NEW JOSEPH BONNHEIM CHARTER SCHOOL

7300 MARIN AVE SACRAMENTO, CALIFORNIA 95820

PROJECT CONTACTS

CIVIL ENGINEER

SIEGFRIED ENGINEERING, INC.
1164 NATIONAL DRIVE
SACRAMENTO, CA 95834
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LANDSCAPE ARCHITECT

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PROJECT DATA

PROJECT ADDRESS: 7300 MARIN AVE, SACRAMENTO, CA 95820

PROJECT SCOPE

THIS PROJECT WILL SUPPORT OUTDOOR EDUCATION ON SCHOOL GROUNDS THROUGH THE DEVELOPMENT AND ENHANCEMENT OF LANDSCAPE AREAS, GARDEN BEDS, OUTDOOR CLASSROOMS, AND OTHER NATURE-BASED LEARNING SPACES. WORK INCLUDES DEMOLITION OF EXISTING SITE HARDSCAPE AND SITE ELEMENTS, SITE GRADING, CONSTRUCTION OF A NEW OUTDOOR CLASSROOM AND NATURE EXPLORATION AREA, INSTALLATION OF NEW HARDSCAPE AND LANDSCAPE IMPROVEMENTS, AND ASSOCIATED UTILITY WORK.

ADD ALTERNATE #1

- INSTALL SHRUBS AND GROUNDCOVERS.
- INSTALL TREES.
- INSTALL SCREENING SHRUBS.
- PROVIDE AND INSTALL CHILDREN'S DESKS.
- INSTALL FREENOTES TUNED DRUMS.
- INSTALL WATERWAY TABLE.
- INSTALL CLEAR PAINT PANELS
- INSTALL SINKS
- INSTALL CREATIVE PANEL - NATURE'S INSTRUMENTS
- INSTALL BIRD HOUSE POLES.

COSTS SHALL INCLUDE ALL LABOR AND MATERIALS FOR INSTALLATION OF ITEMS PER MANUFACTURE'S OR DRAWING DETAILS.

PARTIAL LIST OF APPLICABLE CODES

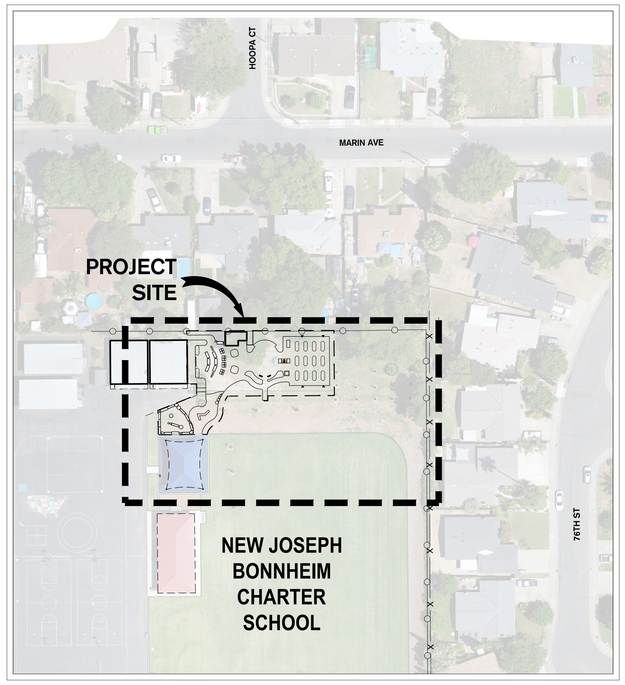
BUILDING-	2025 CALIFORNIA BUILDING CODE
MECHANICAL-	2025 CALIFORNIA MECHANICAL CODE
PLUMBING-	2025 CALIFORNIA PLUMBING CODE
ELECTRICAL-	2025 CALIFORNIA ELECTRICAL CODE
ACCESSIBILITY-	2025 CALIFORNIA BUILDING CODE, CHAPTER 11B (TITLE 24-DISABLED ACCESS)
ENERGY CODE-	2025 CALIFORNIA ENERGY CODE (TITLE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

2025 CALIFORNIA GREEN BUILDING STANDARDS CODE

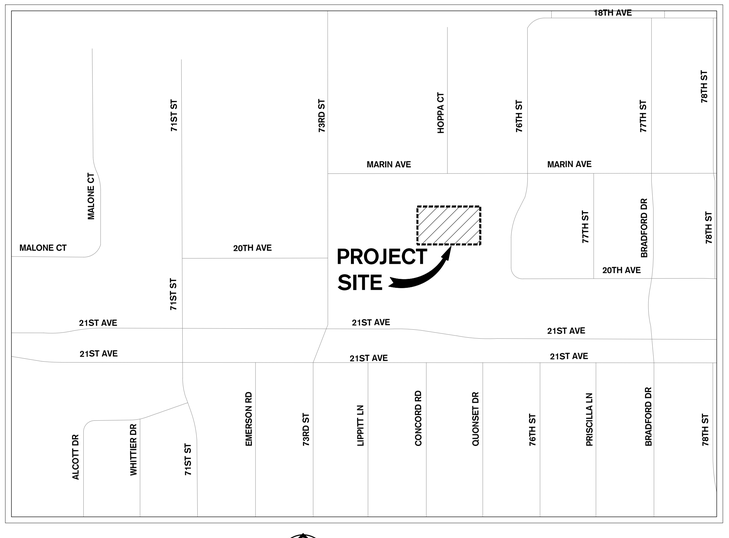
ALL CONSTRUCTION AND DEMOLITION SHALL BE IN ACCORDANCE WITH CHAPTER 33 OF THE CBC AND CFC, AND THE WRITTEN SITE FIRE SAFETY PLAN.

ADDITIONAL CODE

GRADING- 2025 CALIFORNIA BUILDING CODE APPENDIX J-GRADING



CAMPUS SITE PLAN
SCALE: 1" = 50'



VICINITY MAP
NOT TO SCALE

811
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F:\25PROJECTS\25275 SCUSD NEW JOSEPH BONNHEIM\PLANS AND GRAPHICS\IMPROVEMENT PLANS\25275 - CS - COVER SHEET.DWG 7/2/2026 2:44 PM

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CS	COVER SHEET
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C1.1	EXISTING CONDITIONS & DEMOLITION PLAN
C2.0	PAVING AND SITE AMENITIES PLAN
C3.0	CONCEPTUAL GRADING AND UTILITY PLAN
C4.0	CIVIL DETAILS
L1.0	IRRIGATION PLAN
L1.1	IRRIGATION CALCULATIONS
L2.0	PLANTING PLAN
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L3.1	IRRIGATION DETAILS
L3.2	LANDSCAPE DETAILS

GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO 2025 TITLE 24, CALIFORNIA CODE OF REGULATIONS (CCR).
2. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK IS TO BE IN ACCORDANCE WITH TITLE 24, CCR, SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE LANDSCAPE ARCHITECT BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24, CCR).
3. ALL CONSTRUCTION AND DEMOLITION SHALL BE IN ACCORDANCE WITH CHAPTER 33 OF THE CBC AND CFC.

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

REVISIONS

No.	Date	Description

PROJECT

NEW JOSEPH BONNHEIM CHARTER SCHOOL

7300 MARIN AVE, SACRAMENTO, CA 95820

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

DATE SIGNED: 07/02/26

SHEET TITLE

COVER SHEET

Proj Mgr	TDC
Drawn by	LLH/ONM
Date	07/02/2026
Job No.	25275

Sheet: CS
of: 12

GENERAL NOTES

1. 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.
2. ALL TRENCH EXCAVATION SHALL BE IN ACCORDANCE WITH CITY OF SACRAMENTO STANDARD SPECIFICATIONS.
3. EXCAVATION OF 5 FEET OR MORE IN DEPTH WILL REQUIRE AN EXCAVATION PERMIT FROM THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL SAFETY.
4. THE CONTRACTOR SHALL DEMOLISH, EXCAVATE, REMOVE AND DISPOSE OF ALL EXISTING ASPHALT CONCRETE PAVING AND CONCRETE, 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.
5. 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.
6. 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."
7. 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.
8. 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.
9. 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.
10. 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.
11. 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.
12. 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.
13. 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.
14. 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.
15. 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.
16. 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.
17. SAFETY DURING DEMOLITION AND CONSTRUCTION MUST COMPLY WITH CFC CHAPTER 33.

GRADING NOTES

1. STOCKPILES OF EXISTING DELETERIOUS MATERIAL SHALL BE STOCKPILED IN A SPOILS LOCATION SHOWN ON PLANS.
2. 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 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, LANDSCAPE AREAS SHALL BE COMPACTED TO A MINIMUM RELATIVE COMPACTION OF 85%.

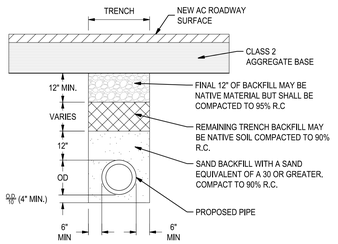
SITE ACCESSIBILITY GENERAL NOTES

WALKING SURFACES

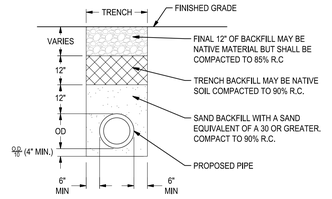
1. THE RUNNING SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:20. THE CROSS SLOPE OF WALKING SURFACES SHALL NOT BE STEEPER THAN 1:48.
2. FLOOR AND GROUND SURFACES SHALL BE STABLE, FIRM AND SLIP RESISTANT. CHANGES IN LEVEL SHALL COMPLY WITH SECTION 11B-303.
3. CHANGES IN LEVEL BETWEEN 1/4 INCH 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. 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.
5. 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)
6. 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)
7. 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).

PIPE TABLE

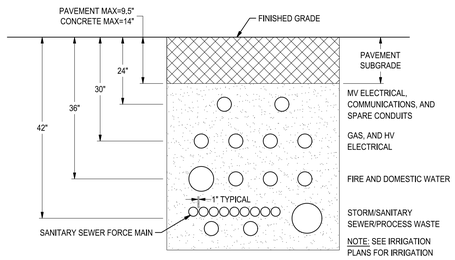
TYPE OF PIPE	PIPE DIAMETER	TYPE & CLASS	BEDDING AND BACKFILL	MINIMUM DEPTH OF BURY	PULL WIRE OR TRACER WIRE	END MARKERS
DOMESTIC WATER	3/4"-2"	1" DOMESTIC WATER SHALL BE COPPER, 4" AND LARGER SHALL BE PVC CL-150 DR-18 WITH TRACER WIRE AWWA C-900	PER DETAILS THIS SHEET	SEE DETAIL 4 THIS SHEET	ALL PIPES 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				



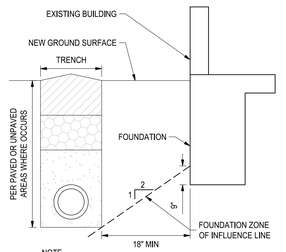
1 TRENCHING AND BACKFILL PAVED AREAS
NO SCALE



2 TRENCHING AND BACKFILL UNPAVED AREAS AREAS
NO SCALE



3 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

4 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	
6"SS	SANITARY SEWER LINE	6"SS
12"SD	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	
	WOOD FENCE	
	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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No.	Date	Description

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

DATE SIGNED: 07/02/26

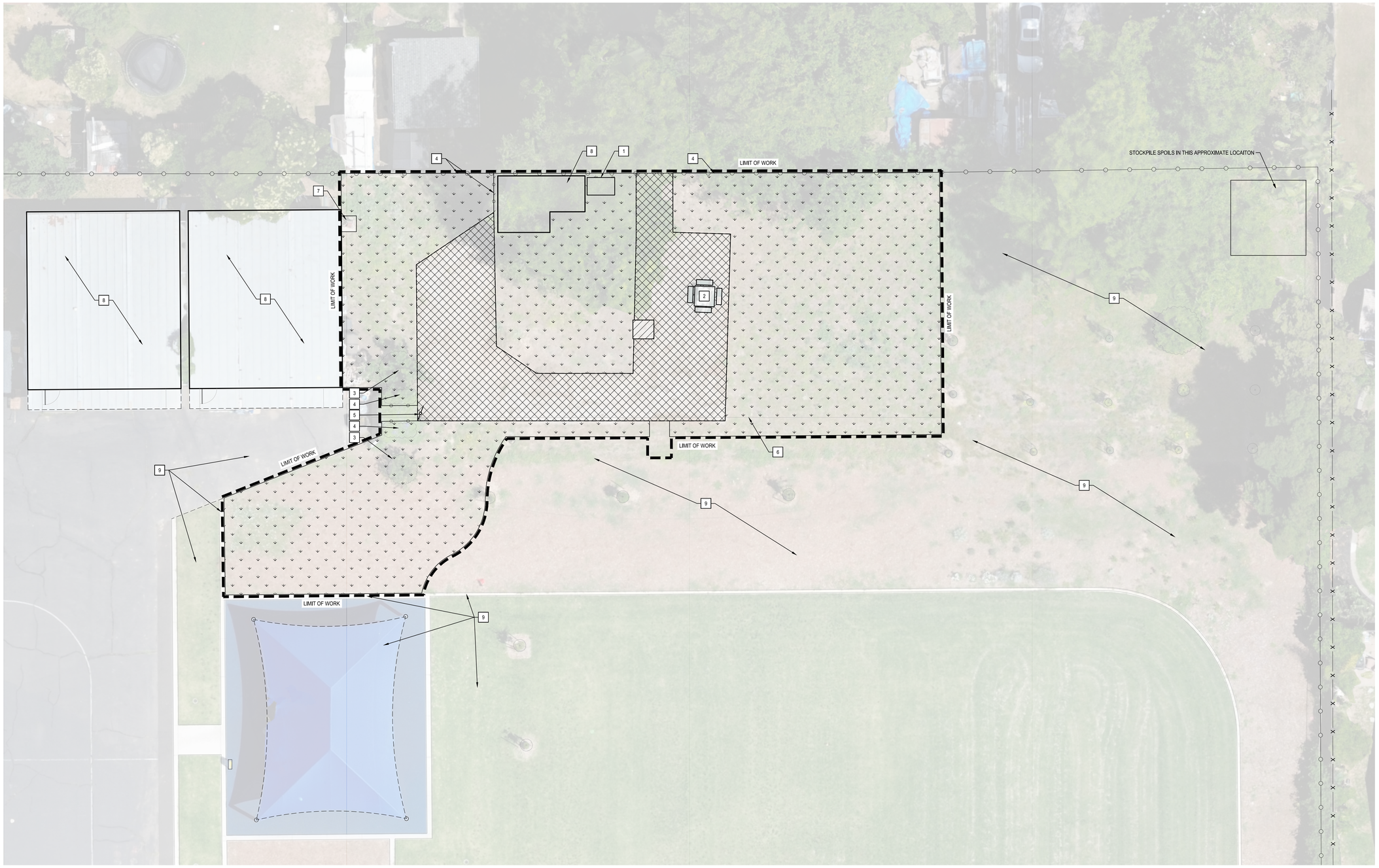
SHEET TITLE

GENERAL NOTES & ABVREBIATIONS

Proj Mgr	TDC
Drawn by	LLH/ONM
Date	07/02/2026
Job No.	25275

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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. STOCKPILES OF EXISTING DELETERIOUS MATERIAL OTHER THAN CONCRETE AND PAVEMENT SHALL BE STOCKPILED IN A SPOILS LOCATION SHOWN ON PLANS.
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 IN THE AREA OF WORK.
3. ALL UTILITY BOXES AND MAINTENANCE HOLES SHALL BE PROTECTED AND ADJUSTED TO FINISH GRADE, UNLESS OTHERWISE NOTED.
4. CLEAR AND GRUB SITE, TO EXTENTS 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.
7. DESIGN INTENT OF GRADING OPERATIONS IS A BALANCED SITE AND ASSUMES NO IMPORT OR EXPORT OF SOIL.

LEGEND

- REMOVE AND DISPOSE EXISTING CONCRETE, 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	PLANTER BED TO BE REMOVED
2	EXISTING TABLE AND BENCHES TO BE REMOVED
3	PROTECT IN PLACE, EXISTING TREE
4	PROTECT IN PLACE, EXISTING EXISTING VINE/PLANT MATERIAL
5	EXISTING GATE & ASSOCIATED POSTS TO BE REMOVED
6	PROTECT IN PLACE EXISTING IRRIGATION LINE AND HOSE BIBS
7	PROTECT IN PLACE, EXISTING CONCRETE PAD AND WATER SPIGOT
8	PROTECT IN PLACE, EXISTING BUILDING AND BUILDING FOUNDATION
9	PROTECT IN PLACE, EXISTING IMPROVEMENTS

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REVISIONS
No. Date Description

PROJECT

NEW JOSEPH BONNHEIM CHARTER SCHOOL

7300 MARIN AVE, SACRAMENTO, CA 95820

LICENSED LANDSCAPE ARCHITECT
THAIS DEL CASTILLO
No.4636
Signature
Exp. 05/30/27
STATE OF CALIFORNIA

DATE SIGNED: 07/02/26

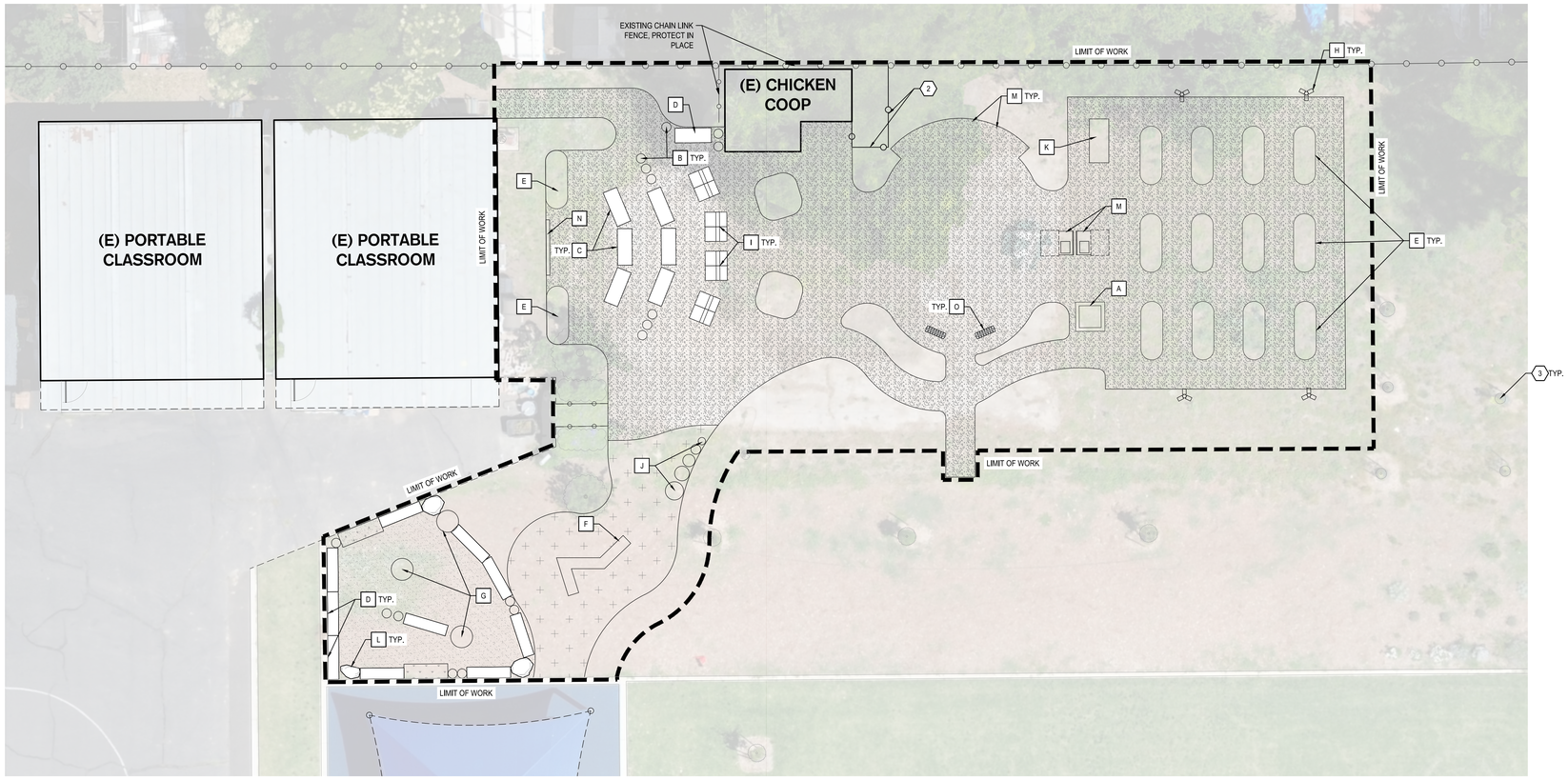
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EXISTING CONDITIONS & DEMOLITION PLAN

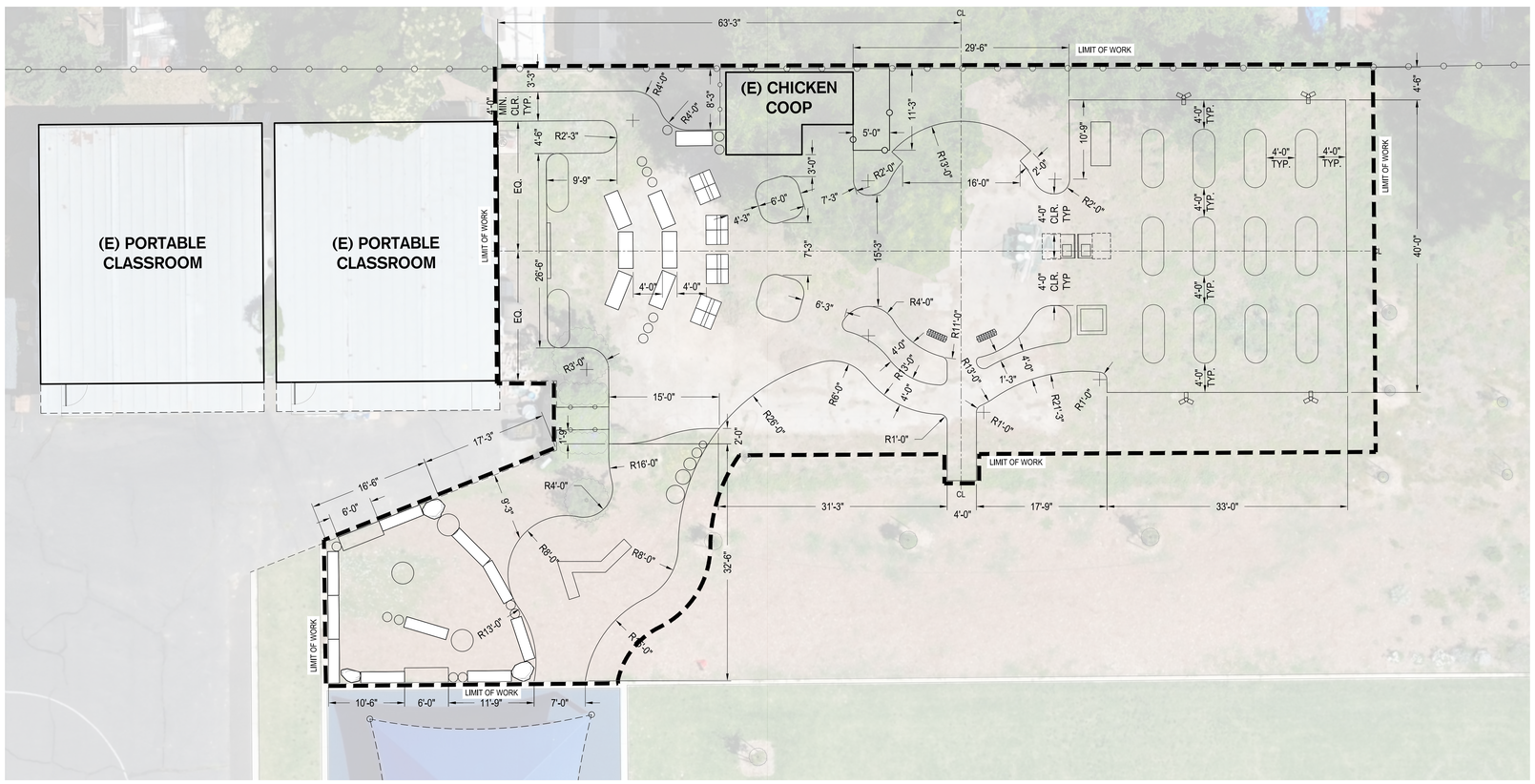
Proj Mgr	TDC
Drawn by	LLH/ONM
Date	07/02/2026
Job No.	25275

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AMENITIES PLAN



LAYOUT PLAN

GENERAL PAVING AND DIMENSIONING NOTES

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. BUILDINGS ARE SHOWN FOR REFERENCE ONLY.
3. 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 L3.0

NOTES

DESCRIPTION

DECOMPOSED GRANITE
4" 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 3 ON SHEET L3.0.

PLAY SAND
SEE DETAIL 2 ON SHEET L3.0

ENGINEERED WOOD FIBER
12" THICK LAYER OF ENGINEERED WOOD FIBER, SEE DETAIL 1 ON SHEET L3.0

SYNTHETIC TURF
SEE DETAIL 6 ON SHEET L3.0

KEY NOTES

1. INSTALL METAL HEADER PER DETAIL 4 ON SHEET L3.0
2. INSTALL 4' HIGH FENCE PER DETAIL 2 ON SHEET C4.0
3. EXISTING TREE TO REMAIN, PROTECT IN PLACE

SITE FURNISHINGS & AMENITIES

REFERENCE	SYMBOL	DESCRIPTION	MANUFACTURER / MODEL	COLOR / FINISH	DETAIL #/SHEET
A		ACCESSIBLE RAISED GARDEN BED (N) ACC - ACCESSIBLE	SEE SITE DETAILS	SEE SITE DETAILS	9/L3.0
B		LOG SEAT 12"± DIAMETER, SURFACE MOUNTED	BAY AREA REDWOOD CONTACT: NICK HARVEY, OFFICE: 925-421-0118, NICK@BAYAREAREDWOOD.COM	NATURAL WOOD SMOOTH	8/L3.0
C		STRIPPED WOOD LOG 5'± LONG, BACKLESS, SURFACE MOUNTED	BAY AREA REDWOOD CONTACT: NICK HARVEY, OFFICE: 925-421-0118, NICK@BAYAREAREDWOOD.COM	NATURAL WOOD SMOOTH	7/L3.0
D		STRIPPED WOOD LOG 6-10'± LONG, BACKLESS, SURFACE MOUNTED	BAY AREA REDWOOD CONTACT: NICK HARVEY, OFFICE: 925-421-0118, NICK@BAYAREAREDWOOD.COM	NATURAL WOOD SMOOTH	7/L3.0
E		METAL PLANTER 2' TALL, 8' LONG, 3' WIDE	OWNER FURNISHED		10/L3.0
F		FEATURE LOG	BAY AREA REDWOOD CONTACT: NICK HARVEY, OFFICE: 925-421-0118, NICK@BAYAREAREDWOOD.COM	N/A	-/-
G		LOG STUMP TABLE	BAY AREA REDWOOD CONTACT: NICK HARVEY, OFFICE: 925-421-0118, NICK@BAYAREAREDWOOD.COM	N/A	8/L3.0
ADD ALTERNATIVE #1					
H		BIRDHOUSE POLE	SEE SITE DETAILS	N/A	15/L3.0
I		CHILDREN'S DESKS	SEE SITE DETAILS	N/A	17/L3.0
J		FREE NOTES TUNED DRUMS	FREENOTES TUNED DRUMS	N/A	16/L3.0
K		WATER PLAY 1.5' TALL, 6' LONG, 2'-8" WIDE	COMMUNITY PLAYTHINGS OUTLAST CASCADE; ITEM NUMBER:W440	N/A	-/-
L		LANDSCAPE BOULDER	SEE SITE DETAILS	N/A	14/L3.0
M		KITCHEN UTILITY SINK 39.4"L X 23.6"W X 31.5"H	PUREZMMOTO	STAINLESS STEEL	11/L3.0
N		CHALKBOARD 4'X8' PANEL	NATURE'S INSTRUMENTS NI-PG-30X-01 IN-GROUND MOUNT	N/A	12/L3.0
O		CLEAR PAINT PANEL DIRECT BURY	LANDSCAPE STRUCTURES	LEAF	13/L3.0

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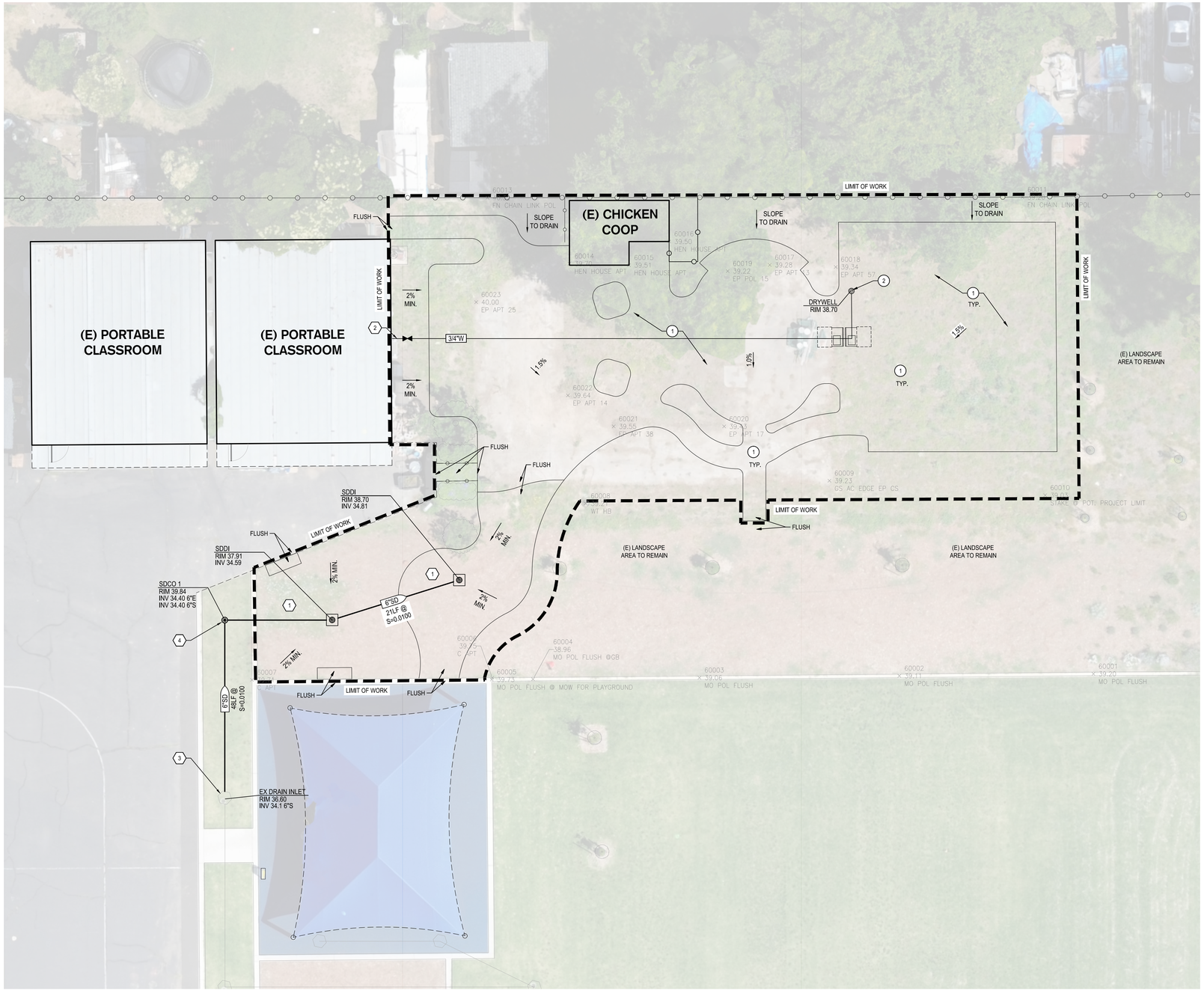
SHEET TITLE

PAVING AND SITE AMENITIES PLAN

Proj Mgr.	TDC
Drawn by	LLH/ONM
Date	07/02/2026
Job No.	25275

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GENERAL GRADING NOTES

1. ADJUST EXISTING UTILITIES TO GRADE UNLESS OTHERWISE NOTED.
2. DESIGN INTENT OF GRADING OPERATIONS IS A BALANCED SITE AND ASSUMES NO IMPORT OR EXPORT OF SOIL.
3. MAXIMUM SLOPE SHALL BE 3:1.
4. ACCESSIBLE ROUTE, CHANGE IN DIRECTION ON THE ACCESSIBLE ROUTE, ACCESSIBLE RAMPS AND LANDINGS SHALL COMPLY WITH THE MOST CURRENT CBC CHAPTER 11B REQUIREMENTS.
5. MAINTAIN EXISTING GRADE WITHIN DRIPLINE OF EXISTING TREES TO MAXIMUM EXTENT FEASIBLE.

LEGEND

1. SUBGRADE TO SLOPE TO DRAIN
2. FIELD VERIFY LOCATION OF EXISTING POTABLE WATER LINE AT EXISTING PORTABLE BUILDING.
3. FIELD VERIFY DRAIN INLET ELEVATION
4. CONTRACTOR TO FIELD VERIFY EXISTING GRADES PRIOR TO DETERMINING FINAL RIM ELEVATION AND NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES

KEYNOTES

1. 2% MAX IN ANY DIRECTION
2. 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
3. INSTALL STORM DRAIN CLEANOUT PER DETAIL 3 ON SHEET C4.0
4. CONNECT WATER LINE TO PROPOSED KITCHEN PER MANUFACTURER REQUIREMENTS
5. INSTALL GATE VALVE WITH CHRISTY G08 TRAFFIC RATED BOX OR APPROVED EQUAL PER DETAIL 1 ON SHEET C4.0.

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 LANDSCAPE ARCHITECT OF RECORD IMMEDIATELY OF CONFLICTS.
4. CONTRACTOR TO COORDINATE UTILITY WORK WITH DISTRICT PRIOR TO CONSTRUCTION.

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95820

LICENSED LANDSCAPE ARCHITECT
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No.4836
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STATE OF CALIFORNIA

DATE SIGNED: 07/02/26

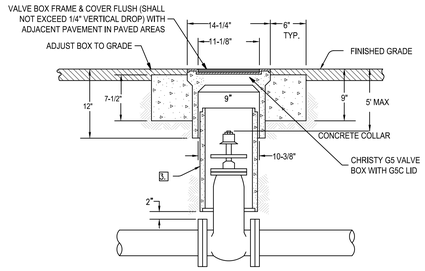
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CONCEPTUAL GRADING AND UTILITY PLAN

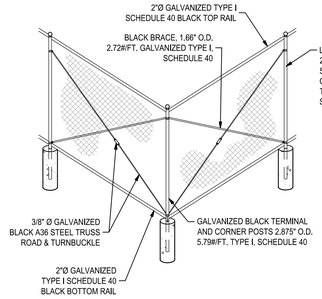
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Date	07/02/2026
Job No.	25275

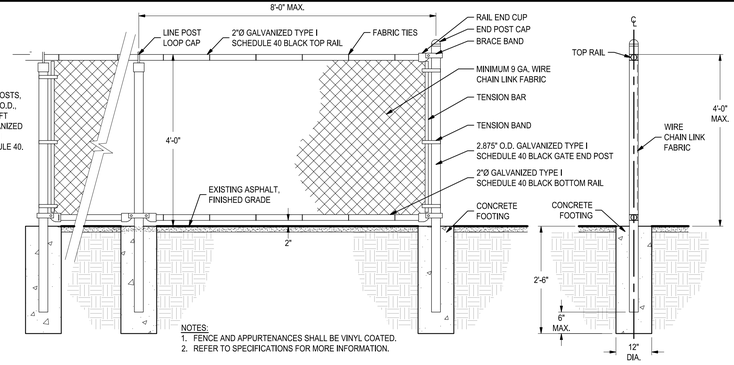
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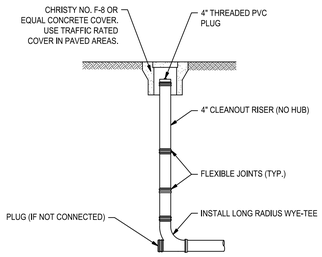


1 WATER VALVE
NO SCALE





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



3 CLEANOUT
NO SCALE

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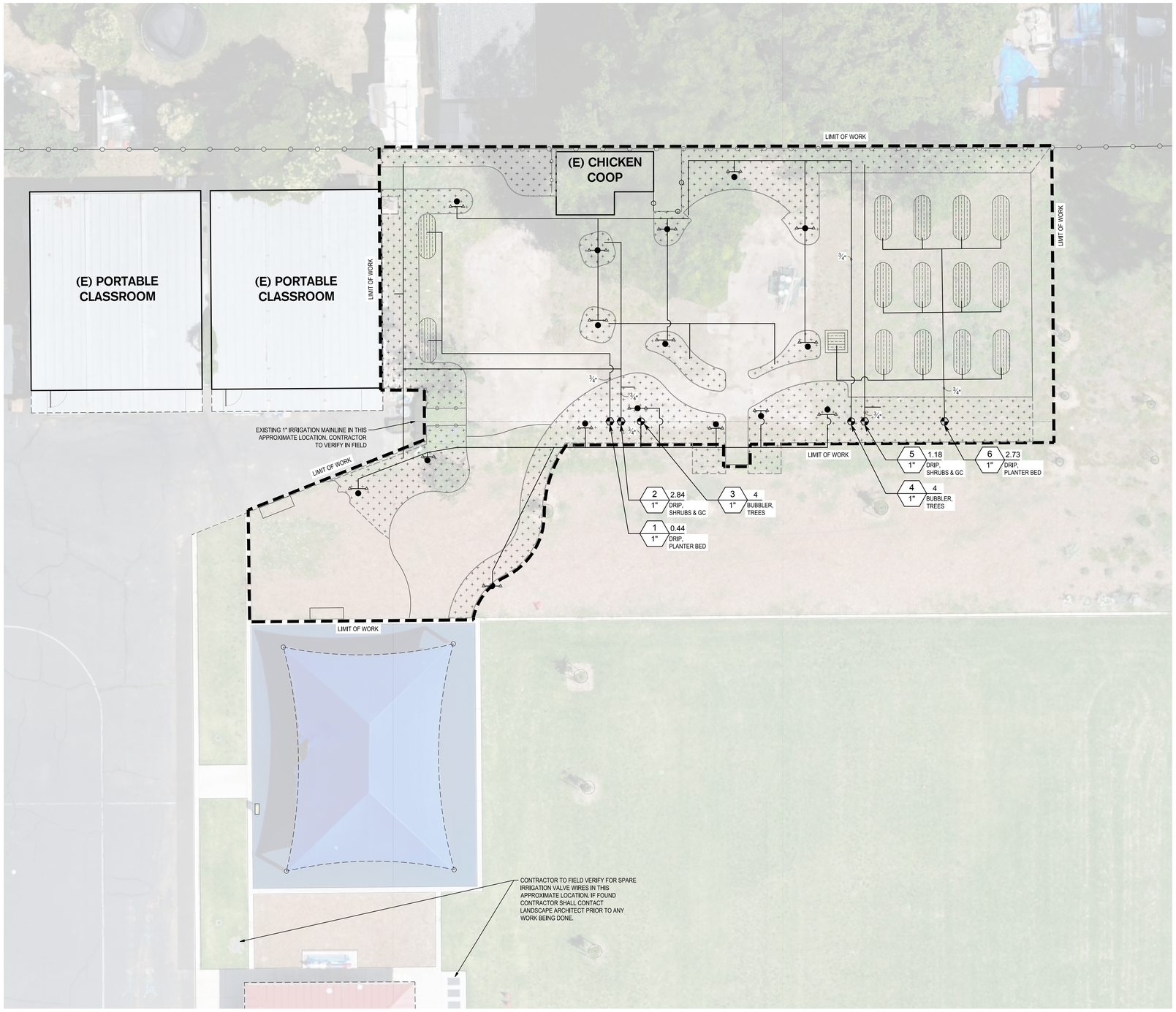
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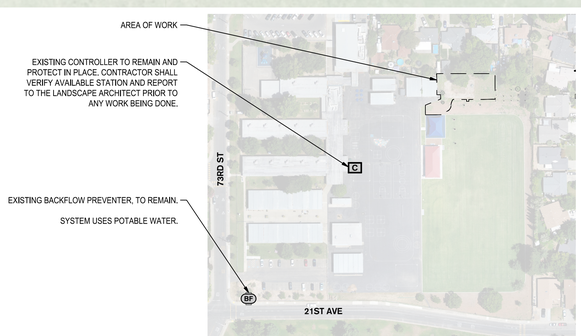
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CAMPUS PLAN

N.T.S.

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IRRIGATION LEGEND

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
△	Deep Root Bubblers Hunter RZWS-36-CV 36in. long RZWS with installed .25 gpm bubbler options, Check Valve, 1/2in. swing joint for connection to 1/2in. pipe	32	20

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
(F)	Flush Valve 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.	AS REQ'D
(A)	Air Relief Valve Hunter PLD-AVR PLD-AVR allows for air to escape a drip irrigation system to prevent blockage and water hammering. 1/2in. MPT connection with 80 PSI maximum rating.	AS REQ'D
(DI)	Drip Indicator Hunter ECO-ID-12 ECO-ID: 1/2in. FPT connection with 15 psi - 100 psi operating pressure. Specify with Hunter SJ swing joint.	AS REQ'D
	Area to Receive Drip Emitters Point Source for Shrubs and Groundcovers Point Source Drip Emitter with Self Piercing Barb. Color coded emitters for flow rates of 0.5 GPH, 1.0 GPH, 2.0 GPH, 4.0 GPH, and 6.0 GPH. Can be inserted into 1/2in. and 3/4in. tubing and have pressure compensating from 15 PSI-50 PSI. Emitter Notes: 05 emitters (2 assigned to each 1 gal plant)	2,253 sf 424
	10 emitters (2 assigned to each 5 gal plant)	30
	Area to Receive Dripline Dripline for Planter Beds Hunter HDL-06-12-CV HDL-06-12-CV: Hunter Dripline w/ 0.6 GPH emitters at 12" O.C. Check valve, dark brown tubing with gray striping. Dripline laterals spaced at 12" apart, with emitters offset for triangular pattern. Install with Hunter PLD-LOC fittings.	315.4 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
C	Existing Controller Existing Hunter ACC2 - 24 Station Controller Controller to be assembled in stainless steel strongbox wall mount enclosure with model#: A2C-1200-SS with A2C-LAN, ROAMXL-KIT, and 12-station expansion module. Ethernet modem, roam smart port, and ROAMXL transmitter, receiver, and carrying case.	1
	Irrigation Lateral Line: PVC Schedule 40	818.2 lf
	Irrigation Mainline: PVC Schedule 40 Existing 1" SCH40 PVC mainline, contractor to verify in field.	113.6 lf

Valve Callout
- Valve Number
- Valve Flow
- Valve Size

PROPOSED TREE REFERENCE

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 5 GPM. THE CONTRACTOR IS TO PERFORM A STATIC AND DYNAMIC PRESSURE TEST; VERIFY AT LEAST 31 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. IF PRESSURE DOES NOT MEET REQUIREMENTS AND IRRIGATION EQUIPMENT DOES NOT OPERATE PROPERLY AND PROVIDE PROPER COVERAGE, THEN A BOOSTER PUMP WILL BE INSTALLED.
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.
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 MAIN LINE AND LATERAL PIPING UNDER HARDSCAPE. PROVIDE A MINIMUM OF 18" COVER OVER ALL MAIN LINE, AND 12" COVER OVER ALL LATERAL 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 OR IRRIGATION EQUIPMENT 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.

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 06/19/2026

THAIS DEL CASTILLO, RLA 4836 DATE

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SHEET TITLE

IRRIGATION PLAN

Proj Mgr	TDC
Drawn by	LLH/ONM
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Job No.	25275

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REFERENCE DATA

Nearest data location:	Sacramento

Reference Eto (in./m o.)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	1.59	2.20	3.66	5.08	6.83	7.80	8.67	7.81	5.67	4.03	2.13	1.59
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./m o.)	**0.00**	**0.00**	**2.02**	**4.12**	**6.64**	**7.80**	**8.67**	**7.81**	**5.66**	**3.49**	**0.76**	**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	Raised Planter	0.2	1.0	1.0	0.20	Drip	0.85	1.00	Clay Loam	0.2	0.18	12	2.16	50%	1.08
2	Shrubs & Groundcovers	0.2	1.0	1.0	0.20	Drip	0.85	1.00	Clay Loam	0.2	0.18	12	2.16	50%	1.08
3	Trees	0.2	1.0	1.0	0.20	Bubbler	0.80	1.00	Clay Loam	0.2	0.18	12	2.16	50%	1.08
4	Trees	0.2	1.0	1.0	0.20	Bubbler	0.80	1.00	Clay Loam	0.2	0.18	12	2.16	50%	1.08
5	Shrubs & Groundcovers	0.2	1.0	1.0	0.20	Drip	0.85	1.00	Clay Loam	0.2	0.18	12	2.16	50%	1.08
6	Raised Planter	0.2	1.0	1.0	0.20	Drip	0.85	1.00	Clay Loam	0.2	0.18	12	2.16	50%	1.08

Model Ordinance Area Calculations

HA (SqFt)	% of landscape area
22	0.76%
1254	43.54%
200	6.94%
200	6.94%
932	32.36%
272	9.44%
Total: 2880	100%

Legend: Ks=species coefficent, Kd=density coefficent, Kmc-micro-climate coefficient, KL=landscape coefficient, IE= irrigation efficiency; PR = precipitation rate, BIR = basic intake rate, AW = available water, RZ = root zone, PAW = plant available water, MAD = managed allowable depletion (%), AD = allowable depletion (inches).

REFERENCE SCHEDULE

Zone	Description	Temporary?		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	Raised Planter	N	Irr. Days / Wk	0	0	1	3	3	4	4	4	4	1	1	0
			Cycles / Day	0	0	1	1	1	1	1	1	1	1	1	0
	Max. Minutes / Cycle 12		Min. / Cycle	0	0	7	5	8	7	7	7	5	12	3	0
2	Shrubs & Groundcovers	N	Irr. Days / Wk	0	0	1	3	3	4	4	4	4	1	1	0
			Cycles / Day	0	0	1	1	1	1	1	1	1	1	1	0
	Max. Minutes / Cycle 12		Min. / Cycle	0	0	7	5	8	7	7	7	5	12	3	0
3	Trees	N	Irr. Days / Wk	0	0	1	3	3	4	4	4	4	1	1	0
			Cycles / Day	0	0	1	1	1	1	1	1	1	1	1	0
	Max. Minutes / Cycle 12		Min. / Cycle	0	0	7	5	8	7	8	7	5	12	3	0
4	Trees	N	Irr. Days / Wk	0	0	1	3	3	4	4	4	4	1	1	0
			Cycles / Day	0	0	1	1	1	1	1	1	1	1	1	0
	Max. Minutes / Cycle 12		Min. / Cycle	0	0	7	5	8	7	8	7	5	12	3	0
5	Shrubs & Groundcovers	N	Irr. Days / Wk	0	0	1	3	3	4	4	4	4	1	1	0
			Cycles / Day	0	0	1	1	1	1	1	1	1	1	1	0
	Max. Minutes / Cycle 12		Min. / Cycle	0	0	7	5	8	7	7	7	5	12	3	0
6	Raised Planter	N	Irr. Days / Wk	0	0	1	3	3	4	4	4	4	1	1	0
			Cycles / Day	0	0	1	1	1	1	1	1	1	1	1	0
	Max. Minutes / Cycle 12		Min. / Cycle	0	0	7	5	8	7	7	7	5	12	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	0.9	0.6	1.0	0.9	0.9	0.9	0.6	1.5	0.4	0.0

Total Irrigation System Runtime (normal operation)

Maximum system runtime per irrigation day (single-station operation)	Hrs	0.0	0.0	0.6	0.4	0.7	0.6	0.6	0.6	0.4	1.0	0.3	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 Effeciency
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	2,880 SF
MAXIMUM APPLIED WATER ALLOWANCE (MAWA)	44,354 GALLON/YR
ESTIMATED TOTAL WATER USE (ETWU)	24,337 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 2,880) + ((.55) X 0)]
= (55.2) (0.62) [(1,296) + (0)]
= (55.2) (0.62) (1,296)

TOTAL MAXIMUM APPLIED WATER ALLOWANCE (MAWA): 44,354 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) (2,186) (.62) / (0.81)	=	18,473 Gallons per year
TREE BUBBLER (Low water use-Bubblers)	(55.2) (.20) (400) (.62) / (0.81)	=	3,380 Gallons per year
COMMUNITY GARDEN (Medium water use-Drip)	(55.2) (.20) (294) (.62) / (0.81)	=	2,484 Gallons per year

TOTAL ESTIMATED WATER USE (ETWU): 24,337 Gallons per year

SUMMARY:

(ETWU): 24,337 Gallons Per Year IS LESS THAN (MAWA): 44,354 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 = 2,880 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

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- PLANNING
- ATHLETIC FACILITY DESIGN
- GEOTECHNICAL

REVISIONS
No. Date Description

PROJECT

NEW JOSEPH BONNHEIM CHARTER SCHOOL

7300 MARIN AVE,
SACRAMENTO, CA
95820

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

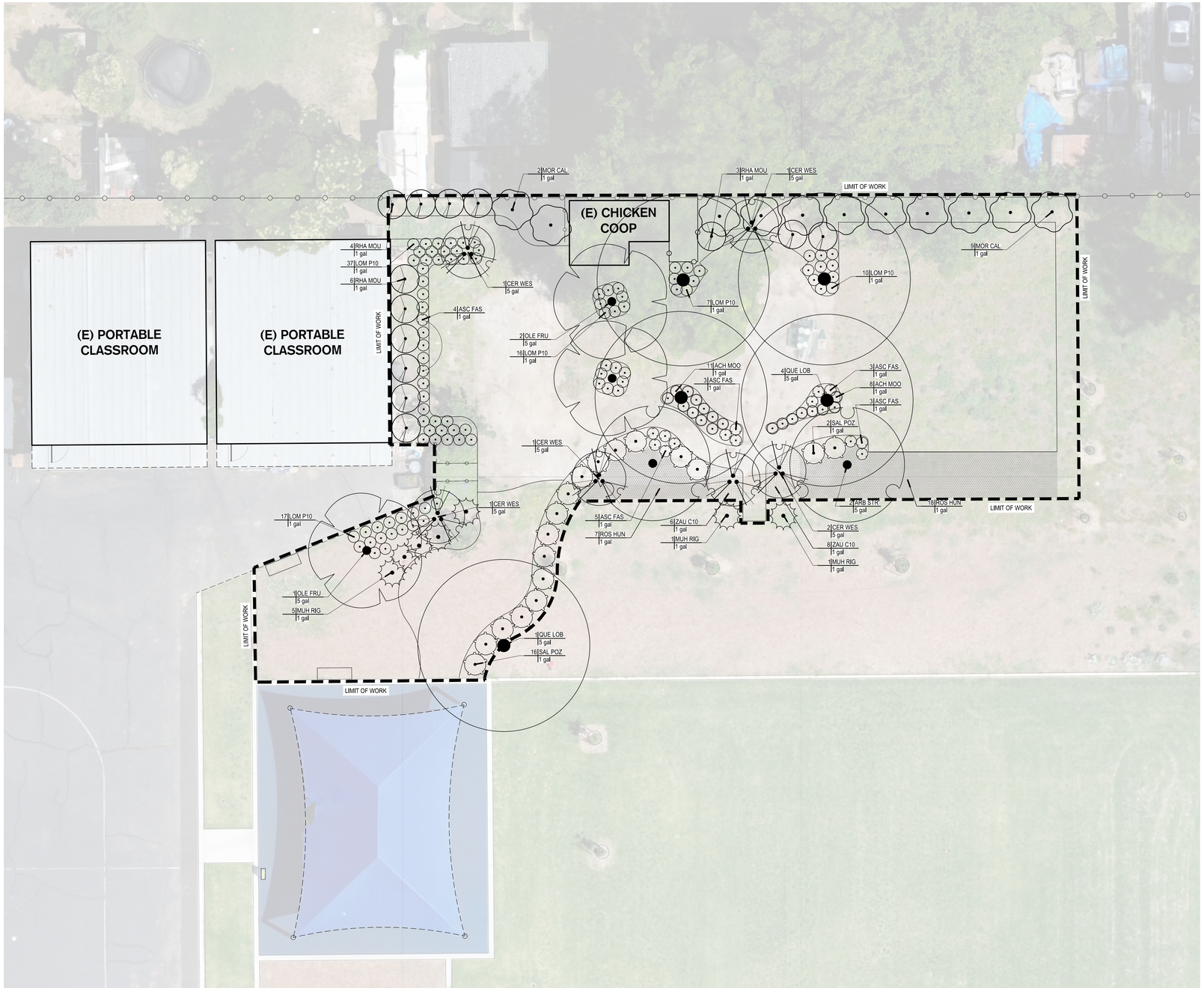
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SHEET TITLE

IRRIGATION CALCULATIONS

Proj Mgr TDC
Drawn by LLH/ONM
Date 07/02/2026
Job No. 25275
Sheet: **L1.1**
of: 12

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PLANTING LEGEND

SYMBOL	CODE	BOTANICAL / COMMON NAME	CONT	WATER USE		QTY
TREES						
	ARB STR	Arbutus unedo / Strawberry Tree	5 gal	L		2
	CER WES	Cercis occidentalis / Western Redbud Multi-trunk	5 gal	L		6
	OLE FRU	Olea europaea 'Fruitless' / Fruitless Olive	5 gal	L		3
	QUE LOB	Quercus lobata / Valley Oak	5 gal	L		5
SHRUBS						
	ACH MOO	Achillea x 'Moonshine' / Moonshine Yarrow	1 gal	L		19
	ASC FAS	Asclepias fascicularis / Narrowleaf Milkweed	1 gal	L		18
	LOM P10	Lomandra longifolia 'Platinum Beauty' / Platinum Beauty Dwarf Mat Rush	1 gal	L		87
	MOR CAL	Morella californica / California Wax Myrtle	1 gal	M		11
	MUH RIG	Muhlenbergia rigens / Deer Grass	1 gal	L		7
	RHA MOU	Rhamnus californica 'Mound San Bruno' / Mound San Bruno Coffeeberry	1 gal	L		13
	SAL POZ	Salvia clevelandii 'Pozo Blue' / Pozo Blue Cleveland Sage	1 gal	L		18

SYMBOL	CODE	BOTANICAL / COMMON NAME	CONT	WATER USE	SPACING	QTY
GROUND COVERS						
	ROS HUN	Rosmarinus officinalis 'Huntington Carpet' / Huntington Carpet Rosemary	1 gal	L	54" o.c.	25
	ZAU C10	Zauschneria californica 'Calistoga' / Calistoga California Fuchsia	1 gal	L	30" o.c.	14

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 (OR HAND CULTIVATED UNDER EXISTING TREES) TO A DEPTH OF 8". TAKE CARE NOT TO DAMAGE ROOTS.
8. THE CONTRACTOR TO BE RESPONSIBLE TO SUBMIT 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. TREES ARE TO BE STAKED PER DETAIL.
13. TRIANGULAR SPACING FOR GROUND COVER PLANTING BEDS.

Know what's **below.**
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0' 4' 8' 16'
SCALE: 1"=8'

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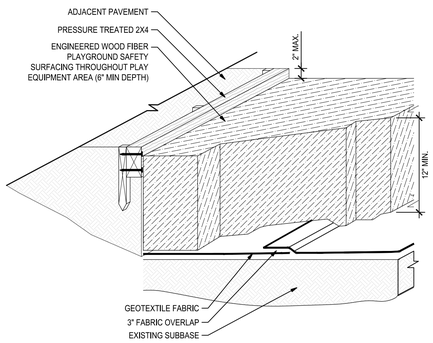
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PLANTING PLAN

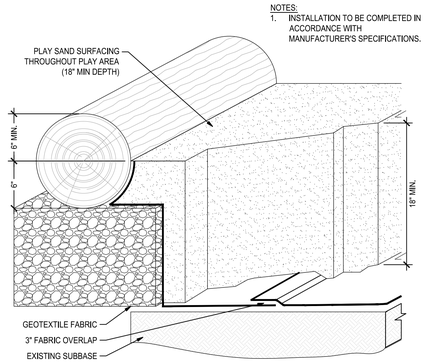
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Drawn by	LLH/ONM
Date	07/02/2026
Job No.	25275

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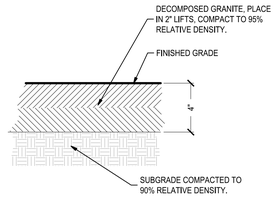
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1 ENGINEERED WOOD FIBER
NO SCALE

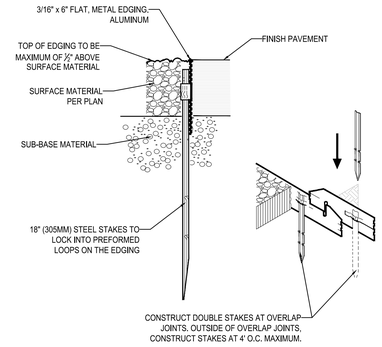


2 SAND PLAY AREA
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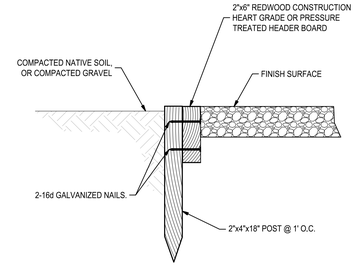


NOTES:
1. REFER TO SPECIFICATIONS FOR ADDITIONAL DECOMPOSED GRANITE AND BINDER INFORMATION.
2. EDGES SHALL BE BOUND BY METAL HEADER PER THIS SHEET, DETAIL 4. EDGES ABUTTING RIGID PAVING DO NOT REQUIRE HEADER.

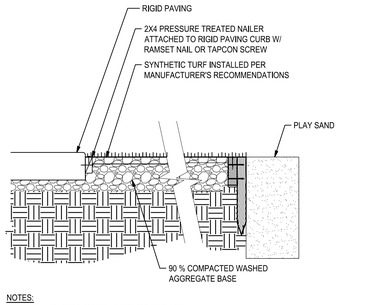
3 DECOMPOSED GRANITE
NO SCALE



4 METAL EDGING
NO SCALE



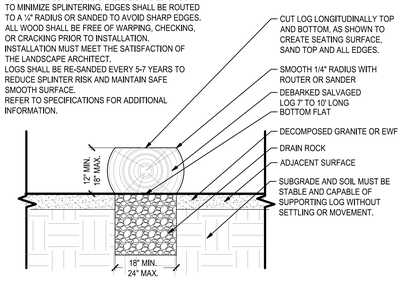
5 WOODEN HEADER
NO SCALE



NOTES:
1. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

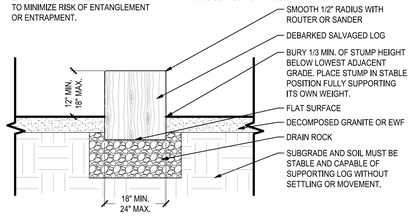
6 SYNTHETIC TURF
NO SCALE

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 ¼" 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.



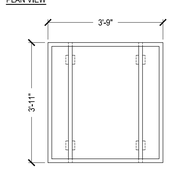
7 FIXED LOG SEATING
1/2" = 1'-0"

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.

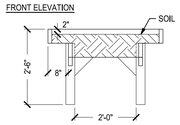


8 FIXED TREE ROUND SEATING
1/2" = 1'-0"

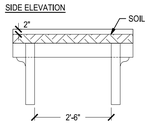
PLAN VIEW



FRONT ELEVATION



SIDE ELEVATION



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.

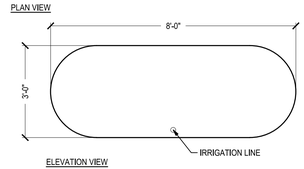
DESIGN NOTES:
A. DESIGNED IN COLLABORATION WITH THE SUPERVISING ARCHITECT FOR THE STATE OF CALIFORNIA EDUCATION DEPARTMENT, "ACCESSIBLE GARDENS" OFFERS THE ONLY DSA-APPROVED ACCESSIBLE RAISED PLANTER BED. IT PROVIDES EASY ACCESSIBILITY TO THE GARDEN BED FOR ADULTS AND CHILDREN IN WHEELCHAIRS IN A COMFORTABLE, 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.

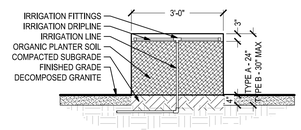
MAINTENANCE NOTES:
A. PERIODIC SANDING AND STAINING TO IMPROVE LONGEVITY.
B. PERFORM ANNUAL CHECK OF JOINTS AND FASTENERS, TIGHTEN IF NECESSARY.
C. TURN OVER SOIL WITH EACH GROWING SEASON TO PROPERLY AERATE AND LOOSEN THE SOIL TO FACILITATE ROOT GROWTH.
D. REPLACE SOIL EVERY FEW YEARS FOR BEST RESULTS.

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

PLAN VIEW

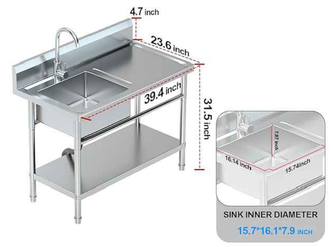


ELEVATION VIEW



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

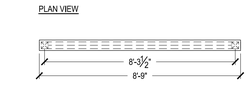
10 STEEL PLANTER BED
NTS



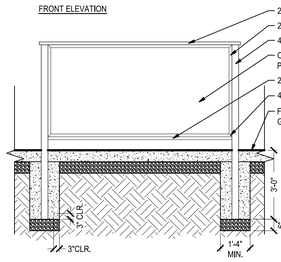
NOTE:
1. MANUFACTURER: PUREZMMOTO, MODEL # SINK 00221-02, OR APPROVED EQUAL
2. CONNECT DRAIN TO DRYWELL.
3. PIPES TO BE INSULATED.
4. INSTALL P-TRAP AT SINK DRAIN.
5. ENSURE SINK MEETS ACCESSIBILITY REQUIREMENTS

11 ADD ALTERNATE - OUTDOOR KITCHEN COUNTER SINK
NTS

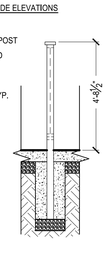
PLAN VIEW



FRONT ELEVATION



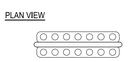
SIDE ELEVATIONS



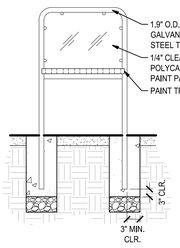
NOTES:
A. NATURE'S INSTRUMENTS CREATIVE PANELS MODEL #: NI-PG-30X-01
B. INSTALL PER MANUFACTURER'S RECOMMENDATIONS

12 ADD ALTERNATE - CREATIVE PANELS - NATURE'S INSTRUMENTS
3/8" = 1'-0"

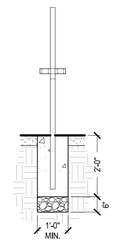
PLAN VIEW



FRONT ELEVATION

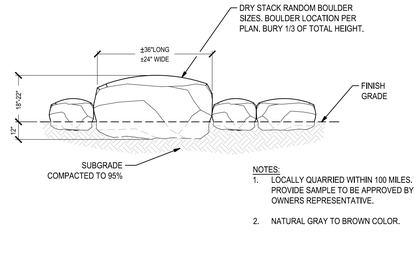


SIDE ELEVATION



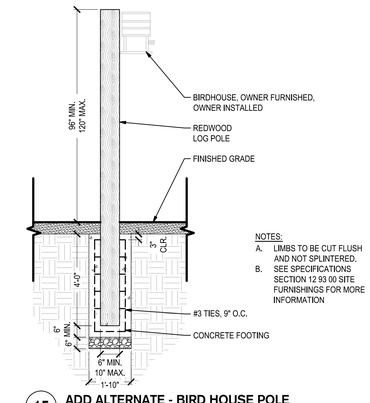
NOTES:
A. MANUFACTURER: LANDSCAPE STRUCTURES CLEAR PAINT PANEL - MODEL #112621
B. INSTALL PER MANUFACTURER'S RECOMMENDATIONS

13 ADD ALTERNATE - CLEAR PAINT PANEL
1/2" = 1'-0"



NOTES:
1. LOCALLY QUARRIED WITHIN 100 MILES. PROVIDE SAMPLE TO BE APPROVED BY OWNERS REPRESENTATIVE.
2. NATURAL GRAY TO BROWN COLOR.

14 ADD ALTERNATE - LANDSCAPE BOULDER
NO SCALE



NOTES:
A. LIMBS TO BE CUT FLUSH AND NOT SPLINTERED.
B. SEE SPECIFICATIONS SECTION 12 93 00 SITE FURNISHINGS FOR MORE INFORMATION

15 ADD ALTERNATE - BIRD HOUSE POLE
3/8" =1'-0"

Parts List:

ITEM NO.	DESCRIPTION	QTY.	NORMAL FINISHED HEIGHT	TODDLER FINISHED HEIGHT
1	Ø 15" In Ground Tuned Drum	1	37"	29"
2	Ø 12" In Ground Tuned Drum	1	35"	27.5"
3	Ø 10" In Ground Tuned Drum	1	33"	26"
4	Ø 8" In Ground Tuned Drum	1	31"	24.5"
5	Ø 6" In Ground Tuned Drum	1	29"	23"

Step 1: Arrange Drums in desired location and pattern. Drums can be laid out in any configuration desirable, but must be installed less than 3" or greater than 9" apart. WARNING: Between 3" and 9" there lies a chance for a child's head to get stuck. **(Reference: US Consumer Product Safety Commission, Public Playground Safety Handbook)**

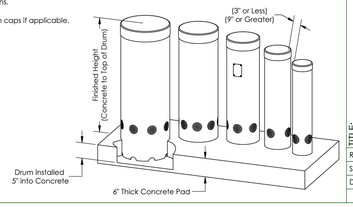
Step 2: Determine border of trench for concrete pad. Trench should be a minimum of 6" deep. Concrete pad should perform under local soil and weather conditions.

Step 3: Excavate trench to required depth. Check levelness of trench then pour concrete and fill trench completely per code requirements. Immediately after the concrete has been poured, drive the Tuned Drums into the wet concrete per your chosen layout.

Step 4: The bottom edge of the Drum Bases are scalloped to assist in their installation into the concrete. Twist Drums into concrete to a depth of 5". Check for plumbness. If needed brace the Drums to keep them rigid and in place during the curing process. Leave to set according to the concretemanufacturer's guidelines.

Step 5: Check for sufficient clearance around instruments. A 36" clearance is recommended around the the entire Drum arrangement for wheelchair accessibility, however this is not required for proper function. Drums may also be installed next to a wall or in a variety of different configurations.

Step 6: Remove plastic film from drum caps if applicable.



Freenotes Harmony Park
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TITLE: In Ground Installation with Parts List
DWG. NO. TD-INSTALL
REVISION: A
SCALE: 1:16
DATE: 2/9/2018
SHEET 2 OF 3

16 ADD ALTERNATE - TUNED DRUMS
NTS



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 STAINLESS STEEL. ALL SCREWS SHALL BE PRE-DRILLED. EXPOSED FASTENERS SHALL BE ALIGNED AND EVENLY SPACED. 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.

17 ADD ALTERNATE - CHILDREN'S DESK
NO SCALE

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3428 Brookside Road
Stockton,California 95219
209-943-2021
Fax: 209-942-0214
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- STRUCTURAL
- LANDSCAPE ARCHITECTURE
- SURVEYING
- PLANNING
- ATHLETIC FACILITY DESIGN
- GEOTECHNICAL

REVISIONS
No. Date Description

PROJECT

NEW JOSEPH BONNHEIM CHARTER SCHOOL

7300 MARIN AVE, SACRAMENTO, CA 95820

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

DATE SIGNED: 07/02/26

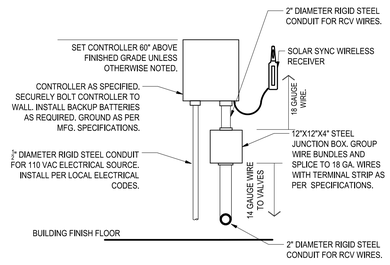
SHEET TITLE

SITE DETAILS

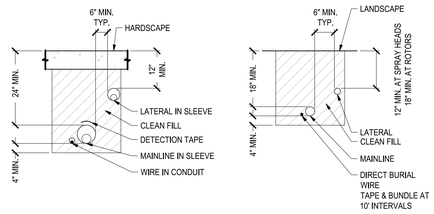
Proj Mgr	TDC
Drawn by	LLH/ONM
Date	07/02/2026
Job No.	25275

Sheet: **L3.0**
of: 12

F:\JOBPROJECTS\25275 SCUSD NEW JOSEPH BONNHEIM\PLANS AND GRAPHICS\IMPROVEMENT PLANS\25275 - L3.0 - SITE DETAILS.DWG 7/2/2026 2:49 PM

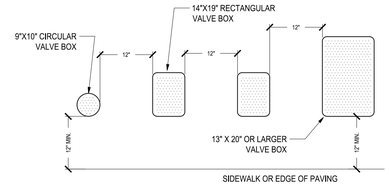


1 WALL-MOUNTED CONTROLLER
NO SCALE



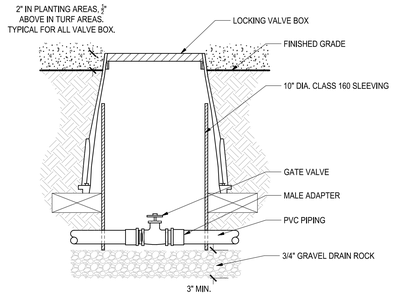
NOTES:
1. SLEEVE 24" BELOW ALL HARDSCAPE ELEMENTS WITH SCH. 40 PVC TWICE THE DIAMETER OF THE PIPE OR WIRE BUNDLE WITHIN. MAINLINE, LATERALS, AND WIRING SHALL BE IN SEPARATE SLEEVES.
2. TIE 24" LOOP IN ALL WIRING AT CHANGES OF DIRECTION OF 30° OR GREATER, UNTIE AFTER ALL CONNECTIONS HAVE BEEN MADE.
3.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

2 PIPE AND WIRE TRENCHING
NO SCALE

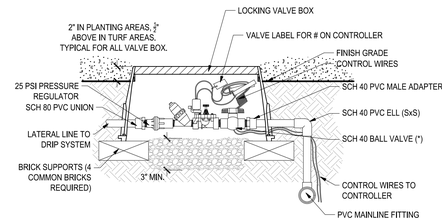


NOTES:
1. CENTER BOX OVER VALVE TO FACILITATE SERVICING VALVE.
2. SET BOXES 1" ABOVE FINISH GRADE OR MULCH COVER IN GROUND COVER/SHRUB AREA AND FLUSH WITH FINISH GRADE IN TURF AREA.
3. SET VALVE BOX ASSEMBLY IN GROUND COVER/SHRUB AREA WHERE POSSIBLE. INSTALL IN LAWN AREA ONLY IF GROUND COVER/SHRUB AREA 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.

3 VALVE BOX
NO SCALE

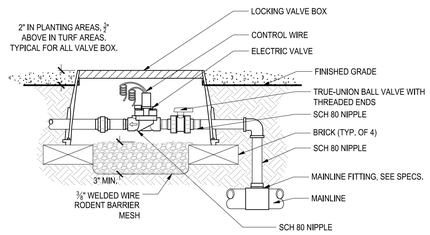


4 GATE VALVE
NO SCALE



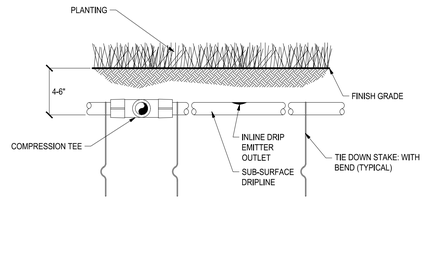
NOTES:
1. MIN. AND MAX. FLOW RATE - PER MANUFACTURER.
2. (*) PARTS IN DRIP ZONE KIT.
3. INSTALL WIRE MESH UNDER GRAVEL.

5 REMOTE CONTROL VALVE-DRIP
NO SCALE



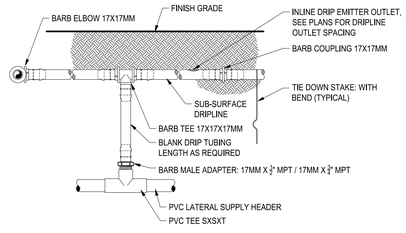
NOTE:
CONTRACTOR SHALL STABILIZE VALVE DURING INSTALLATION UNTIL BACKFILL IS COMPLETE.

6 REMOTE CONTROL VALVE WITH BALL VALVE
NO SCALE



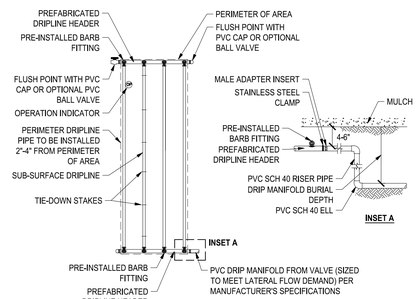
NOTE:
1. PLACE TIE DOWN STAKES EVERY THREE FEET IN SAND, FOUR FEET IN LOAM AND FIVE FEET IN CLAY.
2. AT FITTINGS WHERE THERE IS A CHANGE OF DIRECTION SUCH AS TEES OR ELBOWS, USE TIE-DOWN STAKES ON EACH LEG OF THE CHANGE OF DIRECTION.

7 SUB-SURFACE DRIPLINE STAKING
NO SCALE



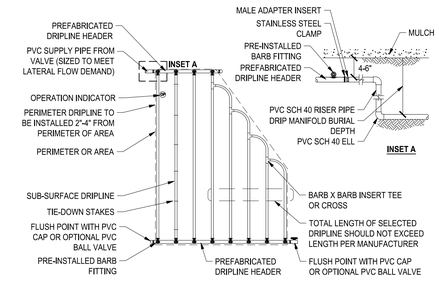
NOTE:
1. PLACE TIE DOWN STAKES EVERY THREE FEET IN SAND, FOUR FEET IN LOAM AND FIVE FEET IN CLAY.
2. AT FITTINGS WHERE THERE IS A CHANGE OF DIRECTION SUCH AS TEES OR ELBOWS, USE TIE-DOWN STAKES ON EACH LEG OF THE CHANGE OF DIRECTION.

8 SUB-SURFACE DRIPLINE - DRIPLINE RISER ASSEMBLY
NO SCALE



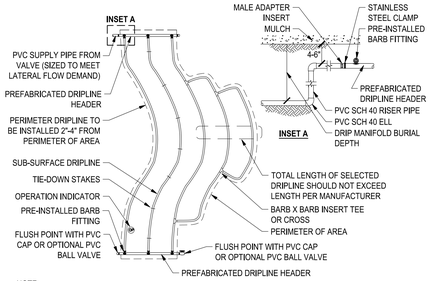
NOTE:
1. DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. SEE INSTALLATION SPECIFICATIONS PER MANUFACTURER.
2. LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM SPACING PER MANUFACTURER'S SPECIFICATIONS.

9 SUB-SURFACE DRIPLINE - END FEED LAYOUT
NO SCALE



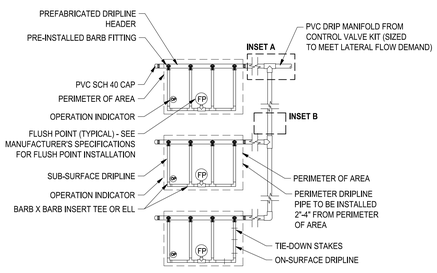
NOTE:
1. DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. SEE INSTALLATION SPECIFICATIONS PER MANUFACTURER.
2. LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM SPACING PER MANUFACTURER'S SPECIFICATIONS.
3. PLACE TIE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

10 SUB-SURFACE DRIPLINE - IRREGULAR SHAPED LAYOUT
NO SCALE



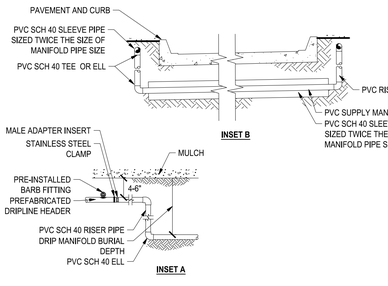
NOTE:
1. DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. SEE INSTALLATION SPECIFICATIONS PER MANUFACTURER.
2. LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM SPACING PER MANUFACTURER'S SPECIFICATIONS.
3. PLACE TIE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

11 SUB-SURFACE DRIPLINE - CURVED EDGE LAYOUT
NO SCALE

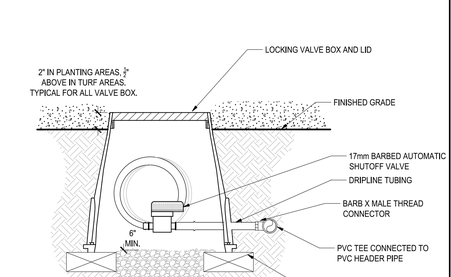


NOTE:
1. DISTANCE BETWEEN LATERAL ROWS AND EMITTER SPACING TO BE BASED ON SOIL TYPE, PLANT MATERIALS AND CHANGES IN ELEVATION. SEE INSTALLATION SPECIFICATIONS PER MANUFACTURER.
2. LENGTH OF LONGEST DRIPLINE LATERAL SHOULD NOT EXCEED THE MAXIMUM SPACING PER MANUFACTURER'S SPECIFICATIONS.

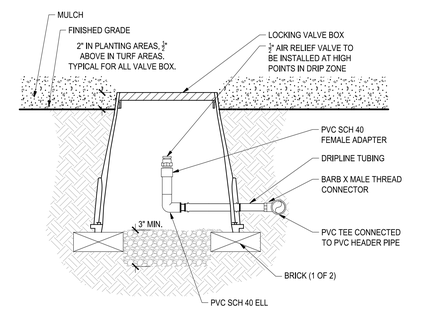
12 SUB-SURFACE DRIPLINE - TYPICAL ISLAND LAYOUT
NO SCALE



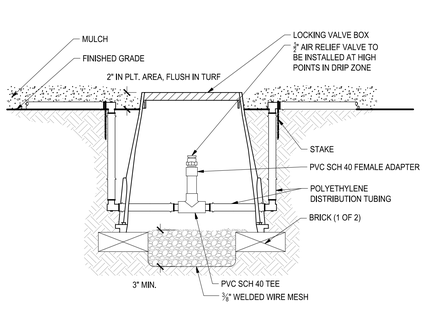
13 SUB-SURFACE DRIPLINE - CENTER FEED LAYOUT
NO SCALE



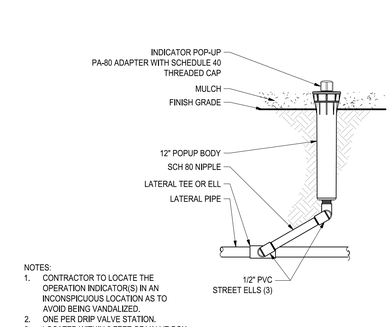
14 AUTOMATIC FLUSH VALVE
NO SCALE



15 AIR RELIEF VALVE
NO SCALE

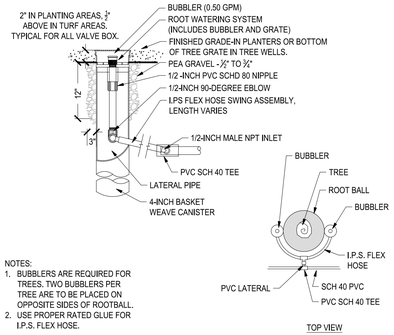


16 AIR RELIEF VALVE
NO SCALE



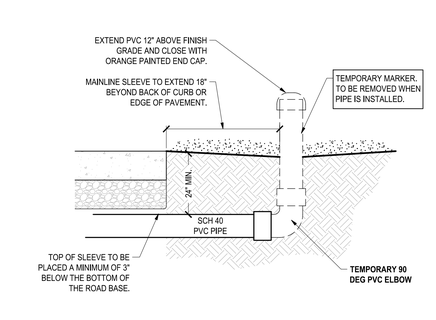
NOTES:
1. CONTRACTOR TO LOCATE THE OPERATION INDICATOR(S) IN AN INCONSPICUOUS LOCATION AS TO AVOID BEING VANDALIZED.
2. ONE PER DRIP VALVE STATION.
3. LOCATED WITHIN 8 FEET OF VALVE BOX.

17 DRIP SYSTEM OPERATION INDICATOR
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.

18 DEEP ROOT WATERING SYSTEM
NO SCALE



19 PIPE SLEEVE WITH 90 ELBOW
NO SCALE

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

REVISIONS

No.	Date	Description

PROJECT

NEW JOSEPH BONNHEIM CHARTER SCHOOL

7300 MARIN AVE,
SACRAMENTO, CA
95820

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

DATE SIGNED: 07/02/26

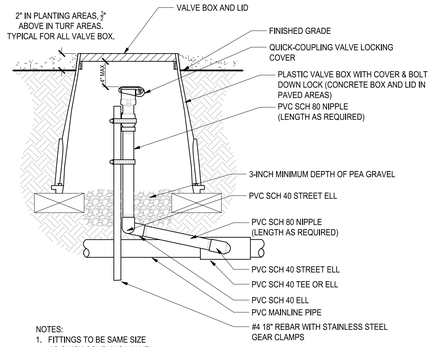
SHEET TITLE

IRRIGATION DETAILS

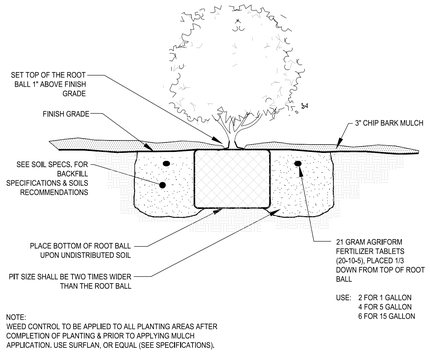
Proj Mgr	TDC
Drawn by	LLH/ONM
Date	07/02/2026
Job No.	25275

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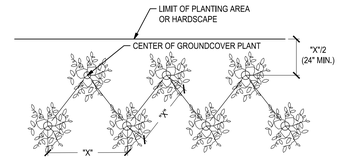
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1 QUICK COUPLER
NO SCALE

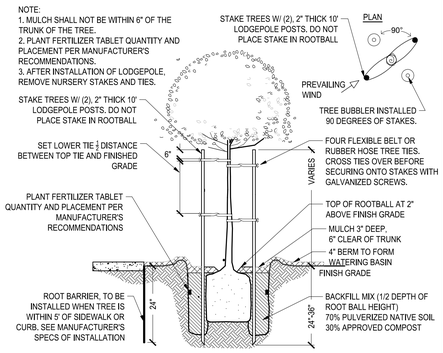


2 TYPICAL SHRUB PLANTING
NO SCALE



NOTES:
1. "X" REPRESENTS PLANT SPACING ON CENTER PER PLANTING PLAN.
2. AFTER ALL TREES, SHRUBS AND GROUNDCOVER HAVE BEEN PLANTED, A PRE-EMERGENT SPRAY SHALL BE APPLIED TO ALL PLANTING AREAS PER MANUFACTURER'S SPECIFICATIONS.

3 GROUNDCOVER SPACING
NO SCALE



4 TREE PLANTING & STAKING
NO SCALE

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REVISIONS

No.	Date	Description

PROJECT

NEW JOSEPH BONNHEIM CHARTER SCHOOL

7300 MARIN AVE, SACRAMENTO, CA 95820

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

DATE SIGNED: 07/02/26

SHEET TITLE

LANDSCAPE DETAILS

Proj Mgr	TDC
Drawn by	LLH/ONM
Date	07/02/2026
Job No.	25275

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of: 12

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