

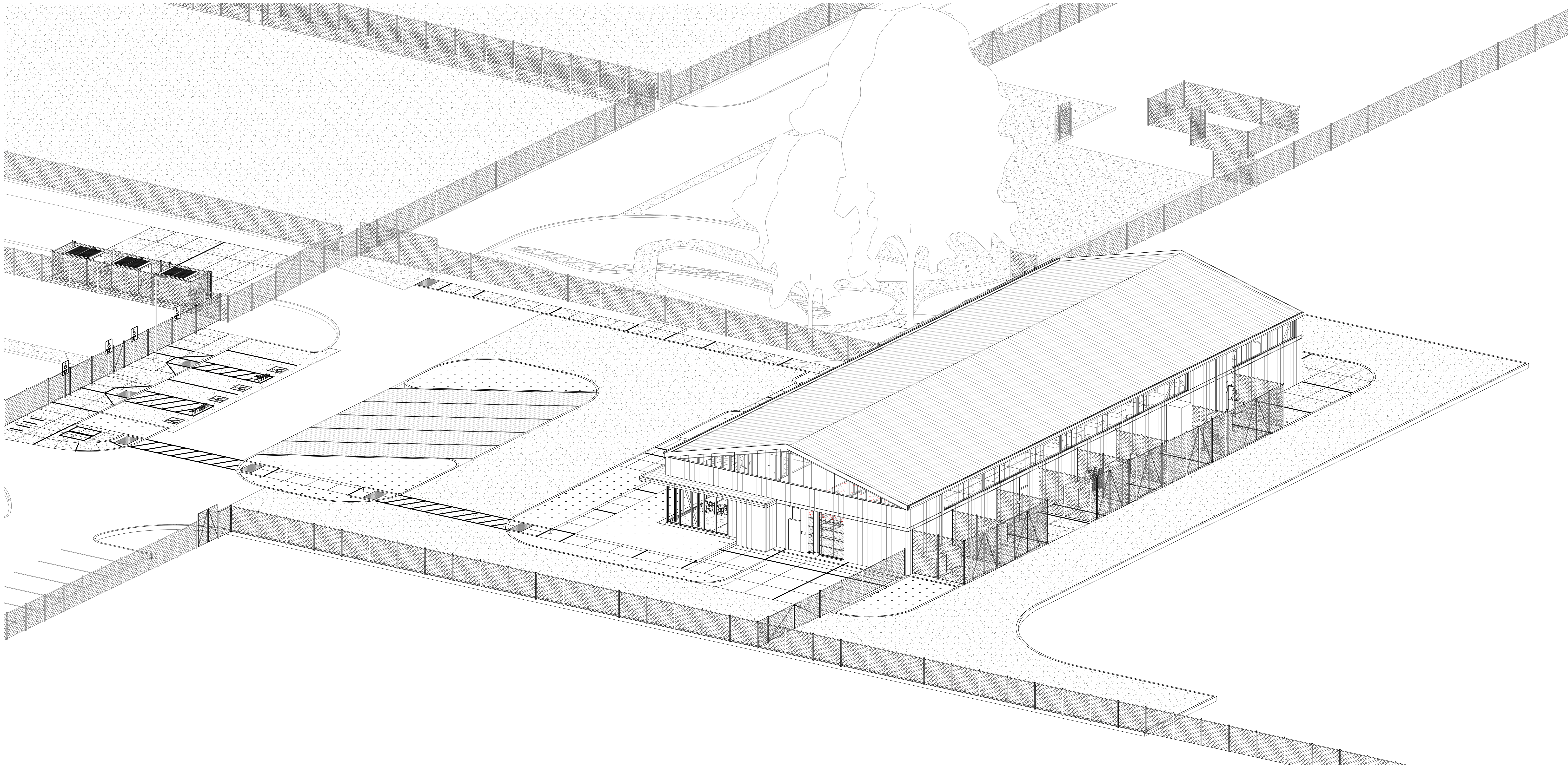
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TRACY UNIFIED SCHOOL DISTRICT

MERRILL F WEST HS AGRICULTURE CTE BLDG

INCREMENT 1

1775 W LOWELL AVE
TRACY, CA 95376



AGENCY
APPROVAL:



HMC
Architects
3595-002-100

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

PROJECT TEAM

OWNER
TRACY UNIFIED SCHOOL DISTRICT
1875 W LOWELL AVENUE, TRACY, CA 95376
(209) 830-3200

ARCHITECT
HMC ARCHITECTS
2101 CAPITOL AVENUE, SACRAMENTO CA 95816
(916) 368-7990

CIVIL ENGINEER
WARREN CONSULTING ENGINEERS
1117 WINDFIELD WAY STE 110, EL DORADO HILLS, CA 95762
(916) 985-1870

MECHANICAL, ELECTRICAL & PLUMBING ENGINEER
**OPTIMIZED ENERGY & FACILITIES
CONSULTING INC**
5734 LONETREE BLVD, ROCKLIN, CA 95765
(916) 626-5518

FACILITY:
MERRILL F WEST HIGH SCHOOL
1775 W LOWELL AVE
TRACY, CA 95376

PROJECT:
MERRILL F WEST HS AGRICULTURE CTE BLDG
INCREMENT 1

SHEET NAME:
COVER SHEET

PROGRESS

DATE: 08/30/2024
CLIENT PROJ NO:

SHEET:

G0.11

PLEASE RECYCLE

GENERAL NOTES

- CONSTRUCTION DOCUMENTS DESCRIBE THE PRODUCTS, SYSTEMS, QUANTITIES, CONFIGURATION, AND PERFORMANCE SPECIFICATIONS THAT DELIVER THE OVERALL DESIGN INTENT OF THE PROJECT. THE CONSTRUCTION DOCUMENT DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY BOTH.
- PERFORMANCE BY THE CONSTRUCTION TEAM SHALL BE CONSISTENT WITH THE CONSTRUCTION DRAWINGS AND SPECIFICATIONS AS NECESSARY TO DELIVER THE INDICATED RESULTS OF THE DESIGN INTENT.
- VERIFY ALL DIMENSIONS, LOCATIONS OF EXISTING UTILITIES, AND CONDITIONS ON THE JOB SITE PRIOR TO THE START OF WORK OR PORTIONS OF THE WORK. NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN THE ACTUAL FIELD CONDITIONS AND THE CONSTRUCTION DOCUMENTS. EXISTING CONDITIONS ARE INDICATED AS A RESULT OF FIELD OBSERVATIONS. INFORMATION SHOWN ON AVAILABLE DOCUMENTS AND FIELD CONDITIONS AT THE TIME OF PREPARATION.
- ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH ALL GOVERNING CODES, ORDINANCES, REGULATIONS AND LAWS. THE DESIGN ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS AND SCAFFOLDING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR WHERE ANY CONFLICT OCCURS BETWEEN THE REQUIREMENTS OF LAWS, CODES, ORDINANCES, RULES AND REGULATIONS, THE MOST STRINGENT SHALL GOVERN. IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS OR DETAILS ON THE DRAWINGS.
- DETAILS MARKED "TYPICAL" SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY NOTED OTHERWISE.
- ENACT ALL MEASURES TO PROTECT AND SAFEGUARD ALL EXISTING ELEMENTS TO REMAIN FROM BEING DAMAGED, REPLACE OR REPAIR EXISTING ELEMENTS DAMAGED BY THE EXECUTION OF THIS CONTRACT TO EQUAL OR BETTER CONDITION.
- PRIOR TO THE START OF WORK THE CONTRACTOR SHALL COORDINATE BETWEEN THE REQUIREMENTS OF ALL DISCIPLINES HEREIN AND BETWEEN THE REQUIREMENTS OF ALL DRAWINGS AND SPECIFICATIONS IN ORDER THAT ALL ITEMS SATISFACTORILY RELATE TO ONE ANOTHER. NOTIFY ARCHITECT IMMEDIATELY REGARDING ANY ITEMS THAT CANNOT BE COORDINATED.
- CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID EXISTING DUCTS, PIPING, CONDUIT, ETC. AND TO PREVENT HAZARD TO PERSONNEL AND/OR TO EXISTING UNDERGROUND UTILITIES OR STRUCTURES. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.
- CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH THE EXISTING OR NEW STRUCTURAL ELEMENTS SHALL NOT TO BE STARTED UNTIL THE DETAILS HAVE BEEN REVIEWED AND APPROVED BY THE ARCHITECT, AND STRUCTURAL ENGINEER OF RECORD.
- ALL WORK SHALL CONFORM TO 2022 EDITION TITLE 24, CALIFORNIA CODE OF REGULATION (CCR)
- THE LIMIT OF WORK LINE SHOWS THESE DRAWINGS IS AN APPROXIMATE LIMIT OF WORK ONLY. REFER TO CONSULTANT DRAWINGS FOR ADDITIONAL WORK INCLUDING BUT NOT LIMITED TO INSTALLATION OF CONDUIT, MANHOLES, PULL BOXES, ETC WHICH ARE TO BE PART OF THIS WORK, ALTHOUGH OCCURRING OUTSIDE OF SHOWN LIMIT OF WORK LINES.
- GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
- SAFETY DURING CONSTRUCTION SHALL COMPLY WITH CFC CHAPTER 33.
- CONTRACTOR IS TO REVIEW AND COMPLY WITH ALL REQUIREMENTS AND MITIGATION MEASURES SET FORTH IN BOTH THE ENVIRONMENTAL IMPACT REPORT (ADDENDUM TO THE ENVIRONMENTAL IMPACT REPORT) (SCH NO. 202007120) INCLUDING ATTACHED BIOLOGICAL RESOURCES TECHNICAL REPORT.
- NO DUMPING OR PLACING OF ANY DIRT OR DEBRIS SHALL BE ALLOWED OUTSIDE OF THE CONTRACTORS LIMIT OF WORK AREA.
- FABRICATION AND INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACTORS DRAWINGS, SPECIFICATIONS, AND ENGINEERING CALCULATIONS FOR THE ACTUAL SYSTEMS TO BE INSTALLED HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER AND APPROVED BY THE DSA LIST DEFERRED SUBMITTAL ITEMS FOR THIS PROJECT.
- CHANGE TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY ADDENDA OR CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY DSA, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24 CCR.
- A "DSA CERTIFIED" PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.
- INSPECTOR TO BE CLASS 1.
- A DSA ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT. THE REPORTS SHALL BE SUBMITTED TO ARCHITECT OF RECORD, STRUCTURAL ENGINEER OF RECORD, OWNER, INSPECTOR OR RECORD, AND THE DSA FIELD ENGINEER. THE REPORTS OF ANY FAILURES OF TESTS AND INSPECTIONS ARE TO BE SUBMITTED TO DSA DISTRICT STRUCTURAL ENGINEER.
- THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION, OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE DSA APPROVED CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24, CCR)

CODES

PARTIAL LIST OF APPLICABLE CODES

2022	CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
2022	CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
2022	(2021 INTERNATIONAL BUILDING CODE (IBC) VOLUMES 1 & 2 AND 2022 CALIFORNIA AMENDMENTS)
2022	CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
2022	(2020 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022	CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R.
2022	(2021 UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022	CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
2022	(2021 UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022	CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.
2022	CALIFORNIA HISTORICAL BUILDING CODE (CHBC), PART 8, TITLE 24 C.C.R.
2022	CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R.
2022	(2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)
2022	CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 C.C.R.
2022	(2021 INTERNATIONAL EXISTING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022	CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 C.C.R.
2022	CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
2019	ASME 11.1/1844-19 SAFETY CODE FOR ELEVATORS AND ESCALATORS
2020	ASME 18.1 - SAFETY STANDARD FOR PLATFORM LIFTS AND STAIRWAY CHAIR LIFTS

PARTIAL LIST OF APPLICABLE STANDARDS

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

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2022 CBC (FSM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 60.
SEE CALIFORNIA BUILDING CODE, CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO NFPA STANDARDS.

PROJECT DESCRIPTION

GENERAL DESCRIPTION OF WORK

INCREMENT 1, THIS INCREMENT:

CONSTRUCTION OF SITE WORK, FENCING, AND TRASH ENCLOSURE.

GENERAL ALTERATION OF EXISTING ACCESSIBLE PARKING.

RELOCATION OF EXISTING STORAGE CONTAINERS.

INCREMENT 2, FUTURE INCREMENT:

CONSTRUCTION OF 9700 SF AG SHOP

DEFERRED APPROVAL

NONE

EXEMPTIONS

FENCING SCOPE IS EXEMPT FROM STRUCTURAL REVIEW PER DSA IR A-22

STORAGE CONTAINER SCOPE IS EXEMPT FROM STRUCTURAL REVIEW PER DSA IR A-22

SHEET INDEX

GENERAL SHEET

- G101 COVER SHEET
- G102 PROJECT DATA SHEET
- G103 PROJECT ANALYSIS
- G110 LOCAL FIRE AUTHORITY SITE ACCESS PLAN
- G111 CODE INFORMATION AND CAMPUS SITE PLAN

CIVIL*

- C0.1 GENERAL NOTES, LEGEND AND ABBREVIATIONS
- C0.2 TOPOGRAPHIC SURVEY
- C1.1 DEMOLITION PLAN
- C2.1 ENGINEERED FILL PLAN
- C3.1 GRADING PLAN
- C4.1 UTILITY PLAN
- C4.2 UTILITY PLAN
- C5.1 STRIPING PLAN
- C6.1 EROSION & SEDIMENT CONTROL PLAN
- C6.2 EROSION NOTES AND DETAILS
- C7.1 DETAILS AND SECTIONS
- C7.2 DETAILS AND SECTIONS
- C7.3 DETAILS AND SECTIONS
- C7.4 DETAILS AND SECTIONS
- C15

ARCHITECTURE

- A1.11 PROJECT SITE PLAN
- A10.11 SITE AND GATE DETAILS
- A12

ELECTRICAL*

- E0.0 ELECTRICAL ONE-LINE DIAGRAM & GENERAL NOTES
- E1.0 ELECTRICAL SITE PLAN - EXISTING/DEMO
- E1.1 ELECTRICAL SITE PLAN - IMPROVEMENT
- E2.0 ELECTRICAL SCHEDULES & DETAILS
- E3.0 OUTDOOR LIGHTING ENERGY COMPLIANCE
- E5
- Grand total: 26

SYMBOL LEGEND

NORTH ARROW

TICK INDICATES PLAN NORTH
ARROW INDICATES TRUE NORTH

ELEVATION CALLOUT
(TYPICAL FOR EXTERIOR)

LOCATION ON SHEET
SHEET WHERE ELEVATION IS DRAWN

ELEVATION CALLOUT
(TYPICAL FOR INTERIOR)

LOCATION ON SHEET
SHEET WHERE ELEVATION IS DRAWN

ELEVATION CALLOUT - ALT.

LOCATION & SHEET WHERE ELEVATION IS DRAWN

SECTION CALLOUT

INDICATES A SIMILAR CONDITION
LOCATION ON SHEET
SHEET WHERE SECTION IS DRAWN

DETAIL CALLOUT

INDICATES A SIMILAR CONDITION
LOCATION ON SHEET
SHEET WHERE SECTION IS DRAWN

CONTROL OR DATUM POINT

NAME OF ELEVATION (IF APPLICABLE)
ELEVATION ABOVE FINISHED FLOOR

GRID BUBBLE

EXISTING BUILDING GRID SYMBOL
GRID NUMBER
NEW BUILDING GRID SYMBOL

DOOR CALLOUT

DOOR NUMBER

INTERIOR FINISH CALLOUT

MATERIAL FINISH TYPE
(SEE FINISH SCHEDULE)

WINDOW CALLOUT

WINDOW NUMBER
(SEE WINDOW SCHEDULE)

WALL TYPE CALLOUT

WALL TYPE MARK - SEE A10.11
WALL STC RATING
WALL FIRE RATING TYPE

MATCHLINE REFERENCE

LOCATION ON SHEET
SHEET WHERE PLAN IS DRAWN

KEYNOTE

KEYNOTE NUMBER (SEE LEGEND ON SHEET)

ROOM EXITING INFORMATION

AREA (SQ FT)
OCCUPANT LOAD (AREA DIVIDED BY LOAD FACTOR)
OCCUPANT LOAD FACTOR (REFER TO TABLE 1004.5)
OCCUPANCY TYPE
NUMBER OF EXITS REQUIRED (REFER TO TABLE 1006.2.1)

WIC CASEWORK TAG

MANUFACTURER REFERENCE AND MODEL NUMBER

LOCK

CABINET DEPTH
CABINET HEIGHT
CABINET WIDTH

SHEET NUMBER SYSTEM

DISCIPLINE	SHEET TYPE	BUILDING LETTER
G GENERAL	0 CODE ANALYSIS, NOTES	(USER DEFINED)
C CIVIL	1 SITE PLAN	USED ONLY IF REQUIRED IF NOT COLUMN IS OMITTED
A LANDSCAPE	2 FLOOR PLAN	
A ARCHITECTURE	3 CEILING PLAN	
I INTERIORS	4 ROOF PLAN	
S EQUIPMENT	5 EXTERIOR ELEVATIONS	
S STRUCTURAL	6 SECTIONS	
P PLUMBING	7 ENLARGED PLANS	
M MECHANICAL	8 EXTERIOR ELEVATIONS	
E ELECTRICAL	9 SCHEDULES	
FA FIRE ALARM	10 DETAILS	
F TELECOM		
AV AV EQUIPMENT		
K KITCHEN		
FP FIRE PROTECTION		

SERIES ORDER

SHEET TYPE

DISCIPLINE

SEGMENT (IF APPLICABLE)

BUILDING LETTER (IF APPLICABLE)

FLOOR LEVEL OR SEQUENTIAL ORDER

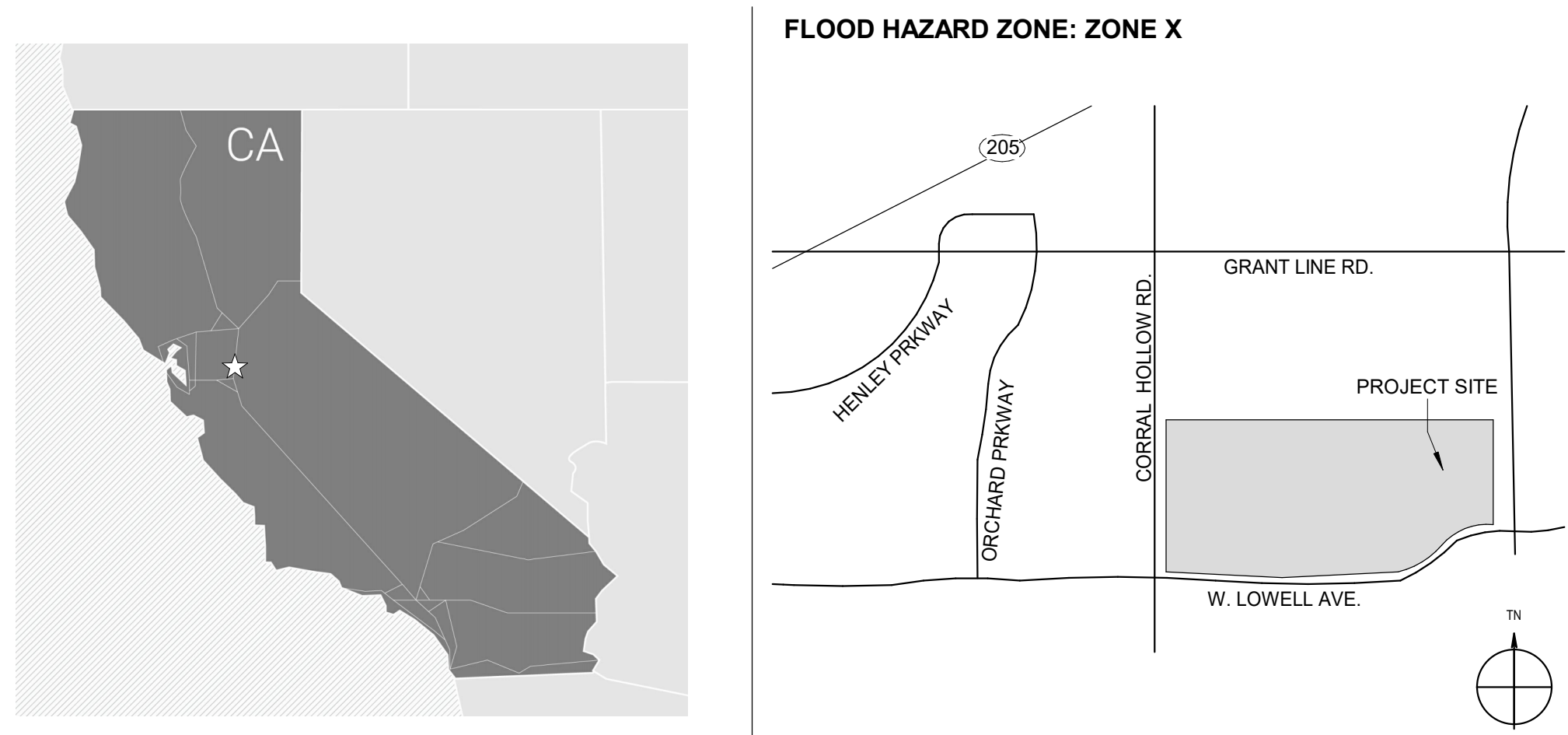
USER DEFINED (IF APPLICABLE)

ABBREVIATIONS

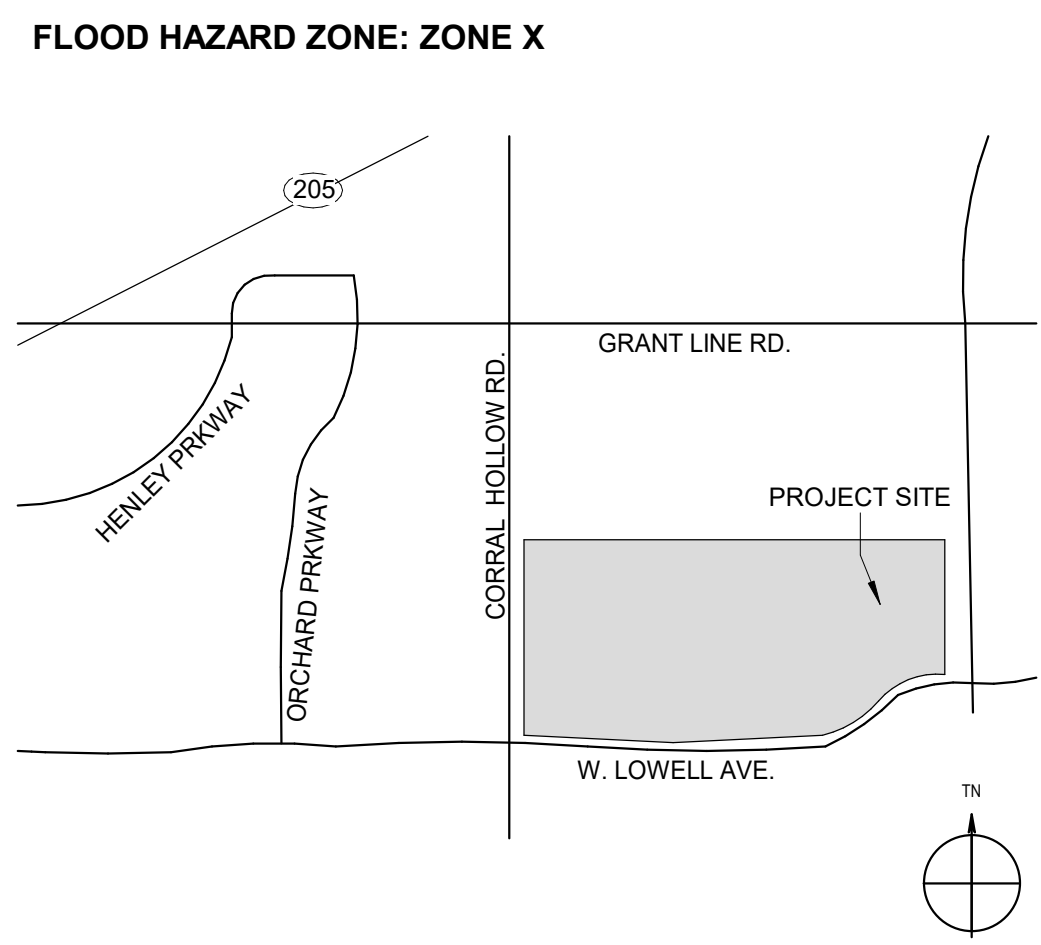
(E) EXISTING	FRP FIBERGLASS REINFORCED PLASTIC	PTC POST TENSIONED CONCRETE
AB ANCHOR BOLT	FRT FIRE RETARDANT TREATED	PTD PAPER TOWEL DISPENSER
AC PAVING	FS FINISH SURFACE	PTN PARTITION
ACC ACCESS/ACCESSIBLE	FTG FOOTING	PTS PNEUMATIC TUBE STATION / SYSTEM
ACC ACoustical CEILING PANEL	GB GRAB BAR	PVC POLYVINYL CHLORIDE
ACT ADJACENT/ADJUSTABLE	GBRC GLASS FIBER REINFORCED CONCRETE	PVMT PAVEMENT
AFF ABOVE FINISH FLOOR	GL GLASS TYPE	QT QUARRY TILE
AGG AGGREGATE	GLB GLUE LAMINATED BEAM	OT OVERLAP
AHU AIR HANDLING UNIT	GYP BD GYPSUM BOARD	R RESILIENT BASE
ARCH ARCHITECTURAL	GYP PLAS GYPSUM PLASTIC	RD ROOF DRAIN
ATT ATTACHMENT	HB HOSE BIB	RECEPT RECEPTACLE
AUTO AUTOMATIC	HD HEAVY DUTY	REF REFERENCE
BD BOARD	HDR HEADER	REFL REFLECTED (IVE)
BLDG BUILDING	HWDR HARDWARE	REFL REFLECTED (IVE)
BUR BURIED	HGT HEIGHT	REFR REFRIGERATOR
CABT CABINET	HM HOLLOW METAL	REINF REINFORCE/REINFORCED/ REINFORCEMENT
CF CUBIC FEET	HP HIGH POINT	REM REMOVE
CFCI CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	HSS HOLLOW STEEL SECTION	RH ROUND HEAD
CFCI CONTRACTOR FURNISHED, CONTRACTOR INSTALLED	ID INTERIOR	RHS ROUND HEAD SCREW
CJ CORNER GUARD	INV INVERT	RO ROUGH OPENING
CG CONTROL JOINT	LANDS LANDSCAPE	ROW SCHEDULE (FOR PIPE)
CN COUNTER LINE	LAV LAVATORY	SCHED SCHEDULE / SCHEDULING
CLF CHAIN LINK FENCE	LLH LONG LEG HORIZONTAL	SD SCHEDULE DRAIN / SOAP DISPENSER
CLR CLEAR	LV LOW POINT	SECT SECTION
CMU CONCRETE MASONRY UNIT	LT WT LIGHT WEIGHT	SG SAFETY GLASS
CO CLEANOUT	LOU LOUVER	SHIT SHEET
COL COLUMN	MACH MACHINE	SHGT SHEATHING
COMP COMPOSITE	MB MACHINE BOLT	SMS SHEET METAL SCREW
COORD COORDINATE	MEF MEDIUM DENSITY FIBERBOARD	SND SANDING
CORR CORRUGATED	MDO MEDIUM DENSITY OVERLAY	SOV SHUT OFF VALVE
CW CERAMIC TILE	MECH MECHANICAL	SPEC SPECIFICATIONS
CTS SKUNK	MED MEDIUM	SS STAINLESS STEEL
DEPR DEPRESSED / DEPRESSION	MEMB MEMBRANE	STC SOUND TRANSMISSION CLASS
DF DRINKING FOUNTAIN	MFR MANUFACTURER	STL STEEL
DM DIMENSION	MH MANHOLE	STSMS SELF TAPPING SHEET METAL
DISP DISPENSER	MO MOUNTED	SUSP SUSPENDED
DS DOWNSPOUT	MTL METAL	SYM SYMMETRICAL
DW DISHWASHER	NTC NOT IN CONTRACT	T TREAD
DWG DRAWING	NR NON RATED	T DETAIL
E EACH WAY	NRC NOISE REDUCTION COEFFICIENT	TAB TOP AND BOTTOM
EIFS EXTERIOR INSULATION FINISH	NTS NOT TO SCALE	TOC TOP OF CURB / CONCRETE
SYSTEM SYSTEM	O OVER	TOP TOP OF PARAPET
EJ EXPANSION JOINT	OC ON CENTER	TOS TOP OF STEEL
ELEC ELECTRICAL	OD OUTSIDE DIAMETER	TOW TOP OF WALL
ELEV ELEVATION / ELEVATOR	OFCI OWNER FURNISHED, CONTRACTOR INSTALLED	TOE TOE PAPER DISPENSER
ENCL ENCLOSE / ENCLOSURE	OFVI OWNER FURNISHED, VENDOR INSTALLED	TS TACKABLE SURFACE
EO EDGE OF SLAB	OH OPERABLE HAND	UJC UNDER CABINET / OR COUNTER
EQ EQUAL	OPR OPERABLE	UNO UNLESS NOTED OTHERWISE
ESC EXCUT/CHOP	OPNG OPENING	UR URINAL
EW ELECTRIC WATER COOLER	ORD OVERFLOW ROOF DRAIN	VAC VACUUM
EXP EXPOSED	PIL PROPERTY LINE	VAP VAPOR BARRIER
FA FIRE ALARM	PA PUBLIC ADDRESS	VCT VINYL COMPOSITION TILE
F FLOOR DRAIN	PAF POWDER ACTUATED FASTENER	VIF VERIFY IN FIELD
FDC FIRE DEPARTMENT CONNECTION	PCC PORTLAND CEMENT CONCRETE	VENT VENT THROUGH ROOF
FEC FIRE EXTINGUISHER W/ CABINET	PED PEDESTRIAN	VWC VINYL WALL COVERING
FF FINISH FLOOR	PERF PERFORATED	W WITH
FG FINISH GRADE	PERM PERIMETER	WO WITHOUT
FHC FIRE HOSE CABINET	PERP PERPENDICULAR	WB WOOD BASE
FSH FLAT HEAD SCREW	PH PANIC HARDWARE	WC WATER CLOSET
FIN FINISH	PIV POST INDICATOR VALVE	WD WOOD
FLR FLOOR	PL PLATE	WDW WINDOW
FOC FACE OF CONCRETE	PLAM PLASTIC LAMINATE	WGT WEIGHT
FOF FACE OF FINISH	PLAS PLASTER	WH WATER HEATER
FOM FACE OF MASONRY	PLUMB PLUMBING	WP WATERPROOFING/WALL PROTECTION
FOS FACE OF STUD	PNL PANEL	WV WATER RESISTANT GYPSUM BOARD
FP FIREPROOFING	PNT PAINT / PAINTED	WS WOOD SCREW
FR FIRE RATED	POC POINT OF CONNECTION	WSC WAINSCOT
FRG FIRE RATED GLASS	PREFIN PREFINISHED	WWF WELDED WIRE FABRIC
	PREP PREP / PREPARATION	

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

STATE MAP



VICINITY MAP



STATEMENT OF GENERAL CONFORMANCE

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

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

- 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 17302 AND 81138 OF THE EDUCATION CODE AND SECTIONS 4-336, 4-341 AND 4-344" OF TITLE 24, PART 1, (TITLE 24, PART 1, SECTION 4-317 (B))

I CERTIFY THAT:

ALL DRAWINGS OR SHEETS LISTED ON THE SHEET INDEX WITH AN (*) IS/ARE IN GENERAL CONFORMANCE WITH THE PROJECT DESIGN AND HAS/HAVE BEEN COORDINATED WITH THE PROJECT PLANS AND SPECIFICATIONS.

SIGNATURE ARCHITECT OR ENGINEER DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE

DATE

PRINT NAME

C-00000
LICENSE NUMBER

01-01-22
EXPIRATION DATE

AGENCY APPROVAL:



HMC Architects
3595-002-100

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

ISSUE

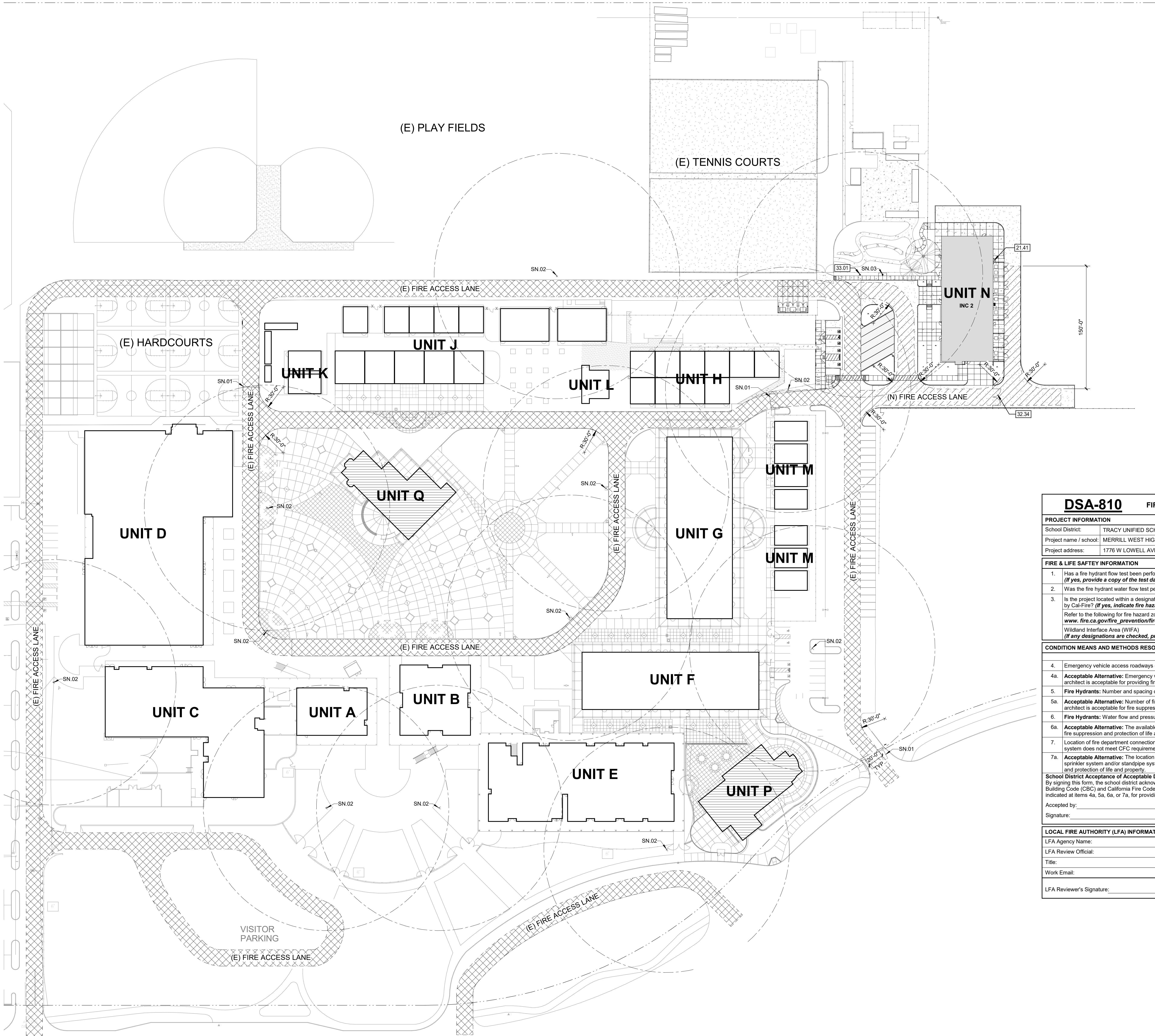
DESCRIPTION DATE

DATE: 08/30/2024

CLIENT PROJ NO:

SHEET:

Autodesk Docs:0595002100 TUSD AG SHOP R220595002100-A-MERRILL WEST AG SHOP.rvt 8/30/2024 11:00:37 AM



LEGEND

- PROPERTY LINE
- UNIT DESIGNATION
- FUTURE BUILDING
- UNIT DESIGNATION
- EXISTING BUILDINGS
- LANDSCAPE AREA
- CONCRETE WALK / PAVING
- ASPHALT CONCRETE PAVING
- PAVERS
- FIRE HYDRANT
- FIRE DEPARTMENT CONNECTION

BUILDING DESIGNATIONS

- UNIT A - ADMINISTRATION
- UNIT B - LIBRARY
- UNIT C - CAFETERIA
- UNIT D - GYMNASIUM
- UNIT E - CLASSROOMS
- UNIT F - CLASSROOMS
- UNIT G - CLASSROOMS
- UNIT H - RELOCATABLE CLASSROOMS
- UNIT J - RELOCATABLE CLASSROOMS
- UNIT K - RELOCATABLE CLASSROOMS
- UNIT L - RESTROOMS
- UNIT M - RELOCATABLE CLASSROOMS
- UNIT N - NEW AG SHOP
- UNIT P - PERFORMING ARTS CLASSROOMS
- UNIT Q - CLASSROOMS

DSA-810 FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

PROJECT INFORMATION

School District: TRACY UNIFIED SCHOOL DISTRICT

Project name / school: MERRILL WEST HIGH SCHOOL- AG SHOP

Project address: 1776 W LOWELL AVE., TRACY, CA 95376

FIRE & LIFE SAFETY INFORMATION

1. Has a fire hydrant flow test been performed within the past 12 months? (If yes, provide a copy of the test data) Yes ☐ No ☒

2. Was the fire hydrant water flow test performed as part of this LFA review? Yes ☐ No ☒

3. Is the project located within a designated fire hazard severity zone as established by Cal-Fire? (If yes, indicate fire hazard zone classification below) Yes ☐ No ☒

Refer to the following for fire hazard zone locations: www.fire.ca.gov/fire_prevention/fire_prevention_wildland_zones_maps Moderate ☐ High ☐ Very High ☐

Wildland Interface Area (WIFA) ☐ WIFA ☐

(If any designations are checked, project design must meet the requirements of CBC Chapter 7A)

CONDITION MEANS AND METHODS RESOLUTION

4. Emergency vehicle access roadways do not meet CFC requirements

4a. **Acceptable Alternative:** Emergency vehicle and personnel access as proposed by the 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 Alternative:** Number of fire hydrants and spacing as proposed by the 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 Alternative:** The available flow and pressure is acceptable for providing fire suppression and protection of life and property.

7. Location of fire department connection(s) serving fire sprinkler system or standpipe system does not meet CFC requirements.

7a. **Acceptable Alternative:** The location of fire department connection serving the fire sprinkler system and/or standpipe system is acceptable for providing fire suppression and protection of life and property.

School District Acceptance of Acceptable Design Alternates

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

Accepted by: _____ Title: _____

Signature: _____ Date: _____

LOCAL FIRE AUTHORITY (LFA) INFORMATION

LFA Agency Name: _____

LFA Review Official: _____

Title: _____ Work Phone: _____

Work Email: _____

LFA Reviewer's Signature: _____ Date: _____

AGENCY APPROVAL:



HMC Architects
3595-002-100

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

ISSUE

DESCRIPTION	DATE
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SHEET NOTES

SN.01 (E) GATE WITH KNOX LOCK BOX
SN.02 (E) FIRE HYDRANT
SN.03 (E) FDC, PROTECT IN PLACE

KEYNOTES

21.41 FIRE RISER
32.34 CHAIN LINK DOUBLE SWING GATE WITH KNOX LOCK BOX;
KNOX LOCK PER LOCAL FIRE AUTHORITY STANDARDS
33.01 FIRE HYDRANT | CIVIL

FACILITY:
MERRILL F WEST HIGH SCHOOL
1775 W LOWELL AVE
TRACY, CA 95376

PROJECT:
MERRILL F WEST HS AGRICULTURE CTE BLDG
INCREMENT 1

SHEET NAME:
LOCAL FIRE AUTHORITY SITE ACCESS PLAN

PROGRESS

DATE: 08/30/2024 CLIENT PROJ NO:
SHEET:

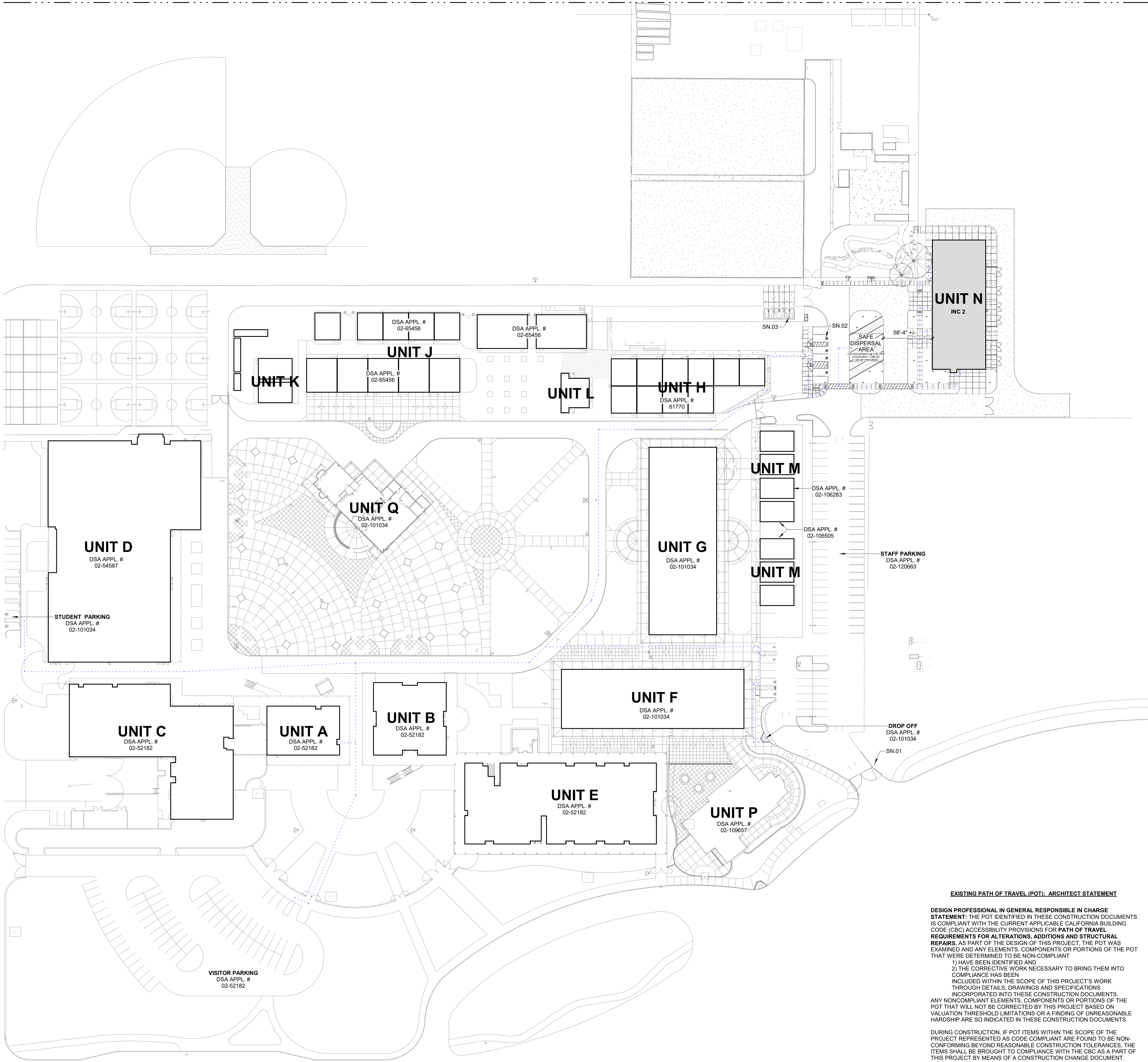
LOCAL FIRE AUTHORITY INC 1

1

1" = 50'-0"

PLEASE RECYCLE

G1.10



SHEET NOTES

SN 01 PARKING LOT ENTRY SIGN, THIS APPLICATION
SN 02 ACCESSIBLE PARKINGS, THIS APPLICATION
SN 03 TRASH AND RECYCLING

ACCESSIBLE PARKING STALL CALCULATION (TABLE 11B-208.2)

TOTAL PARKING STALL COUNT:	5 STALLS
REQUIRED PARKING STALLS	
REQUIRED ACCESSIBLE STALLS:	1 STALL
REQUIRED VAN ACCESSIBLE STALLS:	1 VAN
ACCESSIBLE STALLS PROVIDED:	3 STANDARD AND 1 VAN

SITE CALCULATIONS

SAFE DISPERSAL AREA	1095 SF REQUIRED, 1332 SF PROVIDED
GATE WIDTH CALCULATION	
TOTAL OCCUPANTS	38 OCCUPANTS
GATE WIDTH REQUIRED	38 Occ x 0.2 = 7.6', 32" MIN.
GATE WIDTH PROVIDED	40"

FACILITY:
MERRILL F WEST HIGH SCHOOL
1775 W LOWELL AVE
TRACY, CA 95376

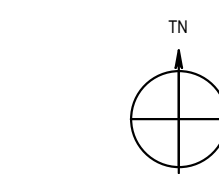
PROJECT:
MERRILL F WEST HS AGRICULTURE CTE BLDG
INCREMENT 1

SHEET NAME:
CODE INFORMATION AND CAMPUS SITE PLAN

PROGRESS

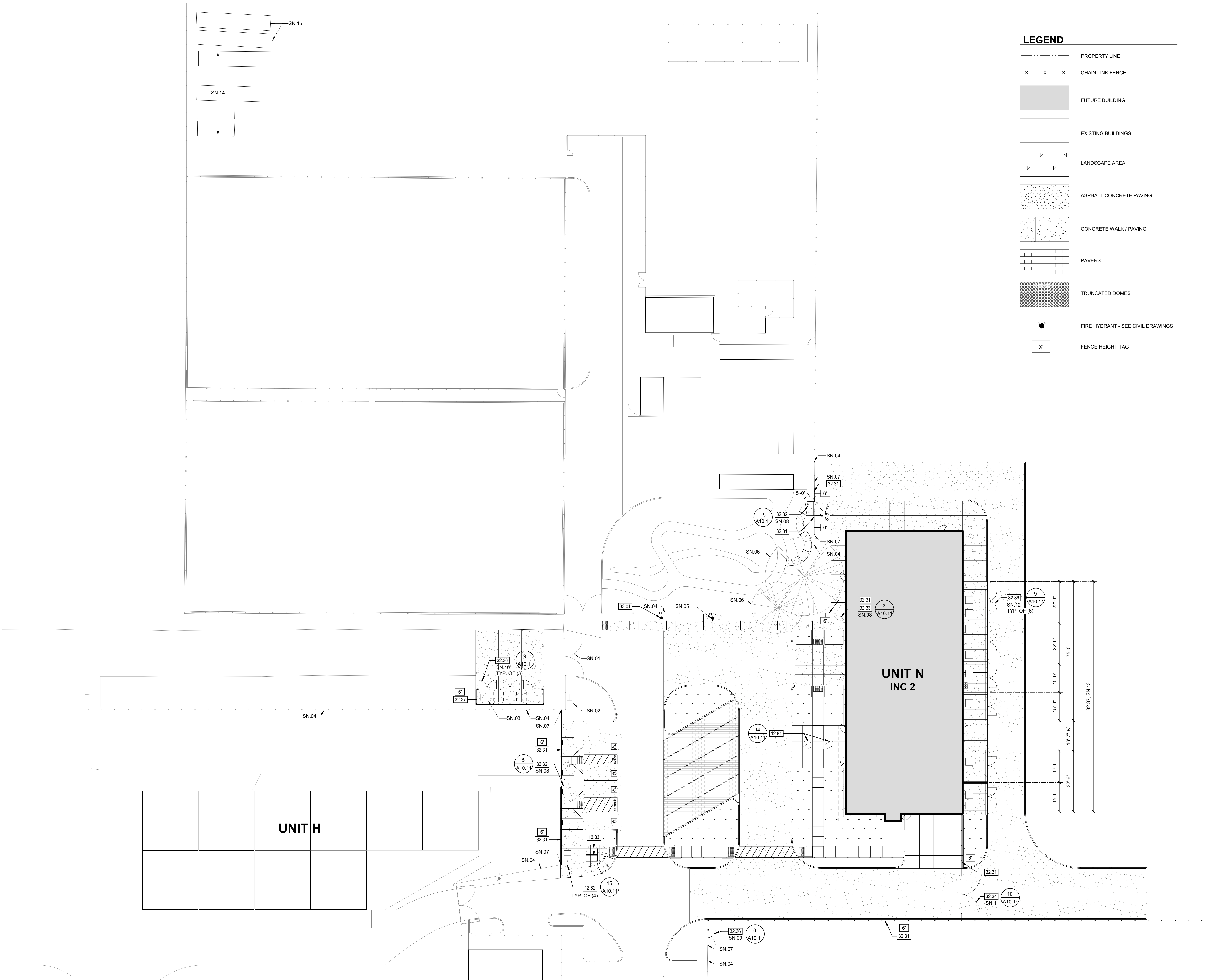
DATE: 08/30/2024 CLIENT PROJ NO:

SHEET:



Autodesk Docs\3595002100\TUSD AG SHOP R223595002100-A-MERRILL WEST AG SHOP.rvt
8/30/2024 11:00:58 AM

THE LINE SHOWN ABOVE THE
EXISTING CHAIN LINK FENCE
SHEETS DRAWING PAGE SIZE



AGENCY
APPROVAL:



HMC
Architects
3595-002-100

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

ISSUE

DESCRIPTION	DATE
-------------	------

SHEET NOTES

SN.01 (E) GATE TO REMAIN
SN.02 (E) TRANSFORMER TO REMAIN
SN.03 RELOCATED (E) DUMPSTERS
SN.04 (E) CHAIN LINK FENCING TO REMAIN
SN.05 (E) FDC
SN.06 (E) TREE TO REMAIN
SN.07 ADJUST EXISTING FENCE AS REQUIRED FOR INSTALLATION OF
NEW GATE OR FENCE AS OCCURS
SN.08 4'-0" WIDE, 6'-0" TALL
SN.09 6'-0" WIDE, 6'-0" TALL
SN.10 10'-0" WIDE, 6'-0" TALL
SN.11 20'-0" WIDE, 6'-0" TALL
SN.12 10'-0" WIDE, 8'-0" TALL
SN.13 ALL CHAIN LINK FENCING AT EQUIPMENT CAGES TO BE 8' TALL
WITH PRIVACY SLATS
SN.14 RELOCATED (E) STORAGE CONTAINER
SN.15 RELOCATED (E) POWERED STORAGE CONTAINER

KEYNOTES

12.81 GLULAM BENCH
12.82 STUDENT BIKE RACK: ORION ORN-2-SF BY MADRAX, OR EQUAL
12.83 STAFF BIKE LOCKER: MADLOCKER BY MADRAX, OR EQUAL
32.31 CHAIN LINK FENCING
32.32 CHAIN LINK SINGLE SWING GATE
32.33 CHAIN LINK SINGLE SWING GATE WITH EXIT HARDWARE
32.34 CHAIN LINK DOUBLE SWING GATE WITH KNOX LOCK BOX: KNOX
LOCK PER LOCAL FIRE AUTHORITY STANDARDS
32.35 CHAIN LINK DOUBLE SWING GATE
32.37 CHAIN LINK FENCING WITH PRIVACY SLATS
33.01 FIRE HYDRANT | CIVIL

NOTES

- REFER TO SHEET G0.12 FOR TYPICAL SYMBOLS AND ABBREVIATIONS
- REFER TO CIVIL DRAWINGS FOR PAVING, GRADING, AND UTILITY INFORMATION
- REFER TO ELECTRICAL DRAWINGS FOR UTILITY INFORMATION
- CONTRACTOR IS RESPONSIBLE FOR REPAIR/REPLACEMENT OF ALL HARDSCAPE/PLANTING OUTSIDE OF LIMIT OF WORK LINE FOR CONNECTION OF UNDERGROUND UTILITIES
- CONTRACTOR TO PROTECT ALL ITEMS NOTED EXISTING TO REMAIN DURING DEMOLITION AND CONSTRUCTION
- FENCING SCOPE IS EXEMPT FROM STRUCTURAL REVIEW PER DSA IR-A-22
- STORAGE CONTAINER SCOPE IS EXEMPT FROM STRUCTURAL REVIEW PER DSA IR-A-22
- FOR CHAIN LINK FENCE CONSTRUCTION SEE

1
A10.11

AND

2
A10.11

FACILITY:

MERRILL F WEST HIGH SCHOOL
1775 W LOWELL AVE
TRACY, CA 95376

PROJECT:

MERRILL F WEST HS AGRICULTURE CTE BLDG
INCREMENT 1

SHEET NAME:

PROJECT SITE PLAN

PROGRESS

DATE: 08/30/2024

CLIENT PROJ NO:

SHEET:

PROJECT SITE PLAN

1

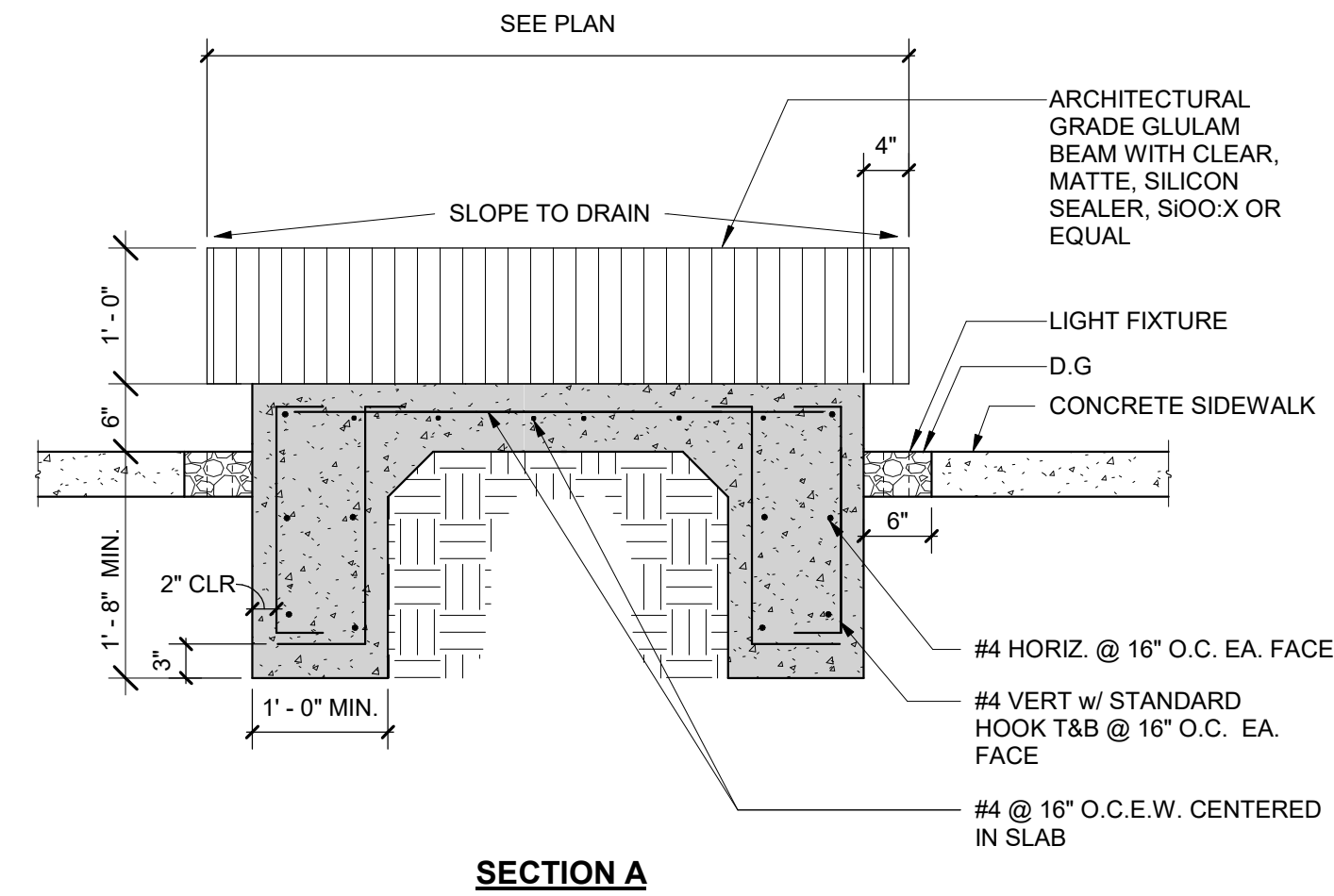
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PLEASE RECYCLE

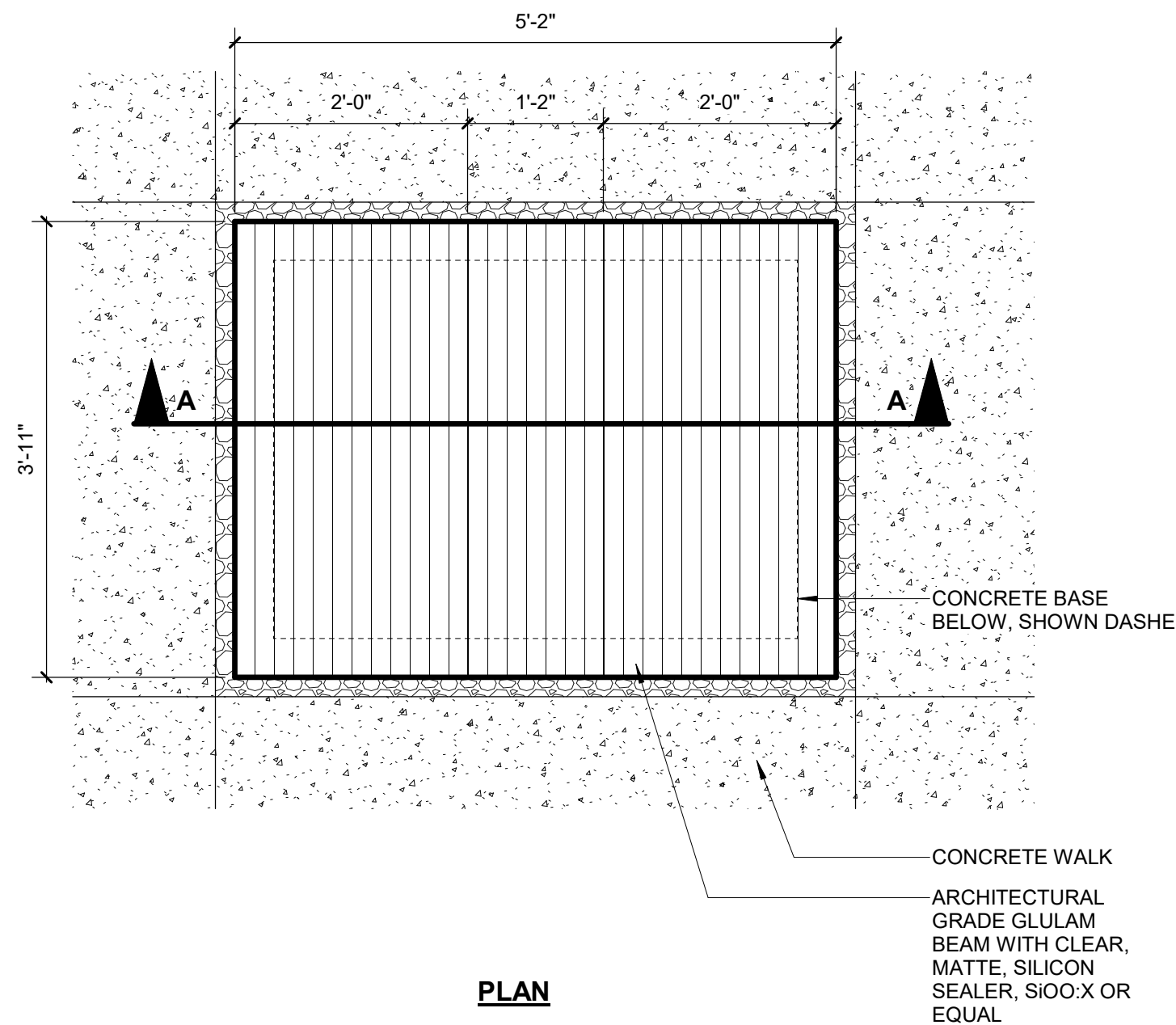
A1.11

AutoCAD Docs: 0359002100 TUSD AG SHOP R22359002100-A-MERRILL WEST AG SHOP.rvt
8/30/2024 11:00:58 AM

THE LINE SHOWN ABOVE THE PER PLANS IS THE LOCATION OF THE PER PLANS. THE PER PLANS ARE SHOWN AT THE BOTTOM OF THE SHEET. THE PER PLANS ARE SHOWN AT THE BOTTOM OF THE SHEET.

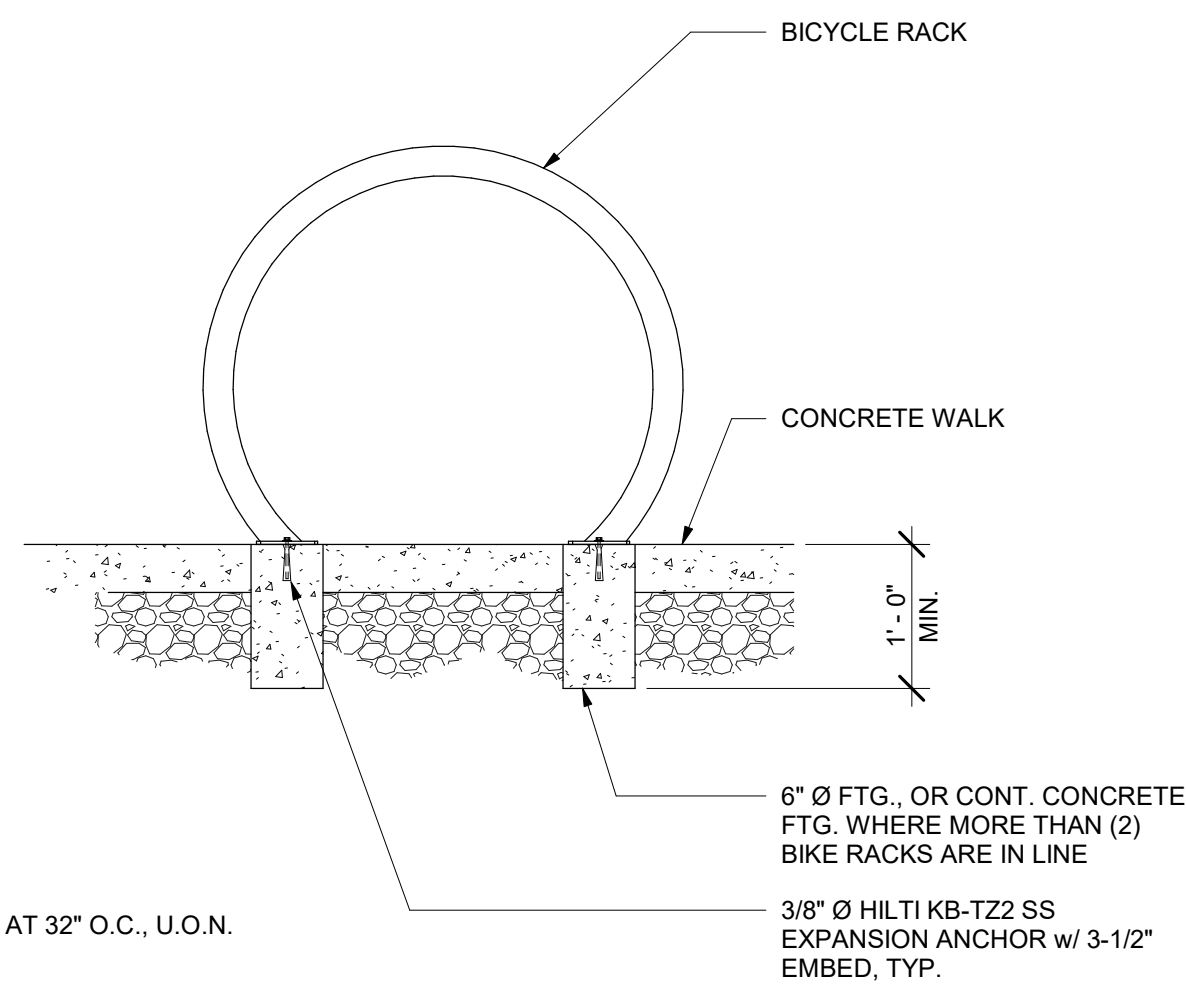


SECTION A



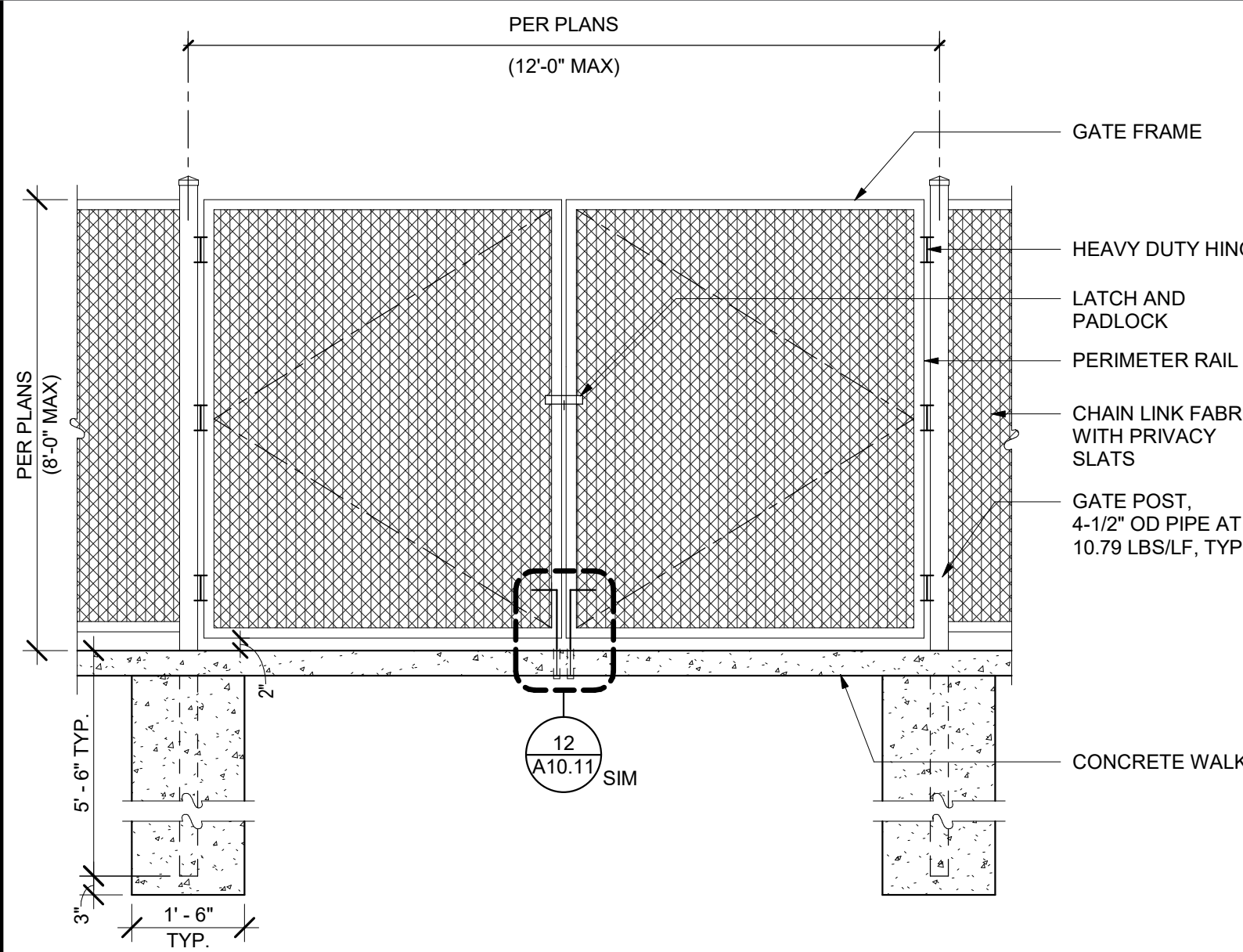
PLAN

GLULAM BENCH 14
3/4" = 1'-0"

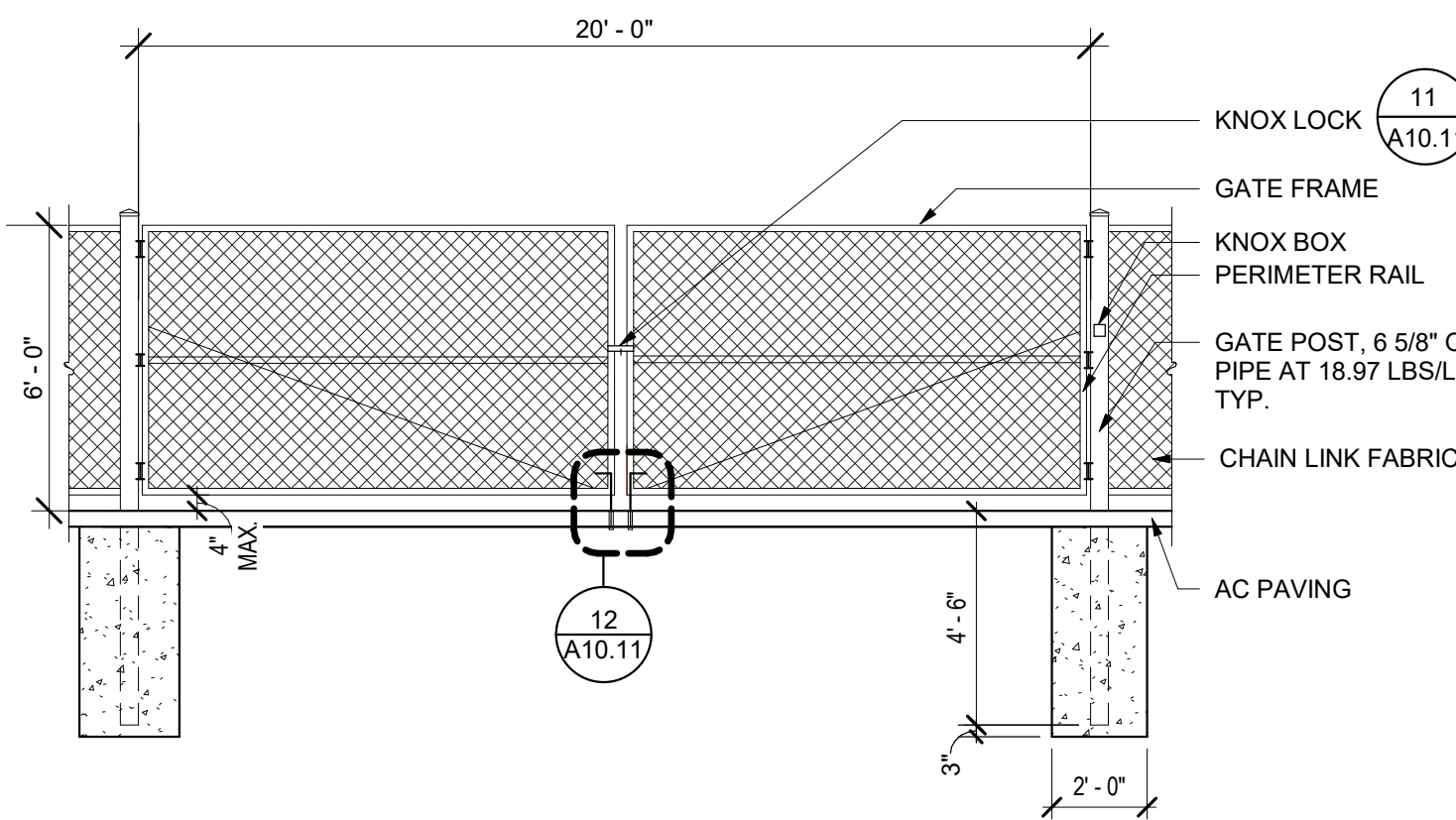


NOTE:
SPACE RACKS AT 32" O.C., U.O.N.

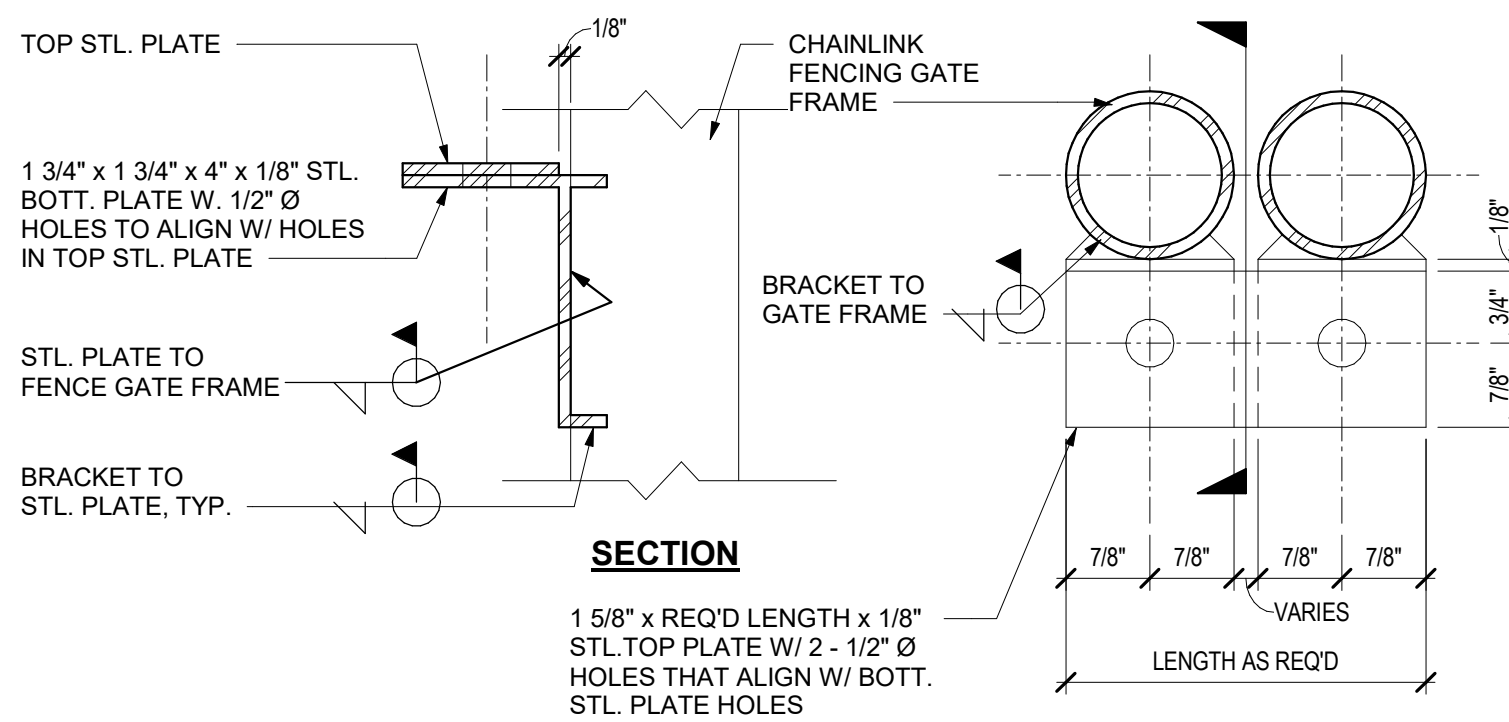
BIKE RACK ANCHORAGE 15
3/4" = 1'-0"



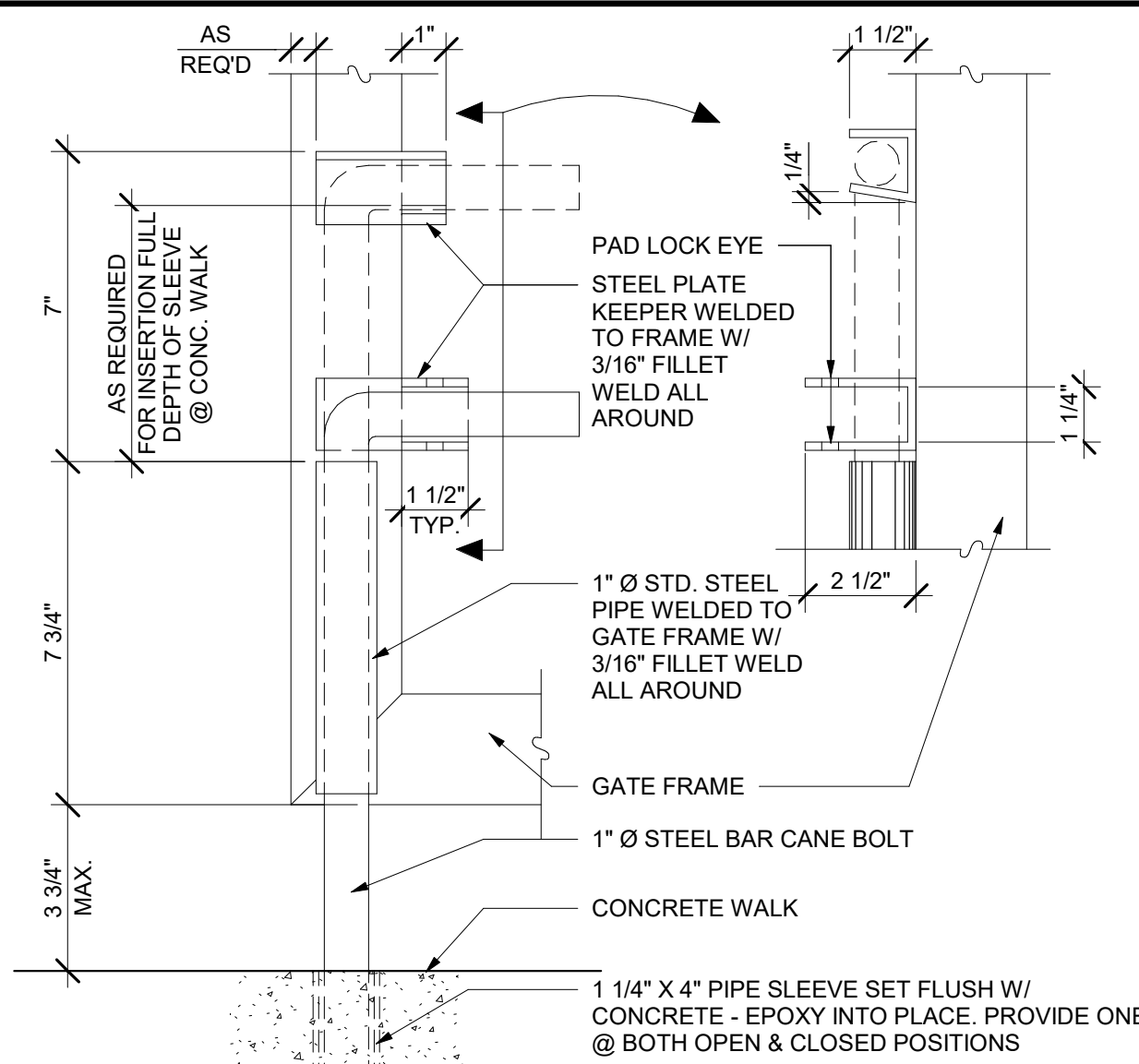
CHAIN LINK GATE - PRIVACY SLATS 9
1/2" = 1'-0"



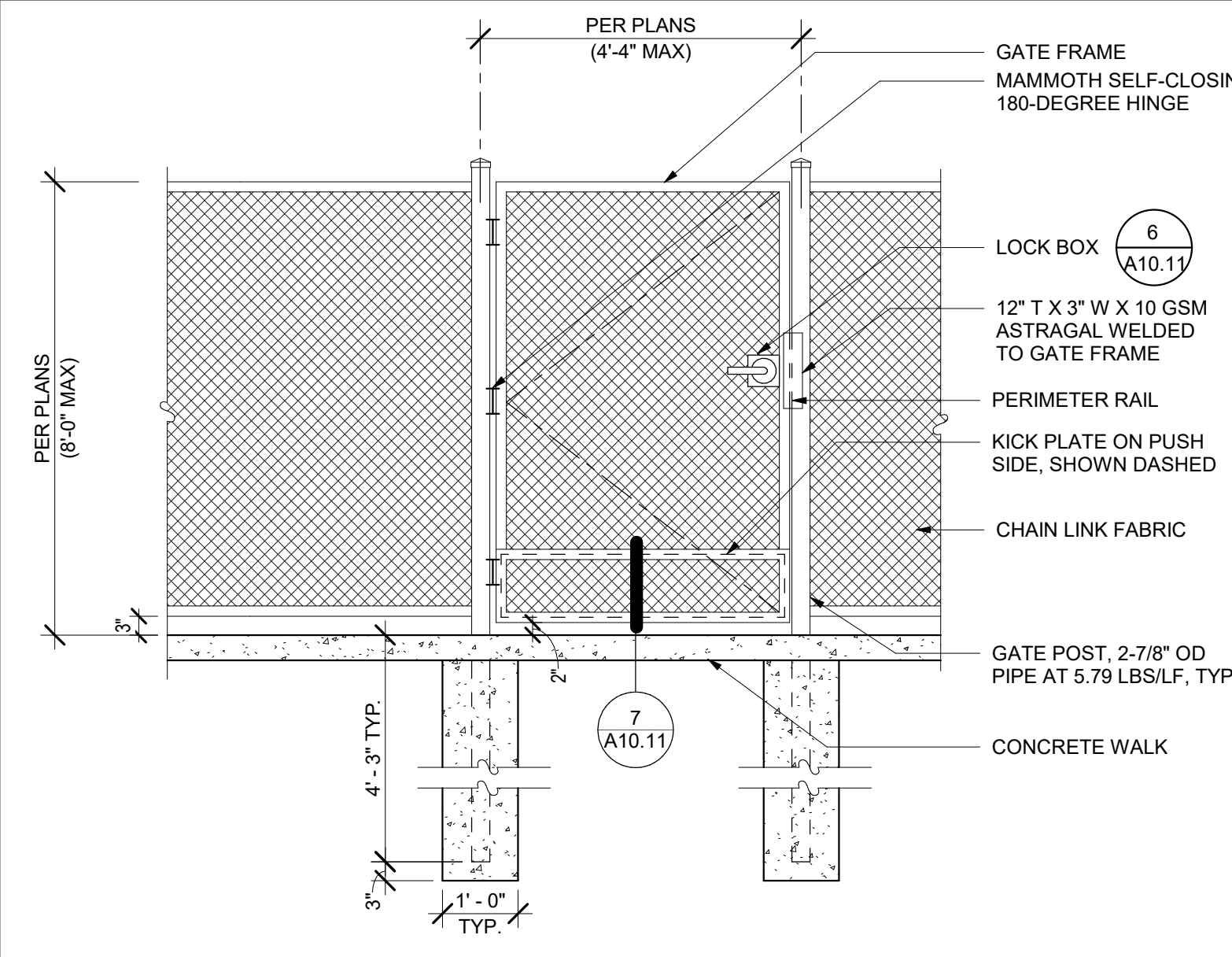
CHAIN LINK FIRE GATE 10
1/4" = 1'-0"



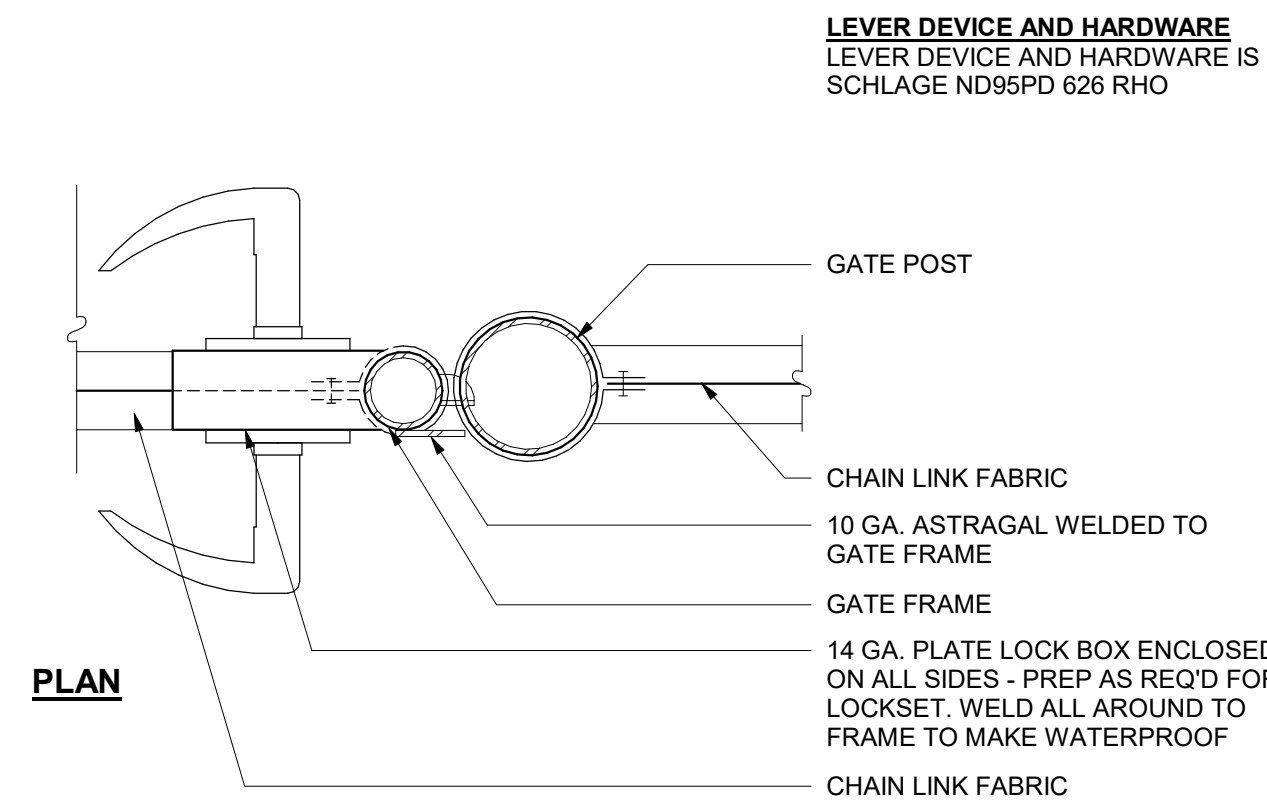
KNOX LOCK GATE DETAIL - CHAINLINK 11
6" = 1'-0"



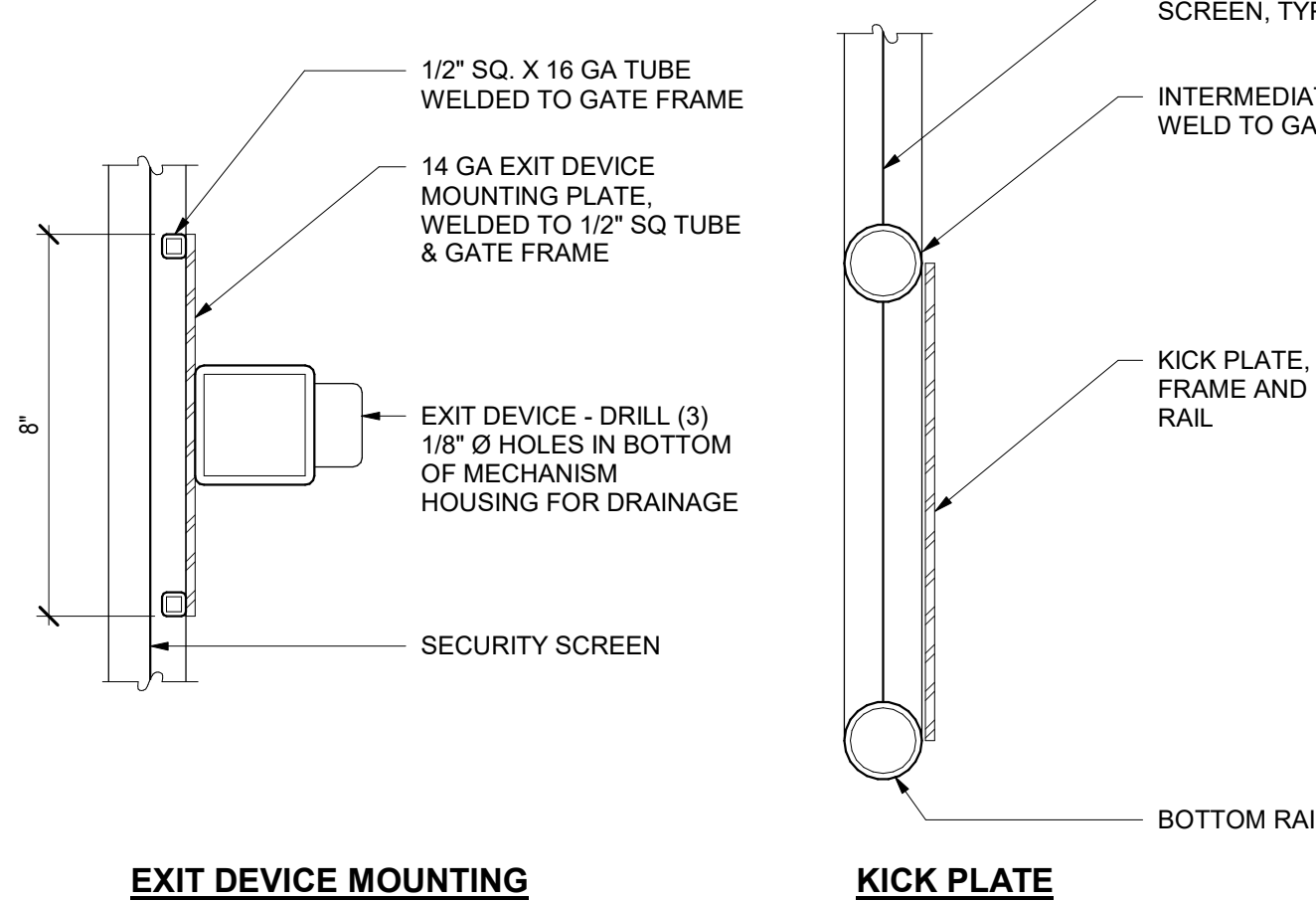
CANE BOLT ASSEMBLY 12
3" = 1'-0"



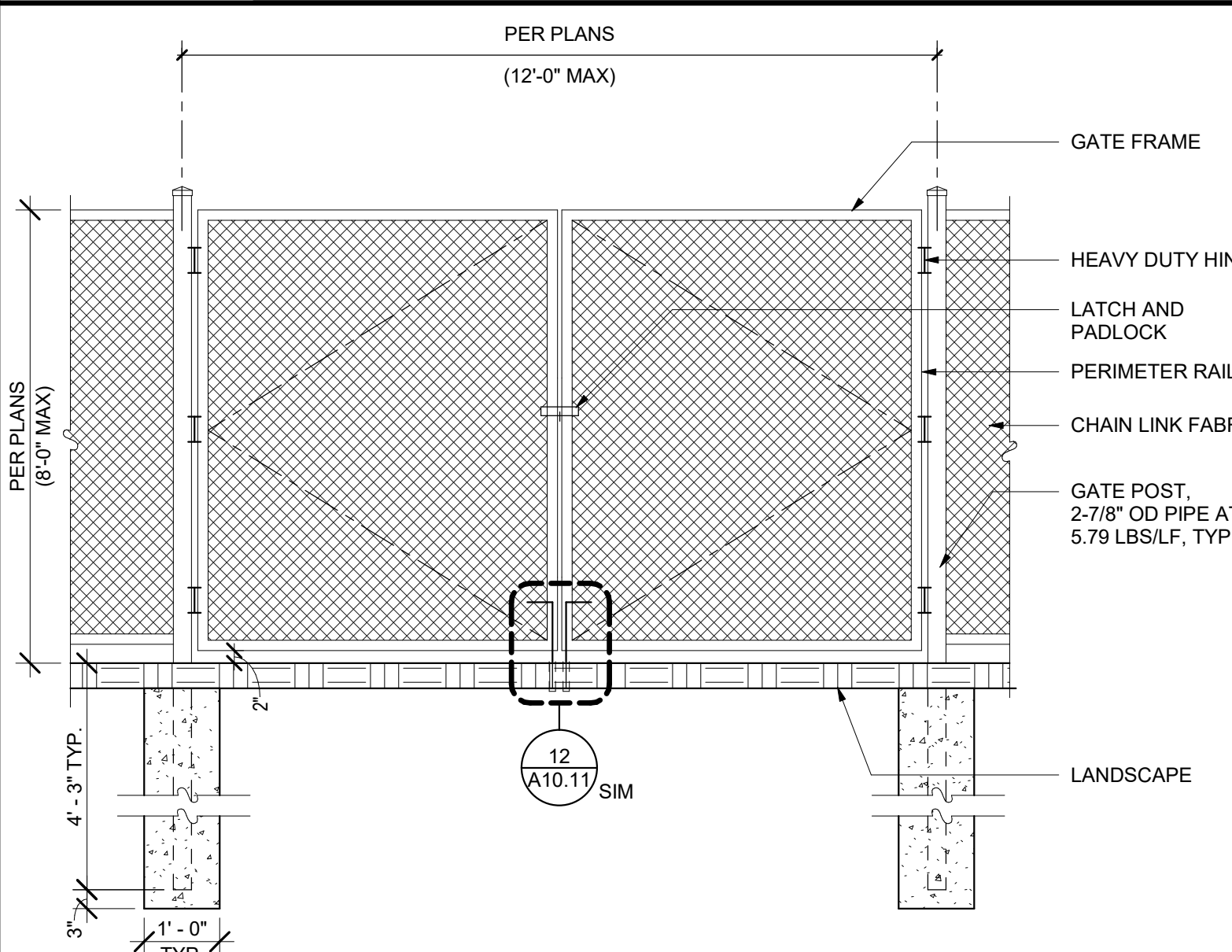
CHAIN LINK GATE - MAN GATE 5
1/2" = 1'-0"



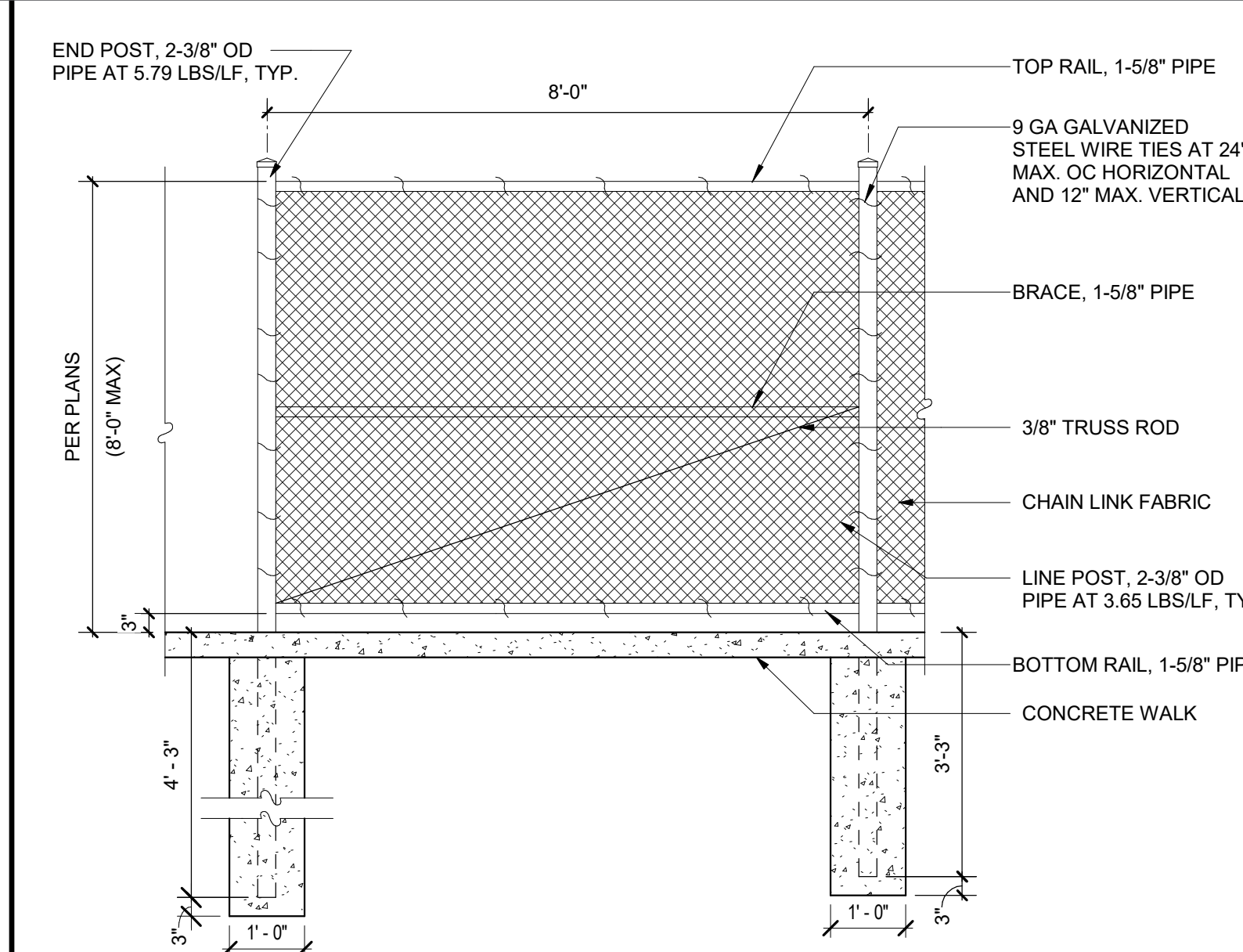
GATE LOCK BOX 6
3" = 1'-0"



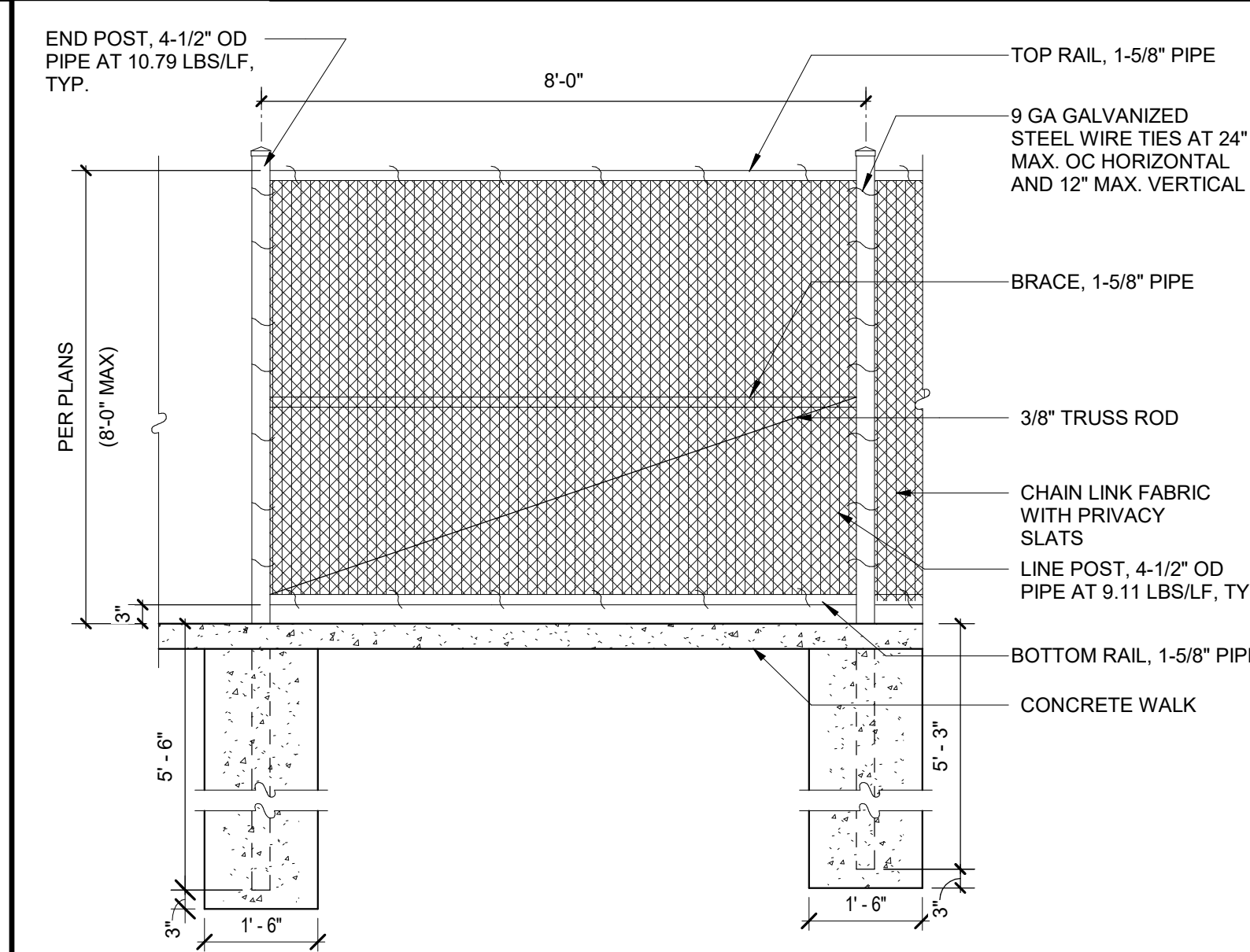
MOUNTING PLATE / KICK PLATE 7
3" = 1'-0"



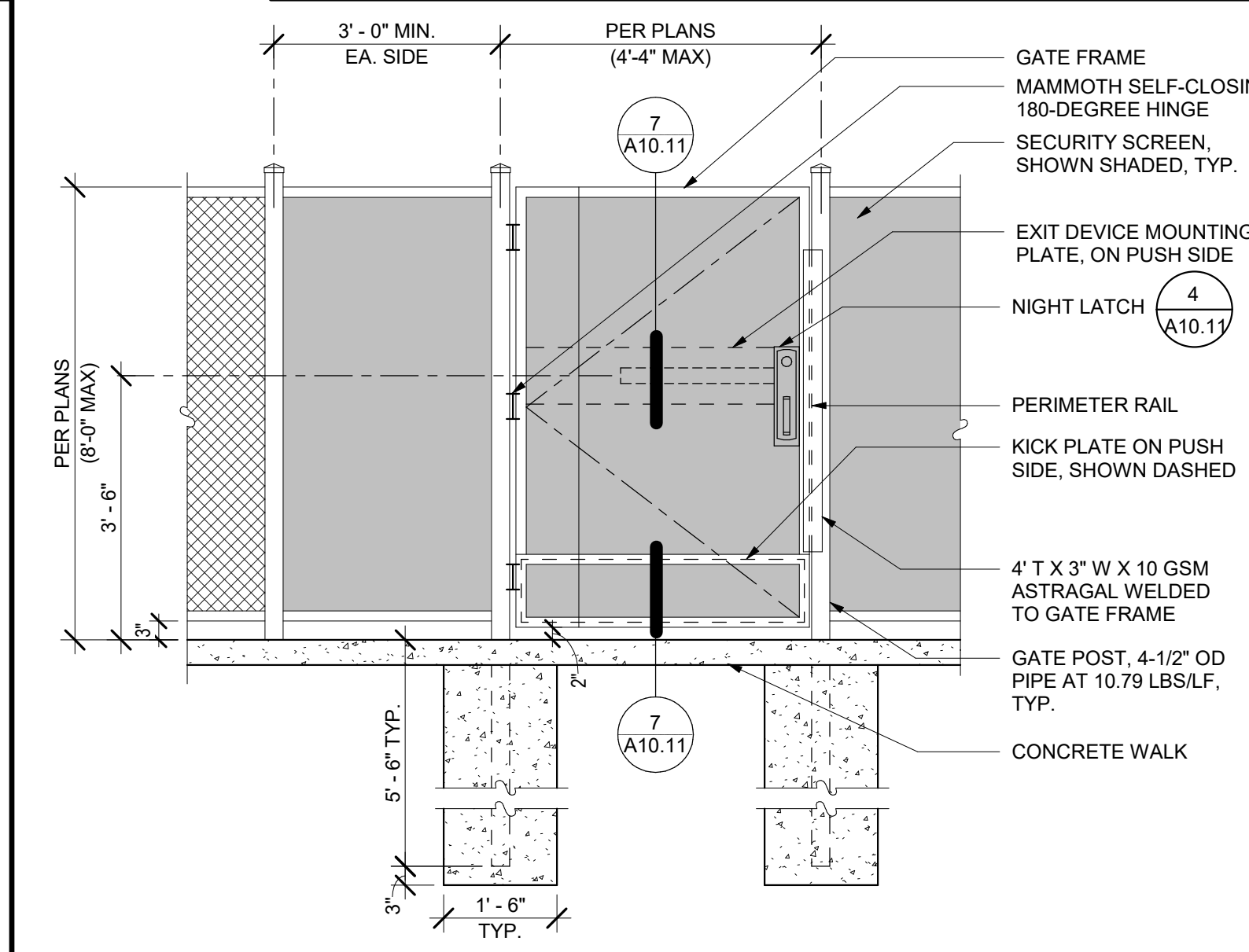
CHAIN LINK GATE - LANDSCAPE 8
1/2" = 1'-0"



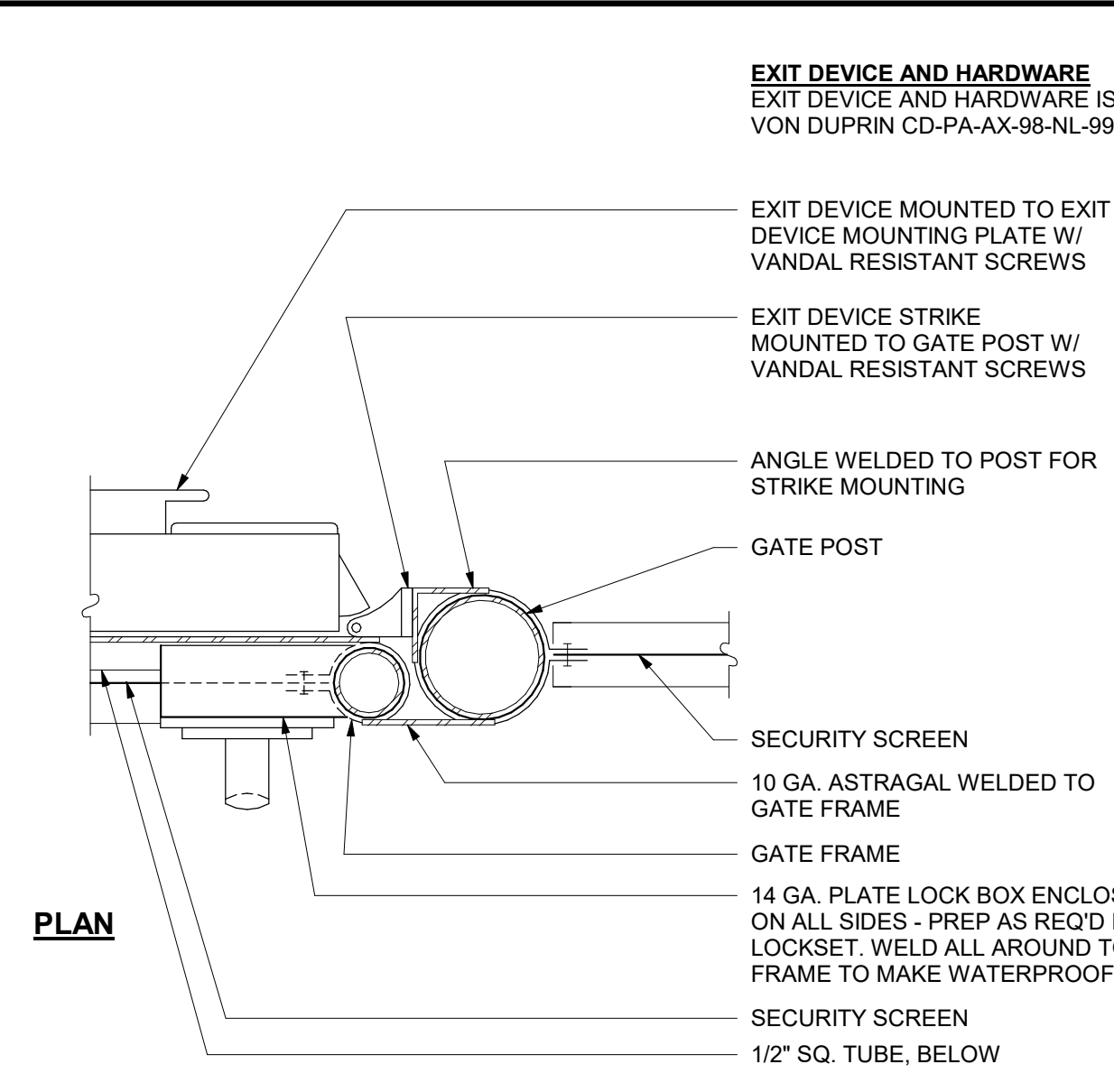
CHAIN LINK FENCE 1
1/2" = 1'-0"



CHAIN LINK FENCE - PRIVACY SLATS 2
1/2" = 1'-0"



CHAIN LINK GATE - EXIT 3
1/2" = 1'-0"



GATE LOCK BOX 4
3" = 1'-0"

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

ISSUE

DESCRIPTION DATE

KEYNOTES

NOTES

FACILITY:
MERRILL F WEST HIGH SCHOOL
1775 W LOWELL AVE
TRACY, CA 95376

PROJECT:
MERRILL F WEST HS AGRICULTURE CTE BLDG
INCREMENT 1

SHEET NAME:
SITE AND GATE DETAILS

PROGRESS

DATE: 08/30/2024

CLIENT PROJ NO:

SHEET:

A10.11

PLEASE RECYCLE

ABBREVIATIONS

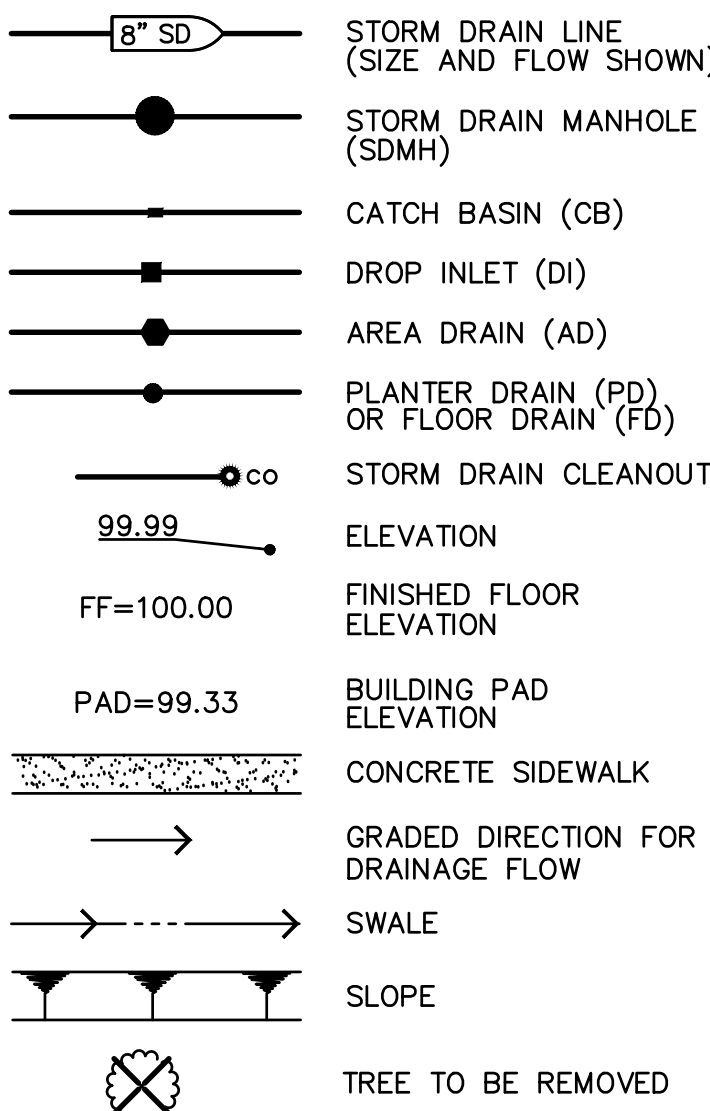
NOTE: NOT ALL ABBREVIATIONS MAY BE USED ON THESE PLANS.

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

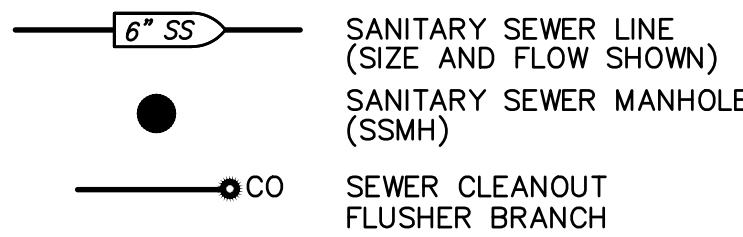
LEGEND

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

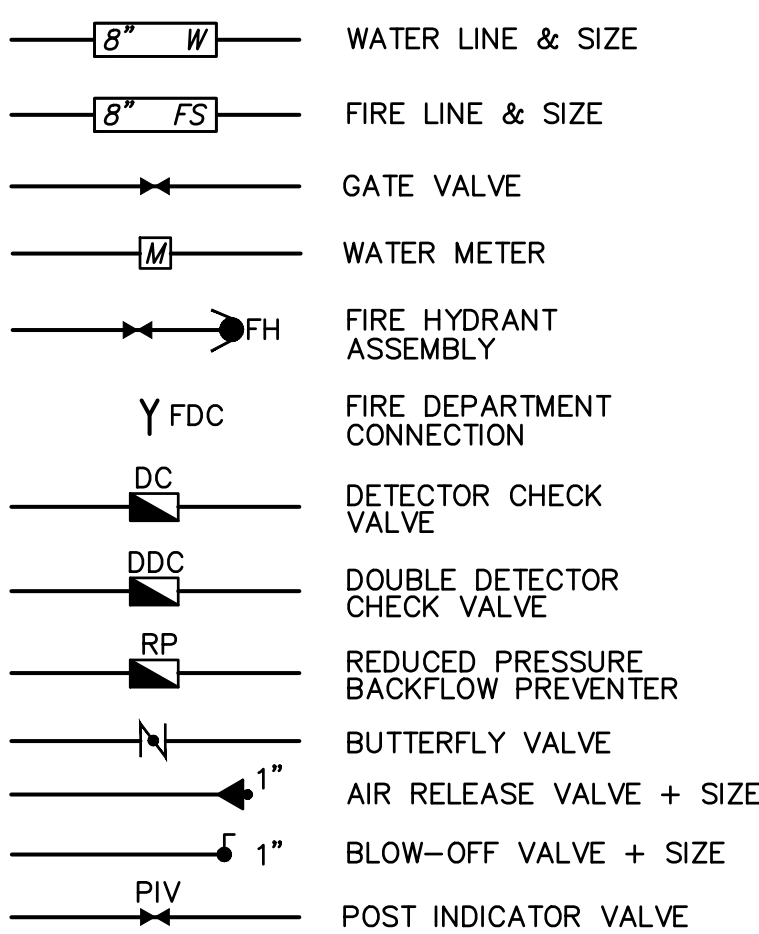
PROPOSED GRADING & DRAINAGE SYMBOLS:



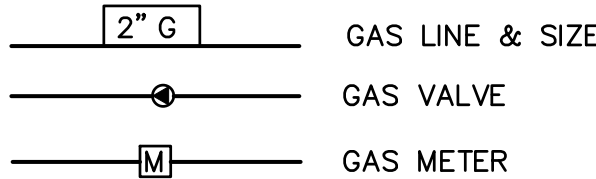
PROPOSED SANITARY SEWER SYMBOLS:



PROPOSED WATER SYMBOLS:



PROPOSED GAS SYMBOLS:



WCE 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 1-800-227-2800, 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 SO A CLEAN EDGE REMAINS FOR PATCH BACK.. IF EDGE IS DAMAGED, A NEW SAW CUT WILL BE REQUIRED. THE EXPOSED EDGE SHALL BE "TACKED" WITH EMULSION PRIOR TO PAVING.
- 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 A MINOR ADJUSTMENT OF REBAR WITHIN CONCRETE 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 CONTRACTOR'S EXPENSE.
- ALL CONTRACTION/CONSTRUCTION JOINTS "CJ" SHALL BE 1/4 THE SLAB THICKNESS DEEP, BUT NO LESS THAN 1" FOR CONTROLLING OR 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 CONTRACTOR'S 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 SEEDED 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 STICK" APPLICATION PER ASTM A 780-01. GALVANIZING PAINTS WILL NOT BE ALLOWED.

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. (SQ.) LEVEL LANDING (1.9% MAX., ANY DIRECTION) IS PROVIDED AT EVERY EXTERIOR DOOR AS IDENTIFIED ON THE PLANS. THIS SHALL BE DONE PRIOR TO CONCRETE POURING TO ENSURE NO VARIATION FROM THE PLANS OR ERROR IN GRADE HAS OCCURRED.
- PAVEMENT ADJOINING BUILDINGS NOT INTENDED FOR PEDESTRIAN TRAVEL SHALL BE SLOPED NO LESS THAN 2% IN ACCORDANCE WITH THE CBC SECTION 1804A.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 1804A.4 FOR A MINIMUM DISTANCE OF 10 FEET, AND NOT MORE THAN 1:48 (2.08%) IN ACCORDANCE WITH CBC SECTION 11B-403.3.

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



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PROJECT:

MERRILL F WEST HS AGRICULTURE CTE BLDG

SHEET NAME:

GENERAL NOTES, LEGEND AND ABBREVIATIONS

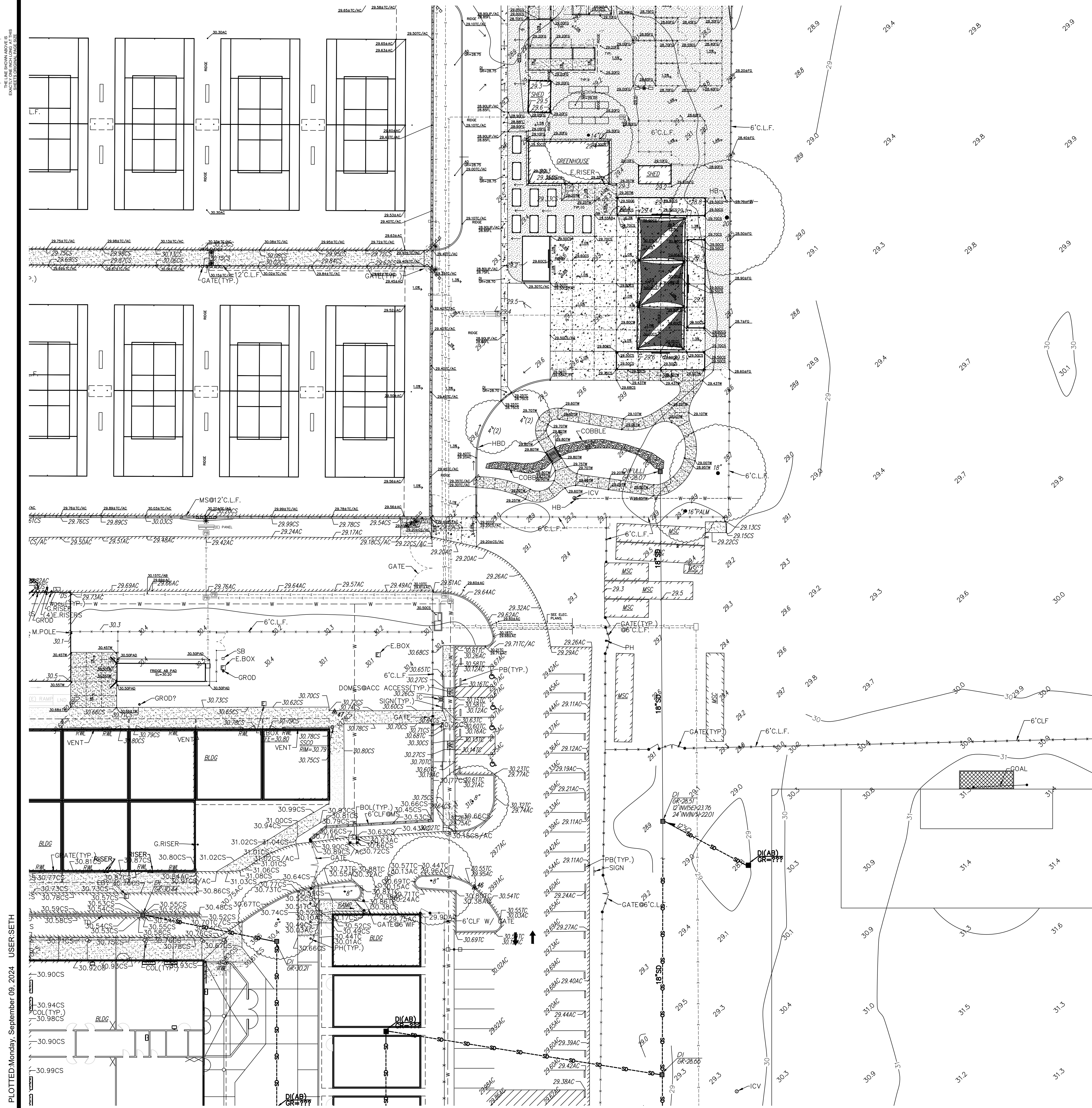
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DATE: 08/22/24

CLIENT PROJ NO:

SHEET:

FILE: I:\24-113\CIVIL\DWG\24-113-C0.2.DWG PLOTTED Monday, September 09, 2024 USER:SETH



TBM LIST

NO.	DESCRIPTION	NORTHING	EASTING	ELEVATION	NO.	DESCRIPTION	NORTHING	EASTING	ELEVATION	NO.	DESCRIPTION	NORTHING	EASTING	ELEVATION
7	CPS CHISELED	9737.66	9660.01	31.38	27	CPS CHISELED	9502.70	9715.56	31.00	41	CPS CHISELED	9762.21	10041.21	29.91
8	CPS CHISELED	9705.38	9632.86	31.34	28	CPS CHISELED	9502.70	9715.56	31.00	42	CPS CHISELED	9590.66	10320.21	30.62
9	CPS CHISELED	9726.18	10121.78	29.46	29	CPS CHISELED	9316.05	11033.28	32.95	43	CPS CHISELED	9379.14	10276.72	32.70
10	CPS CHISELED	9502.70	9715.56	31.00	30	CPS CHISELED	9366.42	10878.78	33.45	44	CPS CHISELED	9347.32	10013.22	31.26
11	CPS CHISELED	9352.98	10524.82	32.56	31	CPS CHISELED	9551.45	11085.88	31.27	45	CPS CHISELED	9982.86	11204.10	30.31
12	CPS CHISELED	9316.05	11033.28	32.95	32	CPS CHISELED	9660.52	11319.74	31.36	46	CPS CHISELED	10104.80	11274.96	30.56
13	CPS CHISELED	9366.42	10878.78	33.45	33	CPF CHISELED	9828.10	11202.80	30.42	47	CPS CHISELED	10184.64	11211.43	30.72
14	CPS CHISELED	9551.45	11085.88	31.27	34	CPS CHISELED	9517.02	10079.80	29.41	48	CPS CHISELED	10269.01	11244.09	29.36
15	CPS CHISELED	9660.52	11319.74	31.36	35	CPS CHISELED	10164.27	9897.11	29.89	49	CPS CHISELED	10460.45	11026.73	29.68
24	CPS CHISELED	9737.66	9660.01	31.38	36	CPS CHISELED	10088.49	9719.15	29.84	50	CPS CHISELED	10186.24	11018.11	31.04
25	CPS CHISELED	9705.38	9632.86	31.34	37	CPS CHISELED	9748.24	9751.02	29.93	51	CPS CHISELED	10303.67	10501.08	28.93
26	CPS CHISELED	9726.18	10121.78	29.46	38	CPS CHISELED	9552.89	9927.71	29.77					

EXISTING TOPOGRAPHY

- PROPERTY LINE
- CENTERLINE
- EASEMENT
- PROPERTY CORNER FOUND AS NOTED
- PROPERTY CORNER NOTINGS FOUND OR SET
- 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

- STORM DRAIN LINE (SIZE + DIRECTION OF FLOW)
- STORM DRAIN LINE (RECORD INFORMATION)
- STORM DRAIN LINE (UNDERGROUND LOCATING)
- STORM DRAIN MANHOLE
- STORM DRAIN CLEANOUT
- DROP INLET
- AREA DRAIN
- RWL - RAIN WATER LEADER
- DOWNSPOUT
- SANITARY SEWER LINE (SIZE + DIRECTION OF FLOW)
- SANITARY SEWER LINE (RECORD INFORMATION)
- SANITARY SEWER LINE (UNDERGROUND LOCATING)
- SANITARY SEWER MANHOLE
- SANITARY SEWER CLEANOUT
- WATER LINE (SIZE INDICATED)
- WATER LINE (RECORD INFORMATION)
- WATER LINE (UNDERGROUND LOCATING)
- WATER MANHOLE
- WATER VALVE
- WATER METER
- WATER BOX
- IRRIGATION CONTROL VALVE
- FIRE HYDRANT
- BACKFLOW PREVENTER
- SPRINKLER
- HOSE BIBB
- OVERHEAD ELECTRIC LINE
- UNDERGROUND ELECTRIC LINE
- UNDERGROUND ELECTRIC LINE (RECORD INFORMATION)
- UNDERGROUND ELECTRIC LINE (UNDERGROUND LOCATING)
- ELECTRIC MANHOLE
- UTILITY POLE (WITH GUY WIRE)
- ELECTRIC METER
- ELECTRIC BOX
- STREET LIGHTING BOX
- LIGHT STANDARD
- SIGNAL LIGHT
- FLOOD LIGHT
- ELECTRICAL OUTLET
- GAS LINE (SIZE INDICATED)
- GAS LINE (RECORD INFORMATION)
- GAS LINE (UNDERGROUND LOCATING)
- GAS MANHOLE
- GAS VALVE
- GAS METER
- TELEPHONE LINE
- TELEPHONE LINE (RECORD INFORMATION)
- TELEPHONE LINE (UNDERGROUND LOCATING)
- STORM DRAIN BOX
- TRAFFIC SIGNAL BOX

BASIS OF BEARINGS:

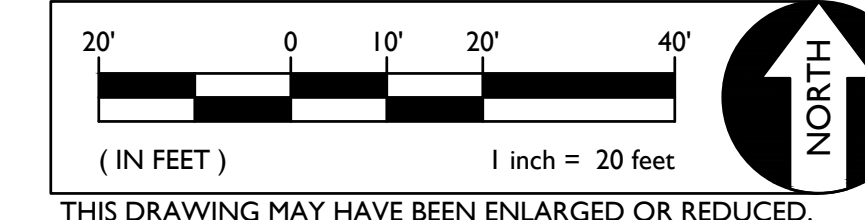
A LINE BEARING N00°4'30"W BETWEEN A FOUND 2" DISK IN CENTERLINE MONUMENT BOX AT LINCOLN BOULEVARD AND LOWELL AVENUE, AND A FOUND 2" DISK IN CENTERLINE MONUMENT BOX AT LINCOLN BOULEVARD AND MICHELLE AVENUE PER TRACT MAP 1001 NEWPORT PLACE.

NOTE: EXISTING UTILITIES BASED ON VISIBLE SURFACE STRUCTURES ONLY.

SEE SHEET C0.2 FOR BENCHMARKS

A.P.N.	232-130-100
BENCHMARK NO., CITY OF TRACY GPS #17, ELEV. 44.80	
FOUND 2" DISK IN STANDARD MONUMENT BOX ON THE CENTERLINE OF CORRAL HOLLOW ROAD AT THE NORTH LINE OF 11TH STREET.	

GRAPHIC SCALE



THIS DRAWING MAY HAVE BEEN ENLARGED OR REDUCED.

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 BASKETBALL POLE
 - BCH BACKS LAP CURBMENT
 - BFT BACK FLOW PREVENTER
 - BL BLOCK
 - BLDG BUILDING
 - BOL BOLLARD
 - BOV BLOW-OFF VALVE
 - BRK BREAK
 - B.W.F. BARBED WIRE FENCE
 - CL COMMUNICATION
 - C.L. CENTERLINE
 - CATV CABLE TELEVISION
 - CP CAPPED IRON PIPE
 - CLF CHAIN LINE FENCE
 - CMP CORRUGATED METAL PIPE
 - CO CLEANOUT
 - COL COLUMN
 - CONC CONCRETE
 - COND CONDENSATE
 - CPF CONTROL POINT FOUND
 - CPS CONTROL POINT SET
 - CPS CONCRETE SURFACE
 - D DEPTH
 - DDG DOUBLE DETECTOR CHECK VALVE
 - DF DRIVING FOUNTAIN
 - DG DECOMPOSED GRANITE
 - DI DROP INLET
 - DIA DIAMETER
 - DRWY DRIVEWAY
 - DS DOWNCUT
 - DWG DRAWING
 - E ELECTRIC
 - ESMT EDGE OF PAVEMENT
 - EX EASEMENT
 - FA FIRE ALARM
 - FDC FIRE DEPARTMENT CONNECTION
 - FPE FINISHED FLOOR ELEVATION
 - PH FIRE HYDRANT
 - FL FLOWLINE
 - FO FIBER OPTIC
 - FS FIRE SERVICE
 - G GAS
 - GR GRADE BREAK
 - GRD GRATE
 - GROD GROUND ROD BOX
 - GV GROUND VALVE
 - HB HOSE BIBB
 - HDB HEADER BOARD
 - HP HIGH PRESSURE
 - HDR HANDRAIL
 - HVE HIGH VOLTAGE ELECTRIC
 - HWF HOSE WIRE FENCE
 - ICP IRRIGATION CONTROL PANEL
 - ICV IRRIGATION CONTROL VALVE
 - INV PIPE INVERT ELEVATION
 - IRR IRRIGATION
 - JP JOINT UTILITY POLE
 - LR LUGGING
 - LVS LOW VOLTAGE ELECTRIC
 - LVE LIVE
 - MH MANHOLE
 - MS MOW STRIP
 - MSC METAL STORAGE CONTAINER
 - NTS NOT TO SCALE
 - OH OVERHEAD
 - CHANG OPEN IRON PIPE
 OIP OLD STEEL POST HOLE | PL PLANTER AREA | PRK PARKING | PIV POST INDICATOR VALVE | PRK PARKING | PRK PUBLIC UTILITY EASEMENT | PVE PAVED | PVC POLYVINYL CHLORIDE | RIM RIDDER | RIM MANHOLE RIM ELEVATION | ROW RIGHT OF WAY | RF REDUCED PRESSURE BACKFLOW PREVENTER | RWALL RETAINING WALL | RWL RAIN WATER LEADER | SD STORM DRAIN | SDMH STORM DRAIN MANHOLE | SIG SIGNAL | SL STREET LIGHT | SLB STREET LIGHT BOX | SS SANITARY SEWER | SSCO SANITARY SEWER CLEANOUT | SSMH SANITARY SEWER MANHOLE | STL STEEL | T TELEPHONE | TBALL TETHER BALL POLE | TBM TEMPORARY BENCHMARK | TOP OF CURB | TOP OF WALL | TRW TELEPHONE POLE | UG UNDERGROUND | UNK UNKNOWN | VBALL VOLLEYBALL | W WATER | WIT WITH | W/O WITHOUT | WD WOOD | WIF WROUGHT IRON FENCE | WRF WOOD RAIL FENCE | XTF TRANSFORMER | XWALK CROSSWALK |

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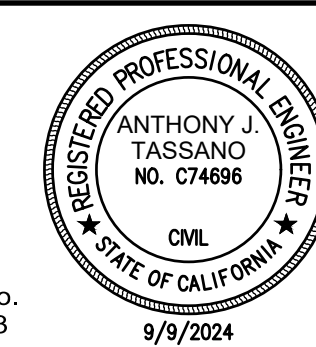
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PROJECT:

MERRILL F WEST HS AGRICULTURE CTE BLDG

SHEET NAME:

TOPOGRAPHIC SURVEY

DSA SUBMITTAL

DATE: 08/22/24

CLIENT PROJ NO:

SHEET:

C0.2

PLEASE RECYCLE

FILE: I:\24-113\CIVIL\DWG\24-113-C1.1.DWG PLOTTED: Monday, September 09, 2024 USER: SEETH

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, 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 LIVING OPERATIONS AS WELL AS ANY EXCAVATING TASKS. ANY 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.

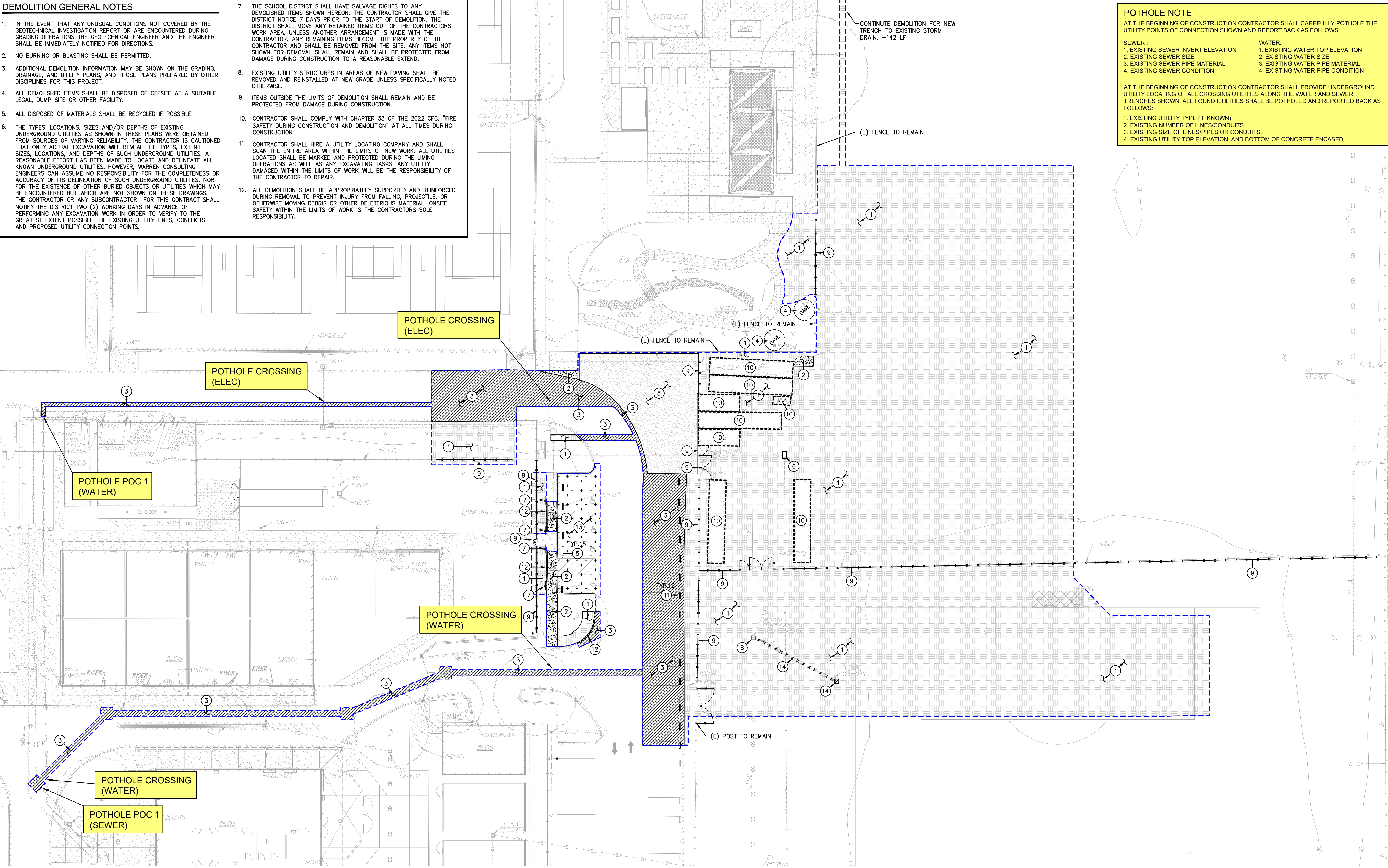
POTHOLE NOTE

AT THE BEGINNING OF CONSTRUCTION CONTRACTOR SHALL CAREFULLY POTHOLE THE UTILITY POINTS OF CONNECTION SHOWN AND REPORT BACK AS FOLLOWS:

- | | |
|------------------------------------|----------------------------------|
| SEWER: | WATER: |
| 1. EXISTING SEWER INVERT ELEVATION | 1. EXISTING WATER TOP ELEVATION |
| 2. EXISTING SEWER SIZE | 2. EXISTING WATER SIZE |
| 3. EXISTING SEWER PIPE MATERIAL | 3. EXISTING WATER PIPE MATERIAL |
| 4. EXISTING SEWER CONDITION | 4. EXISTING WATER PIPE CONDITION |

AT THE BEGINNING OF CONSTRUCTION CONTRACTOR SHALL PROVIDE UNDERGROUND UTILITY LOCATING OF ALL CROSSING UTILITIES ALONG THE WATER AND SEWER TRENCHES SHOWN. ALL FOUND UTILITIES SHALL BE POTHOLED AND REPORTED BACK AS FOLLOWS:

1. EXISTING UTILITY TYPE (IF KNOWN)
2. EXISTING NUMBER OF LINES/CONDUITS
3. EXISTING SIZE OF LINES/PIPES OR CONDUITS.
4. EXISTING UTILITY TOP ELEVATION, AND BOTTOM OF CONCRETE ENCASED.



1 DEMOLITION PLAN

SCALE 1" = 20'-0"

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 disposal that does not exceed two pounds per square foot of building area may be deemed to meet the 65 percent minimum requirement as approved by the enforcing agency.

CAL-GREEN - Waste Diversion Documentation Required

(Ref Calgreen 5.408.1.4)

Contractor shall prepare and provide documentation to the enforcing agency which demonstrates compliance with Calgreen Sections 5.408.1.1 through 5.408.1.3. The waste management plan shall be updated as necessary and shall be accessible during construction for examination by the enforcing agency.

- Notes:**
1. Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" located at <http://www.bsc.ca.gov/Home/CALGreen.aspx> may be used to assist in documenting compliance with the waste management plan.
 2. Mixed construction and demolition debris (C&D) processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).

CAL-GREEN - Excavated Soil & Land Clearing

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

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

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

UTILITY VERIFICATION NOTE

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

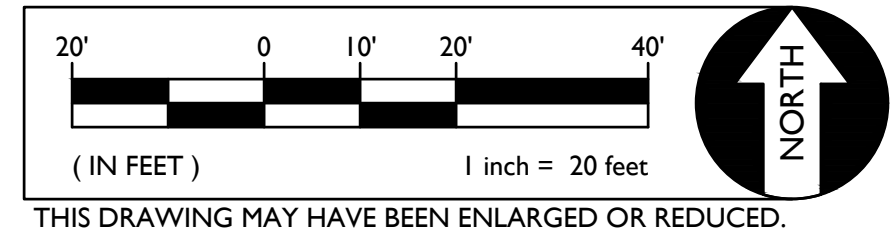
CONCRETE SAWCUT NOTE

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

IRRIGATION DEMOLITION

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

GRAPHIC SCALE



THIS DRAWING MAY HAVE BEEN ENLARGED OR REDUCED.

DEMOLITION NOTES

AND/OR

LEGEND

DEMOLITION NOTES

0. GENERAL LIMITS OF SITE DEMOLITION, SEE BELOW FOR ITEMIZED DEMOLITION ITEMS. ADDITIONAL DEMOLITION MAY EXIST BEYOND THESE LIMITS ON DRAWINGS PREPARED BY OTHERS AS PART OF THIS PROJECT.
1. REMOVE ALL PLANTS, SHRUBS, EXISTING VEGETATION. REFER TO EARTHWORK SPECIFICATIONS FOR ADDITIONAL SITE CLEARING REQUIREMENTS. SEE LANDSCAPE PLANS IN INCREMENT 2 FOR IRRIGATION DEMOLITION AND NEW INSTALLATIONS. SEE GENERAL IRRIGATION NOTE, THIS SHEET.
2. 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.
3. 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.
4. EXISTING TREE TO REMAIN AND BE PROTECTED FROM DAMAGE. PROVIDE PROTECTIVE FENCING AS NEEDED.
5. REMOVE EXISTING GRAVEL AS NEEDED FOR NEW CONSTRUCTION. GRAVEL MAY BE SALVAGED AND RE-USED AS ENGINEERED FILL OR MAY BE SPREAD UNIFORMLY OVER REMAINING BUS PARKING AREA.
6. REMOVE EXISTING UTILITY BOX, PROTECTING UTILITY. PROVIDE NEW TRAFFIC RATED BOX OF SAME SIZE, OLD CASTLE B SERIES, JENSEN HT SERIES, OR EQUAL.
7. REMOVE EXISTING SIGN TO INCLUDE POST AND CONCRETE BASE. BACKFILL VOID WITH CLASS II AB COMPACTED TO 95% IN 6" LIFTS, OR PER SECTION 31 00 00.
8. EXISTING DRAINAGE STRUCTURE TO REMAIN. SEE UTILITY PLAN FOR MODIFICATIONS.
9. REMOVE EXISTING FENCING TO INCLUDE POST AND CONCRETE BASE. BACKFILL VOID WITH CLASS II AB COMPACTED TO 95% IN 6" LIFTS, OR PER SECTION 31 00 00.
10. REMOVE AND RELOCATE EXISTING STORAGE CONTAINER TO NEW LOCATION. SEE ARCHITECTURAL PLANS FOR NEW LOCATION, DISCONNECT ALL ELECTRICAL SYSTEMS. SEE ELECTRICAL PLANS FOR ADDITIONAL INFO.
11. REMOVE EXISTING CONCRETE PARKING BLOCK.
12. REMOVE EXISTING CONCRETE CURB OR CURB GUTTER. SAWCUT ENDS NEATLY AND REMOVE COMPLETE WITH ANY REBAR.
13. GRIND EXISTING ASPHALT PAVING 1.5" DEEP TO ALLOW FOR NEW OVERLAY. SEE GRADING AND PAVING PLANS FOR NEW OVERLAY.
14. REMOVE EXISTING STORM DRAIN PIPE AND STRUCTURES AS SHOWN.

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MERRILL F WEST HS AGRICULTURE CTE BLDG

SHEET NAME:

DEMOLITION PLAN

DSA SUBMITTAL

DATE: 08/22/24

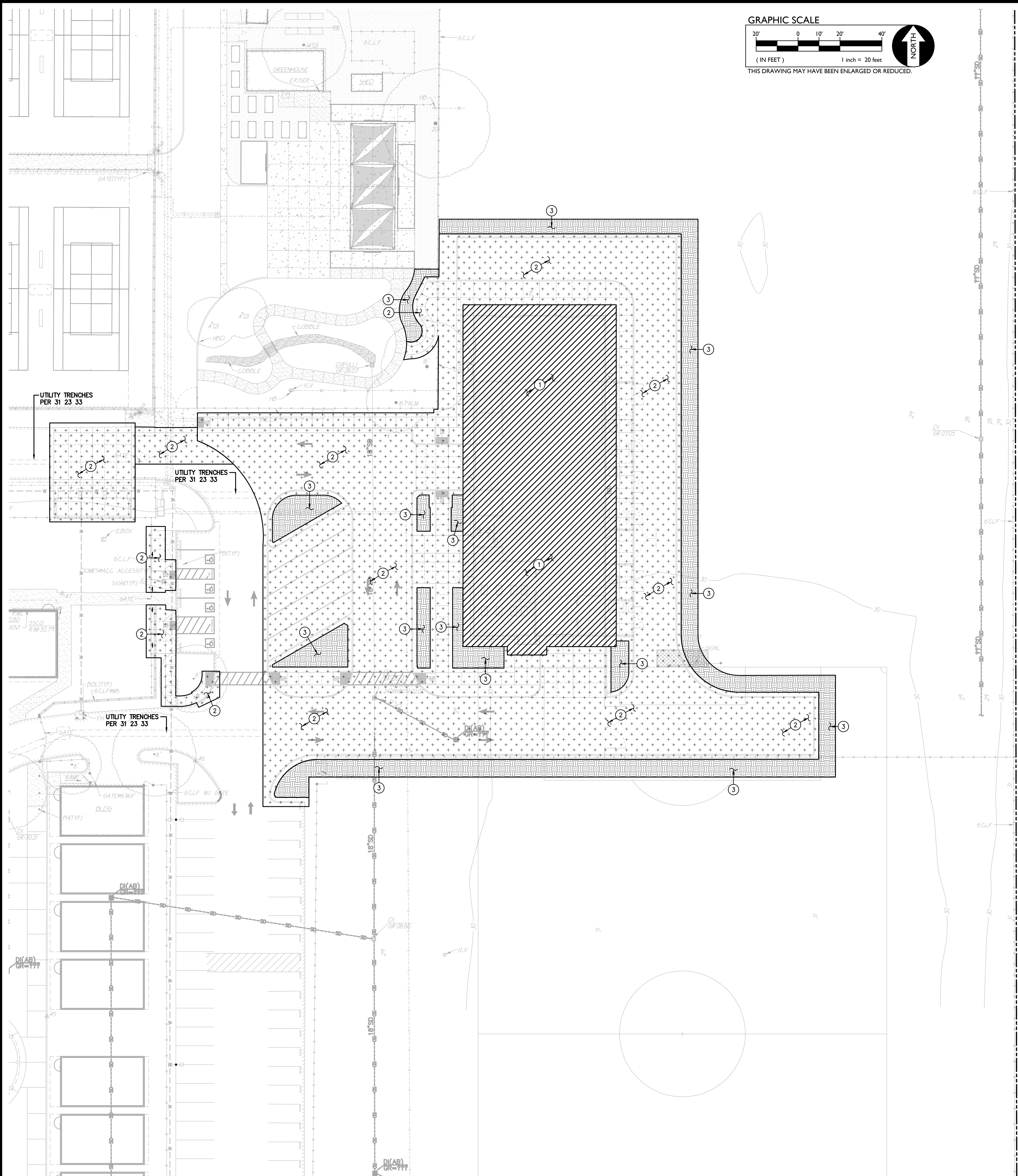
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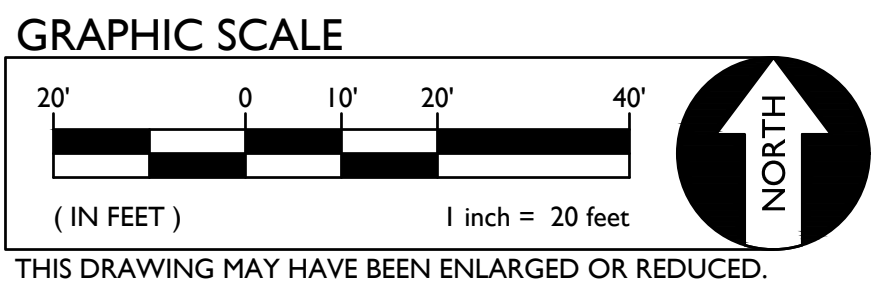
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1 ENGINEERED FILL PLAN

SCALE 1" = 10'-0"



ENGINEERED FILL GENERAL NOTES

- A SOILS REPORT WAS NOT PREPARED SPECIFIC FOR THIS PROJECT HOWEVER HISTORICAL DATA FOR THIS SITE IS CONTAINED IN THE GEOTECHNICAL AND GEOHAZARD INVESTIGATION REPORT ENTITLED:
CLASSROOM BUILDINGS AT MERRILL F WEST HIGH SCHOOL - December 8, 2022
And Pacific Engineering, Inc. No. 08030-01
CONTRACTOR MAY OBTAIN A COPY OF THE REPORT, HOWEVER, DUE TO AGE, ANY INFORMATION DERIVED FROM THIS REPORT IS AT-RISK.
- IN THE EVENT THAT ANY UNUSUAL CONDITIONS NOT COVERED IN THESE PLANS OR THE RECORD 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.
- THE ON-SITE SOILS ARE CONSIDERED SUITABLE FOR USE AS ENGINEERED FILL PROVIDED THE MATERIALS ARE FREE OF ROOTS, ORGANIC MATERIALS, OTHER DELETERIOUS DEBRIS AND ARE AT A SUITABLE MOISTURE CONTENT TO ACHIEVE THE DESIRED DEGREE OF COMPACTION. REMOVAL OF ROOTS, RUBBLE AND DEBRIS FROM THE ON-SITE SOILS MAY REQUIRE LABORERS HANDPICKING THE FILL MATERIALS. THE SURFACE LAYERS ARE ANTICIPATED TO BE EXPANSIVE IN NATURE AND NOT SUITABLE IN THE UPPER 12" OF FLATWORK, BUILDING OR OTHER PAVING SUBGRADES, SEE NOTE 8 BELOW.
- ALL FILL MATERIAL, EXISTING ONSITE OR IMPORTED, SHALL BE REVIEWED AND APPROVED BY THE SITE GEOTECHNICAL ENGINEER BEFORE USED AS ENGINEERED FILL.
- IF IMPORTED MATERIALS ARE TO BE USED AS FILLS, IT SHALL MEET THE FOLLOWING CHARACTERISTICS:
 - SHALL BE GRANULAR IN NATURE.
 - PLASTICITY INDEX NOT TO EXCEED 15.
 - EXPANSION INDEX NOT TO EXCEED 20.
 - "R"-VALUE OF EQUAL OR GREATER THAN 25.
 - SHALL NOT CONTAIN ROCKS OR PARTICLES LARGER THAN 3 INCHES IN DIAMETER.
 - SHALL BE DOCUMENTED CLEAN OF CONTAMINATION.
 - SHALL BE DOCUMENTED OR CERTIFIED NON-CORROSIVE, WITHIN ACCEPTABLE LIMITS.
- IF EXISTING EXPANSIVE SOILS ARE UNCOVERED DURING EXCAVATION, IT WILL NOT BE ALLOWED WITHIN THE UPPER 12 INCHES OF THE BUILDING PAD OR PAVING SUBGRADES. IT IS RECOMMENDED THIS MATERIAL BE REMOVED FROM THE SITE. IF THE CONTRACTOR WOULD LIKE TO EMPLOY ANOTHER METHOD TO MITIGATE FOUND EXPANSIVE SOILS, OTHER THAN THE METHODS OUTLINED HEREIN, IT MUST BE REVIEWED AND APPROVED BY THE SITE GEOTECHNICAL ENGINEER AND CIVIL ENGINEER OF RECORD.
- IN LANDSCAPE AREAS, FOLLOWING STRIPPING OF PLANT MATERIALS, STRIP THE TOP 4" OF TOPSOIL AND STOCKPILE FOR USE BY LANDSCAPER AS NEEDED. REMOVE ANY UNUSED TOPSOIL.

ENGINEERED FILL LEGEND

- 1 BUILDING PAD AREA

FOLLOWING THE SITE DEMOLITION AND STRIPPING AS OUTLINED IN THESE PLANS AND PROJECT SPECIFICATIONS, CONTRACTOR SHALL OVER-EXCAVATE TO A DEPTH OF 12" BELOW EXISTING GRADE, OR 12" BELOW PROPOSED SUBGRADE ELEVATION, WHICHEVER IS DEEPER. CONTRACTOR SHALL CONSULT ONSITE GEOTECHNICAL ENGINEER TO ENSURE THAT NO LOOSE FILLS ARE PRESENT. IF PRESENT, CONTRACTOR SHALL PROVIDE ADDITIONAL OVER-EXCAVATION TO FIRM NATIVE SOILS UNTIL OR TO THE EXTENT DETERMINED IN FIELD BY THE ONSITE GEOTECHNICAL ENGINEER. THE ADDITIONAL OVER-EXCAVATION OF FOUND LOOSE SOILS COST MAY BE SUBMITTED FOR REVIEW AND APPROVAL BUT ALL WORK SHALL BE CONFIRMED BY INSPECTOR AND SITE GEOTECHNICAL ENGINEER.

CONTRACTOR SHALL SCARIFY THE UNDERLY SOILS TO A DEPTH OF 12 INCHES, MOISTURE CONDITION TO AT LEAST 2% ABOVE THE OPTIMUM MOISTURE CONTENT AND RE-COMPACT TO AT LEAST 90% RELATIVE COMPACTION, PER ASTM D1557. PLACE FILL LIFTS THAT DO NOT EXCEED 6" WHEN COMPACTED, EACH MOISTURE CONDITIONED AND COMPACTED AS STATED ABOVE. FINAL (UPPER) 12" SUBGRADE SHALL BE COMPACTED CLASS II AB PLACED IN TWO 6" LIFTS, EACH MOISTURE CONDITIONED AND COMPACTED TO 95% RELATIVE COMPACTION IN PREPARATION FOR FOUNDATION EXCAVATIONS.

EXTENT OF TREATMENT
THE EXTENT OF THE SUBGRADE TREATMENT AS OUTLINED ABOVE SHALL EXTEND TO AT LEAST 5 FEET BEYOND THE FACE OF ALL BUILDING OR STRUCTURE AS SHOWN ON THIS PLAN. THIS PREPARATION SHALL OVERRIDE THOSE LISTED BELOW WHEN OVERLAPPING OF PREPARATION OCCURS.

AFTER FOUNDATIONS ARE EXCAVATED, SITE GEOTECHNICAL ENGINEER SHALL VERIFY THE CONDITION OF THE BOTTOM OF TRENCHES. ADDITIONAL OVER-EXCAVATION MAY BE REQUIRED BASED ON TRENCH BOTTOM SOIL CONDITIONS. ONLY THE ADDITIONAL EXCAVATION MAY BE TRACKED FOR ADDITIONAL COST AS NOTED ABOVE. CONTRACTOR SHALL KEEP FOUNDATION TRENCHES FREE OF WATER UNTIL FOUNDATIONS ARE INSTALLED. STABLE FOUNDATION TRENCHES THAT BECOME UNSTABLE FOLLOWING INUNDATION WITH RAINWATER OR OTHER WATER SOURCE SHALL BE REPAIRED AT CONTRACTOR EXPENSE.

IT IS RECOMMENDED THAT MOISTURE CONDITIONING AND COMPACTION OF THE UPPER 12" OF SUBGRADE IS COMPLETED JUST PRIOR TO PAD OR FOUNDATION CONSTRUCTION TO KEEP TRENCHES STABLE FOR FOUNDATION CONSTRUCTION.

FOLLOWING FOUNDATION CONSTRUCTION, CONTRACTOR SHALL RE-GRADE, RE-MOISTURE CONDITION AND RE-COMPACT SUBGRADE AS WITHIN FOUNDATION LIMITS AND SLOPE AS SHOWN IN PLANS TO FOUNDATION DRAINS. SEE PAVING AND PORTABLE PLANS FOR CRAWSPACE RAY SLAB THICKNESS.
- 2 PAVING AND FLATWORK AREAS

FOLLOWING THE SITE DEMOLITION AND STRIPPING AS OUTLINED IN THESE PLANS AND PROJECT SPECIFICATIONS, CONTRACTOR SHALL OVER-EXCAVATE TO A DEPTH OF 12" BELOW THE PROPOSED PAVING SUBGRADE ELEVATION OR BELOW EXISTING GRADE, WHICHEVER IS DEEPER. CONTRACTOR SHALL CONSULT ONSITE GEOTECHNICAL ENGINEER TO ENSURE THAT NO LOOSE FILLS ARE PRESENT. IF PRESENT, CONTRACTOR SHALL PROVIDE ADDITIONAL OVER-EXCAVATION TO FIRM NATIVE SOILS UNTIL OR TO THE EXTENT DETERMINED IN FIELD BY THE ONSITE GEOTECHNICAL ENGINEER. THE ADDITIONAL OVER-EXCAVATION COST MAY BE SUBMITTED FOR REVIEW AND APPROVAL BUT ALL WORK SHALL BE CONFIRMED BY INSPECTOR AND SITE GEOTECHNICAL ENGINEER.

CONTRACTOR SHALL SCARIFY THE UNDERLY SOILS TO A DEPTH OF 12 INCHES, MOISTURE CONDITION TO AT LEAST 2% ABOVE THE OPTIMUM MOISTURE CONTENT AND RE-COMPACT TO 90% RELATIVE COMPACTION, PER ASTM D1557. PLACE APPROVED ENGINEERED FILL IN LIFTS THAT DO NOT EXCEED 6" WHEN COMPACTED, EACH MOISTURE CONDITIONED AND COMPACTED AS STATED ABOVE. FINAL (UPPER) 12" SUBGRADE SHALL BE ONE OF TWO OPTIONS:

(1) PLACE 12" OF CLASS II AB PLACED IN TWO 6" LIFTS, EACH MOISTURE CONDITIONED AND COMPACTED TO 95% RELATIVE COMPACTION UP TO FINAL SUBGRADE ELEVATION.

(2) PLACE 12" MORE INCHES OF NATIVE ENGINEERED FILL UP TO FINAL SUBGRADE ELEVATION AND CHEMICALLY STABILIZE PER SECTION 31 31 00.

REGARDLESS OF OPTION, MOISTURE CONDITIONING AND COMPACTION OF THE FINAL 12" AS NOTED SHALL BE COMPLETED AS NEAR TO THE PAVEMENT OPERATIONS AS REASONABLY POSSIBLE TO MINIMIZE MOISTURE LOSS IN SUBGRADE. CONTRACTOR SHALL MAINTAIN MOISTURE CONTENT USING AN ALTERNATE MEANS OF CAPILLARY BREAK SUCH AS GEOTEXTILES. SUCH MATERIALS SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER OR THAT PURPOSE.

EXTENT OF TREATMENT
THE EXTENT OF THE TREATMENT AS OUTLINED ABOVE SHALL EXTEND TO AT LEAST 2 FEET BEYOND THE EDGE OF PAVING. THIS PREPARATION SHALL OVERRIDE THOSE LISTED BELOW WHEN OVERLAPPING OF PREPARATION OCCURS.
- 3 OTHER NON-PAVING EARTHWORK AREAS (LANDSCAPING)

FOLLOWING THE SITE DEMOLITION AND STRIPPING AS OUTLINED IN THESE PLANS AND PROJECT SPECIFICATIONS, CONTRACTOR SHALL CONSULT ONSITE GEOTECHNICAL ENGINEER TO ENSURE THAT NO LOOSE FILLS ARE PRESENT. IF PRESENT, CONTRACTOR SHALL OVER-EXCAVATE TO FIRM NATIVE SOILS.

FOR AREAS REQUIRING FILL TO SUBGRADE
CONTRACTOR SHALL SCARIFY EXISTING SOILS TO A DEPTH OF 12 INCHES, MOISTURE CONDITION TO AT LEAST 2% ABOVE THE OPTIMUM MOISTURE CONTENT AND RE-COMPACT TO 90% RELATIVE COMPACTION, PER ASTM D1557. PLACE APPROVED ENGINEERED FILL IN LIFTS THAT DO NOT EXCEED 6" WHEN COMPACTED, EACH MOISTURE CONDITIONED TO AT LEAST THE OPTIMUM MOISTURE CONTENT AND COMPACTED TO 90% RELATIVE COMPACTION. UNTIL SUBGRADE FOR TOPSOIL IS ACHIEVED, THE FINAL 10" SHALL BE COMPRISED OF NATIVE OR IMPORTED TOPSOIL, TESTED AND AMENDED AS NEEDED IN ACCORDANCE WITH LANDSCAPE SPECIFICATION. EACH SHALL BE MOISTURE CONDITIONED TO AT LEAST THE OPTIMUM MOISTURE CONTENT AND COMPACTED TO 85% RELATIVE COMPACTION.

FOR AREAS REQUIRING CUTTING TO SUBGRADE
EXCAVATE AS NEEDED TO ALLOW FOR 10" TOPSOIL SECTION. SCARIFY THE UNDERLYING SOIL TO A DEPTH OF 12 INCHES, MOISTURE CONDITION TO AT LEAST 2% ABOVE THE OPTIMUM MOISTURE CONTENT AND RE-COMPACT TO 90% RELATIVE COMPACTION. PLACE 10" OF APPROVED TOPSOIL BACK UP TO FINAL GRADE, (IN APPROVED LIFTS) EACH MOISTURE CONDITIONED TO AT LEAST THE OPTIMUM MOISTURE CONTENT AND COMPACTED TO 85% AND EACH COMPRISED OF APPROVED NATIVE OR IMPORTED TOPSOIL, TESTED AND AMENDED IN ACCORDANCE WITH LANDSCAPE SPECIFICATIONS.

EXISTING TOPSOIL LEFT IN PLACE AND UNDISTURBED IS ACCEPTABLE.

EXTENT OF TREATMENT
THE EXTENT OF THE TREATMENT AS OUTLINED ABOVE SHALL EXTEND TO THE EDGE OF SUCH AREAS AND NEED NOT EXTEND BEYOND. THIS TREATMENT SHALL BE OVERRIDDEN BY THOSE LISTED ABOVE WHEN OVERLAPPING CONDITIONS EXIST.

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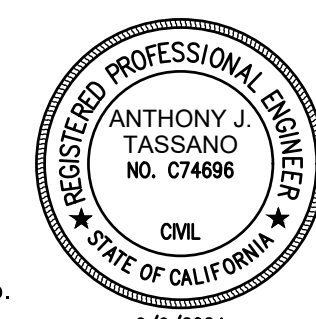
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SHEET NAME:

ENGINEERED FILL PLAN

DSA SUBMITTAL

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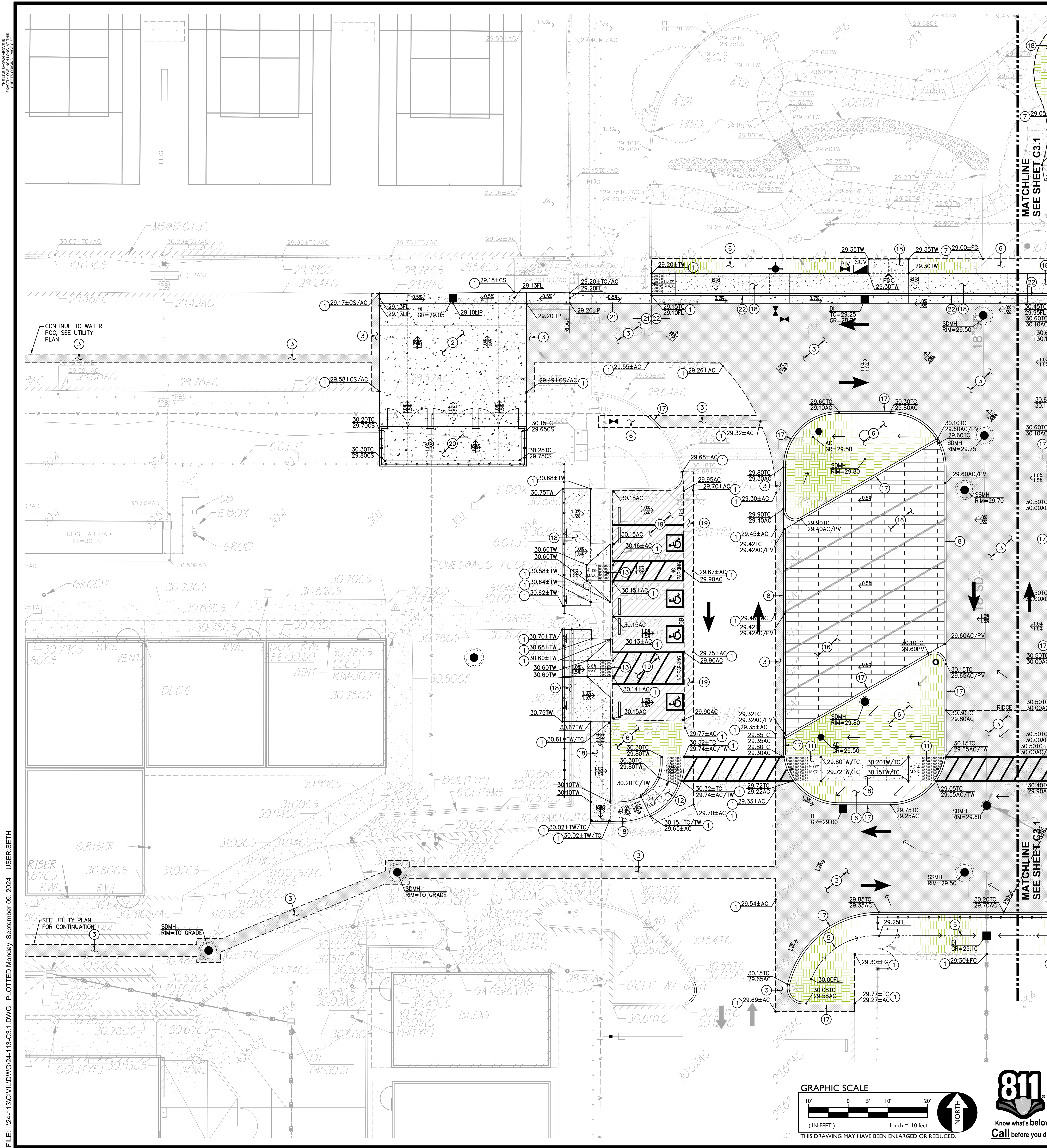
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PAVING GENERAL NOTES:

1. ASPHALT MIX SHALL MEET CALTRANS SPECIFICATIONS FOR TYPE B ASPHALTIC CONCRETE. REFERENCE CALTRANS SPECIFICATION SECTION 39, AND PROJECT SPECIFICATIONS
2. AGGREGATE BASE SHALL MEET CALTRANS SPECIFICATIONS FOR CLASS II AGGREGATE BASE. REFERENCE CALTRANS SPECIFICATION SECTION 26, AND PROJECT SPECIFICATIONS
3. ALL AGGREGATE BASE SHALL BE MOISTURE CONDITIONED TO, OR SLIGHTLY ABOVE, OPTIMUM MOISTURE CONTENT AND COMPACTED TO 95% RELATIVE COMPACTION.
4. RECYCLED ASPHALT PAVING (RAP) MAY BE USED AS CLASS II BASE MATERIAL PROVIDED IT MEETS CALTRANS SPECIFICATIONS FOR CLASS II AB, REFERENCE CALTRANS SPECIFICATION SECTION 26-1.02A. SEE ALSO MATERIALS TESTING REQUIREMENTS IN SPECIFICATION SECTION 31 00 00, 1.13 AND 2.1.B.
5. PAVEMENT SUBGRADE PREPARATION, I.E. SCARIFICATION, MOISTURE CONDITIONING, LIME TREATMENT (IF USED), AND COMPACTION SHALL BE PERFORMED AFTER THE INSTALLATION OF UNDERGROUND UTILITIES AND TRENCHES BACKFILLED IN ACCORDANCE WITH THESE PLANS.
6. ALL AREAS DISTURBED BY GRADING, DEMOLITION, OR CONSTRUCTION ACCESS, WHICH ARE NOT SURFACED BY THIS SET OF PLANS, OR LANDSCAPE PLANS, SHALL BE SEEDED WITH EROSION CONTROL TYPE NON-WATERED SEED MIX. REFER TO EROSION CONTROL SPECIFICATIONS FOR ACCEPTABLE SEED MIXES.
7. ALL NEW ASPHALT PAVING SHALL RECEIVE SEALCOAT, 2 COATS, MIN. REFER TO PROJECT SPECIFICATIONS, WITH EXCEPTION TO THE TRACK PAVING. NO SEALCOAT ON THE TRACK PAVEMENT. CONTRACTOR SHALL ALLOW FOR 30 DAYS MIN. OF ASPHALT PAVEMENT CURING PRIOR TO SEALCOAT PLACEMENT. IF CONTRACTORS SCHEDULE DOES NOT PERMIT CURING, CONTRACTOR WILL PROVIDE, AT HIS COST, TEMPORARY STRIPING. TEMPORARY STRIPING SHALL BE REMOVED AFTER CURING PERIOD AND SEALCOAT APPLIED WITH NEW REPLACEMENT STRIPING. CONTRACTOR SHALL COORDINATE THIS WORK WITH THE OWNER/DISTRICT.

CONCRETE FINISH GENERAL NOTES

1. REFER TO ARCHITECTURAL PLANS FOR ANY SPECIAL CONCRETE FINISHES SPECIFIED WHICH SHALL OVERRIDE THOSE SPECIFIED BELOW.
2. PROVIDE EQUIVALENT OF MEDIUM BROOM FINISH AT SLOPES UP TO 5.99% TYPICAL.
3. PROVIDE EQUIVALENT OF HEAVY BROOM FINISH AT SLOPES 6% AND GREATER.

CONTRACTORS OPTION

1. AT CONTRACTORS OPTION:
1. #4 REBAR AT 24" O.C.E.W. = #3 BARS AT 18" O.C.E.W.
2. #4 REBAR AT 18" O.C.E.W. = #3 BARS AT 12" O.C.E.W.

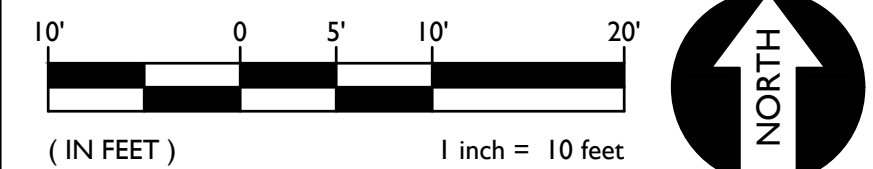
ACCESSIBILITY NOTES

1. FOR ACCESSIBLE PATH OF TRAVEL REQUIREMENTS SEE ARCHITECTURAL SHEETS.
2. PERCENT OF SLOPE SHOWN ON ARROWS ARE TARGET SLOPES, MAXIMUM SLOPES WHEN DEFINED AS "MAX", AND MINIMUM SLOPES WHEN DEFINED AS "MIN". SLOPES SHOWN ARE NOT INTENDED TO SUPERCEDE SLOPES DEFINED BY SPOT ELEVATIONS.
EXAMPLES: $\leq 1.0\%$ $\leq 1.0\%$ $\leq 1.0\%$
MIN MAX MIN
3. WITHIN THE LIMITS OF NEW OR EXISTING ACCESSIBLE PARKING AREAS AND ACCESSIBLE DROP OFF ZONES (INCLUDING VEHICLE STANDING SPACE), THE SLOPE OF PAVEMENT SHALL NOT EXCEED 1.8% IN ANY DIRECTION.

LEGEND

1. MATCH EXISTING GRADE/ELEVATION. WHEN MATCHING SLABS TO EXISTING, DOWEL SLABS PER THE DETAIL PROVIDED AT 24" O.C.
2. PLACE 6" PCC OVER 8" CLASS II AB OVER EXCAVATED, SCARIFIED AND COMPACTED SUBGRADE PER SHEET C2.1. PLACE #4 REBAR AT 18" O.C.E.W. OR AS STATED IN THE PROJECT SPECIFICATIONS, WHICHEVER IS GREATER. ENGINEERED FILLS AND SUBGRADE SHALL BE PLACED AND COMPACTED PER SPECIFICATION SECTION 31 00 00. SOIL STABILIZATION PER 31 32 00 (IF SELECTED) AND CONCRETE PER SECTION 32 16 00. REFER ALSO TO DETAILS PROVIDED. CONCRETE FLATWORK TO COMPLY WITH 2019 CBC 11B-403.3
3. PLACE 3" AC OVER 12" CLASS II AB OVER EXCAVATED, SCARIFIED AND COMPACTED SUBGRADE PER SHEET C2.1. SUBGRADE SHALL BE PLACED AND COMPACTED PER SPECIFICATION SECTION 31 00 00. SOIL STABILIZATION PER 31 32 00 (IF SELECTED) AND ASPHALT PER SPECIFICATION SECTION 32 12 00. PROVIDE SEALCOAT PER SPECIFICATIONS, 2 COATS.
4. CONSTRUCT 18" WIDE CONCRETE APRON AT BUILDING EDGE PER THE DETAIL PROVIDED. SEE BUILDING PLANS FOR TRANSITIONS/FLASHINGS, ETC.
5. GRADE UNIFORM SWALE AS SHOWN. RUNNING SLOPE SHALL BE NO LESS THAN 0.5% AND SIDE SLOPES NOT EXCEEDING 4H:1V.
6. PROVIDE LANDSCAPING AS INDICATED ON LANDSCAPE DRAWINGS. WHERE NONE SHOWN, REPAIR EXISTING LANDSCAPING AND IRRIGATION SYSTEMS. SEE PAVING PLAN FOR ADDITIONAL INSTRUCTION IN THESE AREAS. IN NEW PLANTING AREAS, PLACE 8" LAYER NATIVE OR IMPORTED TOPSOIL AND PROVIDE NEW LANDSCAPING AS SHOWN ON THE LANDSCAPE AND IRRIGATION PLANS. SUBGRADE AND TOPSOIL SHALL BE PLACED AND COMPACTED PER SHEET C2.1 AND SPECIFICATION SECTION 31 00 00. EXISTING UNDISTURBED TOPSOIL MAY REMAIN IN PLACE IF MOSTLY UNDISTURBED. REFER TO LANDSCAPE SPECIFICATIONS FOR SOIL TESTING, AMENDMENTS AND OTHER INFORMATION. IF SOIL STABILIZATION USED IN ADJOINING SUBGRADE, SUCH SOILS SHALL BE EXCAVATED OUT OF PLANTER LIMITS AFTER PAVING COMPLETE AND REPLACED WITH ENGINEERED FILL TOPPED WITH TOPSOIL PER SHEET C2.1.
7. MATCH CONCRETE WALKWAY ELEVATION TO BUILDING FINISHED FLOOR ELEVATION. SEE PORTABLE MANUFACTURER THRESHOLD DETAILS. MINOR ADJUSTMENT TO ELEVATION SHOWN MAY BE NECESSARY BASED ON FIELD CONDITIONS.
8. CONSTRUCT FLUSH CONCRETE CURB PER THE DETAIL PROVIDED.
9. SEE ARCH. PLANS FOR ALL NEW FENCING AND GATES.
10. REMOVE EXISTING VAULT/BOX. PROVIDE NEW TRAFFIC RATED VAULT/BOX SET FLUSH WITH PROPOSED GRADE AND SLOPE SHOWN. SEE UTILITY PLANS FOR ADDITIONAL INFORMATION.
11. CONSTRUCT TYPE 1 ACCESSIBLE CONCRETE CURB RAMP PER THE DETAIL PROVIDED.
12. CONSTRUCT TYPE 2 ACCESSIBLE CONCRETE CURB RAMP PER THE DETAIL PROVIDED.
13. CONSTRUCT TYPE 3 ACCESSIBLE CONCRETE CURB RAMP PER THE DETAIL PROVIDED.
14. EQUIPMENT, SEE ARCHITECTURAL/MECHANICAL AND ELECTRICAL PLANS.
15. SEE ARCHITECTURAL PLANS FOR ALL NEW FENCING AND GATES.
16. CONSTRUCT CONCRETE PAVERS OVER DRAINAGE AND BASE AGGREGATES PER THE DETAILS PROVIDED.
17. CONSTRUCT CONCRETE CURB PER THE DETAIL PROVIDED.
18. PLACE 5" PCC OVER 8" CLASS II AB OVER EXCAVATED, SCARIFIED AND COMPACTED SUBGRADE PER SHEET C2.1. PLACE #4 REBAR AT 24" O.C.E.W. OR AS STATED IN THE PROJECT SPECIFICATIONS, WHICHEVER IS GREATER. ENGINEERED FILLS AND SUBGRADE SHALL BE PLACED AND COMPACTED PER SPECIFICATION SECTION 31 00 00. SOIL STABILIZATION PER 31 32 00 (IF SELECTED) AND CONCRETE PER SECTION 32 16 00. REFER ALSO TO DETAILS PROVIDED. CONCRETE FLATWORK TO COMPLY WITH 2019 CBC 11B-403.3
19. TRACK COAT AND OVERLAY EXISTING ASPHALT PAVING TO ACHIEVE NEW GRADES SHOWN. ASPHALT THICKNESS VARIES, BUT SHALL BE 1.5" MINIMUM. SEE DEMO PLAN FOR GRINDING. SEE SECTION 32 12 00 FOR ASPHALT.
20. CONSTRUCT TRASH ENCLOSURE PER THE DETAIL PROVIDED. SEE ARCH. PLANS FOR FENCING AND GATES.
21. CONSTRUCT CONCRETE VALLEY GUTTER PER THE DETAIL PROVIDED.
22. CONSTRUCT CONCRETE CURB GUTTER PER THE DETAIL PROVIDED.
23. TAPER UNIFORMLY FROM VERTICAL CURB TO FLUSH CURB BETWEEN SPOT GRADES INDICATED.

GRAPHIC SCALE



THIS DRAWING MAY HAVE BEEN ENLARGED OR REDUCED.



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(916) 955-1870

Consultant:



FACILITY:

MERRILL F WEST HIGH SCHOOL
1775 W LOWELL AVE
TRACY, CA 95376

PROJECT:

MERRILL F WEST HS AGRICULTURE CTE BLDG

SHEET NAME:

GRADING PLAN

DSA SUBMITTAL

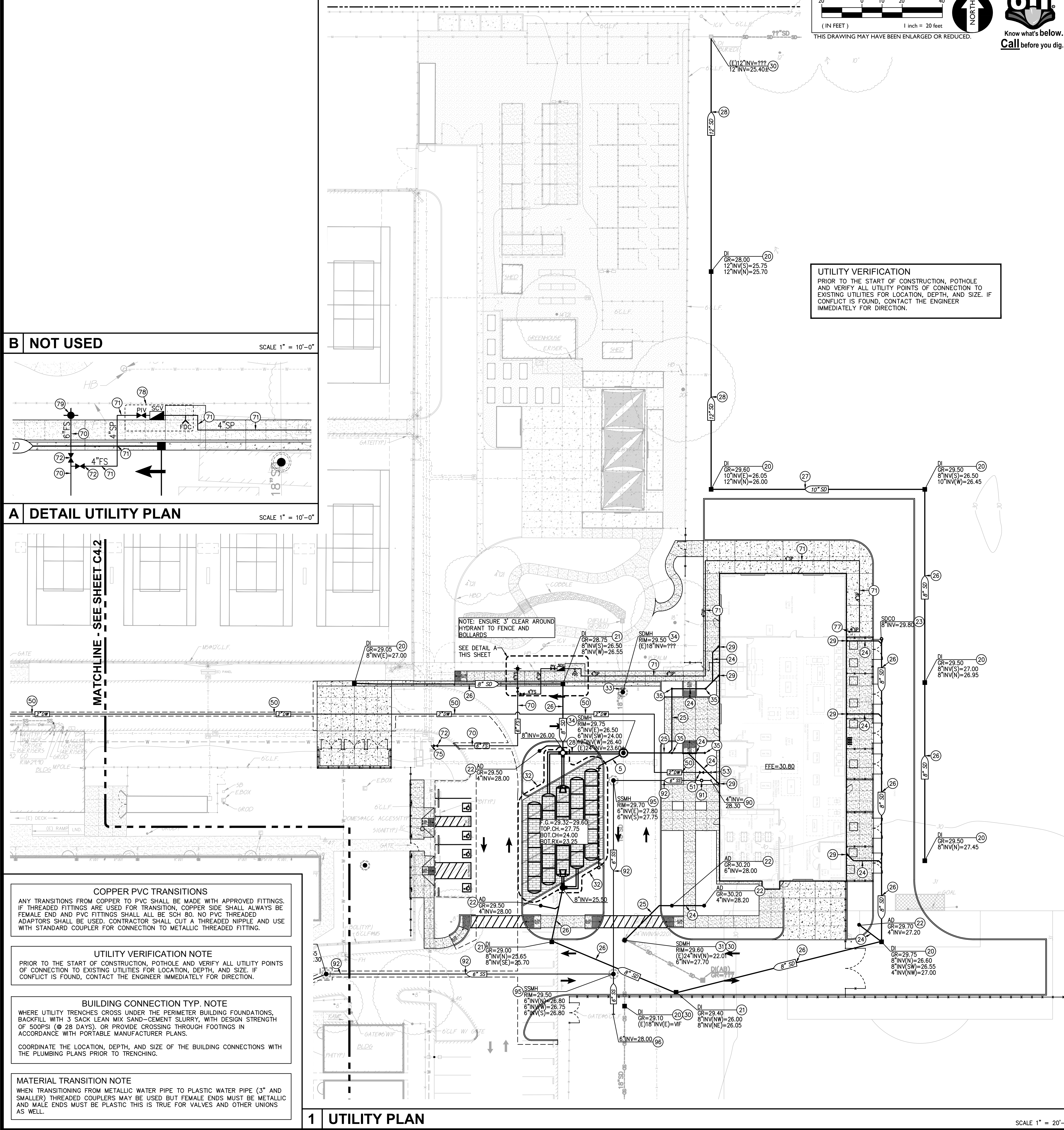
DATE: 08/22/24

CLIENT PROJ NO:

SHEET:

C3.2

PLEASE RECYCLE



DRAINAGE CONSTRUCTION NOTES

20. CONSTRUCT 24" STORM DRAIN INLET PER THE DETAIL PROVIDED. 17
C7.2
21. CONSTRUCT HOODED CURB INLET STRUCTURE PER THE DETAIL PROVIDED. 19
C7.2
22. CONSTRUCT AREA DRAIN WITH ACCESSIBLE COVER PER THE DETAIL PROVIDED. 2
C7.2
23. CONSTRUCT STORM DRAIN CLEANOUT PER THE DETAIL PROVIDED. 4
C7.2
24. PROVIDE AND INSTALL 4" STORM DRAIN, PVC SDR-35, SLOPE VARIES PER INVERTS SHOWN, BUT 0.010 MIN. (1.00%), UNLESS SPECIFICALLY NOTED OTHERWISE. 3 4
C7.2 C7.2
25. PROVIDE AND INSTALL 6" STORM DRAIN, PVC SDR-35, SLOPE VARIES PER INVERTS SHOWN, BUT 0.010 MIN. (1.00%), UNLESS SPECIFICALLY NOTED OTHERWISE. 3 4
C7.2 C7.2
26. PROVIDE AND INSTALL 8" STORM DRAIN, PVC SDR-35, SLOPE VARIES PER INVERTS SHOWN, BUT 0.0050 MIN. (0.50%), UNLESS SPECIFICALLY NOTED OTHERWISE. 5
C7.2
27. PROVIDE AND INSTALL 10" STORM DRAIN, PVC SDR-35, SLOPE VARIES PER INVERTS SHOWN, BUT 0.0030 MIN. (0.30%), UNLESS SPECIFICALLY NOTED OTHERWISE. 5
C7.2
28. PROVIDE AND INSTALL 12" STORM DRAIN, PVC SDR-35, SLOPE VARIES PER INVERTS SHOWN, BUT 0.0025 MIN. (0.25%), UNLESS SPECIFICALLY NOTED OTHERWISE. 5
C7.2
29. CONNECT TO BUILDING DOWNSPOUT PER THE DETAIL PROVIDED. COORDINATE WITH BUILDING PLUMBING INSTALLER. 5
C7.2
30. CONNECT TO EXISTING STORM DRAIN PIPE OR STRUCTURE AS SHOWN. PROVIDE ALL COUPLERS, FITTINGS, GROUT OR OTHER MATERIALS AS NEEDED TO MAKE CONNECTION. VERIFY LOCATION AND DEPTH PRIOR TO TRENCHING. IF CONFLICT IS FOUND WITH DEPTH, LOCATION, SIZE OR CONDITION OF EXISTING, CONTACT ARCHITECT IMMEDIATELY FOR ADJUST.
31. ADJUST/REPAIR DRAIN STRUCTURE FRAME AND COVER TO PROPOSED FINISHED GRADE. PAVING AS NEEDED. SEE GRADING PLAN FOR FINISHED GRADE ELEVATIONS. 8
C8.2
32. CONSTRUCT ADS MC 3500 SUBSURFACE RETENTION SYSTEM PER THE DETAILS PROVIDED, OR APPROVED EQUAL. 1
C7.4
33. PROVIDE AND INSTALL FULL TRASH CAPTURE SCREEN, BIOCLEAN CPS 36" TALL MINIMUM, OR APPROVED EQUAL. 20
C7.2
34. CONSTRUCT 48" MANHOLE PER THE DETAIL PROVIDED. 8
C7.3
35. CONSTRUCT PLANTER DRAIN PER THE DETAIL PROVIDED. 7
C7.2



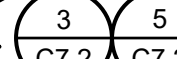

DOMESTIC WATER CONSTRUCTION NOTES

50. PLACE 2" PVC SCH 80 WATER, OR APPROVED EQUAL REFER TO TRENCHING DETAIL PROVIDED. (12)
C7.2
51. INSTALL GATE VALVE VALVE BOX PER THE DETAIL PROVIDED. VALVE SIZE SHALL MATCH LINE SIZE. (13)
C7.4
52. CONNECT TO EXISTING WATER MAIN, POTHOLE TO VERIFY LOCATION, SIZE AND CONDITION PRIOR TO CONSTRUCTION. IF CONFLICT IS FOUND, CONTACT ARCHITECT FOR DIRECTION.
53. CONNECT TO BUILDING WATER SERVICE POINT. COORDINATE WITH PORTABLE BUILDING INSTALLER/PLUMBER FOR EXACT LOCATION AND DEPTH. CONTACT ARCHITECT IMMEDIATELY IF CONFLICTS FOUND. GENERAL CONTRACTOR SHALL MAKE ALL NECESSARY CONNECTIONS FROM SITE UTILITIES TO MANUFACTURED BUILDING. PROVIDE ALL FITTINGS, COUPLERS AND REDUCERS AS NEEDED TO MAKE CONNECTIONS.

PRIVATE FIRE SYSTEM NOTES

70. TRENCH AND INSTALL 6" PVC C900 DR 18, OR DIP CL350, WATER MAIN WITH THRUST BLOCKING AT ALL BENDS, FITTINGS AND JUNCTIONS PER THE DETAILS PROVIDED. (12)
C7.2 (10)
C7.2
71. TRENCH AND INSTALL 4" PVC C900 DR 14 FIRE SPRINKLER SERVICE LINE, OR DIP CL350, WATER MAIN WITH THRUST BLOCKING AT ALL BENDS, FITTINGS AND JUNCTIONS PER THE DETAILS PROVIDED. (12)
C7.2 (10)
C7.2
72. CONSTRUCT MAIN WATER VALVE WITH TRAFFIC RATED VALVE BOX AND THRUST BLOCKING PER THE DETAIL PROVIDED. VALVE SIZE SHALL MATCH LINE SIZE. (11)
C7.2
73. CAP AND END WITH BLIND FLANGE & THRUST BLOCK FOR FUTURE CONNECTION. (10)
C7.2
74. CONSTRUCT PROTECTIVE PIPE BOLLARDS PER THE DETAIL PROVIDED. ENSURE THERE IS 3" CLEARANCE BETWEEN BOLLARD AND PROTECTED DEVICE/FEATURE PER CFC 312. (1)
C7.2
75. CONNECT TO EXISTING WATER MAIN, POTHOLE TO VERIFY LOCATION, DEPTH, SIZE AND CONDITION OF EXISTING MAIN PRIOR TO TRENCHING. IF CONFLICT FOUND, CONTACT ARCHITECT. PROVIDE ALL FITTINGS AND COUPLERS AS NEEDED TO MAKE CONNECTION.
76. BACKFILL TRENCH WITH 2 SACK LEAN MIX SLURRY WITHIN LIMITS SHOWN.
77. PROVIDE AND INSTALL S.S. ONE-PIECE RISER AND EXTERIOR RISER ASSEMBLY, AMES IBR OR APPROVED EQUAL. CONNECT ONE-PIECE RISER ASSEMBLY TO SITE PIPES WITH APPROVED JOINT RESTRAINT. SEE FIRE SPRINKLER DRAWINGS FOR RISER ASSEMBLY AND WALL PENETRATIONS. CONTRACTOR SHALL COORDINATE STUB HEIGHT AND CONNECTION TYPE (GROOVE OR FLANGE) WITH FIRE SPRINKLER DRAWINGS AND FIRE SPRINKLER INSTALLER. SEE DETAIL. (9)
C7.3
78. CONSTRUCT FIRE DEPARTMENT CONNECTION ASSEMBLY WITH PIV, SINGLE CHECK VALVE AND FDC, WITH SIGNAGE. PER THE DETAILS PROVIDED. (10)
C7.3 (11)
C7.3
79. CONSTRUCT FIRE HYDRANT PER THE DETAIL PROVIDED. (18)
C7.1

SANITARY SEWER NOTES

90. CONNECT TO BUILDING SEWER SERVICE POINT. COORDINATE LOCATION, DEPTH AND LAYOUT WITH THE PLUMBING PLANS AND PLUMBING INSTALLER. PROVIDE 2-WAY CLEANOUT WITH BOX, SEE PLUMBING PLANS, CONFORM TO CPC CURRENT EDITION.
91. CONSTRUCT SEWER CLEANOUT PER THE DETAIL PROVIDED. 
92. PLACE 6" SEWER LINE, PVC SDR-35, SLOPE VARIES, 1.00% MIN. 
93. PLACE 4" SEWER LINE, PVC SDR-35, SLOPE VARIES, 1.75% MIN. 
94. CONNECT TO EXISTING SEWER PIPELINE OR STRUCTURE AS SHOWN. POTHOLE TO VERIFY LOCATION, DEPTH, SIZE AND CONDITION OF EXISTING SEWER PRIOR TO TRENCH. PROVIDE ALL FITTINGS, COUPLERS AND ADAPTORS AS NEEDED TO MAKE CONNECTION. IF CONFLICTS FOUND, CONTACT ARCHITECT FOR DIRECTION.
95. CONSTRUCT 48" SEWER MANHOLE PER THE DETAIL PROVIDED. 
96. CAP AND MARK END FOR FUTURE EXTENSION.

APPROVAL:

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UNIFIED SCHOOL DISTRICT

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JOB No. 24-113



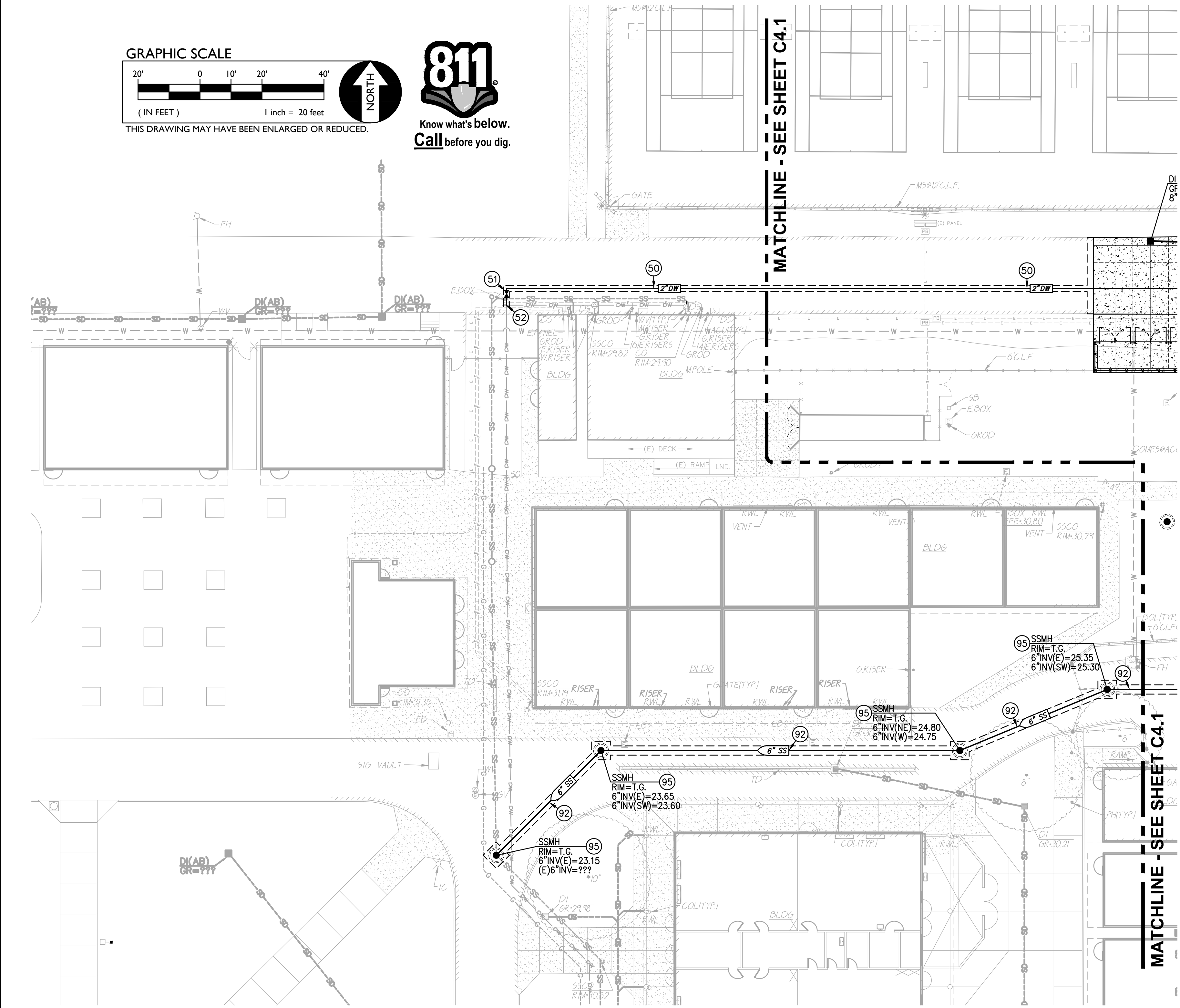
9/9/2024

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TRACY, CA 95376

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UTILITY PLAN	
DSA SUBMITTAL	
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SHEET:	

FILE: I:\24-113\CV\ILD\WG24-113-C4.1.DWG PLOTTED: Monday, September 09, 2024 USER: SETH



1 UTILITY PLAN

SCALE 1" = 20'-0"

UTILITY VERIFICATION
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.

- COPPER PVC TRANSITIONS

ANY TRANSITIONS FROM COPPER TO PVC SHALL BE MADE WITH APPROVED FITTINGS. IF THREADED FITTINGS ARE USED FOR TRANSITION, COPPER SIDE SHALL ALWAYS BE FEMALE END AND PVC FITTINGS SHALL ALL BE SCH 80. NO PVC THREADED ADAPTORS SHALL BE USED. CONTRACTOR SHALL CUT A THREADED NIPPLE AND USE WITH STANDARD COUPLER FOR CONNECTION TO METALLIC THREADED FITTING.
- 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.
- BUILDING CONNECTION TYP. NOTE

WHERE UTILITY TRENCHES CROSS UNDER THE PERIMETER BUILDING FOUNDATIONS, BACKFILL WITH 3 SACK LEAN MIX SAND-CEMENT SLURRY, WITH DESIGN STRENGTH OF 500PSI (28 DAYS). OR PROVIDE CROSSING THROUGH FOOTINGS IN ACCORDANCE WITH PORTABLE MANUFACTURER PLANS.

COORDINATE THE LOCATION, DEPTH, AND SIZE OF THE BUILDING CONNECTIONS WITH THE PLUMBING PLANS PRIOR TO TRENCHING.
- 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.

⑧ DRAINAGE CONSTRUCTION NOTES

- CONSTRUCT 24" STORM DRAIN INLET PER THE DETAIL PROVIDED.
- CONSTRUCT HOODED CURB INLET STRUCTURE PER THE DETAIL PROVIDED.
- CONSTRUCT AREA DRAIN WITH ACCESSIBLE COVER PER THE DETAIL PROVIDED.
- CONSTRUCT STORM DRAIN CLEANOUT PER THE DETAIL PROVIDED.
- PROVIDE AND INSTALL 4" STORM DRAIN, PVC SDR-35. SLOPE VARIES PER INVERTS SHOWN, BUT 0.010 MIN. (1.00%), UNLESS SPECIFICALLY NOTED OTHERWISE
- PROVIDE AND INSTALL 6" STORM DRAIN, PVC SDR-35. SLOPE VARIES PER INVERTS SHOWN, BUT 0.010 MIN. (1.00%), UNLESS SPECIFICALLY NOTED OTHERWISE
- PROVIDE AND INSTALL 8" STORM DRAIN, PVC SDR-35. SLOPE VARIES PER INVERTS SHOWN, BUT 0.0050 MIN. (0.50%), UNLESS SPECIFICALLY NOTED OTHERWISE
- PROVIDE AND INSTALL 10" STORM DRAIN, PVC SDR-35. SLOPE VARIES PER INVERTS SHOWN, BUT 0.0030 MIN. (0.30%), UNLESS SPECIFICALLY NOTED OTHERWISE
- PROVIDE AND INSTALL 12" STORM DRAIN, PVC SDR-35. SLOPE VARIES PER INVERTS SHOWN, BUT 0.0025 MIN. (0.25%), UNLESS SPECIFICALLY NOTED OTHERWISE
- CONNECT TO BUILDING DOWNSPOUT PER THE DETAIL PROVIDED. COORDINATE WITH BUILDING PLUMBING INSTALLER.
- CONNECT TO EXISTING STORM DRAIN PIPE OR STRUCTURE AS SHOWN. PROVIDE ALL COUPLERS, FITTINGS, GROUT OR OTHER MATERIALS AS NEEDED TO MAKE CONNECTION. VERIFY LOCATION AND DEPTH PRIOR TO TRENCHING. IF CONFLICT IS FOUND WITH DEPTH, LOCATION, SIZE OR CONDITION OF EXISTING, CONTACT ARCHITECT IMMEDIATELY FOR DIRECTION.
- ADJUST/REPAIR DRAIN STRUCTURE FRAME AND COVER TO PROPOSED FINISHED GRADE AND PAVING AS NEEDED. SEE GRADING PLAN FOR FINISHED GRADE ELEVATIONS.
- CONSTRUCT SUBSURFACE RETENTION SYSTEM PER THE DETAILS PROVIDED.
- PROVIDE AND INSTALL FULL TRASH CAPTURE SCREEN, BIOCLEAN CPS 36" TALL MINIMUM, OR APPROVED EQUAL.
- CONSTRUCT 48" MANHOLE PER THE DETAIL PROVIDED.
- CONSTRUCT PLANTER DRAIN PER THE DETAIL PROVIDED.

⑦ DOMESTIC WATER CONSTRUCTION NOTES

- PLACE 2" PVC SCH 80 WATER, OR APPROVED EQUAL. REFER TO TRENCHING DETAIL PROVIDED.
- INSTALL GATE VALVE VALVE BOX PER THE DETAIL PROVIDED. VALVE SIZE SHALL MATCH LINE SIZE.
- CONNECT TO EXISTING WATER MAIN. POTHOLE TO VERIFY LOCATION, SIZE AND CONDITION PRIOR TO CONSTRUCTION. IF CONFLICT IS FOUND, CONTACT ARCHITECT FOR DIRECTION.
- CONNECT TO BUILDING WATER SERVICE POINT. COORDINATE WITH PORTABLE BUILDING INSTALLER/PLUMBER FOR EXACT LOCATION AND DEPTH. CONTACT ARCHITECT IMMEDIATELY IF CONFLICTS FOUND. GENERAL CONTRACTOR SHALL MAKE ALL NECESSARY CONNECTIONS FROM SITE UTILITIES TO MANUFACTURED BUILDING. PROVIDE ALL FITTINGS, COUPLERS AND REDUCERS AS NEEDED TO MAKE CONNECTIONS.

⑦ PRIVATE FIRE SYSTEM NOTES

- TRENCH AND INSTALL 6" PVC C900 DR 18, OR DIP CL350, WATER MAIN WITH THRUST BLOCKING AT ALL BENDS, FITTINGS AND JUNCTIONS PER THE DETAILS PROVIDED.
- TRENCH AND INSTALL 4" PVC C900 DR 14 FIRE SPRINKLER SERVICE LINE, OR DIP CL350, WATER MAIN WITH THRUST BLOCKING AT ALL BENDS, FITTINGS AND JUNCTIONS PER THE DETAILS PROVIDED.
- CONSTRUCT MAIN WATER VALVE WITH TRAFFIC RATED VALVE BOX AND THRUST BLOCKING PER THE DETAIL PROVIDED. VALVE SIZE SHALL MATCH LINE SIZE.
- CAP AND END WITH BLIND FLANGE & THRUST BLOCK FOR FUTURE CONNECTION.
- CONSTRUCT PROTECTIVE PIPE BOLLARDS PER THE DETAIL PROVIDED. ENSURE THERE IS 3' CLEARANCE BETWEEN BOLLARD AND PROTECTED DEVICE/FEATURE PER CFC 312.
- CONNECT TO EXISTING WATER MAIN. POTHOLE TO VERIFY LOCATION, DEPTH, SIZE AND CONDITION OF EXISTING MAIN PRIOR TO TRENCHING. IF CONFLICT FOUND, CONTACT ARCHITECT. PROVIDE ALL FITTINGS AND COUPLERS AS NEEDED TO MAKE CONNECTION.
- BACKFILL TRENCH WITH 2 SACK LEAN MIX SLURRY WITHIN LIMITS SHOWN.
- PROVIDE AND INSTALL S.S. ONE-PIECE RISER AND EXTERIOR RISER ASSEMBLY, AMES 1BR OR APPROVED EQUAL. CONNECT ONE-PIECE RISER ASSEMBLY TO SITE PIPELINE WITH APPROVED JOINT RESTRAINT. SEE FIRE SPRINKLER DRAWINGS FOR RISER ASSEMBLY AND WALL PENETRATIONS. CONTRACTOR SHALL COORDINATE STUB HEIGHT AND CONNECTION TYPE (GROOVE OR FLANGE) WITH FIRE SPRINKLER DRAWINGS AND FIRE SPRINKLER INSTALLER. SEE DETAIL.
- CONSTRUCT FIRE DEPARTMENT CONNECTION ASSEMBLY WITH PIV, SIGNAL CHECK VALVE AND FDC, WITH SIGNAGE, PER THE DETAILS PROVIDED.
- CONSTRUCT FIRE HYDRANT PER THE DETAIL PROVIDED.

⑧ SANITARY SEWER NOTES

- CONNECT TO BUILDING SEWER SERVICE POINT. COORDINATE LOCATION, DEPTH AND LAYOUT WITH THE PLUMBING PLANS AND PLUMBING INSTALLER. PROVIDE 2-WAY CLEANOUT WITH BOX, SEE PLUMBING PLANS, CONFORM TO CPC CURRENT EDITION.
- CONSTRUCT SEWER CLEANOUT PER THE DETAIL PROVIDED.
- PLACE 6" SEWER LINE, PVC SDR-35, SLOPE VARIES, 1.00% MIN.
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- CONSTRUCT 48" SEWER MANHOLE PER THE DETAIL PROVIDED.
- CAP AND MARK END FOR FUTURE EXTENSION.

AGENCY
APPROVAL:



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Consultant:

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ANTHONY J. TASSANO
NO. C74696
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA
9/9/2024

FACILITY:
MERRILL F WEST HIGH SCHOOL
1775 W LOWELL AVE
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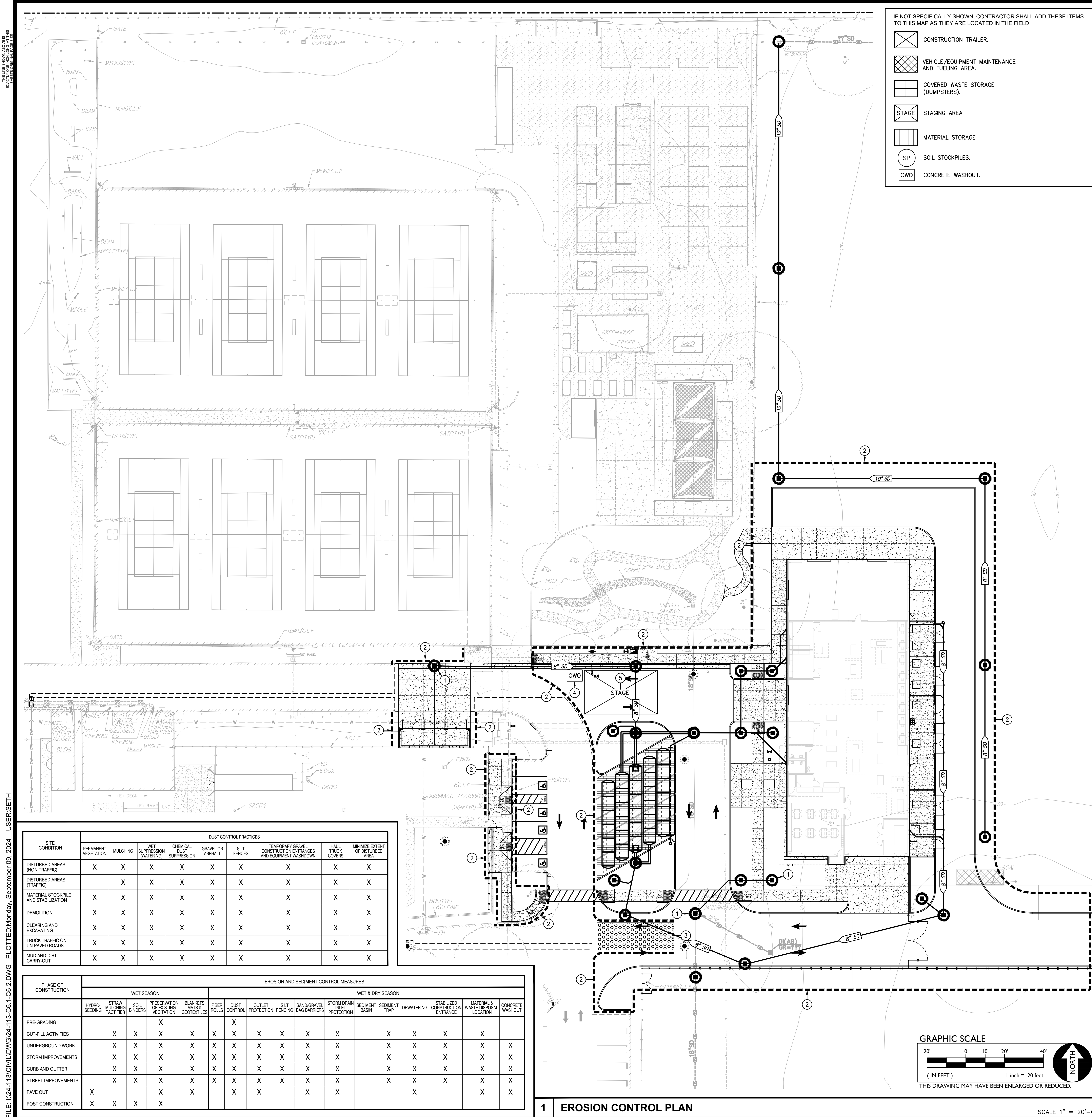
PROJECT:
MERRILL F WEST HS AGRICULTURE CTE BLDG

SHEET NAME:
UTILITY PLAN

DSA SUBMITTAL

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FILE: I:\24-113\CIVIL\DWG\24-113-C6-1-C6.2.DWG PLOTTED: Monday, September 09, 2024 USER: SETH



- IF NOT SPECIFICALLY SHOWN, CONTRACTOR SHALL ADD THESE ITEMS TO THIS MAP AS THEY ARE LOCATED IN THE FIELD
- CONSTRUCTION TRAILER.
 - VEHICLE/EQUIPMENT MAINTENANCE AND FUELING AREA.
 - COVERED WASTE STORAGE (DUMPSTERS).
 - STAGING AREA
 - MATERIAL STORAGE
 - SOIL STOCKPILES.
 - CONCRETE WASHOUT.

- EROSION CONTROL NOTES**
- CONTRACTOR SHALL PROVIDE INLET PROTECTION AT ALL INLETS (NEW AND/OR EXIST.) IN AREAS OF WORK. INLET PROTECTION SHALL CONSIST OF STRAW ROLL FILTERS PER THE DETAIL PROVIDED, OR INLET FILTER BAGS, FOR INLETS WITHIN PLANTER AREAS, OR TEMPORARILY UNPAVED AREAS, USE STRAW WATTLE FILTERS. IN TEMPORARILY UNPAVED AREAS, REPLACE WITH FILTER BAGS JUST PRIOR TO PAVING OPERATIONS. FILTER BAGS ARE NOT ALLOWED IN UNPAVED AREAS.
 - CONTRACTOR SHALL PROVIDE STRAW WATTLES AT PERIMETER OF SITE AND IN AREAS REQUIRED TO ELIMINATE OR IMPEAD THE FLOW OF SEDIMENT. IN PAVED AREAS, WATTLES CAN BE PLACED OVER PAVING AND HELD IN PLACE WITH SANDBAGS AT 6' O.C.
 - CONTRACTOR SHALL CONSTRUCT AND MAINTAIN A STABILIZED CONSTRUCTION SITE ACCESS PER THE DETAIL PROVIDED.
 - CONTRACTOR SHALL CONSTRUCT A CONCRETE WASHOUT AREA PER THE DETAIL PROVIDED.
 - CONTRACTOR SHALL UTILIZE THIS AREA FOR PROCEDURES SUCH AS EQUIPMENT AND MATERIALS STORAGE, DEBRIS/SOLID WASTE STORAGE, VEHICLE/EQUIPMENT MAINTENANCE, FUELING AND WASHING. IF ANY OF THESE ACTIVITIES ARE TO BE DONE ELSEWHERE, CONTRACTOR SHALL CLEAR NEW LOCATION WITH SITE INSPECTOR.

QSD NAME: _____ PHONE: _____

QSP NAME: _____ PHONE: _____

WDID: -

PROJECT INFORMATION	
PROJECT NAME:	MERRILL F. WEST H.S. - AGG FACILITY TRACY, CA
SWPPP REQUIRED:	YES
RISK LEVEL:	2
EROSIVITY WAIVER POSSIBLE:	TBD
PARCEL AREA	70.97 ACRES
ON-SITE DISTURBED AREA	1.10 ACRES
OFF-SITE DISTURBED AREA	0.00 ACRES
TOTAL DISTURBED AREA	1.10 ACRES

CONSTRUCTION SCHEDULE (ESTIMATED)		
ACTIVITY	BEGIN	END
GRADING/UTILITIES	TBD	TBD
PAVING/LANDSCAPING	TBD	TBD

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. THE BMP'S AS SHOWN ON THIS PLAN ARE NOT "REQUIRED" HOWEVER THEY ARE RECOMMENDED TO COMPLY WITH STORMWATER QUALITY ORDINANCES. 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.

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.

AGENCY APPROVAL:

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UNIFIED SCHOOL DISTRICT

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ANTHONY J. TASSANO
NO. C74696
CIVIL
STATE OF CALIF. 09/11/2024

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1775 W LOWELL AVE
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PROJECT:
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SHEET NAME:
EROSION & SEDIMENT CONTROL PLAN

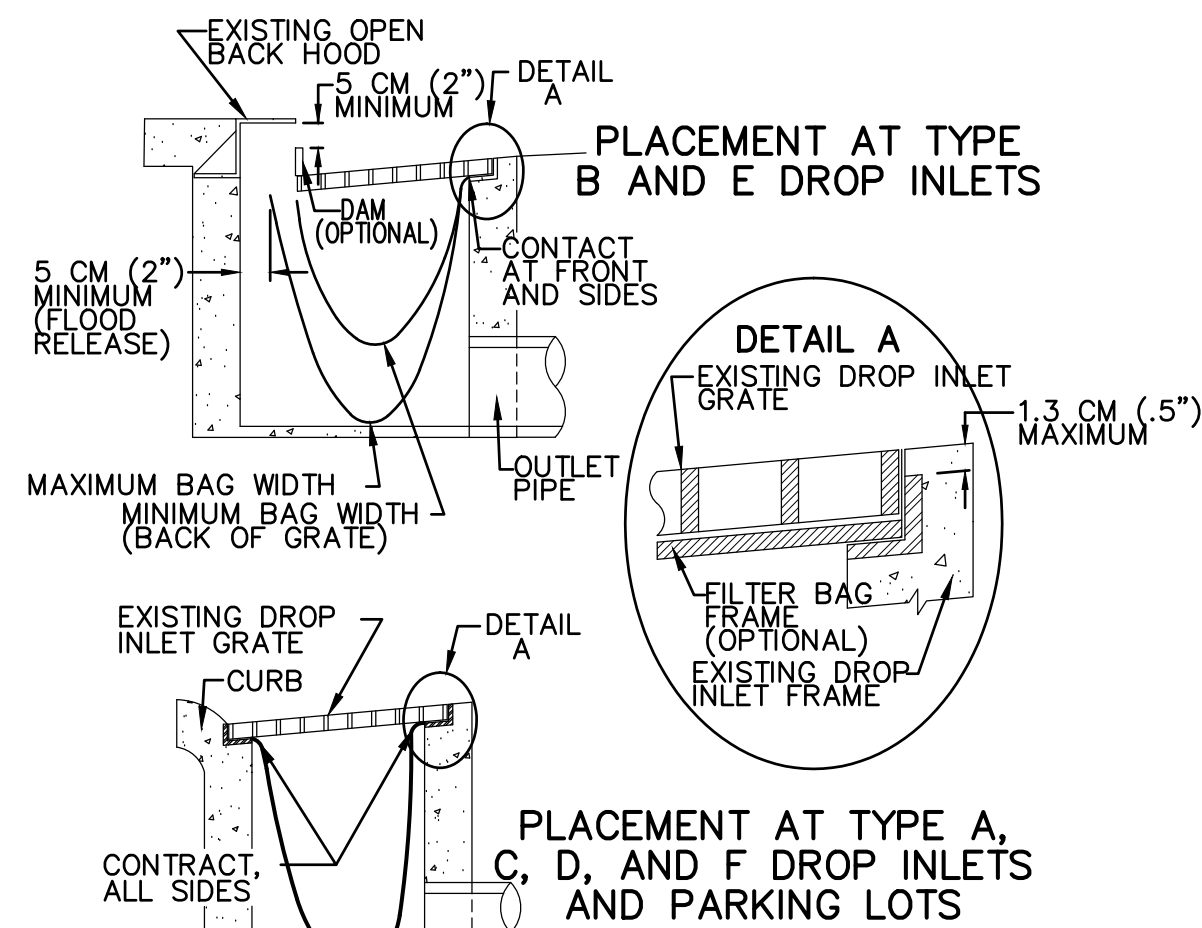
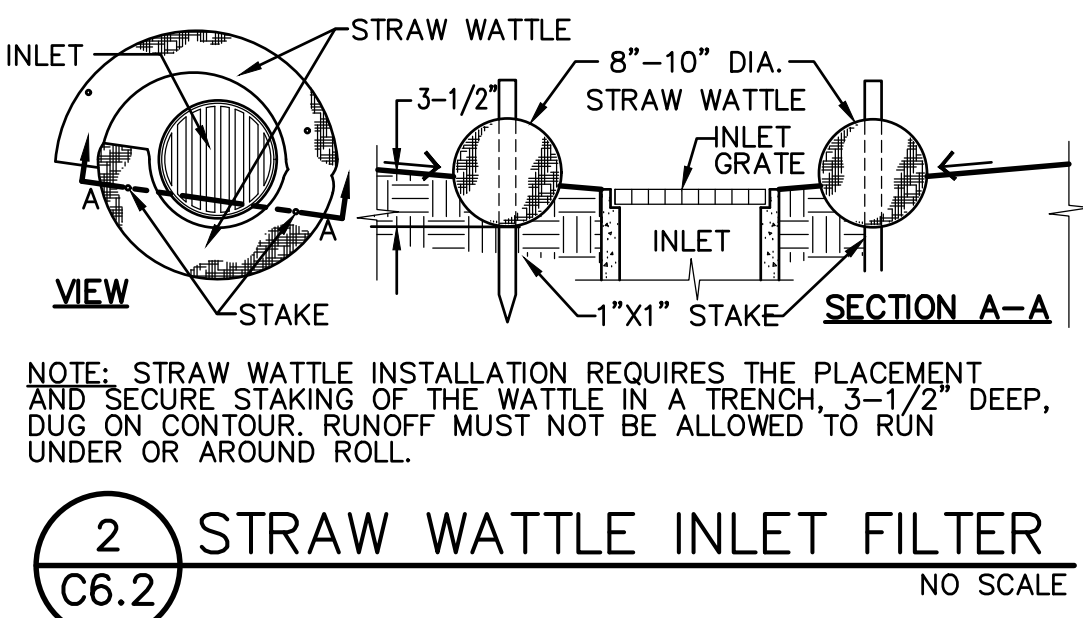
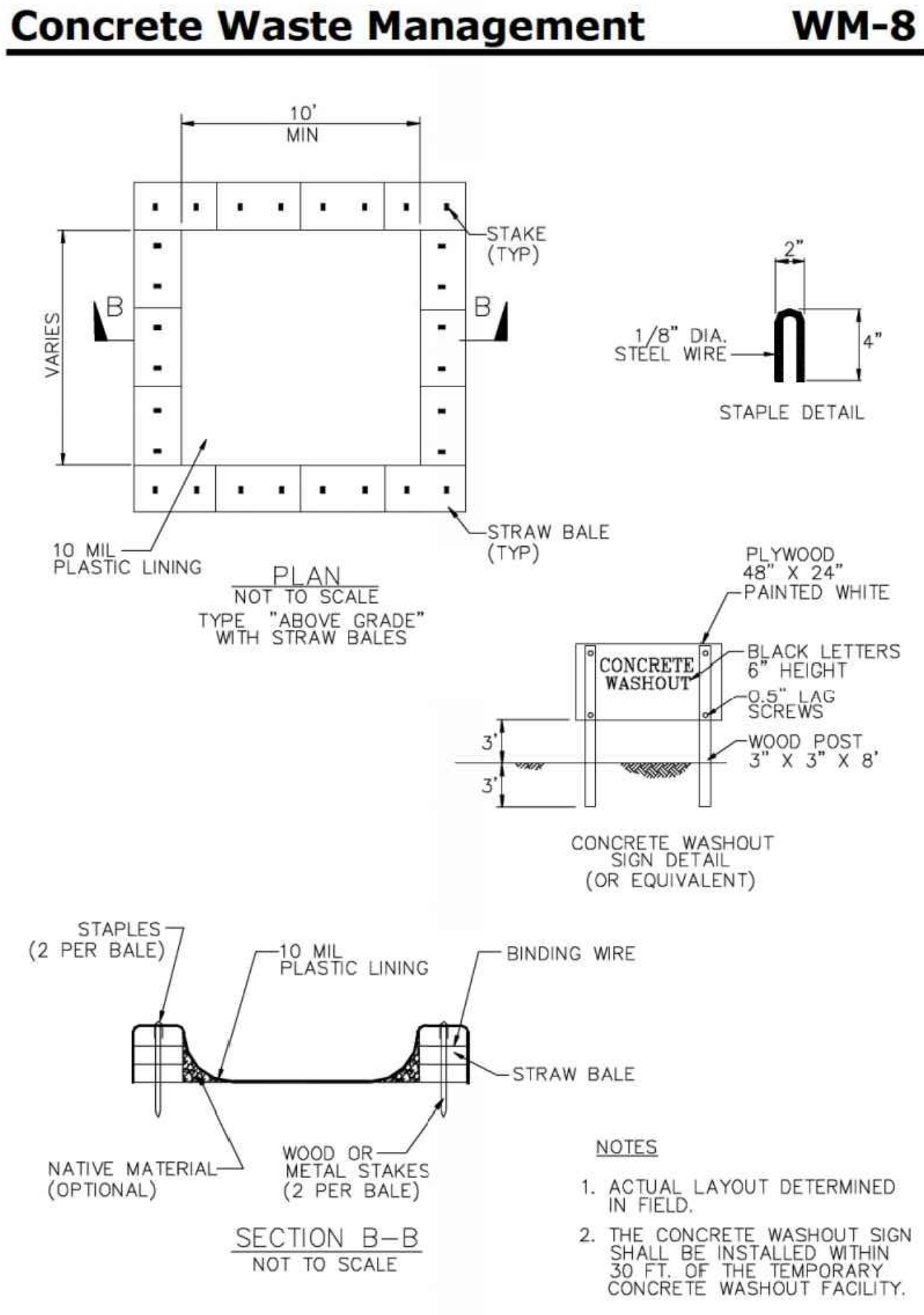
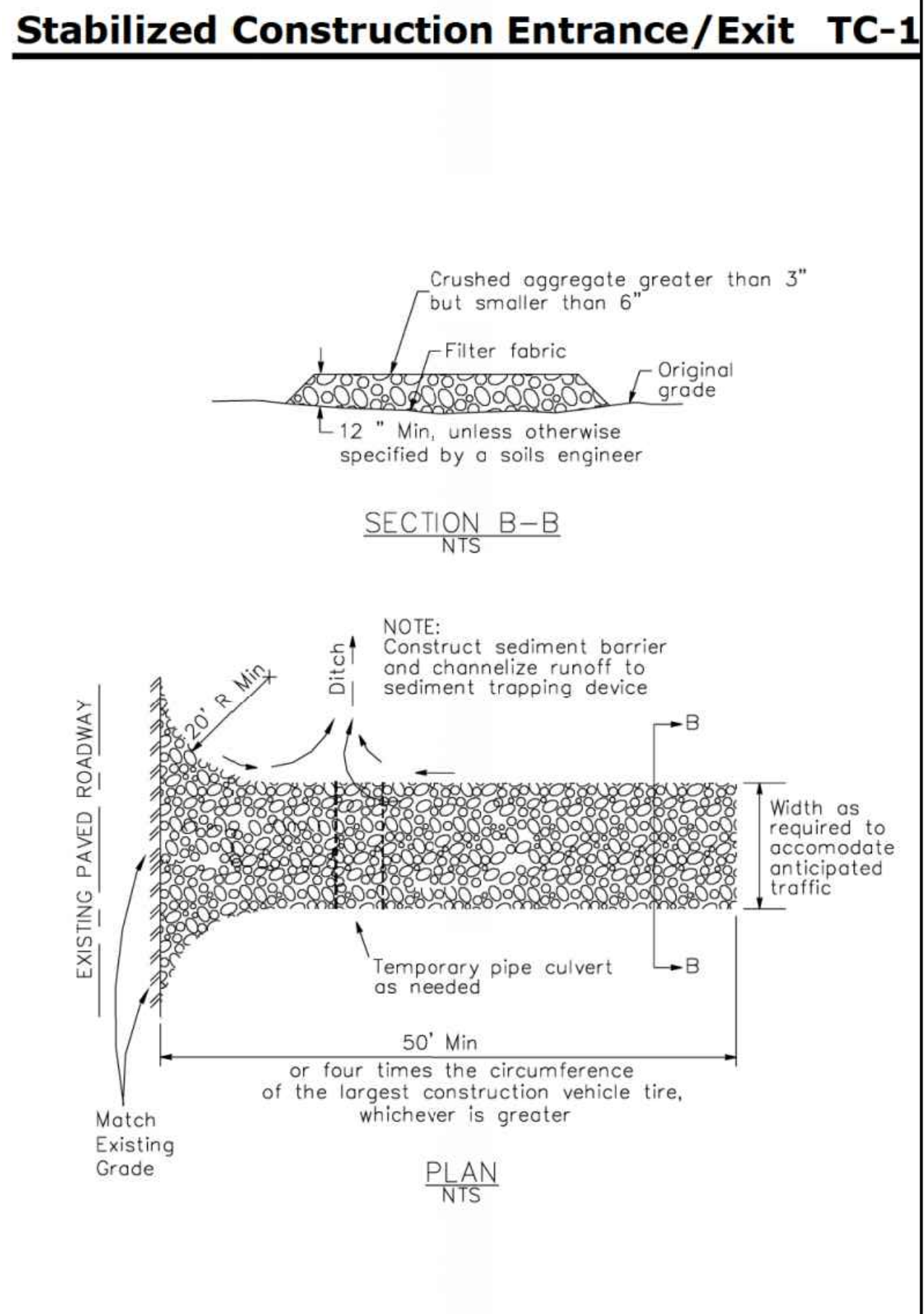
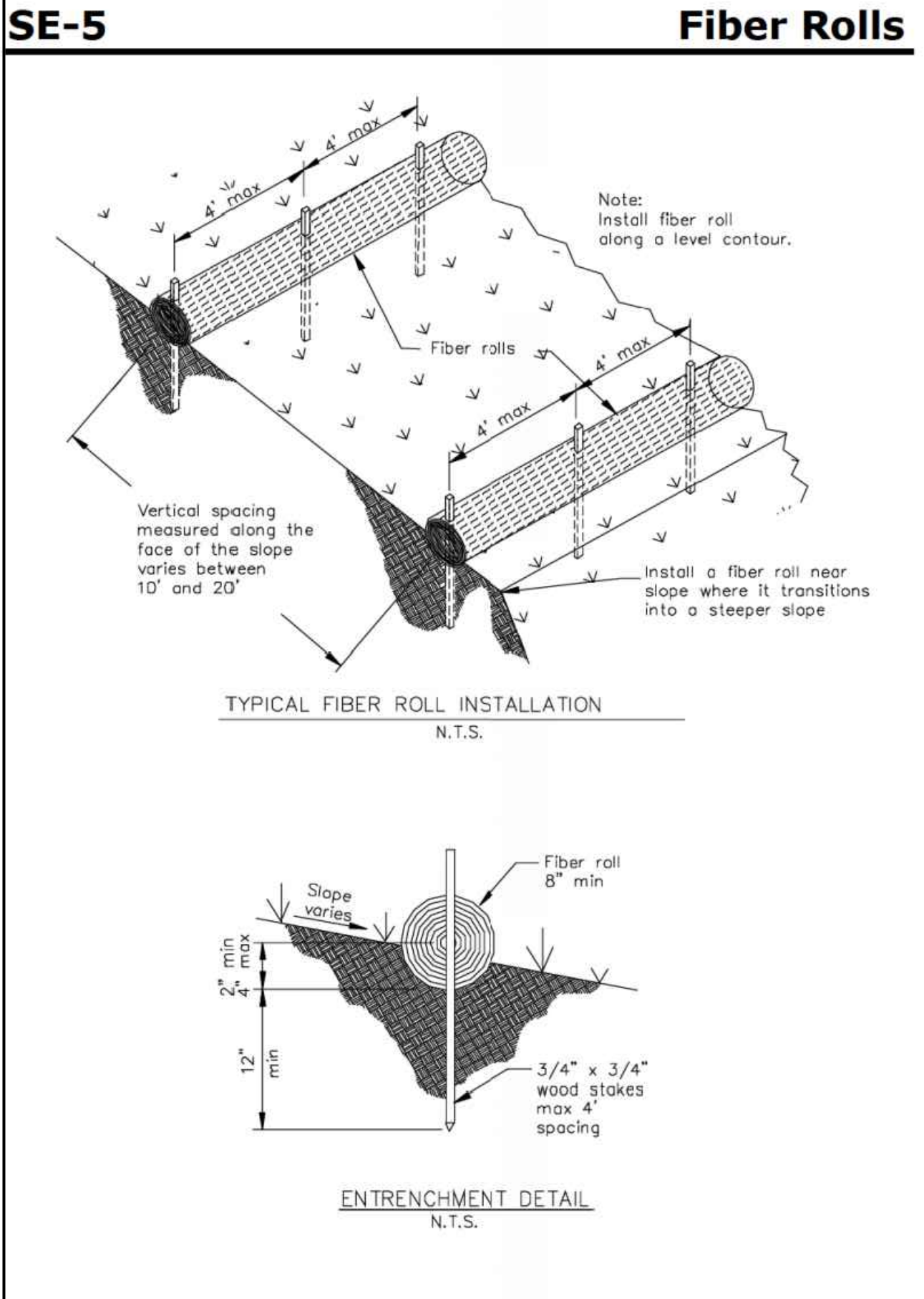
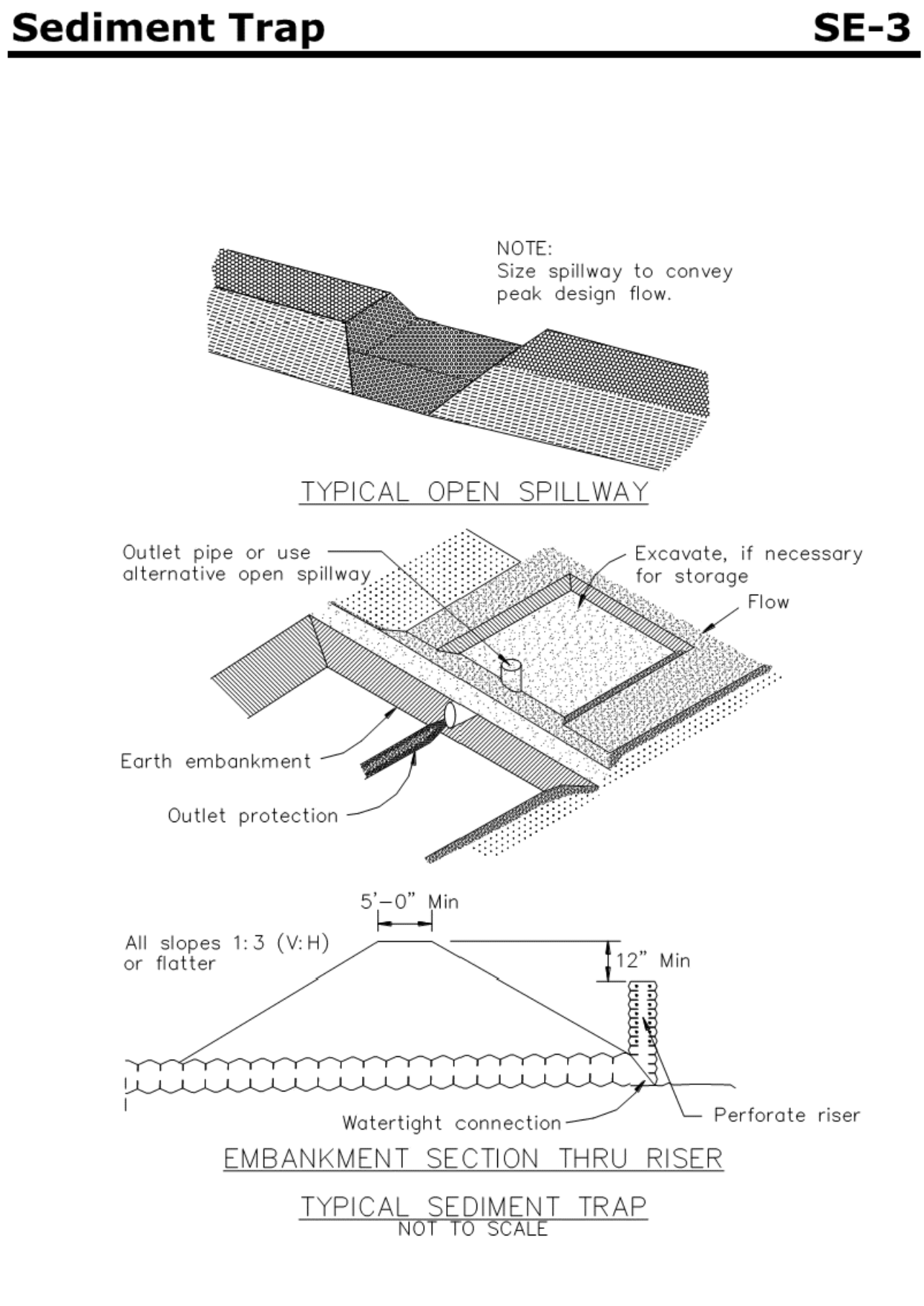
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- NOTES:**
1. THE MAXIMUM DRAINAGE AREA PER FILTER SHALL BE NO MORE THAN 0.8 HECTARES(2 ACRES)
 2. THE FILTER BAG SHALL BE MANUFACTURED FROM UV RESISTANT POLYPROPYLENE, NYLON, POLYESTER, OR ETHYLENE FABRIC WITH A MINIMUM TENSILE STRENGTH OF 50 LBS.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



GENERAL BMP NOTES:

NON-SWPPP

1. EROSION AND SEDIMENT CONTROL MEASURES FOR THIS PROJECT SHALL BE IN COMPLIANCE WITH THIS PLAN AND THE CONTRACTOR SWPPP, PREPARED SPECIFICALLY FOR THIS PROJECT, AND IN ACCORDANCE WITH THE STATE'S GENERAL PERMIT FOR CONSTRUCTION ACTIVITIES. ACCORDING TO STATE LAW IT IS THE RESPONSIBILITY OF THE PROPERTY OWNER THAT THE APPLICABLE STORMWATER ORDINANCES ARE COMPLIED WITH AND BMP'S ARE IMPLEMENTED. SHOULD A SWPPP NOT BE REQUIRED WITH THIS PROJECT, IT IS STILL THE RESPONSIBILITY OF THE CONTRACTOR TO EMPLOY PROPER BMP'S TO PROTECT THE SITE FROM AN ILLEGAL NON-STORM WATER DISCHARGE.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IMPLEMENT AND MAINTAIN ALL BMP'S. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR COMPLIANCE WITH ALL LOCAL AND STATE WATER RESOURCES CONTROL BOARD REQUIREMENTS.
3. CONTRACTOR SHALL PROVIDE STRAW WATTLE RINGS AT ALL INLETS (NEW AND/OR EXISTING) THAT RECEIVE FLOW FROM AREAS OF WORK, AND AS INDICATED IN THE SWPPP. FILTER BAGS WILL ONLY BE ACCEPTED WHEN INLETS ARE SURROUNDED BY PAVED SURFACES, OR FINISHED LANDSCAPED AREAS. THEY WILL NOT BE ALLOWED IN NEWLY GRADED AREAS.
4. CONTRACTOR SHALL PROVIDE STRAW WATTLE/SILT FENCING AT PERIMETER OF SITE AS REQUIRED TO MITIGATE SEDIMENT IN RUN OFF.
5. CONTRACTOR SHALL STABILIZE DISTURBED SOIL AREAS WITH TEMPORARY EROSION CONTROL PRIOR TO ANTICIPATED RAIN EVENTS. EROSION CONTROLS SUCH AS STRAW MULCH AND TACKIFIER, EROSION CONTROL BLANKETING, UV RESISTANT PLASTIC (OR EQUIVALENT) SHOULD BE USED.
6. CONSTRUCTION STAGING AND SPOILS STORAGE SHALL BE LOCATED ON EXISTING PAVED AREAS OR PREVIOUSLY DISTURBED AREAS, AND SHALL BE COVERED WITH TEMPORARY BMP'S WHEN NOT IN USE. BMP'S SUCH AS UV RESISTANT PLASTIC SHEETING SECURED WITH GRAVEL BAGS/ROPE (OR EQUIVALENT STABILIZATION) MAY BE USED.
7. CONTRACTOR SHALL MAINTAIN ALL STRAW WATTLES/SILT FENCING, TEMPORARY EROSION CONTROLS AND OTHER BMP'S AS NEEDED THROUGHOUT CONSTRUCTION, REMOVE ALL TEMPORARY BMP'S AT THE END OF CONSTRUCTION AS REQUIRED.
8. PRIOR TO PLACEMENT OF LANDSCAPING AND/OR FINISHED GROUND SEEDING, CONTRACTOR SHALL REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES.
9. CONTRACTOR SHALL REVEGETATE AND STABILIZE ALL AREAS DISTURBED BY GRADING. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE REVEGETATED IN ACCORDANCE WITH 9 CESS/CEV APPROVED SEED AND MULCH PRESCRIPTION. ALL LANDSCAPED AREAS DISTURBED BY CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL CONDITION OR BETTER.
10. INACTIVE AREA STABILIZATION: COVER WITH STRAW MULCH AND TACKIFIER IF INACTIVE FOR MORE THAN 14 DAYS.
11. IF CERTAIN SOIL TYPES (E.G. COLLOIDAL SOILS) ARE DETECTED, THE CONTRACTOR SHALL IMPLEMENT ADDITIONAL TREATMENT MEASURES PRIOR TO DISCHARGE.
12. CONTRACTOR IS RESPONSIBLE FOR THE DEWATERING AND REMOVAL OF ALL TEMPORARY EROSION CONTROL DEVICES JUST PRIOR TO THE COMMENCING OF THE FINAL GRADING AND PAVING OPERATIONS. ONLY CLEAR WATER IS TO BE DISCHARGED INTO THE EXISTING DRAINAGE SYSTEM. IF PUMPING IS NECESSARY, FILTERS WILL BE REQUIRED TO ENSURE THAT ONLY CLEAR WATER IS DISCHARGED FROM THE SITE, PER CITY OF SACRAMENTO STANDARDS. THE CONTRACTOR SHALL VERIFY THE DISCHARGE POINT WITH THE CITY INSPECTOR. THE CONTRACTOR SHALL VERIFY THAT THE POINT OF DISCHARGE CAN HANDLE THE VELOCITY AND QUANTITY OF FLOW.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING THE SITE TO MINIMIZE DUST CREATED DURING CONSTRUCTION.
14. PROVIDE CONCRETE STAMPS OR EXPOSED PLACARD FOR PERMANENT STORM DRAINAGE MESSAGE " NO DUMPING FLOWS TO CREEK", PER THE DETAIL PROVIDED.
15. ALL MATERIALS STORED ON-SITE SHALL HAVE PROPER ENCLOSURES AND/OR COVERINGS.
16. CONTRACTOR SHALL MAINTAIN ALL WATTLE OR SILT FENCES AND OTHER STORM WATER POLLUTION PREVENTION DEVICES THROUGHOUT CONSTRUCTION. CONTRACTOR SHALL INSPECT ALL EROSION CONTROL DEVICES WEEKLY AS WELL AS BEFORE, DURING, AND AFTER A STORM EVENT. CONTRACTOR SHALL REMOVE ALL EROSION CONTROL AND POLLUTION PREVENTION DEVICES AT THE END OF CONSTRUCTION AS REQUIRED.
17. CONTRACTOR SHALL ADEQUATELY PREVENT EXCESSIVE AMOUNTS OF MUD, SAND, DIRT, AND OTHER DEBRIS FROM BEING TRACKED THROUGH THE AREA AND ONTO THE STREET FROM CONSTRUCTION VEHICLE MOVEMENT. PROVIDE WASHING FACILITIES AT CONSTRUCTION ENTRANCE IF NECESSARY.

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EROSION NOTES AND DETAILS

DSA SUBMITTAL

DATE: 08/22/24

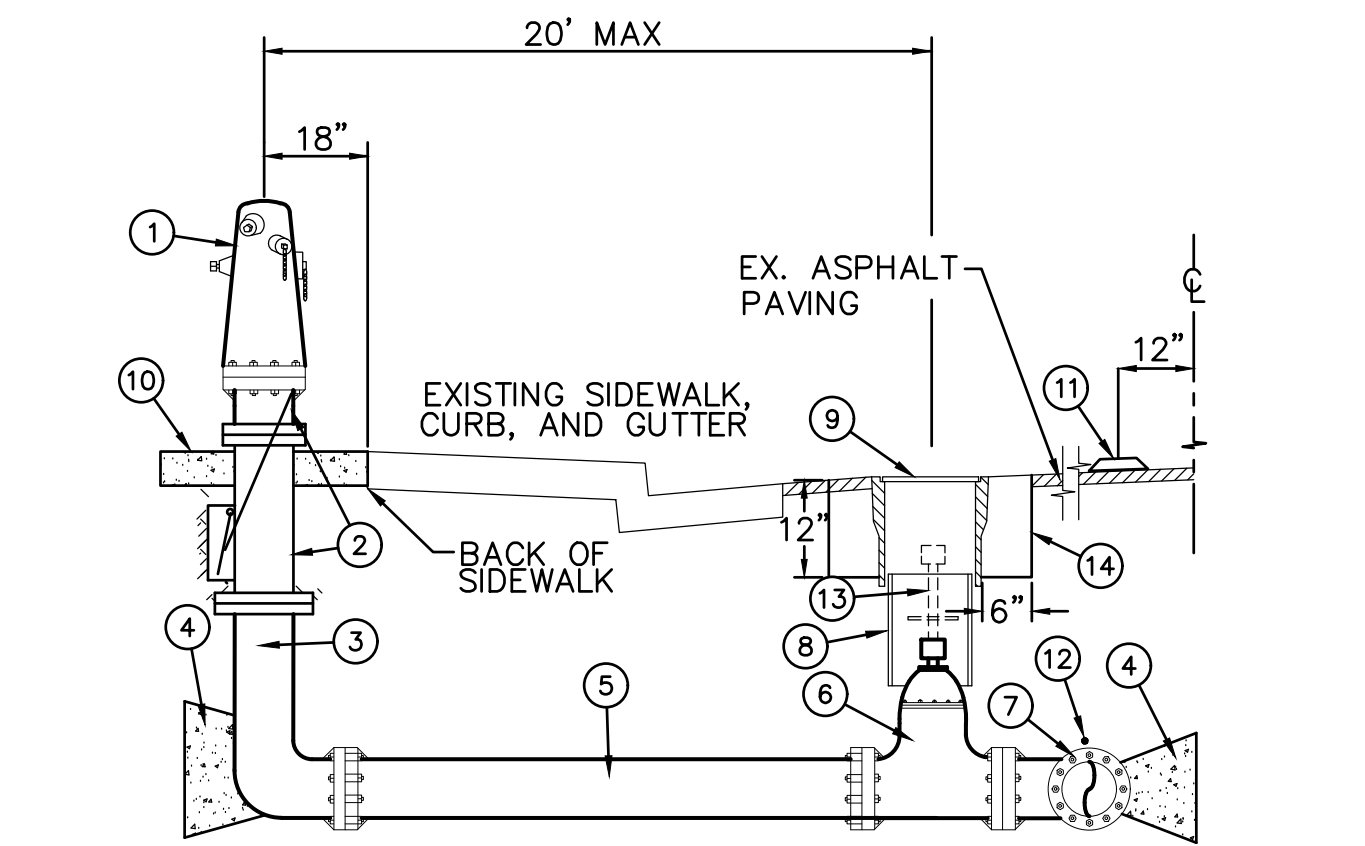
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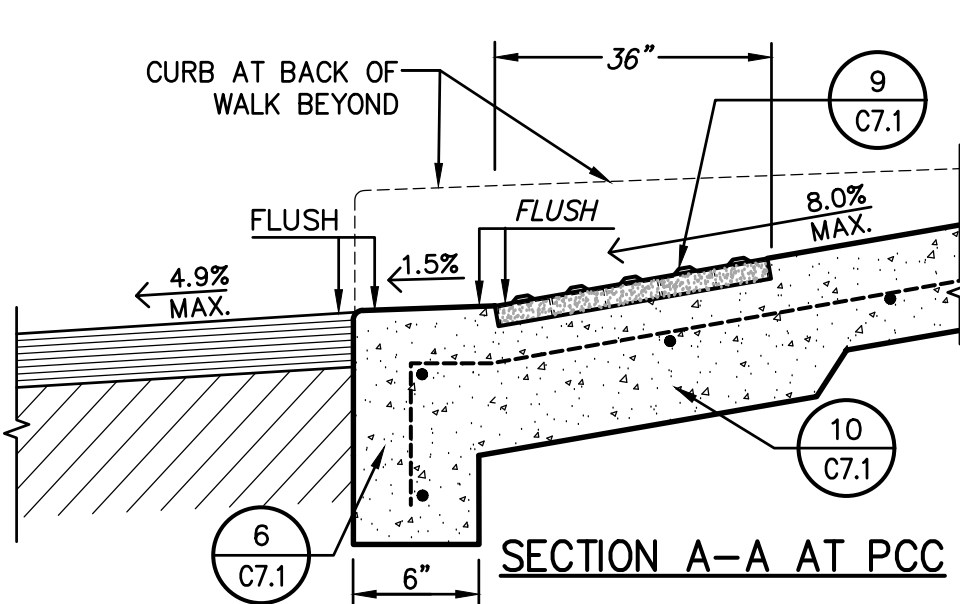
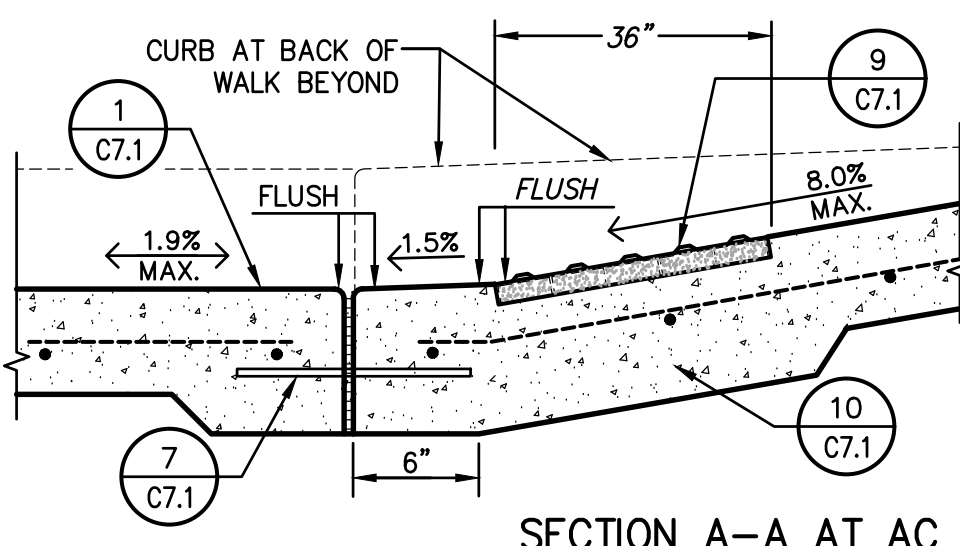
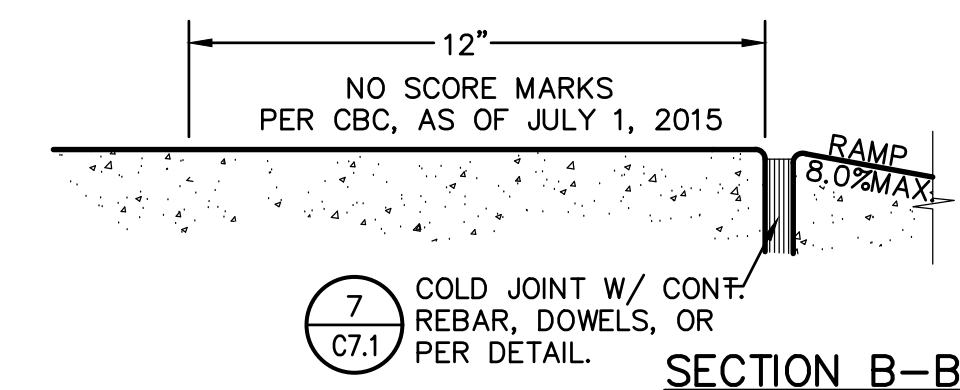
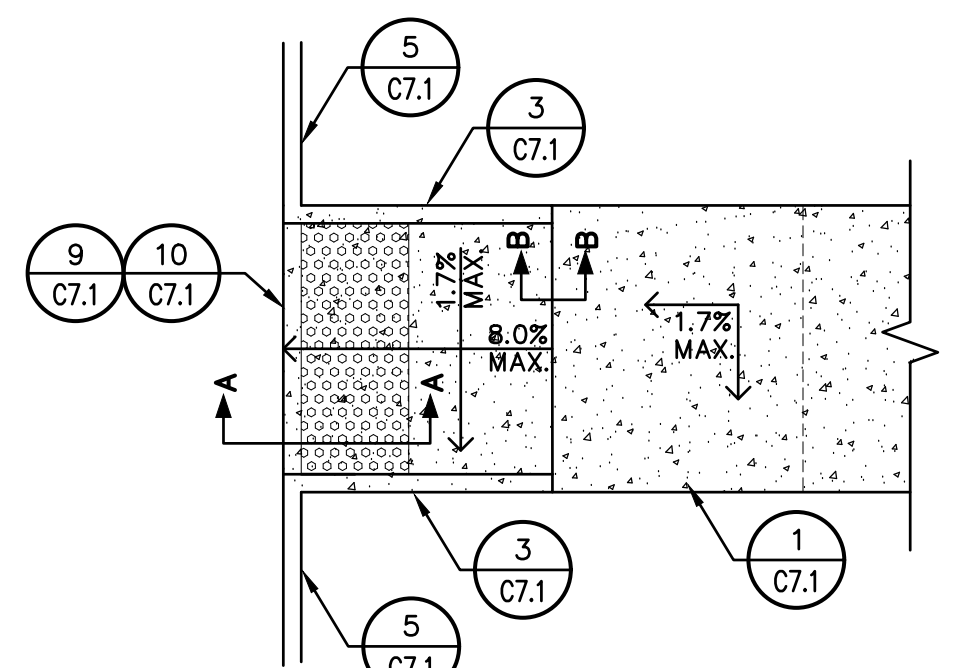
CONSTRUCTION NOTES

- FIRE HYDRANT. 4 1/2 INCH OUTLET SHALL FACE THE STREET. BOLTS ATTACHING FIRE HYDRANT TO BURY SECTION OR SPOOL SHALL BE OF THE BREAK-OFF TYPE. HEX HEAD, HEAVY AMERICAN STANDARD. HYDRANT SHALL BE LOCATED AT PROPERTY LINES, OUTSIDE OF CURB RETURN AREAS AND AT LEAST 3 FEET FROM DRIVEWAYS.
- BREAK OFF CHECK VALVE CLOW LBI 400A OR APPROVED EQUAL. BREAK-OFF GROOVE TO BE ABOVE CONCRETE. POLYWRAP SPOOL BELOW CONCRETE PAD.
- BURY SECTION. FLANGED X MECHANICAL JOINT. (USE RESTRAINING GLAND IF REQUIRED.) POLYWRAP.
- CLASS "A" (SIX SACK) CONCRETE THRUST BLOCK IF LATERAL HAS UNRESTRAINED JOINTS. (SEE DETAIL #W-5).
- 6" PVC C900 OR DUCTILE IRON C151. POLYWRAP DUCTILE IRON PIPE.
- 6" RESILIENT WEDGE GATE VALVE. FLANGED X MECHANICAL JOINT (USE RESTRAINING GLAND IF REQUIRED). POLYWRAP.
- TEE WITH FLANGED CONNECTION FOR VALVE. POLYWRAP.
- 8" PVC RISER. MUST BE PLUMB WITHIN 1 INCH.
- CHRISTY TYPE G-5 TRAFFIC BOX. LID SHALL READ "WATER".
- 4" MIN. THICKNESS CONCRETE PAD, 24"x24" SQUARE. CENTER FIRE HYDRANT IN PAD, SLOPE PAD TO MATCH SIDEWALK, CURB, OR FINISHED GRADE. (TYP. 2%)
- REFLECTIVE BLUE MARKER (TYPE DB). AT INTERSECTIONS, TWO MARKERS SHALL BE INSTALLED PERPENDICULAR TO FIRE HYDRANT ON EACH STREET AND 12 INCHES INSIDE OF CENTERLINE.
- TRACER WIRE.
- PROVIDE EXTENSION IF OPERATING NUT EXCEEDS MAXIMUM OF FOUR (4) FEET FROM FINISHED GRADE. EXTENSION SHALL INCLUDE A STEADYING PLATE.
- CONCRETE COLLAR WITH LAMP BLACK FINISH.

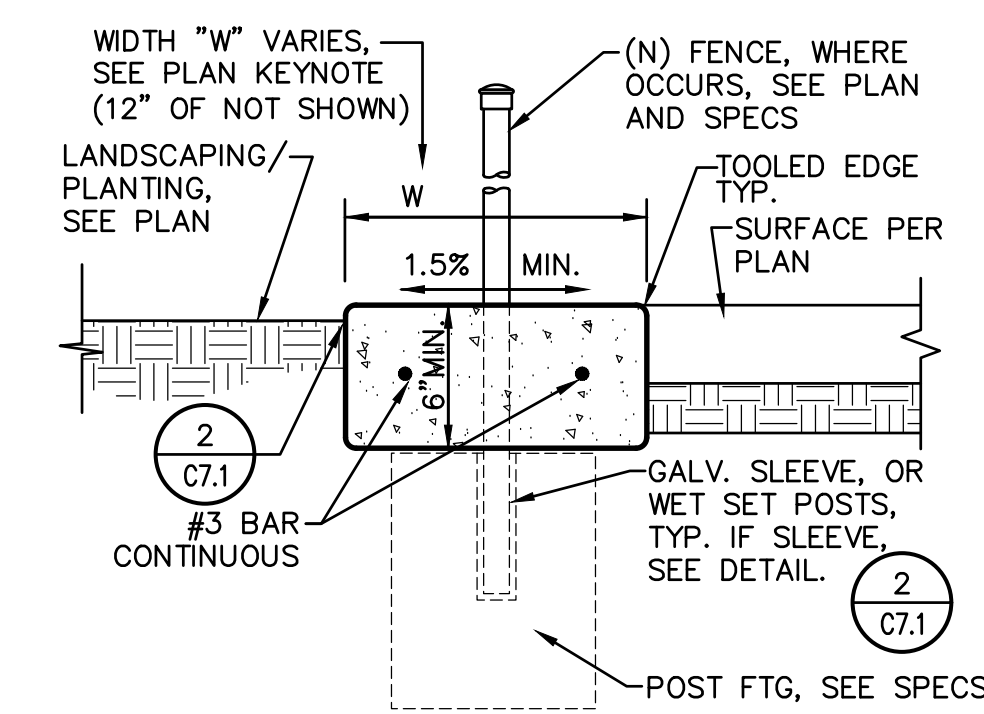
GENERAL NOTES:

- ALL NUTS, BOLTS, AND WASHERS ON FLANGED FITTINGS SHALL BE STAINLESS STEEL. PIPE AND FITTINGS SHALL BE WRAPPED AND BEDDED IN SAND.
- WHERE NO R/W OR EASEMENT EXIST BEHIND NEW OR EXISTING SIDEWALK INSTALL CENTER OF FIRE HYDRANT 18" BEHIND FACE OF CURB.
- CONCRETE SHALL BE CLASS "A".
- FIRE HYDRANT SHALL BE SPRAY PAINTED AS PER SPECS.
- LOWEST OUTLET OF FIRE HYDRANT SHALL HAVE A MIN. OF 20" CLEARANCE TO ADJACENT CONCRETE SURFACE.

18 C7.1 FIRE HYDRANT DETAIL NO SCALE



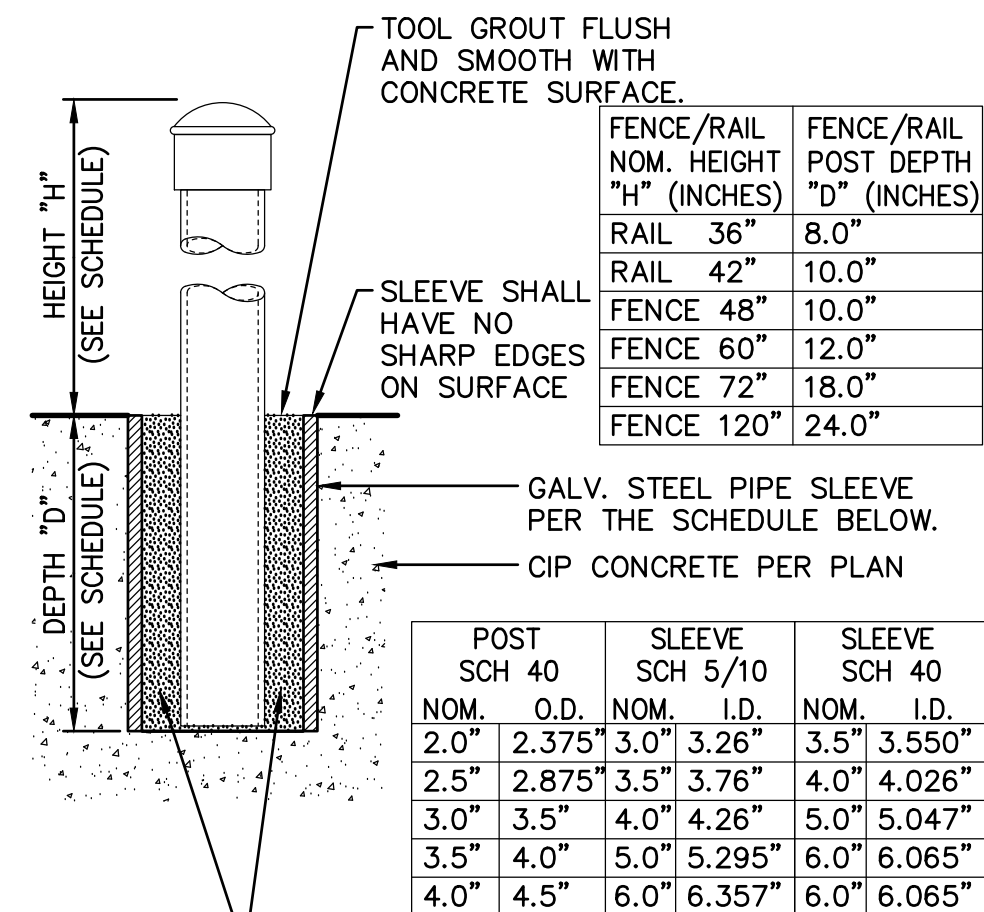
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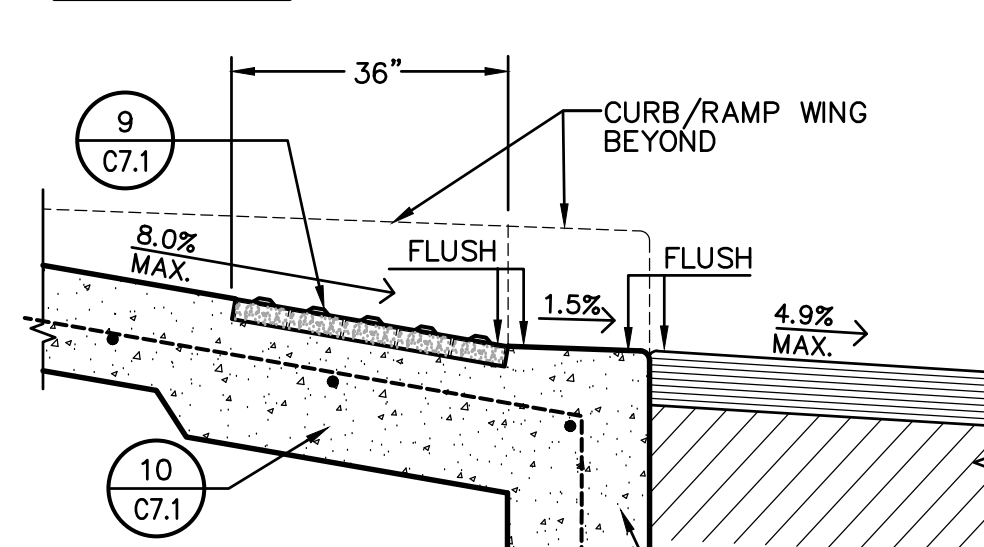
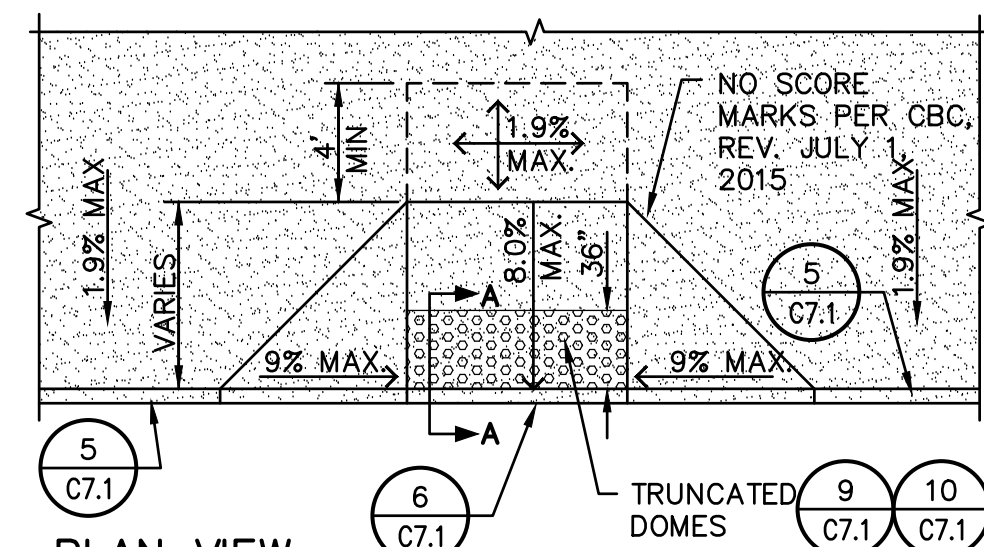
NOTES:

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

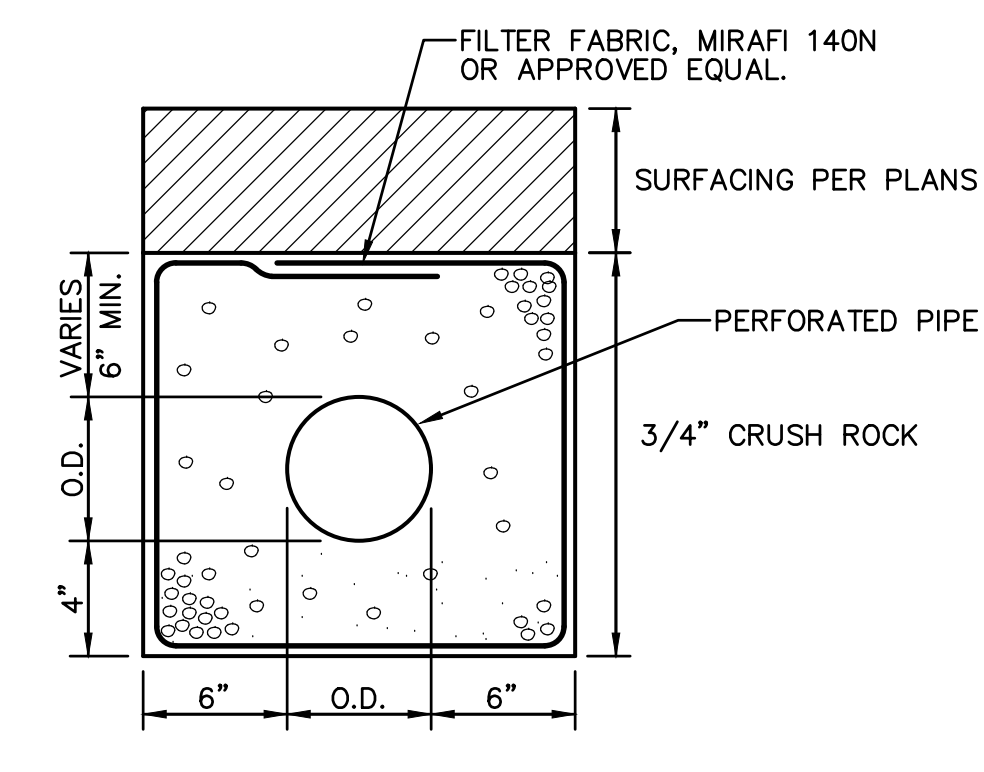
14 C7.1 CONCRETE APRON NO SCALE



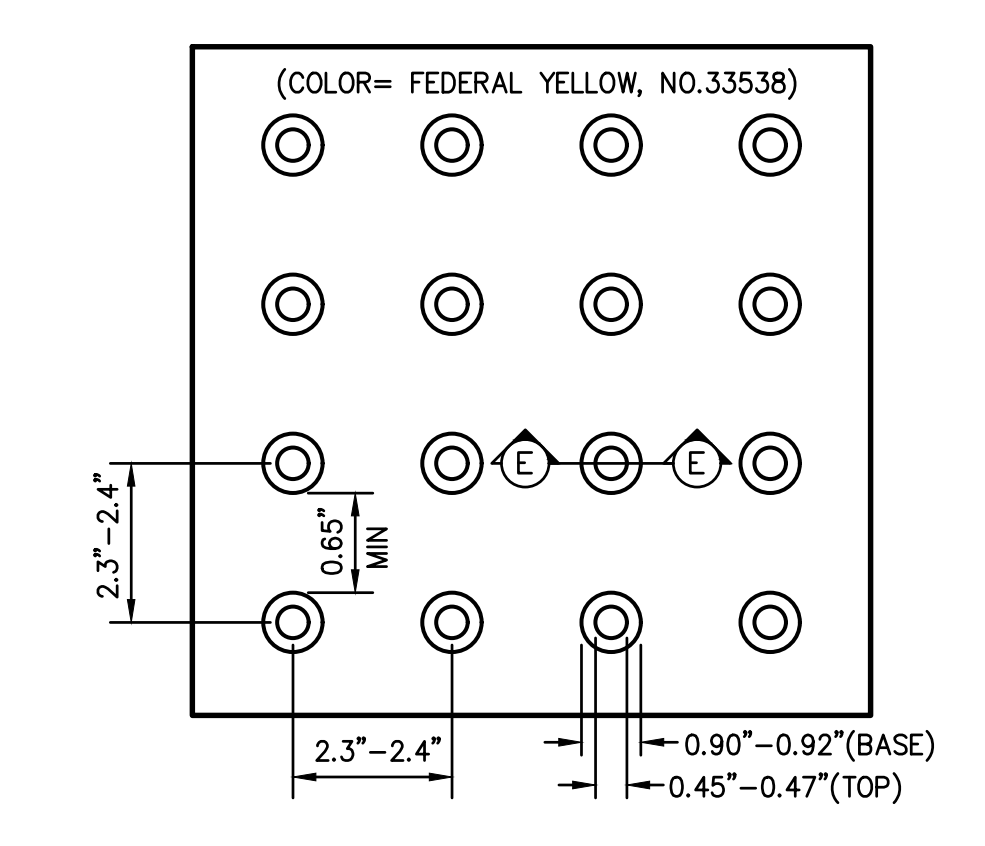
15 C7.1 POST SLEEVE DETAIL NO SCALE



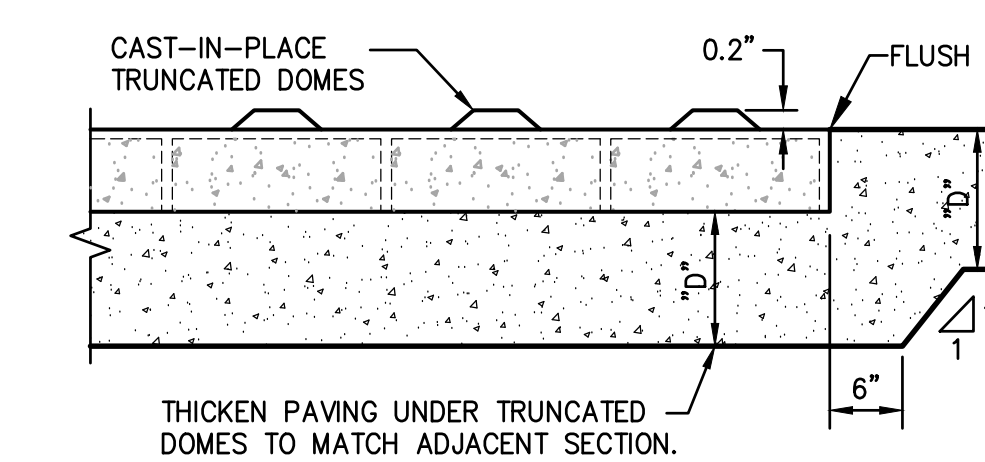
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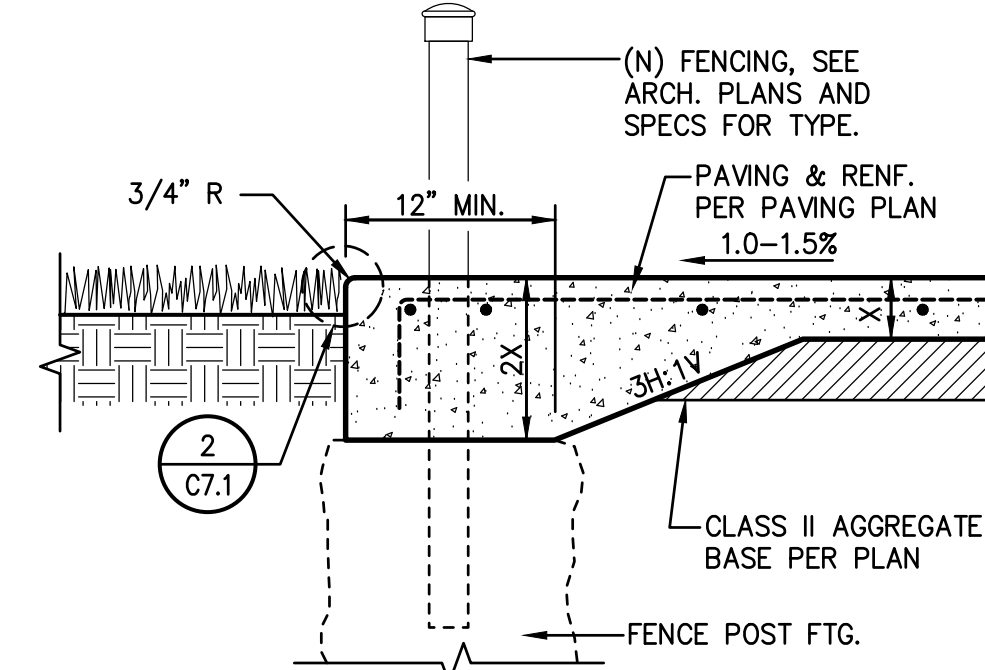
17 C7.1 SUBDRAIN TRENCH DETAIL NO SCALE



9 C7.1 TRUNCATED DOMES NO SCALE

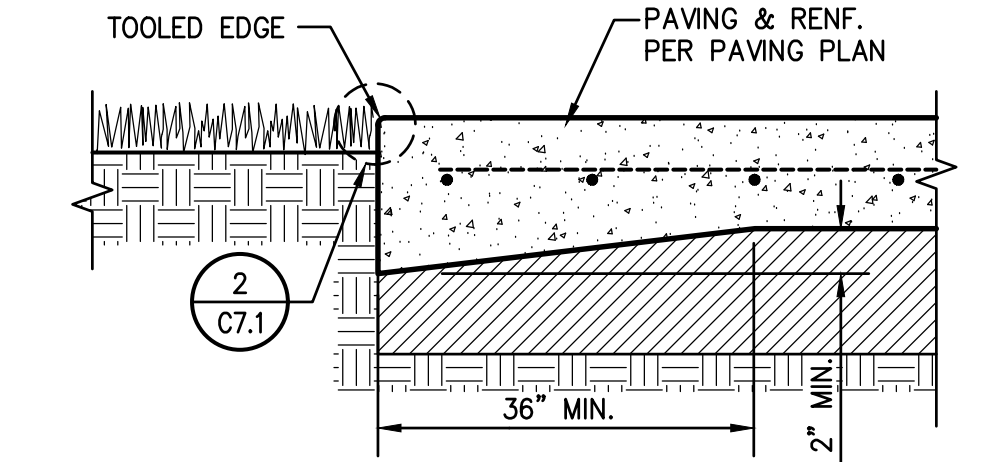


10 C7.1 SLAB AT TRUNCATED DOMES NO SCALE

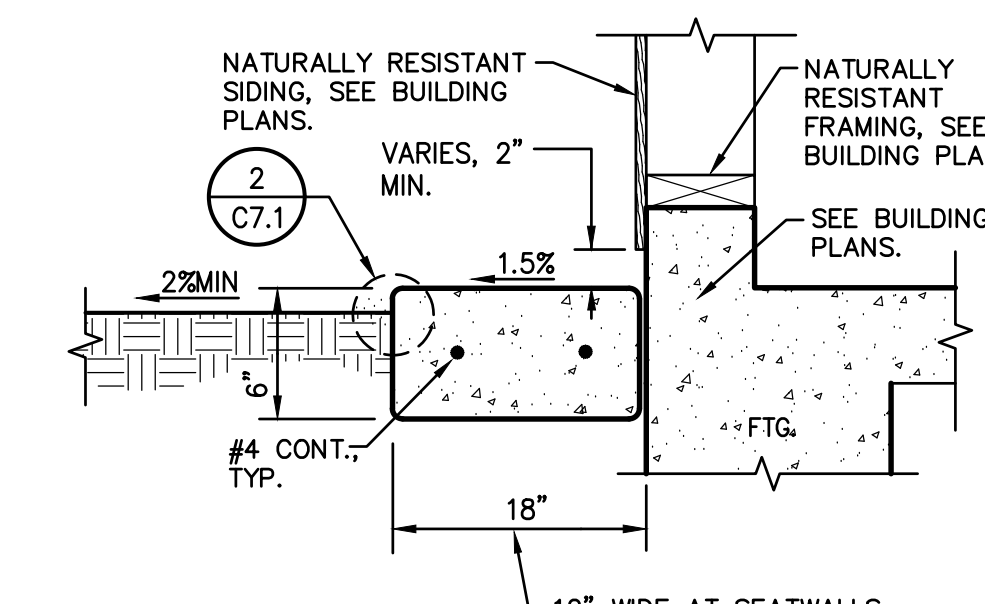


- CONCRETE WALK JOINTS SHALL EXTEND OVER AND DOWN THE FACE OF SLAB EDGE.
- CONCRETE SLAB EDGE THICKNESS MAY COUNT FOR POST FOOTING TOTAL DEPTH BUT MUST BE PLACED BEFORE FABRIC OR PANEL INSTALLATION.

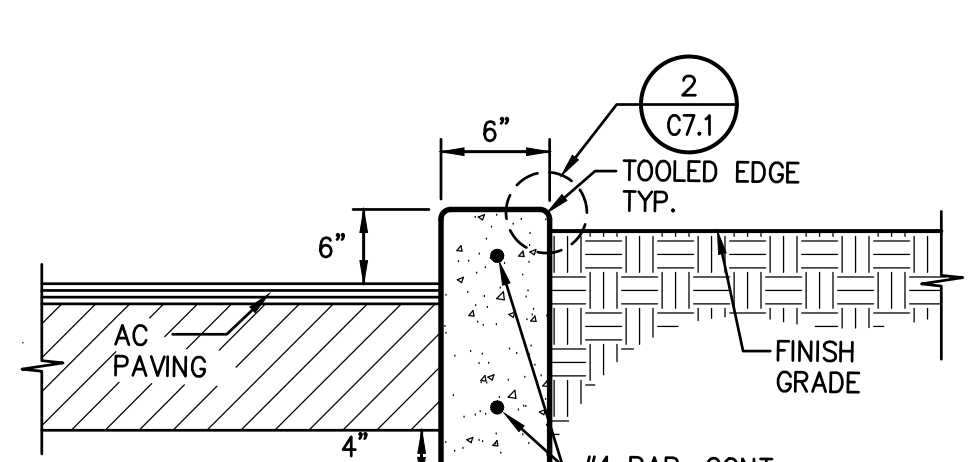
11 C7.1 SLAB EDGE WITH FENCE NO SCALE



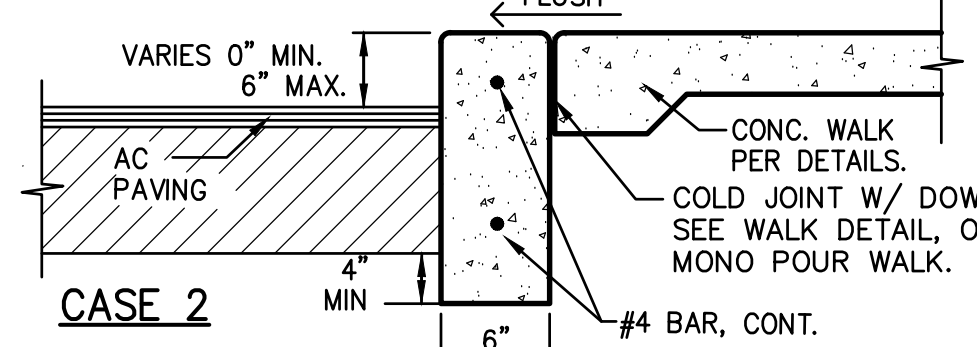
12 C7.1 THICK CONC. EDGE NO SCALE



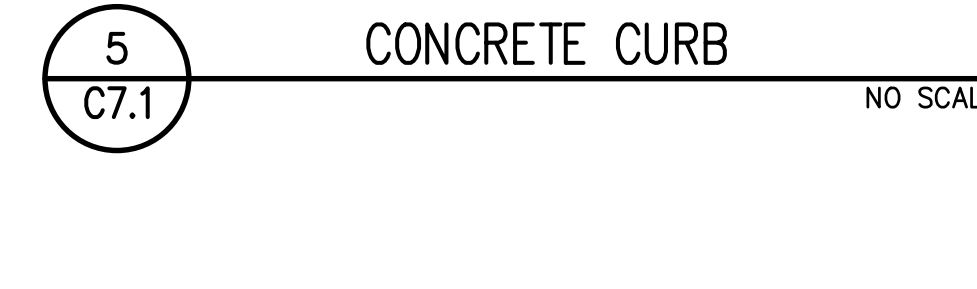
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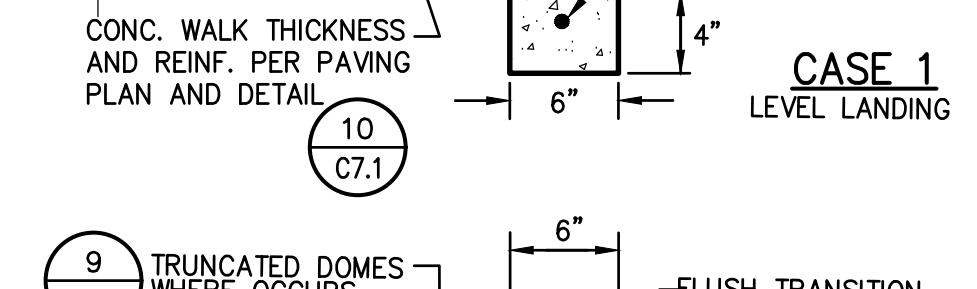
5 C7.1 CONCRETE CURB NO SCALE



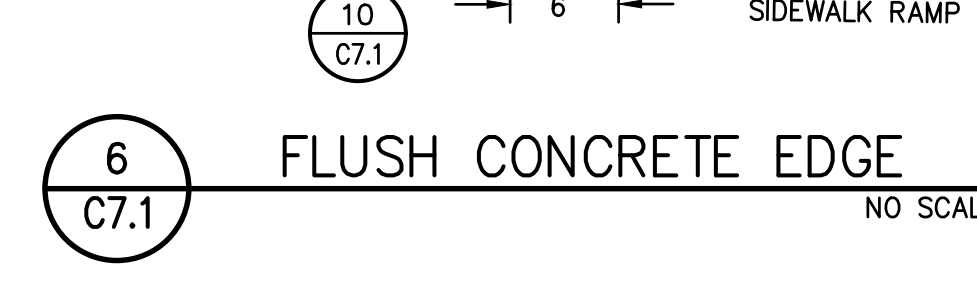
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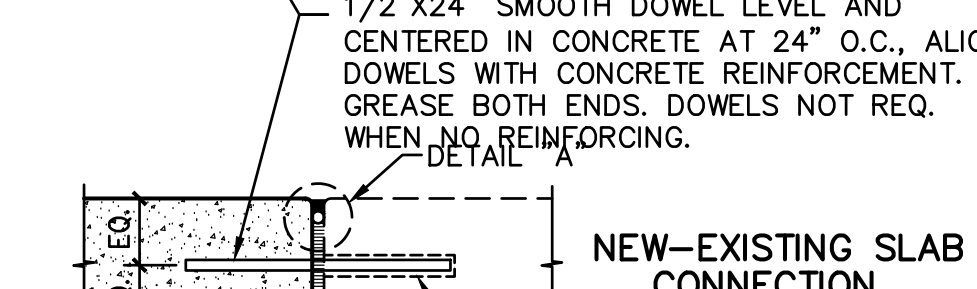
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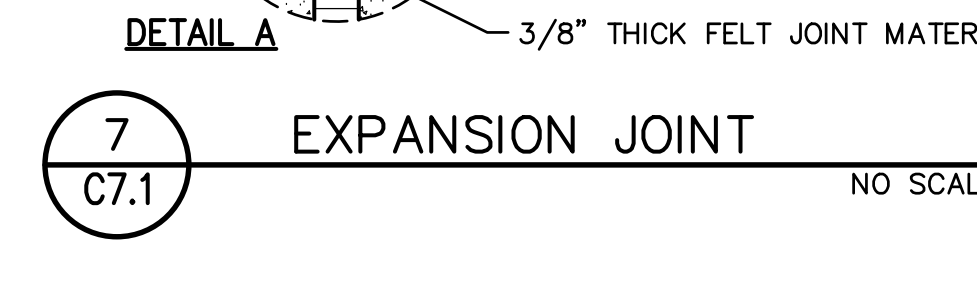
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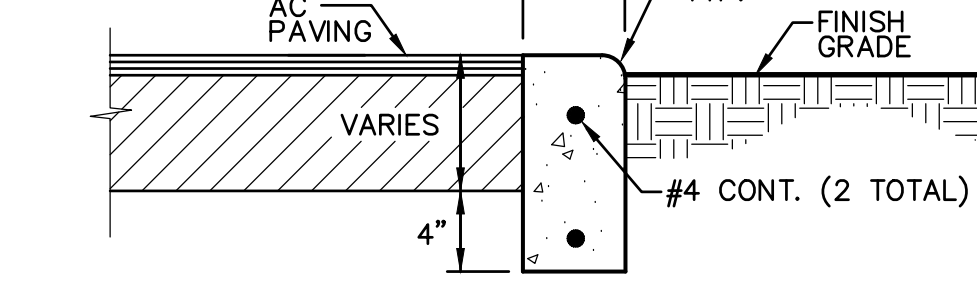
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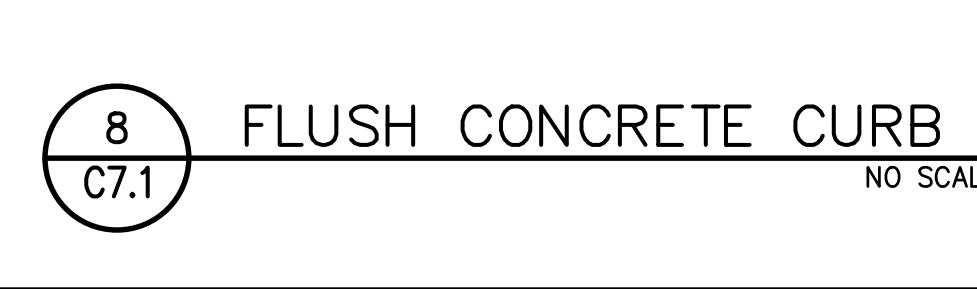
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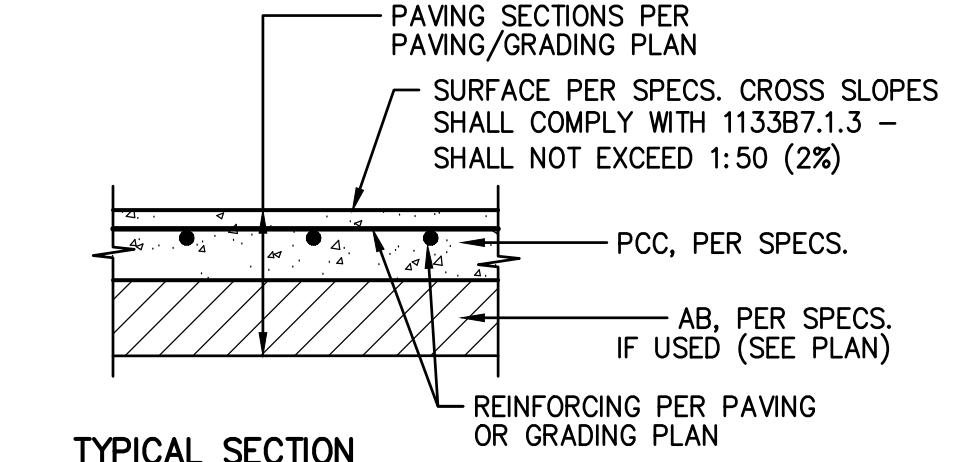
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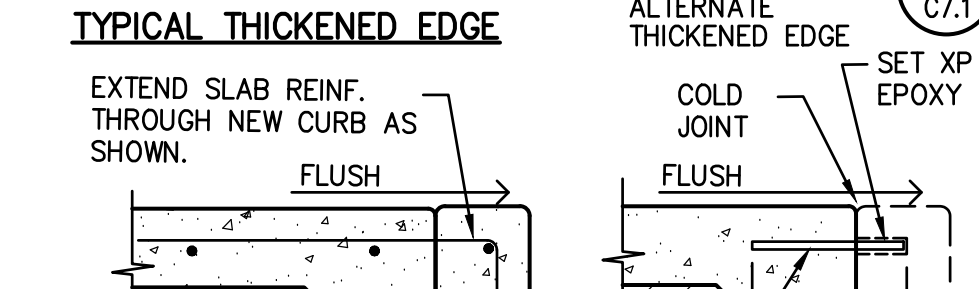
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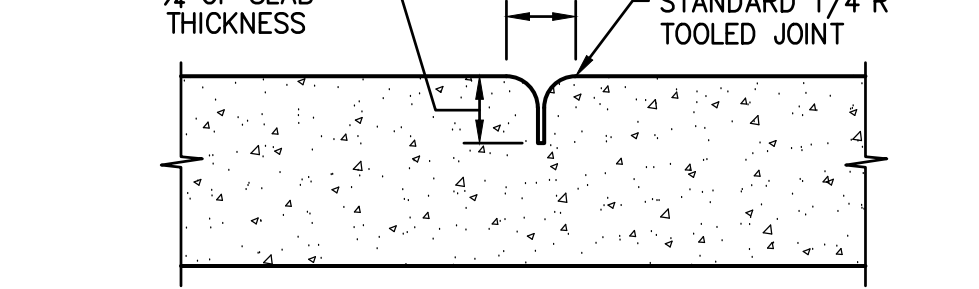
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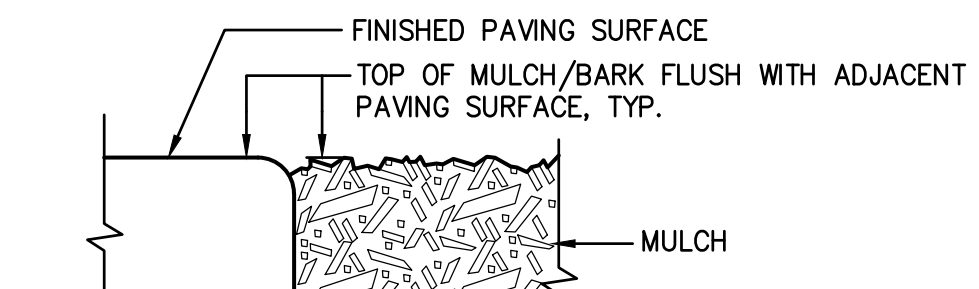
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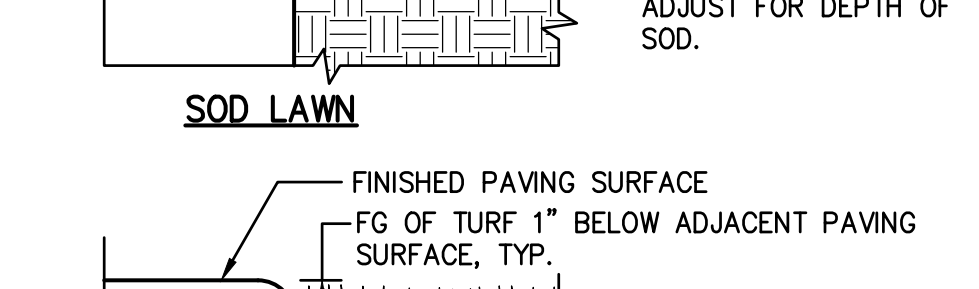
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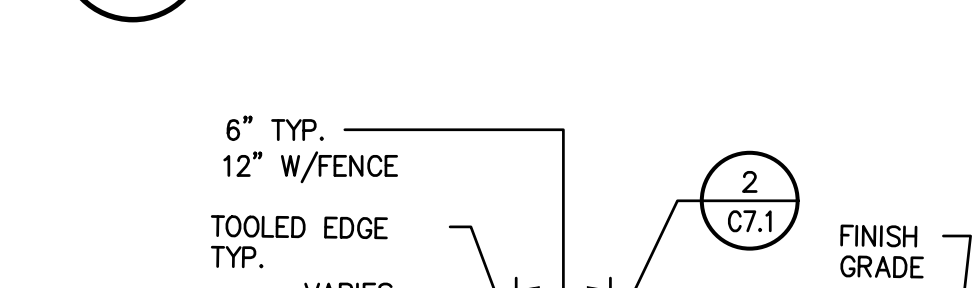
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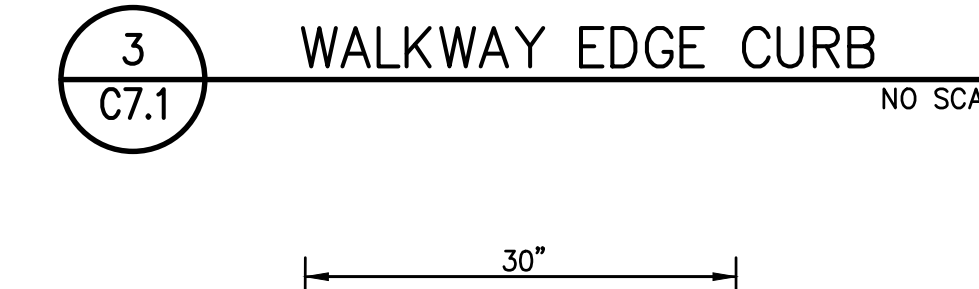
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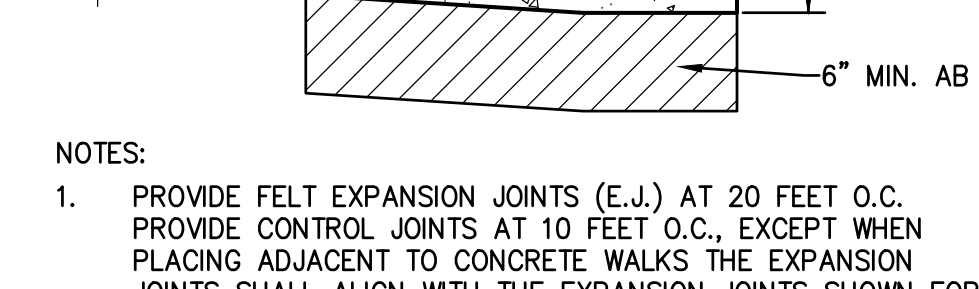
21 C7.1 CONCRETE CURB AND GUTTER NO SCALE



22 C7.1 CONCRETE CURB AND GUTTER NO SCALE



23 C7.1 CONCRETE CURB AND GUTTER NO SCALE



24 C7.1 CONCRETE CURB AND GUTTER NO SCALE

25 C7.1 CONCRETE CURB AND GUTTER NO SCALE

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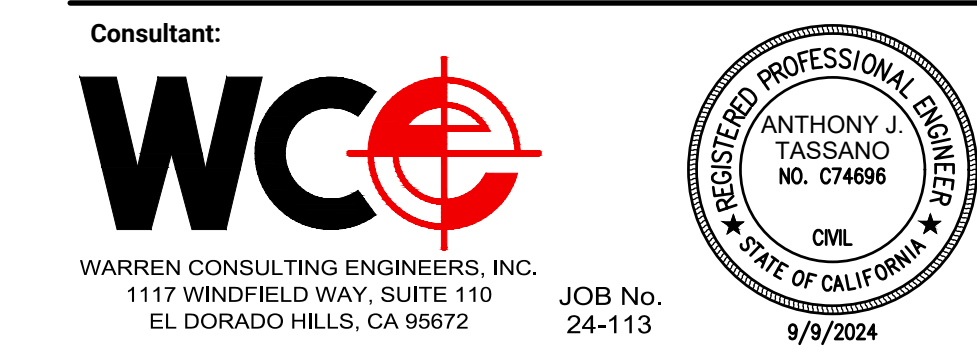
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DETAILS AND SECTIONS

DSA SUBMITTAL

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MC-3500 STORMTECH CHAMBER SPECIFICATIONS

- CHAMBERS SHALL BE STORMTECH MC-3500.
- CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.
- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 454/N DESIGNATION SS.
- CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPEDE FLOW OR LIMIT ACCESS FOR INSPECTION.
- THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO UNFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION (DEAD) LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.
- CHAMBERS SHALL BE DESIGNED, TESTED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 430 LBS/FT³. THE AIS IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 22° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.
- ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:
 - THE STRUCTURAL EVALUATION SHALL BE SIGNED BY A REGISTERED PROFESSIONAL ENGINEER.
 - THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO UNFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
 - THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.
- CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF MC-3500 CHAMBER SYSTEM

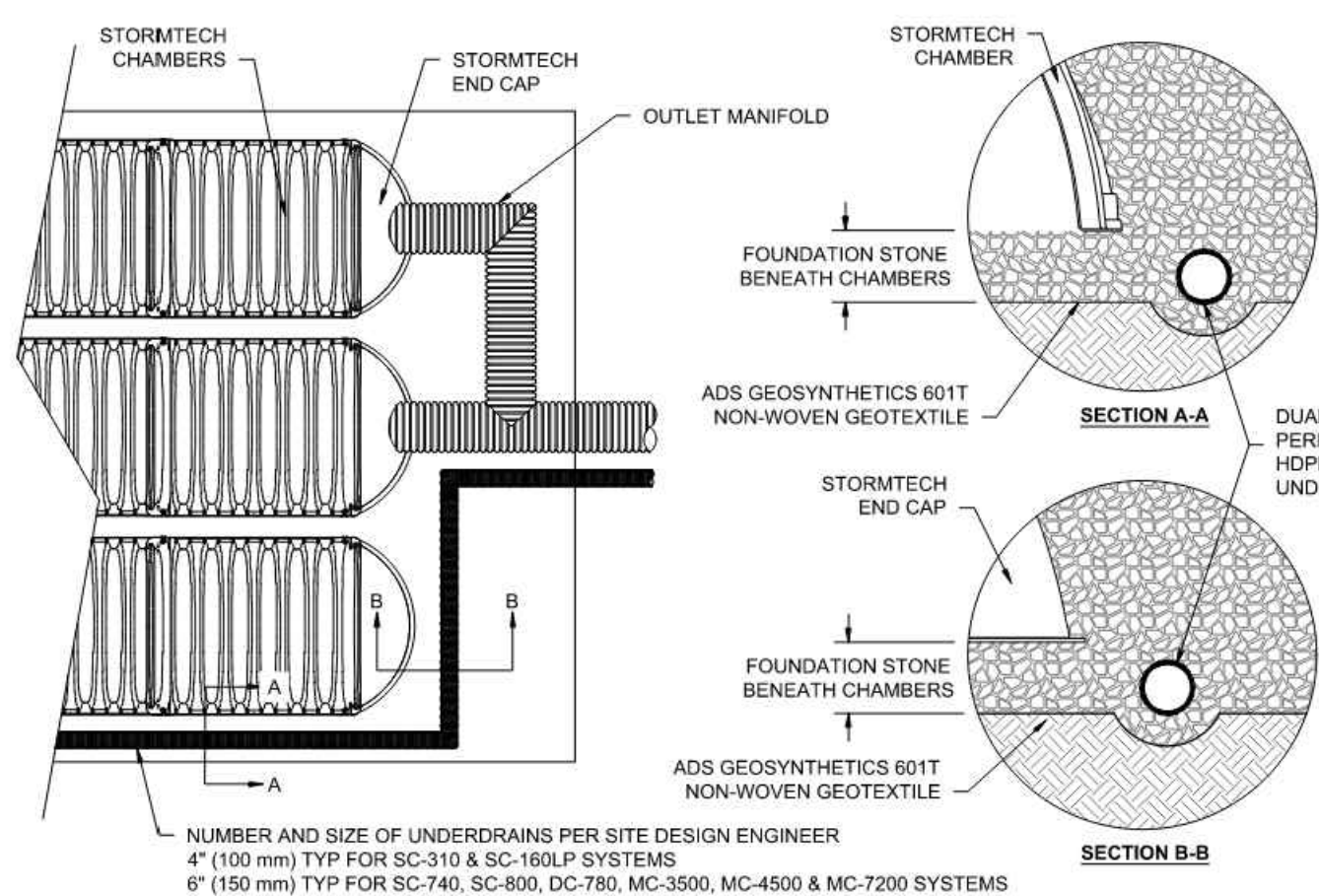
- STORMTECH MC-3500 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
- STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
- CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS.
 - STONES/ROCKS LOCATED OFF THE CHAMBER BED.
 - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
 - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
- THE FOUNDATION STONE SHALL BE LEVELLED AND COMPACTED PRIOR TO PLACING CHAMBERS.
- JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
- MAINTAIN MINIMUM SPACING BETWEEN THE CHAMBER ROWS.
- INLET AND OUTLET MANIFOLDS MUST BE INSERTED A MINIMUM OF 12" (300 mm) INTO CHAMBER END CAPS.
- EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE MEETING THE AASHTO M43 DESIGNATION OF #3 OR #4.
- STONE MUST BE PLACED ON THE TOP CENTER OF THE CHAMBER TO ANCHOR THE CHAMBERS IN PLACE AND PRESERVE ROW SPACING.
- THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
- ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

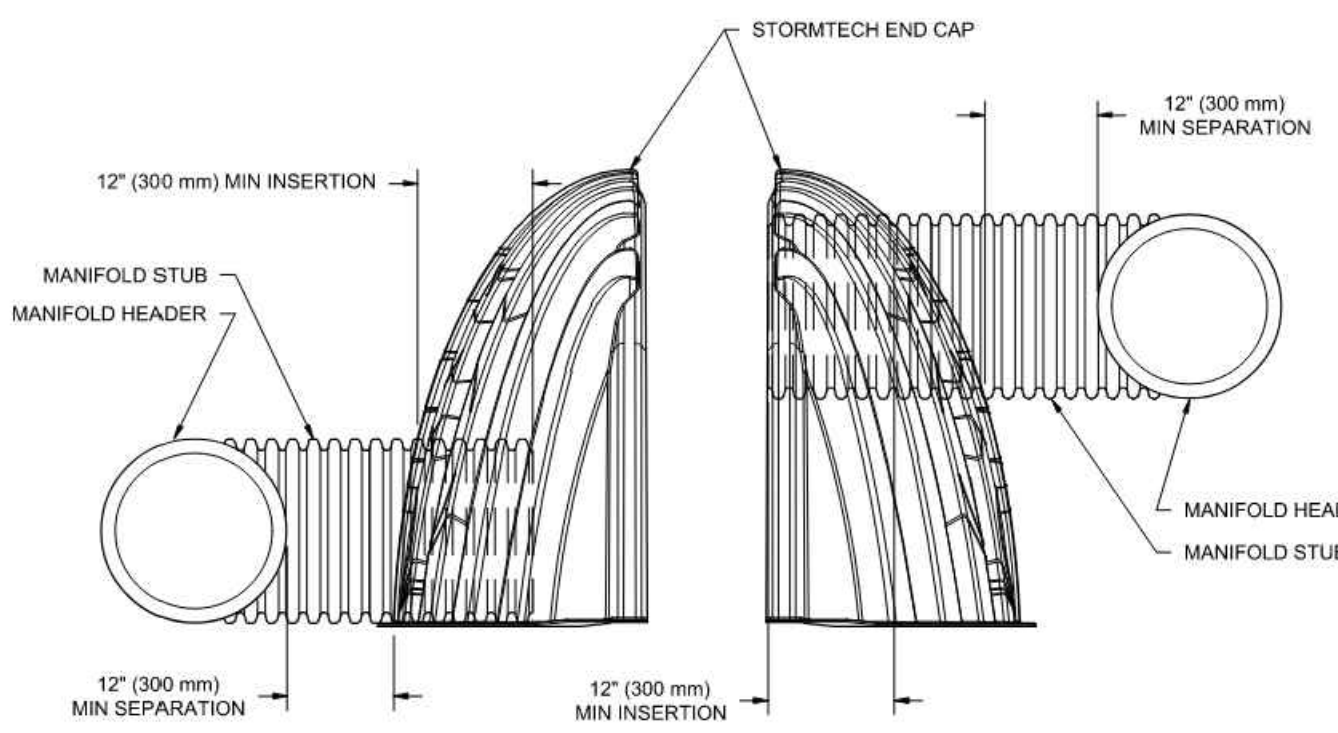
- STORMTECH MC-3500 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
- THE USE OF EQUIPMENT OVER MC-3500 CHAMBERS IS LIMITED:
 - NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
 - NO RUBBER TIRE LOADER, DUMP TRUCK, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE.
 - WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
- FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY USING THE "PUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-888-892-2894 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.



5 UNDERDRAIN DETAIL



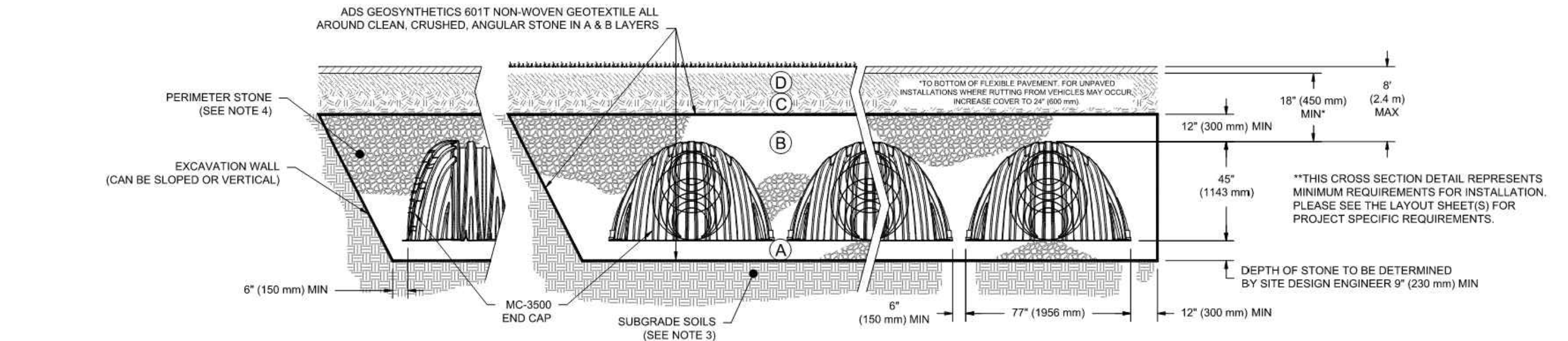
6 MC-SERIES END CAP INSERTION DETAIL

ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'C' LAYER.	AASHTO M43 ¹ A-1, A-2, A-3 OR AASHTO M43 ¹ 3, 357, 4, 487, 5, 56, 57, 6, 67, 68, 7, 76, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 18" (450 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT AGGREGATE LAYERS 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
B	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	AASHTO M43 ¹ 3, 357, 4, 487, 5, 56, 57	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	AASHTO M43 ¹ 3, 357, 4, 487, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{1,3}

PLEASE NOTE:

- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
- STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) MAX LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
- WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION FOR STANDARD DESIGN LOAD CONDITIONS, A P-T SURFACE MAY BE ACHIEVED WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
- ONCE LAYER 'C' IS PLACED, ANY SOLID MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL. REQUIREMENTS OF LAYER 'D' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.
- WHERE RECYCLED CONCRETE AGGREGATE IS USED IN LAYERS 'A' OR 'B' THE MATERIAL SHOULD ALSO MEET THE ACCEPTABILITY CRITERIA OUTLINED IN TECHNICAL NOTE 6.20 "RECYCLED CONCRETE STRUCTURAL BACKFILL".

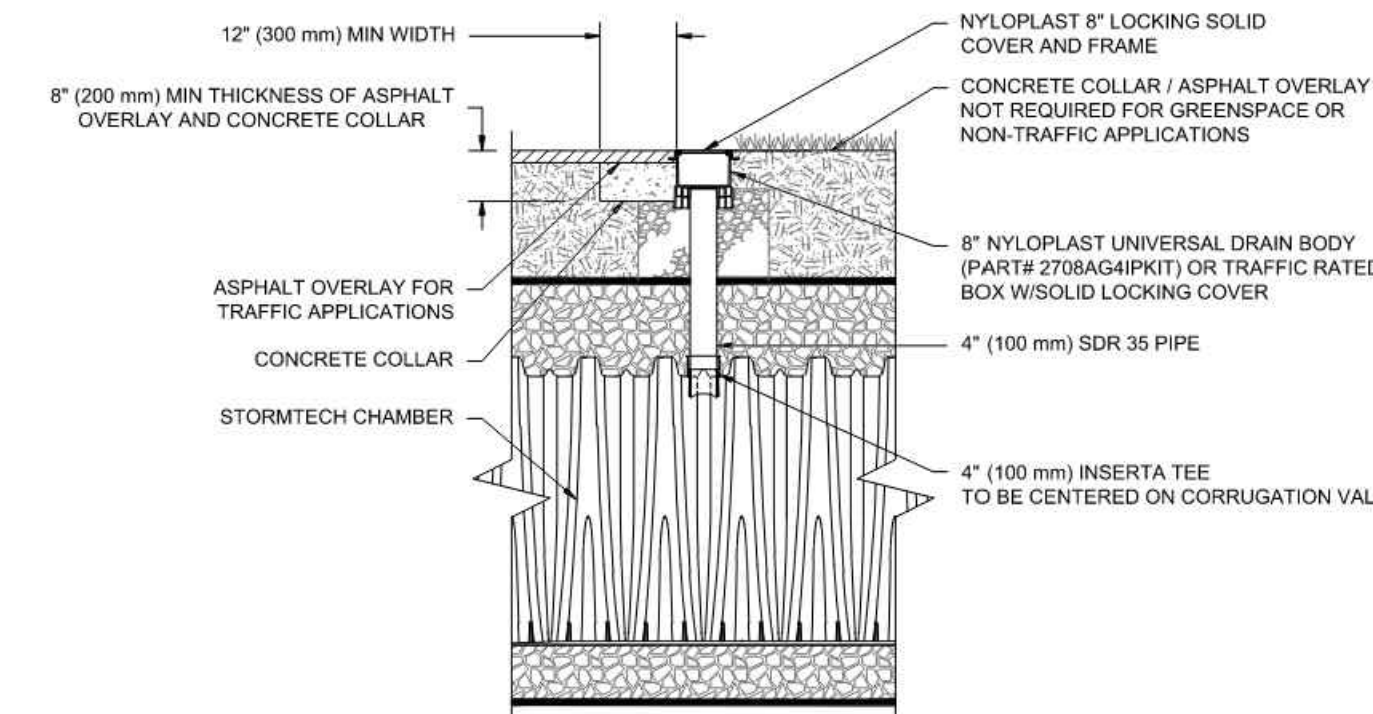


NOTES:

- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 454/N DESIGNATION SS.
- MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
 - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
 - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
 - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 500 LBS/FT³. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 22° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

1 MC-3500 CROSS SECTION DETAIL

3 MC-3500 ISOLATOR ROW PLUS DETAIL



INSPECTION & MAINTENANCE

- STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- INSPECTION PORTS (IF PRESENT).
 - REMOVE OPEN LID ON NYLOPLAST INLINE DRAIN.
 - REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED.
 - USING A FLASHLIGHT AND STODIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG.
 - LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL).
 - IF SEDIMENT IS AT OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
 - ALL ISOLATOR ROW PLUS
 - REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS.
 - USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE.
 - MIRRORS OR POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY.
 - FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE.
 - IF SEDIMENT IS AT OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A FRIED CULVERT CLEANING ACCESS WITH REAR FACING SPRING OF 45" (1.1 m) OR MORE IS PREFERRED.
 - APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLOW WATER IS CLEAN.
 - VACUUM STRUCTURE SUMP AS REQUIRED.
- STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.
- STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES

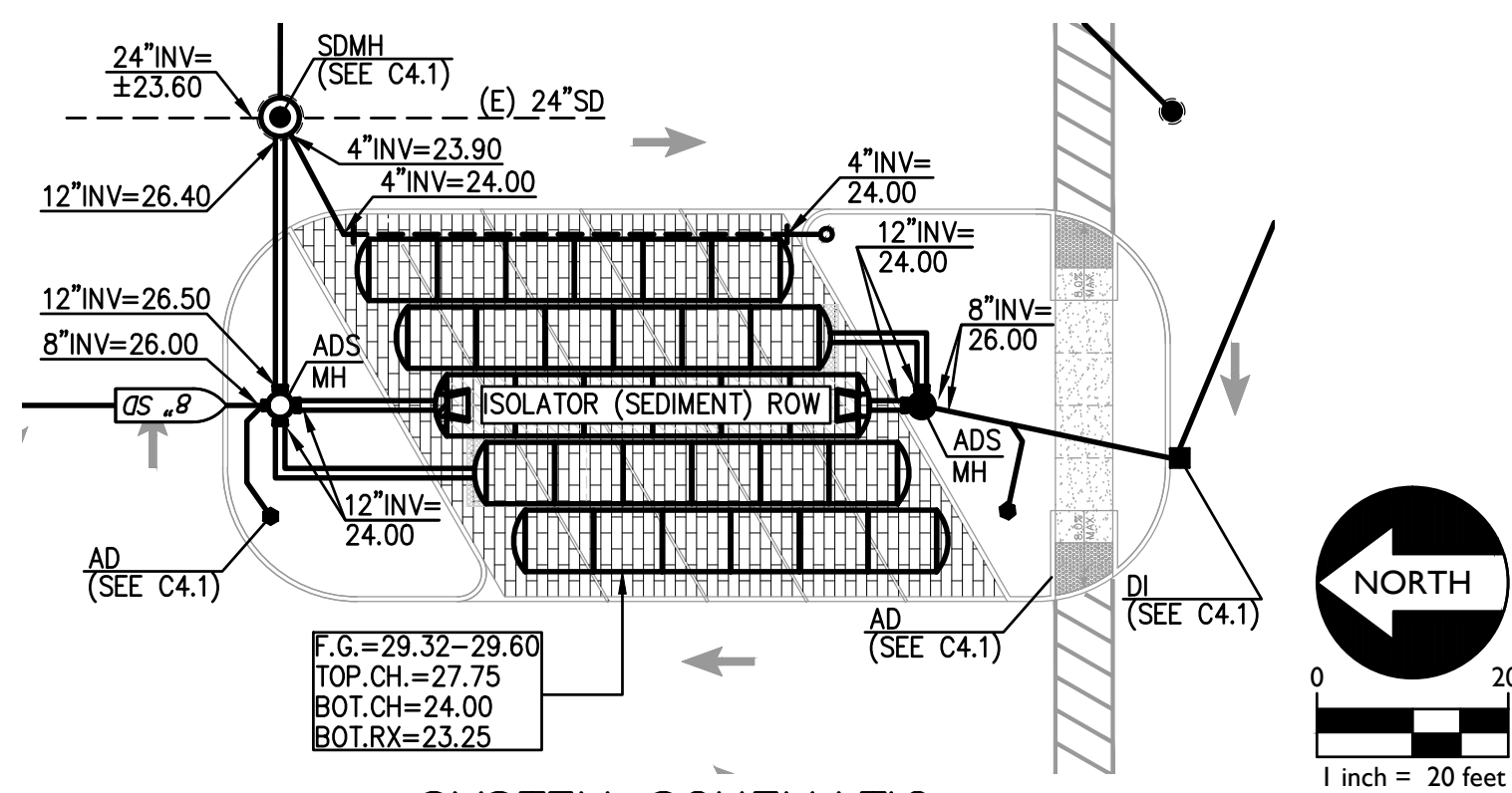
- INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
- CONDUCT JETTING AND VACUUMING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

4 4" PVC INSPECTION PORT DETAIL (MC SERIES CHAMBER)

1
C7.4

NOTE: STORMTECH SC-740 CHAMBER SYSTEM IS THE BASIS OF DESIGN, HOWEVER, ALTERNATIVE PRODUCTS WILL BE APPROVED IF FOUND TO BE EQUIVALENT BUT SHALL REQUIRE ADDITIONAL DSA APPROVAL BY CDD.

SUBSURFACE DETENTION / RETENTION SYSTEM



SYSTEM SCHEMATIC

STORAGE CAPACITY CALCULATIONS:

SYSTEM CATCHMENT AREA: 1.15 ACRES
RAINFALL DEPTH (2YR-24HR) = 1.29 (FROM NOAA ATLAS 14)

REQUIRED VOLUME (FROM TABLE RIGHT) = 5,221 CF

SYSTEM VOLUME:

CHAMBER TYPE: ADS MC3500 SERIES
CHAMBER VOLUME: 175 CF PER CHAMBER (INCLUDES AGGREGATE SURROUND)
NO. OF CHAMBERS: 30

TOTAL SYSTEM VOLUME: 5,250 CF

(NOTE: ADDITIONAL VOLUME IS PROVIDED IN CONNECTING PIPES AND STRUCTURES BUT IS NOT INCLUDED IN CALCULATION)

$C = 0.858 D^2 - 0.78 D + 0.774 I + 0.04$			
$WQV = PQ \cdot A / 12$			
Where:	$PQ = (a \cdot C) \cdot PE$	1.25	(automatically calculated through formula)
	$C = \text{Runoff Coefficient}$	0.49	(automatically calculated through formula)
	$I = \text{Site Imperviousness (\%)}$	0.70	$\leftarrow (0.5+0.03, 100\%+1.00)$
	$A = \text{Drainage Area (acres)}$	1.15	acres (from above)
	$a = \text{Regression constant (see right)}$	1.963	$\leftarrow \text{Enter } \leftarrow$
	$PE = \text{Mean Annual Rainfall (in-24hr)}$	1.29	inches
	$WQV = \text{Flow (cfs)}$	0.037	in cfs
		5,221	in cfs

AGENCY
APPROVAL:



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Architects
3595-002-100

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916 368 7990 / www.hmcarchitects.com

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SHEET NAME:

DETAILS AND SECTIONS

DSA SUBMITTAL

DATE: 08/22/24

CLIENT PROJ NO:

SHEET:

NO SCALE

ELECTRICAL GENERAL NOTES

- ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN COMPLIANCE WITH THE FOLLOWING CODES AS AMENDED AND ADOPTED BY THE AUTHORITY(IES) HAVING JURISDICTION: 2022 CALIFORNIA ADMINISTRATIVE CODE (CAC), 2022 CALIFORNIA BUILDING CODE (CBC), 2022 CALIFORNIA FIRE CODE (CFC), 2022 CALIFORNIA MECHANICAL CODE (CMC), 2022 CALIFORNIA PLUMBING CODE (CPC), 2022 CALIFORNIA ELECTRICAL CODE (CEC), 2022 CALIFORNIA ENERGY CODE (CENC), 2022 CALIFORNIA GREEN BUILDING CODE (CGC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA), TITLE 19 C.C.R. PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS, AND ANY OTHER LOCAL CODES, ORDINANCES, REGULATIONS, OR AUTHORITIES HAVING JURISDICTION. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES OR OTHER CODES AND REGULATIONS APPLICABLE TO THIS PROJECT. THESE CODES SHALL DETERMINE MINIMUM REQUIREMENTS FOR MATERIALS, METHODS, AND LABOR PRACTICES NOT OTHERWISE DEFINED IN THESE SPECIFICATIONS.
- ALL CONDUCTORS SHALL BE PER DESIGN SHEETS, CEC AND MAXIMUM VOLTAGE DROP OF 5% WILL DEFINE CONDUCTOR SIZING.
- ALL CONDUCTORS SHALL BE IN CONDUITS, U.O.N. CONDUITS SHALL BE USED IN THE FOLLOWING METHODS:
 - POLYVINYL CHLORIDE (PVC) CONDUITS ALLOWED FOR UNDERGROUND OTHERWISE PROVIDE RMC OR IMC, INSTALL PER CEC TABLE 300.5 BURIAL DEPTH REQUIREMENTS
 - ELECTRICAL METALLIC TUBING (EMT) WITH COMPRESSION FITTINGS MAY BE USED IN OR ON WALLS OR CEILINGS WHERE NOT SUBJECT TO MECHANICAL DAMAGE, DAMP CONDITIONS OR CORROSIVE CONDITIONS;
 - LIQUID TIGHT FLEXIBLE METAL CONDUIT WHERE REQUIRED;
 - FLEXIBLE METALLIC CONDUIT, WHERE REQUIRED BY CEC, IN DRY LOCATIONS. NOTE: ALL CONDUITS IN HAZARDOUS LOCATIONS (PER CEC) SHALL MEET THE REQUIREMENTS OF CEC CHAPTER 5.
 - CONNECTION TO LIGHT FIXTURES ABOVE LAY-IN CEILING MAY USE 3/8" FLEXIBLE METAL CONDUIT PER CEC 348.20(A)(2)
 - ALL EXPOSED CONDUIT SUBJECT TO WEAR OR COLLISION SHALL BE RIGID GALVANIZED STEEL (RGS) OR INTERMEDIATE METALLIC TUBING (IMT), APPLY BUTYRAMATIC COATING TO ALL METALLIC CONDUITS IN SLABS OR UNDERGROUND.
 - PROVIDE FIRE RETARDANT U.L. APPROVED SEALANT ON ALL RACEWAY PENETRATIONS OF FIRE RATED CEILINGS, PARTITIONS, WALLS AND STRUCTURAL SLABS.
- FOR TELEPHONE SYSTEM, PROVIDE GROUNDING FOR ALL TELEPHONE BACKBOARDS, TERMINAL CABINETS AND EQUIPMENT PER REQUIREMENTS OF CEC 800 AND TELEPHONE COMPANY.
- ALL EQUIPMENT SHALL BE PROVIDED WITH AN APPROVED DISCONNECTING MEANS PER CEC. ALL DISCONNECT SWITCHES SHALL BE SIZED PER CEC TO ACCOMMODATE EQUIPMENT SERVED, INCLUDING REQUIRED FUSES, U.O.N. SWITCHES SHALL BE HORSE POWER RATED, OF HEAVY DUTY TYPE. PROVIDE MEANS FOR PULL LOOKING IN THE OPEN POSITION.
- ALL CIRCUIT BREAKERS SHALL BE INVERSE TIME (THERMAL MAGNETIC) "PERMANENT TRIP" TYPE. TWO AND THREE POLE CIRCUIT BREAKERS SHALL BE COMMON TRIP. AMPACITY IS EQUAL TO OR GREATER THAN CIRCUIT BREAKER FRAME AMPERE RATING.
- ALL CONNECTIONS TO GROUND RODS AND GRID, ETC., SHALL BE MADE WITH U.L. APPROVED WELDED CONNECTIONS, UNLESS NOTED OTHERWISE.
- LIGHTING SYSTEMS SHALL COMPLY WITH CENC. ALL LIGHTING FIXTURES, LAMPS, BALLASTS, DIMMER SWITCHES, AND CONTROLS SHALL BE CERTIFIED WITH THE CALIFORNIA ENERGY COMMISSION AS MEETING ALL CENC REQUIREMENTS AND BE LISTED IN THE APPLICABLE ENERGY COMMISSION DIRECTORY. ALL SUCH DEVICES AND EQUIPMENT SHALL BE INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS. LIGHT FIXTURES IN SUSPENDED CEILINGS SHALL BE SUPPORTED IN STRICT ACCORDANCE WITH CEC SEISMIC REQUIREMENTS.
- LIGHT POLLUTION REDUCTION: OUTDOOR LIGHTING SYSTEMS SHALL BE INSTALLED TO COMPLY WITH THE FOLLOWING:
 - 1) THE MINIMUM REQUIREMENTS IN CENC FOR LIGHTING ZONES 0-4 AS DEFINED IN CH. 10 OF CAC
 - 2) BACKLIGHT RATINGS AS DEFINED IN IES TM-15-11
 - 3) UPLIGHT AND GLARE RATINGS AS DEFINED IN CEC TABLES 130.2-A AND 130.2B
 - 4) ALLOWABLE BUG RATING NOT EXCEEDING THOSE SHOWN IN TABLE 5.106.8, ORCOMPLY WITH A LOCAL ORDINANCE LAWFULLY ENACTED PURSUANT TO SECTION 101.7, WHICHEVER IS MORE STRINGENT.
- ALL ELECTRICAL EQUIPMENT, DEVICES, WIRE, ETC., SHALL BE LISTED, FOR THE INTENDED USE, WITH UNDERWRITER'S LABORATORIES, INC. (UL), WHERE STANDARDS HAVE BEEN ESTABLISHED BY UL. ALL EQUIPMENT SHALL BE RAIN TIGHT WHERE EXPOSED TO THE WEATHER. ALL FLEX CONDUITS CONNECTED TO SUCH EQUIPMENT SHALL BE METALLIC LIQUID TIGHT. ALL EQUIPMENT IN HAZARDOUS LOCATIONS, PER CEC, CHAPTER 5, SHALL BE IN ACCORDANCE WITH THE CEC. ALL EQUIPMENT IN CORROSIVE ENVIRONMENTS SHALL BE IN ENCLOSURES (SUCH AS NEMA 4X) RATED FOR THE ENVIRONMENT.
- RECEPTACLES AND SWITCHES INTENDED TO BE ACCESSIBLE TO THE PUBLIC SHALL BE INSTALLED IN ACCORDANCE WITH CEC 118-308. INSTALLATION HEIGHT ABOVE FINISHED FLOOR OR GROUND SHALL BE AS FOLLOWS: TOP OF UNOBSTRUCTED OUTLET BOXES SHALL BE NO MORE THAN 48 INCHES, BOTTOM OF UNOBSTRUCTED OUTLET BOXES SHALL BE NO LESS THAN 15 INCHES, ETC.
- UTILITY SERVICE AND REQUIREMENTS SHALL BE COORDINATED WITH POWER SERVICE WITH POWER COMPANY. PROVIDE FOR ALL STANDARD POWER COMPANY REQUIREMENTS. FAULT CURRENT RATINGS SHALL BE PROVIDED BY UTILITY.
- THE LAYOUTS OF THE CONTRACT DRAWINGS ARE DIAGRAMMATIC. IT IS NOT INTENDED TO SHOW EVERY OFFSET AND FITTING, NOR EVERY STRUCTURAL DIFFICULTY THAT WILL BE ENCOUNTERED DURING THE INSTALLATION OF THE WORK. ALIGNMENT OF EQUIPMENT AND ROUTING OF RACEWAYS MAY BE VARIED SLIGHTLY TO ACCOMMODATE ARCHITECTURAL CONDITIONS OR TO AVOID THE WORK OF OTHER TRADES. IF ANY CONFLICTS OCCUR NECESSITATING DEPARTURES FROM CONTRACT DRAWINGS, DETAILS OF DEPARTURES AND REASONS THEREFORE SHALL BE SUBMITTED AS SOON AS PRACTICABLE FOR WRITTEN APPROVAL OF THE ENGINEER.
- THE WORD "CONTRACTOR", AS USED IN THE ELECTRICAL CONTRACT DOCUMENTS, SHALL MEAN THE PRIME (I.E. GENERAL) CONTRACTOR AND HIS/HER SUBCONTRACTORS FOR THE APPROPRIATE TRADE. WHERE THE OWNER ACTS AS HIS OWN CONTRACTOR, THE WORD CONTRACTOR APPLIES TO THE OWNER.
- CONTRACTOR SHALL PROVIDE EVIDENCE OF LICENSING, BONDING, AND INSURANCE, AND PROVIDE OTHER NECESSARY ADMINISTRATIVE FUNCTIONS FOR CONTRACTOR'S WORK.
- CONTRACTOR SHALL PROCURE AND PAY FOR ALL REQUIRED PERMITS AND SERVICE CHARGES.
- COORDINATION: CONFORM TO GENERAL CONSTRUCTION CONTRACT DOCUMENTS EXCEPT AS MODIFIED HEREIN. REFER ALSO TO STRUCTURAL AND MECHANICAL CONTRACT DOCUMENTS. COORDINATE ALL WORK WITH OTHER TRADES.
- CUTTING AND PATCHING: ANY CUTTING, ATTACHING, OR WELDING TO BUILDING STRUCTURE SHOULD BE COORDINATED AND APPROVED BY A CALIFORNIA LICENSED STRUCTURAL ENGINEER. PATCHING SUBJECT TO ACCEPTANCE BY OWNER.
- SAW CUT TRENCHES IN SLAB SHALL BE FULLY RESTORED AND REINFORCED TO PREVENT SAGGING. ROUGHEN SAW CUT EDGES PRIOR TO RE-POURING CONCRETE.
- COORDINATE ALL WORK WITH OTHER TRADES TO PROVIDE A COMPLETE INSTALLATION. CONNECT ALL EQUIPMENT FURNISHED BY OTHERS AS REQUIRED. INSTALL ALL WORK TO CLEAR ARCHITECTURAL AND STRUCTURAL MEMBERS. INSTALL ALL ABOVE GRADE (OVERHEAD) PIPING AS HIGH AS PRACTICAL.
- RESTORE ALL DAMAGE RESULTING FROM THE WORK AND LEAVE PREMISES IN CLEAN CONDITION WHEN FINISHED WITH WORK. ADJUST, CLEAN, REPAIR, OR REPLACE PRODUCTS, WHICH HAVE BEEN DAMAGED.
- PROVIDE FLASHING AND COUNTER FLASHING FOR ALL WALL AND ROOF PENETRATIONS.
- WARRANTY: ALL MATERIALS AND EQUIPMENT INSTALLED UNDER THIS CONTRACT SHALL BE GUARANTEED FREE FROM ALL MECHANICAL, ELECTRICAL, AND WORKMANSHIP DEFECTS FOR A MINIMUM OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO THE PREMISES CAUSED BY WORK UNDER THIS CONTRACT, AS WELL AS ANY DAMAGE FROM LEAKS VIA ROOF PENETRATIONS MADE AND SEALED UNDER CONTRACTOR'S SCOPE.

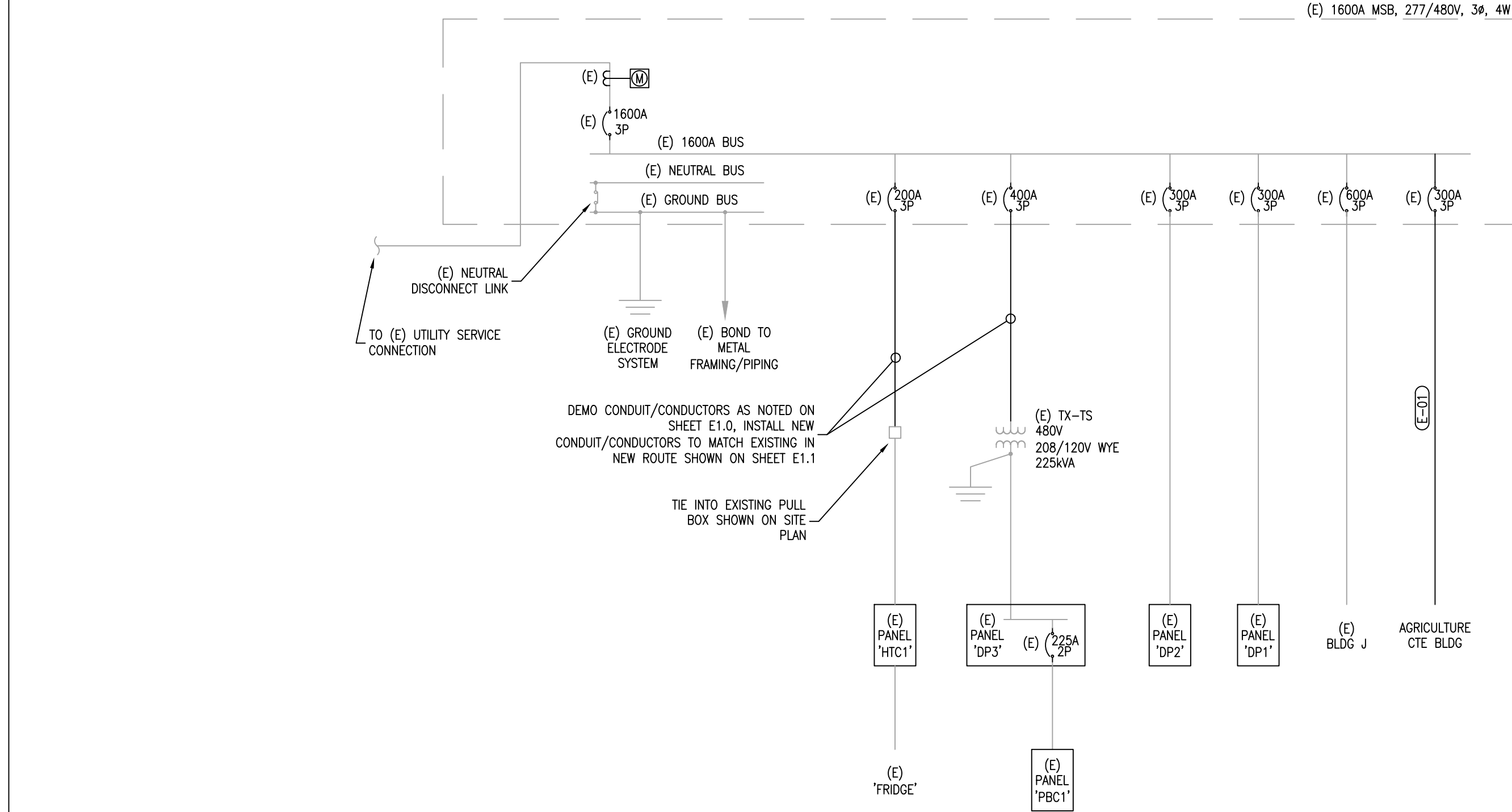
ELECTRICAL CALGREEN NOTES

- 5.106.5.3 ELECTRIC VEHICLE (EV) CHARGING. CONSTRUCTION SHALL COMPLY WITH CGC SECTION 5.106.5.3.1 OR SECTION 5.106.5.3.2 TO FACILITATE FUTURE INSTALLATION OF ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE).
- 5.106.5.3.1 SINGLE CHARGING SPACE REQUIREMENTS. WHEN ONLY A SINGLE CHARGING SPACE IS REQUIRED PER CGC TABLE 5.106.5.3.3, A RACEWAY IS REQUIRED TO BE INSTALLED AT THE TIME OF CONSTRUCTION AND SHALL BE INSTALLED IN ACCORDANCE WITH CEC.
- 5.106.5.3.2 MULTIPLE CHARGING SPACES REQUIREMENTS. WHEN MULTIPLE CHARGING SPACES ARE REQUIRED PER CGC TABLE 5.106.5.3.3, RACEWAY(S) IS/ARE REQUIRED TO BE INSTALLED AT THE TIME OF CONSTRUCTION AND SHALL BE INSTALLED IN ACCORDANCE WITH CEC.
- 5.106.5.3.3 EV CHARGING SPACE CALCULATION. CGC TABLE 5.106.5.3.3 SHALL BE USED TO DETERMINE IF SINGLE OR MULTIPLE CHARGING SPACE REQUIREMENTS APPLY FOR THE FUTURE INSTALLATION OF EVSE.
- 5.106.5.3.4 IDENTIFICATION. THE SERVICE PANEL OR SUBPANEL(S) CIRCUIT DIRECTORY SHALL IDENTIFY THE RESERVED OVERCURRENT PROTECTIVE DEVICE SPACE(S) FOR FUTURE EV CHARGING AS "EV CAPABLE". THE RACEWAY TERMINATION SHALL BE PERMANENTLY AND VISIBLY MARKED AS "EV CAPABLE"
- 5.106.5.3.5 FUTURE CHARGING SPACES. FUTURE CHARGING SPACES QUALIFY AS DESIGNATED PARKING AS DESCRIBED IN CGC SECTION 5.106.5.2 DESIGNATED PARKING FOR CLEAN AIR VEHICLES.

MEP ANCHORAGE AND BRACING NOTE

ALL NEW CONDUIT AND PULL BOXES WILL BE INSTALLED IN GROUND, THEREFORE, THE ANCHOR AND BRACING NOTE BLOCK FOR NEW EQUIPMENT AND CONDUIT DOES NOT APPLY TO THIS INCREMENT

ONE-LINE DIAGRAM



FEEDER SCHEDULE

TAG	# OF SETS	CONDUIT (PER SET)	CONDUCTORS (PER SET)		REMARKS
			PHASE/NEUTRAL	GROUND	
E-01	1	4*	-	-	PROVIDE PULL STRING FOR FUTURE CONDUCTORS

ONE-LINE NOTES:

- (N) = NEW
(E) = EXISTING
(R) = RELOCATED
(F) = FUTURE
- ALL EQUIPMENT/WIRING IS (N) U.O.N.
- ALUMINUM WIRING INSULATION SHALL BE XHHW, U.O.N. COPPER WIRING INSULATION SHALL BE THHN-2, U.O.N.
- THE SERVICE DISCONNECT SHALL BE PERMANENTLY MARKED PER CEC 230.70(B)
- POST A DATED AVAILABLE FAULT CURRENT CALCULATION AT THE SERVICE EQUIPMENT PER CEC 110.24
- SWITCHBOARDS, PANELBOARDS, INDUSTRIAL CONTROLS PANELS, ETC. SHALL BE FIELD OR FACTORY MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS. MARKING SHALL MEET 110.21(B) AND BE CLEARLY VISIBLE PER CEC 110.16
- ALL SWITCHBOARDS AND PANELBOARDS SUPPLIED BY A FEEDER SHALL BE MARKED TO INDICATE THE DEVICE OR EQUIPMENT WHERE THE POWER SUPPLY ORIGINATES PER CEC 408.4(B)
- POST IDENTIFICATION FOR CONDUCTORS OF DIFFERENT VOLTAGE SYSTEMS PER CEC 210.5

ELECTRICAL LEGEND

- 2x4 LIGHT FIXTURE (SURFACE, RECESSED)
- 2x2 LIGHT FIXTURE (SURFACE, RECESSED)
- FIXTURE W/ BATTERY BACKUP (TYP. ALL SHADED FIXTURES)
- RECESSED DOWNLIGHT
- ROUND SURFACE MOUNT LIGHT
- PENDANT LIGHT
- TRACK LIGHT
- SIGNALIGHT
- WALL MOUNT LIGHT
- POLE MOUNT LIGHT - 2 HEAD
- POLE MOUNT LIGHT - 1 HEAD
- EXIT/EMERGENCY COMBO LIGHT
- EMERGENCY FIXTURE
- EXIT LIGHT
- CEILING EXHAUST FAN
- WALL MOUNTED SWITCH, MOUNT SO TOP IS AT 44" AFF
- WALL MOUNTED 3-WAY SWITCH, MOUNT SO TOP IS AT 44" AFF
- PHOTOCCELL
- PRIMARY DAYLIGHT AREAS
- SECONDARY DAYLIGHT AREAS
- CEILING MOUNTED SENSOR
- DUPLEX OUTLET - WALL (MOUNT SO BOTTOM IS 16" AFF), FLOOR, CEILING
- QUADRUPLUX OUTLET - WALL (MOUNT SO BOTTOM IS 16" AFF), FLOOR, CEILING
- DEDICATED OUTLET - WALL (MOUNT SO BOTTOM IS 16" AFF), FLOOR, CEILING
- 2-POLE OUTLET - 208/240V - WALL (MOUNT SO BOTTOM IS 16" AFF), FLOOR, CEILING
- 30A, 120V OUTLET (NEMA 5-30R), MOUNT SO BOTTOM IS 16" AFF
- 30A, 208/240V OUTLET (NEMA 6-30R), MOUNT SO BOTTOM IS 16" AFF
- DUPLEX OUTLET WITH USB PORT, MOUNT SO BOTTOM IS AT 16" AFF
- DATA PORT, MOUNT SO BOTTOM IS AT 16" AFF
- SMOKE DETECTOR
- CARBON MONOXIDE DETECTOR
- JUNCTION BOX
- DISCONNECT - POLES (CAPACITY/FUSE)
- HOME RUN - PANEL-CIRCUIT(S)
- WIRE/CONDUIT - OVERHEAD
- WIRE/CONDUIT - UNDERGROUND
- POWER PANEL
- TRANSFORMER
- AFF ABOVE FINISHED FLOOR
- +XX" HEIGHT (INCHES) AFF
- D DIMMER
- M OCCUPANCY SENSOR
- V VACANCY SENSOR
- GFI GROUND FAULT INTERRUPTER
- CH COUNTERHEIGHT (+44") AND GFI
- WP WEATHERPROOF
- HP HORSEPOWER
- BHP BRAKE HORSEPOWER
- NTS NOT TO SCALE
- TYP TYPICAL
- GND GROUND
- GEC GROUNDING ELECTRODE CONDUCTOR
- MSB MAIN SWITCHBOARD
- SBU SYSTEM BONDING JUMPER
- SSBU SUPPLY SIDE BONDING JUMPER
- BCPM BRANCH CIRCUIT POWER METER
- UON UNLESS OTHERWISE NOTED

AGENCY APPROVAL:



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FACILITY:
MERRILL F WEST HIGH SCHOOL

**1775 W LOWELL AVE
TRACY, CA 95376**

PROJECT:
**MERRILL F WEST HS AGRICULTURE CTE BLDG
INCREMENT 1**

SHEET NAME:
**ELECTRICAL ONE-LINE DIAGRAM &
GENERAL NOTES**

CONSTRUCTION

DATE: **09/04/24**

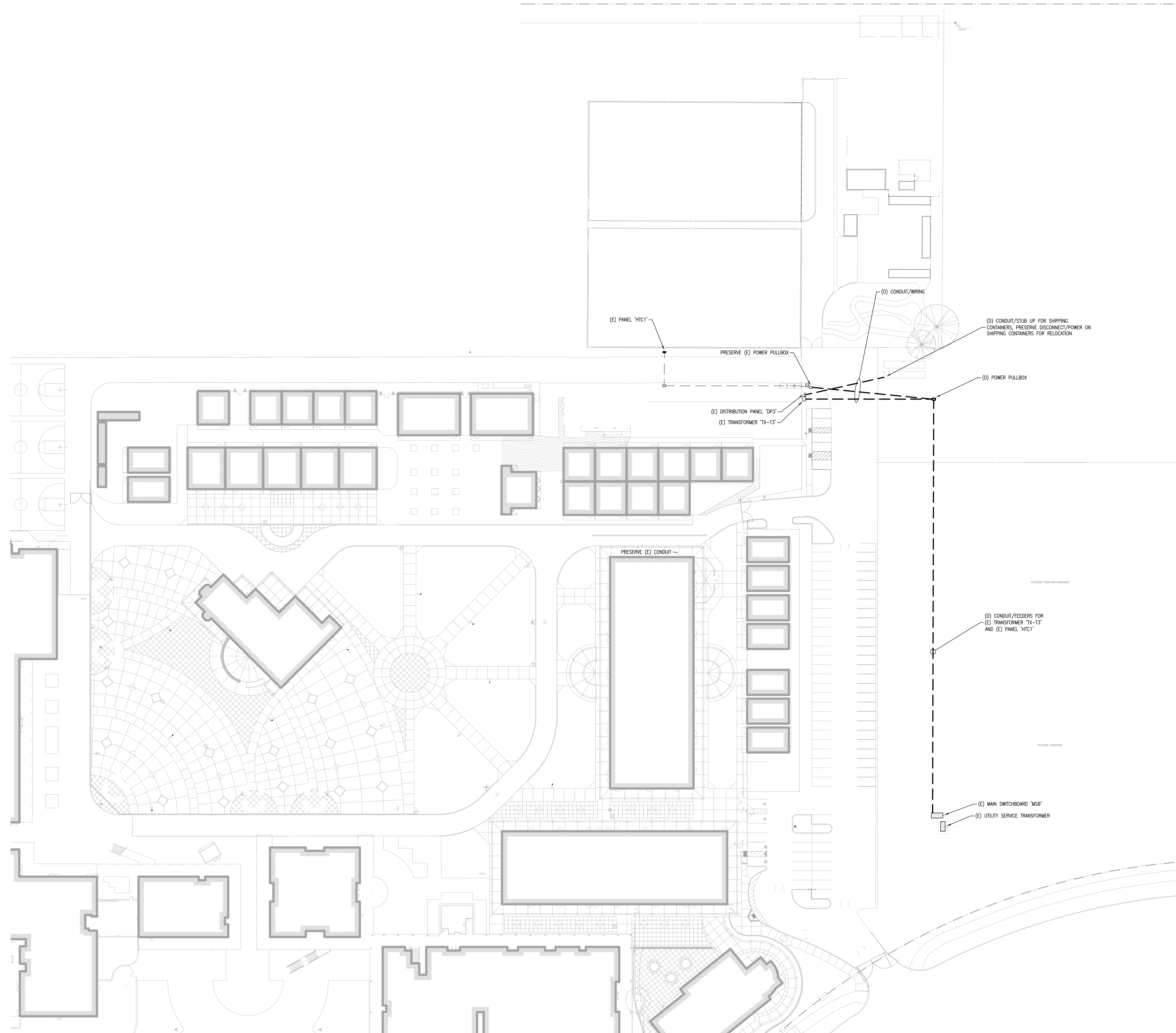
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SHEET: ORIGINAL PAGE 001



SHEET NOTES:
1. (E) EXISTING
(N) NEW
(R) RELOCATED
(D) DEMO

A ELECTRICAL SITE PLAN - EXISTING/DEMO
SCALE: 1"=40'-0"



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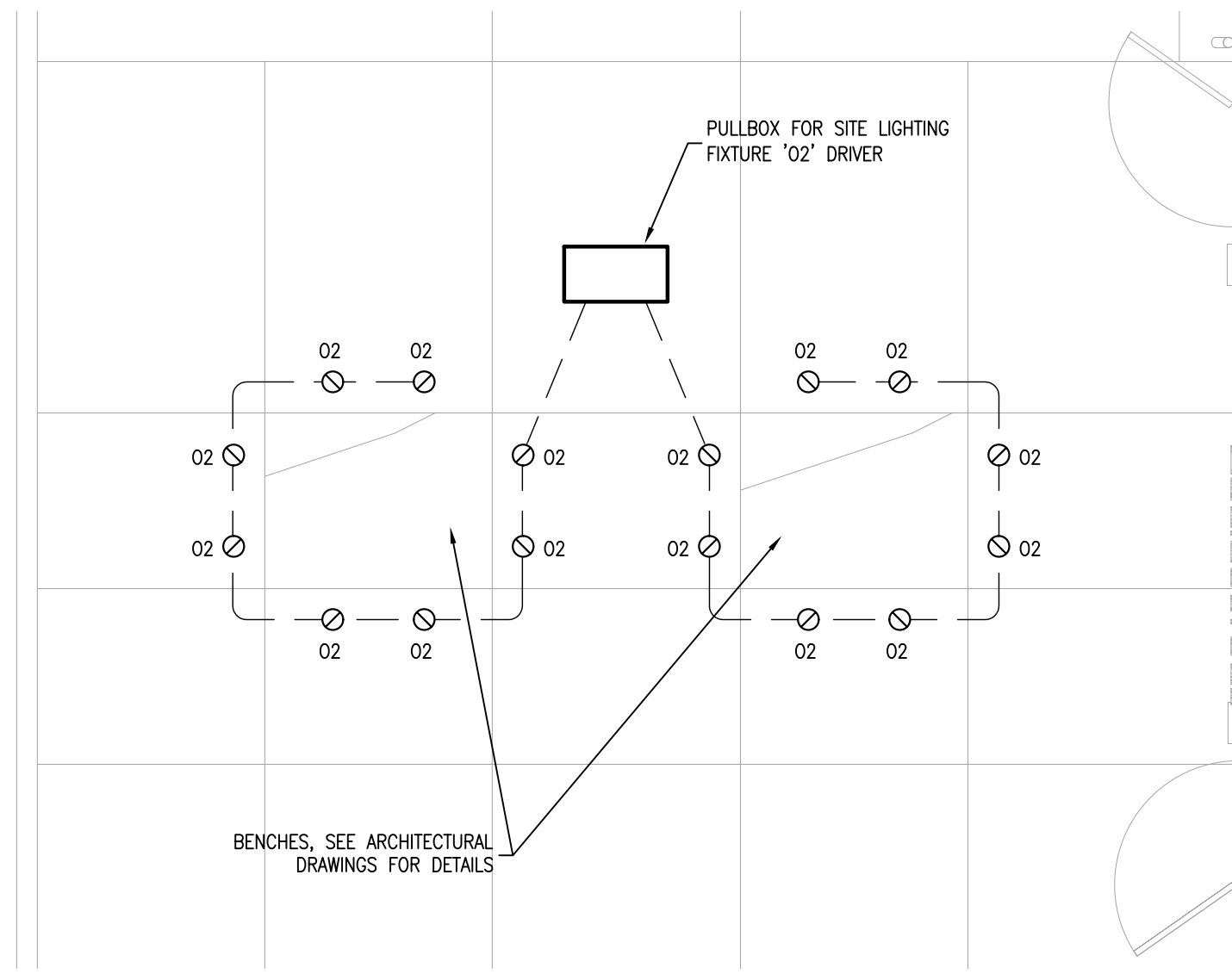
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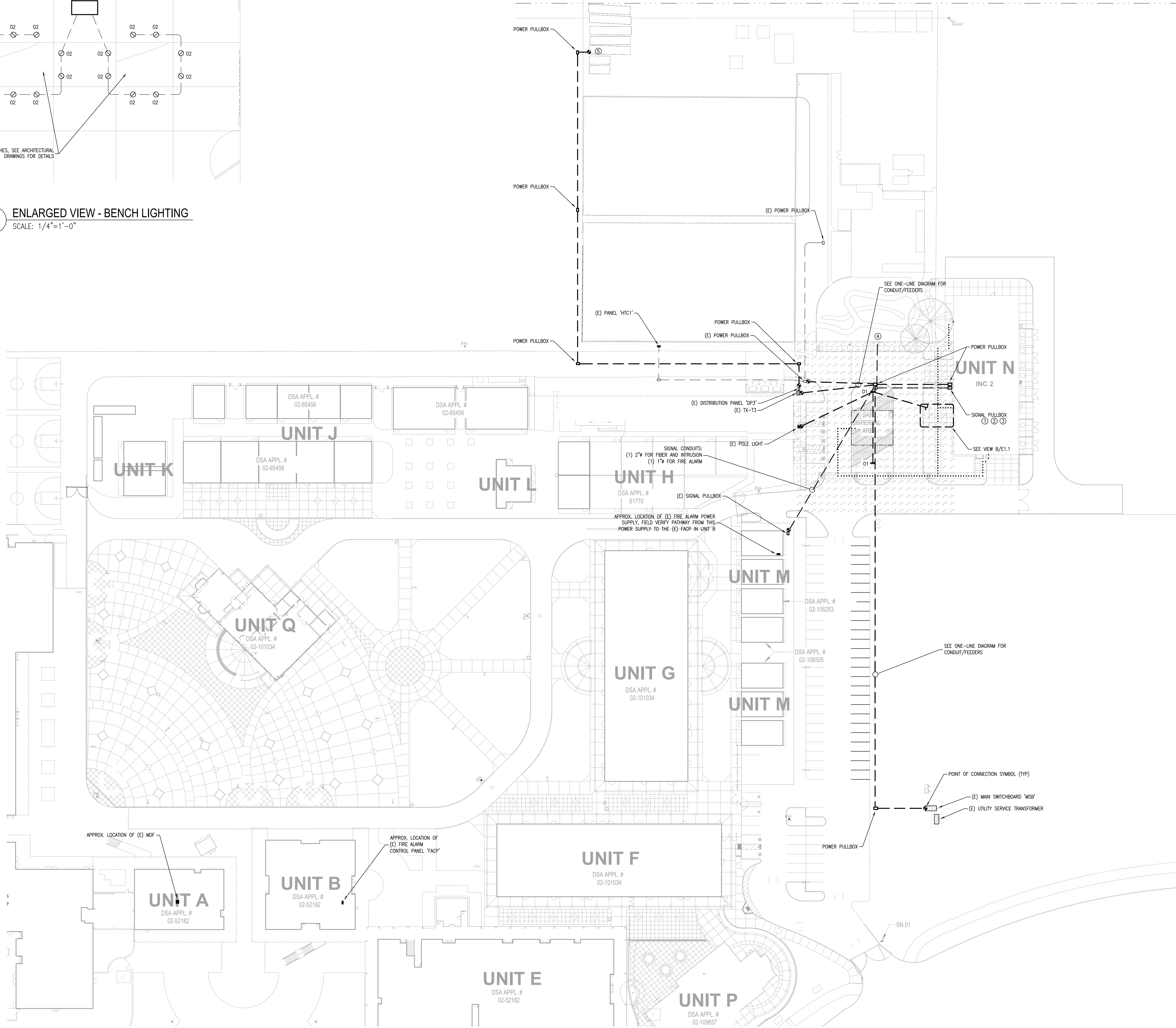
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BASED ON THE EXISTING
UTILITY ORIGINAL. PAGE 2 OF 2



B ENLARGED VIEW - BENCH LIGHTING
SCALE: 1/4"=1'-0"



SHEET NOTES:

- (E) EXISTING
(N) NEW
(R) RELOCATED
(D) DEMO
- ALL PULL BOXES, EQUIPMENT AND POWER/CONDUIT SHOWN ARE (N) U.O.N.
- ALL POWER WIRING TO BE #10 AWG CU AND ALL POWER/SIGNAL CONDUIT TO BE 1" U.O.N.
- ALL UNDERGROUND CONDUIT SHALL BE PVC U.O.N. AND HAVE A MINIMUM BURIAL DEPTH PER CCC TABLE 300.5
- PRIOR TO COMMENCING TRENCHING OPERATIONS, CONTACT THE UTILITIES UNDERGROUND SERVICE ALERT BUREAU AND DETERMINE THE EXACT LOCATION OF ANY EXISTING UTILITY LINES WHICH MIGHT BE DAMAGED DURING THE INSTALLATION OF THIS WORK. HAND TRENCH, BACKFILL, AND COMPACT IN AREAS OF EXISTING UTILITY LINES TO AVOID DAMAGE TO SAME.
- RESTORE ASPHALT, CONCRETE, AND LANDSCAPE SURFACE TO MATCH ORIGINAL CONDITION WHERE SAWCUTTING/TRENCHING IS REQUIRED OUTSIDE THE DEMOLISHED AREA PER THE CIVIL DEMOLITION DRAWINGS
- ALL PULL BOXES SHOWN SHALL BE TRAFFIC RATED
- PULL BOXES FOR POWER DISTRIBUTION SHALL BE ENGRAVED "ELECTRIC" ON LID, LOCATIONS ARE DIAGRAMMATIC AND NOT DIMENSIONED. REFER TO ONE-LINE DIAGRAM FOR FEEDER REQUIREMENTS
- PULL BOXES FOR SIGNAL SYSTEMS (FIBER AND FIRE ALARM) SHALL BE ENGRAVED "SIGNAL" ON LID, LOCATIONS ARE DIAGRAMMATIC AND NOT DIMENSIONED
- POINT OF CONNECTION FOR FIBER AND FIRE ALARM IS SHOWN ON THE SITE PLAN. THE INCREMENT 1 CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE (E) PATHWAY FROM THE POINT OF CONNECTION BACK TO THE (E) MDF AND (E) FACP RESPECTIVELY. NOTIFY ENGINEER OF RECORD OF ANY ISSUES OR DISCREPANCIES. PROVIDE PULL STRINGS FOR INCREMENT 2 WORK
- CONTRACTOR SHALL FIELD VERIFY (E) MDF EQUIPMENT AND PROVIDE ALL REQUIRED PARTS, CARDS, PROGRAMMING, ETC. TO FACILITATE THE ADDITION OF AN IDF DURING INCREMENT 2
- CALCULATED FOOT CANDLES SHOWN ARE BASED ON INCREMENT 1 SITE LIGHTING AND FUTURE INCREMENT 2 BUILDING MOUNTED LIGHTING

KEY NOTES:

- ENSURE A CONDUIT PATHWAY IS PROVIDED FROM THE NEW SIGNAL PULL BOX TO THE (E) MDF FOR NEW FIBER OPTIC WIRE TO BE INSTALLED DURING INCREMENT 2
- ENSURE A CONDUIT PATHWAY IS PROVIDED FROM THE NEW SIGNAL PULL BOX TO THE (E) FACP FOR NEW FIRE ALARM WIRING TO BE INSTALLED DURING INCREMENT 2
- ENSURE A CONDUIT PATHWAY IS PROVIDED FROM THE NEW SIGNAL PULL BOX TO THE (E) FACP FOR NEW FIRE ALARM WIRING TO BE INSTALLED DURING INCREMENT 2
- 1" CONDUIT AND RISER FOR FUTURE FIRE ALARM TAMPERSWITCH TO BE INSTALLED ON THE POST INDICATOR VALVE
- CONNECT NEW POWER TO (E) DISCONNECTS FOR RELOCATED STORAGE SHIPPING CONTAINERS FROM EXISTING CIRCUIT ASSIGNMENT IN "DPS"; PROVIDE (2) #10 CU THWN-2, (1) #12 CU GND IN 1" CONDUIT FROM PANEL "DPS"

A ELECTRICAL SITE PLAN - IMPROVEMENT
SCALE: 1"=40'-0"



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