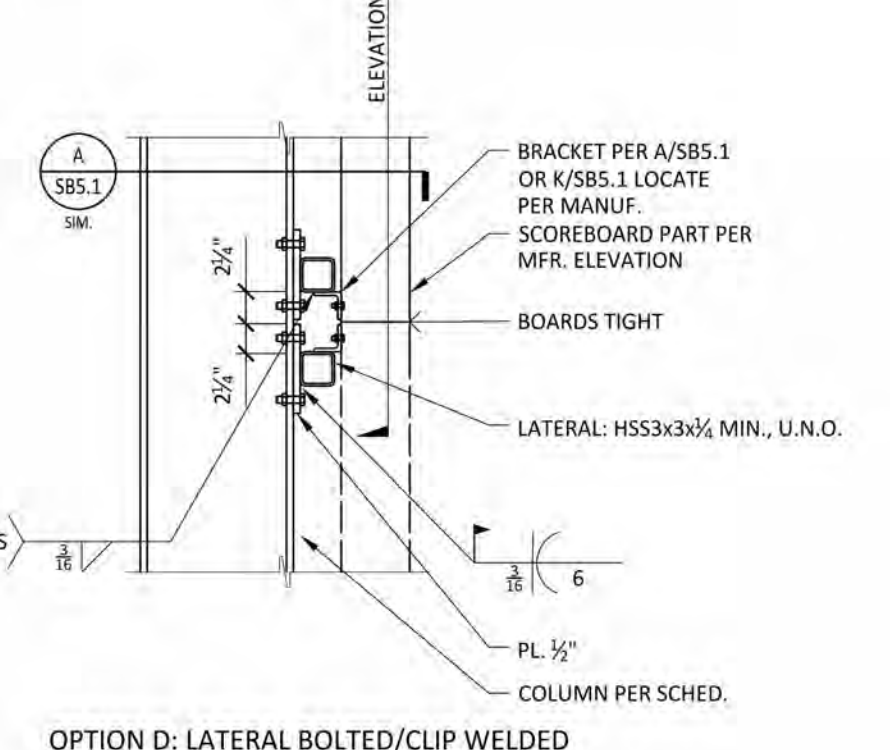
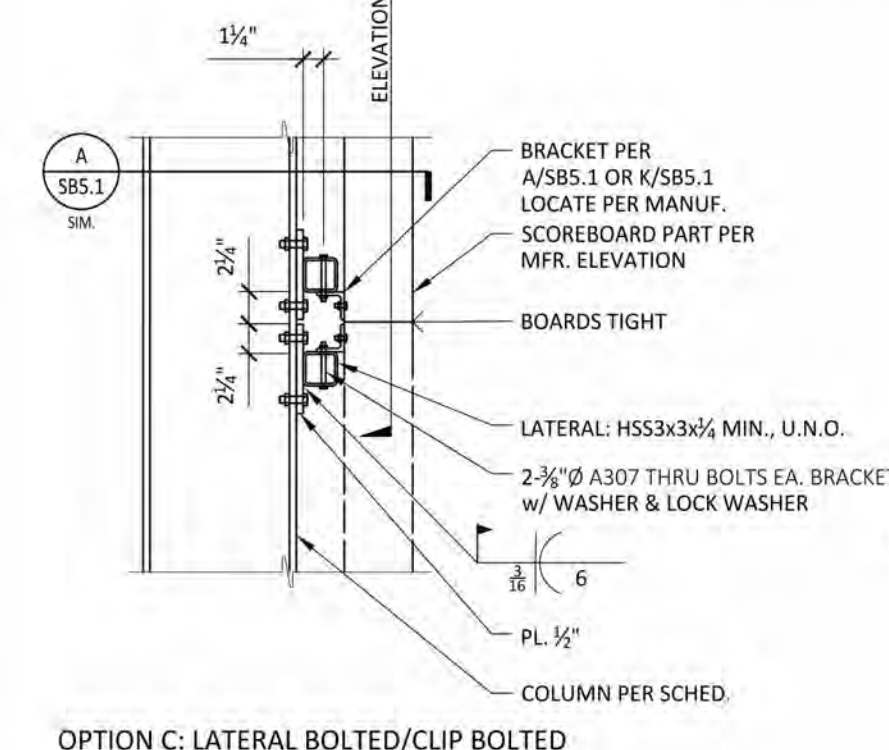
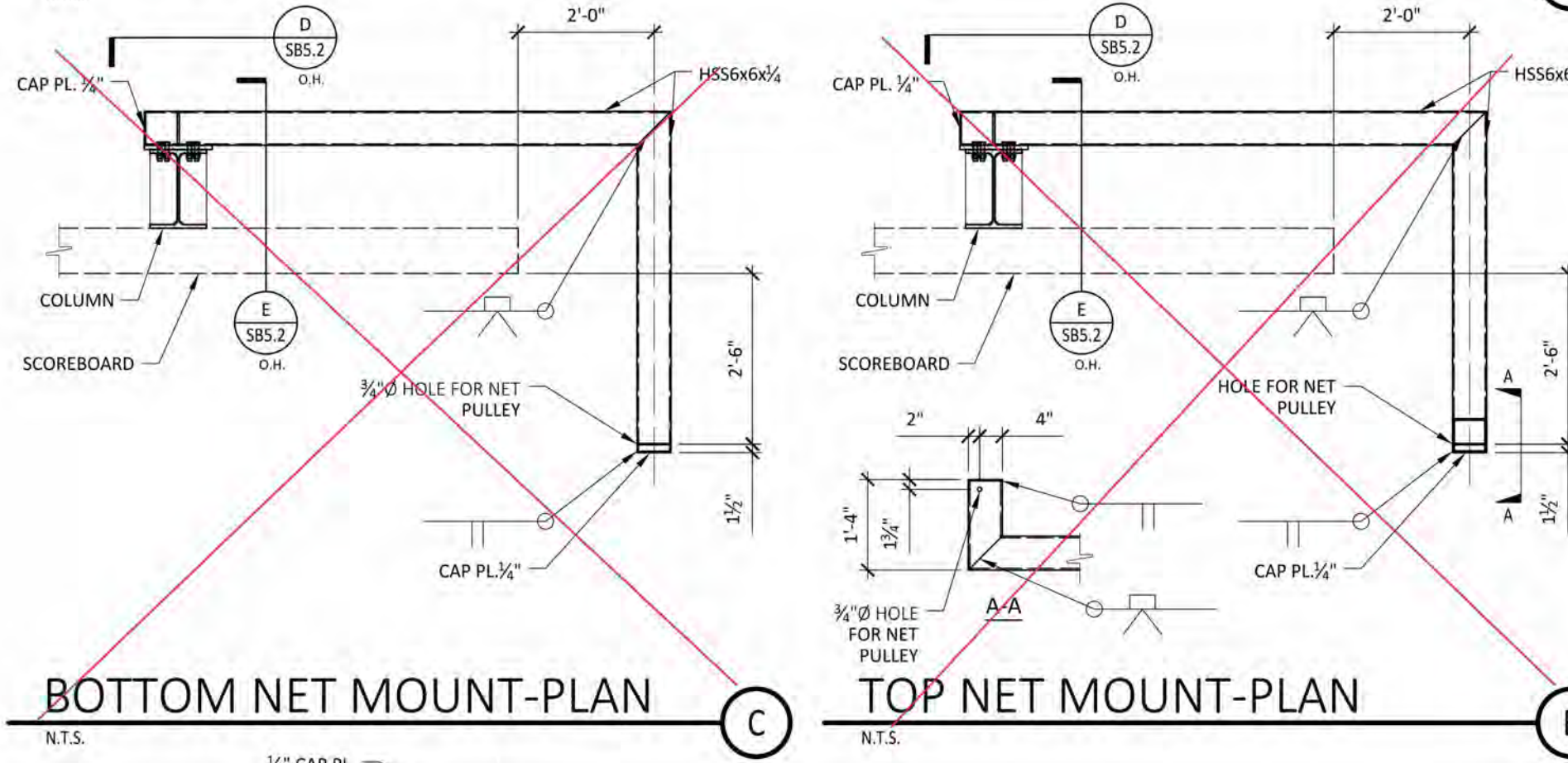
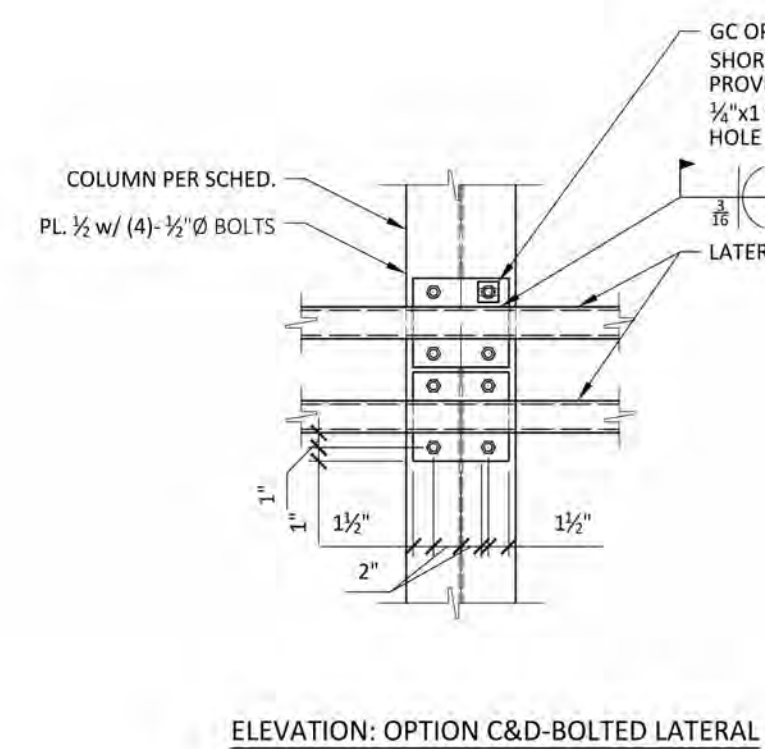
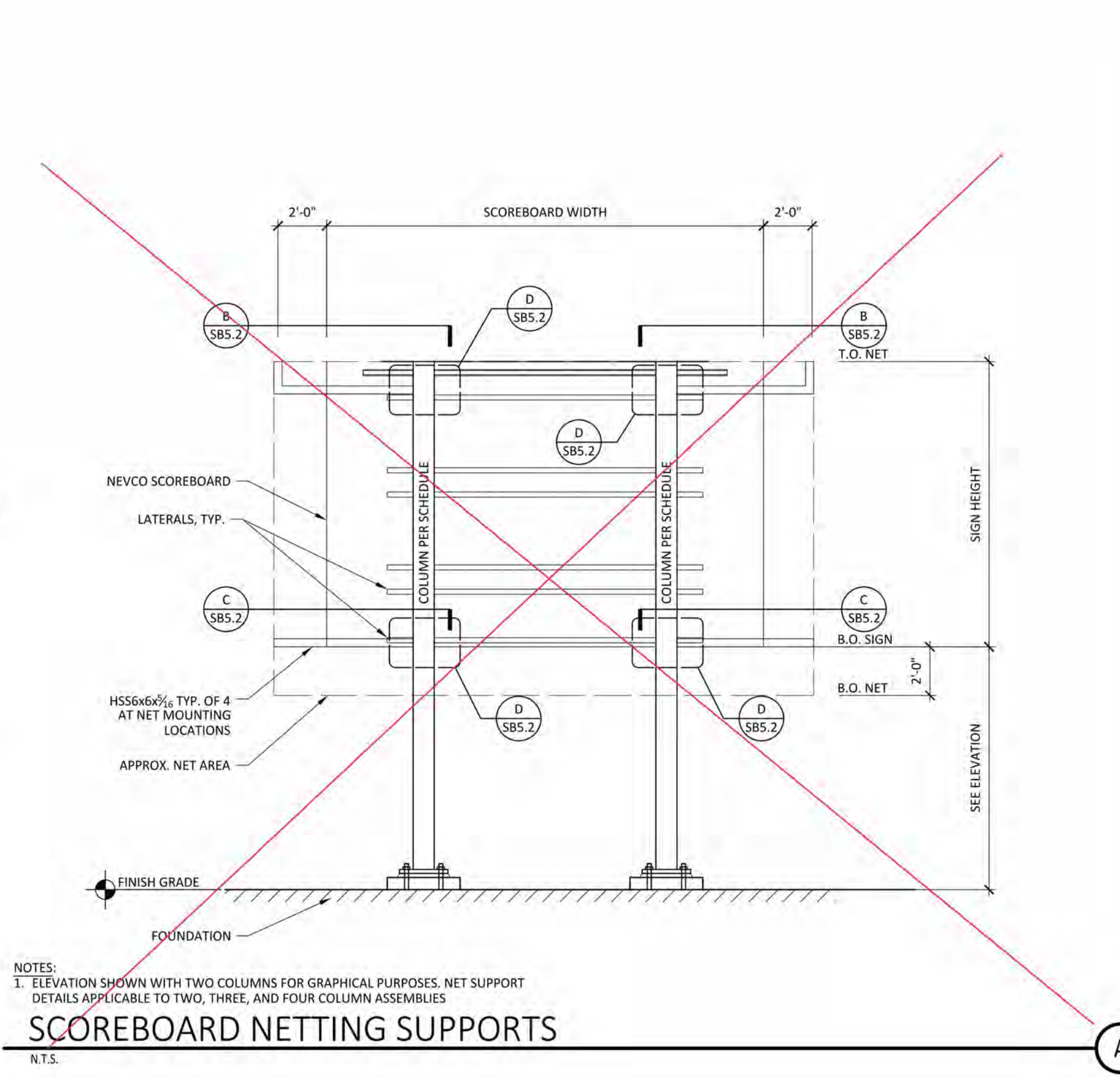
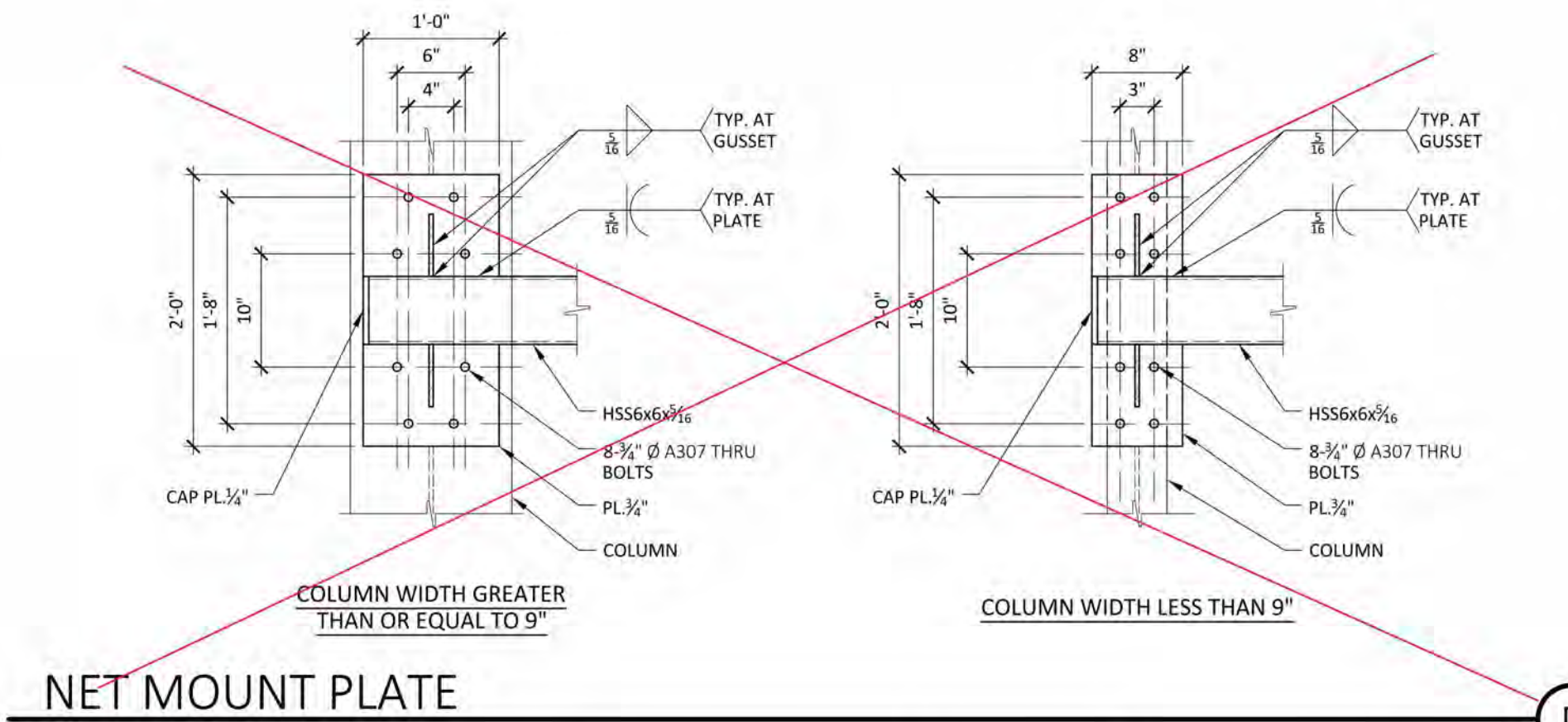
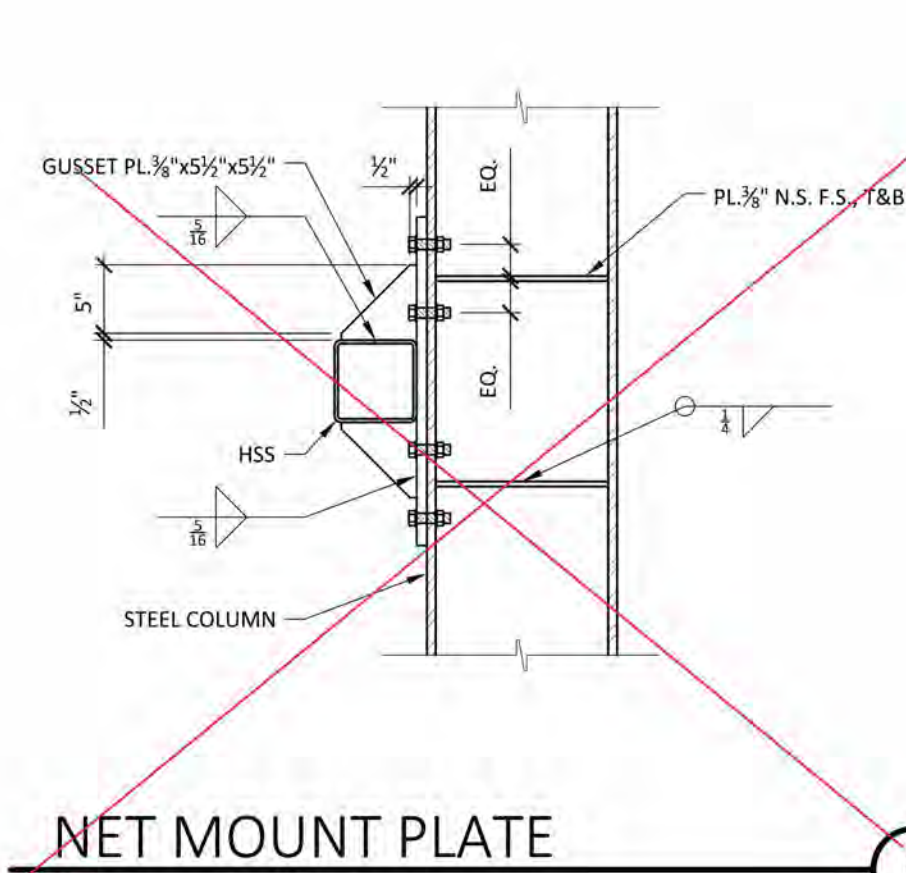
MARK	DATE	DESCRIPTION
	12/01/2023	BID SET - NOT DSA APPROVED

MANAGEMENT

LIONAKIS PROJECT NO.	023041
DSA APPLICATION NO.	02-121593
CLIENT PROJECT NO.	
COPYRIGHT:	LIONAKIS 2022

TITLE  
**ATTACHMENT DETAILS**

SHEET  
**SB5.1**



NOTES:  
 1. REFERENCE FINISH GRADE FOR DETERMINATION OF MAXIMUM SCOREBOARD HEIGHT.  
 2. SEE TYPICAL SCOREBOARD INSTALLATION DETAIL FOR MAXIMUM ASSEMBLY HEIGHT AND CLEARANCE TO BOTTOM OF SCOREBOARD.

**DISTANCE TO SLOPE**

N.T.S.

NOTES (B)  
 1. LARF500 CLAMP WITH ROCKING WASHER - INSTALL PER ICC ESR-3976

**ALTERNATE BOARD ATTACHMENT**

N.T.S.

**SSG**  
 structural engineers

REGISTERED PROFESSIONAL ENGINEER  
 No. 5405  
 STRUCTURAL  
 STATE OF CALIFORNIA  
 08/09/2023

**NEVCO**  
 301 East Harris Avenue, Greenville, Illinois 62246  
 Phone: (618) 664-0380  
 www.nevco.com

APPROVED  
 DIV. OF THE STATE ARCHITECT  
 APP: 4-122377 PC  
 REVIEWER FOR  
 SS ID PLS ED AND CC  
 DATE: 09/20/2023

PRE-CHECK (PC) DOCUMENT  
 CODE: 2022

A separate project application  
 for construction is required.

MARK	DATE	DESCRIPTION
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MANAGEMENT  
 LIONAKIS PROJECT NO.: 023041  
 DSA APPLICATION NO.: 02-121593  
 CLIENT PROJECT NO.:  
 COPYRIGHT: LIONAKIS 2022

**OPTIONAL SCOREBOARD  
 FEATURE ATTACHMENT  
 DETAILS**

DATE: 08.09.2023  
 DRAWN: JMK  
 CHECKED: MEP  
 SNO JOB #: S23109  
 SHEET: SB5.2

**LIONAKIS**  
 2025 Nineteenth Street  
 Sacramento CA 95818  
 P 916.558.1900 F 916.558.1919  
 www.lionakis.com

CONSULTANT

SEAL  
 REGISTERED PROFESSIONAL ARCHITECT  
 No. 02872  
 STATE OF CALIFORNIA  
 08/09/2023

PROJECT  
**LUTHER BURBANK HIGH SCHOOL  
 ATHLETIC FIELDS RENOVATION**

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CLIENT  
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 5735 47TH AVENUE, SACRAMENTO, CA 95824

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**OPTIONAL SCOREBOARD  
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DATE: 08.09.2023  
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 SNO JOB #: S23109  
 SHEET: SB5.2

TITLE  
**OPTIONAL  
 SCOREBOARD  
 FEATURE ATTACHMENT  
 DETAILS**

SHEET  
**SB5.2**