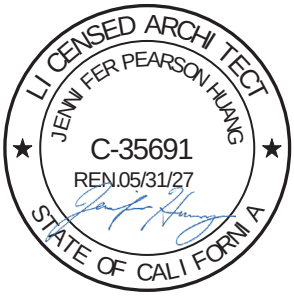
March 03, 2026

**HMC Architects Project No. 3431 010100**
DSA File and Application No. 39-50 / 02-123780
PTN: 68585-296

# ADDENDUM NO. 2

Samuel M. Gantner Elementary School – Site Work
Lodi, California




HMC Architects

1. ALL WORKMANSHIP, MATERIALS, APPLIANCES AND EQUIPMENT which may be included in the following items shall be the same relative quantity as described for similar work set forth in the original or main specifications of which these Addendum items shall be considered a part.

2. ADDENDUM SECTIONS (included with this Addendum)

   The following modify or supplement the issued bid documents. NONE

3. ADDENDUM DRAWINGS (included with this Addendum)

   The following modify or supplement the issued bid documents.

   REPLACE all drawing sheets.

4. PROJECT MANUAL

   NONE

5. DRAWINGS

   A. DELETE DSA Submittal Documents drawings in their entirety and ADD DSA Backcheck Documents in their entirety as included with this addendum.

4. REQUEST FOR QUALIFICATIONS

   A. VII – Submission Guidelines - Address

      1. REVISE RE: RFP/Q # to 0833-8913-345-75

6. BID QUESTIONS

   A. Backfill: There is a note that mentions "Sand Backfill" on Project Manual (Irrigation - Materials 2.02 - Section S). L4.3.1 mentions "Clean, Rock-Free soil or sand. Which should we go with? If we do sand will that only be for mainlines or lateral as well, what about around sleeving?

      Response: It is typical for irrigation piping to use native rock free soil. If the native soil contains a lot of rock, all mainline and lateral piping would need sand.

   B. Type of Irrigation: From what the majority of the notes and details mention about the type of irrigation, I understand it as if the whole project shall be potable irrigation. There are some notes that make it seem as if the water type is Non-potable irrigation, such as images #4 & #5. I believe it is potable water but just wanted to be sure.

      Response: The water source is potable, but the irrigation water is considered non-potable due to the risk of chemicals or other materials contaminating the water through back-siphonage or mainline/lateral breaks.

   C. Controllers: The plans do not make it clear which controllers go to each controller 'A' or 'B'. Should we divide the stations into the available amount of stations that the controller can handle? In image #6 I drew a red line showing how I am proposing the stations to be split "Top" (Controller 'A' - 48 Stations) towards the bottom portion of the Red line drawn on Image #6.The rest of the stations shall be on (Controller 'B' - 36 Stations).

      Response: The DSA backcheck plans clearly identify which valves are assigned to each controller.

   D. Irrigation Wiring: These plans call for the irrigation wiring to be "Conventional". Would it be possible to bid this project two-wire?

      Response: This is a change that can easily be made, pending District approval. We suggest the following changes to the conventional system: Remove (2) Rainbird ESP-LXME2 controller and replace with one Rainbird ESP-LXIVM2 controller. Remove (1) set

of master valve and flow sensor assembly and combine mainline route from controller 'B' with the mainline route for controller 'A' [this will be relevant in the DSA backcheck drawings]. Add single station decoders to each valve throughout the site. Include grounding rods throughout the site as recommended by the manufacturer. This may be discussed with the District with successful proposer.

E. Boulders: Sheet (L0.5.1) shows a detail 2 & 3. The boulders are very similar in size. In regards to boulder selection such as type of stone and color, would you like us to recommend a type of boulder and vendor or is there one that it has to be in particular?

   Response: The details call for Montanan Rockwork boulder or equal. We are open to other boulder types that fit the size requirements and are generally able to be used for seating with level surfaces and eased edges.

F. Decomposed Granite: Does the decomposed granite require a gravel base, if so what thickness? From what is shown in detail it is just calling for two 2" layers of the decomposed granite.

   Response: We are not specifying a gravel base, however a 90% compacted 4" class II permeable base would increase the longevity of the track. This may be discussed with the District with successful proposer.

G. Weed Control: The decomposed granite detail calls for "Treat base with weed control". Does that refer to only a pre-emergent spray or weed barrier fabric as well?

   Response: No fabric is required.

H. RFQ-P # Clarification: RFQ/P Section VII (Submission Guidelines) instructs proposers to reference RFQ/P #0833-8913-345-30. However, the RFQ/P cover sheet and Attachment A reference RFQ/P #0833-8913-345-75. Please confirm the correct RFQ/P number to reference in the submission.

   Response: RFP-Q number is 0833-8913-345-75.

I. Inclusions/Exclusions: Can proposers include detailed site logistics and phasing exhibits (e.g., staging plans, access routes, temporary fencing/laydown areas, and campus operation protection measures) as part of the RFQ/P submittal? If permitted, please confirm whether these exhibits will be excluded from the RFQ/P page count (similar to detailed schedule charts), or whether they must be included within the thirty (30) page limit.

   Response: They may be included but must fall within the 30-page limit.

* * * END OF ADDENDUM * * *

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## LODI UNIFIED SCHOOL DISTRICT

# SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC. 1

2801 W. VINE STREET
LODI, CA 95242

AGENCY APPROVAL:

LODI USD

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

LICENSED ARCHITECT
JENNIFER PEARSON HUMES
C-35691
REN. 05/31/27
STATE OF CALIFORNIA

## PROJECT TEAM

**OWNER**
**LODI UNIFIED SCHOOL DISTRICT**
825 W LOCKEFORD ST, LODI, CA 95240
209.331.7000

**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

**STRUCTURAL**
**RW CONSULTING ENGINEERS**
1450 HARBOUR BLVD SUITE F WEST SACRAMENTO, CA 95691
916.229.8345

FACILITY:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL**
**2801 W. VINE STREET**
**LODI, CA 95242**

PROJECT:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC. 1**

SHEET NAME:
**COVER SHEET**

**DSA SUBMITTAL**

DATE: **2025.12.09**
CLIENT PROJ NO:

SHEET:

# G0.10.1

Autodesk Docs://3431010000 LODI USD SAMUEL M. GANTNER ES R24/3431010000-A-LUSD-GANTNER ES-SITE.rvt
2/12/2026 9:42:17 AM

PLEASE RECYCLE

THE LINE SHOWN ABOVE IS EXACTLY 1" LONG ON THIS SHEET'S ORIGINAL PAPER 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. WHERE ANY CONFLICT OCCURS BETWEEN THE REQUIREMENTS OF LAWS, CODES, ORDINANCES, RULES AND REGULATIONS, THE MOST STRINGENT SHALL GOVERN.
7. IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS OR DETAILS ON THE DRAWINGS.
8. DETAILS MARKED 'TYPICAL' SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY NOTED OTHERWISE.
9. 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.
10. 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.
11. CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID EXISTING DUCTS, PIPING, CONDUIT, ETC. AND TO PREVENT HAZARD TO PERSONNEL AND/OR TO EXISTING UNDERGROUND UTILITIES OR STRUCTURES. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.
12. 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.
13. ALL WORK SHALL CONFORM TO 2022 EDITION TITLE 24, CALIFORNIA CODE OF REGULATION (CCR)
14. 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.
15. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
16. ALL CONSTRUCTION AND DEMOLITION SHALL BE IN ACCORDANCE WITH CHAPTER 33 OF THE CBC AND CFC, AND THE WRITTEN SITE SAFETY PLAN.
17. 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.
18. NO DUMPING OR PLACING OF ANY DIRT OR DEBRIS SHALL BE ALLOWED OUTSIDE OF THE CONTRACTORS LIMIT OF WORK AREA.
19. 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.
20. 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.
21. 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.
22. 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.
23. 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)
24. SUBSTITUTIONS AFFECTING ITEMS REGULATED BY THE DIVISION OF THE STATE ARCHITECT (DSA) REQUIRE DSA APPROVAL AS AN ADDENDUM OR A CONSTRUCTION CHANGE DOCCUMENT (CCD). DSA APPROVAL SHALL BE OBTAINED PRIOR TO FABRICATION AND/OR ISTALLATION PER SECTION 4-338, PART 1, TITLE 24, CCR.
25. CONTRACTOR TO PROVIDE A WRITTEN SITE SAFETY PLAN ESTABLISHING A FIRE PREVENTION PROGRAM AT THE PROJECT SITE TO BE SUBMITTED WITH FORM DSA 102-IC.

## 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**

| | | |
|---|---|---|
| 2025 | 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

APPLICATION NO.: 02-123780
FILE NO.:

THE DRAWINGS IDENTIFIED AS FOLLOWS:
[ x ] ALL DRAWING SHEETS INCLUDED IN THIS SET NOT BEARING MY STAMP AND SIGNATURE.
[ ] DRAWING SHEETS DENOTED IN THE SHEET INDEX AS FOLLOWS: _____
[ ] DRAWING SHEETS INCLUDED UNDER THE FOLLOWING PC APPROVAL(S): _____

HAVE BEEN PREPARED BY OTHER DESIGN PROFESSIONALS OR CONSULTANTS WHO ARE LICENSED AND AUTHORIZED TO PREPARE SUCH DRAWINGS (PLANS) IN THIS STATE. THEY HAVE BEEN EXAMINED BY ME FOR:

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

PER TITLE 24, PART 1, SECTION 4-316(B): THIS 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.

| | | |
|---|---|---|
| Signature | | 02.10.2026 Date |
| JENNIFER HUANG Printed Name | C35691 License Number | 05.31.2027 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, TRASH ENCLOSURE WITH PC SHADE STRUCTURE

INC 2 - CONSTRUCTION OF CAMPUS BUILDINGS

## PROJECT DATA

**PROJECT ADDRESS**

2801 W VINE STREET
LODI, CA 95242

**PROJECT INFORMATION**

TYPE OF CONSTRUCTION: **TYPE V-B**

OCCUPANCY: **A-3, B, E**

AUTOMATIC FIRE SPRINKLER SYSTEM: **YES**

NUMBER OF STORIES: **1**

CA CLIMATE ZONE: **12**

## DEFERRED APPROVAL

1. NONE

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10
Grand total: 79


**AGENCY APPROVAL:**

LODI USD


HMC DESIGN FOR GOOD Architects
3431-010-000
2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA, 95818
916 368 7990 / www.hmcarchitects.com


**ISSUE**

| Δ | DESCRIPTION | DATE |
|---|---|---|

## SYMBOL LEGEND

**NORTH ARROW**
TICK INDICATES PLAN NORTH
ARROW INDICATES TRUE NORTH

**ELEVATION CALLOUT** (TYPICAL FOR EXTERIOR)
LOCATION ON SHEET
SHEET WHERE ELEVATION IS DRAWN

**ELEVATION CALLOUT** (TYPICAL FOR INTERIOR)
LOCATION ON SHEET
SHEET WHERE ELEVATION IS DRAWN

**ELEVATION CALLOUT - ALT.** (FOR EXTERIOR AND INTERIOR)
LOCATION & SHEET WHERE ELEVATION IS DRAWN

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

**DETAIL CALLOUT**
INDICATES A SIMILAR CONDITION
LOCATION ON SHEET
SHEET WHERE SECTION IS DRAWN

**CONTROL OR DATUM POINT**
NAME OF ELEVATION (IF APPLICABLE)
ELEVATION ABOVE FINISHED FLOOR

**GRID BUBBLE**
EXISTING BUILDING GRID SYMBOL
GRID NUMBER
NEW BUILDING GRID SYMBOL

**DOOR CALLOUT**
DOOR NUMBER

**INTERIOR FINISH CALLOUT**
MATERIAL FINISH TYPE
(SEE FINISH SCHEDULE)

**WINDOW CALLOUT**
WINDOW NUMBER
(SEE WINDOW SCHEDULE)

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

**MATCHLINE REFERENCE**
LOCATION ON SHEET
SHEET WHERE PLAN IS DRAWN

**KEYNOTE**
KEYNOTE NUMBER (SEE LEGEND ON SHEET)

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

**WIC CASEWORK TAG**
MANUFACTURER REFERENCE AND MODEL NUMBER
LOCK
CABINET DEPTH
CABINET HEIGHT
CABINET WIDTH

### SHEET NUMBER SYSTEM

| DISCIPLINE | | SHEET TYPE | | BUILDING LETTER, 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 | | | |

SERIES ORDER
SHEET TYPE
DISCIPLINE
SEGMENT (IF APPLICABLE)
A A 1.1 1 A.A
BUILDING LETTER (IF APPLICABLE)
FLOOR LEVEL OR SEQUENTIAL ORDER
USER DEFINED (IF APPLICABLE)

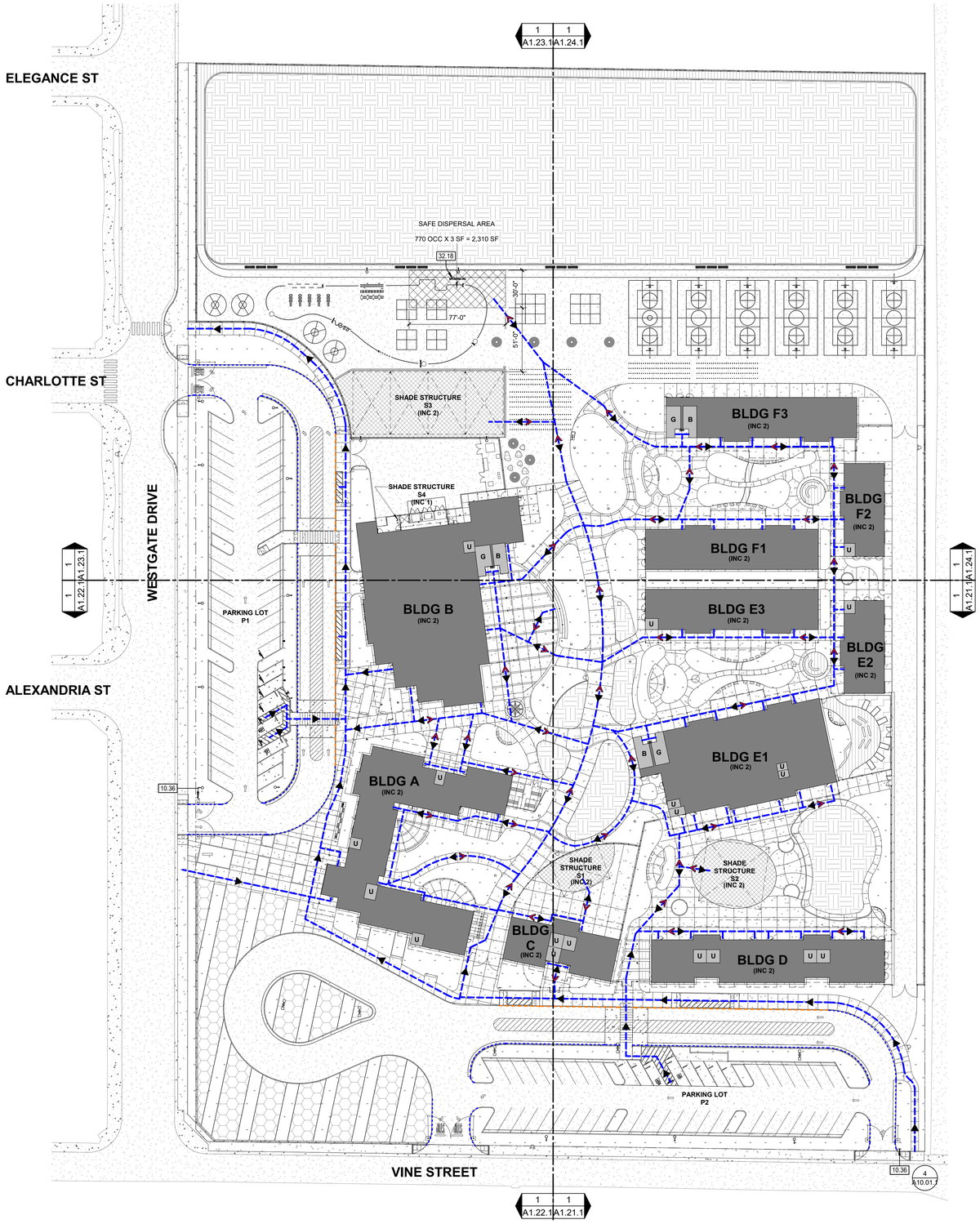
## ABBREVIATIONS

| | |
|---|---|
| (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

THE LINE SHOWN ABOVE IS 1" LONG ON ORIGINAL 24 X 36 SHEETS (ORIGINAL PAGE SIZE)




## BUILDING DATA (INC 2)

| | OCCUPANT TYPE | CONST. TYPE | SPRINKLER SYSTEM | ALLOWABLE AREA S1 | ALLOWABLE HEIGHT | ALLOWABLE NO. OF STORIES |
|---|---|---|---|---|---|---|
| BLDG A | B, E NON-SEPERATED | V-B | YES | 36,000 SF | 40'-0" | 1 |
| BLDG B, SHADE SRUCTURE S4* | A-3 | V-B | YES | 24,000 SF | 55'-0" | 1 |
| BLDG C, D | E | V-B | YES | 38,000 SF | 55'-0" | 1 |
| BLDG E1, E2, E3, F1, F2,F3 | E | V-B | YES | 38,000 SF | 55'-0" | 1 |
| SHADE STRUCTURE S1 | E | V-B | NO | 9,500 SF | 40'-0" | 1 |
| SHADE STRUCTURE S2 | E | V-B | NO | 9,500 SF | 40'-0" | 1 |
| SHADE STRUCTURE S3 | E | V-B | NO | 9,500 SF | 40'-0" | 1 |

* PRLIMINARY ACTUAL AREA:

| | |
|---|---|
| BUILDING B | 14,101 SF |
| OVERHANG | 2,848 SF |
| SHADE STRUCTURE S4 | 405 SF |
| TOTAL | 17,354 SF |

## LEGEND

| | |
|---|---|
| | PROPERTY LINE |
| | ASSUMED IMAGINARY LINE |
| | ACCESIBLE PATH OF TRAVEL |
| | PATH OF EGRESS TO AREA OF SAFE DISPERSAL |
| | NEW BUILDING |
| | ACCESSIBLE RESTROOM |
| U | UNISEX RESTROOM |
| G | GIRLS RESTROOM |
| B | BOYS RESTROOM |
| S | STAFF RESTROOM |

## PARKING TABULATION

PARKING STALLS

| | |
|---|---|
| PARKING LOT P1 | 50 |
| PARKING LOT P2 | 50 |
| TOTAL PARKING STALLS | 100 |

**PER CBC TABLE 11B-208.2**
ACCESSIBLE PARKING STALLS = 4 (REQUIRED) / 4 (PROVIDED)

ACC. VAN = 1 (REQUIRED) / 2 (PROVIDED)

**ELECTRIC VEHICLE CHARGING STATIONS**
**CAL GREEN TABLE 5.106.5.3.1**

EV READY SPACES = 17 (REQUIRED) / 17 (PROVIDED)

EV CAPABLE SPACES W/ EVSE = 4 (REQUIRED) / 4* (PROVIDED)

ACCESSIBLE EV CAPABLE SPACES W/ EVSE = 1 (REQUIRED) / 1 (PROVIDED)

* INCLUDES 1 VAN ACCESSIBLE CHARGING STALL

## BIKE PARKING TABULATION

CAL GREEN 5.106.4.2.1
STUDENT BYCICLE PARKING:
(4, 2 BIKE RACKS PER BUILDING AT 4 BUILDINGS)

32 REQUIRED
40 PROVIDED

CAL GREEN 5.106.4.2.2
STAFF BICYCLE PARKING:
(2 PER BUILDING AT 4 BUILDINGS)

8 REQUIRED
8 PROVIDED

## PATH OF TRAVEL STATEMENT

**PATH OF TRAVEL, TECHNICAL REQUIREMENTS FOR ACCESSIBLE ROUTE:**

ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER-FREE ACCESS ROUTE WITHOUT ABRUPT LEVEL CHANGES EXCEEDING 1/2" IF BEVELED AT 1:2 MAXIMUM SLOPE OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAXIMUM AND AT LEAST 48" IN WIDTH. SURFACE IS STABLE, FIRM, AND SLIP-RESISTANT. CROSS-SLOPE SHALL NOT BE STEEBER THAN 1:48 AND SLOPE IN THE DIRECTION OF TRAVEL SHALL NO BE STEEPER THAN 1:20. ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM AND FREE OF OBJECTS PROTRUDING MORE THAN 4" FROM THE WALL. ABOVE 27" AND LES THAN 80" ABOVE THE FLOOR. ARCHITECTS SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE BATH OF TRAVEL.

**DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT:**

THE P.O.T. IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS MEETS THE REQUIREMENTS OF THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE (CBC) ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS, AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE P.O.T. WAS EXAMINED AND ANY ELEMENTS COMPONENTS, OR PORTIONS OF THE P.O.T THAT WERE DETERMINED TO BE NON-COMPLIANT WITH THE CBC HAVE BEEN IDENTIFIED AND THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECTS WORK THROUGH DETAIL, DRAWINGS, AND SPECIFICATIONSINCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NON-COMPLIANT ELEMENTS OR PORTIONS OF THE P.O.T. THAT WILL NIT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE INDICATED BASED IN THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, IF P.O.T. ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CBC COMPLIANT ARE FOUND TO BE NON-CONFORMING BEYOND REASONABLE CONSRUCTION TOLERANCES, THE ITEMS SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

TN

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

AGENCY APPROVAL:

LODI USD


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


LICENSED ARCHITECT JENNIFER PEARSON-HAAG C-35691 REN. 05/31/27 STATE OF CALIFORNIA

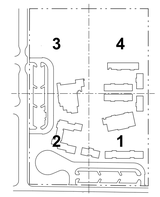
**ISSUE**

| Δ | DESCRIPTION | DATE |
|---|---|---|

## KEYNOTES

| | |
|---|---|
| 10.36 | TOW-AWAY SIGN |
| 32.18 | 18" HIGH PAINTED "SAFE DISPERSAL AREA" |

## KEY PLAN




FACILITY:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL**
**2801 W. VINE STREET**
**LODI, CA 95242**

PROJECT:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC. 1**

SHEET NAME:
**CODE SITE PLAN**

**DSA SUBMITTAL**

DATE: **2025.12.09** | CLIENT PROJ NO:

SHEET:

# G1.11.1

Autodesk Docs://3431010000 LODI USD SAMUEL M. GANTNER ES R24/3431010000-A-LUSD-GANTNER ES-SITE.rvt
2/12/2026 9:42:44 AM

PLEASE RECYCLE

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

# 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: | 2801 W 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: _____



CITY OF LODI
FIRE DEPARTMENT
210 WEST ELM STREET
LODI, CALIFORNIA 95240

*Est. 1907*

October 10, 2025

Attn: Amberly Kidder, Marc Karim
Lodi Unified School District
880 N. Guild Ave. Lodi, CA 95240

RE: HYDRANT FLOW TEST 2801 W. VINE ST. LODI

Dear Amberly and Marc:

On Thursday October 08, 2025, Lodi Fire Dept. Engine 2034, conducted a hydrant flow test on hydrant # N1190, located at 2801 W. Vine St. and hydrant # N1057, located on the south west corner of Westgate Dr. and La Jolla Wy.

The test was completed at the request of Marc Karim, Lead Construction Specialist.

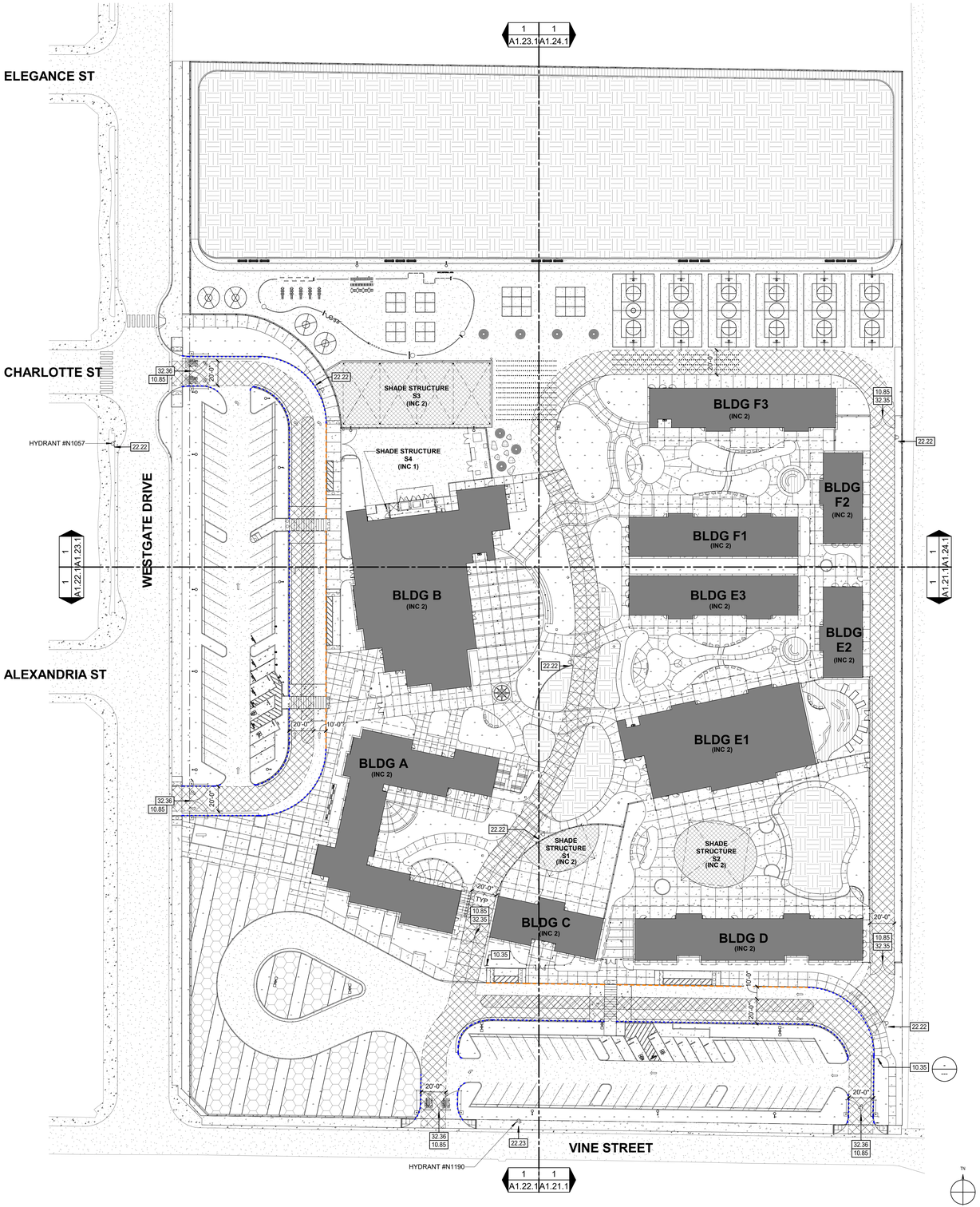
Results are as follows:

| Hydrant # N1190 | Hydrant # N1057 |
|---|---|
| Static Pressure – 70 | Static Pressure - 72 |
| Residual Pressure – 44 | Residual Pressure - 48 |
| GPM – 1237 with 2 1/2" diameter orifice | GPM – 1293 with 2 1/2" diameter orifice |

Thank you.

Ryan Smart
Fire Marshal
City of Lodi Fire Department
210 W. Elm St.
Lodi, CA 95240
rsmart@lodi.gov

FIRE ADMINISTRATION (209) 333-6755
FIRE PREVENTION (209) 333-6739
FAX (209) 333-6844




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

## LEGEND

- PROPERTY LINE
- MATCHLINE
- PAINTED FIRE LANE NO PARKING (6 / A10.01)
- FIRE HYDRANT
- NEW BUILDING (INC 2)
- PHASE 1 FIRE LANE
- CONCRETE, SEE CIVIL
- ASPHALT, SEE CIVIL
- GRASS, SEE LANDSCAPE
- ARTIFICIAL TURF, SEE LANDSCAPE
- PLANTING, SEE LANDSCAPE
- GRAVEL, SEE LANDSCAPE
- DECOMPOSED GRAVEL, SEE LANDSCAPE
- CHAINLINK FENCE
- DECORATE METAL FENCING

## NOTES

1. NEW BUILDINGS SHALL BE PROVIDED WITH EMERGENCY RESPONDER RADIO COVERAGE IN ACCORDANCE WITH CALIFORNIA FIRE CODE SECTION 510. THE PROJECT ARCHITECT (AOR) SHALL CONTACT THE LOCAL FIRE DEPARTMENT AND/OR EMERGENCY COMMUNICATIONS AUTHORITY TO OBTAIN DESIGN, EQUIPMENT SPECIFICATIONS, TESTING AND ACCEPTANCE CRITERIA. PLANS AND REQUESTED DOCUMENTATION SHALL BE SUBMITTED TO THE LOCAL AUTHORITY HAVING JURISTICTION FOR REVIEW AND APPROVAL. UPON COMPLETTION, COPIES OF THE APPROVED PLANS, EQUIPMENT DATA SHEETS, TESTING AND ACCEPTANCE DOCUMENTATION SHALL BE PROVIDED TO THE SCHOOL DISTRICT.

## KEYNOTES

| | |
|---|---|
| 10.35 | FIRE LANE SIGN |
| 10.85 | KNOX LOCK |
| 22.22 | FIRE HYDRANT \| SEE CIVIL |
| 22.23 | EXISTING FIRE HYDRANT |
| 32.35 | GATE, 20'-0" MIN. CLEAR |
| 32.36 | SWING ARM BARRIER GATE - DOUBLE |

**AGENCY APPROVAL:**

LODI USD

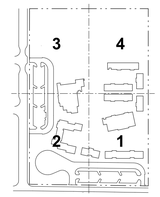
HMC DESIGN FOR GOOD Architects
3431-010-000
2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

LICENSED ARCHITECT JENNIFER PEARSON HUANG C-35691 REN. 05/31/27 STATE OF CALIFORNIA

**ISSUE**

| Δ | DESCRIPTION | DATE |
|---|---|---|

## KEY PLAN




FACILITY:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL**
**2801 W. VINE STREET**
**LODI, CA 95242**

PROJECT:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC. 1**

SHEET NAME:
**LOCAL FIRE AUTHORITY SITE ACCESS PLAN**

**DSA SUBMITTAL**

DATE: **2025.12.09** CLIENT PROJ NO:

SHEET:

# G1.51.1

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

IF MEASUREMENT ABOVE IS LESS THAN 3", THE LINE BROKEN ABOVE IS EXAGGERATED FOR PLOTTING 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 BACKFILLNG 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 STATES 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 OWNER AND REIMBURSED 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 TREATED 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:

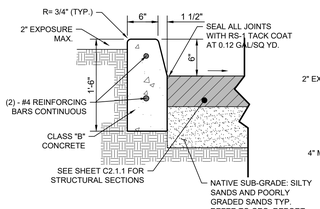
PRIOR TO ISSUANCE OF BUILDING PERMITS FOR PROJECT, APPLICANT/CONTRACTOR SHALL DEMONSTRATE COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS OF SAN JOAQUIN VALLEY AIR POLLUTION CONTROL DISTRICT (SJVAPCD) REGULATION VIII & MUST OBTAIN AN APPROVED DUST CONTROL PLAN.

1. THE CONTRACTOR SHALL PROVIDE EVIDENCE OF COMPLIANCE WITH THE SAN JOAQUIN VALLEY AIR POLLUTION DISTRICT (SUVAPCD) 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.

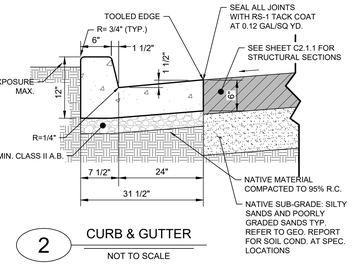
## CITY OF LODI GENERAL NOTES:

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 SPECIFI

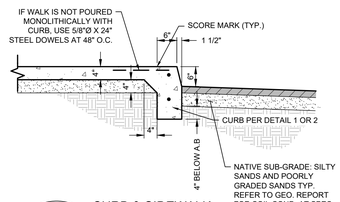
THE LINE BROWN ABOVE IS EXACTLY ONE INCH LONG ON ALL SHEETS ORIGINAL PAGE SIZE



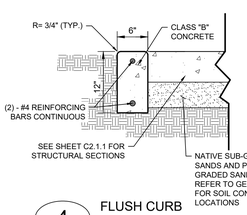

1 VERTICAL CURB
NOT TO SCALE



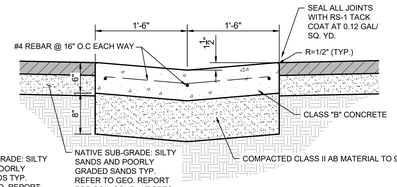

2 CURB & GUTTER
NOT TO SCALE



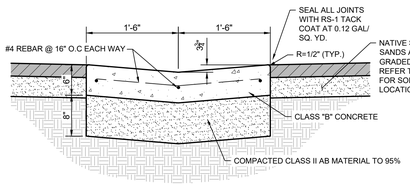

3 CURB & SIDEWALK
NOT TO SCALE



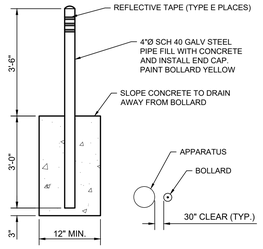

4 FLUSH CURB
NOT TO SCALE



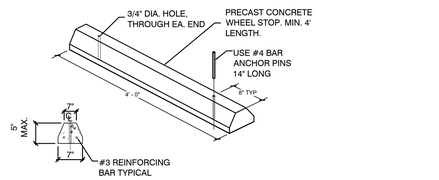

5 VALLEY GUTTER
NOT TO SCALE

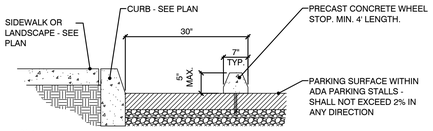



6 ADA VALLEY GUTTER
NOT TO SCALE




7 PROTECTIVE BOLLARD
NOT TO SCALE

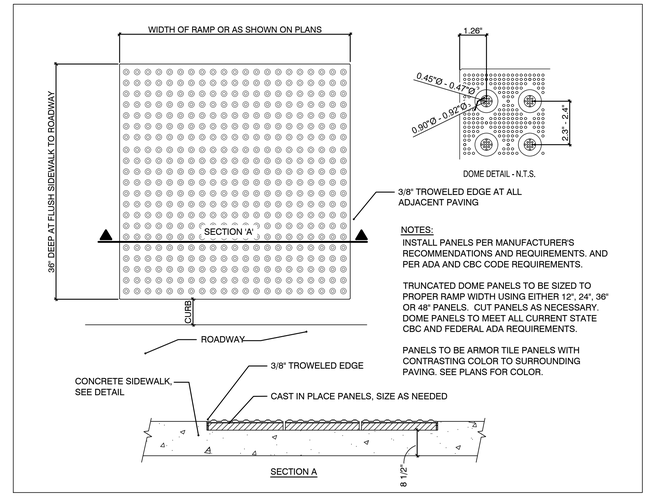



Notes:

1. ACCESSIBLE PARKING STALLS SHALL BE INSTALLED PER CURRENT CBC (11B-208) AND TITLE 24 CODES AT THE TIME OF CONSTRUCTION.
2. NO PORTIONS OF THE ACCESSIBLE STALL OR DRIVE AISLE SHALL EXCEED 2% SLOPE IN ANY DIRECTION.
3. INSTALL ALL REQUIRED SIGNAGE PER CODE.
4. PAINTED STRIPING AND SIGNAGE SHALL BE STANDARD APPROVED TRAFFIC PAINTING IN CONTRAST TO COLOR OF PAVING. TWO COATS OF THERMOPLASTIC PAINT, TYP.
5. PAINT COLORS SHALL BE TYPICAL BLUE AND WHITE PAINT COLORS FOR ACCESSIBLE STALLS AS APPROVED BY LOCAL JURISDICTION AND/OR STATE.
6. FREE-STANDING SIGNAGE SHALL BE REFLECTORIZED ON PORCELAIN STEEL WITH BEADED TEXT AND ½" RADIUS CORNERS. SECURE TO 2" DIAMETER GALVANIZED POST SET MIN. 30" INTO GRADE WITH CONCRETE FOOTING.
7. UNAUTHORIZED VEHICLE WARNING SIGNAGE MUST BE POSTED IN A LOCATION IMMEDIATELY ADJACENT TO AND VISIBLE FROM EACH ACCESSIBLE STALL OR SPACE.
8. ALL SITE ACCESSIBILITY SIGNAGE TO MEET CBC (11B-216.5) AND TITLE 24 CODES AND TO BE PLACED IN ALL LOCATIONS AS REQUIRED.

8 WHEEL STOP
NOT TO SCALE

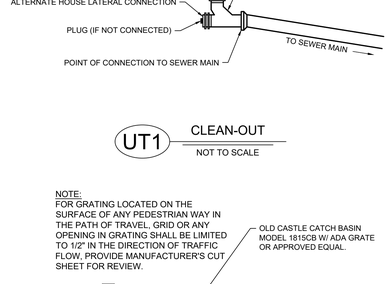



NOTES:
INSTALL PANELS PER MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS. AND PER ADA AND CBC CODE REQUIREMENTS.

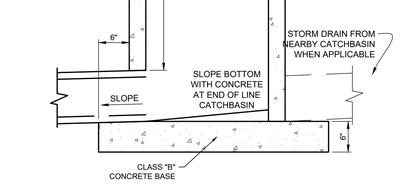
TRUNCATED DOME PANELS TO BE SIZED TO PROPER RAMP WIDTH USING EITHER 12", 24", 36" OR 48" PANELS. CUT PANELS AS NECESSARY. DOME PANELS TO MEET ALL CURRENT STATE CBC AND FEDERAL ADA REQUIREMENTS.

PANELS TO BE ARMOR TILE PANELS WITH CONTRASTING COLOR TO SURROUNDING PAVING. SEE PLANS FOR COLOR.

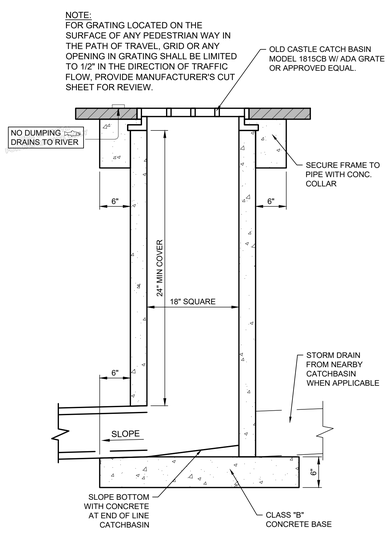
9 TRUNCATED DOMES
NOT TO SCALE




UT1 CLEAN-OUT
NOT TO SCALE

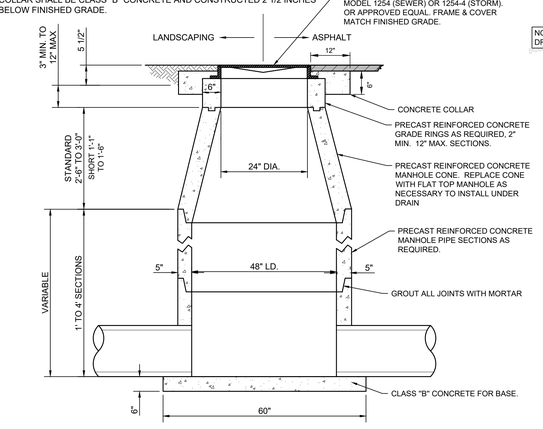



UT2 24"Ø STORM DRAIN CATCH BASIN
NOT TO SCALE



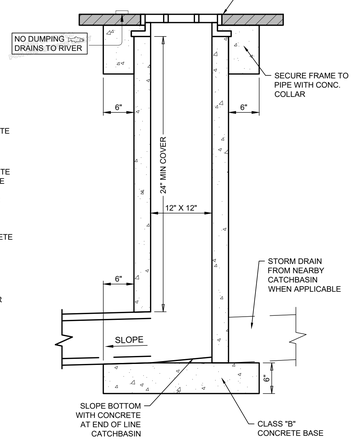

UT3 18"Ø STORM DRAIN CATCH BASIN
NOT TO SCALE

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.

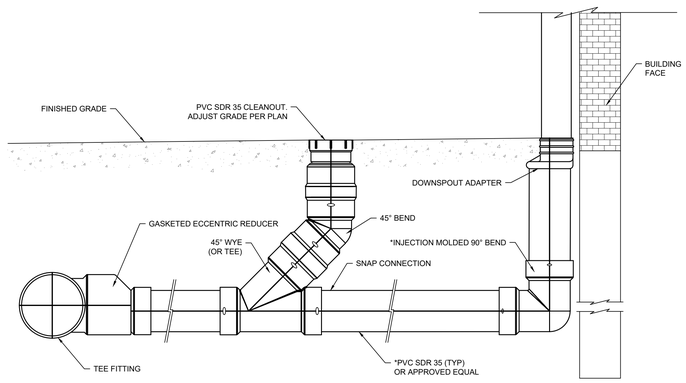



UT4 MAINTENANCE HOLE
NOT TO SCALE

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.




UT5 12" X 12" AREA DRAIN
NOT TO SCALE




UT6 ROOF DRAIN DETAIL W/ CLEANOUT
NOT TO SCALE

AGENCY APPROVAL:

KEYNOTES

NOTES

REGISTERED PROFESSIONAL ENGINEER MARSHALL T. SWIFT No. C071839 CIVIL STATE OF CALIFORNIA

811 Know what's below. Call before you dig. 811 / 800-227-2600

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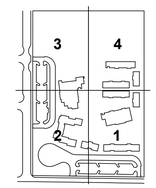
FAX : ( 209 ) 239 - 8839

KEY PLAN




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 |
|---|---|---|

FACILITY:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL**
**2801 W VINE STREET**
**LODI, CA 95242**

PROJECT:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1**

SHEET NAME:
**CONSTRUCTION DETAILS**

**DSA SUBMITTAL**

DATE: **2025.12.09**
CLIENT PROJ NO:
SHEET:

**C2.0.1**

Autodesk Docs://7343191000\LODI USD SAMUEL M. GANTNER ES R24\7343191000-A-LUSD-GANTNER ES-SITE.rvt
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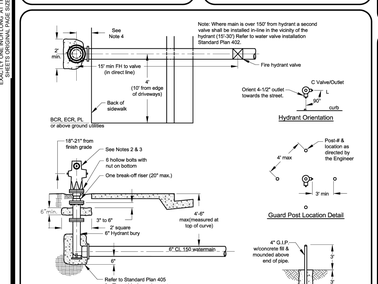
PLEASE RECYCLE

THE LINE BROKEN ABOVE IS EXACTLY 1" LONG WHEN PLOTTED ON SHEETS ORIGINAL PAPER SIZE

## CITY OF LODI — PUBLIC WORKS DEPARTMENT — Fire Hydrant Installation



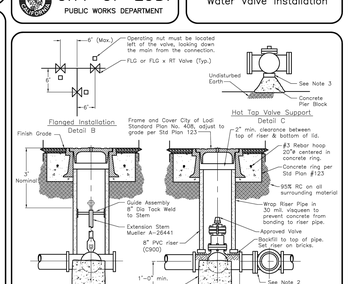

Notes:
1. All work and material shall conform to City of Lodi Construction Specifications.
2. Hydrants shall be painted Federal Yellow at the factory and furnished with National Standard Hose Thread outlets and cast iron caps.
3. All Hydrants are 4-1/2" outlet & one 2-1/2" outlet, with fusion epoxy coated interior. Clow 850; Clow 950; AVK 24/70; Jones 4040.
4. Locate C/L of hydrant per the following:
   1.5' behind walk where F.O.C. to B.O.W. distance is 7.0' or less.
   2.5' behind F.O.C. where F.O.C. to B.O.W. distance is greater than 7.0'
   5' behind F.O.C. in planters.
5. Install guard posts where hydrants are installed in paved areas accessible to traffic or in planters where hydrant is less than 3' behind the curb or when directed by the City.
6. For trench backfill requirement, See Standard Plan 501.
7. Install blue retroreflective hydrant pavement marker per std. plan 716.

| Dr. | JP | No. | Date | Revision | Appr. |
|---|---|---|---|---|---|
| Ch. | SN | 1 | 2/08 | ADJUSTED GUARD POST DEPTH | |
| Date | 11/22 | 2 | 4/22 | ORIENTED 4-1/2 OUTLET TO STREET | |
| | | 3 | 10/22 | 15' MIN FH TO VALVE | |
| | | 4 | 11/22 | ADDED NOTE 18-21' TO FG. | |

Approved By: Lyman Chang, City Engineer, RCE No. 57744 — 11/29/22 Date

STD PLAN 401

## CITY OF LODI — PUBLIC WORKS DEPARTMENT — Water Valve Installation




Notes:
1. Install extension stem when distance from valve cover to operating nut is greater than 12 feet; 3' max. nominal cover per Detail A.
2. Flanged fittings shall be used where lines are to be extended at a later date or as shown on the improvement plans. Operating nuts on flanged valves must be arranged per Detail B.
3. Concrete blocks may be used for valve and riser support; thrust blocks per Standard Plan 405. For Hot Top Valve support refer to Detail C.
4. Place Visqueen around valves before placement of concrete supports.
5. For trench backfill, see Standard Plan 501.

| Dr. | KT | No. | Date | Revision | Appr. |
|---|---|---|---|---|---|
| Ch. | WS | | | | |
| Date | 7/08 | | | | |

Approved By: Wesley Sanchez, City Engineer, RCE No. 59865 — 5/28/08 Date

Sheet 1 of 2

STD PLAN 402

## CITY OF LODI — PUBLIC WORKS DEPARTMENT — Water Valve Installation Materials List

All Water Valves & Materials shall be Class 150B with 2" square operating nuts, open left (clockwise to close) and shall conform to AWWA Standard C-504 for Rubber Seated Butterfly Valves and City of Lodi Construction Specs 6—7602.

AWWA Approved Valves:
- M&H/Clow/Kennedy RS and Butterfly
- M&H/Clow/Kennedy RS and Butterfly
- American Darling RS Gate valves
- Waterous RS Gate valve
- AVK RS Gate valves

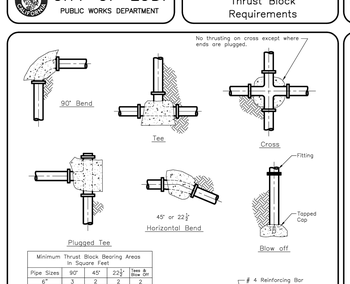
| Dr. | KT | No. | Date | Revision | Appr. |
|---|---|---|---|---|---|
| Ch. | WS | | | | |
| Date | 7/08 | | | | |

Approved By: Wesley Sanchez, City Engineer, RCE No. 59865 — 12/28/00 Date

Sheet 2 of 2

STD PLAN 402

## CITY OF LODI — PUBLIC WORKS DEPARTMENT — Thrust Block Requirements




| Minimum Thrust Block Bearing Areas In Square Feet | | | | |
|---|---|---|---|---|
| Pipe Sizes | 90° | 45° | 22½° | Tees & Dead Ends |
| 6" | 3 | 2 | 2 | 2 |
| 8" | 4 | 3 | 2 | 3 |
| 10" | 6 | 4 | 3 | 4 |
| 12" | 8 | 5 | 3 | 6 |
| 14" | 12 | 7 | 4 | 8 |

Notes:
1. Concrete shall be 2000 PSI minimum at 28 days.
2. Thrust blocks shall be placed against undisturbed earth.
3. All fittings shall be supported in concrete.
4. For fire hydrant thrusting see Std. Plan 401.
5. Don't cover flange bolts with concrete.
6. Mechanically restrained joints as required by the City. See Material List Page 2.
7. Wrap all fittings and flanges with Visqueen.

| Dr. | KT | No. | Date | Revision | Appr. |
|---|---|---|---|---|---|
| Ch. | WS | | | | |
| Date | 7/08 | | | | |

Approved By: Wesley Sanchez, City Engineer, RCE No. 59865 — 9/25/02 Date

Sheet 1 of 2

STD PLAN 405

## CITY OF LODI — PUBLIC WORKS DEPARTMENT — Thrust Block Requirements Material List

Material List for Standard Plan 405

City Approved Mechanical Restrained Joints

| Pipe Material | Joint |
|---|---|
| Ductile Iron | Mega-Lug 1100 |
| CSOPVC | Mega-Lug 2000 |
| IPS PVC | Mega-Lug 2000 |
| PVC Bell and Spicket | Mega-Lug 1600 |

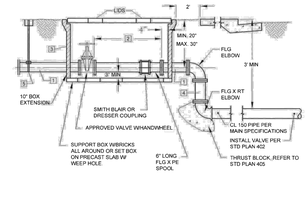
| Dr. | KT | No. | Date | Revision | Appr. |
|---|---|---|---|---|---|
| Ch. | WS | | | | |
| Date | 7/08 | | | | |

Approved By: Wesley Sanchez, City Engineer, RCE No. 59865 — 9/25/02 Date

Sheet 2 of 2

STD PLAN 405

## CITY OF LODI — PUBLIC WORKS DEPARTMENT — DOMESTIC WATER SERVICE (3", 4", 6" & 8")




NOTES:
1. METER (IF REQUIRED) WILL BE FURNISHED AND INSTALLED BY CITY.
2. BYPASS MAY BE INSTALLED WITH THE SPECIFIC APPROVAL OF THE PUBLIC WORKS DIRECTOR.
3. PLUG ALL OPENINGS IN BOX.
4. BACKFILL SHALL CONFORM TO STD PLAN 501.
5. ALL FITTINGS MUST COMPLY WITH THE LATEST STATE OF CALIFORNIA NO LEAD REQUIREMENTS.

| Dr. | KT | No. | Date | Revision | Appr. |
|---|---|---|---|---|---|
| Ch. | WS | 1 | 2/05 | REVISED SPOOL LENGTHS | |
| Date | 12/00 | | | | |

Approved By: Wesley Sanchez, City Engineer, RCE No. 59865 — 4/24/19 Date

SHEET 1 OF 2

STD PLAN 406

## CITY OF LODI — PUBLIC WORKS DEPARTMENT — DOMESTIC WATER SERVICE (3", 4", 6" & 8") MATERIALS LIST

1. FLG SPOOL, 24" LONG (2 EA) (C.L. D.I., OR STEEL)
2. FLG X PLAIN END SPOOL, LEAVE 1" GAP AT COUPLING
   - 3" - 29" LONG
   - 4" - 38" LONG ENDS OF SPOOLS
   - 6" - 43" LONG (C.I. OR STEEL)
3.

| CHRISTY OR BES BOX | LID (TRAFFIC) | | BOX EXTENSION |
|---|---|---|---|
| | CHRISTY | BES | |
| 3"x4" B-48 OR C48W | B48-6ZO | 62085 | 10" BOX EXTENSION B44 X 10 |
| 6" B-52 OR C52W | B52-6ZO | 62090 | 10" BOX EXTENSION B52 X 10 |

4. FLG SPOOL, LENGTHS AS NEEDED (OPTIONAL) (C.I. D.I., OR STEEL)
5. TEMPORARY BLOWOFF PER STD PLAN 409: 2" FOR 4"-6" SERVICE. 4" FOR 8" AND LARGER SERVICE.

ALL FITTINGS SHALL BE CAST OR DUCTILE IRON OR STEEL (AS NOTED) AND SHALL CONFORM TO APPLICABLE AWWA STANDARDS. (SCH. 40, 150 LB FLG)

TRAFFIC LIDS SHALL BE USED IN ALL LOCATION.

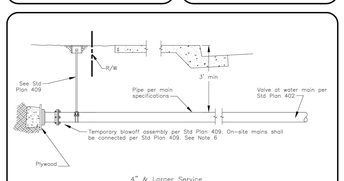
| Dr. | KT | No. | Date | Revision | Appr. |
|---|---|---|---|---|---|
| Ch. | WS | 1 | 2/05 | REVISED SPOOL LENGTHS | |
| Date | 10/08 | 2 | 10/08 | REVISED SPOOL LENGTHS | |

Approved By: Wesley Sanchez, City Engineer, RCE No. 59865 — 4/24/19 Date

SHEET 2 OF 2

STD PLAN 406

## CITY OF LODI — PUBLIC WORKS DEPARTMENT — Fire Service




Notes:
1. If not alarmed a detector check valve w/bypass meter shall be installed at fire-sprinkler system connection only. Installation details shall conform to Fire Dept. and Bldg. Dept. requirements. (See Detail A)
2. On-site fire mains shall be completely isolated from domestic lines.
3. On-site fire mains looped to the City system must be specifically approved by the Public Works Director and must be equipped with double check valve assemblies at each connection. In such cases the services shall be installed with a tee and valve in the public right-of-way. Valve assemblies installed in an appropriately sized box at the property line.
4. Suitable backflow prevention devices will be required for fire systems having auxiliary sources of supply, elevated tanks or chemical additives, or other special conditions.
5. Sufficient valves shall be provided to separate sprinkler, hydrant and domestic systems. Additional main line valves may be required depending on the complexity of the on-site system.
6. Pressure and bacteriological tests per City of Lodi Construction Specifications are required for on-site systems unless waived by the Public Works Director.
7. Systems with booster pumps shall be equipped with a pressure sustaining valve to the approval of the Public Works Director.

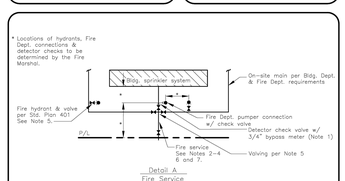
| Dr. | KT | No. | Date | Revision | Appr. |
|---|---|---|---|---|---|
| Ch. | WS | 1 | 9/03 | REVISED F.D.C. LOCATION | |
| Date | 7/00 | 2 | 2/04 | REVISED TEMP. BLOW OFF VALVE | |

Approved By: Wesley Sanchez, City Engineer, RCE No. 59865 — 2/12/08 Date

Sheet 1 of 2

STD PLAN 407

## CITY OF LODI — PUBLIC WORKS DEPARTMENT — Fire Service



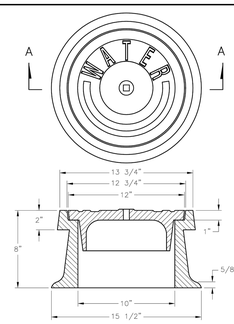

| Dr. | KT | No. | Date | Revision | Appr. |
|---|---|---|---|---|---|
| Ch. | WS | 1 | 9/03 | REVISED F.D.C. LOCATION | |
| Date | 7/00 | | | | |

Approved By: Wesley Sanchez, City Engineer, RCE No. 59865 — 9/25/02 Date

Sheet 2 of 2

STD PLAN 407

## CITY OF LODI — PUBLIC WORKS DEPARTMENT — Water Valve Frame & Cover



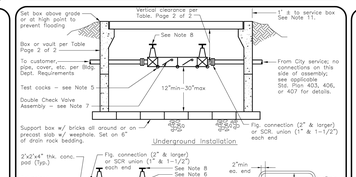

Notes:
1. Frame — Wt 85 Lbs.
2. Cover — Wt 40 Lbs.
3. Material — Cast Iron
4. Castings shall be dipped in black, bituminous paint.
5. Frame and cover must be H-20 wheel loading rated.

| Dr. | KT | No. | Date | Revision | Appr. |
|---|---|---|---|---|---|
| Ch. | WS | | | | |
| Date | 7/08 | | | | |

Approved By: Wesley Sanchez, City Engineer, RCE No. 59865 — 5/28/08 Date

STD PLAN 408

## CITY OF LODI — PUBLIC WORKS DEPARTMENT — Double Check Valve Assembly




Notes:
1. It is the customer's responsibility to have the assembly tested prior to acceptance and annually by a State Certified Backflow Prevention Tester and report the results to the Public Works Department.
2. Plug all openings in box.
3. Traffic lids shall be used where applicable.
4. Vertical clearance may be increased for OS&Y valves.
5. Locate box over assembly to provide testing clearance per plan.
6. Assembly installed above ground may be enclosed with clearances similar to underground installation.
7. Use FEBCO 850 or approved equal per State Standards.
8. Valve handles may be chained & padlocked for security.
9. This plan for domestic service only. Design for fire service applications to have approval of Public Works Director and Fire Marshal.
10. Install guard posts where device is installed in paved areas accessible to traffic or in planters less than 3' behind the curb or when directed by City.
11. Locate immediately downstream of water service box.

| Dr. | KT | No. | Date | Revision | Appr. |
|---|---|---|---|---|---|
| Ch. | WS | 1 | 2/04 | REVISED MODEL NUMBER ON NOTE #7 | |
| Date | 7/08 | | | | |

Approved By: Wesley Sanchez, City Engineer, RCE No. 59865 — 2/12/04 Date

Sheet 1 of 2

STD PLAN 411

## CITY OF LODI — PUBLIC WORKS DEPARTMENT — Double Check Valve Assembly Materials List

| Size | Vertical Clearance min / max | Box or Vault / Lid (See Note 3) (min) |
|---|---|---|
| 1" | 8" / 18" | Christy B40 or Bes C42W Box/ Christy B40-610 or Bes 61075 |
| 1-1/2" | 10" / 18" | Christy B48 or Bes C48W Box/ Christy B48-610 or Bes 62085 |
| 2" | 10" / 20" | Christy B48 or Bes C48W Box/ Christy B48-610 or Bes 62085 |
| 3" | 16" / 30" | 4'x4' Split, hinged lid |
| 4" | 20" / 36" | 4'x4' similar to Form |
| 6" | 24" / 40" | 5'x5' HAL-Lucero |
| 8" | 30" / 48" | 7'x5' Assembly |
| | | Christy B52 or Bes C52W box/ Christy or Bes 62090 |

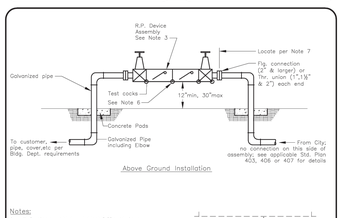
| Dr. | KT | No. | Date | Revision | Appr. |
|---|---|---|---|---|---|
| Ch. | WS | | | | |
| Date | 7/08 | | | | |

Approved By: Wesley Sanchez, City Engineer, RCE No. 59865 — 12/28/00 Date

Sheet 2 of 2

STD PLAN 411

## CITY OF LODI — PUBLIC WORKS DEPARTMENT — Reduced Pressure Backflow Device Assembly

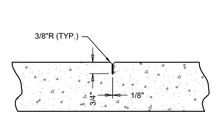



Notes:
1. It is the customers responsibility to have the assembly tested prior to acceptance and annually by a State Certified Backflow Prevention Tester and report the results to the Public Works Department.
2. Install guard posts where device is installed in paved areas accessible to traffic or in planters less than 3' behind the curb or when directed by City.
3. FEBCO 825Y or approved equal, must be on list of approved Backflow Prevention Assemblies Dept. of Health Services.
4. Valve handles may be chained & padlocked for security.
5. This plan for domestic service only. Design for fire service applications to have approval of Public Works Director and Fire Marshal.
6. Provide drainage (with air gap) for pressure relief discharge.
7. Locate assembly immediately down stream of service box.

| Dr. | KT | No. | Date | Revision | Appr. |
|---|---|---|---|---|---|
| Ch. | WS | | | | |
| Date | 12/00 | | | | |

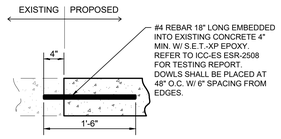
Approved By: Wesley Sanchez, City Engineer, RCE No. 59865 — 12/28/00 Date

STD PLAN 413

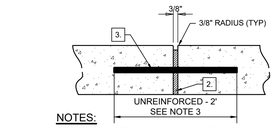



NOTES:
1. MAX SPACING OF WEAKENED PLANE JOINTS ARE 10 FEET IN ANY DIRECTION OR AS SHOWN ON PLANS.

J1 WEAKENED PLAN JOINT — NOT TO SCALE



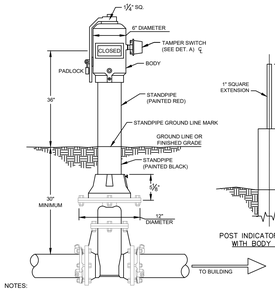

J2 DOWEL INTO EXISTING CONCRETE — NOT TO SCALE



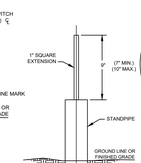

NOTES:
1. CONSTRUCT EXPANSION JOINTS PER AGENCY REQUIREMENTS AT BEGINNING & ENDS OF CURBS, EACH SIDE OF CATCH BASINS, AND OTHER FIXED OBJECTS.
2. PREFORMED FIBER EXPANSION JOINT FILLER CONFORMING TO ASTM D-1751.
3. #4 X 24" STEEL DOWELS TO BE USED AT ALL UNREINFORCED CURB EXPANSION JOINTS. REINFORCED CURB SHALL BE CONTACT LAP SPLICED LENGTH OF (50 X BAR DIAMETER).
4. MAXIMUM SPACING OF EXPANSION JOINTS ARE 80 FEET FOR CURBS AND 100 FEET SQUARE FOR FLATWORK, OR AS SHOWN ON PLANS.

J3 CONCRETE CURB EXPANSION JOINT — NOT TO SCALE

½" SQ.



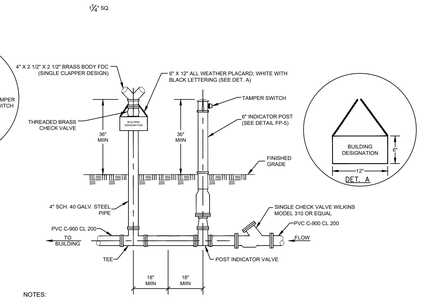

NOTES:
1. REMOVE THE BODY FROM THE TOP OF THE INDICATOR POST ASSEMBLY.
2. CUT THE REQUIRED LENGTH OFF THE BOTTOM OF THE STANDPIPE FOR THE GROUND LINE TO MATCH UP WITH THE STANDPIPE GROUND LINE MARK.
3. CUT THE 1" SQ. EXTENSION AT A DISTANCE OF 9" ABOVE THE TOP OF THE STANDPIPE.
4. SET THE "OPEN" AND "CLOSED" TARGETS FOR THE APPROPRIATE VALVE SIZE.
5. RE-ATTACH THE BODY TO THE TOP OF THE INDICATOR POST ASSEMBLY.
6. ALL POST INDICATOR VALVES SHALL BE INSTALLED WITH AN ELECTRONIC UL LISTED TAMPER SWITCH.
7. THERE SHALL BE 36" OF UNOBSTRUCTED CLEARANCE AROUND THE PERIMETER OF ALL POST INDICATOR VALVES.
8. POST INDICATOR VALVE SHALL BE LOCATED AT A MINIMUM 5-FT ROM BUILDING.




POST INDICATOR ASSEMPLY WITH BODY REMOVED

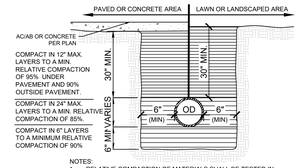
FP1 STANDARD POST INDICATOR VALVE — NOT TO SCALE

½" SQ.



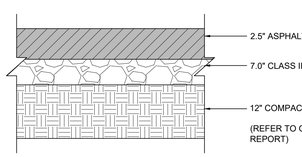

NOTES:
1. SEE PROJECT SPECS FOR MORE DETAILS.
2. ALL FIRE LINE MATERIAL SHALL BE APPROVED BY THE LOCAL FIRE MARSHAL PRIOR TO INSTALLATION.
3. TAMPER SWITCH SHALL BE INSTALLED ON PIV AND CONDUIT RUN TO BUILDING MECHANICAL ROOM OR OTHERWISE DIRECTED.
4. A MINIMUM 12" X 6" WHITE ALL WEATHER PLACARD MUST BE INSTALLED ON FDC WITH BLACK WRITING DENOTING SERVICE LOCATION.
6. ALL POST INDICATOR VALVES SHALL BE INSTALLED WITH AN ELECTRONIC UL LISTED TAMPER SWITCH.
7. THERE SHALL BE 36" OF UNOBSTRUCTED CLEARANCE AROUND THE PERIMETER OF ALL POST INDICATOR VALVES.
8. POST INDICATOR VALVE SHALL BE LOCATED AT A MINIMUM 5-FT ROM BUILDING

FP2 STANDARD POST INDICATOR VALVE — NOT TO SCALE

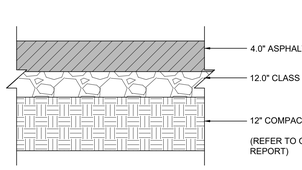



NOTES:
1. RELATIVE COMPACTION OF MATERIALS SHALL BE TESTED IN ACCORDANCE WITH THE STATE OF CALIFORNIA, DEPT. OF TRANSPORTATION TESTING MANUALS, TEST METHOD NO. CALIFORNIA 216 OR 231.
2. ALL EXISTING PAVEMENT SHALL BE NEATLY CUT TO LINE PRIOR TO TRENCH EXCAVATION.
3. NATIVE MATERIAL CAN BE USED AS TRENCH AND PIPE BACKFILL IF SE>20 AND APPROVED BY DISTRICT ENGINEER.
4. WHEN SHOWN BY SOIL COMPOSITION AND COMPACTABILITY, NINETY PERCENT (90%) COMPACTION MAY BE USED. WHEN APPROVED BY THE DISTRICT.

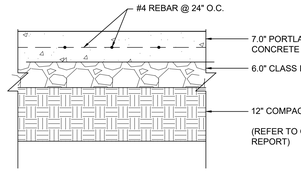
10 TYPICAL TRENCH SECTION — NOT TO SCALE



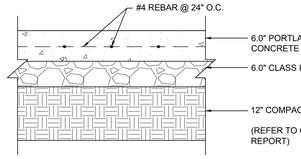

P1 STRUCTURAL SECTION - PARKING, PLAYGROUND & TRACK (TI=4.5) — NOT TO SCALE



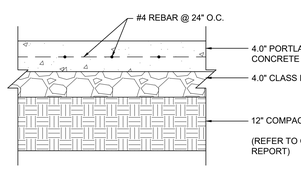

P2 STRUCTURAL SECTION - DRIVE AILES (TI=7.0) — NOT TO SCALE




P3 STRUCTURAL SECTION - DRIVING ASLE (TI=7.0) — NOT TO SCALE




P4 STRUCTURAL SECTION - CONCRETE PARKING — NOT TO SCALE




P5 CONCRETE (SIDEWALKS) — NOT TO SCALE

AGENCY APPROVAL:

KEYNOTES

NOTES


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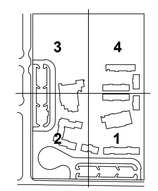
KEY PLAN




FACILITY:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL**
**2801 W VINE STREET**
**LODI, CA 95242**

PROJECT:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1**

SHEET NAME:
**CONSTRUCTION DETAILS**

**DSA SUBMITTAL**

DATE: **2025.12.09** | CLIENT PROJ NO:

SHEET:

**C2.1.1**

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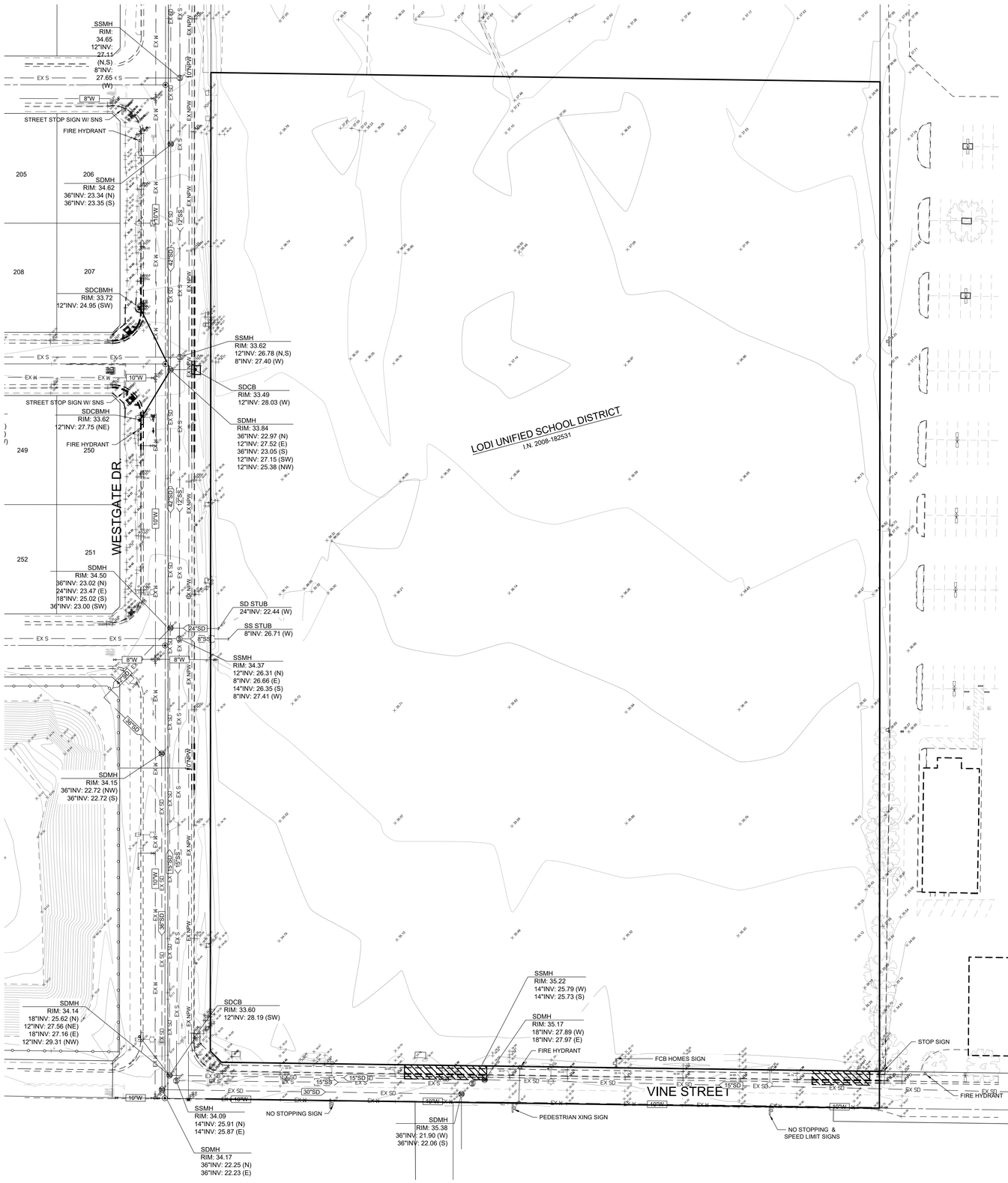
PLEASE RECYCLE

THE LINE BROWN ABOVE IS EXACTLY 1" WHEN PLOTTED AT 24x36 SHEETS ORIGINAL PAGE SIZE




## DEMOLITION LEGEND

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

## 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.

NORTH

0 20 40

PLEASE RECYCLE

**AGENCY APPROVAL:**

LODI USD


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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**ISSUE**

| Δ | DESCRIPTION | DATE |
|---|---|---|

## KEYNOTES

## NOTES

REGISTERED PROFESSIONAL ENGINEER — MARSHALL F. SMITH — No. C29439 — CIVIL — STATE OF CALIFORNIA

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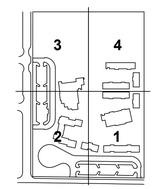
## KEY PLAN




FACILITY:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL**
**2801 W VINE STREET**
**LODI, CA 95242**

PROJECT:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1**

SHEET NAME:
**TOPOGRAPHIC SURVEY & DEMOLITION PLAN**

**DSA SUBMITTAL**

DATE: **2025.12.09** | CLIENT PROJ NO:

SHEET:

# C3.0.1

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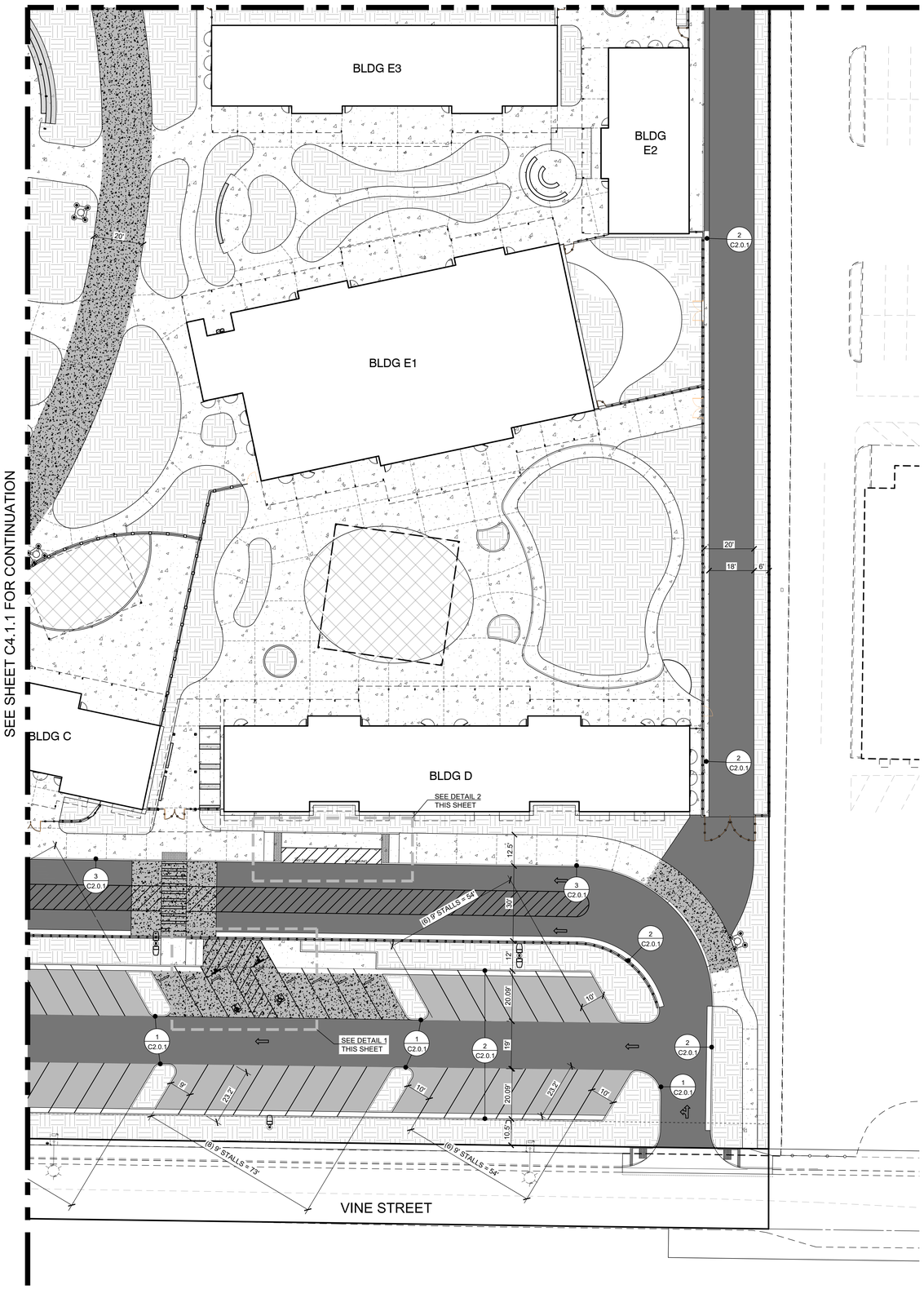
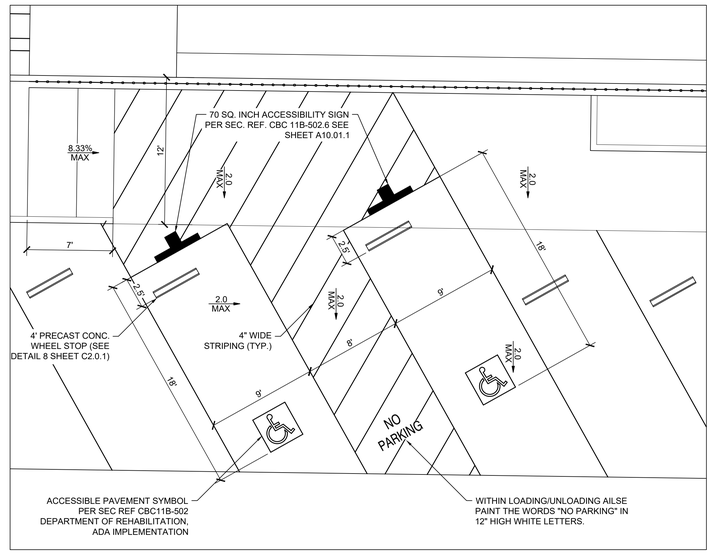
SEE SHEET C4.3.1 FOR CONTINUATION



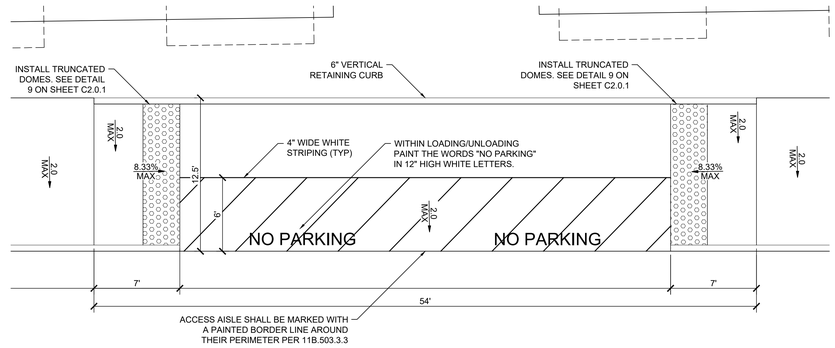

SEE SHEET C4.1.1 FOR CONTINUATION




1 ADA STALLS @ PARKING LOT 1

SCALE: 1" = 5'

REFER TO GRADING PLANS DETAIL 1 FOR ACTUAL DESIGN GRADES




2 ADA DROP-OFF @ PARKING LOT 1

SCALE: 1" = 5'

REFER TO GRADING PLANS DETAIL 1 FOR ACTUAL DESIGN GRADES

## INTERNATIONAL SYMBOL OF ACCESSIBILITY:

1. SYMBOL SHALL BE WHITE FIGURE ON BLUE BACKGROUND.
2. A SURFACE IDENTIFICATION AT ALL ACCESSIBLE PARKING STALLS SHALL BE 3' X 3' AND SHALL BE LOCATED SO THAT IT IS VISIBLE TO A TRAFFIC ENFORCEMENT OFFICER WHEN A VEHICLE IS PROPERLY PARKED.

## SIGNAGE:

1. EACH PARKING SPACE SHALL HAVE A PERMANENT (70 SQ. IN. MIN.) ACCESSIBLE SIGN.
2. FREE STANDING SIGNS LOCATED AT INTERIOR END OF A PARKING SPACE SHALL BE MOUNTED A MINIMUM OF 80" ABOVE FINISH GRADE.
3. WALL MOUNTED SIGNS MAY ALSO BE LOCATED AT INTERIOR. END OF PARKING SPACE AND SHALL BE MOUNTED A MINIMUM OF 60" ABOVE FINISH GRADE.
4. OFF-STREET PARKING FACILITIES SHALL HAVE A SIGN AT EACH STREET ENTRANCE OR AT EACH PARKING STALL NOT LESS THAN 17" X 22" IN SIZE, ALSO IN 1" HIGH LETTERS , AS FOLLOWS:

"UNAUTHORIZED VEHICLES PARKED IN DESIGNATED ACCESSIBLE SPACES NOT DISPLAYING DISTINGUISHING PLACARDS OR SPECIAL LICENSE PLATE ISSUED FOR PERSONS WITH DISABILITIES WILL BE TOWED AWAY AT THE OWNER'S EXPENSE. TOWED VEHICLE MAY BE RECLAIMED AT THE LODI POLICE DEPARTMENT OR BY TELEPHONING (209) 369-CRIME."

## PARKING NOTES:

1. ACCESSIBLE SPACE SHALL BE AS NEAR AS POSSIBLE TO THE PRIMARY ENTRANCE OF THE BUILDING.
2. FREE STANDING SIGNS LOCATED AT INTERIOR END OF A PARKING SPACE SHALL BE MOUNTED A MINIMUM 80 " HIGH IF IN PATH OF TRAVEL.
3. BUMPERS ARE REQUIRED WHEN NO CURB BARRIER IS PROVIDED WHICH WILL PREVENT ENCROACHMENT OF CARS OVER WALKWAYS.
4. WHEELCHAIRS USERS MUST NOT BE FORCED TO GO BEHIND PARKED CARS OTHER THAN THEIR OWN.
5. EACH PARKING SPACE IS REQUIRED TO BE AT LEAST 18' LONG.
6. SURFACE SLOPES OF PARKING AREAS FOR THE DISABLED SHOULD BE MINIMAL, BUT ARE REQUIRED NOT TO EXCEED 1:48 IN ANY DIRECTION.

## 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.

## PAVEMENT SECTIONS:

- ASPHALT PAVEMENT: T.I. = 7.0 • 4.0" A.C. OVER 12.0" A.B. REFER TO SHEET C2.1.1 DETAIL P2
- ASPHALT PAVEMENT: T.I. = 4.5 • 2.5" A.C OVER 7.0" A.B. REFER TO SHEET C2.1.1 DETAIL P1
- HEAVY CONCRETE: • 7.0" CONCRETE OVER 6.0" A.B. REFER TO SHEET C2.1.1 DETAIL P3
- CONCRETE: • 4.0" CONCRETE OVER 6.0" A.B. REFER TO SHEET C2.0.1 DETAIL P4
- 1 / C2.0 DETAIL LETTER / NUMBER SHEET LOCATION
- EXISTING CONCRETE:
- EXISTING PAVEMENT:
- PROPOSED LANDSCAPE:
- PROPOSED DECOMPOSED GRANITE: SEE ARCHITECTURAL LANDSCAPE PLANS
- CONCRETE SEAT, PLANTERS, RAMPS, STAIRS & PLATFORM (REFER TO ARCHITECTURAL PLANS FOR DETAILS)

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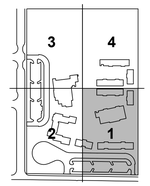


FACILITY:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL**
**2801 W VINE STREET**
**LODI, CA 95242**

PROJECT:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1**

SHEET NAME:
**DIMENSIONING & PAVING PLAN SE**

**DSA SUBMITTAL**

DATE: **2025.12.09** CLIENT PROJ NO:

SHEET:

# C4.0.1

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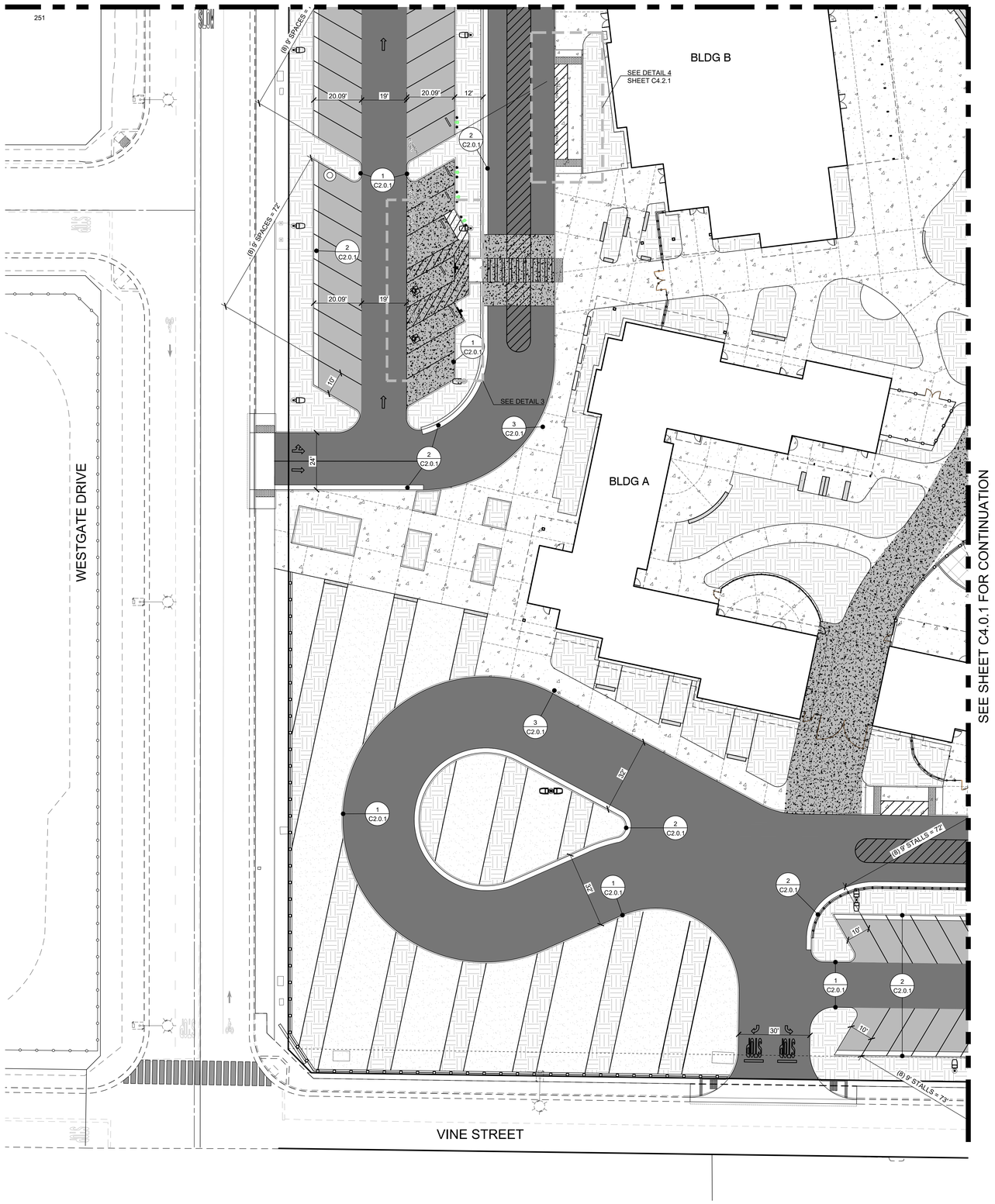


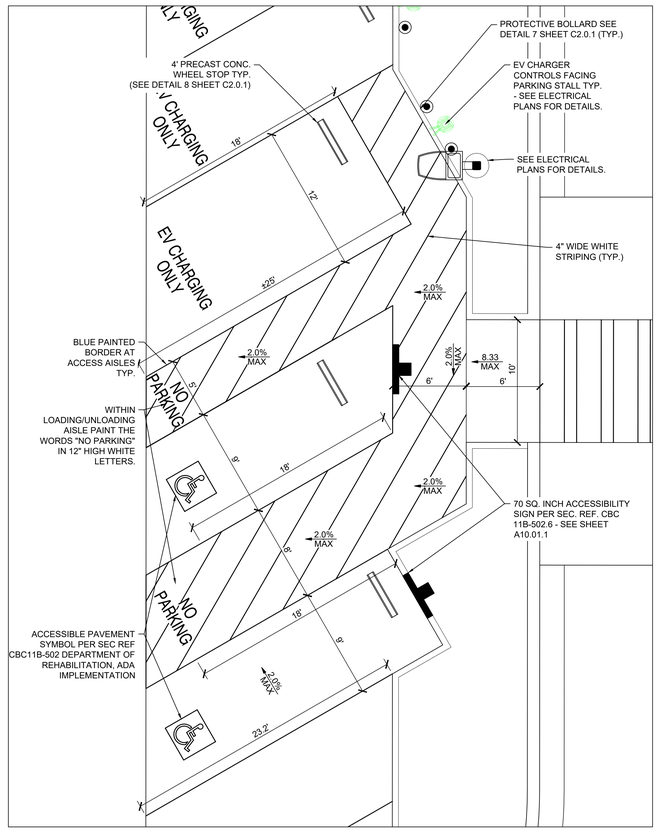


3 ADA PARKING @ PARKING LOT 2

SCALE: 1" = 5'

REFER TO GRADING PLANS DETAIL 2 FOR ACTUAL DESIGN GRADES

## INTERNATIONAL SYMBOL OF ACCESSIBILITY:

1. SYMBOL SHALL BE WHITE FIGURE ON BLUE BACKGROUND.
2. A SURFACE IDENTIFICATION AT ALL ACCESSIBLE PARKING STALLS SHALL BE 3' X 3' AND SHALL BE LOCATED SO THAT IT IS VISIBLE TO A TRAFFIC ENFORCEMENT OFFICER WHEN A VEHICLE IS PROPERLY PARKED.

## SIGNAGE:

1. EACH PARKING SPACE SHALL HAVE A PERMANENT (70 SQ. IN. MIN.) ACCESSIBLE SIGN.
2. FREE STANDING SIGNS LOCATED AT INTERIOR END OF A PARKING SPACE SHALL BE MOUNTED A MINIMUM OF 80" ABOVE FINISH GRADE.
3. WALL MOUNTED SIGNS MAY ALSO BE LOCATED AT INTERIOR. END OF PARKING SPACE AND SHALL BE MOUNTED A MINIMUM OF 60" ABOVE FINISH GRADE.
4. OFF-STREET PARKING FACILITIES SHALL HAVE A SIGN AT EACH STREET ENTRANCE OR AT EACH PARKING STALL NOT LESS THAN 17" X 22" IN SIZE, ALSO IN 1" HIGH LETTERS , AS FOLLOWS:

"UNAUTHORIZED VEHICLES PARKED IN DESIGNATED ACCESSIBLE SPACES NOT DISPLAYING DISTINGUISHING PLACARDS OR SPECIAL LICENSE PLATE ISSUED FOR PERSONS WITH DISABILITIES WILL BE TOWED AWAY AT THE OWNER'S EXPENSE. TOWED VEHICLE MAY BE RECLAIMED AT THE LODI POLICE DEPARTMENT OR BY TELEPHONING (209) 369-CRIME."

## PARKING NOTES

1. ACCESSIBLE SPACE SHALL BE AS NEAR AS POSSIBLE TO THE PRIMARY ENTRANCE OF THE BUILDING.
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3. BUMPERS ARE REQUIRED WHEN NO CURB BARRIER IS PROVIDED WHICH WILL PREVENT ENCROACHMENT OF CARS OVER WALKWAYS.
4. WHEELCHAIRS USERS MUST NOT BE FORCED TO GO BEHIND PARKED CARS OTHER THAN THEIR OWN.
5. EACH PARKING SPACE IS REQUIRED TO BE AT LEAST 18' LONG.
6. SURFACE SLOPES OF PARKING AREAS FOR THE DISABLED SHOULD BE MINIMAL, BUT ARE REQUIRED NOT TO EXCEED 1:48 IN ANY DIRECTION.

## 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 PAINTED RED WITH WHITE LETTERING DESIGNATING "NO PARKING FIRE LANE".
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5. CONTRACTOR SHALL ADJUST EXISTING MANHOLE RIMS, WATER VALVES, ELECTRICAL BOXES/VAULTS, UTILITY APPURTENANCES & MONUMENT BOXES TO FINISH GRADE.

## PAVEMENT SECTIONS:

- ASPHALT PAVEMENT: T.I. = 7.0 • 4.0" A.C. OVER 12.0" A.B. REFER TO SHEET C2.1.1 DETAIL P2
- ASPHALT PAVEMENT: T.I. = 4.5 • 2.5" A.C OVER 7.0" A.B. REFER TO SHEET C2.1.1 DETAIL P1
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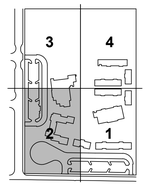


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**2801 W VINE STREET**
**LODI, CA 95242**

PROJECT:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1**

SHEET NAME:
**DIMENSIONING & PAVING PLAN SW**

**DSA SUBMITTAL**

DATE: **2025.12.09**
CLIENT PROJ NO:
SHEET:

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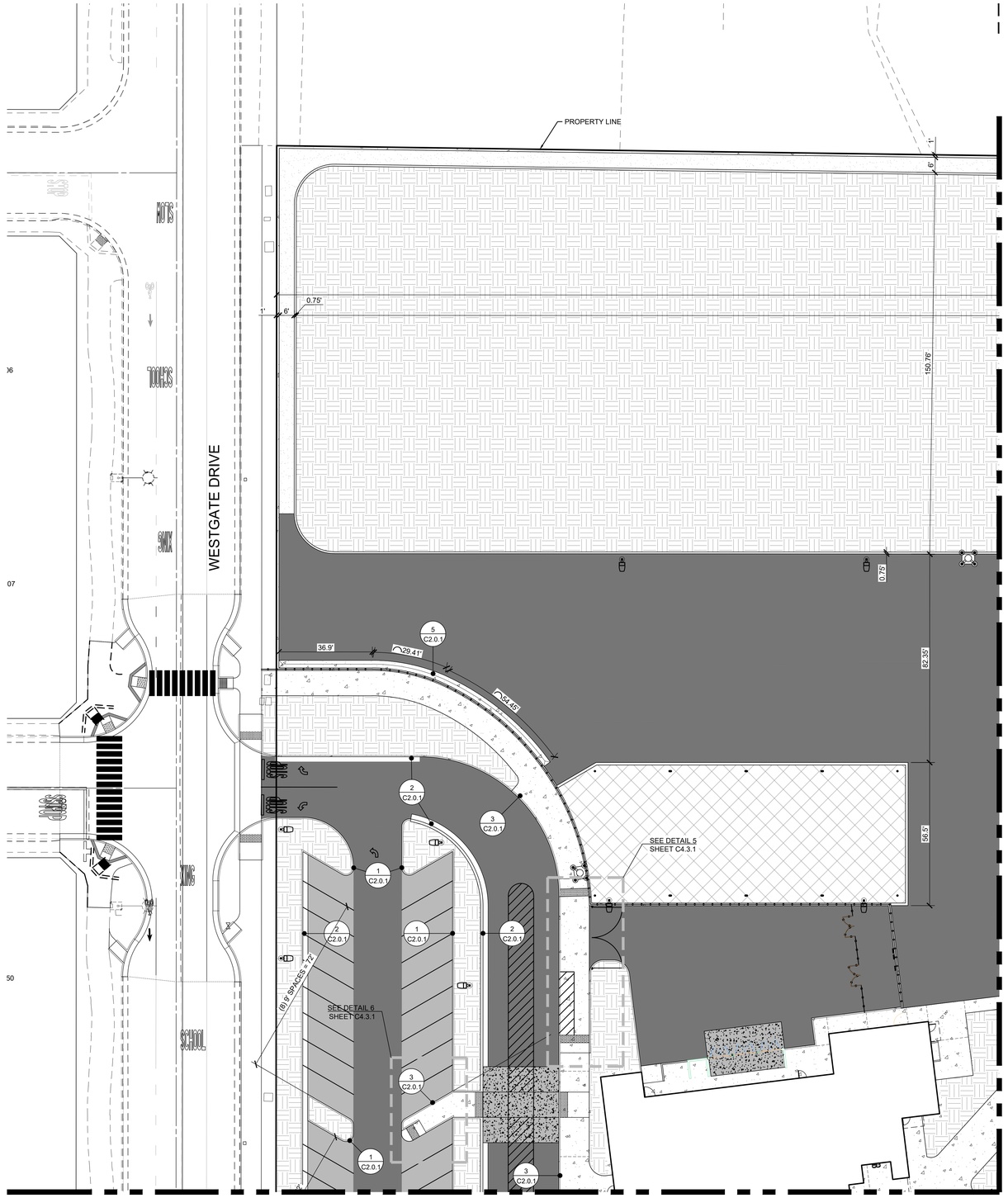


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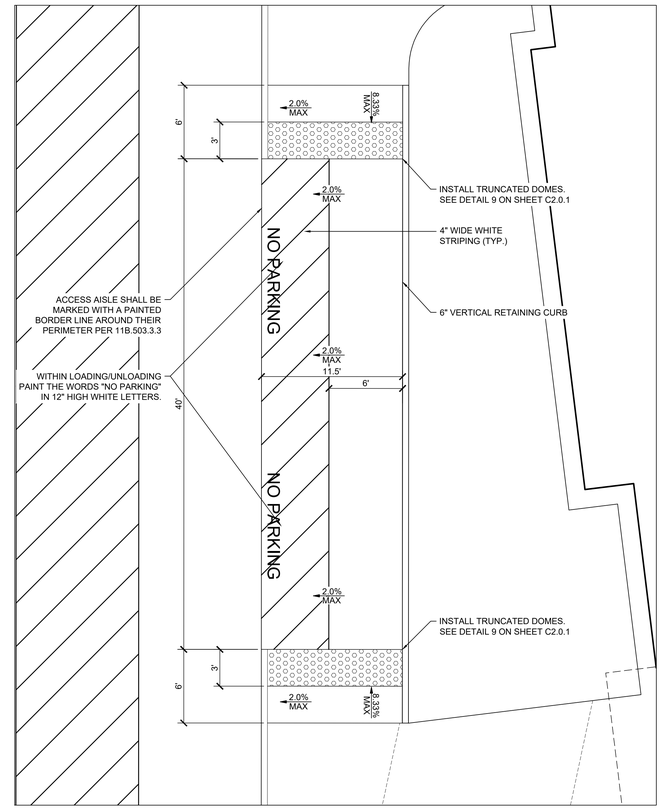


4 ADA DROP-OFF @ PARKING LOT 2

SCALE: 1" = 5'

REFER TO GRADING PLANS DETAIL 2 FOR ACTUAL DESIGN GRADES

## INTERNATIONAL SYMBOL OF ACCESSIBILITY:

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## NOTES:

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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".
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- ASPHALT PAVEMENT: T.I. = 4.5 • 2.5" A.C OVER 7.0" A.B. REFER TO SHEET C2.1.1 DETAIL P1
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- CONCRETE: • 4.0" CONCRETE OVER 6.0" A.B. REFER TO SHEET C2.1.1 DETAIL P4
- PROPOSED DECOMPOSED GRANITE: SEE ARCHITECTURAL LANDSCAPE PLANS
- 1 / C2.0 DETAIL LETTER / NUMBER SHEET LOCATION
- EXISTING CONCRETE:
- EXISTING PAVEMENT:
- PROPOSED LANDSCAPE: SEE LANDSCAPE PLANS
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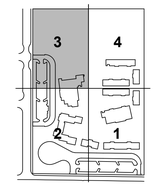


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**2801 W VINE STREET**
**LODI, CA 95242**

PROJECT:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1**

SHEET NAME:
**DIMENSIONING & PAVING PLAN NW**

**DSA SUBMITTAL**

DATE: **2025.12.09** CLIENT PROJ NO:

SHEET:

# C4.2.1

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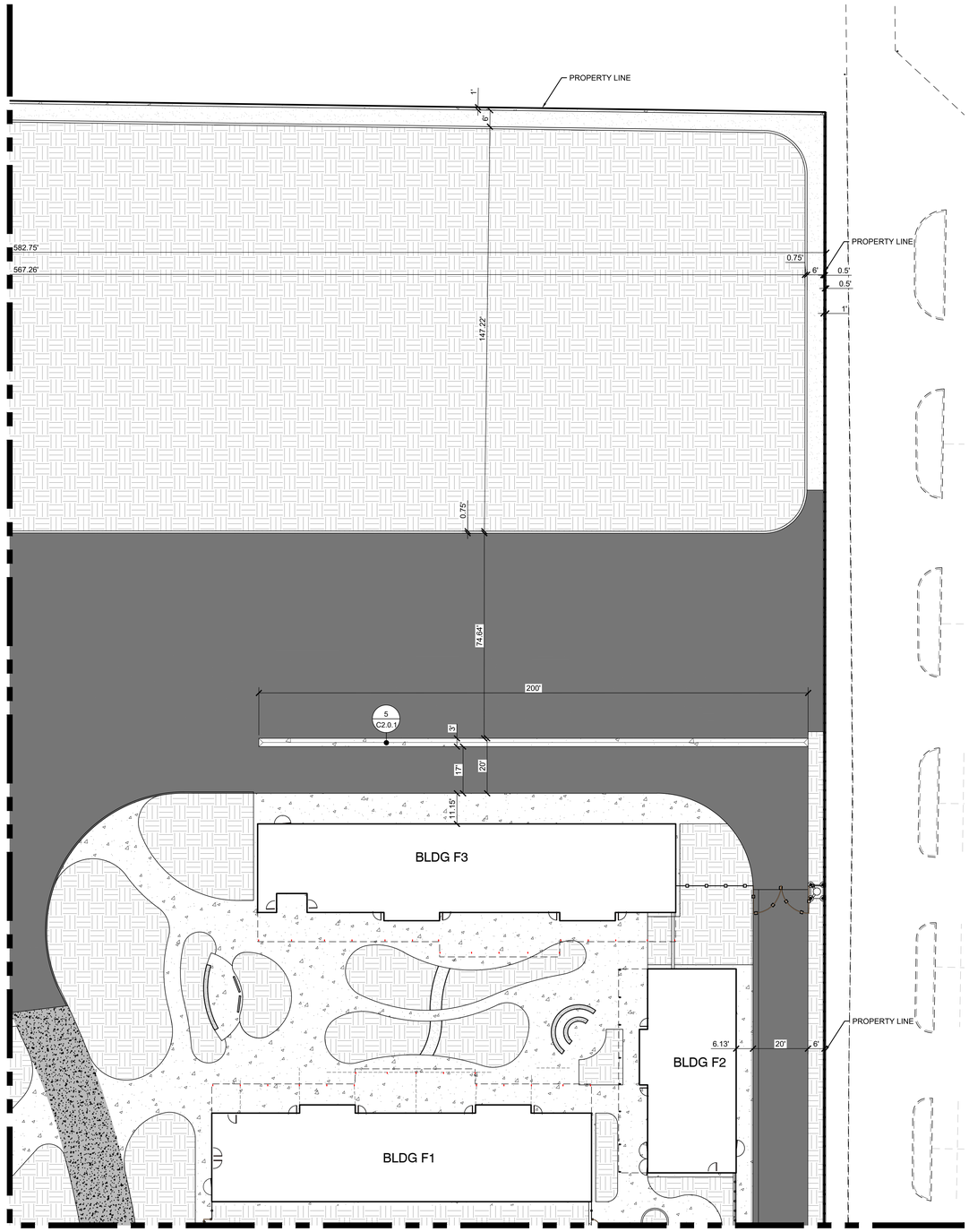
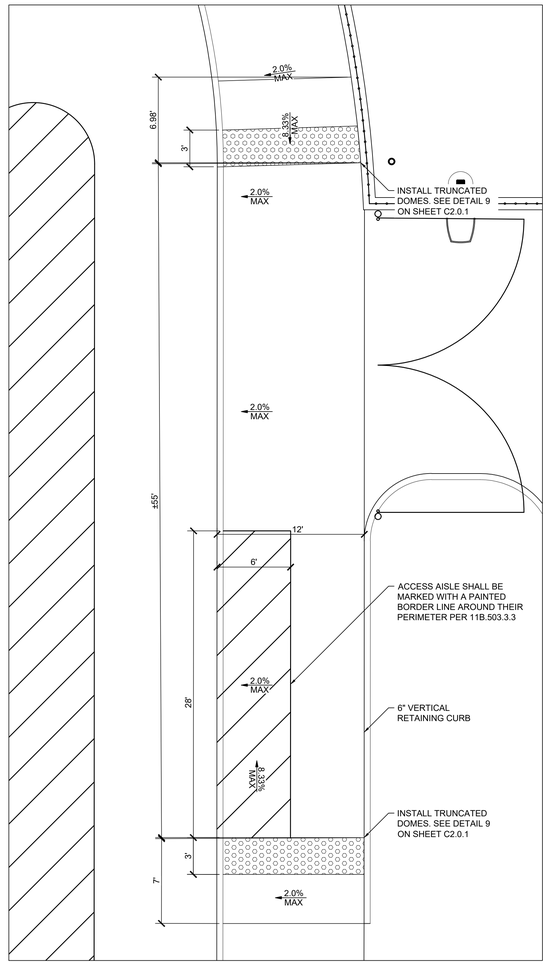



SEE SHEET C4.2.1 FOR CONTINUATION

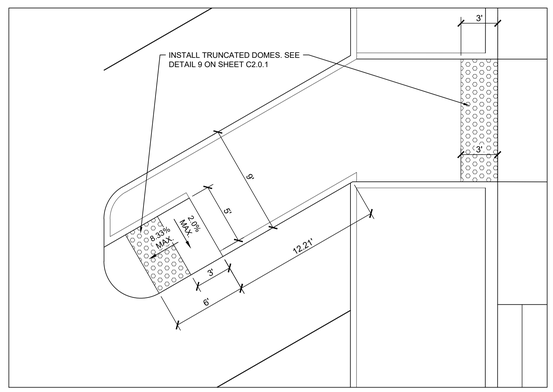
SEE SHEET C4.0.1 FOR CONTINUATION




5 ADA RAMPS @ UTILITY YARD DRIVEWAY

SCALE: 1" = 5'

REFER TO GRADING PLANS DETAIL 3 FOR ACTUAL DESIGN GRADES




6 ADA RAMP @ PARKING LOT 1

SCALE: 1" = 5'

REFER TO GRADING PLANS DETAIL 3 FOR ACTUAL DESIGN GRADES

## NOTES:

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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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- PROPOSED DECOMPOSED GRANITE: SEE ARCHITECTURAL LANDSCAPE PLANS
- CONCRETE SEAT, PLANTERS, RAMPS, STAIRS & PLATFORM (REFER TO ARCHITECTURAL PLANS FOR DETAILS)
- 1 / C2.0 DETAIL LETTER / NUMBER SHEET LOCATION

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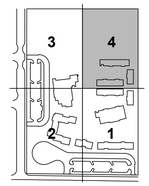


FACILITY:
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**LODI, CA 95242**

PROJECT:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1**

SHEET NAME:
**DIMENSIONING & PAVING PLAN NE**

**DSA SUBMITTAL**

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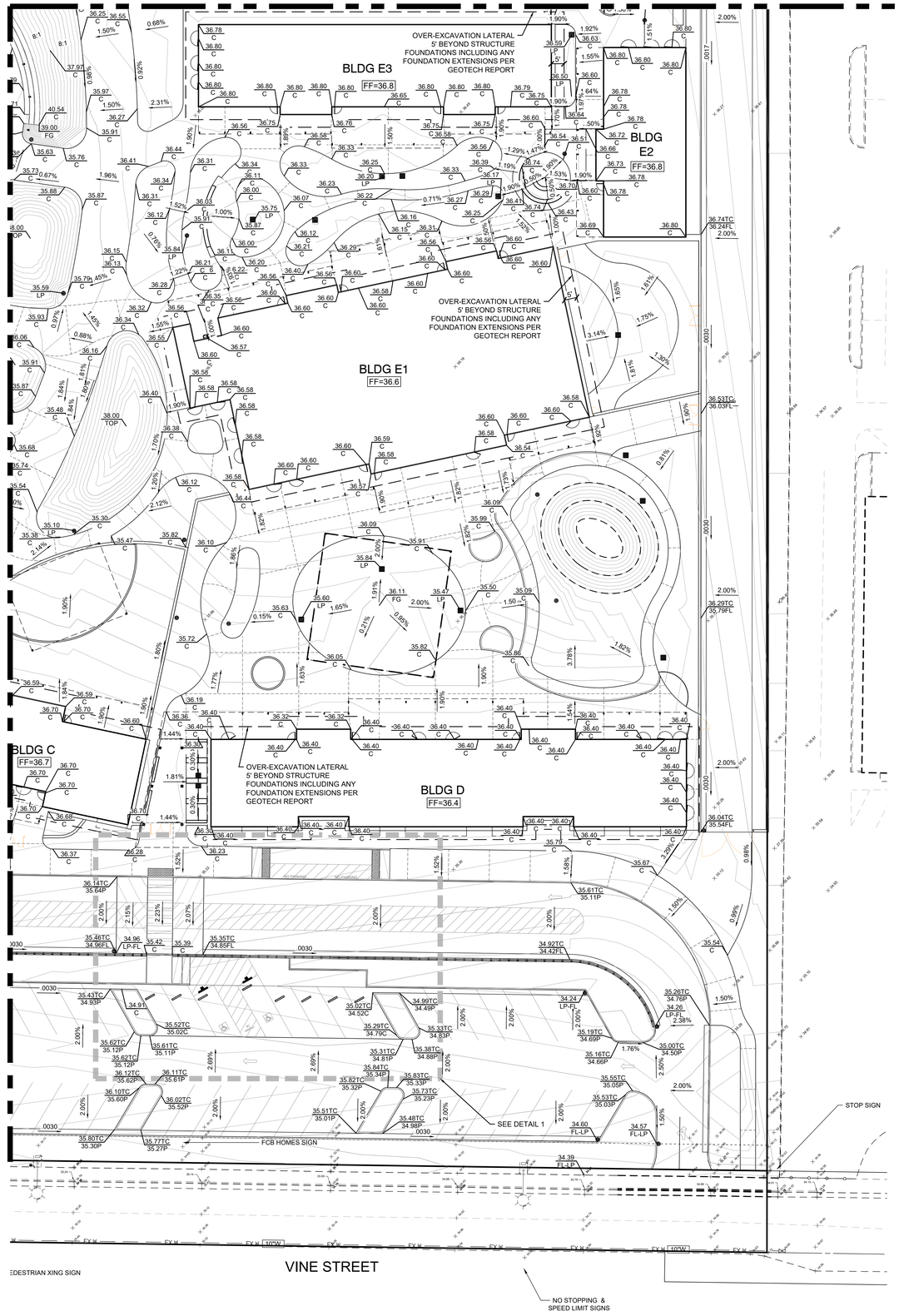
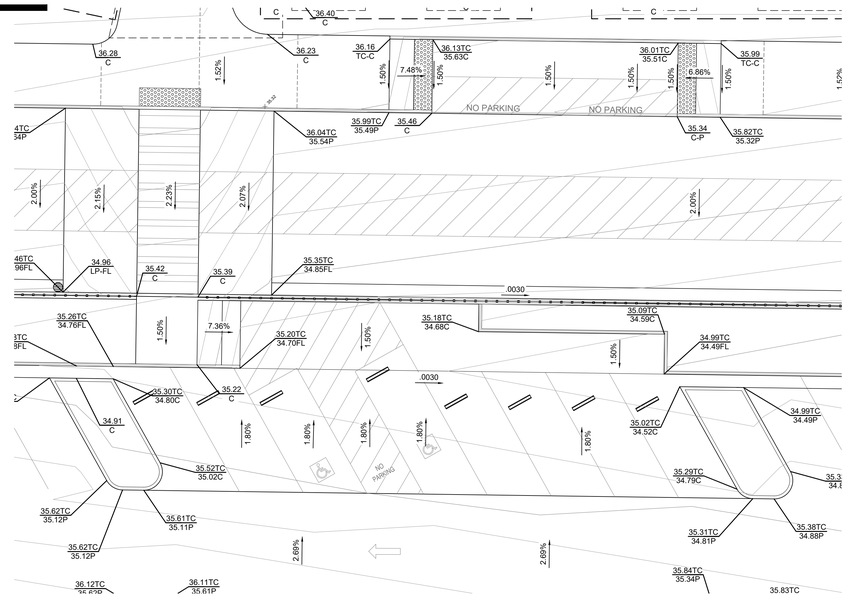
SEE SHEET C5.2.1 FOR CONTINUATION




1 ADA PARKING STALLS @ PARKING LOT 1

SCALE: 1" = 10'

## EXISTING

EXISTING GROUND

## PROPOSED

XX.XX / XX ELEVATION

X.XX% SLOPE

#### DIRECTION OF FLOWLINE

## GRADING NOTES:

1. FOR ACCESSIBLE PATH OF TRAVEL REQUIREMENTS REFER TO ARCHITECTURAL PLANS, SHEET G1.11.1.
2. SURFACE GRADES AT EXTERIOR DOORS AND LANDINGS SHALL HAVE SLOPES NO STEEPER THAN 1.9% IN ANY DIRECTION.
3. ENTRANCE GRADES AT LANDINGS SHALL NOT BE LOWER THAT 1/4-INCH FROM BUILDING FINISH FLOOR ELEVATION.
4. SEE ARCHITECTURAL DRAWINGS FOR ALL CONCRETE PATTERNS & SCORING.
5. ALL NEW SURFACE IMPROVEMENTS LOCATED WITHIN DESIGNATED PATH OF TRAVEL SHALL HAVE A MAXIMUM CROSS SLOPE OF 1.90% AND A MAXIMUM LONGITUDINAL SLOPE OF 4.90% UNLESS AREAS OTHERWISE DESIGNATED AS RAMPS. REFER TO ARCHITECTURAL PLANS (SEE SHEET AS1.4) FOR ACCESSIBLE PATH OF TRAVEL LOCATIONS AND DETAILS
6. CURB RAMPS SHALL HAVE A MAXIMUM LONGITUDINAL SLOPE OF 8.33% AND A MAXIMUM CROSS SLOPE OF 1.90%
7. FLOWLINE GRADES @ CURB INLET CATCH BASIN LOW POINTS ARE PROJECT FLOW LINE GRADES. CONTRACTOR SHALL CONSTRUCT LOW POINT PER PLANS CURB INLET CATCH BASIN DETAIL HOLDING TOP OF CURB GRADE.
8. CROSS SLOPES OF IMPERVIOUS SURFACES ADJACENT TO BUILDINGS TO BE 1% MIN., 2% MAX.

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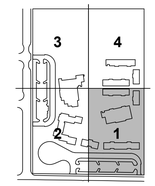


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PROJECT:
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SHEET NAME:
**GRADING PLAN SE**

**DSA SUBMITTAL**

DATE: **2025.12.09** | CLIENT PROJ NO:

SHEET:

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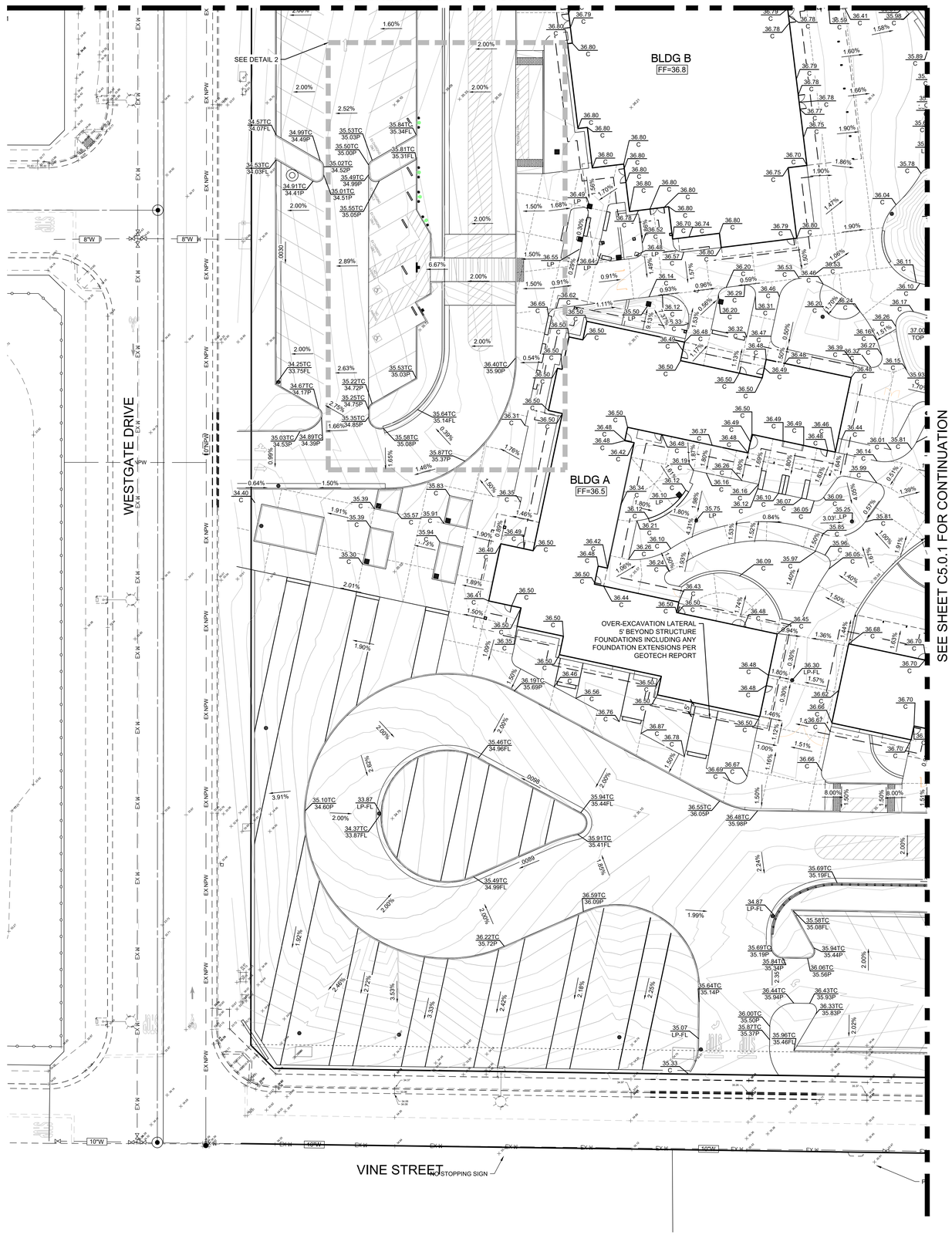
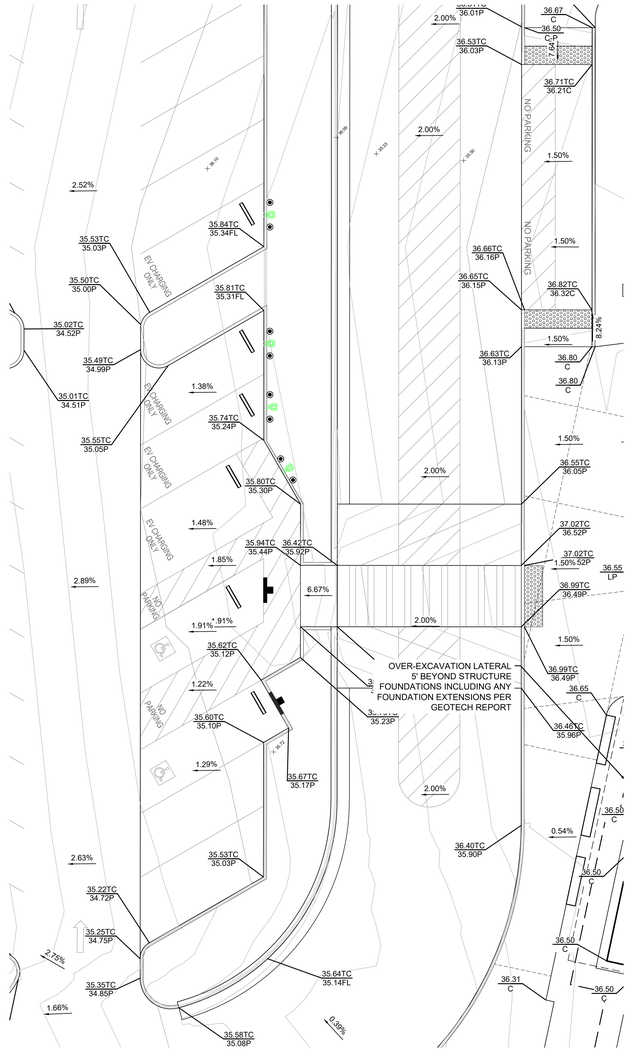
SEE SHEET C5.2.1 FOR CONTINUATION

SEE SHEET C5.0.1 FOR CONTINUATION




2 ADA PARKING @ PARKING LOT 2

SCALE: 1" = 10'

| EXISTING | PROPOSED |
|---|---|
| EXISTING GROUND | XX.XX / XX ELEVATION |
| | X.XX% SLOPE |
| | #### DIRECTION OF FLOWLINE |

## GRADING NOTES:

1. FOR ACCESSIBLE PATH OF TRAVEL REQUIREMENTS REFER TO ARCHITECTURAL PLANS, SHEET G1.11.1.
2. SURFACE GRADES AT EXTERIOR DOORS AND LANDINGS SHALL HAVE SLOPES NO STEEPER THAN 1.9% IN ANY DIRECTION.
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5. ALL NEW SURFACE IMPROVEMENTS LOCATED WITHIN DESIGNATED PATH OF TRAVEL SHALL HAVE A MAXIMUM CROSS SLOPE OF 1.90% AND A MAXIMUM LONGITUDINAL SLOPE OF 4.90% UNLESS AREAS OTHERWISE DESIGNATED AS RAMPS. REFER TO ARCHITECTURAL PLANS (SEE SHEET AS1.4) FOR ACCESSIBLE PATH OF TRAVEL LOCATIONS AND DETAILS
6. CURB RAMPS SHALL HAVE A MAXIMUM LONGITUDINAL SLOPE OF 8.33% AND A MAXIMUM CROSS SLOPE OF 1.90%
7. FLOWLINE GRADES @ CURB INLET CATCH BASIN LOW POINTS ARE PROJECT FLOW LINE GRADES. CONTRACTOR SHALL CONSTRUCT LOW POINT PER PLANS CURB INLET CATCH BASIN DETAIL HOLDING TOP OF CURB GRADE.
8. CROSS SLOPES OF IMPERVIOUS SURFACES ADJACENT TO BUILDINGS TO BE 1% MIN., 2% MAX.

NORTH

0 10 20

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KEYNOTES

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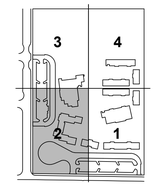


FACILITY:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL**
**2801 W VINE STREET**
**LODI, CA 95242**

PROJECT:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1**

SHEET NAME:
**GRADING PLAN SW**

**DSA SUBMITTAL**

DATE: **2025.12.09**
CLIENT PROJ NO:

SHEET:
**C5.1.1**

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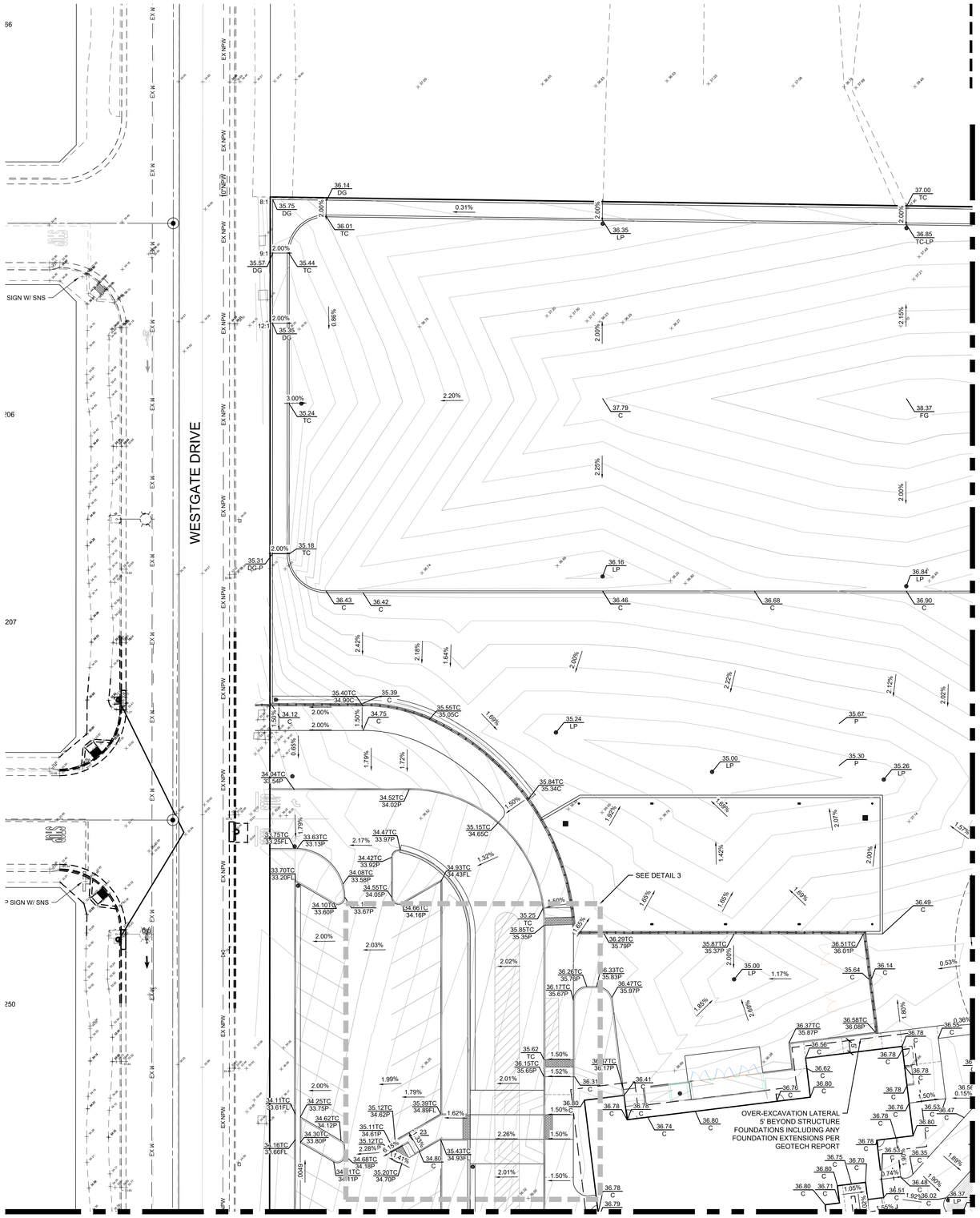


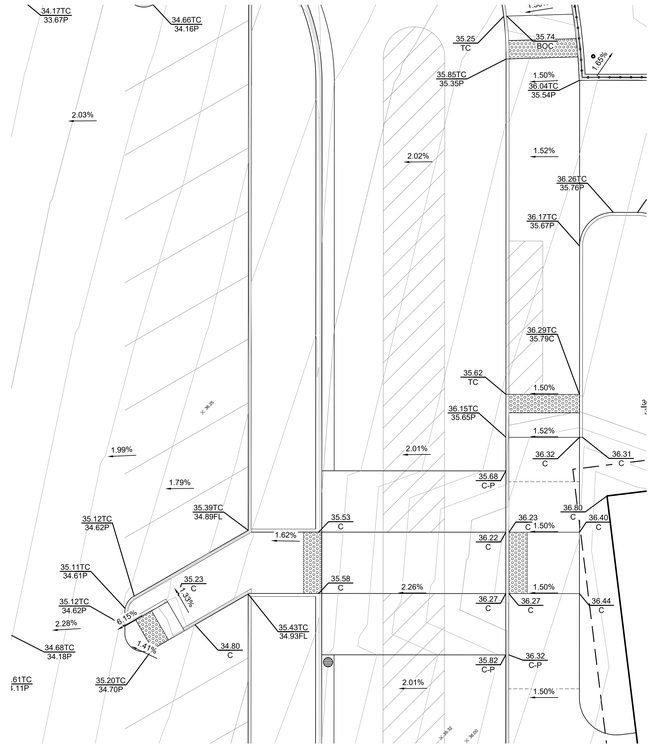

3 ADA RAMPS @ UTILITY YARD DRVEWAY & PARKING LOT 1

SCALE: 1" = 10'

| EXISTING | PROPOSED |
|---|---|
| XX.XX EXISTING GROUND | XX.XX / XX ELEVATION |
| | X.XX% SLOPE |
| | #### DIRECTION OF FLOWLINE |

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NORTH

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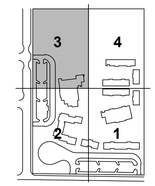


FACILITY:
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**2801 W VINE STREET**
**LODI, CA 95242**

PROJECT:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1**

SHEET NAME:
**GRADING PLAN NW**

**DSA SUBMITTAL**

DATE: **2025.12.09** | CLIENT PROJ NO:

SHEET:

# C5.2.1

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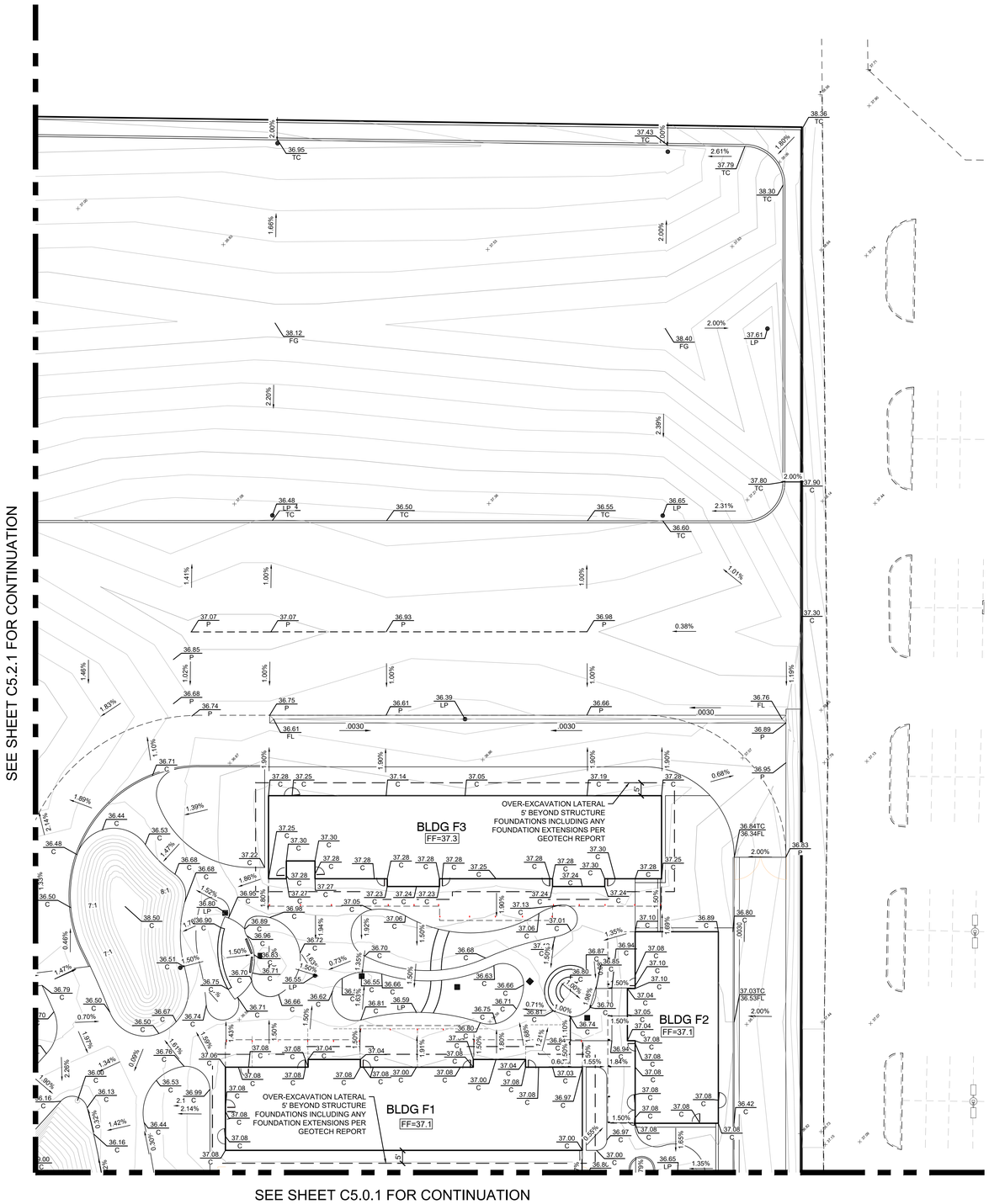


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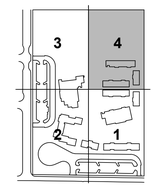


| EXISTING | PROPOSED |
|---|---|
| XX.XX EXISTING GROUND | XX.XX / XX ELEVATION |
| | X.XX% SLOPE |
| | #### DIRECTION OF FLOWLINE |

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NORTH

0 20 10

FACILITY:
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**2801 W VINE STREET**
**LODI, CA 95242**

PROJECT:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1**

SHEET NAME:
**GRADING PLAN NE**

**DSA SUBMITTAL**

DATE: **2025.12.09** | CLIENT PROJ NO:

SHEET:

# C5.3.1

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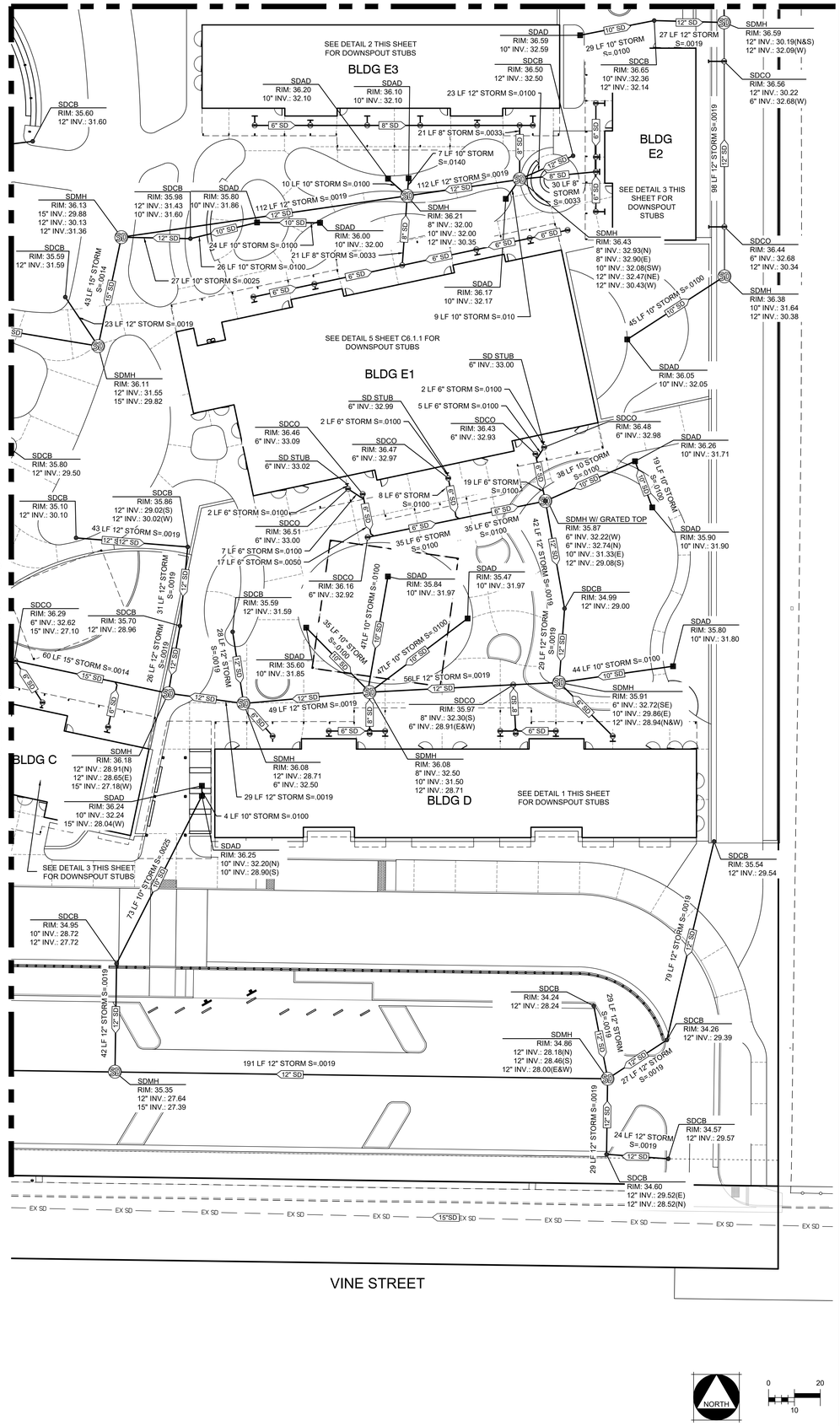
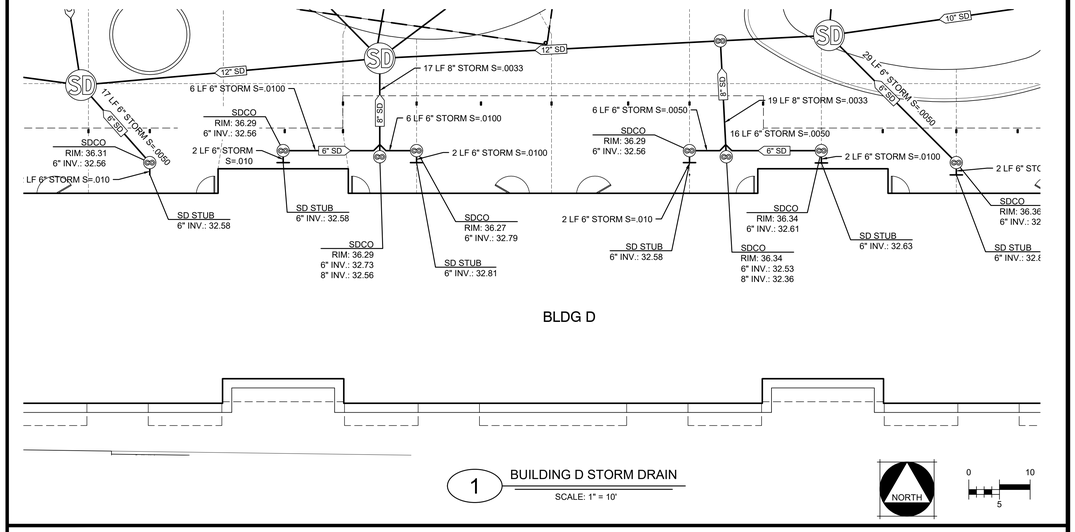
SEE SHEET C5.3.1 - GRADING PLAN NE FOR CONTINUATION

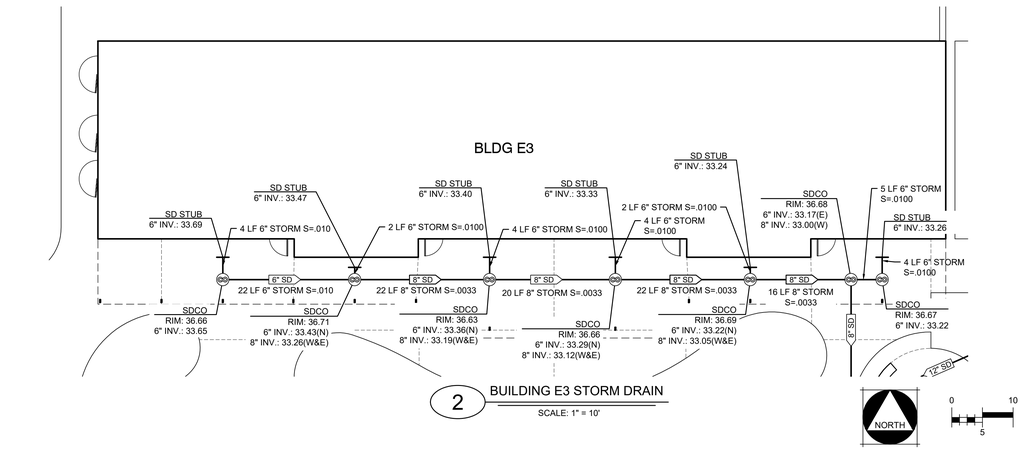
SEE SHEET C5.2.1 FOR CONTINUATION



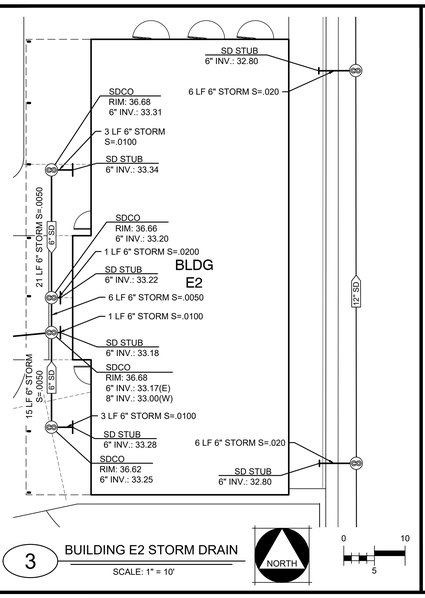

1 BUILDING D STORM DRAIN

SCALE: 1" = 10'



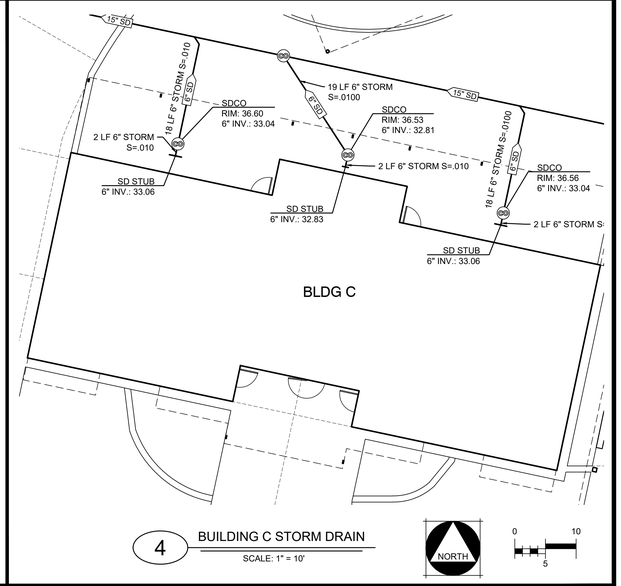

2 BUILDING E3 STORM DRAIN

SCALE: 1" = 10'




3 BUILDING E2 STORM DRAIN

SCALE: 1" = 10'




4 BUILDING C STORM DRAIN

SCALE: 1" = 10'

## 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

FOR EXISTING BASIN IMPROVEMENTS SEE OFFSITE IMPROVEMENT PLANS PER SEPERATE PERMIT

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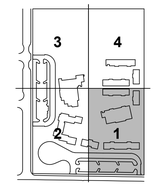


FACILITY:
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**2801 W VINE STREET**
**LODI, CA 95242**

PROJECT:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1**

SHEET NAME:
**STORM DRAIN PLAN SE**

**DSA SUBMITTAL**

DATE: **2025.12.09** | CLIENT PROJ NO:

SHEET:

# C6.0.1

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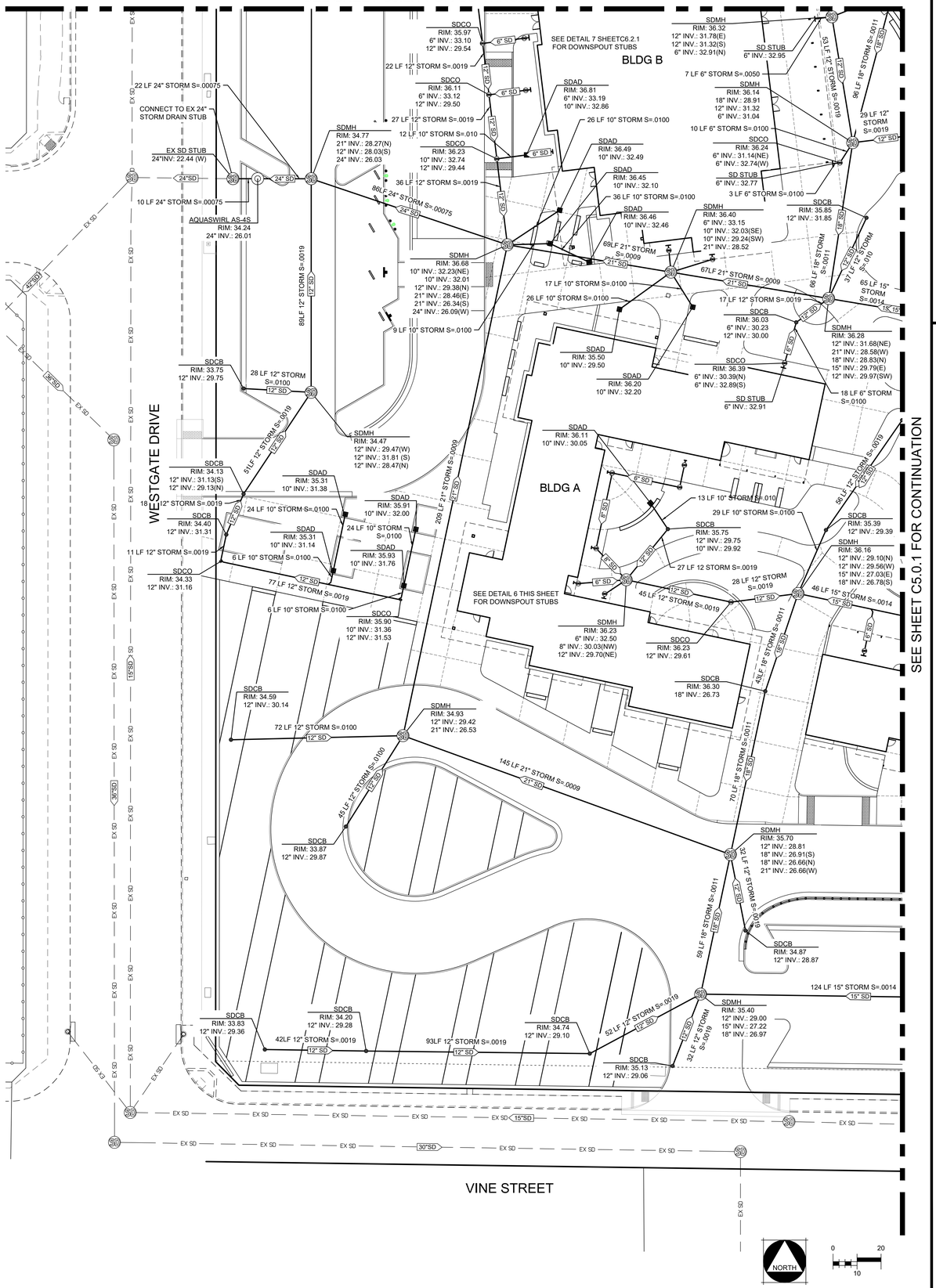
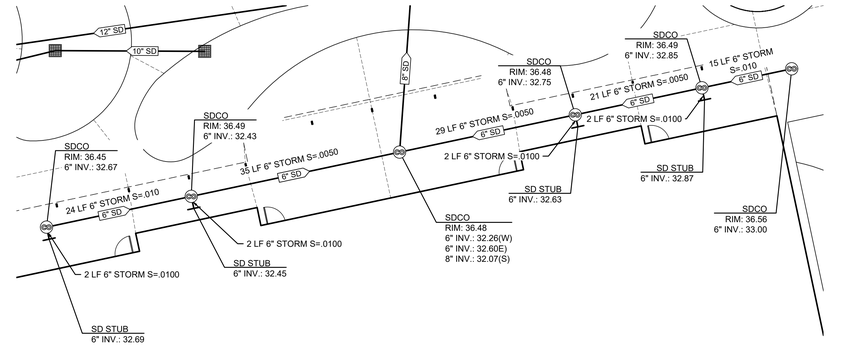
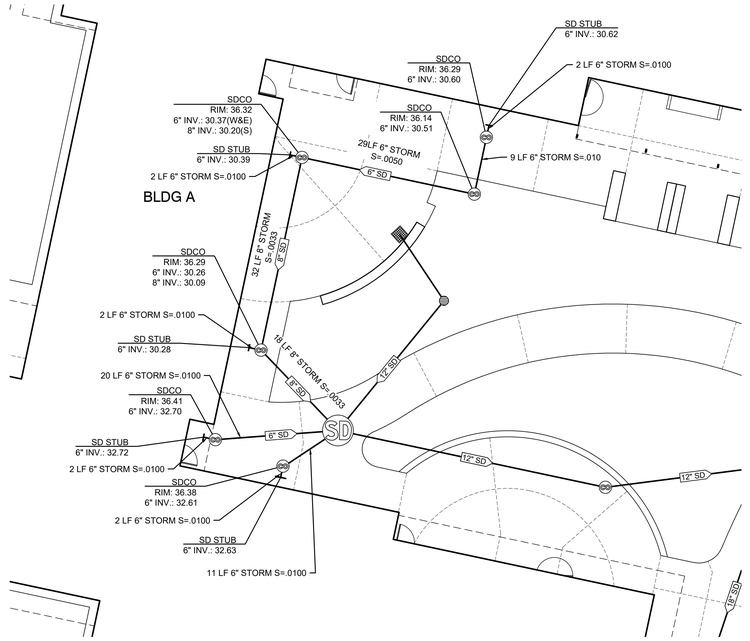



5 BUILDING E1 STORM DRAIN

SCALE: 1" = 10'




6 BUILDING A STORM DRAIN

SCALE: 1" = 10'

STORM DRAIN NOTES:

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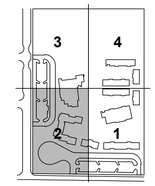


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**2801 W VINE STREET**
**LODI, CA 95242**

PROJECT:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1**

SHEET NAME:
**STORM DRAIN PLAN SW**

**DSA SUBMITTAL**

DATE: **2025.12.09**
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SHEET:

# C6.1.1

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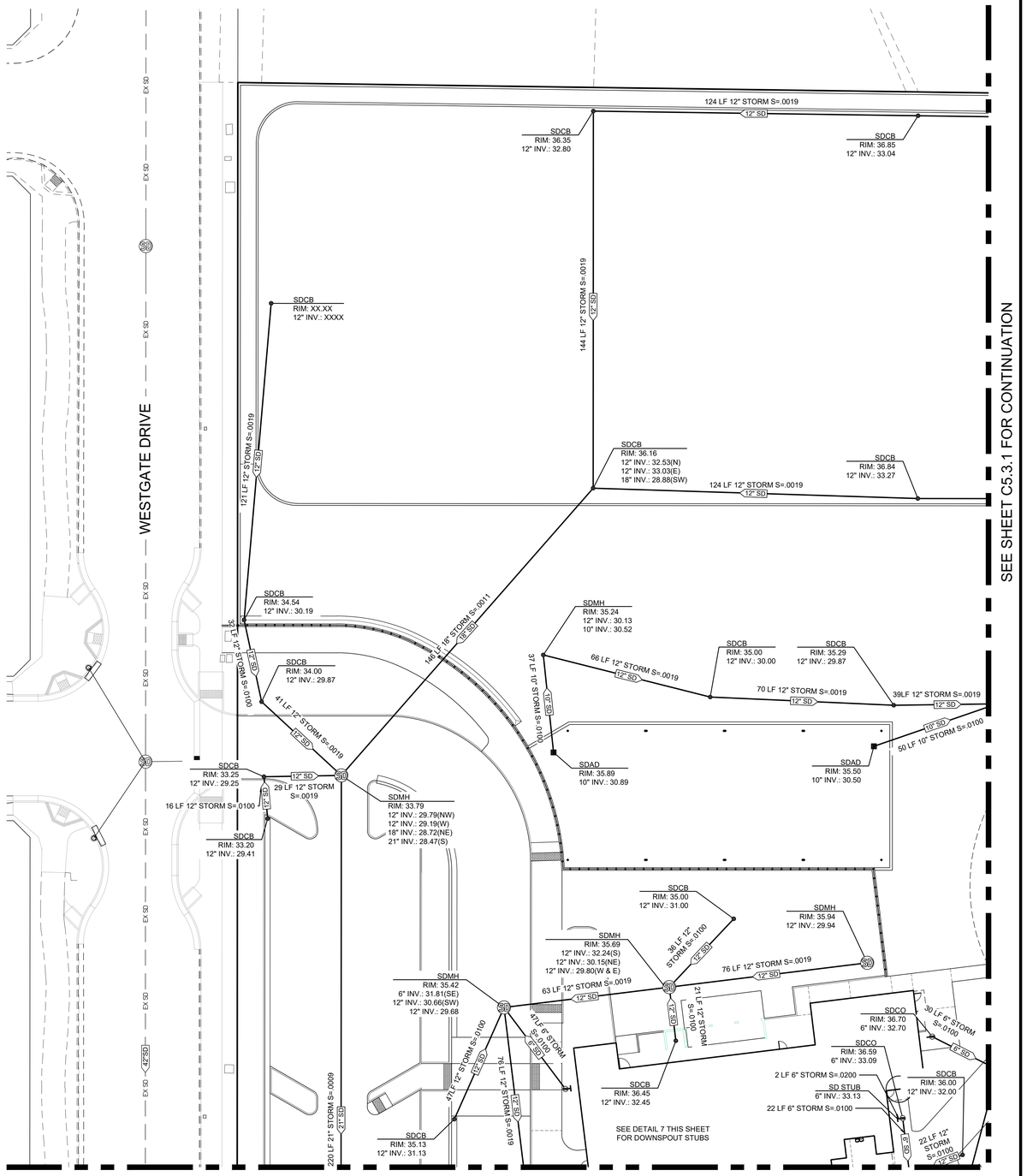


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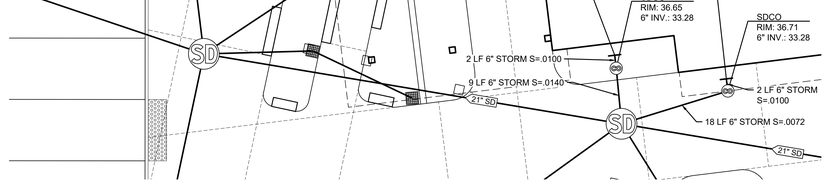


BLDG B

7 BUILDING B STORM DRAIN

SCALE: 1" = 10'

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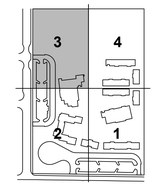


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**LODI, CA 95242**

PROJECT:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1**

SHEET NAME:
**STORM DRAIN PLAN NW**

**DSA SUBMITTAL**

DATE: **2025.12.09** | CLIENT PROJ NO:

SHEET:

# C6.2.1

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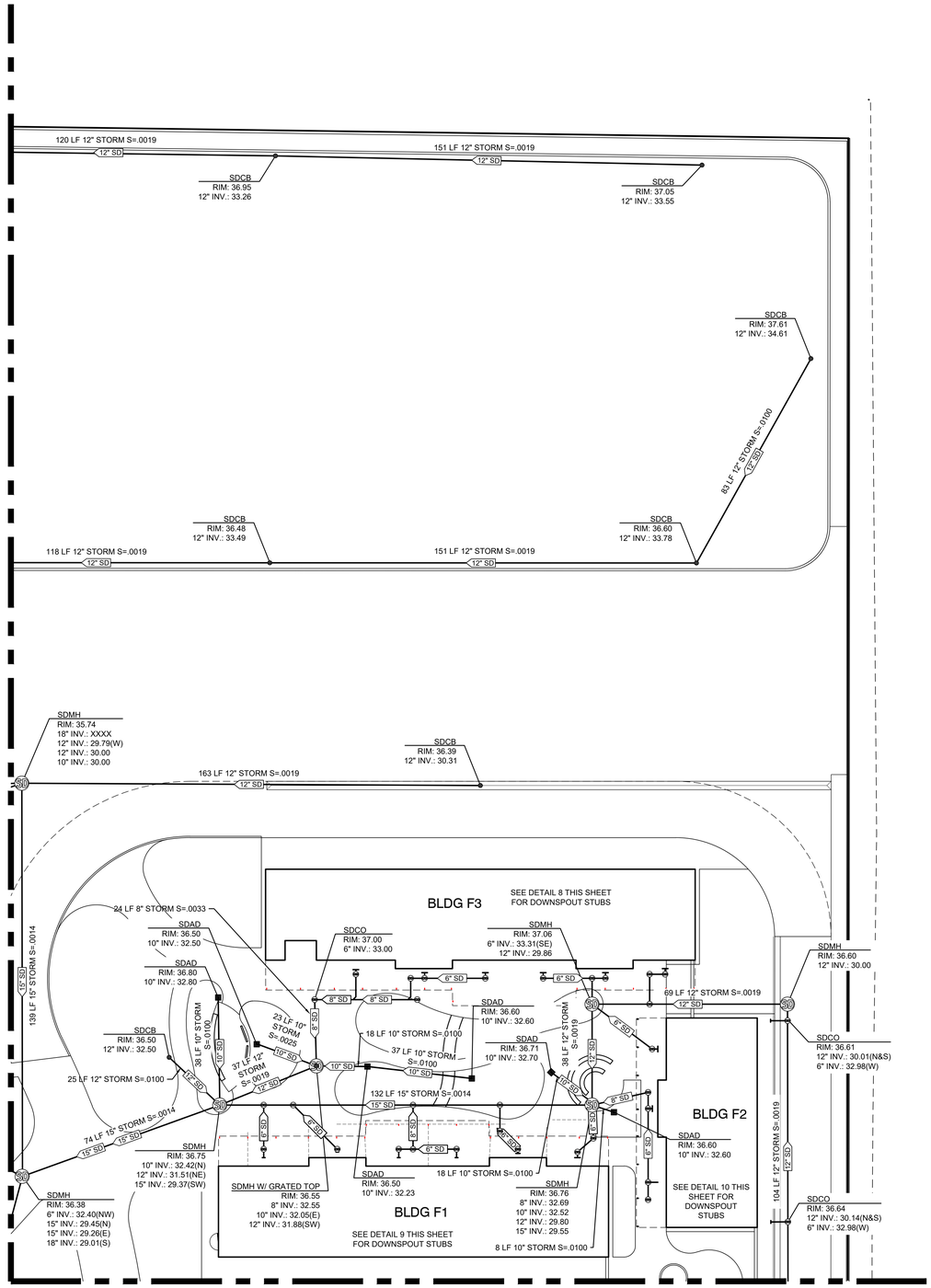
THE LINE BROWN ABOVE IS EXACTLY 3" LONG ON ORIGINAL PLANS SHEETS ORIGINAL PAGE SIZE

SEE SHEET C5.2.1 FOR CONTINUATION



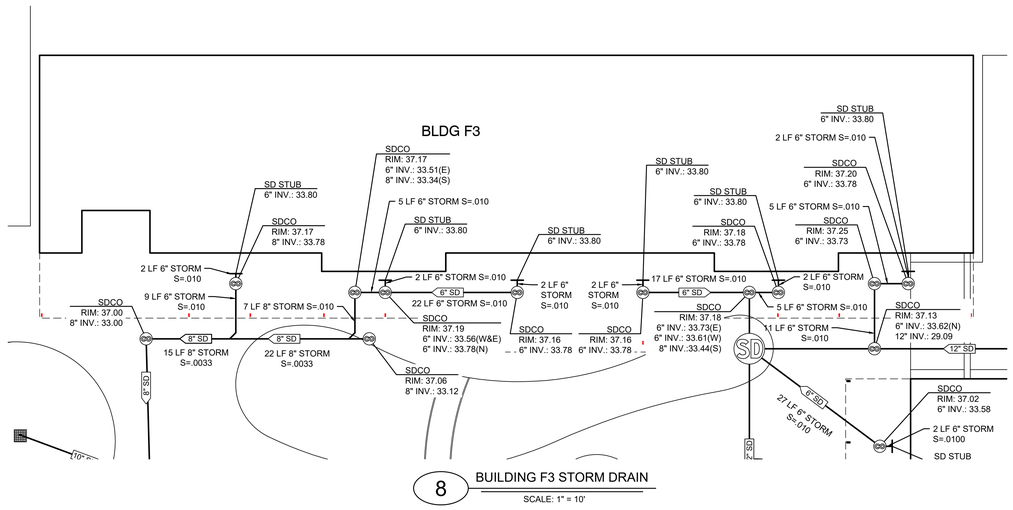

SEE SHEET C5.0.1 FOR CONTINUATION

FOR EXISTING BASIN IMPROVEMENTS SEE OFFSITE IMPROVEMENT PLANS PER SEPERATE PERMIT

STORM DRAIN NOTES:

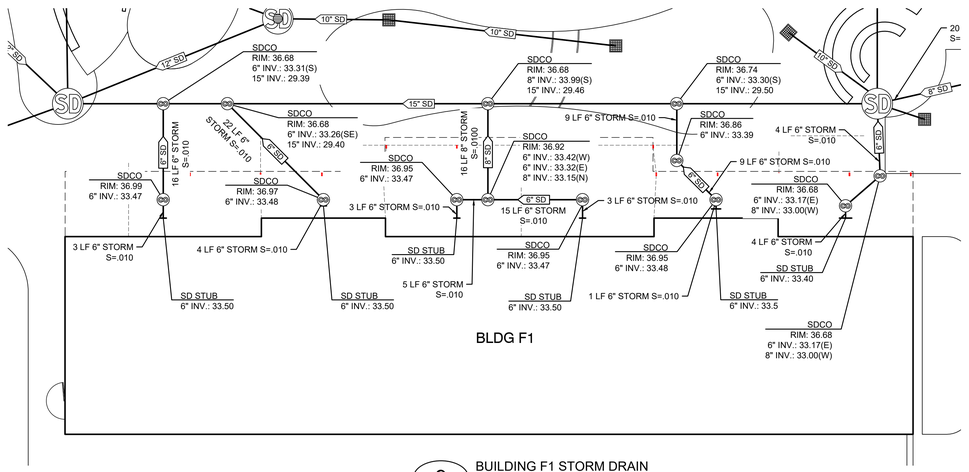
1. ALL EXISTING UTILITIES WERE PLOTTED FROM RECORD INFORMATION AND FIELD TOPOGRAPHY. ACTUAL LOCATIONS MAY VARY AND ADDITIONAL CROSSINGS MAY EXIST IN THE FIELD. IT IS IMPERATIVE THAT "U.S.A" LOCATING SERVICES, LOCATE AND MARK UTILITIES PRIOR TO THE START OF EXCAVATION.
2. THE CONTRACTOR SHALL USE EXTREME 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

NORTH 0 10 20



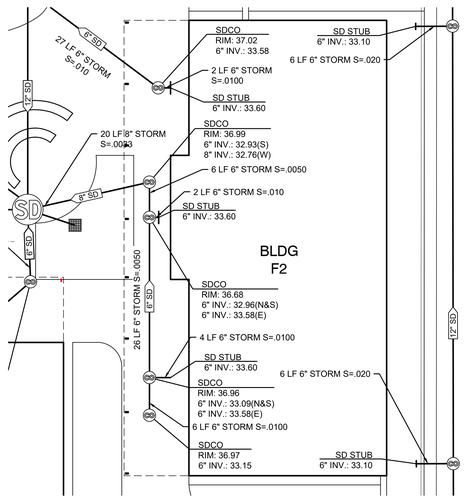

8 BUILDING F3 STORM DRAIN

SCALE: 1" = 10'




9 BUILDING F1 STORM DRAIN

SCALE: 1" = 10'




10 BUILDING F2 STORM DRAIN

SCALE: 1" = 10'

NORTH 0 5 10

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AGENCY APPROVAL:

LODI USD

HMC Architects
DESIGN FOR GOOD
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KEYNOTES

NOTES

REGISTERED PROFESSIONAL ENGINEER MARSHALL T. SMITH No. C047491 CIVIL STATE OF CALIFORNIA

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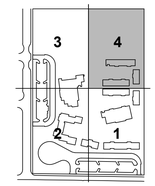
KEY PLAN




FACILITY:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL**
**2801 W VINE STREET**
**LODI, CA 95242**

PROJECT:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1**

SHEET NAME:
**STORM DRAIN PLAN NE**

**DSA SUBMITTAL**

DATE: **2025.12.09** | CLIENT PROJ NO:

SHEET:

# C6.3.1

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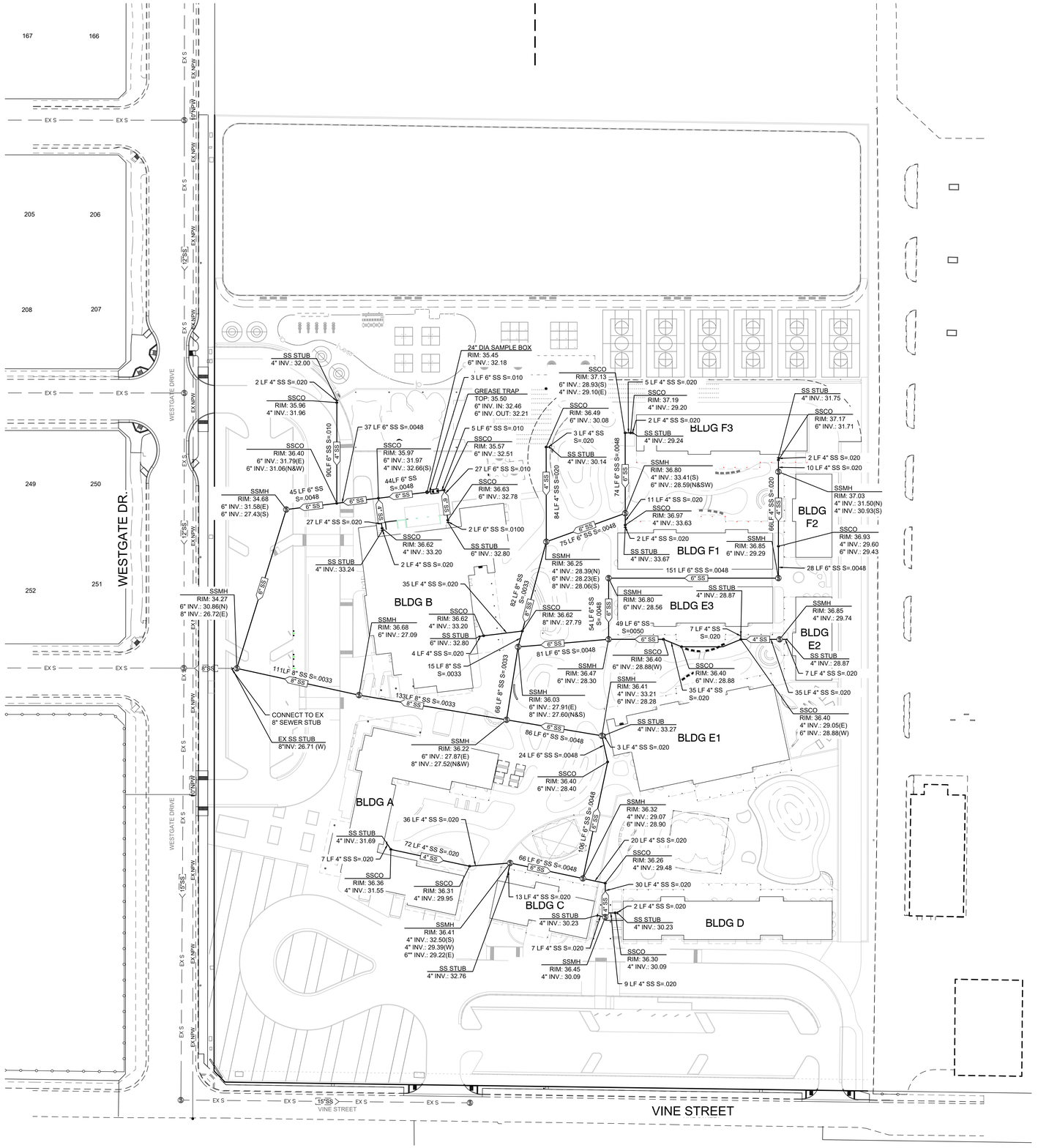
WESTGATE DR.
WESTGATE DRIVE
VINE STREET
167
166
205
206
208
207
249
250
252
251
BLDG A
BLDG B
BLDG C
BLDG D
BLDG E1
BLDG E2
BLDG E3
BLDG F1
BLDG F2
BLDG F3
SS STUB 4" INV.: 32.00
2 LF 4" SS S=.020
SSCO RIM: 35.96 4" INV.: 31.96
SSCO RIM: 36.40 6" INV.: 31.79(E) 6" INV.: 31.06(N&W)
SSMH RIM: 34.68 6" INV.: 31.58(E) 6" INV.: 27.43(S)
SSMH RIM: 34.27 6" INV.: 30.86(N) 8" INV.: 26.72(E)
CONNECT TO EX 8" SEWER STUB
EX SS STUB 8"INV: 26.71 (W)
24" DIA SAMPLE BOX RIM: 35.45 6" INV.: 32.18
3 LF 6" SS S=.010
GREASE TRAP TOP: 35.50 6" INV. IN: 32.46 6" INV. OUT: 32.21
5 LF 6" SS S=.010
SSCO RIM: 35.57 6" INV.: 32.51
27 LF 6" SS S=.010
SSCO RIM: 36.63 6" INV.: 32.78
2 LF 6" SS S=.0100
SS STUB 6" INV.: 32.80
37 LF 6" SS S=.0048
SSCO RIM: 35.97 6" INV.: 31.97 4" INV.: 32.66(S)
90LF 6" SS S=.010
44LF 6" SS S=.0048
45 LF 6" SS S=.0048
27 LF 4" SS S=.020
SSCO RIM: 36.62 4" INV.: 33.20
SS STUB 4" INV.: 33.24
2 LF 4" SS S=.020
35 LF 4" SS S=.020
SSMH RIM: 36.68 6" INV.: 27.09
SS STUB 6" INV.: 32.80
4 LF 4" SS S=.020
15 LF 8" SS S=.0033
111LF 8" SS S=.0033
133LF 8" SS S=.0033
SSCO RIM: 36.62 8" INV.: 27.79
82 LF 6" SS S=.0033
66 LF 6" SS S=.0033
81 LF 6" SS S=.0048
SSMH RIM: 36.47 6" INV.: 28.30
SSMH RIM: 36.03 6" INV.: 27.91(E) 8" INV.: 27.60(N&S)
86 LF 6" SS S=.0048
SSMH RIM: 36.22 6" INV.: 27.87(E) 8" INV.: 27.52(N&W)
24 LF 6" SS S=.0048
SSCO RIM: 36.40 6" INV.: 28.40
SSCO RIM: 37.13 6" INV.: 28.93(S) 4" INV.: 29.10(E)
SSCO RIM: 36.49 6" INV.: 30.08
3 LF 4" SS S=.020
SS STUB 4" INV.: 30.14
84 LF 4" SS S=.020
54 LF 6" SS S=.0048
49 LF 6" SS S=.0050
SSMH RIM: 36.25 4" INV.: 28.39(N) 6" INV.: 28.23(E) 8" INV.: 28.06(S)
SSMH RIM: 36.80 6" INV.: 28.56
SSMH RIM: 36.41 4" INV.: 33.21 6" INV.: 28.28
SSCO RIM: 36.40 6" INV.: 28.88(W)
3 LF 4" SS S=.020
SS STUB 4" INV.: 33.27
SSMH RIM: 36.32 4" INV.: 29.07 6" INV.: 28.90
106 LF 6" SS S=.0048
36 LF 4" SS S=.020
72 LF 4" SS S=.020
7 LF 4" SS S=.020
SS STUB 4" INV.: 31.69
SSCO RIM: 36.36 4" INV.: 31.55
SSCO RIM: 36.31 4" INV.: 29.95
66 LF 6" SS S=.0048
13 LF 4" SS S=.020
SSMH RIM: 36.41 4" INV.: 32.50(S) 4" INV.: 29.39(W) 6"" INV.: 29.22(E)
SS STUB 4" INV.: 32.76
SS STUB 4" INV.: 30.23
7 LF 4" SS S=.020
SSMH RIM: 36.45 4" INV.: 30.09
SSCO RIM: 36.30 4" INV.: 30.09
9 LF 4" SS S=.020
20 LF 4" SS S=.020
SSCO RIM: 36.26 4" INV.: 29.48
30 LF 4" SS S=.020
2 LF 4" SS S=.020
SS STUB 4" INV.: 30.23
5 LF 4" SS S=.020
SSCO RIM: 37.19 4" INV.: 29.20
2 LF 4" SS S=.020
SS STUB 4" INV.: 29.24
SSMH RIM: 36.80 4" INV.: 33.41(S) 6" INV.: 28.59(N&SW)
11 LF 4" SS S=.020
SSCO RIM: 36.97 4" INV.: 33.63
2 LF 4" SS S=.020
SSMH RIM: 36.85 6" INV.: 29.29
SS STUB 4" INV.: 33.67
151 LF 6" SS S=.0048
SS STUB 4" INV.: 28.87
7 LF 4" SS S=.020
SSCO RIM: 36.40 6" INV.: 28.88
35 LF 4" SS S=.020
SSCO RIM: 36.40 4" INV.: 29.05(E) 6" INV.: 28.88(W)
SS STUB 4" INV.: 31.75
SSCO RIM: 37.17 6" INV.: 31.71
2 LF 4" SS S=.020
10 LF 4" SS S=.020
SSMH RIM: 37.03 4" INV.: 31.50(N) 4" INV.: 30.93(S)
66LF 4" SS S=.020
SSCO RIM: 36.93 4" INV.: 29.60 6" INV.: 29.43
28 LF 6" SS S=.0048
SSMH RIM: 36.85 4" INV.: 29.74
SS STUB 4" INV.: 28.87
7 LF 4" SS S=.020
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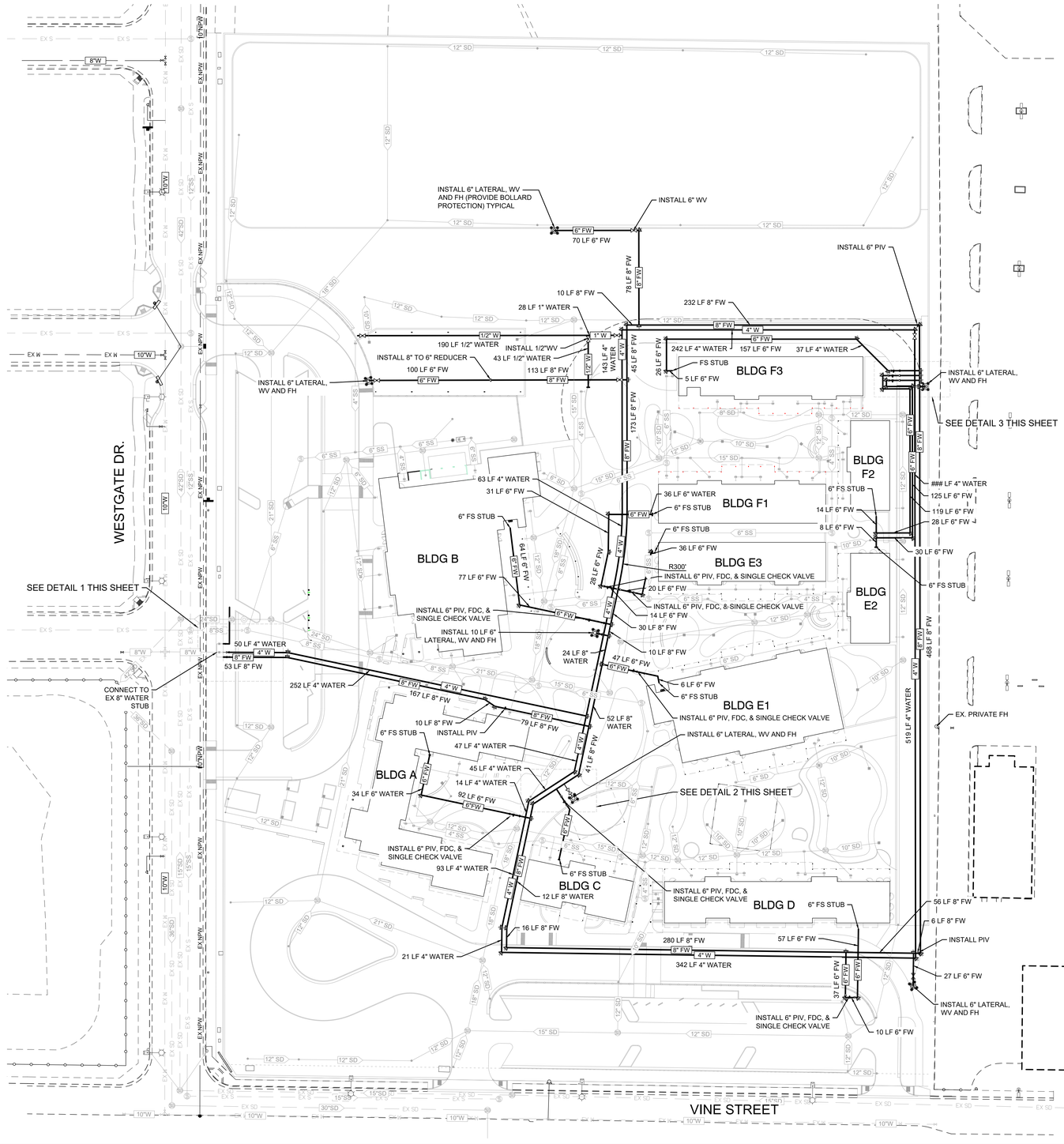


UTILITY NOTES:

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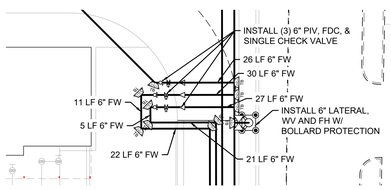
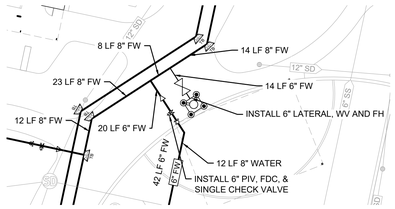
2. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN EXPOSING EXISTING UTILITY CROSSINGS AND SERVICES.
3. ANY DAMAGE TO EXISTING UTILITIES WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
4. GAS LINE SHOWN ON THIS DRAWING FOR UTILITY COORDINATION ONLY. DESIGN, MATERIALS AND SPECIFICATIONS BY OTHER. SEE PLUMBING SITE PLAN.
5. SEE THRUST BLOCK SCHEDULE SHEET C2.1.1.
6. ALL FIRE PROTECTION WATER LINE MATERIALS SHALL BE APPROVED BY THE LOCAL FIRE MARSHAL PRIOR TO INSTALLATION.
7. SEE FDC, PIV, AND CHECK VALVE DETAILS SHEET C2.1.1.

NOTES FOR UNDERGROUND PIPING FOR PRIVATE HYDRANTS & SPRINKLERS

1. PRIOR TO INSTALLATION, ALL PLANS AND SPECIFICATIONS SHALL BE APPROVED BY DSA. REFER TO DSA IR A-25 FOR DESIGN, INSTALLATION AND MAINTENANCE GENERAL REQUIREMENTS.
2. INSPECTIONS ARE REQUIRED: 1) PRIOR TO POURING THRUST BLOCKS. 2) FOR HYDROSTATIC TESTING, AND 3) FOR FLUSH.
3. INSTALLATION, INSPECTION, AND TESTING SHALL CONFORM TO 2016 EDITIONS CFC, NFPA 13 AND NFPA 24.
4. PRIVATE FIRE HYDRANTS SHALL BE APPROVED WET BARREL STYLE WITH A MINIMUM OF ONE 2 1/2" AND ONE 4" OUTLET. THE 4" OUTLET SHALL FACE THE FIRE DEPARTMENT ACCESS ROAD. ALL OUTLETS SHALL BE PROVIDED WITH NATIONAL STANDARD THREADS (NST). NFPA 24, 7.1.1.2.
5. FIRE HYDRANT SUPPLY PIPING SHALL BE A MINIMUM OF SIX INCHES IN DIAMETER. THE CENTER OF THE HOSE OUTLET SHALL BE NOT LESS THAN 18" ABOVE FINAL GRADE OR, WHERE LOCATED IN A HOSE HOUSE, 12" ABOVE THE FLOOR. NFPA 24, 7.1.1 & 7.3.3.
6. FIRE HYDRANTS SHALL BE A MINIMUM OF 40 FEET FROM ALL STRUCTURES. NFPA 24, 7.2.3.
7. A KEYED GATE VALVE SHALL BE PROVIDED FOR EACH HYDRANT IN AN ACCESSIBLE LOCATION. VALVES SHALL NOT BE LOCATED IN PARKING STALLS. NFPA 24, 7.1.1.1.
8. ALL PIPING SHALL BE LISTED FOR USE IN FIRE PROTECTION SERVICE AND COMPLY WITH AWWA STANDARDS (CLASS 150 MINIMUM) CLASS 200 PIPE SHALL BE USED WHERE THE PRESSURE MAY EXCEED 150 PSI. NFPA 24, 10.1.1.
9. ALL BOLTED JOINTS SHALL BE CLEANED AND THOROUGHLY COATED WITH ASPHALT OR OTHER CORROSION RETARDING MATERIAL AFTER INSTALLATION. NFPA 24, 10.4.1.1.
10. BACKFILL SHALL BE WELL TAMPED LAYERS TO CONSIST OF 6" MINIMUM BED OF CLEAN FILL SAND OR PEA GRAVEL BELOW AND 12" ABOVE THE PIPE (TOTAL 18" MINIMUM). NFPA 24, 10.9.1. SEE SHEET C2.1.1 DETAIL 10 FOR TRENCH DETAIL.
11. FITTINGS SHALL BE OF AN APPROVED TYPE. NFPA 24, 10.2.1.
12. A MINIMUM OF 30" OF COVER, FROM FINISH GRADE TO THE TOP OF THE PIPE, SHALL BE PROVIDED. WHEN SURFACE LOADS ARE EXPECTED, A MINIMUM OF 36" COVER SHALL BE PROVIDED. NFPA 24, 10.4.2.2.2 &.3. SEE SHEET C2.1.1 DETAIL 10 FOR TRENCH DETAIL.
13. THRUST BLOCKS, OR OTHER APPROVED METHOD OF THRUST RESTRAINT, SHALL BE PROVIDED WHEREVER PIPE CHANGES DIRECTION. BACK-FILL BETWEEN THE JOINTS TO PREVENT MOVEMENT OF THE PIPE. PROVIDE DETAILS AND CALCULATIONS FOR SIZING THRUST BLOCKS BASE ON ACTUAL SOIL CONDITIONS. NFPA 24, 10.6.
14. A HYDROSTATIC TEST (200 PSI FOR TWO HOURS OR 50 PSI OVER MAXIMUM STATIC PRESSURE, WHICHEVER IS GREATER) SHALL BE PERFORMED. NFPA 24, 10.10.2.2.1.
15. THE SYSTEM SHALL BE THOROUGHLY FLUSHED BEFORE CONNECTION IS MADE TO OVERHEAD PIPING. FLOW SHALL BE THROUGH A MINIMUM OF 4" HOSE OF PIPE. NFPA 24, 10.10.2.1.
16. ALL CONTROL VALVES SHALL BE LOCKED IN THE OPEN POSITION. VALVES SHALL BE MONITORED IF THEY SERVE 6 OR MORE SPRINKLER HEADS. CBC/CFC 903.4.
17. ALL CONTROL VALVES SHALL BE LISTED INDICATING TYPE UNLESS A NON-INDICATING VALVE, SUCH AS AN UNDERGROUND GATE VALVE WITH APPROVED ROADWAY BOX COMPLETE WITH T-WRENCH, IS ACCEPTABLE TO AUTHORITY HAVING JURISDICTION (AHJ). NFPA 24, 6.1.1.
18. POST INDICATING VALVES (PIV) SHALL BE TESTED TO INSURE THAT THE "TARGETS" (OPEN, CLOSED) ARE CLEARLY IDENTIFIED WHEN VALVE IS OPENED AND CLOSED. NFPA 24, 10.10.1 & 14.1.
19. TESTS SHALL BE MADE BY THE INSTALLING CONTRACTOR IN THE PRESENCE OF THE (AHJ). PROVIDE A COMPLETED CONTRACTOR'S MATERIAL AND TEST CERTIFICATE FOR UNDERGROUND PIPING TO DSA. NFPA 24, 10.10.1 & 14.1, CFC 901.5 & 6.
20. ALL FIRE HYDRANTS SHALL HAVE A 3-FOOT CIRCUMFERENCE OF CLEAR SPACE AND AN 18 INCH CLEARANCE FROM THE CENTER OF THE 4½" DISCHARGE TO FINISHED GRADE LEVEL. CFC 507.5.5
21. THE POST INDICATOR VALVES (PIV) SHALL BE SET SO THAT THE TOP OF THE POST WILL BE 32" TO 40" ABOVE FINISHED GRADE. NFPA 24, 6.3.1.
22. ALL FIRE HYDRANTS SHALL BE INSTALLED WITH BREAK-OFF BOLTS AND/OR BREAK-OFF SPOOLS.
23. ALL MECHANICAL JOINTS ON FIRE SERVICE LINES AND FIRE SPRINKLER LATERALS SHALL BE CLEANED AND THOROUGHLY COATED WITH CORROSION RETARDING MATERIAL. NFPA 24, 10.4.1.1




3 WATER DETAIL
SCALE: 1" = 20'




2 WATER DETAIL
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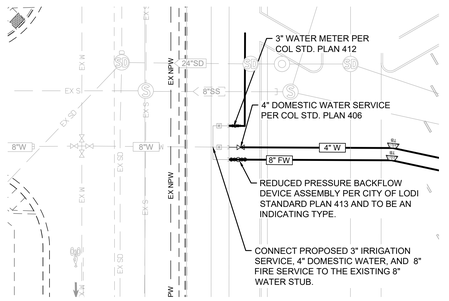


1 WATER DETAIL
SCALE: 1" = 20'

NORTH

0 40
20

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KEYNOTES

NOTES

REGISTERED PROFESSIONAL ENGINEER — MICHAEL T. SMITH — No. C84435 — CIVIL — STATE OF CALIFORNIA

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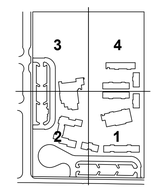
KEY PLAN




FACILITY:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL**
**2801 W VINE STREET**
**LODI, CA 95242**

PROJECT:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1**

SHEET NAME:
**WATER & COMPOSITE UTILITY PLAN**

**DSA SUBMITTAL**

DATE: **2025.12.09** | CLIENT PROJ NO:

SHEET:

# C8.0.1

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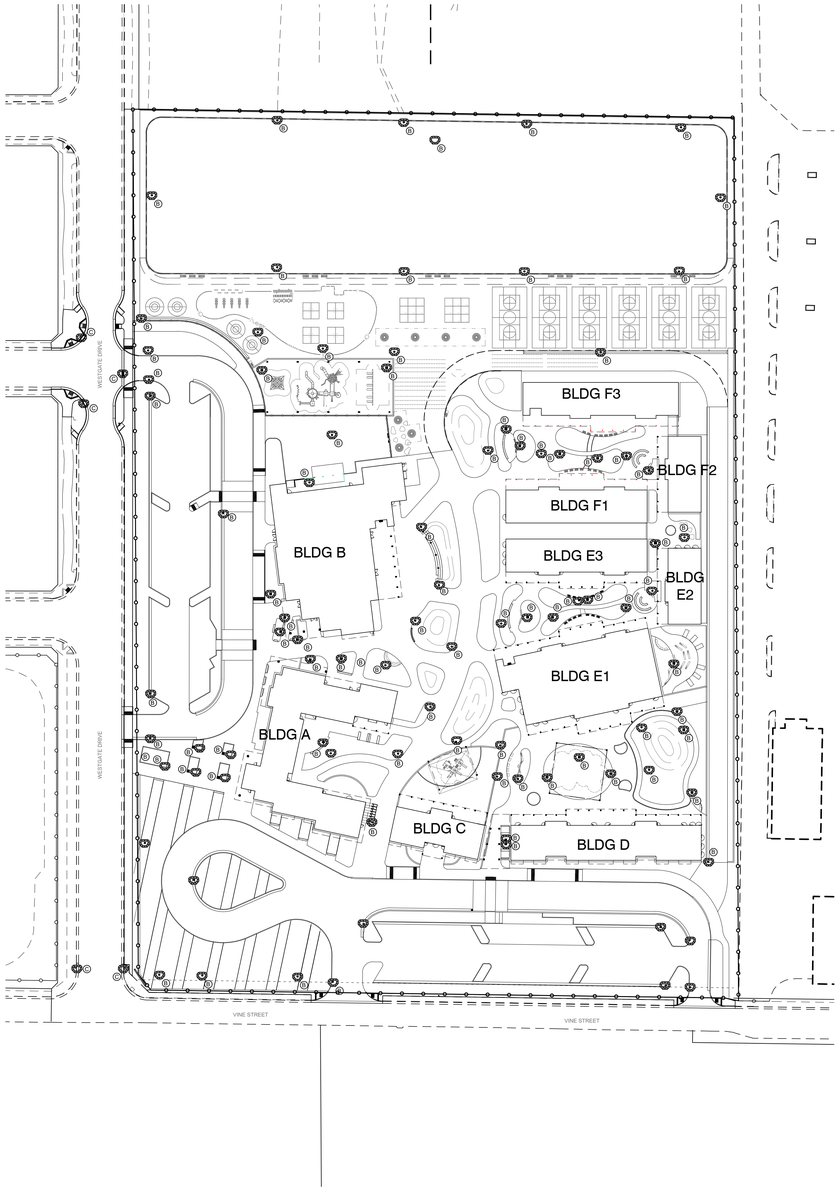
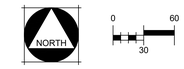


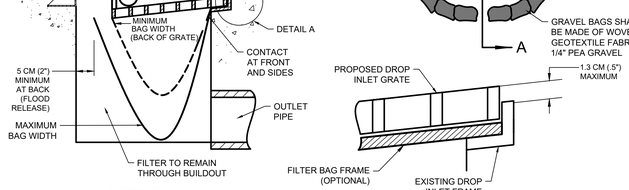




## LEGEND

| | |
|---|---|
| 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) |
| DESIGNATED ENTRANCE/OUTLET TIRE WASH (TC-3) | PROPOSED: DRAIN INLET SEDIMENT PROTECTION (SE-10, SEE DETAIL B) |
| DESIGNATED VEHICLE MAINTENANCE AREA (NS-8, NS-9, NS-10) | EXISTING: CURB INLET SEDIMENT PROTECTION (SE-10, SEE DETAIL C) |
| DESIGNATED CONCRETE WASHOUT AREA (WM-8) | GRAVEL BAGS |
| 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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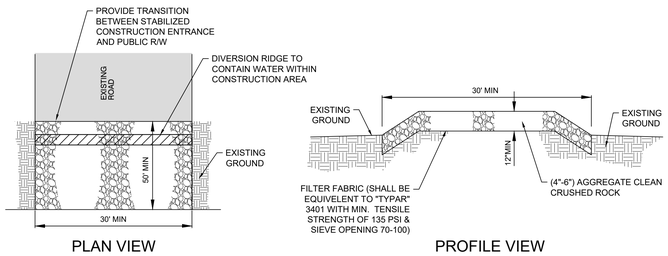
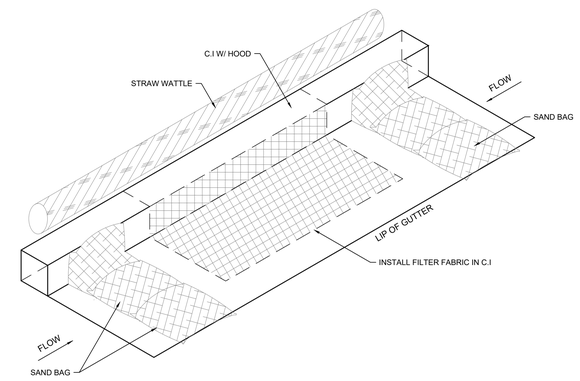



1 STABILIZED CONSTRUCTION ENTRANCE (TC-1)

NOT TO SCALE




C EXISTING CURB INLET FILTER DETAIL (SE-10)

NOT TO SCALE

## 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

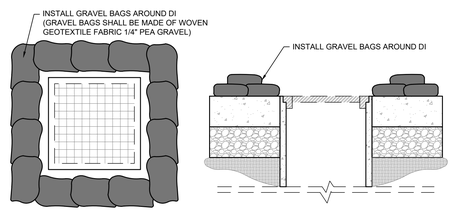
1. TEMPORARY CONCRETE WASHOUT FACILITIES SHALL BE LOCATED A MINIMUM OF 15 M (50 FT.) FROM STORM DRAIN INLETS, OPEN DRAINAGE FACILITIES, AND WATERCOURSES, UNLESS DETERMINED UNFEASIBLE BY THE ENGINEER. EACH FACILITY SHALL BE LOCATED AWAY FROM CONSTRUCTION TRAFFIC OR ACCESS AREAS TO PREVENT DISTURBANCE 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.




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

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916 368 7990 / www.hmcarchitects.com

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REGISTERED PROFESSIONAL ENGINEER — KENNETH T. SMITH — No. C077439 — CIVIL — STATE OF CALIFORNIA

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MANTECA, CA 95336
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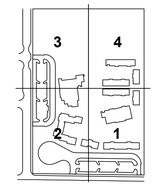
FAX : ( 209 ) 239 - 8839
www.mcreng.com

KEY PLAN




FACILITY:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL**
**2801 W VINE STREET**
**LODI, CA 95242**

PROJECT:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1**

SHEET NAME:
**EROSION & SEDIMENT CONTROL PLAN**

**DSA SUBMITTAL**

DATE: **2025.12.09**
CLIENT PROJ NO:

SHEET:

**C9.0.1**

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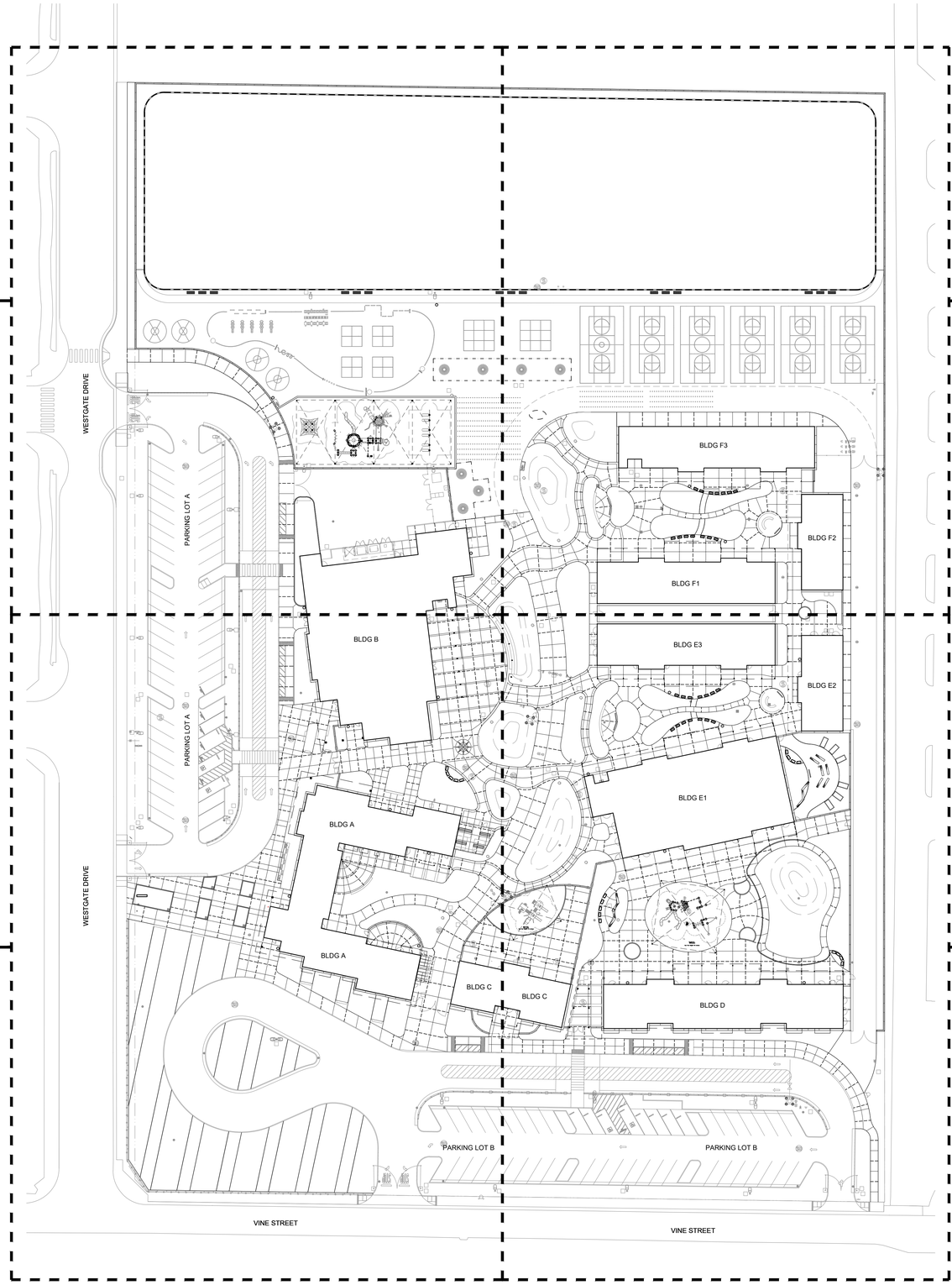


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SCALE: 1"= 40'-0"

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KEYNOTES

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916 369-3990

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CHRISTIAN HOLLIS MATTHEW
5453
12/03/26
7/31/27
STATE OF CALIFORNIA

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

PROJECT:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1**

SHEET NAME:
**OVERALL LANDSCAPE SITE PLAN**

**DSA SUBMITTAL**

DATE: **2025.12.09** | CLIENT PROJ NO:

SHEET:

# L0.0.1

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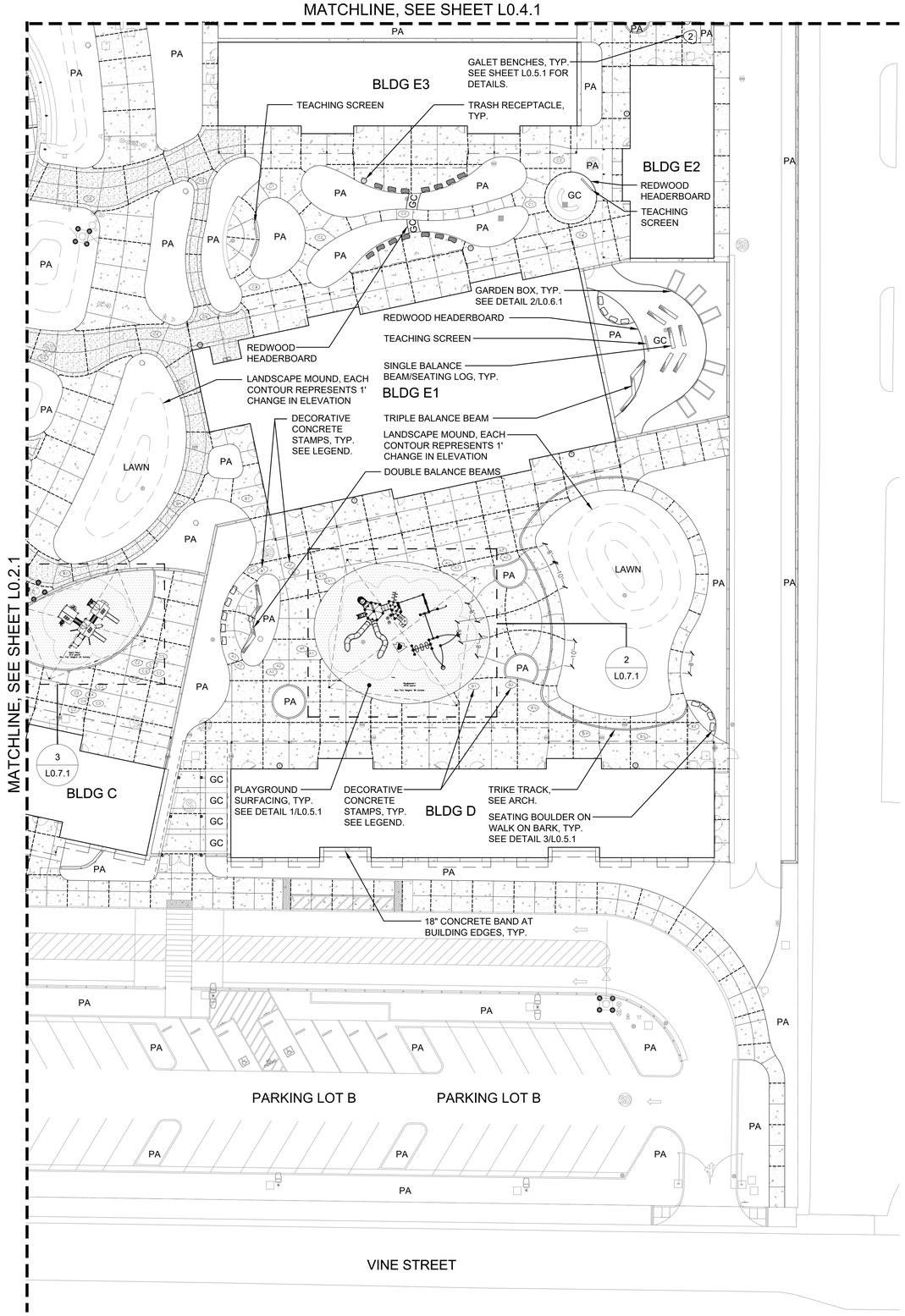


## KEY / SITE LEGEND

| KEY | |
|---|---|
| PA | DENOTES PLANTER AREA<br>SEE SHRUB PLANTING PLAN. |
| DG | DENOTES DECOMPOSED GRANITE<br>SEE SHRUB PLANTING PLAN. |
| DR | DENOTES DECORATIVE ROCK<br>SEE SHRUB PLANTING PLAN. |
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| | CONCRETE PAVEMENT<br>SEE CIVIL PLANS.<br>CONTROL JOINTS<br>EXPANSION JOINTS |
| | ACCENT PAVEMENT<br>COLOR: DAVIS COLOR, WILLOW GREEN #5376<br>FINISH: LIGHT SALT FINISH<br>SCORING PATTERN AS SHOWN |
| | PLAYGROUND SURFACING<br>MANUFACTURER: FORVERLAWN<br>PRODUCT: PLAYGROUND GRASS<br>SEE DETAIL 1/L0.5.1 |
| | PLAYGROUND STRUCTURES<br>1. 5-12 PLAY STRUCTURE, ROSS RECREATION (SEE CUTSHEETS)<br>2. KINDER PLAY STRUCTURE, ROSS RECREATION (SEE CUTSHEETS)<br>3. TK PLAY STRUCTURE, ROSS RECREATION (SEE CUTSHEETS)<br>MANUFACTURER: LANDSCAPE STRUCTURES |
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| | SEATING BOULDERS ON CONCRETE (33 TOTAL)<br>SEE DETAIL 2/L0.5.1 |
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| 1 2 3 | GALET BENCHES<br>MANUFACTURER: WASAU TILE<br>MODEL(S): GALET COLLECTION, (4) ZB.GL01, (3) ZB.GL.02, (3) ZB.GL.03<br>COLOR/FINISH: W33 MISTY GRAY/WEATHERSTONE<br>PLACEMENT: AS DIRECTED ON-SITE<br>FASTENING: NONE<br>SEE DETAILS 6,7, & 8/L0.5.1 |
| | TRIPLE BALANCE BEAMS (1 TOTAL)<br>MANUFACTURER: KOMPAN<br>MODEL#: NRO889<br>SIZE: 24'-8"L X 6"W X 1'-3"H<br>CONTRACTOR TO INSTALL PER MANUFACTURERS INSTRUCTIONS. |
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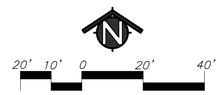
| | TEACHING SCREEN (7 TOTAL)<br>COLOR: COORDINATE WITH OWNER<br>FINISH: POWDERCOAT<br>SEE DETAIL 1/L0.6.1 |
| | GARDEN BOX (6 TOTAL)<br>SEE DETAIL 2/L0.6.1 |
| | BIKE RACKS<br>MANUFACTURER: WILLYGOAT<br>PRODUCT: TRADITIONAL DOUBLE SIDED BICYCLE RACK<br>SKU: 5905SM<br>16-BIKE CAPACITY (3 TOTAL)<br>20-BIKE CAPACITY (1 TOTAL)<br>4' CLEARANCE<br>CONTRACTOR TO INSTALL PER MANUFACTURERS INSTRUCTIONS. |
| | BIKE LOCKERS (8 TOTAL)<br>MANUFACTURER: AMERICAN BICYCLE SECURITY COMPANY<br>PRODUCT: BIKE-SHELL MODEL 301<br>SIZE: 74"L X 30"W X 48"H<br>5' CLEARANCE FOR DOOR<br>CONTRACTOR TO INSTALL PER MANUFACTURERS INSTRUCTIONS. |
| | TRASH RECEPTACLE (22 TOTAL)<br>MANUFACTURER: BELSON OUTDOORS<br>PRODUCT: MODERN TWO-WAY DISPOSAL, 53 GALLON ROUND RECEPTACLE<br>MODEL#: TF1130<br>SIZE: 26" DIA. X 49"H<br>FINISH/COLOR: WEATHERSTONE/GRAY<br>CONTRACTOR TO INSTALL PER MANUFACTURERS INSTRUCTIONS. |
| | CONCRETE MOWSTRIP<br>SEE DETAIL 9/L0.5.1 |
| | REDWOOD HEADERBOARD<br>SEE DETAIL 10/L0.5.1 |
| | BENCHES (15 TOTAL)<br>MANUFACTURER: ANOVA SITE FURNISHINGS<br>PRODUCT: INFINITY POWDERCOATED LINEAR BENCH, RECYCLED PLASTIC<br>MODEL#: PINF24L6R<br>SIZE: 72"L X 24"W X 19"H<br>CONTRACTOR TO INSTALL PER MANUFACTURERS INSTRUCTIONS. |
| | DRINKING FOUNTAIN (2 TOTAL)<br>MANUFACTURER: ELKAY<br>PRODUCT: OUTDOOR EZH2O LOWER BOTTLE FILLING STATION TRI-LEVEL PEDESTAL<br>MODEL#: LK4430BF1L<br>COLOR: EVERGREEN<br>CONTRACTOR TO INSTALL PER MANUFACTURERS INSTRUCTIONS. |
| | SUN DIAL<br>SEE DETAIL 3/L0.6.1 |
| | SILVA CELL SYSTEM<br>MANUFACTURER: DEEPROOT<br>PRODUCT: 2X SYSTEM HEIGHT<br>INSTALL PER MANUFACTURERS INSTRUCTIONS.<br>SEE DETAIL 4/L0.6.1 |
| | DECORATIVE CONCRETE STAMP - ANIMAL MOTIFS<br>MANUFACTURER: CALICO CONSTRUCTION PRODUCTS<br>FINISH: STRAIGHT |
| A1 A2 | PRODUCT A1: DEER FOOTPRINTS / #AT300<br>PRODUCT A2: DEER / #SA1400HE |
| B1 B2 | PRODUCT B1: BEAR FOOTPRINTS / #AT400<br>PRODUCT B2: BEAR / #SA1300 |
| C1 C2 C3 C4 | PRODUCT C1: FISH FACING LEFT / #SA3002<br>PRODUCT C2: DOLPHIN DOUBLE / NA<br>PRODUCT C3: SEA TURTLE, OVERHEAD #SA3202<br>PRODUCT C4: FISH FACING RIGHT / #SA3001<br>STAMPED IMPRESSIONS IN CONCRETE ONLY. PROVIDE FLUSH FINISH WITH SURROUNDING PAVEMENT. NO RAISED EDGES OR CHANGES IN LEVEL. COMPLY WITH CBC AND ADA ACCESSIBILITY REQUIREMENTS.<br>INSTALL PER MANUFACTURERS INSTRUCTIONS. |
| | LANDSCAPE MOUND<br>EACH CONTOUR REPRESENTS 1' IN ELEVATION.<br>MOUND SHALL HAVE A SMOOTH GRADE AND GENTLE TRANSITIONS AT THE HIGH POINT AND BASE OF MOUND. |

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**1305 E VINE ST,**
**LODI, CA 95240**

PROJECT:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1**

SHEET NAME:
**LANDSCAPE SITE PLAN**

**DSA SUBMITTAL**

DATE: **11/14/2025**
**2025.12.09**
SHEET

CLIENT PROJ NO:

**L0.1.1**

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| KEY | SITE LEGEND |
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| | TRIPLE BALANCE BEAMS (1 TOTAL)<br>MANUFACTURER: KOMPAN<br>MODEL#: NRO889<br>SIZE: 24'-8"L X 6"W X 1'-3"H<br>CONTRACTOR TO INSTALL PER MANUFACTURERS INSTRUCTIONS. |
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| | GARDEN BOX (6 TOTAL)<br>SEE DETAIL 2/L0.6.1 |
| | BIKE RACKS<br>MANUFACTURER: WILLYGOAT<br>PRODUCT: TRADITIONAL DOUBLE SIDED BICYCLE RACK<br>SKU: 5905SM<br>16-BIKE CAPACITY (3 TOTAL)<br>20-BIKE CAPACITY (1 TOTAL)<br>4' CLEARANCE<br>CONTRACTOR TO INSTALL PER MANUFACTURERS INSTRUCTIONS. |
| | BIKE LOCKERS (8 TOTAL)<br>MANUFACTURER: AMERICAN BICYCLE SECURITY COMPANY<br>PRODUCT: BIKE-SHELL MODEL 301<br>SIZE: 74"L X 30"W X 48"H<br>5' CLEARANCE FOR DOOR<br>CONTRACTOR TO INSTALL PER MANUFACTURERS INSTRUCTIONS. |
| | TRASH RECEPTACLE (22 TOTAL)<br>MANUFACTURER: BELSON OUTDOORS<br>PRODUCT: MODERN TWO-WAY DISPOSAL, 53 GALLON ROUND RECEPTACLE<br>MODEL#: TF1130<br>SIZE: 26" DIA. X 49"H<br>FINISH/COLOR: WEATHERSTONE/GRAY<br>CONTRACTOR TO INSTALL PER MANUFACTURERS INSTRUCTIONS. |
| | CONCRETE MOWSTRIP<br>SEE DETAIL 9/L0.5.1 |
| | REDWOOD HEADERBOARD<br>SEE DETAIL 10/L0.5.1 |
| | BENCHES (15 TOTAL)<br>MANUFACTURER: ANOVA SITE FURNISHINGS<br>PRODUCT: INFINITY POWDERCOATED LINEAR BENCH, RECYCLED PLASTIC<br>MODEL#: PINF24L6R<br>SIZE: 72"L X 24"W X 19"H<br>CONTRACTOR TO INSTALL PER MANUFACTURERS INSTRUCTIONS. |
| | DRINKING FOUNTAIN (2 TOTAL)<br>MANUFACTURER: ELKAY<br>PRODUCT: OUTDOOR EZH2O LOWER BOTTLE FILLING STATION TRI-LEVEL PEDESTAL<br>MODEL#: LK4430BF1L<br>COLOR: EVERGREEN<br>CONTRACTOR TO INSTALL PER MANUFACTURERS INSTRUCTIONS. |
| | SUN DIAL<br>SEE DETAIL 3/L0.6.1 |
| | SILVA CELL SYSTEM<br>MANUFACTURER: DEEPROOT<br>PRODUCT: 2X SYSTEM HEIGHT<br>INSTALL PER MANUFACTURERS INSTRUCTIONS.<br>SEE DETAIL 4/L0.6.1 |
| | DECORATIVE CONCRETE STAMP - ANIMAL MOTIFS<br>MANUFACTURER: CALICO CONSTRUCTION PRODUCTS<br>FINISH: STRAIGHT |
| A1<br>A2 | PRODUCT A1: DEER FOOTPRINTS / #AT300<br>PRODUCT A2: DEER / #SA1400HE |
| B1<br>B2 | PRODUCT B1: BEAR FOOTPRINTS / #AT400<br>PRODUCT B2: BEAR / #SA1300 |
| C1<br>C2<br>C3<br>C4 | PRODUCT C1: FISH FACING LEFT / #SA3002<br>PRODUCT C2: DOLPHIN DOUBLE / NA<br>PRODUCT C3: SEA TURTLE, OVERHEAD #SA3202<br>PRODUCT C4: FISH FACING RIGHT / #SA3001<br>STAMPED IMPRESSIONS IN CONCRETE ONLY. PROVIDE FLUSH FINISH WITH SURROUNDING PAVEMENT. NO RAISED EDGES OR CHANGES IN LEVEL. COMPLY WITH CBC AND ADA ACCESSIBILITY REQUIREMENTS. INSTALL PER MANUFACTURERS INSTRUCTIONS. |
| | LANDSCAPE MOUND<br>EACH CONTOUR REPRESENTS 1' IN ELEVATION.<br>MOUND SHALL HAVE A SMOOTH GRADE AND GENTLE TRANSITIONS AT THE HIGH POINT AND BASE OF MOUND. |

20' 10' 0 20' 40'

SCALE: 1"= 20'-0"

**AGENCY APPROVAL:**

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**KEYNOTES**

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25-31

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2707 K Street, Suite 201
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LICENSED LANDSCAPE ARCHITECT — MARTIN WOLLS — 5453 — 12/03/26 — 7/31/27 — STATE OF CALIFORNIA

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**

**DSA SUBMITTAL**

DATE: **2025.12.09** | CLIENT PROJ NO:

SHEET:

# L0.2.1

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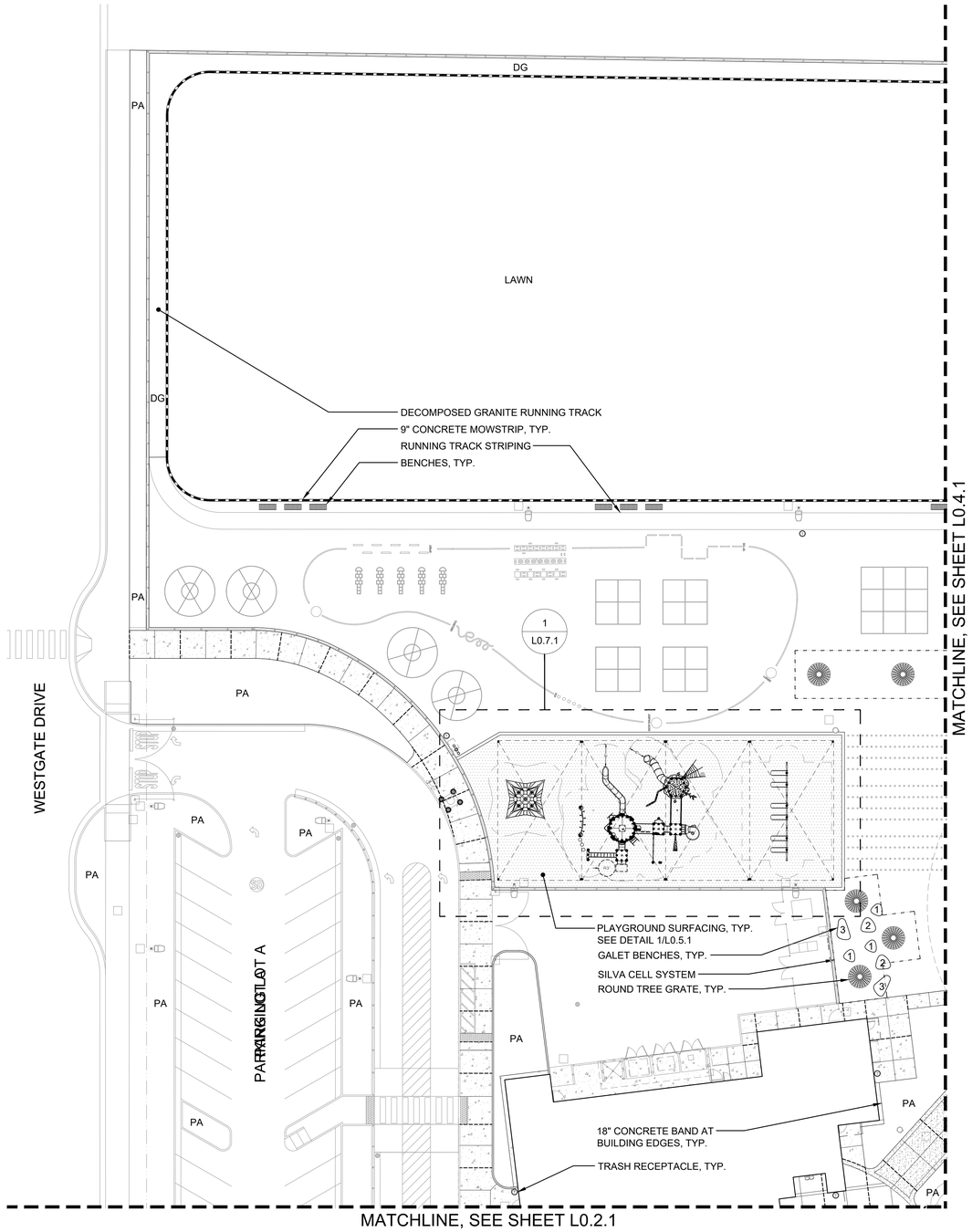


| KEY | SITE LEGEND |
|---|---|
| PA | DENOTES PLANTER AREA<br>SEE SHRUB PLANTING PLAN. |
| DG | DENOTES DECOMPOSED GRANITE<br>SEE SHRUB PLANTING PLAN. |
| DR | DENOTES DECORATIVE ROCK<br>SEE SHRUB PLANTING PLAN. |
| GC | DENOTES GRANITE CRETE<br>SEE SHRUB PLANTING PLAN. |
| | CONCRETE PAVEMENT<br>SEE CIVIL PLANS.<br>CONTROL JOINTS<br>EXPANSION JOINTS |
| | ACCENT PAVEMENT<br>COLOR: DAVIS COLOR, WILLOW GREEN #5376<br>FINISH: LIGHT SALT FINISH<br>SCORING PATTERN AS SHOWN |
| | PLAYGROUND SURFACING<br>MANUFACTURER: FOREVERLAWN<br>PRODUCT: PLAYGROUND GRASS<br>SEE DETAIL 1/L0.5.1 |
| | PLAYGROUND STRUCTURES<br>1. 5-12 PLAY STRUCTURE, ROSS RECREATION (SEE CUTSHEETS)<br>2. KINDER PLAY STRUCTURE, ROSS RECREATION (SEE CUTSHEETS)<br>3. TK PLAY STRUCTURE, ROSS RECREATION (SEE CUTSHEETS)<br>MANUFACTURER: LANDSCAPE STRUCTURES |
| | SEATING BOULDERS (13 TOTAL)<br>SEE DETAIL 3/L0.5.1 |
| | SEATING BOULDERS ON CONCRETE (33 TOTAL)<br>SEE DETAIL 2/L0.5.1 |
| | ROUND TREE GRATE AND STAKE SYSTEM (7 TOTAL)<br>MANUFACTURER: IRONSMITH<br>PRODUCT: OLYMPIAN CAST IRON ROUND GRATE WITH BAKED ON OIL FINISH<br>MODEL#: 9615<br>SIZE: 96" DIA.<br>SEE DETAIL 4/L0.5.1<br>STAKE SYSTEM: GRATE STAKE, 6 FT LONG FOR 24" BOX SIZE TREES<br>MANUFACTURER: J.R. PARTNERS<br>PRODUCT: BLACK POWDER COAT<br>INSTALL PER MANUFACTURERS INSTRUCTIONS<br>SEE DETAIL 5/L0.5.1 |
| 1 2 3 | GALET BENCHES<br>MANUFACTURER: WASAU TILE<br>MODEL(S): GALET COLLECTION, (4) ZB.GL01, (3) ZB.GL.02, (3) ZB.GL.03<br>COLOR/FINISH: W33 MISTY GRAY/WEATHERSTONE<br>PLACEMENT: AS DIRECTED ON-SITE<br>FASTENING: NONE<br>SEE DETAILS &.7, & &/L0.5.1 |
| | TRIPLE BALANCE BEAMS (1 TOTAL)<br>MANUFACTURER: KOMPAN<br>MODEL#: NRO889<br>SIZE: 24'-8"L X 6"W X 1'-3"H<br>CONTRACTOR TO INSTALL PER MANUFACTURERS INSTRUCTIONS. |
| | DOUBLE BALANCE BEAM (2 TOTAL)<br>MANUFACTURER: KOMPAN<br>MODEL#: NRO888<br>SIZE: 16'-1"L X 6"W X 1'-3"H<br>CONTRACTOR TO INSTALL PER MANUFACTURERS INSTRUCTIONS. |
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| | REDWOOD HEADERBOARD<br>SEE DETAIL 10/L0.5.1 |
| | BENCHES (15 TOTAL)<br>MANUFACTURER: ANOVA SITE FURNISHINGS<br>PRODUCT: INFINITY POWDERCOATED LINEAR BENCH, RECYCLED PLASTIC<br>MODEL#: PINF24L6R<br>SIZE: 72"L X 24"W X 19"H<br>CONTRACTOR TO INSTALL PER MANUFACTURERS INSTRUCTIONS. |
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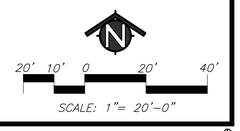


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LICENSED LANDSCAPE ARCHITECT — CHRISTOPHER HOLLIS MILLER — 5453 — 12/03/26 — 7/31/27 — STATE OF CALIFORNIA

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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:
**LANDSCAPE SITE PLAN**

**DSA SUBMITTAL**

DATE: **2025.12.09** | CLIENT PROJ NO:

SHEET:

# L0.3.1

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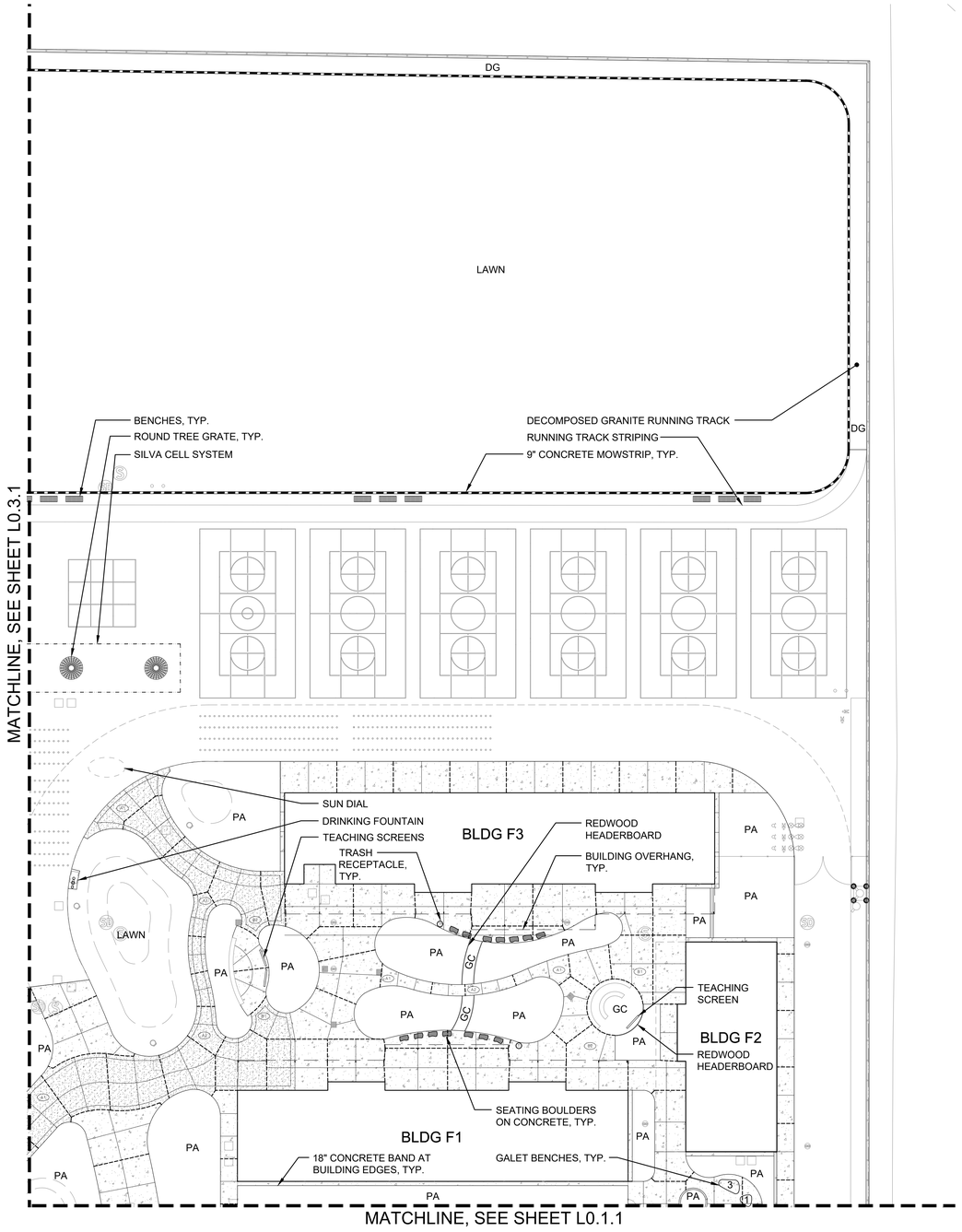


## KEY / SITE LEGEND

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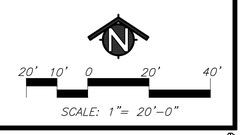


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## KEYNOTES

## NOTES

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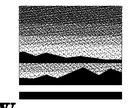

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DATE: **2025.12.09** | CLIENT PROJ NO:

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# L0.4.1

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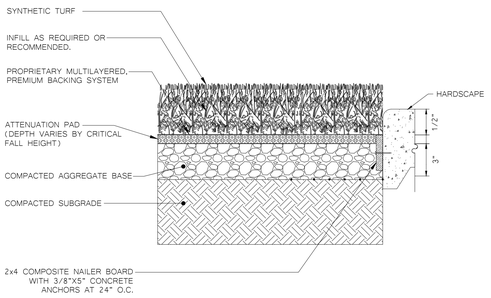
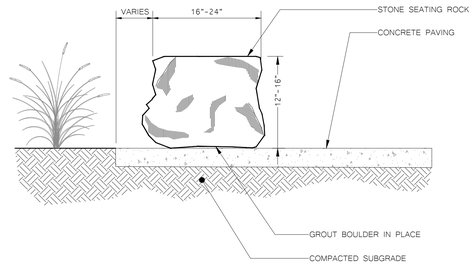
NOTE:
1. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
2. SURFACING SHALL COMPLY WITH CBC 11B-1008.2.6.1 AND 11B-1008.2.6.2
3. SEE ACCESSIBLE PLAY PLAN ENLARGEMENT ON SHEET L0.7.1 FOR LIMITS OF ACCESSIBLE SURFACING AND CONFIRMATION OF COMPLIANCE.




1 PLAYGROUND GRASS SYSTEM BY FOREVER LAWN

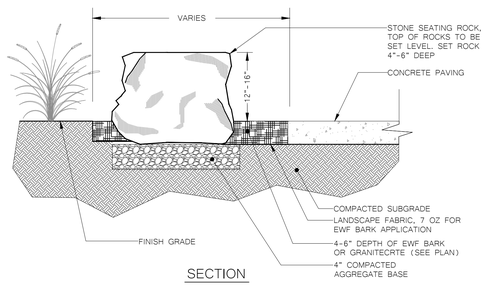
NOTES:
1. ALL ROCKS SHALL BE PROVIDED BY MONTANA ROCKWORK OR APPROVED EQUAL.
2. ROCK TO BE SET AT A DEPTH OF APPROXIMATELY 6". ROCK MAY BE PLACED LOWER TO ACHIEVE THE DESIRED SITTING HEIGHT.
3. ACTUAL ROCK TYPE, SIZE AND COLOR SUBJECT TO APPROVAL BY LANDSCAPE ARCHITECT. CONTACT AND SCHEDULE MEETING FOR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




SECTION

2 SEATING BOULDER ON CONCRETE DETAIL

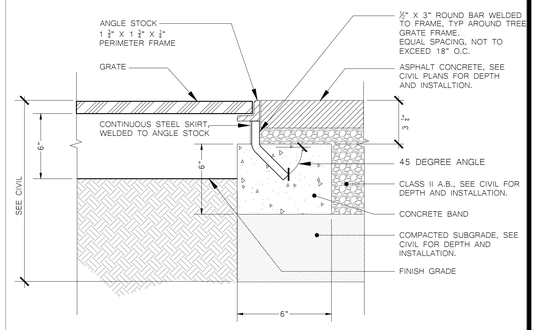
NOTES:
1. ALL ROCKS SHALL BE PROVIDED BY MONTANA ROCKWORK OR APPROVED EQUAL. ROCK TO BE SET AT A DEPTH OF 4"-6". ROCK MAY BE PLACED LOWER TO ACHIEVE THE DESIRED SITTING HEIGHT.
2. ROCKS TO BE SPACED 12"-18" BETWEEN ONE ANOTHER WHEN PLACED IN GROUPINGS PER THE LANDSCAPE PLAN. TOP OF ROCKS TO BE SET LEVEL.
3. ACTUAL ROCK TYPE, SIZE AND COLOR SUBJECT TO APPROVAL BY LANDSCAPE ARCHITECT. CONTACT AND SCHEDULE MEETING FOR BOULDER SELECTION PRIOR TO PURCHASING.
3. LANDSCAPE ELEMENT NOT PART OF DSA APPROVAL.




SECTION

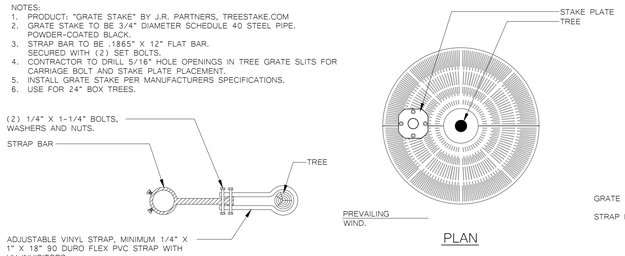
3 SEATING BOULDER ON WALK ON BARK DETAIL

NOTE:
1. PRODUCT: OLYMPIAN 8' RADIUS TREE GRATE BY IRONSMITH. GRATES TO BE CAST IRON MATERIAL WITH BAKED ON OIL FINISH.
2. CONTRACTOR TO EXCAVATE COMPACTED NON-NATIVE SOIL, BASE ROCK, AND ANY OTHER DEBRIS DOWN TO A 24" MINIMUM DEPTH TO NATIVE UNCOMPACTED SOIL. REINSTALL NATIVE OR IMPORTED TOPSOIL ONCE FLATWORK IS COMPLETED. SCARIFY THE NATIVE SOIL AT THE BOTTOM AND SIDES OF TREE PIT PRIOR TO PLANTING.

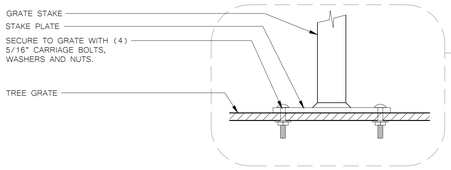


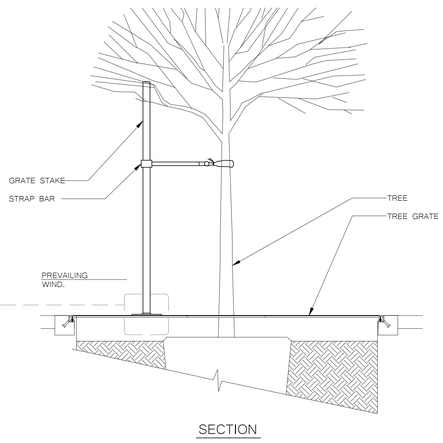

4 TREE GRATE FRAME DETAIL

NOTES:
1. PRODUCT: "GRATE STAKE" BY J.R. PARTNERS, TREESTAKE.COM
2. GRATE STAKE TO BE 3/4" DIAMETER SCHEDULE 40 STEEL PIPE, POWDER-COATED BLACK.
3. STRAP BAR TO BE .1865" X 12" FLAT BAR. SECURED WITH (2) SET BOLTS.
4. CONTRACTOR TO DRILL 5/16" HOLE OPENINGS IN TREE GRATE SLITS FOR CARRIAGE BOLT AND STAKE PLATE PLACEMENT.
5. INSTALL GRATE STAKE PER MANUFACTURERS SPECIFICATIONS.
6. USE FOR 24" BOX TREES.




PLAN

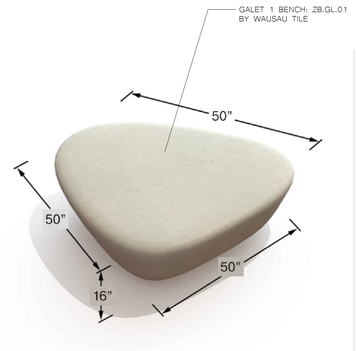



SECTION

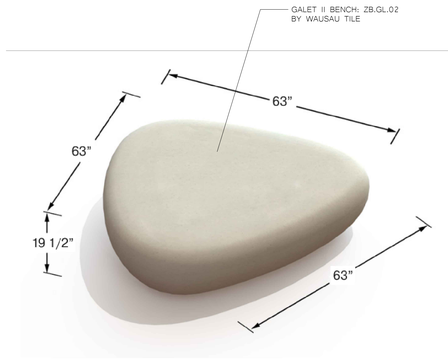
5 STANDARD GRATE STAKING DETAIL

NOTES:
1. REFER TO PLANS FOR ADDITIONAL INFORMATION.
2. SEAT WEIGHT: 2,381 LBS
3. INSTALL PER MANUFACTURERS RECOMMENDATIONS.




6 PRE-CAST CONCRETE SEAT - ZB.GL.01

NOTES:
1. REFER TO PLANS FOR ADDITIONAL INFORMATION.
2. SEAT WEIGHT: 4,121 LBS
3. INSTALL PER MANUFACTURERS RECOMMENDATIONS.

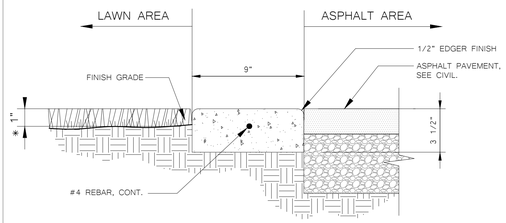



7 PRE-CAST CONCRETE SEAT - ZB.GL.02

NOTES:
1. REFER TO PLANS FOR ADDITIONAL INFORMATION.
2. SEAT WEIGHT: 5,058 LBS
3. INSTALL PER MANUFACTURERS RECOMMENDATIONS.

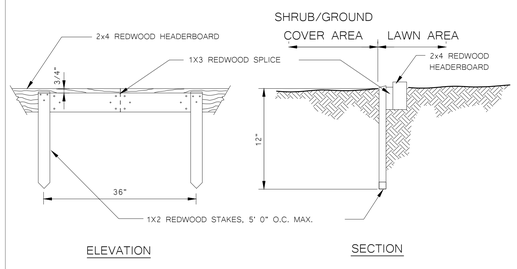
8 PRE-CAST CONCRETE SEAT - ZB.GL.03

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

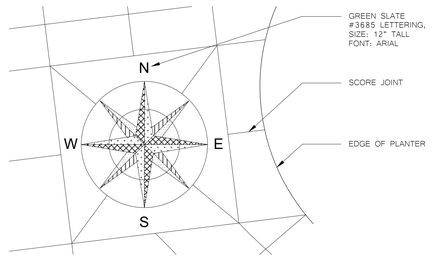
NOTES:
1. WHEREVER POSSIBLE INSTALL STAKES AND SPLICES ON SHRUB/GROUNDCOVER SIDE.
2. ALL LUMBER TO BE REDWOOD CONSTRUCTION ROUGH (CALIFORNIA REDWOOD ASSOCIATION GRADING)
3. LAMINATE 1X4 BOARDS FOR CURVES. USE 1X3 REDWOOD AT SPLICES. STAGGER SPLICES.




ELEVATION SECTION

10 REDWOOD HEADERBOARD DETAIL

NOTES:
1. CONCRETE COLORS: DAVIS COLORS,
LIGHT GRAY #8084
GREEN SLATE #3685
WILLOW GREEN #5376
PALOMINO #5447
FINISH: SALT FINISH
2. CONFIRM COLOR SELECTION WITH OWNER.
3. SEE SHEET L0.3.1 FOR RADIUS AND DIMENSIONS..




DAVIS CONCRETE COLOR KEY
LIGHT GRAY #8084
WILLOW GREEN #5376
GREEN SLATE #3685
PALOMINO #5447

11 COMPASS ROSE AND BRONZE LOGO GRAPHICS LAYOUT

AGENCY APPROVAL:

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MTW group
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Sacramento, CA 95816
916 369-3990

MASTER LANDSCAPE ARCHITECT 5453 REGISTERED LANDSCAPE ARCHITECT 12/03/26 7/31/27 STATE OF CALIFORNIA

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 INSTALLATION DETAILS**

**DSA SUBMITTAL**

DATE: **2025.12.09** CLIENT PROJ NO:

SHEET:

# L0.5.1

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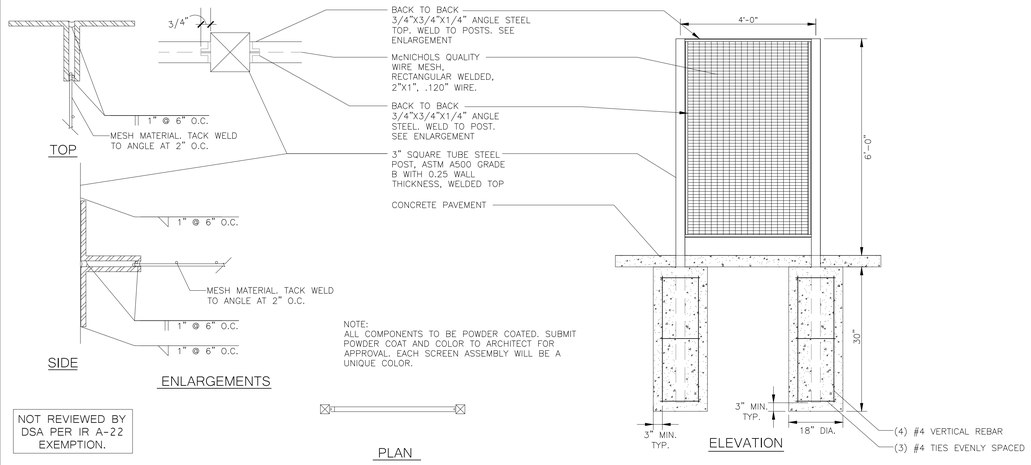
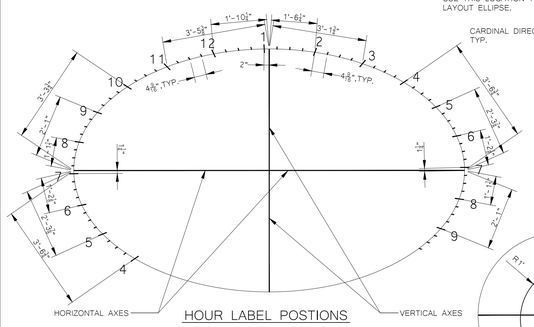
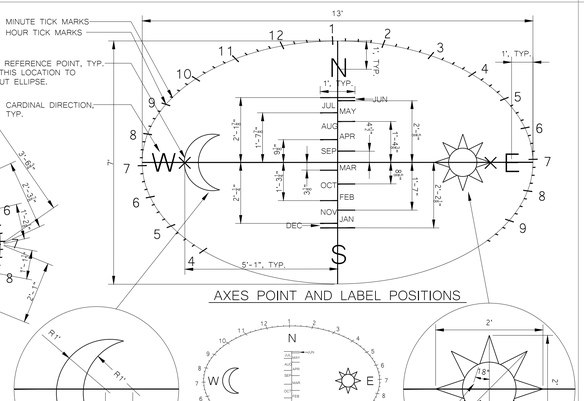



## 1 TEACHING SCREEN DETAIL

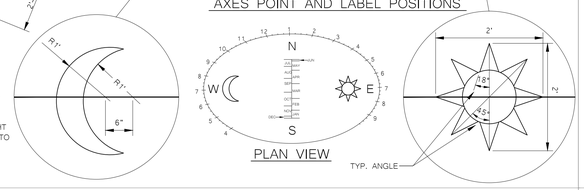
NOTE:
1. SUN DIAL MUST ALIGN TO TRUE NORTH. HORIZONTAL AND VERTICAL AXES ARE REFERENCE LINES FOR DIMENSIONING POINTS, MARKING CARDINAL DIRECTIONS, INDICATING HOURS, AND DESIGNATING MONTHLY POSITIONS, AS WELL AS SUNRISE AND SUNSET POSITIONS. AFTER FINALIZING THE ELLIPSE LAYOUT, REMOVE THESE REFERENCE LINES (REFERENCE PLAN VIEW FOR FINAL LAYOUT)
2. USE A LOOP 23'-2 1/8" LONG TO LAYOUT THE ELLIPSE FROM AXES POINTS.




HOUR LABEL POSTIONS



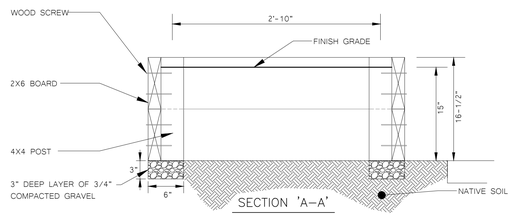

AXES POINT AND LABEL POSITIONS

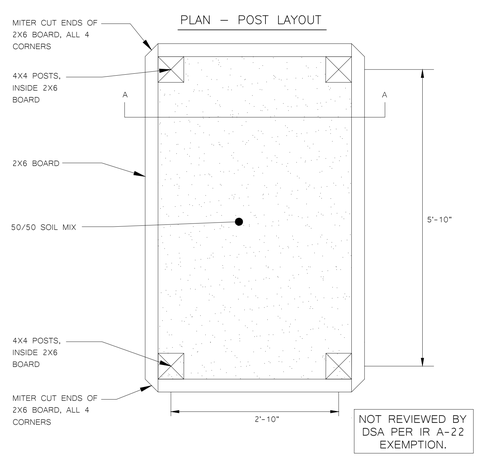



4. ALL LINES ARE TO BE 2" WIDE AND DARK BLUE IN COLOR, UNLESS SPECIFIED OTHERWISE. COLOR TO BE REVIEWED BY OWNER PRIOR TO INSTALLATION. MINUTE TICK MARKS ARE TO BE 4" LONG AND LIGHT BLUE IN COLOR. HOUR TICK MARKS ARE TO BE 8" LONG AND ORANGE IN COLOR. ALL NUMBERING IS TO BE 6" W X 6" H, DARK BLUE IN COLOR. ALL CARDINAL DIRECTION LETTERING IS TO BE 9" W X 9" H, DARK BLUE IN COLOR. ALL MONTH LETTERING IS TO BE 3-½" X 4-½" H, LIGHT BLUE IN COLOR.
5. SUBMIT COLORS, FONT AND SHOP DRAWINGS FOR APPROVAL.

## 3 SUN DIAL STRIPING DETAIL

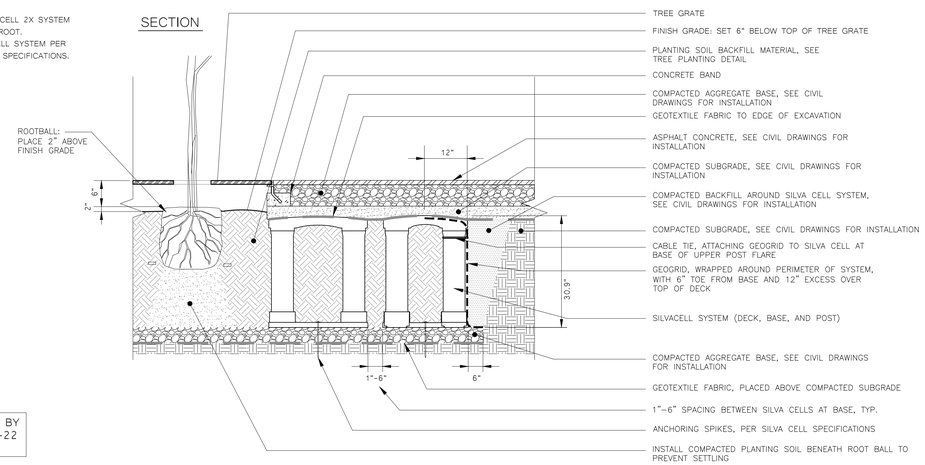
NOTE:
1. ALL LUMBER TO BE REDWOOD.
2. SEE CIVIL DRAWINGS FOR WOOD RETAINING WALL DETAILS.
3. MITER CUT ENDS OF 2X6 BOARDS AT A 45 DEGREE ANGLE FOR ALL 4 CORNERS.
4. SET BOX LEVEL AND PLUM.
5. 50/50 SOIL MIX SHALL BE 50% TOPSOIL AND 50% COMPOST. GENTLY COMPACT TO 80% IN 3 LIFTS.
6. SEE ARCHITECTURAL PLANS FOR PLACEMENT.
7. SAND ALL EXPOSED WOOD WITH FINE SANDPAPER TO ELIMINATE GRIT SPLINTERS AND SHARP CORNERS.
8. PROVIDE 48" SPACE BETWEEN BOXES FOR AT LEAST 5% OF BOXES IN EACH AREA.




## 2 WOOD PLANTER BOX

NOTE:
1. PRODUCT: SILVA CELL 2X SYSTEM HEIGHT BY DEEPROOT.
2. INSTALL SILVA CELL SYSTEM PER MANUFACTURERS SPECIFICATIONS.




NOT REVIEWED BY DSA PER IR A-22 EXEMPTION.

## 4 SILVA CELL SYSTEM DETAIL

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REGISTERED LANDSCAPE ARCHITECT 5453 — 12/03/26 — 7/31/27 — STATE OF CALIFORNIA

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 INSTALLATION DETAILS**

**DSA SUBMITTAL**

DATE: **2025.12.09** | CLIENT PROJ NO:

SHEET:

**L0.6.1**

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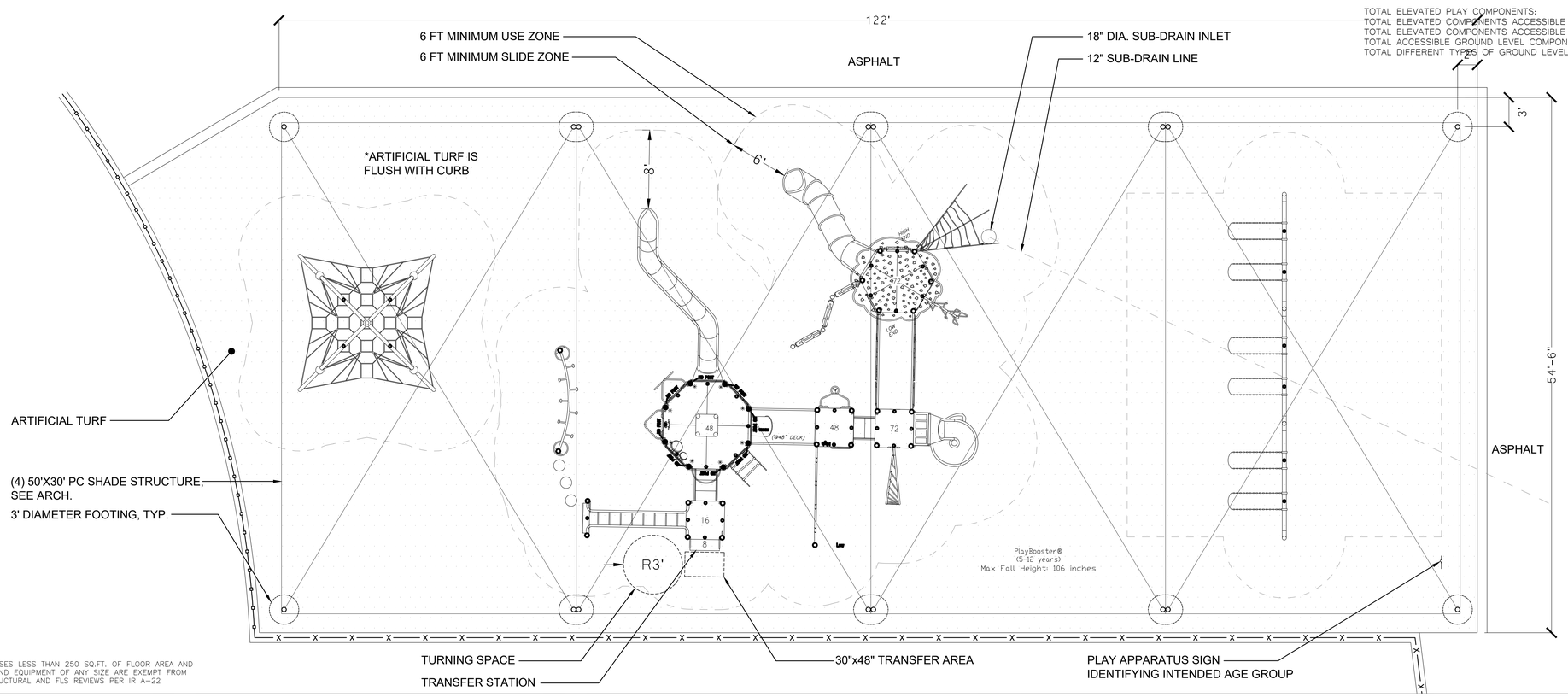
THE LINE BROWN ABOVE IS EXACTLY 1" WHEN PRINTED ON 24"X36" SHEETS ORIGINAL PAGE SIZE

ADA ACCESSIBILITY GUIDELINE - ADAAG CONFORMANCE, PER CBC 11B-240

| | | |
|---|---|---|
| TOTAL ELEVATED PLAY COMPONENTS: | 19 | |
| TOTAL ELEVATED COMPONENTS ACCESSIBLE BY RAMP: | 0, | REQUIRED 0 |
| TOTAL ELEVATED COMPONENTS ACCESSIBLE BY TRANSFER: | 16, | REQUIRED 10 |
| TOTAL ACCESSIBLE GROUND LEVEL COMPONENTS SHOWN: | 11, | REQUIRED 6 |
| TOTAL DIFFERENT TYPES OF GROUND LEVEL COMPONENTS: | 5, | REQUIRED 5 |



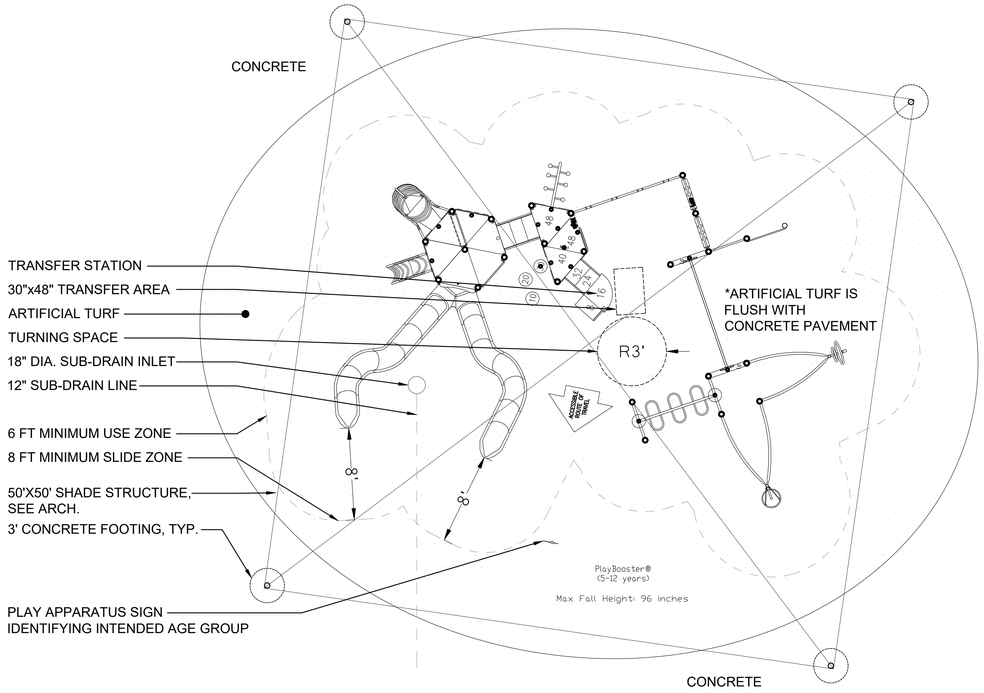

PLAYHOUSES LESS THAN 250 SQ.FT. OF FLOOR AREA AND PLAYGROND EQUIPMENT OF ANY SIZE ARE EXEMPT FROM DSA STRUCTURAL AND FLS REVIEWS PER IR A-22

SCALE: 3/16" = 1'-0"

1 — 5-12 PRIMARY PLAY AREA

ADA ACCESSIBILITY GUIDELINE - ADAAG CONFORMANCE, PER CBC 11B-240

| | | |
|---|---|---|
| TOTAL ELEVATED PLAY COMPONENTS: | 7 | |
| TOTAL ELEVATED COMPONENTS ACCESSIBLE BY RAMP: | 0, | REQUIRED 0 |
| TOTAL ELEVATED COMPONENTS ACCESSIBLE BY TRANSFER: | 7, | REQUIRED 4 |
| TOTAL ACCESSIBLE GROUND LEVEL COMPONENTS SHOWN: | 3, | REQUIRED 3 |
| TOTAL DIFFERENT TYPES OF GROUND LEVEL COMPONENTS: | 3, | REQUIRED 3 |



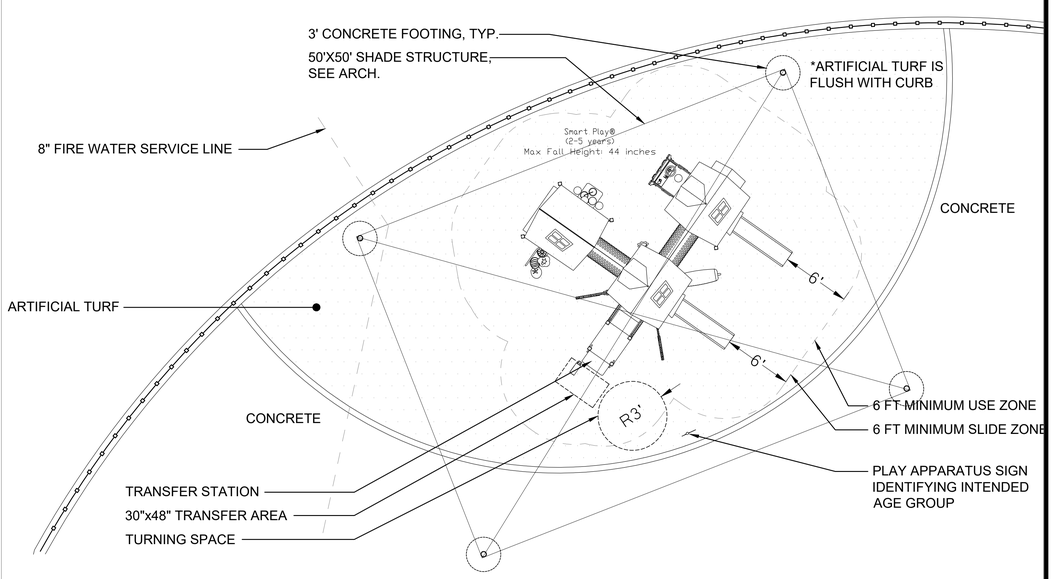

PLAYHOUSES LESS THAN 250 SQ.FT. OF FLOOR AREA AND PLAYGROND EQUIPMENT OF ANY SIZE ARE EXEMPT FROM DSA STRUCTURAL AND FLS REVIEWS PER IR A-22

SCALE: 3/16" = 1'-0"

2 — KINDERGARTEN PLAY AREA

ADA ACCESSIBILITY GUIDELINE - ADAAG CONFORMANCE, PER CBC 11B-240

| | | |
|---|---|---|
| TOTAL ELEVATED PLAY COMPONENTS: | 18 | |
| TOTAL ELEVATED COMPONENTS ACCESSIBLE BY RAMP: | 0, | REQUIRED 0 |
| TOTAL ELEVATED COMPONENTS ACCESSIBLE BY TRANSFER: | 13, | REQUIRED 9 |
| TOTAL ACCESSIBLE GROUND LEVEL COMPONENTS SHOWN: | 12, | REQUIRED 6 |
| TOTAL DIFFERENT TYPES OF GROUND LEVEL COMPONENTS: | 8, | REQUIRED 8 |




PLAYHOUSES LESS THAN 250 SQ.FT. OF FLOOR AREA AND PLAYGROND EQUIPMENT OF ANY SIZE ARE EXEMPT FROM DSA STRUCTURAL AND FLS REVIEWS PER IR A-22

SCALE: 3/16" = 1'-0"

3 — TK 2-5 PLAY AREA

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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:
**SITE ENLARGEMENTS - PLAY GROUND AREAS**

**DSA SUBMITTAL**

DATE: **2025.12.09** | CLIENT PROJ NO:

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**L0.7.1**

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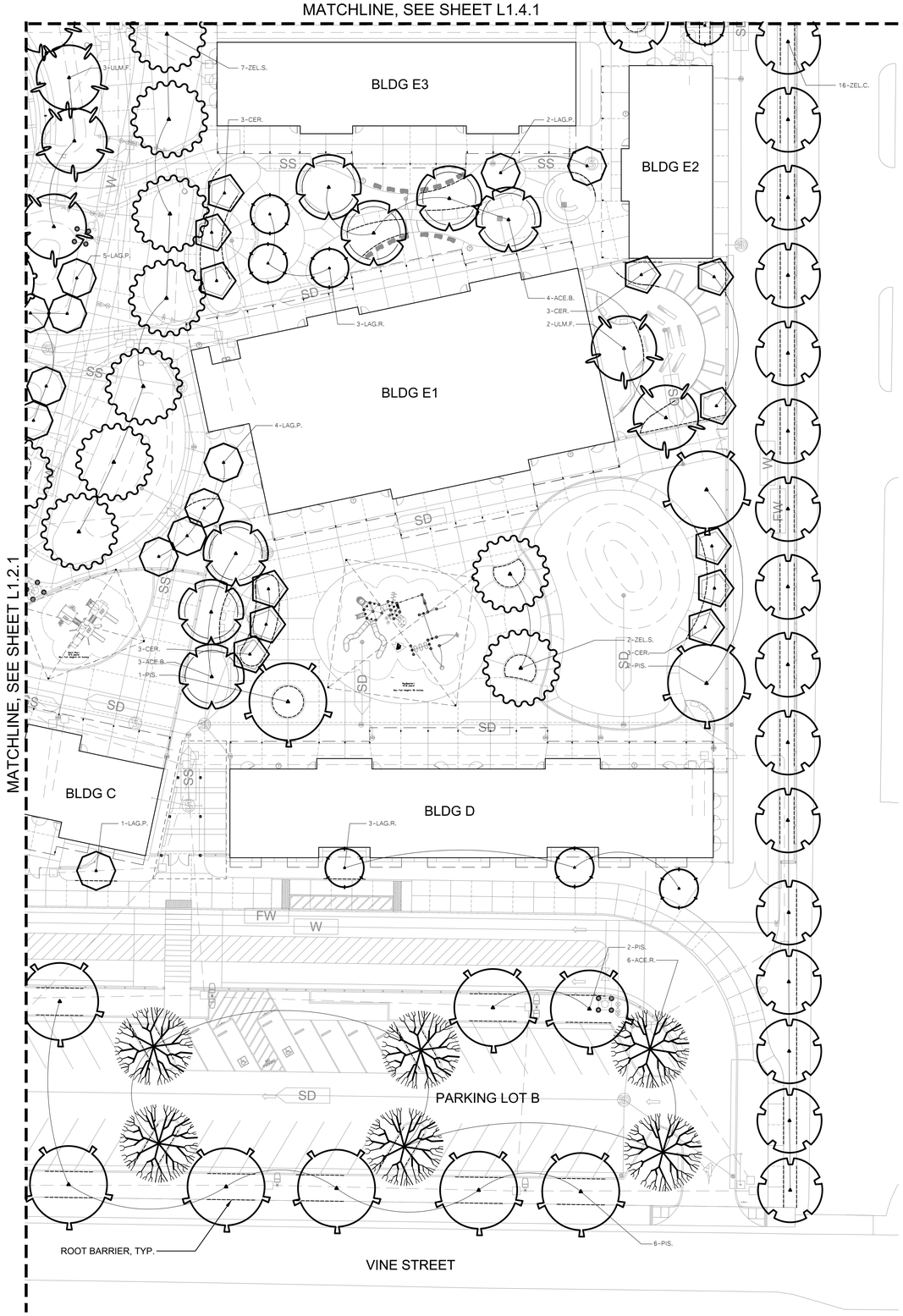


KEY | TREE LEGEND

TREES - NOT ALL SYMBOLS SHOWN

ROOT BARRIER, INSTALL WHERE SHOWN
SEE DETAIL 2/L4.1.1

7-AAA
PLANT QUANTITY
PLANT KEY

## TREE MATERIAL LIST

| SIZE | QTY. | KEY | BOTANICAL NAME ... COMMON NAME | WATER USE |
|---|---|---|---|---|
| | | | TREES: | |
| 24" BOX | 21 | ACE.B. | ACER BUERGERIANUM ... TRIDENT MAPLE | MEDIUM |
| 24" BOX | 15 | ACE.R. | ACER RUBRUM 'RED SUNSET' ... RED MAPLE | MEDIUM |
| 24" BOX | 20 | CER. | CERCIS CANADENSIS 'OKLAHOMA' ... OKLAHOMA REDBUD | MEDIUM |
| 24" BOX | 10 | LAG.W. | LAGERSTROEMIA HYBRID 'NATCHEZ' ... WHITE CRAPE MYRTLE | LOW |
| 24" BOX | 10 | LAG.R. | LAGERSTROEMIA HYBRID 'DYNAMITE' ... RED CRAPE MYRTLE | LOW |
| 24" BOX | 15 | LAG.P. | LAGERSTROEMIA HYBRID 'TUSCARORA' ... PINK CRAPE MYRTLE | LOW |
| 24" BOX | 4 | NYS. | NYSSA SYLVATICA ... SOUR GUM | LOW |
| 24" BOX | 37 | PIS. | PISTACIA CHINENSIS 'KEITH DAVEY' ... CHINESE PISTACHE | LOW |
| 48" BOX | 1 | QUE. | QUERCUS BUCKLEY ... TEXAS RED OAK | LOW |
| 24" BOX | 12 | ULM.P. | ULMUS WILSONIANA 'PROSPECTOR' ... PROSPECTOR ELM | LOW |
| 24" BOX | 11 | ULM.F. | ULMUS 'FRONTIER' ... FRONTIER ELM | LOW |
| 24" BOX | 22 | ZEL.C. | ZELKOVA 'CITY SPRITE' ... JAPANESE ZELKOVA | MEDIUM |
| 24" BOX | 18 | ZEL.S. | ZELKOVA SERRATA ... SAWLEAF ZELKOVA | MEDIUM |
| 24" BOX | 32 | ZEL.M. | ZELKOVA SERRATA 'MUSASHINO' ... MUSASHINO COLUMNAR | 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 L4.1.1 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

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20' 10' 0 20' 40'

SCALE: 1"= 20'-0"

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KEYNOTES

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25-31

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

REGISTERED LANDSCAPE ARCHITECT 5453 12/03/26 3/31/27 STATE OF CALIFORNIA

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**

**DSA SUBMITTAL**

DATE: **2025.12.09** | CLIENT PROJ NO:

SHEET:

# L1.1.1

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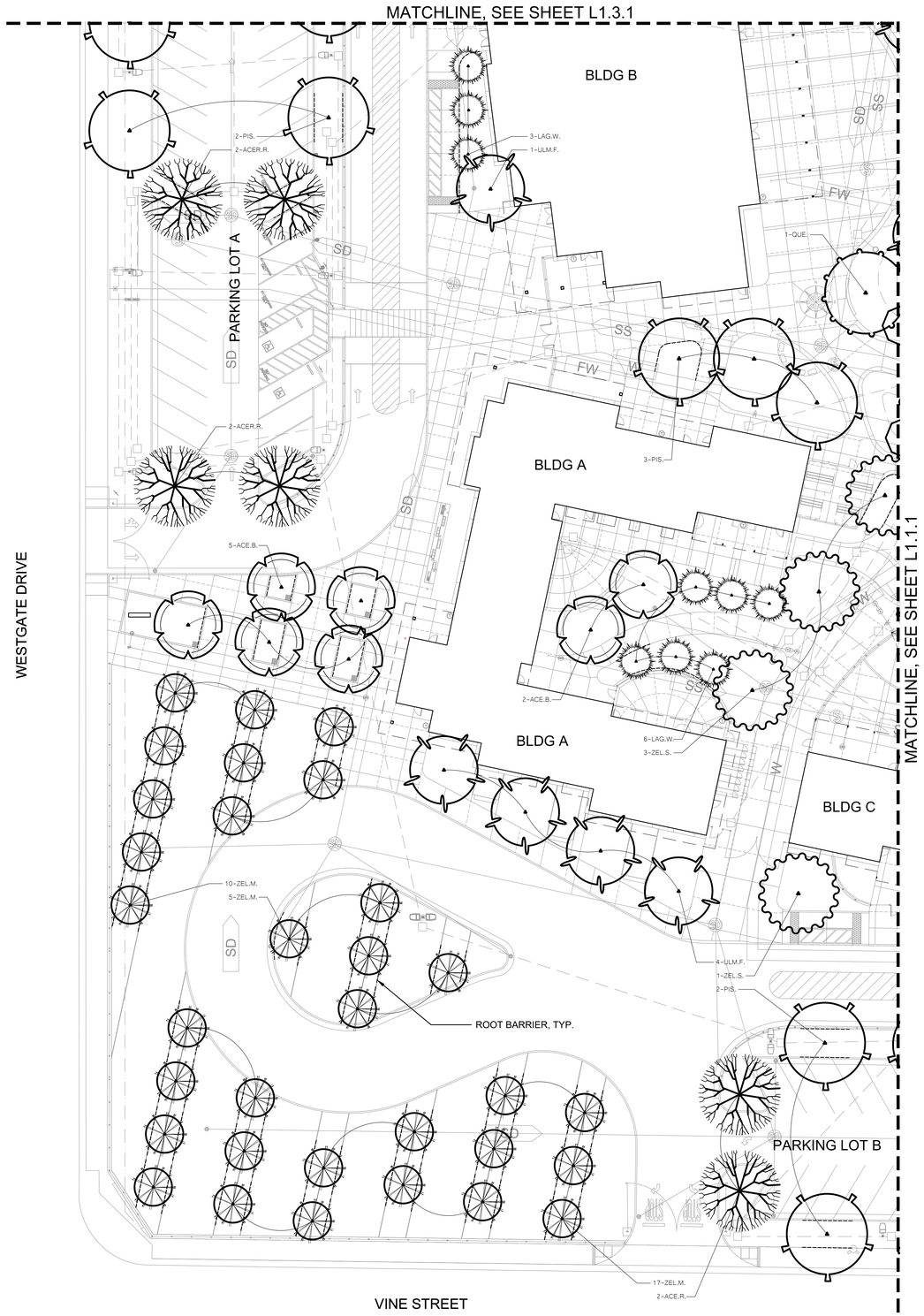


KEY | TREE LEGEND

TREES - NOT ALL SYMBOLS SHOWN

ROOT BARRIER, INSTALL WHERE SHOWN
SEE DETAIL 2/L4.1.1

7-AAA — PLANT QUANTITY / PLANT KEY

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REGISTERED LANDSCAPE ARCHITECT — BRYAN HOLLIS MTW — 5453 — 12/03/26 — 7/31/27 — STATE OF CALIFORNIA

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**

**DSA SUBMITTAL**

DATE: **2025.12.09** | CLIENT PROJ NO:

SHEET:

**L1.2.1**

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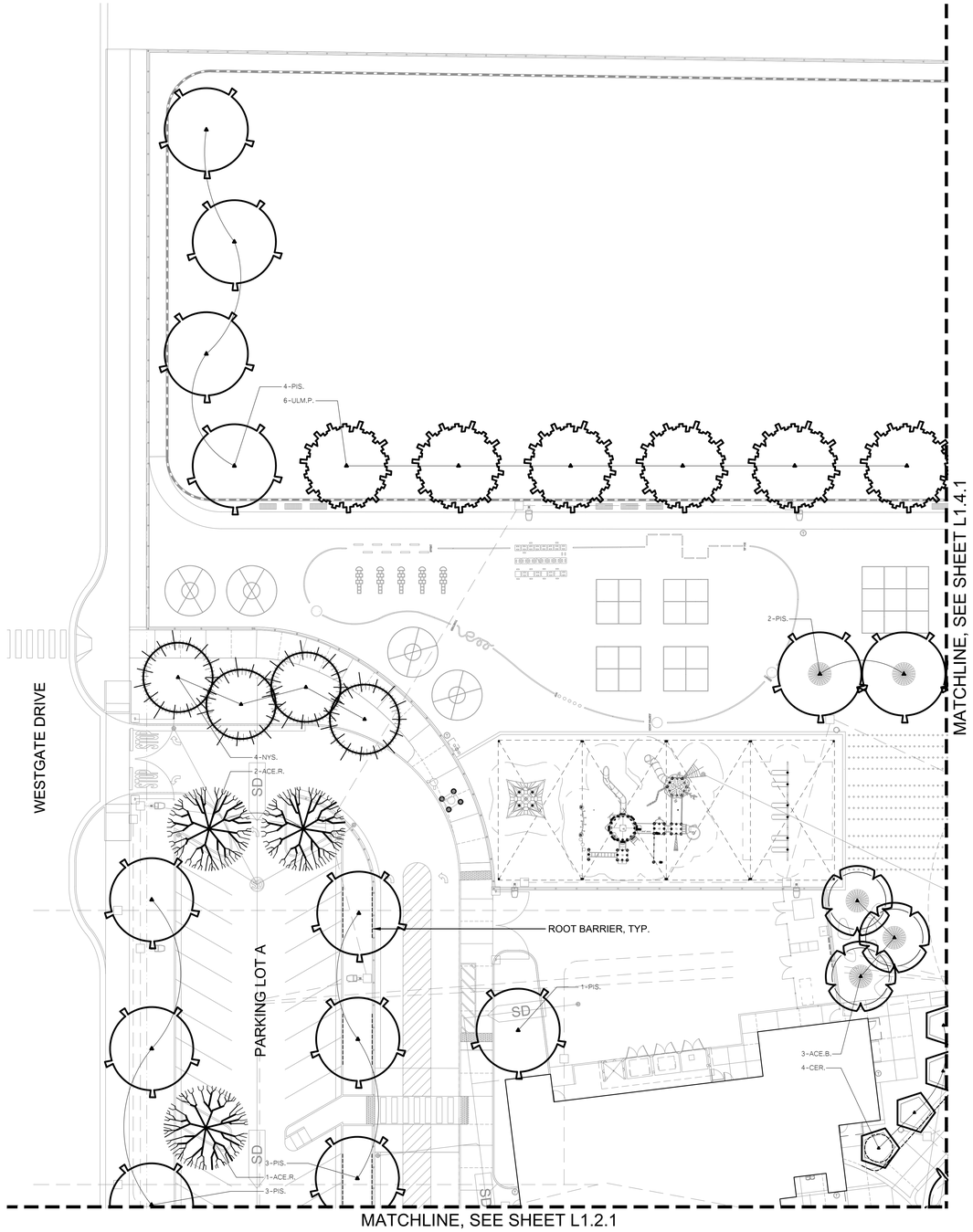


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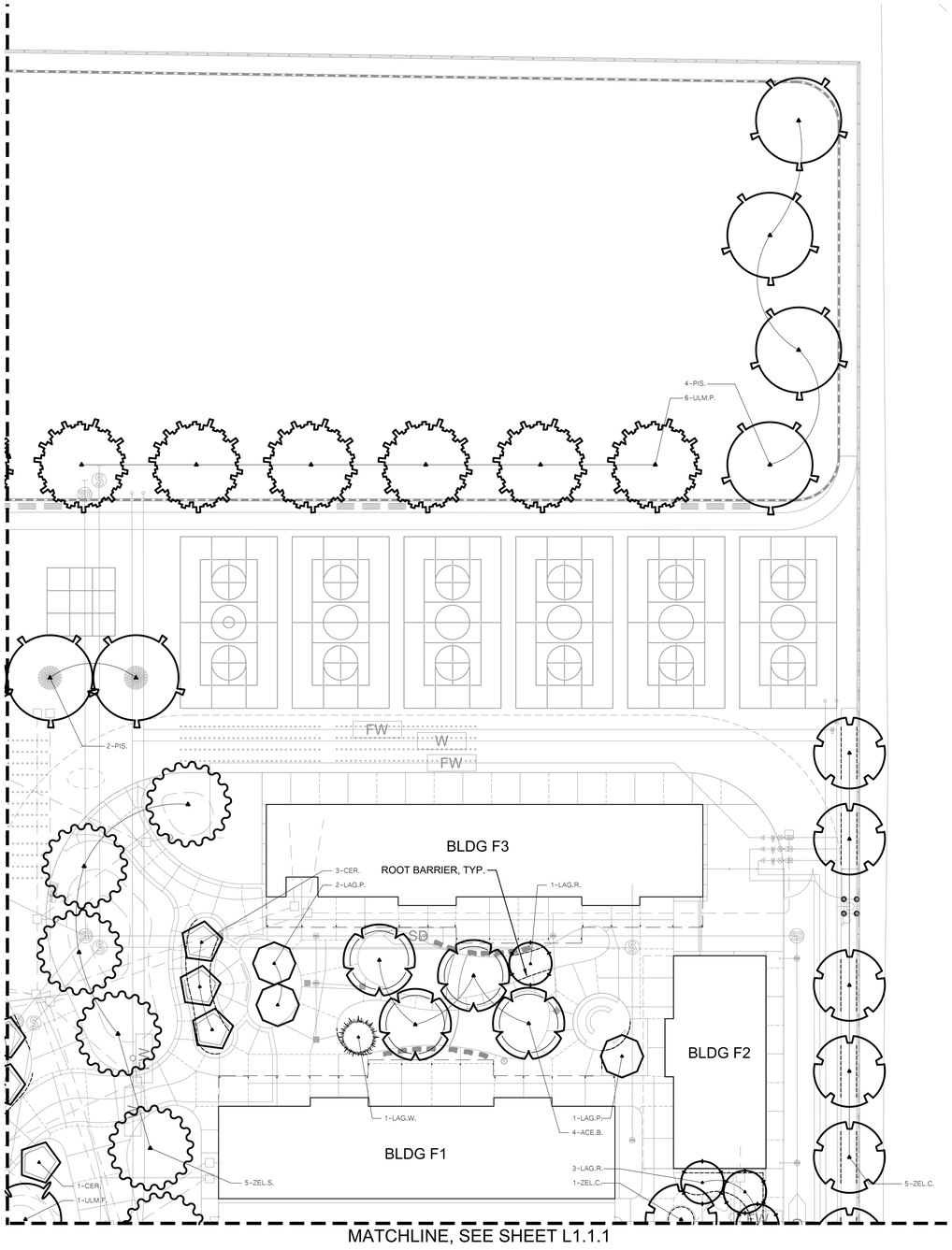


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PLANTS SHALL BE IN ACCORDANCE WITH AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) ANSI Z60.1- AMERICAN STANDARD FOR NURSERY STOCK, EXCEPT AS OTHERWISE STATED IN SPECIFICATIONS OR SHOWN ON DRAWINGS. WHERE DRAWINGS OR SPECIFICATIONS ARE IN CONFLICT WITH 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"

**AGENCY APPROVAL:**

LODI USD

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

**ISSUE**

Δ _ DESCRIPTION _____ DATE ____

**KEYNOTES**

**NOTES**

25-31

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

REGISTERED LANDSCAPE ARCHITECT 5453 WILLIAM HOLLIS MTW 12/03/26 7/31/27 STATE OF CALIFORNIA

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**

**DSA SUBMITTAL**

DATE: **2025.12.09** | CLIENT PROJ NO:

SHEET:

**L1.4.1**

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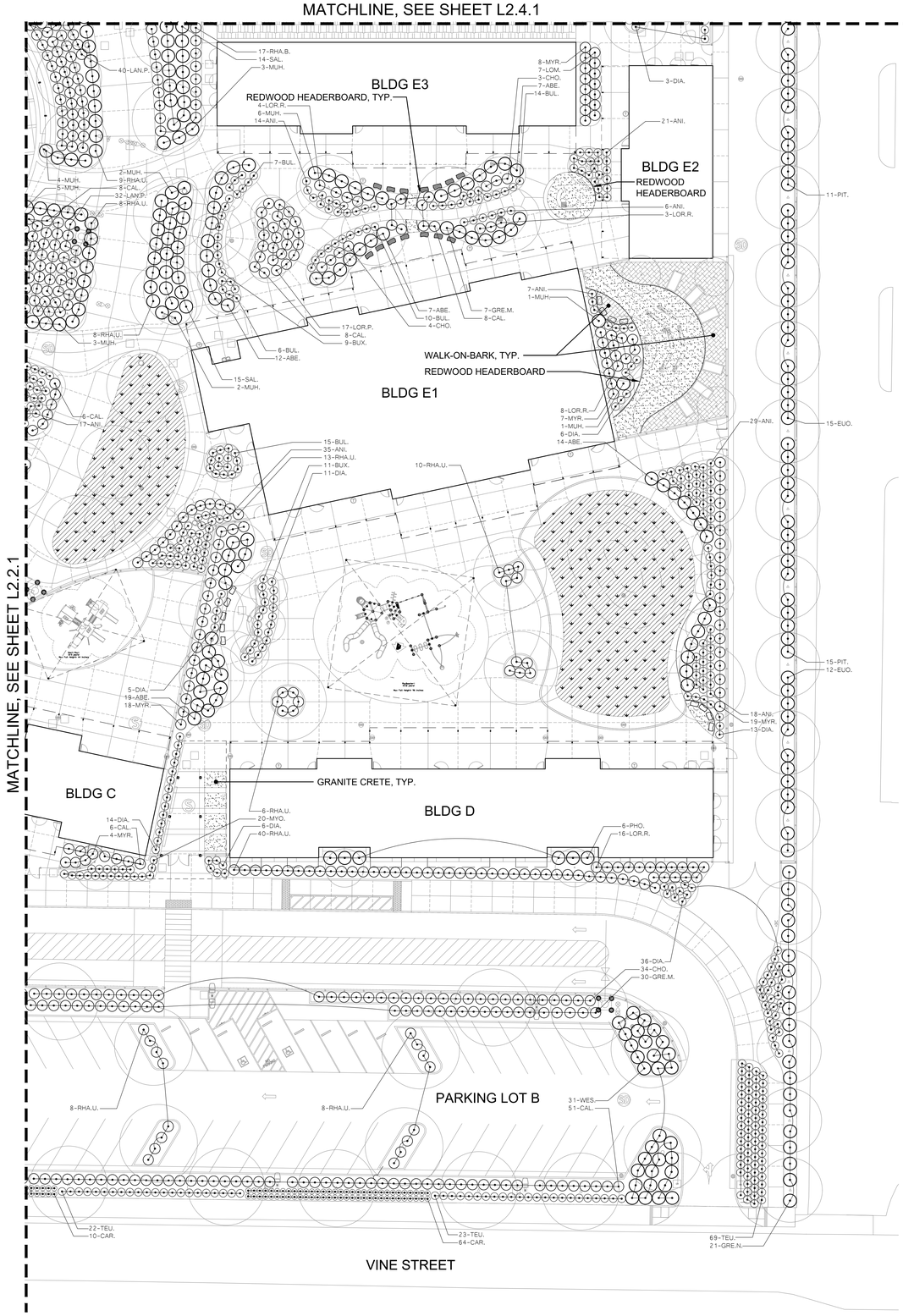


## KEY / LANDSCAPE LEGEND

- TREE OUTLINE FOR REFERENCE
- SHRUBS
- 7 - AAA. — PLANT QUANTITY / PLANT KEY
- LAWN (SOD)
- DECOMPOSED GRANITE — SEE DETAIL 5/L4.1.1
- GRANITE CRETE — COLOR: CARMEL COAST; SEE DETAIL 5/L4.1.1
- BARK MULCH ONLY — 3" DEPTH
- WALK ON BARK — 6" DEPTH READYPLAY EWF BY MYBARK, OR APPROVED EQUAL.
- DECORATIVE ROCK — 3/8"-1-1/2" CALIFORNIA GOLD ROCK AT 2" DEPTH. COMPACT SUBGRADE TO 90%, INSTALL 7OZ WEED BARRIER WITH STAPLES AT 18" O.C. AT EDGES AND 36" O.C. IN FIELD. PLACE 2" DECORATIVE ROCK AND RAKE SMOOTH. FINISH GRADE OF ROCK SHALL BE LEVEL WITH ADJACENT HARDSCAPE..
- CONCRETE MOWSTRIP — SEE DETAIL 9/L0.5.1
- REDWOOD HEADERBOARD — SEE DETAIL 10/L0.5.1

## PLANT MATERIAL LIST

| WATER USE | SIZE | QUANTITY | KEY | BOTANICAL NAME ... COMMON NAME |
|---|---|---|---|---|
| | | | | SHRUBS: |
| LOW | 5 G.C. | 85 | ABE. | ABELIA GRANDIFLORA 'KALEIDOSCOPE' ... KALEIDSCOPE ABELIA |
| LOW | 5 G.C. | 233 | ANI. | ANIGOZANTHOS FLAVIDUS ... KANGAROO PAW |
| LOW | 5 G.C. | 123 | BUL. | BULBINE FRUTESCENS 'HALLMARK' ... HALLMARK BULBINE |
| LOW | 5 G.C. | 37 | BUX. | BUXUS MICROPHYLLA VAR. JAPONICA 'GREEN BEAUTY' ... GREEN BEAUTY JAPANESE BOXWOOD |
| LOW | 5 G.C. | 240 | CAL. | CALLISTEMON VIMINALIS 'LITTLE JOHN' ... DWARF BOTTLE BRUSH |
| LOW | 5 G.C. | 266 | CAR. | CAREX DIVULSA ... EUROPEAN GREY SEDGE |
| LOW | 5 G.C. | 123 | CHO. | CHONDROPETALUM TECTORUM ... CAPE RUSH |
| LOW | 5 G.C. | 213 | DIA. | DIANELLA TASMANICA 'VARIEGATA' ... VARIEGATED TASMAN FLAX LILY |
| LOW | 15 G.C. | 41 | EUO. | EUONYMUS JAPONICUS 'AUREOVARIEGATUS' ... GOLD SPOT EUONYMUS |
| LOW | 5 G.C. | 107 | GRE.M. | GREVILLEA LANIGERA 'MT. TAMBORITHA' ... MT TAMBORITHA WOOLLY GREVILLEA |
| LOW | 5 G.C. | 21 | GRE.N. | GREVILLEA 'NOELLII' ... GREVILLEA |
| LOW | 5 G.C. | 67 | LAN.N. | LANTANA 'NEW GOLD' ... NEW GOLD LANTANA |
| LOW | 5 G.C. | 263 | LAN.P. | LANTANA MONTEVIDENSIS (PURPLE) ... PURPLE TRAILING LANTANA |
| LOW | 5 G.C. | 273 | LOM. | LOMANDRA LONGIFOLIA 'BREEZE' ... BREEZE DWARF MAT RUSH |
| MEDIUM | 5 G.C. | 68 | LOR.P | LOROPETALUM CHINENSE 'PURPLE DAYDREAM' ... DWARF LOROPETALUM |
| MEDIUM | 5 G.C. | 90 | LOR.R. | LOROPETALUM CHINENSE 'RAZZLEBERRY' ... FRINGE FLOWER |
| LOW | 5 G.C. | 91 | MUH. | MUHLENBERGIA RIGENS ... DEER GRASS |
| LOW | 5 G.C. | 162 | MYR. | MRYSINE AFRICANA ... AFRICAN BOXWOOD |
| LOW | 5 G.C. | 13 | PHO. | PHORMIUM TENAX 'RUBRUM' ... NEW ZEALAND FLAX |
| LOW | 15 G.C. | 40 | PIT. | PITTOSPORUM TENIFOLIUM 'MARJORIE CHANNON' ... BLACK STEM PITTOSPORUM |
| LOW | 5 G.C. | 5 | PRU. | PRUNUS CAROLINIANA 'BRIGHT 'N TIGHT' ... CAROLINA LAUREL CHERRY |
| LOW | 5 G.C. | 35 | RHA.B. | RHAPHIOLEPIS INDICA 'BALLERINA' ... BALLERINA INDIAN HAWTHORN |
| LOW | 5 G.C. | 230 | RHA.U. | RHAPHIOLEPIS UMBELLATA 'MINOR' ... YEDDA HAWTHORN |
| LOW | 5 G.C. | 68 | SAL. | SALVIA MICROPHYLLA 'HOT LIPS' ... HOT LIPS SAGE |
| | | | | GROUNDCOVER: |
| LOW | 5 G.C. | 218 | MYO. | MYOPORUM PARVIFOLIUM ... MYOPORUM |
| LOW | 5 G.C. | 240 | TEU. | TEUCRIUM CHAMAEDRYS ... WALL GERMANDER |
| LOW | 5 G.C. | 98 | WES. | WESTRINGIA FRUTICOSA 'MUNDI' ... MUNDI COAST ROSEMARY |

## 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 L4.1.1 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.

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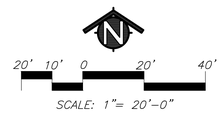


AGENCY APPROVAL:

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| Δ | DESCRIPTION | DATE |
|---|---|---|

KEYNOTES

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916 369-3990

LICENSED LANDSCAPE ARCHITECT — 5453 — 12/03/26 — 7/31/27 — STATE OF CALIFORNIA

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**

**DSA SUBMITTAL**

DATE: **2025.12.09** | CLIENT PROJ NO:

SHEET:

# L2.1.1

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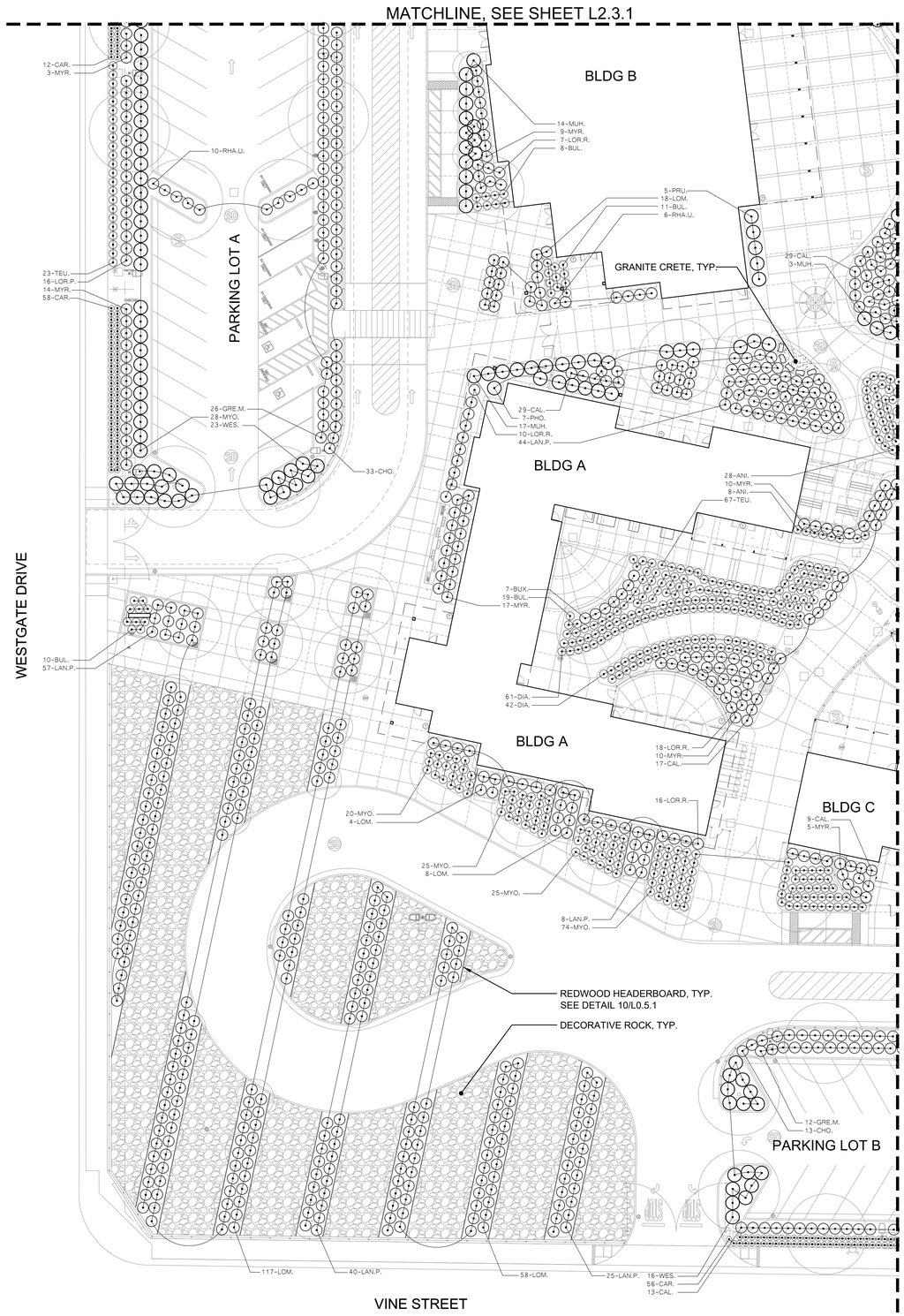


## KEY — LANDSCAPE LEGEND

- TREE OUTLINE FOR REFERENCE
- SHRUBS
- PLANT QUANTITY
- PLANT KEY (e.g. 7 - AAA.)
- LAWN (SOD)
- DECOMPOSED GRANITE
  SEE DETAIL 5/L4.1.1
- GRANITE CRETE
  COLOR: CARMEL COAST
  SEE DETAIL 5/L4.1.1
- BARK MULCH ONLY
  3" DEPTH
- WALK ON BARK
  6" DEPTH READYPLAY EWF BY MYBARK, OR APPROVED EQUAL.
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  3/8"-1-1/2" CALIFORNIA GOLD ROCK AT 2" DEPTH. COMPACT SUBGRADE TO 90%, INSTALL 7OZ WEED BARRIER WITH STAPLES AT 18" O.C. AT EDGES AND 36" O.C. IN FIELD. PLACE 2" DECORATIVE ROCK AND RAKE SMOOTH. FINISH GRADE OF ROCK SHALL BE LEVEL WITH ADJACENT HARDSCAPE..
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- REDWOOD HEADERBOARD
  SEE DETAIL 10/L0.5.1

## PLANT MATERIAL LIST

| WATER USE | SIZE | QUANTITY | KEY | BOTANICAL NAME ... COMMON NAME |
|---|---|---|---|---|
| | | | | SHRUBS: |
| LOW | 5 G.C. | 85 | ABE. | ABELIA GRANDIFLORA 'KALEIDOSCOPE' ... KALEIDOSCOPE ABELIA |
| LOW | 5 G.C. | 233 | ANI. | ANIGOZANTHOS FLAVIDUS ... KANGAROO PAW |
| LOW | 5 G.C. | 123 | BUL. | BULBINE FRUTESCENS 'HALLMARK' ... HALLMARK BULBINE |
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| LOW | 5 G.C. | 266 | CAR. | CAREX DIVULSA ... EUROPEAN GREY SEDGE |
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| LOW | 5 G.C. | 273 | LOM. | LOMANDRA LONGIFOLIA 'BREEZE' ... BREEZE DWARF MAT RUSH |
| MEDIUM | 5 G.C. | 68 | LOR.P | LOROPETALUM CHINENSE 'PURPLE DAYDREAM' ... DWARF LOROPETALUM |
| MEDIUM | 5 G.C. | 90 | LOR.R. | LOROPETALUM CHINENSE 'RAZZLEBERRY' ... FRINGE FLOWER |
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LICENSED LANDSCAPE ARCHITECT — CHRISTIAN HOLLIS MALCOLM — 5453 — 12/03/26 — 7/31/27 — STATE OF CALIFORNIA

FACILITY:
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**LODI, CA 95240**

PROJECT:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1**

SHEET NAME:
**SHRUB PLANTING PLAN**

**DSA SUBMITTAL**

DATE: **2025.12.09** | CLIENT PROJ NO:

SHEET:

# L2.2.1

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

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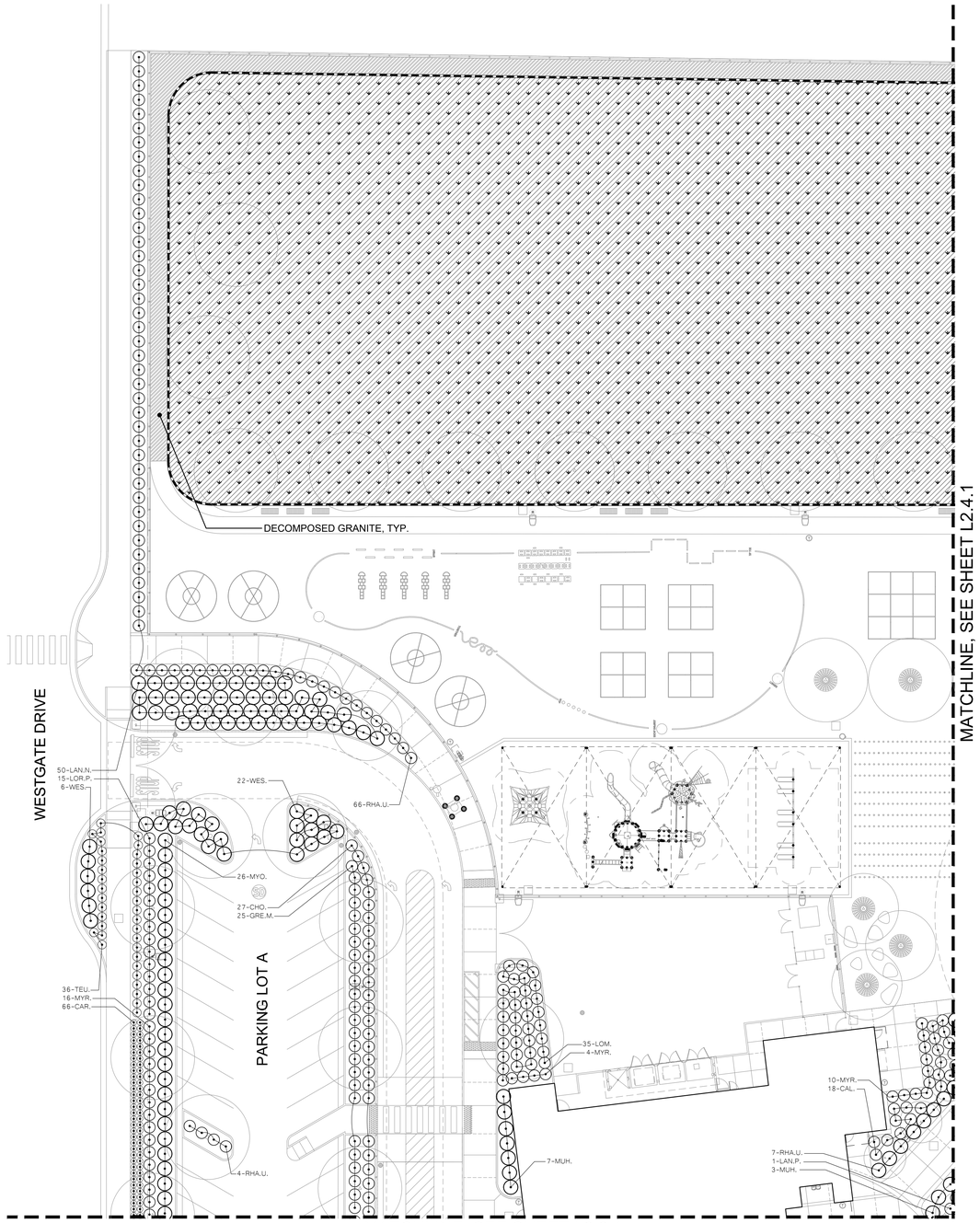


## KEY — LANDSCAPE LEGEND

- TREE OUTLINE FOR REFERENCE
- SHRUBS
- PLANT QUANTITY
- PLANT KEY (e.g. 7 - AAA)
- LAWN (SOD)
- DECOMPOSED GRANITE
  SEE DETAIL 5/L4.1.1
- GRANITE CRETE
  COLOR: CARMEL COAST
  SEE DETAIL 5/L4.1.1
- BARK MULCH ONLY
  3" DEPTH
- WALK ON BARK
  6" DEPTH READYPLAY EWF BY MYBARK, OR APPROVED EQUAL.
- DECORATIVE ROCK
  3/8"-1-1/2" CALIFORNIA GOLD ROCK AT 2" DEPTH. COMPACT SUBGRADE TO 90%, INSTALL 7OZ WEED BARRIER WITH STAPLES AT 18" O.C. AT EDGES AND 36" O.C. IN FIELD. PLACE 2" DECORATIVE ROCK AND RAKE SMOOTH. FINISH GRADE OF ROCK SHALL BE LEVEL WITH ADJACENT HARDSCAPE..
- CONCRETE MOWSTRIP
  SEE DETAIL 9/L0.5.1
- REDWOOD HEADERBOARD
  SEE DETAIL 10/L0.5.1

## PLANT MATERIAL LIST

| WATER USE | SIZE | QUANTITY | KEY | BOTANICAL NAME ... COMMON NAME |
|---|---|---|---|---|
| | | | | SHRUBS: |
| LOW | 5 G.C. | 85 | ABE. | ABELIA GRANDIFLORA 'KALEIDOSCOPE' ... KALEIDSCOPE ABELIA |
| LOW | 5 G.C. | 233 | ANI. | ANIGOZANTHOS FLAVIDUS ... KANGAROO PAW |
| LOW | 5 G.C. | 123 | BUL. | BULBINE FRUTESCENS 'HALLMARK' ... HALLMARK BULBINE |
| LOW | 5 G.C. | 37 | BUX. | BUXUS MICROPHYLLA VAR. JAPONICA 'GREEN BEAUTY' ... GREEN BEAUTY JAPANESE BOXWOOD |
| LOW | 5 G.C. | 240 | CAL. | CALLISTEMON VIMINALIS 'LITTLE JOHN' ... DWARF BOTTLE BRUSH |
| LOW | 5 G.C. | 266 | CAR. | CAREX DIVULSA ... EUROPEAN GREY SEDGE |
| LOW | 5 G.C. | 123 | CHO. | CHONDROPETALUM TECTORUM ... CAPE RUSH |
| LOW | 5 G.C. | 213 | DIA. | DIANELLA TASMANICA 'VARIEGATA' ... VARIEGATED TASMAN FLAX LILY |
| LOW | 15 G.C. | 41 | EUO. | EUONYMUS JAPONICUS 'AUREOVARIEGATUS' ... GOLD SPOT EUONYMUS |
| LOW | 5 G.C. | 107 | GRE.M. | GREVILLEA LANIGERA 'MT. TAMBORITHA' ... MT TAMBORITHA WOOLLY GREVILLEA |
| LOW | 5 G.C. | 21 | GRE.N. | GREVILLEA 'NOELLII' ... GREVILLEA |
| LOW | 5 G.C. | 67 | LAN.N. | LANTANA 'NEW GOLD' ... NEW GOLD LANTANA |
| LOW | 5 G.C. | 263 | LAN.P. | LANTANA MONTEVIDENSIS (PURPLE) ... PURPLE TRAILING LANTANA |
| LOW | 5 G.C. | 273 | LOM. | LOMANDRA LONGIFOLIA 'BREEZE' ... BREEZE DWARF MAT RUSH |
| MEDIUM | 5 G.C. | 68 | LOR.P | LOROPETALUM CHINENSE 'PURPLE DAYDREAM' ... DWARF LOROPETALUM |
| MEDIUM | 5 G.C. | 90 | LOR.R. | LOROPETALUM CHINENSE 'RAZZLEBERRY' ... FRINGE FLOWER |
| LOW | 5 G.C. | 91 | MUH. | MUHLENBERGIA RIGENS ... DEER GRASS |
| LOW | 5 G.C. | 162 | MYR. | MRYSINE AFRICANA ... AFRICAN BOXWOOD |
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| LOW | 5 G.C. | 5 | PRU. | PRUNUS CAROLINIANA 'BRIGHT 'N TIGHT' ... CAROLINA LAUREL CHERRY |
| LOW | 5 G.C. | 35 | RHA.B. | RHAPHIOLEPIS INDICA 'BALLERINA' ... BALLERINA INDIAN HAWTHORN |
| LOW | 5 G.C. | 230 | RHA.U. | RHAPHIOLEPIS UMBELLATA 'MINOR' ... YEDDA HAWTHORN |
| LOW | 5 G.C. | 68 | SAL. | SALVIA MICROPHYLLA 'HOT LIPS' ... HOT LIPS SAGE |
| | | | | GROUNDCOVER: |
| LOW | 5 G.C. | 218 | MYO. | MYOPORUM PARVIFOLIUM ... MYOPORUM |
| LOW | 5 G.C. | 240 | TEU. | TEUCRIUM CHAMAEDRYS ... WALL GERMANDER |
| LOW | 5 G.C. | 98 | WES. | WESTRINGIA FRUTICOSA 'MUNDI' ... MUNDI COAST ROSEMARY |

## 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 L4.1.1 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"

**AGENCY APPROVAL:**

LODI USD

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

**ISSUE**

Δ _ DESCRIPTION _ DATE

**KEYNOTES**

**NOTES**

25-31

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

REGISTERED LANDSCAPE ARCHITECT 5453 ROGER WILLIS MTW 12/03/26 7/31/27 STATE OF CALIFORNIA

FACILITY:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL**
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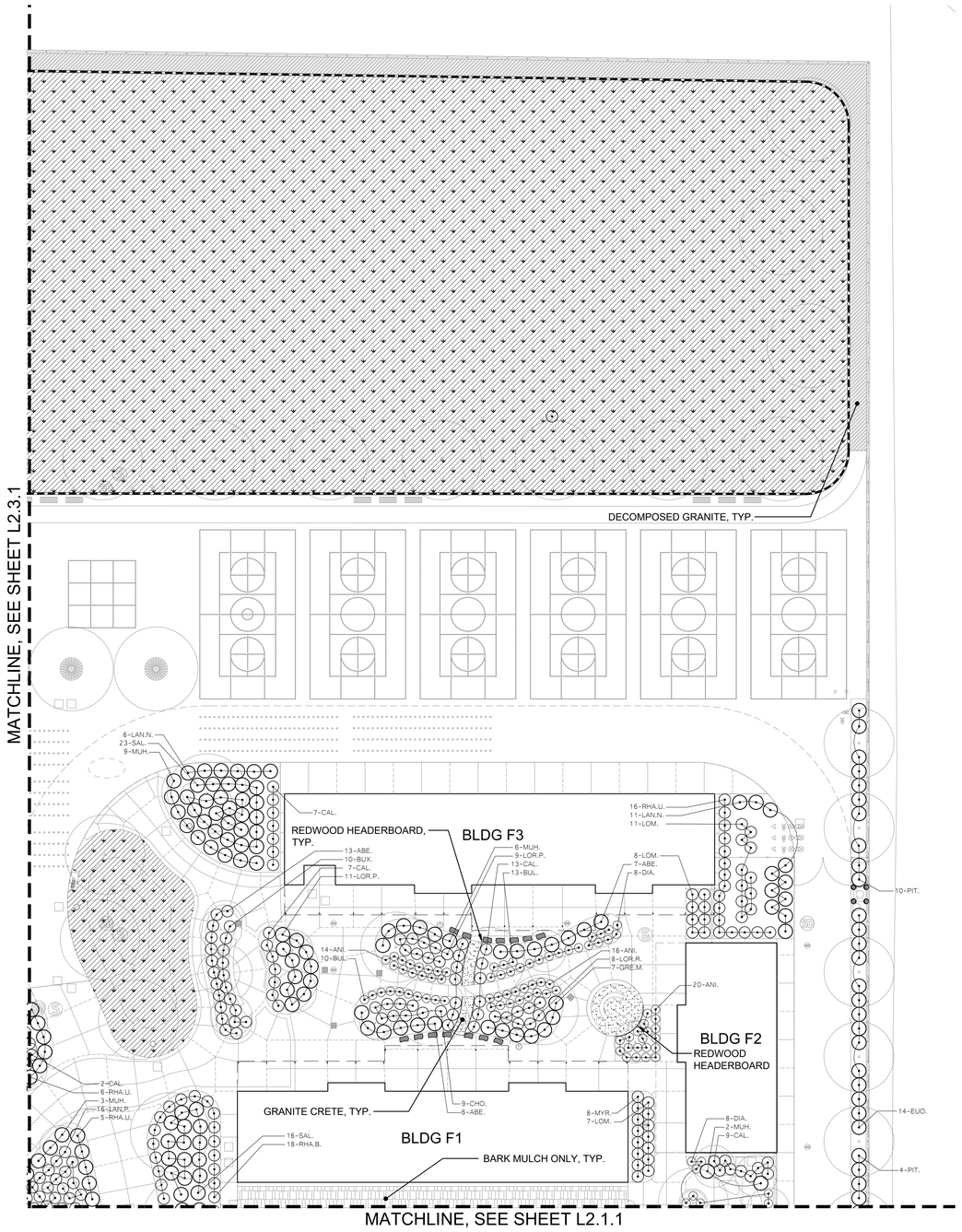


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**AGENCY APPROVAL:**

LODI USD

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

**ISSUE**

| Δ | DESCRIPTION | DATE |
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**KEYNOTES**

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

LICENSED LANDSCAPE ARCHITECT — CHRISTOPHER HOLLIS MALICK — 5453 — 12/03/26 — 7/31/27 — STATE OF CALIFORNIA

FACILITY:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL**
**1305 E VINE ST,**
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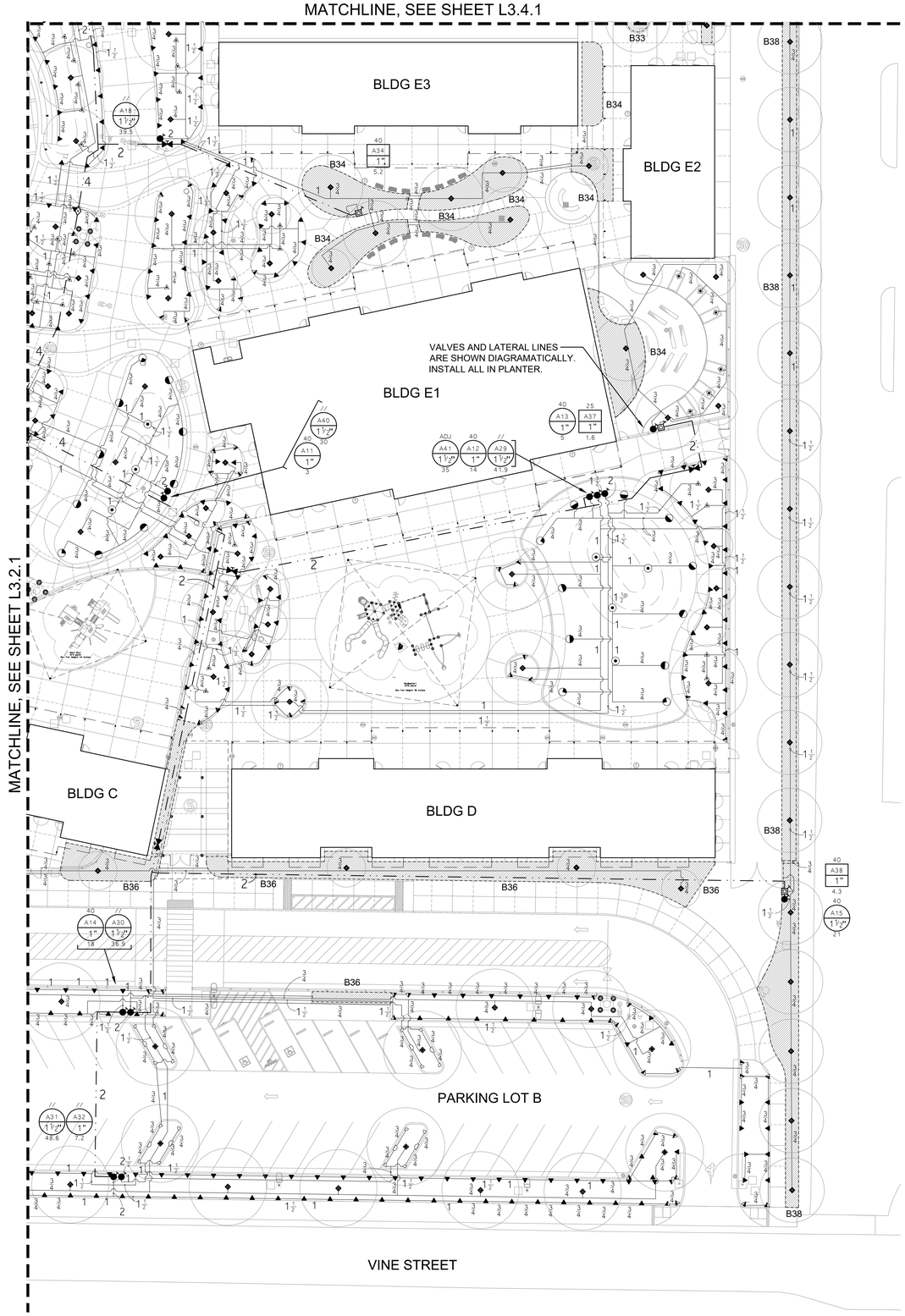


## KEY

## SPRINKLER IRRIGATION LEGEND

**AUTOMATIC CONTROLLER 'A' - IRRIGATING CAMPUS AND PARKING LOTS:**
RAINBIRD ESP-LXME - 48 STATIONS
MODEL#: (CAB-RB3-48/SP/IQ-ETH/RSDE/IFS-400C/3200-400
CONTACT KIM GOLDENSTEIN AT IMPERIAL TECH SERVICES: 619-380-1833, kimgoldenstein1@gmail.com
CONTROLLER TO BE ASSEMBLED IN STAINLESS STEEL TOP ENTRY STRONGBOX ENCLOUSRE WITH ETHERNET MODEM, AND SURGE PROTECTION.

COORDINATE 110 SERVICE AND POWER CONNECTION WITH ELECTRICAL SUB-CONTRACTOR.
COORDINATE ETHERNET CONNECTION WITH THE ELECTRICAL SUB-CONTRACTOR.

**AUTOMATIC CONTROLLER 'B' - IRRIGATING FIELD:**
RAINBIRD ESP-LXME - 12 STATIONS
MODEL#: (CAB-RB3-12/SP/IQ-ETH/RSDE/IFS-400C/3200-400
CONTACT KIM GOLDENSTEIN AT IMPERIAL TECH SERVICES: 619-380-1833, kimgoldenstein1@gmail.com
CONTROLLER TO BE ASSEMBLED IN STAINLESS STEEL TOP ENTRY STRONGBOX ENCLOUSRE WITH ETHERNET MODEM, AND SURGE PROTECTION.

COORDINATE 110 SERVICE AND POWER CONNECTION WITH ELECTRICAL SUB-CONTRACTOR.
COORDINATE ETHERNET CONNECTION WITH THE ELECTRICAL SUB-CONTRACTOR.

**POINT OF CONNECTION:**
STATIC WATER PRESSURE PRIOR TO WATER METER: 44 PSI
DYNAMIC WATER PRESSURE AFTER IRRIGATION BACKFLOW DEVICE: 30 PSI
IRRIGATION SYSTEM OPERATING WATER PRESSURE: 40 PSI
MAXIMUM FLOW IS 90 GPM

CONTRACTOR SHALL LOCATE BACKFLOW PREVENTION DEVICE INDICATED ON CIVIL SHEETS.
CONNECT AT THIS POINT AND EXTEND AS INDICATED ON DRAWINGS.

**BOOSTER PUMP:**
BOOSTER PUMP SHALL BE BY V-POWER EQUIPMENT, INC.
MODEL#: 190MTW1119Z025-1-10VFD-460-3
CONTACT CHRIS MURRAY AT 916-266-6743.

INLET PRESSURE: 27 PSI
OUTLET PRESSURE: 76 PSI
MIN/MAX WATER DEMAND: 30GPM/190GPM
POWER INPUT: 480V, 3 PHASE

**MASTER VALVE/FLOW SENSOR ASSEMBLY:**
MASTER VALVE = 3" NORMALLY OPEN GRISWOLD #2160N
FLOW SENSOR = BADGER 200SS INSERT IN 3" SADDLE
FLOW SENSOR TO BE CONNECTED TO AUTOMATIC CONTROLLER WITH UF-14 WIRE.
MASTER VALVE TO BE CONNECTED TO AUTOMATIC CONTROLLER WITH UF-14 WIRE.

**GATE VALVE:**
TYPE:
2" SIZE AND LARGER: 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:
4" SIZE : ASTM D2241 SDR 21, 200 PSI, RUBBER GASKETED
3" 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 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:**
8.2/0.70 — FULL CIRCLE
RAINBIRD: 6504-PC-SS-8 (GREEN NOZZLE)
GPM/IN/HR (60 PSI)
8.2/0.70 — THREE QUARTER CIRCLE
RAINBIRD: 6504-PC-SS-8 (GREEN NOZZLE)
GPM/IN/HR (60 PSI)
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RAINBIRD: 6504-PC-SS-8 (GREEN NOZZLE)
GPM/IN/HR (60 PSI)
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RAINBIRD: 6504-PC-SS-8 (GREEN NOZZLE)
GPM/IN/HR (60 PSI)

**LAWN POP-UP INTERMEDIATE ROTOR HEADS:**
3.8/0.68 — FULL CIRCLE
RAINBIRD: 5006-MPR-25-F-SS (RED NOZZLE)
GPM/IN/HR (45 PSI)
1.9/0.70 — HALF CIRCLE
RAINBIRD: 5006-MPR-25-H-SS (RED NOZZLE)
GPM/IN/HR (45 PSI)
1.0/0.71 — QUARTER CIRCLE
RAINBIRD: 5006-MPR-25-H-SS (RED NOZZLE)
GPM/IN/HR (45 PSI)

**SHRUB POP-UP SPRAY HEADS:**
1.1/.72 .84/.76 .56/.76 .28/.76 — RAINBIRD: RD12-S-P30-F BODY (30 PSI REGULATION AND FLOW SHIELD)
R-VAN 14' FULL, 210 DEGREE, HALF, AND QUARTER SPRAY PATTERNS.
GPM/IN/HR
1.2/2.0 .59/2.0 .29/2.0 — RAINBIRD: RD12-S-P30-F BODY (30 PSI REGULATION AND FLOW SHIELD)
RAINBIRD: HE-VAN-8 FULL, HALF, AND QUARTER SPRAY PATTERNS.
GPM/IN/HR

**TREE BUBBLER HEADS (TWO HEADS PER TREE):**
RAINBIRD: RWSMB-1402 WITH INLINE CHECK VALVE.

**SHRUB BUBBLER:**
B1
EMITTER TO BE RAINBIRD XBT-20 (2 GPH) WITH PCDIFFUSER BUG CAP.
IH RISER TO BE BURIED A MINIMUM DEPTH OF 3" BELOW GRADE. HUNTER IH-RISER
EXTENSION TO EACH BUBBLER NOT SHOWN. SEE DETAIL 1/L5.1.1 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

**GARDEN DRIP EMITTER:**
RAINBIRD: XBD-080 WITH 50 DBC-025, 50 1/4" TUBING STAKE, AND 200' XQ 1/4" DISTRIBUTION TUBING
INSTALL 2.0 GPH XERI-BUG EMITTER CAPS ON BARBED EMITTER OUTLETS (48 REQUIRED)

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

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

**INDICATES CONTROL VALVE:**
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GALLONS: GPM

SEE SHEET L3.3.1 FOR PRE-CONSTRUCTION SPRINKLER IRRIGATION NOTES AND SPRINKLER IRRIGATION NOTES.

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

**AGENCY APPROVAL:**

LODI USD

DESIGN FOR GOOD
HMC Architects
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

REGISTERED LANDSCAPE ARCHITECT 5453 — 12/03/26 — 7/31/27 — STATE OF CALIFORNIA

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**

**DSA SUBMITTAL**

DATE: **2025.12.09** | CLIENT PROJ NO:

SHEET:

# L3.1.1

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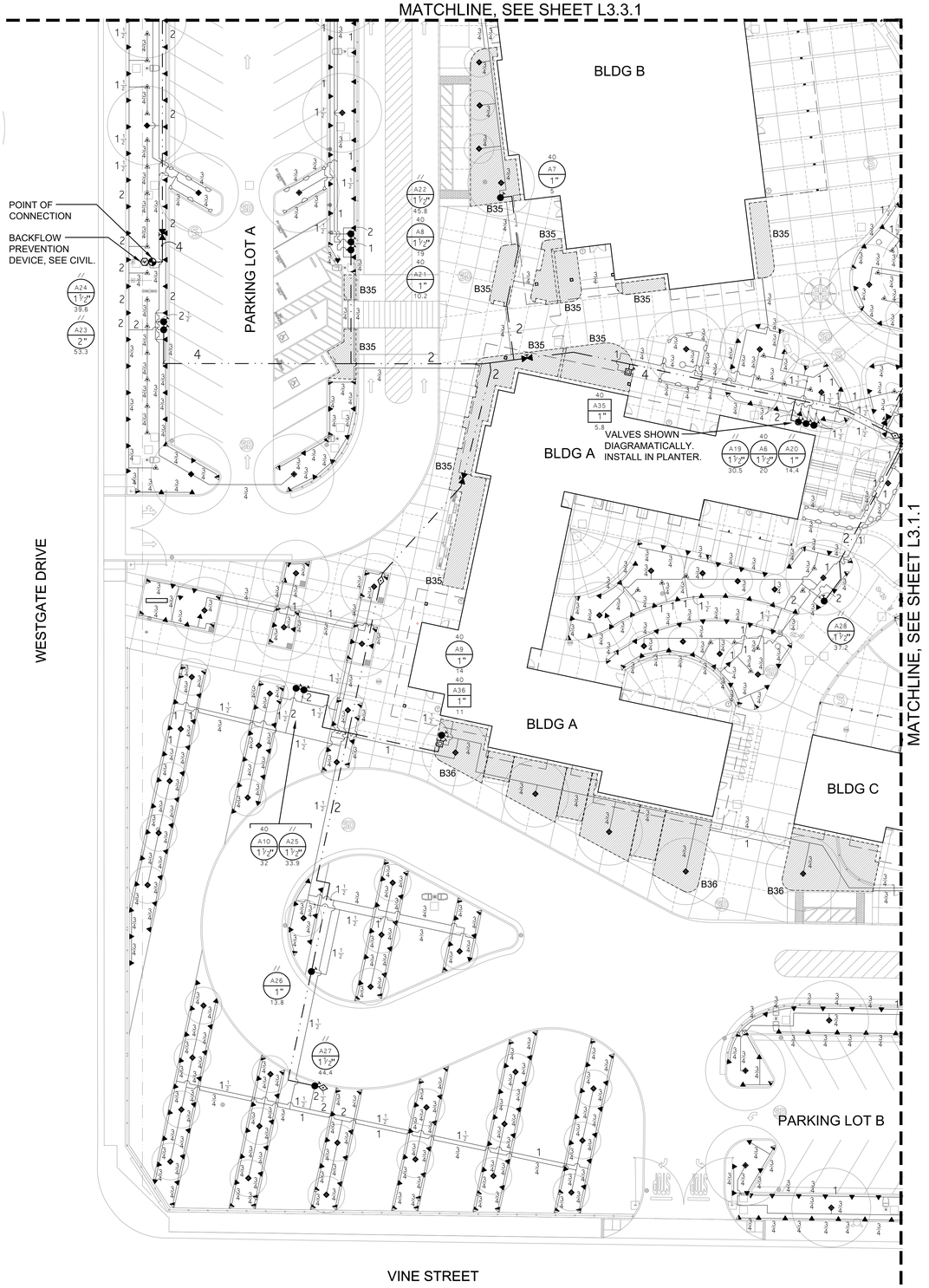


## KEY

## SPRINKLER IRRIGATION LEGEND

**AUTOMATIC CONTROLLER 'A' - IRRIGATING CAMPUS AND PARKING LOTS:**
RAINBIRD ESP-LXME - 48 STATIONS
MODEL#: ICAB-RB3-48/SP/IQ-ETH/RSDE/IFS-400C/3200-400
CONTACT KIM GOLDENSTEIN AT IMPERIAL TECH SERVICES: 619-380-1833, kimgoldenstein1@gmail.com
CONTROLLER TO BE ASSEMBLED IN STAINLESS STEEL TOP ENTRY STRONGBOX ENCLOUSRE WITH ETHERNET MODEM, AND SURGE PROTECTION.

COORDINATE 110 SERVICE AND POWER CONNECTION WITH ELECTRICAL SUB-CONTRACTOR.
COORDINATE ETHERNET CONNECTION WITH THE ELECTRICAL SUB-CONTRACTOR.

**AUTOMATIC CONTROLLER 'B' - IRRIGATING FIELD:**
RAINBIRD ESP-LXME - 12 STATIONS
MODEL#: ICAB-RB-12/SP/IQ-ETH/RSDE/IFS-400C/3200-400
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DYNAMIC WATER PRESSURE AFTER IRRIGATION BACKFLOW DEVICE: 30 PSI
IRRIGATION SYSTEM OPERATING WATER PRESSURE: 40 PSI
MAXIMUM FLOW IS 90 GPM

CONTRACTOR SHALL LOCATE BACKFLOW PREVENTION DEVICE INDICATED ON CIVIL SHEETS.
CONNECT AT THIS POINT AND EXTEND AS INDICATED ON DRAWINGS.

**BOOSTER PUMP:**
BOOSTER PUMP SHALL BE BY V-POWER EQUIPMENT, INC.
MODEL#: 19GMTW1119Z025-1-10VFD-460-3
CONTACT CHRIS MURRAY AT 916-266-6743.

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8.2@70 — FULL CIRCLE
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GPM:IN/HR
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RAINBIRD: HE-VAN-8 FULL, HALF, AND QUARTER SPRAY PATTERNS.
GPM:IN/HR

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B1
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SEE SHEET L3.3.1 FOR PRE-CONSTRUCTION SPRINKLER IRRIGATION NOTES AND SPRINKLER IRRIGATION NOTES.

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

**AGENCY APPROVAL:**

LODI USD

HMC Architects
DESIGN FOR GOOD
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**KEYNOTES**

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Sacramento, CA 95816
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LICENSED LANDSCAPE ARCHITECT 5453 — 12/03/26 — 7/31/27 — STATE OF CALIFORNIA

FACILITY:
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**1305 E VINE ST,**
**LODI, CA 95240**

PROJECT:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1**

SHEET NAME:
**SPRINKLER IRRIGATION PLAN**

**DSA SUBMITTAL**

DATE: **2025.12.09** | CLIENT PROJ NO:

SHEET:

# L3.2.1

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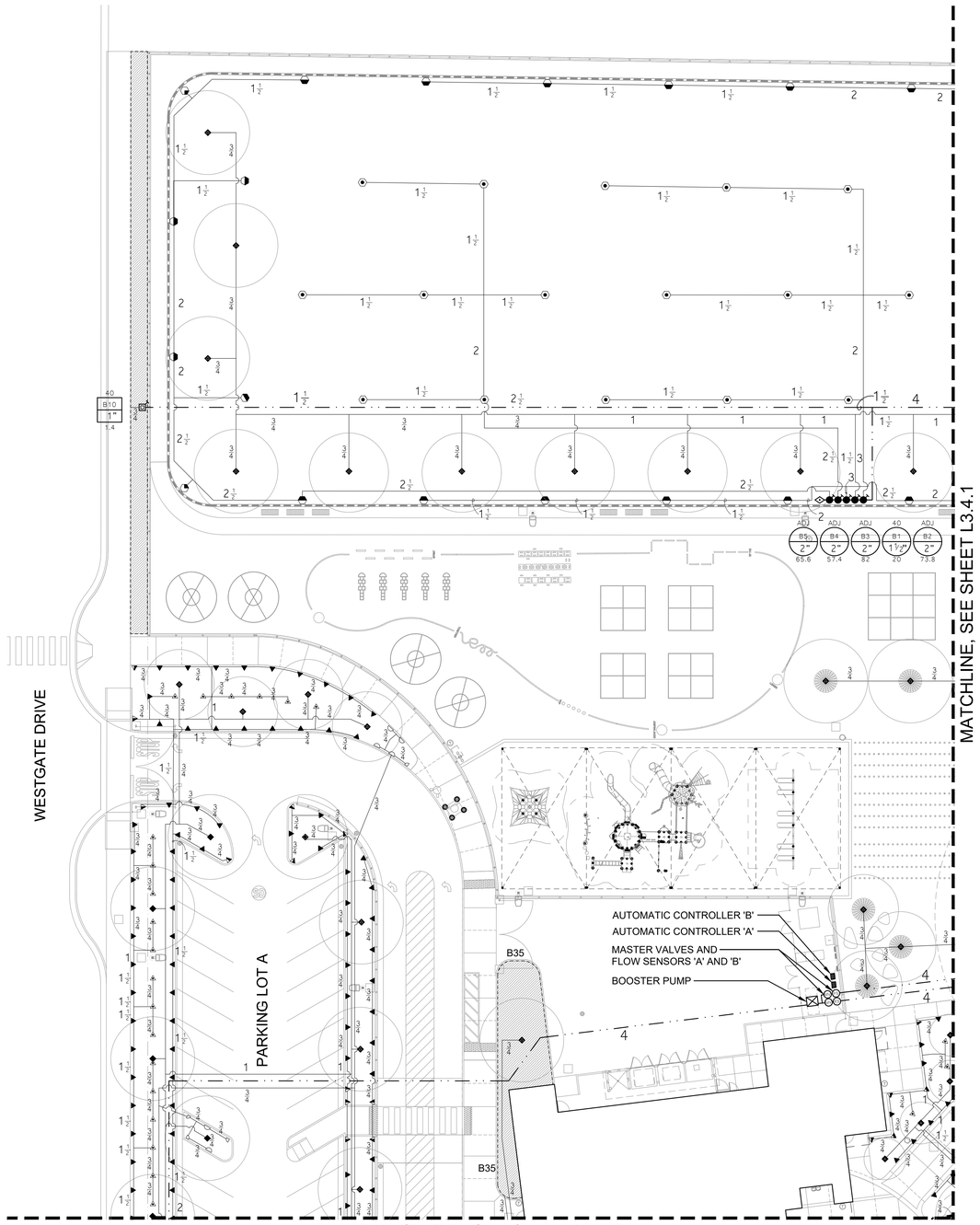


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MODEL#: ICA6-RB-R3-12/SP/IQ-ETH/RSDE/IFS-400C/3200-400
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(/ / IF NOT SPECIFIED, ADJ IF ADJUSTABLE)
STATION NUMBER
VALVE SIZE
GALLONS: GPM

**INDICATES CONTROL VALVE:**
40 A1 1" 00
PRESSURE REGULATOR: PSI SHOWN FOR IN-LINE PRESSURE REGULATOR
(/ / IF NOT SPECIFIED, ADJ IF ADJUSTABLE)
STATION NUMBER
VALVE SIZE
GALLONS: GPM
A2 1" 00

## PRE-CONSTRUCTION SPRINKLER IRRIGATION NOTES

1. PRIOR TO START OF CONSTRUCTION CONTRACTOR REQUIRED TO CONTACT GROUNDS MANAGER AT GANTNER ELEMENTARY SCHOOL TO SET UP A MEETING ON SITE TO OPERATE THE EXISTING SPRINKLER IRRIGATION SYSTEM AND DISCUSS THE MODIFICATIONS THAT ARE TO BE MADE TO THE EXISTING SYSTEM TO ACCOMMODATE FOR THE NEW CONSTRUCTION.
2. CONTRACTOR TO OPERATE AND PROGRAM EXISTING SPRINKLER IRRIGATION SYSTEM THAT IS TO REMAIN IN ORDER TO PROVIDE WATER TO THE EXISTING LANDSCAPE TO REMAIN.
3. CONTRACTOR TO REMOVE ALL EXISTING PIPE AND SPRINKLER HEADS WHEN THEY ARE IN NEW PLANTING AREAS.
4. CONTRACTOR TO RESTORE AND REPAIR ANY EXISTING SPRINKLER IRRIGATION SYSTEM OR EXISTING LANDSCAPE WHICH IS IN AREAS TO REMAIN THAT IS DAMAGED BY NEW WORK.
5. ALL WORK TO EXISTING SPRINKLER IRRIGATION SYSTEM TO BE COMPLETED PRIOR TO SITE DEMOLITION.

## 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.
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.

## SPRINKLER IRRIGATION NOTES

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.

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

PLEASE RECYCLE

**AGENCY APPROVAL:**

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HMC Architects
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**KEYNOTES**

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25-31

MTW group
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2707 K Street, Suite 201
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916 369-3990

CHRISTOPHER HOLLIS MURRAY — 5453 — PROFESSIONAL LANDSCAPE ARCHITECT — 12/03/26 — 7/31/27 — STATE OF CALIFORNIA

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**

**DSA SUBMITTAL**

DATE: **2025.12.09** | CLIENT PROJ NO:

SHEET:

# L3.3.1

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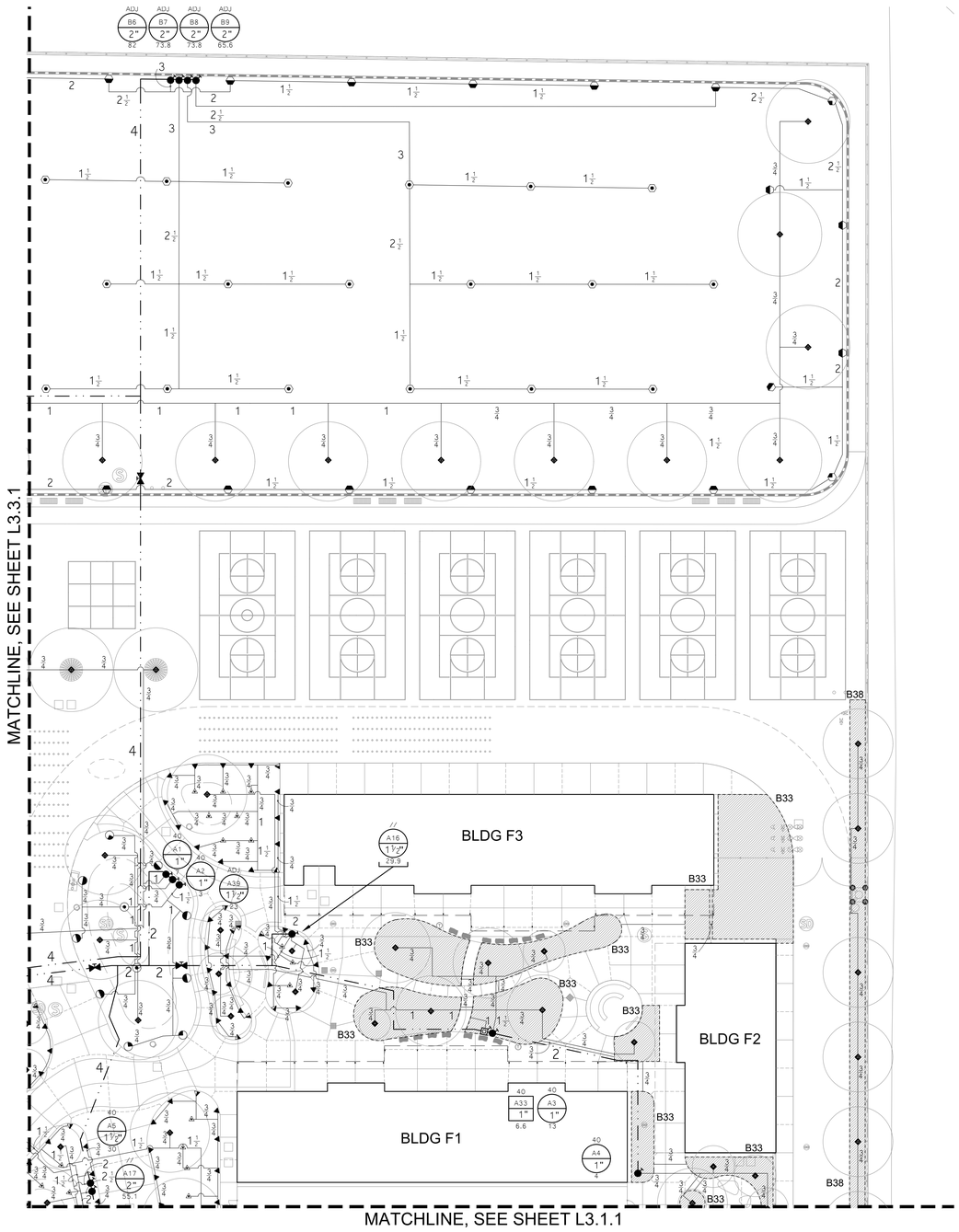


## KEY

## SPRINKLER IRRIGATION LEGEND

**AUTOMATIC CONTROLLER 'A' - IRRIGATING CAMPUS AND PARKING LOTS:**
RAINBIRD ESP-LXME - 48 STATIONS
MODEL#: ICAB-RB3-48/SP/IQ-ETH/RSDE/IFS-400C/3200-400
CONTACT KIM GOLDENSTEIN AT IMPERIAL TECH SERVICES: 619-380-1833, kimgoldenstein1@gmail.com
CONTROLLER TO BE ASSEMBLED IN STAINLESS STEEL TOP ENTRY STRONGBOX ENCLOUSRE WITH ETHERNET MODEM, AND SURGE PROTECTION.

COORDINATE 110 SERVICE AND POWER CONNECTION WITH ELECTRICAL SUB-CONTRACTOR.
COORDINATE ETHERNET CONNECTION WITH THE ELECTRICAL SUB-CONTRACTOR.

**AUTOMATIC CONTROLLER 'B' - IRRIGATING FIELD:**
RAINBIRD ESP-LXME - 12 STATIONS
MODEL#: ICAB-RB-R3-12/SP/IQ-ETH/RSDE/IFS-400C/3200-400
CONTACT KIM GOLDENSTEIN AT IMPERIAL TECH SERVICES: 619-380-1833, kimgoldenstein1@gmail.com
CONTROLLER TO BE ASSEMBLED IN STAINLESS STEEL TOP ENTRY STRONGBOX ENCLOUSRE WITH ETHERNET MODEM, AND SURGE PROTECTION.

COORDINATE 110 SERVICE AND POWER CONNECTION WITH ELECTRICAL SUB-CONTRACTOR.
COORDINATE ETHERNET CONNECTION WITH THE ELECTRICAL SUB-CONTRACTOR.

**POINT OF CONNECTION:**
STATIC WATER PRESSURE PRIOR TO WATER METER: 44 PSI
DYNAMIC WATER PRESSURE AFTER IRRIGATION BACKFLOW DEVICE: 30 PSI
IRRIGATION SYSTEM OPERATING WATER PRESSURE: 40 PSI
MAXIMUM FLOW IS 90 GPM

CONTRACTOR SHALL LOCATE BACKFLOW PREVENTION DEVICE INDICATED ON CIVIL SHEETS.
CONNECT AT THIS POINT AND EXTEND AS INDICATED ON DRAWINGS.

**BOOSTER PUMP:**
BOOSTER PUMP SHALL BE BY V-POWER EQUIPMENT, INC.
MODEL#: 19GMTW1119Z025-1-10VFD-460-3
CONTACT CHRIS MURRAY AT 916-266-6743.

INLET PRESSURE: 27 PSI
OUTLET PRESSURE: 76 PSI
MIN/MAX WATER DEMAND: 30GPM/190GPM
POWER INPUT: 480V, 3 PHASE

**MASTER VALVE/FLOW SENSOR ASSEMBLY:**
MASTER VALVE = 3" NORMALLY OPEN GRISWOLD #2160N
FLOW SENSOR = BADGER 200SS INSERT IN 3" SADDLE
FLOW SENSOR TO BE CONNECTED TO AUTOMATIC CONTROLLER WITH UF-14 WIRE.
MASTER VALVE TO BE CONNECTED TO AUTOMATIC CONTROLLER WITH UF-14 WIRE.

**GATE VALVE:**
TYPE:
2" SIZE AND LARGER: 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:
4" SIZE : ASTM D2241 SDR 21, 200 PSI, RUBBER GASKETED
3" 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 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:**
8.2\0.70 FULL CIRCLE
RAINBIRD: 6504-PC-SS-8 (GREEN NOZZLE)
GPM/N/HR (60 PSI)
8.2\0.70 THREE QUARTER CIRCLE
RAINBIRD: 6504-PC-SS-8 (GREEN NOZZLE)
GPM/N/HR (60 PSI)
8.2\0.70 HALF CIRCLE
RAINBIRD: 6504-PC-SS-8 (GREEN NOZZLE)
GPM/N/HR (60 PSI)
8.2\0.70 QUARTER CIRCLE
RAINBIRD: 6504-PC-SS-8 (GREEN NOZZLE)
GPM/N/HR (60 PSI)

**LAWN POP-UP INTERMEDIATE ROTOR HEADS:**
3.8\0.68 FULL CIRCLE
RAINBIRD: 5006-MPR-25-F-SS (RED NOZZLE)
GPM/N/HR (45 PSI)
1.8\0.70 HALF CIRCLE
RAINBIRD: 5006-MPR-25-H-SS (RED NOZZLE)
GPM/N/HR (45 PSI)
1.0\0.71 QUARTER CIRCLE
RAINBIRD: 5006-MPR-25-H-SS (RED NOZZLE)
GPM/N/HR (45 PSI)

**SHRUB POP-UP SPRAY HEADS:**
1.1\.72 .84\.76 .56\.76 .28\.76
RAINBIRD: RD12-S-P30-F BODY (30 PSI REGULATION AND FLOW SHIELD)
R-VAN 14' FULL, 210 DEGREE, HALF, AND QUARTER SPRAY PATTERNS.
GPM/N/HR
1.2\2.0 .59\2.0 .29\2.0
RAINBIRD: RD12-S-P30-F BODY (30 PSI REGULATION AND FLOW SHIELD)
RAINBIRD: HE-VAN-8 FULL, HALF, AND QUARTER SPRAY PATTERNS.
GPM/N/HR

**TREE BUBBLER HEADS (TWO HEADS PER TREE):**
RAINBIRD: RWSMB-1402 WITH INLINE CHECK VALVE.

**SHRUB BUBBLER:**
B1
EMITTER TO BE RAINBIRD XBT-20 (2 GPH) WITH PCDIFFUSER BUG CAP.
IH RISER TO BE BURIED A MINIMUM DEPTH OF 3" BELOW GRADE, HUNTER IH-RISER EXTENSION TO EACH BUBBLER NOT SHOWN. SEE DETAIL 1/L5.1.1 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

**GARDEN DRIP EMITTER:**
RAINBIRD: XBD-080 WITH 50 DBC-025, 50 1/4" TUBING STAKE, AND 200' XQ 1/4" DISTRIBUTION TUBING
INSTALL 2.0 GPH XERI-BUG EMITTER CAPS ON BARBED EMITTER OUTLETS (48 REQUIRED)

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

**INDICATES DRIP CONTROL VALVE:**
40 A1 1" 00
PRESSURE REGULATOR: PSI SHOWN FOR IN-LINE PRESSURE REGULATOR
(// IF NOT SPECIFIED, ADJ IF ADJUSTABLE)
STATION NUMBER
VALVE SIZE
GALLONS: GPM

**INDICATES CONTROL VALVE:**
A2 1" 00
PRESSURE REGULATOR: PSI SHOWN FOR IN-LINE PRESSURE REGULATOR
(// IF NOT SPECIFIED, ADJ IF ADJUSTABLE)
STATION NUMBER
VALVE SIZE
GALLONS: GPM

## PRE-CONSTRUCTION SPRINKLER IRRIGATION NOTES

1. PRIOR TO START OF CONSTRUCTION CONTRACTOR REQUIRED TO CONTACT GROUNDS MANAGER AT GANTNER ELEMENTARY SCHOOL TO SET UP A MEETING ON SITE TO OPERATE THE EXISTING SPRINKLER IRRIGATION SYSTEM AND DISCUSS THE MODIFICATIONS THAT ARE TO BE MADE TO THE EXISTING SYSTEM TO ACCOMMODATE FOR THE NEW CONSTRUCTION.
2. CONTRACTOR TO OPERATE AND PROGRAM EXISTING SPRINKLER IRRIGATION SYSTEM THAT IS TO REMAIN IN ORDER TO PROVIDE WATER TO THE EXISTING LANDSCAPE TO REMAIN.
3. CONTRACTOR TO REMOVE ALL EXISTING PIPE AND SPRINKLER HEADS WHEN THEY ARE IN NEW PLANTING AREAS.
4. CONTRACTOR TO RESTORE AND REPAIR ANY EXISTING SPRINKLER IRRIGATION SYSTEM OR EXISTING LANDSCAPE WHICH IS IN AREAS TO REMAIN THAT IS DAMAGED BY NEW WORK.
5. ALL WORK TO EXISTING SPRINKLER IRRIGATION SYSTEM TO BE COMPLETED PRIOR TO SITE DEMOLITION.

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

REGISTERED LANDSCAPE ARCHITECT 5453 — 12/03/26 — 7/31/27 — STATE OF CALIFORNIA

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**

**DSA SUBMITTAL**

DATE: **2025.12.09** | CLIENT PROJ NO:

SHEET:

**L3.4.1**

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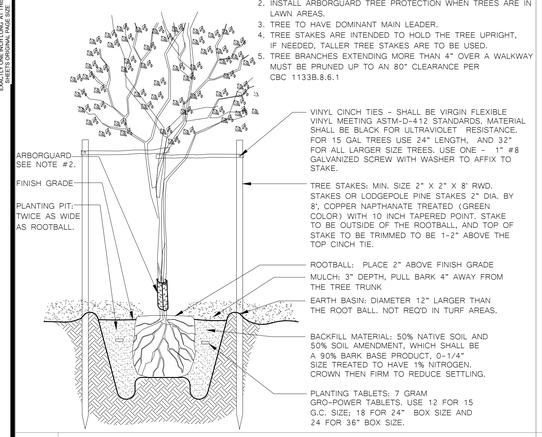
IF THE LINE BROWN ABOVE IS EXACTLY 1" LONG, THE PLANS ARE SHEETS ORIGINAL IMAGE SIZE

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

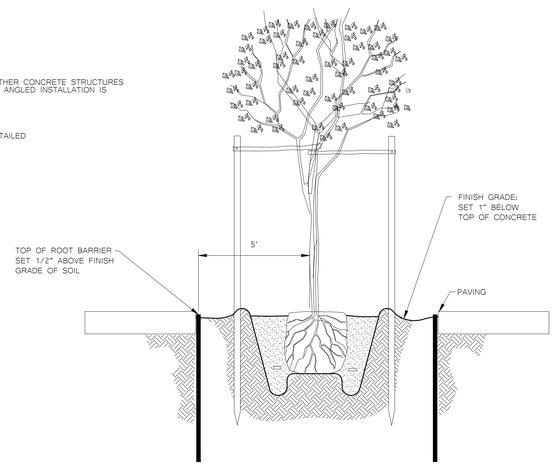
NOTE:
1. SEE TREE PLANTING DETAIL FOR ADDITIONAL INFORMATION.

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.

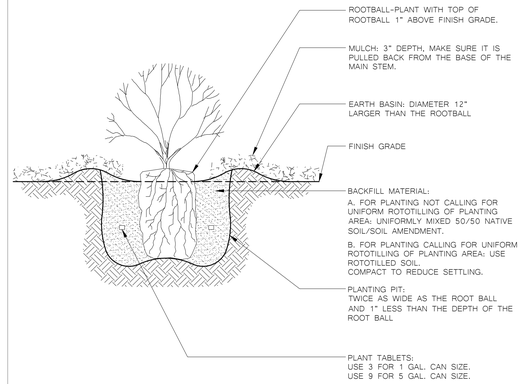
ROOT BARRIER
BY: DEEP ROOT PARTNERS OR NDS INC. OR APPROVED EQ.

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



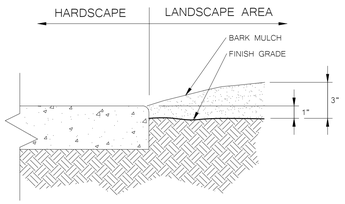

2 ROOT BARRIER CONTROL DETAIL

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



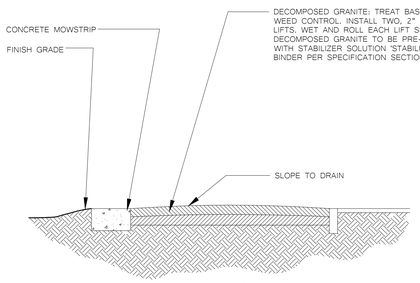

3 SHRUB PLANTING DETAIL

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



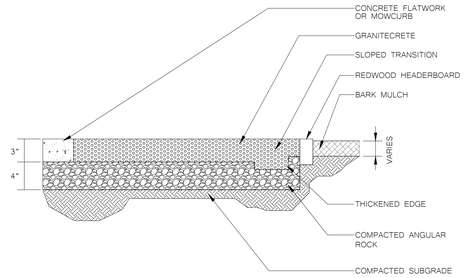

4 LANDSCAPE GRADE ADJACENT TO HARDSCAPE DETAIL

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 GOLD IN COLOR.
5. THE MATERIAL SHALL BE OF SUCH NATURE THAT IT CAN BE COMPACTED READILY UNDER WATERING AND ROLLING.




SECTION

# DECOMPOSED GRANITE/BINDER DETAIL




6 GRANITECRETE FOR ACCESSIBLE PATH

AGENCY APPROVAL:

LODI USD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PROJECT:
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SHEET NAME:
**LANDSCAPE PLANTING DETAILS**

**DSA SUBMITTAL**

DATE: **2025.12.09** | CLIENT PROJ NO:

SHEET:

**L4.1.1**

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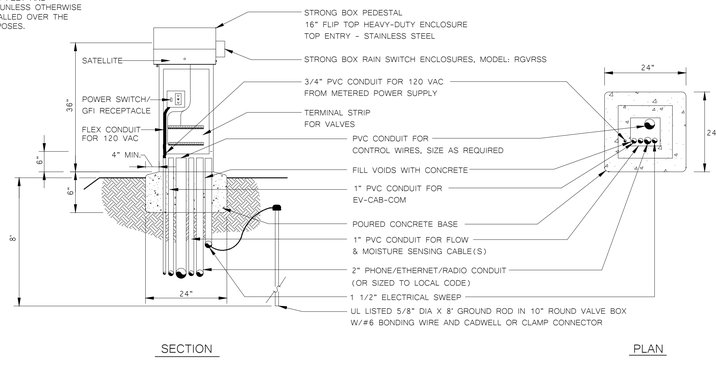
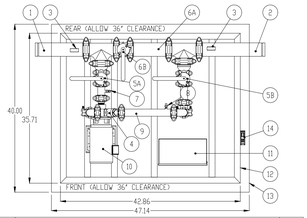
THE LINE SHOWN ABOVE IS EXACTLY 1" LONG ON ALL PLANS SHEETS ORIGINAL PAGE SIZE

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.




1 AUTOMATIC CONTROLLER - TOP ENTRY PEDESTAL DETAIL

NOTE
1. BOOSTER PUMP SHALL BE BY V. POWER EQUIPMENT, INC.
2. ALL INSTALLATION SHALL BE AS PER MANUFACTURERS RECOMMENDATIONS.
3. CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES SO WORK SCHEDULE IS MAINTAINED.
4. ALL PIPE ABOVE GROUND SHALL BE: SEE SPECIFICATIONS.
5. SHALL CONTACT "CHRIS MURRAY", (916-266-6743) FOR ORDERING INFORMATION.
6. FOLLOW INSTRUCTIONS INCLUDED WITH UNIT FOR STARTUP.
7. BOOSTER PUMP TO BE SET LEVEL AND WITH A HOUSEKEEPING CONCRETE PAD SET 1" ABOVE SURROUNDING GRADE.




| ITEM NO. | CUSTOMFLOW REFERENCE NUMBER: 150MTW11592025-1-10VF3-460-3 | QTY. |
|---|---|---|
| 1 | 4" SUCTION W/ 90 ELBOW GROOVED DROP PIPE CONNECTION | 1 |
| 2 | 4" DISCHARGE W/ 90 ELBOW GROOVED DROP PIPE CONNECTION | 1 |
| 3 | 2-1/2" MIXTURE VALVE | 2 |
| 4 | 3" ANTI-TEE GROOVED CHECK VALVE | 1 |
| 5A | 3"dia 770-3 GROOVED BUTTERFLY VALVE FOR LINE ISOLATION | 1 |
| 5B | 3"dia 770-3 GROOVED BUTTERFLY VALVE FOR LINE ISOLATION | 1 |
| 6A | 3" BYPASS FOR OPERATION DURING MAINTENANCE | 1 |
| 6B | 4"dia 770-3 GROOVED BUTTERFLY VALVE WITH YELLOW HANDLE FOR BYPASS | 1 |
| 7 | CUSTOM TEMPERATURE SWITCH PUMP | 1 |
| 8 | EFFECTOR PRESSURE TRANSDUCER RNGE 0-200 PSI | 1 |
| 9 | 1¼" NPT PLUG | 1 |
| 10 | BERKELEY PUMP B2TPMG WITH IMPACT IMPELLER RATED FOR 150 GPM AT 50 PSI INCREASE WITH 10HP 3PHASE, 1760 RPM, 208-230/460V | 1 |
| 11 | PUMP CONTROL PANEL MODEL CF460-3-10-ML, WITH MOTORISTER FR-D740-060-NA VFD, 40-AMP CIRCUIT BREAKER WITH ADD'L THREE-PHASE INPUT & OUTPUT TERMINALS, 120 V4 CONTROL TRANSFORMER, RELAY-RESET FOR CUSTOM TEMPERATURE SWITCH | 1 |
| 12 | ALUMINUM 2 DOOR ENCLOSURE. SIZE 66"x56"x14", FLANGED BODY, POWDER COATED DARK GREEN COLOR. ALUMINUM BRACKETS AND STEEL HARDWARE | 1 |
| 13 | LEVEL CONCRETE PAD SIZE 66"x56", 4" THICK AND 1" ABOVE SURROUNDING GRADE. TOOL EDGES 1/2" NOTE THE INLET/OUTLET ARE LOCATED ON OPPOSITE SIDES. ALLOW 36" CLEARANCE IN FRONT AND REAR FOR SERVICE. | 1 |
| 14 | HOOD COVER & 120 CFM SKION COOLING FAN | 1 |
| NOTES | THREE-PHASE 460V ELECTRICAL WIRES MUST BE RUN IN CONDUIT. MOTOR MUST BE GROUNDED. VFD MUST BE GROUND AND CONTROL WIRES ARE REQUIRED. THE VFD CONNECTS AND WIRES ARE CONNECTED BEFORE PANEL TERMINALS INSIDE THE ENCLOSURE. V-POWER EQUIPMENT TO PROVIDE CHIP ASSEMBLY, STARTUP, TRAINING AND OWNERS MANUAL. PHONE (916) 266-6743, 908 WEST CAPITOL AVE, WEST SACRAMENTO, CA 95605. | |

60"X50" CUSTOMFLOW BOOSTER PACKAGE INSTALLATION

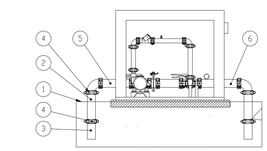
A) CONCRETE PAD CONSTRUCTION
1) Determine location and grade for the site.
2) Form and pour a level concrete slab size 66" X 56", 4" thick.
Note: Slab surface 1" above grade, see slab detail for electrical conduit locations.
3) Allow for 36" in front and rear of the enclosure for service access.
4) Mount and level your Customflow booster on the concrete pad centering the unit allowing a 3" apron around the outside of the enclosure.
5) Anchor all four corners through the attached anchor brackets.
* Recommend using a wedge type anchor 3/8" X 3" long.

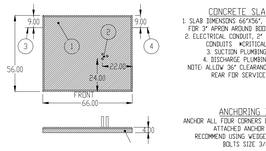
B) PLUMBING CONNECTION
FOR DROP PIPE CONNECTION
1) Connect the supplied grooved galvanized pipes to the suction and discharge 90's with the green couplings provided.
2) Measure and cut the supplied grooved PVC (not longer than 10') gluing the spigot end into your mainline.
3) Connect the PVC grooved end to the galvanized pipe from the booster with the supplied orange couplings.
4) Wrap the orange below grade couplings with 10 MIL tape.
5) Pour thrust blocks as needed.
6) Test for leaks.

FOR FLANGED CONNECTION
1) Connect the supplied grooved flange adaptors to the suction and discharge 90's.
NOTE: The wide edge of the gasket goes towards the grooved flange, no other gaskets necessary.
2)Connect the suction and discharge flanges to the flanged mainline spools (supplied by others).
3) Pour thrust blocks as needed.
4) Test for leaks.

C) ELECTRICAL CONNECTION
1) Land the conduits and wires inside the VFD panel.
2) Confirm the supplied power voltage and phase is correct and matches the specification.
3) Terminate AC line wires at the top of the breaker labeled "CUSTOMER SUPPLY" and ground on the appropriate grounding lug.
4) Terminate 24VAC control wires to the terminal strip labeled "24R1 & 24N1" for pump start control. If a second pump start controller is being used terminate the second control to "24R2 & 24N2".
5) Make sure all wiring is done Per local code requirements.

D) START UP & WARRANTY
1) Verify the booster is installed properly, both plumbing and power connections are complete.
2) Contact V-Power Equipment Inc. for startup.
3) Standard Warranty is three years from date of delivery. For any warranty issues please call V-Power Equipment Inc.




CONCRETE SLAB DETAIL
1. SLAB DIMENSIONS 66"X56", 4" THICK WALLOWS FOR 3" APRON AROUND BOOSTER ENCLOSURE
2. ELECTRICAL CONDUIT, 2" SPACING BETWEEN CONDUITS *CRITICAL LOCATION
3. SUCTION PLUMBING LOCATION
4. DISCHARGE PLUMBING LOCATION
NOTE: ALLOW 36" CLEARANCE IN FRONT AND REAR FOR SERVICE ACCESS.

ANCHORING DETAIL
ANCHOR ALL FOUR CORNERS OF BOOSTER USING ATTACHED ANCHOR POINTS.
RECOMMEND USING WEDGE TYPE ANCHOR BOLTS SIZE 3/8"X3"

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

AGENCY APPROVAL:

LODI USD

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

ISSUE

| Δ | DESCRIPTION | DATE |
|---|---|---|

KEYNOTES

NOTES

25-31

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

CHRISTOPHER HOLLIS MAHONEY 5453 12/03/26 7/31/27 LANDSCAPE ARCHITECT STATE OF CALIFORNIA

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 DETAILS**

**DSA SUBMITTAL**

DATE: **2025.12.09** | CLIENT PROJ NO:

SHEET:
**L4.2.1**

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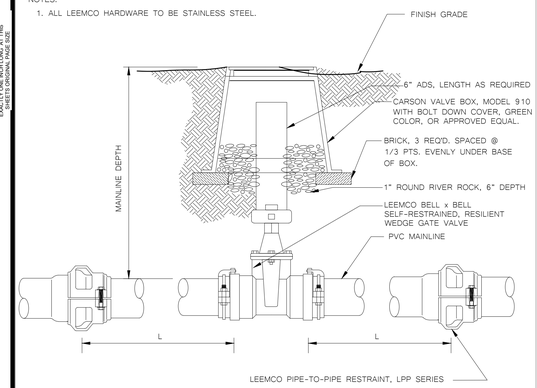
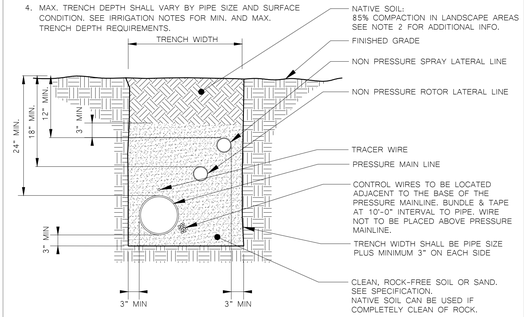
NOTES:
1. ALL LEEMCO HARDWARE TO BE STAINLESS STEEL.



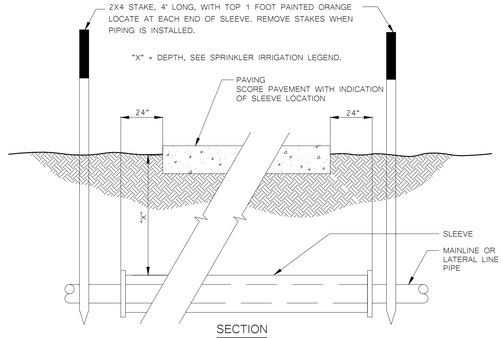

1 LEEMCO SELF-RESTRAINED GATE VALVE DETAIL

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.
4. MAX. TRENCH DEPTH SHALL VARY BY PIPE SIZE AND SURFACE CONDITION. SEE IRRIGATION NOTES FOR MIN. AND MAX. TRENCH DEPTH REQUIREMENTS.




2 PIPE TRENCH DETAIL

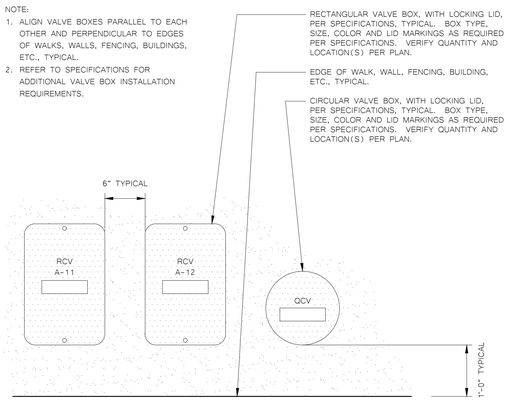
NOTES:
1. ALL PIPE AND FITTINGS TO BE SCHEDULE 40, P.V.C.
2. SLEEVES TO BE LARGE ENOUGH TO ACCEPT THE PIPE AND FITTINGS TO BE ENCASED.
3. PROVIDE A SEPARATE SLEEVE FOR EACH LATERAL OR MAIN CROSSING.
4. PROVIDE A SEPARATE SLEEVE FOR CONTROL WIRE
5. TAPE ALL ENDS WITH DUCT TAPE TO PREVENT ENTRY OF SOIL.




SECTION

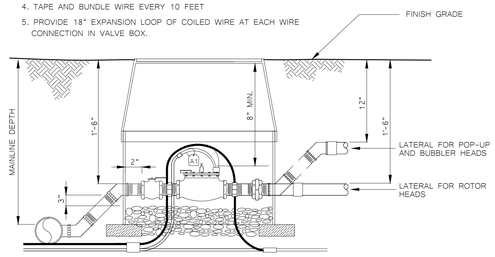
3 SLEEVE DETAIL

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

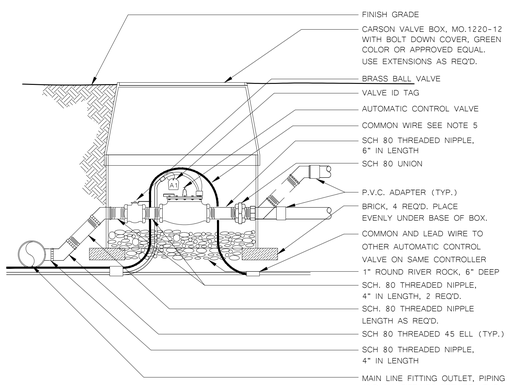
NOTES:
1. SET VALVE BOX LEVEL WITH FINISH GRADE.
2. INSTALL VALVE BOX EXTENSIONS AS REQUIRED.
3. CONNECT ALL WIRES WITH WEATHER TIGHT CONNECTORS. SPLICES IN WIRE SHALL BE PERMITTED ONLY AT VALVE LOCATIONS.
4. TAPE AND BUNDLE WIRE EVERY 10 FEET
5. PROVIDE 18" EXPANSION LOOP OF COILED WIRE AT EACH WIRE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




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

| | |
|---|---|
| POP-UP SPRAY HEADS: | 30 PSI |
| INTERMEDIATE POP-UP ROTOR HEADS: | 50 PSI |
| POP-UP ROTOR HEADS: | 70 PSI |
| BUBBLER HEADS: | 30 PSI |

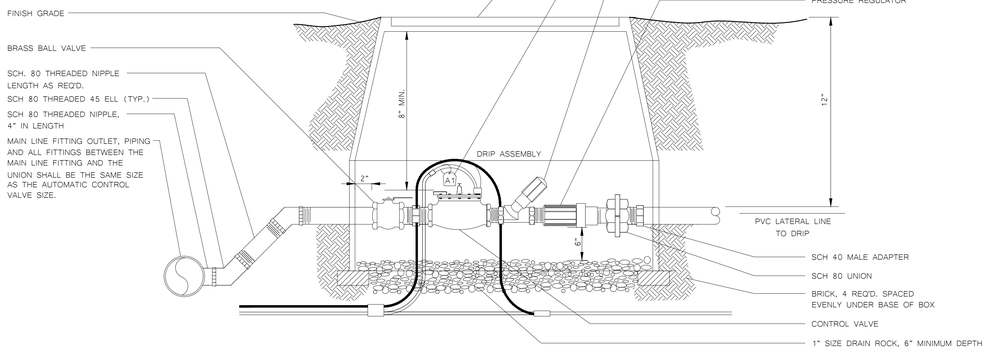
VALVE BOX, SETTINGS, AND CLEARANCES




COMPONENTS INSTALLATION

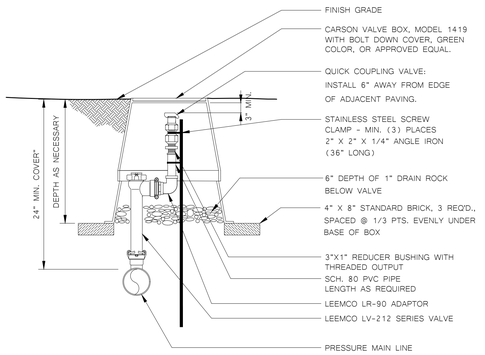
5 AUTOMATIC CONTROL VALVE/BALL VALVE DETAIL

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.



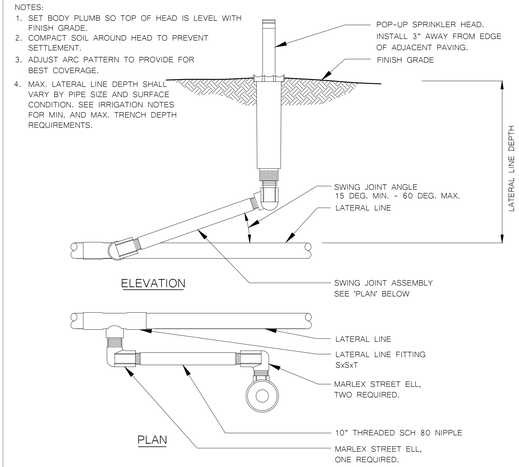

6 PRESSURE REGULATOR DRIP IRRIGATION VALVE DETAIL

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.



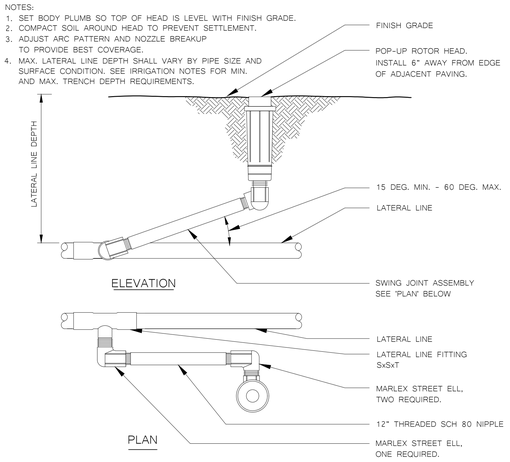

7 QUICK COUPLING VALVE/LEEMCO ANGLE VALVE DETAIL

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 TO PROVIDE FOR BEST COVERAGE.
4. MAX. LATERAL LINE DEPTH SHALL VARY BY PIPE SIZE AND SURFACE CONDITION. SEE IRRIGATION NOTES FOR MIN. AND MAX. TRENCH DEPTH REQUIREMENTS.



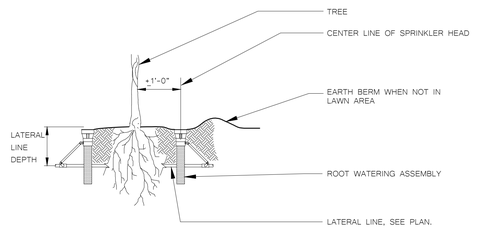

8 POP-UP SPRINKLER HEAD DETAIL

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 AND NOZZLE BREAKUP TO PROVIDE BEST COVERAGE.
4. MAX. LATERAL LINE DEPTH SHALL VARY BY PIPE SIZE AND SURFACE CONDITION. SEE IRRIGATION NOTES FOR MIN. AND MAX. TRENCH DEPTH REQUIREMENTS.




9 POP-UP ROTOR HEAD DETAIL

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




# TREE BUBBLER HEAD DETAIL

**AGENCY APPROVAL:**

LODI USD


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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**KEYNOTES**

**NOTES**

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MTW group
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916 369-3990


MATTHEW HOLLIS WALKER No. 5453 — 12/03/26 — 7/31/27 — STATE OF CALIFORNIA

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 DETAILS**

**DSA SUBMITTAL**

DATE: **2025.12.09** | CLIENT PROJ NO:

SHEET:

**L4.3.1**

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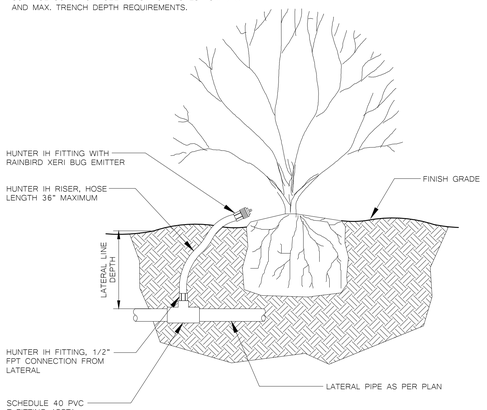
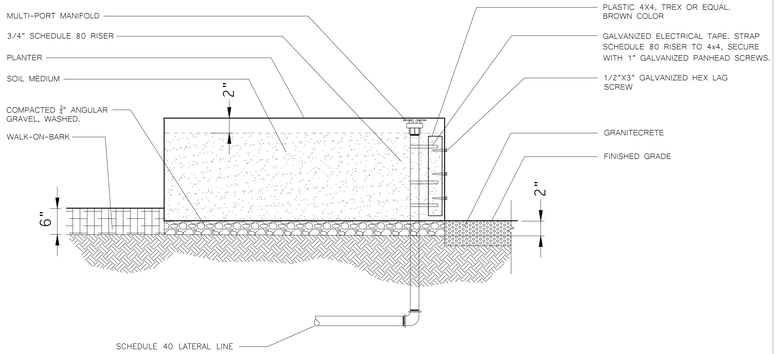
1. MAX. LATERAL LINE DEPTH SHALL VARY BY PIPE SIZE AND SURFACE CONDITION. SEE IRRIGATION NOTES FOR MIN. AND MAX. TRENCH DEPTH REQUIREMENTS.




## 1 SHRUB BUBBLER DETAIL

NOTE:
1. SOIL MEDIUM TO BE ORGANIC VEGETABLE GARDEN MIX BY REDI-GRO OR APPROVED EQUAL.
2. INSTALL SOIL MEDIUM IN 6" LIFTS. COMPACT EACH LIFT TO REDUCE SETTLING.
3. ENSURE DRAINAGE OF PLANTER. AT MINIMUM, DRILL FIFTEEN (15) TWO INCH (2") DIAMETER HOLES IN THE BOTTOM OF THE CONTAINER AND LINER (IF IMPERMEABLE), EVENLY SPACE THE DRAINAGE HOLES SO AS TO NOT UNDERMINE THE STRUCTURAL INTEGRITY OF THE CONTAINER. PAINT CUT EDGE OF TANK BOTTOM WITH 3 COATS OF RUST-OLEUM, OR EQUAL, MINIMUM 2" OVERLAP.
4. TOP OF PLANTER SHALL BE LEVEL.




## 2 GARDEN BED INSTALLATION

## PRESSURE LOSS CALCULATIONS

1. STATIC WATER PRESSURE BEFORE BACKFLOW: 61 PSI
2. DYNAMIC WATER PRESSURE AFTER BACKFLOW: 49 PSI
3. MAINLINE (4" SIZE) TO BOOSTER PUMP : 3 PSI LOSS
4. TOTAL PRESSURE LOSS BEFORE BOOSTER PUMP: 15 PSI
5. INLET PRESSURE AT BOOSTER PUMP: 46 PSI

6. BOOSTER PUMP: 40 PSI BOOST
7. OUTLET PRESSURE AT BOOSTER PUMP: 86 PSI
8. MASTER VALVE (3" NORMALLY OPEN GRISWOLD #2160N): 4.25 PSI LOSS
9. FLOW SENSOR (3" CST SADDLE): 0 PSI LOSS

10. 4" MAINLINE (TO FARTHEST VALVE): 3.5 PSI LOSS
11. FARTHEST VALVE (2" RAINBIRD PEB): 4.65 PSI LOSS
12. LATERAL LINE TO FARTHEST VALVE (VARIOUS SIZES): 3.4 PSI LOSS
13. TOTAL PRESSURE LOSS AFTER BOOSTER PUMP: 16 PSI
14. FINAL PRESSURE AT FARTHEST HEAD: 70 PSI

## IRRIGATION HYDROZONE INFORMATION TABLE

| STATION #/HYDROZONE | PLANT WATER USE TYPE | PLANT FACTOR (PF) | HYDROZONE AREA (HA) (SQ.FT.) | PF x HA (SQ.FT.) | IRRIGATION EFFICIENCY (IE) | ETWU (GALLONS) |
|---|---|---|---|---|---|---|
| A1 | TREE - MEDIUM | 0.4 | 140 | 56.0 | 0.75 | 2,162 |
| A2 | TREE - MEDIUM | 0.4 | 60 | 24.0 | 0.75 | 927 |
| A3 | TREE - MEDIUM | 0.4 | 260 | 104.0 | 0.75 | 4,015 |
| A4 | TREE - MEDIUM | 0.4 | 80 | 32.0 | 0.81 | 1,144 |
| A5 | TREE - MEDIUM | 0.4 | 600 | 240.0 | 0.81 | 8,579 |
| A6 | TREE - MEDIUM | 0.4 | 400 | 160.0 | 0.75 | 6,177 |
| A7 | TREE - MEDIUM | 0.4 | 100 | 40.0 | 0.75 | 1,544 |
| A8 | TREE - MEDIUM | 0.4 | 380 | 152.0 | 0.75 | 5,868 |
| A9 | TREE - MEDIUM | 0.4 | 280 | 112.0 | 0.81 | 4,004 |
| A10 | TREE - MEDIUM | 0.4 | 640 | 256.0 | 0.81 | 9,151 |
| A11 | TREE - MEDIUM | 0.4 | 60 | 24.0 | 0.75 | 927 |
| A12 | TREE - MEDIUM | 0.4 | 280 | 112.0 | 0.75 | 4,324 |
| A13 | TREE - MEDIUM | 0.4 | 100 | 40.0 | 0.75 | 1,544 |
| A14 | TREE - MEDIUM | 0.4 | 360 | 144.0 | 0.81 | 5,147 |
| A15 | TREE - MEDIUM | 0.4 | 420 | 168.0 | 0.81 | 6,005 |
| A16 | SHRUB - LOW | 0.3 | 2,276 | 682.8 | 0.75 | 26,360 |
| A17 | SHRUB - LOW | 0.3 | 4,673 | 1401.9 | 0.75 | 54,121 |
| A18 | SHRUB - LOW | 0.3 | 3,756 | 1126.8 | 0.75 | 43,500 |
| A19 | SHRUB - LOW | 0.3 | 2,427 | 728.1 | 0.81 | 26,026 |
| A20 | SHRUB - LOW | 0.3 | 636 | 190.8 | 0.81 | 6,820 |
| A21 | SHRUB - LOW | 0.3 | 640 | 192.0 | 0.75 | 7,412 |
| A22 | SHRUB - LOW | 0.3 | 3,011 | 903.3 | 0.75 | 34,872 |
| A23-A24 | SHRUB - LOW | 0.3 | 7,429 | 2228.7 | 0.75 | 86,040 |
| A25 | SHRUB - LOW | 0.3 | 2,792 | 837.6 | 0.81 | 29,941 |
| A26 | SHRUB - LOW | 0.3 | 1,047 | 314.1 | 0.75 | 12,126 |
| A27 | SHRUB - LOW | 0.3 | 3,610 | 1083.0 | 0.75 | 41,810 |
| A28 | SHRUB - LOW | 0.3 | 2,905 | 871.5 | 0.75 | 33,645 |
| A29 | SHRUB - LOW | 0.3 | 2,864 | 859.2 | 0.81 | 30,713 |
| A30 | SHRUB - LOW | 0.3 | 3,370 | 1011.0 | 0.81 | 36,139 |
| A31 | SHRUB - LOW | 0.3 | 3,511 | 1053.3 | 0.75 | 40,663 |
| A32 | SHRUB - LOW | 0.3 | 590 | 177.0 | 0.75 | 6,833 |
| A33 | SHRUB - LOW | 0.3 | 4,545 | 1363.5 | 0.75 | 52,638 |
| A34 | SHRUB - LOW | 0.3 | 2,785 | 835.5 | 0.81 | 29,866 |
| A35 | SHRUB - LOW | 0.3 | 3,742 | 1122.6 | 0.81 | 40,128 |
| A36 | SHRUB - LOW | 0.3 | 5,162 | 1548.6 | 0.75 | 59,784 |
| A37 | SHRUB - LOW | 0.3 | 144 | 43.2 | 0.75 | 1,668 |
| A38 | SHRUB - LOW | 0.3 | 3,791 | 1137.3 | 0.75 | 43,906 |
| A39 | LAWN - HIGH | 0.8 | 2,713 | 2170.4 | 0.75 | 83,789 |
| A40 | LAWN - HIGH | 0.8 | 2,348 | 1878.4 | 0.75 | 72,516 |
| A41 | LAWN - HIGH | 0.8 | 3,940 | 3152.0 | 0.75 | 121,664 |
| B1 | TREE - MEDIUM | 0.4 | 9,043 | 3617.2 | 0.81 | 129,299 |
| B2-B9 | LAWN - HIGH | 0.8 | 83,932 | 67145.6 | 0.75 | 2,592,178 |
| B10 | SHRUB - LOW | 0.3 | 1,225 | 367.5 | 0.81 | 13,137 |
| | TOTAL AREA | | 173,067 | | ETWU TOTAL | 3,819,130 |
| | TOTAL AREA (SLA) | | 92,933 | | | |
| Eto (Lodi) | 46.7 | | | | | |

ESTIMATED TOTAL WATER USAGE (ETWU) = (ETo)(0.62)(PF)(HA)(IE+SLA) = GAL/YEAR

MAXIMUM APPLIED WATER ALLOWANCE (MAWA) = (ETo)(0.62)(0.65 x LA)+(0.35 x SLA)] = GAL/YEAR

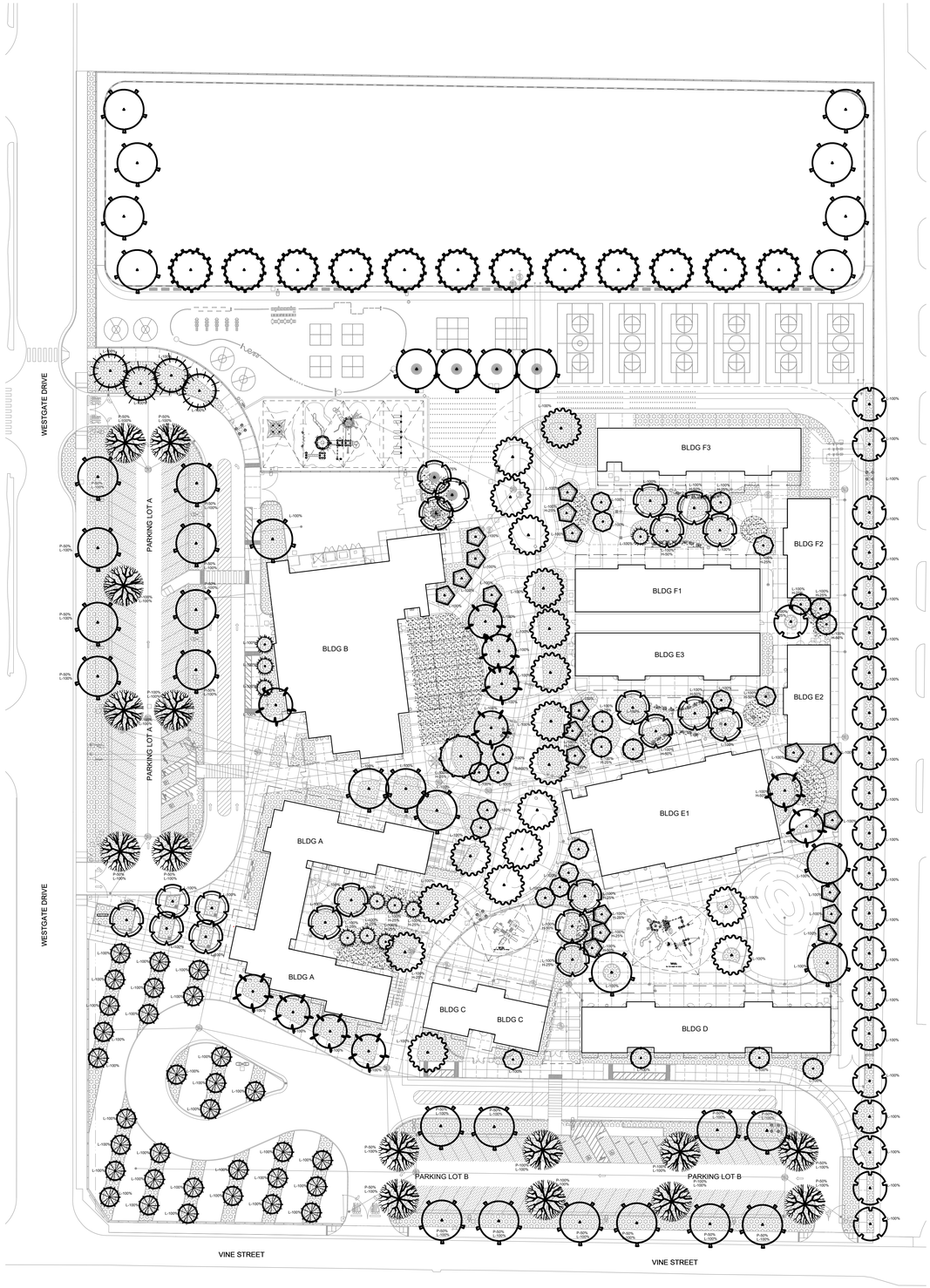
MAWA TOTAL 4,196,912

| Plant Water Use Type | | Plant Factor |
|---|---|---|
| Very Low | | 0 - 0.1 |
| Low | | 0.2 - 0.3 |
| Medium | | 0.4 - 0.6 |
| High | | 0.7 - 1.0 |
| SLA | | 1.0 |
| | | |
| **Irrigation Efficiency** | | **IE** |
| Overhead | | 0.75 |
| Drip | | 0.81 |

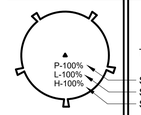
## IRRIGATION SCHEDULE TABLE

| STATION #/HYDROZONE | PLANT WATER USE TYPE | PLANT FACTOR (PF) | IRRIGATION TYPE | FLOW (GPM) | PRECIP. RATE (PR) INCH/HR | IRRIGATION EFFICIENCY (IE) | SOIL TYPE | ROOT DEPTH | SLOPE | EXPOSURE | MAINTENANCE PERIOD (X/Y Z GAL) | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | JANUARY | | | FEBUARY | | | MARCH | | | APRIL | | | MAY | | | JUNE | | | JULY | | | AUGUST | | | SEPTEMBER | | |
| A1 | TREE - MEDIUM | 0.4 | RWS TREE BUBBLER | 7.0 | 0.50 | 0.81 | CLAY LOAM | 12-24" | 0-5% | FULL SUN | 0 | /1 | 0 GAL | 0 | /1 | 0 GAL | 18 | /1 | 550 GAL | 22 | /2 | 1,375 GAL | 28 | /3 | 2,613 GAL | 20 | /5 | 3,071 GAL | 21 | /5 | 3,300 GAL | 16 | /6 | 2,929 GAL | 21 | /3 | 1,971 GAL |
| A2 | TREE - MEDIUM | 0.4 | RWS TREE BUBBLER | 3.0 | 0.50 | 0.81 | CLAY LOAM | 12-24" | 0-5% | FULL SUN | 0 | /1 | 0 GAL | 0 | /1 | 0 GAL | 18 | /1 | 236 GAL | 22 | /2 | 589 GAL | 28 | /3 | 1,120 GAL | 20 | /5 | 1,316 GAL | 21 | /5 | 1,414 GAL | 16 | /6 | 1,255 GAL | 21 | /3 | 845 GAL |
| A3 | TREE - MEDIUM | 0.4 | RWS TREE BUBBLER | 13.0 | 0.50 | 0.81 | CLAY LOAM | 12-24" | 0-5% | FULL SUN | 0 | /1 | 0 GAL | 0 | /1 | 0 GAL | 18 | /1 | 1,022 GAL | 22 | /2 | 2,554 GAL | 28 | /3 | 4,852 GAL | 20 | /5 | 5,703 GAL | 21 | /5 | 6,129 GAL | 16 | /6 | 5,440 GAL | 21 | /3 | 3,660 GAL |
| A4 | TREE - MEDIUM | 0.4 | RWS TREE BUBBLER | 4.0 | 0.50 | 0.81 | CLAY LOAM | 12-24" | 0-5% | FULL SUN | 0 | /1 | 0 GAL | 0 | /1 | 0 GAL | 18 | /1 | 314 GAL | 22 | /2 | 786 GAL | 28 | /3 | 1,493 GAL | 20 | /5 | 1,755 GAL | 21 | /5 | 1,886 GAL | 16 | /6 | 1,674 GAL | 21 | /3 | 1,126 GAL |
| A5 | TREE - MEDIUM | 0.4 | RWS TREE BUBBLER | 30.0 | 0.50 | 0.81 | CLAY LOAM | 12-24" | 0-5% | FULL SUN | 0 | /1 | 0 GAL | 0 | /1 | 0 GAL | 18 | /1 | 2,357 GAL | 22 | /2 | 5,893 GAL | 28 | /3 | 11,197 GAL | 20 | /5 | 13,162 GAL | 21 | /5 | 14,144 GAL | 16 | /6 | 12,553 GAL | 21 | /3 | 8,447 GAL |
| A6 | TREE - MEDIUM | 0.4 | RWS TREE BUBBLER | 20.0 | 0.50 | 0.81 | CLAY LOAM | 12-24" | 0-5% | FULL SUN | 0 | /1 | 0 GAL | 0 | /1 | 0 GAL | 18 | /1 | 1,572 GAL | 22 | /2 | 3,929 GAL | 28 | /3 | 7,465 GAL | 20 | /5 | 8,775 GAL | 21 | /5 | 9,429 GAL | 16 | /6 | 8,369 GAL | 21 | /3 | 5,631 GAL |
| A7 | TREE - MEDIUM | 0.4 | RWS TREE BUBBLER | 5.0 | 0.50 | 0.81 | CLAY LOAM | 12-24" | 0-5% | FULL SUN | 0 | /1 | 0 GAL | 0 | /1 | 0 GAL | 18 | /1 | 393 GAL | 22 | /2 | 982 GAL | 28 | /3 | 1,866 GAL | 20 | /5 | 2,194 GAL | 21 | /5 | 2,357 GAL | 16 | /6 | 2,092 GAL | 21 | /3 | 1,408 GAL |
| A8 | TREE - MEDIUM | 0.4 | RWS TREE BUBBLER | 19.0 | 0.50 | 0.81 | CLAY LOAM | | 12-24" | | 0 | /1 | 0 GAL | 0 | /1 | 0 GAL | 18 | /1 | 1,493 GAL | 22 | /2 | 3,732 GAL | 28 | /3 | 7,092 GAL | 20 | /5 | 8,336 GAL | 21 | /5 | 8,958 GAL | 16 | /6 | 7,960 GAL | 21 | /3 | 5,350 GAL |
| A9 | TREE - MEDIUM | 0.4 | RWS TREE BUBBLER | 14.0 | 0.50 | 0.81 | CLAY LOAM | 12-24" | 0-5% | FULL SUN | 0 | /1 | 0 GAL | 0 | /1 | 0 GAL | 18 | /1 | 1,100 GAL | 22 | /2 | 2,750 GAL | 28 | /3 | 5,225 GAL | 20 | /5 | 6,142 GAL | 21 | /5 | 6,601 GAL | 16 | /6 | 5,858 GAL | 21 | /3 | 3,942 GAL |
| A10 | TREE - MEDIUM | 0.4 | RWS TREE BUBBLER | 32.0 | 0.50 | 0.81 | CLAY LOAM | 12-24" | 0-5% | FULL SUN | 0 | /1 | 0 GAL | 0 | /1 | 0 GAL | 18 | /1 | 2,514 GAL | 22 | /2 | 6,286 GAL | 28 | /3 | 11,944 GAL | 20 | /5 | 14,039 GAL | 21 | /5 | 15,087 GAL | 16 | /6 | 13,390 GAL | 21 | /3 | 9,010 GAL |
| A11 | TREE - MEDIUM | 0.4 | RWS TREE BUBBLER | 3.0 | 0.50 | 0.81 | CLAY LOAM | 12-24" | 0-5% | FULL SUN | 0 | /1 | 0 GAL | 0 | /1 | 0 GAL | 18 | /1 | 236 GAL | 22 | /2 | 589 GAL | 28 | /3 | 1,120 GAL | 20 | /5 | 1,316 GAL | 21 | /5 | 1,414 GAL | 16 | /6 | 1,255 GAL | 21 | /3 | 845 GAL |
| A12 | TREE - MEDIUM | 0.4 | RWS TREE BUBBLER | 14.0 | 0.50 | 0.81 | CLAY LOAM | 12-24" | 0-5% | FULL SUN | 0 | /1 | 0 GAL | 0 | /1 | 0 GAL | 18 | /1 | 1,100 GAL | 22 | /2 | 2,750 GAL | 28 | /3 | 5,225 GAL | 20 | /5 | 6,142 GAL | 21 | /5 | 6,601 GAL | 16 | /6 | 5,858 GAL | 21 | /3 | 3,942 GAL |
| A13 | TREE - MEDIUM | 0.4 | RWS TREE BUBBLER | 5.0 | 0.50 | 0.81 | CLAY LOAM | 12-24" | 0-5% | FULL SUN | 0 | /1 | 0 GAL | 0 | /1 | 0 GAL | 18 | /1 | 393 GAL | 22 | /2 | 982 GAL | 28 | /3 | 1,866 GAL | 20 | /5 | 2,194 GAL | 21 | /5 | 2,357 GAL | 16 | /6 | 2,092 GAL | 21 | /3 | 1,408 GAL |
| A14 | TREE - MEDIUM | 0.4 | RWS TREE BUBBLER | 18.0 | 0.50 | 0.81 | CLAY LOAM | 12-24" | 0-5% | FULL SUN | 0 | /1 | 0 GAL | 0 | /1 | 0 GAL | 18 | /1 | 1,414 GAL | 22 | /2 | 3,536 GAL | 28 | /3 | 6,716 GAL | 20 | /5 | 7,897 GAL | 21 | /5 | 8,486 GAL | 16 | /6 | 7,532 GAL | 21 | /3 | 5,068 GAL |
| A15 | TREE - MEDIUM | 0.4 | RWS TREE BUBBLER | 21.0 | 0.50 | 0.81 | CLAY LOAM | 12-24" | 0-5% | FULL SUN | 0 | /1 | 0 GAL | 0 | /1 | 0 GAL | 18 | /1 | 1,650 GAL | 22 | /2 | 4,125 GAL | 28 | /3 | 7,838 GAL | 20 | /5 | 9,213 GAL | 21 | /5 | 9,901 GAL | 16 | /6 | 8,787 GAL | 21 | /3 | 5,913 GAL |
| A16 | SHRUB - LOW | 0.3 | R-VAN NOZZLES | 29.9 | 0.75 | 0.75 | CLAY LOAM | 12-24" | 0-5% | FULL SUN | 0 | /1 | 0 GAL | 0 | /1 | 0 GAL | 10 | /1 | 1,269 GAL | 12 | /2 | 3,172 GAL | 15 | /3 | 6,026 GAL | 11 | /5 | 7,094 GAL | 12 | /5 | 7,612 GAL | 9 | /6 | 6,756 GAL | 11 | /3 | 4,546 GAL |
| A17 | SHRUB - LOW | 0.3 | R-VAN NOZZLES | 55.1 | 0.75 | 0.75 | CLAY LOAM | 12-24" | 0-5% | FULL SUN | 0 | /1 | 0 GAL | 0 | /1 | 0 GAL | 10 | /1 | 2,338 GAL | 12 | /2 | 5,845 GAL | 15 | /3 | 11,106 GAL | 11 | /5 | 13,054 GAL | 12 | /5 | 14,028 GAL | 9 | /6 | 12,450 GAL | 11 | /3 | 8,378 GAL |
| A18 | SHRUB - LOW | 0.3 | R-VAN NOZZLES | 39.5 | 0.75 | 0.75 | CLAY LOAM | 12-24" | 0-5% | FULL SUN | 0 | /1 | 0 GAL | 0 | /1 | 0 GAL | 10 | /1 | 1,676 GAL | 12 | /2 | 4,190 GAL | 15 | /3 | 7,961 GAL | 11 | /5 | 9,358 GAL | 12 | /5 | 10,056 GAL | 9 | /6 | 8,925 GAL | 11 | /3 | 6,006 GAL |
| A19 | SHRUB - LOW | 0.3 | R-VAN NOZZLES | 30.5 | 0.75 | 0.75 | CLAY LOAM | 12-24" | 0-5% | FULL SUN | 0 | /1 | 0 GAL | 0 | /1 | 0 GAL | 10 | /1 | 1,294 GAL | 12 | /2 | 3,235 GAL | 15 | /3 | 6,147 GAL | 11 | /5 | 7,226 GAL | 12 | /5 | 7,765 GAL | 9 | /6 | 6,891 GAL | 11 | /3 | 4,637 GAL |
| A20 | SHRUB - LOW | 0.3 | HE-VAN NOZZLES | 14.4 | 2.00 | 0.75 | CLAY LOAM | 12-24" | 0-5% | FULL SUN | 0 | /1 | 0 GAL | 0 | /1 | 0 GAL | 4 | /1 | 229 GAL | 5 | /2 | 573 GAL | 6 | /3 | 1,088 GAL | 4 | /5 | 1,279 GAL | 4 | /5 | 1,375 GAL | 3 | /6 | 1,220 GAL | 4 | /3 | 821 GAL |
| A21 | SHRUB - LOW | 0.3 | HE-VAN NOZZLES | 10.2 | 2.00 | 0.75 | CLAY LOAM | 12-24" | 0-5% | FULL SUN | 0 | /1 | 0 GAL | 0 | /1 | 0 GAL | 4 | /1 | 162 GAL | 5 | /2 | 406 GAL | 6 | /3 | 771 GAL | 4 | /5 | 906 GAL | 4 | /5 | 974 GAL | 3 | /6 | 864 GAL | 4 | /3 | 582 GAL |
| A22 | SHRUB - LOW | 0.3 | R-VAN NOZZLES | 45.8 | 0.75 | 0.75 | CLAY LOAM | 12-24" | 0-5% | FULL SUN | 0 | /1 | 0 GAL | 0 | /1 | 0 GAL | 10 | /1 | 1,943 GAL | 12 | /2 | 4,859 GAL | 15 | /3 | 9,231 GAL | 11 | /5 | 10,851 GAL | 12 | /5 | 11,660 GAL | 9 | /6 | 10,349 GAL | 11 | /3 | 6,964 GAL |
| A23 | SHRUB - LOW | 0.3 | R-VAN NOZZLES | 53.3 | 0.75 | 0.75 | CLAY LOAM | 12-24" | 0-5% | FULL SUN | 0 | /1 | 0 GAL | 0 | /1 | 0 GAL | 10 | /1 | 2,262 GAL | 12 | /2 | 5,654 GAL | 15 | /3 | 10,743 GAL | 11 | /5 | 12,627 GAL | 12 | /5 | 13,570 GAL | 9 | /6 | 12,043 GAL | 11 | /3 | 8,104 GAL |
| A24 | SHRUB - LOW | 0.3 | R-VAN NOZZLES | 39.6 | 0.75 | 0.75 | CLAY LOAM | 12-24" | 0-5% | FULL SUN | 0 | /1 | 0 GAL | 0 | /1 | 0 GAL | 10 | /1 | 1,680 GAL | 12 | /2 | 4,201 GAL | 15 | /3 | 7,981 GAL | 11 | /5 | 9,382 GAL | 12 | /5 | 10,082 GAL | 9 | /6 | 8,948 GAL | 11 | /3 | 6,021 GAL |
| A25 | SHRUB - LOW | 0.3 | R-VAN NOZZLES | 33.9 | 0.75 | 0.75 | CLAY LOAM | 12-24" | 0-5% | FULL SUN | 0 | /1 | 0 GAL | 0 | /1 | 0 GAL | 10 | /1 | 1,438 GAL | 12 | /2 | 3,596 GAL | 15 | /3 | 6,833 GAL | 11 | /5 | 8,031 GAL | 12 | /5 | 8,631 GAL | 9 | /6 | 7,660 GAL | 11 | /3 | 5,154 GAL |
| A26 | SHRUB - LOW | 0.3 | R-VAN NOZZLES | 13.8 | 0.75 | 0.75 | CLAY LOAM | 12-24" | 0-5% | FULL SUN | 0 | /1 | 0 GAL | 0 | /1 | 0 GAL | 10 | /1 | 586 GAL | 12 | /2 | 1,464 GAL | 15 | /3 | 2,781 GAL | 11 | /5 | 3,269 GAL | 12 | /5 | 3,513 GAL | 9 | /6 | 3,118 GAL | 11 | /3 | 2,098 GAL |
| A27 | SHRUB - LOW | 0.3 | R-VAN NOZZLES | 44.4 | 0.75 | 0.75 | CLAY LOAM | 12-24" | 0-5% | FULL SUN | 0 | /1 | 0 GAL | 0 | /1 | 0 GAL | 10 | /1 | 1,884 GAL | 12 | /2 | 4,710 GAL | 15 | /3 | 8,949 GAL | 11 | /5 | 10,519 GAL | 12 | /5 | 11,304 GAL | 9 | /6 | 10,032 GAL | 11 | /3 | 6,751 GAL |
| A28 | SHRUB - LOW | 0.3 | R-VAN NOZZLES | 37.2 | 0.75 | 0.75 | CLAY LOAM | 12-24" | 0-5% | FULL SUN | 0 | /1 | 0 GAL | 0 | /1 | 0 GAL | 10 | /1 | 1,576 GAL | 12 | /2 | 3,946 GAL | 15 | /3 | 7,498 GAL | 11 | /5 | 8,813 GAL | 12 | /5 | 9,471 GAL | 9 | /6 | 8,405 GAL | 11 | /3 | 5,656 GAL |
| A29 | SHRUB - LOW | 0.3 | R-VAN NOZZLES | 41.9 | 0.75 | 0.75 | CLAY LOAM | 12-24" | 0-5% | FULL SUN | 0 | /1 | 0 GAL | 0 | /1 | 0 GAL | 10 | /1 | 1,778 GAL | 12 | /2 | 4,445 GAL | 15 | /3 | 8,440 GAL | 11 | /5 | 9,927 GAL | 12 | /5 | 10,667 GAL | 9 | /6 | 9,467 GAL | 11 | /3 | 6,371 GAL |
| A30 | SHRUB - LOW | 0.3 | R-VAN NOZZLES | 36.9 | 0.75 | 0.75 | CLAY LOAM | 12-24" | 0-5% | FULL SUN | 0 | /1 | 0 GAL | 0 | /1 | 0 GAL | 10 | /1 | 1,566 GAL | 12 | /2 | 3,914 GAL | 15 | /3 | 7,437 GAL | 11 | /5 | 8,742 GAL | 12 | /5 | 9,394 GAL | 9 | /6 | 8,338 GAL | 11 | /3 | 5,611 GAL |
| A31 | SHRUB - LOW | 0.3 | R-VAN NOZZLES | 48.6 | 0.75 | 0.75 | CLAY LOAM | 12-24" | 0-5% | FULL SUN | 0 | /1 | 0 GAL | 0 | /1 | 0 GAL | 10 | /1 | 2,062 GAL | 12 | /2 | 5,155 GAL | 15 | /3 | 9,795 GAL | 11 | /5 | 11,514 GAL | 12 | /5 | 12,373 GAL | 9 | /6 | 10,981 GAL | 11 | /3 | 7,390 GAL |
| A32 | SHRUB - LOW | 0.3 | HE-VAN NOZZLES | 7.2 | 2.00 | 0.75 | CLAY LOAM | 12-24" | 0-5% | FULL SUN | 0 | /1 | 0 GAL | 0 | /1 | 0 GAL | 4 | /1 | 115 GAL | 5 | /2 | 286 GAL | 6 | /3 | 544 GAL | 4 | /5 | 640 GAL | 4 | /5 | 687 GAL | 3 | /6 | 610 GAL | 4 | /3 | 411 GAL |
| A33 | SHRUB - LOW | 0.3 | POINT SOURCE DRIP | 6.6 | 0.50 | 0.81 | CLAY LOAM | 12-24" | 0-5% | FULL SUN | 0 | /1 | 0 GAL | 0 | /1 | 0 GAL | 13 | /1 | 389 GAL | 17 | /2 | 972 GAL | 21 | /3 | 1,848 GAL | 15 | /5 | 2,172 GAL | 16 | /5 | 2,324 GAL | 12 | /6 | 2,071 GAL | 16 | /3 | 1,394 GAL |
| A34 | SHRUB - LOW | 0.3 | POINT SOURCE DRIP | 5.2 | 0.50 | 0.81 | CLAY LOAM | 12-24" | 0-5% | FULL SUN | 0 | /1 | 0 GAL | 0 | /1 | 0 GAL | 13 | /1 | 306 GAL | 17 | /2 | 766 GAL | 21 | /3 | 1,456 GAL | 15 | /5 | 1,711 GAL | 16 | /5 | 1,839 GAL | 12 | /6 | 1,632 GAL | 16 | /3 | 1,098 GAL |
| A35 | SHRUB - LOW | 0.3 | POINT SOURCE DRIP | 5.8 | 0.50 | 0.81 | CLAY LOAM | 12-24" | 0-5% | FULL SUN | 0 | /1 | 0 GAL | 0 | /1 | 0 GAL | 13 | /1 | 342 GAL | 17 | /2 | 855 GAL | 21 | /3 | 1,624 GAL | 15 | /5 | 1,908 GAL | 16 | /5 | 2,051 GAL | 12 | /6 | 1,820 GAL | 16 | /3 | 1,225 GAL |
| A36 | SHRUB - LOW | 0.3 | POINT SOURCE DRIP | 11.0 | 0.50 | 0.81 | CLAY LOAM | 12-24" | 0-5% | FULL SUN | 0 | /1 | 0 GAL | 0 | /1 | 0 GAL | 13 | /1 | 648 GAL | 17 | /2 | 1,621 GAL | 21 | /3 | 3,079 GAL | 15 | /5 | 3,619 GAL | 16 | /5 | 3,852 GAL | 12 | /6 | 3,452 GAL | 16 | /3 | 2,323 GAL |
| A37 | SHRUB - LOW | 0.3 | POINT SOURCE DRIP | 1.6 | 0.50 | 0.81 | CLAY LOAM | 12-24" | 0-5% | FULL SUN | 0 | /1 | 0 GAL | 0 | /1 | 0 GAL | 13 | /1 | 94 GAL | 17 | /2 | 236 GAL | 21 | /3 | 448 GAL | 15 | /5 | 526 GAL | 16 | /5 | 566 GAL | 12 | /6 | 502 GAL | 16 | /3 | 338 GAL |
| A38 | SHRUB - LOW | 0.3 | POINT SOURCE DRIP | 4.3 | 0.50 | 0.81 | CLAY LOAM | 12-24" | 0-5% | FULL SUN | 0 | /1 | 0 GAL | 0 | /1 | 0 GAL | 13 | /1 | 253 GAL | 17 | /2 | 634 GAL | 21 | /3 | 1,204 GAL | 15 | /5 | 1,415 GAL | 16 | /5 | 1,520 GAL | 12 | /6 | 1,349 GAL | 16 | /3 | 908 GAL |
| A39 | LAWN - HIGH | 0.8 | 5000 MPR ROTORS | 23.0 | 0.70 | 0.75 | CLAY LOAM | 6" | 0-5% | FULL SUN | 0 | /1 | 0 GAL | 0 | /1 | 0 GAL | 27 | /1 | 2,788 GAL | 34 | /2 | 6,971 GAL | 43 | /3 | 13,245 GAL | 31 | /5 | 15,569 GAL | 33 | /5 | 16,730 GAL | 24 | /6 | 14,848 GAL | 33 | /3 | 9,992 GAL |
| A40 | LAWN - HIGH | 0.3 | 5001 MPR ROTORS | 30.0 | 0.70 | 0.75 | CLAY LOAM | 6" | 0-5% | FULL SUN | 0 | /1 | 0 GAL | 0 | /1 | 0 GAL | 10 | /1 | 1,364 GAL | 13 | /2 | 3,410 GAL | 16 | /3 | 6,478 GAL | 11 | /5 | 7,615 GAL | 12 | /5 | 8,183 GAL | 9 | /6 | 7,263 GAL | 12 | /3 | 4,887 GAL |
| A41 | LAWN - HIGH | 0.4 | 5002 MPR ROTORS | 35.0 | 0.70 | 0.75 | CLAY LOAM | 6" | 0-5% | FULL SUN | 0 | /1 | 0 GAL | 0 | /1 | 0 GAL | 14 | /1 | 2,122 GAL | 17 | /2 | 5,304 GAL | 22 | /3 | 10,078 GAL | 15 | /5 | 11,846 GAL | 16 | /5 | 12,730 GAL | 12 | /6 | 11,298 GAL | 16 | /3 | 7,602 GAL |
| B1 | TREE - MEDIUM | 0.4 | RWS TREE BUBBLER | 20.0 | 0.50 | 0.81 | CLAY LOAM | 12-24" | 0-5% | FULL SUN | 0 | /1 | 0 GAL | 0 | /1 | 0 GAL | 18 | /1 | 1,572 GAL | 22 | /2 | 3,929 GAL | 28 | /3 | 7,465 GAL | 20 | /5 | 8,775 GAL | 21 | /5 | 9,429 GAL | 16 | /6 | 8,369 GAL | 21 | /3 | 5,631 GAL |
| B2 | LAWN - HIGH | 0.8 | 6504 ROTORS | 73.8 | 0.70 | 0.75 | CLAY LOAM | 6" | 0-5% | FULL SUN | 0 | /1 | 0 GAL | 0 | /1 | 0 GAL | 27 | /1 | 6,947 GAL | 34 | /2 | 22,368 GAL | 43 | /3 | 42,499 GAL | 31 | /5 | 49,955 GAL | 33 | /5 | 53,683 GAL | 24 | /6 | 47,643 GAL | 33 | /3 | 32,060 GAL |
| B3 | LAWN - HIGH | 0.8 | 6505 ROTORS | 82.0 | 0.70 | 0.75 | CLAY LOAM | 6" | 0-5% | FULL SUN | 0 | /1 | 0 GAL | 0 | /1 | 0 GAL | 27 | /1 | 8,941 GAL | 34 | /2 | 24,853 GAL | 43 | /3 | 47,221 GAL | 31 | /5 | 55,505 GAL | 33 | /5 | 59,647 GAL | 24 | /6 | 52,937 GAL | 33 | /3 | 35,623 GAL |
| B4 | LAWN - HIGH | 0.8 | 6506 ROTORS | 57.4 | 0.70 | 0.75 | CLAY LOAM | 6" | 0-5% | FULL SUN | 0 | /1 | 0 GAL | 0 | /1 | 0 GAL | 27 | /1 | 6,959 GAL | 34 | /2 | 17,397 GAL | 43 | /3 | 33,055 GAL | 31 | /5 | 38,854 GAL | 33 | /5 | 41,753 GAL | 24 | /6 | 37,056 GAL | 33 | /3 | 24,936 GAL |
| B5 | LAWN - HIGH | 0.8 | 6507 ROTORS | 65.6 | 0.70 | 0.75 | CLAY LOAM | 6" | 0-5% | FULL SUN | 0 | /1 | 0 GAL | 0 | /1 | 0 GAL | 27 | /1 | 7,953 GAL | 34 | /2 | 19,882 GAL | 43 | /3 | 37,777 GAL | 31 | /5 | 44,404 GAL | 33 | /5 | 47,718 GAL | 24 | /6 | 42,350 GAL | 33 | /3 | 28,498 GAL |
| B6 | LAWN - HIGH | 0.8 | 6508 ROTORS | 82.0 | 0.70 | 0.75 | CLAY LOAM | 6" | 0-5% | FULL SUN | 0 | /1 | 0 GAL | 0 | /1 | 0 GAL | 27 | /1 | 8,941 GAL | 34 | /2 | 24,853 GAL | 43 | /3 | 47,221 GAL | 31 | /5 | 55,505 GAL | 33 | /5 | 59,647 GAL | 24 | /6 | 52,937 GAL | 33 | /3 | 35,623 GAL |
| B7 | LAWN - HIGH | 0.8 | 6509 ROTORS | 73.8 | 0.70 | 0.75 | CLAY LOAM | 6" | 0-5% | FULL SUN | 0 | /1 | 0 GAL | 0 | /1 | 0 GAL | 27 | /1 | 8,947 GAL | 34 | /2 | 22,368 GAL | 43 | /3 | 42,499 GAL | 31 | /5 | 49,955 GAL | 33 | /5 | 53,683 GAL | 24 | /6 | 47,643 GAL | 33 | /3 | 32,060 GAL |
| B8 | LAWN - HIGH | 0.8 | 6510 ROTORS | 73.8 | 0.70 | 0.75 | CLAY LOAM | 6" | 0-5% | FULL SUN | 0 | /1 | 0 GAL | 0 | /1 | 0 GAL | 27 | /1 | 8,947 GAL | 34 | /2 | 22,368 GAL | 43 | /3 | 42,499 GAL | 31 | /5 | 49,955 GAL | 33 | /5 | 53,683 GAL | 24 | /6 | 47,643 GAL | 33 | /3 | 32,060 GAL |
| B9 | LAWN - HIGH | 0.8 | 6511 ROTORS | 65.6 | 0.70 | 0.75 | CLAY LOAM | 6" | 0-5% | FULL SUN | 0 | /1 | 0 GAL | 0 | /1 | 0 GAL | 27 | /1 | 7,953 GAL | 34 | /2 | 19,882 GAL | 43 | /3 | 37,777 GAL | 31 | /5 | 44,404 GAL | 33 | /5 | 47,718 GAL | 24 | /6 | 42,350 GAL | 33 | /3 | 28,498 GAL |
| B10 | SHRUB - LOW | 0.3 | POINT SOURCE DRIP | 1.4 | 0.50 | 0.81 | CLAY LOAM | 12-24" | 0-5% | FULL

THE LINE BROWN ABOVE IS EXACTLY 1" WHEN PLOTTED AT 24x36 SHEETS ORIGINAL PAGE SIZE




## 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 A SHADING (50% WITHIN 20 YEARS)

| TREES | 100% | 50% |
|---|---|---|
| 30' | 3 (707) = 2121 S.F. | 12 (354) = 4248 S.F. |
| SUB-TOTALS | 2121 S.F. | 4248 S.F. |

TOTAL PAVED AREA = 10,592 S.F.
TOTAL SHADED AREA = 6,369 S.F.
PERCENTAGE OF SHADE = 60.0%

### PARKING LOT B SHADING (50% WITHIN 20 YEARS)

| TREES | 100% | 50% |
|---|---|---|
| 30' | 4 (707) = 2828 S.F. | 14 (354) = 4956 S.F. |
| SUB-TOTALS | 2828 S.F. | 4956 S.F. |

TOTAL PAVED AREA = 10,478 S.F.
TOTAL SHADED AREA = 7,784 S.F.
PERCENTAGE OF SHADE = 74.0%

### LANDSCAPE SHADING (20% WITHIN 15 YEARS)

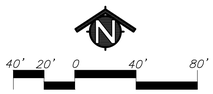
| TREES | 100% |
|---|---|
| 30' | 58 (707) = 41,006 S.F. |
| 25' | 55 (491) = 27,005 S.F. |
| 20' | 87 (314) = 27,318 S.F. |
| SUB-TOTALS | 0000 S.F. |

TOTAL LANDSCAPE AREA = 68,638 S.F.
TOTAL SHADED AREA = 95,329 S.F.
PERCENTAGE OF SHADE = 139.0%

### HARDSCAPE SHADING (20% WITHIN 15 YEARS)

| TREES | 100% | 75% | 50% | 25% |
|---|---|---|---|---|
| 30' | | | | 3 (177) = 531 S.F. |
| 25' | | | 6 (246) = 1476 S.F. | 2 (123) = 246 S.F. |
| 20' | 1 (314) = 314 S.F. | 1 (236) = 236 S.F. | 4 (157) = 628 S.F. | 15 ( 79) = 1185 S.F. |
| SUB-TOTALS | 314 S.F. | 236 S.F. | 2104 S.F. | 1962 S.F. |

TOTAL HARDSCAPE AREA = 8,227 S.F.
TOTAL SHADED AREA = 4,616 S.F.
PERCENTAGE OF SHADE = 56.0%




SCALE: 1"= 40'-0"

AGENCY APPROVAL:

LODI USD

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

ISSUE

| 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 — 5453 — 12/03/26 — 7/31/27 — STATE OF CALIFORNIA

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**

**DSA SUBMITTAL**

DATE: **2025.12.09** | CLIENT PROJ NO:

SHEET:

**L6.1.1**

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PLEASE RECYCLE

IF THIS LINE BROWN ABOVE IS EXACTLY 1" THEN THIS SHEET IS ORIGINAL MADE SIZE

## CONCRETE FORMWORK AND ACCESSORIES NOTES:

1. FORM MATERIALS MAY BE PLYWOOD PER APA DOC PS-1, CLASS 1 EXTERIOR GRADE, OR DOUGLAS FIR LUMBER, CONSTRUCTION GRADE MINIMUM.
2. FORM RELEASE AGENTS SHALL BE OF A LIQUID CHEMICAL AGENT FREE OF WAX OR OILS AND SHALL BE COLORLESS AND NON-STAINING, AND IN COMPLIANCE WITH LOCAL AQMD. FORM RELEASE AGENTS TO BE APPLIED PRIOR TO PLACEMENT OF REINFORCING AND ALL EMBEDDED ITEMS.
3. FORMWORK IS TO BE ERECTED PER ACI 318 SECTION 26.11 AND IS TO MAINTAIN TOLERANCES REQUIRED BY ACI 117. FORMWORK IS TO BE PER SPECIFICATIONS, TYP UNO. NON-PLYWOOD FORMWORK SHALL BE THOROUGHLY WATER SOAKED AT LEAST 12 HOURS BEFORE PLACING CONCRETE.
4. REMOVAL OF FORMWORK IS TO BE PER ACI 318 SECTION 26.11.
5. SPACERS AND CHAIRS FOR REINFORCING AT SLABS ON GRADE ARE TO BE MANUFACTURED FROM NON-FERROUS MATERIAL/PLASTIC. CONCRETE DOBIES MY BE USED AT FOOTINGS ONLY
6. ALL DEBRIS SHALL BE REMOVED FROM FORMS AND FOOTING EXCAVATIONS PRIOR TO POURING CONCRETE. NO WOOD STAKES OR FORM SPREADERS SHALL BE PERMITTED IN CONCRETE.

## CONCRETE REINFORCING NOTES:

1. ALL CONCRETE REINFORCING SHALL CONFORM TO THE 2022 CBC AND BE DETAILED, FABRICATED, AND PLACED PER ACI 318-19, AND PER THE LATEST EDITION OF ACI 315.
2. SUBMITTALS:
   - A. SHOP DRAWINGS - DRAWINGS INDICATING BAR SIZES, SPACING, LOCATIONS, QUANTITIES, AND BEND/DETAILING PROVISIONS.
   - B. PRODUCT DATA - SPACING AND SUPPORTING DEVISES INCLUDING CHAIRS.
3. REINFORCEMENT SHALL CONFORM TO ASTM A706 GRADE 60 OR ASTM A615 GRADE 60. ASTM A615 GRADE 60 REQUIRES 80,000 PSI MINIMUM TENSILE STRENGTH WITH 1.10 MINIMUM RATIO OF ACTUAL TENSILE STRENGTH TO ACTUAL YIELD STRENGTH BASED ON MILL TESTING. ALL REINFORCEMENT TO BE WELDED SHALL BE ASTM A-706, GRADE 60 (SEE NOTE 10 BELOW).
4. ALL BENDING OF REINFORCEMENT IS TO BE PER ACI AND PER 1/S0.01. FIELD BENDING OF REINFORCEMENT SHALL NOT BE PERMITTED.
5. REINFORCEMENT IN SLABS AND FOOTINGS SHALL BE CONTINUOUS AROUND CORNERS OR CORNER BARS PROVIDED.
6. LAP SPLICES OF CONCRETE REINFORCEMENT, UNO
   - A. #3 BARS = 30"
   - B. #4 BARS = 40"
   - C. #5 BARS = 50"
   - D. #6 BARS = 60"

   NOTED LAP LENGTHS ARE BASED ON CONCRETE WITH A 28-DAY STRENGTH OF 3,500 PSI, NON-EPOXY COATED BARS, AND CLASS B LAP SPLICES.
7. ALL ADJACENT REINFORCING LAPS ARE TO BE STAGGERED A MINIMUM OF 5'-0".
8. REINFORCING SHALL BE PLACED WITH THE FOLLOWING MINIMUM CLEAR COVERAGE, UNO:
   - A. POURED AGAINST EXCAVATIONS/GROUND = 3"
   - B. POURED AGAINST FORMS, EXPOSED TO SOIL = 2"
   - C. CONCRETE EXPOSED TO WEATHER = 1½"
   - D. SLABS ON GRADE - CENTER REINFORCING WITHIN SLAB DEPTH
9. REINFORCING SHALL BE TIED IN PLACE. TACK WELDING OF REINFORCING IS NOT PERMITTED.
10. WHERE REINFORCING IS NOT SPECIFIED, REFER TO ACI 318 FOR MINIMUM REINFORCEMENT.
11. WELDING OF REINFORCING IS NOT PERMITTED UNLESS SHOWN ON THESE DRAWINGS OR WITH PRIOR WRITTEN APPROVAL FROM THE SEOR.

## CAST-IN-PLACE CONCRETE NOTES:

1. ALL CONCRETE CONSTRUCTION SHALL CONFORM TO THE 2022 CBC AND ACI 318-19.
2. SUBMITTALS:
   - A. PRODUCT DATA - CONCRETE RELATED PRODUCTS INCLUDING BUT NOT LIMITED TO BONDING AGENT, NON-SHRINK GROUT, CURING COMPOUND, PROPOSED ADMIXTURES, ETC.
   - B. MIX DESIGNS - SUBMIT ALL PROPOSED MIX DESIGNS AS PREPARED BY CONCRETE SUPPLIER TO AOR/SEOR FOR REVIEW AND FOR ACCEPTANCE BY A THE TESTING LAB OF RECORD (TLOR) FOR THE PROJECT. MIX DESIGNS TO INCLUDE HISTORICAL TEST DATA OF 28-DAY BREAKS (30 MIN).
3. ALL CONCRETE SHALL BE NORMAL WEIGHT PER ACI 301 AND HAVE PROPORTIONS OF CEMENT, COARSE AND FINE AGGREGATE, WATER AND ADMIXTURES TO PRODUCE THE PROPERTIES SPECIFIED FOR EACH CONCRETE MIX TYPE PER ACI 301 ON THE BASIS OF PREVIOUS FIELD EXPERIENCE AND SUPPORTED BY PREVIOUS TEST RECORDS.
4. STRUCTURAL CONCRETE SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES.

   FOR USE AT FOUNDATIONS
   - A. 28-DAY STRENGTH, F'c = 4,000 PSI
   - B. MAX AGGREGATE SIZE = 1"
   - C. MAX WATER TO CEMENT RATIO = 0.55
   - D. SLUMP = 4" ± 1" PER ASTM C-143
   - E. ADMIXTURES CONTAINING CALCIUM CHLORIDE ARE NOT ALLOWED

   FOR USE AT SLABS ON GRADE
   - A. 28-DAY STRENGTH, F'c = 4,000 PSI
   - B. MAX AGGREGATE SIZE = 1"
   - C. MAX WATER TO CEMENT RATIO = 0.45
   - D. SLUMP = 3" ± 1" PER ASTM C-143
   - E. ADMIXTURES CONTAINING CALCIUM CHLORIDE ARE NOT ALLOWED
5. CONSTITUENTS OF STRUCTURAL CONCRETE SHALL MEET THE FOLLOWING REQUIREMENTS:
   - A. PORTLAND CEMENT PER ASTM C-150 TYPE V - THE AMOUNT OF POZZOLAN OR SLAG CEMENT SHALL BE AT LEAST THE AMOUNT THAT HAS BEEN DETERMINED BY SERVICE RECORD TO IMPROVE SULFATE RESISTANCE PER ACI 318-19, TABLE 19.3.2.1, FOOTNOTE 7.
   - B. COARSE AND FINE AGGREGATES PER ASTM C-33.
   - C. REINFORCING PER ASTM A615 GRADE 60, UNO.
   - D. FLY ASH PER ASTM C-618 CLASS N OR F (15% MAX BY WEIGHT).
   - E. WATER SHALL BE PER ASTM C-1602 AND SHALL BE CLEAN AND FREE OF DELETERIOUS AMOUNTS OF ACID, ALKALIS, SALTS AND ORGANIC MATTER.
6. MIX AND DELIVER CONCRETE PER ACI 318 SECTIONS 26.4 AND 26.5 IN TRANSIT MIXERS ONLY (READY-MIXED CONCRETE). READY-MIXED CONCRETE IS TO BE PER ASTM C-94. A DELIVERY TICKET SHALL BE PROVIDED FOR EACH LOAD OF READY-MIXED CONCRETE, WITH A COPY GIVEN TO THE JOB SITE SUPERINTENDENT AND A COPY PROVIDED TO THE AOR/SEOR.
7. ALL REINFORCEMENT, ANCHOR BOLTS, AND OTHER EMBEDDED ITEMS SHALL BE SECURED IN POSITION SHOWN ON DRAWINGS PRIOR TO PLACING CONCRETE.
8. SLABS ON GRADE SHALL BE PLACED OVER A 5" LAYER OF CLEAN CRUSHED ROCK, 1" MAX SIZE, WITH NO MATERIAL PASSING THROUGH A NO. 4 SIEVE. A VAPOR BARRIER IS TO BE PLACED OVER THE LAYER OF GRAVEL, DIRECTLY UNDER THE SLAB. VAPOR BARRIER IS TO BE STEGO WRAP, BY STEGO INDUSTRIES, 15 MIL SYSTEM AND A CLASS A RATING AND A PERM RATING NOT TO EXCEED 0.01 PERMS.
9. FREE-FALL OF CONCRETE SHALL BE LIMITED TO 4'-0" MAX. CONCRETE SHALL NOT BE DROPPED THROUGH REINFORCING STEEL SO AS TO CAUSE SEPARATION OF AGGREGATES.
10. CONCRETE SHALL BE CONSOLIDATED BY MECHANICAL VIBRATION PER ACI 309 BY MEANS SUITABLE FOR ON SITE CONDITIONS. USE HAND RODDING OR TAMPING AS REQUIRED.

## CAST-IN-PLACE CONCRETE NOTES (CONTINUED):

11. CONSTRUCTION JOINTS SHALL HAVE ALL LOOSE MATERIAL REMOVED AND SHALL BE INTENTIONALLY ROUGHENED TO ¼" AMPLITUDE PRIOR TO POURING CONCRETE. CONTRACTOR SHALL SUBMIT CONSTRUCTION JOINT LOCATIONS TO ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.
12. REFER TO ACI RECOMMENDATIONS FOR PLACING AND CURING CONCRETE IN COLD (SECTION 26.5.4) AND HOT (SECTION 26.5.5) WEATHER CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING CONCRETE MIX DESIGN WITH BATCH PLANT TO PROVIDE CONCRETE MIX APPROPRIATE FOR SITE CONDITIONS. NO CONCRETE PLACEMENT SHALL OCCUR AT TEMPERATURES BELOW 50° FAHRENHEIT NOR ABOVE 90° FAHRENHEIT.
13. CONTRACTOR IS RESPONSIBLE FOR DETERMINING AND IMPLEMENTING APPROPRIATE CURING PROCEDURES FOR ACTUAL SITE/WEATHER CONDITIONS AND SHALL INCLUDE PROVISIONS FOR INCLEMENT WEATHER. REFER TO ACI 308R.
14. ALL SLABS SHALL BE FLAT AND LEVEL WITH A TOLERANCE OF ⅜" IN 10' FOR FLATNESS AND MINIMUM LOCAL VALUE F = 32 PER ASTM 1155. THE PROJECT OWNER MAY REJECT ANY CONSTRUCTION THAT DOES NOT MEET THE FLATNESS CRITERIA NOTED WITH REPLACEMENT AT CONTRACTOR'S EXPENSE.
15. CONDUITS AND PIPES EMBEDDED IN THE SLAB (OTHER THAN THOSE PASSING VERTICALLY THROUGH) SHALL NOT BE PERMITTED. CONTRACTOR TO SUBMIT FOOTING PENETRATIONS TO STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
16. BONDING AGENT TO BE PER ASTM C-631, BONDCRETE-S BY BURKE, LOCK BOND NO. 906 BY LAMBERT CORPORATION, OR APPROVED EQUAL.
17. NON-SHRINK GROUT TO BE PER ASTM C-1107, SIKA-328 BY SIKA CORPORATION OR EQUAL, AND SHALL REACH A MINIMUM STRENGTH OF 5,000 PSI WITHIN 7 DAYS.
18. THE STRUCTURAL ENGINEER SHALL BE NOTIFIED BY THE CONTRACTOR A MINIMUM OF 48 HOURS BEFORE PLACING CONCRETE.

## STRUCTURAL STEEL NOTES:

1. THE FABRICATION AND ERECTION OF ALL STEEL CONSTRUCTION SHALL CONFORM TO THE 2022 CBC AND THE AISC STEEL CONSTRUCTION MANUAL 16th EDITION.
2. SUBMITTALS:
   - A. SHOP DRAWINGS - DRAWINGS INDICATING MEMBER SIZES/PROFILES, LOCATIONS, AND CONNECTIONS, BOTH WELDED AND BOLTED.
   - B. PRODUCT DATA - MILL TEST REPORTS/PRODUCT DATA FOR STEEL MEMBERS, BOLTS, AND WELDING ELECTRODES.
   - C. WELDING CERTIFICATES AND PROCEDURES - WELDER'S CERTIFICATES TO CERTIFY THAT WELDERS PERFORMING THE WORK MEET AWS QUALIFICATIONS WITH THE PREVIOUS 12 MONTHS AND WELDING PROCEDURES FOR EACH WELD TYPE REQUIRE ON PROJECT TO BE SUBMITTED FOR ACCEPTANCE BY TESTING LAB OF RECORD (TLOR).
3. STRUCTURAL STEEL SHAPES SHALL CONFORM TO THE FOLLOWING
   - A. ANGLES — ASTM A36, Fy = 36 KSI
   - B. PLATES — ASTM A36/A572, Fy = 50 KSI (DUAL CERT)
   - C. SQUARE/RECTANGULAR HSS — ASTM A500, GRADE C Fy = 50 KSI
4. WELDING SHALL BE BY THE ELECTRIC ARC PROCESS (SHIELDED METAL ARC WELDING, FLUX CORE ARC WELDING, GAS METAL ARC WELDING) PER AWS STANDARDS AND BY CERTIFIED WELDERS. REFER TO "QUALIFICATION PROCEDURE" AWS D1.1.
5. ALL WELDED JOINTS AND ELECTRODES ARE TO BE "PREQUALIFIED." ALL WELDING ELECTRODES ARE TO BE E70XX UNO. FCAW FILLER METAL WIRE SHALL BE ⅛" MAX DIAMETER AND SMAW FILLER METAL WIRE SHALL BE ⅛" MAX DIAMETER.
6. ALL STRUCTURAL STEEL SHALL BE ERECTED PLUM AND TRUE TO LINE. TEMPORARY BRACING SHALL BE INSTALLED AS REQUIRED TO MAINTAIN STABILITY OF THE STRUCTURE UNTIL THE STRUCTURAL SYSTEM IS SUBSTANTIALLY COMPLETE.
7. ALL STRUCTURAL STEEL ITEMS EMBEDDED IN CONCRETE AND LOCATED BELOW GRADE SHALL HAVE 3" MINIMUM COVER. ALL STRUCTURAL STEEL ITEMS EMBEDDED IN CONCRETE AND LOCATED ABOVE GRADE AT CONCRETE EXPOSED TO WEATHER SHALL HAVE 1½" MINIMUM COVER.
8. ALL STEEL BOLTS ARE TO HAVE STANDARD GAGE AND PITCH PER AISC. ALL STEEL-TO-STEEL BOLTED CONNECTIONS SHALL BE WITH A325-N BOLTS, INSTALLED 'SNUG TIGHT' PER AISC, UNO WITH GRADE C NUTS PER ASTM A-563. ALL EMBEDDED ANCHOR BOLTS SHALL BE F1554 GRADE 36 UNO. HOLES AT STEEL-TO-STEEL CONNECTIONS ARE TO BE ⅛" OVERSIZE AND HOLES AT STEEL COLUMN BASE PLATES ARE TO BE ¼" OVERSIZE, UNO.
9. STRUCTURAL STEEL IS TO BE SHOP PRIMED WITH ONE COAT, EXCEPT THE BELOW NOTED LOCATIONS, WHERE PRIMER SHALL BE HELD 2" CLEAR:
   - A. STEEL SURFACES EMBEDDED IN CONCRETE
   - B. SURFACES TO BE FIELD WELDED
   - C. CONTACT SURFACES WITH HIGH STRENGTH BOLTED CONNECTIONS
10. ALL STRUCTURAL COLUMNS ARE TO BE SET UPON ANCHOR RODS WITH LEVELING NUTS ALLOWING APPROXIMATELY 1½" ± CLEARANCE. CLEARANCE SPACE UNDER COLUMNS AND BLOCK-OUTS IN CURBS FOR COLUMN PLACEMENT ARE TO BE FILLED WITH A NON-SHRINK, HIGH-STRENGTH, POURABLE GROUT.

## CONCRETE MASONRY NOTES:

1. ALL CONCRETE MASONRY UNITS SHALL BE MEDIUM WEIGHT PER ASTM C90 WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH = 2,000 PSI. USE OPEN END UNITS AS REQUIRED TO MAINTAIN REINFORCEMENT CLEARANCES AND PROPERLY CONSOLIDATE GROUT. ALL CELLS TO BE SOLID GROUTED. UNITS TO BE SAMPLED AND TESTED TO VERIFY CONFORMANCE WITH ASTM C90.
2. GROUT SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH = 2000 PSI AND HAVE MINIMUM 6 SACKS OF CEMENT/CU YD. ADD ONE POUND SIKA GROUT AID PER 100 LB OF CEMENT. GROUT SHALL CONFORM WITH TMS 402/602 & ASTM C476
3. MORTAR SHALL BE TYPE S IN ACCORDANCE WITH TMS 402/602 & ASTM C270 WITH A MINIMUM 28-DAY STRENGTH OF 2000 PSI.
4. LAP ALL REINFORCEMENT 80 BAR DIAMETERS UNLESS NOTED OTHERWISE. WHERE LAPS OF ADJACENT BARS ARE SPACED 3" OR LESS, INCREASE LAP LENGTH 30%.
5. ALL REINFORCEMENT TO BE TIED AND SECURED IN PLACE PRIOR TO GROUTING.
6. GROUT POURS ARE TO BE PER 2022 CBC 2104A.1.3.5 AND GROUT LIFTS ARE TO BE PER 2104A.1.3.6. SEE PROJECT SPECIFICATIONS.
7. PROVIDE INVERTED BOND UNIT AT BOTTOM OF ALL LIFTS AS REQUIRED TO FACILITATE PLACEMENT OF CLEAN OUTS.
8. FOOTING DOWELS WITH STANDARD HOOK SHALL MATCH SIZE AND SPACING OF VERTICAL REINFORCEMENT UNO. PROVIDE MINIMUM LAP W/ VERTICAL REINFORCEMENT AND EXTEND HOOKED END TO WITHIN 3" OF BOTTOM OF FOOTING UNO.
9. PROVIDE 2-#5 CONT IN BOND BEAM UNITS AT THE TOPS OF WALLS AND AT ALL ROOF LEDGER LOCATIONS
10. PROVIDE TEMPLATES AS REQUIRED TO SECURE BOLTS IN POSITION. PROVIDE 1" MIN GROUT AROUND BOLTS.
11. PROVIDE TEST AND INSPECTIONS IN COMPLIANCE WITH TMS 402/602 FOR LEVEL 2 QUALITY ASSURANCE.

## GENERAL NOTES:

1. ALL NEW WORK SHALL CONFORM TO TITLE 24 2022 EDITIONS WITH AMENDMENTS AND ALL OTHER APPLICABLE CODES AND REGULATIONS.
2. THIS SET OF STRUCTURAL DRAWINGS IS APPLICABLE ONLY FOR THE SITE NOTED IN 'ITEM 1' OF THE 'DESIGN CRITERIA' ON THIS SHEET.
3. NOTES ON THIS SHEET ARE TYPICAL AND SHALL APPLY UNLESS OTHERWISE NOTED OR SHOWN. TYPICAL DETAILS SHALL APPLY FOR ALL LIKE CONDITIONS UNLESS OTHERWISE NOTED OR DETAILED.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS, ELEVATIONS, EXISTING CONDITIONS, AND OTHER RELATED ITEMS. THE CONTRACTOR SHALL REVIEW THE CONTRACT DOCUMENTS PRIOR TO CONSTRUCTION AND SHALL NOTIFY THE ENGINEER OF RECORD IF ANY CONFLICTS ARE SHOWN OR NOTED.
5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFORM TO RELEVANT SECTIONS OF THE CALIFORNIA "CONSTRUCTION SAFETY ORDERS" AND ALL OSHA REQUIREMENTS. THE ENGINEER OF RECORD ACCEPTS NO RESPONSIBILITY FOR THE CONTRACTOR'S FAILURE TO COMPLY W/ THESE REQUIREMENTS.
6. STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE, AND DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION. DESIGN AND CONSTRUCTION OF ALL TEMPORARY BRACING, SHORING, FORMING, ETC REQUIRED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
7. A COPY OF TITLE 24 CCR PARTS 1 -5 SHALL BE KEPT ON SITE AT ALL TIMES (T-24 PART 1, 4-317(c).
8. ALL CHANGES TO THE ACCESSIBILITY, FIRE AND LIFE SAFETY, AND STRUCTURAL PORTIONS OF THE APPROVED DRAWINGS SHALL BE MADE BY A CONSTRUCTION CHANGE DOCUMENT (CCD). ALL SUCH CHANGES BY CCD ARE TO BE SIGNED BY THE SEOR, THE OWNER, AND APPROVED BY DSA. CHANGES BY CCD ARE NOT VALID UNTIL APPROVED BY DSA (T-24, PART 1, 4-338 AND DSA IR A-6).
9. A PROJECT INSPECTOR (INSPECTOR OF RECORD, IOR) EMPLOYED BY THE OWNER/DISTRICT AND CERTIFIED BY DSA SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. INSPECTOR TO BE CLASS 1 PER IR A-7.
10. THE STRUCTURAL ENGINEER SHALL PERFORM DUTIES PER T-24 PART 1, 4-333(a) AND 4-341. THE CONTRACTOR SHALL PERFORM DUTIES PER 4-343. THE IOR SHALL PERFORM DUTIES PER T-24 PART 1, 4-342.

## INSPECTION NOTES:

1. ALL TESTS AND INSPECTIONS ARE TO BE PROVIDED BY A QUALIFIED TESTING LAB OF RECORD, HIRED BY THE DISTRICT (T-24 PART 1, 4-335).
2. ALL TESTS AND INSPECTIONS SHALL CONFORM TO CHAPTER 17A OF THE 2022 CBC AND THE PROJECT SPECIFIC DSA-103.

## FOUNDATION NOTES:

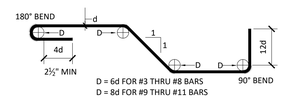
1. FOUNDATIONS ARE DESIGNED ACCORDING TO SECTION 5 OF THE DESIGN CRITERIA ON THIS SHEET.
2. FOOTINGS SHALL BEAR ON FIRM, DRY, COMPACTED SOIL.
3. FOOTING DEPTHS INDICATED ON PLANS ARE MINIMUMS. AREAS OF OVER-EXCAVATION SHALL BE BACKFILLED WITH COMPACTED FILL PER THE SOILS REPORT OR WITH LEAN CONCRETE HAVING A MINIMUM 28-DAY STRENGTH OF 1,000 PSI.
4. FOOTINGS MAY BE OVER-EXCAVATED AT CONTRACTOR'S OPTION FOR PLACEMENT OF LEAN MIX CONCRETE TO FACILITATE THE REMOVAL OF DEBRIS AND STANDING WATER.
5. ALL FOOTINGS NOT FORMED SHALL BE POURED IN NEAT EXCAVATIONS. BOTTOMS OF EXCAVATIONS SHALL BE LEVEL, WITH CHANGES IN ELEVATION ONLY AS NOTED IN THESE DRAWINGS.
6. SEOR SHALL BE NOTIFIED IMMEDIATELY WHERE JOB SITE CONDITIONS ARE DIFFERENT THAN THOSE SHOWN ON CONTRACT DRAWINGS.
7. SEOR SHALL BE NOTIFIED A MINIMUM OF 48-HOURS PRIOR TO THE PLACING OF CONCRETE SLABS AND FOUNDATIONS.
8. FOUNDATIONS ARE TO AS INDICATED ON THE FOUNDATION PLAN AND REFERENCED DETAILS.

## POST INSTALLED ANCHOR NOTES:

1. ALL POST INSTALLED ANCHORS ARE TO BE INSTALLED PER MANUFACTURER FOR EACH ANCHOR AND PER THE ICC REPORTS LISTED BELOW.
2. ALL POST-INSTALLED ANCHORS ARE TO BE CAREFULLY INSTALLED SO AS TO NOT DISTURB OR DAMAGE THE STEEL REINFORCING IN ANY WAY. ANCHORS MAY NOT BE INSTALLED UNTIL CONCRETE OR GROUT HAS REACHED A MINIMUM AGE OF 28 DAYS.
3. ALL HOLES FOR DRILLED-IN ANCHORS SHALL BE COMPLETELY DRY AND WELL CLEANED WITH A BOTTLE BRUSH AND COMPRESSED AIR PRIOR TO INSTALLING THE ANCHORS.
4. ALL DRILLED-IN ANCHORS SHALL BE TESTED PER CHAPTER 1910A OF THE 2022 CBC AND PER THE DSA-103. ALL TESTING SHALL BE DONE BY THE TESTING LABORATORY OF RECORD AND SHALL BE PERFORMED IN THE PRESENCE OF A SPECIAL INSPECTOR. ALL TESTING RESULTS SHALL BE SUBMITTED TO DSA AND TO THE ARCHITECT AND STRUCTURAL ENGINEER. TESTING SHALL OCCUR WITHIN 24 HOURS OF THE INSTALLATION OF EACH ANCHOR.
5. POST-INSTALLED ANCHORS ARE TO BE AS FOLLOWS:
   - A. EXPANSION ANCHORS IN CONCRETE — HILTI KB TZ2 PER ICC-ES ESR-4266
   - B. EXPANSION ANCHORS IN FULLY GROUTED CMU — HILTI KB TZ2 PER ICC-ES ESR-4561
   - B. EPOXY ANCHORS IN CONCRETE — HILTI HIT-HY 200 V3 PER ICC-ES ESR-4868
6. POST-INSTALLED ANCHORS ARE TO BE INSTALLED ONLY WHERE SPECIFICALLY DETAILED, WITH EMBEDMENTS AS SPECIFICALLY IDENTIFIED IN EACH APPLICABLE DETAIL. FOR ADDITIONAL INFORMATION FOR EXPANSION ANCHORS, SEE TABLE BELOW.
7. POST-INSTALLED ANCHORS MAY NOT BE USED AT LOCATIONS OTHER THAN THOSE SPECIFICALLY DETAILED IN THE PROJECT DRAWINGS WITHOUT PRIOR WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD.

CONCRETE: HILTI KWIK BOLT TZ2 EXPANSION ANCHORS - SEE ICC ESR-4266 TABLE 1

| ANCHOR DIAMETER | ⅜"Ø | ½"Ø | ⅝"Ø |
|---|---|---|---|
| BIT DIAMETER | ⅜"Ø | ½"Ø | ⅝"Ø |
| NOMINAL EMBEDMENT | 2½" | 2¾" | 4½" |
| HOLE DEPTH | 2½" | 2¾" | 4½" |
| TORQUE (STAINLESS STEEL) | 30 FT-LB | 40 FT-LB | 60 FT-LB |
| TORQUE (CARBON STEEL) | 30 FT-LB | 50 FT-LB | 40 FT-LB |




REINFORCING BARS & STANDARD HOOKS

NOTES:

1. THE ABOVE DETAILS ARE PROVIDED TO SPECIFY STAND REBAR BENDS AND BEND EXTENSIONS, TYP UNO.
2. ALL REBAR PLACEMENT IS TO BE AS SHOWN IN PROJECT DETAILS. SEE 'CONCRETE REINFORCING NOTES'.
3. NOT ALL CONDITIONS SHOWN ABOVE WILL APPLY TO THIS PROJECT.

STANDARD REBAR BENDS 1

## STRUCTURAL SHEET INDEX:


S0.01 TYPICAL STRUCTURAL NOTES
S1.01 CMU TRASH ENCLOSURE PLANS, ELEVATIONS & DETAILS


## DESIGN CRITERIA:

1. PROJECT ADDRESS: 2801 WEST VINE STREET, LODI, CA 95242
2. BUILDING CODE: 2022 CALIFORNIA BUILDING CODE
3. GRAVITY LOADS:
   WALL WEIGHTS — CMU WALLS = 80 PSF
4. LATERAL LOADS: RISK CATEGORY II

   WIND LOADS (ASCE 7-16)

   BASIC WIND SPEED 93 MPH (71 MPH ASD)
   EXPOSURE C

   PRESSURE COEFFICIENTS

   INTERNAL PRESSURE COEFFICIENT, $GC_{pi}$ = ± 0.18
   TOPOGRAPHIC FACTOR, $K_{zt}$ = 1.00
   WIND DIRECTIONALITY FACTOR, $K_d$ = 0.85

   VELOCITY PRESSURES

   q (0'-15') = 9.6 PSF (ASD)
   q (15'-20') = 10.2 PSF (ASD)

   SEISMIC LOADS (ASCE 7-16)

   SITE CLASS D
   SEISMIC DESIGN CATEGORY D
   IMPORTANCE FACTOR 1.00

   $S_s$ = 0.643 $S_1$ = 0.264
   $F_a$ = 1.285 $F_v$ = 2.072
   $S_{MS}$ = 0.827 $S_{M1}$ = 0.821
   $S_{DS}$ = 0.551 $S_{D1}$ = 0.547

   GROUND SUPPORTED CANTILEVERED WALLS (ASCE 7-16 TABLE 15.4-2)

   R = 1.25 $C_t = \frac{S_{DS}}{(R / I)}$
   $\Omega_0$ = 2.0
   $C_s$ = 2.50 = 0.245
   ρ = 1.0 V(ASD) = 0.7 x ρ x $C_t$ x W
   = 0.223 x W
5. GEOTECHNICAL CRITERIA:

   GEOTECHNICAL AND GEOHAZARDS REPORT BY MID PACIFIC ENGINEERING, REPORT NO. 07246-01, DATED SEPTEMBER 8, 2025.

   ALLOWABLE BEARING PRESSURE (D+L) = 2,500 PSF
   (INCLUDING W OR E) = 3,300 PSF
   PASSIVE PRESSURE = 150 PCF
   (HALF INCH DEFLECTION ALLOWED AT SURFACE) 300 PCF
   (⅓ INCREASED ALLOWED FOR SHORT TERM LOADS) 400 PCF

## ABBREVIATIONS:

| | |
|---|---|
| @ | AT |
| AB | ANCHOR BOLT |
| ACI | AMERICAN CONCRETE INSTITUTE |
| AISC | AMERICAN INSTITUTE OF STEEL CONSTRUCTION |
| AISI | AMERICAN IRON AND STEEL INSTITUTE |
| ARCH | ARCHITECT/ARCHITECTURAL |
| ASTM | AMERICAN SOCIETY OF TESTING AND MATERIALS |
| AWS | AMERICAN WELDING SOCIETY |
| B.O. | BOTTOM OF |
| C | CHANNEL |
| CBC | CALIFORNIA BUILDING CODE |
| CL | CENTERLINE |
| cc | CENTER TO CENTER |
| CFS | COLD-FORMED STEEL |
| CONT | CONTINUOUS |
| Ø | DIAMETER |
| DWGS | DRAWINGS |
| DSA | DIVISION OF THE STATE ARCHITECT |
| F.O. | FACE OF |
| HSS | HOLLOW STRUCTURAL SECTION |
| L | STEEL ANGLE |
| MAX | MAXIMUM |
| MIN | MINIMUM |
| NTS | NOT TO SCALE |
| # | NUMBER OR POUNDS |
| OH | OPPOSITE HAND |
| PAF | POWDER-ACTUATED FASTENER |
| PL | PLATE |
| SEOR | STRUCTURAL ENGINEER OF RECORD |
| SMS | SHEET METAL SCREW |
| T & B | TOP AND BOTTOM |
| THRU | THROUGH |
| T.O. | TOP OF |
| TYP | TYPICAL |
| UNO | UNLESS NOTED OTHERWISE |
| W | WIDE FLANGE |
| w/ | WITH |

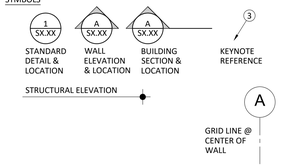
## DRAWING STANDARDS:

SHEET NUMBERING

- STRUCTURAL SHEETS
- DRAWING TYPE
  - 0 TYPICAL NOTES & DETAILS
  - 2 FOUNDATION & ROOF FRAMING PLANS
  - 3 SECTIONS & ELEVATIONS
  - 4 DETAILS
- SHEET NUMBER WITHIN ABOVE DESIGNATIONS

S2.01

SYMBOLS




MATERIAL LEGEND

PLEASE RECYCLE

AGENCY APPROVAL:

LODI USD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ISSUE

| Δ | DESCRIPTION | DATE |
|---|---|---|


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WEST SACRAMENTO, CA 95691
916.716.6910


REGISTERED PROFESSIONAL ENGINEER GREGORY T. RICHARDS 24452 STRUCTURAL STATE OF CALIFORNIA

2/6/2026

FACILITY:

**SAMUEL M. GANTNER ELEMENTARY SCHOOL**
**2801 W VINE STREET**
**LODI, CA 95242**

PROJECT:

**SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1**

SHEET NAME:

**TYPICAL STRUCTURAL NOTES**

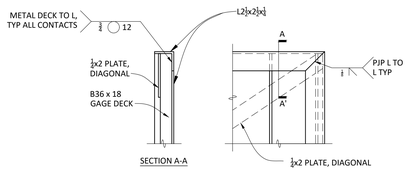
**DSA SUBMITTAL**

DATE: **2025.12.09** CLIENT PROJ NO: **3431-010-000**

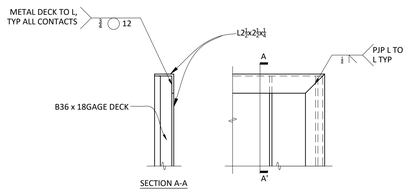
SHEET:

# S0.01

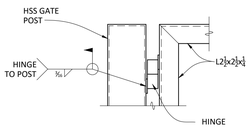
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ANSI SIZE D ORIGINAL MADE SIZE



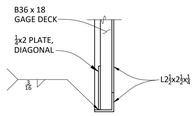

GATE DETAIL 6
1½" = 1'-0"



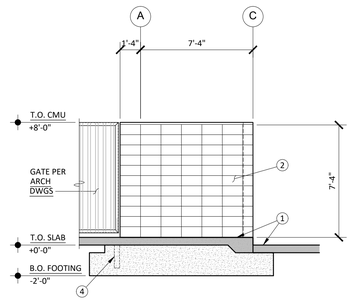

GATE DETAIL 7
1½" = 1'-0"



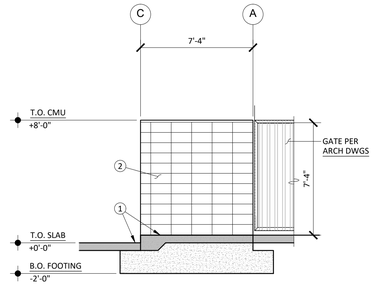

GATE DETAIL 8
1½" = 1'-0"



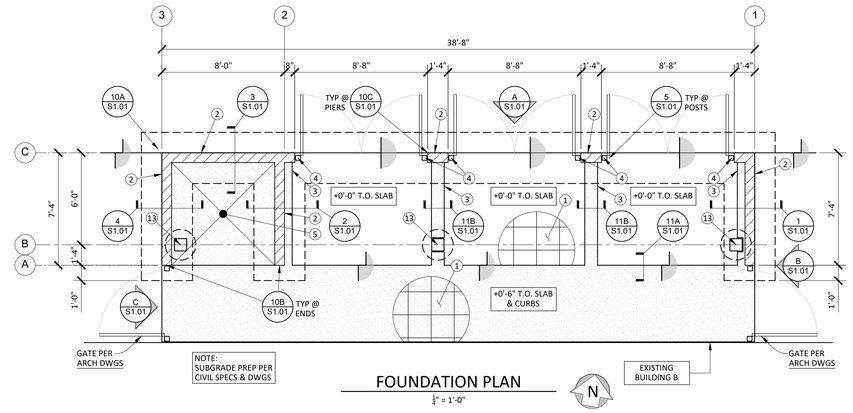

GATE DETAIL 9
1½" = 1'-0"



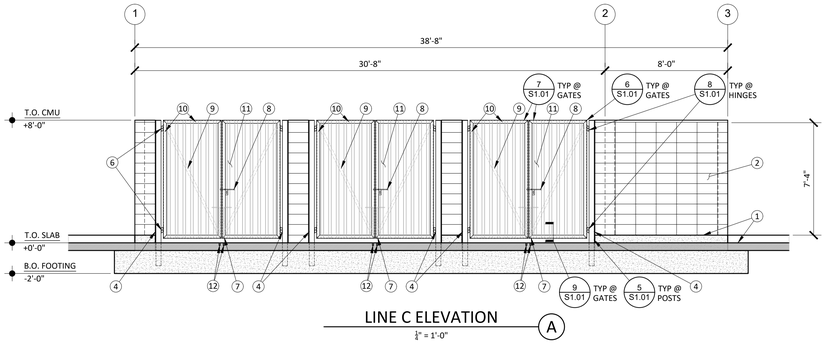

LINE 1 ELEVATION B
¼" = 1'-0"




LINE 3 ELEVATION C
¼" = 1'-0"




FOUNDATION PLAN
¼" = 1'-0"




LINE C ELEVATION A
¼" = 1'-0"

## FOUNDATION PLAN NOTES:

1. REFER TO CIVIL DRAWINGS, PROJECT SPECIFICATIONS & GEOTECHNICAL REPORT FOR PREPARATION OF BUILDING PAD.
2. REFER TO SHEET S0.01 FOR TYPICAL STRUCTURAL NOTES.
3. CONTRACTOR SHALL COORDINATE ALL WORK CONTAINED HEREIN WITH ALL PROJECT WORK BY OTHERS INCLUDING CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMPING & LANDSCAPE. ALL EXTERIOR CONCRETE WORK IS PER CIVIL / ARCHITECTURAL SITE PLAN.
4. DIMENSIONS ARE TO FACE OF CMU WALLS AND CENTERLINE OF POSTS, UNO. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS & NOTIFY ARCHITECT IMMEDIATELY IF ANY DISCREPANCIES ARE FOUND.

## FOUNDATION PLAN LEGEND:

CMU WALL w/ CURB ON MATT SLAB

PIER FOOTING

POST / PIPE

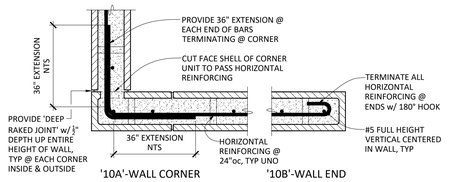
## KEY NOTES:

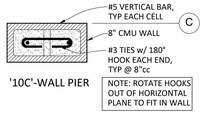
1. 6" THICK SLAB w/ #5 BARS @ 18"oc EACH WAY CENTERED IN DEPTH OF MAT SLAB
2. 8" FULLY GROUTED CMU WALL CONSTRUCTED AS STACKED BOND w/ #5 VERTICAL BARS @ 16"oc & #5 HORIZONTAL BARS @ 16"oc - ALL HORIZONTAL BARS ARE TO TERMINATE w/ A 180° HOOK
3. 6" HIGH CURB, TYP
4. HSS4x4x¼ GATE POST - EMBED IN FOOTING AS SHOWN
5. SLOPE SLAB TO DRAIN - SEE ARCH DWGS
6. HINGE - SEE ARCH DWGS
7. CANE BOLT - SEE ARCH DWGS
8. SLIDE BOLT - SEE ARCH DWGS
9. ½x2 PLATE, DIAGONAL
10. L2½x2½x¼
11. B36 x 18 GAGE DECK - WELD TO ALL SUPPORTS PER 6/S1.01
12. CANE BOLT SLEEVE
13. HSS 8x8 POST & PILE FOOTING PER PC SHADE STRUCTURE DRAWINGS

ALL STEEL POSTS AND GATES SHALL BE GALVANIZED

## SEISMIC LOAD RESISTING SYSTEM (SLRS):

ASCE 7-16 TABLE 15.4-2: GROUND SUPPORTED CANTILEVER WALLS OR FENCES (ASCE 7-16 TABLE 15.4-2)

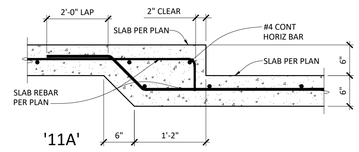


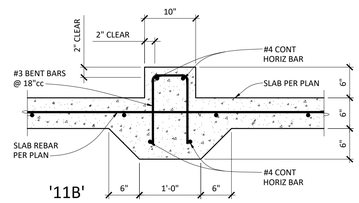




NOTES:

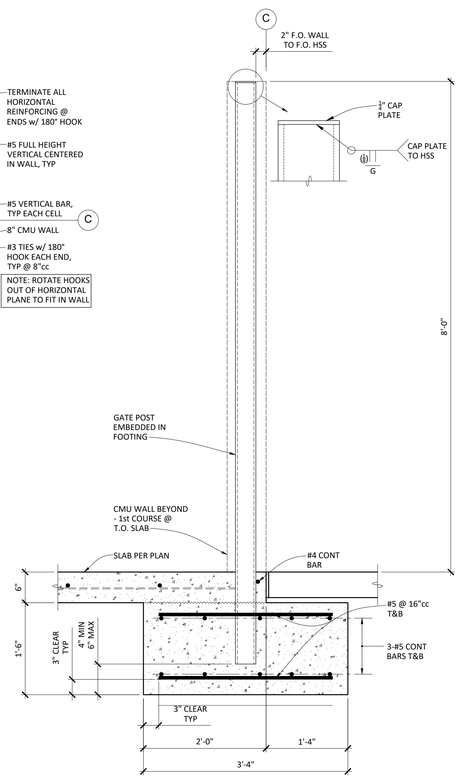
1. CMU WALLS ARE FULLY GROUTED.
2. DETAIL '10A' APPLIES AT ALL CORNERS. DETAIL '10B' APPLIES AT ALL WALL ENDS.
2. PROVIDE FLEXIBLE SEALANT (SIKA FLEX OR EQUAL) @ RAKED JOINTS.

TYPICAL CMU WALL REINFORCING
1" = 1'-0"

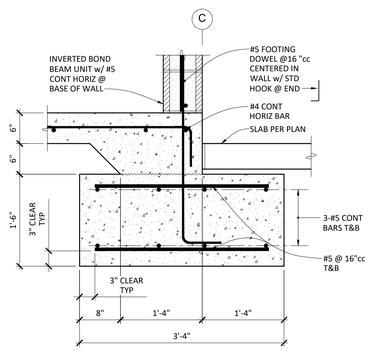


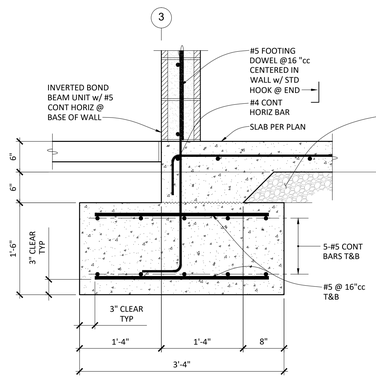

SLAB STEP
1" = 1'-0"



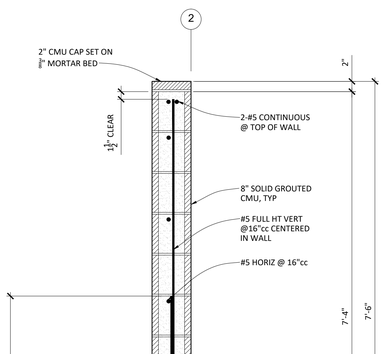

WALL & SLAB SECTION 5
1" = 1'-0"



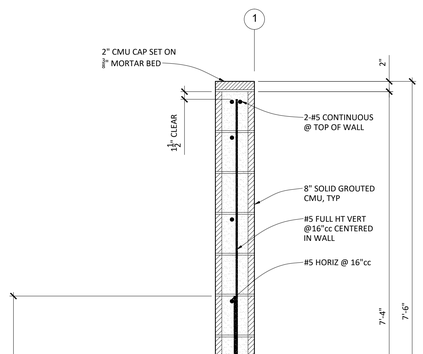

WALL & SLAB SECTION 3
1" = 1'-0"




WALL & SLAB SECTION 4
1" = 1'-0"




WALL & SLAB SECTION 2
1" = 1'-0"




WALL & SLAB SECTION 1
1" = 1'-0"

PLEASE RECYCLE

AGENCY APPROVAL:

LODI USD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| 1 | PC COMMENTS | OCTOBER 29, 2024 |


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REGISTERED PROFESSIONAL ENGINEER ROBERT T. WOMACK No. 54454 STRUCTURAL STATE OF CALIFORNIA
2/6/2026

FACILITY:

**SAMUEL M. GANTNER ELEMENTARY SCHOOL**
**2801 W VINE STREET**
**LODI, CA 95242**

PROJECT:

**SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1**

SHEET NAME:

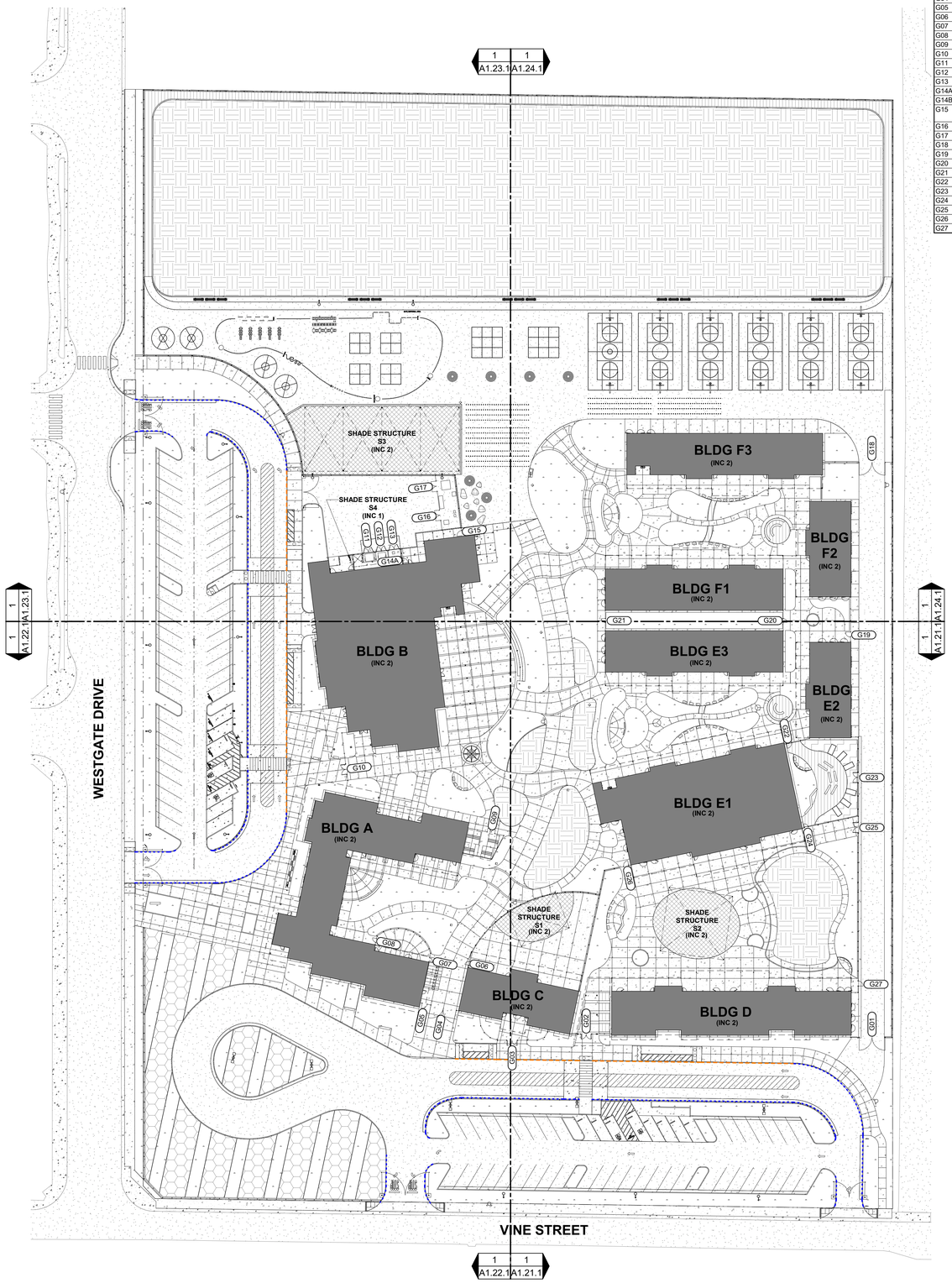
**CMU TRASH ENCLOSURE PLANS, ELEVATIONS & DETAILS**

**DSA SUBMITTAL**

DATE: **2025.12.09**
CLIENT PROJ NO: **3431-010-000**
SHEET:

# S1.01

THE LINE SHOWN ABOVE IS 1" LONG WHEN PRINTED AT THIS SHEET'S ORIGINAL PAGE SIZE




## GATE SCHEDULE

| NUMBER | WIDTH | PANEL 1 | PANEL 2 | HEIGHT | MATERIAL | HARDWARE GROUP | PANIC | DETAIL | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|
| G01 | 20'-0" | 10'-0" | 10'-0" | 7'-0" | DECORATIVE METAL | 09 | No | 17/A10.04.1 | |
| G02 | 8'-0" | 4'-0" | 4'-0" | 7'-0" | DECORATIVE METAL | 08 | Yes | 8/A10.04.1 | CARD READER |
| G03 | 8'-0" | 4'-0" | 4'-0" | 7'-0" | DECORATIVE METAL | 08 | Yes | 8/A10.04.1 | CARD READER |
| G04 | 20'-0" | 10'-0" | 10'-0" | 7'-0" | DECORATIVE METAL | 09 | No | 17/A10.04.1 | |
| G05 | 4'-0" | 4'-0" | | 7'-0" | DECORATIVE METAL | 01 | Yes | 6/A10.04.1 | CARD READER |
| G06 | 4'-0" | 4'-0" | | 4'-0" | DECORATIVE METAL | 03 | Yes | 7/A10.04.1 | |
| G07 | 4'-0" | 4'-0" | | 6'-0" | PERFORATED METAL | 04 | Yes | 9/A10.04.1 | |
| G08 | 4'-0" | 4'-0" | | 6'-0" | PERFORATED METAL | 04 | Yes | 9/A10.04.1 | |
| G09 | 8'-0" | 4'-0" | 4'-0" | 7'-0" | CHAIN LINK | 09 | No | 3/A10.03.1 | |
| G10 | 8'-0" | 4'-0" | 4'-0" | 7'-0" | DECORATIVE METAL | 08 | Yes | 8/A10.04.1 | |
| G11 | 8'-0" | 4'-0" | 4'-0" | 8'-0" | CORRIGATED METAL | 09 | No | 1/A10.05.1 | |
| G12 | 8'-0" | 4'-0" | 4'-0" | 8'-0" | CORRIGATED METAL | 09 | No | 1/A10.05.1 | |
| G13 | 8'-0" | 4'-0" | 4'-0" | 8'-0" | CORRIGATED METAL | 09 | No | 1/A10.05.1 | |
| G14A | 4'-0" | 4'-0" | | 7'-6" | CORRIGATED METAL | 05 | No | 2/A10.05.1 | |
| G14B | 4'-0" | 4'-0" | | 7'-6" | CORRIGATED METAL | 05 | Yes | 2/A10.05.1 | |
| G15 | 4'-0" | 4'-0" | | 7'-0" | CHAIN LINK | 02 | Yes | 11/A10.03.1 | WITH SLATS, CARD READER |
| G16 | 8'-0" | 4'-0" | 4'-0" | 7'-0" | CHAIN LINK | 09 | No | 3/A10.03.1 | WITH SLATS |
| G17 | 8'-0" | 4'-0" | 4'-0" | 7'-0" | CHAIN LINK | 09 | No | 3/A10.03.1 | WITH SLATS |
| G18 | 20'-0" | 10'-0" | 10'-0" | 7'-0" | CHAIN LINK | 09 | No | 3/A10.03.1 | WITH SLATS |
| G19 | 4'-0" | 4'-0" | | 7'-0" | DECORATIVE METAL | 07 | No | 7/A10.04.1 | |
| G20 | 4'-0" | 4'-0" | | 7'-0" | CHAIN LINK | 06 | No | 2/A10.03.1 | |
| G21 | 4'-0" | 4'-0" | | 7'-0" | CHAIN LINK | 06 | No | 2/A10.03.1 | |
| G22 | 4'-0" | 4'-0" | | 4'-0" | CHAIN LINK | 03 | Yes | 11/A10.03.1 | |
| G23 | 4'-0" | 4'-0" | 4'-0" | 4'-0" | DECORATIVE METAL | 07 | No | 7/A10.04.1 | |
| G24 | 4'-0" | 4'-0" | | 4'-0" | DECORATIVE METAL | 03 | Yes | 7/A10.04.1 | |
| G25 | 8'-0" | 4'-0" | 4'-0" | 4'-0" | DECORATIVE METAL | 10 | No | 17/A10.04.1 | |
| G26 | 4'-0" | 4'-0" | | 4'-0" | DECORATIVE METAL | 03 | Yes | 7/A10.04.1 | |
| G27 | 4'-0" | 4'-0" | | 4'-0" | DECORATIVE METAL | 03 | Yes | 7/A10.04.1 | |

## LEGEND

- PROPERTY LINE
- MATCHLINE
- RED PAINTED FIRE LANE CURB, SEE CIVIL
- DROP-OFF LANE CURB PAINTING, SEE CIVIL
- NEW BUILDING (INC 2)
- CONCRETE, SEE CIVIL
- ASPHALT, SEE CIVIL
- GRASS, SEE LANDSCAPE
- ARTIFICIAL TURF, SEE LANDSCAPE
- PLANTING, SEE LANDSCAPE
- GRAVEL, SEE LANDSCAPE
- DECOMPOSED GRAVEL, SEE LANDSCAPE
- WALK-ON BARK. SEE LANDSCAPE
- CHAINLINK FENCE
- DECORATE METAL FENCING
- PERFORATED METAL FENCING

TN

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

**AGENCY APPROVAL:**

LODI USD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LICENSED ARCHITECT
JENNIFER PEARSON-HUMES
C-35691
REN. 05/31/27
STATE OF CALIFORNIA

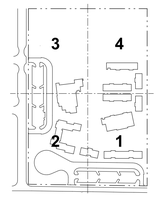
**ISSUE**

| Δ | DESCRIPTION | DATE |
|---|---|---|

## NOTES

1. REFER TO SHEET G0.11.1 FOR TYPICAL SYMBOLS AND ABBREVIATIONS
2. REFER TO LANDSCAPE DRAWINGS FOR PAVING AND PLANTING INFORMATION
3. REFER TO CIVIL AND ELECTRICAL 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

## KEY PLAN




FACILITY:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL**
**2801 W. VINE STREET**
**LODI, CA 95242**

PROJECT:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC. 1**

SHEET NAME:
**CAMPUS SITE PLAN**

**DSA SUBMITTAL**

DATE: **2025.12.09** | CLIENT PROJ NO:

SHEET:

# A1.11.1

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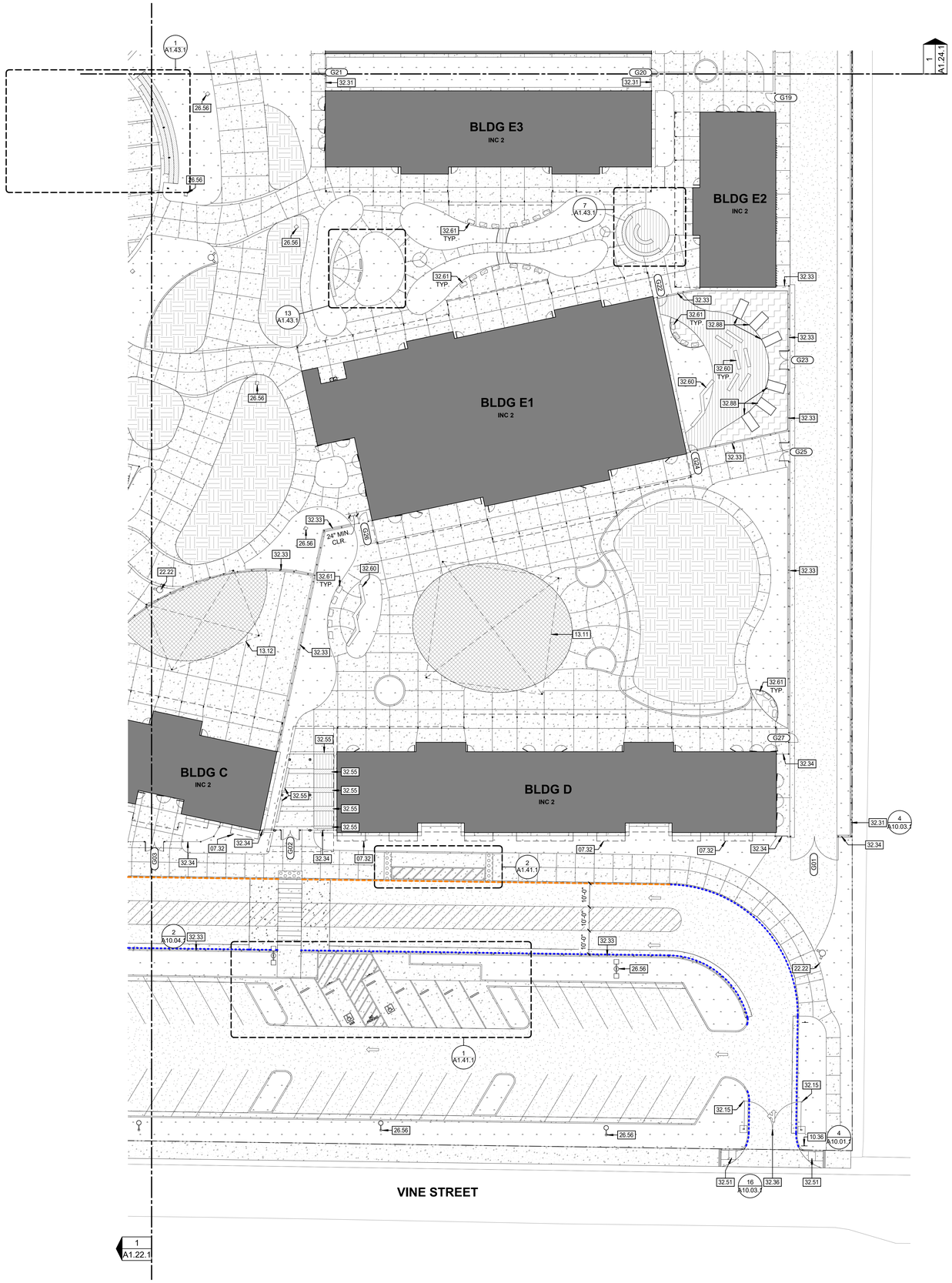



## LEGEND

- PROPERTY LINE
- MATCHLINE
- RED PAINTED FIRE LANE CURB, SEE CIVIL
- DROP-OFF LANE CURB PAINTING, SEE CIVIL
- NEW BUILDING (INC 2)
- CONCRETE, SEE CIVIL
- ASPHALT, SEE CIVIL
- GRASS, SEE LANDSCAPE
- ARTIFICIAL TURF, SEE LANDSCAPE
- PLANTING, SEE LANDSCAPE
- GRAVEL, SEE LANDSCAPE
- DECOMPOSED GRAVEL, SEE LANDSCAPE
- WALK-ON BARK. SEE LANDSCAPE
- CHAINLINK FENCE
- DECORATE METAL FENCING
- PERFORATED METAL FENCING

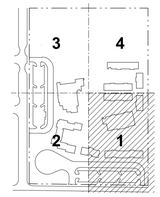
## KEYNOTES

| | |
|---|---|
| 07.32 | CANOPY OVERHANG BOUNDARY \| INC 2 |
| 10.36 | TOW-AWAY SIGN |
| 13.11 | 40' X 40' PC SHADE STRUCTURE \| INC 2 |
| 13.12 | 40' X 30' PC SHADE STRUCTURE \| INC 2 |
| 22.22 | FIRE HYDRANT \| SEE CIVIL |
| 26.56 | LIGHT POLE \| ELEC |
| 32.15 | SWING ARM BARRIER GATE BOLLARD |
| 32.31 | 7'-0" HIGH CHAIN LINK FENCING |
| 32.33 | 4'-0" HIGH DECORATIVE METAL FENCING |
| 32.34 | 7'-0" HIGH DECORATIVE METAL FENCING |
| 32.36 | SWING ARM BARRIER GATE - DOUBLE |
| 32.51 | TRUNCATED DOMES / DETECTABLE WARNINGS \| CIVIL |
| 32.55 | PRECAST CONCRETE BENCH \| LANDSCAPE |
| 32.60 | SITE FURNISHING \| LANDSCAPE |
| 32.61 | SEATING STONE \| LANDSCAPE |
| 32.88 | PLANTER BOX \| LANDSCAPE |

## NOTES

1. REFER TO SHEET G0.11.1 FOR TYPICAL SYMBOLS AND ABBREVIATIONS
2. REFER TO LANDSCAPE DRAWINGS FOR PAVING AND PLANTING INFORMATION
3. REFER TO CIVIL AND ELECTRICAL 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

## KEY PLAN




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

AGENCY APPROVAL:

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**ISSUE**

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|---|---|---|

FACILITY:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL**
**2801 W. VINE STREET**
**LODI, CA 95242**

PROJECT:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC. 1**

SHEET NAME:
**PARTIAL SITE PLAN - SEGMENT 1**

**DSA SUBMITTAL**

DATE: **2025.12.09** | CLIENT PROJ NO:

SHEET:

# A1.21.1

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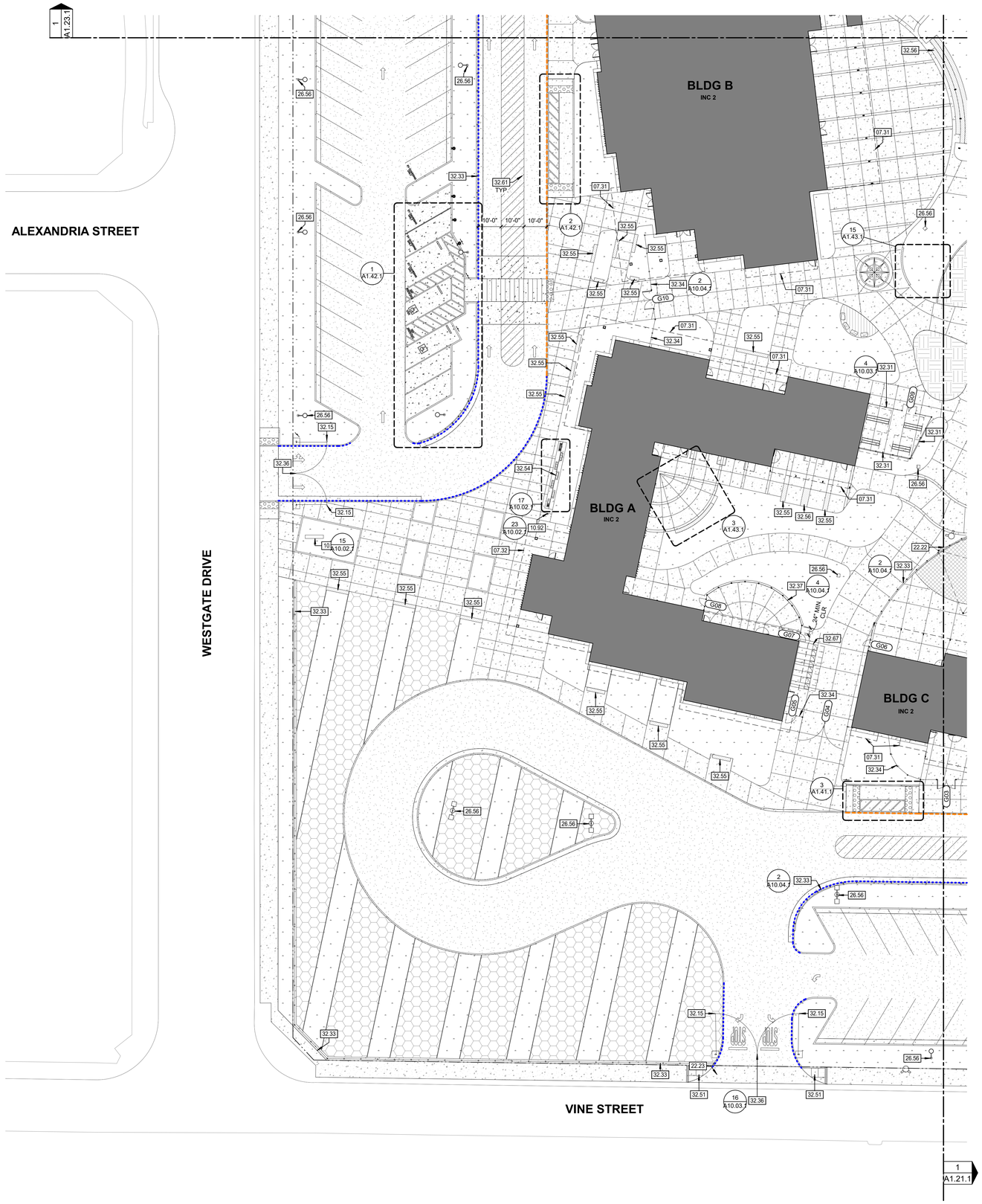



## LEGEND

- PROPERTY LINE
- MATCHLINE
- RED PAINTED FIRE LANE CURB, SEE CIVIL
- DROP-OFF LANE CURB PAINTING, SEE CIVIL
- NEW BUILDING (INC 2)
- CONCRETE, SEE CIVIL
- ASPHALT, SEE CIVIL
- GRASS, SEE LANDSCAPE
- ARTIFICIAL TURF, SEE LANDSCAPE
- PLANTING, SEE LANDSCAPE
- GRAVEL, SEE LANDSCAPE
- DECOMPOSED GRAVEL, SEE LANDSCAPE
- WALK-ON BARK. SEE LANDSCAPE
- CHAINLINK FENCE
- DECORATE METAL FENCING
- PERFORATED METAL FENCING

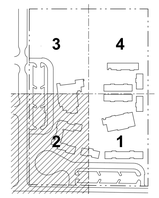
## KEYNOTES

| | |
|---|---|
| 07.31 | ROOF OVERHANG BOUNDARY \| INC 2 |
| 07.32 | CANOPY OVERHANG BOUNDARY \| INC 2 |
| 10.39 | MARQUEE SIGN |
| 10.92 | FLAGPOLE |
| 22.22 | FIRE HYDRANT \| SEE CIVIL |
| 22.23 | EXISTING FIRE HYDRANT |
| 26.56 | LIGHT POLE \| ELEC |
| 32.15 | SWING ARM BARRIER GATE BOLLARD |
| 32.31 | 7'-0" HIGH CHAIN LINK FENCING |
| 32.33 | 4'-0" HIGH DECORATIVE METAL FENCING |
| 32.34 | 7'-0" HIGH DECORATIVE METAL FENCING |
| 32.36 | SWING ARM BARRIER GATE - DOUBLE |
| 32.37 | 6'-0" HIGH PERFORATED METAL FENCING |
| 32.51 | TRUNCATED DOMES / DETECTABLE WARNINGS \| CIVIL |
| 32.54 | PRECAST CONCRETE MONUMENT SIGN \| STRUCTURAL |
| 32.55 | PRECAST CONCRETE BENCH \| LANDSCAPE |
| 32.56 | CAST-IN-PLACE CONCRETE AMPHITHEATER SEATING |
| 32.61 | SEATING STONE \| LANDSCAPE |
| 32.67 | BIKE PARKING \| LANDSCAPE |

## NOTES

1. REFER TO SHEET G0.11.1 FOR TYPICAL SYMBOLS AND ABBREVIATIONS
2. REFER TO LANDSCAPE DRAWINGS FOR PAVING AND PLANTING INFORMATION
3. REFER TO CIVIL AND ELECTRICAL 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

## KEY PLAN




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

AGENCY APPROVAL:

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FACILITY:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL**
**2801 W. VINE STREET**
**LODI, CA 95242**

PROJECT:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC. 1**

SHEET NAME:
**PARTIAL SITE PLAN - SEGMENT 2**

**DSA SUBMITTAL**

DATE: **2025.12.09** | CLIENT PROJ NO:

SHEET:

# A1.22.1

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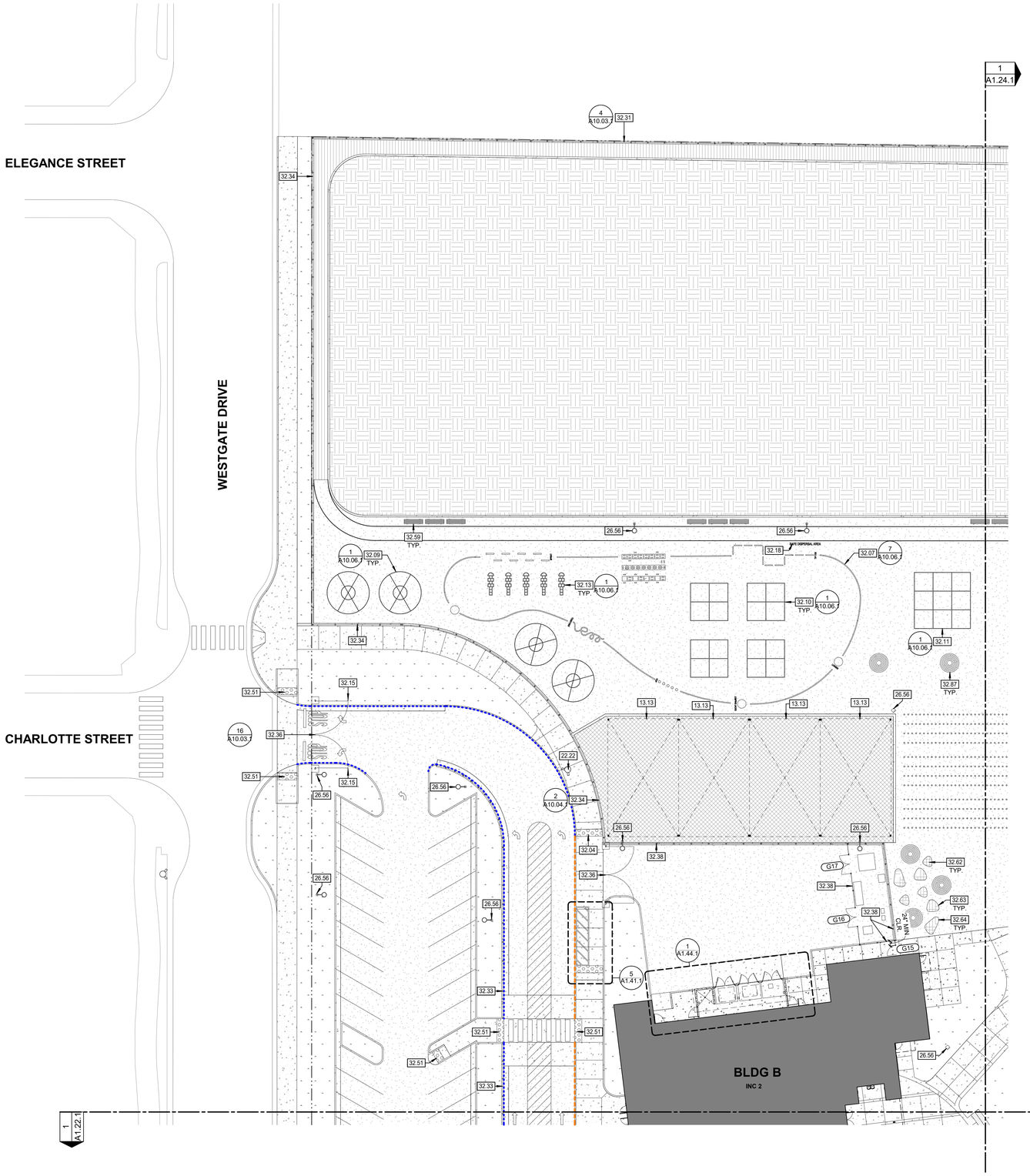


## LEGEND

- PROPERTY LINE
- MATCHLINE
- RED PAINTED FIRE LANE CURB, SEE CIVIL
- DROP-OFF LANE CURB PAINTING, SEE CIVIL
- NEW BUILDING (INC 2)
- CONCRETE, SEE CIVIL
- ASPHALT, SEE CIVIL
- GRASS, SEE LANDSCAPE
- ARTIFICIAL TURF, SEE LANDSCAPE
- PLANTING, SEE LANDSCAPE
- GRAVEL, SEE LANDSCAPE
- DECOMPOSED GRAVEL, SEE LANDSCAPE
- WALK-ON BARK. SEE LANDSCAPE
- CHAINLINK FENCE
- DECORATE METAL FENCING
- PERFORATED METAL FENCING

**AGENCY APPROVAL:**

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**ISSUE**

| Δ | DESCRIPTION | DATE |
|---|---|---|

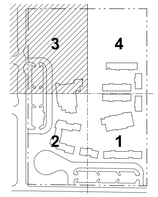
## KEYNOTES

| | |
|---|---|
| 13.13 | 50' X 30' PC SHADE STRUCTURE \| INC 2 |
| 22.22 | FIRE HYDRANT \| SEE CIVIL |
| 26.56 | LIGHT POLE \| ELEC |
| 32.04 | TRUNCATED DOMES \| CIVIL |
| 32.07 | CHALLENGE COURSE |
| 32.09 | TETHERBALL GAME LINES |
| 32.10 | FOUR SQUARE GAME LINES |
| 32.11 | NINE SQUARE GAME LINES |
| 32.13 | HOP SCOTCH GAME LINES |
| 32.15 | SWING ARM BARRIER GATE BOLLARD |
| 32.18 | 18" HIGH PAINTED "SAFE DISPERSAL AREA" |
| 32.31 | 7'-0" HIGH CHAIN LINK FENCING |
| 32.33 | 4'-0" HIGH DECORATIVE METAL FENCING |
| 32.34 | 7'-0" HIGH DECORATIVE METAL FENCING |
| 32.36 | SWING ARM BARRIER GATE - DOUBLE |
| 32.38 | 7'-0" HIGH HIGH CHAIN LINK FENCING WITH PRIVACY SLATS |
| 32.51 | TRUNCATED DOMES / DETECTABLE WARNINGS \| CIVIL |
| 32.59 | BENCH \| LANDSCAPE |
| 32.62 | PRECAST CONCRETE SEATING STONE TYPE ZB.GL.01 \| LANDSCAPE |
| 32.63 | PRECAST CONCRETE SEATING STONE TYPE ZB.GL.02 \| LANDSCAPE |
| 32.64 | PRECAST CONCRETE SEATING STONE TYPE ZB.GL.03 \| LANDSCAPE |
| 32.87 | TREE GRATE \| LANDSCAPE |

## NOTES

1. REFER TO SHEET G0.11.1 FOR TYPICAL SYMBOLS AND ABBREVIATIONS
2. REFER TO LANDSCAPE DRAWINGS FOR PAVING AND PLANTING INFORMATION
3. REFER TO CIVIL AND ELECTRICAL 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

## KEY PLAN




FACILITY:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL**
**2801 W. VINE STREET**
**LODI, CA 95242**

PROJECT:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC. 1**

SHEET NAME:
**PARTIAL SITE PLAN - SEGMENT 3**

**DSA SUBMITTAL**

DATE: **2025.12.09**
CLIENT PROJ NO:

SHEET:
**A1.23.1**

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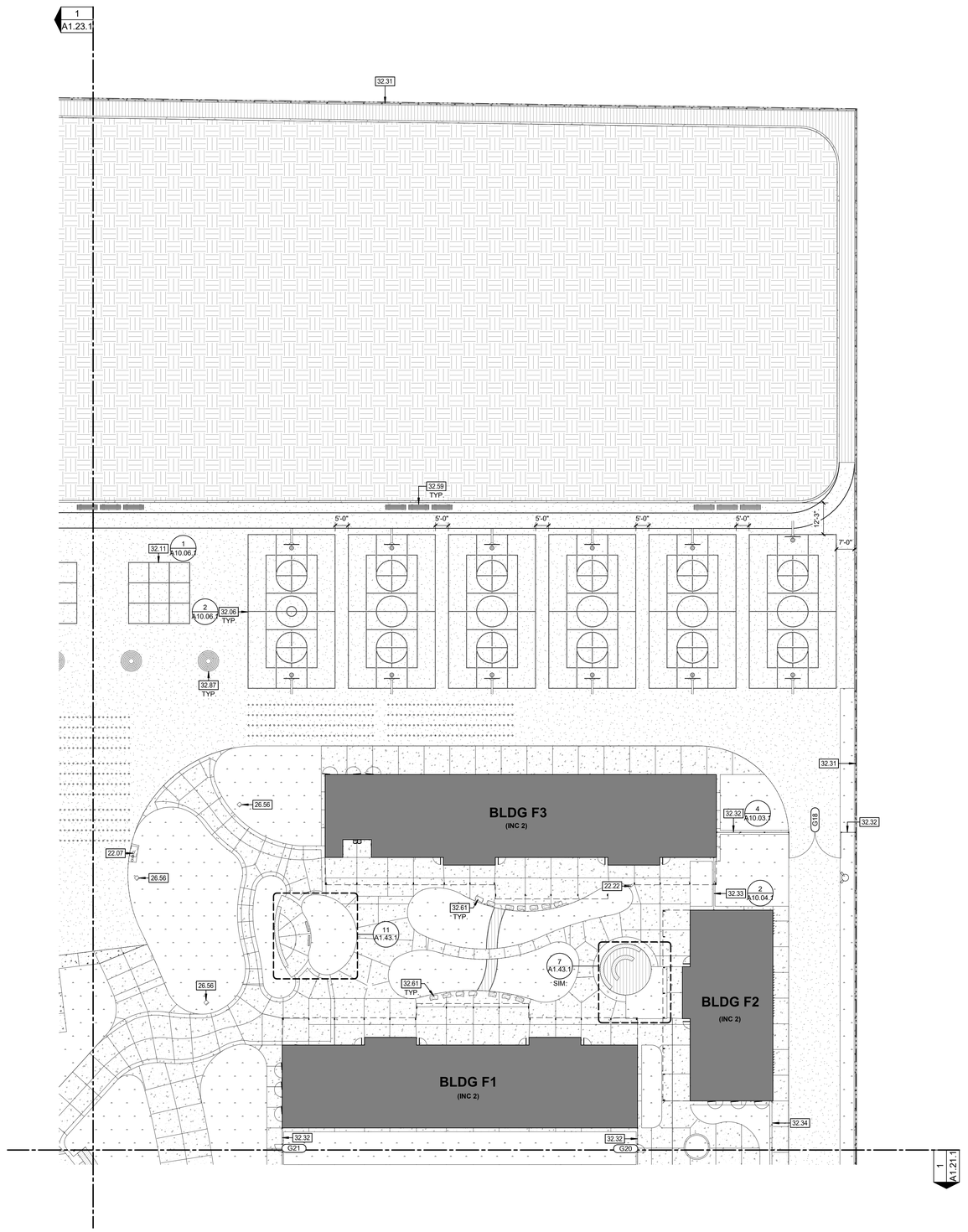



## LEGEND

- PROPERTY LINE
- MATCHLINE
- RED PAINTED FIRE LANE CURB, SEE CIVIL
- DROP-OFF LANE CURB PAINTING, SEE CIVIL
- NEW BUILDING (INC 2)
- CONCRETE, SEE CIVIL
- ASPHALT, SEE CIVIL
- GRASS, SEE LANDSCAPE
- ARTIFICIAL TURF, SEE LANDSCAPE
- PLANTING, SEE LANDSCAPE
- GRAVEL, SEE LANDSCAPE
- DECOMPOSED GRAVEL, SEE LANDSCAPE
- WALK-ON BARK. SEE LANDSCAPE
- CHAINLINK FENCE
- DECORATE METAL FENCING
- PERFORATED METAL FENCING

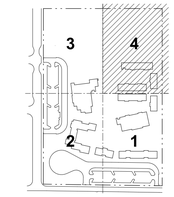
## KEYNOTES

| | |
|---|---|
| 22.07 | ACCESSIBLE "HI-LO" DRINKING FOUNTAIN \| LANDSCAPE |
| 22.22 | FIRE HYDRANT \| SEE CIVIL |
| 26.56 | LIGHT POLE \| ELEC |
| 32.06 | BASKETBALL GAME LINES \| XX/A10.XX |
| 32.11 | NINE SQUARE GAME LINES |
| 32.31 | 7'-0" HIGH CHAIN LINK FENCING |
| 32.32 | CHAIN LINK FENCING, COATED \| LANDSCAPE |
| 32.33 | 4'-0" HIGH DECORATIVE METAL FENCING |
| 32.34 | 7'-0" HIGH DECORATIVE METAL FENCING |
| 32.59 | BENCH \| LANDSCAPE |
| 32.61 | SEATING STONE \| LANDSCAPE |
| 32.87 | TREE GRATE \| LANDSCAPE |

## NOTES

1. REFER TO SHEET G0.11.1 FOR TYPICAL SYMBOLS AND ABBREVIATIONS
2. REFER TO LANDSCAPE DRAWINGS FOR PAVING AND PLANTING INFORMATION
3. REFER TO CIVIL AND ELECTRICAL 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

## KEY PLAN




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

AGENCY APPROVAL:

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**ISSUE**

| Δ | DESCRIPTION | DATE |
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FACILITY:
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**2801 W. VINE STREET**
**LODI, CA 95242**

PROJECT:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC. 1**

SHEET NAME:
**PATRIAL SITE PLAN - SEGMENT 4**

**DSA SUBMITTAL**

DATE: **2025.12.09** | CLIENT PROJ NO:

SHEET:

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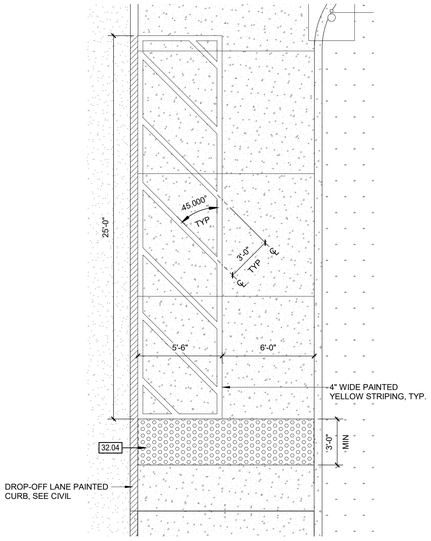
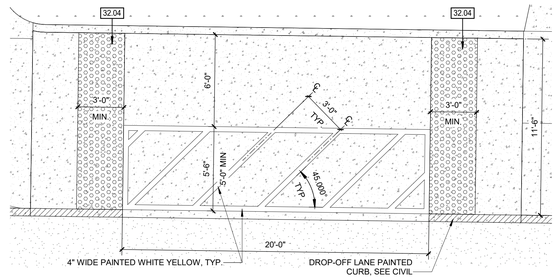
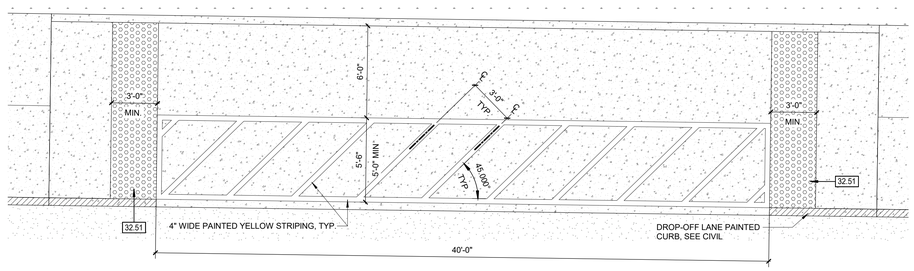


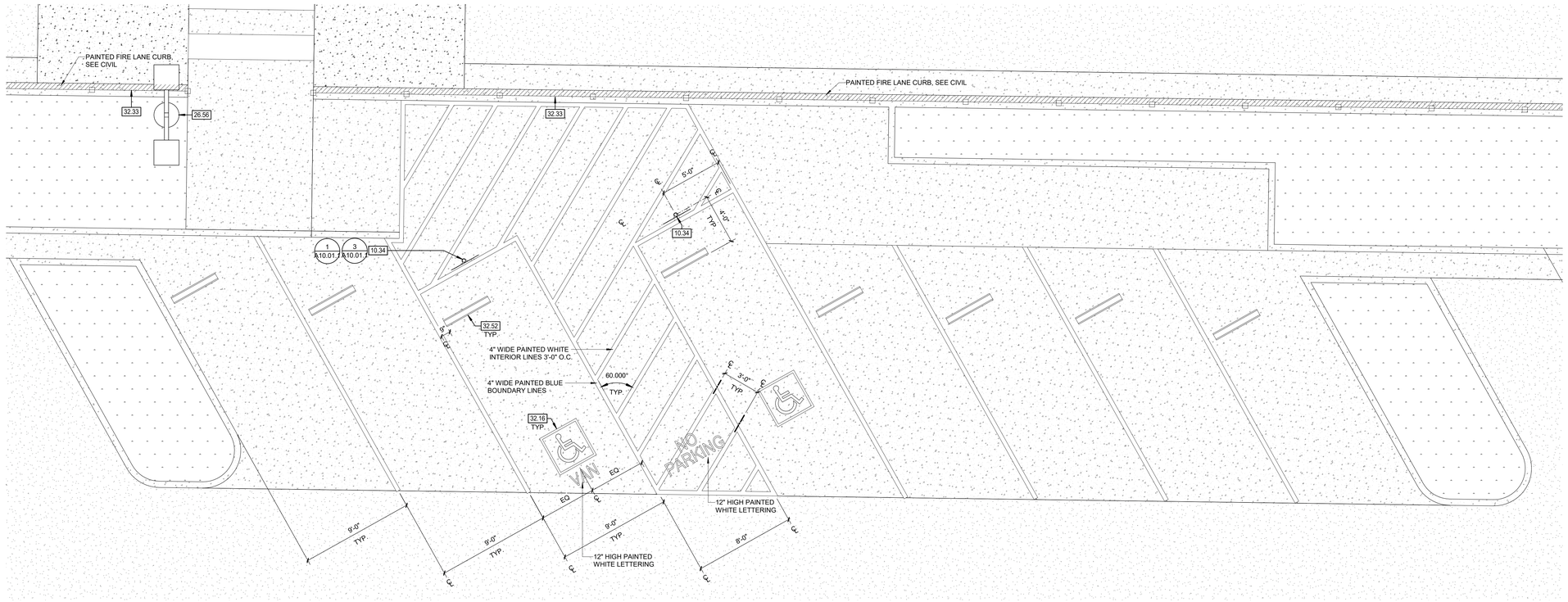

**ENLARGED PLAN - LOT P1 NORTH DROP-OFF ZONE** 5 — 1/4" = 1'-0"




**ENLARGED PLAN - LOT P2 WEST DROP-OFF ZONE** 3 — 1/4" = 1'-0"




**ENLARGED PLAN - LOT P2 EAST DROP-OFF ZONE** 2 — 1/4" = 1'-0"




**ENLARGED PLAN - LOT P2 ACCESSIBLE PARKING** 1 — 1/4" = 1'-0"

**AGENCY APPROVAL:**

LODI USD

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| Δ | DESCRIPTION | DATE |
|---|---|---|

## KEYNOTES

| | |
|---|---|
| 10.34 | ACCESSIBLE PARKING STALL SIGN \| CIVIL |
| 26.56 | LIGHT POLE \| ELEC |
| 32.04 | TRUNCATED DOMES \| CIVIL |
| 32.16 | ISA SYMBOL \| CIVIL |
| 32.33 | 4'-0" HIGH DECORATIVE METAL FENCING |
| 32.51 | TRUNCATED DOMES / DETECTABLE WARNINGS \| CIVIL |
| 32.52 | CONC WHEEL STOP, ANCHORED TO PAVING \| CIVIL |

FACILITY:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL**
**2801 W. VINE STREET**
**LODI, CA 95242**

PROJECT:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC. 1**

SHEET NAME:
**ENLARGED SITE PLANS**

**DSA SUBMITTAL**

DATE: **2025.12.09** | CLIENT PROJ NO:

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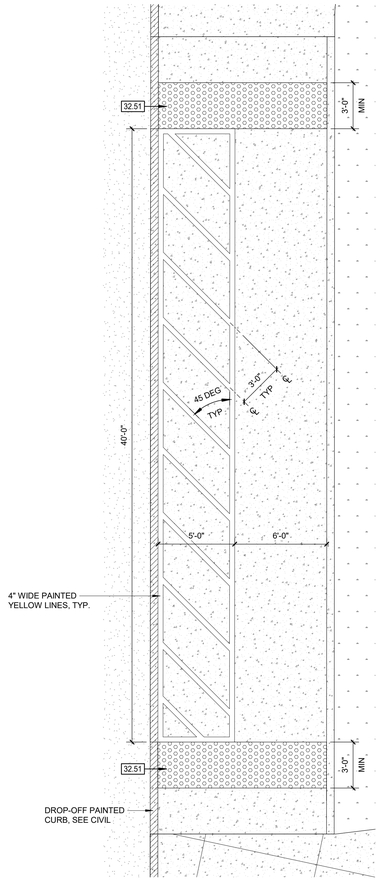
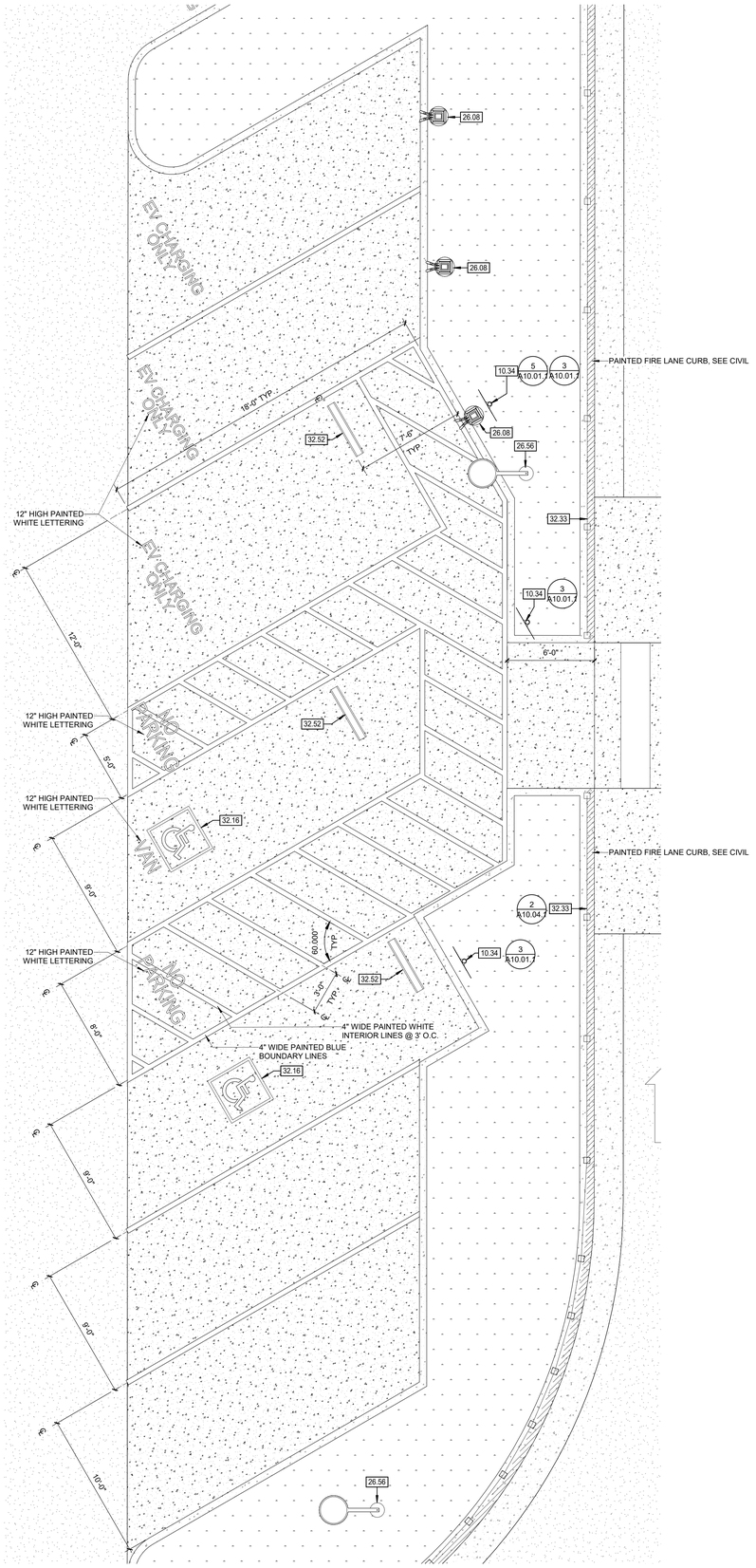



## ENLARGED PLAN - LOT P1 SOUTH DROP-OFF ZONE

2

1/4" = 1'-0"




## ENLARGED PLAN - LOT P1 ACCESSIBLE PARKING

1

1/4" = 1'-0"

**AGENCY APPROVAL:**

LODI USD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DESIGN FOR GOOD
3431-010-000
2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA, 95816
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JENNIFER PEARSON-ERMAG
C-35691
REN. 05/31/27
STATE OF CALIFORNIA

**ISSUE**

| Δ | DESCRIPTION | DATE |
|---|---|---|

## KEYNOTES

| | |
|---|---|
| 10.34 | ACCESSIBLE PARKING STALL SIGN \| CIVIL |
| 26.08 | EV CHARGING STATION \| ELEC |
| 26.56 | LIGHT POLE \| ELEC |
| 32.16 | ISA SYMBOL \| CIVIL |
| 32.33 | 4'-0" HIGH DECORATIVE METAL FENCING |
| 32.51 | TRUNCATED DOMES / DETECTABLE WARNINGS \| CIVIL |
| 32.52 | CONC WHEEL STOP, ANCHORED TO PAVING \| CIVIL |

FACILITY:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL**
**2801 W. VINE STREET**
**LODI, CA 95242**

PROJECT:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC. 1**

SHEET NAME:
**ENLARGED SITE PLANS**

**DSA SUBMITTAL**

DATE: **2025.12.09** | CLIENT PROJ NO:

SHEET:

# A1.42.1

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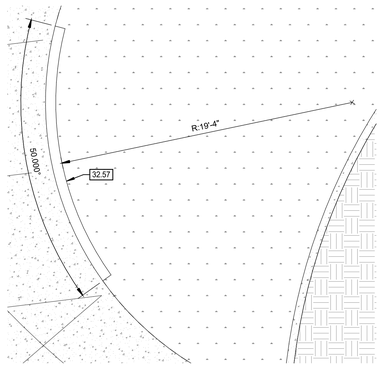
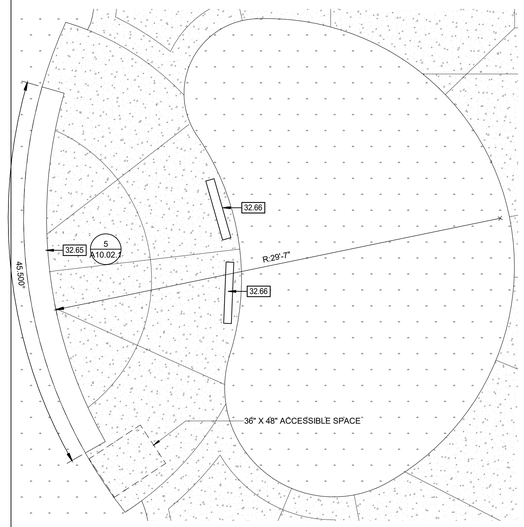
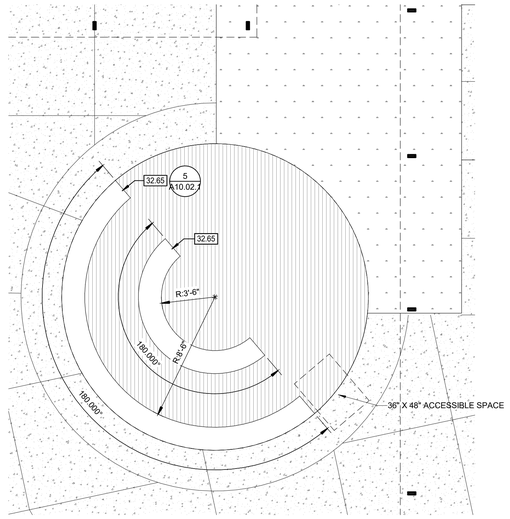


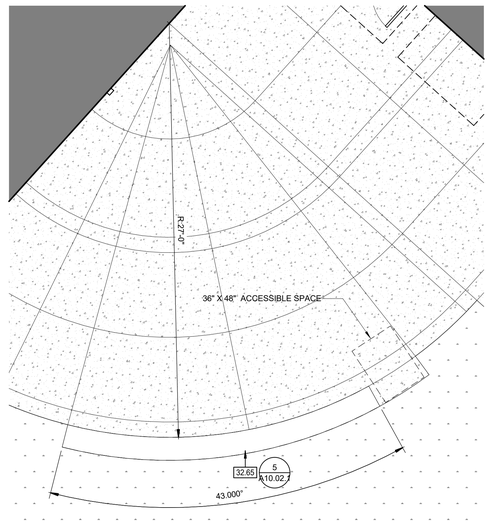

**ENLARGED SITE PLAN - ENTRY SIGN WALL** 15 — 1/4" = 1'-0"



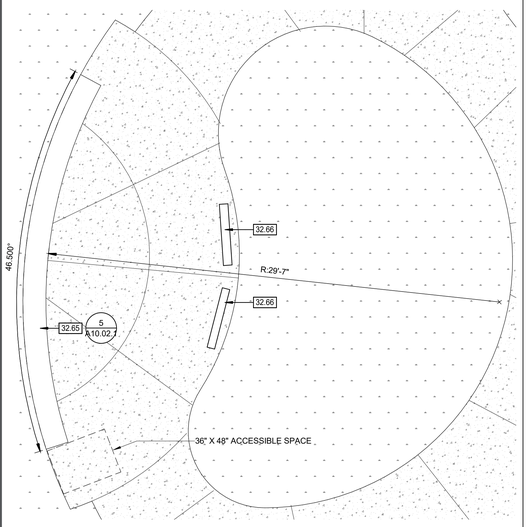

**ENLARGED PLAN - UPPER GRADE COURTYARD** 11 — 1/4" = 1'-0"



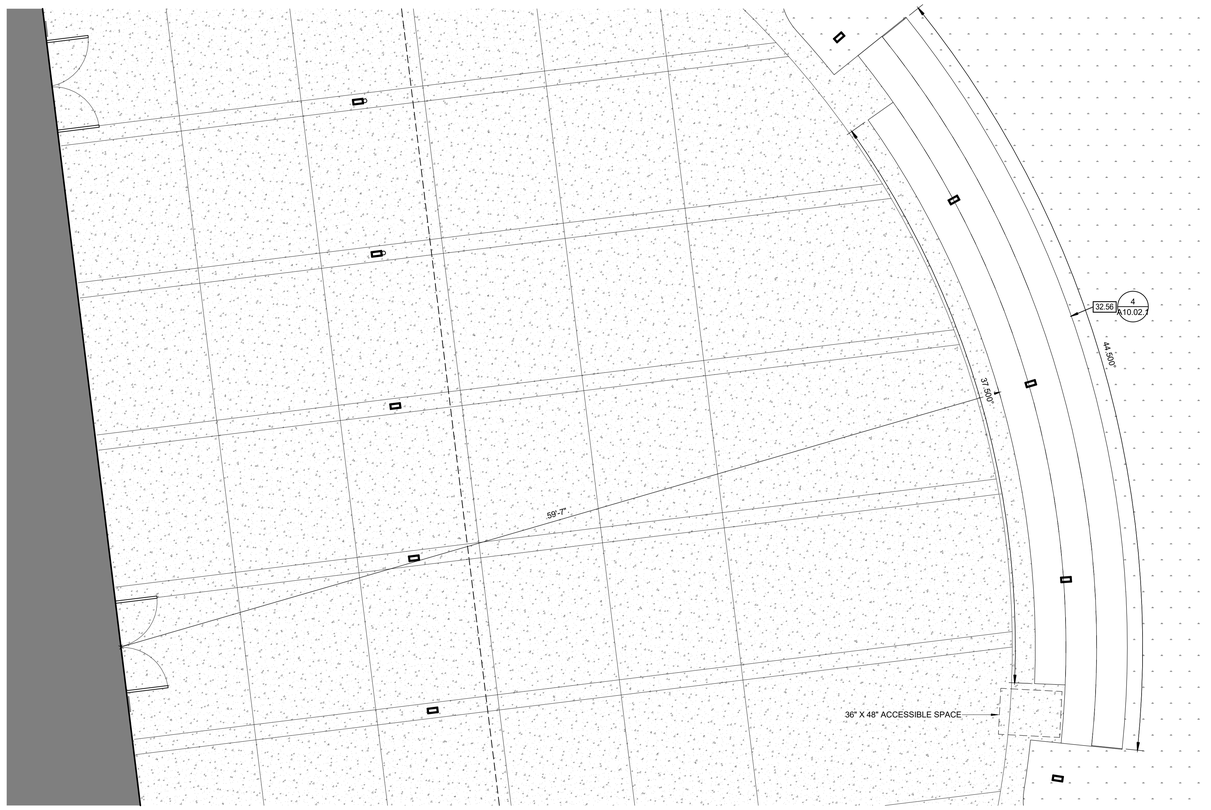

**ENLARGED SITE PLAN - OUTDOOR TEACHING AREA** 7 — 1/4" = 1'-0"




**ENLARGED SITE PLAN - ADMIN COURTYARD** 3 — 1/4" = 1'-0"




**ENLARGED SITE PLAN - LOWER GRADE COURTYARD** 13 — 1/4" = 1'-0"




**ENLARGED SITE PLAN - AMPHETHEATER SEATING** 1 — 1/4" = 1'-0"

AGENCY APPROVAL:

LODI USD

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SACRAMENTO, CA, 95816
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|---|---|---|

## KEYNOTES

| | |
|---|---|
| 32.56 | CAST-IN-PLACE CONCRETE AMPHITHEATER SEATING |
| 32.57 | CAST IN PLACE CONCRETE SIGN WALL \| LANDSCAPE |
| 32.65 | CAST IN PLACE CONCRETE SEAT WALL |
| 32.66 | TEACHING SCREEN \| LANDSCAPE |

FACILITY:
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**2801 W. VINE STREET**
**LODI, CA 95242**

PROJECT:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC. 1**

SHEET NAME:
**ENLARGED SITE PLANS**

**DSA SUBMITTAL**

DATE: **2025.12.09** | CLIENT PROJ NO:

SHEET:

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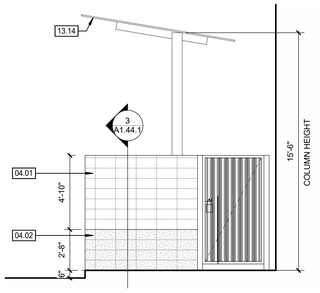
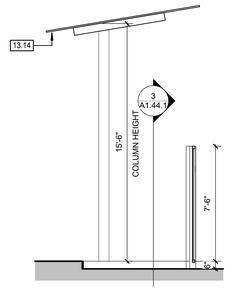
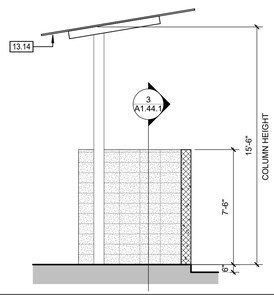


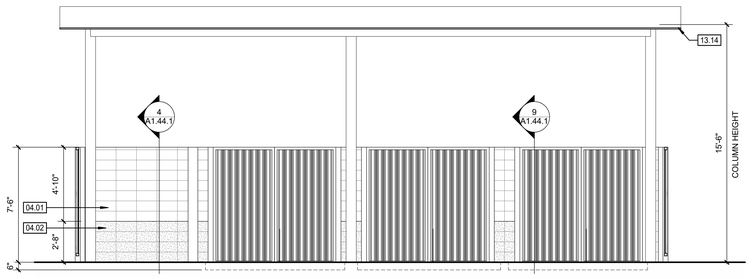

TRASH ENCLOSURE - WEST **19** 1/4" = 1'-0"



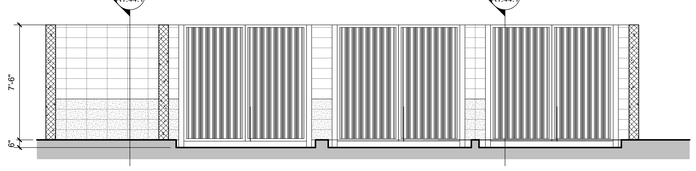

TRASH ENCLOSURE SECTION2 **9** 1/4" = 1'-0"



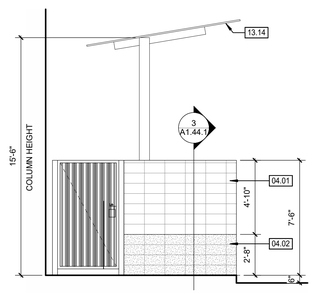

TRASH ENCLOSURE SECTION1 **4** 1/4" = 1'-0"



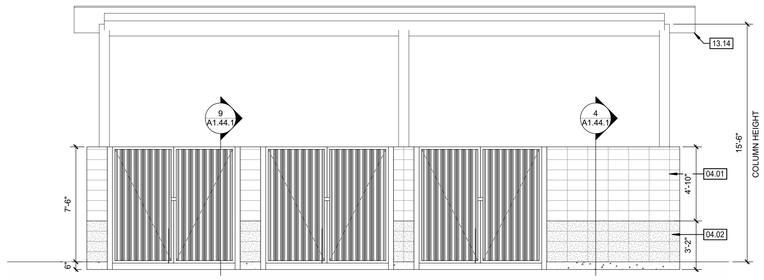

TRASH ENCLOSURE - SOUTH **18** 1/4" = 1'-0"



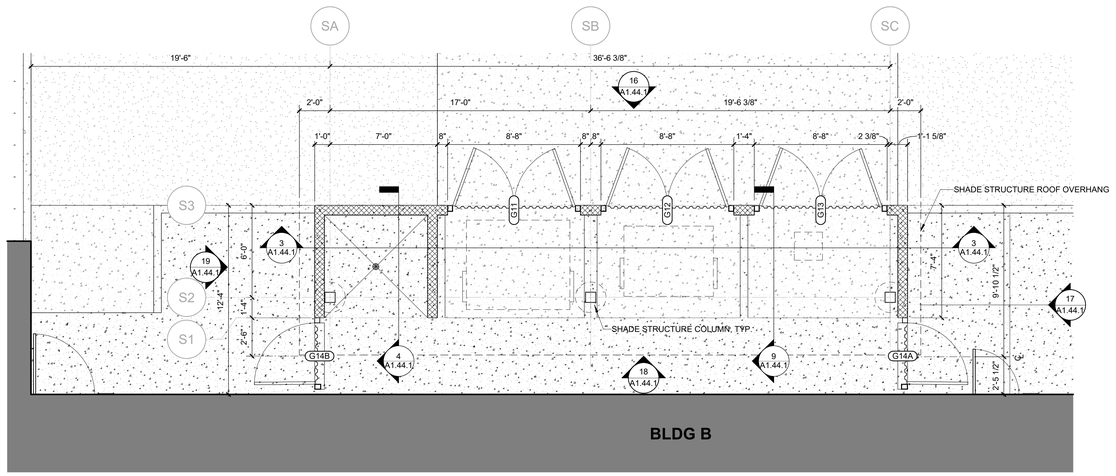

TRASH ENCLOSURE SECTION **3** 1/4" = 1'-0"




TRASH ENCLOSURE - EAST **17** 1/4" = 1'-0"




TRASH ENCLOSURE - NORTH **16** 1/4" = 1'-0"




ENLARGED PLAN - TRASH ENCLOSURE **1** 1/4" = 1'-0"

**AGENCY APPROVAL:**

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STATE OF CALIFORNIA

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|---|---|---|

## KEYNOTES

| | |
|---|---|
| 04.01 | GROUND FACE STACK BOND CMU WALL |
| 04.02 | SPLIT FACE STACK BOND CMU WALL |
| 13.14 | SHADE STRUCTURE PC#02-121474 |

FACILITY:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL**
**2801 W. VINE STREET**
**LODI, CA 95242**

PROJECT:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC. 1**

SHEET NAME:
**ENLARGED TRASH ENCLOSURE PLANS, ELEVATIONS, AND SECTIONS**

**DSA SUBMITTAL**

DATE: **2025.12.09** | CLIENT PROJ NO:

SHEET:

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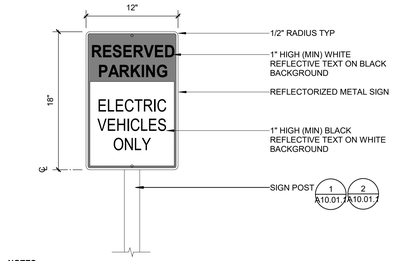
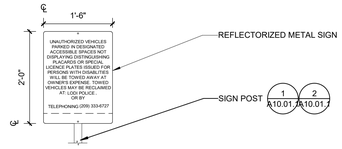



**NOTES:**
1. PAINT 12" HIGH "EV PARKING" IN WHITE LETTERS ON THE GROUND AT THE END OF THE STALL
2. IDENTIFICATION OF ACCESSIBLE EVCS STALLS SHALL BE PROVIDED PER 11B-812.8.

10.14.30.01

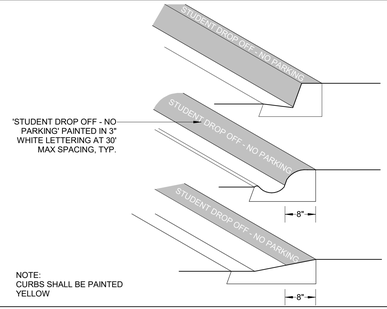
## RESERVED PARKING SIGN PANEL 5
1 1/2" = 1'-0"



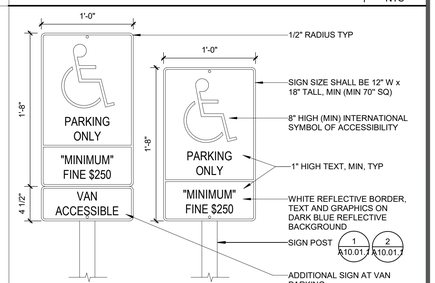

**NOTE:**
1. A REFLECTORAIZED SIGN SHALL BE PERMANENTLY POSTED IN A CONSPICUOUS PLACE AT EACH ENTRANCE TO OFF-STREET PARKING FACILITIES OR IMMEDIATELY ADJACENT TO AND VISIBLE FROM EACH STALL OR SPACE. THE SIGN SHALL NOT BE LESS THAN 18" BY 24" IN SIZE WITH WHITE LETTERING NOT LESS THAN 2" IN HEIGHT ON 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 4
NTS

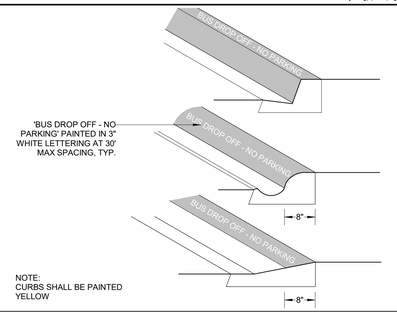



## STUDENT DROP OFF LANE CURB PAINTING 8
3/4" = 1'-0"

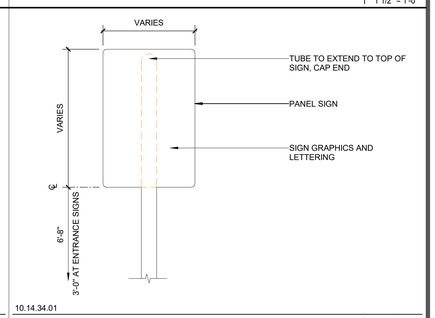



10.14.33.01

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

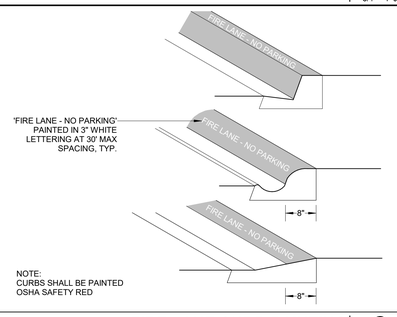



## BUS DROP OFF LANE CURB PAINTING 7
3/4" = 1'-0"

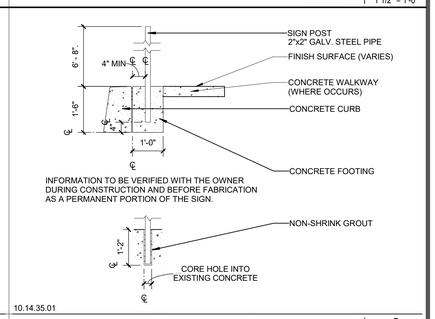



10.14.34.01

## GENERIC EXTERIOR POST-MOUNTED SIGN PANEL 2
1 1/2" = 1'-0"




## FIRE LANE CURB PAINTING 6
NTS




10.14.35.01

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

PLEASE RECYCLE

**AGENCY APPROVAL:**

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LICENSED ARCHITECT JENNIFER PEARSON-HUANG C-35691 REN. 05/31/27 STATE OF CALIFORNIA

**ISSUE**

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FACILITY:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL**
**2801 W. VINE STREET**
**LODI, CA 95242**

PROJECT:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC. 1**

SHEET NAME:
**SITE SIGNAGE DETAILS**

**DSA SUBMITTAL**

DATE: **2025.12.09** | CLIENT PROJ NO:

SHEET:

# A10.01.1


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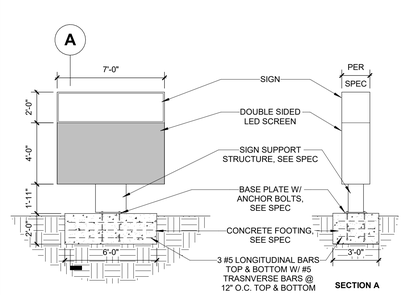
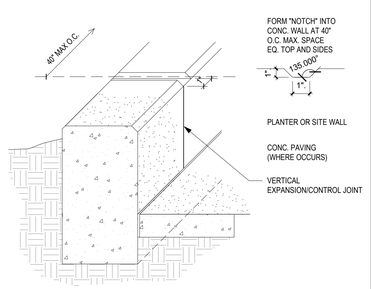
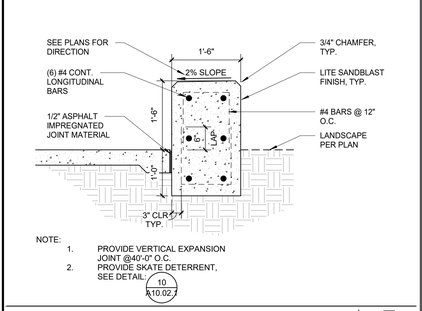


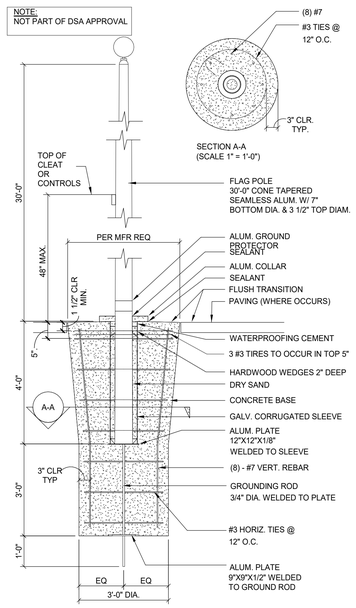

**MARQUEE SIGN DETAIL** 15 — 1/4" = 1'-0"



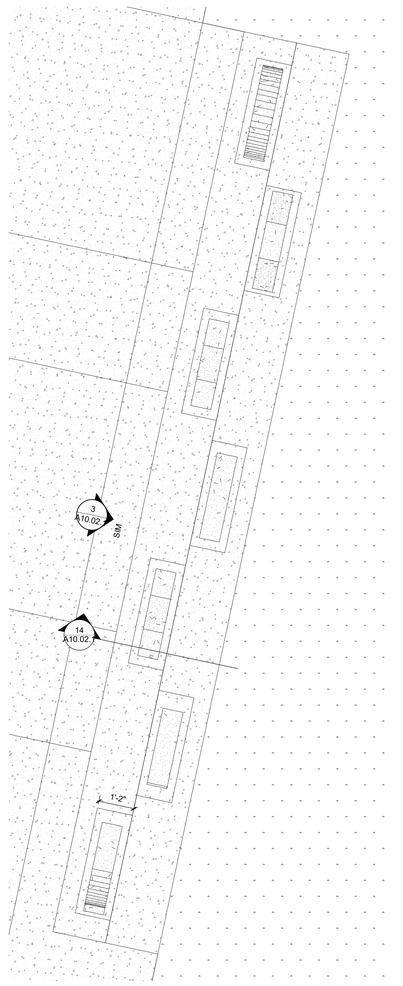

**CONCRETE SEAT WALL SKATE DETERRANT** 10 — 3/4" = 1'-0"



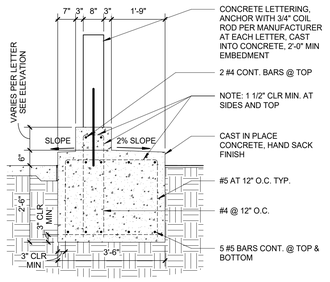

**CONCRETE SEAT WALL** 5 — 3/4" = 1'-0"



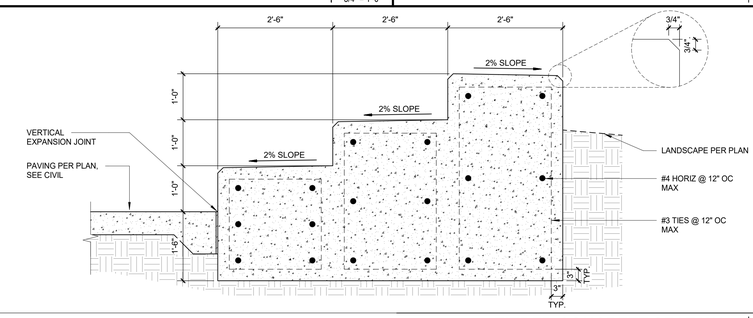

**ALUMINUM FLAG POLE** 23 — 1/2" = 1'-0"



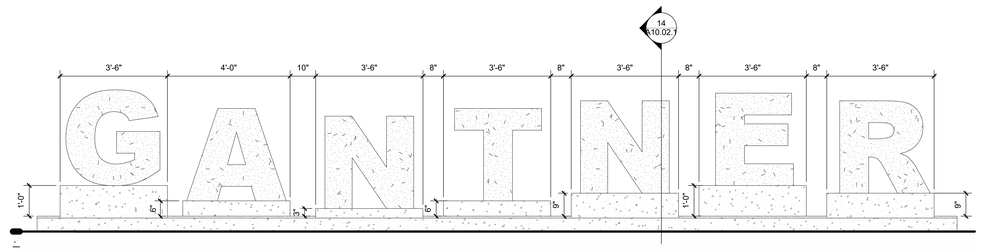

**MONUMENT SIGN PLAN** 17 — 1/2" = 1'-0"



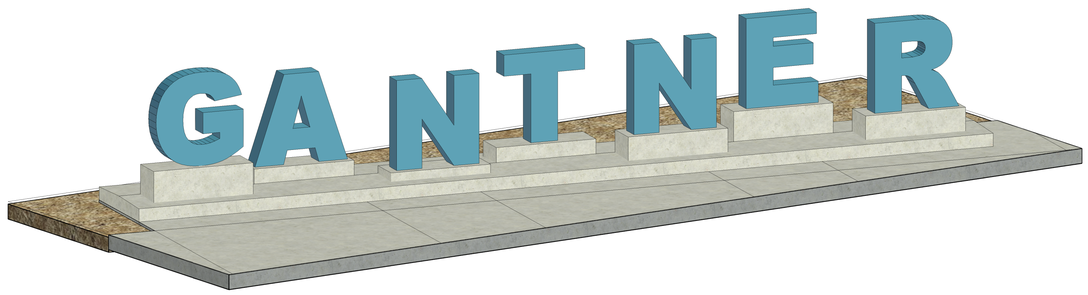

**MONUMENT SIGN SECTION THROUGH LETTER, TYP.** 14 — 1/2" = 1'-0"



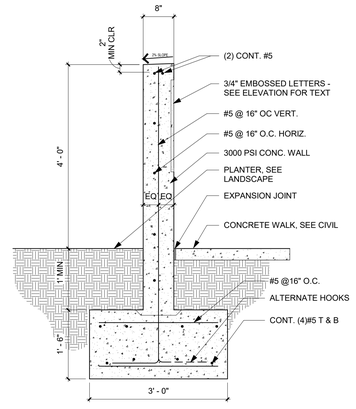

**TIERED CONCRETE SEAT WALL** 4 — 3/4" = 1'-0"



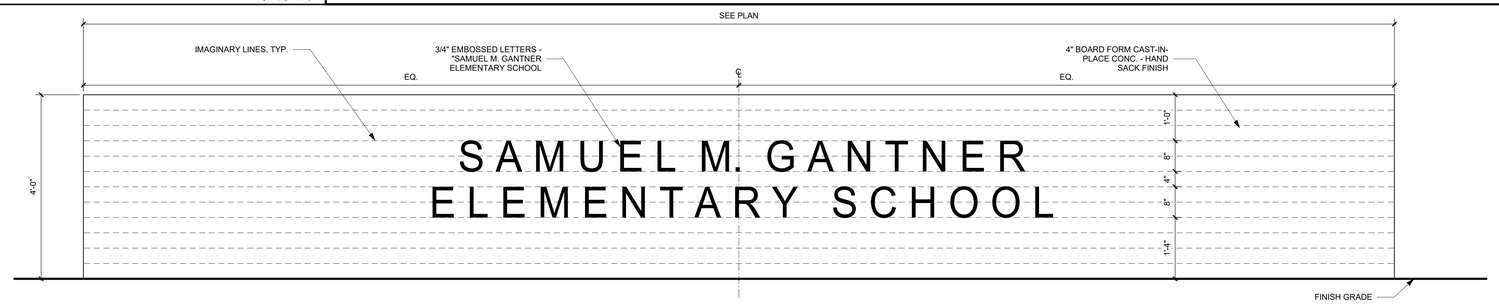

**MONUMENT SIGN ELEVATION** 3 — 1/2" = 1'-0"




**MONUMENT SIGN 3D** 2




**CONCRETE SIGN WALL SECTION** 21 — 3/4" = 1'-0"




**CONCRETE SIGN WALL ELEVATION** 1 — 3/4" = 1'-0"

**AGENCY APPROVAL:**

LODI USD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LICENSED ARCHITECT JENNIFER PEARSON-HUANG C-35691 REN. 05/31/27 STATE OF CALIFORNIA

**ISSUE**

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**NOTES**

1. DETAILS ON SHEET NOT REVIEWED BY DSA PER IR A-22 EXEMPTION

FACILITY:
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**2801 W. VINE STREET**
**LODI, CA 95242**

PROJECT:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC. 1**

SHEET NAME:
**SITE DETAILS**

**DSA SUBMITTAL**

DATE: **2025.12.09** | CLIENT PROJ NO:

SHEET:

# A10.02.1

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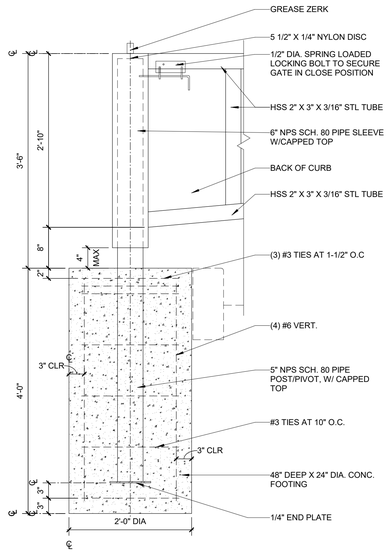
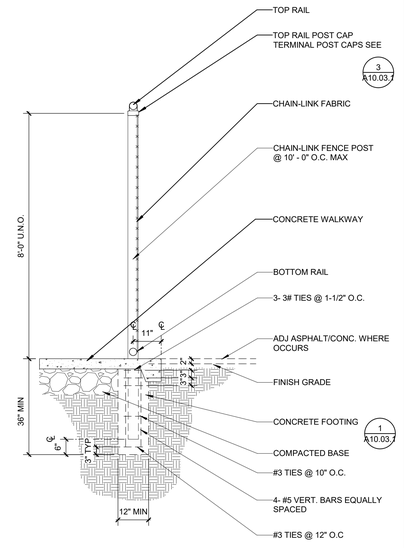



**NOTES:**
1. GRIND ALL WELDS SMOOTH
2. ALL WELDS ARE TO BE CONTINUOUS
3. PRIME STEEL COMPONENTS PRIOR TO INSTALLATION
4. ALL STEEL COMPONENTS TO BE PAINTED YELLOW

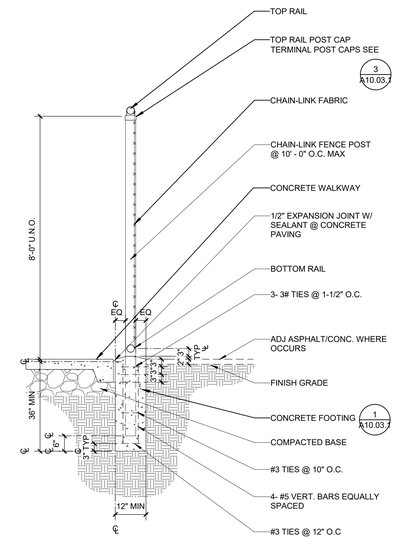
11.12.01.01

## SWING ARM BARRIER GATE | 14
1" = 1'-0"



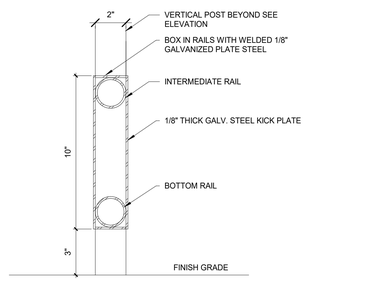

**NOTE:**
REINFORCING IS ONLY REQUIRED FOR PIERS AS INDICATED PER TABLE IN 1/A10.03.1

## CHAIN-LINK FENCE AT PAVING | 9
1/2" = 1'-0"

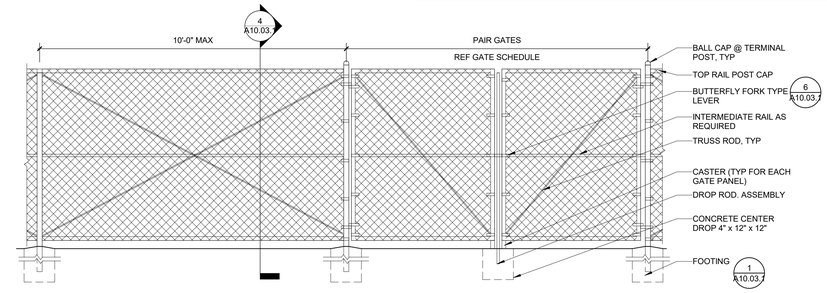



**NOTE:**
REINFORCING IS ONLY REQUIRED FOR PIERS AS INDICATED PER TABLE IN 1/A10.03.1

## TYP. CHAIN-LINK FENCE & POST SECTION | 4
1/2" = 1'-0"

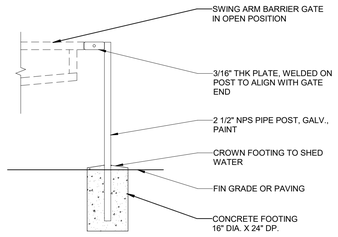



## KICKPLATE AT GATE | 13
3" = 1'-0"



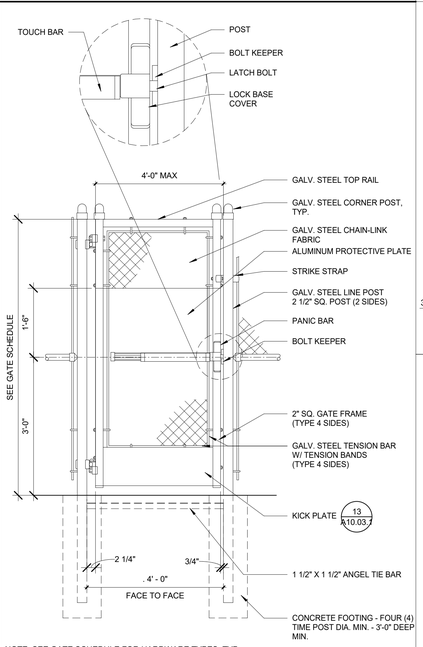

32.31.10.01

## CHAIN-LINK FENCE & SWING GATE - PAIR | 3
1/2" = 1'-0"



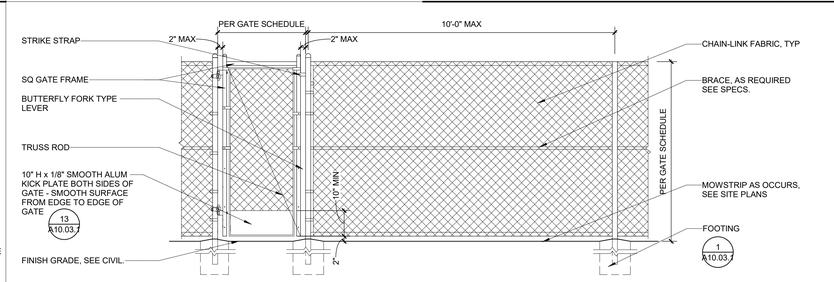

11.12.03.01

## SWING ARM BARRIER GATE STOP POST - IN OPEN POSITION | 17
1/2" = 1'-0"



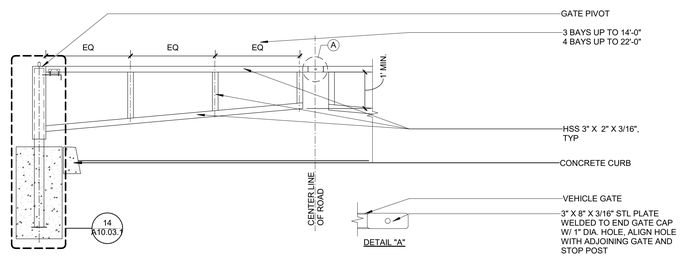

NOTE: SEE GATE SCHEDULE FOR HARDWARE TYPES, TYP.

## SINGLE C.L. GATE W/ PANIC HARDWARE | 11
3/4" = 1'-0"



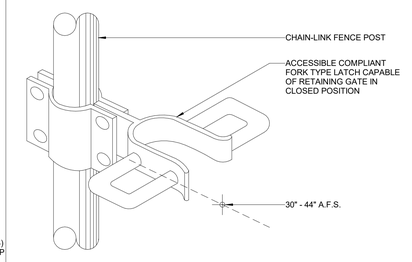

32.31.14.01

## CHAIN-LINK FENCE & SWING GATE - SINGLE | 2
1/2" = 1'-0"




11.12.02.01

## SWING ARM BARRIER GATE ELEVATION | 16
3/8" = 1'-0"




32.31.09.01

## CHAIN-LINK GATE FORK LATCH | 6
NTS

**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' | 2 NPS | 12" | 42" | 2 1/2 NPS | 12" | 42" |
| UP TO 8' | 2 1/2 NPS | 12" | 48" | 3 NPS | 12" | 48" |

* W/O WINDSCREEN/SLATS,

** 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' |

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

## CHAIN-LINK FENCE & GATE POST CRITERIA | 1
NTS

**AGENCY APPROVAL:**

LODI USD

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

LICENSED ARCHITECT
JENNIFER PEARSON-HUANG
C-35691
REN. 05/31/27
STATE OF CALIFORNIA

**ISSUE**

| Δ | DESCRIPTION | DATE |
|---|---|---|

FACILITY:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL**
**2801 W. VINE STREET**
**LODI, CA 95242**

PROJECT:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC. 1**

SHEET NAME:
**CHAIN LINK FENCE DETAILS**

**DSA SUBMITTAL**

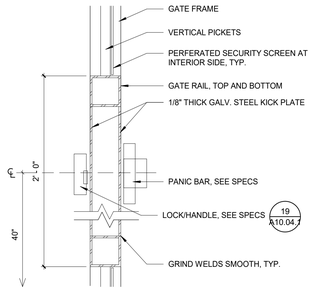
DATE: **2025.12.09**
CLIENT PROJ NO:

SHEET:
**A10.03.1**

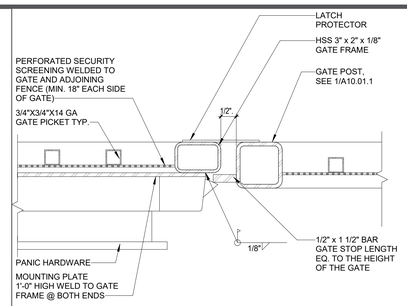
Autodesk Docs://3431010000 LODI USD SAMUEL M. GANTNER ES R24/3431010000-A-LUSD-GANTNER ES-SITE.rvt
2/12/2026 9:44:10 AM

PLEASE RECYCLE

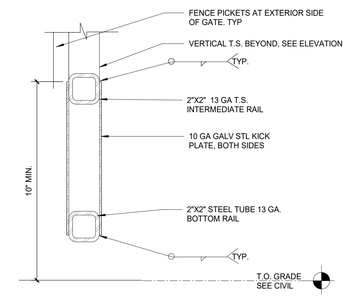
THE LINE SHOWN ABOVE IS 1" LONG WHEN PLOTTED AT FULL SHEET'S ORIGINAL PAPER SIZE



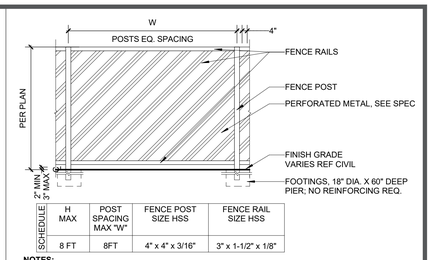

## PANIC HARDWARE 20
3" = 1'-0"




## MOUNTING PLATE 15
3" = 1'-0"




## KICK PLATE 10
3" = 1'-0"

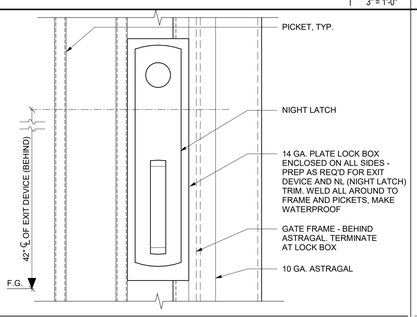



| SCHEDULE | H MAX | POST SPACING MAX "W" | FENCE POST SIZE HSS | FENCE RAIL SIZE HSS |
|---|---|---|---|---|
| | 8 FT | 8FT | 4" x 4" x 3/16" | 3" x 1-1/2" x 1/8" |

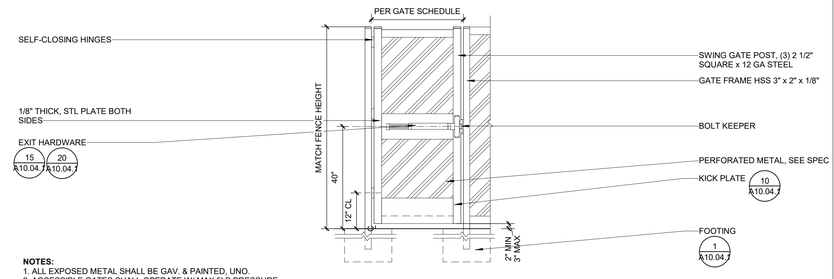
**NOTES:**
1. ALL EXPOSED METAL SHALL BE GALVANIZED FINISH.
2. STEP FENCE A POST AS REQ'D FOR SLOPED GRADE CONDITIONS.
3. SEE FENCES AND GATES METAL SPEC SECTION.

32.31.03.01

## PERFORATED FENCE ELEVATION 4
1/4" = 1'-0"

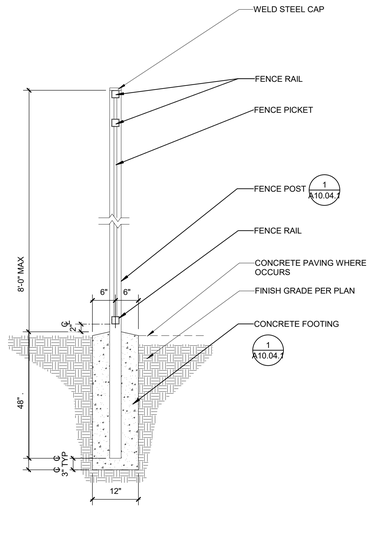



## GATE HARDWARE 19
3" = 1'-0"




**NOTES:**
1. ALL EXPOSED METAL SHALL BE GAV. & PAINTED, UNO.
2. ACCESSIBLE GATES SHALL OPERATE W/ MAX 5LB PRESSURE

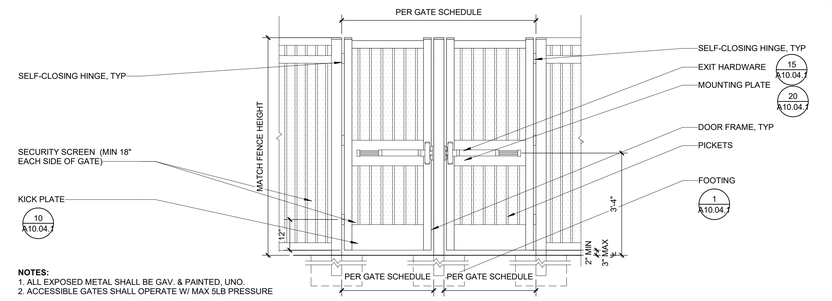
## PERFORATED METAL EGRESS SWING GATE - SINGLE 9
1/2" = 1'-0"







## METAL GATE LATCH 18
3" = 1'-0"

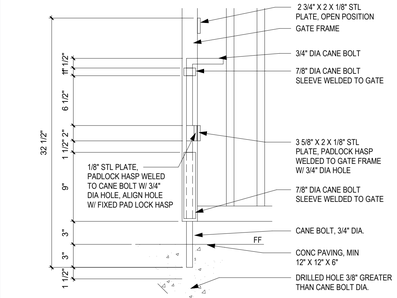



**NOTES:**
1. ALL EXPOSED METAL SHALL BE GAV. & PAINTED, UNO.
2. ACCESSIBLE GATES SHALL OPERATE W/ MAX 5LB PRESSURE

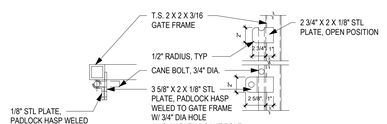
## DECORATIVE METAL EGRESS SWING GATE - PAIR 8
1/2" = 1'-0"

32.31.05.01

## TYP. DECORATIVE FENCE SECTION 3
3/4" = 1'-0"

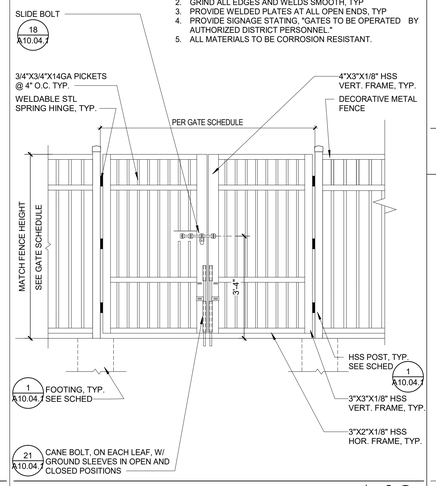



CANE BOLT ELEVATION

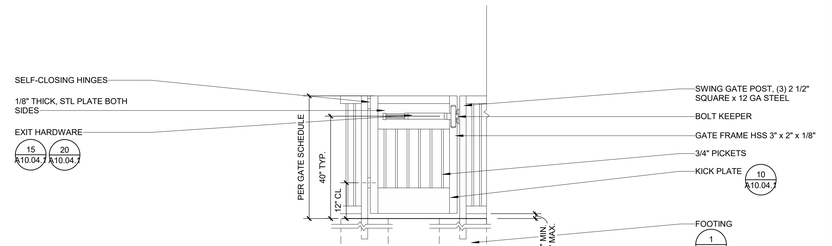



CANE BOLT HOLDER/ PADLOCK HASP

## CANE BOLT DETAILS DECORATIVE METAL FENCE 21
1 1/2" = 1'-0"

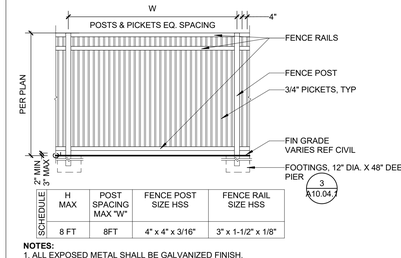



## DECORATIVE METAL GATE - DOUBLE 16
1/2" = 1'-0"




**NOTES:**
1. ALL EXPOSED METAL SHALL BE GAV. & PAINTED, UNO.
2. ACCESSIBLE GATES SHALL OPERATE W/ MAX 5LB PRESSURE

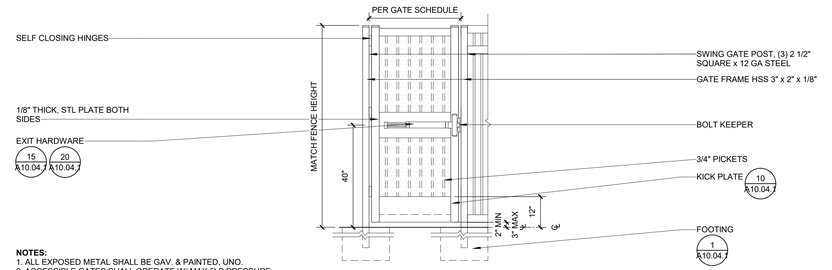
## DECORATIVE METAL EGRESS SWING GATE - SINGLE 7
1/2" = 1'-0"




| 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.

## DECORATIVE FENCE ELEVATION 2
1/4" = 1'-0"




**NOTES:**
1. ALL EXPOSED METAL SHALL BE GAV. & PAINTED, UNO.
2. ACCESSIBLE GATES SHALL OPERATE W/ MAX 5LB PRESSURE

## DECORATIVE METAL EGRESS SWING GATE - SINGLE 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
NTS

AGENCY APPROVAL:

LODI USD

HMC Architects
DESIGN FOR GOOD
3431-010-000
2101 CAPITOL AVENUE, SUITE 100,
SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com
LICENSED ARCHITECT JENNIFER PEARSON-HUANG C-35691 REN. 05/31/27 STATE OF CALIFORNIA

ISSUE

| Δ | DESCRIPTION | DATE |
|---|---|---|

FACILITY:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL**
**2801 W. VINE STREET**
**LODI, CA 95242**

PROJECT:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC. 1**

SHEET NAME:
**DECORATIVE FENCE DETAILS**

DSA SUBMITTAL

DATE: **2025.12.09** | CLIENT PROJ NO:

SHEET:

**A10.04.1**

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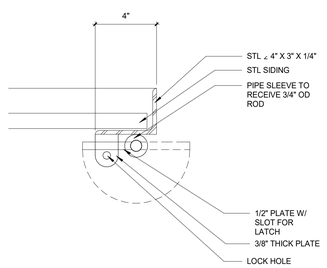
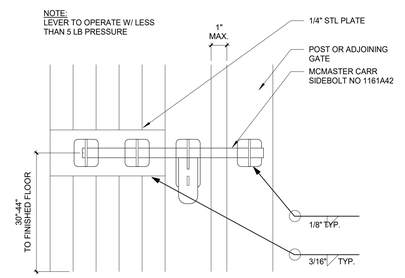
PLEASE RECYCLE

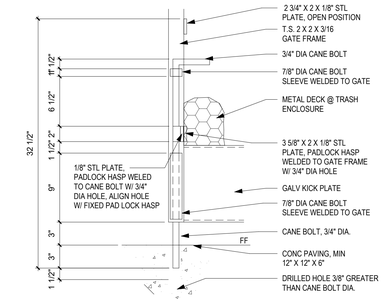
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ANSI SHEETS ORIGINAL PAGE SIZE



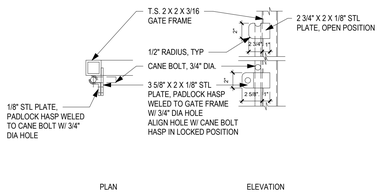

## CANE BOLT SECTION 9
3" = 1'-0"




## METAL GATE LATCH 4
3" = 1'-0"

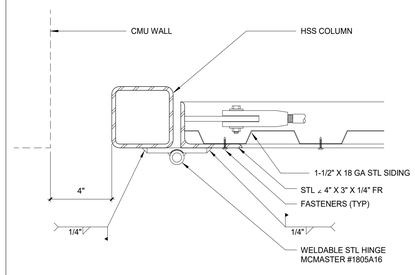



CANE BOLT ELEVATION

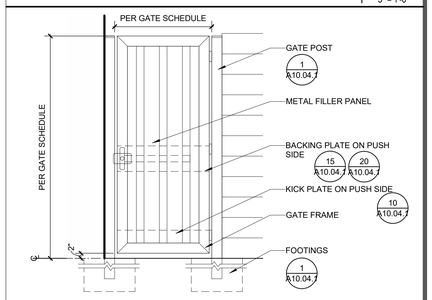



CANE BOLT HOLDER/ PADLOCK HASP

## CANE BOLT DETAILS 7
1 1/2" = 1'-0"

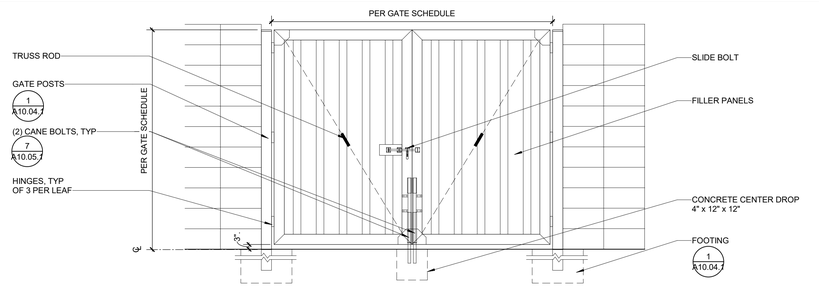



## HINGE AT METAL GATE 3
3" = 1'-0"




32.31.06.01

## DECORATIVE METAL SECURITY SWING GATE - SINGLE 2
1/2" = 1'-0"




32.31.07.01

## DECORATIVE METAL SECURITY SWING GATE - PAIR 1
1/2" = 1'-0"

PLEASE RECYCLE

Autodesk Docs://3431010000 LODI USD SAMUEL M. GANTNER ES R24/3431010000-A-LUSD-GANTNER ES-SITE.rvt
2/12/2026 9:34:12 AM

**AGENCY APPROVAL:**

LODI USD


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


LICENSED ARCHITECT
JENNIFER PEARSON HUANG
C-35691
REN. 05/31/27
STATE OF CALIFORNIA

**ISSUE**

| Δ | DESCRIPTION | DATE |
|---|---|---|

FACILITY:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL**
**2801 W. VINE STREET**
**LODI, CA 95242**

PROJECT:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC. 1**

SHEET NAME:
**TRASH ENCLOSURE DETAILS**

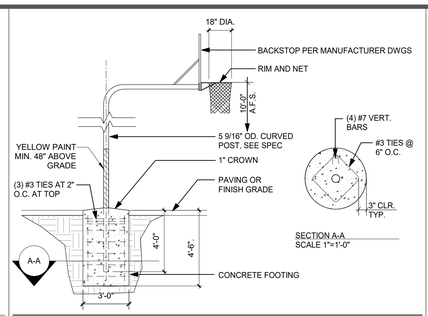
**DSA SUBMITTAL**

DATE: **2025.12.09** | CLIENT PROJ NO:

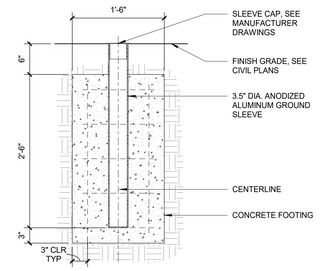
SHEET:

# A10.05.1

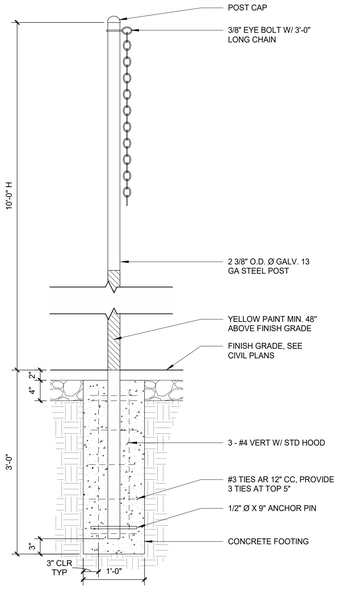
THE LINE SHOWN IN ABOVE IS EXACTLY ONE INCH ON ANSI D SHEETS ORIGINAL PAGE SIZE



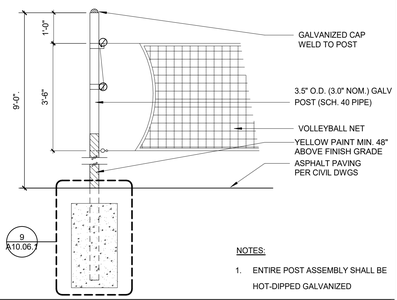

## BASKETBALL BACKSTOP 10
1/4" = 1'-0"



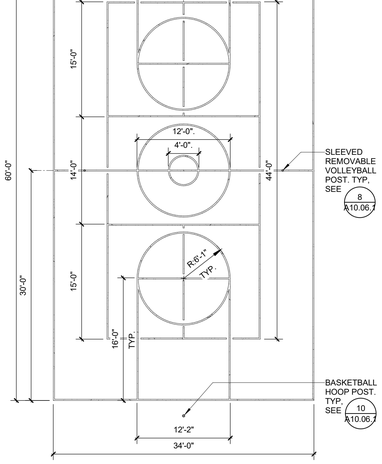

## VOLLEYBALL POST SLEEVE 9
1" = 1'-0"

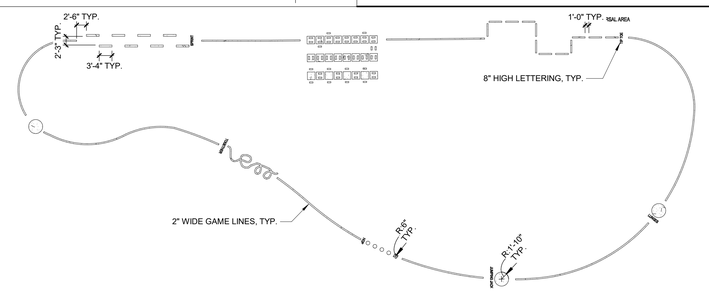



## TETHERBALL POST SLEEVE 4
1" = 1'-0"



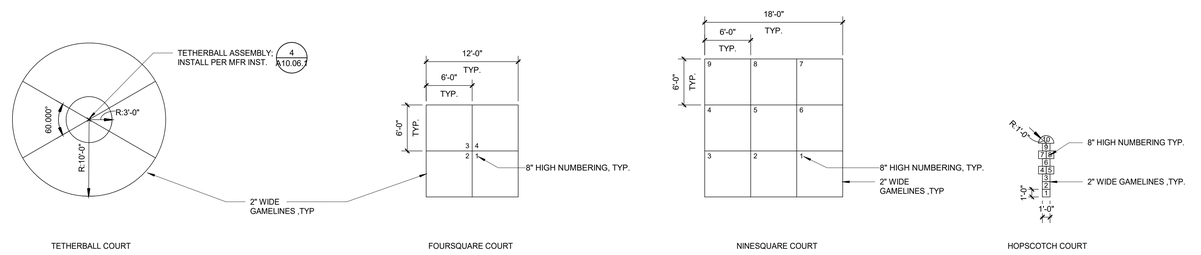

## REMOVEABLE VOLLEYBALL POST 8
1/2" = 1'-0"




## CHALLENG COURSE STRIPING 7
1/16" = 1'-0"

## BASKETBALL AND VOLLEYBALL COURT STRIPING 2
1/8" = 1'-0"




NOTE:
1. MEASUREMENTS ARE TO CENTERLINE OF ALL GAME LINES

## GAMELINE LAYOUT 1
1/8" = 1'-0"

PLEASE RECYCLE

Autodesk Docs://3431010000 LODI USD SAMUEL M. GANTNER ES R24/3431010000-A-LUSD-GANTNER ES-SITE.rvt
2/12/2026 9:44:14 AM

**AGENCY APPROVAL:**

LODI USD


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


LICENSED ARCHITECT JENNIFER PEARSON-HUANG C-35691 REN. 05/31/27 STATE OF CALIFORNIA

**ISSUE**

| Δ | DESCRIPTION | DATE |
|---|---|---|

FACILITY:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL**
**2801 W. VINE STREET**
**LODI, CA 95242**

PROJECT:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC. 1**

SHEET NAME:
**PLAY YARD DETAILS**

**DSA SUBMITTAL**

DATE: **2025.12.09** | CLIENT PROJ NO:

SHEET:

# A10.06.1

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

## GENERAL NOTES

1. ALL DIMENSIONS, CONDITIONS AND ELEVATIONS ARE TO BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO COMMENCING WORK OR FABRICATION. IF ANY DISCREPANCIES ARE FOUND OR IF ANY CONDITION EXISTS NOT AS SHOWN ON THE DRAWINGS THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY.

2. THE CONTRACTOR WILL HOLD HARMLESS, INDEMNIFY AND DEFEND THE OWNER, THE ENGINEER, AND HIS CONSULTANTS, AND EACH OF THEIR OFFICERS AND EMPLOYEES AND AGENTS, FROM ANY AND ALL LIABILITY CLAIMS, LOSSES OR DAMAGE ARISING OR ALLEGED TO ARISE FROM THE PERFORMANCE OF THE WORK DESCRIBED HEREIN, BUT NOT INCLUDING THE SOLE NEGLIGENCE OF THE OWNER, THE ENGINEER AND HIS CONSULTANTS, AND EACH OF THEIR OFFICERS AND EMPLOYEES AND AGENTS.

3. THE CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE DESIGN INTENT. UNLESS OTHERWISE SHOWN, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES.

IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

ALL WORK SHALL CONFORM TO THE LATEST APPLICABLE CONSTRUCTION SAFETY REQUIREMENTS OF O.S.H.A. AND ANY OTHER GOVERNMENTAL ENTITY HAVING JURISDICTION.

4. THE DUTY OF THE ENGINEER TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, ON, OR NEAR THE CONSTRUCTION SITE.

5. ANY SUPPORT SERVICES PERFORMED BY THE ENGINEER OR HIS REPRESENTATIVES DURING CONSTRUCTION SHALL BE DISTINGUISHED FROM CONTINUOUS AND DETAILED INSPECTION SERVICES WHICH ARE FURNISHED BY OTHERS. THESE SUPPORT SERVICES PERFORMED BY THE ENGINEER WHETHER OF MATERIAL OR WORK AND WHETHER PERFORMED PRIOR TO, DURING, OR AFTER COMPLETION OF CONSTRUCTION ARE PERFORMED SOLELY FOR THE PURPOSE OF ASSISTING IN QUALITY CONTROL AND IN ACHIEVING CONFORMANCE WITH CONTRACT DRAWINGS AND SPECIFICATION, BUT THEY DO NOT GUARANTEE THE CONTRACTOR'S PERFORMANCE AND SHALL NOT BE CONSTRUED AS SUPERVISION OF CONSTRUCTION.

6. ANY CHANGES TO THE APPROVED SET OF PLANS WITHOUT NOTIFYING THE ENGINEER PRIOR TO SUCH CHANGES ABSOLVES SAID ENGINEER FROM ANY AND ALL RESPONSIBILITY WITH RESPECT TO LIABILITY, DAMAGE OR EXTRA WORK RESULTING FROM SAID CHANGES.

7. NOTES AND DETAILS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER THESE GENERAL NOTES.

8. THE TYPICAL DETAILS SHOWN ON THESE SHEETS SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY SHOWN OTHERWISE. WHERE NO DETAIL IS SHOWN, CONSTRUCTION SHALL BE AS SHOWN FOR OTHER SIMILAR WORK.

9. DESIGN LOADS: RISK CATEGORY II OR RISK CATEGORY III
ROOF LIVE LOAD: 20 PSF REDUCIBLE. ROOF DEAD LOAD: 3 PSF
SNOW LOAD: Pg = Ps = 20 PSF & 30.5 PSF Ce = 1.1 Ct = 1.2 Cs = 1.0
Ie = 1.0 RISK CATEGORY II Is = 1.1 RISK CATEGORY II ICE LOAD = 0 PSF

SEISMIC: $I_E$ = 1.0 AT RISK CATEGORY II $I_E$ = 1.25 AT RISK CATEGORY III
SEISMIC DESIGN CATEGORY = E $\rho$ = 1.3 FOR OFFSET CONFIGURATION

STRUCTURE IS A STEEL ORDINARY CANTILEVERED COLUMN SYSTEM (02 PER ASCE7-16)
R = 1.25/0.7 (FOR WORKING STRESS)
Cp = 1.25 Cd = 1.25
SOIL SITE CLASS = D
FOR 12' COLUMN HEIGHT T = 0.361
FOR 14' COLUMN HEIGHT T = 0.45
FOR 16' COLUMN HEIGHT T = 0.497

BASE SHEAR: V = $\rho$ x Cs x W
RISK CATEGORY II V = 0.728W (ASD) FOR $S_{DS}$ = 1.0
LOW SEISMIC & RC III V=0.728W (ASD) FOR $S_{DS}$=0.8
RISK CATEGORY II V = 1.82W (ASD) FOR $S_{DS}$ = 2.5
HIGH SEISMIC & RC III V=1.82W (ASD) FOR $S_{DS}$=2.0

WIND LOAD: 107 MPH, EXPOSURE C RISK CATEGORY III
Kd = 0.85 Kz = 0.90 Kzt = 1.0Ke = 1.00
qh = 21.42 (qh = 0.00256 x Kz x Ke x Kzt x Kd x $V^2$ x 0.6 (FOR WORKING STRESS)). THE STRUCTURE IS DESIGNED FOR CLEAR & OBSTRUCTED WIND FLOWS. MAXIMUM BASIC WIND LOAD FOR PROJECT LOCATED IN SPECIAL WIND REGIONS SHALL BE EQUAL TO OR LESS THAN 135 mph AND CONFORM WITH THE ADOPTED ORDINANCE OF THE CITY, COUNTY OR CITY AND COUNTY IN WHICH THE PROJECT SITE IS LOCATED AND SHALL BE APPROVED BY DSA-SS.

10. GOVERNING CODE: 2022 CBC

11. ALLOWABLE SOIL BEARING IS BASED ON 1500 PSF & 100 PCFv2 PASSIVE PRESSURE PER CBC TABLE 1806A.2 & SECTION 1806A.5.4. SKIN FRICTION IS PER 1810A.3.3.1.4 & IS EQUAL TO 1500/6=250 PSF. FOR UPLIFT SKIN FRICTION SHALL BE 125 PSF (S.F. OF 2), 1/3 INCREASE WAS NOT USED FOR ANY VALUES. TOP OF PIER IS ASSUMED TO MOVE ONE-HALF INCH.

12. ALL WORK TO BE PERFORMED UNDER THE CONTINUOUS INSPECTION OF A D.S.A. APPROVED INSPECTOR.

13. ALL WORK SHALL CONFORM TO TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).

14. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDA OR A CONSTRUCTION CHANGE DOCUMENT APPROVED BY THE DIVISION OF THE STATE ARCHITECT, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR AND THE ENGINEER.

15. A PROJECT INSPECTOR EMPLOYED BY THE DISTRICT (OWNER) AND APPROVED BY THE OFFICE OF THE STATE ARCHITECT SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINED IN SECTION 4-342, PART 1, TITLE 24, CCR.

## CONCRETE NOTES

1. ALL MOLDS, ORNAMENTS, GROOVES, ETC. SHOWN ON THE ARCHITECTURAL DRAWINGS SHALL BE PROVIDED FOR IN THE FORM WORK BEFORE THE CONCRETE IS POURED.
2. ALL REINFORCING STEEL, ANCHOR BOLTS, DOWELS AND OTHER EMBEDS SHALL BE IN PLACE AND SECURED TO FORM WORK PRIOR TO POURING OF CONCRETE.
3. REFER TO BOTH ARCHITECTURAL AND MECHANICAL DRAWINGS FOR LOCATION OF PLUMBING FIXTURES.
4. NO PIPES OR DUCTS SHALL BE PLACED IN CONCRETE WALLS OR STRUCTURAL SLABS UNLESS SPECIFICALLY DETAILED.
5. CONSTRUCTION JOINTS NOT INDICATED ON THE DRAWINGS SHALL BE SO MADE AND LOCATED AS NOT TO IMPAIR THE STRENGTH OF THE STRUCTURE. PROVISION SHALL BE MADE FOR TRANSFER OF SHEAR AND OTHER FORCES THROUGHOUT THE JOINTS. THE CONTRACTOR SHALL OBTAIN THE ARCHITECTS APPROVAL OF CONSTRUCTION JOINT LOCATION IN ALL STRUCTURAL SLAB, BEAMS AND SHEAR WALLS.
6. SIDES OF FOOTINGS MAY BE POURED AGAINST STABLE EARTH.
7. THE QUALITY AND DESIGN OF CONCRETE SHALL COMPLY WITH TITLE 24 PART 2 EXCEPT ITEMS NOT SPECIFICALLY COVERED THEREIN SHALL CONFORM TO ACI 318.
8. ALL REINFORCING SHALL BE NEW STOCK DEFORMED BARS CONFORMING TO ASTM A615.
   A. #4 BARS AND SMALLER..... GRADE 40 OR 60
   B. #5 BARS AND LARGER.....GRADE 60
   C. SEPARATE BARS 1-1/2 DIAMETERS CLEAR OR 1-1/2" CLEAR, WHICHEVER IS LARGER.
9. MINIMUM CONCRETE COVER FOR REINFORCING SHALL BE AS FOLLOWS:
   CAST AGAINST EARTH (EXCEPT SLABS ON GRADE)..... 3"
   #6 BARS AND LARGER..... 1-1/2"
   EXPOSED TO EARTH OR WEATHER
   #5 BARS AND SMALLER..... 1-1/2"
   #6 BARS AND LARGER..... 2"
   NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND
   SLABS, WALLS, JOISTS
   #11 BARS AND SMALLER..... 3/4"
   #14 AND #18 BARS..... 1-1/2"
   BEAMS, GIRDERS, COLUMNS
   PRINCIPAL REINFORCING, TIES
   STIRRUPS, OR SPIRALS..... 1-1/2"
   SHELLS AND FOLDED PLATE MEMBERS
   #5 BARS AND SMALLER..... 1/2"
   #6 BARS AND LARGER..... 3/4"
10. CONCRETE SHALL HAVE FOLLOWING MINIMUM REQUIRMENTS FOR THE FOLLOWING EXPOSURE CATEGORIES AND CLASSES.
    F0- 2000 PSI AT 28 DAYS & MAXIMUM WATER TO CEMENT RATIO OF 0.5.
    F2- 4500 PSI AT 28 DAYS & MAXIMUM WATER TO CEMENT RATIO OF 0.45. VERIFY COMPLIANCE W/ ACI TABLE 19.3.3.1.
11. THE ENGINEER DOES NOT PROVIDE CONTRACT ADMINISTRATION FOR THE PROJECT, INCLUDING REVIEW OF CONCRETE MIXES.
12. PER ACI SECTION 19.3.2.1, FOOTING SHALL NOT BE EXPOSED TO FREEZING AND THAWING CYCLES, SHALL NOT BE EXPOSED TO WATER-SOLUBLE SULFATE IN SOIL BY PERCENT OF MASS 20.10K, SHALL NOT BE EXPOSED TO EXTERNAL SOURCE OF CHLORIDES.
13. CEMENT SHALL COMPLY W/ ASTM C150 AND AGGREGATE SHALL COMPLY W/ ASTM C33.

## STRUCTURAL STEEL NOTES

1. ALL STRUCTURAL STEEL EXCEPT W SHAPES SHALL CONFORM TO ASTM A-36 AND SHALL BE FABRICATED AND ERECTED AS PER AISC SPECIFICATIONS FOR BUILDINGS. W SHAPES SHALL CONFORM TO ASTM A992.
2. STRUCTURAL PIPE SHALL CONFORM TO ASTM A-53 GRADE "B" AND STRUCTURAL TUBING SHALL CONFORM TO ASTM A-500 GRADE "B", Fy=46KSI.
3. ALL LIGHT GAGE STEEL TO CONFORM TO ASTM A653 GRADE 55 FOR ALL STRUCTURAL SHAPES, A653 GRADE 33 FOR ALL BLOCKING, FLASHINGS, MISCELLANEOUS CONNECTION PLATES, AND ANGLES.
4. ALL UNFINISHED BOLTS SHALL BE ASTM A-307 UNLESS NOTED OTHERWISE.
5. USE AISC USUAL GAGES FOR BOLT HOLES IN ALL STEEL SECTIONS UNLESS OTHERWISE NOTED.
6. THE STEEL FABRICATOR SHALL PROVIDE ADEQUATE TEMPORARY BRACING FOR ERECTION.
7. ALL BOLT HOLES ARE TO BE 1/16" OVERSIZED. ALL BOLTS SHALL HAVE WASHERS INSTALLED UNDER BOTH HEAD & NUT. SELF DRILLING SCREWS SHALL BE PER ESR-1976 OR EQUAL.
8. ALL STEEL SHALL BE PROTECTED FROM WEATHER AS FOLLOWS: STRUCTURAL STEEL SHALL BE HOT-DIP GALVANIZED (MINIMUM ASTM A123 OR A153, CLASS D) OR PAINTED WITH ZINC-RICH PRIMER, UNDERCOAT, AND FINISH COAT; OR EQUIVALENT PAINT SYSTEM. COLD-FORMED STEEL MEMBERS SHALL BE 55% ALUMINUM-ZINC ALOY COATED PER ASTM A792/A792M STANDARD IN ACCORDANCE TO AISI S200 TABLE A4-1, CP 90 COATING DESIGNATION.

   ALL EXPOSED STEEL FASTENERS, INCLUDING CAST-IN-PLACE ANCHOR BOLTS/RODS, SHALL BE STAINLESS STEEL (TYPE 304 MINIMUM), HOT-DIP GALVANIZED (ASTM A153, CLASS D MINIMUM), OR PROTECTED WITH CORROSION-PREVENTIVE COATING THAT DEMONSTRATED NO MORE THAN 2% OF RED RUST IN MINIMUM 1,000 HOURS OF EXPOSURE IN SALT SPRAY TEST PER ASTM B117. ZINC-PLATED FASTENERS DO NOT COMPLY WITH THIS REQUIREMENT. (EXAMPLE PROPRIETARY COATINGS THAT DO COMPLY WITH THE 1,000 HOUR REQUIREMENT INCLUDE BUT ARE NOT NECESSARILY LIMITED TO: GUK GUARD BY SIMPSON, KWIK-COTE BY HILTI, STALGARD BY ELCO, VISTACORR BY SFS INTEC, ETC.)

## GOVERNING CODES:

1. 2022 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR).
2. 2022 CALIFORNIA BUILDING CODE, VOLUMES 1 & 2 (PART 2, TITLE 24, CCR).
3. 2022 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24, CCR).
4. 2022 CALIFORNIA FIRE CODE (PART 9, TITLE 24, CCR).

## NOTES

1. CONCRETE ARE NOT DESIGNED TO BE ENCLOSED OR FOR STORAGE OF COMBUSTIBLE MATERIALS.
2. WALKWAY COVER HAS BEEN CHECKED FOR CLEAR & OBSTRUCTED WIND FLOW CONDITIONS & CAN BE WITHIN 6" MIN. FROM AN EXISTING BUILDING.
3. WALKWAY PIER FOOTING HAS BEEN CHECKED FOR D.S.A. BULLETIN 09-06 REV..
4. ALL WORK SHALL COMPLY WITH C.F.C. CHAPTER 33 DURING CONSTRUCTION.

## TESTING & INSPECTIONS REQUIRMENTS

1. INSPECTOR CLASS (MINIMUM REQUIREMENTS)
   CLASS 2
2. SELECTION OF THE PROJECT INSPECTOR AND TESTING AGENCY
   BY THE SCHOOL DISTRICT AND APPROVED BY D.S.A., A/E OF RECORD AND STRUCTURAL ENGINEER
3. COST OF THE PROJECT INSPECTOR (CA ADMIN. CODE 4-333(B) AND TESTING AGENCY (CA ADMIN. CODE 4-335)
   BY THE SCHOOL DISTRICT
4. COPIES OF THE REPORT TO
   ARCHITECT; STRUCTURAL ENGINEER; SCHOOL DISTRICT; D.S.A. (ORIGINAL); IOR; MANUFACTURER

## NOTICE OF DISCLAIMER FOR STRUCTURAL ENGINEERING RESPONSIBILITY

1. PER TITLE 24, PART 1, SECTION 4-316 (D & E) OF THE CALIFORNIA CODE OF REGULATIONS, THE DISTRICT SHALL HIRE AN ARCHITECT OR STRUCTURAL ENGINEER TO BE IN GENERAL RESPONSIBLE CHARGE OF SITE SPECIFIC PROJECT.
2. FOR SITE SPECIFIC PROJECT GERRARD HOMER & ASSOCIATES IS NOT THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE.
3. FOR SITE SPECIFIC PROJECT GERARD HOMER & ASSOCIATES RESPONSIBILITY IS LIMITED TO THE PREPARATION OF PLANS AND SPECIFICATIONS FOR A PORTION OF THE PROJECT AS DESIGNED BY THE ARCHITECT FOR INCORPORATION INTO THE PROJECT.
4. STRUCTURAL OBSERVATION OF CONSTRUCTION IS SPECIFICALLY EXCLUDED FROM GERARD HOMER & ASSOCIATES RESPONSIBILITY FOR SITE SPECIFIC PROJECT.

## SHADE STRUCTURE TESTING & INSPECTION GUIDELINE

THE DSA-103 GUIDELINES SHOWN ON THIS SHEET IS FOR ILLUSTRATION PURPOSES ONLY TO ASSIST IN THE COMPLETION OF FUTURE PROJECT-SPECIFIC FORM DSA-103. A FORM DSA-103 IS TO BE COMPLETED FOR EACH APPLICATION THAT THIS PC IS BEING INCORPORATED INTO AND THE EXAMPLE FORM DSA-103 IS TO BE CROSSED OUT ON THIS DRAWING.

### DSA 103-22 LIST OF STRUCTURAL TESTS & SPECIAL INSPECTIONS – 2022 CBC

IMPORTANT: THIS FORM IS ONLY A SUMMARY LIST OF STRUCTURAL TESTS AND SOME OF THE SPECIAL INSPECTIONS REQUIRED FOR THE PROJECT. GENERALLY, THE STRUCTURAL TESTS AND INSPECTIONS NOTED ON THIS FORM ARE THOSE THAT WILL BE PERFORMED BY THE GEOTECHNICAL ENGINEER OF RECORD, LABORATORY OF RECORD, OR SPECIAL INSPECTOR. THE ACTUAL COMPLETE TEST AND INSPECTION PROGRAM MUST BE PERFORMED AS DETAILED ON THE DSA APPROVED DOCUMENTS. THE APPENDIX AT THE BOTTOM OF THIS FORM IDENTIFIES WORK NOT SUBJECT TO DSA REQUIREMENTS FOR SPECIAL INSPECTION OR STRUCTURAL TESTING. THE PROJECT INSPECTOR IS RESPONSIBLE FOR PROVIDING INSPECTION OF ALL FACETS OF CONSTRUCTION, INCLUDING BUT NOT LIMITED TO, SPECIAL INSPECTIONS NOT LISTED ON THIS FORM SUCH AS STRUCTURAL WOOD FRAMING, HIGH-LOAD WOOD DIAPHRAGMS, COLD-FORMED STEEL FRAMING, ANCHORAGE OF NON-STRUCTURAL COMPONENTS, ETC., PER TITLE 24, PART 2, CHAPTER 17A (2022 CBC).

**NOTE: UNDEFINED SECTION & TABLE REFERENCES FOUND IN THIS DOCUMENT ARE FROM THE CBC, OR CALIFORNIA BUILDING CODE.

NOTE: REFERENCES ARE TO THE 2022 EDITION OF THE CALIFORNIA BUILDING CODE (CBC) UNLESS OTHERWISE NOTED.

| TEST OR SPECIAL INSPECTION |
|---|
| **SOILS** |
| S1. GENERAL: |
| a. VERIFY THAT:<br>SITE HAS BEEN PREPARED PROPERLY PRIOR TO PLACEMENT OF CONTROLLED FILL AND/OR EXCAVATIONS FOR FOUNDATIONS;<br>FOUNDATION EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL;<br>MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY. |
| S4. CAST-IN-PLACE DEEP FOUNDATIONS (PIERS): |
| a. INSPECT DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH PIER. |
| b. VERIFY PIER LOCATIONS, DIAMETERS, PLUMBNESS & LENGTHS. RECORD CONCRETE OR GROUT VOLUMES. |
| c. CONCRETE PIERS |
| **CONCRETE** |
| C1. CAST IN PLACE CONCRETE. |
| MATERIAL VERIFICATION AND TESTING: |
| a. VERIFY USE OF REQUIRED DESIGN MIX. |
| b. IDENTIFY, SAMPLE & TEST REINFORCING STEEL. |
| c. DURING CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, SLUMP & AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE. |
| d. TEST CONCRETE (COMPRESSION), f'c |
| e. BATCH PLANT INSPECTION – PERIODIC, DESIGN COMPLIES WITH 1705A.3.3.1 ITEM 2. |
| **STEEL** |
| S/A1. STRUCTURAL STEEL, COLD-FORMED STEEL & ALUMINUM USED FOR STRUCTURAL PURPOSES |
| MATERIAL VERIFICATION & TESTING: |
| a. VERIFY IDENTIFICATION OF ALL MATERIALS AND:<br>– MILL CERTIFICATES INDICATE MATERIAL PROPERTIES THAT COMPLY WITH REQUIREMENTS.<br>– MATERIAL SIZES, TYPES AND GRADES COMPLY WITH REQUIREMENTS. |
| b. TEST UNIDENTIFIED MATERIALS |
| c. EXAMINE SEAM WELDS OF HSS SHAPES |
| INSPECTION: |
| d. VERIFY AND DOCUMENT STEEL FABRICATION PER DSA-APPROVED CONSTRUCTION DOCUMENTS. |

## NOTICE OF DISCLAIMER FOR STRUCTURAL ENGINEERING RESPONSIBILITY

5. ALL CONSTRUCTION ACTIVITIES RELATED TO STRUCTURAL ENGINEERING SHALL BE DELEGATED TO A QUALIFIED ENGINEER BY THE DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE. THESE ACTIVITIES INCLUDE, BUT ARE NOT LIMITED TO APPROVAL OF INSPECTOR QUALIFICATIONS, STRUCTURAL OBSERVATION OF CONSTRUCTION, REVIEW OF INSPECTION REPORTS, AND SIGNING OFF THE VERIFIED REPORTS FOR COMPLETED WORK. GERARD HOMER & ASSOCIATES SHALL NOT BE LISTED ON THE DSA 1 OR BE REQUIRED TO SIGN A DSA 1.0DL.
6. GERARD HOMER & ASSOCIATES WILL BE RESPONSIBLE FOR RESPONDING TO QUESTIONS PERTAINING TO THE PLANS AND SPECIFICATIONS FOR THE SHELTER OF THE PC WHICH ARISE DURING PLAN CHECK AND CONSTRUCTION.
7. THE ARCHITECT OR DSA SHALL NOT ADD TO OR CHANGE THIS PC WITHOUT PERMISSION FROM GERARD HOMER & ASSOCIATES.

## SHEET INDEX


S1 FOUNDATION PLANS, GENERAL NOTES, DETAILS
S2 ROOF FRAMING PLANS
S3 SECTION, TYPICAL ELEVATION, DETAILS
S4 SECTION, DETAIL


## BUILDING DATA

A-2 FOR LUNCH SHELTER
A-3 OCCUPANCY FOR GENERAL ASSEMBLY
II-B CONSTRUCTION
ALLOW. AREA = 1500 SQ.FT.
HEIGHT = 8'-0" MIN. TO 16'-0" MAX. COLUMN HEIGHT

| REVISIONS | | | |
|---|---|---|---|
| NO. | DATE | BY | DESCRIPTION |
| | | | |

REGISTERED PROFESSIONAL ENGINEER GERARD HOMER EXP. 3-31-24 S2373 STRUCTURAL STATE OF CALIFORNIA

PRE-CHECK (PC) DOCUMENT
CODE: 2022 C.B.C.
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121274-PC
REVIEWED BY: KJS
SS ☐ FLS ☐ MCS ☐ CFS ☐
DATE: 9/1/2023


16765 SYPERT SCHOOL RD.
HOLLAND, TX. 76534
Gerard Homer and Associates
STRUCTURAL ENGINEERS
PH.: (559) 734-8575
Email: ghomerse@gmail.com


| DWN BY: | CHKD BY: |
|---|---|
| B.S.H. | G.B.H. |

DATE: 8/30/23

PROJECT NO: 23020
255032 25165

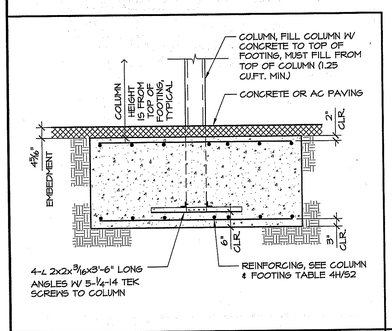
DRAWING TITLE
FOUNDATION PLAN
GENERAL NOTES
DETAILS

SHEET NUMBER
**S1**
OF 4 SHEETS

## GENERAL NOTES

### NOTES FOR ACHITECT TO VERIFY & COMPLY

1. GRADING PLANS, DRAINAGE IMPROVEMENTS, ROAD AND ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY.
2. SUBSTITUTIONS AFFECTING DSA REGULATED ITEMS SHALL BE CONSIDERED AS A CONSTRUCTION CHANGE DOCUMENT OR ADDENDUM, AND SHALL BE APPROVED BY DSA PRIOR TO FABRICATION AND INSTALLATION PER DSA IR A-6 AND SECTION 338(C) PART 1, TITLE 24 CCR.
3. LOCATION OF ELECTRICAL COMPONENTS MOUNTED TO COLUMNS SHALL COMPLY WITH ASCE 24-14, SECTION 7.2.
4. THE ARCHITECT SHALL VERIFY COMPLIANCE W/ BB/B4 OR RC-7, SECTION 5.8) IF COVER IS NEAR A SLOPE AND NOTIFY THE P.C. ENGINEER. IF COVER IS NEAR A SLOPE, THE INSTALLATION OF THIS STRUCTURE SHALL NOT BE SUBMITTED AS OVER-THE-COUNTER.




OPTIONAL SPREAD FOOTING @ ADDITIONAL COST — SCALE 1/2" = 1'-0" — 8B

## SHEET INDEX & STRUCTURAL TESTS AND INSPECTIONS SHEET — 4K

### SITE SPECIFIC INFORMATION TABLE

| | | | | | |
|---|---|---|---|---|---|
| 0.643 | SEISMIC COEFFICIENT, Se | | | SELECT OCCUPANT LOAD FACTOR (OLF) | DETERMINATION OF BAY SPACING FOR COVER NEXT TO RISK CATEGORY III & $S_{DS}$ > 2.0 |
| 0.264 | SEISMIC COEFFICIENT, S1 ② | 93 | WIND SPEED (3 SEC. GUST) @ MPH | X ASSEMBLY–CONCENTRATED (7 SQ. FT./OCCUPANT) | |
| 1.285 | SEISMIC COEFFICIENT, Fa | C | WIND EXPOSURE CATEGORY | ASSEMBLY–NONCONCENTRATED (15 SQ. FT. /OCCUPANT) | 25' BAYS x 2.0 / ACTUAL $S_{DS}$ x 1.25 = [ ] MAXIMUM BAY SPACING IN FEET ** |
| 2.072 | SEISMIC COEFFICIENT, Fv | 10 | WIDTH OF COVER AREA IN FT. | 98 DETERMINE OCCUPANT LOAD = AREA/OLF | |
| 0.827 | SEISMIC COEFFICIENT, Sms | 40.5 | LENGTH OF COVERED AREA IN FT. | DETERMINE RISK CATEGORY | ** BAY SPACING ON PLAN VIEWS TO BE REVISED TO MATCH & USE HIGHER SEISMIC COLUMNS & FOOTINGS. |
| 0.821 | SEISMIC COEFFICIENT, Sm1 ① | 405 | AREA IN SQ. FT. | X RISK CATEGORY II OCCUPANTS ≤ 300 | |
| 0.573 | SITE SPECIFIC, Ce ③ | 2 | NUMBER OF BAYS | RISK CATEGORY III OCCUPANTS > 300 | |
| 0.551 | SEISMIC COEFFICIENT, Sds | 16 | MAXIMUM COLUMN HEIGHT IN FT. | RISK CATEGORY III ADJACENT TO RISK CATEGORY III BUILDING | |
| 0.547 | SEISMIC COEFFICIENT, Sd1 | 2W12 | ROOF SLOPE IN./FT. | NOTE: DUE TO REDUNDANCY FACTOR THERE CAN BE NO REDUCTION IN $S_{DS}$ PER ASCE 7-16 12.8.1.3 FOR COVERS. | |

① FOR THE SITE CLASS D, Sm1 SHALL BE INCREASED BY 50% UNLESS A SITE SPECIFIC GROUND MOTION HAZARD ANALYSIS IS PERFORMED. Sms SHALL NOT BE LESS THAN Sm1.

② FOR SITE CLASS E WITH S1 GREATER THAN OR EQUAL TO 0.2, PROVIDED T IS LESS THAN OR EQUAL TO Ts, EQUATION 12.8-2 SHALL BE USED.

③ PER ASCE 7-16 EQUATION 12.8-2.

| GEOHAZARD REPORTS | | | LIQUEFIABLE SOIL OR SITE CLASS F & E | | |
|---|---|---|---|---|---|
| GEOHAZARD REPORT | X REQUIRED | NOT REQUIRED | LIQUEFIABLE SOILS | YES | X NO |
| GEOHAZARD REPORTS ARE NOT REQUIRED FOR CANTILEVERED COLUMN OPEN STRUCTURES PROVIDED THEY ARE CONSTRUCTED OF METAL, DO NOT EXCEED 4,000 SF. IN PLAN AREA AND ARE NOT LOCATED WITHIN STATE OR LOCAL GEOHAZARD ZONES. THE STRUCTURES MAY BE SPLIT INTO MULTIPLE SEISMICALLY SEPARATED STRUCTURES TO STAY BELOW THE 4,000 SF. TRIGGER. | | | IF STRUCTURE IS LOCATED IN AN AREA WITH LIQUEFIABLE SOIL OR SITE CLASS F & E, OVER-THE-COUNTER SUBMITTAL IS NOT ALLOWED AND REGULAR PROJECT SUBMITTAL IS REQUIRED. IF SITE IS NOT IN A MAPPED LIQUEFACTION HAZARD ZONE, IT MAY BE PRESUMED THAT NO LIQUEFACTION HAZARD EXISTS ON THAT SITE UNLESS A SITE-SPECIFIC GEOTECHNICAL REPORT IDENTIFIES SUCH HAZARD. | | |
| X CONCRETE EXPOSURE F0 | | CONCRETE EXPOSURE F2* | | | |

* F2 IS REQUIRED FOR ANY SNOW LOAD 30 PSF OR GREATER.

IF SITE SPECIFIC PROJECT IS LOCATED IN A FLOOD ZONE OTHER THAN X, A LETTER STAMPED AND SIGNED FROM A SOILS ENGINEER IS REQUIRED TO VALIDATE THE ALLOWABLE SOIL VALUES SPECIFIED ON THIS P.C., SEE GENERAL NOTES NUMBER 8.

### SINGLE POLE WALKWAY OPTIONS TABLE

| LOADING | COLUMN HEIGHT | ROOF PANEL OPTION | | PROJECTION |
|---|---|---|---|---|
| X 20 PSF SL | 12' HEIGHT | X McELROY MS6A-RIB | | 8'-0" |
| 20 PSF SL | 14' HEIGHT | AEP SPAN HR-36 | | 10'-0" |
| 30 PSF SL | X 16' HEIGHT | 3 P.S.F. MISC. DEAD LOAD | | 12'-0" |
| | | | | 14'-0" |

| ROOF PITCH | COLUMN LOCATION | SEISMIC | | CONFIGURATION PER 6K/S4 | | | | |
|---|---|---|---|---|---|---|---|---|
| X 2:12 MAX. | X OFF-SET | X LOWER * | YES | | | | | |
| 4:12 MAX. | CENTERED | HIGHER ** | X NO | "A" | "B" | "C" | X "D" | |
| | | RC III $S_{DS}$ > 2.0 | | | | | | |

* R.C. II Sds ≤1.0 & R.C. III Sds ≤ 0.80

** R.C. II Sds ≤2.5 & R.C. III Sds ≤2.0

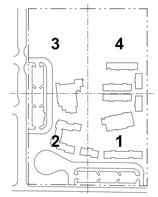
1. SEE 6HSS FOR ROOF DECK PROFILES & SECTION PROPERTIES.
2. LIVE LOAD, LL = ROOF LIVE LOAD.
3. SNOW LOAD, SL = SNOW LOAD.
4. 3 P.S.F. MISC. DEAD LOAD NOT ALLOWED WITH SNOW LOAD, MISC. DEAD LOAD CAN INCLUDE SPRINKLERS OR SOLAR, BOTH ARE NOT ELIGIBLE FOR OVER THE COUNTER PLAN CHECK. LOADS CAN NOT BE SUPPORTED BY ROOF PANELS. ONLY THE BEAMS & PURLINS CAN SUPPORT MISC. DEAD LOAD.
5. SEE SITE SPECIFIC TABLE.
6. FOR SNOW LOAD, IF THE HORIZONTAL SEPARATION DISTANCE BETWEEN ADJACENT STRUCTURES, a, IS LESS THAN 20 FT. (6.1 M) AND LESS THAN SIX TIMES THE VERTICAL SEPARATION DISTANCE (w-s/s), THEN THE REQUIREMENTS FOR THE LEEWARD DRIFT OF SECTION 7.7.1 SHALL BE USED TO DETERMINE THE DRIFT LOAD ON THE LOWER STRUCTURE. IF THE SNOW DRIFT ANALYSIS IS REQUIRED IT SHALL BE PROVIDED BY THE PC APPLICANT & THE SITE APPLICATION IS NOT ELIGIBLE FOR OVER THE COUNTER SUBMITTAL.

OPTIONS TABLE & SITE SPECIFIC INFORMATION TABLE — 8K

## KEYNOTES

## NOTES

## KEY PLAN




FACILITY:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL**
**2801 W. VINE STREET**
**LODI, CA 95242**

PROJECT:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC. 1**

SHEET NAME:
**FOUNDATION PLAN, GENERAL NOTES, DETAILS**

**DSA SUBMITTAL**

DATE: | CLIENT PROJ NO:

SHEET:

**S1**

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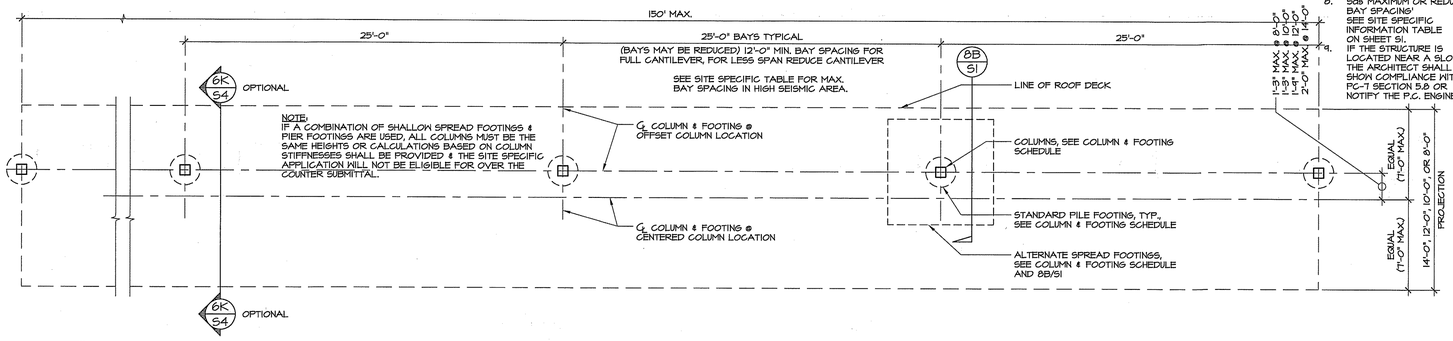
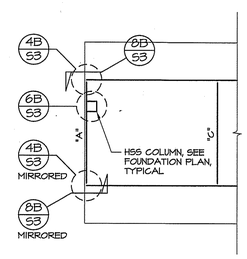
## COLUMN & FOOTING TABLE (NOTE 6)

| COLUMN HEIGHT | ROOF PITCH | LOAD | LOWER SEISMIC ($S_{DS}$ ≤ 1.0 RISK CATEGORY II) ($S_{DS}$ ≤ 0.8 RISK CATEGORY III) ≤ 12'–0" PROJECTION: COLUMN SIZE | PILE FOOTING | ALTERNATE SPREAD FOOTING (8B/S1) 1 | LOWER SEISMIC ≤ 14'–0" PROJECTION: COLUMN SIZE | PILE FOOTING | ALTERNATE SPREAD FOOTING (8B/S1) 1 | HIGHER SEISMIC ($S_{DS}$ ≤ 2.5 RISK CATEGORY II) ($S_{DS}$ ≤ 2.0 RISK CATEGORY III) (8) ≤ 12'–0" PROJECTION: COLUMN SIZE | PILE FOOTING | ALTERNATE SPREAD FOOTING (8B/S1) 1 | HIGHER SEISMIC ≤ 14'–0" PROJECTION: COLUMN SIZE | PILE FOOTING | ALTERNATE SPREAD FOOTING (8B/S1) 1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12' COLUMN HEIGHT | 2:12 MAX. | 20psf LL/SL | HSS8x8x¼ | 2'-0"x10'-3" DEEP | 9'-3"SQx2'-6" THICK (4) | HSS10x8x⅜ | 2'-0"x11'-9" DEEP | 10'-4"SQx2'-6" THICK (4) | HSS8x8x⅝ | 2'-0"x11'-10" DEEP | 10'-6"SQx2'-6" THICK (4) | HSS10x8x⅝ | 2'-0"x13'-2" DEEP | 11'-4"SQx2'-6" THICK (5) |
| | | 30psf SL | | | | | | | | | | HSS10x8x⅜ | | |
| | 4:12 MAX. | 20psf LL/SL | HSS10x8x⅜ | 2'-0"x12'-2" DEEP | 9'-8"SQx2'-6" THICK (4) | HSS10x8x⅜ | 2'-0"x13'-0" DEEP | 10'-10"SQx2'-6" THICK (4) | HSS10x8x⅝ | 2'-0"x12'-2" DEEP | | | | |
| | | 30psf SL | | | | | | | | | | | | |
| 14' COLUMN HEIGHT | 2:12 MAX. | 20psf LL/SL | HSS8x8x¼ | 2'-0"x10'-8" DEEP | 9'-8"SQx2'-6" THICK (4) | HSS8x8x⅝ | 2'-0"x12'-2" DEEP | 10'-10"SQx2'-6" THICK (4) | HSS8x8x⅝ | 2'-0"x12'-3" DEEP | 11'-0"SQx2'-6" THICK (5) | HSS10x8x⅜ | 2'-0"x13'-6" DEEP | 11'-10"SQx2'-6" THICK (5) |
| | | 30psf SL | HSS6x8x5/16 | | | | | | | | | | | |
| | 4:12 MAX. | 20psf LL/SL | HSS10x8x⅜ | 2'-0"x12'-6" DEEP | 9'-10"SQx2'-6" THICK (4) | HSS10x8x⅜ | 2'-0"x13'-2" DEEP | 11'-0"SQx2'-6" THICK (5) | HSS10x8x⅝ | 2'-0"x12'-6" DEEP | | | | |
| | | 30psf SL | | | | | | | | | | | | |
| 16' COLUMN HEIGHT | 2:12 MAX. | 20psf LL/SL | HSS8x8x⅝ | 2'-0"x11'-0" DEEP | 10'-0"SQx2'-6" THICK (4) | HSS10x8x⅝ | 2'-0"x12'-6" DEEP | 11'-3"SQx2'-6" THICK (5) | HSS10x8x⅜ | 2'-0"x12'-8" DEEP | 11'-4"SQx2'-6" THICK (5) | HSS10x8x½ | 2'-0"x14'-0" DEEP | 12'-4"SQx2'-6" THICK (5) |
| | | 30psf SL | | | | | | | | | | | | |
| | 4:12 MAX. | 20psf LL/SL | HSS10x8x⅜ | 2'-0"x12'-8" DEEP | 10'-2"SQx2'-6" THICK (4) | HSS10x8x½ | 2'-0"x13'-6" DEEP | | | 2'-0"x12'-8" DEEP | | | | |
| | | 30psf SL | | | | | | | | | | | | |

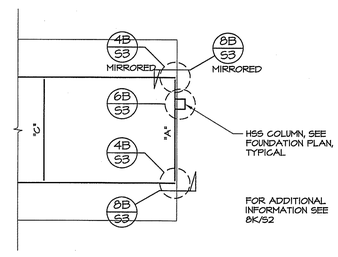
NOTES:
1. ALTERNATE SPREAD FOOTINGS ARE OPTIONAL FOOTINGS @ AN ADDITIONAL COST.
2. NO SNOW LOAD ALLOWED W/ 3 P.S.F. MISC. DEAD LOAD.
3. COLUMN EMBEDMENT OF PILE FOOTING TO EXTEND INTO FOOTING 3"-6" MAX. FROM BOTTOM, SEE SECTION 6K/S3.
4. PROVIDE 8-#6 REBARS EACH WAY @ TOP & BOTTOM OF FOOTING.
5. PROVIDE 10-#6 REBARS EACH WAY @ TOP & BOTTOM OF FOOTING.
6. IF SITE SPECIFIC PROJECT IS LOCATED IN A FLOOD ZONE OTHER THAN ZONE X, A LETTER STAMPED AND SIGNED FROM A SOILS ENGINEER IS REQUIRED TO VALIDATE THE ALLOWABLE SOIL VALUES SPECIFIED ON THIS P.C., SEE GENERAL NOTES NUMBER 11.
7. MINIMUM PIER SPACING IS 3 DIAMETERS.
8. 5da MAXIMUM OR REDUCE BAY SPACING' SEE SITE SPECIFIC INFORMATION TABLE ON SHEET S1.
9. IF THE STRUCTURE IS LOCATED NEAR A SLOPE, THE ARCHITECT SHALL SHOW COMPLIANCE WITH IR PC-7 SECTION 5.8 OR NOTIFY THE P.C. ENGINEER.




FOUNDATION PLAN — SCALE ¼" = 1'-0" — 4H

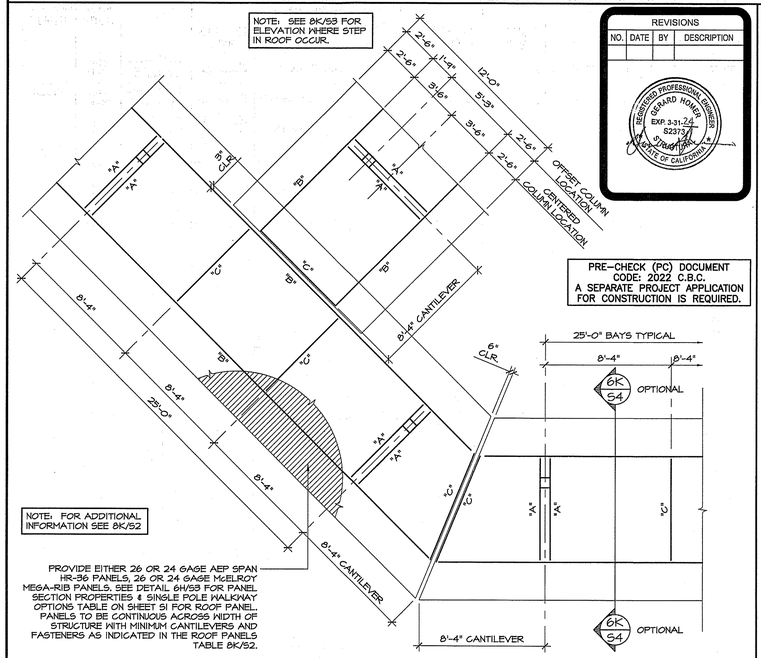



PLAN @ UPPER ROOF WHERE STEP OCCURS




PLAN @ LOWER ROOF WHERE STEP OCCURS

ROOF FRAMING PLAN — SCALE ¼" = 1'-0" — 4K




ROOF FRAMING PLAN @ 45° OPTION — SCALE ¼" = 1'-0" — 8B

## ROOF PANEL TABLE (1, 3, 4, & 6)

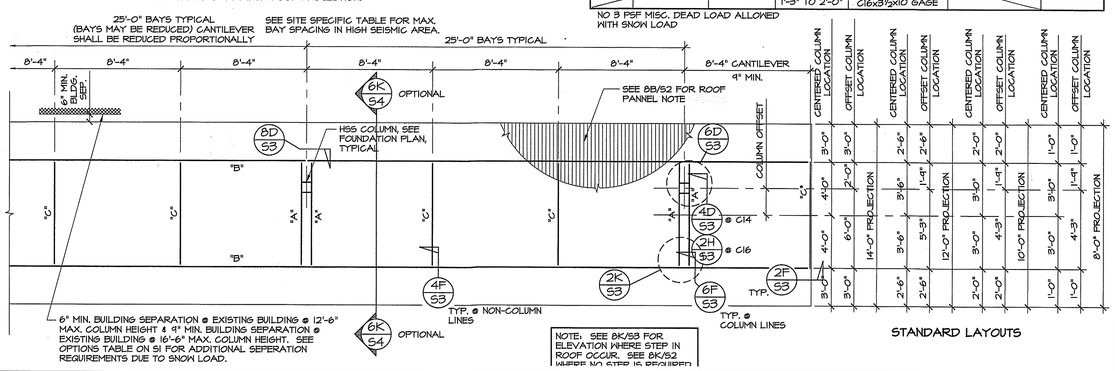
| ROOF PITCH | LOAD | MINIMUM REQUIRED CANTILEVER LENGTHS @ 6'–0" CENTER SPAN (3) | MINIMUM REQUIRED CANTILEVER LENGTHS @ 7'–0" CENTER SPAN (3) | MINIMUM REQUIRED CANTILEVER LENGTHS @ 8'–0" CENTER SPAN (3, & 5) | SCREWS PER PANEL PER SUPPORT |
|---|---|---|---|---|---|
| 2:12² MAX. | 20psf LL/SL | NO CANTILEVER REQUIRED | 1'-0" MIN. | 0'-6" MIN. | (4)- #12-14x1" LONG W/ ½"ø TWINSEAL WASHERS |
| | 30psf SL | | 1'-6" MIN. | 1'-0" MIN. | |
| 4:12 MAX. | 20psf LL/SL | | 1'-6" MIN. | 1'-4" MIN. | (5)- #12-14x1" LONG W/ ½"ø TWINSEAL WASHERS |
| | 30psf SL | | 2'-0" MIN. | 2'-0" MIN. | |

1. SEE 8K/S1 FOR ROOF PANEL OPTIONS AND 6H/S3 FOR PROFILES & PROPERTIES.
2. ¼ IN 12 MINIMUM.
3. WHEN NOT USING STANDARD LAYOUTS SHOWN ON ROOF FRAMING PLAN BELOW, THE ROOF PANELS MUST MEET THE MINIMUM REQUIRED CANTILEVER LENGTHS.
4. LENGTHS OF CANTILEVERS MUST BE EQUAL EACH SIDE, TYPICAL.
5. MUST USE 24 GAGE ROOF PANEL OPTIONS @ 8'-0" CENTER SPAN LAYOUT OPTION.
6. MAXIMUM ALLOWABLE CANTILEVER AT 24 GAGE ROOF PANELS IS 3'-0". IN NO CASE SHALL THE ROOF PANEL LENGTH EXCEED THE 14'-0" MAXIMUM ROOF PROJECTION.

## BEAM TABLE

| PITCH | PROJECTION | LOADING | COLUMN OFFSET | CROSS BEAM "A" | SIDE BEAM "B" | BLOCKING & END CLOSURES |
|---|---|---|---|---|---|---|
| 1/4:12 MIN. 2:12 MAX. | ≤ 12'-0" | 20psf LL/SL | 0'-0" TO 1'-9" | C14x2½x12 GAGE | C14x2½x12 GAGE | "C" |
| | | 30psf SL | 0'-0" TO 1'-9" | C14x2½x12 GAGE | C18x2½x12 GAGE | |
| | > 12'-0", ≤ 14'-0" | 20psf LL/SL | 0'-0" TO 1'-9" | C14x2½x12 GAGE | C18x2½x12 GAGE | |
| | | | 1'-10" TO 2'-0" | C16x3½x12 GAGE | | |
| | | 30psf SL | 0'-0" TO 0'-10" | C14x2½x12 GAGE | | |
| | | | 0'-11" TO 1'-8" | C16x3½x12 GAGE | C18x2½x12 GAGE | |
| | | | 1'-9" TO 2'-0" | C16x3½x10 GAGE | | |
| 4:12 MAX. | ≤ 12'-0" | 20psf LL/SL | 0'-0" TO 1'-9" | C14x2½x12 GAGE | C18x2½x12 GAGE | 20 GAGE CEE W/ 1½" OR 2" FLANGES, DEPTH TO MATCH SIDE BEAM DEPTH, SEE 2F & 4F/S3 |
| | | 30psf SL | 0'-0" TO 1'-9" | C14x2½x12 GAGE | C18x2½x12 GAGE | |
| | > 12'-0", ≤ 14'-0" | 20psf LL/SL | 0'-0" TO 1'-3" | C14x2½x12 GAGE | | |
| | | | 1'-4" TO 2'-0" | C16x3½x12 GAGE | C18x2½x12 GAGE | |
| | | | 2'-0" | C16x3½x10 GAGE | | |
| | | 30psf SL | 0'-0" TO 0'-5" | C14x2½x12 GAGE | | |
| | | | 0'-6" TO 1'-2" | C16x3½x12 GAGE | C18x2½x10 GAGE | |
| | | | 1'-3" TO 2'-0" | C16x3½x10 GAGE | | |

NO 3 PSF MISC. DEAD LOAD ALLOWED WITH SNOW LOAD




STANDARD LAYOUTS

NOTE: SEE 8K/S3 FOR ELEVATION WHERE STEP IN ROOF OCCUR. SEE 8K/S2 WHERE NO STEP IS REQUIRED

ROOF FRAMING PLANS — SCALE ¼" = 1'-0" — 8K

REVISIONS

| NO. | DATE | BY | DESCRIPTION |
|---|---|---|---|

REGISTERED PROFESSIONAL ENGINEER — GERARD HOMER — EXP. 3-31-24 — S23737 — STRUCTURAL — STATE OF CALIFORNIA

PRE-CHECK (PC) DOCUMENT
CODE: 2022 C.B.C.
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121474-PC
REVIEWED FOR
SS ☑ FLS ☐ ACS ☐ CL ☐
DATE: 9/1/2023

Gerard Homer and Associates
STRUCTURAL ENGINEERS
16765 SYPERT SCHOOL RD.
HOLLAND, TX. 76534
PH.: (559) 734-8875
Email: ghomerse@gmail.com

| DWN BY: B.G.H. | CHKD BY: G.B.H. |
|---|---|
| DATE: 8/30/23 | |
| PROJECT NO: 23020_25165 | |

DRAWING TITLE: ROOF FRAMING PLANS

SHEET NUMBER: S2 OF 4 SHEETS

AGENCY APPROVAL:

LODI USD

HMC DESIGN FOR GOOD Architects
003431-010-000
2101 CAPITOL AVENUE, SUITE 100, SACRAMENTO, CA, 95816
916 368 7990 / www.hmcarchitects.com

ISSUE

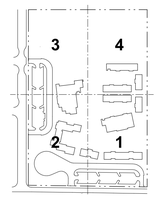
| Δ | DESCRIPTION | DATE |
|---|---|---|

PROJECT: SINGLE POST WALKWAY COVER VALLEY SCHOOL SHELTERS

KEYNOTES

NOTES

KEY PLAN




FACILITY:
SAMUEL M. GANTNER ELEMENTARY SCHOOL
2801 W. VINE STREET
LODI, CA 95242

PROJECT:
SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC. 1

SHEET NAME:
ROOF FRAMING PLANS

DSA SUBMITTAL

DATE: | CLIENT PROJ NO:

SHEET:

S2

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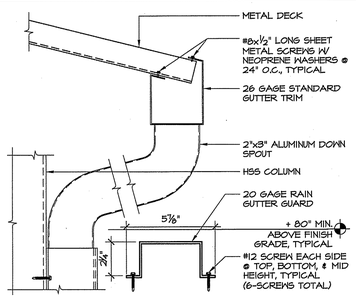
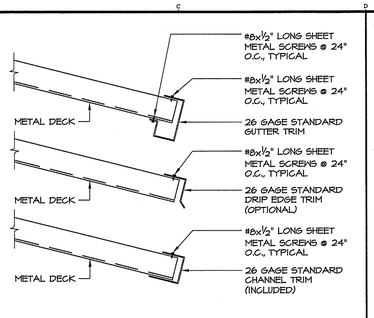
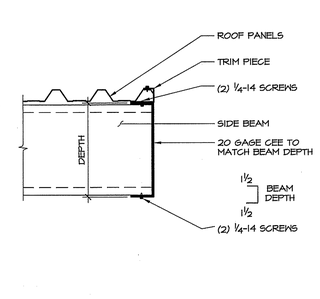


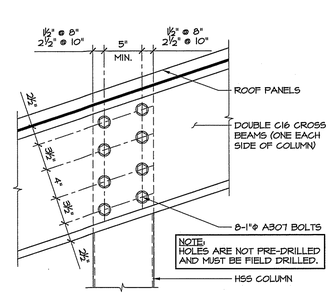

BOX GUTTER SCALE 3" = 1'-0" 2B



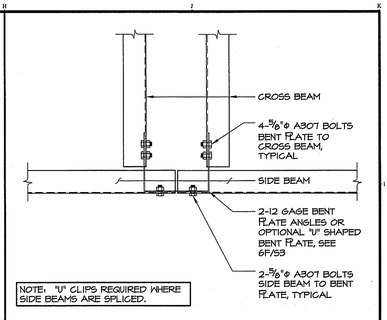

FASCIA OPTIONS SCALE 3" = 1'-0" 2D



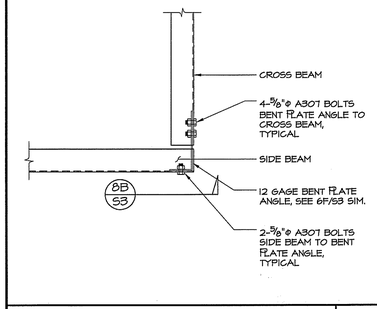

BEAM END SCALE 1½" = 1'-0" 2F



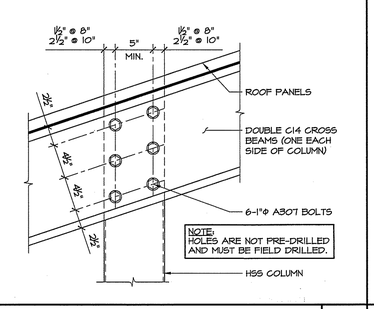

16" CROSS BEAM TO COLUMN SCALE 1½" = 1'-0" 2H



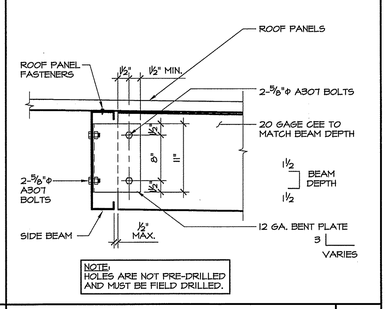

SIDE BEAMS TO CROSS BEAMS SCALE 1½" = 1'-0" 2K



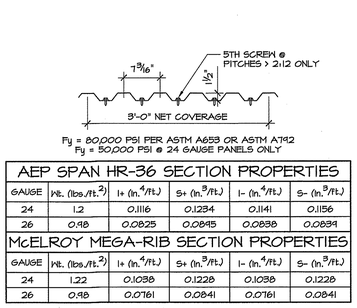

BEAM TO BEAM SCALE 1½" = 1'-0" 4B




14" CROSS BEAM TO COLUMN SCALE 1½" = 1'-0" 4D




BRACE TO BEAM SCALE 1½" = 1'-0" 4F




Fy = 80,000 PSI PER ASTM A653 OR ASTM A792
Fy = 50,000 PSI @ 24 GAUGE PANELS ONLY

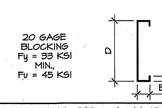
AEP SPAN HR-36 SECTION PROPERTIES

| GAUGE | Wt. (lbs./ft.²) | I+ (in.⁴/ft.) | S+ (in.³/ft.) | I- (in.⁴/ft.) | S- (in.³/ft.) |
|---|---|---|---|---|---|
| 24 | 1.2 | 0.1116 | 0.1234 | 0.1141 | 0.1156 |
| 26 | 0.98 | 0.0825 | 0.0845 | 0.0838 | 0.0839 |

McELROY MEGA-RIB SECTION PROPERTIES

| GAUGE | Wt. (lbs./ft.²) | I+ (in.⁴/ft.) | S+ (in.³/ft.) | I- (in.⁴/ft.) | S- (in.³/ft.) |
|---|---|---|---|---|---|
| 24 | 1.22 | 0.1038 | 0.1228 | 0.1038 | 0.1228 |
| 26 | 0.98 | 0.0761 | 0.0841 | 0.0761 | 0.0841 |

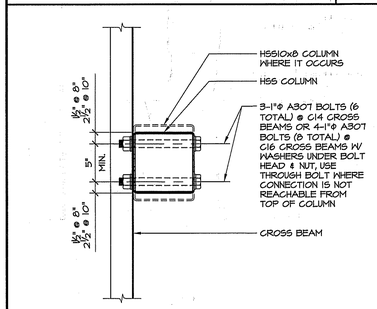
SECTION PROPERTIES ARE EFFECTIVE SECTION PROPERTIES TYP.



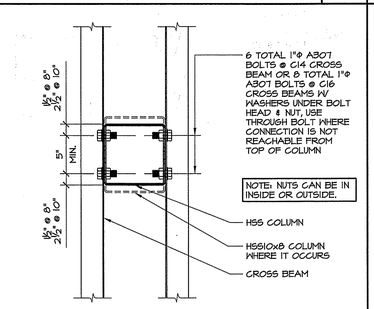

CEE SECTION PROPERTIES

| SECTION DxB | GAGE | WEIGHT lb/ft. | Ae in.² | AXIS X-X Ix in.⁴ | AXIS X-X Sx in.³ | AXIS Y-Y Iy in.⁴ | AXIS Y-Y Sy in.³ | L in. |
|---|---|---|---|---|---|---|---|---|
| C14x1½ | 20 | 2.05 | 0.117 | 7.093 | 0.742 | 0.068 | 0.05 | - |
| C14x2½ | 12 | 7.14 | 1.14 | 53.354 | 7.622 | 1.414 | 0.715 | 0.916 |
| C16x1½ | 20 | 2.29 | 0.1172 | 9.492 | 0.859 | 0.069 | 0.051 | - |
| C16x3½ | 10 | 11.02 | 1.8 | 112.26 | 13.517 | 4.32 | 1.582 | 0.984 |
| C18x2½ | 10 | 10.54 | 1.619 | 118.0 | 12.283 | 1.84 | 0.897 | 0.916 |
| C18x1½ | 20 | 2.54 | 0.1174 | 12.261 | 0.964 | 0.07 | 0.051 | - |
| C18x2½ | 12 | 8.51 | 1.149 | 100.08 | 9.8 | 1.49 | 0.725 | 0.916 |

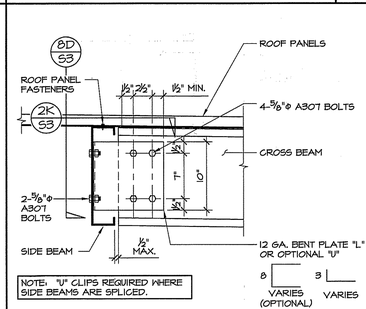
MATERIAL PROPERTIES SCHEDULES 6H



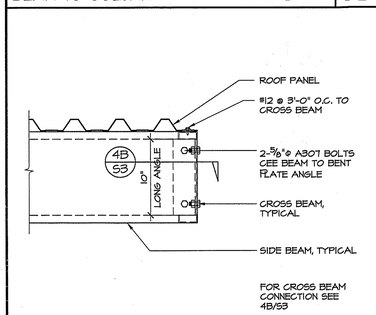

BEAM TO COLUMN SCALE 1½" = 1'-0" 6B



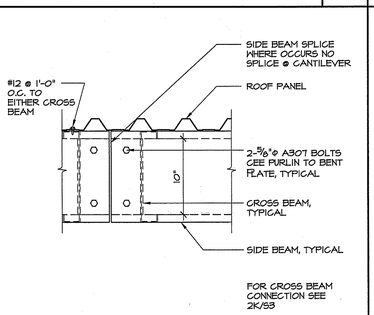

BEAM TO COLUMN SCALE 1½" = 1'-0" 6D



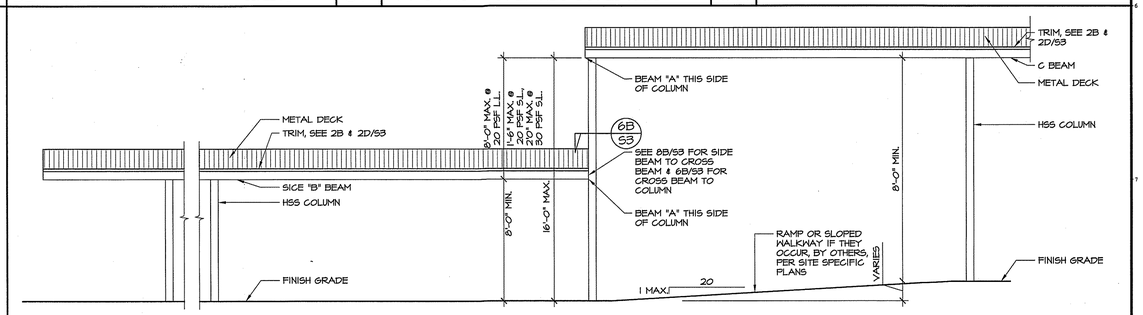

BEAM TO BEAM SCALE 1½" = 1'-0" 6F




BEAM TO BEAM SCALE 1½" = 1'-0" 8B




SIDE BEAM SPLICE SCALE 1½" = 1'-0" 8D




ELEVATION SCALE 1/4" = 1'-0" 8K

REVISIONS

| NO. | DATE | BY | DESCRIPTION |
|---|---|---|---|
| | | | |

REGISTERED PROFESSIONAL ENGINEER GERARD HOMER EXP. 3-31-24 S23737 STRUCTURAL STATE OF CALIFORNIA

PRE-CHECK (PC) DOCUMENT CODE: 2022 C.B.C. A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT
APP: 02-121474 PC
REVIEWED FOR
SS ☑ FLS ☑ "ACS" ☐ CLS ☐
DATE: 9/1/2023

16765 SYPERT SCHOOL RD.
HOLLAND, TX. 76534
Gerard Homer and Associates
STRUCTURAL ENGINEERS
PH.: (559) 734-8675
Email: ghomeres@gmail.com

DWN BY: B.G.H. | CHKD BY: G.B.H.

DATE: 8/30/23

PROJECT NO: 23020 1/S1/C5

DRAWING TITLE
SECTION
TYPICAL ELEVATION
DETAILS

SHEET NUMBER
S3
OF 4 SHEETS

PROJECT:
# SINGLE POST WALKWAY COVER
## VALLEY SCHOOL SHELTERS

AGENCY APPROVAL:

LODI USD

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

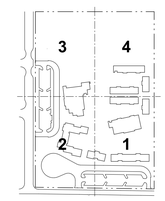
ISSUE

| Δ | DESCRIPTION | DATE |
|---|---|---|

KEYNOTES

NOTES

KEY PLAN




FACILITY:
SAMUEL M. GANTNER ELEMENTARY SCHOOL
2801 W. VINE STREET
LODI, CA 95242

PROJECT:
SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC. 1

SHEET NAME:
SECTION, TYPICAL ELEVATION, DETAILS

DSA SUBMITTAL

DATE: | CLIENT PROJ NO:

SHEET:

S3

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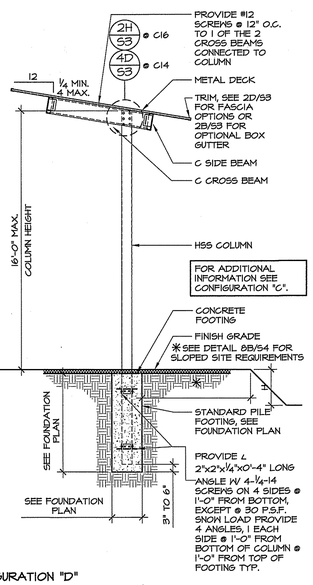
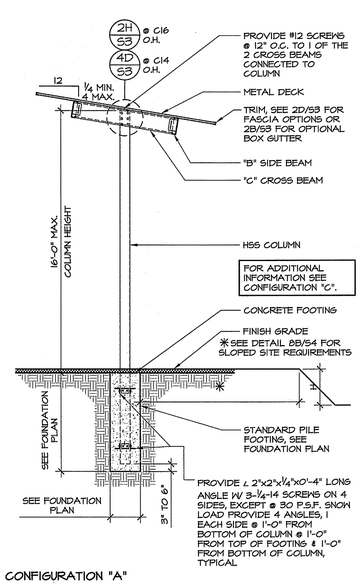
PLEASE RECYCLE

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON FULL SIZE SHEETS (ORIGINAL PAGE SIZE)




CONFIGURATION "D"

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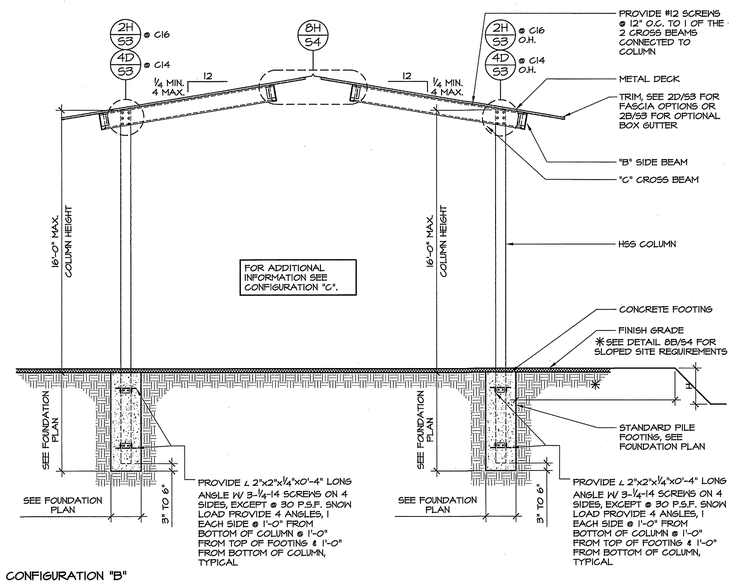
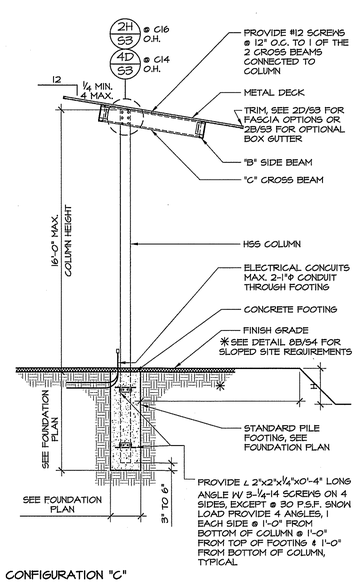
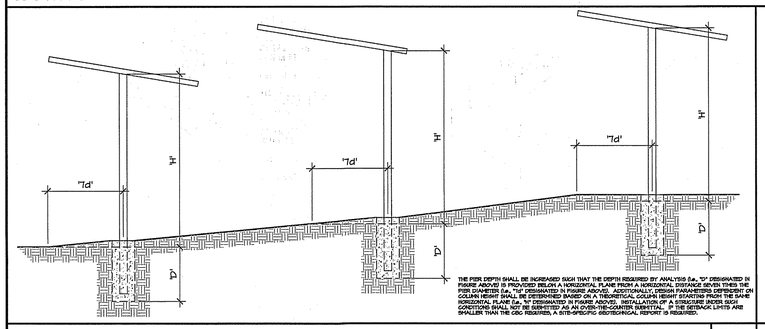



CONFIGURATION "B"



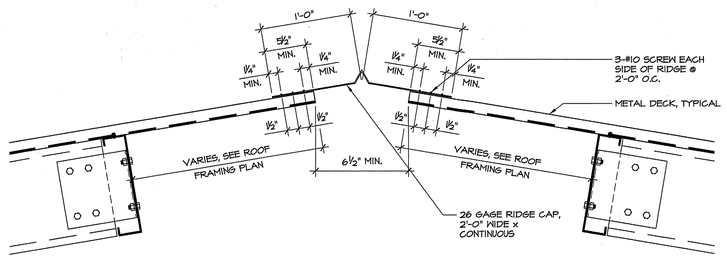

CONFIGURATION "C"

## SECTIONS




THE PIER DEPTH SHALL BE INCREASED SUCH THAT THE DEPTH REQUIRED BY ANALYSIS (i.e. "D" DESIGNATED IN FIGURE ABOVE) IS PROVIDED BELOW A HORIZONTAL PLANE FROM A HORIZONTAL DISTANCE SEVEN TIMES THE PIER DIAMETER (i.e., "7d" DESIGNATED IN FIGURE ABOVE). ADDITIONALLY, DESIGN PARAMETERS DEPENDENT ON THE PIER DEPTH SHALL BE BASED ON THE DEPTH REQUIRED BY ANALYSIS (i.e. "D" DESIGNATED IN FIGURE ABOVE) BELOW A HORIZONTAL PLANE (i.e., "H" DESIGNATED IN FIGURE ABOVE). INSTALLATION OF A STRUCTURE UNDER SUCH CONDITIONS SHALL NOT BE SUBMITTED AS AN OVER-THE-COUNTER SUBMITTAL. IF THE SETBACK LIMITS ARE SMALLER THAN THE DSC REQUIRES, A SITE-SPECIFIC GEOTECHNICAL REPORT IS REQUIRED.

SLOPED SITE FIGURE — SCALE ¼" = 1'-0" — 8D




RIDGE CAP — SCALE 1½" = 1'-0" — 8H

PRE-CHECK (PC) DOCUMENT
CODE: 2022 C.B.C.
A SEPARATE PROJECT APPLICATION FOR CONSTRUCTION IS REQUIRED.

8K

SCALE ¼" = 1'-0" — 6K

REVISIONS

| NO. | DATE | BY | DESCRIPTION |
|---|---|---|---|
| | | | |
| | | | |
| | | | |
| | | | |

REGISTERED PROFESSIONAL ENGINEER — GERARD HOMER — EXP. 3-31-24 — 52373 — STRUCTURAL — STATE OF CALIFORNIA

PROJECT:
# SINGLE POST WALKWAY COVER
## VALLEY SCHOOL SHELTERS

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT
APP: 02-121474-PC
REVIEWED BY: A
SS ☑ RS ☐ FLS ☐ ACS ☐ CASp ☐
DATE: 9/1/2023

16765 SYPERT SCHOOL RD.
HOLLAND, TX. 76534
Gerard Homer and Associates
STRUCTURAL ENGINEERS
PH.: (559) 734-6575
Email: ghomeres@gmail.com

| DWN BY: | CHKD BY: |
|---|---|
| B.G.H. | G.B.H. |

DATE: 8/30/23

PROJECT NO: 23020.2165

DRAWING TITLE
SECTION
TYPICAL ELEVATION
DETAILS

SHEET NUMBER
**S4**
OF 4 SHEETS

AGENCY APPROVAL:

LODI USD

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

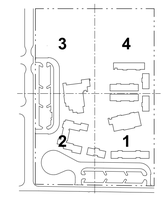
ISSUE

| Δ | DESCRIPTION | DATE |
|---|---|---|

KEYNOTES

NOTES

KEY PLAN




FACILITY:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL**
**2801 W. VINE STREET**
**LODI, CA 95242**

PROJECT:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC. 1**

SHEET NAME:
**SECTION, TYPICAL ELEVATION, DETAILS**

**DSA SUBMITTAL**

DATE: | CLIENT PROJ NO:

SHEET:

**S4**

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IF THIS LINE SHOWN ABOVE IS LESS THAN 1" THEN PLANS ARE SCALED FROM 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

## LIGHTING FIXTURE SCHEDULE

| TAG | TYPE | MANU. | SERIES | MODEL | QTY. | MOUNTING | VOLT. | WATTAGE | SOURCE | LUMENS | CCT | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | OUTDOOR POLE | COOPER | MCGRAW-EDISON | GALN-SA2A-840-U-SWQ | 13 | POLE @25' ABOVE GRADE | 277 | 63.0 | LED | 9625 | 4000K | SEE PLANS FOR QTY OF LIGHT HEADS PER POLE, PROVIDE WITH INTEGRAL PHOTOCELL, BUG RATING: B4-U0-G2 |
| 02 | OUTDOOR POLE | COOPER | MCGRAW-EDISON | GALN-SA4A-840-U-SWQ | 3 | POLE @25' ABOVE GRADE | 277 | 121.0 | LED | 18,974 | 4000K | 1 LIGHT HEAD PER POLE, PROVIDE WITH INTEGRAL PHOTOCELL, BUG RATING: B4-U0-G2 |
| 03 | OUTDOOR POLE | COOPER | MCGRAW-EDISON | GALN-SA1B-840-U-T2BC | 8 | POLE @25' ABOVE GRADE | 277 | 39.0 | LED | 4549 | 4000K | 1 LIGHT HEAD PER POLE, PROVIDE WITH INTEGRAL PHOTOCELL, BUG RATING: N/A |
| 04 | OUTDOOR POST-TOP | COOPER | INVUE | MSA-SA2C-840-U-SWQ | 13 | POST @15' ABOVE GRADE | 277 | 113.0 | LED | 13,233 | 4000K | PROVIDE WITH INTEGRAL PHOTOCELL, BUG RATING: B4-U0-G2 |

NOTES: COORDINATE ALL ARCHITECTURAL TRIM AND ACCESSORY OPTIONS WITH OWNER
EQUIVALENT FIXTURES ACCEPTABLE CONTINGENT ON OWNER APPROVAL

## EQUIPMENT SCHEDULE

| TAG | TYPE | MANU. | MODEL | SERVES | RATINGS | DIMENSIONS (L"xW"xH") | WEIGHT (LBS) | REMARKS |
|---|---|---|---|---|---|---|---|---|
| TX-LS | TRANSFORMER | SQUARE D | EX225T3H | PANEL LS | 225KVA, 480V -> 208Y/120V, NEMA 3R | 40"x33"x58" | 1450 | COMPLETELY ENCLOSED EXCEPT FOR VENTILATION OPENINGS, CLASS 220 INSULATION, PROVIDE WEATHERSHIELD AND FLOOR MOUNTING BRACKETS, MEETS THE EXCEPTION FOR CEC 450.21, SEE DETAIL 9/E1.31.1 |
| MSB | MAIN SWITCHBOARD | SQUARE D | QED-2 | SITE | NEMA 3R | 120"x39"x92" | 2687 | CONTACT JAKE WIFFLER AT EDGES ELECTRICAL GROUP - SACPOWER@EDGESGROUP.COM, SEE DETAIL 4/E1.31.1 |

## ELECTRICAL LEGEND

| | |
|---|---|
| | 2X4 LIGHT FIXTURE (SURFACE, RECESSED) |
| | 2X2 LIGHT FIXTURE (SURFACE, RECESSED) |
| | FIXTURE W/ BATTERY BACKUP (TYP. ALL WALKED 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 |

**AGENCY APPROVAL:**

LODI USD


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SACRAMENTO, CA, 95816
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**KEYNOTES**

**NOTES**


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REGISTERED PROFESSIONAL ENGINEER ALEXANDRE M. BATTISTA No.E23735 EXP. 12-31-2027 STATE OF CALIFORNIA

FACILITY:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL**
**2801 W VINE ST,**
**LODI, CA 95242**

PROJECT:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1**

SHEET NAME:
**ELECTRICAL SCHEDULES & GENERAL NOTES**

**DSA SUBMITTAL**

DATE: **2025.12.09** CLIENT PROJ NO:

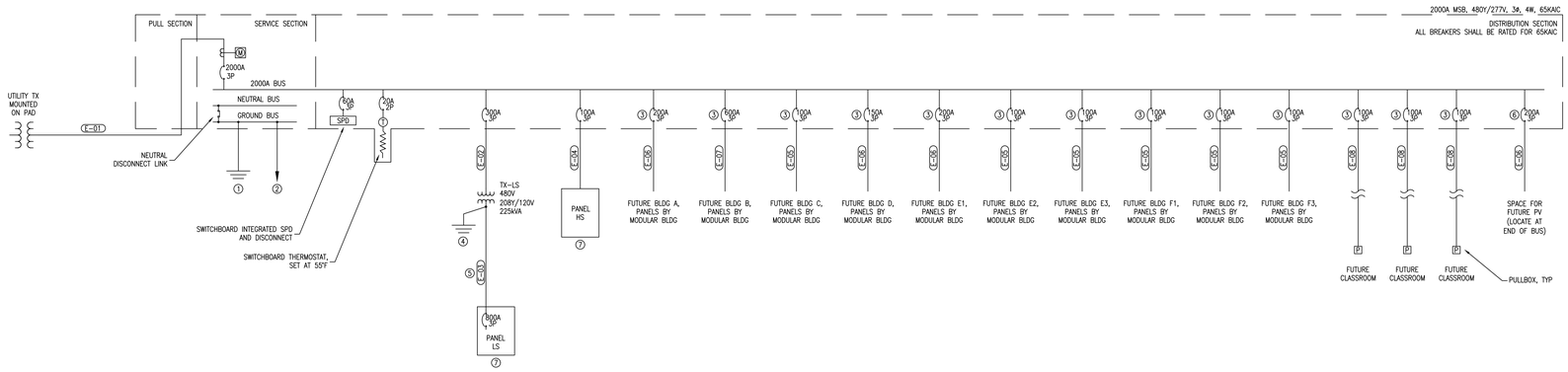
SHEET:

**E1.11.1**

PLEASE RECYCLE

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ANSI D SHEETS ORIGINAL IMAGE SIZE

# ONE-LINE DIAGRAM




## FEEDER SCHEDULE

| TAG | # OF SETS | CONDUIT (PER SET) | CONDUCTORS (PER SET) | | REMARKS |
|---|---|---|---|---|---|
| | | | PHASE/NEUTRAL | GROUND | |
| E-01 | 5 | 4"ø | (4) 600 KCMIL CU | – | – |
| E-02 | 1 | 3"ø | (3) 350 KCMIL CU | (1) #4 AWG CU | – |
| E-03 | 2 | 4"ø | (4) #600 KCMIL CU | (1) #4 AWG CU SSBJ | – |
| E-04 | 1 | 1-1/4"ø | (4) #3 AWG CU | (1) #8 AWG CU | – |
| E-05 | 1 | 2"ø | – | – | – |
| E-06 | 1 | 3"ø | – | – | – |
| E-07 | 2 | 3"ø | – | – | – |
| E-08 | 1 | 2"ø | – | – | CONDUIT RUN TO PULLBOX AT NORTH END OF CAMPUS FOR FUTURE BUILDINGS |

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
3. BREAKER SIZE TO BE COORDINATED WITH MODULAR BLDG DESIGNER
4. GROUND ELECTRODE SYSTEM: PROVIDE GROUND ELECTRODE PER CEC 250.52(A), AND CONNECT TO TRANSFORMER WITH MINIMUM #4 AWG CU GEC AND PROVIDE #4 AWG CU SBJ PER CEC 250.30
5. SECONDARY CONDUCTORS MAX LENGTH SHALL BE 25' PER CEC 240.21(C)(6)
6. BREAKER SIZE TO BE COORDINATED WITH PV SYSTEM DESIGNER
7. ENSURE THAT PANEL HAS THE ABILITY TO ACCEPT BCPM FOR INDIVIDUAL CIRCUIT MONITOR OR PROVIDE ALTERNATIVE ACCEPTABLE METHOD THAT COMPLIES WITH CENC 130.5(b)

PLEASE RECYCLE

**AGENCY APPROVAL:**

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REGISTERED PROFESSIONAL ENGINEER
ALEXANDRE M. BATTISTA
No.E23735
EXP. 12-31-2027
ELECTRICAL
STATE OF CALIFORNIA

FACILITY:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL**
**2801 W VINE ST,**
**LODI, CA 95242**

PROJECT:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1**

SHEET NAME:
**ONE-LINE DIAGRAM**

**DSA SUBMITTAL**

DATE: **2025.12.09** | CLIENT PROJ NO:

SHEET:

**E1.12.1**

THE LINE BROWN ABOVE IS EXACTLY 1" WHEN PRINTED ON 24X36 SHEETS ORIGINAL IMAGE SIZE

## PANEL 'HS' SCHEDULE

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Panel Name: | HS | | | | Bus Rating: | 100A | | | | | |
| Voltage & Phase: | 480Y/277 - 3ϕ - 4W | | | | AIC Rating: | 50kAIC | | | | | |
| Mounting: | Free-Standing | | | | Main Type: | Circuit Breaker | | | | | |
| Enclosure Rating: | NEMA 3R | | | | MCB Rating: | 100A | | | | | |
| Code | VA | Description | BRK | Ckt | PHASE | Ckt | BRK | Description | VA | Code | |
| L | 1131 | Perimeter/Parking Lights | 20/1 | 1 | A | 2 | 40/3 | Irrigation Pump Controller | 3723 | O | |
| L | 1953 | Interior Post Lights | 20/1 | 3 | B | 4 | - | | 3723 | O | |
| | | Spare | 20/1 | 5 | C | 6 | - | | 3723 | O | |
| | | Spare | 20/1 | 7 | A | 8 | 20/1 | Spare | | | |
| | | Spare | 20/1 | 9 | B | 10 | 20/1 | Spare | | | |
| | | Space | | 11 | C | 12 | | Space | | | |
| | | Space | | 13 | A | 14 | | Space | | | |
| | | Space | | 15 | B | 16 | | Space | | | |
| | | Space | | 17 | C | 18 | | Space | | | |
| | | Space | | 19 | A | 20 | | Space | | | |
| | | Space | | 21 | B | 22 | | Space | | | |
| | | Space | | 23 | C | 24 | | Space | | | |

| | |
|---|---|
| Largest Motor VA | 11141 |
| Largest Motor Phases: | A,B,C |
| Subfeed Breaker to Panel: | |

| Load Code | VA Load per Phase | | | Calculation | | |
|---|---|---|---|---|---|---|
| | A | B | C | Total VA | Mult. | VA Load |
| R = Recept | 0 | 0 | 0 | 0 | 1.00 | 0 |
| K = Kitchen | 0 | 0 | 0 | 0 | 1.00 | 0 |
| M = Motor | 0 | 0 | 0 | 0 | 1.00 | 0 |
| L = Lighting | 1131 | 1953 | 0 | 3084 | 1.25 | 3855 |
| H = Heat | 0 | 0 | 0 | 0 | 1.25 | 0 |
| PV = Solar | 0 | 0 | 0 | 0 | 1.25 | 0 |
| EV = Elec. Vehicle | 0 | 0 | 0 | 0 | 1.25 | 0 |
| O = Other | 3722.543 | 3722.543 | 3722.543 | 11167.63 | 1.00 | 11168 |
| Load Totals | 4853.543 | 5675.543 | 3722.543 | 14251.63 | 1.05 | 15022.63 |
| VA of Largest Motor | | | | 11141.2 | 0.25 | 2785.3 |
| Subfeed VA Loads | 0.0 | 0.0 | 0.0 | | | |
| Total VA Loads | 6064.7 | 7092.2 | 4651.0 | | | |
| Load Balance | 102.2% | 119.5% | 78.4% | | | |
| | | VA Load This Panel | | | | 17807.9 |
| | | Amperage This Panel Per Largest Phase VA | | | | 25.6 |

Notes:
- Panel AIC rating based on wire size and length

## PANEL 'LS' SCHEDULE

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Panel Name: | LS | | | | Bus Rating: | 800A | | | | | |
| Voltage & Phase: | 208Y/120 - 3ϕ - 4W | | | | AIC Rating: | 22kAIC | | | | | |
| Mounting: | Free-Standing | | | | Main Type: | Circuit Breaker | | | | | |
| Enclosure Rating: | NEMA 3R | | | | MCB Rating: | 800A | | | | | |
| Code | VA | Description | BRK | Ckt | PHASE | Ckt | BRK | Description | VA | Code | |
| EV | 4992 | EV Capable #1 | 60/2 | 1 | A | 2 | 60/2 | EV Capable #11 | 4992 | EV | |
| EV | 4992 | | - | 3 | B | 4 | - | | 4992 | EV | |
| EV | 4992 | EV Capable #2 | 60/2 | 5 | C | 6 | 60/2 | EV Capable #12 | 4992 | EV | |
| EV | 4992 | | - | 7 | A | 8 | - | | 4992 | EV | |
| EV | 4992 | EV Capable #3 | 60/2 | 9 | B | 10 | 60/2 | EV Capable #13 | 4992 | EV | |
| EV | 4992 | | - | 11 | C | 12 | - | | 4992 | EV | |
| EV | 4992 | EV Capable #4 | 60/2 | 13 | A | 14 | 60/2 | EVCS #1 | 4992 | EV | |
| EV | 4992 | | - | 15 | B | 16 | - | | 4992 | EV | |
| EV | 4992 | EV Capable #5 | 60/2 | 17 | C | 18 | 60/2 | EVCS #2 | 4992 | EV | |
| EV | 4992 | | - | 19 | A | 20 | - | | 4992 | EV | |
| EV | 4992 | EV Capable #6 | 60/2 | 21 | B | 22 | 60/2 | EVCS #3 | 4992 | EV | |
| EV | 4992 | | - | 23 | C | 24 | - | | 4992 | EV | |
| EV | 4992 | EV Capable #7 | 60/2 | 25 | A | 26 | 60/2 | EVCS #4 | 4992 | EV | |
| EV | 4992 | | - | 27 | B | 28 | - | | 4992 | EV | |
| EV | 4992 | EV Capable #8 | 60/2 | 29 | C | 30 | 20/1 | Recept - Service Conv | 180 | R | |
| EV | 4992 | | - | 31 | A | 32 | 20/1 | Irrigation Controller | 100 | O | |
| EV | 4992 | EV Capable #9 | 60/2 | 33 | B | 34 | 20/1 | Irrigation Controller | 100 | O | |
| EV | 4992 | | - | 35 | C | 36 | 20/1 | Spare | | | |
| EV | 4992 | EV Capable #10 | 60/2 | 37 | A | 38 | 20/1 | Space | | | |
| EV | 4992 | | - | 39 | B | 40 | 20/1 | Space | | | |
| | | Spare | 20/1 | 41 | C | 42 | 20/1 | Space | | | |

| | |
|---|---|
| Largest Motor VA | 0 |
| Largest Motor Phases: | A,B,C |
| Subfeed Breaker to Panel: | |

| Load Code | VA Load per Phase | | | Calculation | | |
|---|---|---|---|---|---|---|
| | A | B | C | Total VA | Mult. | VA Load |
| R = Recept | 0 | 0 | 180 | 180 | 1.00 | 180 |
| K = Kitchen | 0 | 0 | 0 | 0 | 1.00 | 0 |
| M = Motor | 0 | 0 | 0 | 0 | 1.00 | 0 |
| L = Lighting | 0 | 0 | 0 | 0 | 1.25 | 0 |
| H = Heat | 0 | 0 | 0 | 0 | 1.25 | 0 |
| PV = Solar | 0 | 0 | 0 | 0 | 1.25 | 0 |
| EV = Elec. Vehicle | 59904 | 59904 | 49920 | 169728 | 1.25 | 212160 |
| O = Other | 100 | 100 | 0 | 200 | 1.00 | 200 |
| Load Totals | 60004 | 60004 | 50100 | 170108 | 1.25 | 212540 |
| VA of Largest Motor | | | | 0 | 0.25 | 0 |
| Subfeed VA Loads | 0.0 | 0.0 | 0.0 | | | |
| Total VA Loads | 74980.0 | 74980.0 | 62580.0 | | | |
| Load Balance | 105.8% | 105.8% | 88.3% | | | |
| | | VA Load This Panel | | | | 212540.0 |
| | | Amperage This Panel Per Largest Phase VA | | | | 624.8 |

Notes:
- Panel AIC rating based on wire size and length

## VOLTAGE DROP SUMMARY

| Voltage Drop Summary | | | | |
|---|---|---|---|---|
| **Total Feeder Voltage Drop** | | **Worst Case Branch Circuit** | | **Worst Case Voltage Drop** |
| MSB-->HS | 0.02% | HS-3 | 1.27% | 1.28% |
| MSB-->TX-LS-->LS | 0.03% | LS-14,16 | 4.04% | 4.06% |

**AGENCY APPROVAL:**

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**2801 W VINE ST,**
**LODI, CA 95242**

PROJECT:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1**

SHEET NAME:
**ELECTRICALPANEL SCHEDULES**

**DSA SUBMITTAL**

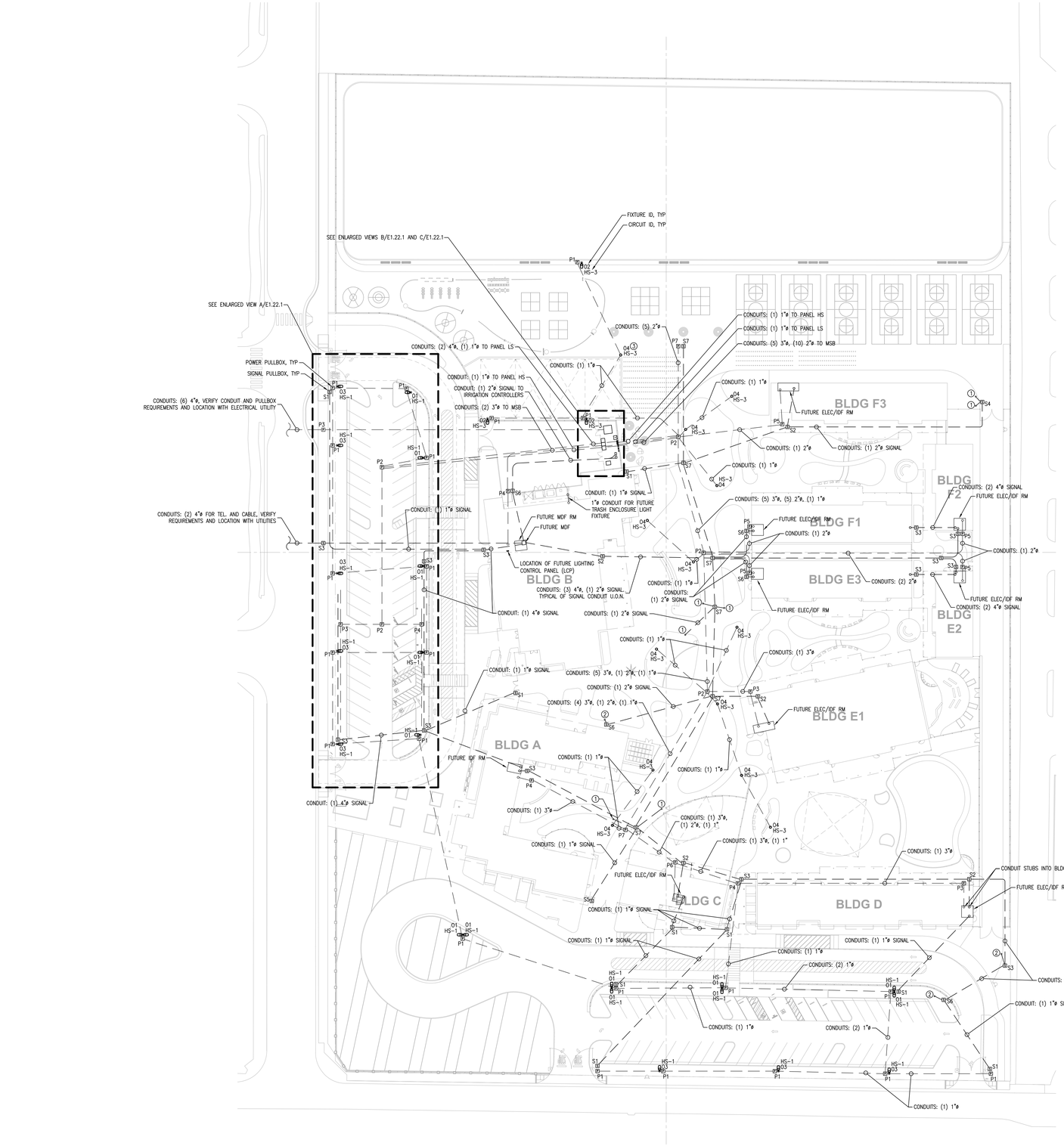
DATE: **2025.12.09** | CLIENT PROJ NO:

SHEET:

**E1.13.1**

PLEASE RECYCLE

THE LINE SHOWN ABOVE IS EXACTLY 3 INCHES LONG ON ANSI D SHEETS ORIGINAL IMAGE SIZE




A ELECTRICAL SITE PLAN - POWER & SIGNAL
SCALE: 1"=40'-0"

NORTH

## UNDERGROUND PULL BOX SCHEDULE

| BOX # | DESIGNATION | CHRISTY PART # | DIMENSIONS | TRAFFIC RATED | NOTES |
|---|---|---|---|---|---|
| P1 | POWER | B09 | 10"x15" | NO | 2, 3 |
| P2 | POWER | B3048 | 30"x48" | YES | 1, 3 |
| P3 | POWER | N40 | 24"x36" | NO | 2, 3 |
| P4 | POWER | B30 | 13"x24" | NO | 2, 3 |
| P5 | POWER | B12 | 12"x18" | NO | 2, 3 |
| P6 | POWER | B30 | 17"x30" | NO | 2, 3 |
| P7 | POWER | B2436 | 24"x36" | YES | 1, 3 |
| S1 | SIGNAL | B09 | 10"x15" | NO | 2, 3 |
| S2 | SIGNAL | N48 | 30"x48" | NO | 2, 3 |
| S3 | SIGNAL | N40 | 24"x36" | NO | 2, 3 |
| S4 | SIGNAL | B1324 | 13"x24" | YES | 1, 3 |
| S5 | SIGNAL | B1017 | 10"x17" | YES | 1, 3 |
| S6 | SIGNAL | B12 | 12"x18" | NO | 2, 3 |
| S7 | SIGNAL | B3048 | 30"x48" | YES | 1, 3 |

NOTES:
1. PROVIDE STEEL CHECKER PLATE COVER
2. PROVIDE CONCRETE COVER
3. PROVIDE BOLT DOWN LOCKING KIT

SHEET NOTES:

1. ALL WIRING TO BE #10 AWG CU AND ALL CONDUIT TO BE 1" U.O.N.
2. ALL UNDERGROUND CONDUIT SHALL BE PVC U.O.N. AND HAVE A MINIMUM BURIAL DEPTH PER CEC TABLE 300.5
3. ALL RECEPTACLES LOCATED OUTSIDE SHALL BE TYPE WEATHER RESISTANT, GFCI WITH EXTRA DUTY IN-USE COVER, PER CEC 210.8 AND 406.9(B)
4. ALL POLE MOUNTED LIGHT FIXTURES TO HAVE CONCRETE POLE BASE, SEE DETAIL 1/E1.32.1
5. ALL POST TOP LIGHT FIXTURES TO BE MOUNTED PER DETAIL 2/E1.32.1, U.O.N.
6. PULL BOXES FOR POWER DISTRIBUTION SHALL BE ENGRAVED "ELECTRIC" ON LID, LOCATIONS ARE DIAGRAMMATIC AND NOT DIMENSIONED. PULLBOXES AT DRIVE AISLE AREAS TO HAVE TRAFFIC-RATED LID COVER
7. PULL BOXES FOR SIGNAL SYSTEMS (FIBER AND FIRE ALARM) SHALL BE ENGRAVED "DATA" ON LID. LOCATIONS ARE DIAGRAMMATIC AND NOT DIMENSIONED. PULLBOXES TO HAVE TRAFFIC-RATED LID COVER
8. ENSURE PULL BOXES ARE NOT LOCATED IN EXPANSION JOINTS
9. ALL ITEMS LABELED "FUTURE" ARE NOT PART OF THIS APPLICATION

KEY NOTES:

1. 2"ø CONDUIT FOR FIRE ALARM TO POST INDICATOR VALVE AND CHECK VALVE
2. 2"ø CONDUIT FOR FIRE ALARM TO POST INDICATOR VALVE
3. PROVIDE POLE BASE FOR FIXTURE PER DETAIL 1/E1.32.1

**AGENCY APPROVAL:**

LODI USD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| Δ | DESCRIPTION | DATE |
|---|---|---|

**KEYNOTES**

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REGISTERED PROFESSIONAL ENGINEER
ALEXANDRE M. BATTISTA
No.E23735
EXP. 12-31-2027
STATE OF CALIFORNIA

FACILITY:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL**
**2801 W VINE ST,**
**LODI, CA 95242**

PROJECT:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1**

SHEET NAME:
**ELECTRICAL SITE PLAN**
**POWER & SIGNAL**

**DSA SUBMITTAL**

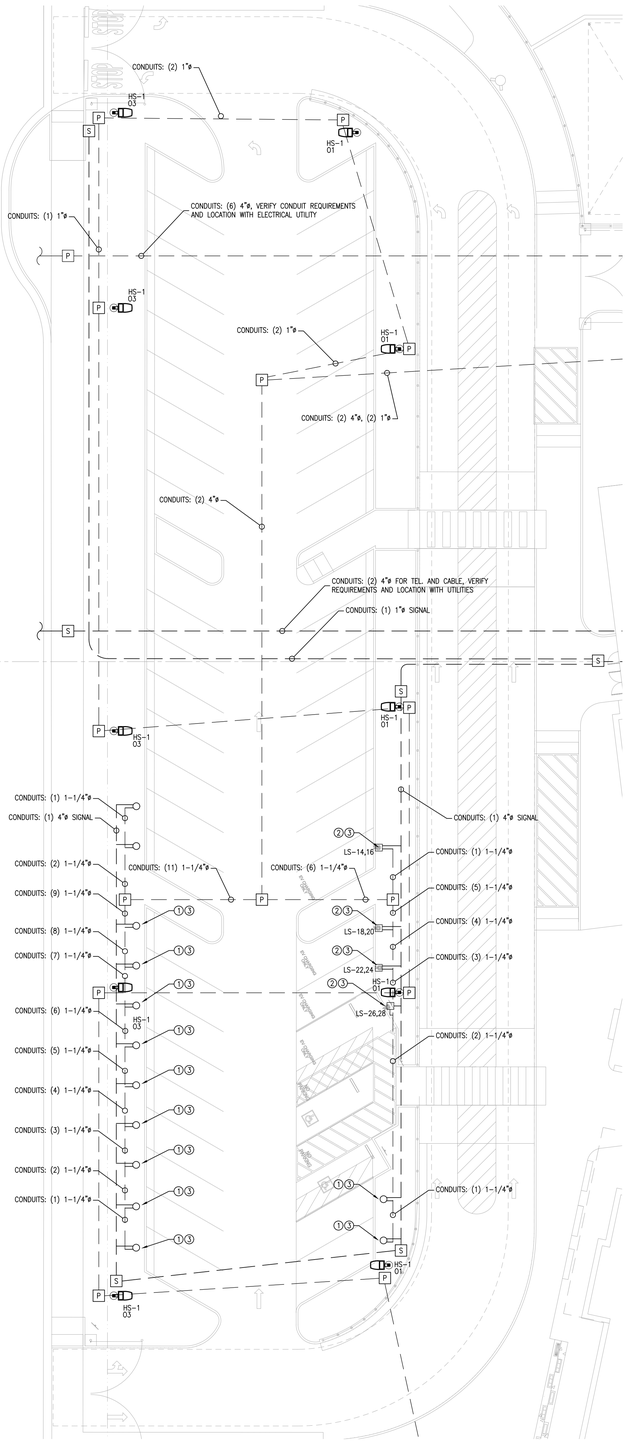
DATE: **2025.12.09** | CLIENT PROJ NO:

SHEET:

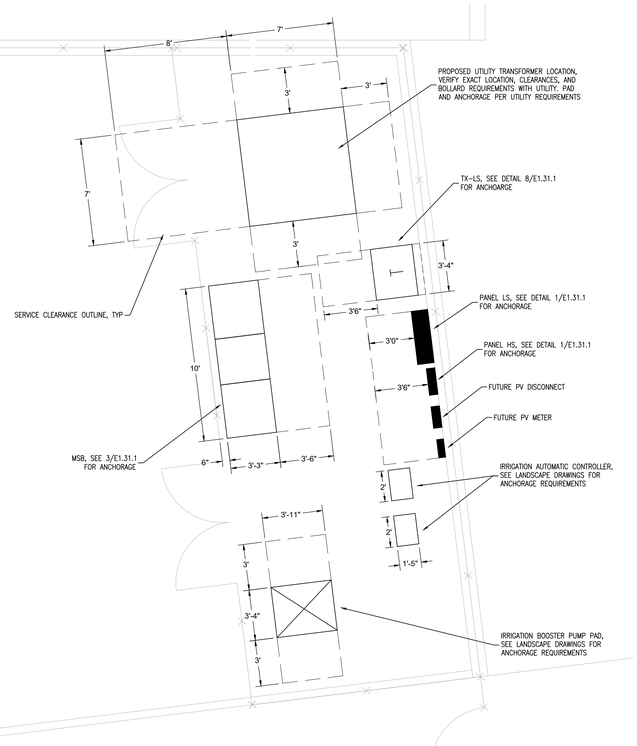
**E1.21.1**

PLEASE RECYCLE

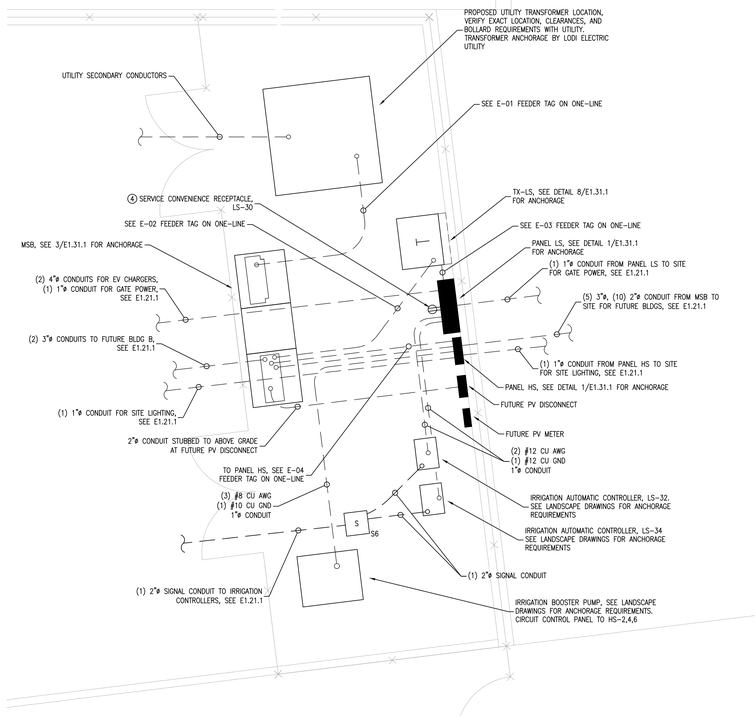
THE LINE BROWN ABOVE IS EXACTLY 3" LONG ON ALL PLANS SHEETS ORIGINAL IMAGE SIZE



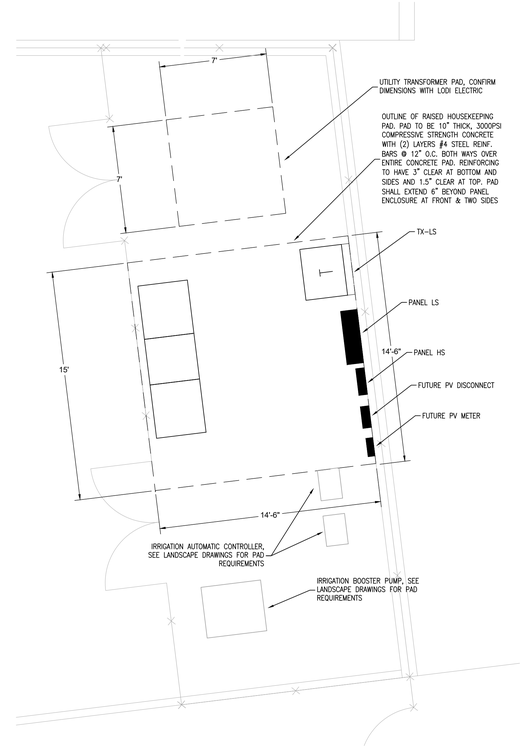

A ENLARGED WEST PARKING
SCALE: 1/16"=1'-0"




B ENLARGED UTILITY YARD - DIMENSIONED
SCALE: 1/4"=1'-0"




C ENLARGED UTILITY YARD - POWER
SCALE: 1/4"=1'-0"




D ENLARGED UTILITY YARD - PAD OUTLINE
SCALE: 1/4"=1'-0"

NORTH

PLEASE RECYCLE

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REGISTERED PROFESSIONAL ENGINEER ALEXANDRE M. BATTISTA No.E23735 EXP 12-31-2027 STATE OF CALIFORNIA

SHEET NOTES:

1. ALL WIRING TO BE #10 AWG CU AND ALL CONDUIT TO BE 1" U.O.N.
2. ALL UNDERGROUND CONDUIT SHALL BE PVC U.O.N. AND HAVE A MINIMUM BURIAL DEPTH PER CEC TABLE 300.5
3. ALL RECEPTACLES LOCATED OUTSIDE SHALL BE TYPE WEATHER RESISTANT, GFCI WITH EXTRA DUTY IN-USE COVER, PER CEC 210.8 AND 406.9(B)

KEY NOTES:

1. INSTALL 12" ROUND CHRISTY BOX WITH CONDUIT STUBBED (PROVIDE WITH PULL STRING) FOR FUTURE EV CHARGER AND LABEL AS "EV CAPABLE"
2. EV CHARGER, CIRCUIT AS SHOWN. SEE 3/E1.32.1 FOR ANCHORAGE. PROVIDE THE FOLLOWING FEEDER TO EACH: (2) #2 CU THWN-2 (1) #4 CU GND 1-1/4"ø CONDUIT
3. 1"ø CONDUIT: DATA TO EV CHARGER
4. WEATHER RESISTANT, GFCI RECEPTACLE MOUNTED ON PANEL LS UNISTRUT SUPPORT

FACILITY:
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**2801 W VINE ST,**
**LODI, CA 95242**

PROJECT:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1**

SHEET NAME:
**ELECTRICAL SITE PLAN**
**POWER & SIGNAL**
**ENLARGED**

**DSA SUBMITTAL**

DATE: **2025.12.09** CLIENT PROJ NO:

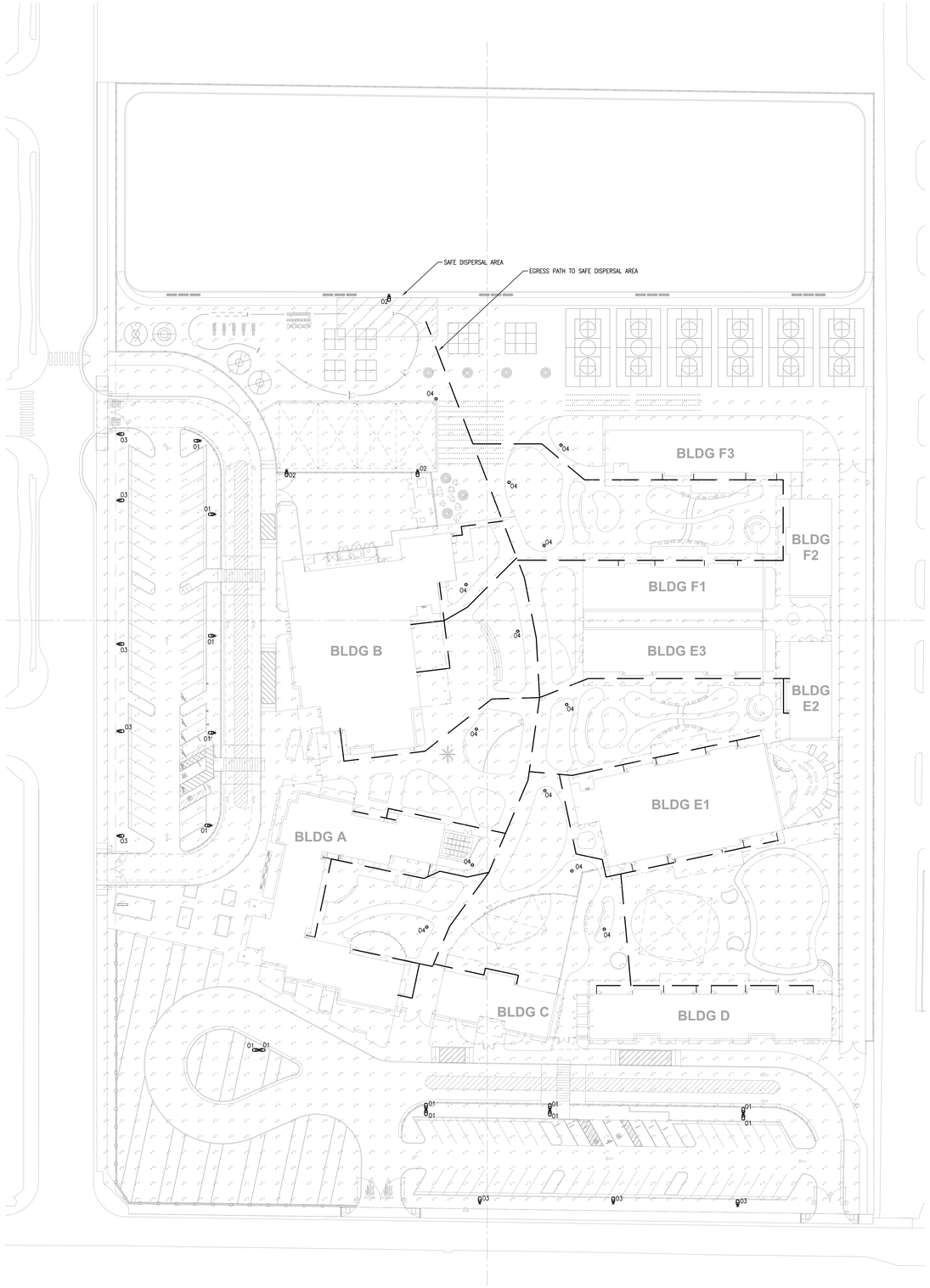
SHEET:

# E1.22.1

THE LINE BROWN ABOVE IS EXACTLY ONE INCH LONG ON FULL SHEETS ORIGINAL IMAGE SIZE

SHEET NOTES:

1. ALL EXTERIOR LIGHT FIXTURES TO BE CONTROLLED BY INTEGRAL PHOTOCONTROL
2. ALL EXTERIOR LIGHT FIXTURES SHALL HAVE AUTOMATIC SCHEDULE CONTROL VIA FUTURE LCP INSTALLED AS PART OF INCREMENT 2




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

NORTH

AGENCY APPROVAL:

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REGISTERED PROFESSIONAL ENGINEER
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EXP.12-31-2027
ELECTRICAL
STATE OF CALIFORNIA

FACILITY:
SAMUEL M. GANTNER ELEMENTARY SCHOOL
2801 W VINE ST,
LODI, CA 95242

PROJECT:
SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1

SHEET NAME:
ELECTRICAL SITE PLAN
LIGHTING

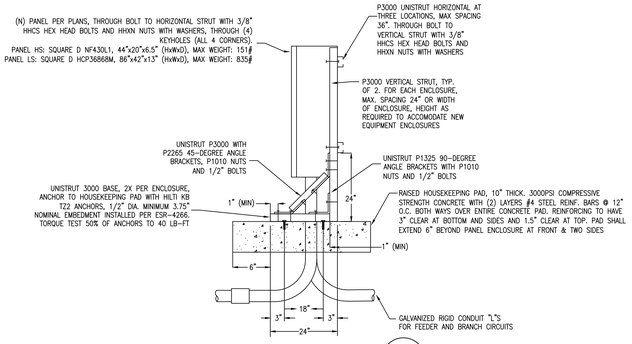
DSA SUBMITTAL

DATE: 2025.12.09
CLIENT PROJ NO:

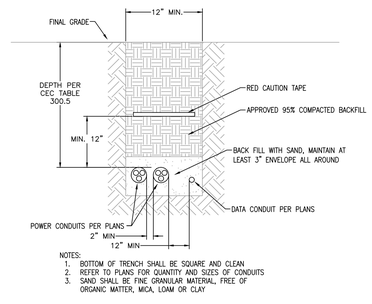
SHEET:
E1.23.1

PLEASE RECYCLE

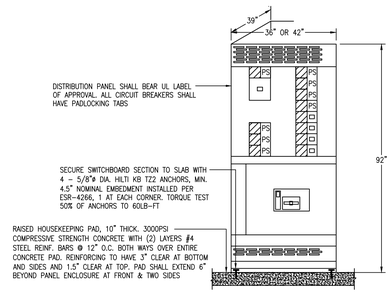
THE LINE BROKEN ABOVE IS EXACTLY 1" WHEN PLOTTED ON ANSI SHEETS ORIGINAL IMAGE SIZE



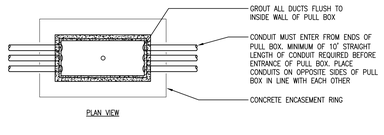

PEDESTAL MOUNTED EQUIPMENT — 1 / E1.31.1



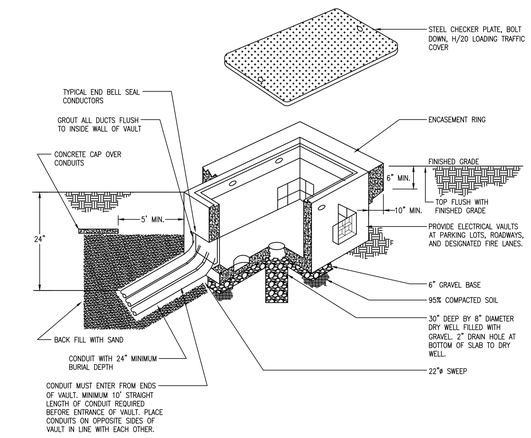

UNDERGROUND TRENCH DETAIL — 2 / E1.31.1



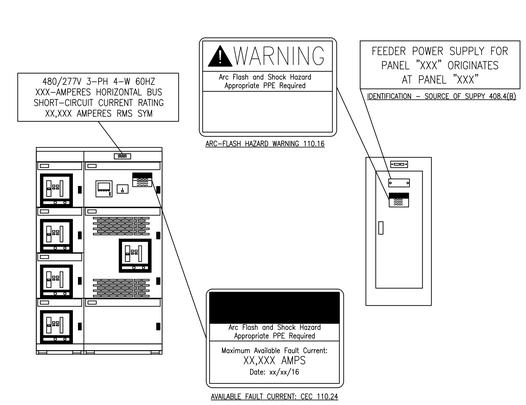

DISTRIBUTION PANEL MOUNTING DETAIL — 3 / E1.31.1



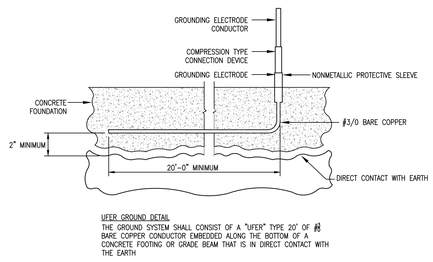

PULL BOX DETAIL — 4 / E1.31.1



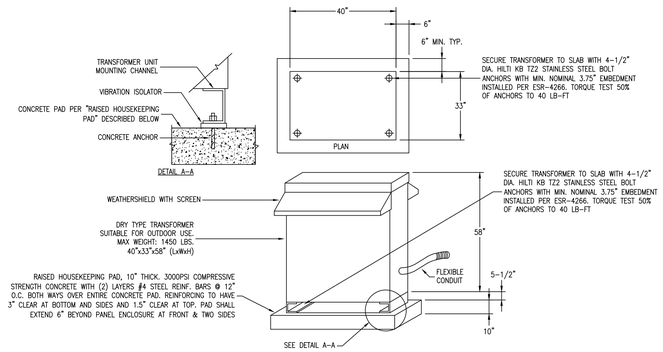

ELECTRICAL VAULT AT TRAFFIC LOCATION — 5 / E1.31.1




SERVICE EQUIPMENT & BRANCH CIRCUIT PANEL MARKING — 6 / E1.31.1




UFER GROUND DETAIL — 7 / E1.31.1




EXTERIOR TRANSFORMER MOUNTING DETAIL — 8 / E1.31.1

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REGISTERED PROFESSIONAL ENGINEER ALEXANDRE M. BATTISTA No.E23735 EXP.12-31-2027 STATE OF CALIFORNIA

FACILITY:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL**
**2801 W VINE ST,**
**LODI, CA 95242**

PROJECT:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1**

SHEET NAME:
**ELECTRICAL DETAILS**

**DSA SUBMITTAL**

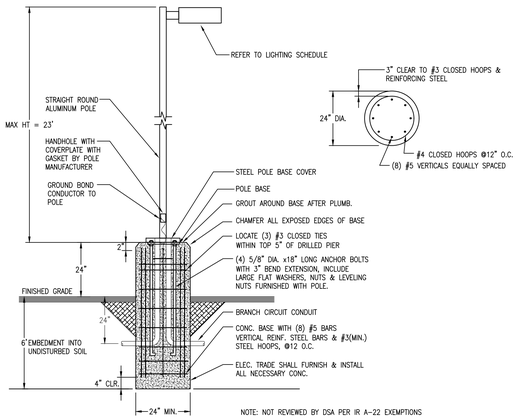
DATE: **2025.12.09** CLIENT PROJ NO:

SHEET:

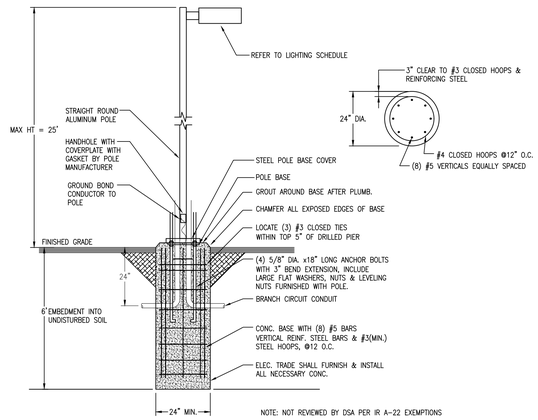
**E1.31.1**

PLEASE RECYCLE

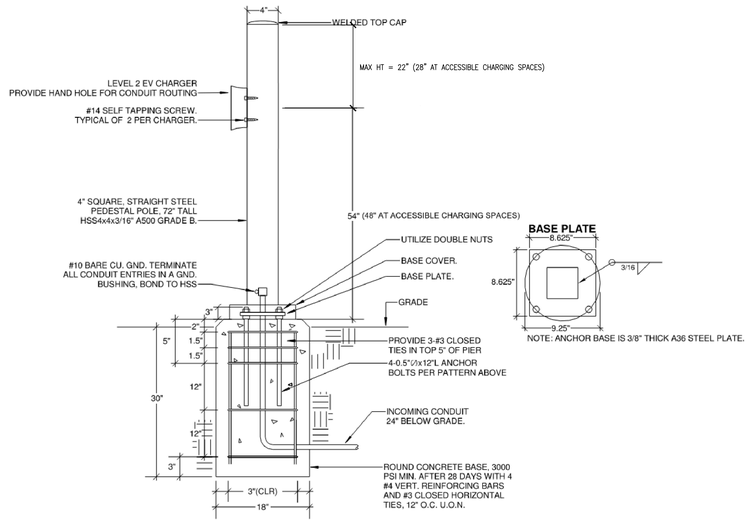
THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ANSI SHEETS ORIGINAL IMAGE SIZE




POLE-BASE MOUNTING DETAIL — 1 / E1.32.1




POLE MOUNTING DETAIL — 2 / E1.32.1




NOTES:

EV CHARGING STATIONS SHALL BE PER DISTRICT STANDARDS. COORDINATE REQUIREMENTS (OPTIONS, ACCESSORIES, SPECIAL CONFIGURATIONS) WITH OWNER PRIOR TO RELEASE. PROVIDE LEVEL 2 CHARGERS, AND 6-FOOT EVSE PEDESTAL. AT DUAL CONFIGURATION, PROVIDE TWO CHARGERS, AND HCS PEDESTAL DUAL MOUNT KIT.

SPECIAL INSPECTION OF PIERS IN COMPLIANCE WITH CBC SECTION 1705A.8 IS NOT REQUIRED.

NOT REVIEWED BY DSA PER IR A-22 EXEMPTIONS

EV CHARGER MOUNTING DETAIL — 3 / E1.32.1

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## NOTES

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EXP 12-31-2027
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**2801 W VINE ST,**
**LODI, CA 95242**

PROJECT:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1**

SHEET NAME:
**ELECTRICAL DETAILS**

**DSA SUBMITTAL**

DATE: **2025.12.09** CLIENT PROJ NO:

SHEET:

# E1.32.1

PLEASE RECYCLE

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH LONG ON ANSI SHEETS ORIGINAL SHEET SIZE

STATE OF CALIFORNIA
## Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | NRCC-ELC-E |
|---|---|
| *This document is used to demonstrate compliance with mandatory requirements in 130.5, for electrical systems in newly constructed nonresidential and hotel/motel occupancies and 160.6 and 160.9 for electrical systems in newly constructed multifamily occupancies. Additions and alterations to electrical service systems in nonresidential and hotel/motel occupancies will also use this document to demonstrate compliance per 141.0(a) or 141.0(b)2P for alterations. For multifamily addition or alterations compliance will be documented per 180.1(a) or 180.2 (b)4Bvii* | |
| **Project Name:** Samuel M. Gantner Elementary School | **Report Page:** (Page 1 of 6) |
| **Project Address:** 2801 W Vine St | **Date Prepared:** 12/3/2025 |

**A. GENERAL INFORMATION**

| | | | | | |
|---|---|---|---|---|---|
| 01 | Project Location (city) | Lodi | 02 | Climate Zone | 12 |
| | | | 03 | Occupancy Types Within Project: | |

**B. PROJECT SCOPE**

*This table includes electrical systems that are within the scope of the permit application.*

| 01 | 02 | 03 | 04 | 05 | 06 | 07 |
|---|---|---|---|---|---|---|
| Electrical Service Designation/ Description | Scope of Work[3] | Rating[2] (kVA) | Utility Provided Metering System Exception to 130.5(a)/ 160.6(a)[3] | System subject to CA Elec Code Article 517 Exception to 130.5(a)and (b) | Demand Response Controls | Provides power to dwelling units/common living areas only in multifamily occupancy |
| New Service | New electrical service equipment and meter | 1661 | ☐ | ☐ | Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal, Sections 120.2/ 160.3, 130.1/ 160.5, and 130.3/ 160.5, and mechanical, indoor lighting, and sign lighting Certificate of Compliance documents will indicate when demand response controls are required. | ☐ |

*[1] FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c)/160.6(c), no other requirements from 130.5/160.6 are required.*
*[2] If common use areas in a multifamily are submetered, rating is for submeter size serving common use areas.*
*[3] Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.*



STATE OF CALIFORNIA
## Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

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| | **Date Prepared:** 12/3/2025 |

**C. COMPLIANCE RESULTS**

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

| 01 | | 02 | | 03 | | 04 | 05 | 06 |
|---|---|---|---|---|---|---|---|---|
| Service Electrical Metering 130.5(a)/ 160.6(a) (See Table F) | AND | Separation for Monitoring 130.5(b)/ 160.6(b) (See Table G) | AND | Voltage Drop 130.5(c)/ 160.6(c) (See Table H) | AND | Controlled Receptacles 130.5(d)/ 160.6(d) (See Table I) | Electric Ready 160.9 (See Table J) | **Compliance Results** |
| Yes | AND | Yes | AND | Yes | AND | | | COMPLIES |

**D. EXCEPTIONAL CONDITIONS**

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

**E. ADDITIONAL REMARKS**

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

**F. SERVICE ELECTRICAL METERING**

*This table includes new or replacement electrical service systems OR equipment to demonstrate compliance with 130.5(a) / 160.6(a). For multifamily occupancies, submetered systems that provide power to common use areas must meet the following metering requirements. Submetered systems providing power to dwelling units do not.*

| 01 | 02 | 03 | | | | 04 | 05 | |
|---|---|---|---|---|---|---|---|---|
| Electrical Service Designation/ Description | Rating[1] (kVA) | Required Metering Capabilities per Table 130.5-A | | | | Location of Requirements in Construction Documents | Field Inspector | |
| | | Instantaneous Demand (kW) | Historical Peak Demand (kW) | Tracking kWh for user-defined period | kWh per rate period | | Pass | Fail |
| New Service | 1661 | ☒ | ☒ | | ☒ | E1.12.1 | ☐ | ☐ |

*[1] FOOTNOTES: If common use areas in a multifamily are submetered, rating is for submeter size serving common use areas.*



STATE OF CALIFORNIA
## Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | NRCC-ELC-E |
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| **Project Name:** Samuel M. Gantner Elementary School | **Report Page:** (Page 3 of 6) |
| | **Date Prepared:** 12/3/2025 |

**G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING**

*This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with 130.5(b)/ 160.6(b). Any load types that are not included in the service do not need to be shown. For multifamily occupancies, submetered systems that provide power to dwelling units do not need to meet these separation requirements and therefore load types on those submetered systems also do not need to be shown.*

| 01 | 02 | 03 | 04 | 05 | |
|---|---|---|---|---|---|
| Load Type per Table 130.5-B[1] | Minimum Required Separation of Load per Table 130.5-B | Compliance Method[2] | Location of Requirements in Construction Documents | Field Inspector | |
| | | | | Pass | Fail |
| **New Service** | | | | | |
| Lighting including exit, egress and exterior | All lighting disaggregated by floor, type or area | Method 3: Branch circuits serve load types individually & provisions for adding future branch curcuit monitoring | E1.12.1 | ☐ | ☐ |
| Plug Loads and appliances less than 25kVA | All plug loads separated by floor, type or area Groups of plug loads exceeding 25 kVA connected load in an area less than 5000 sf | Method 3: Branch circuits serve load types individually & provisions for adding future branch curcuit monitoring | E1.12.1 | ☐ | ☐ |
| Charging stations for electrical vehicle | All loads in aggregate | Method 3: Branch circuits serve load types individually & provisions for adding future branch curcuit monitoring | E1.21.1 | ☐ | ☐ |



STATE OF CALIFORNIA
## Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | NRCC-ELC-E |
|---|---|
| **Project Name:** Samuel M. Gantner Elementary School | **Report Page:** (Page 4 of 6) |
| | **Date Prepared:** 12/3/2025 |

**G. SEPARATION OF ELECTRICAL CIRCUITS FOR ENERGY MONITORING**

*This table includes entirely new or complete replacement electrical power distribution systems to demonstrate compliance with 130.5(b)/ 160.6(b). Any load types that are not included in the service do not need to be shown. For multifamily occupancies, submetered systems that provide power to dwelling units do not need to meet these separation requirements and therefore load types on those submetered systems also do not need to be shown.*

| 01 | 02 | 03 | 04 | 05 | |
|---|---|---|---|---|---|
| Load Type per Table 130.5-B[1] | Minimum Required Separation of Load per Table 130.5-B | Compliance Method[2] | Location of Requirements in Construction Documents | Field Inspector | |
| | | | | Pass | Fail |

** NOTES: If "Other**" is selected under Compliance Method above, please indicate how compliance has been achieved in the space provided below.*

*[1] FOOTNOTES: For each separate load type, up to 10% of the connected load may be of any type.*
*[2] Method 1: Switchboards/ motor control centers/ panelboard loads disaggregated for each load type.*
*Method 2: Switchboards/ motor control centers/ panelboard supply other distribution equipment with loads disaggregated for each load type.*
*Method 3: Branch circuits serve load types individually and provisions for adding future branch circuit monitoring.*
*Method 4: Complete metering system measures and reports loads by type.*
*See Chapter 8 of the Nonresidential Compliance Manual for more detail on Compliance Methods.*

**H. VOLTAGE DROP**

*This table includes entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with 130.5(c)/ 160.6(c). For alterations, only the altered circuits must demonstrate compliance per 141.0(b)2Pii/ 180.2(b)4Bviic.*

| 01 | 02 | | | 03 | 04 | 05 | |
|---|---|---|---|---|---|---|---|
| Electrical Service Designation/Description | Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method | | | Location of Voltage Drop Calculations[1] | Sheet Number for Voltage Drop Calculations in Construction Documents | Field Inspector | |
| | | | | | | Pass | Fail |
| New Service | ☒ | Voltage drop less than 5% | ☐ Permitted by CA Elec Code (Exception to 130.5(c))* | In construction documents | E1.13.1 | ☐ | ☐ |

** NOTES: If "Permitted by CA Elec Code **" is selected under Compliance Method above, please indicate where the exception applies in the space provided below.*

*[1] FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".*

**J. ELECTRIC READY BUILDINGS**

*This section does not apply to this project.*



STATE OF CALIFORNIA
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CALIFORNIA ENERGY COMMISSION

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| **Project Name:** Samuel M. Gantner Elementary School | **Report Page:** (Page 5 of 6) |
| | **Date Prepared:** 12/3/2025 |

**K. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION**

*Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online*

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



STATE OF CALIFORNIA
## Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | NRCC-ELC-E |
|---|---|
| **Project Name:** Samuel M. Gantner Elementary School | **Report Page:** (Page 6 of 6) |
| **Project Address:** 2801 W Vine St | **Date Prepared:** 12/3/2025 |

**DOCUMENTATION AUTHOR'S DECLARATION STATEMENT**

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

| | |
|---|---|
| Documentation Author Name: Alex Batista | Documentation Author Signature: |
| Company: Optimized Energy & Facilities Consulting | Signature Date: 2025-12-03 |
| Address: 5734 Lonetree Blvd | CEA/ HERS Certification Identification (if applicable): |
| City/State/Zip: Rocklin CA 95765 | Phone: (916) 626-5518 |

**RESPONSIBLE PERSON'S DECLARATION STATEMENT**

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

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

| | |
|---|---|
| Responsible Designer Name: Alex Batista | Responsible Designer Signature: |
| Company: Optimized Energy & Facilities Consulting, Inc | Date Signed: 2025-12-03 |
| Address: 5734 Lonetree Blvd | License: E23735 |
| City/State/Zip: Rocklin CA 95765 | Phone: 916-626-5518 |



PLEASE RECYCLE

**AGENCY APPROVAL:**

LODI USD

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

**ISSUE**

Δ DESCRIPTION DATE

**KEYNOTES**

**NOTES**

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

REGISTERED PROFESSIONAL ENGINEER
ALEXANDRE M. BATISTA
No.E23735
EXP.12-31-2027
STATE OF CALIFORNIA

FACILITY:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL**
**2801 W VINE ST,**
**LODI, CA 95242**

PROJECT:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1**

SHEET NAME:
**ENERGY COMPLIANCE**

**DSA SUBMITTAL**

DATE: **2025.12.09** CLIENT PROJ NO:

SHEET:

**E1.41.1**

THE LINE SHOWN ABOVE IS EXACTLY 1" LONG ON ANSI B SHEETS ORIGINAL SIZE

STATE OF CALIFORNIA
## Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | | NRCC-LTO-E |
|---|---|---|---|
| *This document is used to demonstrate compliance with requirements in 110.9, 130.0, 130.2, 140.7, and 141.0(b)2I, for outdoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e)6, 180.1(a) and 180.2(b)4Bv for outdoor lighting scopes using the prescriptive path for multifamily and mixed-use occupancies. Multifamily includes dormitory and senior living facilities.* | | | |
| **Project Name:** | Samuel M. Gantner Elementary School | **Report Page:** | **(Page 1 of 7)** |
| **Project Address:** | 2801 W Vine St | **Date Prepared:** | 2/6/2026 |

### A. GENERAL INFORMATION

| | | | | | |
|---|---|---|---|---|---|
| 01 | Project Location (city) | Lodi | 04 | Total Illuminated Hardscape Area (ft²) | 130800 |
| 02 | Climate Zone | 12 | | | |
| 03 | Outdoor Lighting Zone per Title 24 Part 1 10.114 or as designated by Authority Having Jurisdiction (AHJ): | | | | |

☐ LZ-0: Very Low - Undeveloped Parkland ☒ LZ-2: Moderate - Urban Clusters ☐ LZ-4: High - Must be reviewed by CA Energy Commission for Approval
☐ LZ-1: Low - Rural Areas ☐ LZ-3: Moderately High - Urban Areas

05 Occupancy Types within Project

● All Other Occupancies

### B. PROJECT SCOPE

*This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.7 / 170.2(e)6 or 141.0(b)2I, / 180.2(b)4Bv for alterations.*

**My Project Consists of:**

| 01 | 02 |
|---|---|
| ☒ New Lighting System | Must Comply with Allowances from 140.7 / 170.2(e)6 |
| ☐ Altered Lighting System | Is your alteration increasing the connected lighting load (Watts)? ○ Yes ○ No |

| 03 | 04 | 05 |
|---|---|---|
| % of Existing Luminaires Being Altered[1] | Sum Total of Luminaires Being Added or Altered | Calculation Method |
| ☐ < 10% ☐ >= 10% and < 50% ☐ >= 50% | | |

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

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



STATE OF CALIFORNIA
## Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | | NRCC-LTO-E |
|---|---|---|---|
| **Project Name:** | Samuel M. Gantner Elementary School | **Report Page:** | **(Page 2 of 7)** |
| | | **Date Prepared:** | 2/6/2026 |

### C. COMPLIANCE RESULTS

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

| Calculations of Total Allowed Lighting Power (Watts) 140.7 / 170.2(e)6 or 141.0(b)2L / 180.2(b)4Bv | | | | | | | | | | | | Compliance Results | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | | 02 | | 03 | | 04 | | 05 | OR | 06 | = | 07 | ≥ | 08 | 09 |
| General Hardscape Allowance 140.7(d)1 / 170.2(e)6 (See Table I) | + | Per Application 140.7(d)2 / 170.2(e)6 (See Table J) | + | Sales Frontage 140.7(d)2 (See Table K) | + | Ornamental 140.7(d)2 / 170.2(e)6 (See Table L) | + | Per Specific Area 140.7(d)1 / 170.2(e)6 (See Table M) | | Existing Power Allowance 141.0(b)2L / 180.2(b)4Bv (See Table N) | | **Total Allowed** (Watts) | | **Total Actual** (Watts) | **07 must be >= 08** |
| 3,300 | + | --- | + | --- | + | --- | + | --- | OR | --- | = | 3,300 | ≥ | 2,963 | COMPLIES |

| | |
|---|---|
| **Shielding Compliance (See Table G for Details)** | N/A |
| **Controls Compliance (See Table H for Details)** | COMPLIES |

### D. EXCEPTIONAL CONDITIONS

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

### E. ADDITIONAL REMARKS

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



STATE OF CALIFORNIA
## Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | | NRCC-LTO-E |
|---|---|---|---|
| **Project Name:** | Samuel M. Gantner Elementary School | **Report Page:** | **(Page 3 of 7)** |
| | | **Date Prepared:** | 2/6/2026 |

### F. OUTDOOR LIGHTING FIXTURE SCHEDULE

*For new or altered lighting systems demonstrating compliance with 140.7 / 170.2(e)6 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per 141.0(b)2L only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included). Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.*

**Designed Wattage:**

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | |
|---|---|---|---|---|---|---|---|---|---|---|
| Name or Item Tag | Complete Luminaire Description | | Watts per luminaire[1, 2] | How is Wattage determined | Total Number Luminaires[2] | Luminaire Status[3] | Excluded per 140.7(a) / 170.2(e)6A | Design Watts | Cutoff Req. > 6,200 initial lumen output 130.2(b) / 160.5(c)1[4] | Field Inspector |
| | | | | | | | | | | Pass / Fail |
| O1 | O1 | ☐ Linear | 63 | Mfr. Spec | 13 | New | ☐ | 819 | NA: < 6200 lumens | ☐ ☐ |
| O2 | O2 | ☐ Linear | 121 | Mfr. Spec | 3 | New | ☐ | 363 | NA: < 6200 lumens | ☐ ☐ |
| O3 | O3 | ☐ Linear | 39 | Mfr. Spec | 8 | New | ☐ | 312 | NA: < 6200 lumens | ☐ ☐ |
| O4 | O4 | ☐ Linear | 113 | Mfr. Spec | 13 | New | ☐ | 1,469 | NA: < 6200 lumens | ☐ ☐ |
| | | | | | | | **Total Design Watts:** | 2963 | | |

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

[1] *FOOTNOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b)*
[2] *For linear luminaires, wattage should be indicated as W/ft instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.*
[3] *Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.*
[4] *Compliance with mandatory shielding requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by 130.2(b)/ 160.5(c)*



STATE OF CALIFORNIA
## Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | | NRCC-LTO-E |
|---|---|---|---|
| **Project Name:** | Samuel M. Gantner Elementary School | **Report Page:** | **(Page 4 of 7)** |
| | | **Date Prepared:** | 2/6/2026 |

### G. SHIELDING REQUIREMENTS (BUG)

*This section does not apply to this project.*

### H. OUTDOOR LIGHTING CONTROLS

*This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.*
*Outdoor lighting for nonresidential buildings, parking garages and common service areas in multifamily buildings must be documented separately from outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit*

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

| 01 | 02 | 03 | 04 | 05 | |
|---|---|---|---|---|---|
| Area Description | Shut-Off 130.2(c)1 / 160.5(c) | Auto-Schedule 130.2(c)2 / 160.5(c) | Motion Sensor 130.2(c)3 / 160.5(c) | Field Inspector | |
| | | | | Pass | Fail |
| Automotive Hardscape | Photocontrol | Provided | NA: Not permitted by H&LS | ☐ | ☐ |
| Pedestrian Hardscape | Photocontrol | Provided | NA: Not permitted by H&LS | ☐ | ☐ |

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



STATE OF CALIFORNIA
## Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | | NRCC-LTO-E |
|---|---|---|---|
| **Project Name:** | Samuel M. Gantner Elementary School | **Report Page:** | **(Page 5 of 7)** |
| | | **Date Prepared:** | 2/6/2026 |

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

*This table includes areas using allowance calculations per 140.7 / 170.2(e). General Hardscape Allowance is per Table 140.7-A/Table 170.2-R while "Use it or lose it" Allowances are per Table 140.7-B /Table 170.2-S. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.*
*Outdoor lighting attached to multifamily buildings and controlled from the inside of a dwelling unit are included in Table H. and are not included here. All other multifamily outdoor lighting is included here.*

| | 01 | | | | |
|---|---|---|---|---|---|
| | "Use it or lose it" Allowance (select all that apply) (select all that apply) | | | | |
| ☒ General Hardscape Allowance Table I (below) | ☐ Per Application Table J | ☐ Sales Frontage Table K | ☐ Ornamental Table L | ☐ Per Specific Area Table M | |

Calculated General Hardscape Lighting Power Allowance per Table 140.7-A for Nonresidential & Hotel/Motel

| 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 |
|---|---|---|---|---|---|---|---|
| Area Description | Area Wattage Allowance (AWA) | | | Linear Wattage Allowance (LWA) | | | Total General AWA + LWA (Watts) |
| | Illuminated Area (ft²) | Allowed Density (W/ft²) | Area Allowance (Watts) | Perimeter Length (lf) | Allowed Density (W/lf) | Linear Allowance (Watts) | |
| Automotive Hardscape | 82800 | 0.019 | 1573.2 | 2300 | 0.2 | 345 | 1918 |
| Pedestrian Hardscape | 48000 | 0.019 | 912 | 1800 | 0.2 | 270 | 1182 |
| | | | | | **Initial Wattage Allowance for Entire Site (Watts):** | | 200 |
| | | | | | **Instances of Initial Wattage Allowance (LZ 0 only)[1]** | | |
| | | | | | **Total General Hardscape Allowance (Watts):** | | 3300 |

### J. LIGHTING ALLOWANCE: PER APPLICATION

*This section does not apply to this project.*

### K. LIGHTING ALLOWANCE: SALES FRONTAGE

*This section does not apply to this project.*

### L. LIGHTING ALLOWANCE: ORNAMENTAL

*This section does not apply to this project.*



STATE OF CALIFORNIA
## Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | | NRCC-LTO-E |
|---|---|---|---|
| **Project Name:** | Samuel M. Gantner Elementary School | **Report Page:** | **(Page 6 of 7)** |
| | | **Date Prepared:** | 2/6/2026 |

### M. LIGHTING ALLOWANCE: PER SPECIFIC AREA

*This section does not apply to this project.*

### N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)

*This section does not apply to this project.*

### O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

*Selections have been made based on information provided in this document. If any selection has been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online*

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

### P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

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

| Form/Title | Systems/Spaces To Be Field Verified |
|---|---|
| NRCA-LTO-02-A - Must be submitted for all outdoor lighting controls except for alterations where controls are added to <= 20 luminaires. | Automotive Hardscape; Pedestrian Hardscape; |



STATE OF CALIFORNIA
## Outdoor Lighting
CALIFORNIA ENERGY COMMISSION

| CERTIFICATE OF COMPLIANCE | | | NRCC-LTO-E |
|---|---|---|---|
| **Project Name:** | Samuel M. Gantner Elementary School | **Report Page:** | **(Page 7 of 7)** |
| **Project Address:** | 2801 W Vine St | **Date Prepared:** | 2/6/2026 |

### DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

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

| | |
|---|---|
| Documentation Author Name: Alex Batista | Documentation Author Signature: Alex Batista |
| Company: Optimized Energy & Facilities Consulting | Signature Date: 2026-02-06 |
| Address: 5734 Lonetree Blvd | CEA/ HERS Certification Identification (if applicable): |
| City/State/Zip: Rocklin CA 95765 | Phone: (916) 626-5518 |

### RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
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| | |
|---|---|
| Responsible Designer Name: Alex Batista | Responsible Designer Signature: Alex Batista |
| Company: Optimized Energy & Facilities Consulting, Inc | Date Signed: 2026-02-06 |
| Address: 5734 Lonetree Blvd | License: E23735 |
| City/State/Zip: Rocklin CA 95765 | Phone: 916-626-5518 |



**AGENCY APPROVAL:**

LODI USD


HMC Architects
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**ISSUE**

Δ DESCRIPTION DATE

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**NOTES**


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


REGISTERED PROFESSIONAL ENGINEER ALEXANDRE M. BATISTA No.E23735 EXP 12-31-2027 STATE OF CALIFORNIA

FACILITY:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL**
**2801 W VINE ST,**
**LODI, CA 95242**

PROJECT:
**SAMUEL M. GANTNER ELEMENTARY SCHOOL - INC 1**

SHEET NAME:
**ENERGY COMPLIANCE**

**DSA SUBMITTAL**

DATE: **2025.12.09** CLIENT PROJ NO:

SHEET:

**E1.42.1**

PLEASE RECYCLE