MARK TWAIN ELEMENTARY SCHOOL

SACRAMENTO, CALIFORNIA

PROJECT CONTACTS

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LANDSCAPE ARCHITECT

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STRUCTURAL ENGINEER

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PROJECT DATA

PROJECT ADDRESS: 4914 58TH STREET, SACRAMENTO, CA 95820

PROJECT SCOPE

THIS PROJECT WILL SUPPORT OUTDOOR EDUCATION ON SCHOOL GROUNDS, INCLUDING NATIVE GARDENS, ORCHARDS, VEGETABLE GARDENS, OUTDOOR CLASSROOMS, AND OTHER NATURE BASE OUTDOOR LEARNING SPACES.

- CONSTRUCTION OF NEW OUTDOOR CLASSROOM AND NATURE PLAY AREA .
- DEMOLITION OF SITE HARDSCAPE AND SITE ELEMENTS, SITE GRADING, CONSTRUCTION OF NEW HARDSCAPE, LANDSCAPE, AND ASSOCIATED UTILITIES.
- ACCESSIBILITY UPGRADES TO THE ACCESSIBLE PATH OF TRAVEL.
- ACCESSIBLE PATH OF TRAVEL IMPROVEMENTS REQUIRED BY CALIFORNIA BUILDING CODE PART 2, CHAPTER 11B, SECTION 11B-202.4 TO 20% OF THE ADJUSTED CONSTRUCTION COST OF THE PROJECT, IN ACCORDANCE WITH EDC 17672.
- THE FOLLOWING ACCESSIBLE ELEMENTS ARE NOT INCLUDED IN THE PROJECT PER 11B-202.4 EXCEPTION 8.
  - AT LEAST ONE ACCESSIBLE RESTROOM FROM EACH SEX OR ONE ACCESSIBLE UNISEX (SINGLE-USER OR FAMILY) RESTROOM:
  - ACCESSIBLE TELEPHONES;
  - ACCESSIBLE DRINKING FOUNTAINS; AND
  - WHEN POSSIBLE, ADDITIONAL ACCESSIBLE ELEMENTS SUCH AS SIGNS, STORAGE AND ALARMS.
- THIS SITE IS NOT LOCATED IN A WILDLIFE URBAN INTERFACE AREA.

ADD ALTERNATE #1

PROVIDE ADDITIONAL PLAY ELEMENT IN PLAY AREA AS SHOWN ON PLANS. COSTS SHALL INCLUDE ALL LABOR AND MATERIALS FOR INSTALLATION OF PLAY ELEMENT PER MANUFACTURE'S DETAILS.

- FREENOTES GRIFFIN

ADD ALTERNATE #2

IN LIEU OF DRY-WELL FOR SINK DRAINAGE, PROVIDE ADDITIONAL 4" SANITARY SEWER CONNECTION TO EXISTING SANITARY SEWER SYSTEM, AS INDICATED IN THE UTILITY PLAN C5.0.

- SANITARY SEWER CLEANOUT
- 69 LF OF 4" SANITARY SEWER LINE
- CONNECTION TO EXISTING SANITARY SEWER CLEANOUT
- CONTRACTOR TO FIELD VERIFY DEPTH OF EXISTING SEWER LINE PRIOR TO CONSTRUCTION.

PARTIAL LIST OF APPLICABLE CODES

BUILDING-	2025 CALIFORNIA BUILDING CODE
MECHANICAL-	2025 CALIFORNIA MECHANICAL CODE
PLUMBING-	2025 CALIFORNIA PLUMBING CODE
ELECTRICAL-	2025 CALIFORNIA ELECTRICAL CODE
ACCESSIBILITY-	2025 CALIFORNIA BUILDING CODE, CHAPTER 11B (TITLE 24-DISABLED ACCESS)
ENERGY CODE-	2025 CALIFORNIA ENERGY CODE (TITLE 24)
FIRE/LIFE SAFETY-	2025 CALIFORNIA FIRE CODE FIRE ALARMS: NFPA 72 (2016)

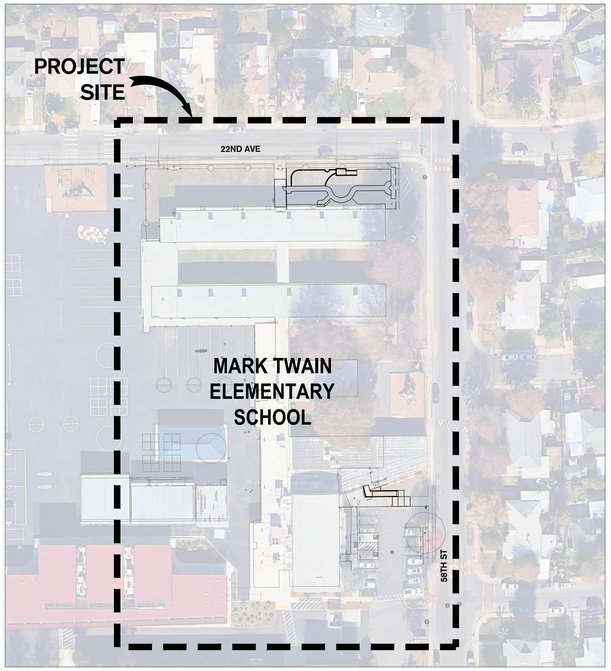
2025 CALIFORNIA GREEN BUILDING STANDARDS CODE

ADDITIONAL CODE

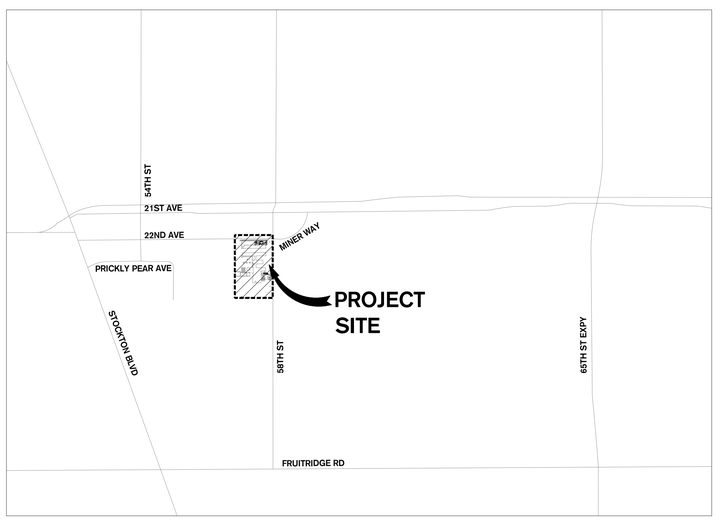
GRADING-	2025 CALIFORNIA BUILDING CODE APPENDIX J-GRADING

DSA PROJECT INSPECTOR

INSPECTOR OF RECORD (IOR), SHALL BE EMPLOYED BY THE OWNER AND APPROVED BY THE DIVISION OF THE STATE ARCHITECT (DSA). DUTIES AND REQUIRED (IOR) CLASSIFICATION PER SECTION 4-342, TITLE 24, PART 1 CCR AND IR A-7: CLASS 2 CERTIFIED BY DSA.



CAMPUS SITE PLAN (PER DSA 3, PART 3, C.1)
SCALE: 1" = 50'



VICINITY MAP
NOT TO SCALE

INDEX OF SHEETS:

SHEET NO.	DESCRIPTION
CS	COVER SHEET
C1.0	GENERAL NOTES & ABBREVIATIONS
C1.1	SITE ACCESSIBILITY PLAN
C2.0	EXISTING CONDITIONS & DEMOLITION PLAN
C3.0	PAVING & SITE AMENITIES PLAN
C4.0	GRADING PLAN
C5.0	UTILITY PLAN
C6.0	EROSION CONTROL PLAN
C7.0	DETAIL
L1.0	IRRIGATION PLAN
L1.1	IRRIGATION CALCULATION
L1.2	HYDROZONE PLAN
L2.0	LANDSCAPE PLAN
L2.1	TREE SHADE CALCULATION PLAN
L3.0	SITE DETAILS
L3.1	IRRIGATION DETAILS
L3.2	LANDSCAPE DETAILS

TOTAL NUMBER OF SHEETS = 17

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

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www.siegfriedeng.com

- CIVIL
- STRUCTURAL
- LANDSCAPE ARCHITECTURE
- SURVEYING
- PLANNING
- ATHLETIC FACILITY DESIGN
- GEOTECHNICAL

REVISIONS

No.	Date	Description

PROJECT

MARK TWAIN ELEMENTARY SCHOOL

4914 58TH STREET
SACRAMENTO, CA
95820
DSA# 02-123992

REGISTERED PROFESSIONAL ENGINEER
PAUL J. SCHNEIDER
No. 62498
Exp./ 09/30/27
CIVIL
STATE OF CALIFORNIA

DATE SIGNED: 01/26/26

SHEET TITLE

COVER SHEET

Proj Mgr	PJS
Drawn by	RRG
Date	01/26/2026
Job No.	25206

Sheet:
CS
1 of: 17

F:\JOBPROJECTS\25206 SACRAMENTO CITY UNIFIED - MARK TWAIN\PLANS AND GRAPHICS\IMPROVEMENT PLANS\25206-CS - COVER SHEET.DWG 1/26/2026 5:35 PM

GENERAL NOTES

1. ALL IMPROVEMENTS WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED IN STRICT ACCORDANCE WITH CITY OF SACRAMENTO STANDARD SPECIFICATIONS AND PLANS, LATEST EDITION, AND ALL AMENDMENTS THERE TO-DATE.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING FROM DAMAGE ALL EXISTING IMPROVEMENTS THAT ARE TO REMAIN. SUCH IMPROVEMENTS THAT ARE DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED AT HIS EXPENSE.
3. ALL TRENCH EXCAVATION SHALL BE IN ACCORDANCE WITH CITY OF SACRAMENTO STANDARD SPECIFICATIONS.
4. EXCAVATION OF 5 FEET OR MORE IN DEPTH WILL REQUIRE AN EXCAVATION PERMIT FROM THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL SAFETY.
5. THE CONTRACTOR SHALL DEMOLISH, EXCAVATE, REMOVE AND DISPOSE OF ALL EXISTING CONCRETE CURB, GUTTER OR SIDEWALK, ASPHALT CONCRETE PAVING, AND DELETERIOUS MATERIAL AS REQUIRED TO CONSTRUCT THE CONTRACT WORK. ALL SUCH EXCESS MATERIAL GENERATED SHALL BE DISPOSED OF FROM THE SITE BY THE CONTRACTOR.
6. THE CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT FOR ANY WORK DONE WITHIN THE CITY RIGHT-OF-WAY FROM THE CITY OF SACRAMENTO BUILDING DEPARTMENT, AND NOTIFY THE CITY 48 HOURS IN ADVANCE OF STARTING ANY WORK TO BE ACCEPTED FOR OWNERSHIP AND MAINTENANCE BY THE CITY OF SACRAMENTO.
7. EXISTING UTILITIES ARE SHOWN AS THEY ARE BELIEVED TO EXIST. THE OWNER AND THE ENGINEER DO NOT ACCEPT RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO COMMENCING ANY WORK, THE CONTRACTOR SHALL HAVE EACH UTILITY COMPANY ACCURATELY LOCATE IN THE FIELD THEIR MAINS AND SERVICE LINES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL EXISTING UTILITIES.
8. ATTENTION IS CALLED TO: SECTION 1540 (A) (1) OF THE CONSTRUCTION SAFETY ORDERS (TITLE 8 CALIFORNIA ADMINISTRATION CODE SECTION 1540), ISSUED BY THE OCCUPATIONAL SAFETY AND HEALTH STANDARDS BOARD PURSUANT TO THE CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ACT OF 1973, AS AMENDED, WHICH STATES:

   "PRIOR TO OPENING AN EXCAVATION, EFFORT SHALL BE MADE TO DETERMINE WHETHER UNDERGROUND INSTALLATION I.E., SEWER, WATER, FUEL, ELECTRIC LINES, ETC., WILL BE ENCOUNTERED AND, IF SO, WHERE SUCH UNDERGROUND INSTALLATIONS ARE LOCATED. WHEN THE EXCAVATION APPROACHES THE APPROXIMATE LOCATION OF SUCH AN 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;"
9. THE CONTRACTOR SHALL CHECK WITH THE UTILITY COMPANIES AND VERIFY ALL UTILITY LOCATIONS. IT SHALL BE CONTRACTOR'S SOLE RESPONSIBILITY TO PROTECT ALL EXISTING UTILITIES SO THAT NO DAMAGE RESULTS TO THEM DURING THE PERFORMANCE OF HIS CONTRACT. THE CONTRACTOR SHALL BE REQUIRED TO COOPERATE WITH OTHER CONTRACTORS AND UTILITY COMPANIES INSTALLING NEW STRUCTURES, UTILITIES AND SERVICES TO THE DEVELOPMENT.
10. WHENEVER EXISTING PAVEMENT IS BROKEN OR CUT DURING THE INSTALLATION OF THE WORK COVERED BY THESE PLANS AND SPECIFICATIONS, THE PAVEMENT SHALL BE REPLACED 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 OWNER.
11. PAYMENT FOR PAVEMENT WILL BE MADE FOR THE AREAS SHOWN ON THE PLANS. REPLACEMENT OF PAVEMENT WHICH IS BROKEN OR CUT IN THE INSTALLATION OF THE IMPROVEMENTS COVERED BY THESE PLANS AND SPECIFICATIONS, AND WHICH LIES OUTSIDE OF SAID AREAS, SHALL BE INCLUDED IN THE STREET CONTRACTOR'S UNIT PRICE FOR PAVEMENT, AND NO ADDITIONAL PAYMENT SHALL BE MADE FOR SUCH WORK.
12. THE CONTRACTOR SHALL EXPOSE EXISTING STORM DRAINS, WATER MAINS, AND SANITARY SEWERS WHERE CONNECTIONS AND CROSSINGS ARE TO BE MADE SO EXISTING FLOWLINES AND LOCATIONS CAN BE VERIFIED BEFORE THE START OF CONSTRUCTION.
13. THE CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND 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.
14. THE CONTRACTOR SHALL OBTAIN A PERMIT FROM THE CITY OF SACRAMENTO AND SACRAMENTO WATER COMPANY FOR USE OF WATER FROM FIRE HYDRANTS FOR CONSTRUCTION PURPOSES. THE PERMIT SHALL BE APPROVED BY THE CITY OF SACRAMENTO WATER ADMINISTRATION.
15. THE PROPERTY OWNERS, DEVELOPERS, AND/OR SUCCESSORS IN INTEREST SHALL COMPLY WITH THE PROVISIONS OF THE CALIFORNIA GENERAL CONSTRUCTION ACTIVITY STORM WATER PERMIT AND STATE WATER RESOURCES CONTROL BOARD.
16. DUST CONTROL SHALL BE PERFORMED AT ALL TIMES, AT THE CONTRACTORS' EXPENSE, TO MINIMIZE ANY DUST NUISANCE AND SHALL BE IN ACCORDANCE WITH SECTION 10 OF CALTRANS STANDARD SPECIFICATIONS.
17. THE CONTRACTOR SHALL FURNISH, INSTALL OPERATE AND MAINTAIN ALL MACHINERY, APPLIANCES AND EQUIPMENT TO MAINTAIN ALL EXCAVATIONS FREE FROM WATER DURING CONSTRUCTION, AND SHALL DEWATER AND DISPOSE OF THE WATER SO AS TO NOT CAUSE INJURY TO PUBLIC OR PRIVATE PROPERTY, OR TO CAUSE A NUISANCE OR MENACE TO THE PUBLIC. THE DEWATERING SYSTEM SHALL BE INSTALLED AND OPERATED SO THE GROUNDWATER LEVEL OUTSIDE THE EXCAVATION IS NOT REDUCED TO THE EXTENT WHICH WOULD CAUSE DAMAGE OR ENDANGER ADJACENT STRUCTURES OR PROPERTY. ALL COSTS FOR DEWATERING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ALL PIPE CONSTRUCTION. THE STATIC WATER LEVEL SHALL BE DRAWN DOWN A MINIMUM OF 1 FOOT BELOW THE BOTTOM OF EXCAVATION OF ANY FILL TO THE SPECIFIED DENSITY. DISPOSAL OF WATER SHALL BE IN ACCORDANCE WITH THE APPROVED SWPPP AND SHALL NOT DAMAGE PROPERTY, CREATE A PUBLIC NUISANCE OR VIOLATE THE LAW. THE CONTRACTOR SHALL HAVE ON HAND, PUMPING EQUIPMENT AND MACHINERY IN GOOD WORKING CONDITION FOR EMERGENCIES AND SHALL HAVE WORKMEN AVAILABLE FOR ITS OPERATION. THE DEWATERING SYSTEM SHALL OPERATE CONTINUOUSLY UNTIL BACK-FILL HAS BEEN COMPLETED TO 1 FOOT ABOVE THE NORMAL STATIC GROUNDWATER LEVEL.
18. ANY VOIDS LEFT BY THE REMOVAL OF UNDERGROUND UTILITIES OR OTHER BURIED OBJECTS SHALL BE CLEANED OF ALL LOOSE SOILS AND SHALL BE PROPERLY BACKFILLED WITH ENGINEERED FILLED THAT THE OWNER APPROVES.
19. ENGINEERED FILL SHALL BE PLACED IN HORIZONTAL LAYERS A MAXIMUM OF 8 INCHES IN LOOSE THICKNESS AND BE COMPACTED TO A MINIMUM OF 90 PERCENT OF MAXIMUM DRY DENSITY AS DETERMINED BY THE OWNER'S SOIL ENGINEER.
20. SAFETY DURING DEMOLITION AND CONSTRUCTION MUST COMPLY WITH CFC CHAPTER 33.

GRADING NOTES

1. GRADING AND LAND STABILIZATION SHALL INCLUDE COST OF REMOVING FROM THE SITE ALL STRIPPED VEGETATION, DEBRIS, STRUCTURES, POWER POLES, EXISTING PAVEMENT, TREES, AND OTHER DELETERIOUS MATERIALS.
2. STOCKPILES OF EXISTING DELETERIOUS MATERIAL SHALL BE HAULED OFF AND DISPOSED OF BY CONTRACTOR.
3. WHEN GRADING OCCURS DURING THE WET SEASON (OCTOBER 1 THROUGH APRIL 15), THE CONTRACTOR SHALL CONDUCT AND DOCUMENT SELF ON-SITE INSPECTIONS DURING RAIN EVENTS EXCEEDING 0.1 INCH OVER 24 HOUR PERIOD. IN ADDITION, SUSCEPTIBLE SLOPES SHALL BE COVERED.
5. NO FILL TO BE PLACED UNTIL DSA OR THIRD PARTY INSPECTOR HAS INSPECTED AND APPROVED THE BOTTOM EXCAVATION.
6. ALL FILL SHALL BE COMPACTED TO A MINIMUM RELATIVE COMPACTION OF 90% UNLESS OTHERWISE NOTED ON THE PLANS, IN THE SPECIFICATIONS, OR IN THE GEOTECHNICAL REPORT. LANDSCAPE AREAS SHALL BE COMPACTED TO A MINIMUM RELATIVE COMPACTION OF 85%.
7. TEMPORARY EROSION CONTROL TO BE INSTALLED DURING CONSTRUCTION.

SITE ACCESSIBILITY GENERAL NOTES

WALKING SURFACES

1. THE RUNNING SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:20. THE CROSS SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:48. EXCEPTION: THE RUNNING SLOPE OF SIDEWALKS SHALL NOT EXCEED THE GENERAL GRADE ESTABLISHED FOR THE ADJACENT STREET OR HIGHWAY. (11B-403.3).
2. FLOOR AND GROUND SURFACES SHALL BE STABLE, FIRM AND SLIP RESISTANT. CHANGES IN LEVEL SHALL COMPLY WITH SECTION 11B-303.
3. CHANGES IN LEVEL BETWEEN 1/4 INCH HIGH MAX. SHALL BE PERMITTED TO BE VERTICAL AND WITHOUT EDGE TREATMENT. CHANGES IN LEVEL BETWEEN 1/4 INCH HIGH MIN. AND 1/2 INCH HIGH MAX. SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2. CHANGES IN LEVEL GREATER THAN 1/2 INCH HIGH SHALL BE RAMPED, AND SHALL COMPLY WITH SECTION 11B-405 OR 11B-406. (11B-303.2,11B-303.3,11B-303.4).
4. ABRUPT CHANGES IN LEVEL EXCEEDING 4" OTHER PEDESTRIAN WAYS AND ADJACENT SURFACES OR FEATURES SHALL BE IDENTIFIED BY WARNING CURBS AT 6 INCHES IN HEIGHT ABOVE THE WALK OR SIDEWALK SURFACE. (11B-303.5)
5. EXCEPT AS PROVIDED IN SECTIONS 11 B-403.5.2 AND 11 B-403.5.3, THE CLEAR WIDTH OF WALKING SURFACES SHALL BE 36 INCHES MIN. EXCEPTIONS:
   A) THE CLEAR WIDTH SHALL BE REDUCED TO 32 INCHES MIN. FOR A LENGTH OF 24 INCHES MAX. PROVIDED THAT REDUCED WIDTH SEGMENTS ARE SEPARATED BY SEGMENTS THAT ARE 48 INCHES LONG MIN AND 36 INCHES WIDE MIN.
   B) THE CLEAR WIDTH FOR WALKING SURFACES IN CORRIDORS SERVING AN OCCUPANT LOAD OF 10 OR MORE SHALL BE 44 INCHES MIN.
   C) THE CLEAR WIDTH FOR SIDEWALKS AND WALKS SHALL BE 48 INCHES MIN.
   D) THE CLEAR WIDTH FOR AISLES SHALL BE 36 INCHES MIN IF SERVING ELEMENTS ON ONLY ONE SIDE AND 44 INCHES MIN. IF SERVING ELEMENTS ON BOTH SIDES.
6. AN ACCESSIBLE ROUTE WITH A CLEAR WIDTH LESS THAN 60 INCHES SHALL PROVIDE PASSING SPACES AT INTERVALS OF 200 FEET MAX. PASSING SPACES SHALL BE EITHER: A SPACE 60 INCHES MIN. BY 60 INCHES MIN. OR, AN INTERSECTION OF TWO WALKING SURFACES PROVIDING A T-SHAPED SPACE WHERE THE BASE AND ARMS OF THE T- SHAPED SPACE EXTEND 48 INCHES MIN. BEYOND THE INTERSECTION. (11 B-403.5.3)
7. ALL WALKS WITH CONTINUOUS GRADIENTS SHALL HAVE RESTING AREAS 60 INCHES IN LENGTH, AT INTERVALS OF 400 FEET MAX. THE REST SHALL BE AT LEAST AS WIDE AS THE WALK. THE SLOPE OF THE RESTING AREA IN ALL DIRECTIONS SHALL BE 1:48 MAX. (11B-403.7)
8. OPENINGS IN FLOOR OR GROUND SURFACES SHALL NOT ALLOW PASSAGE OF A SPHERE MORE THAN 1/2 INCH DIAMETER. ELONGATED OPENING SHALL BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL. (11B-302.3).
9. CARPET OR CARPET TILE SHALL BE SECURELY ATTACHED AND SHALL HAVE A FIRM CUSHION, PAD, OR BACKING OR NO CUSHION OR PAD. CARPET OR CARPET TILE SHALL HAVE A LEVEL LOOP, TEXTURED LOOP, LEVEL CUT PILE, LEVEL CUT/UNCUT PILE TEXTURE. PILE HEIGHT SHALL BE 1/2 INCH MAX. EXPOSED EDGES OF CARPET SHALL BE FASTENED TO FLOOR SURFACES AND SHALL HAVE TRIM ON THE ENTIRE LENGTH OF THE EXPOSED EDGE. (11B-302.2).

CURB RAMPS

CURB RAMP IS DEFINED AS "A SLOPING PEDESTRIAN WAY, INTENDED FOR PEDESTRIAN TRAFFIC, WHICH PROVIDES ACCESS BETWEEN A WALK OR SIDEWALK AND A SURFACE LOCATED ABOVE OR BELOW AN ADJACENT CURB FACE." (202)

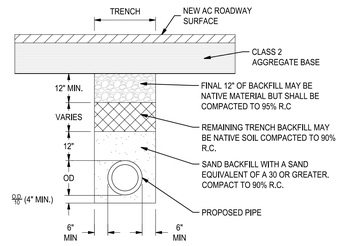
1. CURB RAMPS MAY BE PERPENDICULAR, PARALLEL, OR A COMBINATION OF PERPENDICULAR AND PARALLEL. RAMP SHALL HAVE A RUNNING SLOPE NOT STEEPER THAN 1*12. WHERE PROVIDED, CURB RAMP FLARES SHALL NOT BE STEEPER THAN 1:10. (11 B-406.1, 11 B-406.2).
2. THE RUNNING SLOPE OF PARALLEL CURB RAMP SEGMENTS SHALL BE IN-LINE WITH THE DIRECTION OF THE SIDEWALK TRAVEL. RAMP RUNS SHALL HAVE A RUNNING SLOPE NOT STEEPER THAN 1:12. A TURNING SPACE 48 INCHES MIN. SHALL BE PROVIDED AT THE BOTTOM OF THE CURB RAMP, THE SLOPE OF THE TURNING SPACE IN ALL DIRECTIONS SHALL BE 1:48 MAX. (11B-406.3)
3. BLENDED TRANSITIONS SHALL HAVE A RUNNING SLOPE NOT STEEPER THAN 1:20.(11B-406.4)
4. CURB RAMPS AND THE FLARES SIDES SHALL BE LOCATED SO THAT THEY DO NOT PROJECT INTO THE VEHICULAR TRAFFIC LANES, PARKING SPACES, OR PARKING ACCESS AISLES. CURB RAMPS AT MARKED CROSSINGS SHALL BE WHOLLY CONTAINED WITHIN THE MARKINGS, EXCLUDING ANY FLARED SIDES. (11B-406.5.1).
5. THE CLEAR WIDTH OF CURB RAMP RUNS (EXCLUDING ANY FLARED SIDES), BLENDED TRANSITIONS, AND TURNING SPACES SHALL BE 48 INCHES MIN. LANDINGS SHALL BE PROVIDED AT THE TOPS OF CURB RAMPS AND BLENDED TRANSITIONS. THE LANDINGS CLEAR LENGTH SHALL BE 48 INCHES MIN. THE LANDING CLEAR WIDTH SHALL BE AT LEAST AS WIDE AS THE CURB RAMP,EXCLUDING ANY FLARED SIDES OR THE BLENDED TRANSITION LEADING TO THE LANDING. THE SLOPE OF THE LANDING IN ALL DIRECTIONS SHALL BE 1:48 MAX. (11B-406.5.2, 11B-406.5.3)
6. COUNTER SLOPES OF ADJOINING GUTTERS AND ROAD SURFACES IMMEDIATELY ADJACENT TO AND WITHIN 24 INCHES OF THE RAMP SHALL NOT BE STEEPER THAN 1:20. THE ADJACENT SURFACES AT TRANSITIONS AT CURB RAMPS TO WALKS, GUTTERS, AND STREETS SHALL BE AT THE SAME LEVEL. (11B-(11B-406.5.8).
7. THE BOTTOM OF DIAGONAL CURB RAMPS SHALL HAVE A CLEAR SPACE 48INCHES MIN. OUTSIDE ACTIVE TRAFFIC LANES OF THE ROADWAY. DIAGONAL OR CORNER TYPE CURB RAMPS WITH RETURNED CURBS OR OTHER WELL-DEFINED EDGES SHALL HAVE THE EDGES PARALLEL TO THE DIRECTION OF PEDESTRIAN FLOW. DIAGONAL CURB RAMPS WITH FLARED SIDES SHALL HAVE A SEGMENT OF CURB 24 INCHES LONG MIN. LOCATED ON EACH SIDE OF THE CURB RAMP AND WITHIN THE MARKED CROSSING. (11B-406.5.9, 11B-(11B-406.5.10).
8. CURB RAMPS SHALL HAVE A GROOVED BORDER 12 INCHES WIDE ALONG THE TOP OF THE CURB RAMP AT THE LEVEL SURFACE OF THE TOP OF LANDING AND AT THE OUTSIDE EDGES OF THE FLARED SIDES. AT PARALLEL CURB RAMPS THE GROOVED BORDER SHALL BE ON THE UPPER APPROACH IMMEDIATELY.

SITE DEVELOPMENT & ACCESSIBLE ROUTE OF TRAVEL

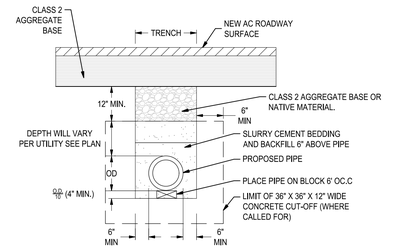
1. ACCESSIBLE ROUTE OF TRAVEL IS DEFINED AS "A CONTINUOUS UNOBSTRUCTED PATH CONNECTING ACCESSIBLE ELEMENTS AND SPACES ON AN ACCESSIBLE SITE. BUILDING OR FACILITY THAT CAN BE NEGOTIATED BY A PERSON WITH A DISABILITY USING A WHEELCHAIR AND THAT IS ALSO SAFE FOR AND USABLE BY PERSONS WITH OTHER DISABILITIES, AND THAT IS CONSISTENT WITH THE DEFINITION OF " PATH OF TRAVEL ", (202)
2. AT LEAST ONE ACCESSIBLE ROUTE SHALL BE PROVIDED WITHIN THE SITE SHALL FROM PUBLIC TRANSPORTATION STOPS, ACCESSIBLE PARKING AND ACCESSIBLE PASSENGER LOADING ZONES, PUBLIC STREETS AND SIDEWALKS TO THE ACCESSIBLE BUILDING OR FACILITY ENTRANCE THEY SERVE, WHERE MORE THAN ONE ROUTE IS PROVIDED ALL ROUTES MUST BE ACCESSIBLE. (11B-206.2)
3. AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ACCESSIBLE BUILDINGS, ACCESSIBLE FACILITIES ACCESSIBLE ELEMENTS AND ACCESSIBLE SPACES THAT ARE ON THE SAME SITE. (11B-206.2.2)
4. ACCESSIBLE ROUTES SHALL COINCIDE WITH OR BE LOCATED IN THE SAME AREA AS GENERAL CIRCULATION PATHS. AN ACCESSIBLE ROUTE SHALL NOT PASS THROUGH KITCHENS, STORAGE ROOMS, RESTROOMS, CLOSETS OR OTHER SPACES USED FOR SIMILAR PURPOSES, EXCEPT AS PERMITTED BY CHAPTER 10 (11B-206.3)
5. AT LEAST ONE ACCESSIBLE ROUTE SHALL CONNECT ACCESSIBLE BUILDING OR FACILITY ENTRANCES WITH ALL ACCESSIBLE SPACES AND ELEMENTS WITHIN THE BUILDING OR FACILITY. (11B-206.2.4)

PIPE TABLE

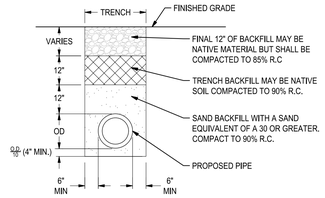
TYPE OF PIPE	PIPE DIAMETER	TYPE & CLASS	BEDDING AND BACKFILL	MINIMUM DEPTH OF BURY	PULL WIRE OR TRACER WIRE	END MARKERS
DOMESTIC WATER	3/4"-2"	1" DOMESTIC WATER SHALL BE COPPER, 4" AND LARGER SHALL BE PVC CL-150 DR-18 WITH TRACER WIRE AWWA C-900	PER DETAILS THIS SHEET	SEE DETAIL 4 THIS SHEET	ALL PIPES SHALL HAVE WARNING TAPE INSTALLED DIRECTLY ABOVE THE PIPES. ALL NON-METALIC PIPES SHALL ALSO HAVE TRACER WIRE INSTALLED.	1/2" x 3' STEEL SECTION OF REBAR SHALL BE DRIVEN IN THE GROUND AT ALL BURIED CAPPED ENDS
SANITARY SEWER	4"-6"	PVC SDR-26				



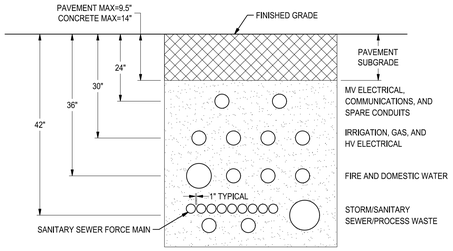
1 **TRENCHING AND BACKFILL PAVED AREAS**
NO SCALE



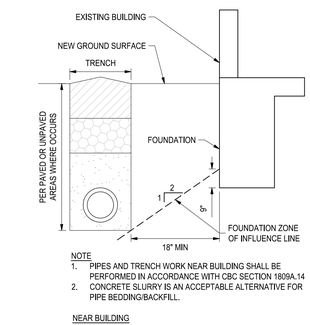
2 **SLURRY CEMENT TRENCH BACKFILL DETAIL**
NO SCALE



3 **TRENCHING AND BACKFILL UNPAVED AREAS AREAS**
NO SCALE



4 **APPROXIMATE BURIAL DEPTHS**
NO SCALE



NOTE
1. PIPES AND TRENCH WORK NEAR BUILDING SHALL BE PERFORMED IN ACCORDANCE WITH CBC SECTION 1809A.14
2. CONCRETE SLURRY IS AN ACCEPTABLE ALTERNATIVE FOR PIPE BEDDING/BACKFILL.

NEAR BUILDING

5 **TRENCH DETAIL**
NO SCALE

ABBREVIATIONS

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
@	AT	NO.	NUMBER
AB	AGGREGATE BASE	NRCP	NON-REINFORCED CONCRETE PIPE
ABS	ACRYLONITRILE-BUTADIENE-STYRENE	NTS	NOT TO SCALE
AC	ASPHALT CONCRETE	O.C.	ON CENTER
AD	AREA DRAIN	OD	OUTSIDE DIAMETER
BCR	BEGINNING OF CURB RETURN	P	PAVEMENT
BM	BENCHMARK	PC	POINT OF CURVATURE
BO	BLOWOFF	PCC	POINT OF COMPOUND CURVATURE
BOC	BACK OF CURB	POT	POINT OF TANGENCY
BOW	BACK OF WALK	PP	POWER POLE
C & G	CURB AND GUTTER	PRC	POINT OF REVERSE CURVATURE
C,G, & SW	CURB, GUTTER, AND SIDEWALK	PT	POINT
CL	CENTERLINE	PUE	PUBLIC UTILITY EASEMENT
CB	CATCH BASIN	PVC	POLYVINYL CHLORIDE
CJ	CONSTRUCTION JOINT	PL	PROPERTY LINE
CMP	CORRUGATED METAL PIPE	R	RADIAL OR RADIUS
CO	CLEANOUT	R.C.	RELATIVE COMPACTION
COS	CITY OF SACRAMENTO	R/W	RIGHT-OF-WAY
DIA	DIAMETER	RC	ROLL-CURB
DIP	DUCTILE IRON PIPE	RCP	REINFORCED CONCRETE PIPE
DWG	DRAWING	RD	ROOF DRAIN
EBOW	EXISTING BACK OF WALK	RP	RADIUS POINT
ECR	END OF CURB RETURN	RR	RAILROAD
EL	ELEVATION	RT	RIGHT
EG	EXISTING GROUND	RWL	RAIN WATER LEADER
EP	EDGE , EXISTING PAVEMENT	SD	STORM DRAIN
ESMT	EASEMENT	SS	SANITARY SEWER
E.W.	EACH WAY	SL	STREET LIGHT
EX	EXISTING	SW	SIDEWALK
FDC	FIRE DEPARTMENT CONNECTION	SDMH	STORM DRAIN MAINTENANCE HOLE
FG	FINISHED GRADE	SHT	SHEET
FL	FLOWLINE	SSMH	SANITARY SEWER MAINTENANCE HOLE
FH	FIRE HYDRANT	STA	STATION
FOC	FACE OF CURB	STD	STANDARD
FT	FEET	TC	TOP OF CURB
G	GROUND	TOW	TOP OF WALL
GB	GRADE BREAK	THRU	THROUGH
HP	HIGH POINT	TI	TRAFFIC INDEX
ID	INSIDE DIAMETER	TYP	TYPICAL
IN.	INCH	VERT	VERTICAL
IOR	INSPECTOR ON RECORD	W	WATER
LF	LINEAL FEET	WP	WEAKENED PLANE
LH	LAMP HOLE	(W)	WEST
LP	LOW POINT	(E)	EAST
LT	LEFT	(S)	SOUTH
LTSB	LIME TREATED SUB-BASE	(N)	NORTH
MAX	MAXIMUM	±	PLUS OR MINUS
MH	MAINTENANCE HOLE		
MID	MERCED IRRIGATION DISTRICT		
MIN	MINIMUM		

LEGEND

EXISTING		PROPOSED
11.93EC	CONCRETE ELEVATION	11.93C
11.93ETC / 11.43EC	TOP OF CURB ELEVATION / CONCRETE ELEVATION	11.93TC / 11.43C
12.05EP	PAVEMENT ELEVATION	12.05P
11.93ETC / 11.43EFL	TOP OF CURB ELEVATION / FLOW LINE ELEVATION	11.93TC / 11.43FL
12.05EFL	FLOW LINE ELEVATION	12.05FL
	TOP OF WALL ELEVATION / GRADE ELEVATION	12.05TW / 11.55G
12.05EG	GRADE ELEVATION	12.05G
	BASEROCK ELEVATION	12.05BR
	TOP OF CURB ELEVATION / BASEROCK ELEVATION	12.05TC / 11.30BR
	TOP OF CURB ELEVATION / PAVEMENT ELEVATION	12.05TC / 11.55P
50.0	GROUND CONTOUR	50.0
	PROPERTY & R/W LINE	
	EASEMENT	
0.5%	SANITARY SEWER LINE	8"SS
0.5%	STORM DRAIN LINE	12"SD
4"W	WATER LINE	4"W
6"FS / 6"FH	FIRE WATER SERVICE LINE	6"FS / 6"FH
E	ELECTRICAL LINE	E
G	GAS LINE	G
TELE	TELECOMMUNICATION LINE	TELE
JT	JOINT TRENCH	JT
	CATCH BASIN	
	STORM DRAIN INLET	
	UTILITY CLEANOUT	
	GATE VALVE	
	SITE LIGHT	
x x x	WOOD FENCE	x x x
	CHAIN LINK FENCE	
	BARBED WIRE FENCE	
	FIRE HYDRANT	
	UTILITY POLE	
	ANCHOR GUY	
	SIGN	
B	BOLLARD	
	TREE	
BFP	BACKFLOW PREVENTER	BFP
E E	ELECTRICAL BOX	E E
W	WATER METER	W
G	GAS VALVE	
	MAINTENANCE HOLE	

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DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT: (DSA PR 15-01)

THE POT IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS. AS PART OF THE DESIGN OF THIS PROJECT, THE POT WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WERE DETERMINED TO BE NONCOMPLIANT 1) HAVE BEEN IDENTIFIED AND 2) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECT'S WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS. ANY NONCOMPLIANT ELEMENTS, COMPONENTS OR PORTIONS OF THE POT THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR A FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS.

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- SURVEYING
- PLANNING
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- GEOTECHNICAL

REVISIONS

No.	Date	Description

PROJECT

MARK TWAIN ELEMENTARY SCHOOL

4914 58TH STREET
SACRAMENTO, CA
95820
DSA# 02-123992

REGISTERED PROFESSIONAL ENGINEER PAUL J. SCHNEIDER No. 62499 Exp. 08/30/27 CIVIL STATE OF CALIFORNIA

DATE SIGNED: 01/26/26

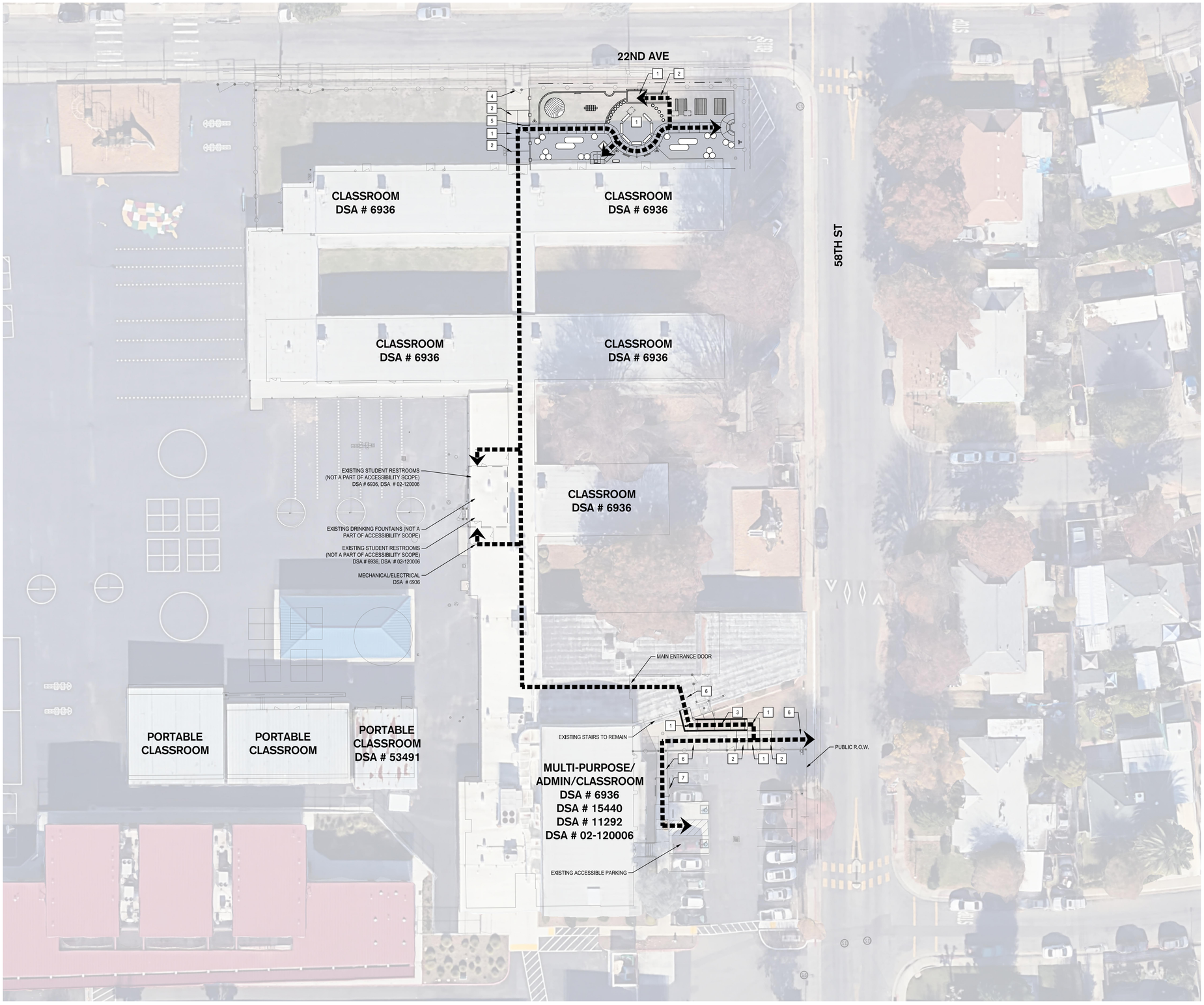
SHEET TITLE

GENERAL NOTES & ABBREVIATIONS

Proj Mgr	PJS
Drawn by	RRG
Date	01/26/2026
Job No.	25206

Sheet:
C1.0
2 of: 17

F:\25PROJECTS\25206 SACRAMENTO CITY UNIFIED - MARK TWAIN\PLANS AND GRAPHICS\IMPROVEMENT PLANS\25206-C1.0- GENERAL NOTES & ABBREVIATIONS.DWG 1/26/2026 5:35 PM



NOTES

1. FOR PROPOSED ACCESSIBLE INFORMATION:
   - 1.A. DETAILS - C7.0
   - 1.B. DIMENSIONS - C3.0
   - 1.C. GRADING - C4.0

LEGEND

ACCESSIBLE PATH OF TRAVEL

PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER-FREE ACCESS WITHOUT ANY ABRUPT LEVEL CHANGES EXCEEDING 1/2" BEVELED AT 1:2 MAX SLOPE OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAX AND AT LEAST 48" WIDE. SURFACE IS SLIP RESISTANT, STABLE, FIRM, AND SMOOTH, CROSS SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED. PATH OF TRAVEL SHALLE BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MIN HEIGHT AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL ABOVE 27" AND BELOW 80" ABOVE THE FLOOR.

KEY NOTES

1	2% MAX IN ANY DIRECTION
2	PATH OF TRAVEL: 2% MAX CROSS SLOPE AND 5% MAX SLOPE IN DIRECTION OF TRAVEL
3	RAMP: 2% MAX CROSS SLOPE AND 8.33% MAX SLOPE IN DIRECTION OF TRAVEL
4	EXISTING GATE
5	NEW GATE
6	EXISTING CONCRETE PAVING TO REMAIN
7	NON-COMPLIANT CROSS SLOPE FOUND IN THE FIELD WITH 2 FOOT LEVEL (2.7%+/-), NOT A PART OF THE PROJECT SCOPE

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SCALE: 1"=20'

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REVISIONS

No.	Date	Description

PROJECT

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DSA# 02-123992

REGISTERED PROFESSIONAL ENGINEER
PAUL J. SCHNEIDER
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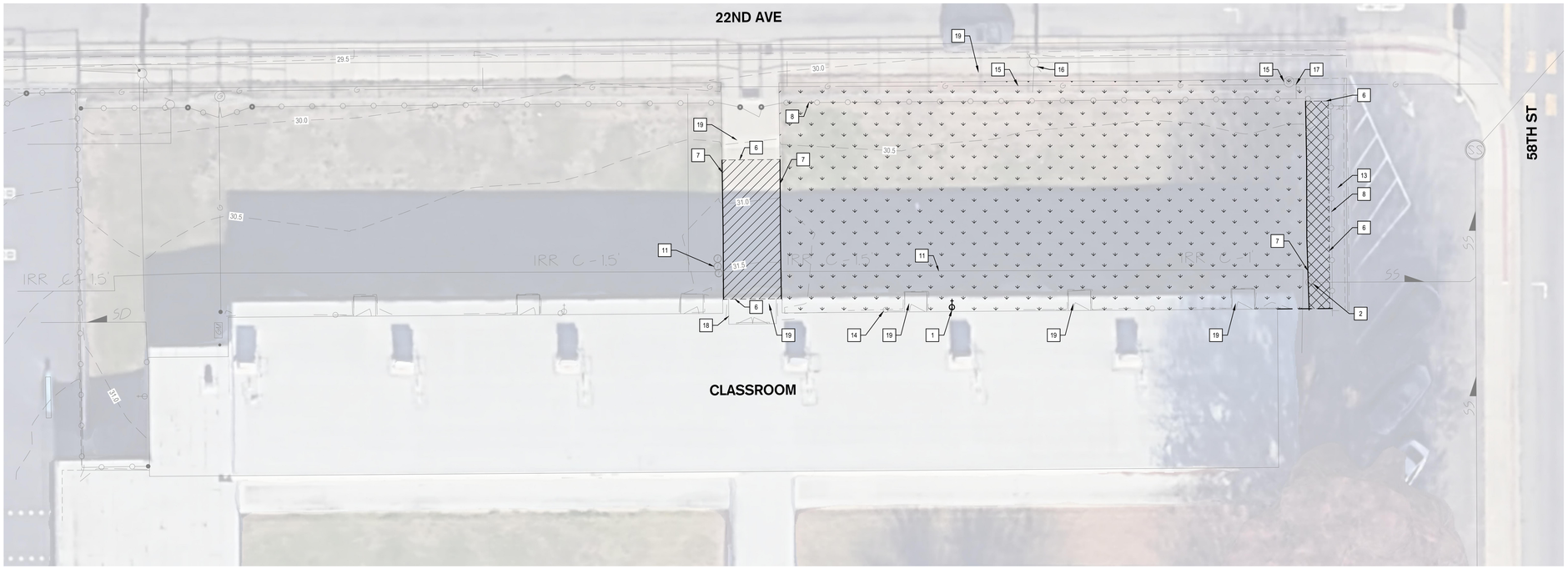
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SHEET TITLE

SITE ACCESSIBILITY PLAN

Proj Mgr.	PJS
Drawn by	RRG
Date	01/26/2026
Job No.	25206
Sheet:	C1.1
	3 of: 17

F:\25PROJECTS\25206 SACRAMENTO CITY UNIFIED - MARK TWAIN\PLANS AND GRAPHICS\IMPROVEMENT PLANS\25206-C1.1-SITE ACCESSIBILITY PLAN.DWG 1/26/2026 5:35 PM





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GENERAL NOTES

1. ALL EXCAVATION SPOILS, INCLUDING, BUT NOT LIMITED TO CONCRETE AND PAVEMENT EXCAVATION, SHALL BE EXPORTED AND DISPOSED OF OFF-SITE BY THE CONTRACTOR. CONCRETE THAT IS RECYCLED SHALL REFER TO THE PROJECT SPECIFICATIONS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY OF THE EXISTING UTILITIES, INCLUDING, BUT NOT LIMITED TO UTILITY BOXES, THAT ARE FOUND TO BE BROKEN, CRACKED, OR OTHERWISE DAMAGED.
3. ALL UTILITY BOXES AND MAINTENANCE HOLES SHALL BE PROTECTED AND ADJUSTED TO FINISH GRADE, UNLESS OTHERWISE NOTED.
4. CLEAR AND GRUB SITE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT, TO EXTEND TO LIMIT OF PROPOSED IMPROVEMENTS.
5. NO STRUCTURAL BUILDING CONCRETE SHALL BE SAWCUT WITHOUT AN APPROVED SAWCUTTING PLAN, BUILDING AND BUILDING FOUNDATION SHALL BE PROTECTED IN PLACE.
6. SAFETY DURING DEMOLITION AND CONSTRUCTION MUST COMPLY WITH CFC CHAPTER 33.

NO DEMOLITION SHALL BEGIN UNTIL PLANS INCLUDING THE DEMOLITION WORK HAS BEEN APPROVED BY DSA.

LEGEND

REMOVE AND DISPOSE EXISTING CONCRETE. REMOVAL SHALL BE PERFORMED AT THE NEAREST RELIEF JOINT, AT EACH END OF THE PROPOSED WORK. REMOVAL DEPTH SHALL ACCOMMODATE DEPTH OF PROPOSED IMPROVEMENTS. NO STRUCTURAL BUILDING CONCRETE SHALL BE SAWCUT WITHOUT AN APPROVED SAWCUTTING PLAN.

REMOVE AND DISPOSE OF EXISTING ASPHALT CONCRETE. REMOVAL DEPTH SHALL ACCOMMODATE DEPTH OF PROPOSED IMPROVEMENTS.

CLEAR AND GRUB

KEY NOTES

1	REMOVE AND DISPOSE OF HOSEBIB TO BE RECONNECTED,SEE UTILITY PLAN
2	PROTECT IN PLACE, EXISTING SANITARY SEWER STRUCTURE/LINE
3	REMOVE AND DISPOSE EXISTING ACCESSIBLE RAMP WITH HANDRAILS
4	REMOVE AND DISPOSE EXISTING HOSE BIB
5	REMOVE AND DISPOSE EXISTING HANDRAIL
6	SAWCUT AT NEAREST JOINT OR NEAT LINE
7	EDGE OF PAVEMENT TO BE REMOVED
8	PROTECT IN PLACE, EXISTING CHAIN LINK FENCE
9	PROTECT IN PLACE, EXISTING BUILDING COLUMNS
10	PROTECT IN PLACE EXISTING STRIPING
11	PROTECT IN PLACE EXISTING IRRIGATION STRUCTURE/LINE
12	PROTECT IN PLACE, EXISTING CONCRETE CURB
13	PROTECT IN PLACE, EXISTING AC PAVEMENT
14	PROTECT IN PLACE, EXISTING DOWNSPOUT
15	PROTECT IN PLACE, EXISTING GAS STRUCTURE/LINE
16	PROTECT IN PLACE, EXISTING POWER POLE, GUY ANCHORS, AND OVERHEAD LINES
17	PROTECT IN PLACE, EXISTING SIGN
18	PROTECT IN PLACE, EXISTING BUILDING AND BUILDING FOUNDATION
19	PROTECT IN PLACE, EXISTING CONCRETE PAVEMENT

0' 5' 10' 20'
SCALE: 1"=10'

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REVISIONS
No. Date Description

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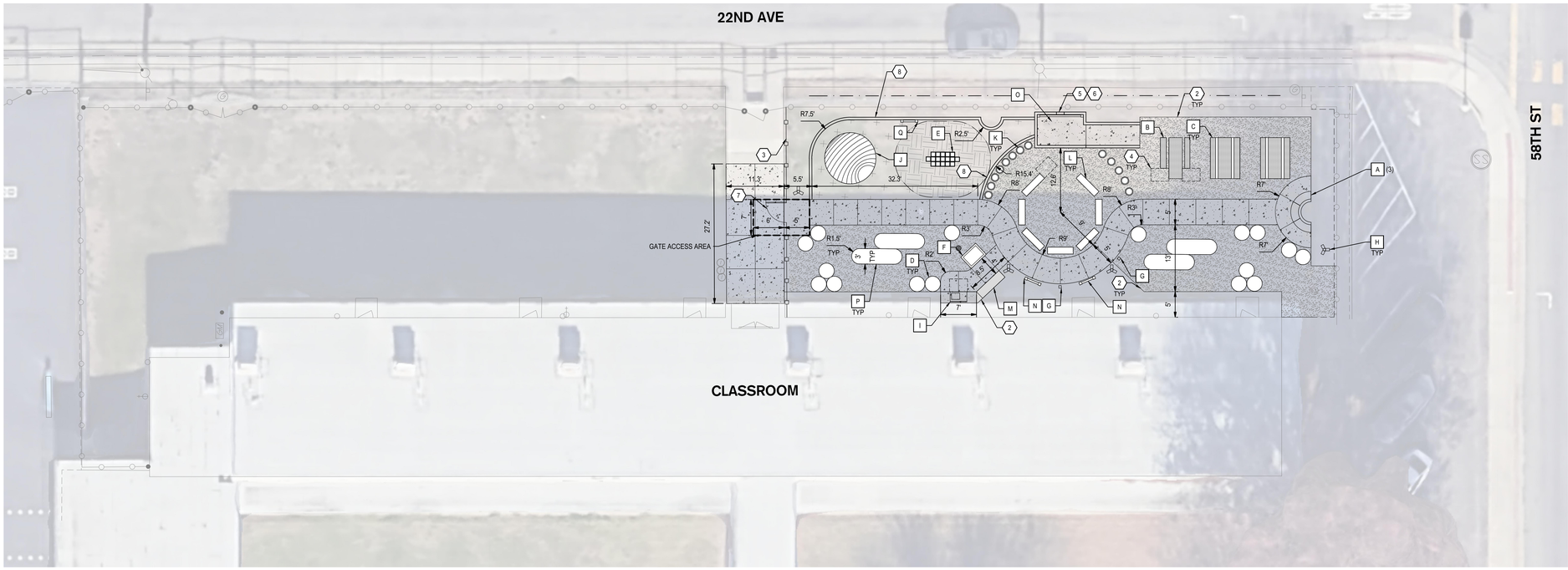
SHEET TITLE

EXISTING CONDITIONS & DEMOLITION PLAN

Proj Mgr	PJS
Drawn by	RRG
Date	01/26/2026
Job No.	25206

Sheet:
C2.0
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GENERAL PAVING AND DIMENSIONING NOTES

ALL MATERIAL AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIE PROJECT SHALL CONFORM TO ALL APPLICABLE CITY OF SACRAMENTO STANDARD SPECIFICATIONS (LATEST EDITION).

1. CONTRACTOR SHALL IMMEDIATELY NOTIFY ENGINEER OF ANY QUESTION THAT MAY ARISE CONCERNING THE INTENT, PLACEMENT, OR LIMITS OF DIMENSIONS NECESSARY FOR CONSTRUCTION OF THIS PROJECT.
2. ALL CURB RADII ARE 2.5', UNLESS OTHERWISE NOTED.
3. ALL COORDINATE POINTS ARE AT FACE OF CURB OR RADIUS POINT. BUILDING CONTROL POINTS ARE AT THE OUTER MOST EDGE OF THE BUILDING ENVELOPE.
4. THE CONTRACTOR SHALL SAWCUT EXISTING PAVEMENT, CURBS, AND SIDEWALKS AT NEW PAVEMENT, CURB AND SIDEWALK JUNCTURES. NO JAGGED OR IRREGULAR CUTS WILL BE ALLOWED OR ACCEPTED.
5. ALL PAINT SHALL BE 4" WIDE WHITE REFLECTIVE PAINT: WHITE ON TOP OF 6" WIDE BLACK STRIPE ON CONCRETE UNLESS OTHERWISE NOTED ON THE DRAWINGS.
6. ALL PAVEMENT MARKINGS SHALL RECEIVE TWO COATS OF PAINT.
7. ALL SIGNS SHALL CONFORM TO MUTCD, LATEST EDITION.
8. ALL CONCRETE SIDEWALK SHALL BE 5' IN WIDTH UNLESS OTHERWISE SPECIFIED.
9. ALL CURBS ARE 6" HIGH UNLESS OTHERWISE NOTED.
10. BUILDINGS ARE SHOWN FOR REFERENCE ONLY, REFER TO ARCHITECTURAL PLANS.
11. NO FREE DECOMPOSED GRANITE PATH EDGES WILL BE ACCEPTED, ALL NEW DECOMPOSED GRANITE EDGES SHALL BE CONTAINED BY METAL HEADER, SEE DETAIL 4 ON SHEET C7.0

NOTES

DESCRIPTION	COLOR/FINISH
STANDARD CONCRETE PAVING 4" 3,000 PSI P.C.C. W/ #4 @ 18" O.C. OVER 4" CLASS II AGGREGATE BASE OVER 8" SUBGRADE SCARIFIED, MOISTURE CONDITIONED, AND COMPACTED TO 95% R.C. IN ACCORDANCE WITH ASTM D1557. CONCRETE PAVING JOINTS PER DETAIL 1 SHEET C7.0. SEE DETAIL 3 FOR CONCRETE SECTION AND EDGE TREATMENT.	STANDARD GRAY COLOR MEDIUM BROOM FINISH
DECOMPOSED GRANITE 6" LAYER OF DECOMPOSED GRANITE WITH STABILIZER IN ACCORDANCE WITH PROJECT SPECIFICATIONS OVER MIRAFI 140N FILTER FABRIC. PLACE IN 2" LIFTS. SCARIFY, MOISTURE CONDITION, AND COMPACT 8" SUBGRADE TO 90% R.C. IN ACCORDANCE WITH ASTM D1557. SEE DETAIL 14 ON SHEET C7.0.	
AGGREGATE BASE 6" CLASS II AB COMPACTED 95% R.C. OVER 8" SUBGRADE COMPACTED TO 90% R.C. IN ACCORDANCE WITH ASTM D1557.	
ENGINEERED WOOD FIBER 6" THICK LAYER OF ENGINEERED WOOD FIBER, SEE DETAIL 13 ON SHEET C7.0	
ENGINEERED WOOD FIBER 9" THICK LAYER OF ENGINEERED WOOD FIBER, SEE DETAIL 13 ON SHEET C7.0	

KEY NOTES

1. INSTALL NEW TOW-AWAY SIGN ON EXISTING SIGN POST BELOW EXISTING SIGN PER DETAIL 12 ON SHEET C7.0
2. METAL HEADER PER DETAIL 4 ON SHEET C7.0
3. INSTALL FENCE PER DETAIL 10 ON SHEET C7.0
4. 2.5' x 3.5' ACCESSIBLE COMPANION SEATING AREA
5. 12" WIDE CURB CUT
6. TEACHING PLATFORM RAMP PER DETAIL 2 ON SHEET C4.0
7. INSTALL GATE PER DETAIL 5 ON SHEET C7.0
8. INSTALL 6" FLUSH CURB PER DETAIL 15 ON SHEET C7.0

SITE FURNITURE ACCESSIBILITY NOTE:
PER 11B-226.1 - 5% OF EACH SEATING TYPE SHALL BE ACCESSIBLE

TYPE L: STRIPPED WOOD LOG 5' — (X7) EA W/ TOTAL OF 2 SEATS EA 14 X .05 = .7, 1 ACCESSIBLE PROVIDED

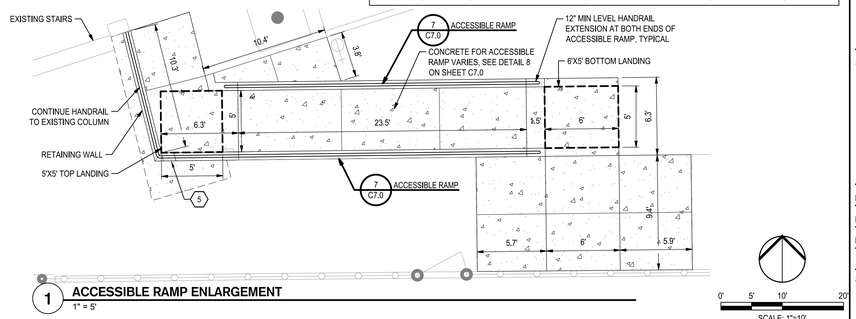
TYPE B: ACCESSIBLE TABLE — (X1) EA W/ TOTAL OF 8 SEATS EA 8 X .05 = .1, 1 ACCESSIBLE PROVIDED

TYPE C: PICNIC TABLE — (X2) EA W/ TOTAL OF 8 SEATS EA 16 X .05 = .8, 1 ACCESSIBLE PROVIDED

NOTE:
FOR BUILDING DSA APPLICATION AND BUILDING INFORMATION, REFER TO SHEET C1.1

SITE FURNISHINGS & AMENITIES

REFERENCE	SYMBOL	DESCRIPTION	MANUFACTURER / MODEL	COLOR / FINISH	DETAIL # /SHEET
A		CURVED BENCH	MAGLIN/ OGDEN CURVED HDPE SQUARE LEG	HDPE GREEN	6/L3.0
B		ACCESSIBLE TABLE 8' LONG, FREESTANDING (N) ACC - NEW ACCESSIBLE TABLE	WWW.ULTRA-SITECOM STD MODEL: 238-V8 ACCESSIBLE MODEL: 238HS-V8	GREEN THERMOPLASTIC-COATED STEEL	3/L3.0
C		PICNIC TABLE 8' LONG, FREESTANDING (N) ACC - NEW TABLE	WWW.ULTRA-SITECOM STD MODEL: 238-V8 ACCESSIBLE MODEL: 238HS-V8	GREEN THERMOPLASTIC-COATED STEEL	3/L3.0
D		METAL PLANTER 24" & 30" TALL, 36" ROUND	ANLEOLIFE	QUARTZ GRAY POWDER COATED GALVANIZED STEEL	5/L3.0
E		STEPPING COLUMN CLUSTER	COLUMBIA CASCADE WWW.TIMBERFORM.COM MODEL: 4500-503	DOUGLAS FIR WOOD	14/L3.0
F		ACCESSIBLE RAISED GARDEN BED (N) ACC - ACCESSIBLE	SEE SITE DETAILS	SEE SITE DETAILS	4/L3.0
G		MAGNIFYING GLASS STATION	NATURAL PLAYGROUNDS CO. WWW.NATURALPLAYGROUNDSTORE.COM	N/A	11/L3.0
H		BIRDHOUSE POLE	SEE SITE DETAILS	N/A	9/L3.0
I		KITCHEN UTILITY SINK 39.4"L X 23.6"W X 31.5"H	PUREZMMOTO	STAINLESS STEEL	7/L3.0
J		WILLOW DOME KIT 10' DIA, 5 RODS/FOOT	WWW.LIVINGWILLOWFARM.COM	WILLOW RODS	PER SUPPLIER
K		LOG SEAT 12"± DIAMETER, SURFACE MOUNTED	MOUNTAIN ENTERPRISES CONTACT: ABINESH PHASAD, OFFICE: 530-629-4127, AP5927@MTFENT.COM	NATURAL WOOD SMOOTH	1/L3.0
L		STRIPPED WOOD LOG 5'± LONG, BACKLESS, SURFACE MOUNTED	MOUNTAIN ENTERPRISES CONTACT: ABINESH PHASAD, OFFICE: 530-629-4127, AP5927@MTFENT.COM	NATURAL WOOD SMOOTH	2/L3.0
M		PLAY KITCHEN INSTALLED OVER COMPACTED AB PER LEGEND.	SEE SITE DETAILS	N/A	8/L3.0
N		CLEAR PLANTER	SEE SITE DETAILS	N/A	10/L3.0
O		CHALKBOARD 4'X8' PANEL	NATURE'S INSTRUMENTS NHPG-30X4-01 SURFACE MOUNT	N/A	13/L3.0
P		METAL PLANTER 30" TALL, 10' LONG, 3' WIDE	ANLEOLIFE	QUARTZ GRAY POWDER COATED GALVANIZED STEEL	5/L3.0
BID ALTERNATIVE #1					
Q		MUSIC PANEL INGROUND	FREENOTES GRIFFIN	RECYCLED	12/L3.0



1 ACCESSIBLE RAMP ENLARGEMENT
1" = 5'

0' 5' 10' 20'
SCALE: 1"=10'

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REGISTERED PROFESSIONAL ENGINEER PAUL J. SCHNEIDER No. 62498 Exp. 09/30/27 CIVIL STATE OF CALIFORNIA

DATE SIGNED: 01/26/26

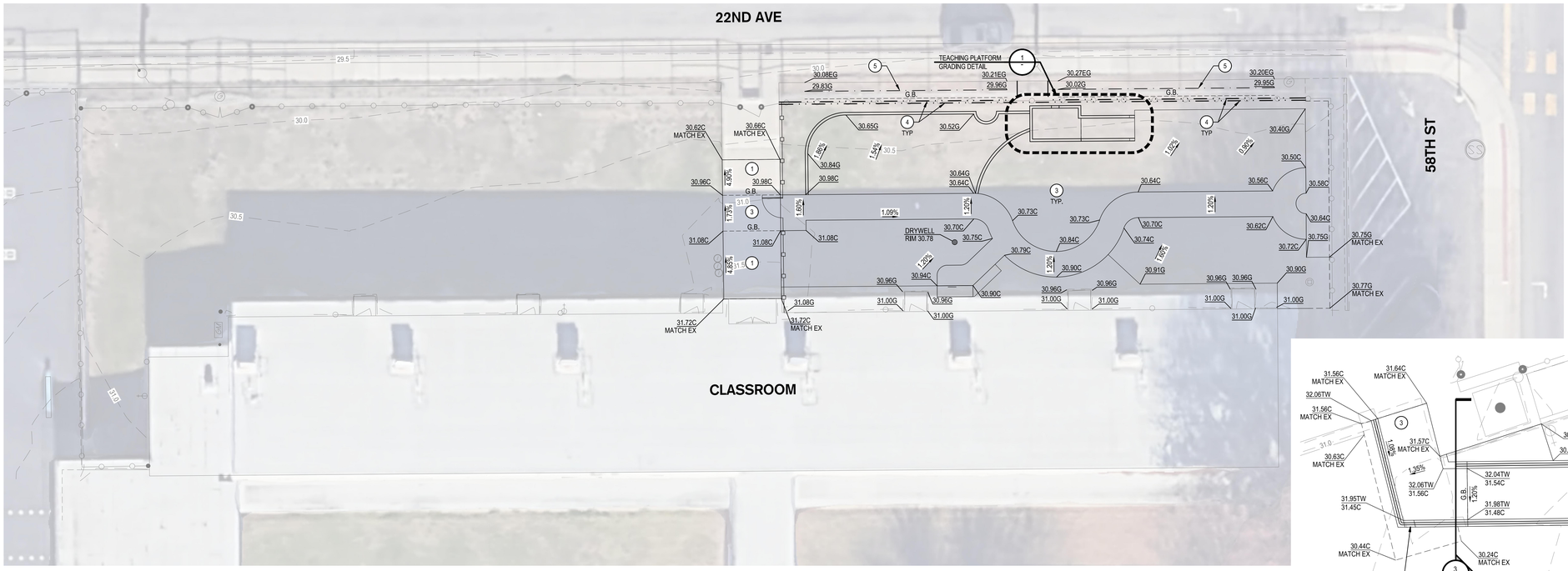
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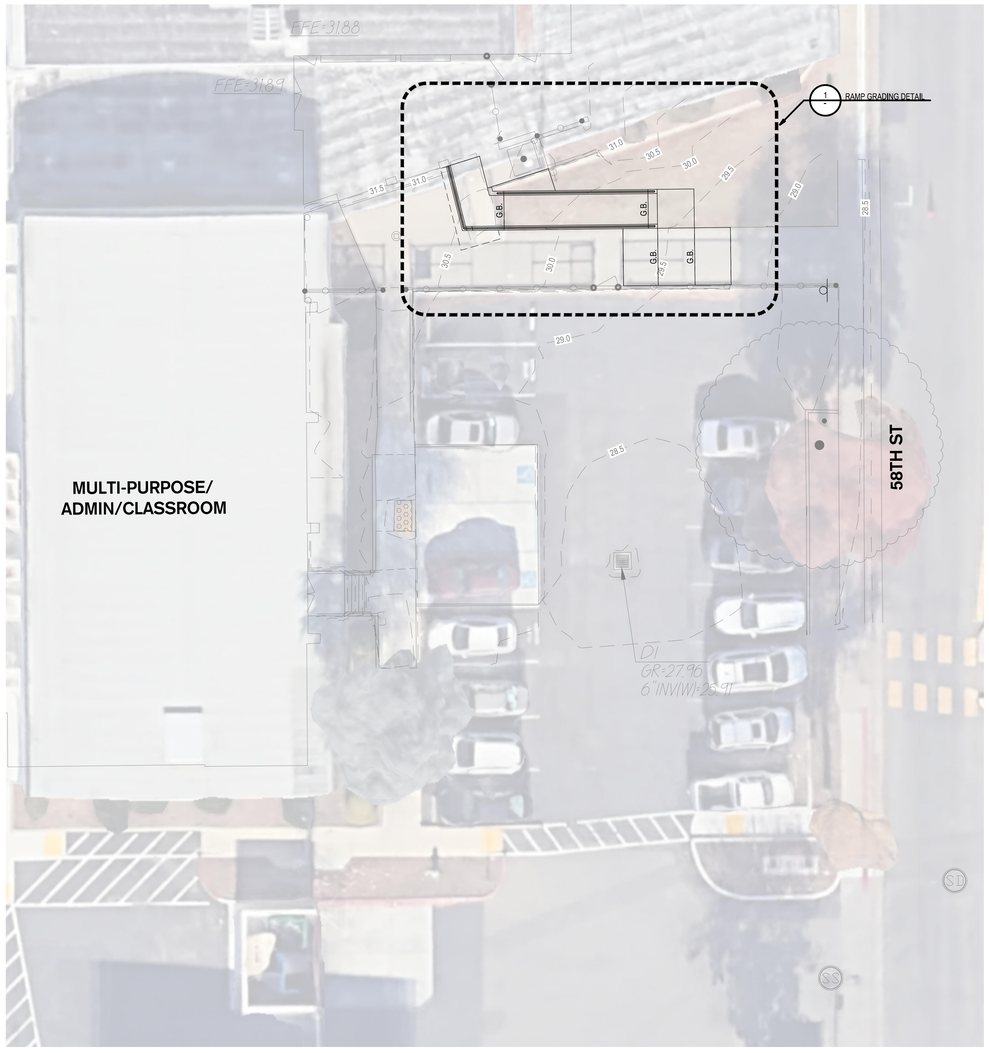
PAVING & SITE AMENITIES PLAN

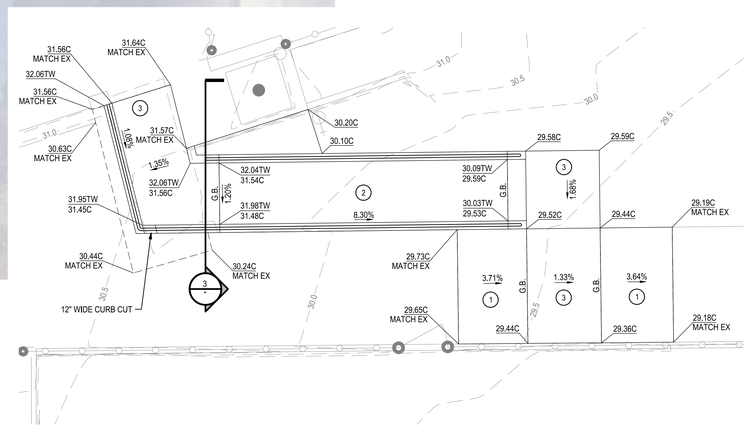
Proj Mgr	PJS
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Date	01/26/2026
Job No.	25206

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C3.0
5 of: 17

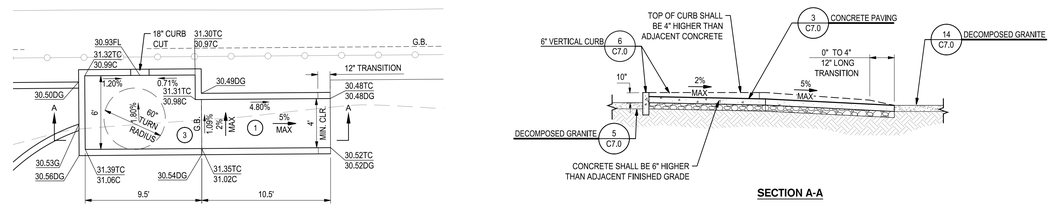
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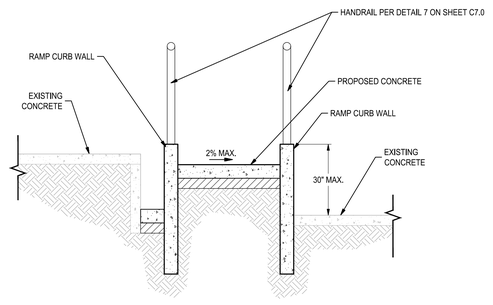


1 RAMP GRADING DETAIL
1" = 5'



SECTION A-A

2 TEACHING PLATFORM GRADING DETAIL
1" = 5'



3 GRADING SECTION
NO SCALE

GENERAL GRADING NOTES

1. ADJUST EXISTING UTILITIES TO GRADE UNLESS OTHERWISE NOTED.
2. MAXIMUM SLOPE SHALL BE 3:1.
3. ACCESSIBLE ROUTE, CHANGE IN DIRECTION ON THE ACCESSIBLE ROUTE. ACCESSIBLE RAMPS AND LANDINGS SHALL COMPLY WITH THE MOST CURRENT CBC CHAPTER 11B REQUIREMENTS.

LEGEND

— · — PROPOSED DAYLIGHT LINE

KEY NOTES

1. PATH OF TRAVEL: 2% MAX CROSS SLOPE AND 5% MAX SLOPE IN DIRECTION OF TRAVEL
2. RAMP: 2% MAX CROSS SLOPE AND 8.33% MAX SLOPE IN DIRECTION OF TRAVEL
3. 2% MAX IN ANY DIRECTION
4. DAYLIGHT LINE
5. DRAINAGE SWALE

Know what's below. Call before you dig.

0' 5' 10' 20'
SCALE: 1"=10'

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- STRUCTURAL
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- SURVEYING
- PLANNING
- ATHLETIC FACILITY DESIGN
- GEOTECHNICAL

REVISIONS
No. Date Description

PROJECT

MARK TWAIN ELEMENTARY SCHOOL

4914 58TH STREET
SACRAMENTO, CA
95820
DSA# 02-123992

REGISTERED PROFESSIONAL ENGINEER
PAUL J. SCHNEIDER
No. 62498
Exp. 08/30/27
CIVIL
STATE OF CALIFORNIA
DATE SIGNED: 01/26/26

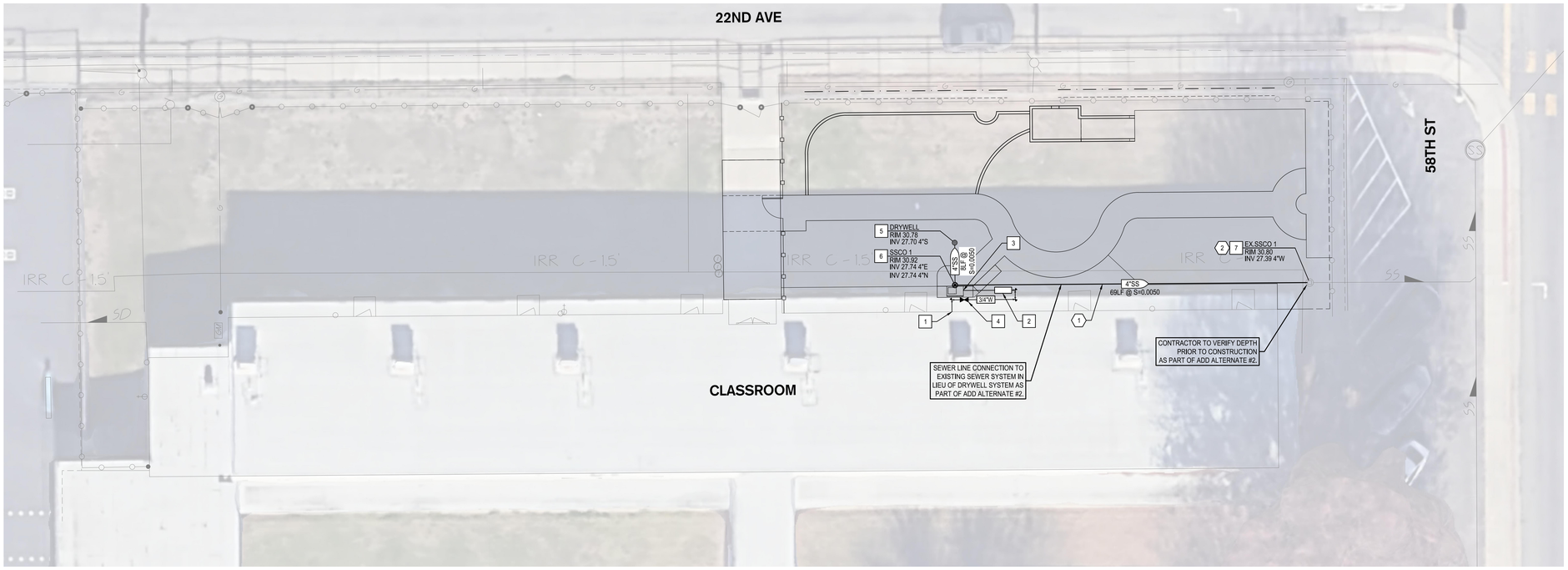
SHEET TITLE

GRADING PLAN

Proj Mgr	PJS
Drawn by	RRG
Date	01/26/2026
Job No.	25206
Sheet:	C4.0

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GENERAL UTILITY NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY OF THE EXISTING UTILITIES, INCLUDING, BUT NOT LIMITED TO UTILITY BOXES, THAT ARE FOUND TO BE BROKEN, CRACKED, OR OTHERWISE DAMAGED.
2. ALL UTILITY STRUCTURES SHALL BE PROTECTED AND ADJUSTED TO FINISH GRADE, UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL VERIFY INVERTS PRIOR TO CONSTRUCTION. INFORM ENGINEER OF RECORD IMMEDIATELY OF CONFLICTS.
4. CONTRACTOR TO COORDINATE UTILITY WORK WITH DISTRICT PRIOR TO CONSTRUCTION.
5. WATER PIPES GREATER THAN 4" IN DIAMETER SHALL BE CONSTRUCTED WITH THRUST BLOCK OR MECHANICALLY RESTRAINED JOINT AT ALL TEES, ELBOWS, AND BENDS (VERTICAL OR HORIZONTAL).
6. UTILITIES SHALL NOT UNDERMINE EXISTING BUILDING FOOTINGS AND REMAIN OUT OF THE ZONE OF INFLUENCE , SEE DETAIL 5 ON SHEET C1.0.

KEY NOTES

1. CONNECT TO EXISTING WATER LINE AT PREVIOUS HOSE BIB ALONG BUILDING EDGE UNDERGROUND PIPE AND INSTALL PIPE INSULATION ON EXPOSED PIPE
2. INSTALL 3/4" BACKFLOW PREVENTER PER DETAIL 11 ON SHEET C7.0
3. CONNECT WATER LINE TO PROPOSED KITCHEN PER MANUFACTURER REQUIREMENTS
4. INSTALL GATE VALVE WITH CHRISTY G08 TRAFFIC RATED BOX OR APPROVED EQUAL.
5. INSTALL NDS FLO-WELL DRY WELL PER MANUFACTURER'S REQUIREMENTS OR APPROVED EQUAL. CONSTRUCT WITH SURFACE DRAIN INLET WITH GRATE, POROUS FILTER FABRIC WRAP FOR FLO-WELL PER MANUFACTURER, AND MINIMUM OF 8" CLASS II PERMEABLE ROCK WRAPPED WITH MIRAFI 140N FILTER FABRIC OR APPROVED EQUAL TO PREVENT NATIVE SOIL INTRUSION
6. INSTALL SANITARY SEWER CLEANOUT PER DETAIL 2 ON SHEET C7.0
7. ADJUST EXISTING SANITARY SEWER CLEANOUT TO GRADE

ADD ALTERNATE #2 KEY NOTES

1. INSTALL SANITARY 4" SANITARY SEWER LINE
2. CONNECT TO EXISTING SANITARY SEWER CLEANOUT. CONTRACTOR TO VERIFY EXISTING INVIERT ELEVATION AND NOTIFY ENGINEER OF ANY DISCREPANCIES

Know what's **below.**
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SCALE: 1"=10'

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REVISIONS
No. Date Description

PROJECT

MARK TWAIN ELEMENTARY SCHOOL

4914 58TH STREET
SACRAMENTO, CA
95820
DSA# 02-123992

REGISTERED PROFESSIONAL ENGINEER
RANDALL J. SCHNEIDER
No. 62498
Exp. 08/30/27
CIVIL
STATE OF CALIFORNIA

DATE SIGNED: 01/26/26

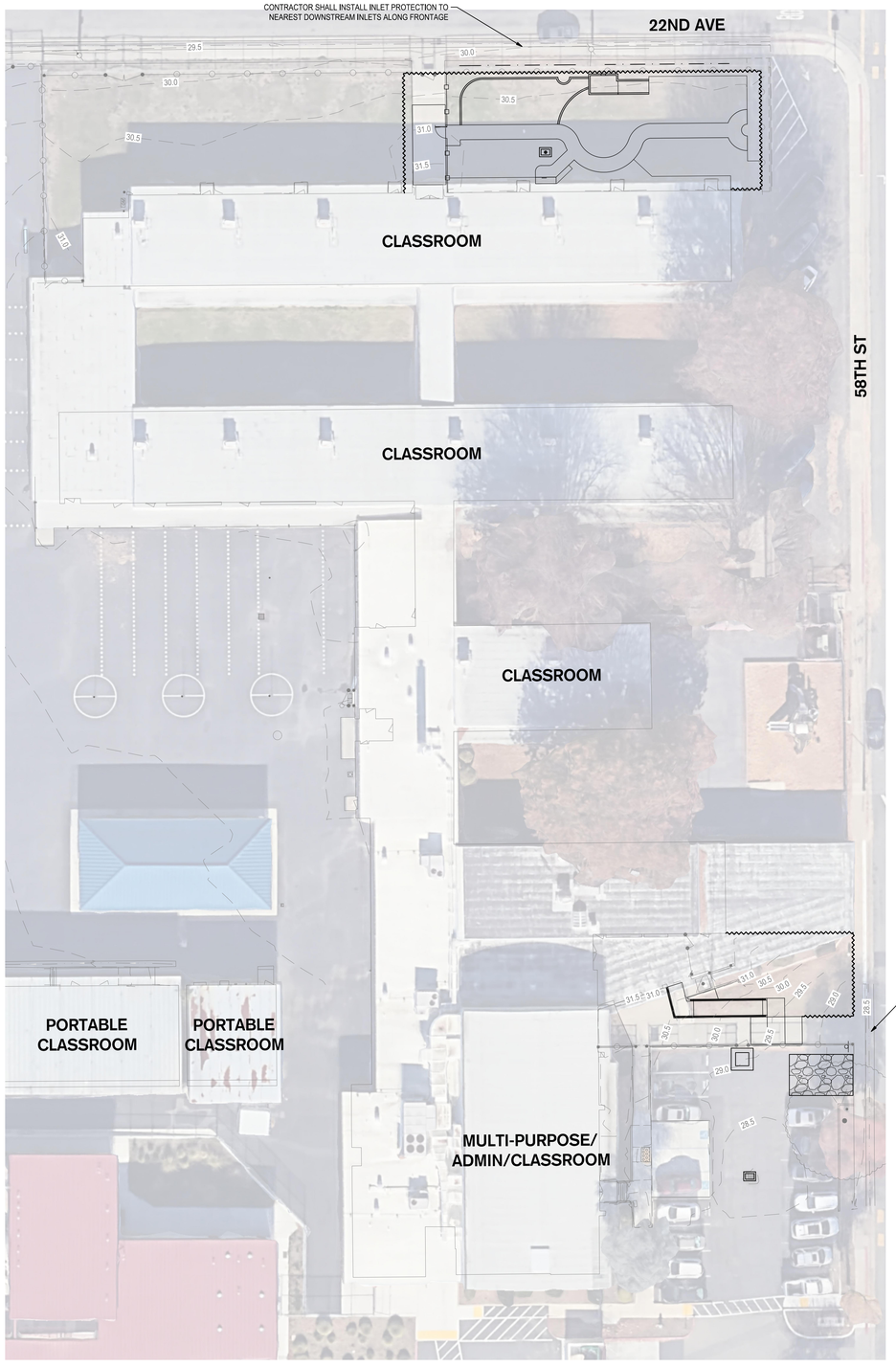
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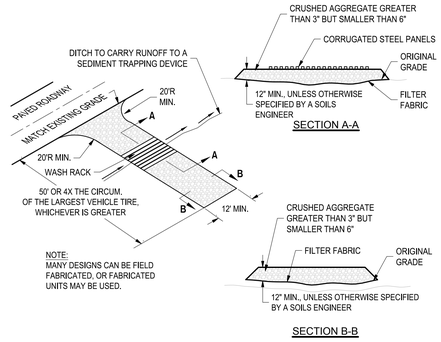
UTILITY PLAN

Proj Mgr	PJS
Drawn by	RRG
Date	01/26/2026
Job No.	25206

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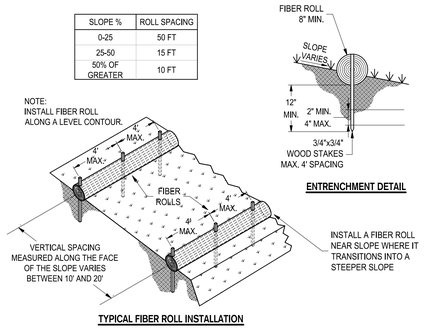
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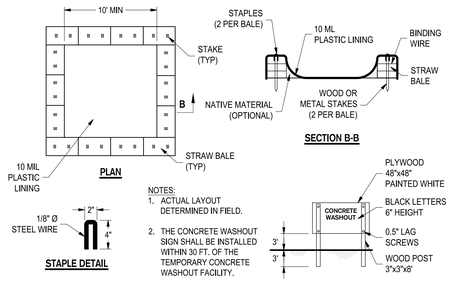
1 STABILIZED CONSTRUCTION ENTRANCE/OUTLET TIRE WASH

SCALE: NTS



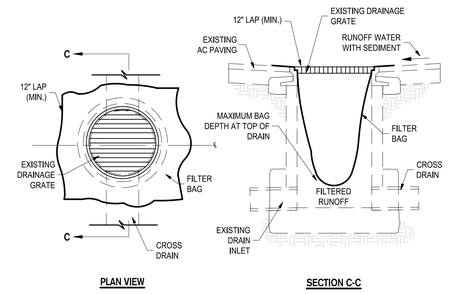
2 FIBER ROLLS

SCALE: NTS



3 CONCRETE WASHOUT

SCALE: NTS



4 SEDIMENT FILTER AT DROP INLET

SCALE: NTS

EROSION CONTROL GENERAL NOTES

1. PLANS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO SHOW ALL OFFSETS. THE SITE IS DYNAMIC AND CHANGES ON A DAILY BASIS, CHANGES SHOULD BE MADE ACCORDING TO EXISTING CONDITIONS. BECAUSE IT IS IMPOSSIBLE TO PREDICT ALL POSSIBLE SITUATIONS, CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICES TO ENSURE QUALITY CONTROL.
2. THE CONTRACTOR SHALL REVIEW THE CURRENT STORM WATER POLLUTION PREVENTION PLAN (SWPPP), IT IS THE CONTRACTORS SOLE RESPONSIBILITY FOR CONDUCTING HIS/HER OPERATIONS IN ADHERANCE TO THE SWPPP. THE CONTRACTOR IS RESPONSIBLE FOR ANY FINES, DELAYS, AND/OR DAMAGES RESULTING FROM ANY STATE WATER QUALITY CONTROL BOARD SANCTIONS CAUSED BY THE OPERATION OF THE CONTRACTOR OF HIS/HER SUBCONTRACTORS.
3. THE FOLLOWING PLANS ARE ACCURATE FOR EROSION CONTROL PURPOSES ONLY. THE CONTRACTOR SHALL FOLLOW THESE PLANS UNLESS FIELD CONDITIONS DICTATE MODIFICATION, IF MODIFICATION IS NECESSARY, A SWPPP AMENDMENT MUST BE DONE. THIS MAY REQUIRE MODIFICATION TO THESE DRAWINGS AND ENGINEER CONCURRENCE.
4. INSPECT AND REPAIR FILTERS AFTER EACH 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. SEDIMENT AND GRAVEL SHALL BE IMMEDIATELY REMOVED FROM PAVEMENT OF ROAD.
5. UNFINISHED AND DISTURBED ARE TO BE PROTECTED WITH AN APPLICATION OF BLOWN STRAW AND ORGANIC BINDER.

ITEM	LB/ACRE
STRAW	4,000
ORGANIC BINDER	200

6. ALTERNATE INLET PROTECTION SHALL BE USED ON ROADS OPEN TO THE PUBLIC IF ANY HAZARDOUS MATERIALS OR WASTES WHICH HAVE BEEN TREATED, STORED, DISPOSED, SPILLED, OR LEAKED IN SIGNIFICANT QUANTITIES ONTO THE CONSTRUCTION SITE, THE CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE THEM FROM THE SITE AND DISPOSE OF PROPERLY.
7. CHLORINATED OR DECHLORINATED WATER SHALL NOT BE DISCHARGED INTO THE STORM DRAIN SYSTEM. THE CONTRACTOR MAY DISPOSE THIS WATER INTO THE SANITARY SEWER SYSTEM UPON APPROVAL BY THE GOVERNING AGENCY.
8. THE CONTRACTOR SHALL KEEP MAINTENANCE, INSPECTION, AND REPAIR PROCEDURES TO ENSURE THAT ALL GRADED SURFACES, WALLS, BERMS, DRAINAGE STRUCTURES, VEGETATION, EROSION AND SEDIMENT CONTROL MEASURES, AND OTHER CONTROLS ARE MAINTAINED IN GOOD AND EFFECTIVE CONDITION AND ARE PROMPTLY REPAIRED OR RESTORED WHEN NECESSARY. ANY DEWATERING WATER SHALL NOT BE DISCHARGED DIRECTLY INTO THE STORM WATER SYSTEM, AND SHALL NOT BE DISCHARGED INTO THE SEWER SYSTEM.
9. ALL DEWATERING WATER MUST BE CHANNELED THROUGH AN APPROVED SEDIMENT BARRIER PRIOR TO THE WATER ENTERING THE STORM SYSTEM.
10. PAVEMENT CLEANING- FLUSHING OF STREETS/ PARKING LOTS TO REMOVE DIRT AND CONSTRUCTION DEBRIS IS PROHIBITED UNLESS PROPER SEDIMENT CONTROLS ARE USED. PREFERABLY, AREAS REQUIRING CLEANING SHOULD BE SWEPT.
11. ALL STOCKPILES OF MATERIALS THAT ARE NOT GOING TO BE USED FOR 14 DAYS SHALL BE COVERED.
12. CONTRACTOR TO USE BEST MANAGEMENT PRACTICES (BMPs) THROUGHOUT CONSTRUCTION. USE ALL BMPs THAT APPLY TO THE PROJECT, INCLUDING BUT NOT LIMITED TO THE FOLLOWING BMPs:
    - A. DRAIN INLET PROTECTION - CALIFORNIA STORMWATER BMP HANDBOOK SECTION SE-10
    - B. SOLID WASTE MANAGEMENT - CALIFORNIA STORMWATER BMP HANDBOOK SECTION WM-5
    - C. MATERIAL STORAGE - CALIFORNIA STORMWATER BMP HANDBOOK SECTION WM-1
    - D. PAVING - CALIFORNIA STORMWATER BMP HANDBOOK SECTION NS-3
    - E. DUST CONTROL, SEDIMENT CONTROL, EROSION CONTROL AND CONCRETE WASHOUT AREAS - SHOWN ON THIS SHEET WITH DETAILS
13. CONTRACTOR SHALL INSTALL DRAIN INLET PROTECTION FOR ALL CATCH BASINS LOCATED IN THE VICINITY OF WORK. THIS INCLUDES ANY CATCH BASINS LOCATED IN THE PUBLIC RIGHT-OF-WAY, AS WELL AS ANY ON-SITE CATCH BASINS LOCATED IN THE PARKING LOT.
14. CONTRACTOR SHALL ENSURE THAT CONSTRUCTION ACTIVITIES DO NOT DEPOSIT SEDIMENT ONTO THE PARKING LOT OR PUBLIC ROADWAY, SIDEWALK, AND GUTTERS.
15. CONTRACTOR SHALL USE STREET SWEEPING OR OTHER DRY-SWEEPING METHOD, AS NECESSARY, TO REMOVE CONSTRICTION-RELATED SEDIMENTS FROM PAVEMENT IN PROJECT AREA PARKING LOT AND PUBLIC SIDEWALKS, GUTTERS, AND ROADWAY.
16. CONTRACTOR SHALL SCHEDULE WORK FOR DRY-WEATHER DAYS WHEN NO RAIN IS IN THE IMMEDIATE FORECAST.

EROSION CONTROL LEGEND

SYMBOL	DESCRIPTION
	FIBER ROLLED WATTLE, SEE DETAIL 2 THIS SHEET
	SEDIMENT FILTER AT DROP INLET, SEE DETAIL 4 THIS SHEET
	STABILIZED CONSTRUCTION ENTRANCE, CONTRACTOR TO DETERMINE SIZE & LOCATION, SEE DETAIL 1 THIS SHEET
	CONCRETE WASHOUT, CONTRACTOR TO DETERMINE LOCATION, SEE DETAIL 3 THIS SHEET

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REVISIONS
No. Date Description

PROJECT

MARK TWAIN ELEMENTARY SCHOOL

4914 58TH STREET
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DSA# 02-123992

REGISTERED PROFESSIONAL ENGINEER PAUL J. SCHNEIDER No. 62488 Exp. 08/30/27 CIVIL STATE OF CALIFORNIA

DATE SIGNED: 01/26/26

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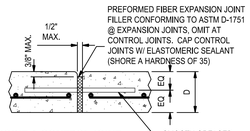
EROSION CONTROL PLAN

Proj Mgr	PJS
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Date	01/26/2026
Job No.	25206
Sheet:	C6.0

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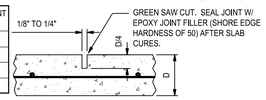
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DOWEL SIZE & SPACING			
SLAB DEPTH	DIAMETER	LENGTH	SPACING
4"	5/8"	12"	18" O.C.
6"	3/4"	18"	18" O.C.
8"	1"	24"	18" O.C.
10"	1"	24"	12" O.C.



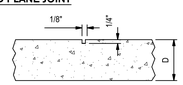
EXPANSION JOINT & CONTROL JOINT

SLAB THICKNESS	W/J SPACING (EACH WAY)	CONTROL JOINT SPACING
4"	8' O.C. MAX.	30' O.C. MAX.
6"	12' O.C. MAX.	36' O.C. MAX.
8"	16' O.C. MAX.	40' O.C. MAX.
10"	N/A	40' O.C. MAX.



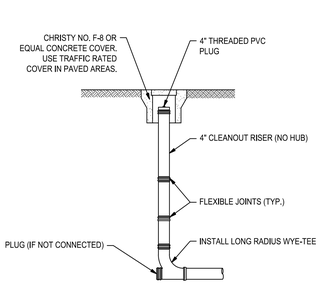
WEAKENED PLANE JOINT

NOTE:
SCORE JOINT SPACING SHALL BE PLACED 5'-0" O.C. UNLESS OTHERWISE NOTED ON PLANS

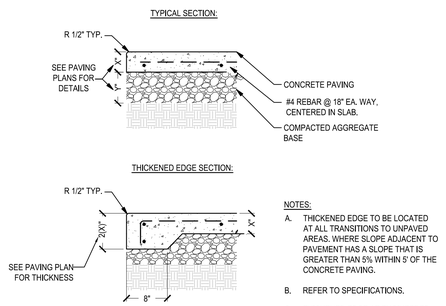


SCORE LINE

1 TYPICAL CONCRETE JOINT DETAILS
NO SCALE

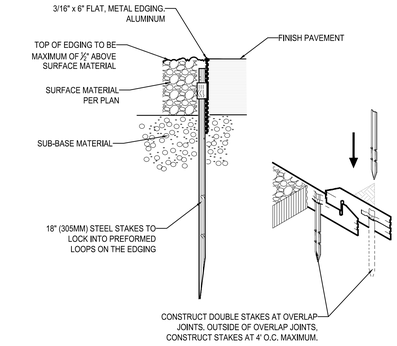


2 CLEANOUT
NO SCALE

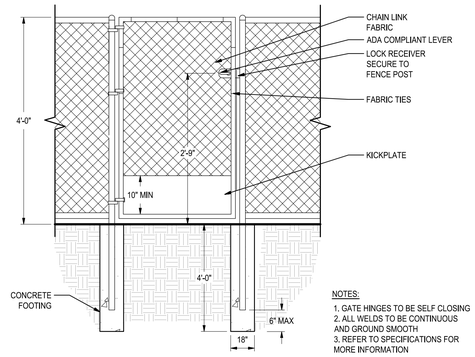


NOTES:
A. THICKENED EDGE TO BE LOCATED AT ALL TRANSITIONS TO UNPAVED AREAS. WHERE SLOPE ADJACENT TO PAVEMENT HAS A SLOPE THAT IS GREATER THAN 5% WITHIN 5' OF THE CONCRETE PAVING.
B. REFER TO SPECIFICATIONS.
C. THICKENED EDGE AT ENGINEERED WOOD FIBER, SEE DETAIL 13 THIS SHEET.

3 CONCRETE PAVING
NO SCALE

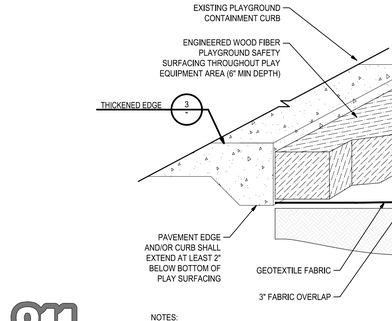


4 METAL EDGING
NO SCALE

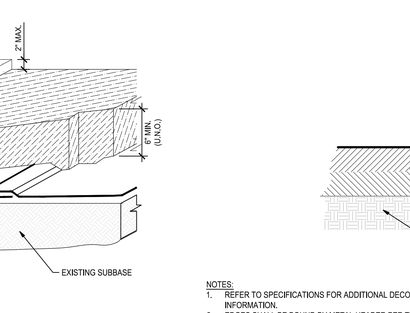


NOTES:
1. GATE HINGES TO BE SELF CLOSING
2. ALL WELDS TO BE CONTINUOUS AND GROUND SMOOTH
3. REFER TO SPECIFICATIONS FOR MORE INFORMATION

5 BLACK VINYL COATED 4' HIGH CHAIN LINK FENCE PEDESTRIAN GATE
NO SCALE

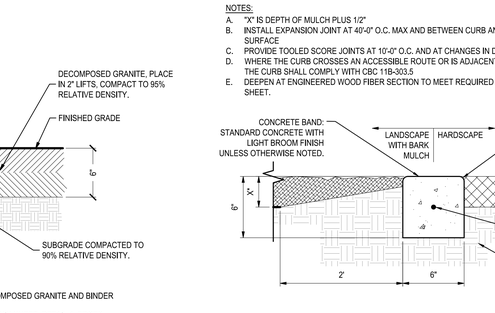


6 6" VERTICAL CURB
NO SCALE

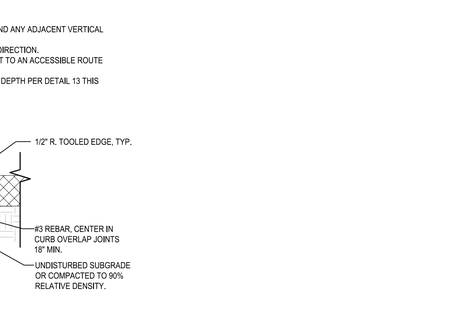


NOTES:
1. RAMP LONG SLOPE SHALL BE 1:12 MAX
2. RAMP CROSS-SLOPE SHALL BE 2% MAX
3. RAMP LANDINGS SHALL BE 2% MAX IN ANY DIRECTION
4. HANDRAILS SHALL BE PAINTED TUBE STEEL

7 ACCESSIBLE RAMP
NOT TO SCALE

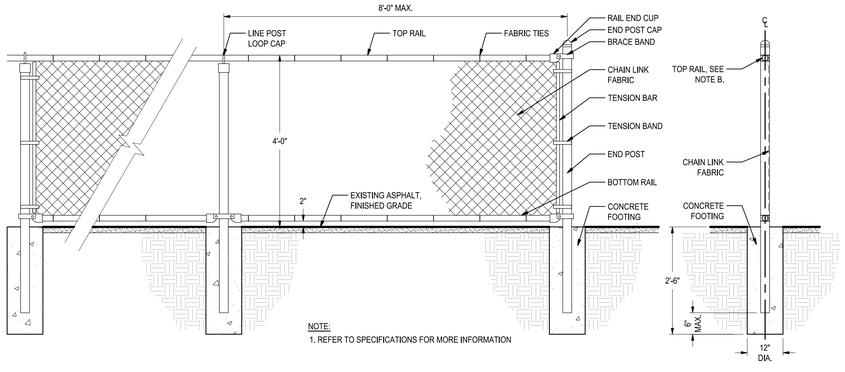


8 RAMP CURB DETAIL
NOT TO SCALE



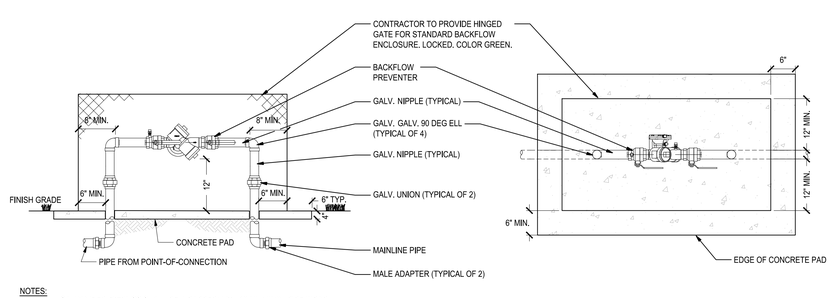
9 HAND/ GUARD RAIL REINFORCING
NOT TO SCALE

10 BLACK VINYL COATED 4' HIGH CHAIN LINK FENCE
NO SCALE



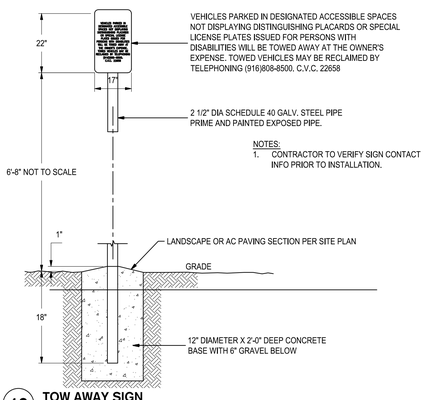
NOTE:
1. REFER TO SPECIFICATIONS FOR MORE INFORMATION

11 BACKFLOW PREVENTER
NO SCALE



NOTES:
1. ALL GALVANIZED FITTINGS SHALL BE WRAPPED WITH 10 MIL VINYL PIPE WRAP.
2. INSTALL WEATHER BLANKET AROUND BACKFLOW PREVENTER.
3. BACKFLOW ASSEMBLIES SMALLER THAN 2.5" SHALL BE COVERED WITH AN INSULATION BLANKET, MIN R-13, GREEN, WEATHERGUARD OR EQUAL AND PROTECTED BY A LOCKABLE WIRE CAGE ENCLOSURE FASTENED TO THE PAD. THE ENCLOSURE SHALL BE HINGED, POWDER COATED GREEN AND SECURED WITH A LOCKED, GALVANIZED CHAIN SUCH THE LOCK CAN RELEASE THE CHAIN.
4. BACKFLOW ASSEMBLIES 2.5" AND LARGER SHALL BE SECURED BY A LOCKED, GALVANIZED, STRAIGHT LINK CHAIN THAT LOCKS THE VALVE AND HANDWHEELS IN THE OPEN POSITION AND LOCK CAN RELEASE THE CHAIN.

12 TOW AWAY SIGN
NO SCALE



NOTES:
1. CONTRACTOR TO VERIFY SIGN CONTACT INFO PRIOR TO INSTALLATION.

NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. DO NOT SCALE DRAWING.

13 ENGINEERED WOOD FIBER
NO SCALE

NOTES:
1. REFER TO SPECIFICATIONS FOR ADDITIONAL DECOMPOSED GRANITE AND BINDER INFORMATION.
2. EDGES SHALL BE BOUND BY METAL HEADER PER THIS SHEET, DETAIL 4. EDGES ABUTTING CONCRETE DO NOT REQUIRE HEADER.

14 DECOMPOSED GRANITE
NO SCALE

NOTES:
A. "X" IS DEPTH OF MULCH PLUS 1/2"
B. INSTALL EXPANSION JOINT AT 40'-0" O.C. MAX AND BETWEEN CURB AND ANY ADJACENT VERTICAL SURFACE
C. PROVIDE TOOLED SCORE JOINTS AT 10'-0" O.C. AND AT CHANGES IN DIRECTION.
D. WHERE THE CURB CROSSES AN ACCESSIBLE ROUTE OR IS ADJACENT TO AN ACCESSIBLE ROUTE THE CURB SHALL COMPLY WITH CBC 11B-303.5
E. DEEPEN AT ENGINEERED WOOD FIBER SECTION TO MEET REQUIRED DEPTH PER DETAIL 13 THIS SHEET.

15 6" FLUSH CURB
NO SCALE

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

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REVISIONS

No.	Date	Description

PROJECT

MARK TWAIN ELEMENTARY SCHOOL

4914 58TH STREET
SACRAMENTO, CA
95820
DSA# 02-123992

REGISTERED PROFESSIONAL ENGINEER
RAY J. SCHNEIDER
No. 62498
Exp. 08/30/27
CIVIL
STATE OF CALIFORNIA

DATE SIGNED: 01/26/26

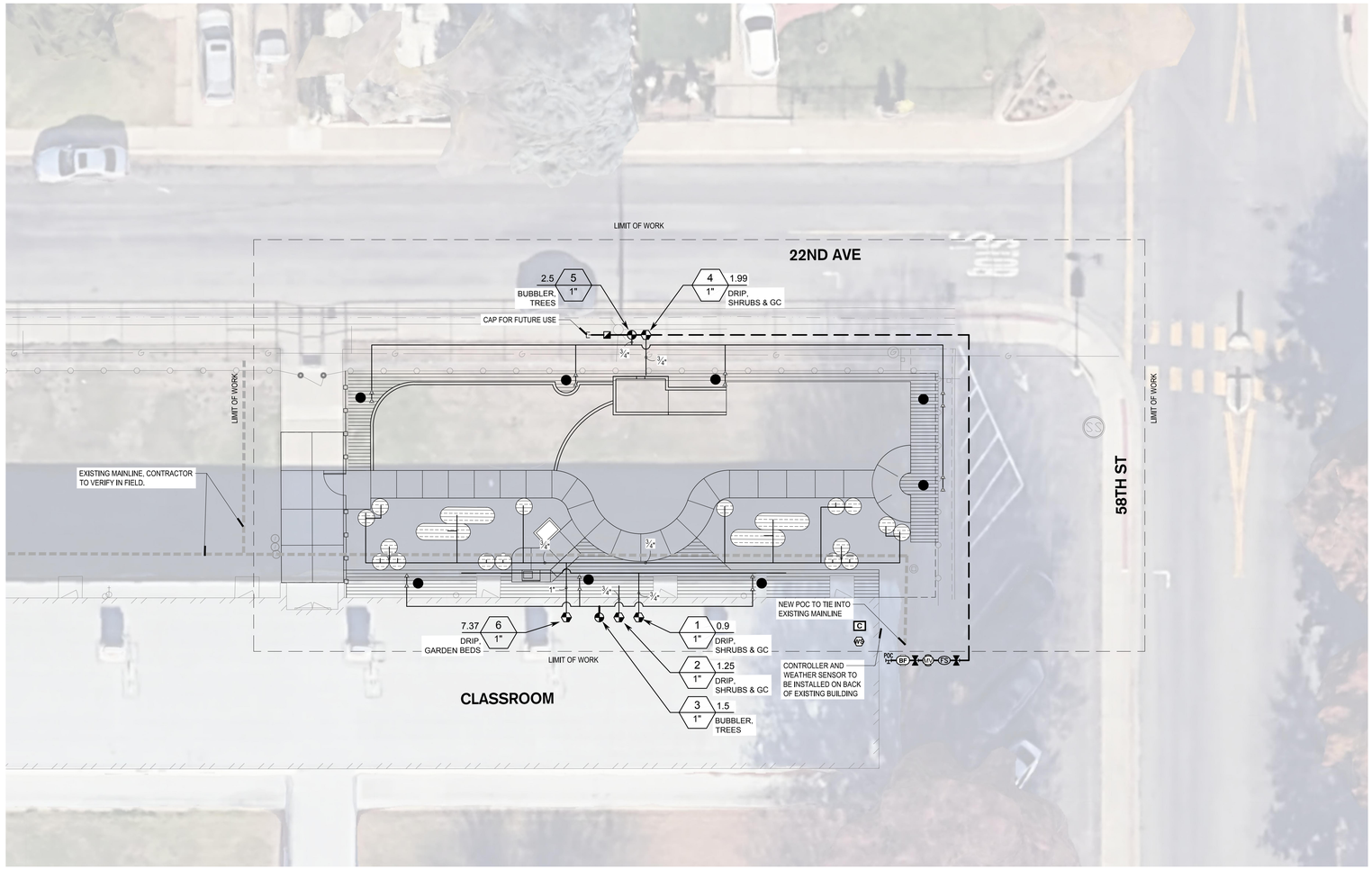
SHEET TITLE

DETAIL

Proj Mgr	PJS
Drawn by	RRG
Date	01/26/2026
Job No.	25206

Sheet:
C7.0
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ACTUAL LOCATION OF MAINLINE, INSTALL 1' AT BACK OF PLANTER AND IN THE LIMITS OF CONSTRUCTION.

0' 5' 10' 20'

SCALE: 1"=10'

IRRIGATION COMPLIANCE

THE IRRIGATION SYSTEM IS COMPLIANT WITH THE CRITERIA OF THE 2025 WATER EFFICIENT LANDSCAPE ORDINANCE AND THE REQUIREMENTS FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE DESIGN PLAN.

NEW IRRIGATION MAINLINE:
2" PVC SCHEDULE 40
ACTUAL LOCATION TO BE INSTALLED

SLEEVE

N.T.S.

NOTES

1. CONTRACTOR SHALL PROVIDE SEPARATE SLEEVES FOR MAINLINE, WIRES AND LATERALS. NO SHARED SLEEVES.
2. THE IRRIGATION SYSTEM SHALL COMPLY WITH THE CRITERIA OF THE 2025 WATER EFFICIENT LANDSCAPE ORDINANCE AND THE REQUIREMENTS FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE DESIGN PLAN.

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

IRRIGATION LEGEND

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
0.25	Hunter RZWS-36-CV 36in. long RZWS with installed .25 gpm or .50 gpm bubbler options, Check Valve, 1/2in. swing joint for connection to 1/2in. pipe	16	20

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
F	Hunter PLD-BV Manual flush/shut off valve, barbed insert. Typically installed in 10in. box, with adequate blank tubing to extend valve out of valve box. Use with HDL or other 3/4in. dripline.	3
A	Hunter PLD-AVR PLD-AVR allows for air to escape a RESIDENTIAL drip irrigation system to prevent blockage and water hammering. 1/2in. MPT connection with 80 PSI maximum rating.	3
O	Hunter ECO4D-12 ECO-ID: 1/2in. FPT connection with 15 psi - 100 psi operating pressure. Specify with Hunter SJ swing joint.	3
	Area to Receive Dripline Hunter HDL-06-18-CV HDL-06-18-CV: Hunter Dripline w/ 0.6 GPH emitters at 18" O.C. Check valve, dark brown tubing with gray striping. Dripline laterals spaced at 18" apart, with emitters offset for triangular pattern. Install with Hunter PLD barbed or PLD-LOC fittings.	621.8 lf
	Area to Receive Dripline Hunter MLD-05-06 0.5 GPH Brown Mini Landscape Dripline. Emitters at 6" O.C. Dripline laterals spaced at 6" apart. Specify with Hunter QB 1/4in. fittings.	438.6 lf

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Drip Remote Control Valve Hunter ICV-G-FS with HY-100 Filter. 1in., 1-1/2in., 2in., and 3in. Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use. With Filter Sentry.	4
	Remote Control Valve Hunter ICV-G-FS 1in., 1-1/2in., 2in., and 3in, Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use. With Filter Sentry.	2
	Rain Bird 33-DRC 3/4in, Brass Quick-Coupling Valve, with Corrosion-Resistant Stainless Steel Spring, Thermoplastic Rubber Cover, Double Track Key Lug, and 2-Piece Body.	1
	Nibco T-113-K Class 125 bronze gate shut off valve with cross handle, same size as mainline pipe diameter at valve location. Size Range - 1/4in. - 3in.	2
MV	Superior 3100 1-1/2" Normally Open Brass Master Valve that Provides Dirty Water Protection. Available in 3/4in., 1in., 1-1/4in., 1-1/2in., 2in., 2-1/2in. and 3in..	1
BF	Wilkins by Zurn Elkay Water Solutions 350XL 1-1/2" Double Check Backflow Preventer, lead-free w/ EZSwap 3/4in. - 2in.	1
C	Hunter I2C-1600-M 16 Station Outdoor Modular Controller. With one ICM-800 Module. Commercial Use. Metal Cabinet.	1
WS	Hunter WSS-SEN Wireless Solar, rain freeze sensor with outdoor interface, connects to Hunter X-Core and ACC Controllers, install as noted. Includes gutter mount bracket. Module not included.	1
FS	Creative Sensor Technology ELF-T10-N01 Enhanced Low Flow Sensor with 2 wire digital frequency output compatible w/all irrigation controllers except Hydrawise, see below.1in. male NPT threaded connection, flow range between .20 GPM-20 GPM	1
	Cap for future use Cap at the mainline or lateral line for future use. The pressure and flow provided to that location are indicated next to the cap symbol.	1
POC	Point of Connection 1 1/2" New Point of Connection, to tie into existing mainline, Contractor to verify in field.	1
	Irrigation Lateral Line: PVC Schedule 40	513.7 lf
	Irrigation Mainline: PVC Schedule 40 New 1 1/2" Mainline to tie into existing 1 1/2" Mainline. Contractor to verify in Field.	142.3 lf
#" #▸ #"	Valve Callout Valve Number Valve Flow Valve Size	
	Existing 1 $\frac{1}{2}$" Mainline	
	Proposed Tree Locations	

GENERAL IRRIGATION NOTES

1. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH LOCAL AND STATE STANDARDS.
2. THE IRRIGATION SYSTEM IS DESIGNED TO OPERATE SINGLE VALVES AT 20 PSI FOR BUBBLER AND DRIPLINE, 30 PSI FOR SPRAY ROTATORS, AND WITH A MAXIMUM FLOW RATE OF 30 GPM. THE CONTRACTOR IS TO PERFORM A STATIC AND DYNAMIC PRESSURE TEST; VERIFY AT LEAST 65 PSI STATIC AT POINT OF CONNECTION. REPORT FINDINGS TO THE LANDSCAPE ARCHITECT. IF THE CONTRACTOR FAILS TO DO SO, THE CONTRACTOR WILL TAKE FULL RESPONSIBILITY FOR ANY NECESSARY REVISIONS.
3. THE INTENT OF THIS IRRIGATION SYSTEM IS TO PROVIDE THE MINIMUM AMOUNT OF WATER REQUIRED TO SUSTAIN GOOD PLANT HEALTH. CONTRACTOR SHALL GUARANTEE 100% COVERAGE OF SYSTEM. QUANTITIES (IF SHOWN) ARE FOR REFERENCE ONLY.
4. SPLICING OF 24 VOLT WIRES IS NOT PERMITTED EXCEPT IN VALVE BOXES. LEAVE A 36" LONG, 6" DIAMETER COIL OF EXCESS WIRE AT EACH SPLICE AND A 36" LONG EXPANSION LOOP EVERY 100 FEET ALONG WIRE RUN. TAPE WIRE TOGETHER EVERY TEN FEET. TAPING WIRES IS NOT REQUIRED INSIDE SLEEVES. RUN WIRE FROM EACH REMOTE CONTROL VALVE TO THE CONTROLLER. ALL CONTROLLER WIRES TO BE LABELED AT VALVES AND CONTROLLER.
5. PLASTIC VALVE BOX LIDS TO BE T-STYLE NON-HINGED COVERS. BOX BODY SHALL HAVE KNOCK-OUTS WITH BOLT-DOWN LIDS.
6. INSTALL NEW REMOTE CONTROL VALVE BOXES 12" FROM WALK, CURB, LAWN, HEADER BOARD, BUILDING, OR LANDSCAPE FEATURE. AT MULTIPLE VALVE BOX GROUPS, EACH BOXSHALL BE AN EQUAL DISTANCE FROM THE WALK, CURB, LAWN, ETC. AND EACH BOX SHALL BE 12" APART.
7. SHORT SIDE OF RECTANGULAR VALVE BOXES SHALL BE PARALLEL TO WALK, CURB, LAWN, ETC.
8. THIS PLAN IS DIAGRAMMATIC. ALL PIPING, VALVES, ETC. SHOWN WITHIN PAVED AREAS IS FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED IN PLANTING AREAS WHERE POSSIBLE. AVOID ANY CONFLICTS BETWEEN THE IRRIGATION SYSTEM AND PLANTING AND ARCHITECTURAL FEATURES.
9. THE CONTRACTOR SHALL FLUSH ALL LINES AND ADJUST ALL HEADS FOR MAXIMUM PERFORMANCE AND TO MINIMIZE OVERSPRAY ON TO WALKS, WALLS, FENCES, DRIVES, AND BUILDINGS AS MUCH AS POSSIBLE. THIS SHALL INCLUDE SELECTING THE BEST DEGREE OF ARC TO FIT EXISTING CONDITIONS AND REDUCE RADIUS AT EACH HEAD TO PROVIDE UNIFORM HEAD TO HEAD COVERAGE.
10. COMMON WIRE TO BE U.L. LISTED DIRECT BURY #12 GAUGE, WHITE; ALL CONTROL WIRE TO BE U.L. LISTED DIRECT BURY #14 GAUGE WIRE, RED; UNLESS NOTED OTHERWISE.
11. CONTRACTOR SHALL LABEL VALVE BOX LIDS PER STANDARDS. REMOTE CONTROL VALVES SHALL BE LABELED WITH STATION NUMBER, QUICK COUPLERS WITH "QCV" AND GATE VALVES WITH "GV".
12. CONTRACTOR SHALL PROVIDE TWO (2) COPIES OF 11x17 LAMINATED CONTROLLER CHARTS PRIOR TO FINAL ACCEPTANCE BY OWNER. CONTROLLER CHARTS SHALL BE COLOR-CODED INDICATING EACH VALVE AND THE SYSTEM IT OPERATES. CHARTS SHALL BE REDUCTIONS OF THE IRRIGATION PLANS.
13. ALL PVC SLEEVES UNDER PAVEMENT AND ROADWAYS TO BE SCH. 40. PVC, TWICE THE DIAMETER OF PIPE OR WIRE BUNDLE THAT WILL PASS THROUGH SLEEVE.
14. INSTALL CHECK VALVES OR IN-HEAD CHECK VALVES TO ELIMINATE LOW HEAD DRAINAGE WHERE NECESSARY.
15. SUBSTITUTION FOR IRRIGATION EQUIPMENT SPECIFIED ON THE PLANS MAY BE DONE ONLY WITH THE APPROVAL OF THE OWNER REPRESENTATIVE.
16. PROVIDE A MINIMUM 24" COVER OVER ALL MAINLINE AND LATERAL PIPING UNDER HARDSCAPE AND 18" COVER OVER ALL MAINLINE AND LATRAL LINES UNDER LANDSCAPE.
17. CONTRACTOR SHALL NOT WILLFULLY INSTALL THE SYSTEM AS DESIGNED WHEN IT IS OBVIOUS IN THE FIELD THAT OBSTRUCTIONS OR GRADE DIFFERENCES EXIST THAT WERE NOT IDENTIFIED IN THE DRAWINGS. SUCH CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE. OTHERWISE, THE CONTRACTOR MUST ASSUME FULL RESPONSIBILITY FOR ANY NECESSARY REVISIONS.
18. ALL WIRE CONNECTIONS TO BE MADE IN VALVE BOX WITH WATER TIGHT CONNECTORS PER THE MANUFACTURER'S DIRECTIONS. WIRE SPLICES SHALL NOT BE PERMITTED UNLESS APPROVED BY THE OWNER'S REPRESENTATIVE. WIRE SPLICE LOCATIONS MUST BE INDICATED ON "AS-BUILTS" PER THE SPECIFICATIONS.
19. ALL PIPE 2 1/2" AND SMALLER TO BE SOLVENT WELD AND ALL PIPE 3" AND OVER TO BE RING-TITE WITH JOINT RESTRAINTS.
20. CONTRACTOR TO VERIFY LOCATIONS OF ALL ON-SITE UTILITIES. RESTORATION OF DAMAGED UTILITIES SHALL BE MADE AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
21. QUANTITIES, IF SHOWN, ARE FOR REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL EQUIPMENT REQUIRED FOR FULL COVERAGE OF ALL PLANTING AREAS.

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- GEOTECHNICAL

REVISIONS

No.	Date	Description

PROJECT

MARK TWAIN ELEMENTARY SCHOOL

4914 58TH STREET
SACRAMENTO, CA
95820
DSA# 02-123992

ALEXIS BEL CASTILLO — No. 4836 — Signature Exp. 05/30/27 — STATE OF CALIFORNIA

DATE SIGNED: 01/26/26

SHEET TITLE

IRRIGATION PLAN

Proj Mgr	TDC
Drawn by	SLT
Date	01/26/2026
Job No.	25206

Sheet:
L1.0
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REFERENCE DATA

Nearest data location:	Sacramento

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Reference Eto (in./mo.)	1.00	1.60	3.40	4.10	6.50	7.50	8.10	7.10	5.20	3.40	1.50	1.00
Historical average precipitation	3.75	3.27	2.39	1.48	0.46	0.13	0.03	0.06	0.21	0.92	2.03	3.19
Effective precipitation (historical average -0.2" * 75%)	2.66	2.30	1.64	0.96	0.20	0.00	0.00	0.00	0.01	0.54	1.37	2.24
Base required irrigation (in./mo.)	**0.00**	**0.00**	**1.76**	**3.14**	**6.31**	**7.50**	**8.10**	**7.10**	**5.19**	**2.86**	**0.13**	**0.00**

HYDROZONE INFORMATION TABLE

Hydrozone data summary

Zone	Description	Ks	Kd	Kmc	KL	Irr Type	IE	PR	Soil Type	BIR	AW	RZ	PAW	MAD	AD
1	DRIPLINE-SHRUB	0.2	1.0	1.0	0.65	Drip	0.81	0.50	Silt	0.15	0.17	36	6.12	40%	2.448
2	DRIPLINE-SHRUB	0.5	1.0	1.0	0.85	Drip	0.81	0.50	Silt	0.15	0.17	18	3.06	40%	1.224
3	BUBBLER-TREE	0.5	1.0	1.0	0.85	Bubbler	0.81	0.50	Silt	0.15	0.17	36	6.12	40%	2.448
4	DRIPLINE-SHRUB	0.2	1.0	1.0	0.85	Drip	0.81	0.50	Silt	0.15	0.17	18	3.06	40%	1.224
5	BUBBLER-TREE	0.5	1.0	1.0	0.85	Bubbler	0.81	0.50	Silt	0.15	0.17	18	3.06	40%	1.224
6	DRPLINE-GARDEN BEDS	0.2	1.0	1.0	0.65	Drip	0.81	0.50	Silt	0.15	0.17	18	3.06	40%	1.224

Model Ordinance Area Calculations

HA (sqft)	% of landscape area
257	21.84%
177	15.04%
75	6.37%
324	27.53%
125	10.62%
219	18.61%
Total: 1177	100%

REFERENCE SCHEDULE

Zone	Description	Temporary?		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	DRIPLINE-SHRUB	N	Irr. Days / Wk	0	0	1	3	3	4	4	4	4	1	1	0
			Cycles / Day	0	0	3	2	3	3	3	3	2	4	1	0
	Max. Minutes / Cycle 18		Min. / Cycle	0	0	13	12	16	15	15	13	15	16	3	0
2	DRIPLINE-SHRUB	N	Irr. Days / Wk	0	0	1	3	3	4	4	4	4	1	1	0
			Cycles / Day	0	0	3	2	4	4	4	3	3	5	1	0
	Max. Minutes / Cycle 18		Min. / Cycle	0	0	17	16	15	14	15	17	13	17	4	0
3	BUBBLER-TREE	N	Irr. Days / Wk	0	0	1	3	3	4	4	4	4	1	1	0
			Cycles / Day	0	0	3	2	4	4	4	3	3	5	1	0
	Max. Minutes / Cycle 18		Min. / Cycle	0	0	17	16	15	14	15	17	13	17	4	0
4	DRIPLINE-SHRUB	N	Irr. Days / Wk	0	0	1	3	3	4	4	4	4	1	1	0
			Cycles / Day	0	0	3	2	4	4	4	3	3	5	1	0
	Max. Minutes / Cycle 18		Min. / Cycle	0	0	17	16	15	14	15	17	13	17	4	0
5	BUBBLER-TREE	N	Irr. Days / Wk	0	0	1	3	3	4	4	4	4	1	1	0
			Cycles / Day	0	0	3	2	4	4	4	3	3	5	1	0
	Max. Minutes / Cycle 18		Min. / Cycle	0	0	17	16	15	14	15	17	13	17	4	0
6	DRPLINE-GARDEN BEDS	N	Irr. Days / Wk	0	0	1	3	3	4	4	4	4	1	1	0
			Cycles / Day	0	0	3	2	3	3	3	3	2	4	1	0
	Max. Minutes / Cycle 18		Min. / Cycle	0	0	13	12	16	15	15	13	15	16	3	0

Total Irrigation System Runtime (during establishment) Percentage adjustment: 150%

Maximum system runtime per irrigation day (single-station operation)	Hrs	0.0	0.0	45.9	28.8	55.1	50.8	53.4	46.6	35.5	75.3	4.2	0.0

Total Irrigation System Runtime (normal operation)

Maximum system runtime per irrigation day (single-station operation)	Hrs	0.0	0.0	30.6	19.2	36.8	33.9	35.6	31.1	23.7	50.2	2.8	0.0

Note: hours shown are cumulative and run schedule may be reduced if controller is capable of multi-valve operation.

HYDROZONE CALCULATION REFERENCE

Ks = Species factor
Per WUCOLS List:
.1 - Very Low
.2 - Low
.5 - Medium
.8 - High

Kd = Density factor
Plant Spacing & layering
0.8 - Low
1.0 - Average
1.3 - High

Kmc = Micro-climate factor
Relative to open field conditions
0.7 - Low
1.00 - Average
1.3 - High

KL = Landscape Coefficient
Calculation factor

Irr Type = Method of Irrigation
Overhead spray, bubbler, or drip

IE = Irrigation Effieciency
Value based on irrigation method

PR = Precipitation Rate
Value based on irrigation method

BIR = Basic Infiltration Rate
Infiltration rate based on type of soil

AW = Available Water
Amount of water per inch of soil available to plant
assuming field-saturated condition

RZ = Depth of Root Zone
Depth placed on plant material

PAW = Plant Available Water
Water available to plant based on root zone, depth, & soil type

MAD = Management Allowable Depletion
Percentage of plant available water allowed to be depleted from usable soil profile

AD = Allowable Depletion
Plant available water allowed to be lost to avoid reaching
permanent wilting point

IRRIGATION SCHEDULING NOTE

PROJECT INCLUDES A NEW IRRIGATION SYSTEM AND REQUIRES THE FOLLOWING MEASURES TO BE MET:

1. IRRIGATION MUST BE SCHEDULED BETWEEN 10:00 P.M. AND 6:00 A.M. UNLESS WEATHER CONDITIONS PREVENT IT.
2. OPERATION OF THE IRRIGATION SYSTEM OUTSIDE THE NORMAL WATERING WINDOW IS ALLOWED FOR AUDITING AND SYSTEM MAINTENANCE.
3. TOTAL ANNUAL APPLIED WATER SHALL BE LESS THAN OR EQUAL TO MAXIMUM APPLIED WATER ALLOWANCE (MAWA) AS CALCULATED PER THE POTABLE WATER USE REDUCTION REQUIREMENTS.

LANDSCAPE SUMMARY

TOTAL IRRIGATED LANDSCAPE AREA 1,177 SF

MAXIMUM APPLIED WATER ALLOWANCE (MAWA) 25,634 GALLON/YR
ESTIMATED TOTAL WATER USE (ETWU) 14,725 GALLON/YR

I HAVE COMPLIED WITH THE CRITERIA OF THE MODEL WATER EFFICIENT LANDSCAPE ORDINANCE AND APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE AND IRRIGATION DESIGN PLANS.

THAIS DEL CASTILLO, RLA 4836

MAXIMUM APPLIED WATER ALLOWANCE (MAWA)

MAWA = (ETo) (0.62) [(ETAF X LA) + ((1-ETAF) X SLA)]
= (55.2) (0.62) [(.45 X 1,177) + ((.55) X 219)]
= (55.2) (0.62) [(530) + (219)]
= (55.2) (0.62) (749)

TOTAL MAXIMUM APPLIED WATER ALLOWANCE (MAWA): 25,634 Gallons Per Year

ESTIMATED TOTAL WATER USE (ETWU)

ETWU = (ETo) (PF) (HA) (0.62) / (IE)

WATER USE ZONES:

SHRUB AND GROUNDCOVER AREAS (Low water use-Drip): (55.2) (.20) (581) (.62) / (0.81) = 4,910 Gallons per year

SHRUB AND GROUNDCOVER AREAS (Medium Water Use-Drip): (55.2) (.50) (177) (.62) / (0.81) = 3,739 Gallons per year

TREE BUBBLER (Medium water use-Bubblers): (55.2) (.50) (200) (.62) / (0.81) = 4,225 Gallons per year

GARDEN BED AREAS (Low Water Use-Drip): (55.2) (.20) (219) (.62) / (0.81) = 1,851 Gallons per year

TOTAL ESTIMATED WATER USE (ETWU): 14,725 Gallons per year

SUMMARY:

(ETWU): 14,725 Gallons Per Year IS LESS THAN (MAWA): 25,634 Gallons Per Year

Calculations based on California Department of Water Resources Title 23, Appendix A Reference Evapotranspiration Table, Department of Water Resources and WUCOLS III (Water Use Classifications of Landscape Species) guide.

ETo = Reference evapotranspiration (inches/year)
ETAF = .45 for non-residential areas, .55 for residential areas (ET adjustment factor)
LA = Landscape area (square feet)
0.62 = Conversion factor (to gallons per square foot)
PF = Plant Factor (0-0.1 Very Low, 0.2-0.3 Low, 0.4-0.6 Medium, 0.7-1.0 High plant water usage, 1.0 SLA)
SLA = Special Landscape Area (square feet)
HA = Hydrozone Area (square feet)
IE = Irrigation Efficiency (0.75 for Spray Heads and 0.81 for Drip/Bubblers)

City of Sacramento
55.2 Inches per year
Tree area based on 25 square feet per tree
Total Irrigated Landscape Area = 1,177 sq. ft.

PIPE SIZING SCHEDULE (SCH 40 PVC)

FOR LATERAL LINES IN DRIP AREAS BEYOND THOSE SHOWN ON PLAN, CONTRACTOR SHALL FIELD SIZE BASED ON THE FOLLOWING TABLE:

PIPE SIZE	MAXIMUM GALLONS PER MINUTE (GPM)
3/4"	8 GPM
1"	12 GPM
1-1/4"	22 GPM
1-1/2"	30 GPM
2"	50 GPM
2-1/2"	80 GPM

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

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REVISIONS
No. Date Description

PROJECT

MARK TWAIN ELEMENTARY SCHOOL

4914 58TH STREET
SACRAMENTO, CA
95820
DSA# 02-123992

ALICENSED LANDSCAPE ARCHITECT THAIS DEL CASTILLO No.4836 Signature Exp. 05/30/27 STATE OF CALIFORNIA

DATE SIGNED: 01/26/26

SHEET TITLE

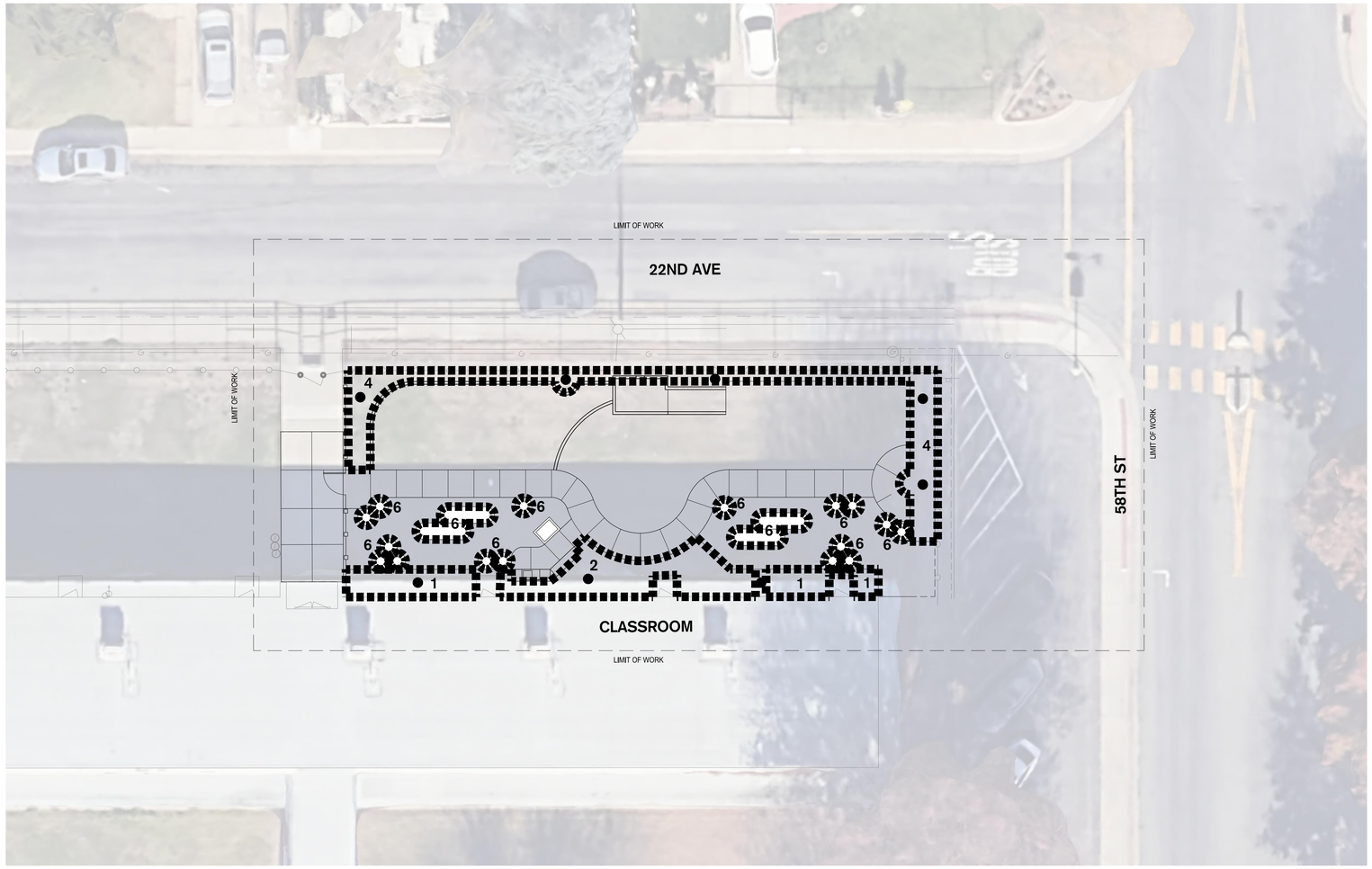
IRRIGATION CALCULATION

Proj Mgr	TDC
Drawn by	SLT
Date	01/26/2026
Job No.	25206

Sheet: **L1.1**

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D:\JOBPROJECTS\25206 SACRAMENTO CITY UNIFIED - MARK TWAIN\PLANS AND GRAPHICS\IMPROVEMENT PLANS\25206-L1.1-IRRIGATION CALCULATION.DWG 1/26/2026 5:36 PM



0' 5' 10' 20'

SCALE: 1"=10'

HYDROZONE INFORMATION LEGEND

HYDROZONE 1

SQUARE FOOTAGE:	257 SF
PLANT WATER USE:	L
PLANT FACTOR:	0.20
SUN EXPOSURE:	H
IRRIGATION METHOD:	DRIPLINE
PLANT MATERIAL:	SHRUBS & GROUNDCOVER

HYDROZONE 2

SQUARE FOOTAGE:	177 SF
PLANT WATER USE:	M
PLANT FACTOR:	0.50
SUN EXPOSURE:	H
IRRIGATION METHOD:	DRIPLINE
PLANT MATERIAL:	SHRUBS & GROUNDCOVER

HYDROZONE 3

SQUARE FOOTAGE:	75 SF
PLANT WATER USE:	M
PLANT FACTOR:	0.50
SUN EXPOSURE:	H
IRRIGATION METHOD:	BUBBLER
PLANT MATERIAL:	TREES

HYDROZONE 4

SQUARE FOOTAGE:	324 SF
PLANT WATER USE:	L
PLANT FACTOR:	0.20
SUN EXPOSURE:	H
IRRIGATION METHOD:	DRIPLINE
PLANT MATERIAL:	SHRUBS & GROUNDCOVER

HYDROZONE 5

SQUARE FOOTAGE:	125 SF
PLANT WATER USE:	M
PLANT FACTOR:	0.50
SUN EXPOSURE:	H
IRRIGATION METHOD:	BUBBLER
PLANT MATERIAL:	TREES

HYDROZONE 6

SQUARE FOOTAGE:	219 SF
PLANT WATER USE:	L
PLANT FACTOR:	0.20
SUN EXPOSURE:	H
IRRIGATION METHOD:	DRIP
PLANT MATERIAL:	GARDEN BEDS

PLANT WATER USE	SUN EXPOSURE	IRRIGATION METHOD
H = HIGH (0.7-1.0)	H = HIGH: SUN ALL DAY/ALMOST ALL DAY	B = BUBBLER
M = MEDIUM (0.4-0.6)	M= MEDIUM: MIXTURE OF SUN AND SHADE	D = DRIP
L = LOW/VERY LOW (0.1-0.3)	L = LOW: SHADE ALL DAY/ALMOST ALL DAY	M = MICRO-SPRAY
		R = ROTOR
		S = SPRAY
		O = OTHER

GENERAL NOTES

1. SEE PLANTING PLAN, L2.0 FOR INSTALLATION LAYOUT AND LOCATIONS OF PROPOSED PLANTS.
2. HYDROZONE AREAS SHALL HAVE ISOLATED VALVE STATIONING, SEE IRRIGATION PLAN, L1.0 .

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REVISIONS

No. Date Description

PROJECT

MARK TWAIN ELEMENTARY SCHOOL

4914 58TH STREET
SACRAMENTO, CA
95820
DSA# 02-123992

LICENSED LANDSCAPE ARCHITECT
TIMOTHY DEL CASTILLO
No. 6836
Signature
Exp. 05/30/27
STATE OF CALIFORNIA

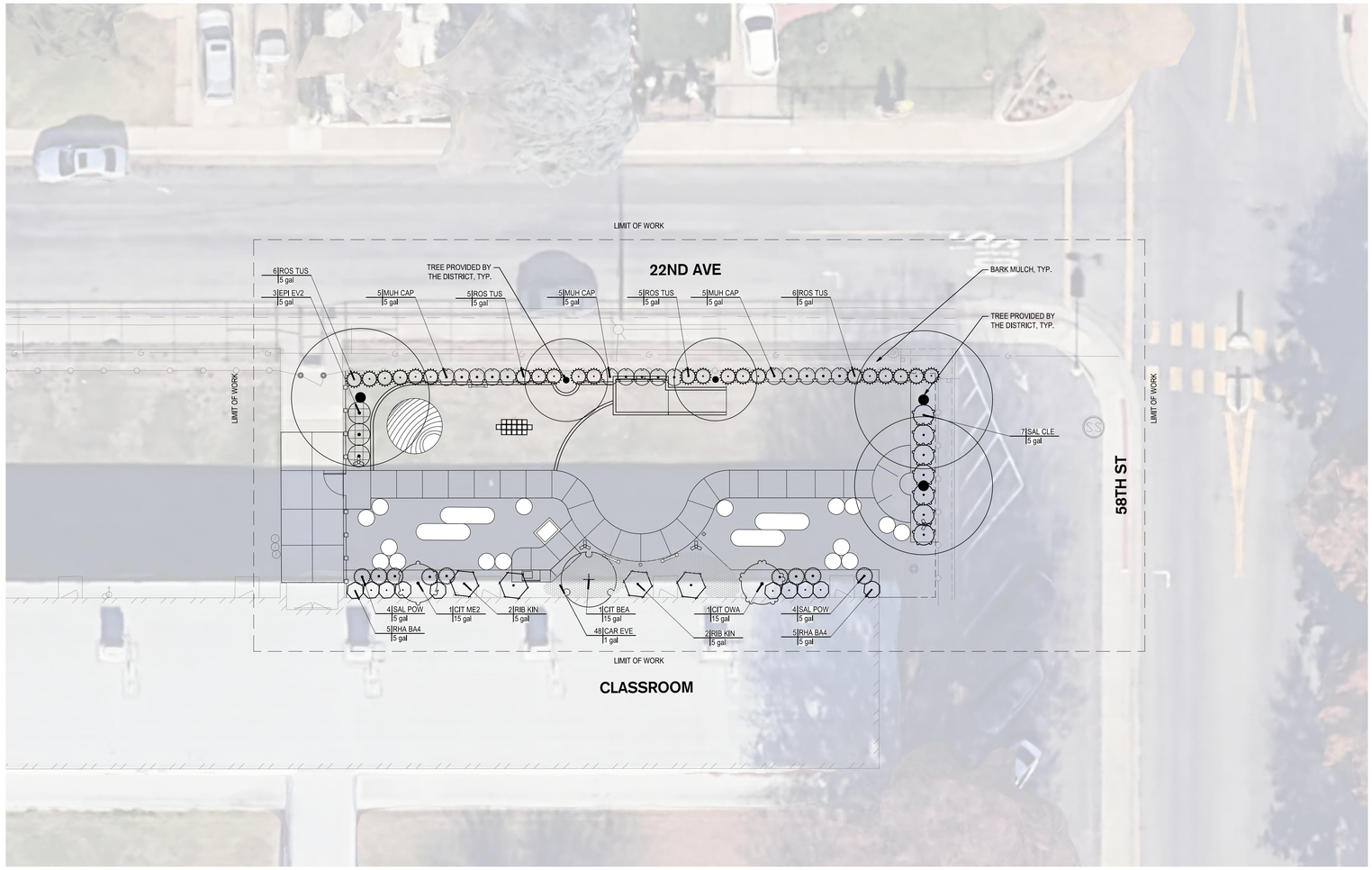
DATE SIGNED: 01/26/26

SHEET TITLE

HYDROZONE PLAN

Proj Mgr	TDC
Drawn by	SLT
Date	01/26/2026
Job No.	25206
Sheet:	**L1.2**
	12 of: 17

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0' 5' 10' 20'

SCALE: 1"=10'

PLANTING LEGEND

SYMBOL	CODE	BOTANICAL / COMMON NAME	CONT	WATER USE		QTY
TREES						
	CIT OWA	Citrus reticulata 'Owari' / Owari Satsuma Mandarin Orange	15 gal	M		1
	CIT BEA	Citrus x aurantiifolia 'Bearss Seedless' / Bearss Seedless Lime	15 gal	M		1
	CIT ME2	Citrus x limon 'Meyer' / Meyer Lemon	15 gal	M		1
SHRUBS						
	EPI EV2	Epilobium canum latifolium 'Everett's Choice' / Everett's California Fuchsia	5 gal	L		3
	MUH CAP	Muhlenbergia capillaris / Pink Muhly Grass	5 gal	M		15
	RHA BA4	Rhaphiolepis indica 'Ballerina' / Ballerina Indian Hawthorn	5 gal	L		10
	RIB KIN	Ribes sanguineum 'King Edward VII' / Red Flowering Currant	5 gal	L		4
	ROS TUS	Rosmarinus officinalis 'Tuscan Blue' / Tuscan Blue Rosemary	5 gal	L		22
	SAL CLE	Salvia clevelandii / Cleveland Sage	5 gal	L		7
	SAL POW	Salvia spathacea 'Powerline Pink' / Powerline Pink Hummingbird Sage	5 gal	L		9
SYMBOL	CODE	BOTANICAL / COMMON NAME	CONT	WATER USE	SPACING	QTY
GROUND COVERS						
	CAR EVE	Carex oshimensis 'Evergold' / Evergold Japanese Sedge	1 gal	L	24" o.c.	48

PLANTING NOTES

1. IF A DISCREPANCY BETWEEN THESE PLANS AND ACTUAL ON-SITE CONDITIONS OCCURS, THE CONTRACTOR IS TO NOTIFY THE OWNER IMMEDIATELY, BEFORE PROCEEDING WITH WORK, FOR A DECISION.
2. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH LOCAL AND STATE STANDARDS AND CODES.
3. ALL PLANTS BROUGHT ONTO THE SITE SHALL BE WATERED AND PROTECTED FROM EXCESSIVE WIND, SUN, FROST, PHYSICAL DAMAGE AND THEFT UNTIL PLANTED.
4. ALL ASPHALT, BASE COURSE AND OTHER DEBRIS ARE TO BE REMOVED COMPLETELY BELOW PLANTING AREAS TO NATIVE SOIL LEVEL.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR POSITIVE SURFACE DRAINAGE AT 2% MINIMUM IN PLANTING AREAS EXCEPT WHERE SHOWN.
6. THE CONTRACTOR SHALL FURNISH AND APPLY THE APPROPRIATE PRE-EMERGENT HERBICIDE AT RATES PRESCRIBED BY LAW AND THE MANUFACTURER'S RECOMMENDATIONS. 'SURFLAN 75W' IS RECOMMENDED FOR GROUND COVER AND SHRUB AREAS. ALL PRE-EMERGENT HERBICIDES SHALL BE APPLIED BY LICENSED OPERATORS UNDER FAVORABLE WEATHER CONDITIONS.
7. ALL PLANTING AREAS SHALL BE ROTOTILLED.
8. THE CONTRACTOR TO BE RESPONSIBLE FOR OBTAINING A SOILS TEST AND PROVIDING THE APPROPRIATE AMENDMENTS BASED ON THE TEST RESULTS.
9. FINISH GRADE OF PLANTED AREAS TO BE ONE (1) INCH BELOW PAVING. WATER SOIL THOROUGHLY BEFORE PLANTING. ALL PLANTS SHALL BE SET AT SUCH A LEVEL THAT AFTER SETTLING THEY BEAR THE SAME RELATIONSHIP TO THE SURROUNDING FINISH GRADE AS THEY BORE TO THE SOIL LINE GRADE IN THE CONTAINER, UNLESS OTHERWISE NOTED.
10. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE DRAINAGE OF ALL PLANTINGS, SUFFICIENT TO INSURE HEALTHY GROWTH.
11. COVER ALL PLANTING AREAS WITH A 3" DEPTH OF APPROVED BARK MULCH AFTER FINAL SHAPING OF SAUCERS AND DRESS OFF NEATLY.
12. ALL/ ANY EXISTING LANDSCAPE DAMAGED/ DESTROYED SHALL BE REPAIRED/ RESTORED TO LIKE ORIGINAL CONDITIONS (GRADING/ PLANTING AND IRRIGATION)

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REVISIONS

No. Date Description

PROJECT

MARK TWAIN ELEMENTARY SCHOOL

4914 58TH STREET
SACRAMENTO, CA
95820
DSA# 02-123992

LICENSED LANDSCAPE ARCHITECT TIMOTHY DEL CASTILLO No. 6836 Signature Exp. 05/30/27 STATE OF CALIFORNIA

DATE SIGNED: 01/26/26

SHEET TITLE

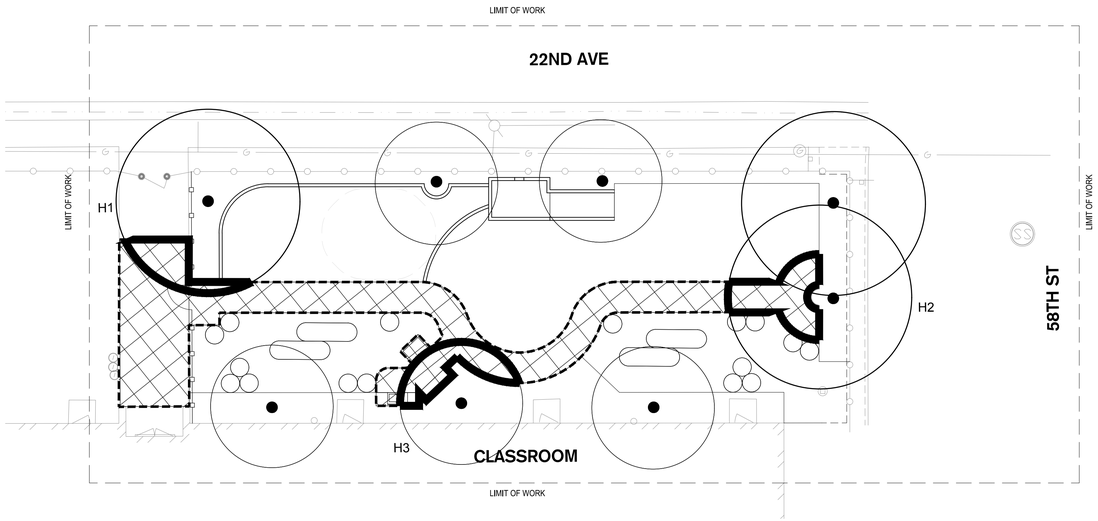
LANDSCAPE PLAN

Proj Mgr	TDC
Drawn by	SLT
Date	01/26/2026
Job No.	25206

Sheet: **L2.0**

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0' 5' 10' 20'
SCALE: 1"=10'

HARDSCAPE SHADE PLAN

HARDSCAPE AREAS NOTE:
1. PER GREEN BUILDING CODE STANDARD 5.106.12.3.
2. **20%** TREE SHADING REQUIREMENT OVER WALKS AND HARDSCAPE AREAS WITHIN 15 YEARS.
3. SHADE PERCENTAGE FIGURES ARE BASED ON THE CANOPY SPREAD PER CODE REQUIREMENTS.
4. TREE IS ASSUMED TO BE PLANTED FROM 15 GALLON CONTAINERS MINIMUM.

HARDSCAPE SHADE CALCULATIONS

SHADE COVERAGE	
TREE #	SHADE (SF)
H1	73
H2	110
H3	91
TOTAL:	274 SF

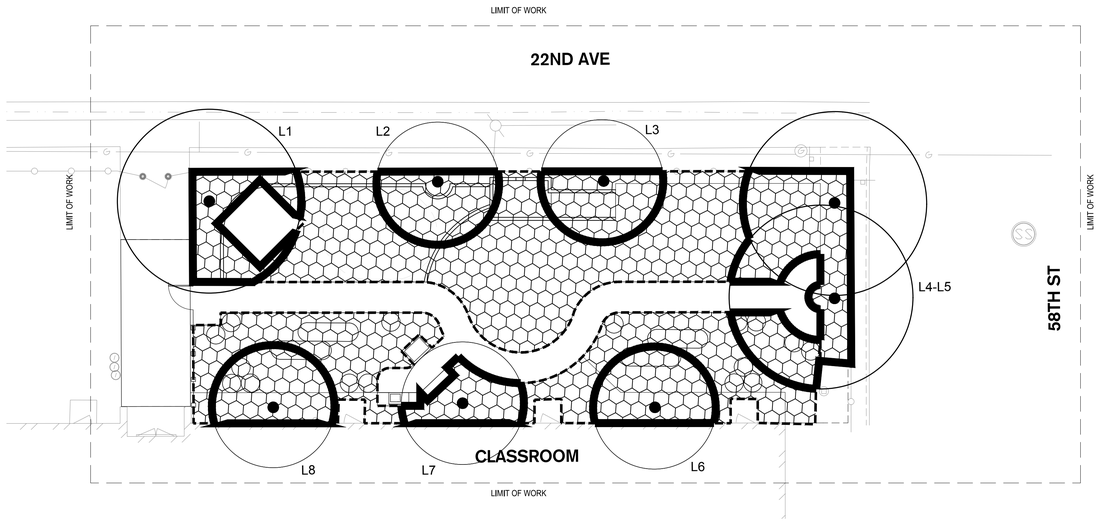
TOTAL HARDSCAPE AREA	1,012 SF
TOTAL SHADED AREA	274 SF
REQUIRED SHADED AREA (20%)	202 SF
PERCENT SHADED	27%

MEETS CODE REQUIREMENTS

TREES NOT APPLIED TO SHADE COVERAGE CALCULATION

XX TREE APPLIED TO SHADE COVERAGE CALCULATION

REPRESENTS PAVED AREA REQUIRED TO MEET SHADING REQUIREMENTS.



0' 5' 10' 20'
SCALE: 1"=10'

LANDSCAPE SHADE PLAN

HARDSCAPE AREAS NOTE:
1. PER GREEN BUILDING CODE STANDARD 5.106.12.3.
2. **20%** TREE SHADING REQUIREMENT OVER LANDSCAPE AREAS WITHIN 15 YEARS.
3. SHADE PERCENTAGE FIGURES ARE BASED ON THE CANOPY SPREAD PER CODE REQUIREMENTS.
4. TREE IS ASSUMED TO BE PLANTED FROM 15 GALLON CONTAINERS MINIMUM.

LANDSCAPE SHADE CALCULATIONS

SHADE COVERAGE	
TREE #	SHADE (SF)
L1	188
L2	196
L3	188
L4-L5	484
L6	206
L7	129
L8	211
TOTAL:	1602 SF

TOTAL LANDSCAPE AREA	3,496 SF
TOTAL SHADED AREA	1,602 SF
REQUIRED SHADED AREA (20%)	699 SF
PERCENT SHADED	46%

MEETS CODE REQUIREMENTS

TREES NOT APPLIED TO SHADE COVERAGE CALCULATION

XX TREE APPLIED TO SHADE COVERAGE CALCULATION

REPRESENTS LANDSCAPE AREA REQUIRED TO MEET SHADING REQUIREMENTS.

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REVISIONS

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LICENSED LANDSCAPE ARCHITECT
TINA DEL CASTILLO
No. 4836
Signature
Exp. 05/30/27
STATE OF CALIFORNIA

DATE SIGNED: 01/26/26

SHEET TITLE

TREE SHADE CALCULATION PLAN

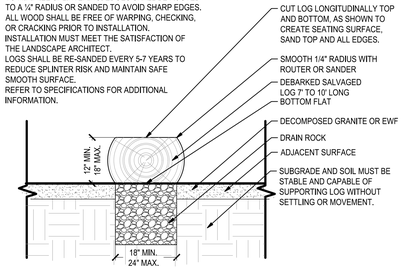
Proj Mgr	TDC
Drawn by	SLT
Date	01/26/2026
Job No.	25206

Sheet:
L2.1
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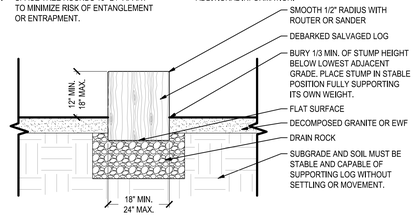
1 FIXED LOG SEATING
1/2" = 1'-0"

NOTES:
1. LOGS SHALL BE SOLID CEDAR, EUCALYPTUS OR REDWOOD, DEBARKED AND SKINNED/TURNED TO REMOVE IRREGULARITIES SUCH AS BRANCH STUBS.
2. SEATING SURFACE OF LOGS TO BE CONSISTENTLY LEVEL ALONG THE ENTIRE RUN.
3. TOP AND SIDES OF LOGS SHALL BE SANDED SMOOTH TO MINIMIZE SPLINTERING, EDGES SHALL BE ROUTED TO A ½" RADIUS OR SANDED TO AVOID SHARP EDGES.
4. ALL WOOD SHALL BE FREE OF WARPING, CHECKING, OR CRACKING PRIOR TO INSTALLATION.
5. INSTALLATION MUST MEET THE SATISFACTION OF THE LANDSCAPE ARCHITECT.
6. LOGS SHALL BE RE-SANDED EVERY 5-7 YEARS TO REDUCE SPLINTER RISK AND MAINTAIN SAFE SMOOTH SURFACE.
7. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

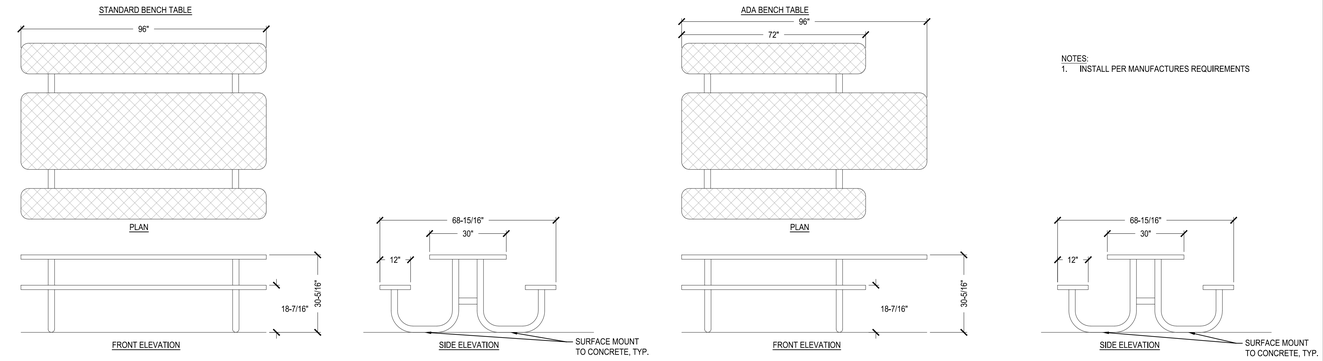


2 FIXED TREE ROUND SEATING
1/2" = 1'-0"

NOTES:
1. LOGS SHALL BE SOLID CEDAR, EUCALYPUS OR REDWOOD, DEBARKED AND SKINNED/TURNED TO REMOVE IRREGULARITIES SUCH AS BRANCH STUBS.
2. ALL WOOD SHALL BE FREE OF WARPING, CHECKING, OR CRACKING PRIOR TO INSTALLATION.
3. ALL SEATING STUMPS TO BE INSTALLED VERTICALLY WITH TOP CUT LEVEL. VARY HEIGHTS PER DETAIL.
4. SPACE TREE ROUNDS 10"-24" APART TO MINIMIZE RISK OF ENTANGLEMENT OR ENTRAPMENT.
5. MAINTAIN A MINIMUM OF 6' FROM ALL OTHER FIXED PLAY ELEMENTS OR STRUCTURES.
6. INSTALLATION MUST MEET THE SATISFACTION OF THE LANDSCAPE ARCHITECT.
7. TREE ROUNDS SHALL BE RE-SANDED EVERY 5-7 YEARS TO REDUCE SPLINTER RISK AND MAINTAIN SAFE SMOOTH SURFACE.
8. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

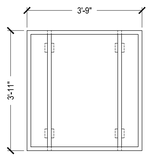


3 STANDARD AND ACCESSIBLE BENCH AND TABLE
NO SCALE



NOTES:
1. INSTALL PER MANUFACTURES REQUIREMENTS

PLAN VIEW



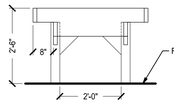
INTENT & BENEFIT:
RAISED BEDS PROVIDE PLANTING AREAS FOR GARDENING AND PLANTS FOR PLAY AND LEARNING IN AREAS THAT DO NOT HAVE ADEQUATE IN-GROUND SOIL. THIS DETAIL IS DESIGNED TO THE SCALE OF CHILDREN, AND IS THE ONLY DSA-APPROVED ADA-ACCESSIBLE PLANTING BED.

DESIGN NOTES:
A. DESIGNED IN COLLABORATION WITH THE SUPERVISING ARCHITECT FOR THE STATE OF CALIFORNIA EDUCATION DEPARTMENT, "ACCESSIBLE GARDENS" OFFERS THE ONLY DSA-APPROVED ACCESSIBLE RAISED PLANTER BED. IT PROVIDES EASY ACCESSIBILITY TO THE GARDEN BED FOR ADULTS AND CHILDREN IN WHEELCHAIRS IN A COMFORTABLE, FORWARD-FACING POSITION.
B. PLANTERS MAY NOT BE PLACED WITHIN EMERGENCY ACCESS LANES. DETERMINE LOCATION OF EMERGENCY ACCESS PRIOR TO SITE SELECTION FOR PLANTERS.
C. ALL DIMENSIONS IN FEET AND INCHES. DO NOT SCALE DRAWING.
D. MANUFACTURER: ACCESSIBLE GARDENS
MODEL: ADA COMPLIANT "FORWARD FACING" WHEELCHAIR GARDEN
MATERIAL: CEDAR OR REDWOOD
COLOR: NATURAL
SIZE: 45" WIDE × 48" LONG × 30" HIGH

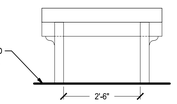
CONSTRUCTION NOTES:
A. APPLY NON-TOXIC WOOD STAIN TO WOOD.

MAINTENANCE NOTES:
A. PERIODIC SANDING AND STAINING TO IMPROVE LONGEVITY.
B. PERFORM ANNUAL CHECK OF JOINTS AND FASTENERS, TIGHTEN IF NECESSARY.
C. TURN OVER SOIL WITH EACH GROWING SEASON TO PROPERLY AERATE AND LOOSEN THE SOIL TO FACILITATE ROOT GROWTH.
D. REPLACE SOIL EVERY FEW YEARS FOR BEST RESULTS.

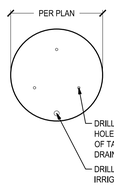
FRONT ELEVATION



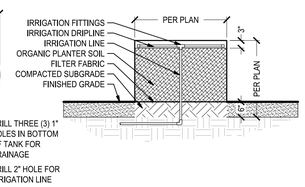
SIDE ELEVATION



PLAN VIEW

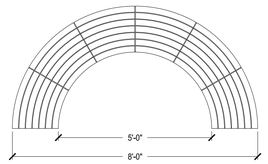


ELEVATION VIEW

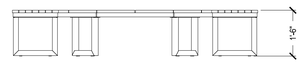


NOTES:
A. PLANTERS TO HAVE CRIMPED SMOOTH EDGES. CONTRACTOR TO ENSURE THERE ARE NO SHARP EDGES.
B. INSTALL PER MANUFACTURERS INSTRUCTIONS.

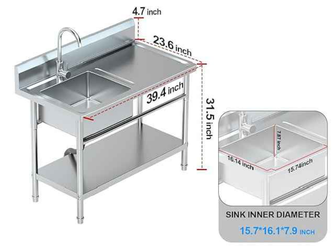
PLAN VIEW



FRONT ELEVATION

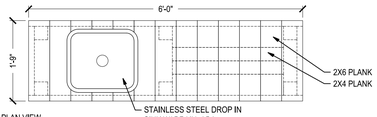


NOTES:
A. MODEL: MAGLIN OGDEN 1900-SCR3, OR APPROVED EQUAL
B. INSTALL PER MANUFACTURER'S RECOMMENDATIONS
C. REFER TO AMENITIES LEGEND FOR ADDITIONAL INFORMATION

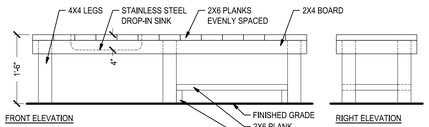


NOTE:
1. MANUFACTURER: PUREZMMOTO, MODEL # SINK 00221-02, OR APPROVED EQUAL
2. CONNECT DRAIN TO DRYWELL OR SEWER.
3. ENSURE SINK MEETS ACCESSIBILITY REQUIREMENTS

4 ADA RAISED PLANTER BED
1/2" = 1'-0"



PLAN VIEW



FRONT ELEVATION

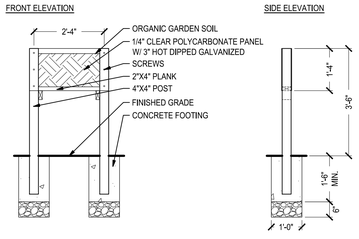
RIGHT ELEVATION

NOTES:
1. ALL WOOD SHALL BE DOUGLAS FIR OR WESTERN RED CEDAR #2 OR BETTER.
2. ALL WOOD TO BE STAINED.
3. ALL HARDWARE SHALL BE GALVANIZED, EXPOSED FASTENERS SHALL BE ALIGNED AND EVENLY SPACED. ALL SCREWS SHALL BE PRE-DRILLED, GAPS, SPLITS, OR IMPROPERLY FITTED JOINTS SHALL BE CAUSE FOR REJECTION.
4. CONTRACTOR SHALL PROVIDE ALL HARDWARE AND FASTENERS AS REQUIRED.
5. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR APPROVAL PRIOR TO CONSTRUCTION.

5 STEEL PLANTER BED
NTS

FRONT ELEVATION

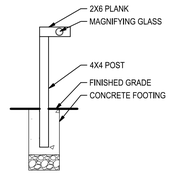
SIDE ELEVATION



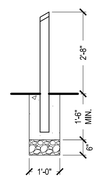
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4. CONTRACTOR SHALL PROVIDE ALL HARDWARE AND FASTENERS AS REQUIRED.
5. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR APPROVAL PRIOR TO CONSTRUCTION.

6 CURVED BENCH
NTS

FRONT ELEVATION



RIGHT ELEVATION

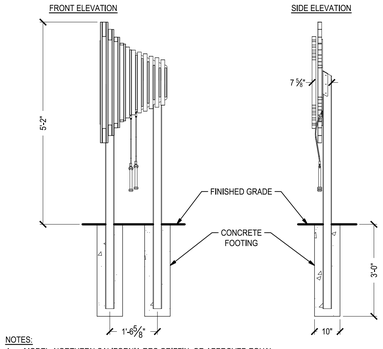


NOTES:
1. ALL WOOD SHALL BE DOUGLAS FIR OR WESTERN RED CEDAR #2 OR BETTER.
2. ALL WOOD TO BE STAINED.
3. ALL HARDWARE SHALL BE GALVANIZED, EXPOSED FASTENERS SHALL BE ALIGNED AND EVENLY SPACED. ALL SCREWS SHALL BE PRE-DRILLED, GAPS, SPLITS, OR IMPROPERLY FITTED JOINTS SHALL BE CAUSE FOR REJECTION.
4. CONTRACTOR SHALL PROVIDE ALL HARDWARE AND FASTENERS AS REQUIRED.
5. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR APPROVAL PRIOR TO CONSTRUCTION.

7 OUTDOOR KITCHEN COUNTERSINK
NTS

FRONT ELEVATION

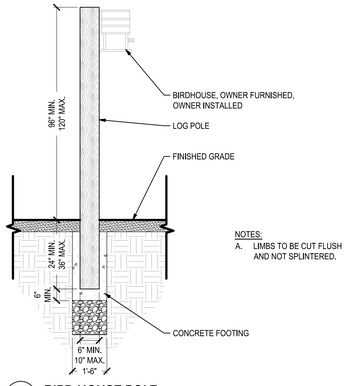
SIDE ELEVATION



NOTES:
A. MODEL: NORTHERN CALIFORNIA REC GRIFFIN, OR APPROVED EQUAL.
B. INSTALL PER MANUFACTURER'S RECOMMENDATIONS

8 PLAY KITCHEN
3/4" = 1'-0"

9 BIRD HOUSE POLE
3/8" =1'-0"

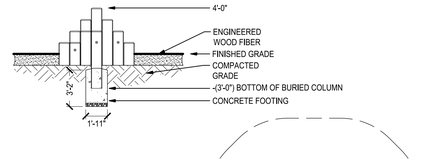


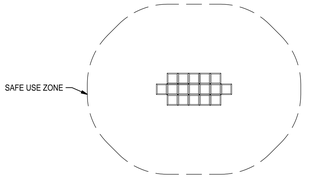
NOTES:
A. LIMBS TO BE CUT FLUSH AND NOT SPLINTERED.

10 CLEAR PLANTER PANEL
1/2" = 1'-0"

11 MAGNIFYING STATION
1/2" =1'-0"

12 FREENOTES GRIFFIN - ADD ALTERNATE #1
NTS

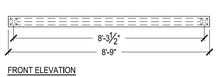




NOTES:
A. MODEL: COLUMBIA CASCADE CLASSIC TIMBERFORM NO.4500-503 STEPPING COLUMNS
B. INSTALL PER MANUFACTURERS RECOMMENDATIONS

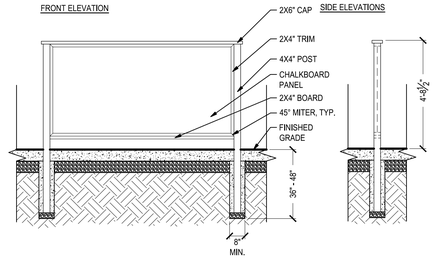
MINIMUM SAFE USE ZONE
18'-7" X 14'-10"
EQUIPMENT ONLY
6'-7" X 2'-10"

PLAN VIEW



FRONT ELEVATION

SIDE ELEVATIONS



NOTES:
A. NATURE'S INSTRUMENTS CREATIVE PANELS MODEL # NI-PO-30X-01
B. INSTALL PER MANUFACTURER'S RECOMMENDATIONS

13 CREATIVE PANELS - NATURE'S INSTRUMENTS
3/8" = 1'-0"

14 LOG CLIMBER
3/16" = 1'-0"

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- GEOTECHNICAL

REVISIONS
No. Date Description

PROJECT

MARK TWAIN ELEMENTARY SCHOOL

4914 58TH STREET
SACRAMENTO, CA
95820
DSA# 02-123992

LICENSED LANDSCAPE ARCHITECT TIMS DEL CASTILLO No.4836 STATE OF CALIFORNIA
Signature Exp. 05/30/27
DATE SIGNED: 01/26/26

SHEET TITLE

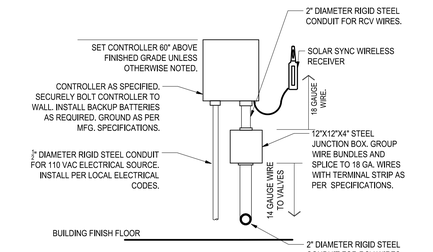
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Drawn by	SLT
Date	01/26/2026
Job No.	25206

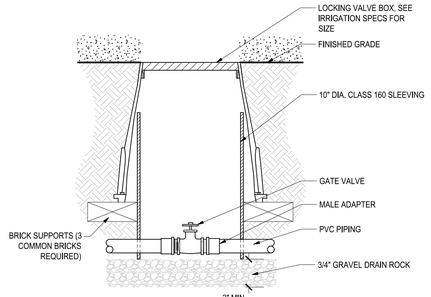
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15 of: 17

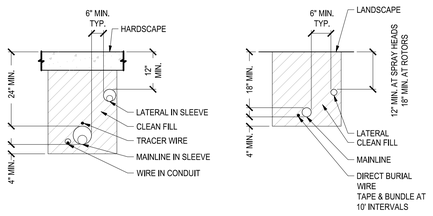
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1 WALL-MOUNTED CONTROLLER
NO SCALE

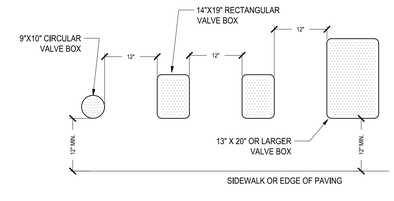


2 GATE VALVE
NO SCALE



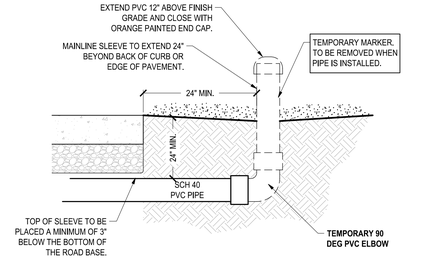
NOTES:
1. SLEEVE 24" BELOW ALL HARDSCAPE ELEMENTS WITH SCH. 40 PVC TWICE THE DIAMETER OF THE PIPE OR WIRE BUNDLE WITHIN.
2. TIE A 24" LOOP IN ALL WIRING AT CHANGES OF DIRECTION OF 30' OR GREATER. UNTIE AFTER ALL CONNECTIONS HAVE BEEN MADE.
3. SNAKE ALL SOLVENT WELD PLASTIC PIPING IN TRENCHES FROM SIDE TO SIDE AT 50' INTERVALS.
4. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

3 PIPE AND WIRE TRENCHING
NO SCALE

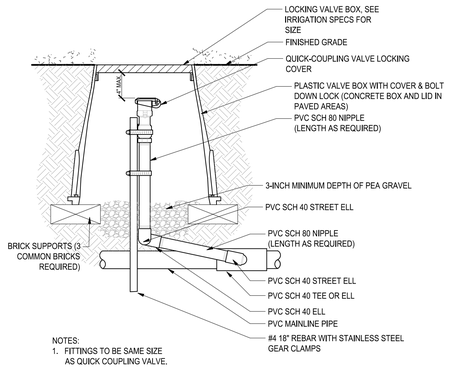


NOTES:
1. CENTER BOX OVER VALVE TO FACILITATE SERVICING VALVE.
2. SET BOXES AT FINISH GRADE OR MULCH COVER IN GROUND COVER/SHRUB AREA AND FLUSH WITH FINISH GRADE IN TURF AREA.
3. SET VALVE BOX ASSEMBLY IN GROUND COVER/SHRUB AREA WHERE POSSIBLE. INSTALL IN LAWN AREA ONLY IF GROUND COVER/SHRUB AREA DOES NOT EXIST ADJACENT TO LAWN.
4. SET BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE.
5. AVOID HEAVILY COMPACTING SOIL AROUND VALVE BOX EDGES TO PREVENT COLLAPSE AND DEFORMATION OF VALVE BOX SIDES.
6. VALVE BOXES SHALL HAVE BOLT DOWN LIDS WITH BOLTS INSTALLED.

4 VALVE BOX
NO SCALE

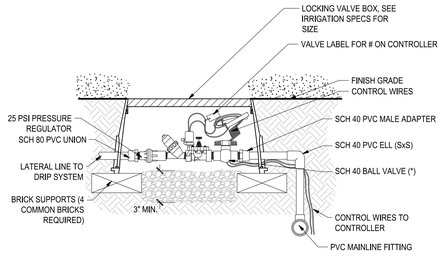


5 PIPE SLEEVE WITH 90 ELBOW
NO SCALE



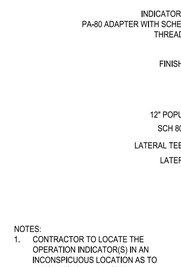
NOTES:
1. FITTINGS TO BE SAME SIZE AS QUICK COUPLING VALVE.

6 QUICK COUPLER
NO SCALE



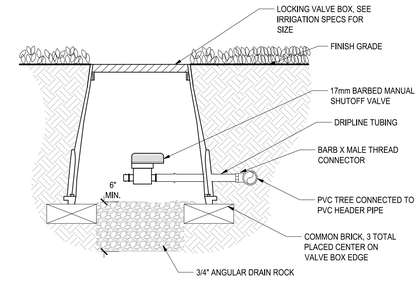
NOTES:
1. MIN. AND MAX. FLOW RATE - PER MANUFACTURER.
2. (*) PARTS IN DRIP ZONE KIT.
3. INSTALL WIRE MESH UNDER GRAVEL.

7 REMOTE CONTROL VALVE-DRIP
NO SCALE

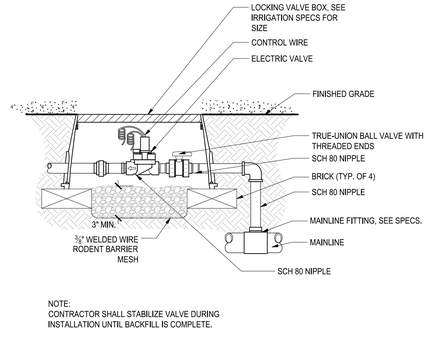


NOTES:
1. CONTRACTOR TO LOCATE THE OPERATION INDICATOR(S) IN AN INCONSPICUOUS LOCATION AS TO AVOID BEING VANDALIZED.
2. ONE PER DRIP VALVE STATION.
3. LOCATED WITHIN 8 FEET OF VALVE BOX.

8 DRIP SYSTEM OPERATION INDICATOR
NO SCALE

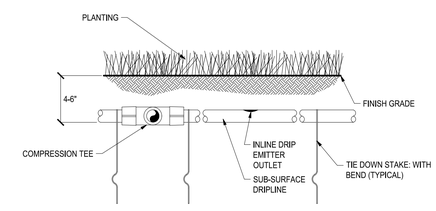


9 MANUAL FLUSH VALVE
NO SCALE



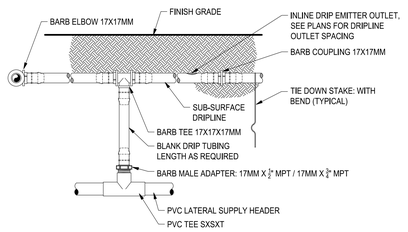
NOTE:
CONTRACTOR SHALL STABILIZE VALVE DURING INSTALLATION UNTIL BACKFILL IS COMPLETE.

10 REMOTE CONTROL VALVE WITH BALL VALVE
NO SCALE



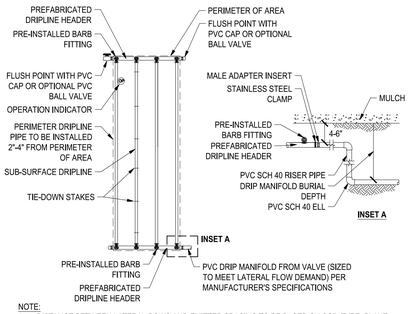
NOTE:
1. PLACE TIE DOWN STAKES EVERY THREE FEET IN SAND, FOUR FEET IN LOAM AND FIVE FEET IN CLAY.
2. AT FITTINGS WHERE THERE IS A CHANGE OF DIRECTION SUCH AS TEES OR ELBOWS, USE TIE-DOWN STAKES ON EACH LEG OF THE CHANGE OF DIRECTION.

11 SUB-SURFACE DRIPLINE STAKING
NO SCALE



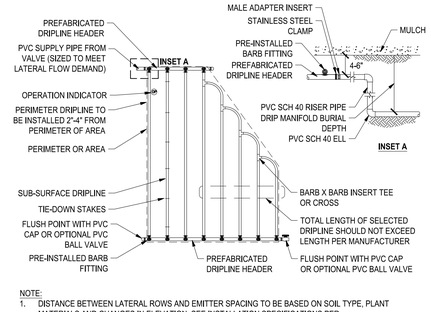
NOTE:
1. PLACE TIE DOWN STAKES EVERY THREE FEET IN SAND, FOUR FEET IN LOAM AND FIVE FEET IN CLAY.
2. AT FITTINGS WHERE THERE IS A CHANGE OF DIRECTION SUCH AS TEES OR ELBOWS, USE TIE-DOWN STAKES ON EACH LEG OF THE CHANGE OF DIRECTION.

12 SUB-SURFACE DRIPLINE - DRIPLINE RISER ASSEMBLY
NO SCALE



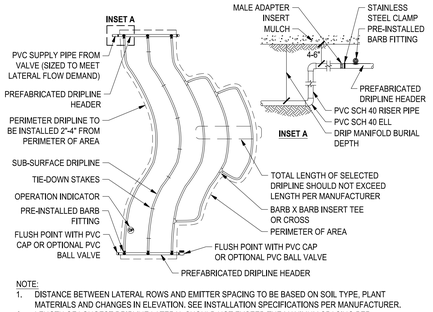
NOTE:
1. DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. SEE INSTALLATION SPECIFICATIONS PER MANUFACTURER.
2. LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM SPACING PER MANUFACTURER'S SPECIFICATIONS.

13 SUB-SURFACE DRIPLINE - END FEED LAYOUT
NO SCALE



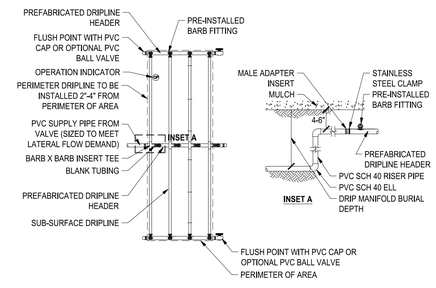
NOTE:
1. DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. SEE INSTALLATION SPECIFICATIONS PER MANUFACTURER.
2. LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM SPACING PER MANUFACTURER'S SPECIFICATIONS.

14 SUB-SURFACE DRIPLINE - IRREGULAR SHAPED LAYOUT
NO SCALE



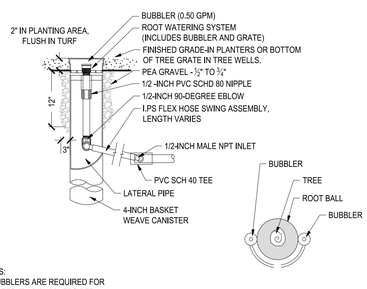
NOTE:
1. DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. SEE INSTALLATION SPECIFICATIONS PER MANUFACTURER.
2. LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM SPACING PER MANUFACTURER'S SPECIFICATIONS.
3. PLACE TIE DOWN STAKES EVERY THREE FEET IN SAND, FOUR FEET IN LOAM AND FIVE FEET IN CLAY.
4. AT FITTINGS WHERE THERE IS A CHANGE OF DIRECTION SUCH AS TEES OR ELBOWS, USE TIE-DOWN STAKES ON EACH LEG OF THE CHANGE OF DIRECTION.

15 SUB-SURFACE DRIPLINE - CURVED EDGE LAYOUT
NO SCALE



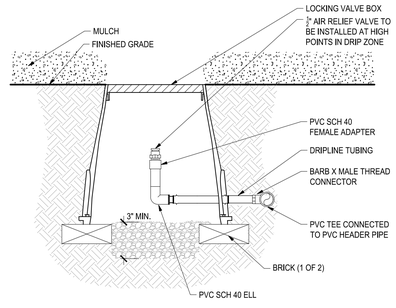
NOTE:
1. DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. SEE INSTALLATION SPECIFICATIONS PER MANUFACTURER.
2. LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM SPACING PER MANUFACTURER'S SPECIFICATIONS.

16 SUB-SURFACE DRIPLINE - CENTER FEED LAYOUT
NO SCALE

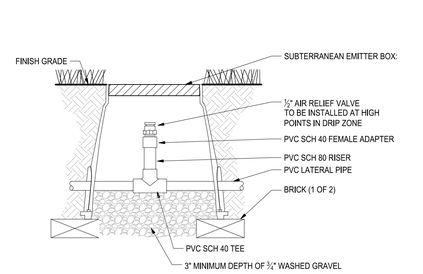


NOTES:
1. BUBBLERS ARE REQUIRED FOR TREES. TWO BUBBLERS PER TREE ARE TO BE PLACED ON OPPOSITE SIDES OF ROOTBALL.
2. USE PROPER RATED GLUE FOR I.P.S. FLEX HOSE.

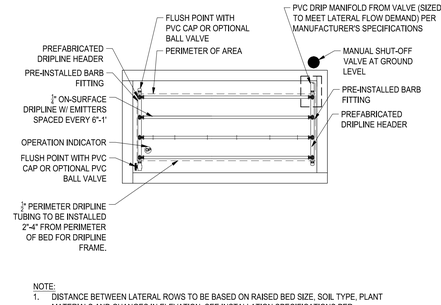
17 DEEP ROOT WATERING SYSTEM
NO SCALE



18 AIR RELIEF VALVE
NO SCALE



19 AIR RELIEF VALVE
NO SCALE



NOTE:
1. DISTANCE BETWEEN LATERAL ROWS TO BE BASED ON RAISED BED SIZE, SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. SEE INSTALLATION SPECIFICATIONS PER MANUFACTURER.
2. LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM SPACING PER MANUFACTURER'S SPECIFICATIONS.

20 DRIPLINE FRAMEWORK AT RAISED PLANTER BED
3/8" = 1'-0"

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REVISIONS

No.	Date	Description

PROJECT

MARK TWAIN ELEMENTARY SCHOOL

4914 58TH STREET
SACRAMENTO, CA
95820
DSA# 02-123992

REGISTERED LANDSCAPE ARCHITECT TINA DEL CASTILLO No.4836 Signature Exp. 05/30/27 STATE OF CALIFORNIA
DATE SIGNED: 01/26/26

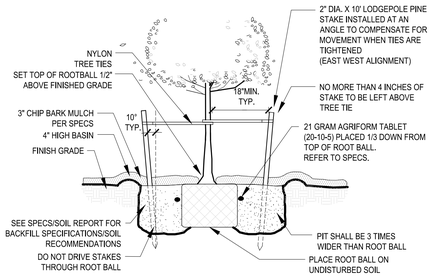
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IRRIGATION DETAILS

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Drawn by	SLT
Date	01/26/2026
Job No.	25206
Sheet:	L3.1

16 of: 17

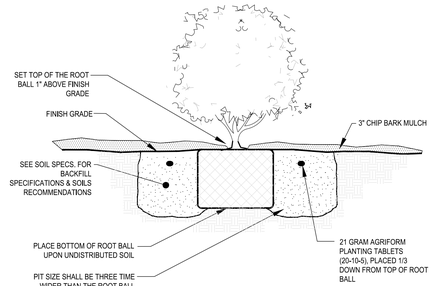
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NOTES:

1. STAKES TO BE SET ON EAST & WEST SIDES OF TREE. SINK INTO UNDISTURBED SOIL.
2. ROUND WOOD STAKES SHALL BE OF A HEIGHT APPROPRIATE TO SUPPORT TRUNK OF TREE AND TO ALLOW TIES TO BE SET ABOVE THE POINT WHERE THE TREE BENDS NATURALLY. IN SOME CASES THIS MAY REQUIRE A STAKE TALLER THAN 8'.
3. TREE TIES SHALL BE CORDED RUBBER TIES NAILED TO THE BACK OF STAKE OR FASTENED WITH WIRE TIES FOR ADDED STRENGTH AND SHOULD BE INSTALLED ABOVE POINT WHERE TREE BENDS NATURALLY WHEN HELD BY HAND. DO NOT ALLOW TREE TO RUB AGAINST STAKES.

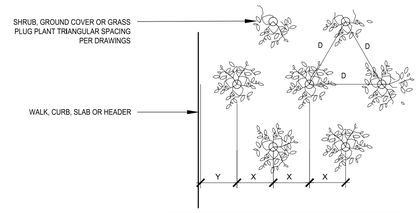
1 TYPICAL TREE PLANTING AND STAKING
NO SCALE



NOTE:
WEED CONTROL TO BE APPLIED TO ALL PLANTING AREAS AFTER COMPLETION OF PLANTING & PRIOR TO APPLYING MULCH APPLICATION. USE SURFLAN, OR EQUAL (SEE SPECIFICATIONS).

USE: 2 FOR 1 GALLON
4 FOR 5 GALLON
6 FOR 15 GALLON

2 TYPICAL SHRUB PLANTING
NO SCALE



SPACING 'D'	SPACING 'X'	SPACING 'Y'
12" O.C.	10"	10"
18" O.C.	16"	12"
24" O.C.	21"	15"
30" O.C.	25"	17"
36" O.C.	30"	20"

3 TRIANGULAR SPACING DETAIL
NO SCALE

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- GEOTECHNICAL

REVISIONS
No. Date Description

PROJECT

MARK TWAIN ELEMENTARY SCHOOL

4914 58TH STREET
SACRAMENTO, CA
95820
DSA# 02-123992

REGISTERED LANDSCAPE ARCHITECT
THOMAS DEL CASTILLO
No. 4830
Signature
Exp. 05/30/27
STATE OF CALIFORNIA

DATE SIGNED: 01/26/26

SHEET TITLE

LANDSCAPE DETAILS

Proj Mgr	TDC
Drawn by	SLT
Date	01/26/2026
Job No.	25206
Sheet:	**L3.2**
	17 of: 17

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