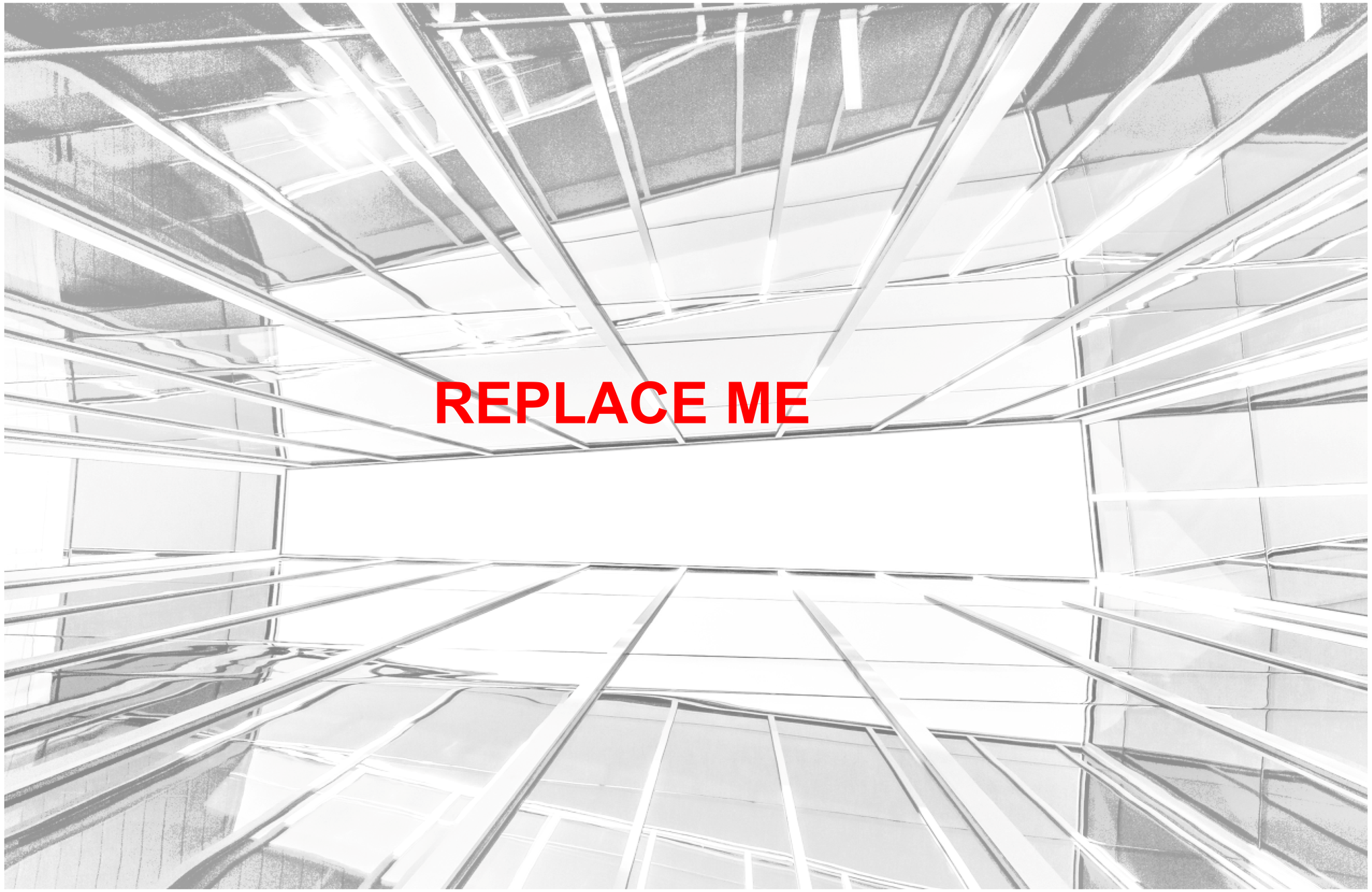
THE LINE SHOWN ABOVE IS 1" LONG WHEN PLOTTED AT FULL SIZE. IF NOT, ADJUST SHEETS ORIGINAL PAGE SIZE

LODI UNIFIED SCHOOL DISTRICT

SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1

LODI, CA



AGENCY APPROVAL:

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HMC Architects DESIGN FOR GOOD
3431-010-000
2101 CAPITOL AVENUE, SUITE 100, SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

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PROJECT TEAM

OWNER
LODI UNIFIED SCHOOL DISTRICT
CONSULTANT 1 ADDRESS CONSULTANT 1 ADDRESS
CONSULTANT 1 PHONE

CIVIL
MCR ENGINEERING
1242 DUPONT COURT MANTECA, CA 95336
209.239.6229

LANDSCAPE
MTW GROUP
2707 K STREET, SUITE 201 SACRAMENTO, CA 95816
916.369.3990

ELECTRICAL
OPTIMIZED ENERGY & FACILITES CONSULTING, INC
5734 LONETREE BLVD ROCKLIN, CA 95765
916.626.5518

FACILITY:
SAMUEL M. GANTNER ELEMENTARY SCHOOL
LODI, CA

PROJECT:
SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1

SHEET NAME:
COVER SHEET

DESIGN DEVELOPMENT

DATE: **2025-09-26**
CLIENT PROJ NO:

SHEET:

G0.10.1

Autodesk Docs://3431010000 LODI USD SAMUEL M. GANTNER ES R24/3431010000-A-LUSD-GANTNER ES-SITE.rvt
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THE LINE SHOWN ABOVE IS 3" LONG ON ORIGINAL PAGE SIZE SHEETS (ORIGINAL PAGE SIZE)

GENERAL NOTES

1. CONSTRUCTION DOCUMENTS DESCRIBE THE PRODUCTS, SYSTEMS, QUANTITIES, CONFIGURATION, AND PERFORMANCE SPECIFICATIONS THAT DELIVER THE OVERALL DESIGN INTENT OF THE PROJECT.
2. THE CONSTRUCTION DOCUMENT DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY, AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY BOTH.
3. PERFORMANCE BY THE CONSTRUCTION TEAM SHALL BE CONSISTENT WITH THE CONSTRUCTION DRAWINGS AND SPECIFICATIONS AS NECESSARY TO DELIVER THE INDICATED RESULTS OF THE DESIGN INTENT.
4. VERIFY ALL DIMENSIONS, LOCATIONS OF EXISTING UTILITIES, AND CONDITIONS ON THE JOB SITE PRIOR TO THE START OF WORK OR PORTIONS OF THE WORK. NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN THE ACTUAL FIELD CONDITIONS AND THE CONSTRUCTION DOCUMENTS. EXISTING CONDITIONS ARE INDICATED AS A RESULT OF FIELD OBSERVATIONS, INFORMATION SHOWN ON AVAILABLE DOCUMENTS AND FIELD CONDITIONS AT THE TIME OF PREPARATION.
5. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH ALL GOVERNING CODES, ORDINANCES, REGULATIONS AND LAWS.
6. THE DESIGN ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS AND SCAFFOLDING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
7. WHERE ANY CONFLICT OCCURS BETWEEN THE REQUIREMENTS OF LAWS, CODES, ORDINANCES, RULES AND REGULATIONS, THE MOST STRINGENT SHALL GOVERN.
8. IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS OR DETAILS ON THE DRAWINGS.
9. DETAILS MARKED 'TYPICAL' SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY NOTED OTHERWISE.
10. ENACT ALL MEASURES TO PROTECT AND SAFEGUARD ALL EXISTING ELEMENTS TO REMAIN FROM BEING DAMAGED. REPLACE OR REPAIR EXISTING ELEMENTS DAMAGED BY THE EXECUTION OF THIS CONTRACT TO EQUAL OR BETTER CONDITION.
11. PRIOR TO THE START OF WORK THE CONTRACTOR SHALL COORDINATE BETWEEN THE REQUIREMENTS OF ALL DISCIPLINES HEREIN AND BETWEEN THE REQUIREMENTS OF ALL DRAWINGS AND SPECIFICATIONS IN ORDER THAT ALL ITEMS SATISFACTORILY RELATE TO ONE ANOTHER. NOTIFY ARCHITECT IMMEDIATELY REGARDING ANY ITEMS THAT CANNOT BE COORDINATED.
12. CONTRACTOR SHALL EXCERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID EXISTING DUCTS, PIPING, CONDUIT, ETC. AND TO PREVENT HAZARD TO PERSONNEL AND/OR TO EXISTING UNDERGROUND UTILITIES OR STRUCTURES. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.
13. CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH THE EXISTING OR NEW STRUCTURAL ELEMENTS SHALL NOT TO BE STARTED UNTIL THE DETAILS HAVE BEEN REVIEWED AND APPROVED BY THE ARCHITECT, AND STRUCTURAL ENGINEER OF RECORD.
14. ALL WORK SHALL CONFORM TO 2022 EDITION TITLE 24, CALIFORNIA CODE OF REGULATION (CCR)
15. THE LIMIT OF WORK LINE SHOWS THESE DRAWINGS IS AN APPROXIMATE LIMIT OF WORK ONLY. REFER TO CONSULTANT DRAWINGS FOR ADDITIONAL WORK, INCLUDING BUT NOT LIMITED TO INSTALLATION OF CONDUIT, MANHOLES, PULLBOXES, ETC WHICH ARE TO BE PART OF THIS WORK, ALTHOUGH OCCURING OUTSIDE OF SHOWN LIMIT OF WORK LINES.
16. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
17. SAFETY DURING CONSTRUCTION SHALL COMPLY WITH CFC CHAPTER 33.
18. CONTRACTOR IS TO REVIEW AND COMPLY WITH ALL REQUIREMENTS AND MITIGATION MEASURES SET FORTH IN BOTH THE ENVIRONMENTAL IMPACT REPORT (ADDENDUM TO THE ENVIRONMENTAL IMPACT REPORT (SCH NO. 2002071120 INCLUDING ATTACHED BIOLOGICAL RESOURCES TECHNICAL REPORT
19. NO DUMPING OR PLACING OF ANY DIRT OR DEBRIS SHALL BE ALLOWED OUTSIDE OF THE CONTRACTORS LIMIT OF WORK AREA.
20. FABRICATION AND INSTALLATION OF DEFERRED SUBMITTAL ITEMS SHALL NOT BE STARTED UNTIL CONTRACTOR'S DRAWINGS, SPECIFICATIONS, AND ENGINEERING CALCULATIONS FOR THE ACTUAL SYSTEMS TO BE INSTALLED HAVE BEEN ACCEPTED AND SIGNED BY THE ARCHITECT OR STRUCTURAL ENGINEER AND APPROVED BY THE DSA. LIST DEFERRED SUBMITTAL ITEMS FOR THIS PROJECT.
21. 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.
22. 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.
23. 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.
24. 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)

ACCEPTANCE TESTING REQUIREMENTS

THE CALIFORNIA ENERGY CODE SECTION 10-103 REQUIRES ACCEPTANCE TESTING ON ALL NEWLY INSTALLED LIGHTING CONTROLS, MECHANICAL SYSTEMS, ENVELOPES, AND PROCESS EQUIPMENT AFTER INSTALLATION AND BEFORE PROJECT COMPLETION. AN ACCEPTANCE TEST IS A FUNCTIONAL PERFORMANCE TEST TO HELP ENSURE THAT NEWLY INSTALLED EQUIPMENT IS OPERATING AND IN COMPLIANCE WITH ENERGY CODE.

LIGHTING CONTROLS ACCEPTANCE TESTS MUST BE PERFORMED BY A CERTIFIED LIGHTING CONTROLS ACCEPTANCE TEST TECHNICIAN (ATT).

MECHANICAL SYSTEM ACCEPTANCE TEST MUST BE PERFORMED BY A CERTIFIED MECHANICAL ATT FOR PROJECTS SUBMITTED ON OR AFTER OCTOBER 1, 2021.

A LISTING OF CERTIFIED ATTs CAN BE FOUND AT: HTTPS://WWW ENERGY.CA.GOV/PROGRAMS-AND-TOPICS/PROGRAMS/ACCEPTANCE-TEST-TECHNICIAN- CERTIFICATION-PROVIDER-PROGAM/ACCEPTANCE

THE ACCEPTANCE TESTING PROCEDURES MUST BE REPEATED. AND DEFICIENCIES MUST BE CORRECTED BY THE BUILDER OR INSTALLING CONTRACTOR UNTIL THE CONSTUCTION/ INSTALLATION OF THE SPECIFIED SYSTEMS CONFORM AND PASS THE REQUIRED ACCEPTANCE CRITERIA.

PROJECT INSPECTORS WILL BE COLLECTING THE FORMS TO CONFIRM THAT THE REQUIRED ACCEPTANCE TESTS HAVE BEEN COMPLETED.

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. (2021 INTERNATIONAL BUILDING CODE VOLUMES 1 & 2 AND 2022 CALIFORNIA AMENDMENTS)	
2022	CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. (2020 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS)	
2022	CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R. (2021 UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS)	
2022	CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R. (2021 UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)	
2022	CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.	
2022	CALIFORNIA HISTORICAL BUILDING CODE (CHBC), PART 8, TITLE 24 C.C.R.	
2022	CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R. (2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)	
2022	CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 C.C.R. (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.	
TITLE 19	C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.	
2019	ASME A17.1/B44-19 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	2019 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	2005 (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 TELESCOPING SEATING AND GRANDSTANDS	2017 ED.

FOR A COMPLETE LIST OF APPLICABLE NFPA STANDARDS REFER TO 2022 CBC (SFM) CHAPTER 35 AND CALIFORNIA FIRE CODE CHAPTER 80.
SEE CALIFORNIA BUILDING CODE, CHAPTER 35 FOR STATE OF CALIFORNIA AMENDMENTS TO NFPA STANDARDS.

STATEMENT OF GENERAL CONFORMANCE

( ) THE DRAWINGS 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:

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

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

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 — DATE
ARCHITECT OR ENGINEER DESIGNATED TO BE IN GENERAL RESPONSIBLE CHARGE

PRINT NAME

X-00000 — 01-01-22
LICENSE NUMBER — EXPIRATION DATE

PROJECT DESCRIPTION

GENERAL DESCRIPTION OF WORK

CONSTRUCTION OF A NEW ELEMENTARY SCHOOL CAMPUS.

INC 1 - SITE FEATURES INCLUDING PAVING, HARDSCAPE, LANDSCAPE AND IRRIGATION; FENCING, PLAYGROUNDS, PARKING AND SITE LIGHTING

INC 2 - CONSTRUCTION OF NEW CAMPUS BUILDINGS

PROJECT DATA

PROJECT ADDRESS

WESTGATE DRIVE & VINE STREET
LODI, CA

PROJECT INFORMATION

BUILDING NAME:

TYPE OF CONSTRUCTION:

OCCUPANCY:

ZONE:

AUTOMATIC FIRE SPRINKLER SYSTEM: FULLY SPRINKLERED

NUMBER OF STORIES:

BUILDING AREA:

DEFERRED APPROVAL

1. NONE

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G0.11.1 PROJECT DATA SHEET
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C1.0.1 GENERAL NOTES & SPECIFICATIONS
C2.0.1 CONSTRUCTION DETAILS
C3.0.1 TOPOGRAPHIC SURVERY & DEMOLITION PLAN
C4.0.1 DIMENSIONING & PAVING PLAN SE
C4.1.1 DIMENSIONING & PAVING PLAN SW
C4.2.1 DIMENSIONING & PAVING PLAN NW
C4.3.1 DIMENSIONING & PAVING PLAN NE
C5.0.1 GRADING PLAN SE
C5.1.1 GRADING PLAN SW
C5.2.1 GRADING PLAN NW
C5.3.1 GRADING PLAN NE
C6.0.1 STORM DRAIN PLAN
C7.0.1 SEWER PLAN
C8.0.1 WATER & COMPOSITE UTILITY PLAN
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L0.5.1 LANDSCAPE SITE INSTALLATION DETAILS
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L3.4.1 SPRINKLER IRRIGATION PLAN
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E1.41.1 ELECTRICAL SITE PLAN PHOTOMETRIC
4
Grand total: 60

AGENCY APPROVAL:

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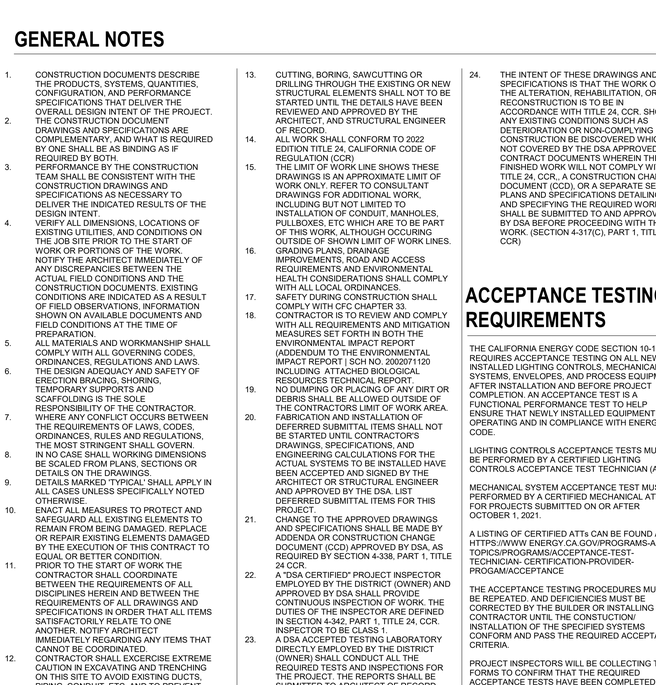
ISSUE

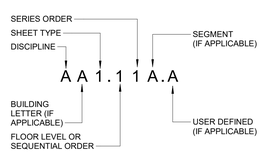
Δ	DESCRIPTION	DATE

SYMBOL LEGEND



SHEET NUMBER SYSTEM

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



ABBREVIATIONS

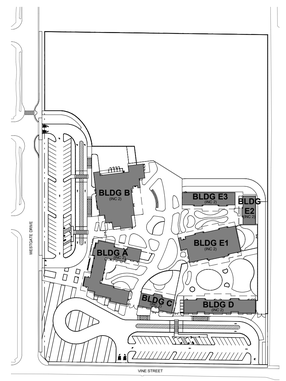
(E)	EXISTING
AB	ANCHOR BOLT
AC PAVING	ASPHALTIC CONCRETE PAVING
ACC	ACCESS/ACCESSIBLE
ACP	ACOUSTICAL CEILING PANEL
ACT	ACOUSTICAL CEILING TILE
ADJ	ADJACENT/ADJUSTABLE
AFF	ABOVE FINISH FLOOR
AGG	AGGREGATE
AHU	AIR HANDLING UNIT
ARCH	ARCHITECTURAL
ATT	ATTENUATION
AUTO	AUTOMATIC
BD	BOARD
BLCG	BLOCKING
BLDG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

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

STATE MAP

VICINITY MAP

OVERALL SITE PLAN



TN

FACILITY:
SAMUEL M. GANTNER ELEMENTARY SCHOOL
LODI, CA

PROJECT:
SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1

SHEET NAME:
PROJECT DATA SHEET

DESIGN DEVELOPMENT

DATE: xxxx.xx.xx
CLIENT PROJ NO:

SHEET:

G0.11.1

Autodesk Docs://3431010000 LODI USD SAMUEL M. GANTNER ES R24/3431010000-A-LU

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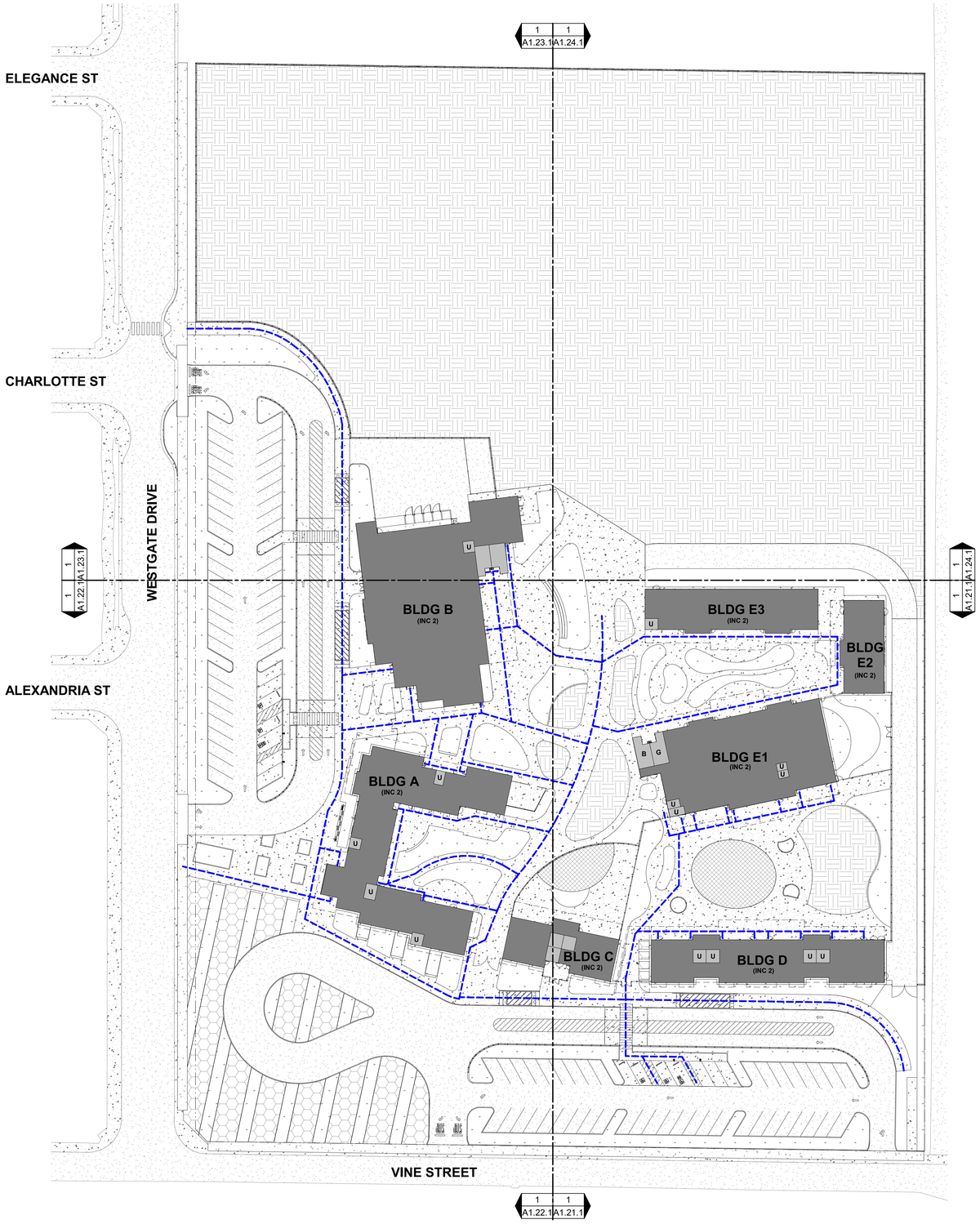

CODE SITE PLAN 1
1" = 40'-0"

LEGEND

- PROPERTY LINE
- IMAGINARY LINE
- ACCESIBLE PATH OF TRAVEL
- PATH OF TRAVEL TO PUBLIC WAY
- NEW BUILDING
- ACCESSIBLE RESTROOM
- U UNISEX RESTROOM
- G GIRLS RESTROOM
- B BOYS RESTROOM
- S STAFF RESTROOM

PATH OF TRAVEL STATEMENT

AGENCY APPROVAL:

REVIEWING AGENCIES STAMP HERE

LODI USD

HMC Architects
DESIGN FOR GOOD
3431-010-000
2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

NOT FOR CONSTRUCTION

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

FACILITY:
SAMUEL M. GANTNER ELEMENTARY SCHOOL
LODI, CA

PROJECT:
SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1

SHEET NAME:
CODE SITE PLAN

DESIGN DEVELOPMENT

DATE: **2025-09-26**
CLIENT PROJ NO:

SHEET:

G1.11.1

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DSA 810

FIRE & LIFE SAFETY SITE CONDITIONS SUBMITTAL

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

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

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

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

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

PROJECT INFORMATION	
School District/Owner:	Lodi Unified School District
Project Name/School:	Samuel M. Gantner Elementary School
Project Address:	Westgate Dr & Vine Street

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

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

School District Acceptance of Acceptable Design Alternates

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

Accepted by: _____ Title: _____

Signature: _____ Date: _____

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

LFA Reviewer's Signature: _____ Date: _____

FIRE FLOW TEST

LOCAL FIRE AUTHORITY SITE PLAN 1 1" = 40'-0"

LEGEND

- PROPERTY LINE
- MATCHLINE
- PAINTED FIRE LANE NO PARKING
- FIRE HYDRANT
- NEW BUILDING PHASE 1
- NEW BUILDING PHASE 2
- PHASE 1 FIRE LANE
- PHASE 2 FIRE LANE
- CONCRETE
- ASPHALT
- GRASS, SEE LANDSCAPE
- ARTIFICIAL TURF, SEE LANDSCAPE
- PLANTING, SEE LANDSCAPE
- GRAVEL, SEE LANDSCAPE
- UPDATE — DECOMPOSED GRAVEL, SEE LANDSCAPE
- CHAINLINK FENCE
- DECORATE METAL FENCING

AGENCY APPROVAL:

REVIEWING AGENCIES STAMP HERE

LODI USD

HMC Architects
DESIGN FOR GOOD
3431-010-000
2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

NOT FOR CONSTRUCTION

ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

FACILITY:
SAMUEL M. GANTNER ELEMENTARY SCHOOL
LODI, CA

PROJECT:
SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1

SHEET NAME:
LOCAL FIRE AUTHORITY SITE ACCESS PLAN

DESIGN DEVELOPMENT

DATE: **xxxx.xx.xx** CLIENT PROJ NO:

SHEET:

G1.51.1

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PLEASE RECYCLE

IF MEASUREMENTS DO NOT MATCH AS SHOWN THE LINE SHOWN ABOVE IS EXACTLY 1" LONG ON ORIGINAL PLOT SHEETS ORIGINAL PAGE SIZE

GENERAL NOTES:

1. THE CONTRACTOR SHALL EXERCISE DUE CAUTION AND SHALL CAREFULLY PRESERVE BENCH MARKS, REFERENCE POINTS AND ALL SURVEY STAKES, AND SHALL BEAR ALL EXPENSE FOR REPLACEMENT AND/OR ERRORS CAUSED BY THEIR UNNECESSARY LOSS OR DISTURBANCE. ALL CENTERLINE AND/OR SURVEY MONUMENTS SHALL BE PRESERVED OR RESET AT THE END OF CONSTRUCTION.
2. UNLESS OTHERWISE STATED, ALL STATIONS INDICATED ON THE IMPROVEMENT PLANS ARE REFERENCED TO THE CENTERLINE OF THE STREET. ALL STATIONS OFF CENTER ARE PERPENDICULAR TO OR RADIALLY OPPOSITE CENTERLINE STATIONS, UNLESS OTHERWISE NOTED.
3. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT WRITTEN AUTHORIZATION FROM THE CITY ENGINEER.
4. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAG MAN OTHER DEVICES NECESSARY FOR PUBLIC SAFETY IN ACCORDANCE WITH THE CURRENT OR ISSUE OF "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION.
5. THE OFFICE OF THE CITY ENGINEER SHALL BE NOTIFIED AT LEAST 24 HOURS IN ADVANCE OF ANY WORK.
6. LODI ELECTRIC, P. G. & E., TELEPHONE AND CABLE TV UNDERGROUND WORK SHALL BE BE COMPLETED PRIOR TO CONSTRUCTION OF THE CURB, GUTTER, SIDEWALK AND PAVING.
7. THE CITY OF LODI AND ASSOCIATED UTILITY COMPANY AND RESIDENCES TO BE AFFECTED SHALL BE NOTIFIED IMMEDIATELY UPON ANY UTILITY SERVICE DISRUPTION OTHER THAN SPECIFIED ON THESE IMPROVEMENT PLANS AND A 24 HOUR NOTICE SHALL BE GIVEN FOR ANY PLANNED DISRUPTION.
8. THE CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT FROM THE CITY OF DEPARTMENT OF PUBLIC WORKS OR ANY OTHER APPLICABLE AGENCIES PRIOR TO LODI, COMMENCEMENT OF WORK WITHIN EXISTING RIGHT-OF-WAY OR EASEMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND LICENSES REQUIRED FOR THE CONSTRUCTION AND COMPLETION OF THE PROJECT.
9. STREET SIGNS, TRAFFIC CONTROL SIGNS, AND PAVEMENT MARKINGS SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR AT LOCATIONS ESTABLISHED BY THE ENGINEER.
10. ASPHALT CONCRETE SHALL BE PLACED ONLY WHEN THE ATMOSPHERIC TEMPERATURE IS ABOVE 50°F.
11. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF THE REMOVAL OR RELOCATION OF ALL EXISTING UTILITIES WITH RESPECTIVE UTILITY COMPANIES.
12. RURAL DRIVEWAY IMPACTED DURING CONSTRUCTION SHALL BE RESTORED TO THEIR ORIGINAL STATE.
13. DRAWING NUMBERS SHOWN ON THE PLANS REFER TO DRAWINGS CONTAINED IN THE CITY OF LODI STANDARD SPECIFICATIONS, THUS: (I.E. STD PLAN 121).
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING IMPROVEMENTS FROM DAMAGE. COST OF REPLACING EXISTING IMPROVEMENTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEMS REQUIRING REMOVAL AND REPLACEMENT OF EXISTING IMPROVEMENTS.
15. WHENEVER PAVEMENT IS BROKEN OR CUT IN THE INSTALLATION OF THE WORK COVERED BY THESE SPECIFICATIONS, THE PAVEMENT SHALL BE REPLACED, AFTER PROPER BACKFILLING, WITH PAVEMENT MATERIALS EQUAL TO OR BETTER THAN THE MATERIALS USED IN THE ORIGINAL PAVING. THE FINISHED PAVEMENT SHALL BE SUBJECT TO THE APPROVAL OF THE CITY ENGINEER, OR CALTRANS, WHERE APPLICABLE.
16. PAYMENT FOR PAVEMENT WILL BE MADE ONLY FOR AREAS SHOWN ON THE PLANS. REPLACEMENT OF PAVEMENT WHICH IS BROKEN OR CUT DURING THE INSTALLATION OF THE WORK COVERED BY THESE SPECIFICATIONS, AND WHICH LIES OUTSIDE OF SAID AREAS, SHALL BE INDICATED IN THE CONTRACTOR'S UNIT PRICE FOR PAVEMENT, AND NO ADDITIONAL PAYMENT SHALL BE MADE FOR SUCH WORK.
17. WE CALL YOUR ATTENTION TO TITLE 8 CALIFORNIA ADMINISTRATION CODE SECTION 1540 (A) (1) OF THE CONSTRUCTION SAFETY ORDERS ISSUED BY THE OCCUPATIONAL SAFETY AND HEALTH STANDARDS BOARD PURSUANT TO THE CALIFORNIA OCCUPATIONS SAFETY AND HEALTH ACT OF 1973 AS AMENDED WHICH STATES: (1) PRIOR TO OPENING AN EXCAVATION EFFORT SHALL BE MADE TO DETERMINE WHETHER UNDERGROUND INSTALLATIONS; I.E. SEWER, WATER, FUEL, ELECTRICAL LINES, ETC., WILL BE ENCOUNTERED AND IF SO, WHERE SUCH UNDERGROUND INSTALLATIONS ARE LOCATED. WHEN THE EXCAVATION APPROACHES THE APPROXIMATE LOCATION OF SUCH INSTALLATION, THE EXACT LOCATION SHALL BE DETERMINED BY CAREFUL PROBING OR HAND DIGGING; AND, WHEN IT IS UNCOVERED, ADEQUATE PROTECTION SHALL BE PROVIDED FOR THE EXISTING INSTALLATION. ALL KNOWN OWNERS OF UNDERGROUND FACILITIES IN THE AREA CONCERNED SHALL BE ADVISED OF PROPOSED WORK AT LEAST 48 HOURS PRIOR TO THE START OF ACTUAL EXCAVATION.
18. ALL TRENCHES ON MAJOR AND COLLECTOR STREETS AND CROSS TRENCHES ON ALL STREETS SHALL BE PAVED WITH TEMPORARY PAVING THE SAME DAY THE PAVEMENT CUT IS MADE.
19. APPROPRIATE DUST CONTROL SHALL BE PROVIDED, AT THE CONTRACTOR'S EXPENSE TO MINIMIZE ANY DUST NUISANCE AND SHALL BE IN ACCORDANCE WITH SECTION 10 OF CALTRANS STANDARD SPECIFICATIONS AND THE REQUIREMENTS OF THE CITY OF LODI.
20. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER, PRIOR TO FINAL ACCEPTANCE, AS-BUILT DRAWINGS OF ALL IMPROVEMENTS REPRESENTED BY THE PROJECT PLANS AND SPECIFICATIONS.
21. AFTER CONSTRUCTION OF ALL IMPROVEMENTS, THE ENGINEER SHALL SUBMIT ONE SET OF REPRODUCIBLE PLANS. FINAL INVERT ELEVATIONS FOR SEWER AND STORM DRAIN LINES THAT ARE TO BE EXTENDED FOR FUTURE CONSTRUCTION SHALL ALSO BE SHOWN ON THE "AS-BUILT" PLANS ALL AS PROVIDED TO THE ENGINEER BY THE CONTRACTOR.
22. THE CONTRACTOR SHALL NOTIFY M.C.R. ENGINEERING AT LEAST 48 HOURS PRIOR TO BACKFILLING OF ANY PIPE WHICH STUBS TO A FUTURE PHASE OF CONSTRUCTION FOR INVERT VERIFICATION. TOLERANCE SHALL BE IN ACCORDANCE WITH THE CITY OF LODI STANDARD SPECIFICATIONS.
23. REGULATING DISCHARGES OF STORM WATER ASSOCIATED WITH CONSTRUCTION ACTIVITY FROM SOIL DISTURBANCES OF ONE (1) ACRE OR MORE; A NOTICE OF INTENT (NOI) TO COMPLY WITH THE TERMS OF THE GENERAL PERMIT TO DISCHARGE STORM WATER ASSOCIATED WITH CONSTRUCTION ACTIVITY MUST BE FILED ON THE STATE'S WEBSITE HTTPS://SMARTS.WATERBOARDS.CA.GOV/SMARTS/FACES/SWSMARTSLOGIN.JSP , AND APPROPRIATE PERMIT REGISTRATION DOCUMENTS PAID, PRIOR TO COMMENCEMENT OF CONSTRUCTION A WDID # SHALL BE ISSUED BY THE STATE WATERBOARD. IN ADDITION, AT THE CONCLUSION OF THE PROJECT A NOTICE OF TERMINATION MUST ALSO BE FILED. IF MAILING, SEND TO ADDRESS BELOW:
    STATE WATER RESOURCES CONTROL BOARD
    P.O. BOX 100 SACRAMENTO, CA 95812-0100
    ATTN: STORM WATER PERMITTING SECTION
    IF YOU HAVE ANY QUESTIONS CALL WATER QUALITY CONTROL ENGINEER, CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD, CENTRAL VALLEY REGION AT (916) 464-3291
24. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE STATE WATER RESOURCES CONTROL BOARD (SWRCB) ORDER AS MODIFIED BY NO. 2010-004-DWQ. THE CONTRACTOR SHALL IMPLEMENT AND MONITOR A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IN ACCORDANCE WITH THE SWRCB REGULATIONS.
25. BENCHMARK: CITY OF LODI BENCHMARK NUMBER 699
    ELEVATION: 56.50 (NAVD 88)
    DESCRIPTION: BRASS DISK 3.2' S/ CL OF CURB RETURN, TOP OF CURB.
    LOCATION: SW CORNER OF TURNER ROAD AND N SACRAMENTO STREET.
26. DEVELOPER SHALL, AT ITS OWN EXPENSE, HIRE A GEOTECHNICAL ENGINEER TO OVERSEE AND TEST THE COMPACTION EFFORTS OF THE JOINT TRENCH FOR THE PROJECT. A FINAL COMPACTION REPORT SHALL BE STAMPED AND SIGNED BY THE GEOTECHNICAL ENGINEER AND SUBMITTED TO THE CITY PRIOR TO THE FINAL INSPECTION.
27. ONE DENSITY AND WATER CONTENT TEST SHALL BE PERFORMED FOR EVERY 6- TO12-INCH THICK COMPACTED LIFT FOR EVERY 50 TO 100 LINEAR FEET OF UTILITY TRENCH BACKFILL. IF COMPACTION TESTS WITH A NUCLEAR GAUGE ARE NOT ABLE TO BE PERFORMED DUE TO THE PRESENCE OF SHALLOW UTILITY LINES OR BACKFILL, THEN FULL-TIME OBSERVATION OF THE JOINT UTILITY TRENCH BACKFILL OPERATION SHALL BE PERFORMED BY THE TESTING AGENCY. COMPACTION OF THE UTILITY TRENCH BACKFILL SHALL BE BY MECHANICAL MEANS SUCH AS BY A WHACKER, VIBRAPLATE, POGO STICK, OR SIMILAR TYPE OF EQUIPMENT. BACKFILL SHALL BE PLACED IN LOOSE LIFTS NO THICKER THAN 8 INCHES. EACH LIFT OF COMPACTED BACKFILL SHALL BE TESTED, EVALUATED, AND REWORKED, AS NECESSARY, UNTIL APPROVED BY THE TESTING AGENCY PRIOR TO PLACEMENT OF ADDITIONAL LIFTS. SHOULD THE RESULTS OF THE IN-PLACE DENSITY TESTS INDICATE THE SPECIFIED COMPACTION REQUIREMENTS HAVE NOT BEEN MET, THE AREA REPRESENTED BY THE TEST SHALL BE REWORKED AND RETESTED AS REQUIRED UNTIL THE SPECIFIED RELATIVE COMPACTION REQUIREMENTS ARE ACHIEVED.

GRADING NOTES:

1. EARTHWORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF LODI CONSTRUCTION SPECIFICATIONS. ALL FILL AREAS SHALL BE TESTED AS REQUIRED BY THE CITY OF LODI AND SHALL BE PAID FOR BY THE CONTRACTOR.
2. THE CITY SHALL NOT BE RESPONSIBLE FOR COST OF INITIAL TEST FOR MOISTURE DENSITY CURVE. IF THE FIRST TEST FAILS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COST OF ALL SUBSEQUENT CURVES AND TESTS.
3. THE CONTRACTOR SHALL REVIEW SITE PRIOR TO BIDDING. ALL VEGETATION AND DELETERIOUS MATERIALS, INCLUDING ROOTS (SEE SOILS REPORT) SHALL BE REMOVED FROM THE SITE AT THE EXPENSE OF THE CONTRACTOR AND SHALL BE INCLUDED IN THE LUMP SUM CLEARING COST.
4. THE CONTRACTOR SHALL PRESERVE ALL STAKES AND POINTS SET FOR LINES, GRADES OR MEASUREMENT OF THE WORK IN THEIR PROPER PLACES UNTIL AUTHORIZED TO REMOVE THEM BY THE ENGINEER. ALL EXPENSES INCURRED IN REPLACING STAKES THAT HAVE BEEN REMOVED WITHOUT PROPER AUTHORITY SHALL BE PAID FOR BY THE GENERAL CONTRACTOR.
5. ALL EXISTING WELLS AND SEPTIC TANKS SHALL BE REMOVED AND/OR ABANDONED PER THE REQUIREMENTS OF THE SAN JOAQUIN LOCAL HEALTH DISTRICT AND THE CITY OF LODI. THIS WORK SHALL BE INCLUDED IN THE LUMP SUM CLEARING COST.
6. PERFORM SUBGRADE COMPACTION PRIOR TO FILL PLACEMENT, FOLLOWING CUTTING OPERATIONS, AND IN AREAS LEFT AT GRADE AS FOLLOWS:
    A.) SCARIFY TO A DEPTH OF AT LEAST 12 INCHES.
    B.) MOISTURE CONDITION SOIL TO AT LEAST 2 PERCENTAGE POINTS ABOVE THE OPTIMUM MOISTURE CONTENT
    C.) COMPACT THE SUBGRADE TO AT LEAST 90 PERCENT RELATIVE COMPACTION. COMPACT THE UPPER 12 INCHES OF FINISH PAVEMENT SUBGRADE TO AT LEAST 95 PERCENT RELATIVE COMPACTION PRIOR TO AGGREGATE BASE PLACEMENT.

STORM DRAIN NOTES:

1. ALL STORM DRAIN CONSTRUCTION, MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF LODI PUBLIC IMPROVEMENT DESIGN STANDARDS, CONSTRUCTION SPECIFICATIONS AND STANDARD PLANS.
    A.) PVC -ASTM D3034 SDR 35
    B.) REINFORCED CONCRETE PIPE - ASTM C76
2. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAG MEN OR OTHER DEVICES NECESSARY FOR PUBLIC SAFETY.
3. THE CONTRACTOR SHALL PROVIDE ALL SHORING, BRACING, SLOPING OR OTHER PROVISIONS NECESSARY TO PROTECT WORKMAN FOR ALL AREAS TO BE EXCAVATED TO A DEPTH OF 5 FEET OR MORE. SAID PROTECTION TO BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF LODI DEPARTMENT OF PUBLIC WORKS, AND STATE REGULATIONS.
4. ALL MANHOLE RIMS TO BE ADJUSTED TO FINISH GRADE AFTER STREET PAVING, UNLESS OTHERWISE NOTED. COST FOR RAISING FACILITIES TO BE INCLUDED IN UNIT PRICES FOR MANHOLES.
5. THE CONTRACTOR SHALL EXPOSE ALL EXISTING STORM DRAIN PIPES, WHERE A CONNECTION IS TO BE MADE, AND NOTIFY THE ENGINEER IF THERE IS A DISCREPANCY BETWEEN THE SIGNED PLANS AND THE EXISTING FIELD CONDITION PRIOR TO THE START OF CONSTRUCTION.
6. CONTRACTOR TO BE RESPONSIBLE FOR ALL TESTING OF STORM DRAIN FACILITIES IN ACCORDANCE WITH THE CITY OF LODI PUBLIC IMPROVEMENT DESIGN STANDARDS, CONSTRUCTION SPECIFICATIONS AND STANDARD PLANS.
7. ALL STORM DRAIN LINES SHALL BE CLEANED OF ALL SAND AND DEBRIS PRIOR TO ACCEPTANCE BY THE CITY OF LODI.
8. ALL STORM DRAIN INLETS SHALL BE LABELED "NO DUMPING-DRAINS TO RIVER" USING THERMOPLASTIC STENCILS AS PER STD PLAN 307.

SANITARY SEWER NOTES:

1. ALL SANITARY SEWER CONSTRUCTION, MATERIALS, AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF LODI PUBLIC IMPROVEMENT DESIGN STANDARDS, CONSTRUCTION SPECIFICATIONS AND STANDARD PLANS.
    A.) PVC SEWER PIPE & FITTINGS - ASTM D3034 SDR35, F-679, PS 46, DUCTILE IRON PIPE - ASTM A746
    B.) PVC LATERALS: ASTM D3034 SDR 35, DUCTILE IRON PIPE - ASTM D1869
2. THE CONTRACTOR SHALL PROVIDE ALL SHORING, BRACING, SLOPING OR OTHER PROVISIONS NECESSARY TO PROTECT WORKMEN FOR ALL AREAS TO BE EXCAVATED TO A DEPTH OF 5' OR MORE. SAID PROTECTION TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF LODI DEPARTMENT OF PUBLIC WORKS, AND STATE REGULATIONS.
3. THE CONTRACTOR SHALL EXPOSE ALL EXISTING SANITARY SEWER PIPES WHERE CONNECTION IS TO BE MADE, SO THAT THE ENGINEER CAN VERIFY EXISTING FLOW LINES AND LOCATIONS BEFORE START OF CONSTRUCTION.
4. THE CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAG MEN, OR OTHER DEVICES NECESSARY FOR PUBLIC SAFETY.
5. ALL SANITARY SEWER LATERALS SHALL BE EXTENDED TO 12" MIN - 24" MAX. PAST THE PROPERTY LINE (AS DIMENSIONED ON "LOT UTILITY LAYOUT" DETAIL) AND PLUGGED (SEE STD. PLAN 507).
6. ALL TESTING REQUIRED BY THE CITY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, INCLUDING THE TELEVISING OF ALL SEWER LINES.
7. MANHOLE CASTINGS AND COVERS SHALL BE ADJUSTED TO FINISH GRADES BY THE PAVING CONTRACTOR AFTER STREET IMPROVEMENTS ARE COMPLETED. COST FOR ADJUSTING FACILITIES TO BE INCLUDED IN THE UNIT PRICE FOR MANHOLES AND CLEANOUTS.
8. CONTRACTOR SHALL INSTALL A "TRACE WIRE" ON ALL FORCE MAINS.

WATER NOTES:

1. ALL WATER CONSTRUCTION, MATERIALS, AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF LODI PUBLIC IMPROVEMENT DESIGN STANDARDS, CONSTRUCTION SPECIFICATIONS AND STANDARD PLANS.
    A.) PVC - AWWA C900, DR18 (CLASS 150)
2. THE CONTRACTOR SHALL EXPOSE EXISTING WATER LINES TO VERIFY EXISTING ELEVATION AND LOCATION PRIOR TO START OF CONSTRUCTION.
3. ALL WATER LINES SHALL BE TESTED AND DISINFECTED IN CONFORMANCE WITH THE REQUIREMENTS OF THE CITY OF LODI AND THE AMERICAN WATER WORKS ASSOCIATION (AWWA) STANDARDS, SECTION C-651. WATER LINE TESTING SHALL INCLUDE: HYDROSTATIC PRESSURE TESTING PER CITY OF LODI CONSTRUCTION SPECIFICATIONS AND BACTERIOLOGICAL TEST PER CITY OF LODI CONSTRUCTION SPECIFICATION SECTION AND AWWA C651. AFTER FINAL FLUSHING AND BEFORE THE NEW WATER MAIN IS CONNECTED TO THE DISTRIBUTION SYSTEM, TWO CONSECUTIVE SETS OF ACCEPTABLE SAMPLES, TAKEN 24 HOURS APART, SHALL BE COLLECTED FROM THE NEW MAIN. SAMPLES SHALL BE COLLECTED AT SITES AS DIRECTED BY CITY. (AT LEAST ONE SET OF SAMPLES SHALL BE COLLECTED EVERY 1000 FEET OF THE NEW WATER MAIN, PLUS ONE SET FROM EACH END OF THE LINE AND AT LEAST ONE SET FROM EACH BRANCH). ALL SAMPLES SHALL BE TESTED FOR BACTERIOLOGICAL QUALITY, AND SHALL SHOW THE ABSENCE OF COLOFORM ORGANISMS. A STANDARD HETEROTROPHIC PLATE COUNT MAY BE REQUIRED AT THE OPTION OF THE CITY ENGINEER. SAMPLES SHALL BE TAKEN FROM WATER THAT HAS STOOD IN THE NEW MAIN FOR AT LEAST 24 HOURS AFTER FINAL FLUSHING HAS BEEN COMPLETED. IF THE INITIAL DISINFECTION FAILS TO PRODUCE SATISFACTORY BACTERIOLOGICAL SAMPLES, THE MAIN SHALL BE REFLUSHED AND RESAMPLED DAILY FROM THE SAME POINT(S) UNTIL TWO CONSECUTIVE SAMPLES ARE NEGATIVE FOR COLOFORM ORGANISMS. THE CITY OF LODI SHALL PAY FOR THE INITIAL BACTERIOLOGICAL TESTS. THE CONTRACTOR SHALL PAY FOR ALL TESTING NECESSITATED BY FAILURE OF THE INITIAL TEST(S). IF TRENCH WATER HAS ENTERED THE NEW MAIN DURING CONSTRUCTION OR, IF IN THE OPINION OF THE CITY OF LODI, EXCESSIVE QUANTITIES OF DIRT OR DEBRIS HAVE ENTERED THE NEW MAIN, BACTERIOLOGICAL SAMPLES SHALL BE TAKEN AT INTERVALS OF APPROXIMATELY 200 FEET AND SHALL BE IDENTIFIED BY LOCATION. THE CONTRACTOR SHALL INSTALL ADDITIONAL WATER SERVICE TAPS AND SAMPLING STATIONS AS REQUIRED. THE CONTRACTOR SHALL ALSO REMOVE SAMPLING STATIONS AND SERVICES UPON SATISFACTORY COMPLETION OF TESTING. THE CONTRACTOR SHALL PAY FOR TESTING OF THE CONTAMINATED AREAS. CONTRACT PRICE SHALL INCLUDE FULL COMPENSATION FOR FURNISHING ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, AND INCIDENTALS, AND FOR DOING ALL OF THE WORK INVOLVED IN TESTING AND DISINFECT ION OF THE WATER MAINS.
4. CONTRACTOR SHALL PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FLAG MEN, OR OTHER DEVICES NECESSARY FOR PUBLIC SAFETY.
5. WATER LINES SHALL BE A MINIMUM OF 10 FEET OUTSIDE OF PIPE TO OUTSIDE OF PIPE FROM SEWER MAINS. CROSSINGS SHALL MEET STATE HEALTH STANDARDS.
6. ALL VALVE BOXES TO BE ADJUSTED TO FINISH GRADE AFTER STREET PAVING. COST FOR RAISING FACILITIES TO BE INCLUDED IN UNIT PRICES FOR VALVES.
7. THE CONTRACTOR SHALL PROVIDE ALL SHORING, BRACING, SLOPING OR OTHER PROVISIONS NECESSARY TO PROTECT WORKMEN FOR ALL AREAS TO BE EXCAVATED TO A DEPTH OF 5' OR MORE. SAID PROTECTION TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF LODI DEPARTMENT OF PUBLIC WORKS, AND STATE REGULATIONS.
8. ALL CONNECTIONS TO EXISTING CITY FACILITIES SHALL BE MADE IN THE PRESENCE OF THE CITY ENGINEER, OR HIS APPOINTED REPRESENTATIVE.
9. REQUESTS FOR CITY VALVE OPERATIONS SHALL BE MADE PER THE CITY OF LODI CONSTRUCTION SPECIFICATIONS.
10. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPAIRING ANY DAMAGE TO THE SYSTEM UNTIL ACCEPTANCE BY THE CITY COUNCIL.

POLLUTION AND DUST CONTROL:

PRIOR TO ISSUANCE OF BUILDING PERMITS FOR PROJECT, APPLICANT/CONTRACTOR SHALL DEMONSTRATE COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS OF SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT (SJVAPCD) REGULATION VIII & MUST OBTAIN AN APPROVED DUST CONTROL PLAN.

1. THE CONTRACTOR SHALL PROVIDE EVIDENCE OF COMPLIANCE WITH THE SAN JOAQUIN VALLEY AIR POLLUTION DISTRICT (SJVAPCD) REGULATIONS AND REQUIREMENTS (FUGITIVE PM 10, IRS ETC.)
2. THE CONTRACTOR SHALL KEEP THE WORK SITE FREE AND CLEAR OF RUBBISH AND DEBRIS.
3. THE CONTRACTOR SHALL EXERCISE CARE TO PRESERVE AND PROTECT NATURAL HABITAT ADJACENT TO THE PROJECT SITE.
4. THE CONTRACTOR SHALL NOT DISCHARGE SMOKE, DUST, OR ANY OTHER AIR CONTAMINANTS INTO THE ATMOSPHERE IN SUCH A QUANTITY AS WILL VIOLATE THE REGULATIONS OF ANY LEGALLY CONSTITUTED AUTHORITY.
5. THE CONTRACTOR SHALL KEEP ALL AREAS GENERATING DUST WITHIN THE LIMITS OF THE PROJECT WELL WATERED DURING THE TERM OF THIS CONTRACT. THIS INCLUDES BUT IS NOT LIMITED TO ACCESS RAMPS, THE HAUL ROADS, THE EMBANKMENT FILL AREA, AND ANY OTHER AREAS THAT MAY GENERATE DUST AS A RESULT OF CONTRACTOR'S OPERATIONS. THE CONTRACTOR SHALL PROVIDE DUST CONTROL MEASURES DURING EVENINGS, WEEKENDS, AND HOLIDAYS WHEN REQUESTED BY THE DISTRICT AT NO ADDITIONAL COST TO THE DISTRICT.
6. THE CONTRACTOR(S) SHALL KEEP ALL PUBLIC ROADWAYS ADJACENT TO THE PROJECT SITE FREE AND CLEAR OF MUD AND SILT DURING THE TERM OF THIS CONTRACT. THIS INCLUDES MUD CAUSED BY RAIN OR BY THE CONTRACTOR(S) WATERING PROCEDURES FOR DUST CONTROL.
7. THROUGHOUT ALL PHASES OF CONSTRUCTION, INCLUDING SUSPENSION OF WORK, AND UNTIL FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL KEEP THE PREMISES OCCUPIED BY HIM IN A CLEAN AND ORDERLY CONDITION, DISPOSING OF REFUSE AND LITTER IN A MANNER SATISFACTORY TO THE CITY OF LODI.

CITY OF LODI GENERAL NOTES:

1. WORK SHALL CONFORM TO CITY OF LODI PUBLIC IMPROVEMENT DESIGN STANDARDS, CONSTRUCTION SPECIFICATIONS AND STANDARD PLANS UNLESS SPECIFICALLY SHOW OTHERWISE ON THESE PLANS.
2. STANDARD PLANS APPLICABLE TO THIS PROJECT INCLUDE: 123, 132A, 132B, 132E, 135, 301, 304, 309, 310, 314, 402, 405, 408, 409, 413, 501A, 501B, 501C, 506
3. CONSTRUCTION STAKING FOR CURB AND GUTTER, WASTE WATER LINES, STORM DRAINS WATER LINES, STREET CENTERLINES, PAVING EDGES AND OTHER PUBLIC FACILITIES AS DIRECTED BY THE CITY SHALL BE DONE BY A REGISTERED CIVIL ENGINEER OR LICENSED LAND SURVEYOR.
4. CENTERLINE AND PROPERTY LINE DATA SHALL BE OBTAINED FROM THE PLAT AND LEGAL FOR THIS PROJECT.
5. EXISTING UNDERGROUND UTILITIES SHALL BE PROTECTED. UTILITY AGENCIES SHALL BE NOTIFIED AND ALLOWED TO MARK THEIR UTILITIES IN THE FIELD AT LEAST 48 HOURS BEFORE EXCAVATION. COMPLETENESS AND ACCURACY OF EXISTING UTILITY LOCATIONS SHOWN IN THESE PLANS ARE NOT GUARANTEED. CALL "USA" (800) 227-2600.
6. STREET AND LOT ROUGH GRADING SHALL BE DONE BEFORE UNDERGROUND WORK.
7. UNDERGROUND UTILITIES IN THE STREET AND SIDEWALK AREA SHALL BE INSTALLED BEFORE CONSTRUCTION OF CURB, GUTTER OR SIDEWALK. THESE UTILITIES INCLUDE SERVICES, FIRE HYDRANT LATERALS, STREET LIGHT CONDUIT, ELECTRIC, GAS, CABLE TV AND TELEPHONE LINES.
8. EXCAVATION SAFETY REQUIREMENTS INCLUDE SUBMITTING A CAL OSHA PERMIT OR LETTER OF NOTIFICATION TO THE CITY BEFORE COMMENCING EXCAVATIONS OVER FIVE FEET DEEP. REFER TO CITY CONSTRUCTION SPECIFICATION 6-19.4 "EXCAVATION SAFETY" FOR ADDITIONAL REQUIREMENTS.
9. ALL TESTING FOR LEAKAGE OR OVER DEFLECTION SHALL BE WITNESSED BY A CITY INSPECTOR.
10. BALLING AND CLEANING OF STORM DRAIN AND SANITARY SEWERS SHALL BE DONE BEFORE INTERIOR VIDEO INSPECTION. UTILITIES SHALL BE KEPT CLEAN UNTIL CITY ACCEPTANCE.
11. STREET LIGHT SYSTEM SHOWN ON THESE PLANS IS FOR REFERENCE ONLY. THE SYSTEM SHALL BE INSTALLED ACCORDING TO CITY ELECTRIC UTILITY DEPARTMENT PLANS.
12. BENCH MARK MONUMENTS FURNISHED BY THE CITY SHALL BE INSTALLED AT LOCATIONS SHOWN OR AS DIRECTED BY THE CITY ENGINEER.
13. TV LOGS OF EXISTING MAINS WILL BE PREPARED BY THE CITY OF LODI UPON REQUEST OF THE CONTRACTOR PRIOR TO CONSTRUCTION. REPLACEMENT OF ANY UNDERGROUND MAINS DAMAGED DURING CONSTRUCTION OF THE PROJECT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
14. R-VALUE TESTS SHALL BE TAKEN AFTER GRADING TO VERIFY ADEQUACY OF STRUCTURAL SECTION. SECTIONS SHOWN ARE BASED ON THE R-VALUES SHOWN ON THE PLANS AND ARE FOR BIDDING PURPOSES ONLY.
15. A PRE-CONSTRUCTION MEETING SHALL BE SCHEDULED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER, CITY INSPECTOR AND ALL UTILITY AGENCIES AT LEAST ONE WEEK PRIOR TO THE DATE OF THE MEETING. THE CONTRACTOR'S JOB SUPERINTENDENT AND ALL MAJOR SUB-CONTRACTORS SHALL ATTEND.
16. BEDDING FOR ALL PIPE LINES SHALL CONFORM TO CITY OF LODI STANDARD PLAN 501-A, 501-B AND 501-C UNLESS OTHERWISE SHOWN.
17. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY FOR OIL PERSONS AND PROPERTY; THAT HIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE 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 THE ENGINEER.
18. WATER USED IN ANY PHASE OF CONSTRUCTION, SUCH AS BACKFILL COMPACTION, DUST CONTROL, TESTING OR OTHER WORK HEREIN REQUIRED, SHALL BE INCLUDED IN THE UNIT PRICE OR LUMP SUM BID FOR THE RESPECTIVE ITEM OF CONSTRUCTION OR ITEMS OF WORK.
19. AC MIX DESIGN SHALL BE SUBMITTED BY THE CONTRACTOR TO THE CITY FOR APPROVAL AT LEAST 30 DAYS BEFORE PAVING.
20. PROJECT SURVEYOR SHALL SET ALL SURVEY CONTROLS AND CONSTRUCTION STAKES AS NECESSARY FOR COMPLETION OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRESERVATION OF ALL SURVEY AND CONSTRUCTION STAKES. SURVEY AND CONSTRUCTION STAKES THAT ARE LOST OR DESTROYED DUE TO CONTRACTOR'S NEGLIGENCE WILL BE SET BY THE PROJECT SURVEYOR AT THE CONTRACTORS EXPENSE.
21. CONTRACTOR SHALL GIVE ENGINEER A MINIMUM OF 48 HOURS NOTICE WHEN REQUESTING CONSTRUCTION STAKING.
22. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO KEEP DUST TO A MINIMUM COST TO BE INCLUDED IN OTHER ITEMS OF WORK.
23. CONTRACTOR SHALL SUPPLY AND INSTALL STREET SIGN POSTS AND STREET NAME SIGNS, REGULATORY SIGNS PER STANDARD PLAN NO.119 AND 142 AND AS NOTED ON PLANS. CONTRACTOR TO CONTACT PUBLIC WORKS INSPECTOR FOR STREET BLOCK NUMBERS.
24. REMOVAL OF PAVEMENT AT ENDS OF EXISTING STREETS TO PROVIDE PROPERTY TRANSITIONS MAY BE REQUIRED IN EXCESS OF 2 FEET AS DIRECTED BY CITY IMMEDIATELY PRIOR TO PAVING.
25. TRAFFIC CONTROL PER CALTRANS TRAFFIC CONTROL MANUAL (LATEST EDITION). NO OPEN TRENCHES EXCEPT AT THE TIME OF WORK. USE STEEL PLATES OR BACKFILL WITH A.C. CAP.
26. A PROJECT IDENTIFICATION SIGN SHALL BE INSTALLED AS SHOWN ON THE PLANS, PRIOR TO GRADING. SEE SHEET 15 FOR LOCATION.
27. CONTRACTOR IS TO VERIFY THE DEPTH AND/OR LOCATION IN THE FIELD OF ALL EXISTING UTILITIES BEFORE THE START OF CONSTRUCTION.
28. STREET PAVING: THE FINAL COMPACTED MIXTURE SHALL BE A MINIMUM OF 93% RELATIVE TO MAXIMUM THEORETICAL SPECIFIC GRA

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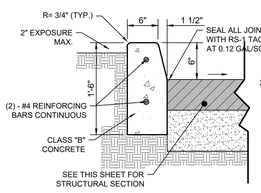
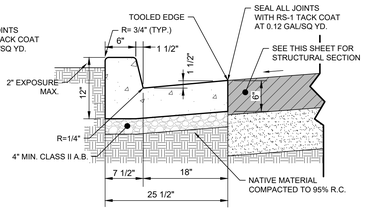
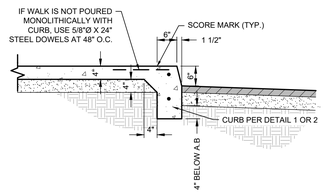


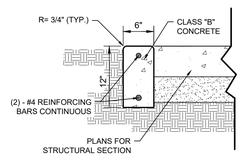
1 VERTICAL CURB
NOT TO SCALE



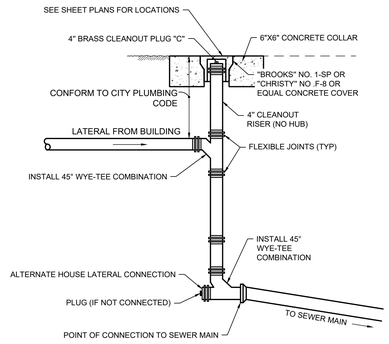
2 CURB & GUTTER
NOT TO SCALE



3 CURB & SIDEWALK
NOT TO SCALE

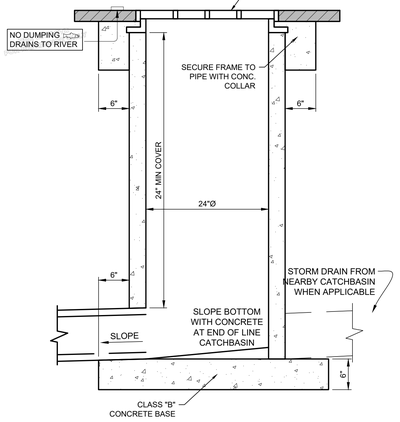


4 FLUSH CURB
NOT TO SCALE



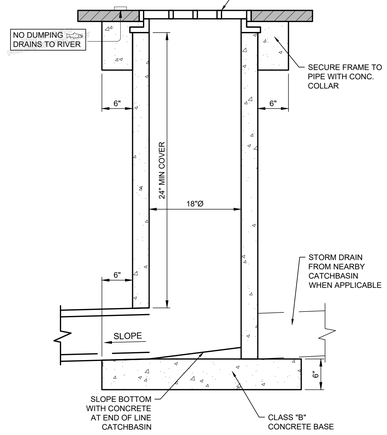
SS1 CLEAN-OUT
NOT TO SCALE

NOTE:
FOR GRATING LOCATED ON THE SURFACE OF ANY PEDESTRIAN WAY IN THE PATH OF TRAVEL, GRID OR ANY OPENING IN GRATING SHALL BE LIMITED TO 1/2" IN THE DIRECTION OF TRAFFIC FLOW, PROVIDE MANUFACTURER'S CUT SHEET FOR REVIEW.

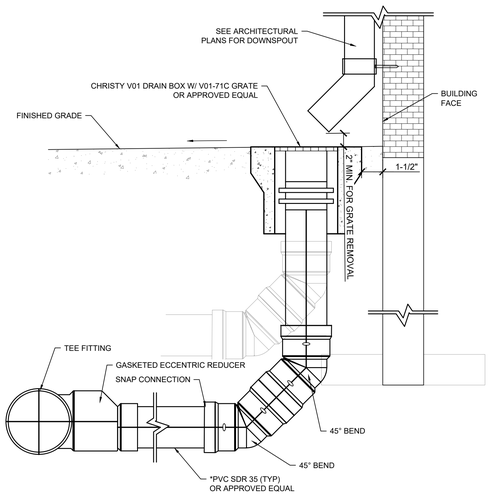


SD1 24"Ø STORM DRAIN CATCH BASIN
NOT TO SCALE

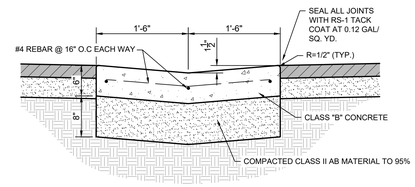
NOTE:
FOR GRATING LOCATED ON THE SURFACE OF ANY PEDESTRIAN WAY IN THE PATH OF TRAVEL, GRID OR ANY OPENING IN GRATING SHALL BE LIMITED TO 1/2" IN THE DIRECTION OF TRAFFIC FLOW, PROVIDE MANUFACTURER'S CUT SHEET FOR REVIEW.



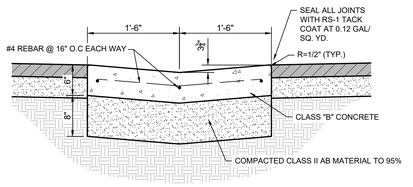
SD1 18"Ø STORM DRAIN CATCH BASIN
NOT TO SCALE



SD5 DOWNSPOUT CONNECTION DETAIL
NOT TO SCALE

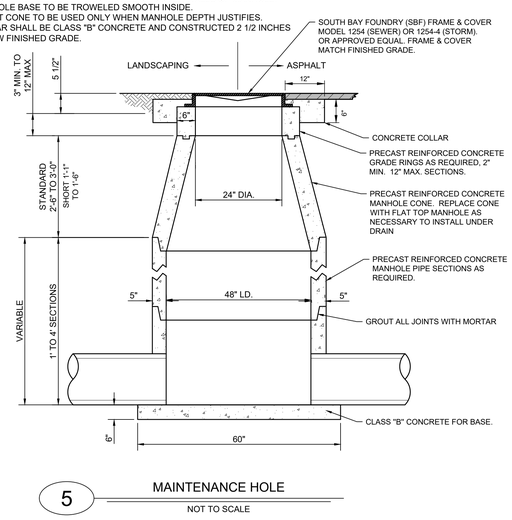


6 VALLEY GUTTER
NOT TO SCALE



6 ADA VALLEY GUTTER
NOT TO SCALE

NOTES:
1. PRECAST CONCRETE M.H. UNITS SHALL CONFORM TO A.S.T.M. C-478.
2. PIPE JOINT SHALL BE WITHIN 6 INCHES OF OUTER WALLS OF MANHOLE.
3. MANHOLE BASE TO BE TROWELED SMOOTH INSIDE.
3. SHORT CONE TO BE USED ONLY WHEN MANHOLE DEPTH JUSTIFIES.
5. COLLAR SHALL BE CLASS "B" CONCRETE AND CONSTRUCTED 2 1/2 INCHES BELOW FINISHED GRADE.



5 MAINTENANCE HOLE
NOT TO SCALE

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KEYNOTES

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FAX : (209) 239 - 8839

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1305 E VINE ST,
LODI, CA 95240

PROJECT:
SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1

SHEET NAME:
CONSTRUCTION DETAILS

DESIGN DEVELOPMENT

DATE: **09/26/2025**
CLIENT PROJ NO:

SHEET:

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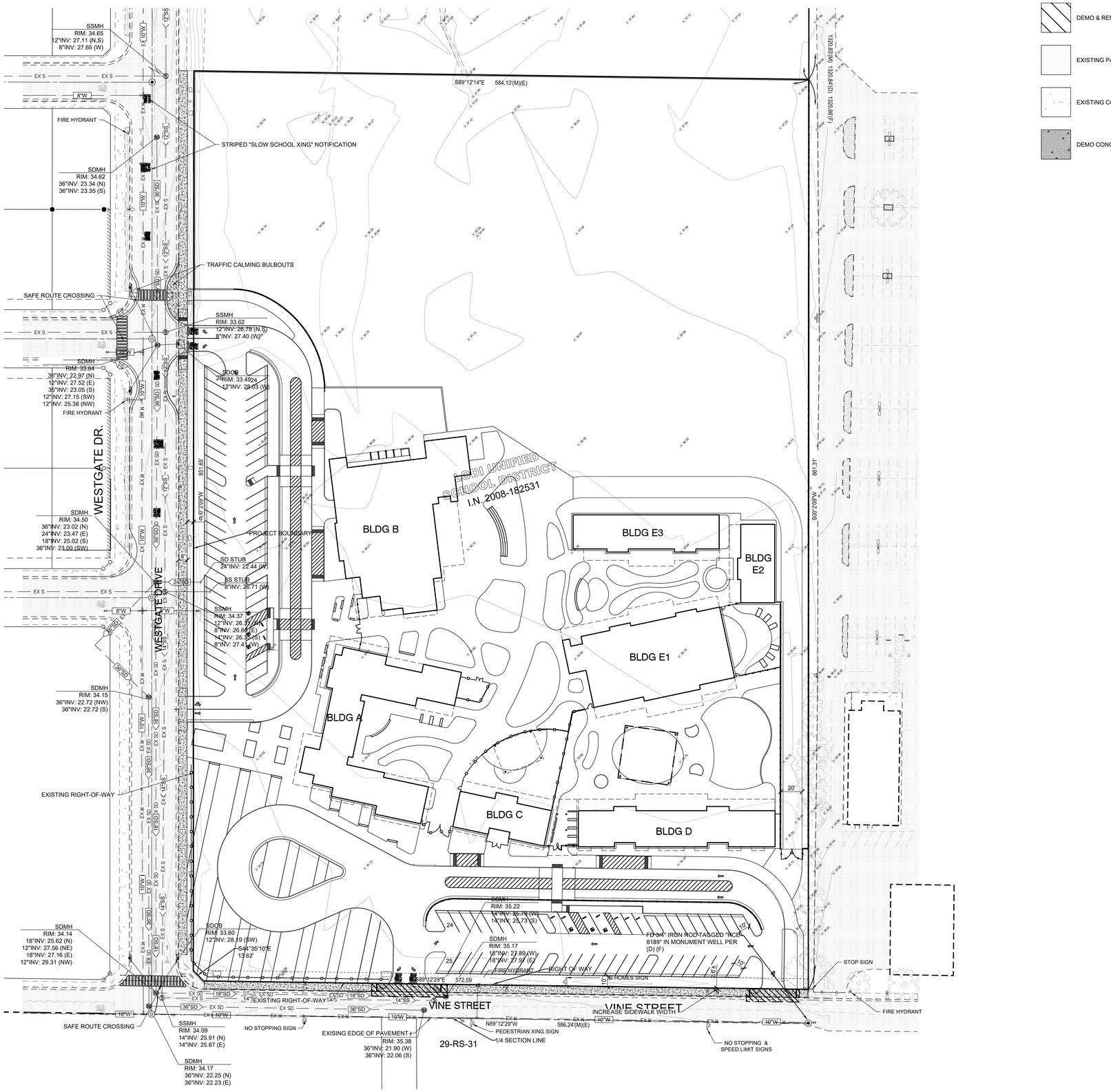

DEMOLITION LEGEND

- SAWCUT LINE
- EDGE OF WORK LIMIT
- DEMO & REMOVE
- EXISTING PAVEMENT: (TO REMAIN)
- EXISTING CONCRETE: (TO REMAIN)
- DEMO CONCRETE

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TOPO NOTES:

1. UNLESS OTHERWISE IDENTIFIED ALL EXISTING FACILITIES SHOWN IN THE TOPOGRAPHIC AND DEMO PLAN ARE TO BE PRESERVED AND PROTECTED DURING CONSTRUCTION. CONTACT DESIGN ENGINEER IF FACILITIES SHOWN TO REMAIN COME IN CONFLICT WITH PROPOSED IMPROVEMENTS.
2. ALL EXISTING UTILITIES WERE PLOTTED FROM RECORD INFORMATION AND FIELD TOPOGRAPHY. ACTUAL LOCATIONS MAY VARY AND ADDITIONAL CROSSINGS MAY EXIST IN THE FIELD. IT IS IMPERATIVE THAT "U.S.A." LOCATION SERVICES ARE LOCATED AND MARKED PRIOR TO START OF EXCAVATION.
3. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN EXPOSING EXISTING UTILITY CROSSINGS AND SERVICES.
4. ANY DAMAGE TO EXISTING UTILITIES WILL BE SOLE RESPONSIBILITY OF THE CONTRACTOR.
5. ANY DAMAGE TO EXISTING SIDEWALK, CURB OR GUTTER WILL BE SOLE RESPONSIBILITY OF THE CONTRACTOR, WITH REPLACEMENT TO BE DETERMINED BY THE ENGINEER.
6. CONTRACTOR SHALL ADJUST EXISTING MANHOLE RIMS, WATER VALVES, AND MONUMENT BOXES TO FINISH GRADE.
7. ALL SAWCUTS SHALL BE MADE AT EXISTING EXPANSION OR WEAKENED PLANE JOINTS WITH APPROVAL PENDING DISTRICT REPRESENTATIVE.
8. CONTRACTOR TO CONFIRM AREAS OF NONCOMPLIANCE WITH INSPECTOR PRIOR TO CONSTRUCTION
9. WHEN REMOVING CONCRETE AT AREAS OF NON COMPLIANCE, CONTRACTOR SHALL REMOVE BEYOND THE LIMIT SHOWN TO THE NEAREST JOINT.

REGISTERED PROFESSIONAL ENGINEER MARSHALL T. SMITH No. C87499 CIVIL STATE OF CALIFORNIA

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1305 E VINE ST,
LODI, CA 95240

PROJECT:

SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1

SHEET NAME:

TOPOGRAPHIC SURVEY & DEMOLITION PLAN

DESIGN DEVELOPMENT

DATE: **09/26/2025** | CLIENT PROJ NO:

SHEET:

C3.0.1

NORTH 0 20 40

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SEE SHEET C4.1.1 FOR CONTINUATION

PAVEMENT SECTIONS:

- ASPHALT PAVEMENT: T.I. = 6.0 • 3.5" A.C. OVER 8.0" A.B.
- ASPHALT PAVEMENT: T.I. = 4.5 • 2.5" A.C OVER 6.0" A.B.
- CONCRETE: • 6" CONCRETE OVER 6.0" A.B.
- CONCRETE: REFER TO DETAIL 3 ON SHEET C1 FOR SECTION
- EXISTING CONCRETE:
- EXISTING PAVEMENT:
- 1 / C2.0 DETAIL LETTER / NUMBER SHEET LOCATION

NORTH

0 15 7.5

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KEYNOTES

NOTES

1. DIMENSION TO FLOWLINE OF CURB UNLESS OTHERWISE NOTED.
2. SEE ARCHITECTURAL DRAWINGS FOR CONCRETE JOINT PATTERNS AND LOCATIONS.
3. ALL CURBS ADJACENT TO ENTRANCES TO A PARKING LOT, TRASH ENCLOSURE, PORTE COCHERE, AISLE WITHOUT PARKING, LOADING ZONE, AND EXTERIOR CURB OF ANY INTERIOR PARKING ISLANDS MUST BE PANTED RED WITH WHITE LETTERING DESIGNATING "NO PARKING FIRE LANE".
4. SEE ARCHITECTURAL PLANS FOR ADA SIGNAGE.
5. CONTRACTOR SHALL ADJUST EXISTING MANHOLE RIMS, WATER VALVES, ELECTRICAL BOXES/VAULTS, UTILITY APPURTENANCES & MONUMENT BOXES TO FINISH GRADE.

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1305 E VINE ST,
LODI, CA 95240

PROJECT:
SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1

SHEET NAME:
DIMENSIONING & PAVING PLAN SE

DESIGN DEVELOPMENT

DATE: **09/26/2025** | CLIENT PROJ NO:

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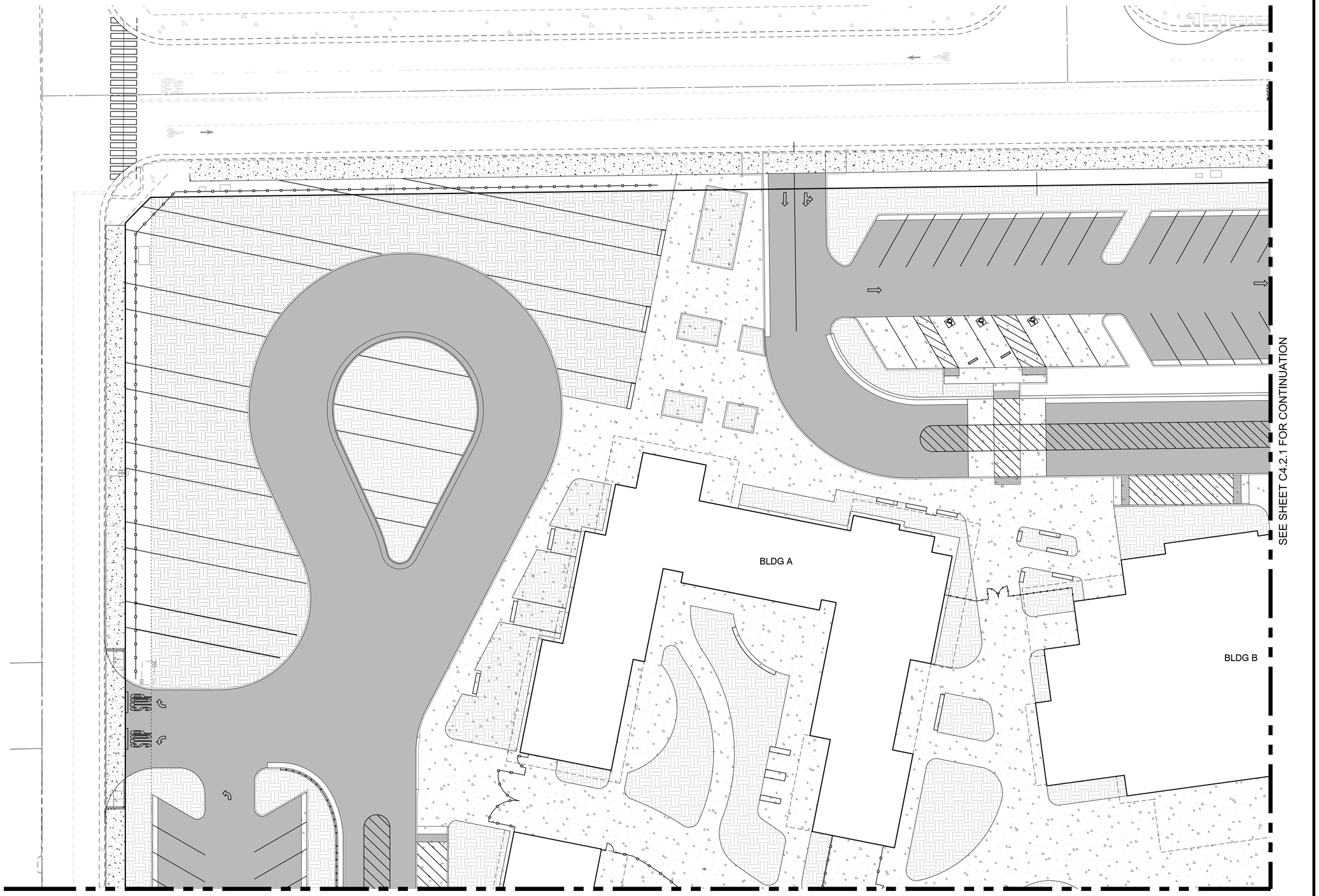

PAVEMENT SECTIONS:

- ASPHALT PAVEMENT: T.I. = 6.0 • 3.5" A.C. OVER 8.0" A.B.
- ASPHALT PAVEMENT: T.I. = 4.5 • 2.5" A.C OVER 6.0" A.B.
- CONCRETE: • 6" CONCRETE OVER 6.0" A.B.
- CONCRETE: REFER TO DETAIL 3 ON SHEET C1 FOR SECTION
- EXISTING CONCRETE:
- EXISTING PAVEMENT:
- 1 / C2.0 DETAIL LETTER / NUMBER SHEET LOCATION

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KEYNOTES

NOTES

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PROJECT:
SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1

SHEET NAME:
DIMENSIONING & PAVING PLAN SW

DESIGN DEVELOPMENT

DATE: **09/26/2025** | CLIENT PROJ NO:

SHEET:

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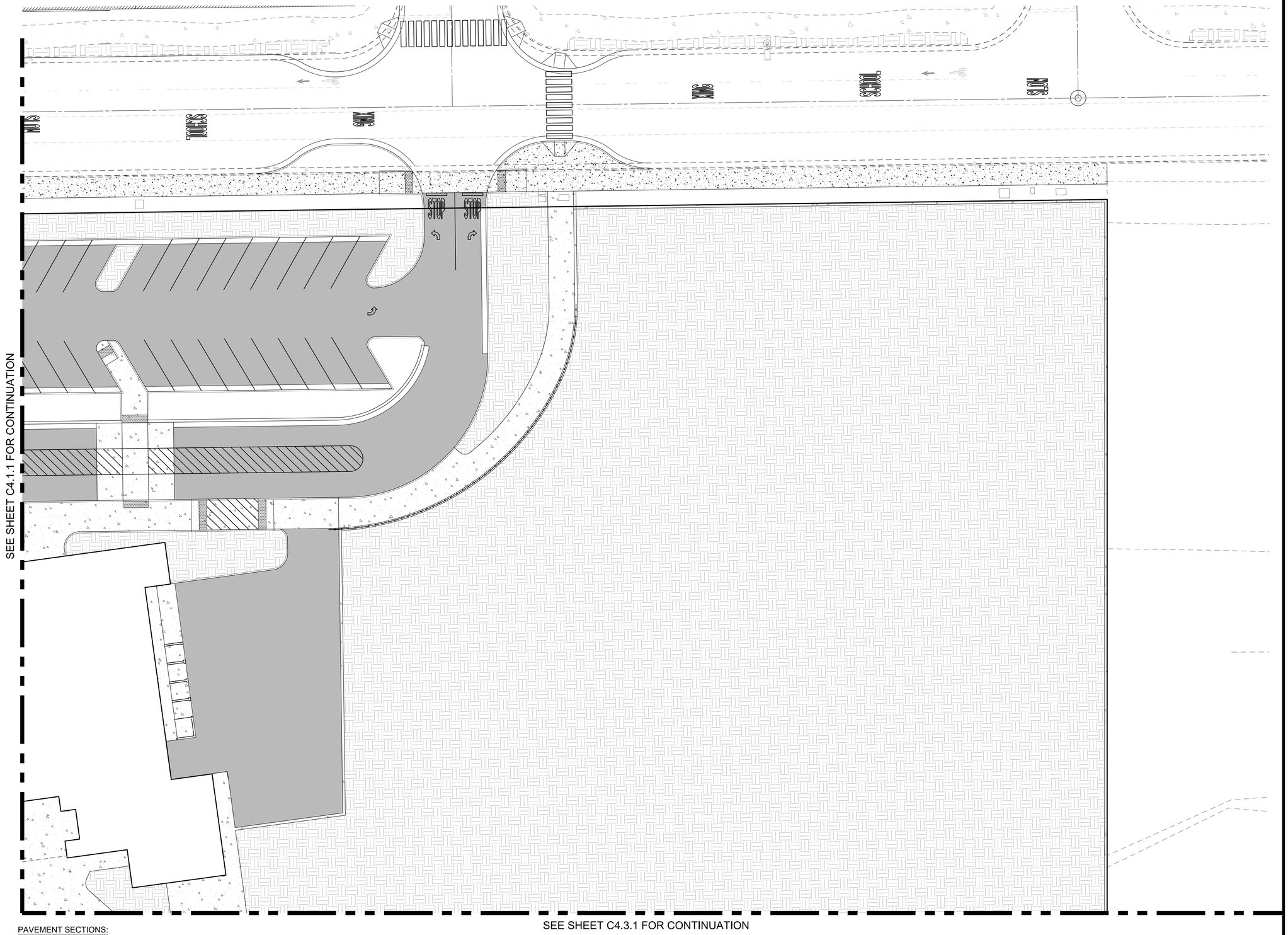

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- EXISTING CONCRETE:
- EXISTING PAVEMENT:
- 1 / C2.0 DETAIL LETTER / NUMBER SHEET LOCATION

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• 3.5" A.C. OVER 8.0" A.B.

ASPHALT PAVEMENT:
T.I. = 4.5
• 2.5" A.C OVER 6.0" A.B.

CONCRETE:
• 6" CONCRETE OVER 6.0" A.B.

CONCRETE:
REFER TO DETAIL 3 ON SHEET C1
FOR SECTION

EXISTING CONCRETE:

EXISTING PAVEMENT:

1 / C2.0 DETAIL LETTER / NUMBER
SHEET LOCATION

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DESIGN DEVELOPMENT

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XX.XX	EXISTING GROUND	XX.XX / XX	ELEVATION
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		#####	DIRECTION OF FLOWLINE

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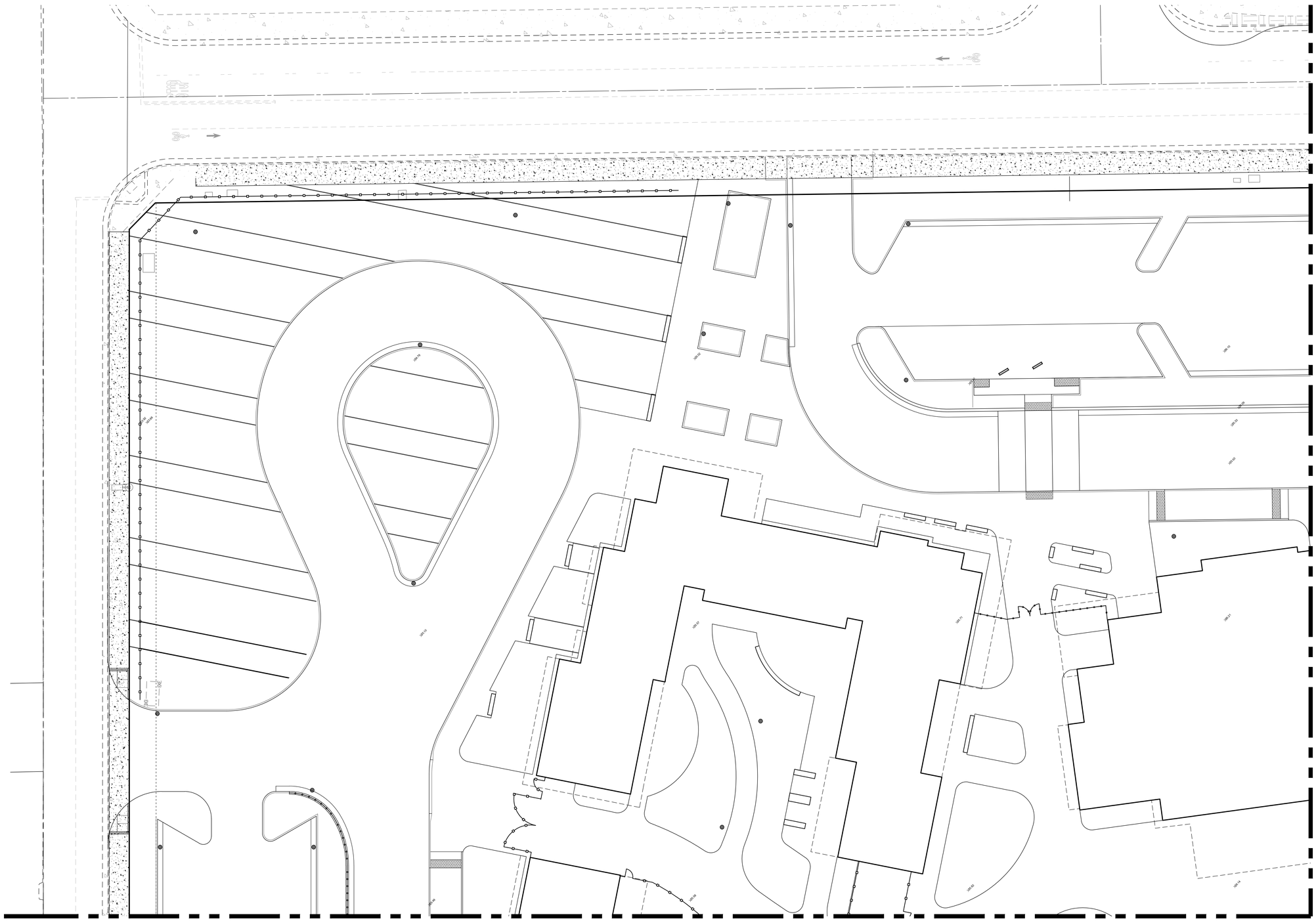

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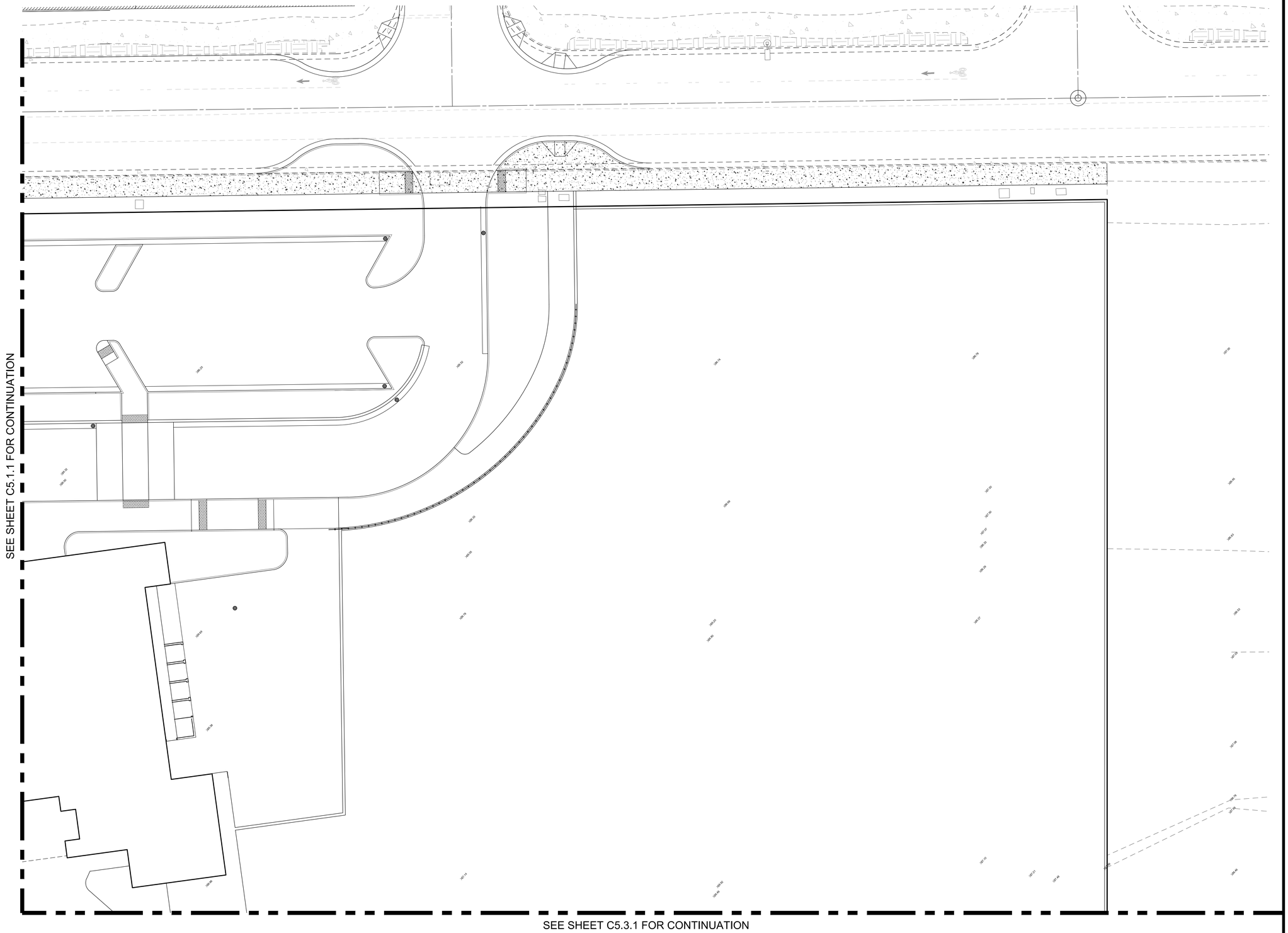

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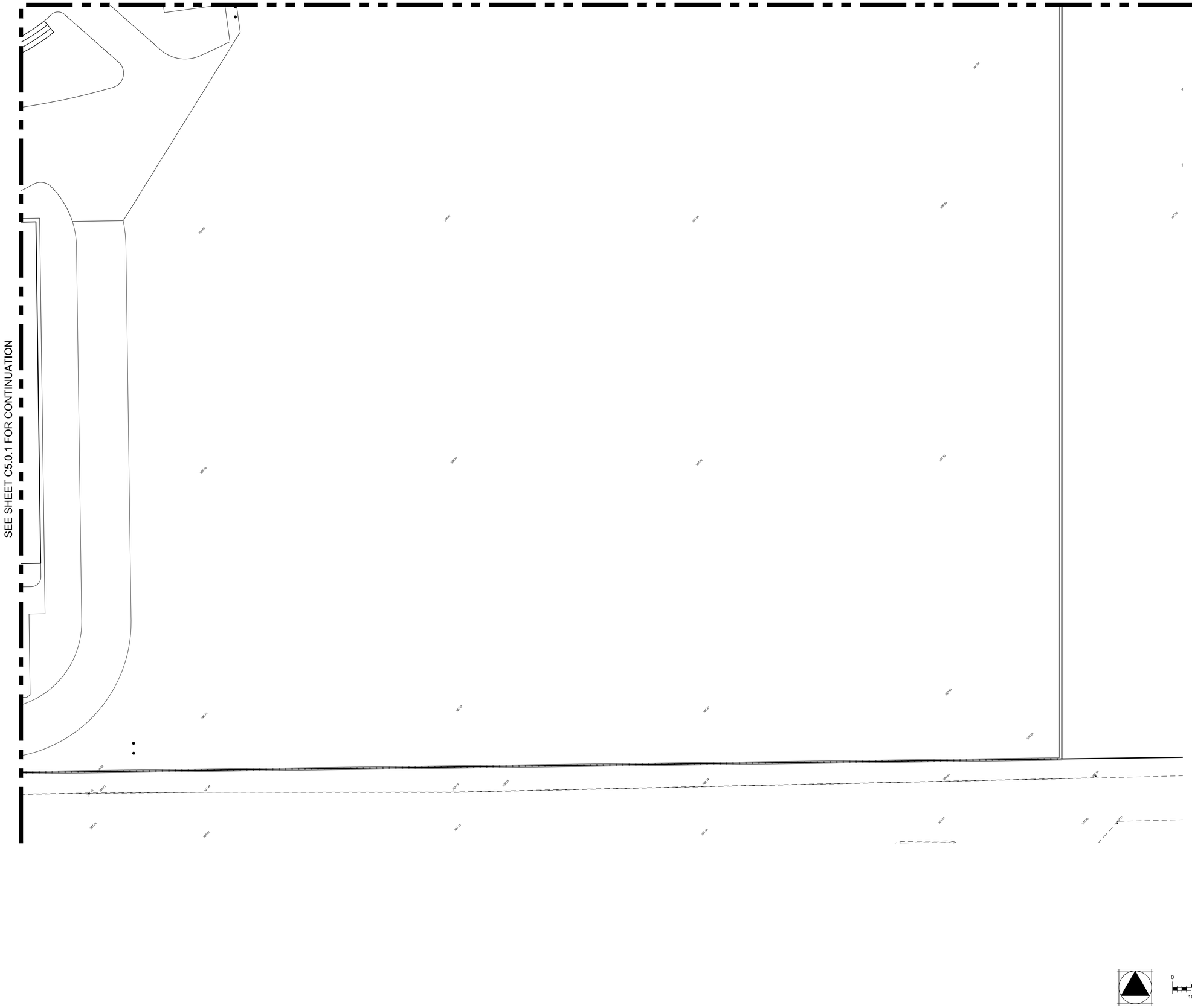

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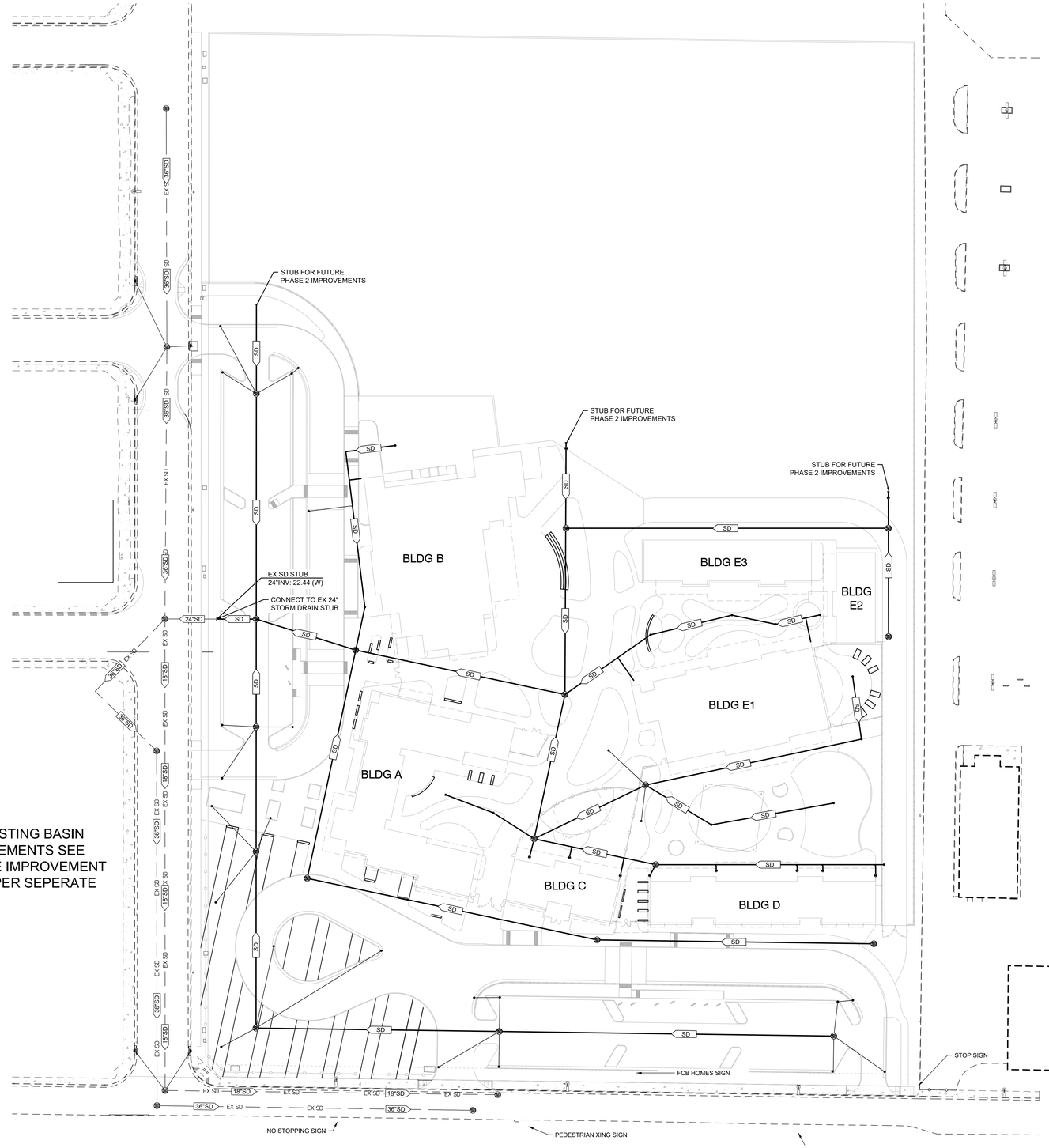

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STORM DRAIN NOTES:

1. ALL EXISTING UTILITIES WERE PLOTTED FROM RECORD INFORMATION AND FIELD TOPOGRAPHY. ACTUAL LOCATIONS MAY VARY AND ADDITIONAL CROSSINGS MAY EXIST IN THE FIELD. IT IS IMPERATIVE THAT "U.S.A" LOCATING SERVICES, LOCATE AND MARK UTILITIES PRIOR TO THE START OF EXCAVATION.
2. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN EXPOSING EXISTING UTILITY CROSSING AND SERVICES.
3. ANY DAMAGE TO EXISTING UTILITIES WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
4. ALL UTILITIES TO BE RAISED TO GRADE

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SHEET NAME:
STORM DRAIN PLAN

DESIGN DEVELOPMENT

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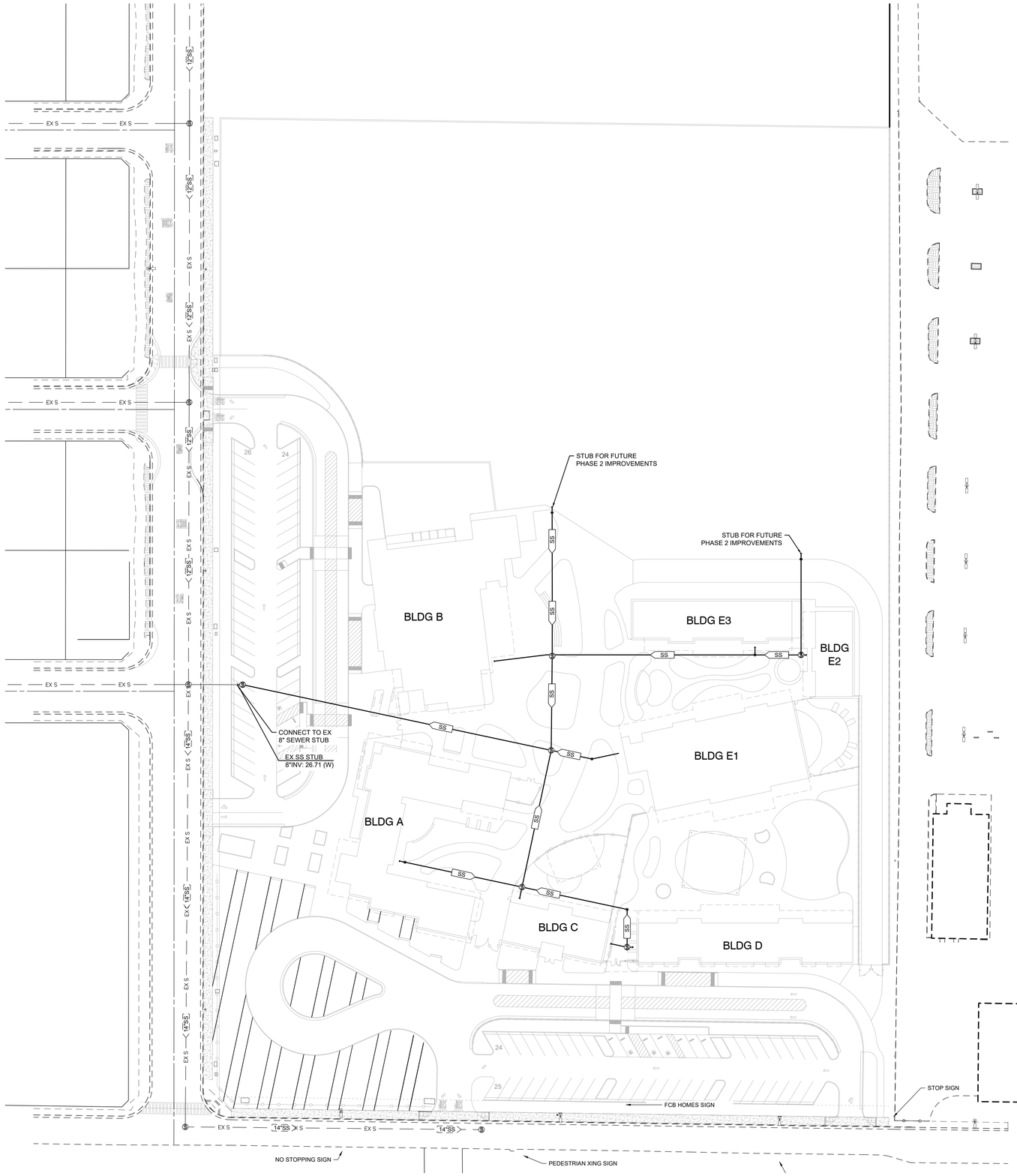

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1. ALL EXISTING UTILITIES WERE PLOTTED FROM RECORD INFORMATION AND FIELD TOPOGRAPHY. ACTUAL LOCATIONS MAY VARY AND ADDITIONAL CROSSINGS MAY EXIST IN THE FIELD. IT IS IMPERATIVE THAT "U.S.A" LOCATING SERVICES, LOCATE AND MARK UTILITIES PRIOR TO THE START OF EXCAVATION.
2. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN EXPOSING EXISTING UTILITY CROSSING AND SERVICES.
3. ANY DAMAGE TO EXISTING UTILITIES WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
4. ALL UTILITIES TO BE RAISED TO GRADE

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PROJECT:
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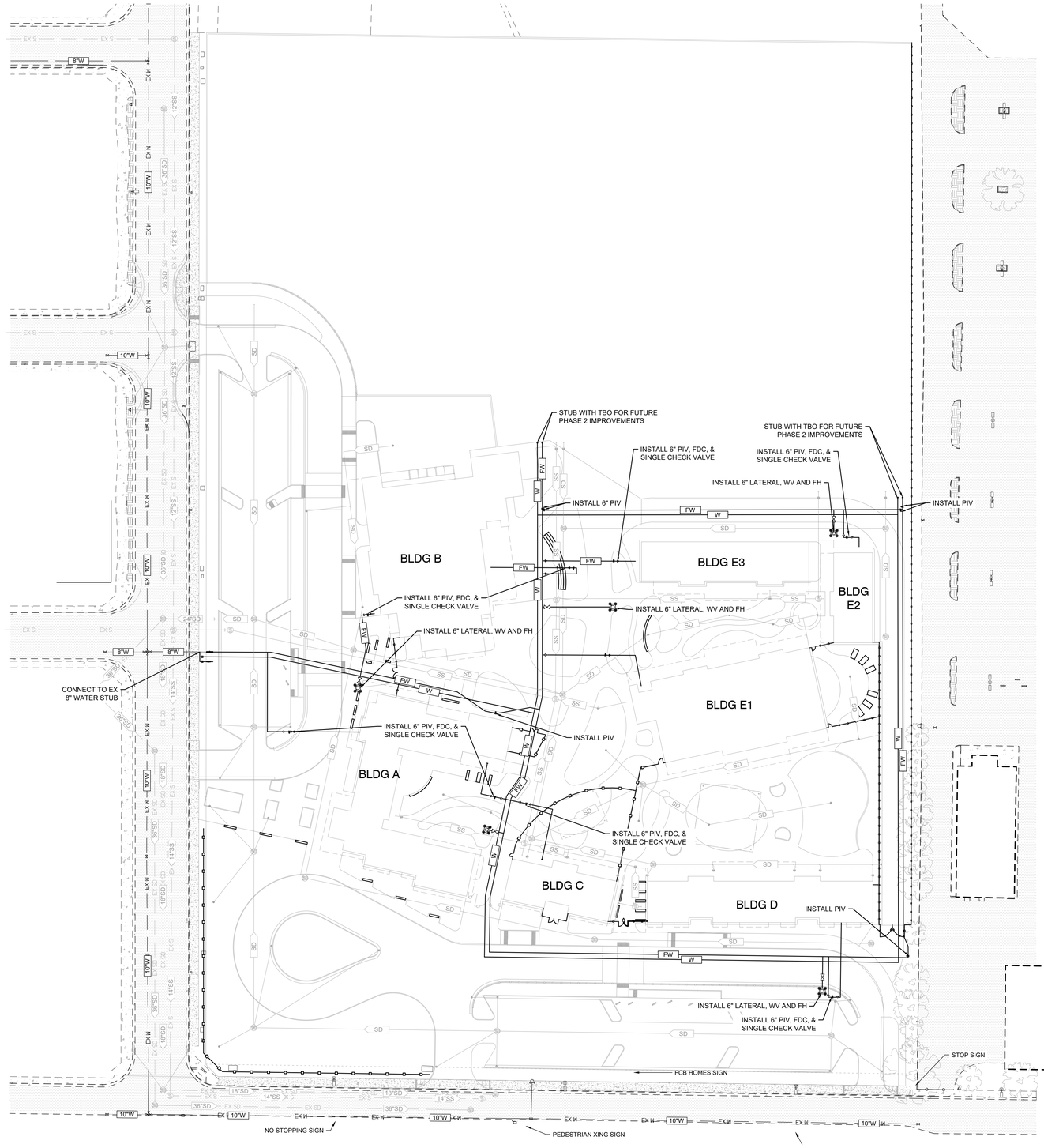

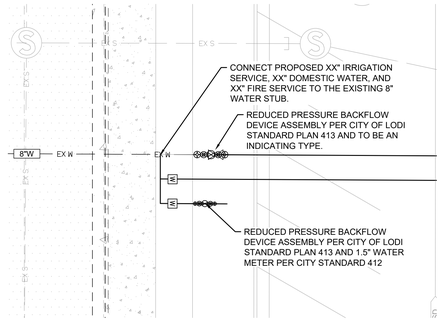

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4. GAS LINE SHOWN ON THIS DRAWING FOR UTILITY COORDINATION ONLY. DESIGN, MATERIALS AND SPECIFICATIONS BY OTHER. SEE PLUMBING SITE PLAN
5. ALL FIRE PROTECTION WATER LINE MATERIALS SHALL BE APPROVED BY THE LOCAL FIRE MARSHAL PRIOR TO INSTALLATION.
6. SEE FP1.0 FOR HYDRAULIC NODES ON FIRE SPRINKLER LINES.
7. INSTALL DOUBLE LAYER OF MIRAFI 140N FABRIC STAPLED AT 6" OC AROUND SD DI GRATE LOCATED WITHIN PLAYGROUNDS WITH BARK .
8. ALL WATER VALVES TO BE INSTALLED IN G5 TRAFFIC RATED BOX W/ SDR-35 PVC RISER AND A 2" OPERATING NUT

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PROJECT:

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SHEET NAME:

WATER & COMPOSITE UTILITY PLAN

DESIGN DEVELOPMENT

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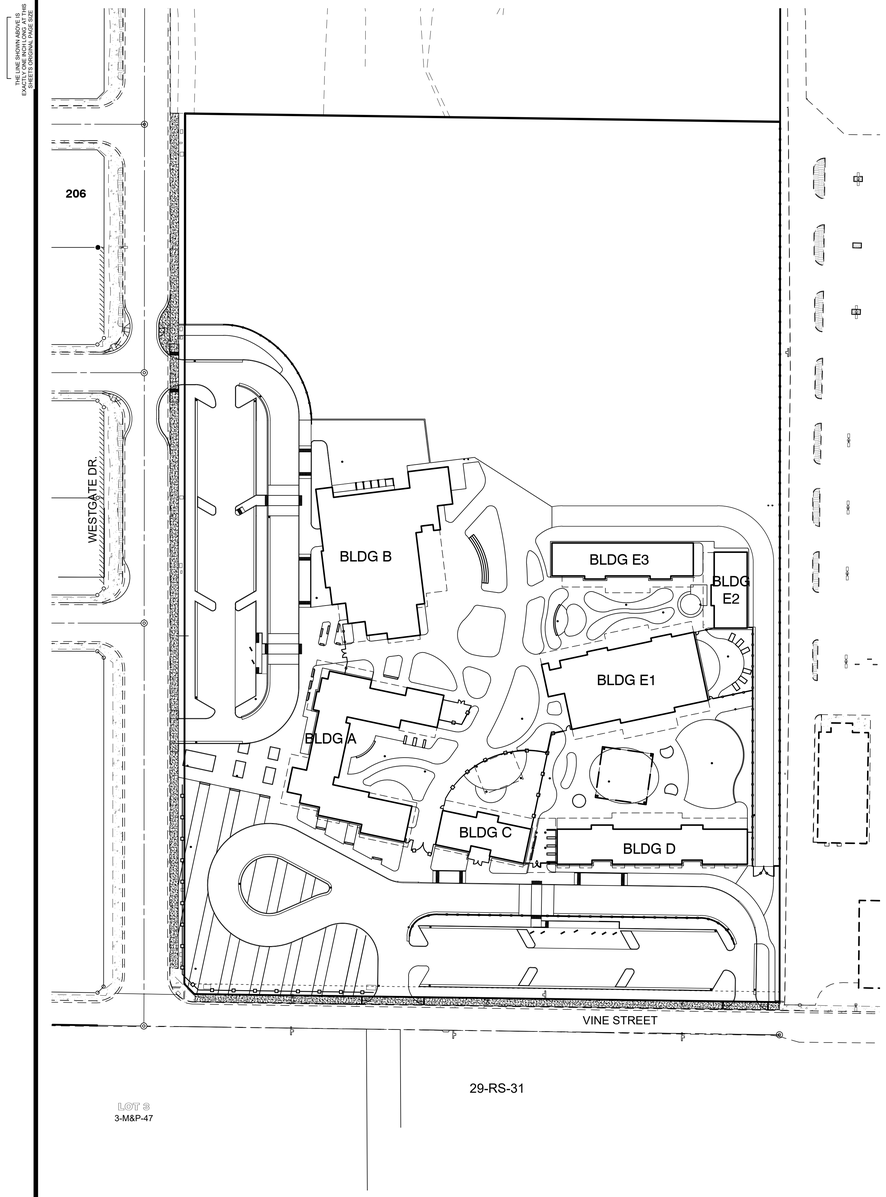
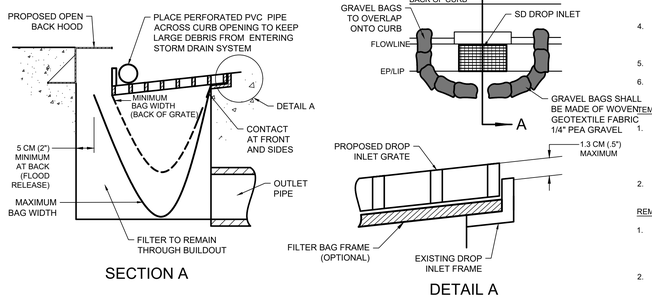


LEGEND

STABILIZED CONSTRUCTION ENTRANCE (TC-1)	EXISTING CURB INLET
	CURB INLET
STRAW ROLLS (SE-5)	CATCH BASIN
SILT FENCE (SE-1)	PROPOSED: CURB INLET SEDIMENT PROTECTION (SE-10, SEE DETAIL A)
1 DESIGNATED ENTRANCE/OUTLET TIRE WASH (TC-3)	PROPOSED: DRAIN INLET SEDIMENT PROTECTION (SE-10, SEE DETAIL B)
2 DESIGNATED VEHICLE MAINTENANCE AREA (NS-8, NS-9, NS-10)	EXISTING: CURB INLET SEDIMENT PROTECTION (SE-10, SEE DETAIL C)
3 DESIGNATED CONCRETE WASHOUT AREA (WM-8)	GRAVEL BAGS
4 DESIGNATED JOB TRAILER & LAYDOWN AREA (WM-1)	

STORM DRAIN INLET FILTER BAG

1. GRAVEL BAGS SHALL BE WOVEN GEOTEXTILE FABRIC
2. CONSTRUCT ON GENTLY SLOPING STREETS WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE OUT OF SUSPENSION.
3. LEAVE A GAP OF ONE BAG IN THE MIDDLE OF THE TOP ROW OF BAGS TO SERVE AS THE SPILLWAY. SPILLWAY HEIGHT SHALL BE LOWER THAN CURB HEIGHT & SUFFICIENT IN SIZE TO PASS FLOWS FROM SEVERE STORM EVENT.
4. PLACE 2 LAYERS OF GRAVEL BAGS OVER LAPPING BAGS AND PACK THEM TIGHTLY TOGETHER TO MINIMIZE THE SPACE BETWEEN BAGS. FILL BAG WITH 1/4" PEA GRAVEL
5. INSPECT & REPAIR FILTERS AFTER EA. STORM EVENT. REMOVE SEDIMENT WHEN 1/2 OF THE FILTER DEPTH HAS BEEN FILLED. REMOVED SEDIMENT SHALL BE DEPOSITED IN AN AREA TRIBUTARY TO A SEDIMENT BASIN OR OTHER FILTERING MEASURE.
6. SEDIMENT & GRAVEL SHALL BE IMMEDIATELY REMOVED FROM TRAVELED WAY OF ROAD.
7. GRAVEL BAG INLET PROTECTION ON ROADS OPEN TO PUBLIC WILL REQUIRE DELINEATION DEVICES TO ALERT MOTORISTS, BICYCLISTS AND PEDESTRIANS. THE USE OF SUCH DEVICES SHALL BE SUBJECT TO THE RESIDENT ENGINEERS APPROVAL.



A STORM DRAIN CURB INLET FILTER BAG DETAIL (SE-10)

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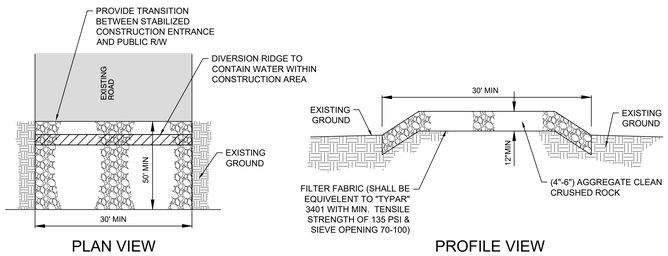

1 STABILIZED CONSTRUCTION ENTRANCE (TC-1)

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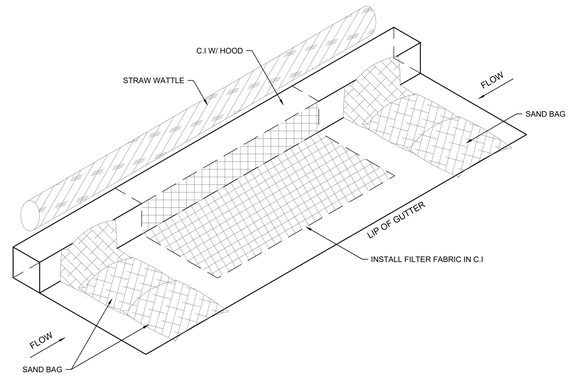

C EXISTING CURB INLET FILTER DETAIL (SE-10)

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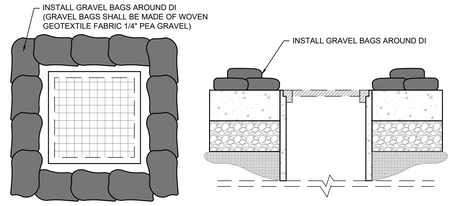

B STORM DRAIN INLET FILTER BAG DETAIL (SE-10)

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GENERAL NOTES

1. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE EFFECTIVE FOR THE DURATION OF THE CONSTRUCTION ACTIVITY.
2. NO STORM RUNOFF WATER SHALL BE ALLOWED TO DRAIN DIRECTLY INTO THE EXISTING UNDERGROUND STORM SYSTEM BEFORE THE ON-SITE STORM DRAIN SYSTEM, LANDSCAPE, AND PAVING IS INSTALLED AND COMPLETED.
3. AS SOON AS IS PRACTICAL AFTER THE NEW ON-SITE STORM DRAIN SYSTEM IS INSTALLED, THE CATCH BASINS SHALL BE INSTALLED AND GRAVEL BAGS AND SCREENS SHALL BE PLACED AROUND THE CATCH BASINS, AS SHOWN. THE CONTRACTOR SHALL HAVE AN OPTION TO INSTALL PREFABRICATED STEEL FRAMES WITH FILTER SCREEN OF FILTER FABRIC ATTACHED TO THE FRONT OF THE DRAIN INLET AND EXTEND 12 INCHES (12") ON EACH SIDE OF THE DRAIN INLET OPENING. FRAME SHALL BE APPROVED BY THE CITY ENGINEER AND SHALL FIT THE OPENING WITH LESS THAN ONE-QUARTER INCH (1/4") GAP AT ANY ONE POINT.
4. THE NAME, ADDRESS AND 24-HOUR TELEPHONE NUMBER OF THE PERSON RESPONSIBLE FOR IMPLEMENTATION OF THE EROSION AND SEDIMENTATION CONTROL PLAN SHALL BE PROVIDED.
5. A MINIMUM OF 50' OF DRAIN ROCK, 1-1/2" DIAMETER OR LARGER, AT A MINIMUM DEPTH OF 6", SHALL BE INSTALLED AT EACH DRIVEWAY ENTRANCE TO THE SITE. THIS DOES NOT NEED TO BE DONE AT DRIVEWAYS, WHICH WILL BE CLOSED BY IMMOVABLE BARRICADES DURING CONSTRUCTION.
6. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE MAINTAINED UNTIL DISTURBED AREAS ARE STABILIZED. CHANGES TO THE EROSION AND SEDIMENTATION CONTROL PLAN SHALL BE MADE TO MEET FIELD CONDITIONS, BUT ONLY WITH THE APPROVAL OF OR AT THE DIRECTION OF THE CITY ENGINEER.
7. DURING THE RAINY SEASON ALL SIDEWALK AND PAVED AREAS SHALL BE KEPT CLEAR OF EARTH MATERIAL AND DEBRIS. THE SITE SHALL BE MAINTAINED SO AS TO MINIMIZE SEDIMENT LADEN RUNOFF FROM ENTERING ANY STORM DRAINAGE SYSTEM.
8. THE EROSION AND SEDIMENTATION CONTROL PLAN COVERS ONLY THE FIRST WINTER DURING WHICH CONSTRUCTION IS TO TAKE PLACE. PLANS ARE TO BE RESUBMITTED PRIOR TO SEPTEMBER 1 OF EACH SUBSEQUENT YEAR UNTIL THE CITY ACCEPTS THE SITE IMPROVEMENTS.
9. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSPECT AND REPAIR ALL EROSION CONTROL FACILITIES AT THE END OF EACH WORK DAY DURING THE RAINY SEASON.
10. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CLEAN OUT SEDIMENT BASINS WHENEVER THE LEVEL OF SEDIMENT REACHES THE SEDIMENT CLEAN OUT LEVEL INDICATED ON THE PLANS.
11. IT IS THE RESPONSIBILITIES OF THE CONTRACTOR TO PROTECT TEMPORARY BORROW AREAS AND/OR STOCKPILES WITH APPROPRIATE EROSION CONTROL MEASURES SATISFACTORY TO THE CITY ENGINEER.
12. THE CLEANING OF PAVED STREETS, DURING AND AT THE COMPLETION OF CONSTRUCTION, SHALL BE PERFORMED WITH MECHANICAL SWEEPERS. THE USE OF WATER TRUCKS TO "WASH DOWN" THE STREET IS PROHIBITED.
13. SEAL OR SKIRT BETWEEN TRAILER & GRADING TO PREVENT EXPOSURE TO DRAIN.
14. THE FOLLOWING PLANS ARE ACCURATE FOR EROSION CONTROL PURPOSES ONLY.
15. THE INFORMATION ON THIS PLAN IS INTENDED TO BE USED AS A GUIDELINE FOR THE CONTRACTOR AND SUBCONTRACTORS TO COMPLY WITH THE REQUIREMENTS OF THE STATE WATER RESOURCES CONTROL BOARD. FIELD CONDITIONS MAY NECESSITATE MODIFICATIONS TO THIS PLAN.
16. BMPS WM-5, NS-10, WM-6, AND TC-1 ARE SHOWN SCHEMATICALLY. THESE BMPS CAN BE MOVED TO FIT THE SITE CONSTRUCTION STAGING AS NEEDED BUT THEY SHALL REMAIN IN PLACE THROUGHOUT THE PROJECT CONSTRUCTION.

CONCRETE WASTE MANAGEMENT NOTES

CONCRETE SLURRY WASTES

1. PCC AND AC WASTE SHALL NOT BE ALLOWED TO ENTER STORM DRAINS OR WATERCOURSES.
2. PCC AND AC WASTE SHALL BE COLLECTED AND DISPOSED OF IN A TEMPORARY CONCRETE WASHOUT FACILITY.
3. A SIGN SHALL BE INSTALLED ADJACENT TO EACH TEMPORARY CONCRETE WASHOUT FACILITY TO INFORM CONCRETE EQUIPMENT OPERATORS TO UTILIZE THE PROPER FACILITIES.
4. DO NOT ALLOW SLURRY RESIDUE FROM WET CORING OR SAW-CUTTING AC OR PCC TO ENTER STORM DRAINS OR RECEIVING WATERS.
5. VACUUM SLURRY RESIDUE AND DISPOSE IN A TEMPORARY PIT AND ALLOW SLURRY TO DRY. DISPOSE OF DRY SLURRY RESIDUE IN ACCORDANCE WITH BMP WM-5.
6. COLLECT RESIDUE FROM GROOVING AND GRINDING OPERATIONS IN ACCORDANCE WITH STANDARD SPECIFICATIONS SECTION 42-1.02 AND 42-2.02, "CONSTRUCTION."

ON-SITE TEMPORARY CONCRETE WASHOUT FACILITY, TRANSIT TRUCK WASHOUT PROCEDURES

1. TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE LOCATED A MINIMUM OF 15 M (50 FT.) FROM STORM DRAIN INLETS, OPEN DRAINAGE FACILITIES, AND WATERCOURSES, UNLESS DETERMINED UNFEASIBLE BY THE ENGINEER. EACH FACILITY SHALL BE LOCATED AWAY FROM CONSTRUCTION TRAFFIC OR ACCESS AREAS TO PREVENT DISTURBANCE OR TRACKING.
2. A SIGN SHALL BE INSTALLED ADJACENT TO EACH WASHOUT FACILITY TO INFORM CONCRETE EQUIPMENT OPERATORS TO UTILIZE THE PROPER FACILITIES.
3. TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE CONSTRUCTED ABOVE GRADE. TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE CONSTRUCTED AND MAINTAINED IN SUFFICIENT QUANTITY AND SIZE TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS.
4. TEMPORARY WASHOUT FACILITIES SHALL HAVE A TEMPORARY PIT OR BERMED AREAS OF SUFFICIENT VOLUME TO COMPLETELY CONTAIN ALL LIQUID AND WASTE CONCRETE MATERIALS GENERATED DURING WASHOUT PROCEDURES.
5. PERFORM WASHOUT OF CONCRETE TRUCKS IN DESIGNATED AREAS ONLY.
6. ONCE CONCRETE WASTES ARE WASHED INTO THE DESIGNATED AREA AND ALLOWED TO HARDEN, THE CONCRETE SHALL BE BROKEN UP, REMOVED, AND DISPOSED. DISPOSE OF HARDENED CONCRETE ON A REGULAR BASIS.

TEMPORARY CONCRETE WASHOUT FACILITY (TYPE ABOVE GRADE)

1. TEMPORARY CONCRETE WASHOUT FACILITY (TYPE ABOVE GRADE) SHALL BE CONSTRUCTED AS SHOWN ON THE PLANS, WITH A RECOMMENDED MINIMUM LENGTH AND MINIMUM WIDTH OF 3 M (10 FEET), BUT WITH SUFFICIENT QUANTITY AND VOLUME TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS. THE LENGTH AND WIDTH OF A FACILITY MAY BE INCREASED, AT THE CONTRACTOR'S EXPENSE, UPON APPROVAL OF THE ENGINEER.
2. PLASTIC LINING MATERIAL SHALL BE A MINIMUM OF 60 ML POLYETHYLENE SHEETING AND SHALL BE FREE OF HOLES, TEARS OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.

REMOVAL OF TEMPORARY CONCRETE WASHOUT FACILITIES

1. WHEN TEMPORARY CONCRETE WASHOUT FACILITIES ARE NO LONGER REQUIRED FOR THE WORK, AS DETERMINED BY THE ENGINEER, THE HARDENED CONCRETE SHALL BE REMOVED AND DISPOSED OF. MATERIALS USED TO CONSTRUCT TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BECOME THE PROPERTY OF THE CONTRACTOR, SHALL BE REMOVED FROM THE SITE OF THE WORK, AND SHALL BE DISPOSED OF.
2. HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCE CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE BACKFILLED AND REPAIRED IN CONFORMANCE WITH THE PROJECT SPECIFICATIONS.
3. THE CONTRACTOR'S WASTE POLLUTION CONTROL MANAGER (WPCM) SHALL MONITOR ON SITE CONCRETE WASTE STORAGE AND DISPOSAL PROCEDURES AT LEAST WEEKLY.
4. THE WPCM SHALL MONITOR CONCRETE WORKING TASKS, SUCH AS SAW CUTTING, CORING, GRINDING AND GROOVING AT LEAST WEEKLY TO ENSURE PROPER METHODS ARE EMPLOYED.
5. TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE MAINTAINED TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM FREEBOARD OF 4" FOR ABOVE GRADE FACILITIES AND 12" FOR BELOW GRADE FACILITIES. MAINTAINING TEMPORARY CONCRETE WASHOUT FACILITIES SHALL INCLUDE REMOVING AND DISPOSING OF HARDENED CONCRETE AND RETURNING THE FACILITIES TO A FUNCTIONAL CONDITION. HARDENED CONCRETE MATERIALS SHALL BE REMOVED AND DISPOSED OF IN CONFORMANCE WITH THE PROVISIONS IN SECTION 15-3.02, "REMOVAL METHODS", OF THE STANDARD SPECIFICATIONS.
6. EXISTING FACILITIES MUST BE CLEANED, OR NEW FACILITIES MUST BE CONSTRUCTED AND READY FOR USE ONCE THE WASHOUT IS 75% FULL.

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PROJECT:

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SHEET NAME:

EROSION & SEDIMENT CONTROL PLAN

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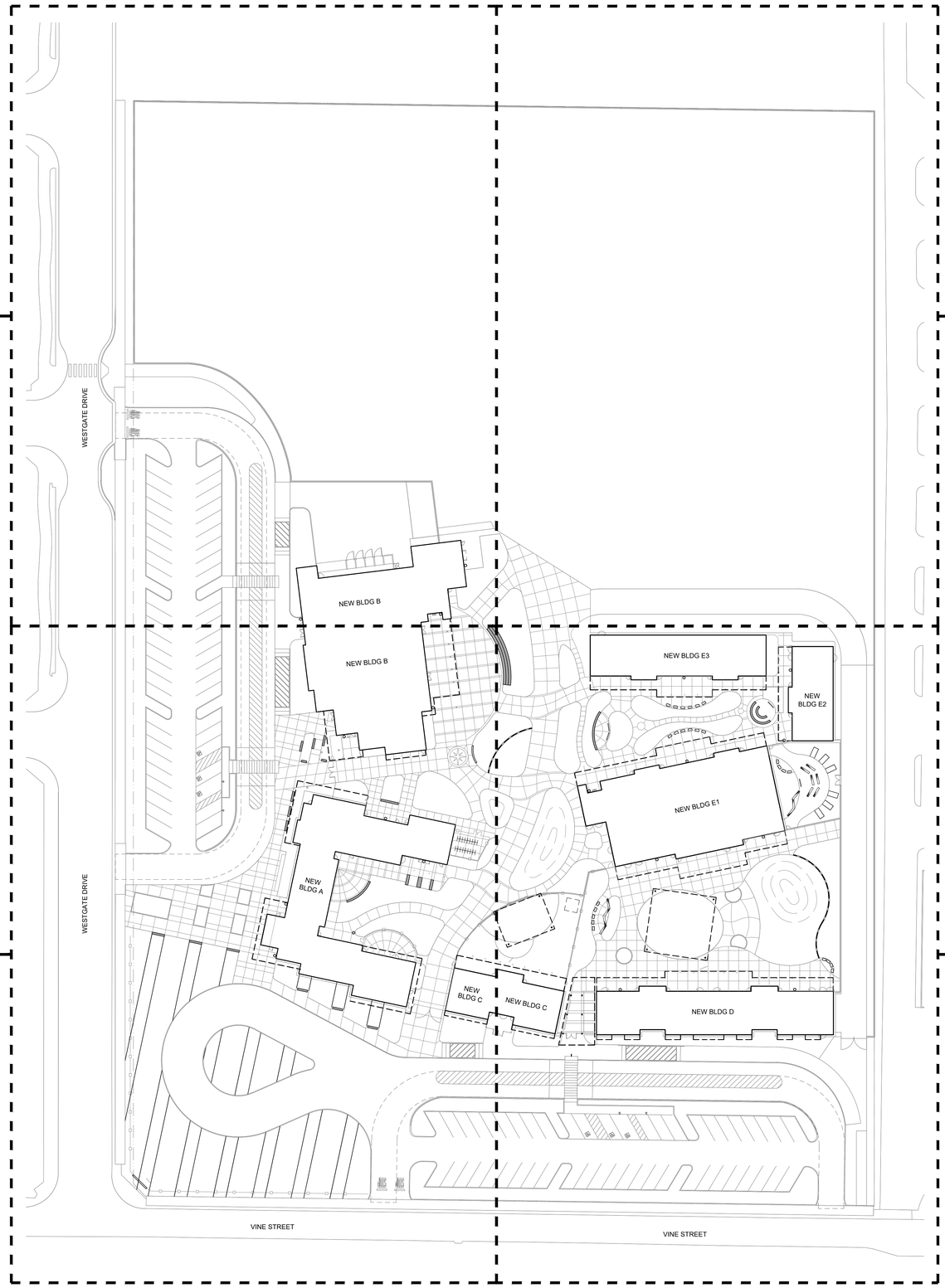

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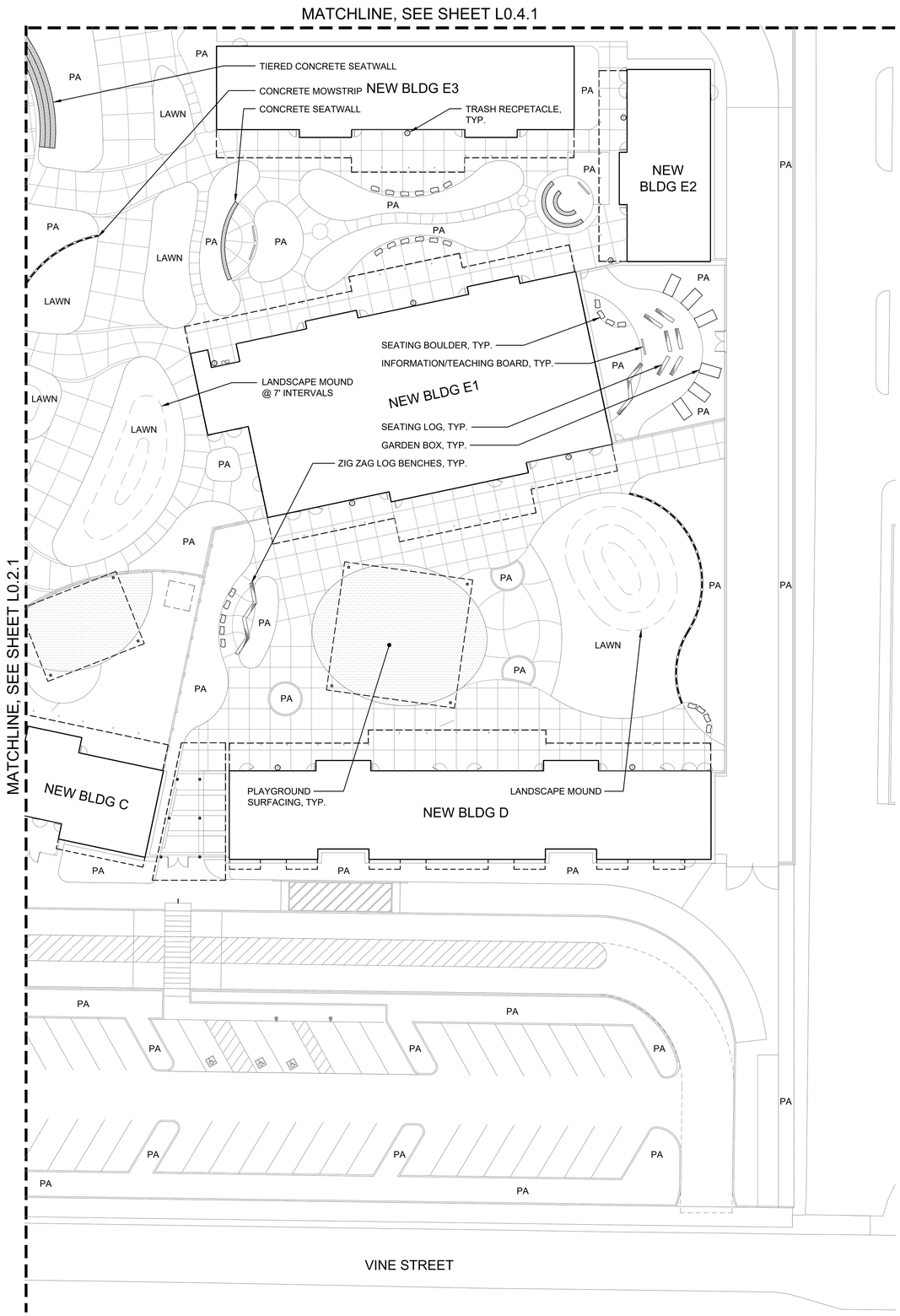
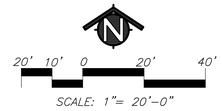


KEY	SITE LEGEND
PA	DENOTES PLANTER AREA
DG	DENOTES DECOMPOSED GRANITE
	PLAYGROUND SURFACING
	SEATING BOULDERS
	PRE-CAST CONCRETE SEATWALL - NOT ALL SYMBOLS SHOWN
	SEATING LOGS
	ZIG ZAG, LOG BENCHES
	INFORMATION/TEACHING BOARD
	GARDEN BOX
	BIKE RACKS
	TRASH RECEPTACLE
	CONCRETE MOWSTRIP
	REDWOOD HEADERBOARD
	TIERED CONCRETE SEATWALL NOT TO SCALE. SEE PLANS FOR ACTUAL SIZE



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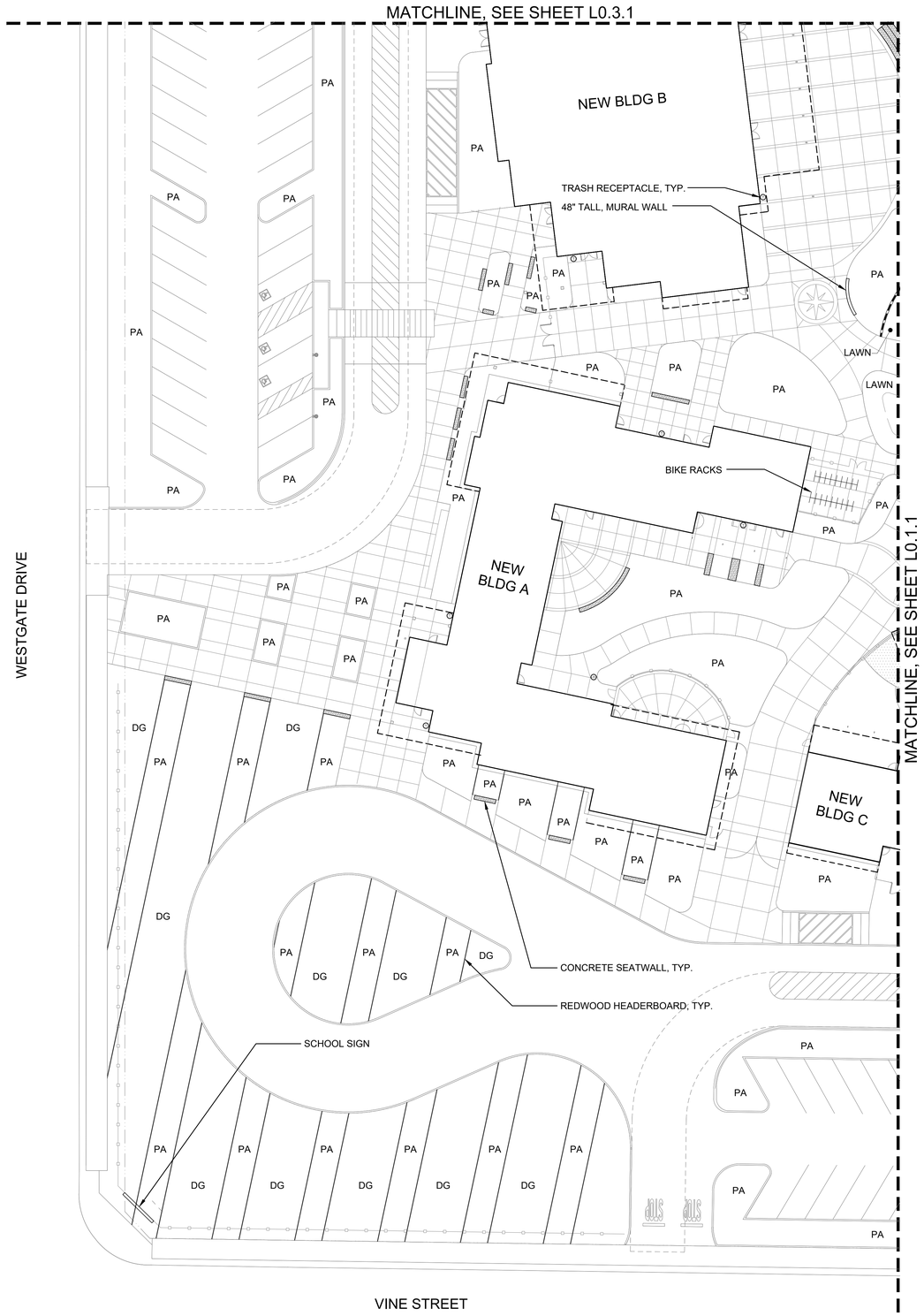

KEY / SITE LEGEND

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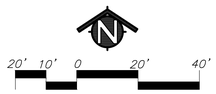

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KEYNOTES

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FACILITY:
SAMUEL M. GANTNER ELEMENTARY SCHOOL
1305 E VINE ST,
LODI, CA 95240

PROJECT:
SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1

SHEET NAME:
LANDSCAPE SITE PLAN

DESIGN DEVELOPMENT

DATE: **09/26/2025** | CLIENT PROJ NO:

SHEET:

L0.2.1

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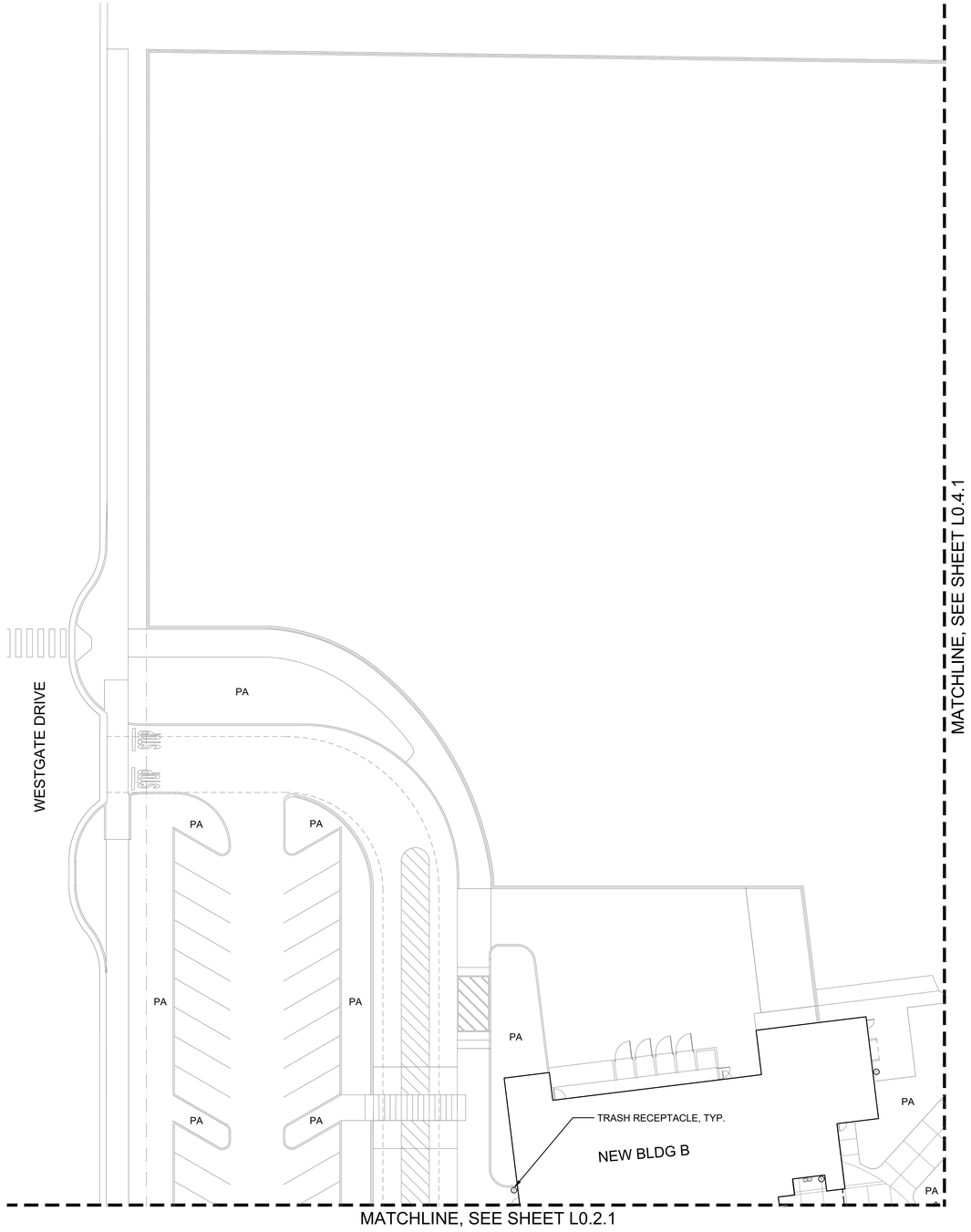
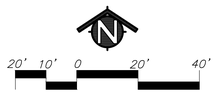


KEY	SITE LEGEND
PA	DENOTES PLANTER AREA
DG	DENOTES DECOMPOSED GRANITE
	PLAYGROUND SURFACING
	SEATING BOULDERS
	PRE-CAST CONCRETE SEATWALL - NOT ALL SYMBOLS SHOWN
	SEATING LOGS
	ZIG ZAG, LOG BENCHES
	INFORMATION/TEACHING BOARD
	GARDEN BOX
	BIKE RACKS
	TRASH RECEPTACLE
	CONCRETE MOWSTRIP
	REDWOOD HEADERBOARD
	TIERED CONCRETE SEATWALL NOT TO SCALE. SEE PLANS FOR ACTUAL SIZE



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MATCHLINE, SEE SHEET L0.3.1

PA

PA

PA

MATCHLINE, SEE SHEET L0.1.1

KEY	SITE LEGEND
PA	DENOTES PLANTER AREA
DG	DENOTES DECOMPOSED GRANITE
	PLAYGROUND SURFACING
	SEATING BOULDERS
	PRE-CAST CONCRETE SEATWALL - NOT ALL SYMBOLS SHOWN
	SEATING LOGS
	ZIG ZAG, LOG BENCHES
	INFORMATION/TEACHING BOARD
	GARDEN BOX
	BIKE RACKS
	TRASH RECEPTACLE
	CONCRETE MOWSTRIP
	REDWOOD HEADERBOARD
	TIERED CONCRETE SEATWALL NOT TO SCALE. SEE PLANS FOR ACTUAL SIZE

20' 10' 0 20' 40'

SCALE: 1"= 20'-0"

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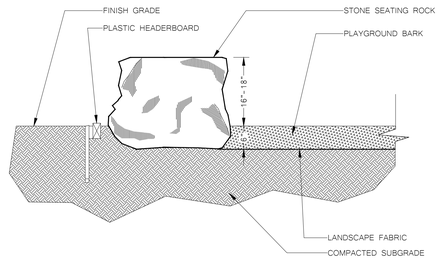
PLACEHOLDER

NOTES:
1. ALL ROCKS SHALL BE PROVIDED BY MONTANA ROCKWORK OR APPROVED EQUAL.
2. ROCK TO BE SET AT A DEPTH OF APPROXIMATELY 6". ROCK MAY BE PLACED LOWER TO ACHIEVE THE DESIRED SITTING HEIGHT
3. ACTUAL ROCK TYPE, SIZE AND COLOR SUBJECT TO APPROVAL BY LANDSCAPE ARCHITECT. CONTACT AND SCHEDULE MEETING FOR BOULDER SELECTION PRIOR TO PURCHASING.

QUANTITY	SIZE
0	24"HX48"LX30"D



SECTION

PLACEHOLDER

PLACEHOLDER

1	PLAYGROUND SURFACING	2	NATURAL SEATING STONE INSTALLATION DETAIL	3	PRE-CAST CONCRETE SEATWALL DETAIL	4	LOG BENCH DETAIL

PLACEHOLDER

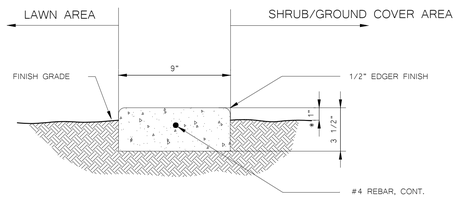
PLACEHOLDER

PLACEHOLDER

PLACEHOLDER

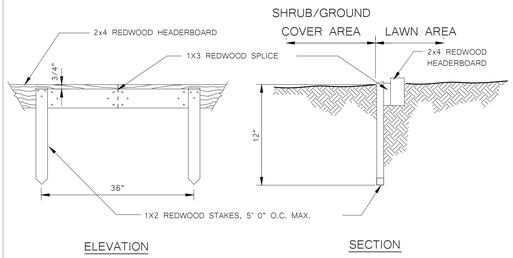
5	ZIG-ZAG, LOG BENCH DETAIL	6	INFORMATION/TEACHING BOARD DETAIL	7	4'X8' GARDEN BOX	8	BIKE RACK DETAIL

NOTES:
1. USE 1/2" FELT EXPANSION JOINT MATERIAL AT ALL CHANGES OF DIRECTIONS AND AT 10' O.C.
2. WHEN SURFACE DRAINAGE IS INTENDED TO FLOW TOWARD AND ACROSS MOWSTRIP, SOIL SURFACE SHALL BE FLUSH WITH TOP OF MOWSTRIP. UNLESS OTHERWISE NOTED SOIL SHALL BE 1" BELOW TOP OF MOWSTRIP.
3. ALL CONCRETE SHALL BE 5 SACK MIX, 2800 PSI AT 28 DAYS AFTER POUR.
4. FINISH SHALL BE FINE BROOM.



9	9" CONCRETE MOWSTRIP DETAIL	10	REDWOOD HEADERBOARD DETAIL				

NOTES:
1. WHEREVER POSSIBLE INSTALL STAKES AND SPLICES ON SHRUB/GROUNDCOVER SIDE.
2. ALL LUMBER TO BE REDWOOD CONSTRUCTION ROUGH (CALIFORNIA REDWOOD ASSOCIATION GRADING)
3. LAMINATE 1X4 BOARDS FOR CURVES. USE 1X3 REDWOOD AT SPLICES. STAGGER SPLICES.



ELEVATION SECTION

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PROJECT:
SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1

SHEET NAME:
LANDSCAPE SITE INSTALLATION DETAILS

DESIGN DEVELOPMENT

DATE: **09/26/2025** CLIENT PROJ NO:

SHEET:

L0.5.1

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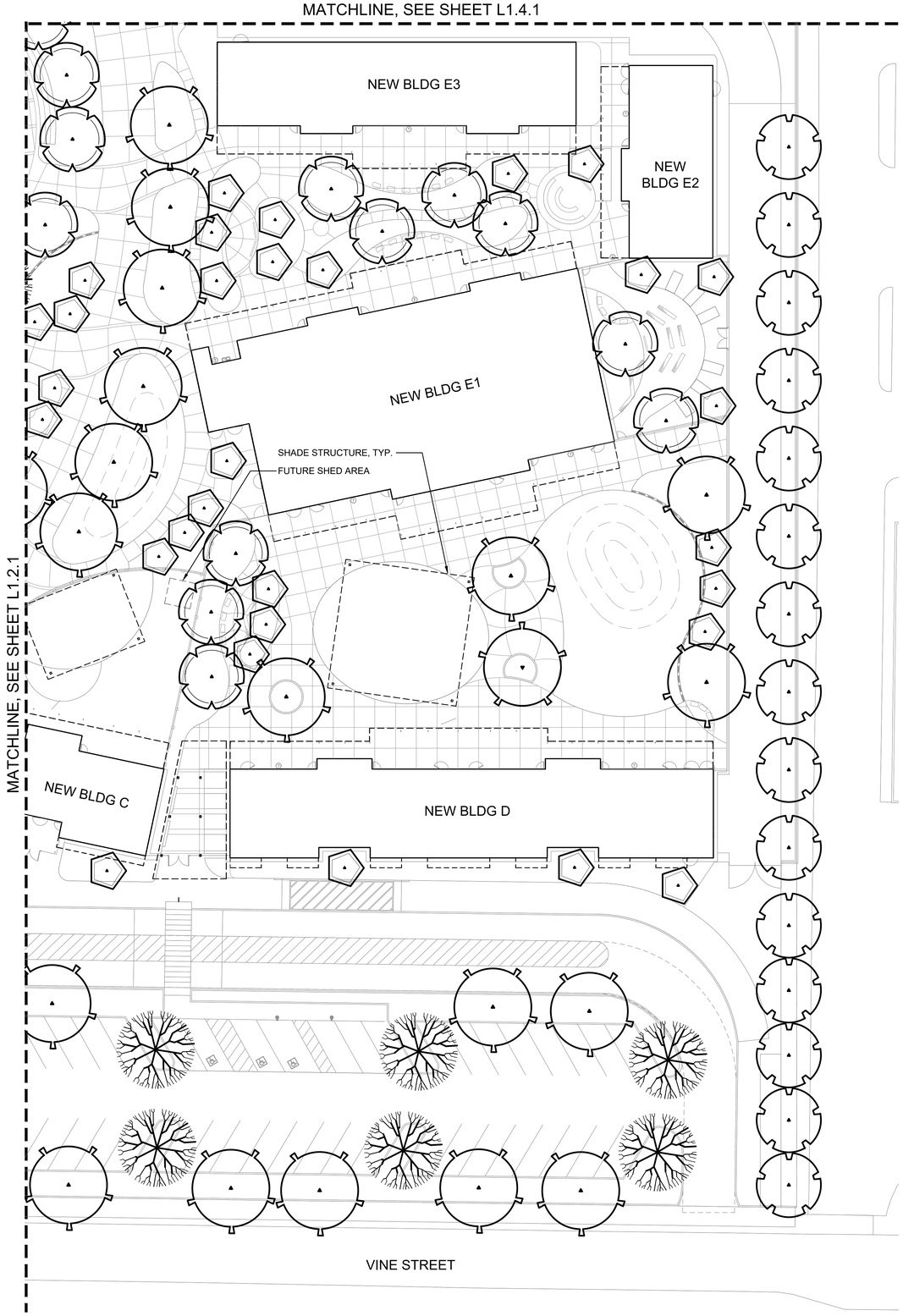

KEY | TREE LEGEND

TREES - NOT ALL SYMBOLS SHOWN

ROOT BARRIER, INSTALL WHERE SHOWN ON PLANS

PLANT QUANTITY

PLANT KEY

TREE MATERIAL LIST

SIZE	QTY.	KEY	BOTANICAL NAME ... COMMON NAME	WATER USE
			TREES:	
24" BOX	--	ACE.A.	ACER RUBRUM 'ARMSTRONG' ... ARMSTRONG MAPLE	MEDIUM
24" BOX	--	ACE.B.	ACER BUERGERIANUM ... TRIDENT MAPLE	MEDIUM
24" BOX	--	ACE.R.	ACER RUBRUM 'RED SUNSET' ... RED MAPLE	MEDIUM
24" BOX	--	CAL.	CALOCEDRUS DECURRENS ... INCENSE CEDAR	MEDIUM
24" BOX	--	CER.	CERCIS CANADENSIS 'OKLAHOMA' ... OKLAHOMA REDBUD	MEDIUM
24" BOX	--	LAG.	LAGERSTROEMIA INDICA ... CRAPE MYRTLE	LOW
24" BOX	--	PIS.	PISTACIA CHINENSIS 'KEITH DAVEY' ... CHINESE PISTACHE	LOW
24" BOX	--	PLA.	PLATANUS ACERIFOLIA 'BLOODGOOD' ... LONDON PLANE TREE	MEDIUM
24" BOX	--	PRU.	PRUNUS CAROLINIANA ... CAROLINA LAUREL CHERRY	LOW
24" BOX	--	ULM.	ULMUS WILSONIANA 'PROSPECTOR' ... PROSPECTOR ELM	LOW
24" BOX	--	VIT.	VITEX AGNUS-CASTUS ... CHASTE TREE	LOW
24" BOX	--	ZEL.	ZELKOVA SERRATA ... SAWLEAF ZELKOVA	MEDIUM

GENERAL LANDSCAPE REQUIREMENTS/NOTES

1. NO PLANTING SHALL BE STARTED UNTIL SPRINKLER IRRIGATION SYSTEM HAS BEEN TESTED BY CONTRACTOR IN PRESENCE OF OWNER'S REPRESENTATIVE AND NOTED DEFICIENCIES CORRECTED.
2. NO PLANTING SHALL BE STARTED UNTIL SOIL PREPARATION AND FINISH GRADING OPERATIONS HAVE BEEN COMPLETED AND APPROVED BY THE OWNER'S REPRESENTATIVE.
3. QUANTITIES SHOWN ON PLANT MATERIAL LIST ARE APPROXIMATE. PROVIDE QUANTITIES INDICATED ON LANDSCAPE PLAN.
4. PLANT MATERIAL IS SUBJECT TO APPROVAL OF OWNER'S REPRESENTATIVE.
5. SEE SHEET L4.1 FOR PLANTING INSTALLATION DETAILS.

ENVIRONMENTAL REQUIREMENTS:

GENERAL: PROCEED WITH WORK IN ORDERLY AND TIMELY MANNER TO COMPLETE INSTALLATION OF LANDSCAPING WITHIN CONTRACT LIMITS.

PROTECTION:

EXISTING CONSTRUCTION: EXECUTE WORK IN AN ORDERLY AND CAREFUL MANNER TO PROTECT NEW CONCRETE WALKS, WORK OF OTHER TRADES, AND OTHER IMPROVEMENTS.

EXISTING UTILITIES: DETERMINE LOCATION OF UNDERGROUND UTILITIES AND PERFORM WORK IN A MANNER WHICH WILL AVOID POSSIBLE DAMAGE. HAND EXCAVATE, AS REQUIRED, TO MINIMIZE POSSIBILITY OF DAMAGE TO UNDERGROUND UTILITIES. MAINTAIN GRADE STAKES SET BY OTHERS UNTIL REMOVAL IS MUTUALLY AGREED UPON BY ALL PARTIES CONCERNED. BE RESPONSIBLE FOR PROTECTION OF EXISTING UTILITIES WITHIN CONSTRUCTION AREA; REPAIR DAMAGE TO UTILITIES THAT OCCUR AS A RESULT OF OPERATIONS OF THIS WORK.

LANDSCAPING: PROTECT LANDSCAPE WORK AND MATERIALS FROM DAMAGE DUE TO LANDSCAPE OPERATIONS, OPERATIONS BY OTHER CONTRACTORS AND TRADES AND TRESPASSERS. MAINTAIN PROTECTION DURING INSTALLATION AND MAINTENANCE PERIODS. TREAT, REPAIR OR REPLACE DAMAGED LANDSCAPE WORK AS DIRECTED AT NO ADDITIONAL COST TO CONTRACT.

ADVERSE CONDITIONS: WHEN CONDITIONS DETRIMENTAL TO SOD OR PLANT GROWTH ARE ENCOUNTERED, SUCH AS RUBBLE FILL, ADVERSE DRAINAGE CONDITIONS, OR OBSTRUCTIONS, NOTIFY OWNER'S REPRESENTATIVE BEFORE STARTING WORK.

PLANTING AND TURF INSTALLATION SEASONS AND CONDITIONS

NO WORK SHALL BE DONE WHEN GROUND IS FROZEN, SNOW COVERED, TOO WET OR IN AN OTHERWISE UNSUITABLE CONDITION FOR AMENDING SOIL, FINISH GRADING OR PLANTING.

SOIL TESTING/SOIL IMPROVEMENT:

SEE SPECIFICATIONS 32 90 00, SECTION 3.02 SOIL TESTING AND SECTION 3.03 PREPARATION.

SOIL PERCOLATION

EXCAVATE 10 PLANTING PITS IN RANDOM AREAS OF SITE. FILL EXCAVATED PLANTING PITS WITH WATER TO 1/2 DEPTH OF PIT. PITS SHOULD DRAIN WITHIN 4 HOURS. IF PLANTING PITS DO NOT DRAIN, NOTIFY INSPECTOR IMMEDIATELY. PLANTING SHALL NOT BE STARTED UNTIL OWNER'S REPRESENTATIVE HAS RESOLVED A METHOD TO REMEDY DRAINAGE ISSUE.

PLANT MATERIAL STANDARDS

PLANTS SHALL BE IN ACCORDANCE WITH AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) ANSI Z60.1- AMERICAN STANDARD FOR NURSERY STOCK, EXCEPT AS OTHERWISE STATED IN SPECIFICATIONS OR SHOWN ON DRAWINGS. WHERE DRAWINGS OR SPECIFICATIONS ARE IN CONFLICT WITH ANSI Z60.1, DRAWINGS AND SPECIFICATIONS SHALL PREVAIL. PRUNE, THIN OUT AND SHAPE TREES IN ACCORDANCE WITH ANSI STANDARD HORTICULTURAL PRACTICE. PRUNE TREES TO RETAIN REQUIRED HEIGHT AND SPREAD, UNLESS OTHERWISE DIRECTED BY LANDSCAPE ARCHITECT. DO NOT CUT TREE LEADERS, AND REMOVE ONLY INJURED OR DEAD BRANCHES FROM FLOWERING TREES.

EXISTING LANDSCAPE AND SPRINKLER IRRIGATION SYSTEM

WORK LIMITS OF THIS PROJECT EXTEND INTO AREAS THAT WERE PREVIOUSLY DEVELOPED UNDER OTHER CONTRACTS. PRIOR TO START OF WORK, CONTRACTOR SHALL MEET WITH OWNER'S REPRESENTATIVE TO LOCATE ALL CONNECTIONS CALLED FOR ON DRAWINGS. WORK LIMITS/FENCING SHALL BE LAID OUT BY CONTRACTOR AND VERIFIED BY OWNER'S REPRESENTATIVE. FENCE TO BE INSTALLED AND IRRIGATION SYSTEM SHALL BE TESTED WITH CONTRACTOR, INSPECTOR, AND OWNER'S REPRESENTATIVE PRESENT. DEFICIENCIES SHALL BE NOTED AT THIS TIME AND ARE THE RESPONSIBILITY OF OWNER. AT COMPLETION OF WORK, SYSTEM WILL AGAIN BE TESTED. DEFICIENCIES NOTED AT THIS TIME THAT WERE NOT NOTED PREVIOUSLY WILL BE RESPONSIBILITY OF CONTRACTOR. EXISTING LANDSCAPE THAT HAS BEEN DAMAGED DUE TO CONSTRUCTION SHALL BE RESTORED TO ORIGINAL CONDITION BY CONTRACTOR AT NO ADDITIONAL COST TO OWNER. PRIOR TO MAKING ANY CONNECTION TO MAIN LINE, CONTRACTOR SHALL NOTIFY OWNER 1 WEEK IN ADVANCE SO ADJUSTMENTS TO EXISTING WATERING PROGRAMS CAN BE MADE.

20' 10' 0 20' 40'

SCALE: 1"= 20'-0"

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1305 E VINE ST,
LODI, CA 95240

PROJECT:
SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1

SHEET NAME:
TREE PLANTING PLAN

DESIGN DEVELOPMENT

DATE: **09/26/2025** | CLIENT PROJ NO:

SHEET:

L1.1.1

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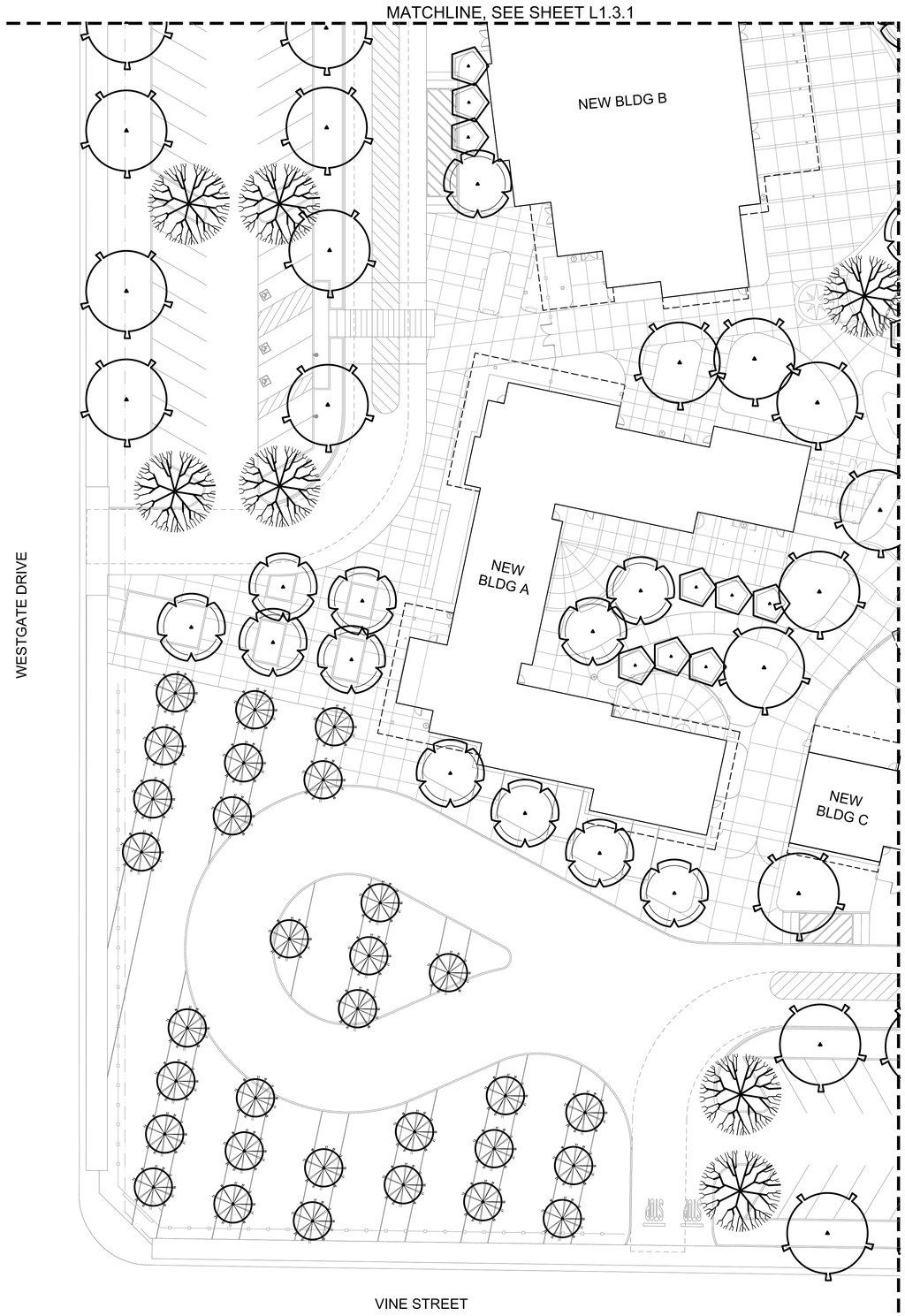

KEY | TREE LEGEND

TREES - NOT ALL SYMBOLS SHOWN

ROOT BARRIER, INSTALL WHERE SHOWN ON PLANS

7-AAA PLANT QUANTITY / PLANT KEY

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24" BOX	--	ACE.A.	ACER RUBRUM 'ARMSTRONG' ... ARMSTRONG MAPLE	MEDIUM
24" BOX	--	ACE.B.	ACER BUERGERIANUM ... TRIDENT MAPLE	MEDIUM
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24" BOX	--	CER.	CERCIS CANADENSIS 'OKLAHOMA' ... OKLAHOMA REDBUD	MEDIUM
24" BOX	--	LAG.	LAGERSTROEMIA INDICA ... CRAPE MYRTLE	LOW
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24" BOX	--	PLA.	PLATANUS ACERIFOLIA 'BLOODGOOD' ... LONDON PLANE TREE	MEDIUM
24" BOX	--	PRU.	PRUNUS CAROLINIANA ... CAROLINA LAUREL CHERRY	LOW
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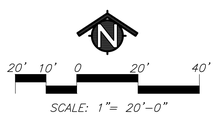

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2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

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Δ DESCRIPTION DATE

KEYNOTES

NOTES

25-31

MTW group
LANDSCAPE ARCHITECTURE AND PLANNING
2707 K Street, Suite 201
Sacramento, CA 95816
916 369-3990

LICENSED LANDSCAPE ARCHITECT 5433 CALIFORNIA

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FACILITY:

SAMUEL M. GANTNER ELEMENTARY SCHOOL
1305 E VINE ST,
LODI, CA 95240

PROJECT:

SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1

SHEET NAME:

TREE PLANTING PLAN

DESIGN DEVELOPMENT

DATE: **09/26/2025** CLIENT PROJ NO:

SHEET:

L1.2.1

Autodesk Docs://3431010000 LODI USD SAMUEL M. GANTNER ES R24/3431010000-A-LUSD-GANTNER ES-SITE.rvt
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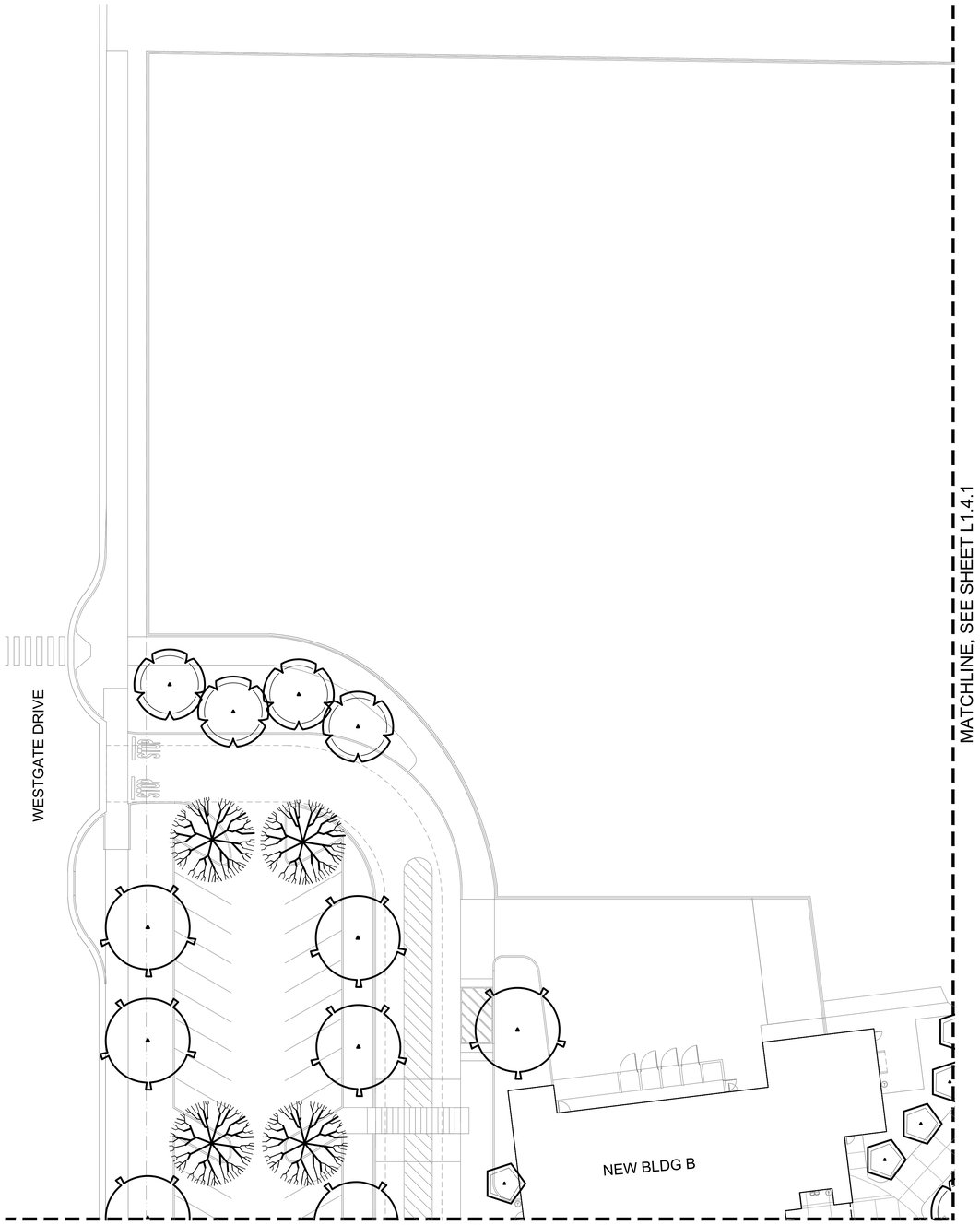

MATCHLINE, SEE SHEET L1.4.1

KEY | TREE LEGEND

TREES - NOT ALL SYMBOLS SHOWN

ROOT BARRIER, INSTALL WHERE SHOWN ON PLANS

7-AAA PLANT QUANTITY

PLANT KEY

TREE MATERIAL LIST

SIZE	QTY.	KEY	BOTANICAL NAME ... COMMON NAME	WATER USE
			TREES:	
24" BOX	--	ACE.A.	ACER RUBRUM 'ARMSTRONG' ... ARMSTRONG MAPLE	MEDIUM
24" BOX	--	ACE.B.	ACER BUERGERIANUM ... TRIDENT MAPLE	MEDIUM
24" BOX	--	ACE.R.	ACER RUBRUM 'RED SUNSET' ... RED MAPLE	MEDIUM
24" BOX	--	CAL.	CALOCEDRUS DECURRENS ... INCENSE CEDAR	MEDIUM
24" BOX	--	CER.	CERCIS CANADENSIS 'OKLAHOMA' ... OKLAHOMA REDBUD	MEDIUM
24" BOX	--	LAG.	LAGERSTROEMIA INDICA ... CRAPE MYRTLE	LOW
24" BOX	--	PIS.	PISTACIA CHINENSIS 'KEITH DAVEY' ... CHINESE PISTACHE	LOW
24" BOX	--	PLA.	PLATANUS ACERIFOLIA 'BLOODGOOD' ... LONDON PLANE TREE	MEDIUM
24" BOX	--	PRU.	PRUNUS CAROLINIANA ... CAROLINA LAUREL CHERRY	LOW
24" BOX	--	ULM.	ULMUS WILSONIANA 'PROSPECTOR' ... PROSPECTOR ELM	LOW
24" BOX	--	VIT.	VITEX AGNUS-CASTUS ... CHASTE TREE	LOW
24" BOX	--	ZEL.	ZELKOVA SERRATA ... SAWLEAF ZELKOVA	MEDIUM

GENERAL LANDSCAPE REQUIREMENTS/NOTES

1. NO PLANTING SHALL BE STARTED UNTIL SPRINKLER IRRIGATION SYSTEM HAS BEEN TESTED BY CONTRACTOR IN PRESENCE OF OWNER'S REPRESENTATIVE AND NOTED DEFICIENCIES CORRECTED.
2. NO PLANTING SHALL BE STARTED UNTIL SOIL PREPARATION AND FINISH GRADING OPERATIONS HAVE BEEN COMPLETED AND APPROVED BY THE OWNER'S REPRESENTATIVE.
3. QUANTITIES SHOWN ON PLANT MATERIAL LIST ARE APPROXIMATE. PROVIDE QUANTITIES INDICATED ON LANDSCAPE PLAN.
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20' 10' 0 20' 40'

SCALE: 1"= 20'-0"

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DATE: **09/26/2025** | CLIENT PROJ NO:

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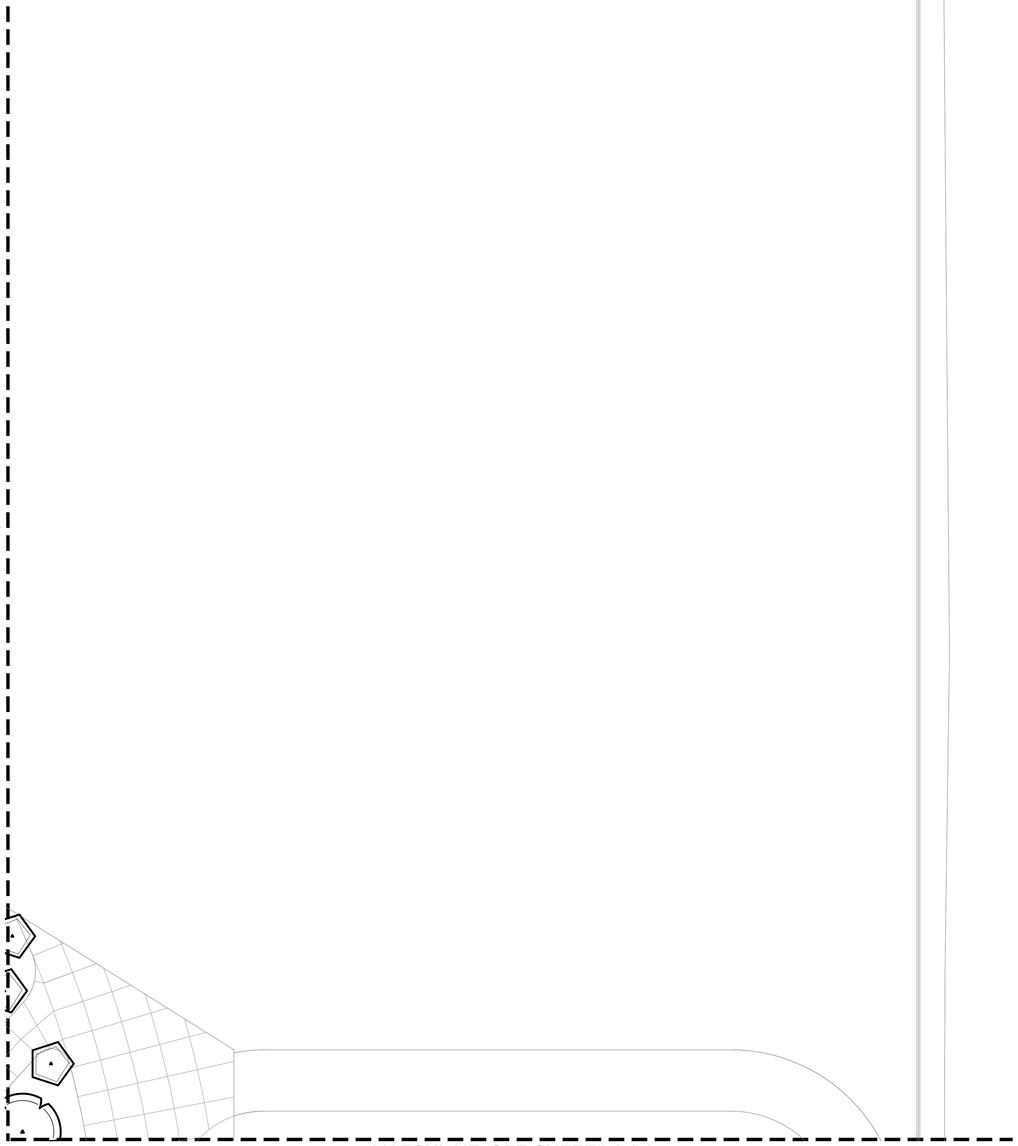

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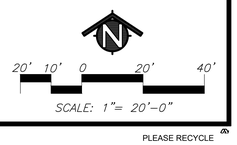

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LICENSED LANDSCAPE ARCHITECT — MEGAN VOLPE — 6482 — 12/31/2027 — STATE OF CALIFORNIA

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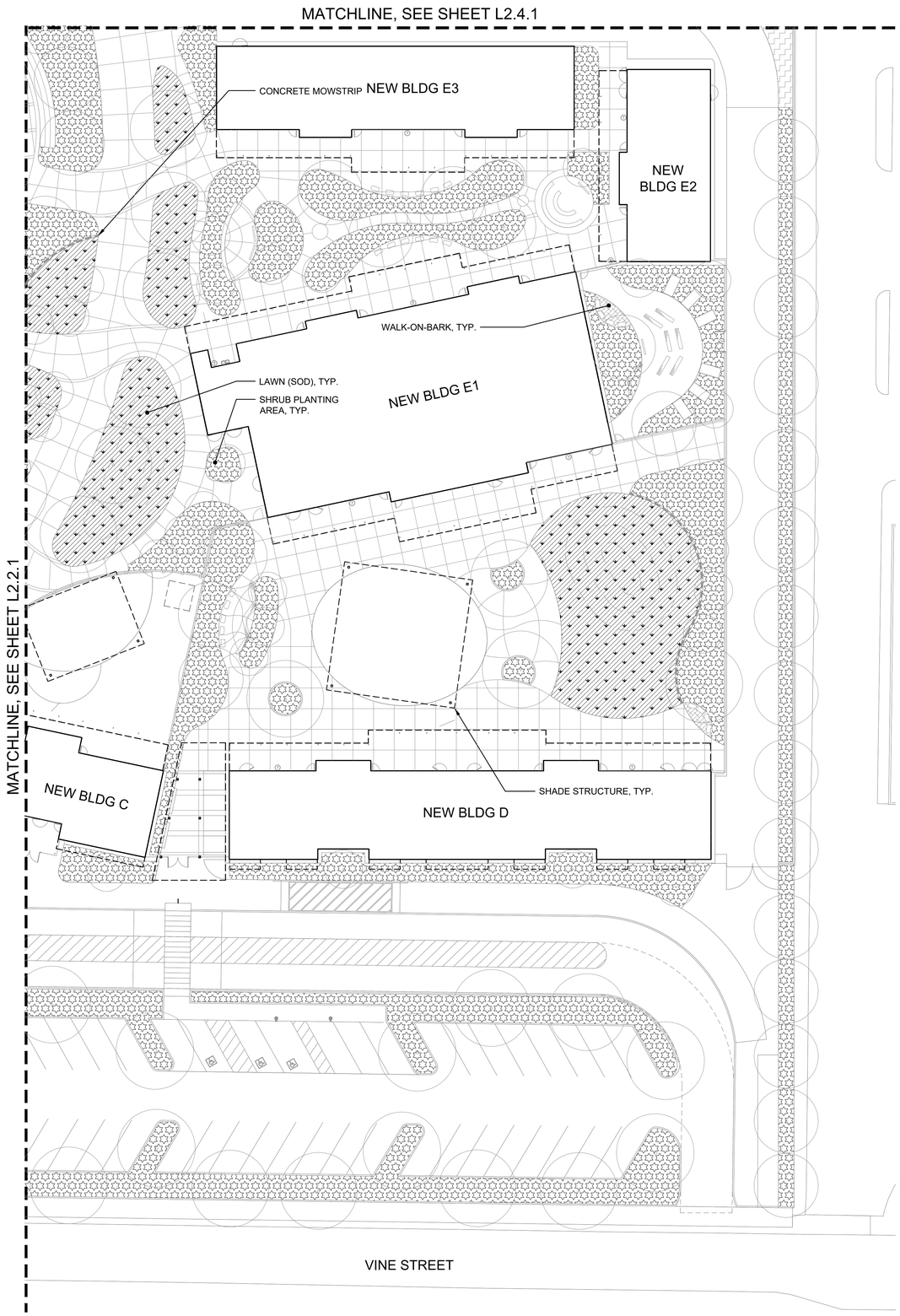

KEY — LANDSCAPE LEGEND

- TREE OUTLINE FOR REFERENCE
- 7 — PLANT QUANTITY
- AAA — PLANT KEY
- SHRUB PLANTING AREA
- LAWN (SOD)
- EXISTING LANDSCAPE AND SPRINKLER AREAS TO REMAIN
- DECOMPOSED GRANITE
- WALK ON BARK

PLANT MATERIAL LIST

WATER USE	SIZE	QUANTITY	KEY	BOTANICAL NAME ... COMMON NAME
				SHRUBS:
LOW	5 G.C.	--	ANI.	ANIGOZANTHOS FLAVIDUS ... KANGAROO PAW
MEDIUM	5 G.C.	--	AZA.	AZALEA 'ROBLEU' PP15862 ... ENCORE AUTUMN CHIFFON AZALEA
LOW	5 G.C.	--	BUL.	BULBINE FRUTESCENS 'HALLMARK' ... HALLMARK BULBINE
LOW	5 G.C.	--	CAL.	CALLISTEMON VIMINALIS 'LITTLE JOHN' ... DWARF BOTTLE BRUSH
LOW	5 G.C.	--	CEA.	CEANOTHUS 'VALLEY VIOLET ... VALLEY VIOLET CEANOTHUS
LOW	3 G.C.	--	CHO.	CHONDROPETALUM TECTORUM ... CAPE RUSH
LOW	15 G.C.	--	ERI.	ERIGERON GLAUCUS ... SEASIDE DAISY
LOW	15 G.C.	--	EUO.	EUONYMUS JAPONICUS 'AUREOVARIEGATUS' ... GOLD SPOT EUONYMUS
LOW	15 G.C.	--	GAR.	GARDENIA AUGUSTA 'MYSTERY' ... GARDENIA
LOW	5 G.C.	--	GRE.	GREVILLEA 'NOELLII' ... GREVILLEA
LOW	3 G.C.	--	LOM.B.	LOMANDRA LONGIFOLIA 'BREEZE' ... BREEZE MAT RUSH
MEDIUM	5 G.C.	--	LOR.P.	LOROPETALUM CHINENSE 'PURPLE DAYDREAM' ... DWARF LOROPETALUM
MEDIUM	5 G.C.	--	LOR.R.	LOROPETALUM CHINENSE 'RAZZLEBERRY' ... FRINGE FLOWER
LOW	5 G.C.	--	MAH.	MAHONIA 'SOFT CARESS' ... SOFT CARESS MAHONIA
LOW	5 G.C.	--	MUH.	MUHLENBERGIA RIGENS ... DEER GRASS
LOW	5 G.C.	--	PHO.	PHORMIUM TENAX 'RUBRUM' ... NEW ZEALAND FLAX
LOW	5 G.C.	--	PRU.	PRUNUS CAROLINIANA 'BRIGHT' N TIGHT' ... CAROLINA LAUREL CHERRY
LOW	5 G.C.	--	RHA.	RHAPHIOLEPIS UMBELLATA 'MINOR' ... YEDDA HAWTHORN
LOW	1 G.C.	--	TEU.	TEUCRIUM CHAMAEDRYS ... WALL GERMANDER
				GROUNDCOVER:
LOW	5 G.C.	48" O.C.	LAN.	LANTANA 'GOLD RUSH' YELLOW
LOW	5 G.C.	36" O.C.	LOM.P.	LOMANDRA 'PLATINUM BEAUTY' ... PLATINUM BEAUTY LOMANDRA
LOW	5 G.C.	48" O.C.	MYO.	MYOPORUM PARVIFOLIUM ... MYOPORUM
				BIO-SWALE:
LOW	1 G.C.	30" O.C.	ELY.	ELYMUS CONDENSATUS 'CANYON PRINCE' ... WILD RYE
LOW	1 G.C.	18" O.C.	CAR.	CAREX TESTACEA 'PRAIRIE FIRE' ... PRAIRIE FIRE CAREX

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MTW group
LANDSCAPE ARCHITECTURE AND PLANNING
2707 K Street, Suite 201
Sacramento, CA 95816
916 369-3990

LICENSED LANDSCAPE ARCHITECT BRIAN MILLER 4/30/27 CALIFORNIA

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FACILITY:

SAMUEL M. GANTNER ELEMENTARY SCHOOL
1305 E VINE ST,
LODI, CA 95240

PROJECT:

SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1

SHEET NAME:

SHRUB PLANTING PLAN

DESIGN DEVELOPMENT

DATE: **09/26/2025** | CLIENT PROJ NO:

SHEET:

L2.1.1

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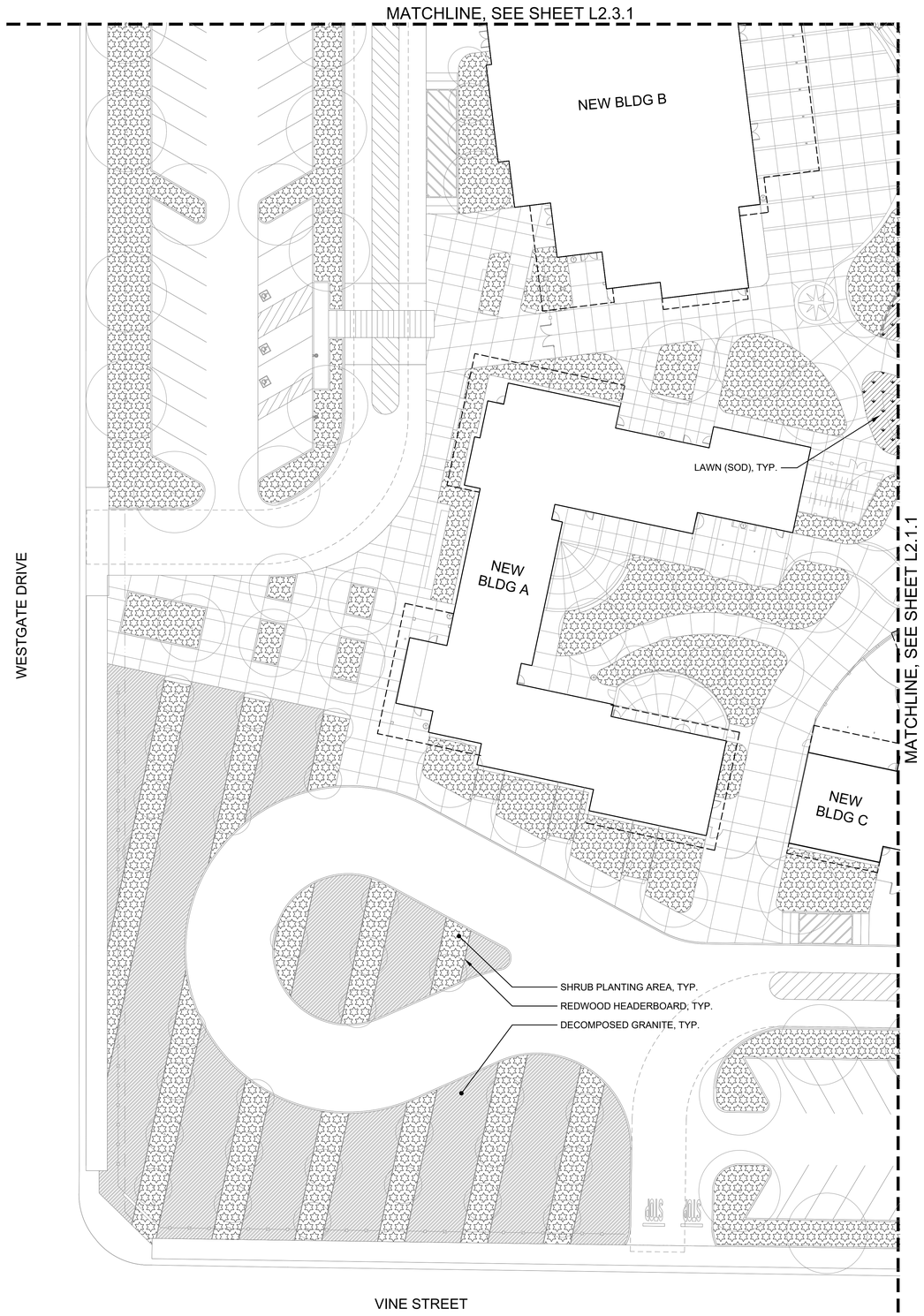

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- SHRUB PLANTING AREA
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- EXISTING LANDSCAPE AND SPRINKLER AREAS TO REMAIN
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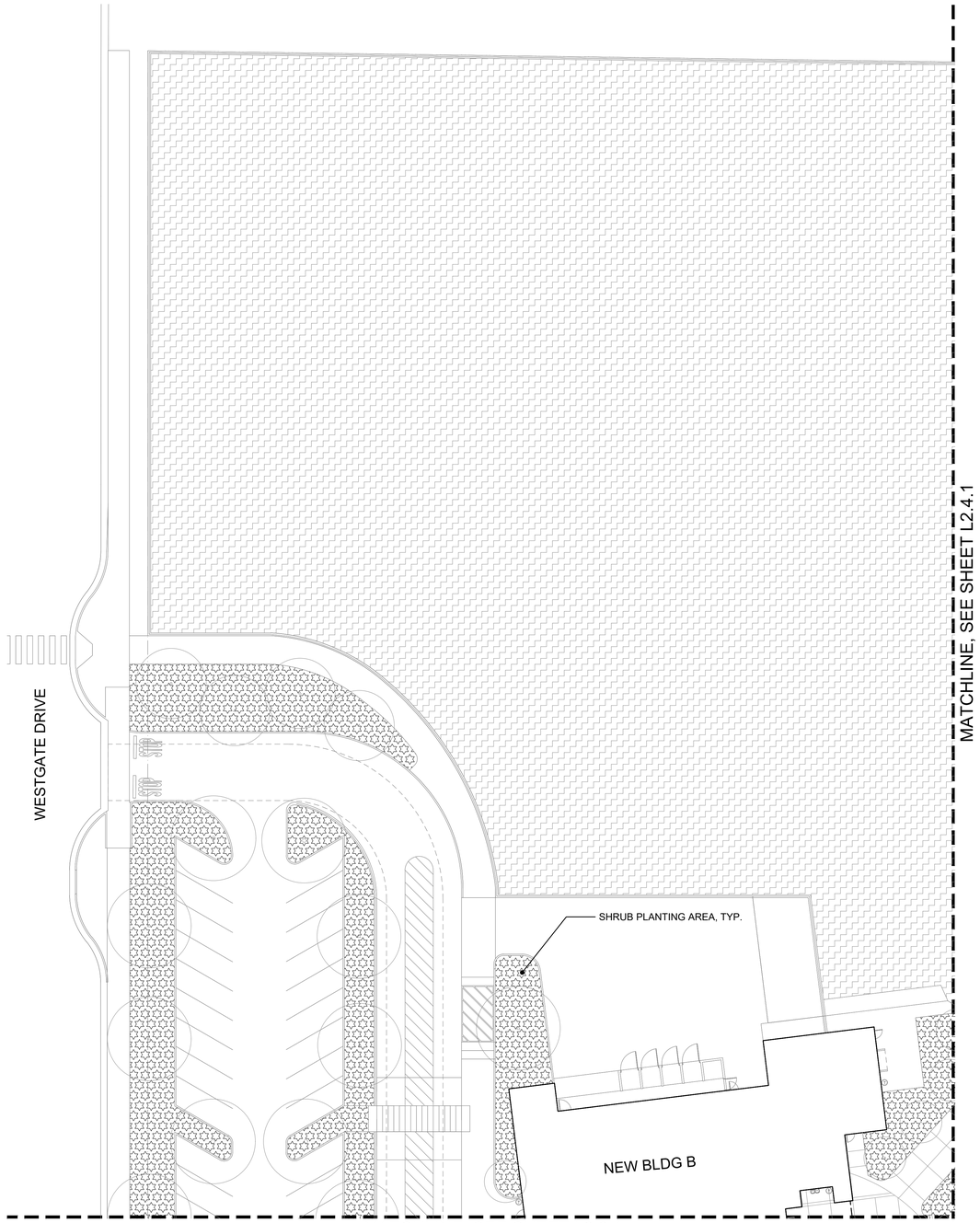

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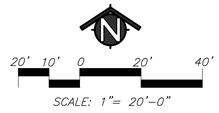

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LICENSED LANDSCAPE ARCHITECT — MICHAEL T. WOLFE — 3423 — 12/31/2027 — STATE OF CALIFORNIA

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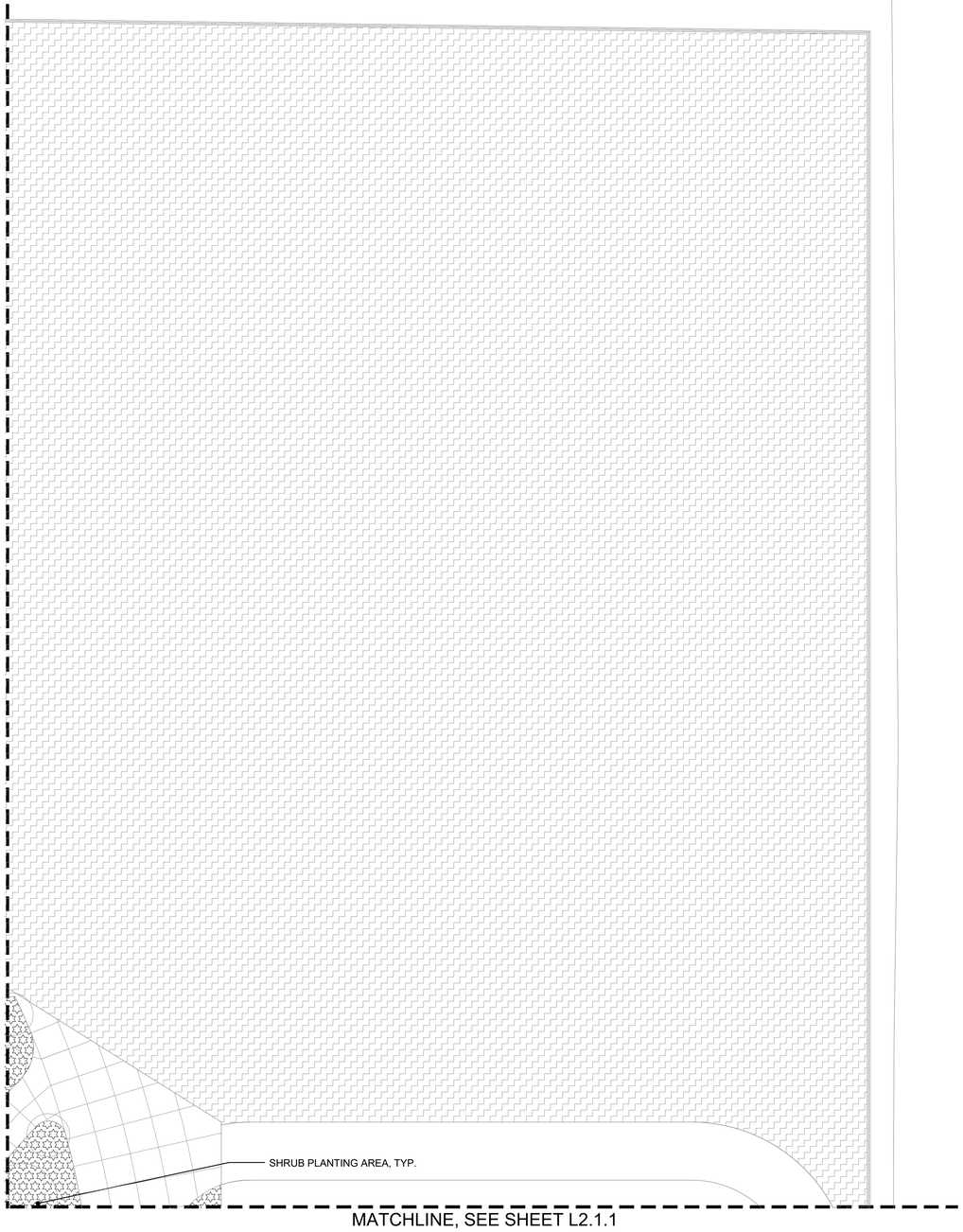

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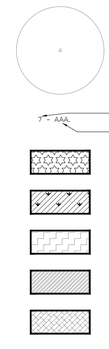

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LOW	5 G.C.	--	PRU.	PRUNUS CAROLINIANA 'BRIGHT' N TIGHT' ... CAROLINA LAUREL CHERRY
LOW	5 G.C.	--	RHA.	RHAPHIOLEPIS UMBELLATA 'MINOR' ... YEDDA HAWTHORN
LOW	1 G.C.	--	TEU.	TEUCRIUM CHAMAEDRYS ... WALL GERMANDER
				GROUNDCOVER:
LOW	5 G.C.	48" O.C.	LAN.	LANTANA 'GOLD RUSH' ... YELLOW
LOW	5 G.C.	36" O.C.	LOM.P.	LOMANDRA 'PLATINUM BEAUTY' ... PLATINUM BEAUTY LOMANDRA
LOW	5 G.C.	48" O.C.	MYO.	MYOPORUM PARVIFOLIUM ... MYOPORUM
				BIO-SWALE:
LOW	1 G.C.	30" O.C.	ELY.	ELYMUS CONDENSATUS 'CANYON PRINCE' ... WILD RYE
LOW	1 G.C.	18" O.C.	CAR.	CAREX TESTACEA 'PRAIRIE FIRE' ... PRAIRIE FIRE CAREX

GENERAL LANDSCAPE REQUIREMENTS/NOTES

1. NO PLANTING SHALL BE STARTED UNTIL SPRINKLER IRRIGATION SYSTEM HAS BEEN TESTED BY CONTRACTOR IN PRESENCE OF OWNER'S REPRESENTATIVE AND NOTED DEFICIENCIES CORRECTED.
2. NO PLANTING SHALL BE STARTED UNTIL SOIL PREPARATION AND FINISH GRADING OPERATIONS HAVE BEEN COMPLETED AND APPROVED BY THE OWNER'S REPRESENTATIVE.
3. QUANTITIES SHOWN ON PLANT MATERIAL LIST ARE APPROXIMATE. PROVIDE QUANTITIES INDICATED ON LANDSCAPE PLAN.
4. PLANT MATERIAL IS SUBJECT TO APPROVAL OF OWNER'S REPRESENTATIVE.
5. SEE SHEET L4.1 FOR PLANTING INSTALLATION DETAILS.

ENVIRONMENTAL REQUIREMENTS:

GENERAL: PROCEED WITH WORK IN ORDERLY AND TIMELY MANNER TO COMPLETE INSTALLATION OF LANDSCAPING WITHIN CONTRACT LIMITS.

PROTECTION:

EXISTING CONSTRUCTION: EXECUTE WORK IN AN ORDERLY AND CAREFUL MANNER TO PROTECT NEW CONCRETE WALKS, WORK OF OTHER TRADES, AND OTHER IMPROVEMENTS.

EXISTING UTILITIES: DETERMINE LOCATION OF UNDERGROUND UTILITIES AND PERFORM WORK IN A MANNER WHICH WILL AVOID POSSIBLE DAMAGE. HAND EXCAVATE, AS REQUIRED, TO MINIMIZE POSSIBILITY OF DAMAGE TO UNDERGROUND UTILITIES. MAINTAIN GRADE STAKES SET BY OTHERS UNTIL REMOVAL IS MUTUALLY AGREED UPON BY ALL PARTIES CONCERNED. BE RESPONSIBLE FOR PROTECTION OF EXISTING UTILITIES WITHIN CONSTRUCTION AREA; REPAIR DAMAGE TO UTILITIES THAT OCCUR AS A RESULT OF OPERATIONS OF THIS WORK.

LANDSCAPING: PROTECT LANDSCAPE WORK AND MATERIALS FROM DAMAGE DUE TO LANDSCAPE OPERATIONS, OPERATIONS BY OTHER CONTRACTORS AND TRADES AND TRESPASSERS. MAINTAIN PROTECTION DURING INSTALLATION AND MAINTENANCE PERIODS. TREAT, REPAIR OR REPLACE DAMAGED LANDSCAPE WORK AS DIRECTED AT NO ADDITIONAL COST TO CONTRACT.

ADVERSE CONDITIONS: WHEN CONDITIONS DETRIMENTAL TO SOD OR PLANT GROWTH ARE ENCOUNTERED, SUCH AS RUBBLE FILL, ADVERSE DRAINAGE CONDITIONS, OR OBSTRUCTIONS, NOTIFY OWNER'S REPRESENTATIVE BEFORE STARTING WORK.

PLANTING AND TURF INSTALLATION SEASONS AND CONDITIONS

NO WORK SHALL BE DONE WHEN GROUND IS FROZEN, SNOW COVERED, TOO WET OR IN AN OTHERWISE UNSUITABLE CONDITION FOR AMENDING SOIL, FINISH GRADING OR PLANTING.

SOIL TESTING/SOIL IMPROVEMENT:

SEE SPECIFICATIONS 32 90 00, SECTION 3.02 SOIL TESTING AND SECTION 3.03 PREPARATION.

SOIL PERCOLATION

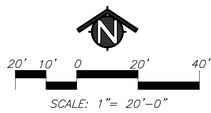
EXCAVATE 10 PLANTING PITS IN RANDOM AREAS OF SITE. FILL EXCAVATED PLANTING PITS WITH WATER TO 1/2 DEPTH OF PIT. PITS SHOULD DRAIN WITHIN 4 HOURS. IF PLANTING PITS DO NOT DRAIN, NOTIFY INSPECTOR IMMEDIATELY. PLANTING SHALL NOT BE STARTED UNTIL OWNER'S REPRESENTATIVE HAS RESOLVED A METHOD TO REMEDY DRAINAGE ISSUE.

PLANT MATERIAL STANDARDS

PLANTS SHALL BE IN ACCORDANCE WITH AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) ANSI Z60.1- AMERICAN STANDARD FOR NURSERY STOCK, EXCEPT AS OTHERWISE STATED IN SPECIFICATIONS OR SHOWN ON DRAWINGS. WHERE DRAWINGS OR SPECIFICATIONS ARE IN CONFLICT WITH ANSI Z60.1, DRAWINGS AND SPECIFICATIONS SHALL PREVAIL. PRUNE, THIN OUT AND SHAPE TREES IN ACCORDANCE WITH ANSI STANDARD HORTICULTURAL PRACTICE. PRUNE TREES TO RETAIN REQUIRED HEIGHT AND SPREAD, UNLESS OTHERWISE DIRECTED BY LANDSCAPE ARCHITECT. DO NOT CUT TREE LEADERS, AND REMOVE ONLY INJURED OR DEAD BRANCHES FROM FLOWERING TREES.

EXISTING LANDSCAPE AND SPRINKLER IRRIGATION SYSTEM

WORK LIMITS OF THIS PROJECT EXTEND INTO AREAS THAT WERE PREVIOUSLY DEVELOPED UNDER OTHER CONTRACTS. PRIOR TO START OF WORK, CONTRACTOR SHALL MEET WITH OWNER'S REPRESENTATIVE TO LOCATE ALL CONNECTIONS CALLED FOR ON DRAWINGS. WORK LIMITS/FENCING SHALL BE LAID OUT BY CONTRACTOR AND VERIFIED BY OWNER'S REPRESENTATIVE. FENCE TO BE INSTALLED AND IRRIGATION SYSTEM SHALL BE TESTED WITH CONTRACTOR, INSPECTOR, AND OWNER'S REPRESENTATIVE PRESENT. DEFICIENCIES SHALL BE NOTED AT THIS TIME AND ARE THE RESPONSIBILITY OF OWNER. AT COMPLETION OF WORK, SYSTEM WILL AGAIN BE TESTED. DEFICIENCIES NOTED AT THIS TIME THAT WERE NOT NOTED PREVIOUSLY WILL BE RESPONSIBILITY OF CONTRACTOR. EXISTING LANDSCAPE THAT HAS BEEN DAMAGED DUE TO CONSTRUCTION SHALL BE RESTORED TO ORIGINAL CONDITION BY CONTRACTOR AT NO ADDITIONAL COST TO OWNER. PRIOR TO MAKING ANY CONNECTION TO MAIN LINE, CONTRACTOR SHALL NOTIFY OWNER 1 WEEK IN ADVANCE SO ADJUSTMENTS TO EXISTING WATERING PROGRAMS CAN BE MADE.



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AGENCY APPROVAL:

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HMC Architects
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3431-010-000
2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA, 95816
916.368.7990 / www.hmcarchitects.com

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Δ DESCRIPTION DATE

KEYNOTES

NOTES

25-31

MTW group
LANDSCAPE ARCHITECTURE AND PLANNING
2707 K Street, Suite 201
Sacramento, CA 95816
916 369-3990

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FACILITY:
SAMUEL M. GANTNER ELEMENTARY SCHOOL
1305 E VINE ST,
LODI, CA 95240

PROJECT:
SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1

SHEET NAME:
SHRUB PLANTING PLAN

DESIGN DEVELOPMENT

DATE: **09/26/2025** | CLIENT PROJ NO:

SHEET:

L2.4.1

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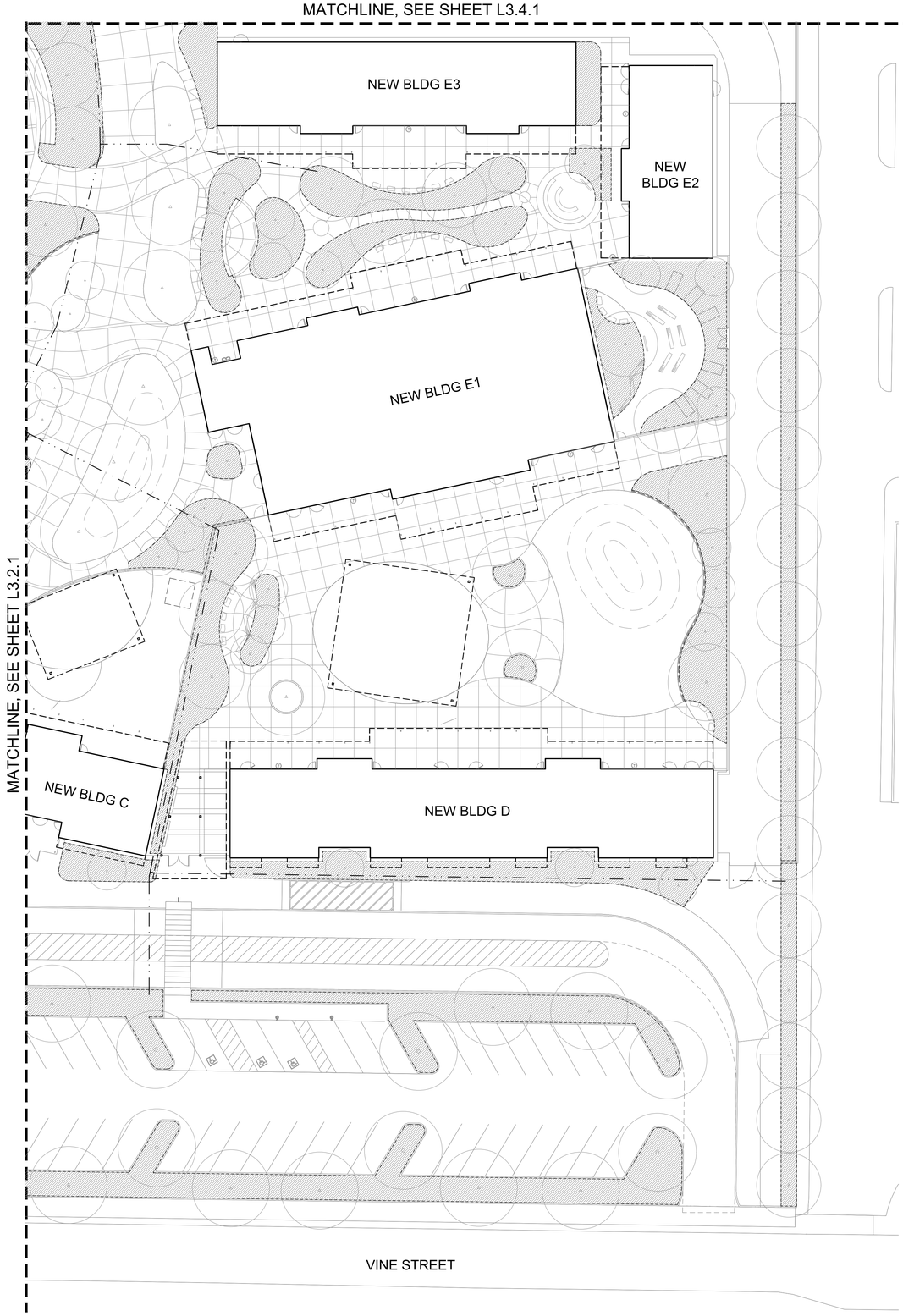

KEY / SPRINKLER IRRIGATION LEGEND

AUTOMATIC CONTROLLER:
RAINBIRD ESP-LXME

POINT OF CONNECTION:
STATIC WATER PRESSURE PRIOR TO WATER METER: __ PSI
DYNAMIC WATER PRESSURE AFTER IRRIGATION BACKFLOW DEVICE: __ PSI
IRRIGATION SYSTEM OPERATING WATER PRESSURE: __ PSI
MAXIMUM FLOW IS __ GPM

CONTRACTOR SHALL LOCATE (_____) INDICATED ON CIVIL SHEETS.
CONNECT AT THIS POINT AND EXTEND AS INDICATED ON DRAWINGS.

BOOSTER PUMP:
BOOSTER PUMP SHALL BE BY ____, MODEL # _____.
CONTACT _____ AT ___-___-____.

INLET PRESSURE: __ PSI
OUTLET PRESSURE: __ PSI
MIN/MAX WATER DEMAND: __GPM/__GPM
POWER INPUT: 480V, 3 PHASE

MASTER VALVE/FLOW SENSOR ASSEMBLY:
MASTER VALVE = 2" NORMALLY CLOSED GRISWOLD #2000P
FLOW SENSOR = BADGER 200SS INSERT IN 3" SADDLE
FLOW SENSOR TO BE CONNECTED TO AUTOMATIC CONTROLLER WITH ____.
MASTER VALVE TO BE CONNECTED TO AUTOMATIC CONTROLLER WITH ____.

GATE VALVE:
TYPE:
3" SIZE AND SMALLER: LEEMCO LGT-XXSS THREADED WITH A NON-RISING STEM AND HANDWHEEL.
LEEMCO LMV-XXBB BELL WITH A NON-RISING STEM AND OPERATING NUT.

GATE VALVE INSTALLED IN A VALVE BOX WITH TOP OF BOX SET FLUSH TO FINISH GRADE.
GATE VALVE TO BE LINE SIZE.

PRESSURE MAIN LINE:
TYPE:
2-1/2" SIZE AND LARGER: ASTM D2241 SDR 21, 200 PSI, RUBBER GASKETED WITH LEEMCO FITTINGS
2" SIZE AND SMALLER: ASTM D1785, PVC SCHEDULE 40.

TRENCH DEPTH:
IN PLANTED AREAS: 24" MINIMUM COVER.
UNDER PAVED AREAS: 24" MINIMUM COVER.
PVC SCHEDULE 40 SLEEVES ARE REQUIRED FOR ALL PIPING UNDER PAVEMENT.

LATERAL LINE:
TYPE:
ASTM D1785, PVC SCHEDULE 40, SOLVENT WELD ALL UNSIZED PIPE SHALL BE 3/4" SIZE.
TRENCH DEPTH:
IN PLANTED AREAS:
POP-UP SPRAY HEADS - 12" MINIMUM COVER.
ROTOR HEADS: - 18" MINIMUM COVER.
BUBBLER HEADS: - 12" MINIMUM COVER.
UNDER PAVED AREAS: 24" MINIMUM COVER.
PVC SCHEDULE 40 SLEEVES ARE REQUIRED FOR ALL PIPING UNDER PAVEMENT.

AUTOMATIC CONTROL VALVE:
RAINBIRD PEB-PRS-D SERIES, OR APPROVED EQUAL.
PRESSURE REGULATOR AS INDICATED ON VALVE ID.

QUICK COUPLER VALVE:
RAINBIRD 44NP, OR APPROVED EQUAL.
VALVES SHALL HAVE LOCKING RUBBER COVERS, INSTALLED IN VALVE BOXES. TOP OF VALVE BOX SHALL HAVE BOLT DOWN LID AND TOP SET LEVEL TO FINISH GRADE.

LAWN POP-UP ROTOR HEADS:
FULL CIRCLE
RAINBIRD: 6504-FC-SS-10 60 PSI

HALF CIRCLE
RAINBIRD: 6504-PC-SS-10 60 PSI

QUARTER CIRCLE
RAINBIRD: 6504-PC-SS-10 60 PSI

HALF CIRCLE
RAINBIRD: 5004-PC-SAM 35 PSI
NOZZLE SIZE AS SHOWN IN THE PLAN

QUARTER CIRCLE
RAINBIRD: 5004-PC-SAM 35 PSI
NOZZLE SIZE AS SHOWN IN THE PLAN

LAWN POP-UP ROTOR HEADS:
HALF CIRCLE
RAINBIRD: 3504-PC-SAM-2.0 35 PSI

QUARTER CIRCLE
RAINBIRD: 3504-PC-SAM-2.0 35 PSI

LAWN POP-UP SPRAY HEADS (35 PSI):
RAINBIRD: RD06-S-P45 BODY WITH RAINBIRD R-VAN 18 SERIES NOZZLES.
HALF AND QUARTER SPRAY PATTERNS.

TREE BUBBLER HEADS:
RAINBIRD: 1402 BUBBLER NOZZLE WITH INLINE CHECK VALVE.

SHRUB BUBBLER:
B1
EMITTER TO BE RAINBIRD XBT-20 (2 GPH).
IH RISER TO BE BURIED A MINIMUM DEPTH OF 3" BELOW GRADE. HUNTER IH-RISER EXTENSION TO EACH BUBBLER NOT SHOWN. SEE DETAIL --/L4.2 FOR INSTALLATION.
PVC SCHEDULE 40 LATERAL LINES SHOWN ON PLAN.
UNSIZED PIPE TO BE 3/4" SIZE. PVC SCHEDULE 40 SLEEVES ARE REQUIRED FOR ALL PIPING UNDER PAVEMENT.
LIMITS OF SHRUB BUBBLER PLACEMENT
INDICATES HYDROZONE
PVC SCH 40 LATERAL LINE

AUTOMATIC DRIP IRRIGATION VALVE/FILTER/PRESSURE REGULATOR:
RAINBIRD CONTROL ZONE KIT MODELS XCZ-100-PRB-COM AND XCZ-150-PRB-COM
PRESSURE REGULATOR AS INDICATED ON VALVE ID.

INDICATES DRIP CONTROL VALVE:
PRESSURE REGULATOR: PSI SHOWN (// IF NOT SPECIFIED, ADJ IF ADJUSTABLE)
STATION NUMBER
VALVE SIZE
GALLONS: GPM

INDICATES CONTROL VALVE:
PRESSURE REGULATOR: PSI SHOWN (// IF NOT SPECIFIED, ADJ IF ADJUSTABLE)
STATION NUMBER
VALVE SIZE
GALLONS: GPM

SPRINKLER IRRIGATION NOTES

1. COMPOSITE BASE SHEET: PROPOSED IMPROVEMENTS SHOWN ON DRAWINGS ARE SUPERIMPOSED ON A COMPOSITE BASE SHEET. THE COMPOSITE BASE SHEET IS A COMPILATION OF ARCHITECTURAL, ENGINEERING, AND OTHER DATA THAT IS PROVIDED. THE LANDSCAPE ARCHITECT SHALL NOT BE HELD LIABLE FOR CHANGES, INACCURACIES, OMISSIONS, OR ERRORS PERTAINING TO THE COMPOSITE BASE SHEET. CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING THESE DOCUMENTS. ANY DISCREPANCIES NEED TO BE BROUGHT TO THE ATTENTION OF THE DESIGN TEAM AND RESOLVED PRIOR TO CONTINUATION OF WORK.
2. DESIGN PRESSURE SHOWN ON PLANS HAS BEEN FURNISHED BY WATER COMPANY OR WATER DISTRICT SERVING SITE. VERIFY PRESSURE ON-SITE PRIOR TO THE INSTALLATION OF ANY SPRINKLER IRRIGATION EQUIPMENT. IF THERE IS A DISCREPANCY, NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY IN WRITING SO ADJUSTMENTS CAN BE MADE BY LANDSCAPE ARCHITECT. FAILURE TO REPORT DISCREPANCIES AND CONTINUANCE OF WORK WILL RESULT IN ALL RE-DESIGN COSTS BEING CHARGED TO CONTRACTOR.
3. DETERMINE LOCATION OF UNDERGROUND UTILITIES. DAMAGE CAUSED BY INSTALLATION OF THIS WORK SHALL BE REPAIRED TO SATISFACTION OF GOVERNING AGENCY OR OWNER AT NO ADDITIONAL COST TO THE CONTRACT.
4. SPRINKLER OVER SPRAY SHALL NOT BE ALLOWED ON PUBLIC SIDEWALKS, BUILDING WALLS OR FENCES. MINIMUM OVERSPRAY MAY OCCUR IN PARKING AREAS. USE ADJUSTABLE NOZZLES WHENEVER POSSIBLE TO CONTROL SPRINKLER OVERSPRAY.
5. ALL LOCAL CODES AND ORDINANCES SHALL BE COMPLIED WITH. IF THERE IS A CONFLICT, NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY.
6. TESTING:
   A. PRESSURE TEST ALL UNDERGROUND PIPING AS FOLLOWS:
      SYSTEMS WITH BOOSTER PUMP:
      MAIN LINE - AT 100 PSI FOR 4 HOURS.
      LATERAL LINES - AT 100 PSI FOR 2 HOURS.
      SYSTEMS WITH OUT BOOSTER PUMP:
      MAIN LINE - AT STATIC PSI FOR 4 HOURS.
      LATERAL LINES - AT STATIC PSI FOR 2 HOURS.
   B. COVERAGE TEST: NOTE: PRIOR TO REQUESTING COVERAGE TEST, INSURE ALL HEADS ARE SET PLUMB, NOZZLES ARE ADJUSTED PROPERLY AND SYSTEM HAS BEEN CHECKED FOR AUTOMATION. REQUEST OWNER'S REPRESENTATIVES PRESENCE ON-SITE WHEN SPRINKLER SYSTEM IS COMPLETELY INSTALLED AND FULLY AUTOMATIC. PROVIDE ADEQUATE PERSONNEL AT THIS MEETING TO ADJUST AND FINE TUNE SYSTEM TO SATISFACTION OF OWNER'S REPRESENTATIVE.
7. LAYOUT ALL WORK PRIOR TO TRENCHING OPERATIONS TO DETERMINE IF MINOR MODIFICATIONS OR ADJUSTMENTS WILL BE REQUIRED.
8. INSTALL ALL SPRINKLER HEADS PERPENDICULAR TO SLOPES OR GRADE.
9. CONTROL WIRE SHALL BE UF-14, COLOR FOR LEAD AND WHITE FOR COMMON. SPLICES SHALL BE PERMITTED AT VALVE BOX LOCATIONS ONLY.
10. PROVIDE AND INSTALL AUTOMATIC CONTROLLER AND UF-14 CONTROL WIRE. ELECTRICAL SUBCONTRACTOR SHALL PROVIDE 110V SERVICE AND SERVICE HOOKUP FROM POWER SOURCE TO AUTOMATIC CONTROLLER.
11. COORDINATE ALL WORK WITH OTHER TRADES SO PROGRESS OF WORK IS NOT INTERRUPTED AND CAN BE COMPLETED IN A TIMELY MANNER.
12. NO PLANTING SHALL BE STARTED UNTIL ALL SPRINKLER WORK HAS BEEN TESTED AND APPROVED IN PRESENCE OF OWNER'S REPRESENTATIVE.
13. FOR SPRINKLER IRRIGATION INSTALLATION DETAILS, SEE SHEET NO. L4.2.1, L4.3.1, & L5.1.1.

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SCALE: 1"= 20'-0"

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SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

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Sacramento, CA 95816
916 369-3990

LICENSED LANDSCAPE ARCHITECT MARK T. WELLER No. 5403 REGISTERED CALIFORNIA

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SAMUEL M. GANTNER ELEMENTARY SCHOOL
1305 E VINE ST,
LODI, CA 95240

PROJECT:
SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1

SHEET NAME:
SPRINKLER IRRIGATION PLAN

DESIGN DEVELOPMENT

DATE: **09/26/2025** | CLIENT PROJ NO:

SHEET:

L3.1.1

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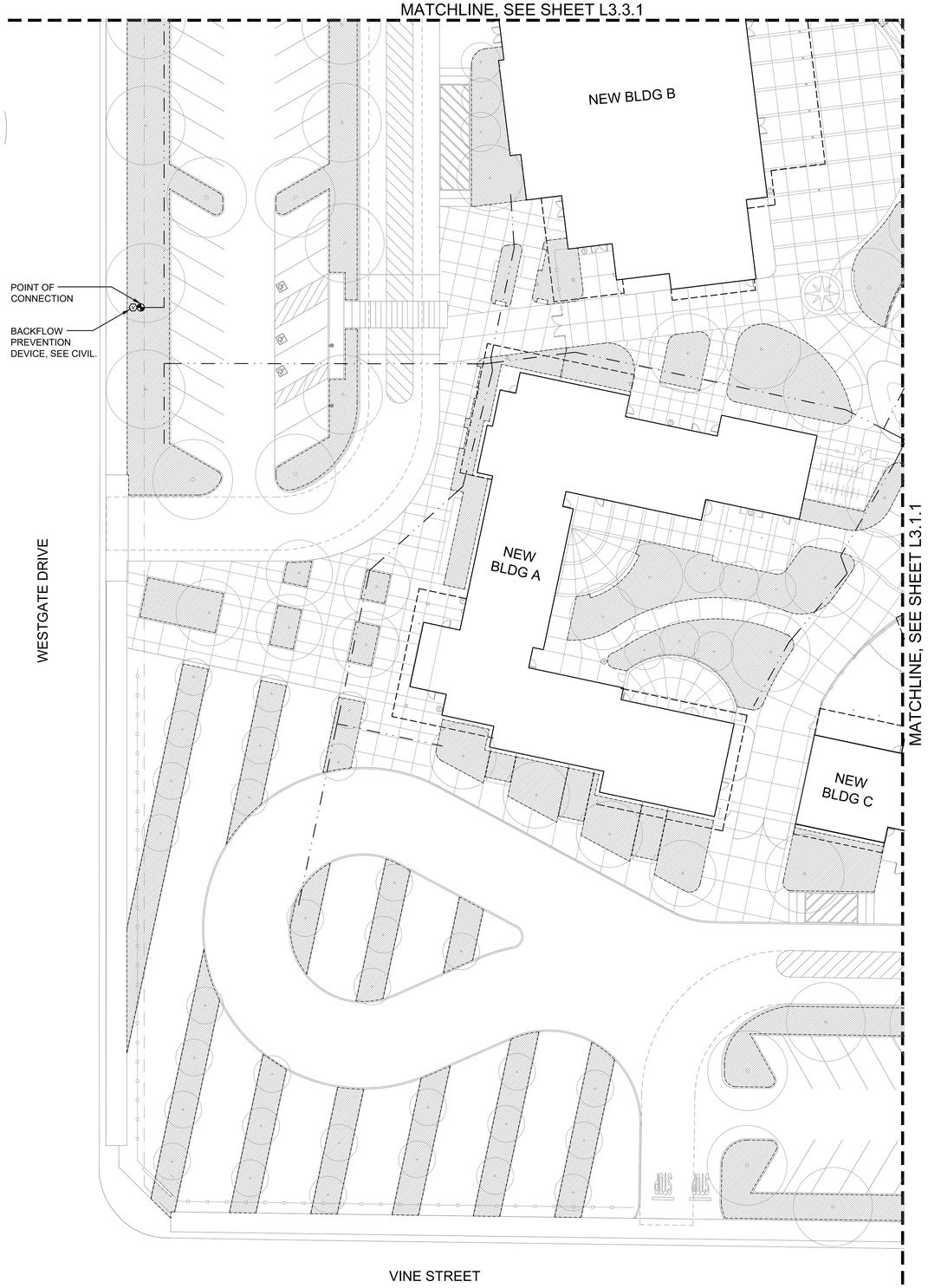

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AUTOMATIC CONTROLLER:
RAINBIRD ESP-LXME

POINT OF CONNECTION:
STATIC WATER PRESSURE PRIOR TO WATER METER: __ PSI
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CONTACT _____ AT __-__-____.

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MIN/MAX WATER DEMAND: __GPM/__GPM
POWER INPUT: 480V, 3 PHASE

MASTER VALVE/FLOW SENSOR ASSEMBLY:
MASTER VALVE = 2" NORMALLY CLOSED GRISWOLD #2000P
FLOW SENSOR = BADGER 200SS INSERT IN 3" SADDLE
FLOW SENSOR TO BE CONNECTED TO AUTOMATIC CONTROLLER WITH ____.
MASTER VALVE TO BE CONNECTED TO AUTOMATIC CONTROLLER WITH ____.

GATE VALVE:
TYPE:
3" SIZE AND SMALLER: LEEMCO LGT-XXSS THREADED WITH A NON-RISING STEM AND HANDWHEEL.
LEEMCO LMV-XXBB BELL WITH A NON-RISING STEM AND OPERATING NUT.

GATE VALVE INSTALLED IN A VALVE BOX WITH TOP OF BOX SET FLUSH TO FINISH GRADE.
GATE VALVE TO BE LINE SIZE.

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2" SIZE AND SMALLER: ASTM D1785, PVC SCHEDULE 40.

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PVC SCHEDULE 40 SLEEVES ARE REQUIRED FOR ALL PIPING UNDER PAVEMENT.

LATERAL LINE:
TYPE:
ASTM D1785, PVC SCHEDULE 40, SOLVENT WELD ALL UNSIZED PIPE SHALL BE 3/4" SIZE.
TRENCH DEPTH:
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LAWN POP-UP ROTOR HEADS:
FULL CIRCLE
RAINBIRD: 6504-FC-SS-10 60 PSI

HALF CIRCLE
RAINBIRD: 6504-PC-SS-10 60 PSI

QUARTER CIRCLE
RAINBIRD: 6504-PC-SS-10 60 PSI

HALF CIRCLE
RAINBIRD: 5004-PC-SAM 35 PSI
NOZZLE SIZE AS SHOWN IN THE PLAN

QUARTER CIRCLE
RAINBIRD: 5004-PC-SAM 35 PSI
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RAINBIRD: 3504-PC-SAM-2.0 35 PSI

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STATION NUMBER
VALVE SIZE
GALLONS: GPM

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4. SPRINKLER OVER SPRAY SHALL NOT BE ALLOWED ON PUBLIC SIDEWALKS, BUILDING WALLS OR FENCES. MINIMUM OVERSPRAY MAY OCCUR IN PARKING AREAS. USE ADJUSTABLE NOZZLES WHENEVER POSSIBLE TO CONTROL SPRINKLER OVERSPRAY.
5. ALL LOCAL CODES AND ORDINANCES SHALL BE COMPLIED WITH. IF THERE IS A CONFLICT, NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY.
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   A. PRESSURE TEST ALL UNDERGROUND PIPING AS FOLLOWS:
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      SYSTEMS WITH OUT BOOSTER PUMP:
      MAIN LINE - AT STATIC PSI FOR 4 HOURS.
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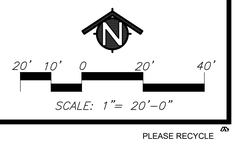
   B. COVERAGE TEST: NOTE: PRIOR TO REQUESTING COVERAGE TEST, INSURE ALL HEADS ARE SET PLUMB, NOZZLES ARE ADJUSTED PROPERLY AND SYSTEM HAS BEEN CHECKED FOR AUTOMATION. REQUEST OWNER'S REPRESENTATIVES PRESENCE ON-SITE WHEN SPRINKLER SYSTEM IS COMPLETELY INSTALLED AND FULLY AUTOMATIC. PROVIDE ADEQUATE PERSONNEL AT THIS MEETING TO ADJUST AND FINE TUNE SYSTEM TO SATISFACTION OF OWNER'S REPRESENTATIVE.
7. LAYOUT ALL WORK PRIOR TO TRENCHING OPERATIONS TO DETERMINE IF MINOR MODIFICATIONS OR ADJUSTMENTS WILL BE REQUIRED.
8. INSTALL ALL SPRINKLER HEADS PERPENDICULAR TO SLOPES OR GRADE.
9. CONTROL WIRE SHALL BE UF-14, COLOR FOR LEAD AND WHITE FOR COMMON. SPLICES SHALL BE PERMITTED AT VALVE BOX LOCATIONS ONLY.
10. PROVIDE AND INSTALL AUTOMATIC CONTROLLER AND UF-14 CONTROL WIRE. ELECTRICAL SUBCONTRACTOR SHALL PROVIDE 110V SERVICE AND SERVICE HOOKUP FROM POWER SOURCE TO AUTOMATIC CONTROLLER.
11. COORDINATE ALL WORK WITH OTHER TRADES SO PROGRESS OF WORK IS NOT INTERRUPTED AND CAN BE COMPLETED IN A TIMELY MANNER.
12. NO PLANTING SHALL BE STARTED UNTIL ALL SPRINKLER WORK HAS BEEN TESTED AND APPROVED IN PRESENCE OF OWNER'S REPRESENTATIVE.
13. FOR SPRINKLER IRRIGATION INSTALLATION DETAILS, SEE SHEET NO. L4.2.1, L4.3.1, & L5.1.1.



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AGENCY APPROVAL:

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2101 CAPITOL AVENUE, SUITE 100, SACRAMENTO, CA, 95816
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Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

25-31

MTW group
LANDSCAPE ARCHITECTURE AND PLANNING
2707 K Street, Suite 201
Sacramento, CA 95816
916 369-3990

FOR REVIEW ONLY - NOT FOR CONSTRUCTION

FACILITY:
SAMUEL M. GANTNER ELEMENTARY SCHOOL
1305 E VINE ST,
LODI, CA 95240

PROJECT:
SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1

SHEET NAME:
SPRINKLER IRRIGATION PLAN

DESIGN DEVELOPMENT

DATE: **09/26/2025** | CLIENT PROJ NO:

SHEET:

L3.2.1

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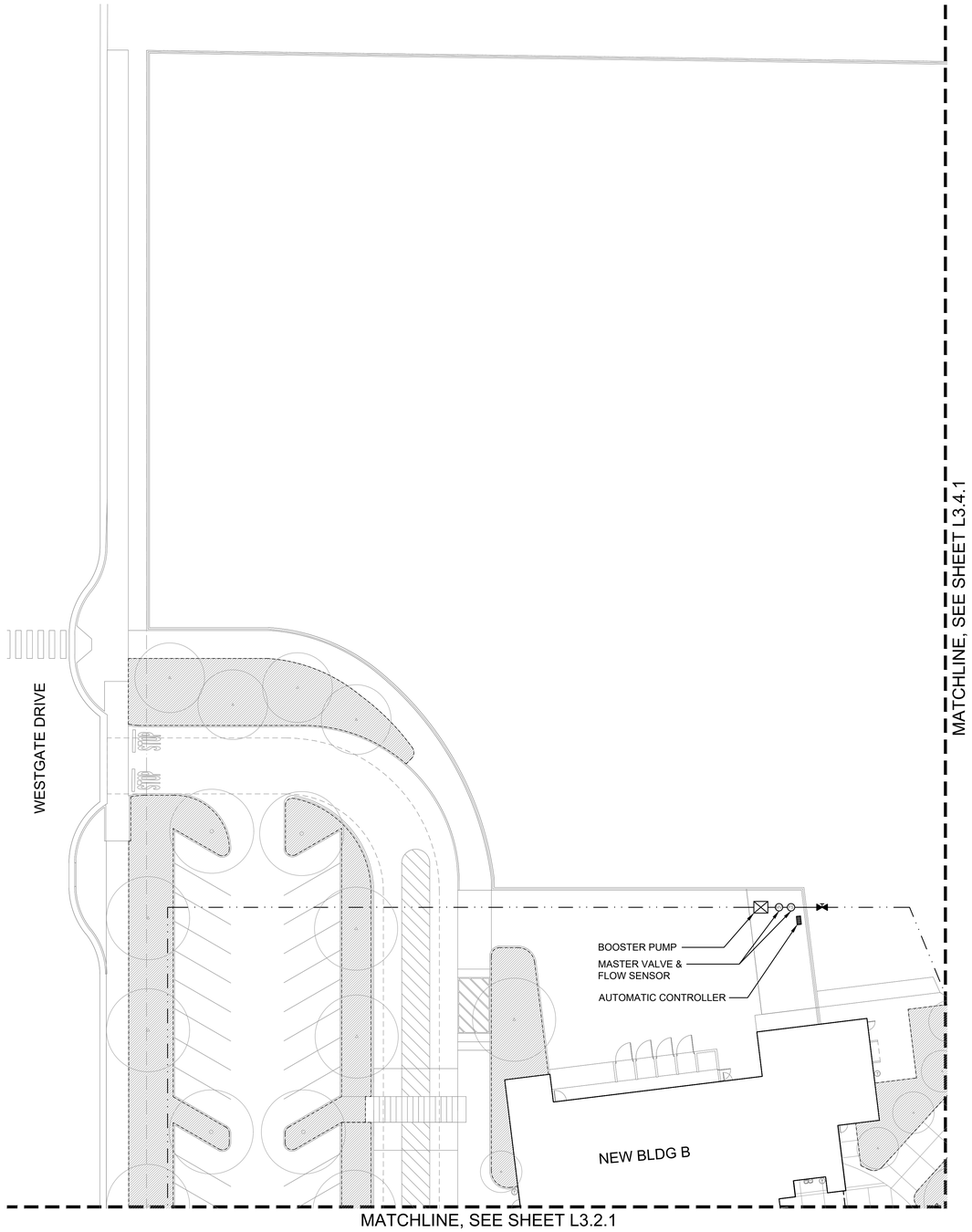

MATCHLINE, SEE SHEET L3.4.1

KEY / SPRINKLER IRRIGATION LEGEND

AUTOMATIC CONTROLLER:
RAINBIRD ESP-LXME

POINT OF CONNECTION:
STATIC WATER PRESSURE PRIOR TO WATER METER: __ PSI
DYNAMIC WATER PRESSURE AFTER IRRIGATION BACKFLOW DEVICE: __ PSI
IRRIGATION SYSTEM OPERATING WATER PRESSURE: __ PSI
MAXIMUM FLOW IS ___ GPM

CONTRACTOR SHALL LOCATE (_____) INDICATED ON CIVIL SHEETS.
CONNECT AT THIS POINT AND EXTEND AS INDICATED ON DRAWINGS.

BOOSTER PUMP:
BOOSTER PUMP SHALL BE BY ____, MODEL # _____.
CONTACT _____ AT ___-___-____.

INLET PRESSURE: __ PSI
OUTLET PRESSURE: ___ PSI
MIN/MAX WATER DEMAND: _GPM/_GPM
POWER INPUT: 480V, 3 PHASE

MASTER VALVE/FLOW SENSOR ASSEMBLY:
MASTER VALVE = 2" NORMALLY CLOSED GRISWOLD #2000P

FLOW SENSOR = BADGER 200SS INSERT IN 3" SADDLE

FLOW SENSOR TO BE CONNECTED TO AUTOMATIC CONTROLLER WITH ____.
MASTER VALVE TO BE CONNECTED TO AUTOMATIC CONTROLLER WITH ____.

GATE VALVE:
TYPE:
3" SIZE AND SMALLER: LEEMCO LGT-XXSS THREADED WITH A NON-RISING STEM AND HANDWHEEL.
LEEMCO LMV-XXBB BELL WITH A NON-RISING STEM AND OPERATING NUT.

GATE VALVE INSTALLED IN A VALVE BOX WITH TOP OF BOX SET FLUSH TO FINISH GRADE.
GATE VALVE TO BE LINE SIZE.

PRESSURE MAIN LINE:
TYPE:
2-1/2" SIZE AND LARGER: ASTM D2241 SDR 21, 200 PSI, RUBBER GASKETED WITH LEEMCO FITTINGS
2" SIZE AND SMALLER: ASTM D1785, PVC SCHEDULE 40.

TRENCH DEPTH:
IN PLANTED AREAS: 24" MINIMUM COVER.
UNDER PAVED AREAS: 24" MINIMUM COVER.
PVC SCHEDULE 40 SLEEVES ARE REQUIRED FOR ALL PIPING UNDER PAVEMENT.

LATERAL LINE:
TYPE:
ASTM D1785, PVC SCHEDULE 40, SOLVENT WELD ALL UNSIZED PIPE SHALL BE 3/4" SIZE.
TRENCH DEPTH:
IN PLANTED AREAS:
POP-UP SPRAY HEADS - 12" MINIMUM COVER.
ROTOR HEADS: - 18" MINIMUM COVER.
BUBBLER HEADS: - 12" MINIMUM COVER.
UNDER PAVED AREAS: 24" MINIMUM COVER.
PVC SCHEDULE 40 SLEEVES ARE REQUIRED FOR ALL PIPING UNDER PAVEMENT.

AUTOMATIC CONTROL VALVE:
RAINBIRD PEB-PRS-D SERIES, OR APPROVED EQUAL.
PRESSURE REGULATOR AS INDICATED ON VALVE ID.

QUICK COUPLER VALVE:
RAINBIRD 44NP, OR APPROVED EQUAL.
VALVES SHALL HAVE LOCKING RUBBER COVERS, INSTALLED IN VALVE BOXES. TOP OF VALVE BOX SHALL HAVE BOLT DOWN LID AND TOP SET LEVEL TO FINISH GRADE.

LAWN POP-UP ROTOR HEADS:
FULL CIRCLE
RAINBIRD: 6504-FC-SS-10 60 PSI

HALF CIRCLE
RAINBIRD: 6504-PC-SS-10 60 PSI

QUARTER CIRCLE
RAINBIRD: 6504-PC-SS-10 60 PSI

HALF CIRCLE
RAINBIRD: 5004-PC-SAM 35 PSI
NOZZLE SIZE AS SHOWN IN THE PLAN

QUARTER CIRCLE
RAINBIRD: 5004-PC-SAM 35 PSI
NOZZLE SIZE AS SHOWN IN THE PLAN

LAWN POP-UP ROTOR HEADS:
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RAINBIRD: 3504-PC-SAM-2.0 35 PSI

QUARTER CIRCLE
RAINBIRD: 3504-PC-SAM-2.0 35 PSI

LAWN POP-UP SPRAY HEADS (35 PSI):
RAINBIRD: RD06-S-P45 BODY WITH RAINBIRD R-VAN 18 SERIES NOZZLES.
HALF AND QUARTER SPRAY PATTERNS.

TREE BUBBLER HEADS:
RAINBIRD: 1402 BUBBLER NOZZLE WITH INLINE CHECK VALVE.

SHRUB BUBBLER:
B1
EMITTER TO BE RAINBIRD XBT-20 (2 GPH).
IH RISER TO BE BURIED A MINIMUM DEPTH OF 3" BELOW GRADE. HUNTER IH-RISER EXTENSION TO EACH BUBBLER NOT SHOWN. SEE DETAIL =/L4.2 FOR INSTALLATION.
PVC SCHEDULE 40 LATERAL LINES SHOWN ON PLAN.
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LIMITS OF SHRUB BUBBLER PLACEMENT
INDICATES HYDROZONE
PVC SCH 40 LATERAL LINE

AUTOMATIC DRIP IRRIGATION VALVE/FILTER/PRESSURE REGULATOR:
RAINBIRD CONTROL ZONE KIT MODELS XCZ-100-PRB-COM AND XCZ-150-PRB-COM
PRESSURE REGULATOR AS INDICATED ON VALVE ID.

INDICATES DRIP CONTROL VALVE:
1 / 1" / 00
PRESSURE REGULATOR: PSI SHOWN (// IF NOT SPECIFIED, ADJ IF ADJUSTABLE)
STATION NUMBER
VALVE SIZE
GALLONS: GPM

INDICATES CONTROL VALVE:
2 / 1" / 00
PRESSURE REGULATOR: PSI SHOWN (// IF NOT SPECIFIED, ADJ IF ADJUSTABLE)
STATION NUMBER
VALVE SIZE
GALLONS: GPM

SPRINKLER IRRIGATION NOTES

1. COMPOSITE BASE SHEET: PROPOSED IMPROVEMENTS SHOWN ON DRAWINGS ARE SUPERIMPOSED ON A COMPOSITE BASE SHEET. THE COMPOSITE BASE SHEET IS A COMPILATION OF ARCHITECTURAL, ENGINEERING, AND OTHER DATA THAT IS PROVIDED. THE LANDSCAPE ARCHITECT SHALL NOT BE HELD LIABLE FOR CHANGES, INACCURACIES, OMISSIONS, OR ERRORS PERTAINING TO THE COMPOSITE BASE SHEET. CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEWING THESE DOCUMENTS. ANY DISCREPANCIES NEED TO BE BROUGHT TO THE ATTENTION OF THE DESIGN TEAM AND RESOLVED PRIOR TO CONTINUATION OF WORK.
2. DESIGN PRESSURE SHOWN ON PLANS HAS BEEN FURNISHED BY WATER COMPANY OR WATER DISTRICT SERVING SITE. VERIFY PRESSURE ON-SITE PRIOR TO THE INSTALLATION OF ANY SPRINKLER IRRIGATION EQUIPMENT. IF THERE IS A DISCREPANCY, NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY IN WRITING SO ADJUSTMENTS CAN BE MADE BY LANDSCAPE ARCHITECT. FAILURE TO REPORT DISCREPANCIES AND CONTINUANCE OF WORK WILL RESULT IN ALL RE-DESIGN COSTS BEING CHARGED TO CONTRACTOR.
3. DETERMINE LOCATION OF UNDERGROUND UTILITIES. DAMAGE CAUSED BY INSTALLATION OF THIS WORK SHALL BE REPAIRED TO SATISFACTION OF GOVERNING AGENCY OR OWNER AT NO ADDITIONAL COST TO THE CONTRACT.
4. SPRINKLER OVER SPRAY SHALL NOT BE ALLOWED ON PUBLIC SIDEWALKS, BUILDING WALLS OR FENCES. MINIMUM OVERSPRAY MAY OCCUR IN PARKING AREAS. USE ADJUSTABLE NOZZLES WHENEVER POSSIBLE TO CONTROL SPRINKLER OVERSPRAY.
5. ALL LOCAL CODES AND ORDINANCES SHALL BE COMPLIED WITH. IF THERE IS A CONFLICT, NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY.
6. TESTING:
   A. PRESSURE TEST ALL UNDERGROUND PIPING AS FOLLOWS:
      SYSTEMS WITH BOOSTER PUMP:
      MAIN LINE - AT 100 PSI FOR 4 HOURS.
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10. PROVIDE AND INSTALL AUTOMATIC CONTROLLER AND UF-14 CONTROL WIRE. ELECTRICAL SUBCONTRACTOR SHALL PROVIDE 110V SERVICE AND SERVICE HOOKUP FROM POWER SOURCE TO AUTOMATIC CONTROLLER.
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13. FOR SPRINKLER IRRIGATION INSTALLATION DETAILS, SEE SHEET NO. L4.2.1, L4.3.1, & L5.1.1.

N

20' 10' 0 20' 40'

SCALE: 1"= 20'-0"

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PROJECT:
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SHEET NAME:
SPRINKLER IRRIGATION PLAN

DESIGN DEVELOPMENT

DATE: **09/26/2025** CLIENT PROJ NO:

SHEET:

L3.3.1

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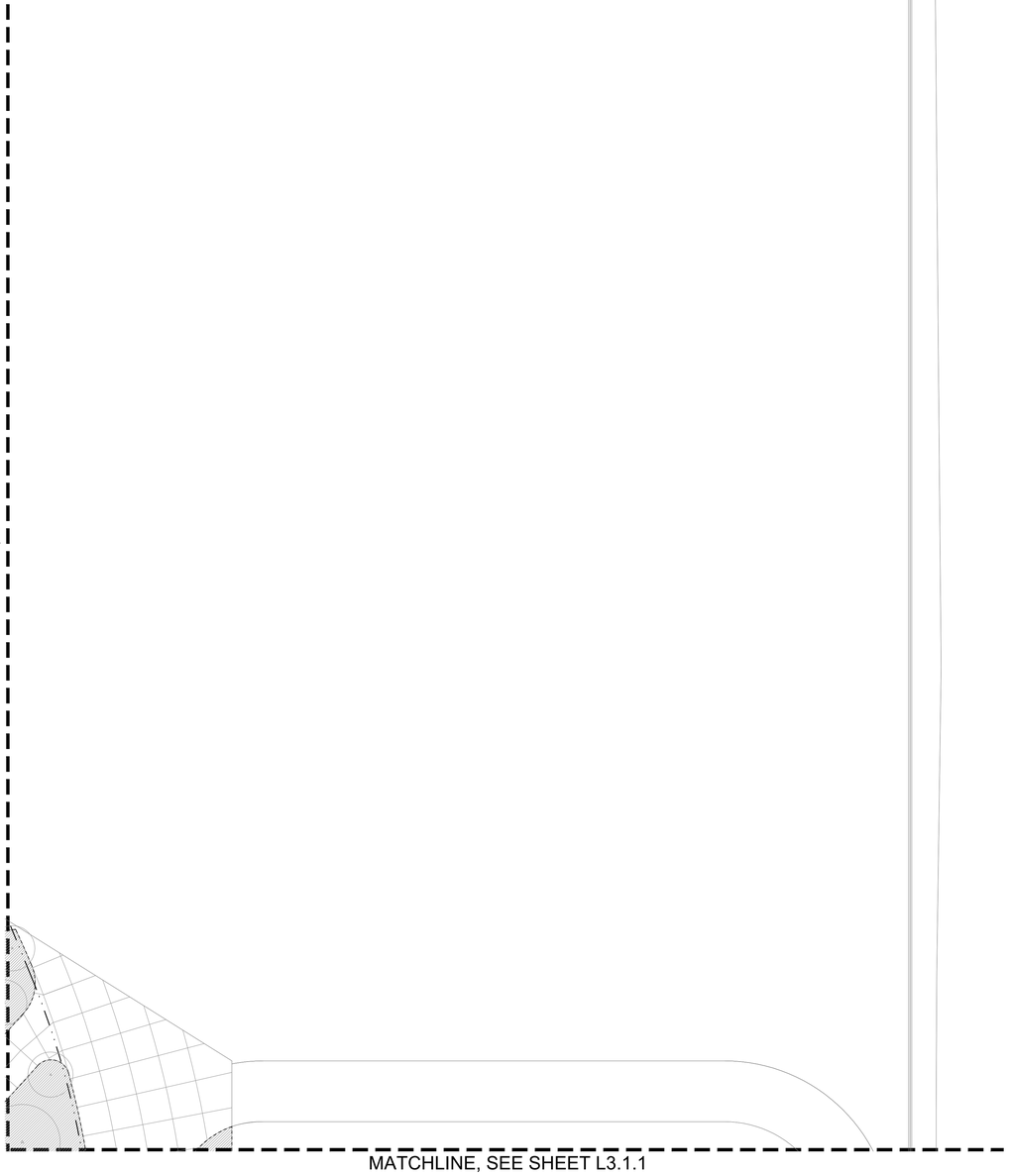
MATCHLINE, SEE SHEET L3.3.1



MATCHLINE, SEE SHEET L3.1.1

KEY | SPRINKLER IRRIGATION LEGEND

AUTOMATIC CONTROLLER:
RAINBIRD ESP-LXME

POINT OF CONNECTION:
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CONTACT _____ AT ___-___-____.

INLET PRESSURE: __ PSI
OUTLET PRESSURE: __ PSI
MIN/MAX WATER DEMAND: __GPM/__GPM
POWER INPUT: 480V, 3 PHASE

MASTER VALVE/FLOW SENSOR ASSEMBLY:
MASTER VALVE = 2" NORMALLY CLOSED GRISWOLD #2000P
FLOW SENSOR = BADGER 200SS INSERT IN 3" SADDLE
FLOW SENSOR TO BE CONNECTED TO AUTOMATIC CONTROLLER WITH ____.
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GATE VALVE:
TYPE:
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TRENCH DEPTH:
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PVC SCHEDULE 40 SLEEVES ARE REQUIRED FOR ALL PIPING UNDER PAVEMENT.

LATERAL LINE:
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ASTM D1785, PVC SCHEDULE 40, SOLVENT WELD ALL UNSIZED PIPE SHALL BE 3/4" SIZE.
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HALF CIRCLE
RAINBIRD: 6504-PC-SS-10 60 PSI

QUARTER CIRCLE
RAINBIRD: 6504-PC-SS-10 60 PSI

HALF CIRCLE
RAINBIRD: 5004-PC-SAM 35 PSI
NOZZLE SIZE AS SHOWN IN THE PLAN

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INDICATES DRIP CONTROL VALVE:
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STATION NUMBER
VALVE SIZE
GALLONS: GPM

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

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SHEET NAME:
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DESIGN DEVELOPMENT

DATE: **09/26/2025** | CLIENT PROJ NO:

SHEET:

L3.4.1

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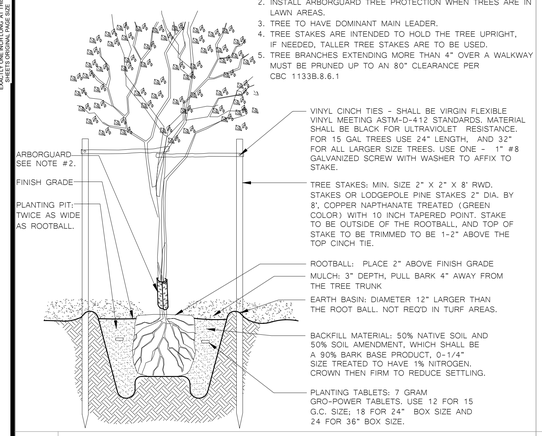
NOTES:
1. VITAMIN B-1: SUPERTHRIVE, LIQUINOX START OR EQUAL. APPLY AS PER MANUFACTURER'S INSTRUCTIONS WITH THE SECOND WATERING OF THE BASIN.
2. INSTALL ARBORGUARD TREE PROTECTION WHEN TREES ARE IN LAWN AREAS.
3. TREE TO HAVE DOMINANT MAIN LEADER.
4. TREE STAKES ARE INTENDED TO HOLD THE TREE UPRIGHT, IF NEEDED, TALLER TREE STAKES ARE TO BE USED.
5. TREE BRANCHES EXTENDING MORE THAN 4" OVER A WALKWAY MUST BE PRUNED UP TO AN 80" CLEARANCE PER CBC 11338.8.6.1



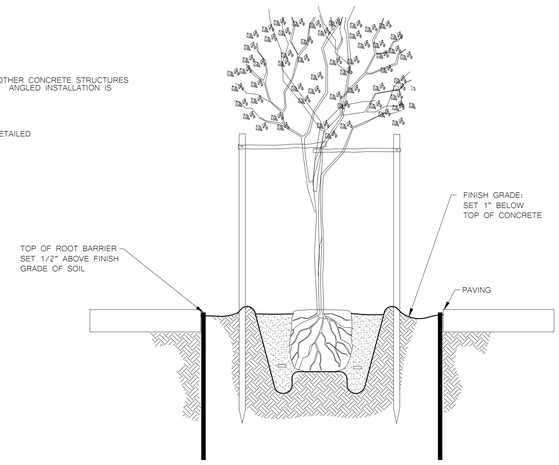
1 TREE PLANTING AND STAKING DETAIL

NOTE:
1. SEE TREE PLANTING DETAIL FOR ADDITIONAL INFORMATION.

TREE ROOT BARRIER PROTECTION
1. CONTRACTOR TO REMOVE ALL CONCRETE SPOILS FROM FLATWORK, CURBS OR OTHER CONCRETE STRUCTURES TO ENSURE THE ROOT BARRIER IS ADJACENT TO THE CONCRETE AND VERTICAL. ANGLED INSTALLATION IS NOT ACCEPTABLE.
2. TREE SHALL BE LOCATED IN CENTER OR MIDPOINT OF PLANTER.
3. TREE ROOT BARRIER IS TO BE INSTALLED IN LOCATIONS SHOWN ON THE PLANS.
4. TREE ROOT BARRIER SHALL BE INSTALLED ADJACENT TO EDGE OF PAVING AS DETAILED
5. PLACE ROOT BARRIER SO THAT VERTICAL RIBS FACE TOWARD THE TREE.

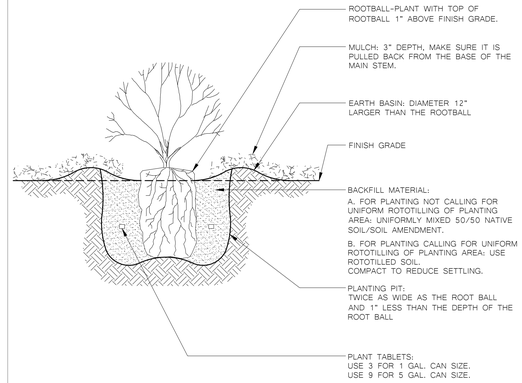
ROOT BARRIER
BY: DEEP ROOT PARTNERS OR NDS INC. OR APPROVED EQ.

15 GAL SIZE TREE OR LARGER:
24" MODULAR ROOT BARRIER PANEL



2 ROOT BARRIER CONTROL DETAIL

NOTE: VITAMIN B-1 SUPERTHRIVE LIQUINOX OR EQUAL. APPLY AS PER MANUFACTURE'S INSTRUCTIONS WITH SECOND WATERING OF THE BASIN.



3 SHRUB PLANTING DETAIL

NOTES:
1. FINISH GRADE OF SOIL TO BE 1" BELOW ADJACENT HARDSCAPE FOR BOTH LAWN AREAS AND PLANTER BED AREAS
2. BARK MULCH DEPTH DOES NOT DICTATE THE ELEVATION OF THE FINISH GRADE
3. BARK MULCH TO BE FEATHERED DOWN TO 1" DEPTH, 12" FROM EDGE OF HARDSCAPE

4 LANDSCAPE GRADE ADJACENT TO HARDSCAPE DETAIL

NOTES:
1. SUBMIT SAMPLE TO ARCHITECT FOR APPROVAL PRIOR TO ORDERING.
2. DECOMPOSED GRANITE SHALL HAVE A MIXTURE OF FINE TO 3/8" SIZE PARTICLES WITH NO CLODS.
3. THE MATERIAL SHALL BE FREE OF VEGETATION, OTHER SOILS, DEBRIS AND ROCKS.
4. THE MATERIAL SHALL BE REDDISH-TAN IN COLOR.
5. THE MATERIAL SHALL BE OF SUCH NATURE THAT IT CAN BE COMPACTED READILY UNDER WATERING AND ROLLING.

SECTION

5 DECOMPOSED GRANITE/BINDER DETAIL

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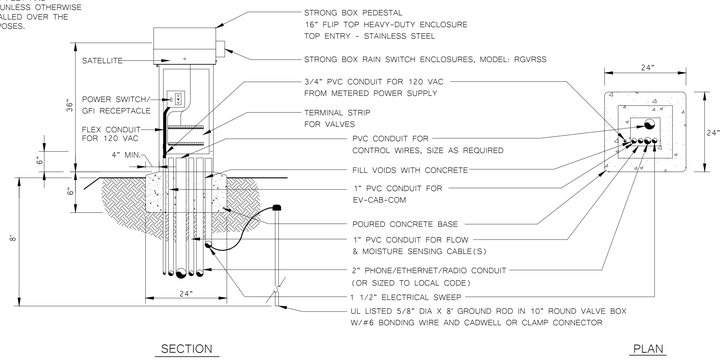
NOTE:
1. ASSEMBLY TO INCLUDE:
   CONTROLLER MODEL, ENCLOSURE MODEL, AND OPTIONS AS SPECIFIED
   TERMINAL STRIPS
   TEMPLETE AND BOLTS
   UL LISTED 8' COPPER GROUND ROD
   GROUND ROD CLAMP OR CADWELD
   10' OF #6 GROUNDING WIRE
2. ALL CABLES AND ELECTRICAL WIRES MUST BE RUN IN CONDUIT
3. GROUND ROD SHALL BE LOCATED NO CLOSER THAN 8 FEET AND NO FURTHER THAN 12 FEET FROM THE CONTROLLER UNLESS OTHERWISE SPECIFIED. A 10" ROUND VALVE BOX SHALL BE INSTALLED OVER THE GROUND ROD FOR LOCATION AND MAINTENANCE PURPOSES.



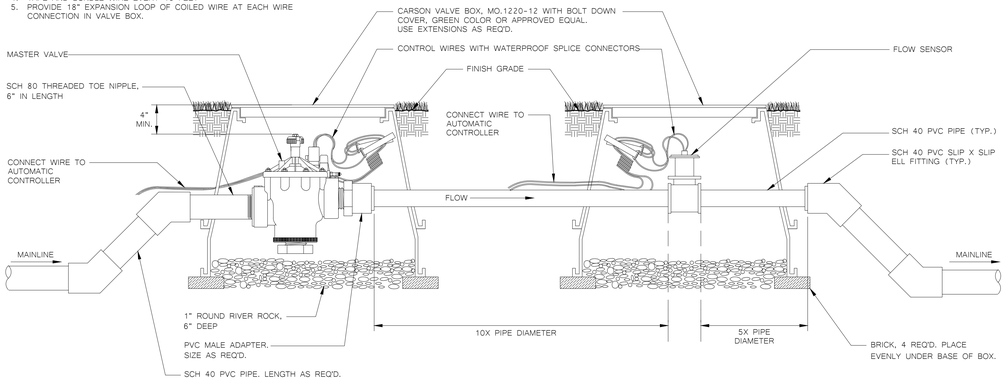
SECTION PLAN

1 AUTOMATIC CONTROLLER - TOP ENTRY PEDESTAL DETAIL

PLACEHOLDER

2 BOOSTER PUMP DETAIL

NOTES:
1. SET VALVE BOX LEVEL WITH FINISH GRADE.
2. INSTALL VALVE BOX EXTENSIONS AS REQUIRED.
3. CONNECT ALL WIRES WITH WEATHER TIGHT CONNECTORS. SPLICES IN WIRE SHALL BE PERMITTED ONLY AT VALVE LOCATIONS.
4. TAPE AND BUNDLE WIRE EVERY 10 FEET
5. PROVIDE 18" EXPANSION LOOP OF COILED WIRE AT EACH WIRE CONNECTION IN VALVE BOX.



3 MASTER VALVE AND FLOW SENSOR DETAIL

DISTANCE CHART

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

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

PIPE SIZE	BENDS				REDUCERS			DEAD END	GATE VALVE
	11°	22°	45°	90°	1 STEP	2 STEP	3 STEP		
2"	1'	1'	2'	6'	-	-	-	19'	10'
2.5"	1'	2'	4'	9'	4'	-	-	23'	12'
3"	2'	3'	6'	11'	8'	10'	-	30'	15'
4"	2'	4'	8'	20'	14'	20'	31'	45'	23'
6"	3'	6'	13'	29'	30'	40'	53'	63'	31'
8"	4'	8'	15	38'	33'	55'	63'	75'	38'
10"	5'	9'	19'	45'	36'	56'	75'	96'	48'
12"	5'	10'	21'	53'	38'	60'	83'	112'	56'

NOTE: STEP REDUCTION EXAMPLE: 1 STEP (8 X 6), 2 STEP (8 X 4), 3 STEP (8 X 3)

INSTALLATION CHART

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

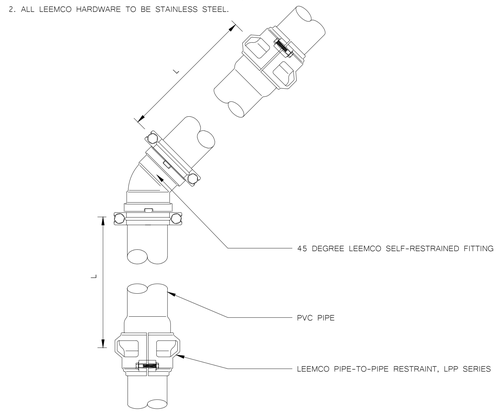
AS AN EXAMPLE, IF YOU HAVE A 3" PIPE, YOU WILL NEED 2 BOLTS THAT ARE 3/8 X 2.5" AND TIGHTEN THEM WITH A TORQUE WRENCH TO 20 FT-LBS.

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

CONTACT NUNZIO DICHRISTOPHER @ (916) 202-1333, THE LEEMCO REPRESENTATIVE, FOR ALL QUESTIONS CONCERNING LEEMCO PRODUCTS. COORDINATE AN INSTALLATION CLINIC WITH NUNZIO PRIOR TO INSTALLING THE MAINLINE.

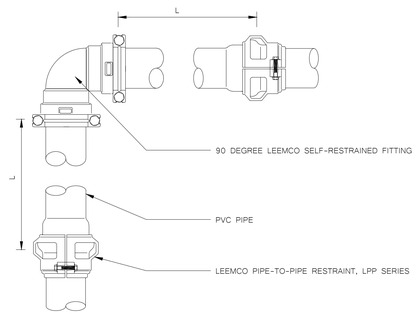
4 LEEMCO JOINT RESTRAINTS CHART

NOTES:
1. REFER TO LEEMCO MANUEL FOR JOINT RESTRAINT REQUIREMENTS FOR ALL FITTINGS.
   L = LENGTH IN WHICH JOINT RESTRAINT IS REQUIRED
2. ALL LEEMCO HARDWARE TO BE STAINLESS STEEL.



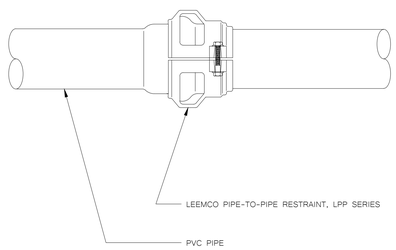
5 LEEMCO 45 ELBOW WITH JOINT RESTRAINTS DETAIL

NOTES:
1. REFER TO LEEMCO MANUEL FOR JOINT RESTRAINT REQUIREMENTS FOR ALL FITTINGS.
   L = LENGTH IN WHICH JOINT RESTRAINT IS REQUIRED
2. ALL LEEMCO HARDWARE TO BE STAINLESS STEEL.



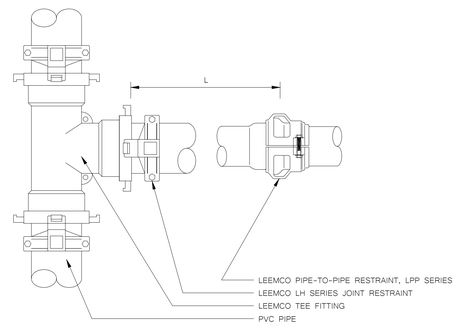
6 LEEMCO ELBOW WITH JOINT RESTRAINTS DETAIL

NOTES:
1. ALL LEEMCO HARDWARE TO BE STAINLESS STEEL.



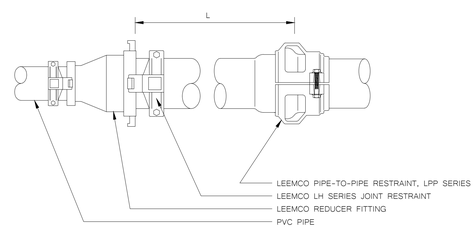
7 LEEMCO BELL JOINT RESTRAINTS DETAIL

NOTES:
1. REFER TO LEEMCO MANUEL FOR JOINT RESTRAINT REQUIREMENTS FOR ALL FITTINGS.
   L = LENGTH IN WHICH JOINT RESTRAINT IS REQUIRED
2. ALL LEEMCO HARDWARE TO BE STAINLESS STEEL.



8 LEEMCO TEE WITH JOINT RESTRAINTS DETAIL

NOTES:
1. REFER TO LEEMCO MANUEL FOR JOINT RESTRAINT REQUIREMENTS FOR ALL FITTINGS.
   L = LENGTH IN WHICH JOINT RESTRAINT IS REQUIRED
2. ALL LEEMCO HARDWARE TO BE STAINLESS STEEL.



9 LEEMCO REDUCER WITH JOINT RESTRAINTS DETAIL

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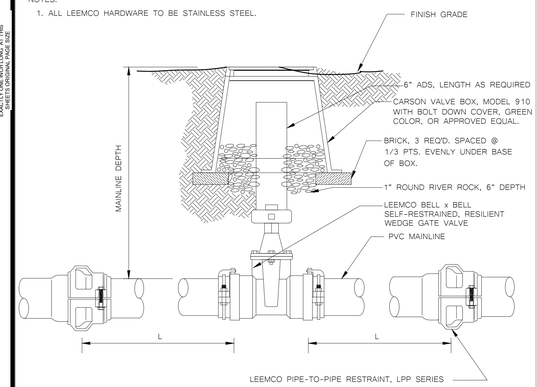
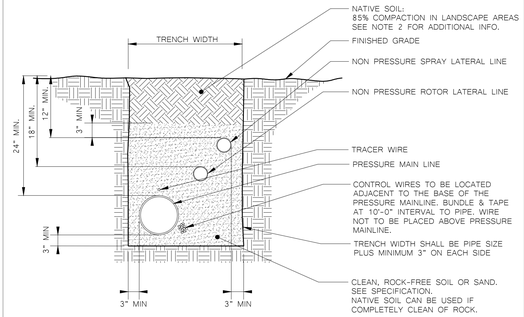
NOTES:
1. ALL LEEMCO HARDWARE TO BE STAINLESS STEEL.



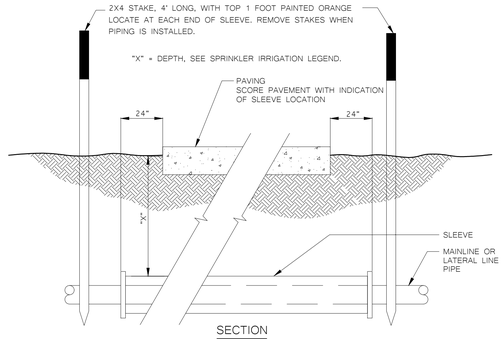
1 LEEMCO SELF-RESTRAINED GATE VALVE DETAIL

NOTES:
1. REFER TO SPECIFICATIONS AND PLAN SHEETS FOR MORE INFORMATION.
2. WHEN TRENCHES ARE LOCATED UNDER PAVEMENT, COMPACTION RATE FOR THE BACKFILL SHALL COMPLY WITH THE COMPACTION RATES REQUIRED FOR THOSE PAVING SECTIONS.
3. PIPES TO HAVE A MINIMUM OF 6" HORIZONTAL SEPARATION WHEN PLACED IN THE SAME TRENCH ALONG WITH A MINIMUM OF 6" VERTICAL SEPARATION BETWEEN PIPES.



2 PIPE TRENCH DETAIL

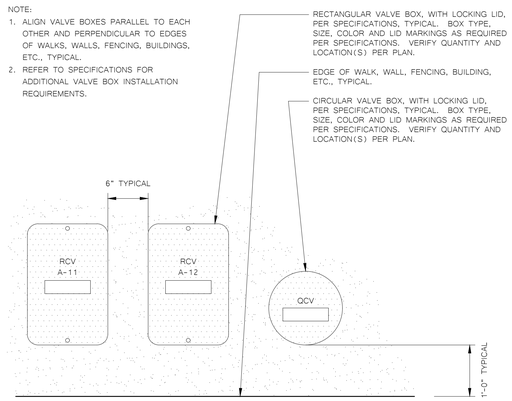
NOTES:
1. ALL PIPE AND FITTINGS TO BE SCHEDULE 40, P.V.C.
2. SLEEVES TO BE LARGE ENOUGH TO ACCEPT THE PIPE AND FITTINGS TO BE ENCASED.
3. PROVIDE A SEPARATE SLEEVE FOR EACH LATERAL OR MAIN CROSSING.
4. PROVIDE A SEPARATE SLEEVE FOR CONTROL WIRE
5. TAPE ALL ENDS WITH DUCT TAPE TO PREVENT ENTRY OF SOIL.



SECTION

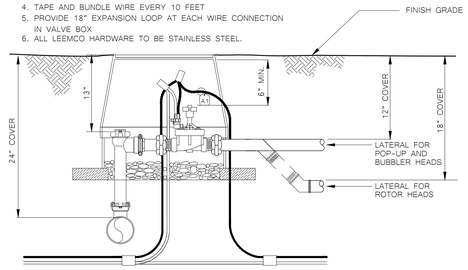
3 SLEEVE DETAIL

NOTE:
1. ALIGN VALVE BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGES OF WALKS, WALLS, FENCING, BUILDINGS, ETC., TYPICAL.
2. REFER TO SPECIFICATIONS FOR ADDITIONAL VALVE BOX INSTALLATION REQUIREMENTS.



4 TYPICAL VALVE BOX LAYOUT

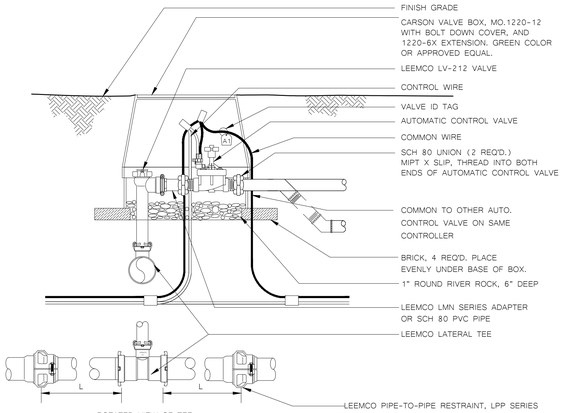
NOTES:
1. SET VALVE BOX LEVEL, PLACE LOCATOR INSIDE. VALVE BOX TO BE LEVEL WITH GRADE.
2. INSTALL VALVE BOX EXTENSIONS AS REQUIRED.
3. CONNECT ALL WIRES WITH WEATHER TIGHT CONNECTORS. SPLICES IN WIRE SHALL BE PERMITTED ONLY AT VALVE LOCATIONS.
4. TAPE AND BUNDLE WIRE EVERY 10 FEET
5. PROVIDE 18" EXPANSION LOOP AT EACH WIRE CONNECTION IN VALVE BOX
6. ALL LEEMCO HARDWARE TO BE STAINLESS STEEL.



6. FOR VALVES WITH PRESSURE REGULATION FEATURE, SET VALVE PRESSURE AS PER MANUFACTURERS RECOMMENDATIONS TO THE PRESSURE AS FOLLOWS:

POP-UP SPRAY HEADS:	35 - 40 PSI
INTERMEDIATE POP-UP ROTOR HEADS:	50 - 55 PSI
POP-UP ROTOR HEADS:	60 - 70 PSI
BUBBLER HEADS:	30 - 40 PSI
DRIP SYSTEMS:	15 - 20 PSI

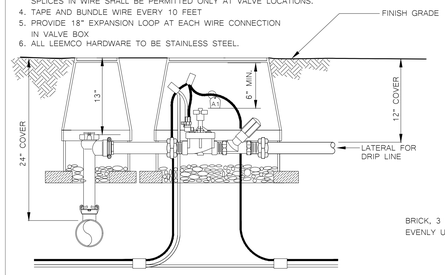
VALVE BOX, SETTINGS, AND CLEARANCES



COMPONENTS INSTALLATION

5 AUTOMATIC CONTROL VALVE/LEEMCO ANGLE VALVE DETAIL

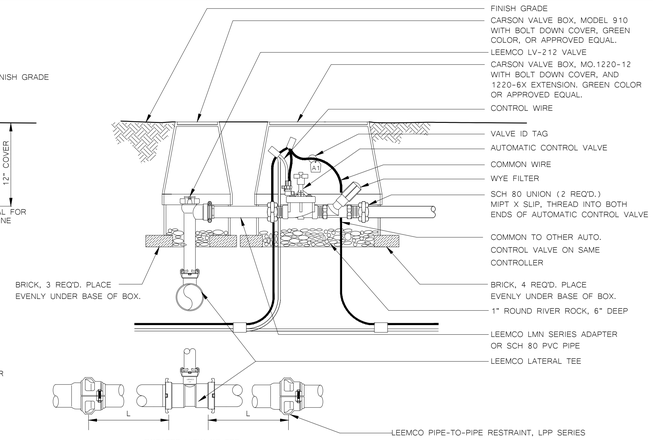
NOTES:
1. SET VALVE BOX LEVEL, PLACE LOCATOR INSIDE. VALVE BOX TO BE LEVEL WITH GRADE.
2. INSTALL VALVE BOX EXTENSIONS AS REQUIRED.
3. CONNECT ALL WIRES WITH WEATHER TIGHT CONNECTORS. SPLICES IN WIRE SHALL BE PERMITTED ONLY AT VALVE LOCATIONS.
4. TAPE AND BUNDLE WIRE EVERY 10 FEET
5. PROVIDE 18" EXPANSION LOOP AT EACH WIRE CONNECTION IN VALVE BOX
6. ALL LEEMCO HARDWARE TO BE STAINLESS STEEL.



6. FOR VALVES WITH PRESSURE REGULATION FEATURE, SET VALVE PRESSURE AS PER MANUFACTURERS RECOMMENDATIONS TO THE PRESSURE AS FOLLOWS:

DRIP SYSTEMS:	25 - 30 PSI

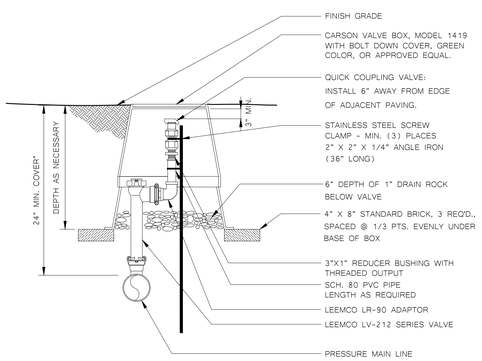
VALVE BOX, SETTINGS, AND CLEARANCES



COMPONENTS INSTALLATION

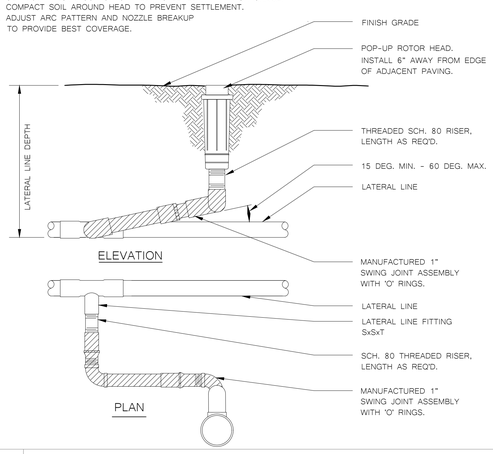
6 AUTOMATIC CONTROL DRIP VALVE/LEEMCO ANGLE VALVE DETAIL

NOTES:
1. INSTALL VALVE BOXES SO THAT THE TOP OF THE BOX IS FLUSH WITH THE TOP OF ADJACENT SURFACE.
2. USE TEFLON TAPE ON ALL THREADED CONNECTIONS.
3. ALL LEEMCO HARDWARE TO BE STAINLESS STEEL.



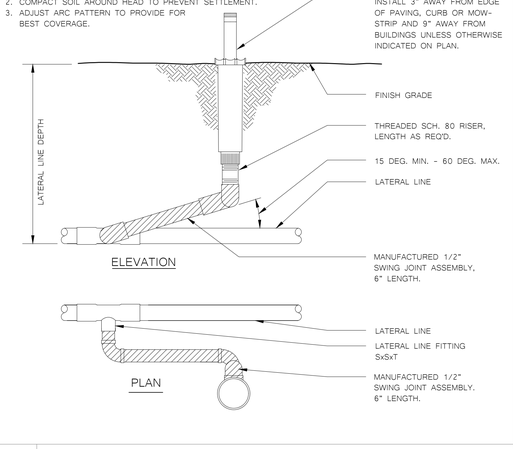
7 QUICK COUPLING VALVE/LEEMCO ANGLE VALVE DETAIL

NOTES:
1. SET BODY PLUMB SO TOP OF HEAD IS LEVEL WITH FINISH GRADE.
2. COMPACT SOIL AROUND HEAD TO PREVENT SETTLEMENT.
3. ADJUST ARC PATTERN AND NOZZLE BREAKUP TO PROVIDE BEST COVERAGE.



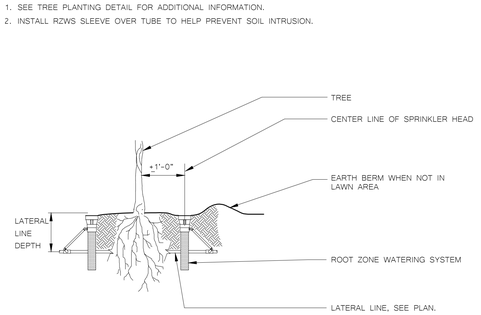
8 POP-UP ROTOR HEAD DETAIL

NOTES:
1. SET BODY PLUMB SO TOP OF HEAD IS LEVEL WITH FINISH GRADE.
2. COMPACT SOIL AROUND HEAD TO PREVENT SETTLEMENT.
3. ADJUST ARC PATTERN TO PROVIDE FOR BEST COVERAGE.



9 POP-UP SPRINKLER HEAD DETAIL

NOTES:
1. SEE TREE PLANTING DETAIL FOR ADDITIONAL INFORMATION.
2. INSTALL RZWS SLEEVE OVER TUBE TO HELP PREVENT SOIL INTRUSION.



10 TREE BUBBLER HEAD DETAIL

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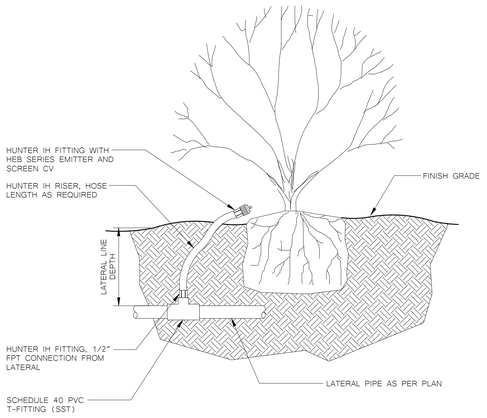

1	SHRUB BUBBLER DETAIL

PLACEHOLDER

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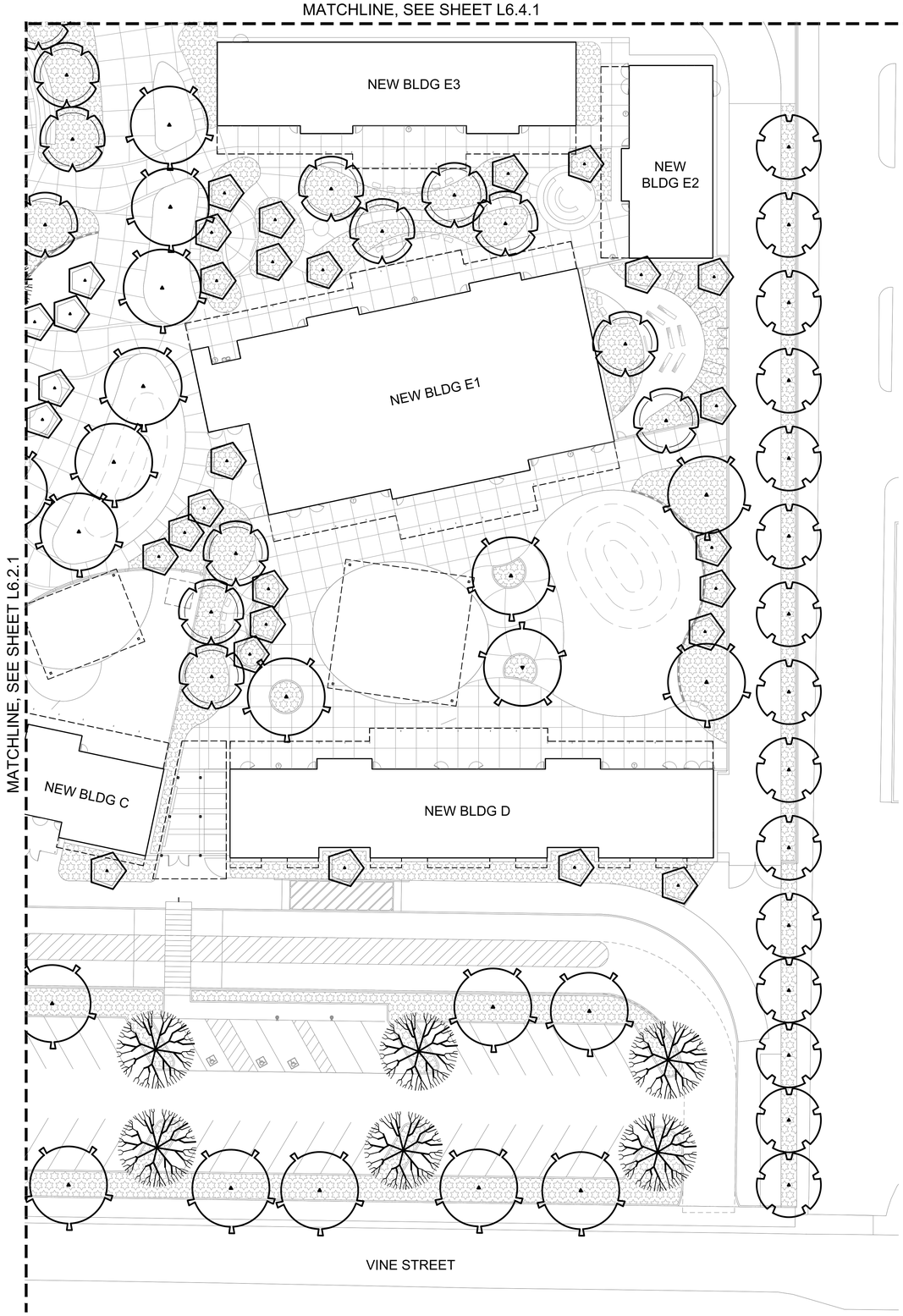
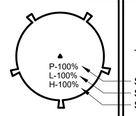


KEY | TREE SHADING LEGEND



TREES - NOT ALL SYMBOLS SHOWN
WITH TREE SHADING CANOPY PERCENTAGE

SHADE PERCENTAGE: PARKING LOT
SHADE PERCENTAGE: LANDSCAPE
SHADE PERCENTAGE: HARDSCAPE

AREA USED AS 'TOTAL PAVED AREA'

AREA USED AS 'TOTAL LANDSCAPE AREA'

AREA USED AS 'TOTAL HARDSCAPE AREA'

PARKING LOT SHADING (50% WITHIN 20 YEARS)

TREES	100%	75%	50%	25%
EXISTING	00 (962) = 0000 S.F.	00 (721) = 0000 S.F.	00 (481) = 0000 S.F.	00 (240) = 0000 S.F.
35'=	00 (962) = 0000 S.F.	00 (721) = 0000 S.F.	00 (481) = 0000 S.F.	00 (240) = 0000 S.F.
30'	00 (707) = 0000 S.F.	00 (530) = 0000 S.F.	00 (354) = 0000 S.F.	00 (177) = 0000 S.F.
25'	00 (491) = 0000 S.F.	00 (368) = 0000 S.F.	00 (246) = 0000 S.F.	00 (123) = 0000 S.F.
20'	00 (314) = 0000 S.F.	00 (236) = 0000 S.F.	00 (157) = 0000 S.F.	00 (79) = 0000 S.F.
SUB-TOTALS	0000 S.F.	0000 S.F.	0000 S.F.	0000 S.F.

TOTAL PAVED AREA = 00,000 S.F.

TOTAL SHADED AREA = 00,000 S.F.

PERCENTAGE OF SHADE = 00.0%

LANDSCAPE SHADING (20% WITHIN 15 YEARS)

TREES	100%	75%	50%	25%
EXISTING	00 (962) = 0000 S.F.	00 (721) = 0000 S.F.	00 (481) = 0000 S.F.	00 (240) = 0000 S.F.
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TOTAL PAVED AREA = 00,000 S.F.

TOTAL SHADED AREA = 00,000 S.F.

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HARDSCAPE SHADING (20% WITHIN 15 YEARS)

TREES	100%	75%	50%	25%
EXISTING	00 (962) = 0000 S.F.	00 (721) = 0000 S.F.	00 (481) = 0000 S.F.	00 (240) = 0000 S.F.
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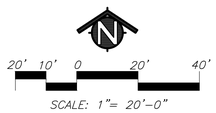

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Δ DESCRIPTION DATE

KEYNOTES

NOTES

25-31

MTW group
LANDSCAPE ARCHITECTURE AND PLANNING
2707 K Street, Suite 201
Sacramento, CA 95816
916 369-3990

LICENSED LANDSCAPE ARCHITECT 4902 CERTIFIED 12/31/2027 STATE OF CALIFORNIA

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FACILITY:
SAMUEL M. GANTNER ELEMENTARY SCHOOL
1305 E VINE ST,
LODI, CA 95240

PROJECT:
SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1

SHEET NAME:
TREE SHADING PLAN

DESIGN DEVELOPMENT

DATE: **09/26/2025** | CLIENT PROJ NO:

SHEET:

L6.1.1

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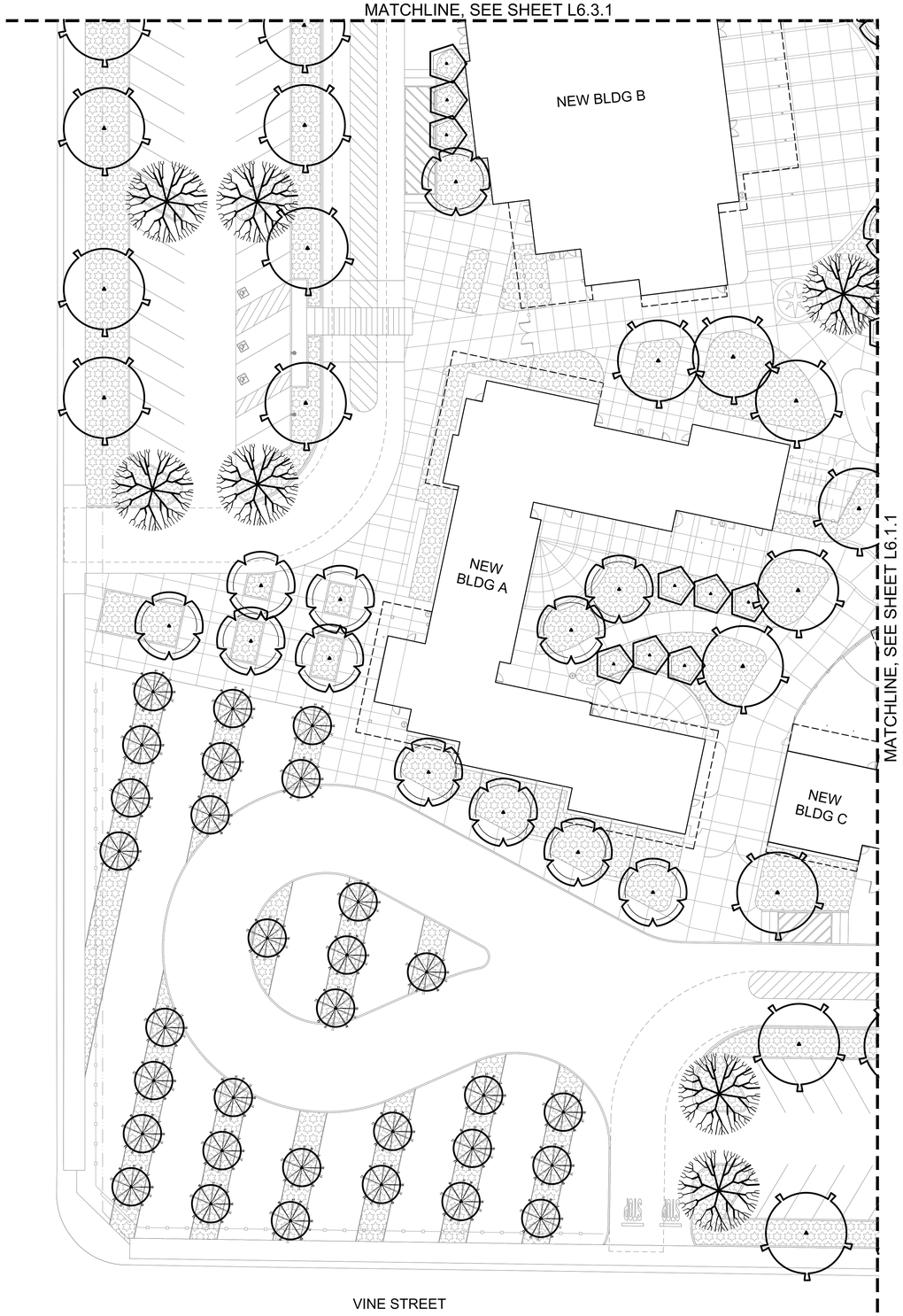
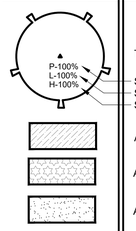


KEY — TREE SHADING LEGEND



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SUB-TOTALS	0000 S.F.	0000 S.F.	0000 S.F.	0000 S.F.

TOTAL PAVED AREA = 00,000 S.F.

TOTAL SHADED AREA = 00,000 S.F.

PERCENTAGE OF SHADE = 00.0%

LANDSCAPE SHADING (20% WITHIN 15 YEARS)

TREES	100%	75%	50%	25%
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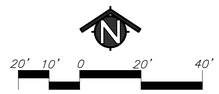

SCALE: 1"= 20'-0"

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FACILITY:
SAMUEL M. GANTNER ELEMENTARY SCHOOL
1305 E VINE ST,
LODI, CA 95240

PROJECT:
SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1

SHEET NAME:
TREE SHADING PLAN

DESIGN DEVELOPMENT

DATE: **09/26/2025** | CLIENT PROJ NO:

SHEET:

L6.2.1

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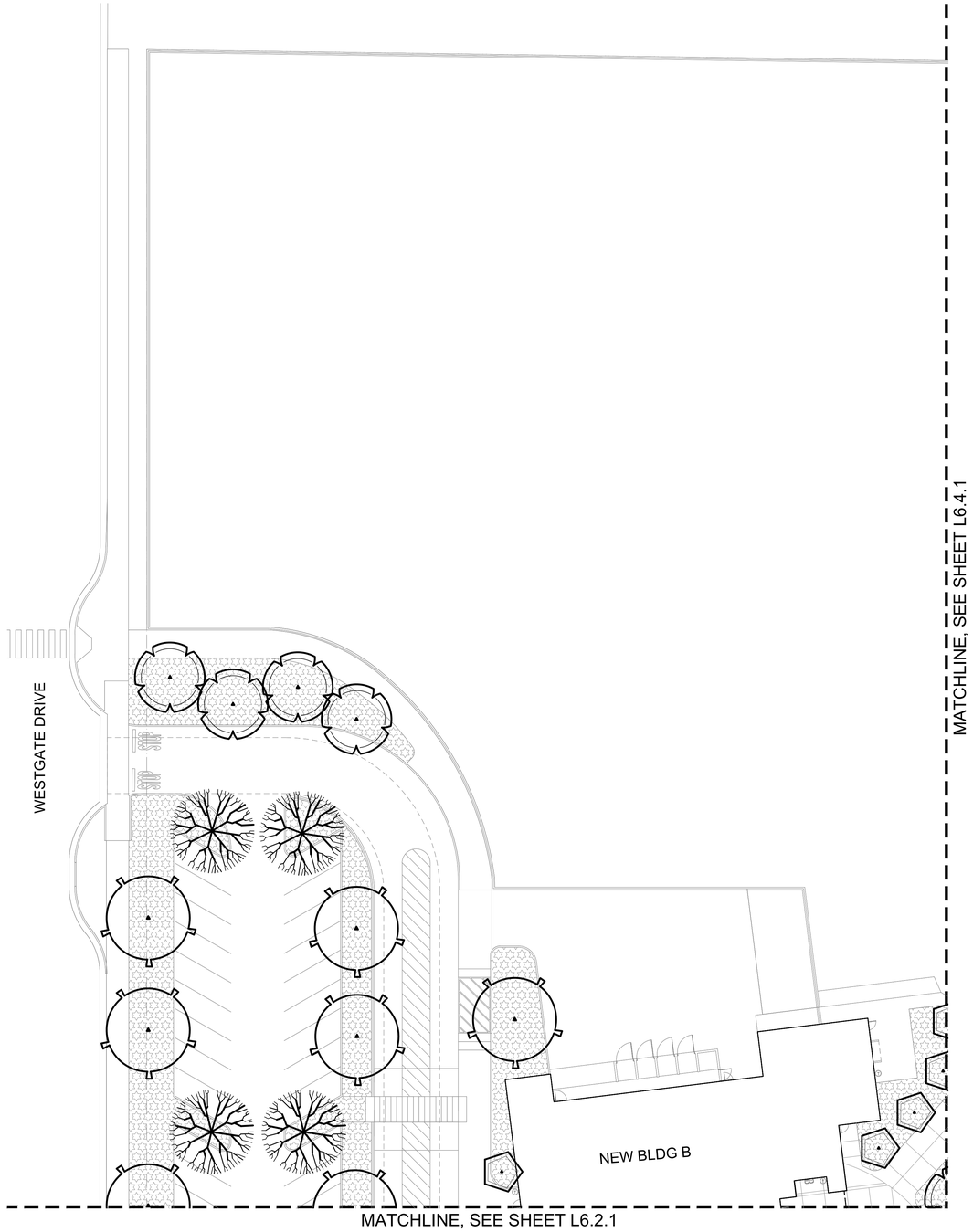
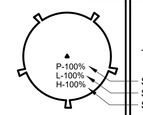


KEY — TREE SHADING LEGEND



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SUB-TOTALS	0000 S.F.	0000 S.F.	0000 S.F.	0000 S.F.

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20' 10' 0 20' 40'

SCALE: 1"= 20'-0"

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Sacramento, CA 95816
916 369-3990

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SAMUEL M. GANTNER ELEMENTARY SCHOOL
1305 E VINE ST,
LODI, CA 95240

PROJECT:
SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1

SHEET NAME:
TREE SHADING PLAN

DESIGN DEVELOPMENT

DATE: **09/26/2025** | CLIENT PROJ NO:

SHEET:

L6.3.1

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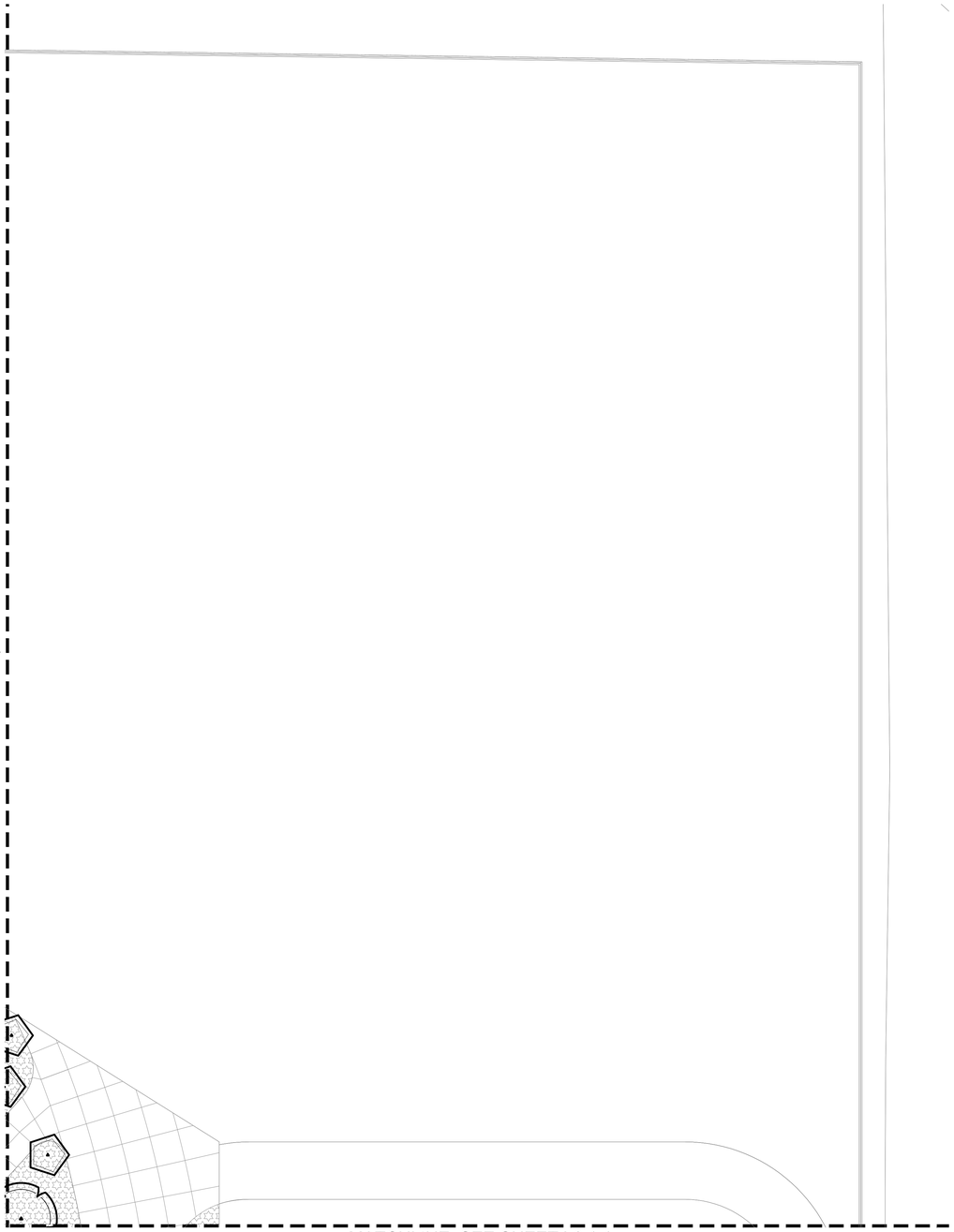
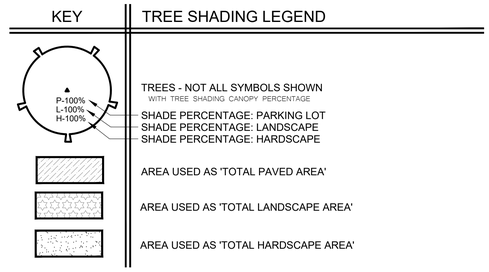
MATCHLINE, SEE SHEET L6.3.1



MATCHLINE, SEE SHEET L6.1.1



PARKING LOT SHADING (50% WITHIN 20 YEARS)

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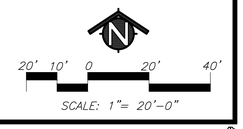

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Sacramento, CA 95816
916 369-3990

LICENSED LANDSCAPE ARCHITECT MARK T. WELLER No. 2453 CALIFORNIA

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PROJECT:
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SHEET NAME:
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DESIGN DEVELOPMENT

DATE: **09/26/2025** | CLIENT PROJ NO:

SHEET:

L6.4.1

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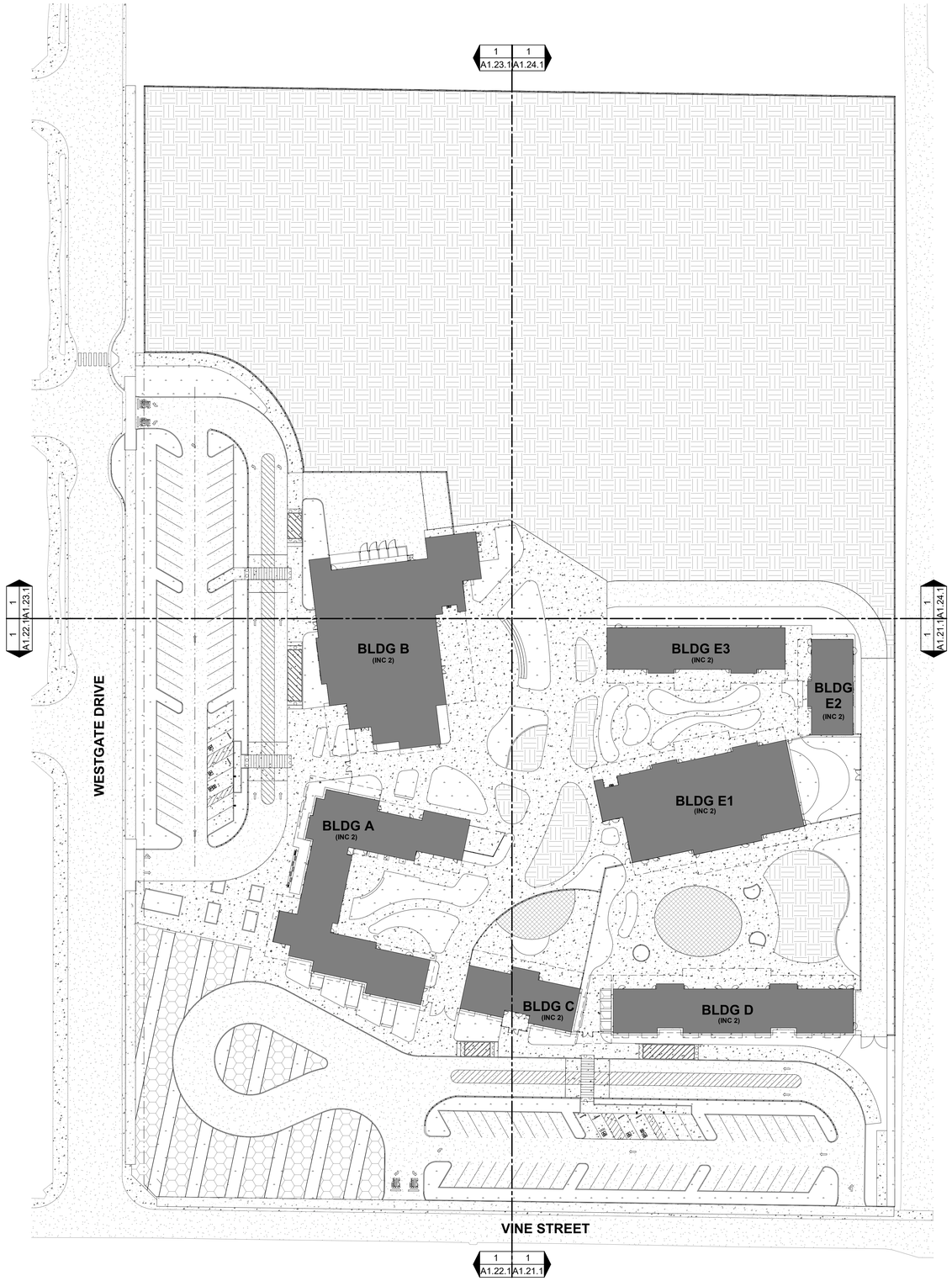

LEGEND

- PROPERTY LINE
- MATCHLINE
- PAINTED FIRE LANE, NO PARKING LINE
- NEW BUILDING PHASE 1
- NEW BUILDING PHASE 2
- PHASE 1 FIRE LANE
- PHASE 2 FIRE LANE
- CONCRETE
- ASPHALT
- GRASS, SEE LANDSCAPE
- ARTIFICIAL TURF, SEE LANDSCAPE
- PLANTING, SEE LANDSCAPE
- GRAVEL, SEE LANDSCAPE
- UPDATE — DECOMPOSED GRAVEL, SEE LANDSCAPE
- CHAINLINK FENCE
- DECORATE METAL FENCING

TN

OVERALL SITE PLAN 1
1" = 40'-0"

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KEYNOTES

NOTES

1. REFER TO SHEET G0.11 FOR TYPICAL SYMBOLS AND ABBREVIATIONS
2. REFER TO LANDSCAPE DRAWINGS FOR PAVING AND PLANTING INFORMATION
3. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR UTILITY INFORMATION
4. CONTRACTOR IS RESPONSIBLE FOR REPAIR/REPLACEMENT OF ALL HARDSCAPE/PLANTING OUTSIDE OF LIMIT OFWORK LINE FOR CONNECTION OF UNDERGROUND UTILITIES

FACILITY:
SAMUEL M. GANTNER ELEMENTARY SCHOOL
LODI, CA

PROJECT:
SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1

SHEET NAME:
CAMPUS SITE PLAN

DESIGN DEVELOPMENT

DATE: **2025-09-26** | CLIENT PROJ NO:

SHEET:

A1.11.1

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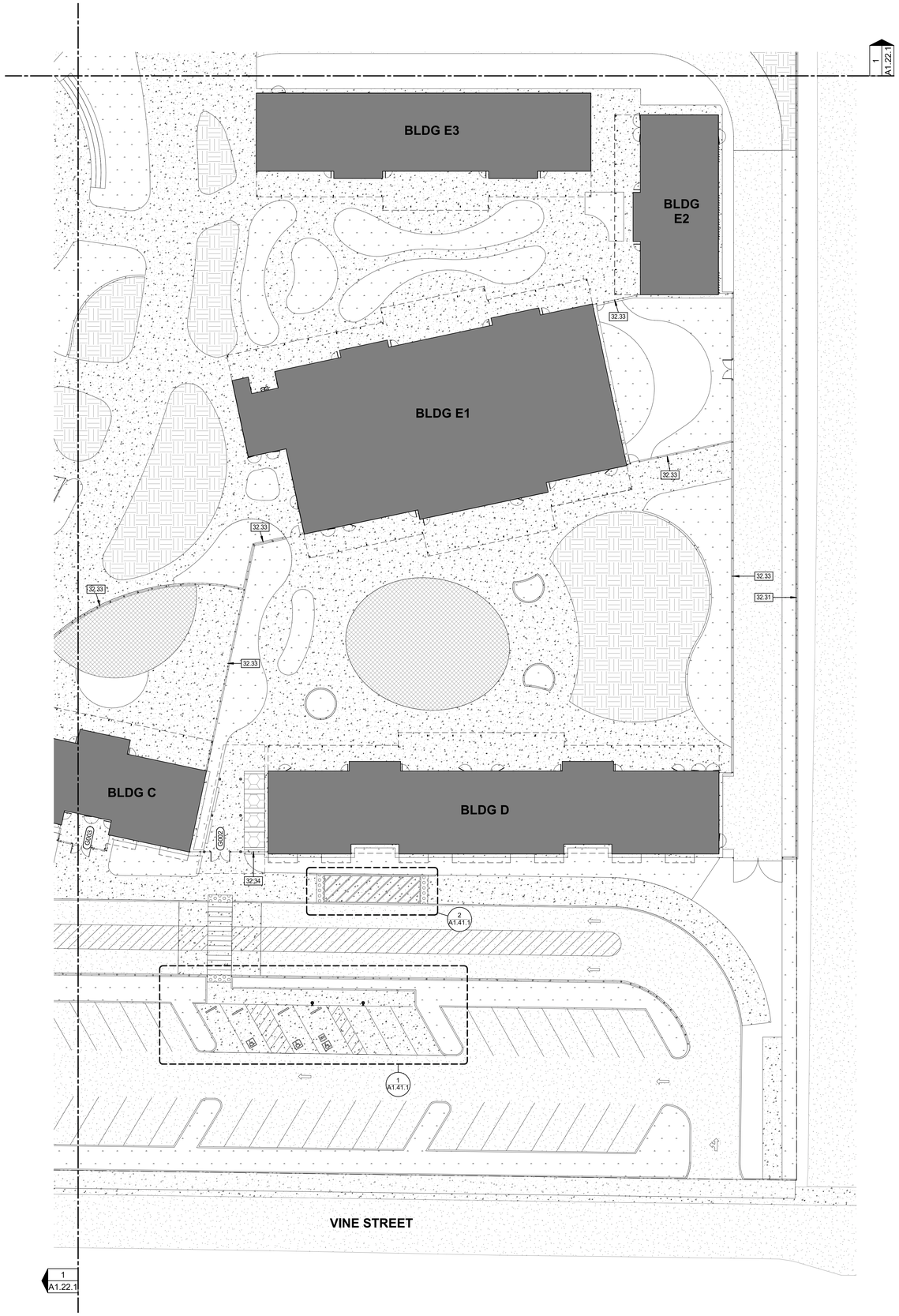

TN

PARTIAL SITE PLAN - SEGMENT 1 | 1 | 1" = 20'-0"

LEGEND

- PROPERTY LINE
- MATCHLINE
- PAINTED FIRE LANE, NO PARKING LINE
- NEW BUILDING PHASE 1
- NEW BUILDING PHASE 2
- PHASE 1 FIRE LANE
- PHASE 2 FIRE LANE
- CONCRETE
- ASPHALT
- GRASS, SEE LANDSCAPE
- ARTIFICIAL TURF, SEE LANDSCAPE
- PLANTING, SEE LANDSCAPE
- GRAVEL, SEE LANDSCAPE
- UPDATE — DECOMPOSED GRAVEL, SEE LANDSCAPE
- CHAINLINK FENCE
- DECORATE METAL FENCING

KEYNOTES

32.31	7'-0" HIGH CHAIN LINK FENCING
32.33	4'-0" HIGH DECORATIVE METAL FENCING
32.34	7'-0" HIGH DECORATIVE METAL FENCING

NOTES

1. REFER TO SHEET G0.11 FOR TYPICAL SYMBOLS AND ABBREVIATIONS
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FACILITY:
SAMUEL M. GANTNER ELEMENTARY SCHOOL
LODI, CA

PROJECT:
SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1

SHEET NAME:
PARTIAL SITE PLAN - SEGMENT 1

DESIGN DEVELOPMENT

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PARTIAL SITE PLAN - SEGMENT 2 | 1 | 1" = 20'-0"

LEGEND

- PROPERTY LINE
- MATCHLINE
- PAINTED FIRE LANE, NO PARKING LINE
- NEW BUILDING PHASE 1
- NEW BUILDING PHASE 2
- PHASE 1 FIRE LANE
- PHASE 2 FIRE LANE
- CONCRETE
- ASPHALT
- GRASS, SEE LANDSCAPE
- ARTIFICIAL TURF, SEE LANDSCAPE
- PLANTING, SEE LANDSCAPE
- GRAVEL, SEE LANDSCAPE
- UPDATE — DECOMPOSED GRAVEL, SEE LANDSCAPE
- CHAINLINK FENCE
- DECORATE METAL FENCING

KEYNOTES

10.92	FLAGPOLE
32.31	7'-0" HIGH CHAIN LINK FENCING
32.33	4'-0" HIGH DECORATIVE METAL FENCING
32.34	7'-0" HIGH DECORATIVE METAL FENCING

NOTES

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PROJECT:
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SHEET NAME:
PARTIAL SITE PLAN - SEGMENT 2

DESIGN DEVELOPMENT

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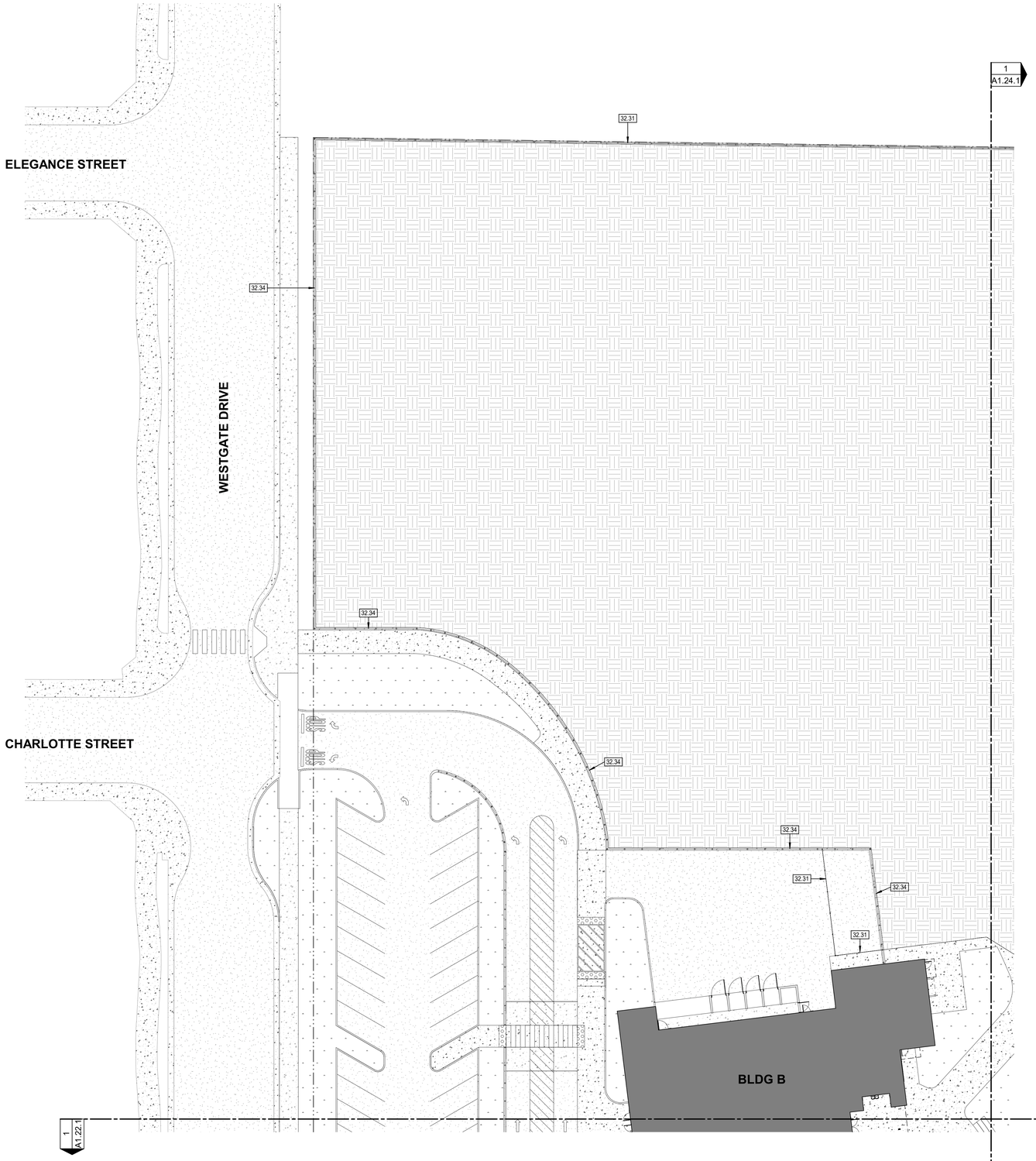

LEGEND

- PROPERTY LINE
- MATCHLINE
- PAINTED FIRE LANE, NO PARKING LINE
- NEW BUILDING PHASE 1
- NEW BUILDING PHASE 2
- PHASE 1 FIRE LANE
- PHASE 2 FIRE LANE
- CONCRETE
- ASPHALT
- GRASS, SEE LANDSCAPE
- ARTIFICIAL TURF, SEE LANDSCAPE
- PLANTING, SEE LANDSCAPE
- GRAVEL, SEE LANDSCAPE
- UPDATE — DECOMPOSED GRAVEL, SEE LANDSCAPE
- CHAINLINK FENCE
- DECORATE METAL FENCING

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KEYNOTES

32.31	7'-0" HIGH CHAIN LINK FENCING
32.34	7'-0" HIGH DECORATIVE METAL FENCING

NOTES

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FACILITY:
SAMUEL M. GANTNER ELEMENTARY SCHOOL
LODI, CA

PROJECT:
SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1

SHEET NAME:
PARTIAL SITE PLAN - SEGMENT 3

DESIGN DEVELOPMENT

DATE: **2025-09-26**
CLIENT PROJ NO:

SHEET:

A1.23.1

PARTIAL SITE PLAN - SEGMENT 3 **1** 1" = 20'-0"

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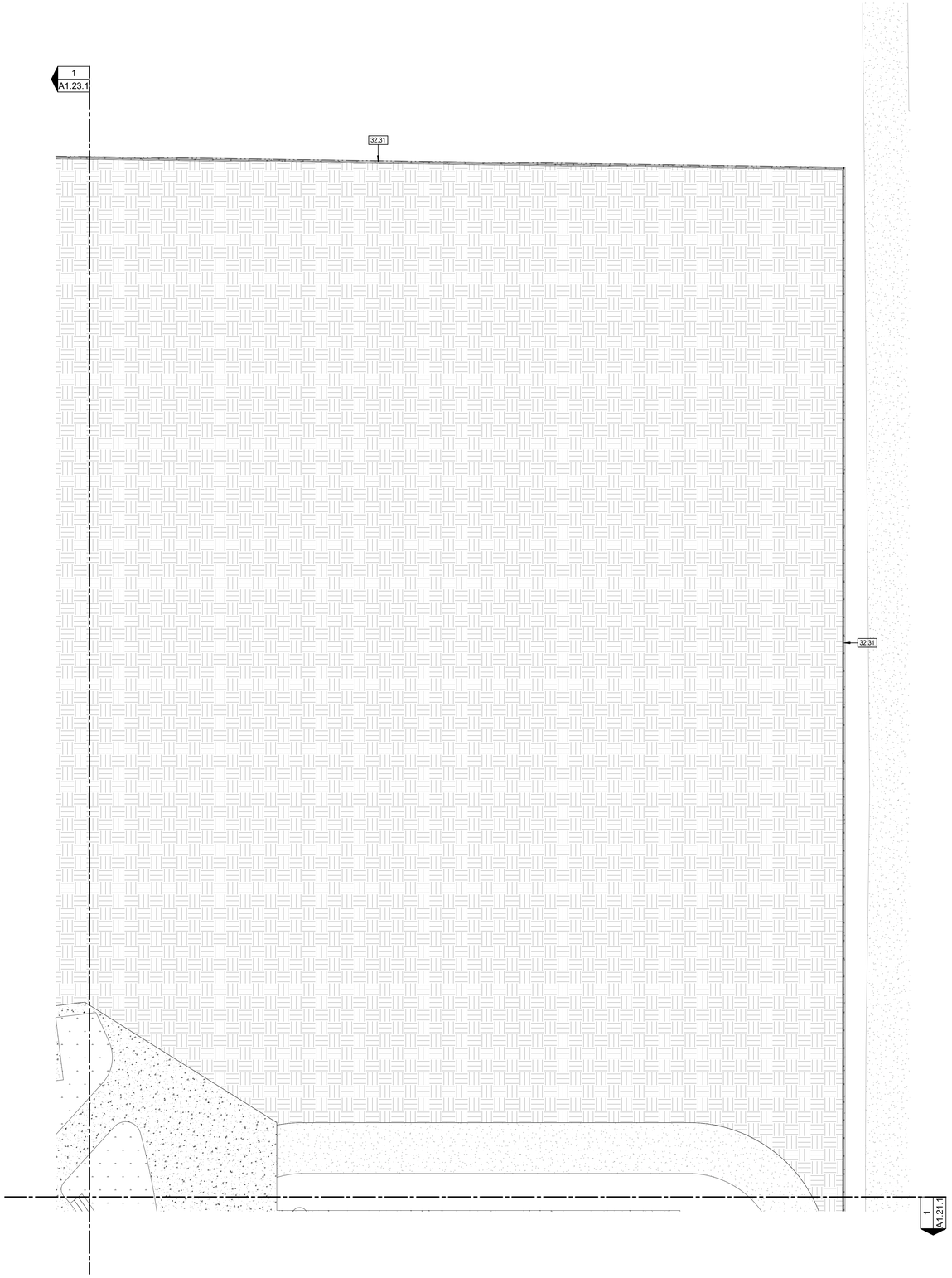

LEGEND

- PROPERTY LINE
- MATCHLINE
- PAINTED FIRE LANE, NO PARKING LINE
- NEW BUILDING PHASE 1
- NEW BUILDING PHASE 2
- PHASE 1 FIRE LANE
- PHASE 2 FIRE LANE
- CONCRETE
- ASPHALT
- GRASS, SEE LANDSCAPE
- ARTIFICIAL TURF, SEE LANDSCAPE
- PLANTING, SEE LANDSCAPE
- GRAVEL, SEE LANDSCAPE
- UPDATE — DECOMPOSED GRAVEL, SEE LANDSCAPE
- CHAINLINK FENCE
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KEYNOTES

32.31 7'-0" HIGH CHAIN LINK FENCING

NOTES

1. REFER TO SHEET G0.11 FOR TYPICAL SYMBOLS AND ABBREVIATIONS
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FACILITY:
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LODI, CA

PROJECT:
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SHEET NAME:
PATRIAL SITE PLAN - SEGMENT 4

DESIGN DEVELOPMENT

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PARTIAL SITE PLAN - SEGMENT 4 **1** 1" = 20'-0"

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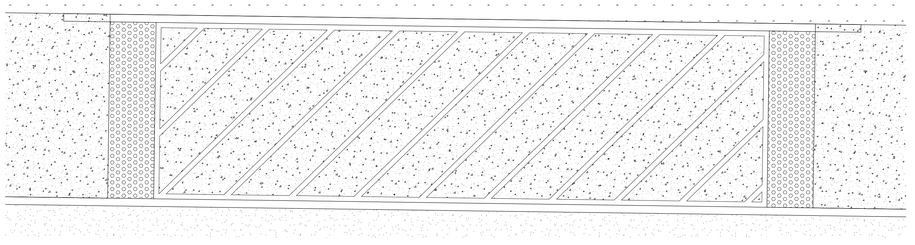
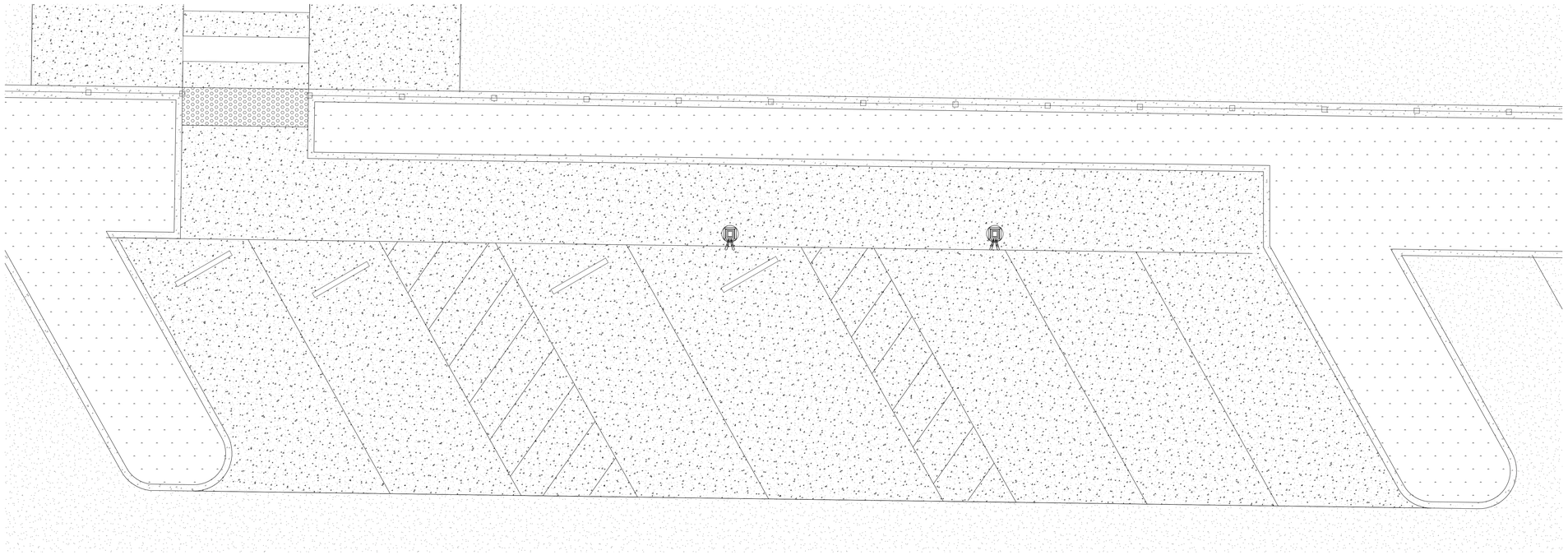


ENLARGED SITE PLAN A - Callout 2 — 2 — 1/4" = 1'-0"



ENLARGED SITE PLAN A - Callout 1 — 1 — 1/4" = 1'-0"

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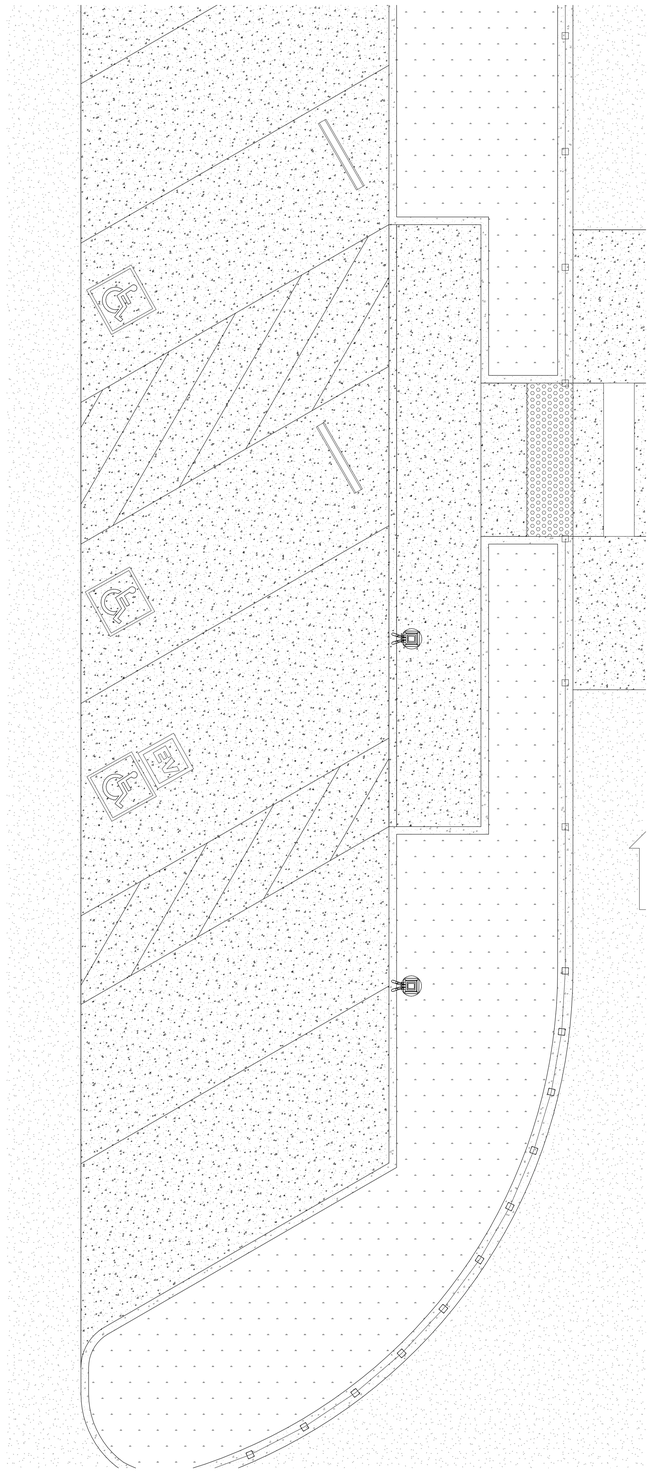

ENLARGED SITE PLAN A - Callout 3 | **1** 1/4" = 1'-0"

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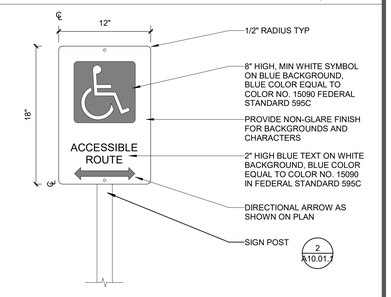
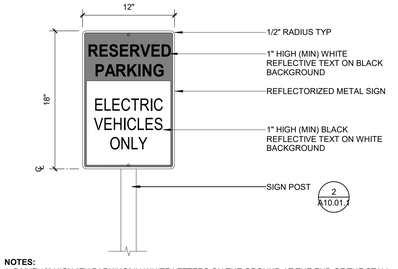


10.14.32.01

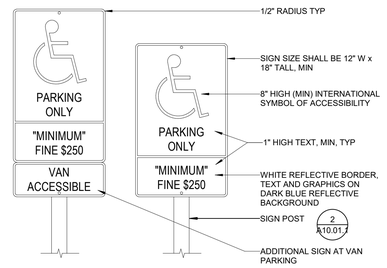
ACCESIBLE ROUTE SIGN PANEL | **4** | 1 1/2" = 1'-0"



NOTES:
1. PAINT 12" HIGH "EV PARKING" IN WHITE LETTERS ON THE GROUND AT THE END OF THE STALL
2. IDENTIFICATION OF ACCESSIBLE EVCS STALLS SHALL BE PROVIDED PER 11B-812.8.

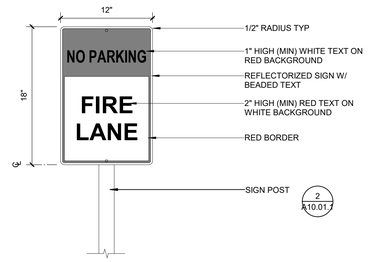
10.14.30.01

RESERVED PARKING SIGN PANEL | **8** | 1 1/2" = 1'-0"



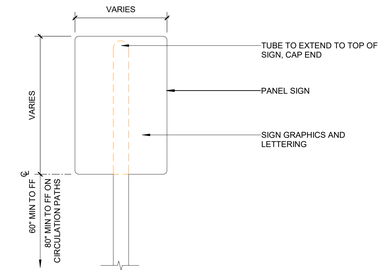
10.14.33.01

ACCESSIBLE PARKING SIGN PANEL | **3** | 1 1/2" = 1'-0"



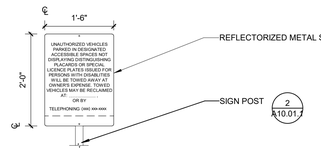
10.14.31.01

NO PARKING SIGN PANEL | **7** | 1 1/2" = 1'-0"



10.14.34.01

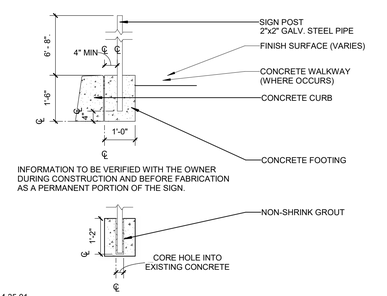
GENERAL EXTERIOR POST-MOUNTED SIGN PANEL | **2** | 1 1/2" = 1'-0"



NOTE:
1. A REFLECTORAIZED SIGN SHALL BE PERMANENTLY POSTED IN A CONSPICUOUS PLACE AT EACH ENTRANCE TO OFF-STREET PARKING FACILITIES OR IMMEDIATELY ADJACENT TO AND VISIBLE FROM EACH STALL OR SPACE. THE SIGN SHALL NOT BE LESS THAN 18" BY 24" IN SIZE WITH WHITE LETTERING NOT LESS THAN 2" IN HEIGHT ON A DARK BLUE BACKGROUND.
2. SIGN SHALL NOT OBSTRUCT PASSAGE BETWEEN STALL AND ANY ACCESSIBLE WALKWAY. SEE SITE PLAN FOR ADDITIONAL INFORMATION.
3. CONFIRM RECLAMATION ADDRESS AND TELEPHONE NUMBER WITH OWNER PRIOR TO AGENCY APPROVAL.
4. RECLAMATION ADDRESS AND TELEPHONE NUMBER SHALL BE A PERMANENT PART OF THIS SIGN.
5. DARK BLUE BACKGROUND SHALL BE EQUAL TO COLOR NUMBER 15090 IN FEDERAL STANDARD 595C.

10.14.29.01

TOW-AWAY SIGN PANEL | **6** | NTS



10.14.35.01

POST-AND-PANEL SIGN BASE | **1** | 1/2" = 1'-0"

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LODI, CA

PROJECT:
SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1

SHEET NAME:
SITE SIGNAGE DETAILS

DESIGN DEVELOPMENT

DATE: **2025-09-26** | CLIENT PROJ NO:

SHEET:

A10.01.1

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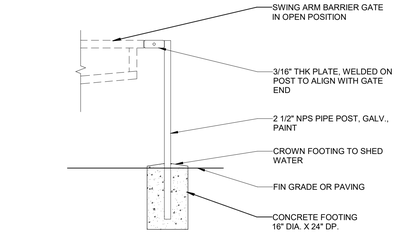
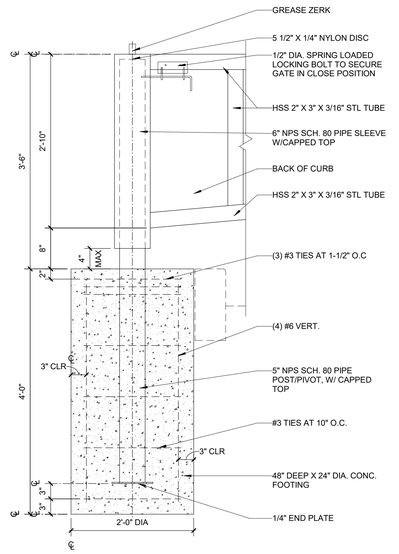


11.12.03.01

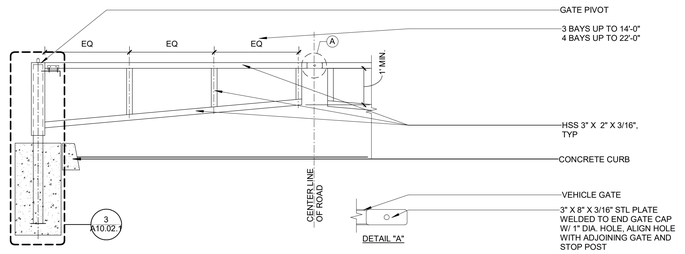
SWING ARM BARRIER GATE STOP POST - IN OPEN POSITION | **4** 1/2" = 1'-0"



NOTES:
1. GRIND ALL WELDS SMOOTH
2. ALL WELDS ARE TO BE CONTINUOUS
3. PRIME STEEL COMPONENTS PRIOR TO INSTALLATION
4. ALL STEEL COMPONENTS TO BE PAINTED YELLOW

11.12.01.01

SWING ARM BARRIER GATE | **3** 1" = 1'-0"



11.12.02.01

SWING ARM BARRIER GATE ELEVATION | **2** 3/8" = 1'-0"

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LODI, CA

PROJECT:
SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1

SHEET NAME:
SITE DETAILS

DESIGN DEVELOPMENT

DATE: **2025-09-26** | CLIENT PROJ NO:

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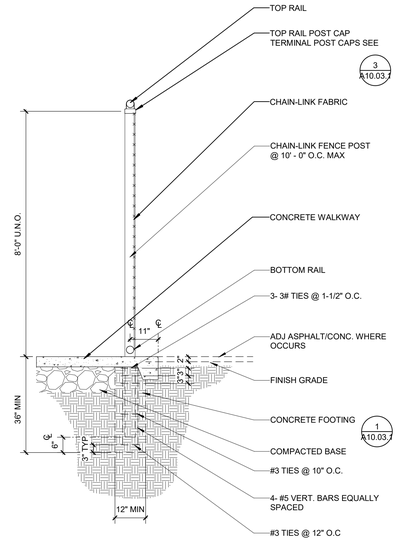
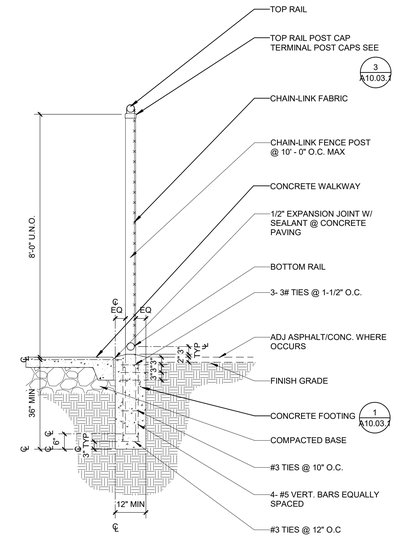


NOTE:
THIS FENCE IS DESIGNED TO ACCEPT SLATS OR A WINDSCREEN MESH

32.31.12.01

CHAIN-LINK FENCE AT PAVING 9

1/2" = 1'-0"

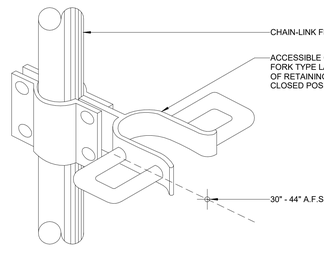


NOTE:
THIS FENCE IS DESIGNED TO ACCEPT SLATS OR A WINDSCREEN MESH

32.31.15.01

TYP. CHAIN-LINK FENCE & POST SECTION 4

1/2" = 1'-0"



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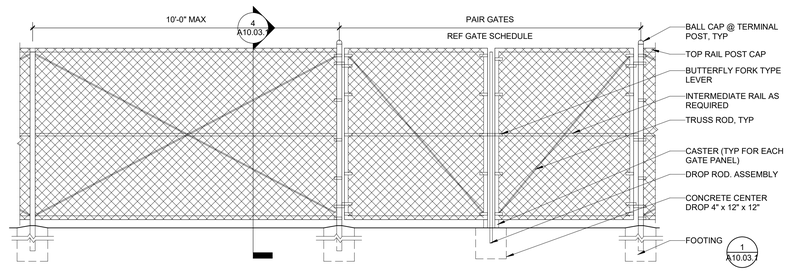
CHAIN-LINK GATE FORK LATCH 13

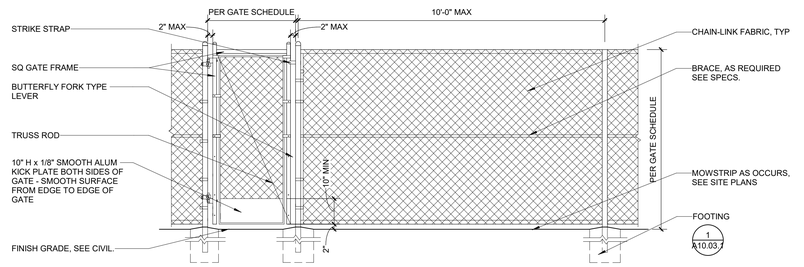
NTS



32.31.10.01

CHAIN-LINK FENCE & SWING GATE - PAIR 3

1/2" = 1'-0"



32.31.14.01

CHAIN-LINK FENCE & SWING GATE - SINGLE 2

1/2" = 1'-0"

FENCE POSTS (SIZES ARE MIN)

FENCE HEIGHT *	LINE POST	FTG. DIA. (d)	FTG. DEPTH (h)	TERM. POST	FTG. DIA. (d)	FTG. DEPTH
UP TO 4'	1 1/2 NPS	12"	36"	1 1/2 NPS	12"	36"
UP TO 6'	1 1/2 NPS	12"	42"	2 NPS	12"	42"
UP TO 8'	2 NPS	12"	48"	2 1/2 NPS	12"	48"
UP TO 12'	2 1/2 NPS	12"	60"	3 1/2 NPS	16" **	60"
UP TO 16'	3 1/2 NPS	16" **	72"	6 NPS	28" **	72"
UP TO 20'	6 NPS	28" **	84"	8 NPS	36" **	84"

* W/O WINDSCREEN/SLATS, W/GO TO NEXT TALLER FENCE

** W/ REINFORCING

GATE POSTS (SIZES ARE MIN)

GATE WIDTH PER LEAF	GATE POST	FTG. DIA. (d)	FTG. DEPTH (h)	GATE HEIGHT
UP TO 6'	2 NPS	16" **	42"	UP TO 6'
UP TO 13'	3 1/2 NPS	16" **	42"	UP TO 8'
UP TO 18'	6 NPS	28" **	60"	UP TO 12'
UP TO 20'	8 NPS	36" **	72"	UP TO 16'
-	-	-	84"	UP TO 20'

USE ROW OF GATE HEIGHT OR GATE WIDTH WHICHEVER IS THE GREATER

32.31.11.01

CHAIN-LINK FENCE & GATE POST CRITERIA 1

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

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ISSUE

Δ	DESCRIPTION	DATE

FACILITY:
SAMUEL M. GANTNER ELEMENTARY SCHOOL
LODI, CA

PROJECT:
SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1

SHEET NAME:
CHAIN LINK FENCE DETAILS

DESIGN DEVELOPMENT

DATE: **2025-09-26**
CLIENT PROJ NO:

SHEET:
A10.03.1

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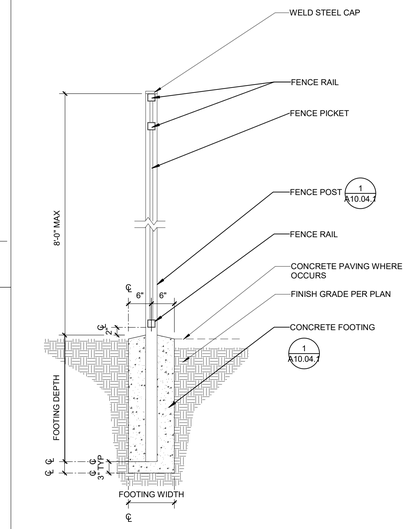

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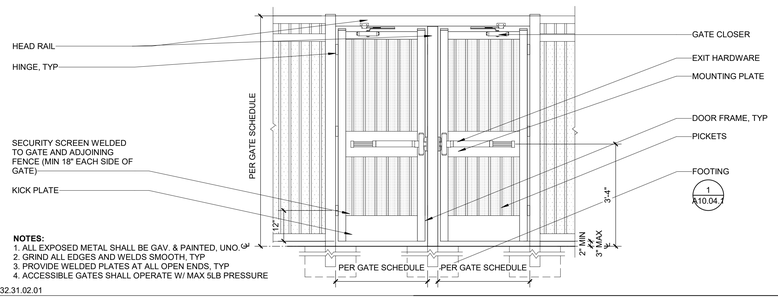
TYP. DECORATIVE FENCE SECTION 4

3/4" = 1'-0"

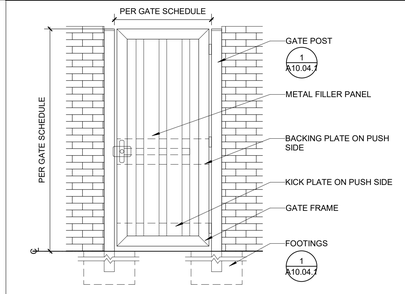


NOTES:
1. ALL EXPOSED METAL SHALL BE GAV. & PAINTED, UNO.
2. GRIND ALL EDGES AND WELDS SMOOTH, TYP
3. PROVIDE WELDED PLATES AT ALL OPEN ENDS, TYP
4. ACCESSIBLE GATES SHALL OPERATE W/ MAX 5LB PRESSURE

32.31.02.01

DECORATIVE METAL EGRESS SWING GATE - PAIR 8

1/2" = 1'-0"



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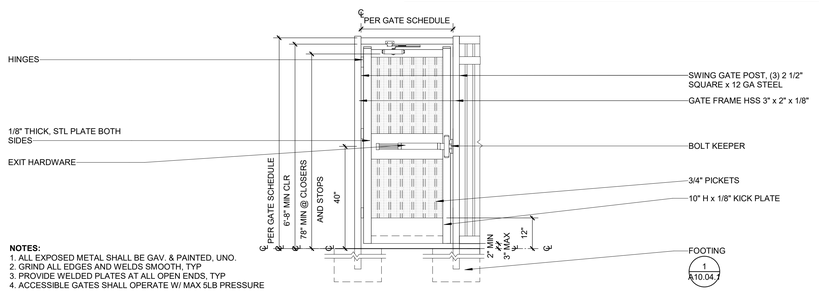
DECORATIVE METAL SECURITY SWING GATE - SINGLE 3

1/2" = 1'-0"

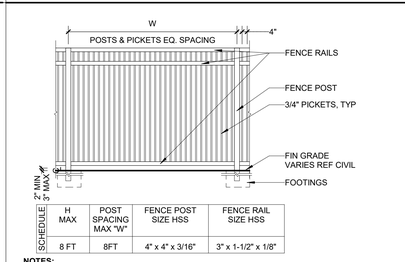


NOTES:
1. ALL EXPOSED METAL SHALL BE GAV. & PAINTED, UNO.
2. GRIND ALL EDGES AND WELDS SMOOTH, TYP
3. PROVIDE WELDED PLATES AT ALL OPEN ENDS, TYP
4. ACCESSIBLE GATES SHALL OPERATE W/ MAX 5LB PRESSURE

32.31.01.01

DECORATIVE METAL EGRESS SWING GATE - SINGLE 7

1/2" = 1'-0"



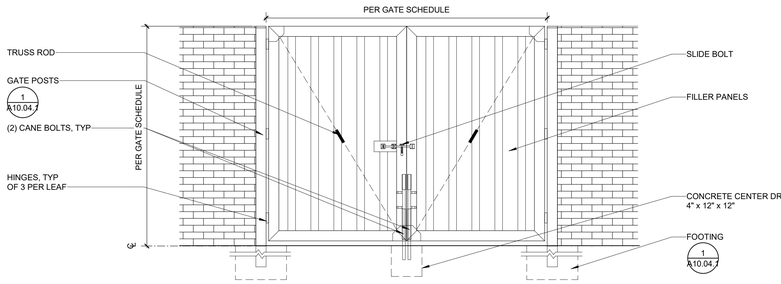
SCHEDULE	H MAX	POST SPACING MAX "W"	FENCE POST SIZE HSS	FENCE RAIL SIZE HSS
	8 FT	8FT	4" x 4" x 3/16"	3" x 1-1/2" x 1/8"

NOTES:
1. ALL EXPOSED METAL SHALL BE GALVANIZED FINISH.
2. STEP FENCE A POST AS REQ'D FOR SLOPED GRADE CONDITIONS.
3. SEE FENCES AND GATES METAL SPEC SECTION.

32.31.03.01

DECORATIVE FENCE ELEVATION 2

1/4" = 1'-0"



32.31.07.01

DECORATIVE METAL SECURITY SWING GATE - PAIR 6

1/2" = 1'-0"

O.M. FENCE POSTS (SIZES ARE MIN)

FENCE HEIGHT	POST @ 8'-0" O.C	FTG. DIA. (d)	FTG. DEPTH (h)
UP TO 6'	2 1/2" x 12 ga	12"	42"
UP TO 8'	3" x 12 ga	16" **	48"
UP TO 10'	3" x 12 ga	16" **	60"

** W/ REINFORCING

GATE POSTS (SIZES ARE MIN)

GATE WIDTH (PER LEAF)	GATE POST	FTG. DIA. (d)	FTG. DEPTH (h)	GATE HEIGHT
UP TO 4'	4x4x1/4"	20" **	42"	UP TO 6'
UP TO 6'	4x4x1/4"	20" **	42"	UP TO 6'
UP TO 8'	4x4x1/4"	20" **	48"	UP TO 6'
UP TO 10'	6x6x3/16"	28" **	60"	UP TO 8'
UP TO 14'	6x6x3/16"	28" **	72"	UP TO 10'

USE ROW OF GATE HEIGHT OR GATE WIDTH WHICHEVER IS GREATER

32.31.04.01

DECORATIVE FENCE & GATE POST CRITERIA 1

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SACRAMENTO, CA, 95816
916.368.7990 / www.hmcarchitects.com

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ISSUE

Δ	DESCRIPTION	DATE

FACILITY:
SAMUEL M. GANTNER ELEMENTARY SCHOOL
LODI, CA

PROJECT:
SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1

SHEET NAME:
DECORATIVE FENCE DETAILS

DESIGN DEVELOPMENT

DATE: **2026-09-26**
CLIENT PROJ NO:

SHEET:

A10.04.1

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THE LINE BROKEN ABOVE IS EXACTLY 1" WHEN PLOTTED ON SHEETS OF ORIGINAL IMAGE SIZE

ELECTRICAL GENERAL NOTES

1) 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), OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA), 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.

2) CEC AND MAXIMUM VOLTAGE DROP OF 5% WILL DEFINE CONDUCTOR SIZING.

3) 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 BITUMASTIC 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.

4) FOR TELEPHONE SYSTEM: PROVIDE GROUNDING FOR ALL TELEPHONE BACKBOARDS, TERMINAL CABINETS AND EQUIPMENT PER REQUIREMENTS OF CEC 800 AND TELEPHONE COMPANY.

5) 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 PAD LOCKING IN THE OPEN POSITION.

6) ALL CIRCUIT BREAKERS SHALL BE INVERSE TIME (THERMAL MAGNETIC) "PERMANENT TRIP" TYPE. TWO AND THREE POLE CIRCUIT BREAKERS SHALL BE COMMON TRIP.

7) ALL CONNECTIONS TO GROUND RODS AND GRID, ETC., SHALL BE MADE WITH U.L. APPROVED WELDED CONNECTIONS, UNLESS NOTED OTHERWISE.

8) 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 CBC SEISMIC REQUIREMENTS.

9) LIGHT POLLUTION REDUCTION: OUTDOOR LIGHTING SYSTEMS SHALL BE INSTALLED TO COMPLY WITH CENC. CGC, OR LOCAL JURISDICTION ORDINANCE, WHICHEVER IS MORE STRINGENT.

10) 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.

11) RECEPTACLES AND SWITCHES INTENDED TO BE ACCESSIBLE TO THE PUBLIC SHALL BE INSTALLED IN ACCORDANCE WITH CBC 11B-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.

12) 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.

13) 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.

14) THE WORD "CONTRACTOR", AS USED IN THE ELECTRICAL CONTRACT DOCUMENTS, SHALL MEAN THE PRIME (I.E. GENERAL) CONTRACTOR AND THEIR SUBCONTRACTORS FOR THE APPROPRIATE TRADE. WHERE THE OWNER ACTS AS THEIR OWN CONTRACTOR, THE WORD CONTRACTOR APPLIES TO THE OWNER.

15) CONTRACTOR SHALL PROVIDE EVIDENCE OF LICENSING, BONDING, AND INSURANCE, AND PROVIDE OTHER NECESSARY ADMINISTRATIVE FUNCTIONS FOR CONTRACTOR'S WORK.

16) CONTRACTOR SHALL PROCURE AND PAY FOR ALL REQUIRED PERMITS AND SERVICE CHARGES.

17) 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.

18) 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.

19) SAW CUT TRENCHES IN SLAB SHALL BE FULLY RESTORED AND REINFORCED TO PREVENT SAGGING. ROUGHEN SAW CUT EDGES PRIOR TO RE-POURING CONCRETE.

20) 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.

21) 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.

22) PROVIDE FLASHING AND COUNTER FLASHING FOR ALL WALL AND ROOF PENETRATIONS.

23) 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 NOTE

ALL MECHANICAL, PLUMBING, AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA-APPROVED CONSTRUCTION DOCUMENTS. THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2022 CBC SECTIONS 1617A.1.18 THROUGH 1617A.1.26 AND ASCE 7-16 CHAPTERS 13, 26, AND 30:

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

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

A. COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.

B. COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

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

MEP BRACING NOTE

PIPING, DUCTWORK, AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7 SECTION 13.3 AS DEFINED IN ASCE 7 SECTIONS 13.6.5, 13.6.6, 13.6.7, 13.6.8; AND 2022 CBC, SECTIONS 1617A.1.24, 1617A.1.25, AND 1617A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. THE MEP DESIGN PROFESSIONAL ENGINEER RESPONSIBLE FOR CONTENT ON THESE SHEETS HAS VERIFIED THAT THE DESIGN METHODS IDENTIFIED BELOW ARE IN ACCORDANCE WITH DSA IR 16-13.

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

MP☐ MD☐ PP☐ E☒ OPTION 1: PROJECT-SPECIFIC DESIGN

MP☐ MD☐ PP☐ E☐ OPTION 2: DESIGN BASED ON OSHPD OPM, WITHIN PROJECT SUBMITTAL

MP☐ MD☐ PP☐ E☐ OPTION 3: DESIGN BASED ON OSHPD OPM, DEFERRED SUBMITTAL

ELECTRICAL LEGEND

	2X4 LIGHT FIXTURE (SURFACE, RECESSED)
	2X2 LIGHT FIXTURE (SURFACE, RECESSED)
	FIXTURE W/ BATTERY BACKUP (TYP. ALL UNDED FIXTURES)
	RECESSED DOWNLIGHT
	ROUND SURFACE MOUNT LIGHT
	PENDANT LIGHT
	TRACK LIGHT
	SIGNLIGHT
	WALL MOUNT LIGHT
	POLE MOUNT LIGHT – 2 HEAD
	POLE MOUNT LIGHT – 1 HEAD
	EXIT/EMERGENCY COMBO LIGHT
	EMERGENCY FIXTURE
	EXIT LIGHT
	CEILING EXHAUST FAN
$S_{"X"}$	WALL MOUNTED SWITCH
$S_{3,"X"}$	WALL MOUNTED 3-WAY SWITCH
P	PHOTOCELL
	PRIMARY AND SECONDARY DAYLIT ZONES
"X"	CEILING MOUNTED SENSOR
	RECEPTACLE – DUPLEX
	RECEPTACLE – QUADRUPLEX
	RECEPTACLE – DEDICATED
	RECEPTACLE – 2-POLE
	RECEPTACLE – SPECIALTY, SEE PLANS FOR TYPE
	RECEPTACLE WITH USB PORT
	FLOOR MOUNTED RECEPTACLE
	CEILING MOUNTED RECEPTACLE
	PHONE-DATA PORT
S	SMOKE DETECTOR
C	CARBON MONOXIDE DECTECTOR
J	JUNCTION BOX
3P 60/40	DISCONNECT – POLES (CAPACITY/FUSE)
"X"-1,3,5	HOME RUN – PANEL-CIRCUIT(S)
	WIRE/CONDUIT – OVERHEAD
	WIRE/CONDUIT – UNDERGROUND
	POWER PANEL
T	TRANSFORMER
AFF	ABOVE FINISHED FLOOR
+XX"	HEIGHT (INCHES) AFF
D	DIMMER
M	OCCUPANCY SENSOR
V	VACANCY SENSOR
GFCI	GROUND FAULT CURRENT INTERRUPTER
WP	WEATHERPROOF
HP	HORSEPOWER
BHP	BRAKE HORSEPOWER
NTS	NOT TO SCALE
GND	GROUND
GEC	GROUNDING ELECTRODE CONDUCTOR
MSB	MAIN SWITCHBOARD
SBJ	SYSTEM BONDING JUMPER
SSBJ	SUPPLY SIDE BONDING JUMPER
BCPM	BRANCH CIRCUIT POWER METER
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED

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DESIGN FOR GOOD
3431-010-000
2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

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ISSUE

Δ	DESCRIPTION	DATE

KEYNOTES

NOTES

OPTIMIZED ENERGY & FACILITIES CONSULTING, INC.
5734 Lonetree Boulevard, Rocklin, CA 95765
Office: (916) 626 5518 www.oefcinc.com

FACILITY:
SAMUEL M. GANTNER ELEMENTARY SCHOOL
1305 E VINE ST,
LODI, CA 95240

PROJECT:
SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1

SHEET NAME:
ELECTRICAL SCHEDULES & GENERAL NOTES

DESIGN DEVELOPMENT

DATE: **2025-09-23** | CLIENT PROJ NO:

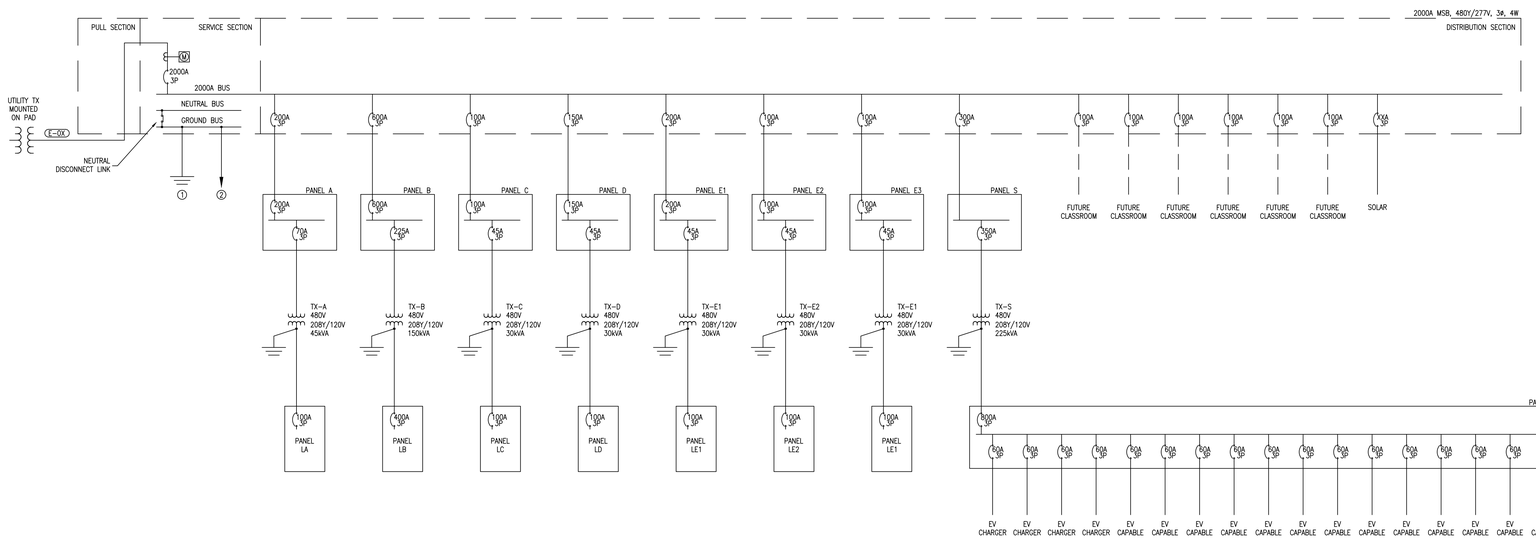
SHEET:

E1.11.1

PLEASE RECYCLE

THE LINE SHOWN ABOVE IS EXACTLY 1" WHEN PLOTTED ON 24X36 SHEETS ORIGINAL IMAGE SIZE

ONE-LINE DIAGRAM



ONE-LINE NOTES:

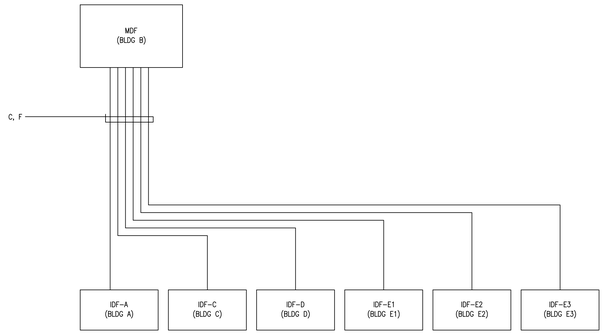
1. (N) – NEW
   (E) – EXISTING
   (R) – REPLACED
   (F) – FUTURE
2. ALL EQUIPMENT/WIRING IS (N) U.O.N.
3. ALUMINUM WIRING INSULATION SHALL BE XHHW, U.O.N. COPPER WIRING INSULATION SHALL BE THWN-2, U.O.N.
4. THE SERVICE DISCONNECT SHALL BE PERMANENTLY MARKED PER CEC 230.70(B)
5. POST A DATED AVAILABLE FAULT CURRENT CALCULATION AT THE SERVICE EQUIPMENT PER CEC 110.24
6. 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
7. SERVICE EQUIPMENT SHALL HAVE METERING CAPABILITIES PER CENC TABLE 130.5-A
8. SERVICE EQUIPMENT SHALL BE GFI TESTED IN ACCORDANCE WITH CEC 230.95. THE TESTING REPORT SHALL BE PROVIDED TO THE BUILDING OFFICIAL PRIOR TO ENERGIZATION
9. 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)
10. FOR SWITCHBOARDS 1200A OR LARGER, PROVIDE ENERGY REDUCING MAINTENANCE SWITCH (ERMS) OR OTHER METHOD OF ARC ENERGY REDUCTION PER CEC 240.87, AND SERVICE EQUIPMENT LABELING PER CEC 110.16(B)
11. POST IDENTIFICATION FOR CONDUCTORS OF DIFFERENT VOLTAGE SYSTEMS PER CEC 210.5
12. AN INTERSYSTEM BONDING ELECTRODE WHICH INCLUDES PROVISIONS FOR CONNECTING AT LEAST THREE GROUNDING OR BONDING CONDUCTORS REQUIRED FOR COMMUNICATIONS SYSTEMS SHALL BE INSTALLED EXTERNALLY AT THE SERVICE EQUIPMENT AS SPECIFIED IN CEC 800.100(B) AND CEC 250.94

ONE-LINE KEY NOTES:

① GROUND ELECTRODE SYSTEM: PROVIDE GROUND ELECTRODE PER CEC 250.52(A), AND CONNECT TO SERVICE EQUIPMENT WITH MINIMUM #3/0 AWG CU GEC PER CEC 250.24

② MINIMUM #3/0 BARE COPPER BOND TO METAL FRAMING AND METAL PIPING

SIGNAL RISER DIAGRAM



CABLE SCHEDULE

TAG	DESCRIPTION	USE
C	TWISTED-PAIR ETHERNET CABLE	CAT5E
F	12 STRAND MULTIMODE (OM4)	FIBER

SIGNAL RISER NOTES:

1. (N) – NEW
   (E) – EXISTING
   (R) – REPLACED
   (F) – FUTURE
2. CONTRACTOR SHALL REVIEW ALL DISTRICT I.T. SPECIFICATIONS FOR INSTALLATION DETAILS, EQUIPMENT, AND FIELD LABELING
3. CONTRACTOR SHALL TEST ALL SIGNAL CABLING AFTER LABELING IS 100% COMPLETE PER DISTRICT I.T. REQUIREMENTS

AGENCY APPROVAL:

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SHEET NAME:
ONE-LINE DIAGRAM
& SIGNAL RISER DIAGRAM

DESIGN DEVELOPMENT

DATE: **2025-09-23**
CLIENT PROJ NO:

SHEET:
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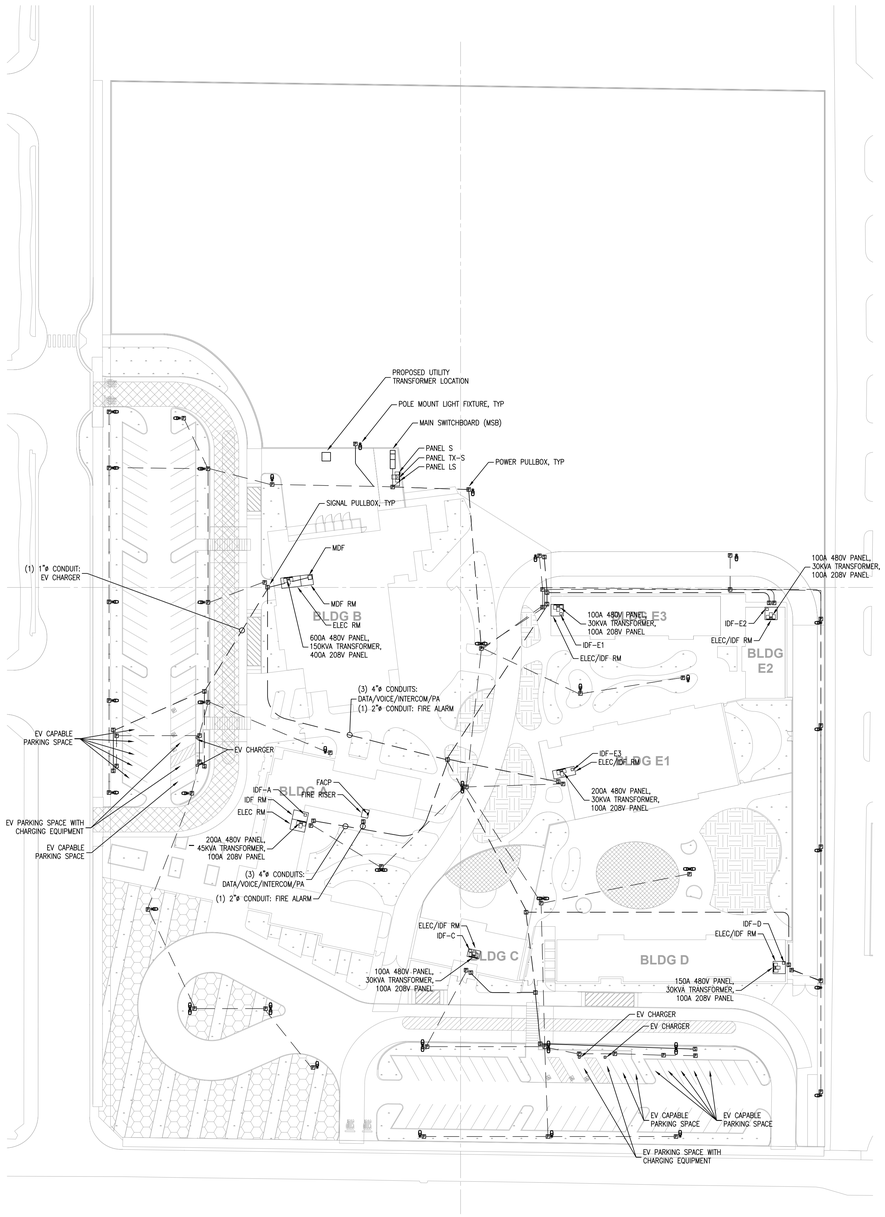

A ELECTRICAL SITE PLAN - POWER & SIGNAL
SCALE: 1"=50'-0"

KEY NOTES:

① (3) 4"ø CONDUITS: DATA/VOICE/INTERCOM/PA (1) 2"ø CONDUIT: FIRE ALARM

AGENCY APPROVAL:

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SHEET NAME:
ELECTRICAL SITE PLAN
POWER & SIGNAL

DESIGN DEVELOPMENT

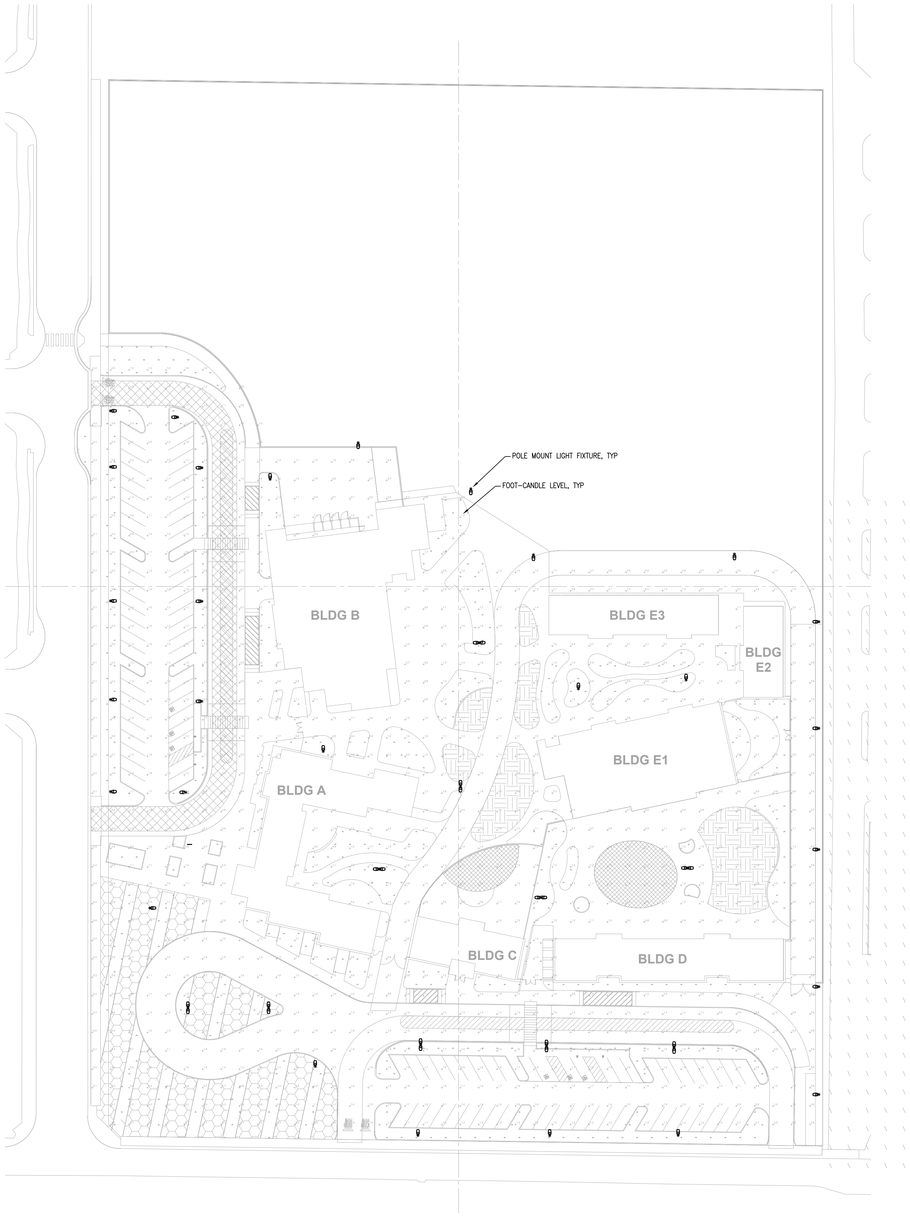
DATE: **2025-09-23** | CLIENT PROJ NO:

SHEET:

E1.31.1

PLEASE RECYCLE

THE LINE BROWN ABOVE IS EXACTLY ONE INCH ON ALL PLANS SHEETS ORIGINAL IMAGE SIZE



A ELECTRICAL SITE PLAN - PHOTOMETRIC
SCALE: 1"=50'-0"

PLEASE RECYCLE

AGENCY APPROVAL:

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SHEET NAME:
ELECTRICAL SITE PLAN
PHOTOMETRIC

DESIGN DEVELOPMENT

DATE: **2025-09-23** | CLIENT PROJ NO:

SHEET:

E1.41.1