



City of
Los Banos
At the Crossroads of California

ADDENDUM NO. 1
October 8, 2024

Animal Shelter Renovations

The Landscape Plans for the Animal Shelter Renovations have been revised. Please see Exhibit A.

This Addendum forms a part of the Proposal Documents and will be incorporated into the Contract Documents, as applicable. All other conditions of the Contract Documents remain unchanged. The following changes, additions, or deletions as set forth herein shall apply to the Contract Documents and shall be made a part thereof and shall be subject to all the requirements thereof as through originally shown and/or specified.

Proposals shall be submitted in accordance with this Addendum. All consultants **MUST** acknowledge receipt of this Addendum by signing and returning this Addendum with your Proposal.

City of Los Banos

Firm Name: _____

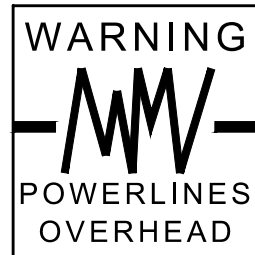
By: _____

Title: _____

Date: _____

 on behalf of:

By: Charles Bergson, P.E.
Public Works Director/City Engineer



City of Los Banos

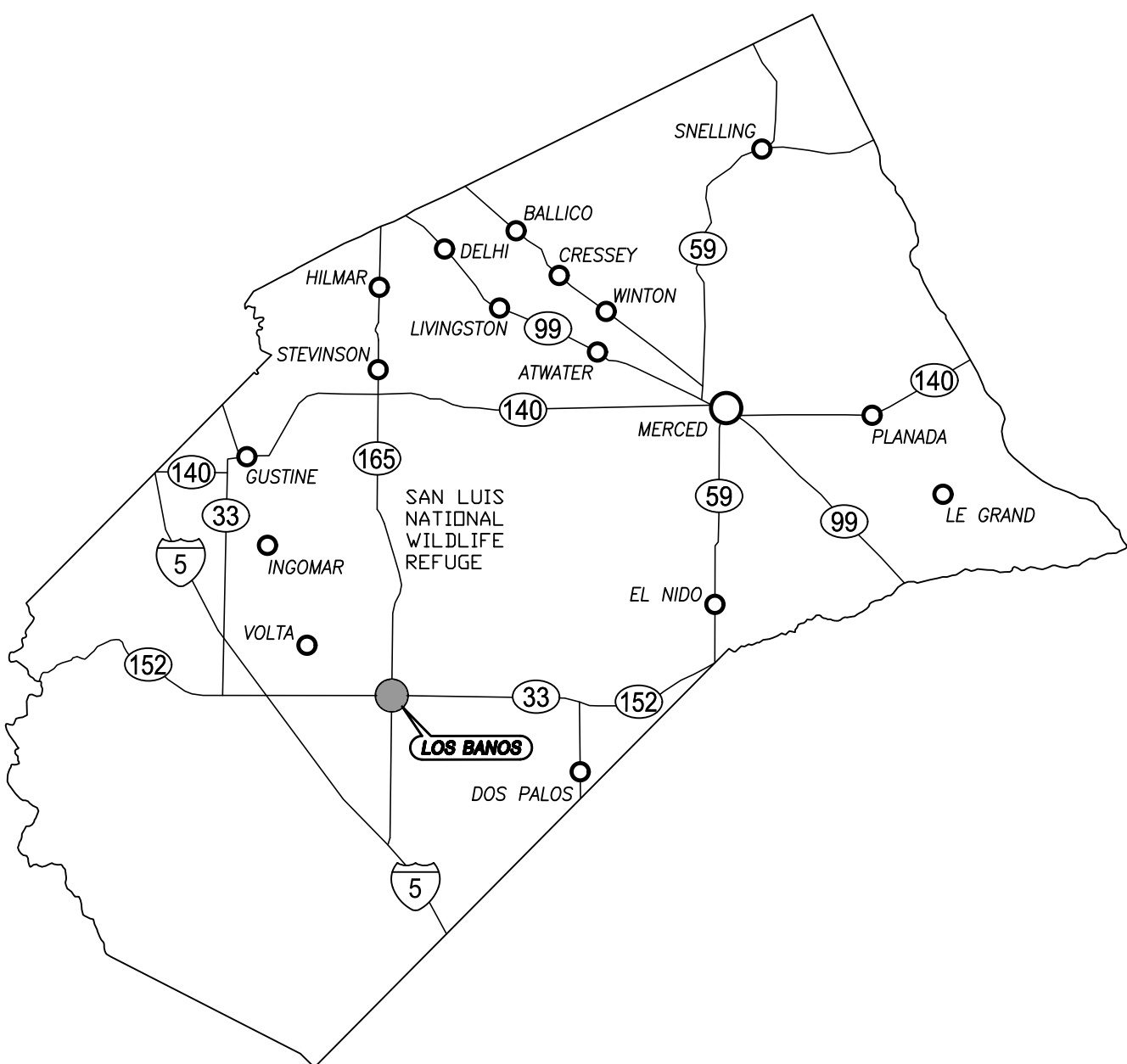
County of Merced

State of California

LOS BANOS ANIMAL SHELTER
LANDSCAPE PLANS



STATE MAP
NO SCALE



MERCED COUNTY
NO SCALE



LOCATION MAP

SCALE: 1"=500'

SHEET INDEX

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- 9 - IRRIGATION AND PLANTING DETAILS
- 10 - NOTES AND CALCULATIONS

DATE: 03/04/2024

APPLICANT: LOS BANOS ANIMAL SHELTER
1010 AIRPORT ROAD
LOS BANOS, CA 93635
(209) 827-7089

PROJECT LOCATION:
1010 AIRPORT ROAD

PROJECT AREAS:	
TOTAL PLANTING AREA	197 SF
TOTAL TURF AREA	2,910 SF
TOTAL LANDSCAPE AREA	3,107 SF

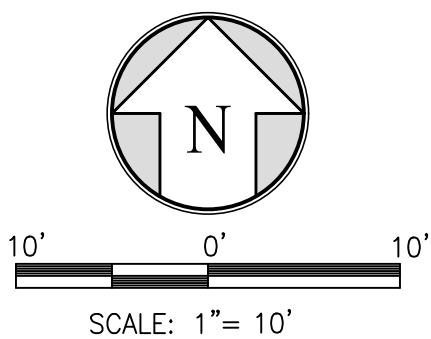
PROJECT TYPE: PUBLIC

WATER SUPPLY: POTABLE, CITY OF LOS BANOS

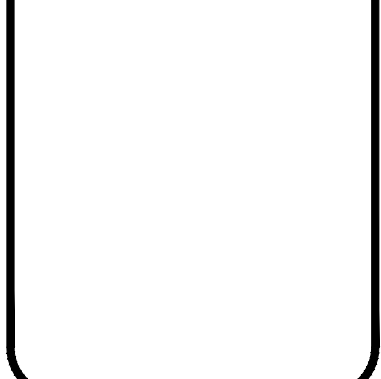
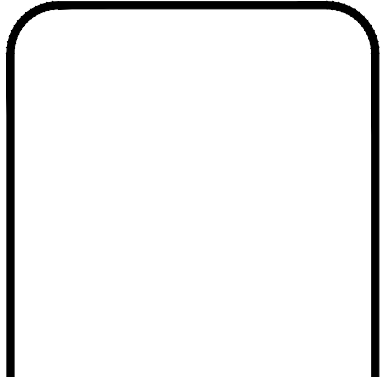
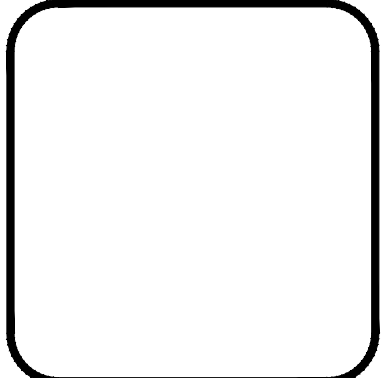
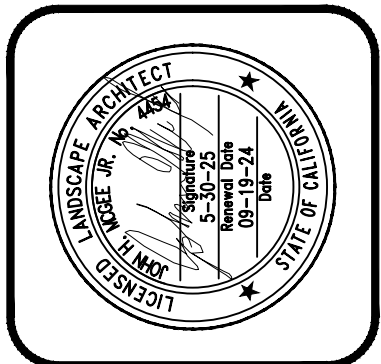
STATIC PRESSURE: FIELD VERIFY

AT THE TIME OF PROJECT TURNOVER, THE CONTRACTOR SHALL PROVIDE THE FOLLOWING:

- LANDSCAPE DOCUMENTATION PACKAGE
- a. CERTIFICATE OF COMPLETION BY THE REGISTERED LANDSCAPE ARCHITECT
 - b. SOILS MANAGEMENT REPORT
 - c. MAINTENANCE SCHEDULE
 - d. IRRIGATION SCHEDULE



REVISIONS		
NO.	DATE	DESCRIPTION

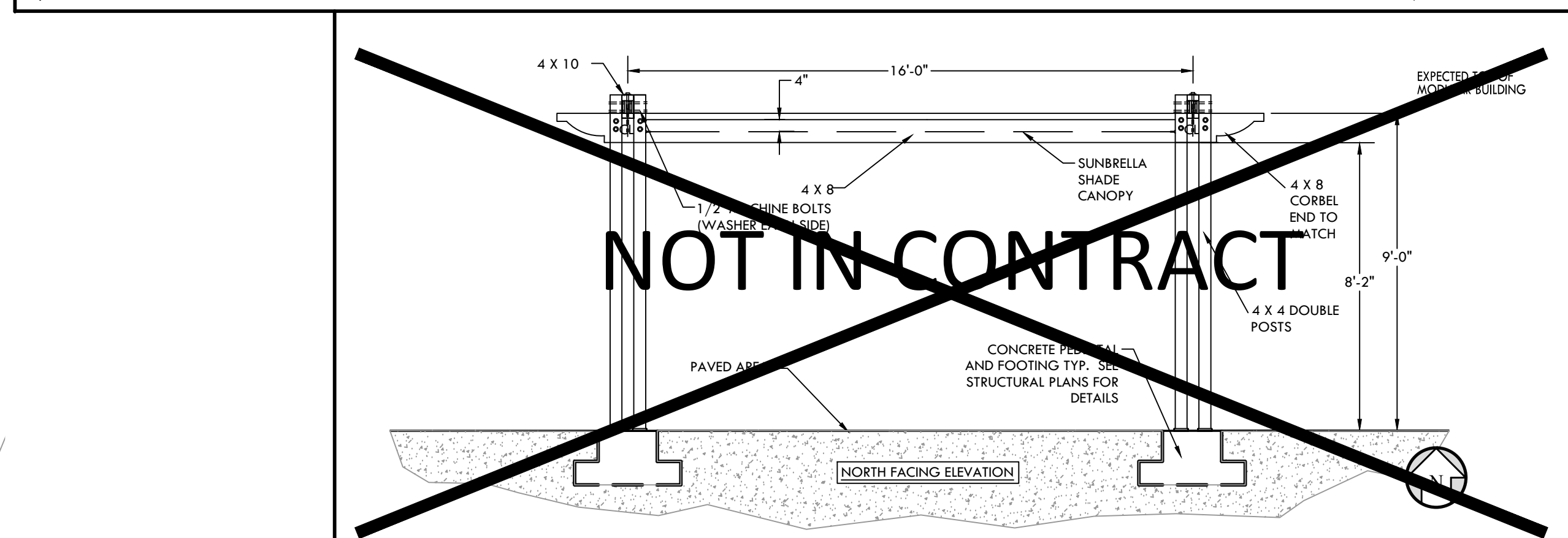
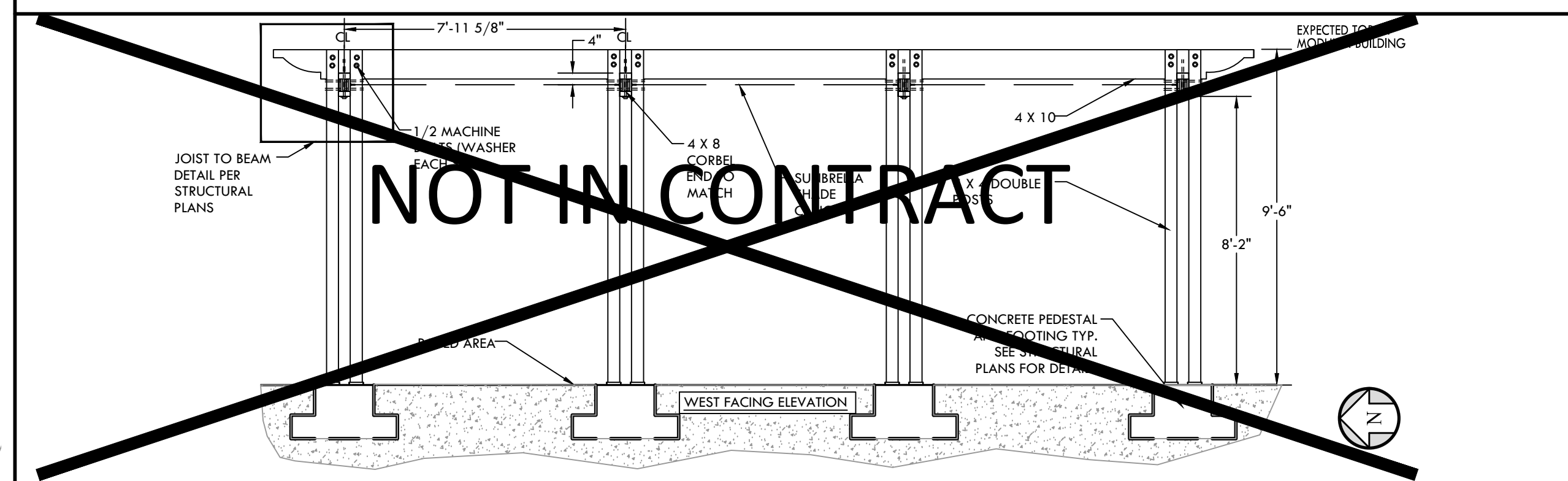
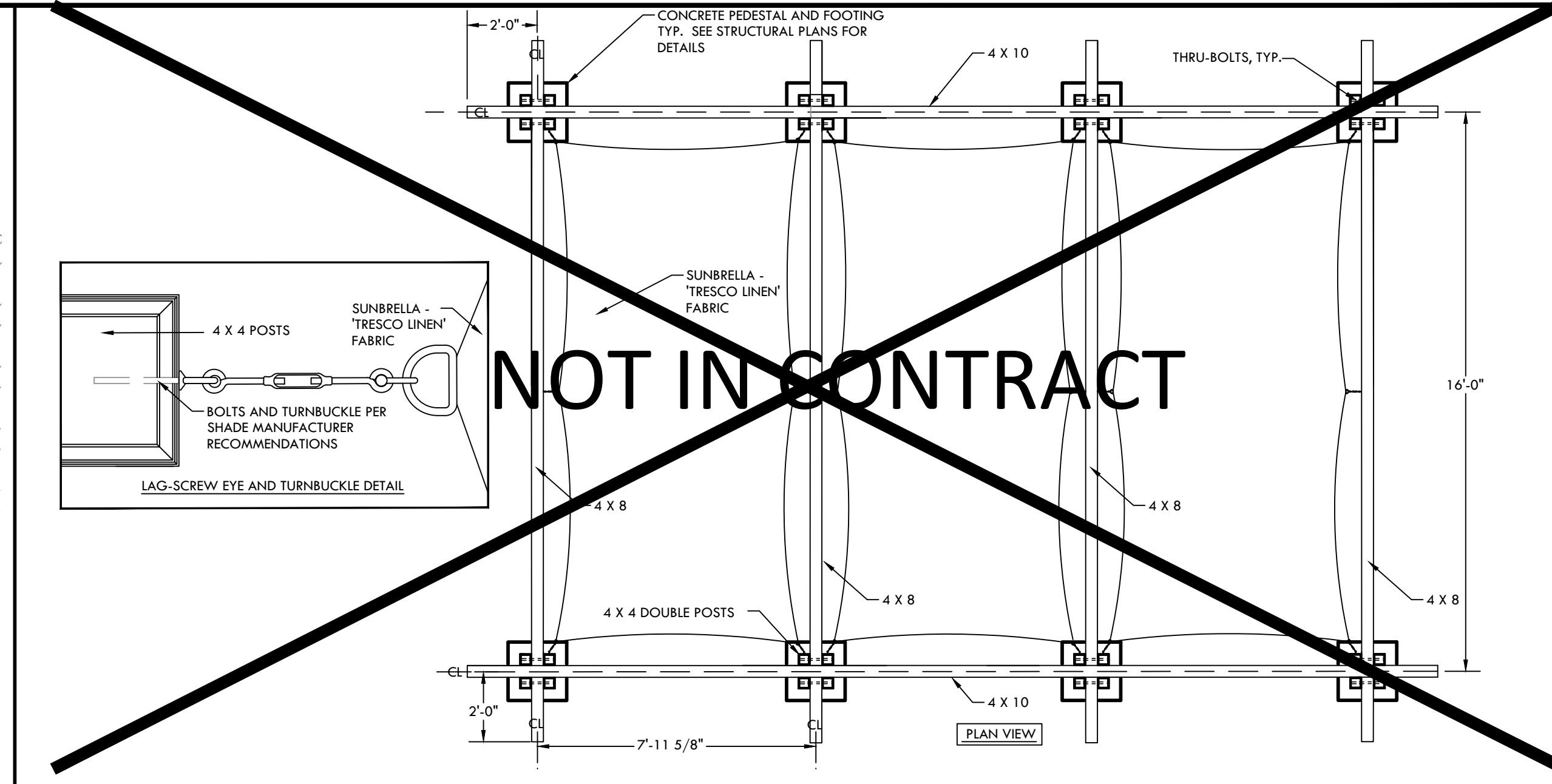


CITY OF LOS BANOS PUBLIC WORKS

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(209) 827 - 7086

ANIMAL SHELTER REHABILITATION
COVER SHEET

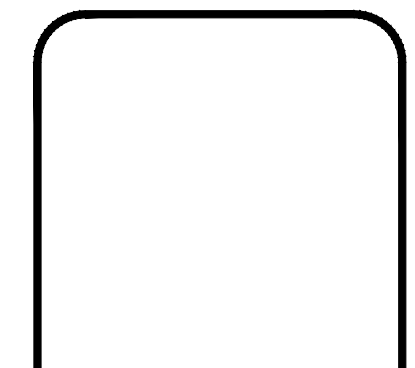
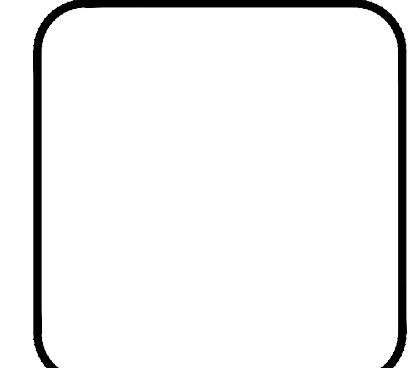
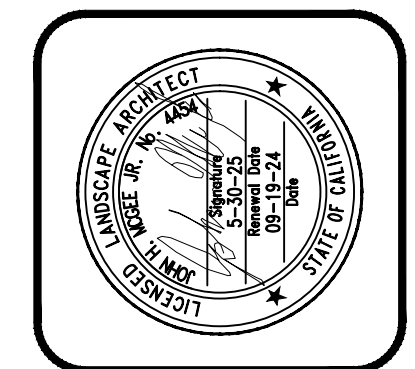
PROJECT NO.: 220150
DRAWN BY: SM/TI
QA/QC BY: JM
SCALE: AS SHOWN
SHEET NO.: 1 of 10



COURTYARD PERGOLA PLAN

SHRUBS		BOTANICAL NAME / COMMON NAME		SIZE	SPACING	WUCOLS	QTY
B	CALLISTEMON VIMINALIS 'LITTLE JOHN' BOTTLEBRUSH			1 GAL	-	L	17
C	RHAPHIOLEPSIS UMBELLATE 'MINOR' / YEDDO HAWTHORN			5 GAL	-	L	34
D	SALVIA LEUCANTHA 'SANTA BARBARA' / MEXICAN BUSH SAGE			5 GAL	-	L	5
SHRUBS		PLANT CALLOUT					
TURF		BOTANICAL NAME / COMMON NAME		SIZE	SPACING	WUCOLS	QTY
E	BERMUDAGRASS HYBRID, RIO COLD TOLERANT IMPROVED BERMUDAGRASS (WARM SEASON ZONE 3-5) - STOVER SEEDS			SEED 1000 S.F.	3 LBS PER H		1,047 SF
TURF		PLANT CALLOUT					

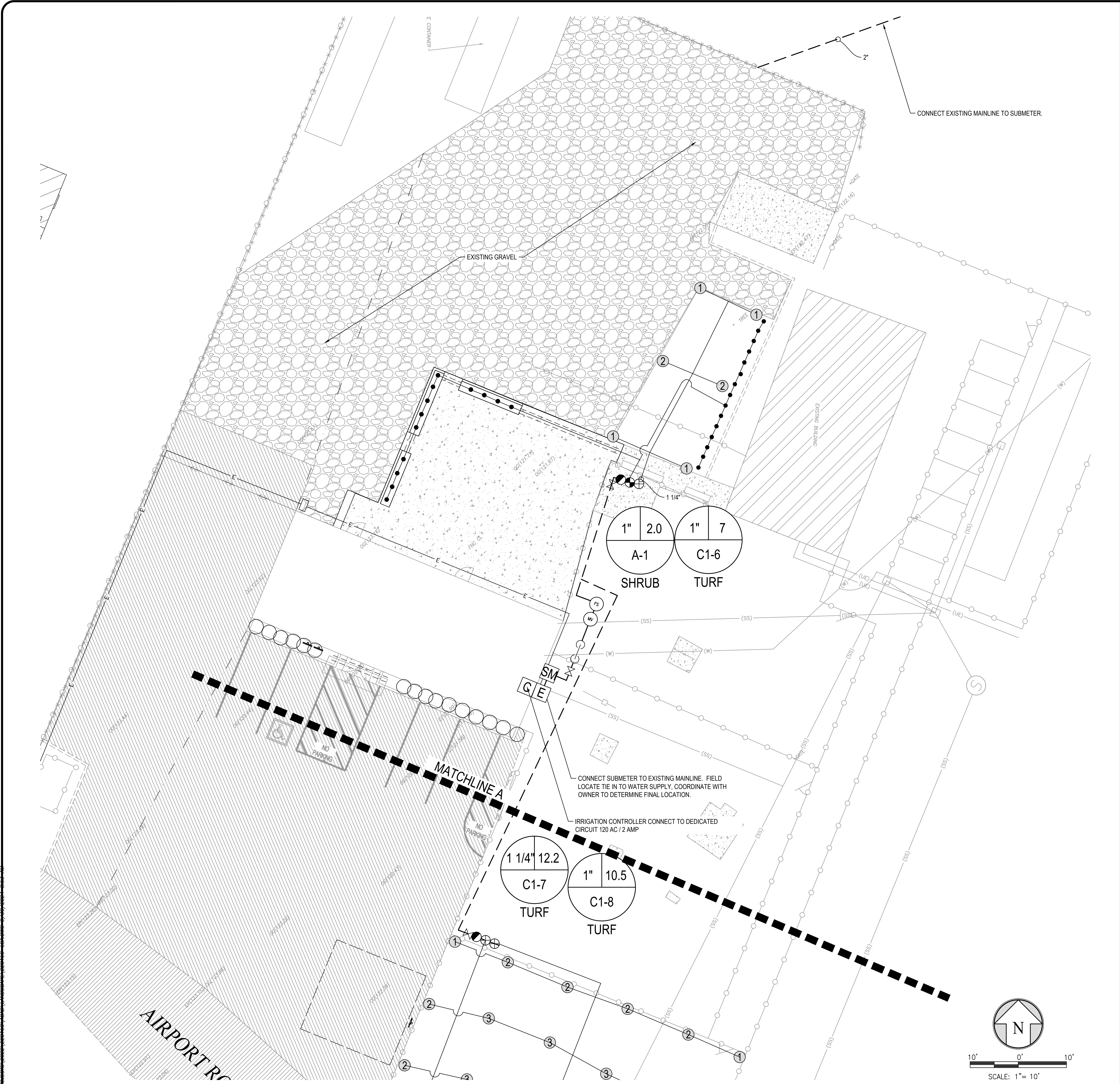
REVISIONS			
NO.	DATE	BY	DESCRIPTION



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ANIMAL SHELTER REHABILITATION
LANDSCAPE PLAN 1

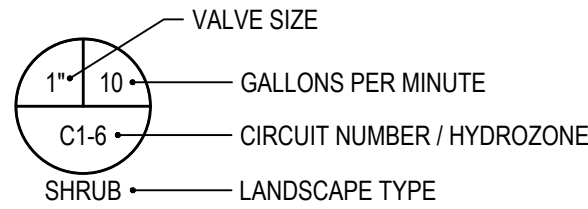
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DRAWN BY:
SM/TI
QA/QC BY:
JM
SCALE:
AS SHOWN
SHEET NO.: 2 of 10



IRRIGATION PLAN

- 1 1/2" PVC SCHEDULE 40 MAIN PIPE
- PVC SCHEDULE 40 LATERAL PIPE, SEE CHART BELOW FOR SIZE
- 1 1/2" PVC SCHEDULE 40 SLEEVE, MINIMUM TWICE THE DIAMETER OF THE ENCLOSED PIPE
- 1 1/2" PVC SCHEDULE 40 SLEEVE, MINIMUM TWICE THE DIAMETER OF THE ENCLOSED PIPE
- 2" PVC SCHEDULE 40 SLEEVE FOR IRRIGATION WIRING
- 90° - 360° HUNTER MP ROTATOR 1000 SERIES - PRS30-6-MP1000. SEE DETAIL 'L' ON SHEET 5
- TORO D8-04-PC PRESSURE COMPENSATING DRIP BUBBLER ON TORO SUPER FUNNY PIPE FLEXIBLE RISER, 4 GPH. SEE DETAIL 'M' ON SHEET 5
- HUNTER RZWS-18-25-CV WITH RZWS-SLEEVE TWO PER TREE, 25 GPM. SEE DETAIL 'B' ON SHEET 5
- HUNTER ICZ-101-LF 1" DRIP ZONE VALVE KIT, SEE PLAN FOR SIZE. SEE DETAIL 'F' ON SHEET 5
- HUNTER ICV, SEE PLAN FOR SIZE. SEE DETAIL 'D' ON SHEET 5
- 1 1/2" BALL VALVE SPEARS TRUE UNION 2000, SR THREADED STYLE, 1829 SERIES. INSTALL PER MANUFACTURER REQUIREMENTS.
- 1 1/2" FEBCO LF8260 BACKFLOW PREVENTER WITH ENCLOSURE CAGE AND INSULATION BLANKET. SEE DETAILS 'E' AND 'F' ON SHEET 6
- 1 1/2" MASTER VALVE HUNTER IBV-201G-FS
- 1 1/2" CST FLOW SENSOR
- 1" SUBWATER METER, REFER TO CIVIL PLANS FOR LOCATIONS. PROVIDE FIELD READING OF STATIC PRESSURE TO LANDSCAPE ARCHITECT
- ELECTRICAL SERVICE PER SEPARATE PLAN
- IRRIGATION CONTROLLER - HUNTER I-CORE IC-600 WITH BUILT IN SOLAR SYNC MODULE, WALL MOUNTED. SEE DETAIL 'H' ON SHEET 5, COORDINATE LOCATION WITH OWNER.
- 1 1/2" NIBCO 113-K WITH CROSS HANDLE BRASS GATE VALVE. SEE DETAIL 'G' ON SHEET 5
- QUICK COUPLER, SEE PLAN FOR SIZE. SEE DETAIL 'J' ON SHEET 5

IRRIGATION PIPE SIZE PVC SCHEDULE 40	
3/4"	= 8 G.P.M.
1"	= 12 G.P.M.
1 1/4"	= 22 G.P.M.
1 1/2"	= 30 G.P.M.
2"	= 50 G.P.M.



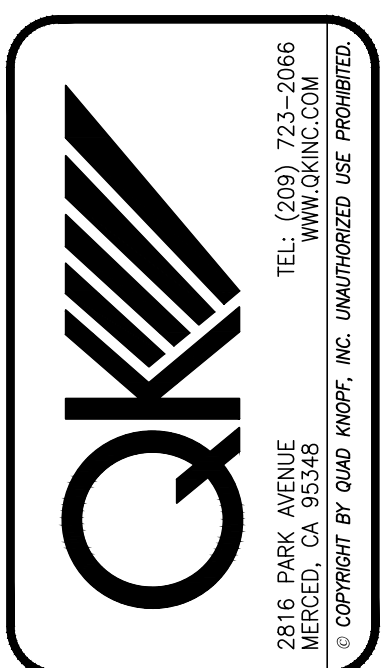
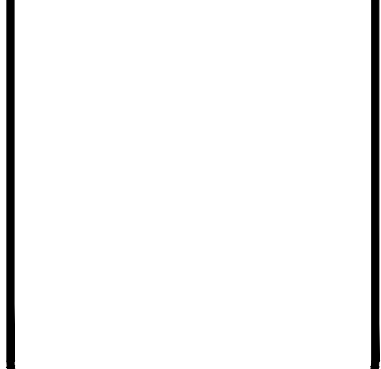
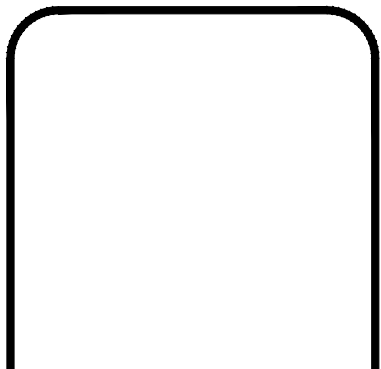
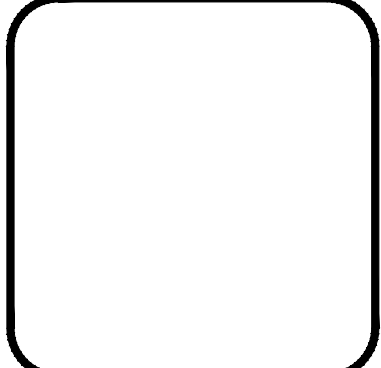
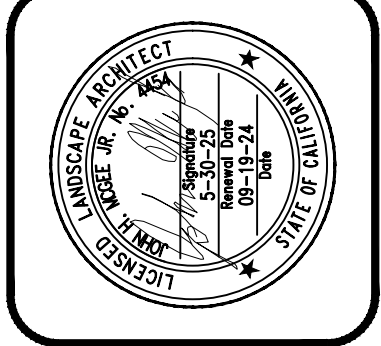
- NOTES:
- SUPPLY ELECTRICAL SERVICE FOR IRRIGATION CONTROLLERS AND BOOSTER PUMP.
 - INSTALL IRRIGATION EQUIPMENT IN PLANTER, SHOWN IN HARDSCAPE FOR CLARITY ONLY.

IRRIGATION LEGEND

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

JOHN H. MCGEE, JR. LLA #4454 DATE 09-30-24
LANDSCAPE ARCHITECT LICENSE NUMBER

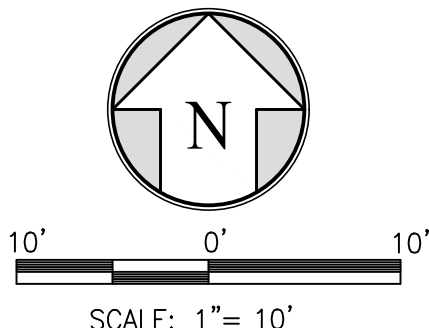
REVISIONS	
NO.	DESCRIPTION



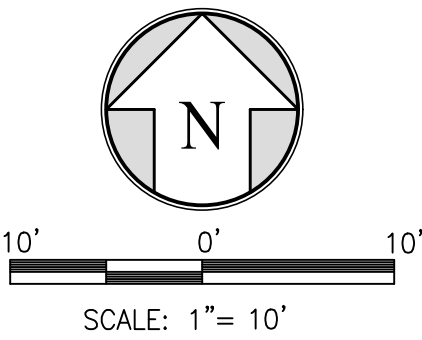
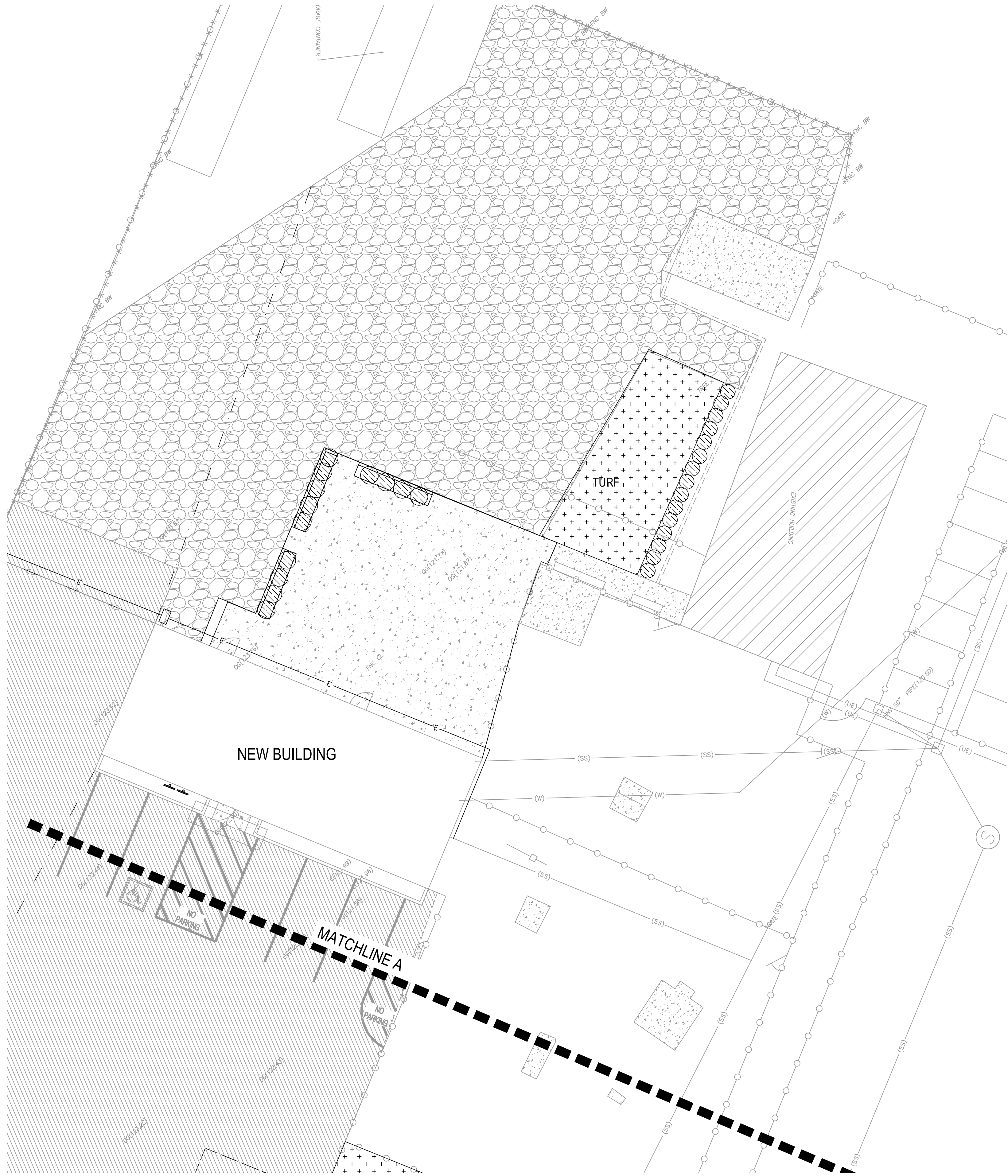
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ANIMAL SHELTER REHABILITATION
IRRIGATION PLAN 1

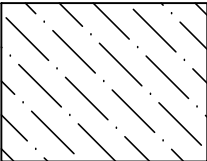
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QA/QC BY: JM
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SHEET NO.: 4 of 10



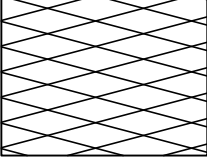
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SHEET NO.: 5 OF 10



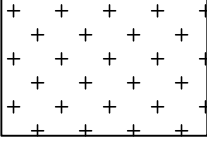
HYDROZONE LEGEND



HZ1 - LOW (SHRUBS)
DRIP

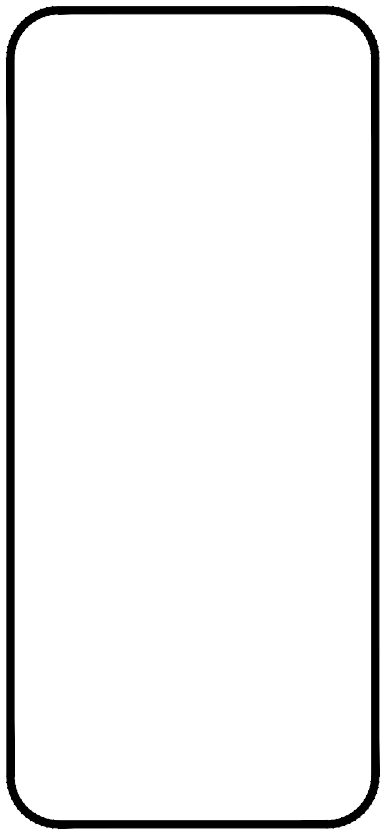
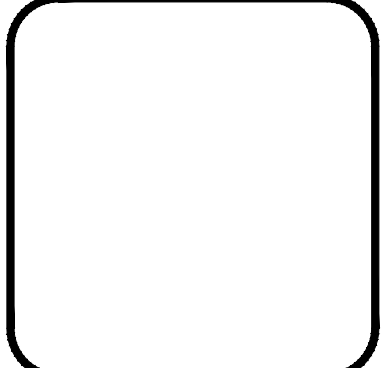
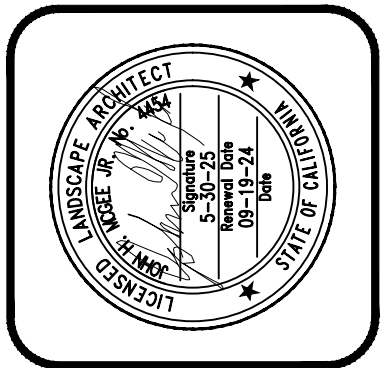


HZ4 - MODERATE (TREES)
BUBBLER



HZ5 - HIGH (TURF)
SPRAY

REVISIONS		
NO.	DATE	BY DESCRIPTION





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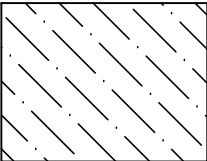
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ANIMAL SHELTER REHABILITATION
HYDROZONE PLAN 1

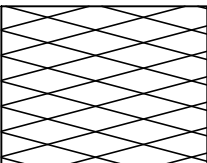
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DRAWN BY: SM/TI
QA/QC BY: JM
SCALE: AS SHOWN
SHEET NO.: 6 OF 10



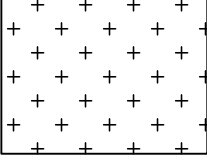
HYDROZONE LEGEND



HZ1 - LOW (SHRUBS)
DRIP

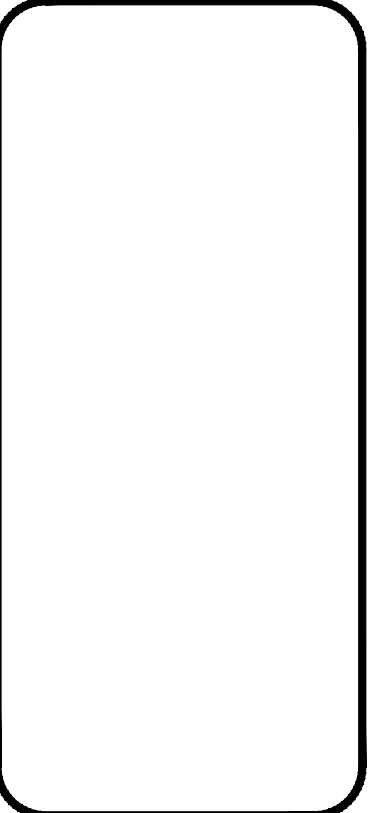
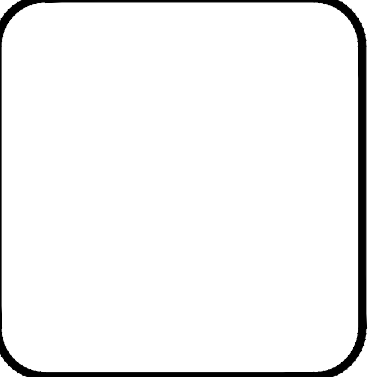


HZ4 - MODERATE (TREES)
BUBBLER



HZ5 - HIGH (TURF)
SPRAY

REVISIONS		
NO.	DATE	BY DESCRIPTION



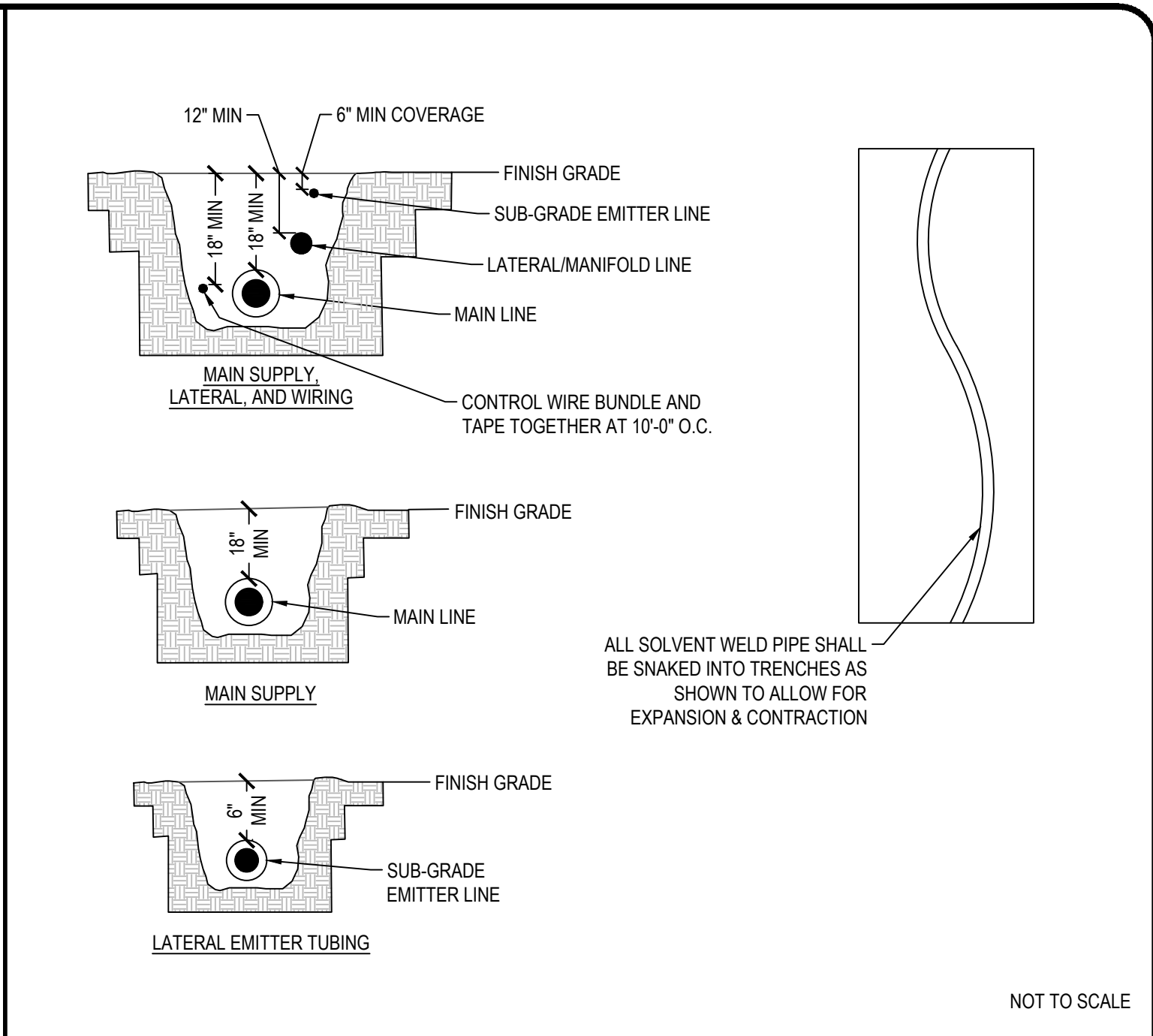
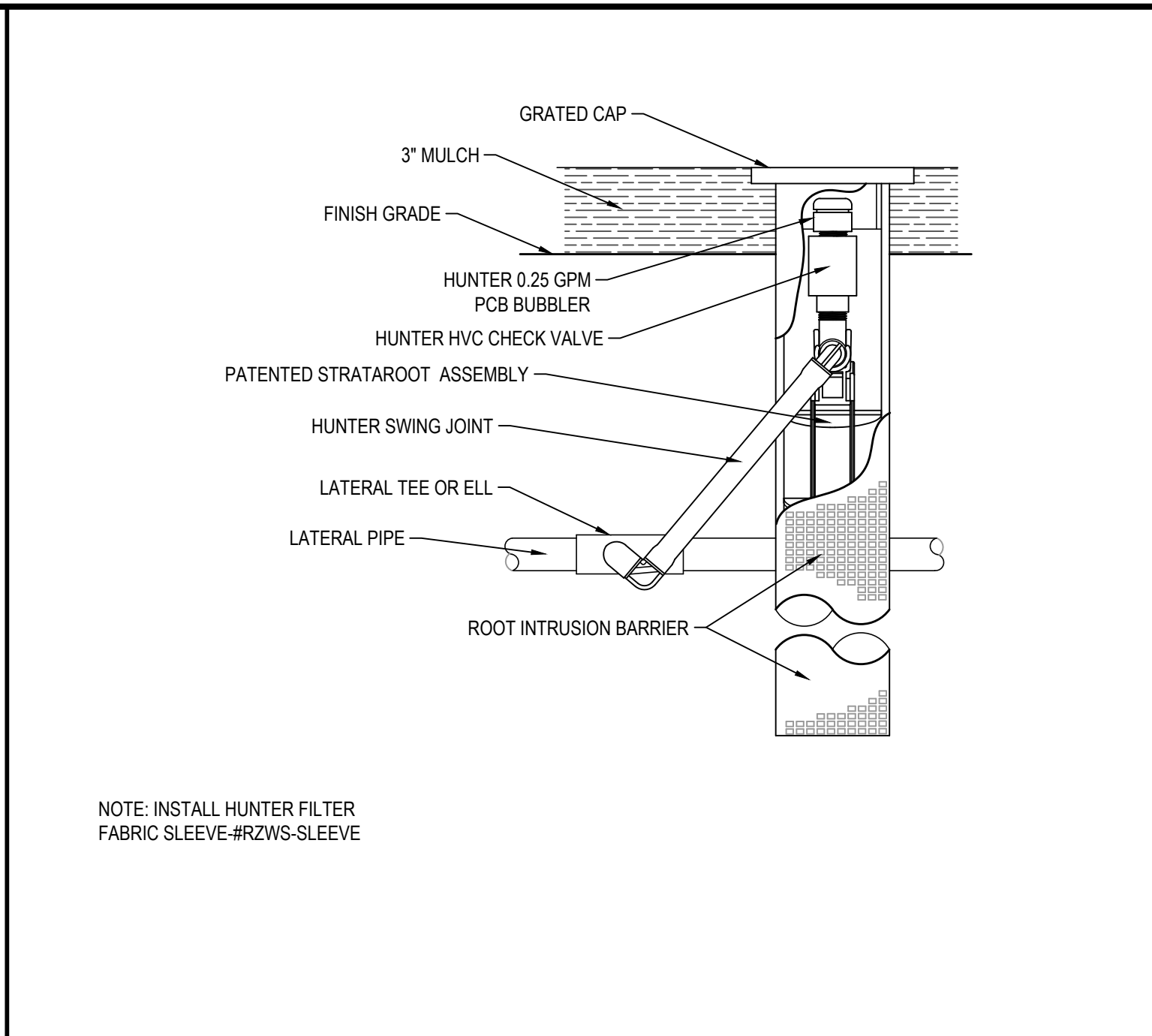
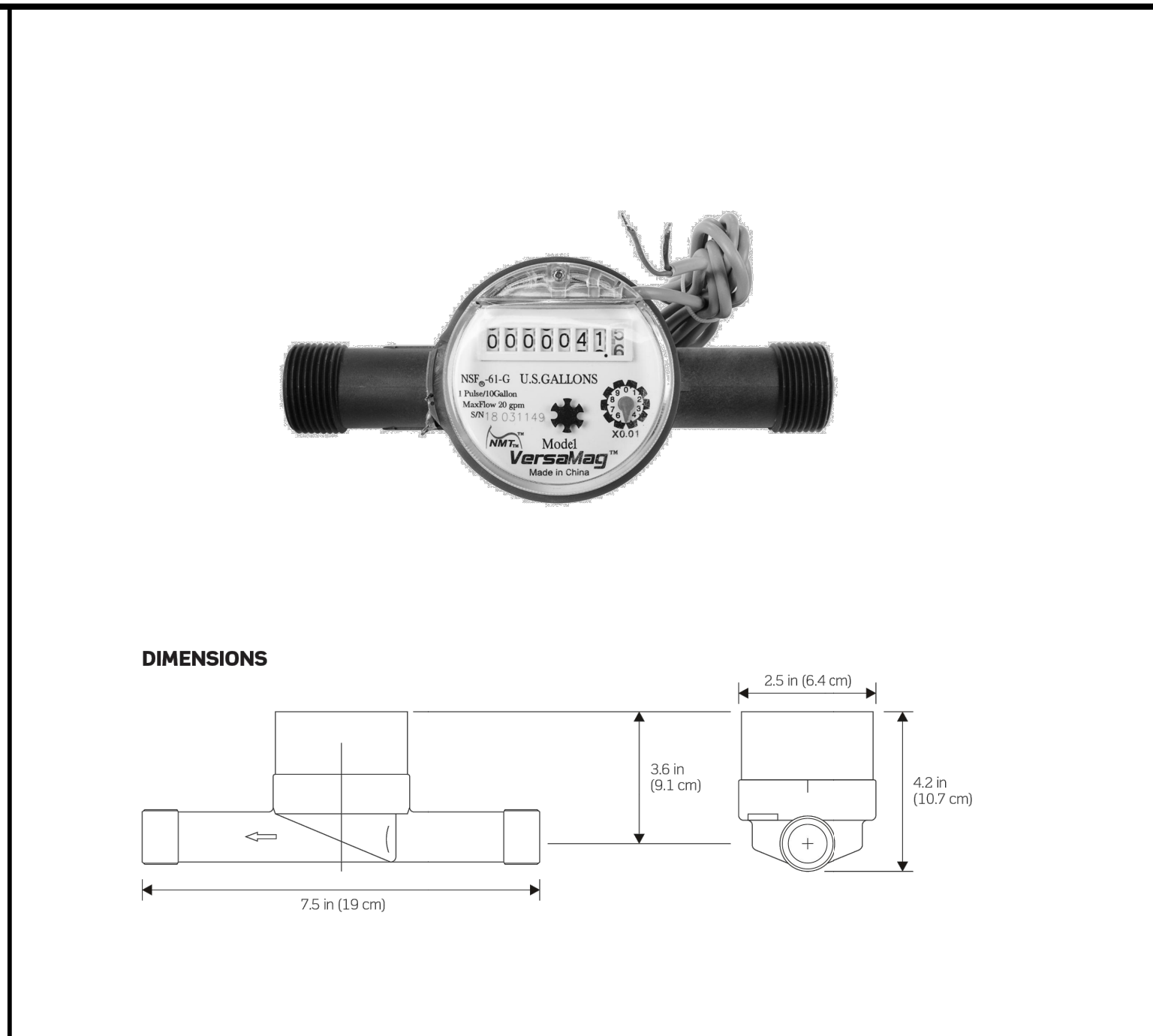
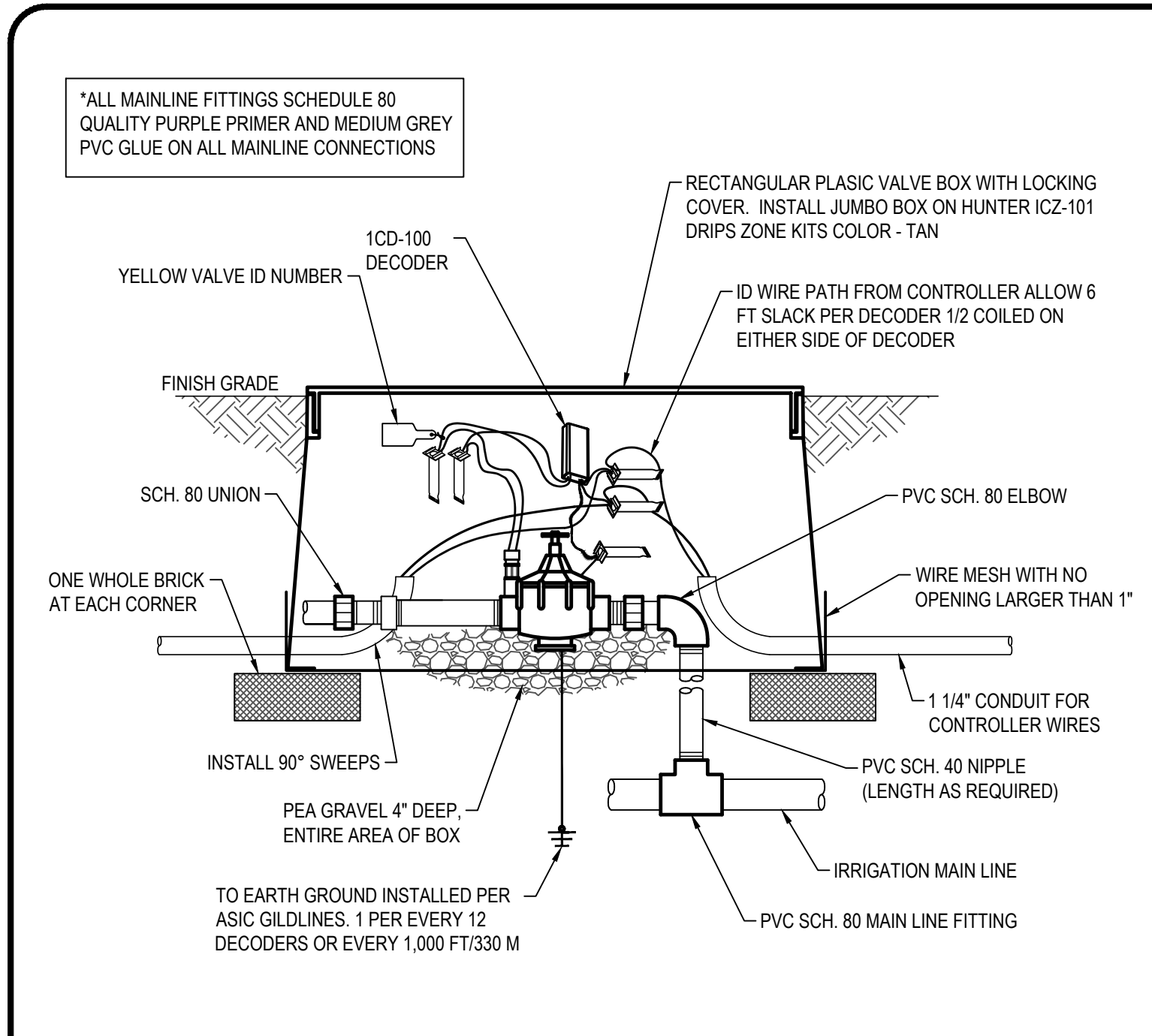


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ANIMAL SHELTER REHABILITATION
HYDROZONE PLAN 2

PROJECT NO.: 220150
DRAWN BY: SM/TI
QA/QC BY: JM
SCALE: AS SHOWN
SHEET NO.: 7 of 10

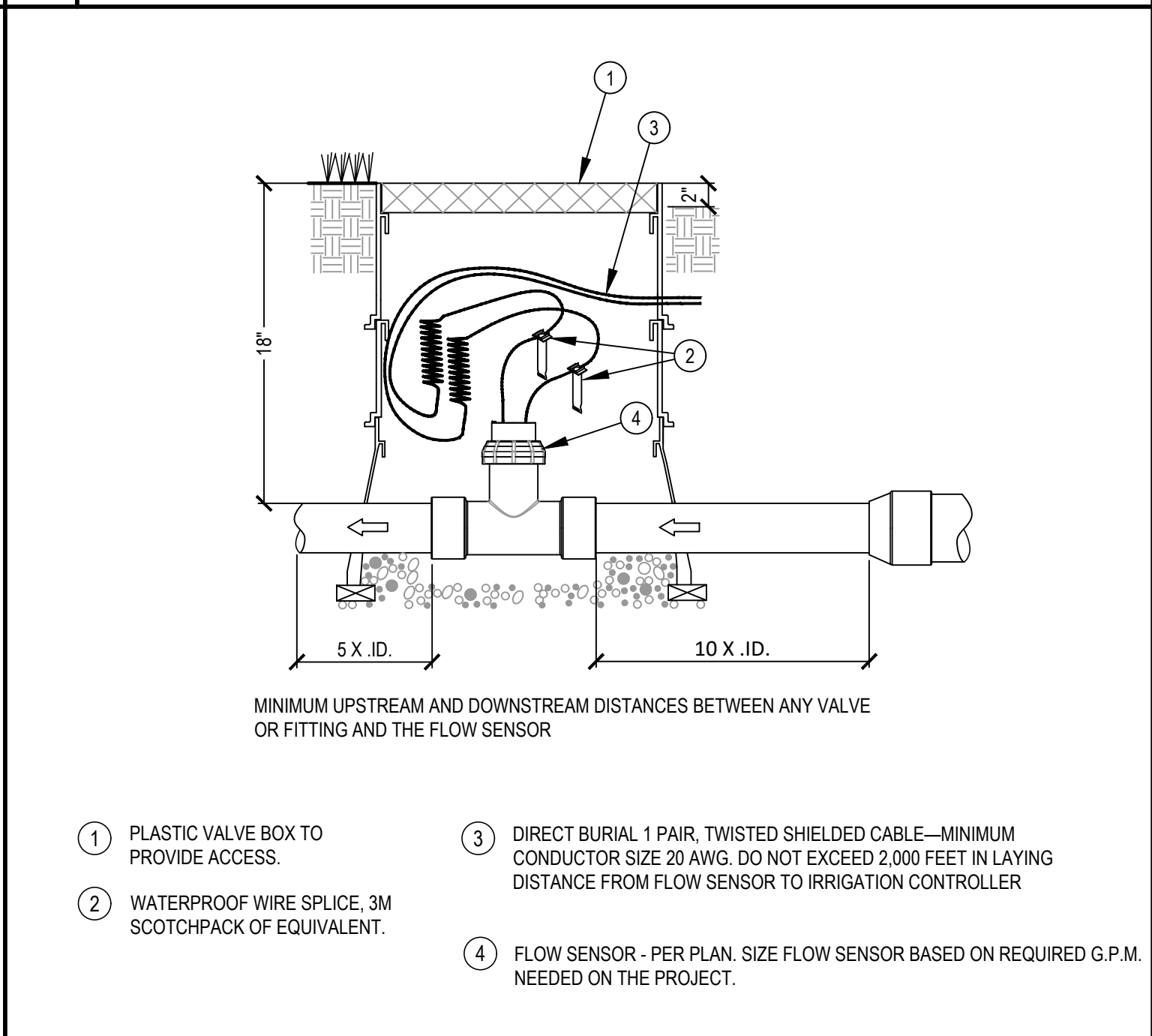
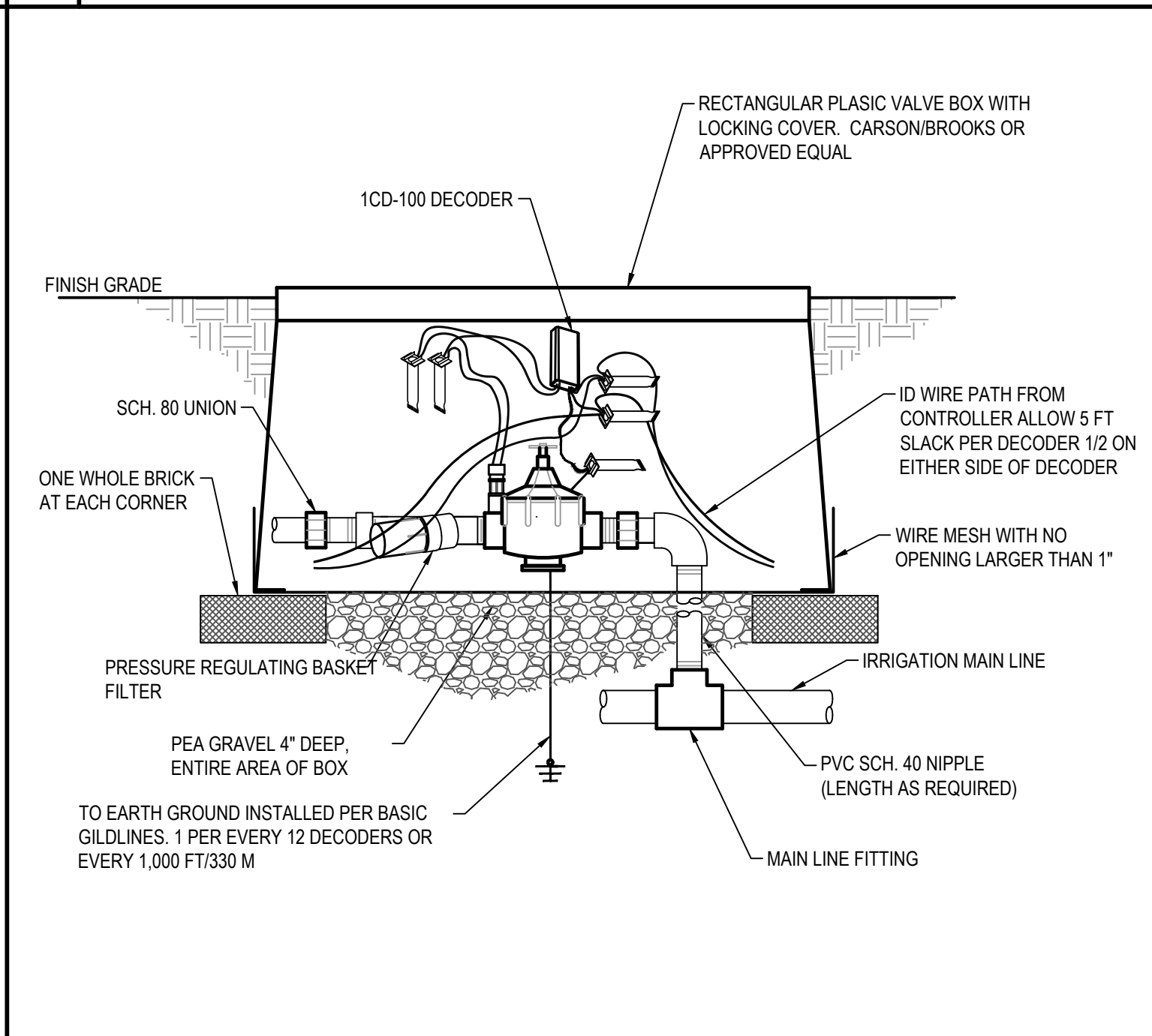
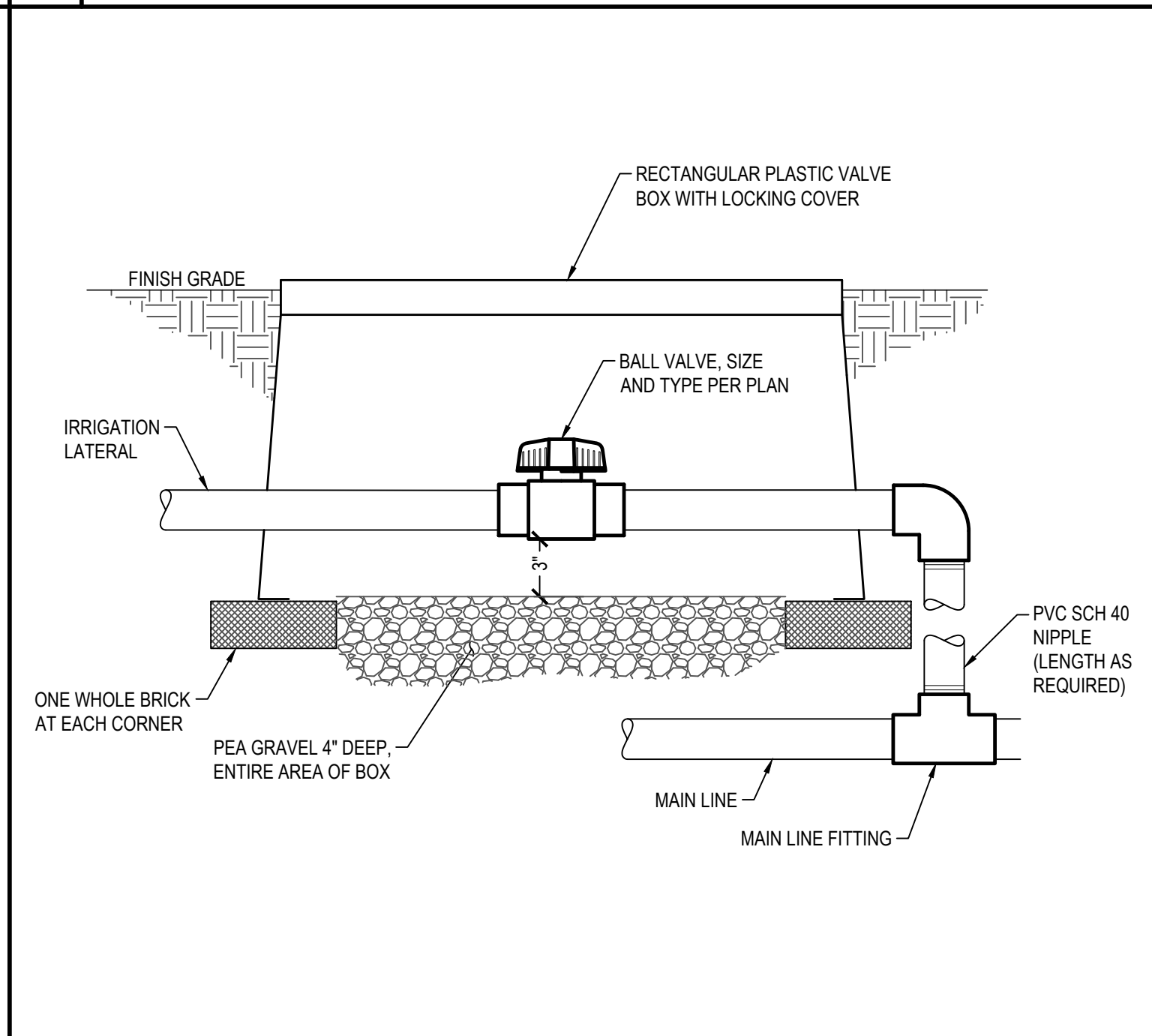
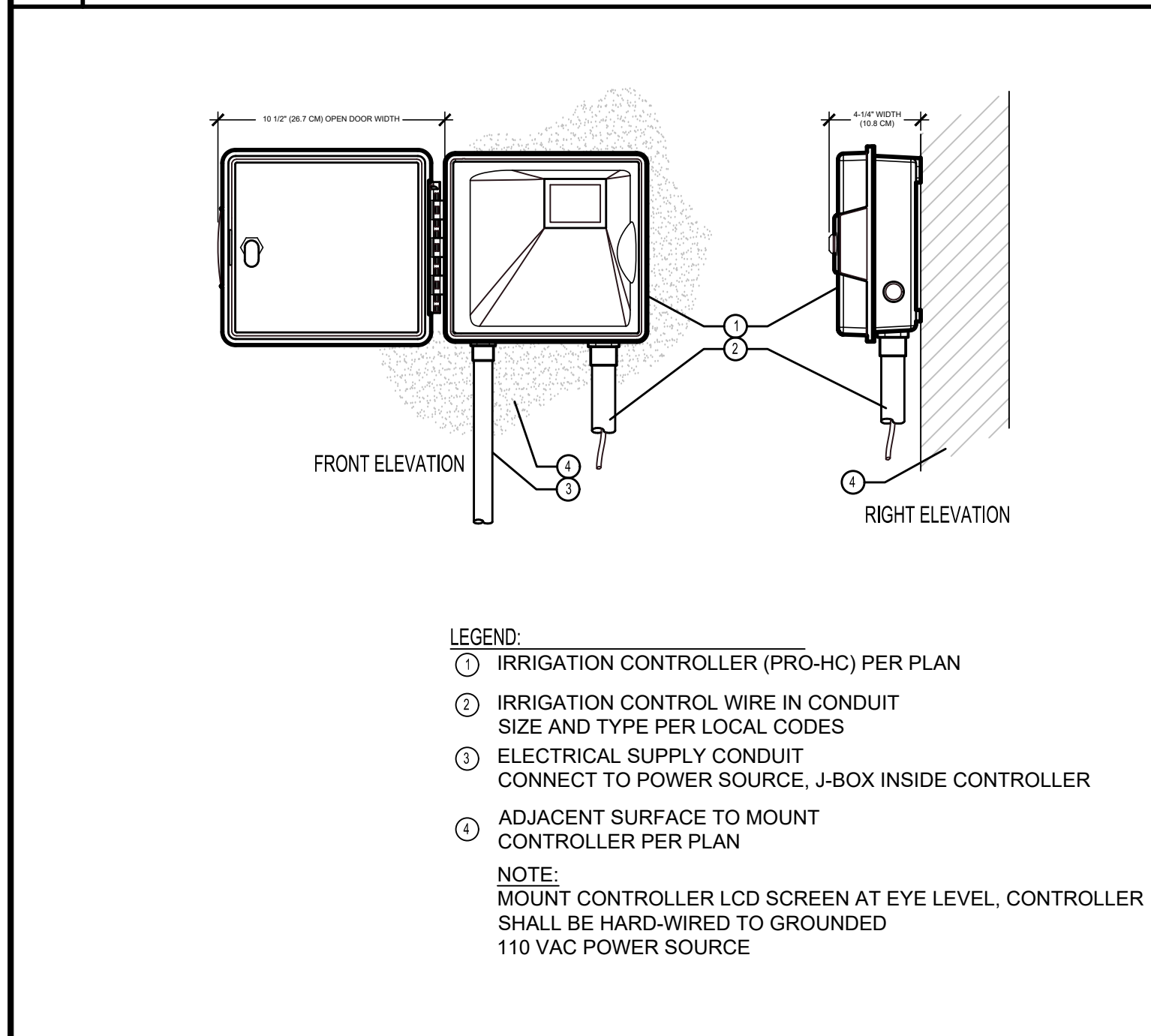


D	IRRIGATION REMOTE / MASTER VALVE
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B	TREE BUBBLER
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A	TRENCHING
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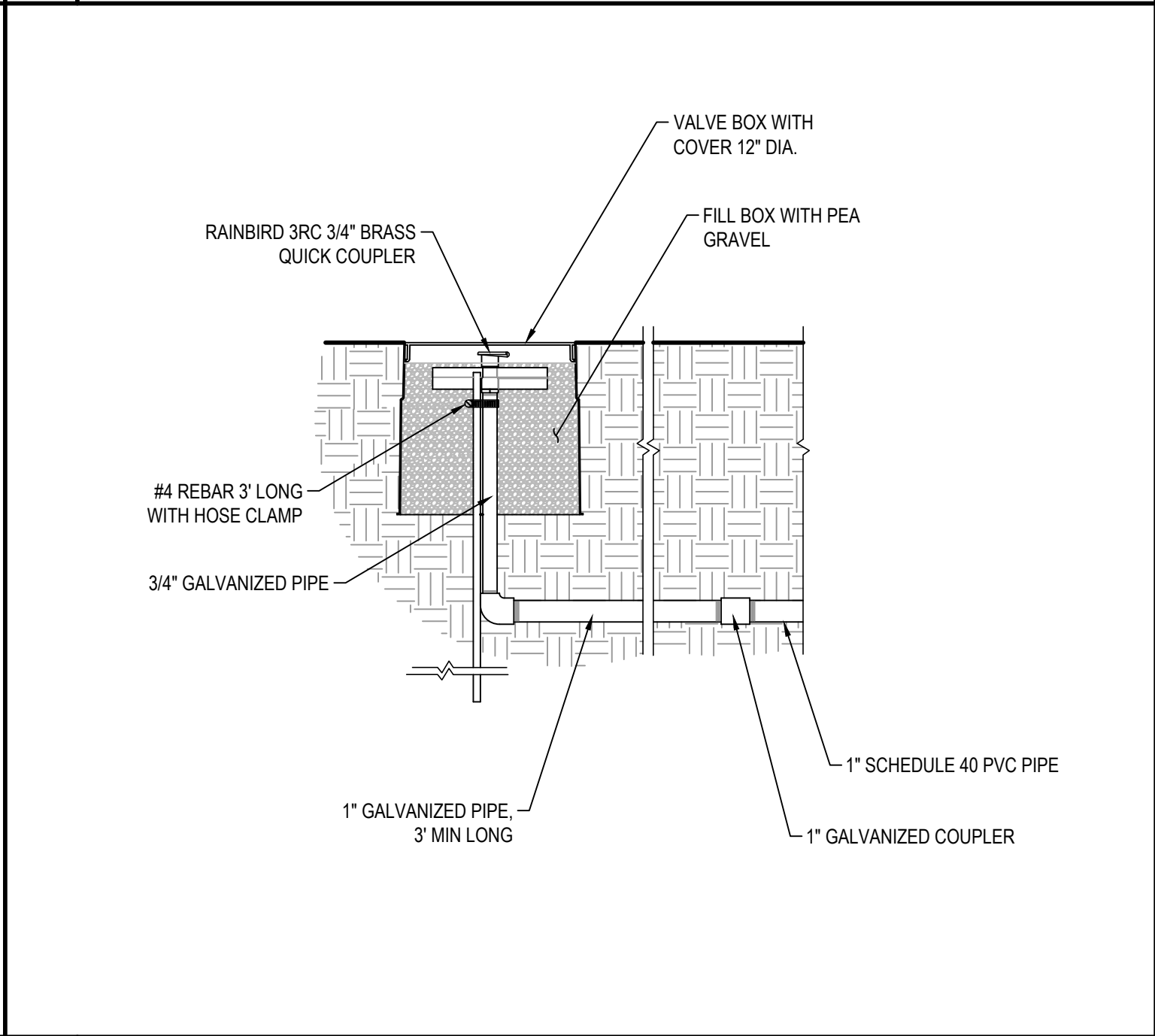
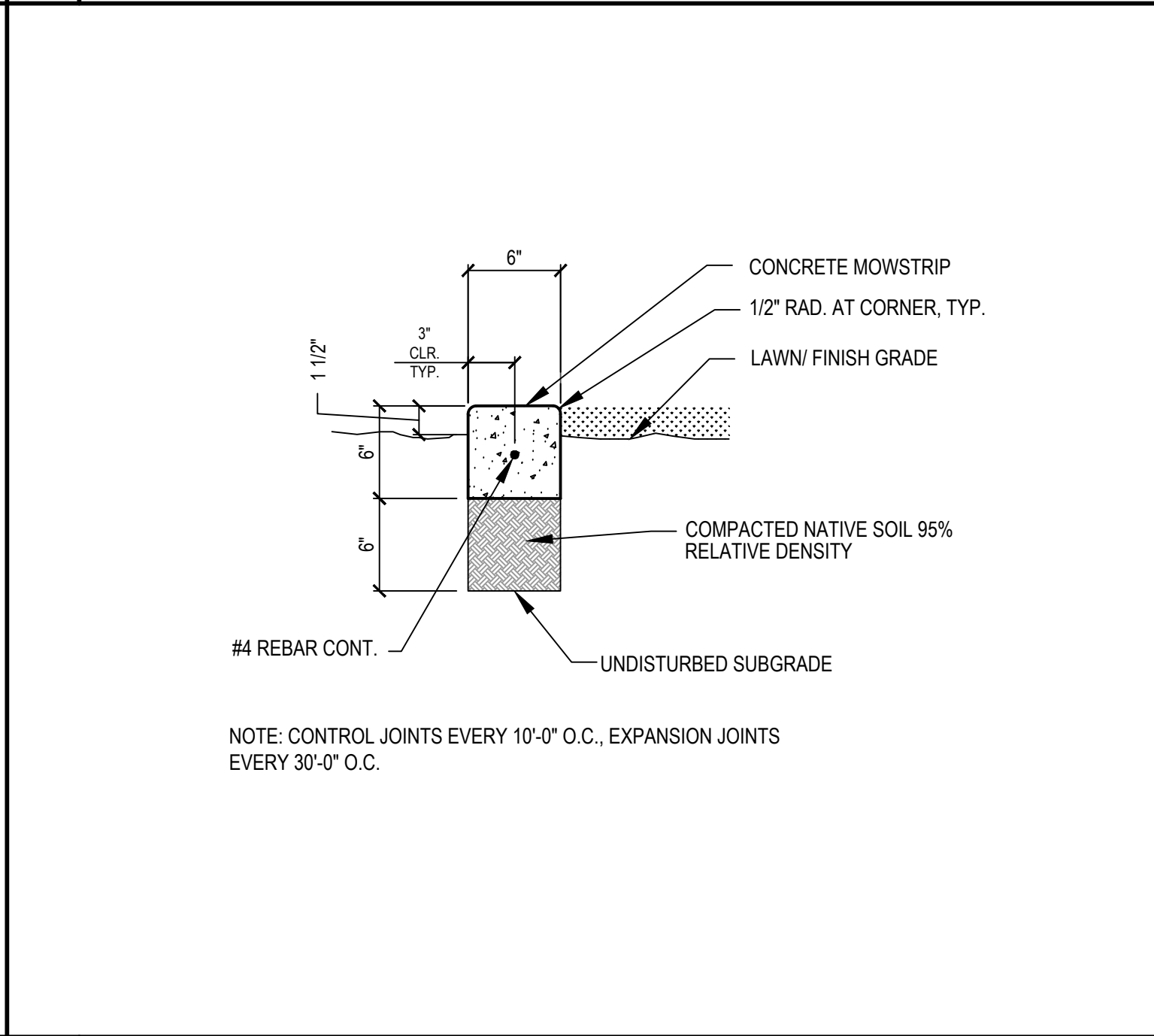
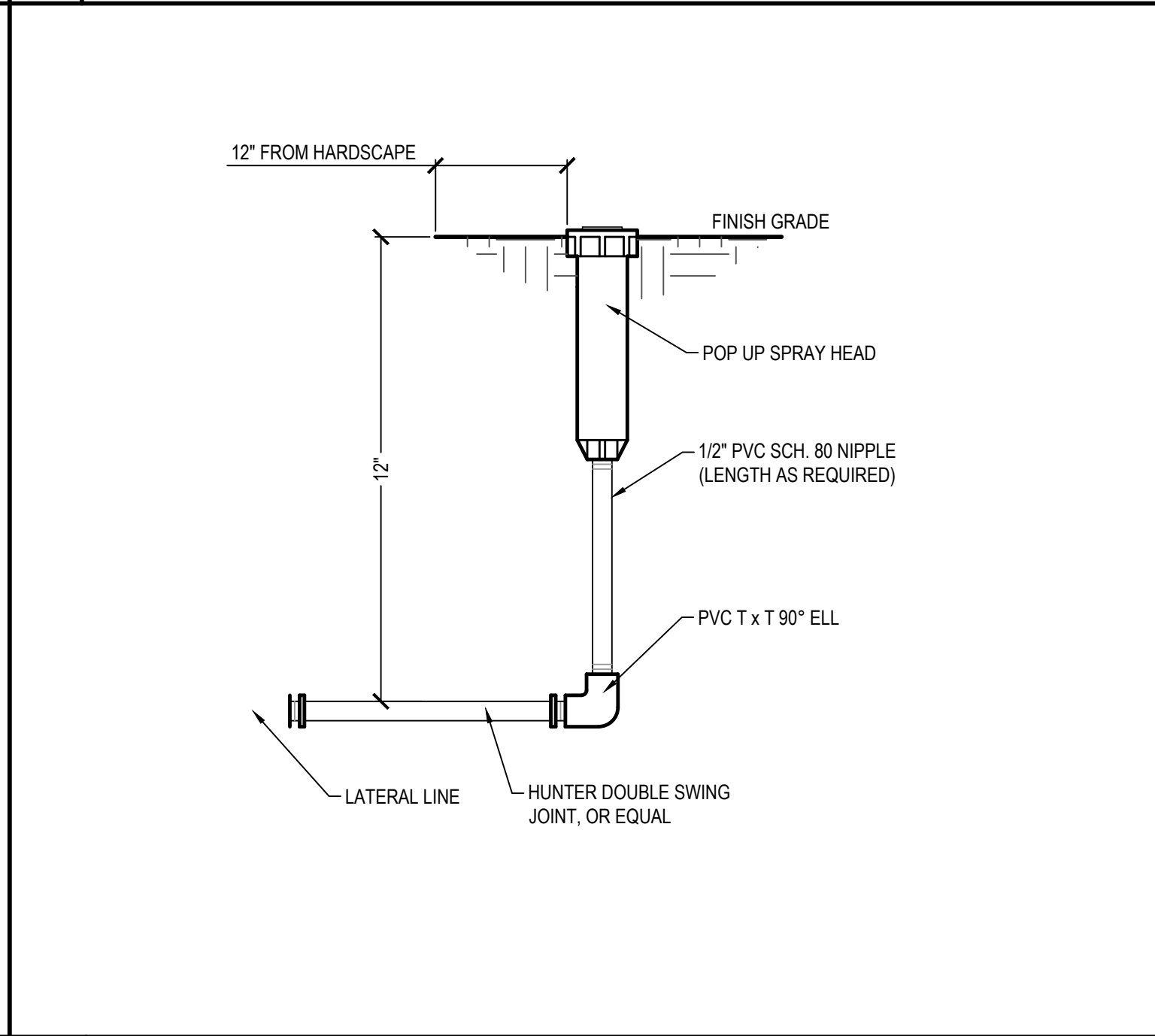
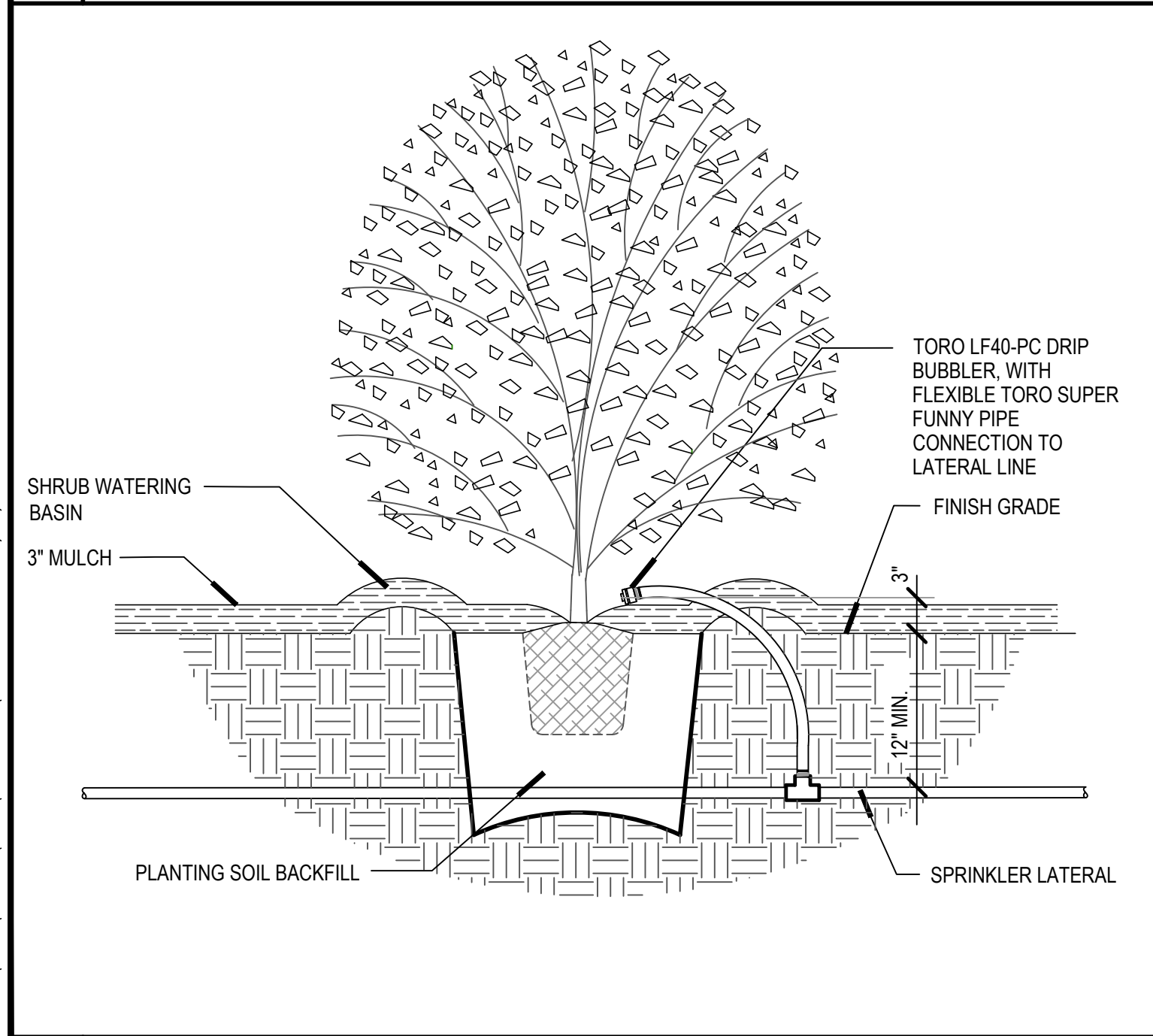


H	CONTROLLER
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G	BALL VALVE
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F	CONTROL ZONE KIT
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E	FLOW METER
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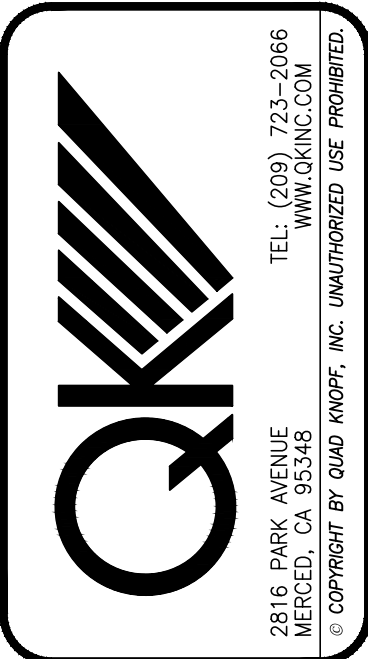
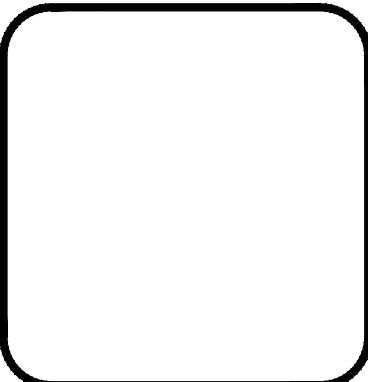
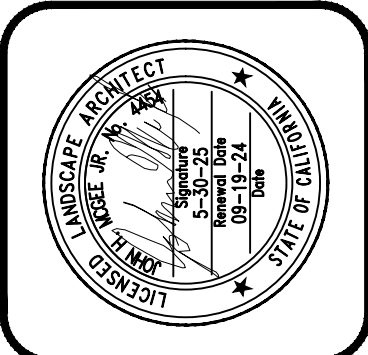


M	SHRUB BUBBLER
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L	POP UP SPRAY
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K	6" X 6" CONCRETE MOWSTRIP
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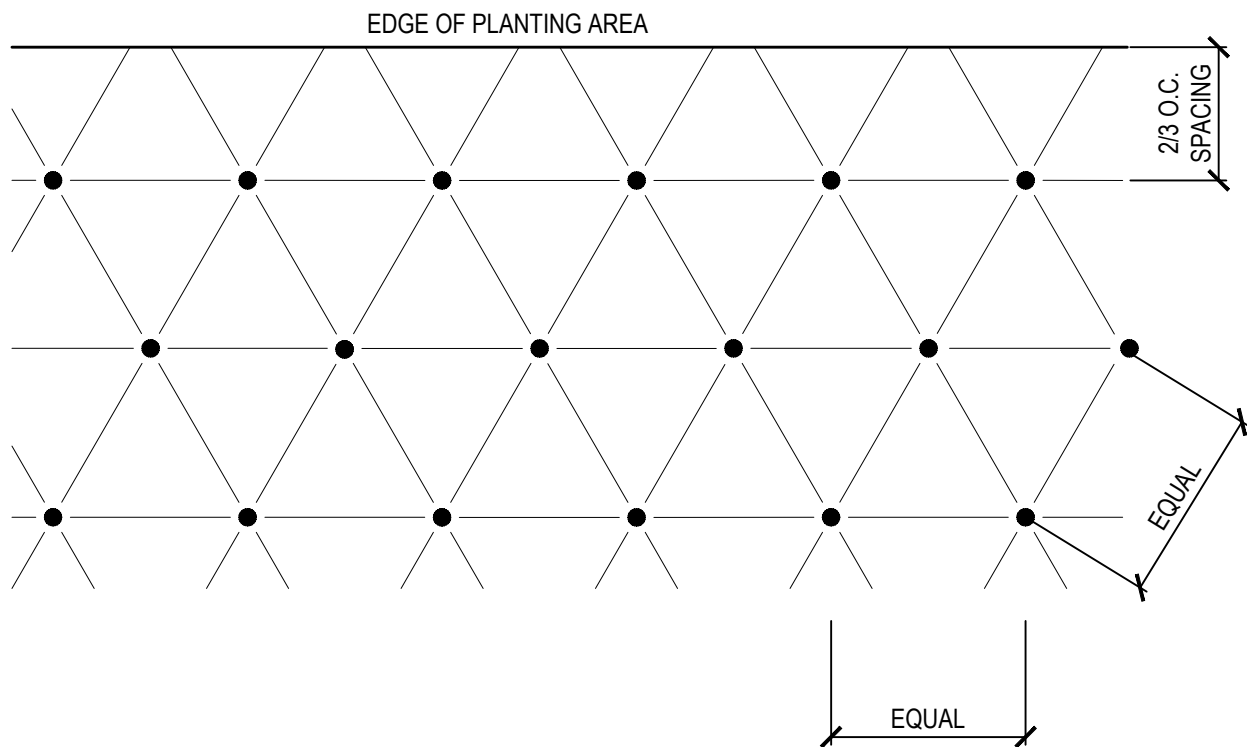
J	QUICK COUPLER
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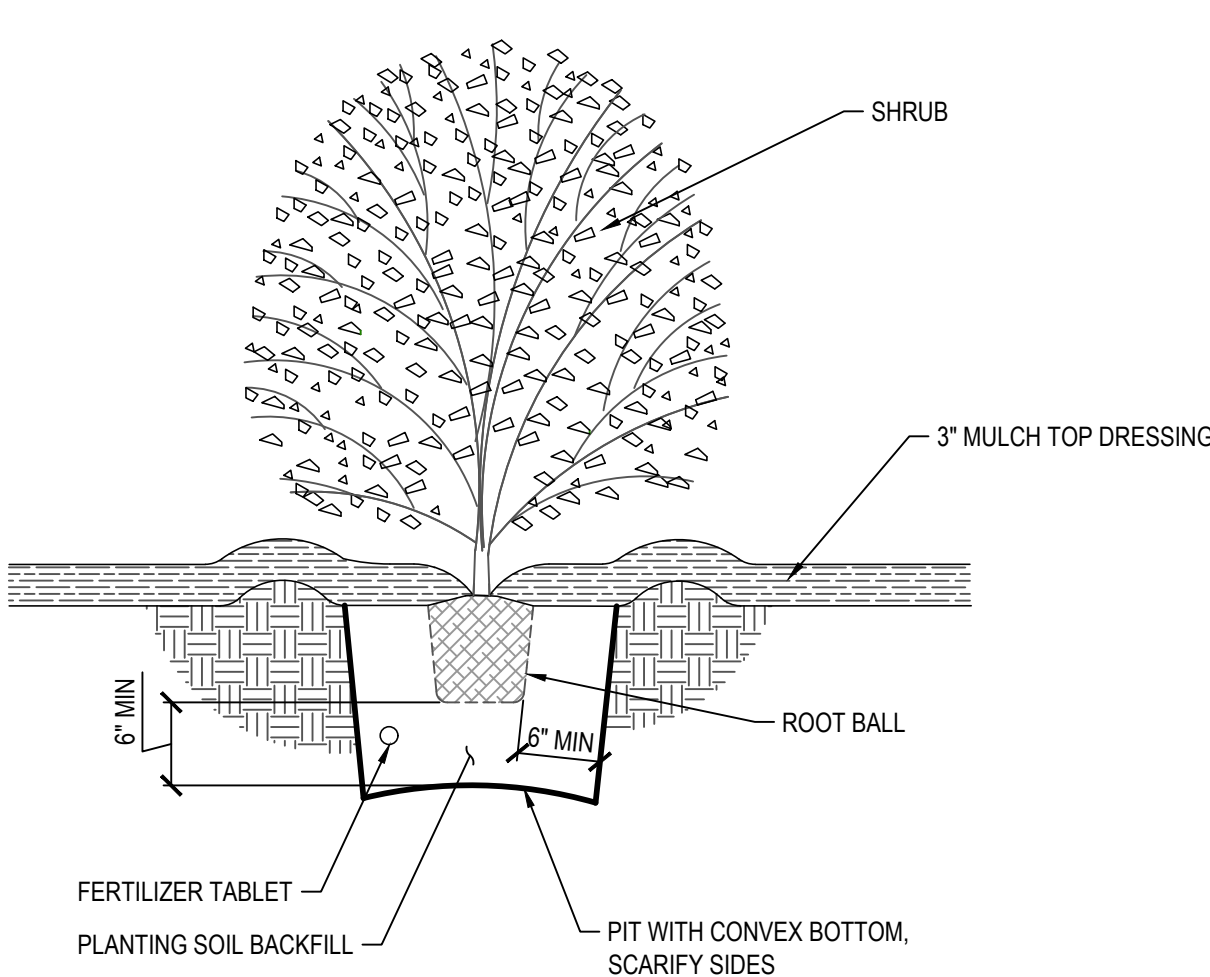
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 Los Banos, CA 93835
 (209) 827 - 7056

**ANIMAL SHELTER REHABILITATION
 IRRIGATION DETAILS**

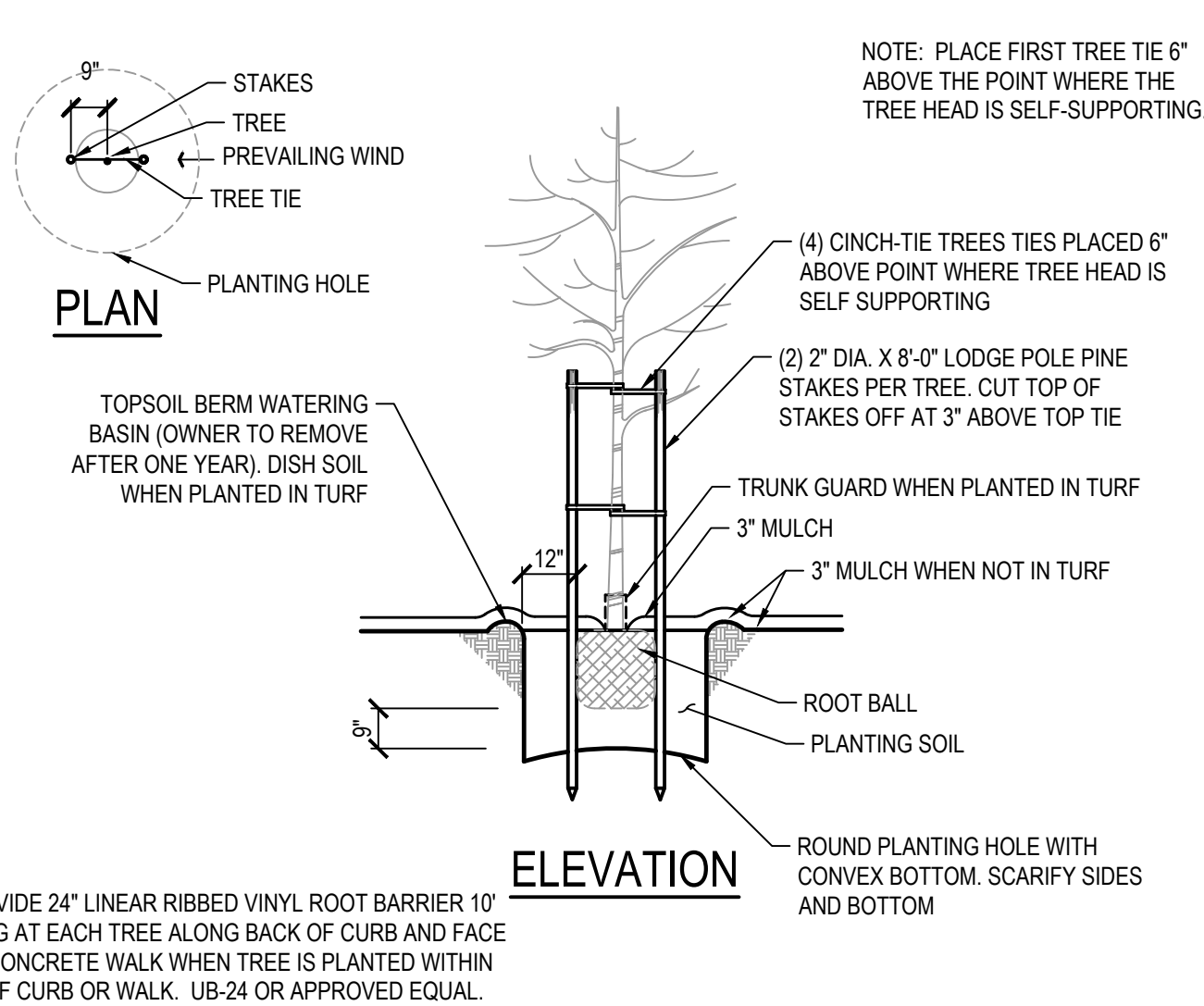
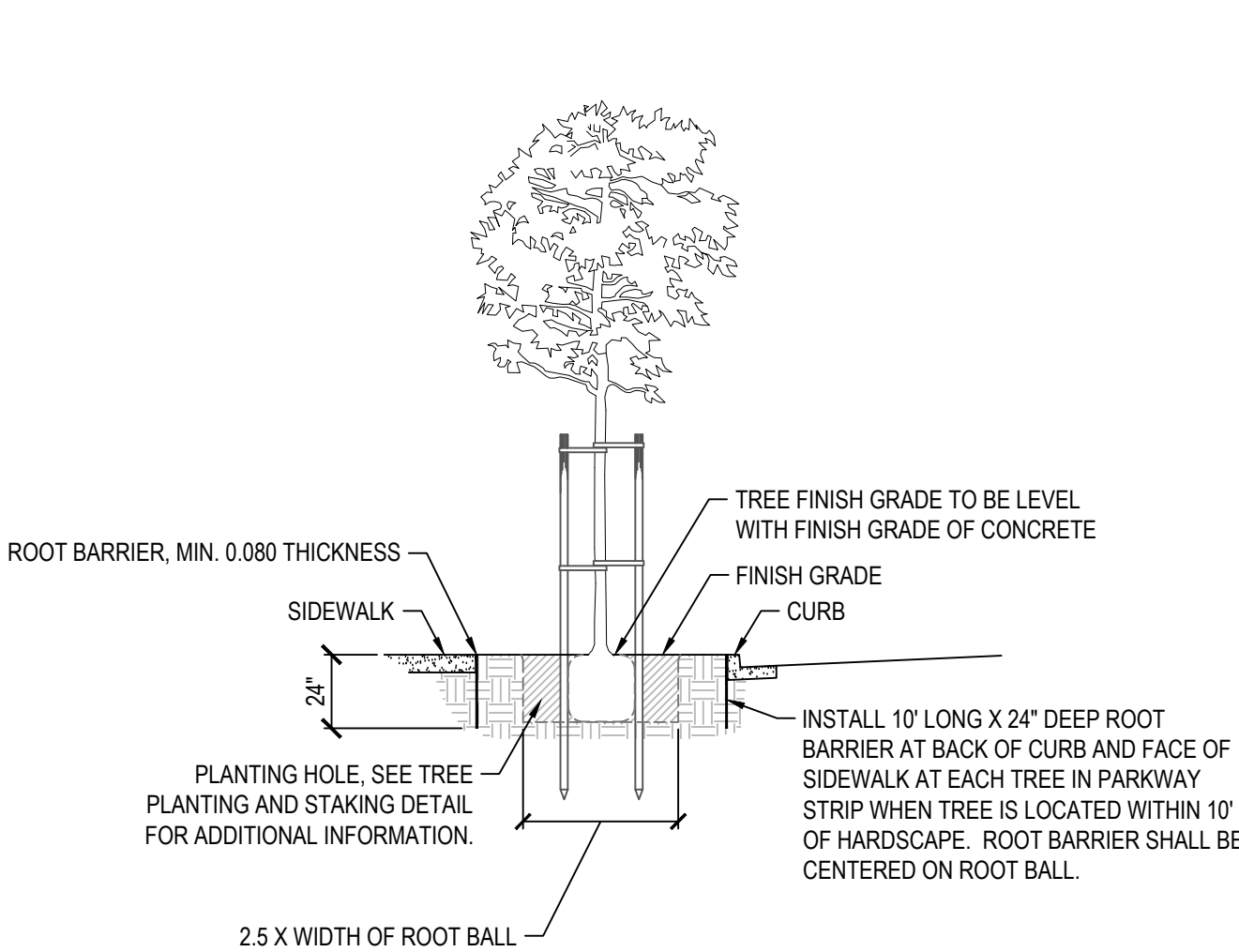
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DRAWN BY:	
SM/TI	
QA/QC BY:	
JM	
SCALE:	
NO SCALE	
SHEET NO.:	8 OF 10



NOTE:
ALL SHRUBS/GROUNDCOVER SHALL BE PLANTED AT
EQUAL SPACING (TRIANGULAR) UNLESS OTHERWISE
INDICATED ON PLANS. SEE LEGEND FOR SPACING
REQUIREMENTS.



NOTE: PLANTING DEPTH TO BE DICTATED BY POINT
OF FIRST ROOT FLAIR (EXCLUDING ADVENTITIOUS
ROOTS). ROOT BALL TO BE 1\"/>



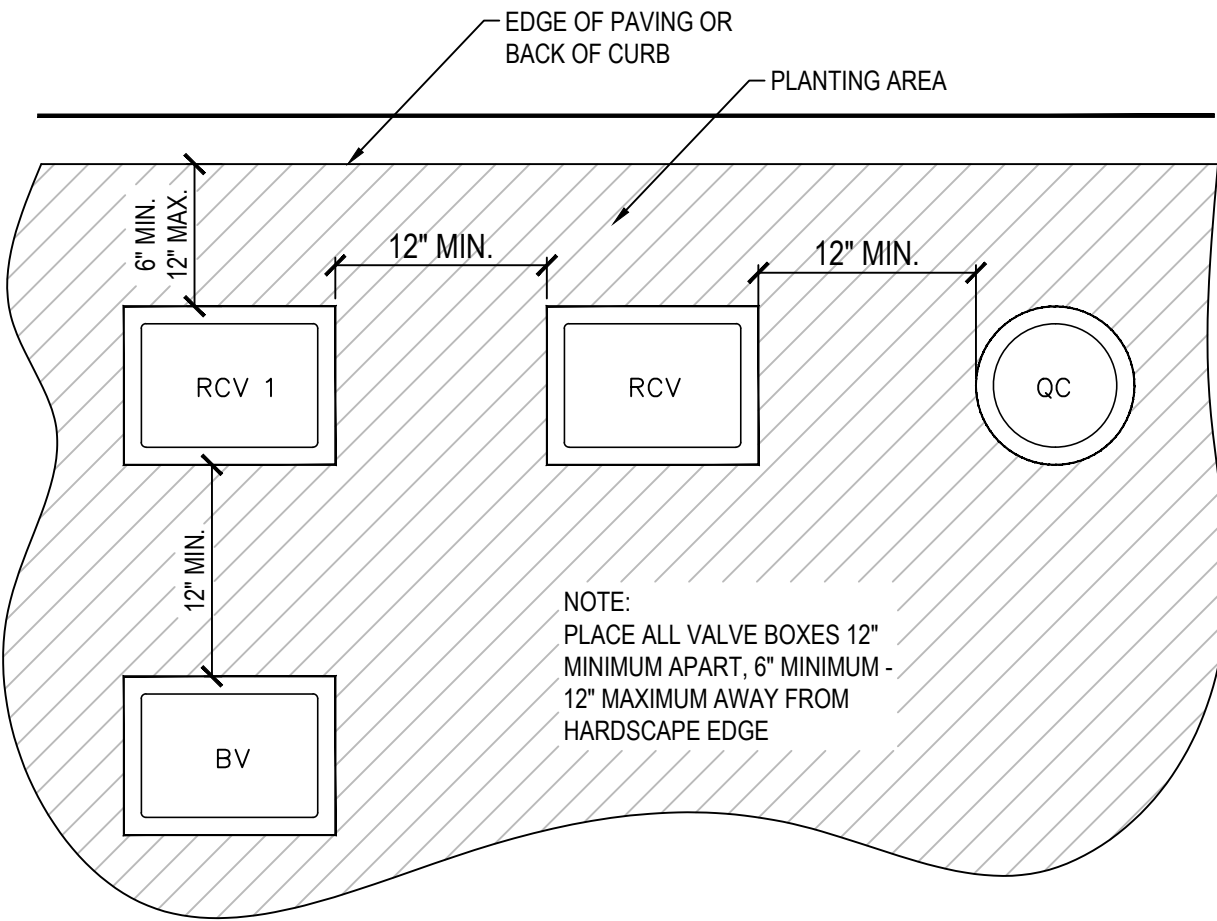
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D PLANTING GRID SPACING

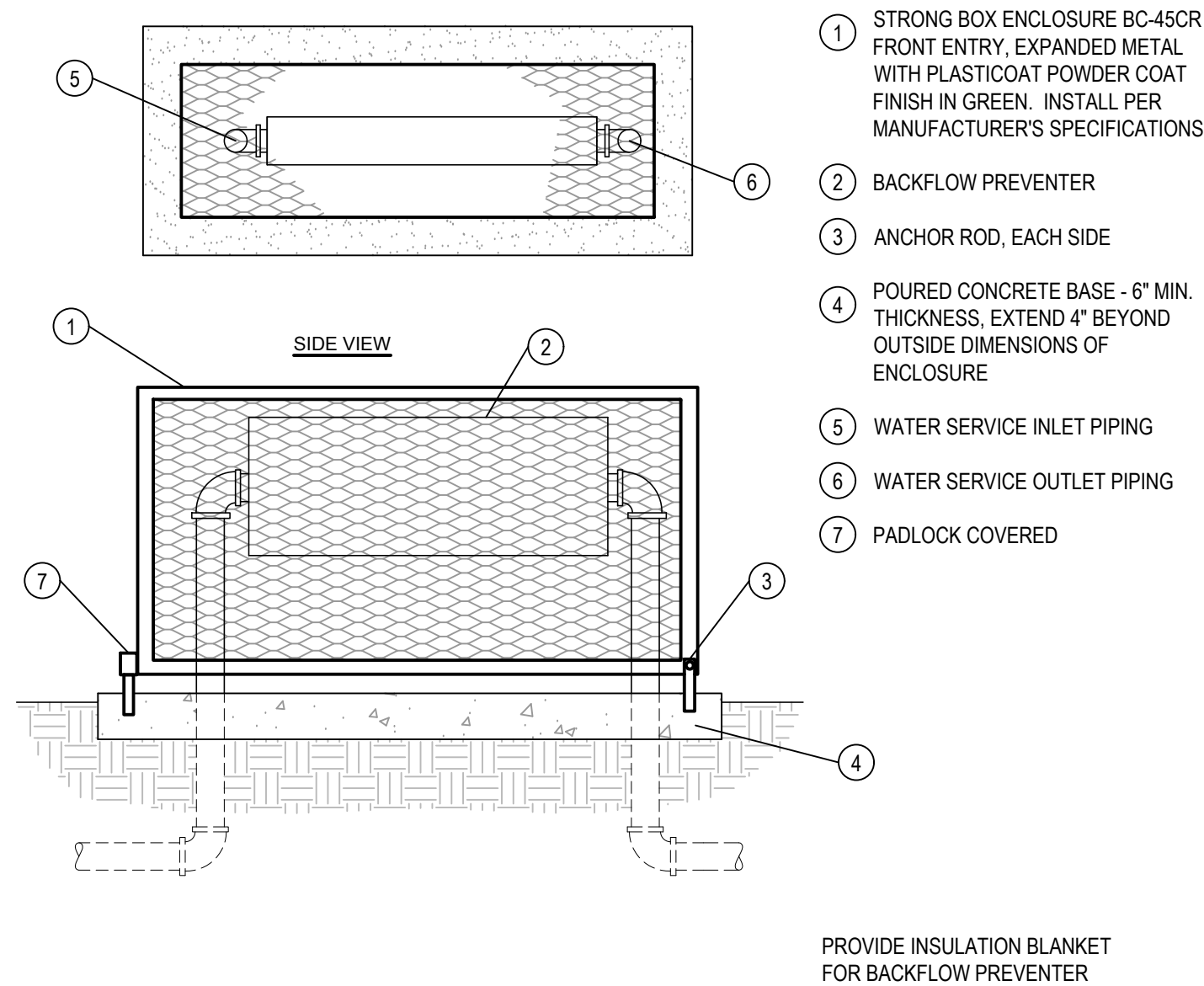
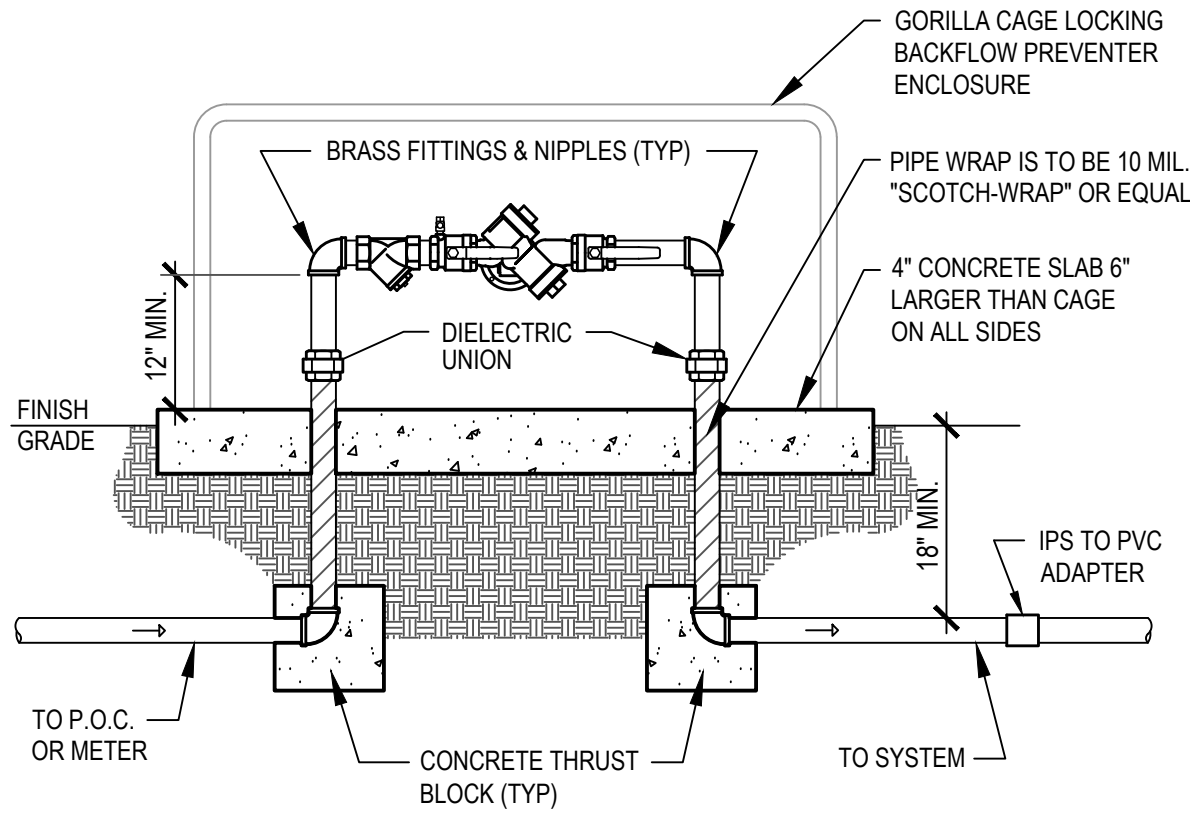
C SHRUB PLANTING

B ROOT BARRIER

A TREE PLANTING



NOTE:
PLACE ALL VALVE BOXES 12\"/>



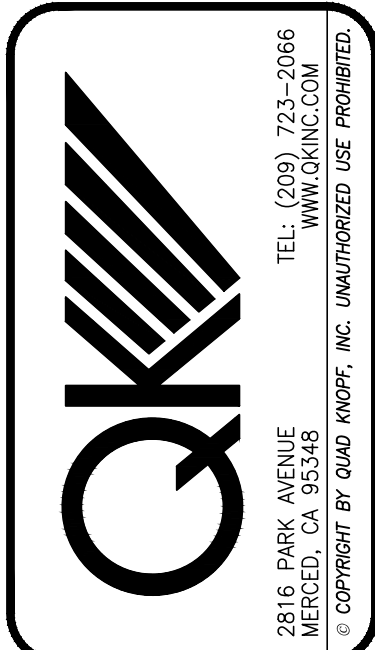
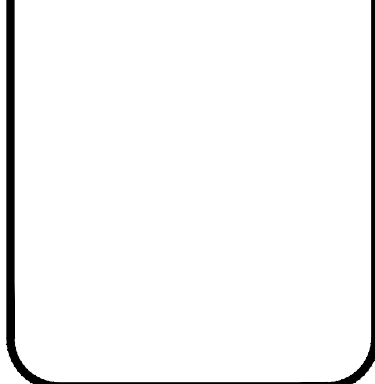
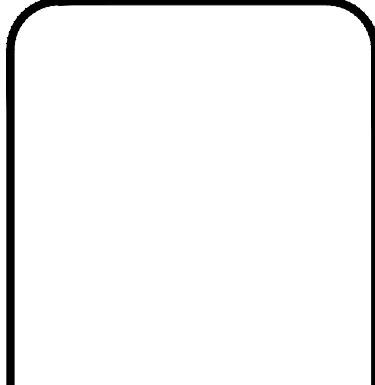
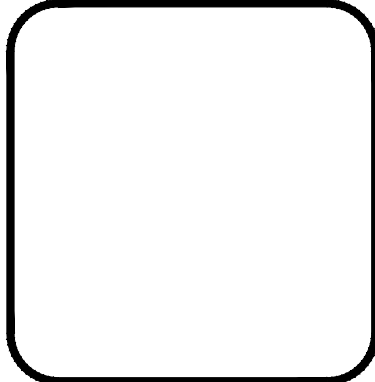
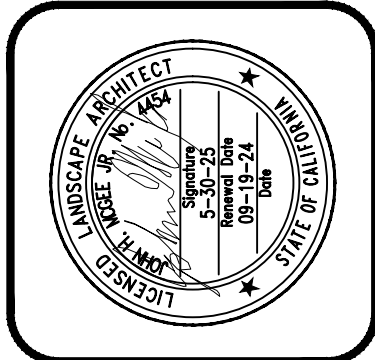
PROVIDE INSULATION BLANKET
FOR BACKFLOW PREVENTER

G SEPARATION OF IRRIGATION EQUIPMENT

F BACKFLOW PREVENTER

E BACKFLOW PREVENTER CAGE

REVISIONS		DATE	BY	DESCRIPTION



CITY OF LOS BANOS PUBLIC WORKS
411 Madison Ave,
Los Banos, CA 93635
(209) 827 - 7056

**ANIMAL SHELTER REHABILITATION
IRRIGATION AND PLANTING DETAILS**

PROJECT NO.: 220150
DRAWN BY: SM/TI
QA/QC BY: JM
SCALE: NO SCALE
SHEET NO.: 9 OF 10

1. IRRIGATION NOTES: READ FROM LEFT TO RIGHT, BOTTOM TO TOP. 2. IRRIGATION NOTES: READ FROM LEFT TO RIGHT, BOTTOM TO TOP.

IRRIGATION NOTES

PLANTING NOTES

PRESSURE LOSS CALCULATIONS

- THIS DESIGN IS DIAGRAMMATIC. EQUIPMENT SHOWN IN PAVED AREAS IS FOR DESIGN CLARIFICATION ONLY AND IS TO BE INSTALLED WITHIN PLANTED AREAS.
- SYSTEM DESIGNED WITH POC TO BE FIELD VERIFIED TO EXISTING MAINLINE. FIELD VERIFY PSI.
- IRRIGATION CONTROLLER
 - FURNISH LOW VOLTAGE SYSTEM MANUFACTURED EXPRESSLY FOR CONTROL OF AUTOMATIC CIRCUIT VALVES OF UNDERGROUND IRRIGATION SYSTEMS. PROVIDE UNIT CAPACITY TO SUIT NUMBER OF CIRCUITS REQUIRED.
 - EXTERIOR CONTROL ENCLOSURE TO BE MANUFACTURER'S STANDARD WEATHERPROOF ENCLOSURE WITH LOCKING COVER, COMPLYING WITH NFPA 70 (NATIONAL ELECTRIC CODE)
 - TRANSFORMER TO BE INTERNAL TYPE TO CONVERT BUILDING SERVICE VOLTAGE TO CONTROL VOLTAGE OF 24 VOLTS.
 - EACH CIRCUIT VARIABLE FROM APPROXIMATELY 1 TO 99 MINUTES. INCLUDE SWITCH FOR MANUAL OR AUTOMATIC OPERATION OF EACH CIRCUIT.
 - ADJUSTABLE DUAL PROGRAM, SOLID STATE ELECTRONIC 24-HOUR CLOCK TO OPERATE ANY TIME OF DAY AND SKIP ANY DAY IN A 7 OR 14 DAY PERIOD. EQUIP WITH BATTERY BACK UP TO MAINTAIN TIME KEEPING DURING POWER OUTAGES. ALLOW FOR MANUAL OR SEMI-AUTOMATIC OPERATION WITHOUT DISTURBING PRESET AUTOMATIC OPERATION.
- PROVIDE PVC SCHEDULE 40 SLEEVES FOR ALL PIPES AND CONTROL WIRE UNDER PAVING PRIOR TO PAVING. SLEEVE TO BE 2X THE DIAMETER OF THE PIPE.
- PRESSURE PIPE SHALL COMPLY WITH THE FOLLOWING AND HAVE A MINIMUM 18" COVERAGE:
 - PVC PLASTIC PIPE, ASTM D 1785, PVC 1120, SCHEDULE 40, 160 PSI.
 - GALVANIZED STEEL PIPE, ASTM A 120, SCHEDULE 40.
- LATERAL PIPE (DOWNSTREAM FROM CIRCUIT VALVES) SHALL COMPLY WITH THE FOLLOWING AND HAVE A MINIMUM 12" COVERAGE:
 - PVC PLASTIC PIPE, ASTM D 2241, PVC 1120, SDR 21, 200 PSI.
- VALVES: MANUFACTURER'S STANDARD, OF TYPE AND SIZE INDICATED, AND AS FOLLOWS:
 - AUTOMATIC CIRCUIT VALVES: PLASTIC-BODIED GLOBE OR ANGLE VALVES OPERATED BY LOW-VOLTAGE SOLENOID, NORMALLY CLOSED, MANUAL FLOW ADJUSTMENT.
- VALVE BOX: MANUFACTURER'S STANDARD PLASTIC UNIT, WITH LABELED COVER, FOR EACH GROUP OF VALVES. NO MORE THAN 2 VALVES PER VALVE BOX.
- IRRIGATION WIRE TO BE 12 AWG MINIMUM. PROVIDE 3 SPARE WIRES FROM THE CONTROLLER TO ALL VALVES. PROVIDE A 5' MINIMUM LOOP FOR EACH WIRE IN EACH VALVE BOX IN CASE OF MAINTENANCE.
- IRRIGATION CONTRACTOR SHALL FLUSH ALL LINES AND ADJUST ALL HEADS FOR MAXIMUM PERFORMANCE AND TO PREVENT OVERSPRAY ONTO WALKS. MAKE MINOR ADJUSTMENTS AS NECESSARY TO AVOID PLANTINGS AND OTHER OBSTRUCTIONS, SUCH AS SIGN STANDARDS AND LIGHT POLES.

- SPRAY A NONSELECTIVE TRANSLOCATIVE HERBICIDE, AS RECOMMENDED BY MANUFACTURER'S SPECIFICATION, TO ERADICATE THE GERMINATED WEEDS. LEAVE SPRAYED PLANTS INTACT FOR AT LEAST 15 DAYS IN COLD WEATHER AND 10 DAYS IN WARM WEATHER.
- PRIOR TO PLANTING OPERATIONS, CONTRACTOR SHALL PROVIDE SOIL SAMPLES TO A CERTIFIED LAB TO PROVIDE RECOMMENDATIONS FOR SOIL AMENDMENTS TO BE ADDED TO PLANTER BEDS. SAMPLE LOCATIONS ON PLAN FOLLOW SOILS LAB INSTRUCTIONS ON SAMPLES. PROVIDE A COPY OF THE REPORT TO THE CITY AND OK. INCORPORATE COMPOST AT A MINIMUM RATE OF 4 CUBIC YARDS PER 1,000 SQUARE FEET OF PLANTING AREA TO A DEPTH OF 6" INTO THE SOIL. FINAL RECOMMENDATIONS PER APPROVED SOILS REPORT WILL SUPERSEDE RECOMMENDED MINIMUMS.
NOTE: SOILS WITH GREATER THAN 6% ORGANIC MATTER IN THE TOP 6 INCHES OF SOIL ARE EXEMPT FROM ADDING COMPOST AND TILLING
- ALL PLANTER AREAS NOT IN TURF REQUIRE 3" SUPERIOR RED FIR BARK. SEND SAMPLE TO APPROVING AGENCY FOR ACCEPTANCE.
- AT PLANTING STAGE - TREES SHALL BE ADJUSTED SO AT MATURITY THE DRIP LINE SHALL BE A MINIMUM OF 5 FEET FROM ANY POWER POLE, GUIDE WIRE, AND STREETLIGHT.
- TILL SOIL A MINIMUM OF 12" AND ADD THE FOLLOWING AMENDMENTS:
4 CUBIC YARDS OF SUPERIOR ALL GREEN COMPOST PER 1000 S.F.
50 LBS. OF GYPSUM PER 1000 S.F.
50 LBS. OF TERRA C HUMATE PER 1000 S.F.
13 LBS. OF BEST TRIPLE-PRO 15-15-15 PER 1000 S.F.
4.5 LBS. OF BEST NK BASIC 22-0-6 PER 1000 S.F.
- PLANTING SOIL MIXTURE: BACKFILL FOR TREES AND SHRUBS PROVIDE SPECIFIED MATERIALS IN NOT LESS THAN THE FOLLOWING QUANTITIES:
7 PARTS OF SCREENED TOPSOIL, SCREEN PASSING NOT LARGER THAN 1" IN ANY DIRECTION.
3 PARTS OF SUPERIOR ALL GREEN COMPOST.
CONTROLLED RELEASE FERTILIZER TABLETS 20-10-5
- TREES SHALL BE STAKED WITH 2 LODGE POLE PINE TREE STAKES. TREE TIES PER DETAILS.
- ANY CHANGES IN PLANT MATERIAL MUST BE APPROVED BY THE APPROVING AGENCY IN WRITING.
- AFTER FINAL APPROVAL OF THE WORK, THE PROJECT SHALL BE MAINTAINED FOR 90 DAYS FROM N.O.C. THIS INCLUDES KEEPING THE PLANTERS COMPLETELY FREE OF TRASH AND WEEDS AT ALL TIMES DURING THE MAINTENANCE PERIOD. ADD A BALANCED FERTILIZER AT A RATE OF 1 L. B. / 1,000 SQUARE FEET 2 WEEKS PRIOR TO CITY'S FINAL ACCEPTANCE.
- AFTER COMPLETION OF ALL OPERATIONS, CONTRACTOR SHALL REMOVE ALL TRASH, EXCESS SOIL AND OTHER DEBRIS. ALL WALKS, WALLS AND PAVEMENT SHALL BE SWEPT CLEAN, LEAVING THE ENTIRE AREA IN A NEAT, ORDERLY CONDITION.
- AFTER PLANTING IS COMPLETE, THE CONTRACTOR SHALL APPLY A PRE-EMERGENT HERBICIDE SUCH AS "RONSTAR" TO ALL NON-SEEDED AREAS ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- TREE MUST CONFORM TO SPECIFICATION GUIDELINES FOR CONTAINER GROWN TREES PER ANSI Z60.1 11. TREES MUST HAVE NURSERY TAGS WITH GENUS, SPECIES AND CULTIVAR.
- CONTRACTOR IS REQUIRED TO SUBMIT PHOTOS OF ALL PLANT MATERIALS IN THE APPROPRIATE SIZE AND SHAPE FOR APPROVAL FROM QK INC.

Pressure Loss Calculations - Los Banos Animal Shelter Rehabilitation				
Controller:	1	Station:	C 1-7	Max: GPM 12.2
			Available PSI:	50
Main Line Losses				PSI Loss
1 1/2" Meter				0
1 1/2" Backflow Preventor (FEBCO 825Y)				6.5
1 1/2" Main Line				2
1 1/2" Master Valve				0
1 1/2" Ball Valve (SPEARES-1829 SERIES)				0.5
Fittings (10% OR 5 PSI)				0.9
Sub Total:				9.9
Lateral Section Losses				
1" Hunter (IC2-101-LE-AS-AD)				3
Lateral Pipe				6
Fittings (10% OR 5 PSI)				0.9
Sub Total:				19.8
PSI Loss for system				
Operating Pressure				30
Elevation Adjustment				0
Sub Total:				49.8
Available PSI at the Meter				50
Minus total PSI loss for System				49.8
RESIDUAL PSI				0.2

Los Banos Animal Shelter Rehabilitation - Water Efficient Landscape Worksheet							
Reference Eto	49.8						
Hydrozone/Plant Description	Plant Factor (PF)	Irrigation Method	Irrigation Efficiency (IE)	ETAF (PF/IE)	Landscape Area (S.F.)	ETAF x Area	Estimated Total Water Use (ETWU)
Regular Landscape Area							
H21 - Low (Shrubs)	0.2	Drip	0.81	0.25	197	49	1502
				Totals	197	49	1502
Special Landscape Area- Turf							
				1	4014	2675	82593
ETWU Total							84095
MAWA Total							
Eto		0.62	ETAF	LA	1-ETAF	SLA	
49.8		0.62	0.45	4211	0.55	4014	126673
MAWA-ETWU=							42578

