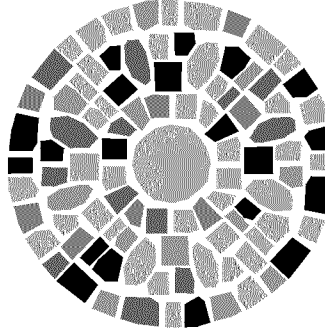


DEMOLITION LEGEND

- 1 HATCH DENOTES EXISTING TURF GRASS AND IRRIGATION SYSTEM TO BE REMOVED. REFER TO DEMOLITION NOTES ON THIS SHEET.
- 2 HATCH DENOTES EXISTING TURF GRASS AND IRRIGATION CONTROL VALVES, HEADS AND LATERAL LINES TO REMAIN AND BE PROTECTED.
- 3 EXISTING TREES TO REMAIN, PROTECT IN PLACE
- 4 EXISTING TREES TO BE REMOVED. THESE TREES TO HAVE TRUNKS GRINDED DOWN 12" BELOW GRADE. SURFACE ROOTS IN UPPER 12" OF SOIL TO BE REMOVED.
- 5 EXISTING CONCRETE BENCH AROUND TREE TO REMAIN
- 6 EXISTING IRRIGATION CONTROL VALVE BOX AND BATTERY OPERATED CONTROL VALVE(S) WITHIN TO BE REMOVED.

DEMOLITION NOTES

1. EXISTING TURF GRASS INDICATED AS TO BE REMOVED, SHALL BE SPRAYED THROUGHLY WITH A MIXTURE OF ROUNDUP PRO (3 PARTS) TO FUSILADE (1 PART).
2. IF NUT SEDGE IS PRESENT IN THE EXISTING TURF, IT SHALL BE SPRAYED WITH SEDGEHAMMER+ (THE PLUS INDICATES THAT THE MIXTURE CONTAINS A SURFACTANT WHICH IS CRITICAL TO BE EFFECTIVE. DO NOT IRRIGATION WITHIN TWO DAYS OF SPRAYING. DO NOT SPRAY WITHIN 2 DAYS OF A RAIN EVENT. ALLOW 1 MONTH IN SCHEDULE FOR A EFFECTIVE REMOVAL. APPLY SECOND APPLICATION IF NECESSARY.
3. ALL SPRAYING SHALL BE DONE BY AN INDIVIDUAL POSSESSING A VALID QUALIFIED APPLICATOR CERTIFICATE.
4. PROPER PPE SHALL BE WORN BY THE APPLICATOR.
5. SPRAYING TO BE DONE UNDER NON-WINDY CONDITIONS, WHILE THERE ARE NO PEOPLE PRESENT.
6. EXISTING IRRIGATION CONTROL VALVE BOX AND CONTROL VALVE WITHIN TO BE REMOVED
6. ONCE KILL OCCURS, MOW THE FOLIAGE CLOSE TO THE FINISH GRADE. CLEAR AND GRUB THE AREAS TO BE SOIL PREPARED BEFORE HYDROSEEDING NEW TURFGRASS.
7. EXISTING MAINLINES THAT ARE WITHIN THE SCOPE OF WORK SHALL BE CAPPED AND REMOVED/ABANDONED.
8. EXISTING CONTROL VALVES, VALVE BOXES, IRRIGATION ROTOR AND SPRAY HEADS WITHIN THE SCOPE OF WORK SHALL BE REMOVED AND RETURNED TO AUTHORIZED DISTRICT REPRESENTATIVE.
9. EXISTING LATERAL LINES FOR IRRIGATION SYSTEMS WITHIN THE SCOPE OF WORK TO BE REPLACED WITH NEW, SHALL BE CAPPED AND REMOVED/ABANDONED.



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KINDERGARTEN
SITEWORK - PH II

FOR:
GREENFIELD UNION
ELEMENTARY SCHOOL
DISTRICT

PLANZ ELEMENTARY SCHOOL
2400 PLANZ RD
BAKERSFIELD , CA 93304

MARK	DATE	DESCRIPTION

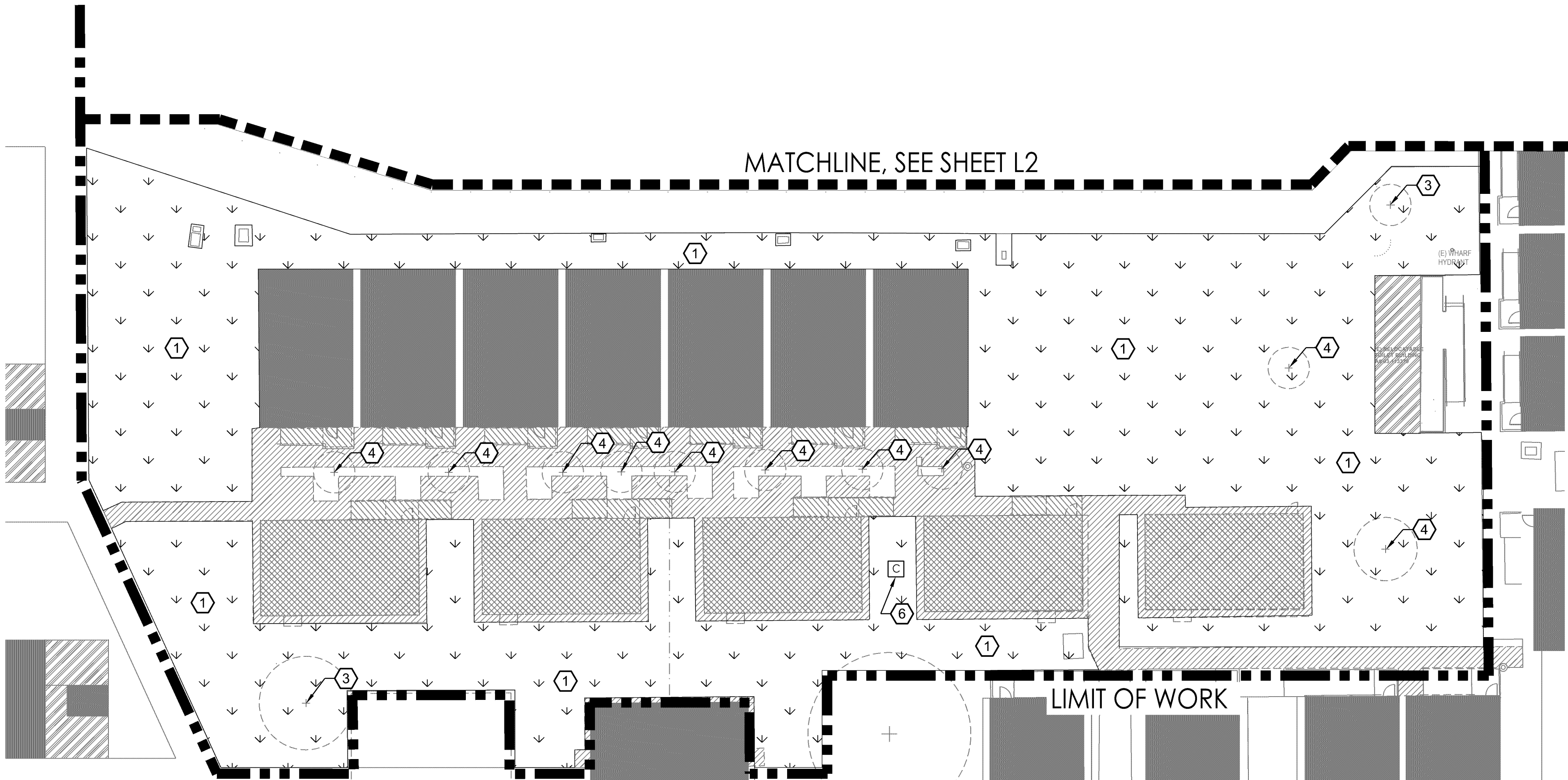
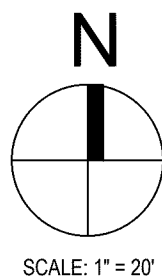
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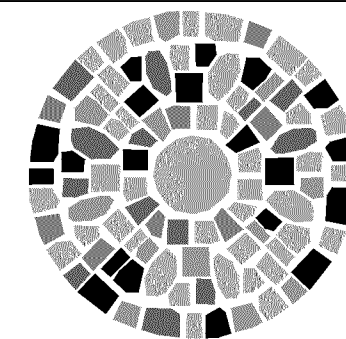
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DEMOLITION PLAN

SHEET IDENTIFICATION NUMBER

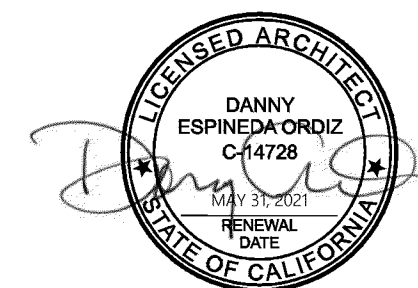
L1

13 SHEETS IN SET





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(E) **FOR:**
GREENFIELD UNION
ELEMENTARY SCHOOL
DISTRICT

PLANZ ELEMENTARY SCHOOL
2400 PLANZ RD
BAKERSFIELD , CA 93304

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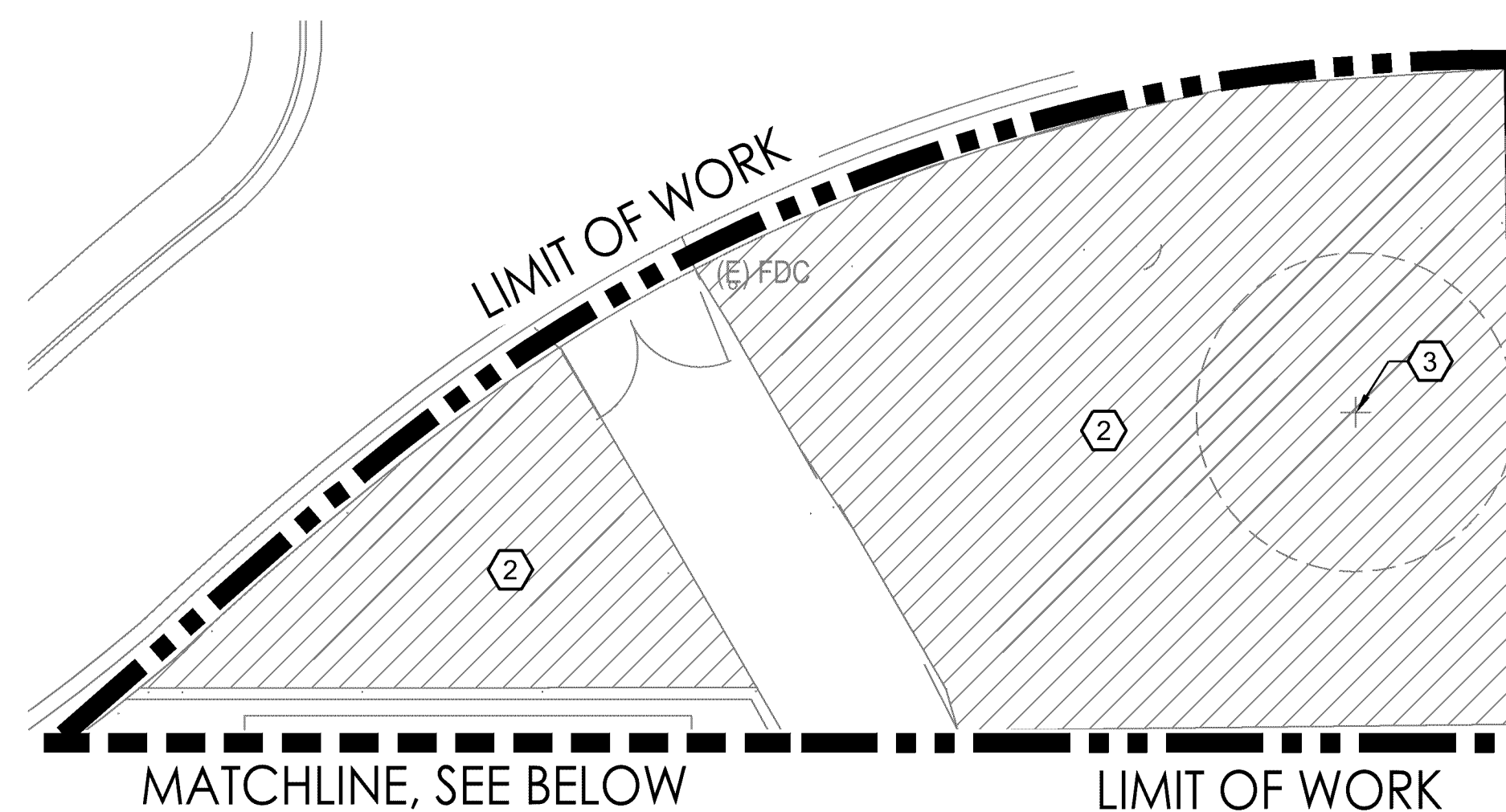
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DEMOLITION PLAN

SHEET IDENTIFICATION NUMBER

L2

13 SHEETS IN SET



DEMOLITION LEGEND

- ① HATCH DENOTES EXISTING TURF GRASS AND IRRIGATION SYSTEM TO BE REMOVED. REFER TO DEMOLITION NOTES ON SHEET L1.
- ② HATCH DENOTES EXISTING TURF GRASS AND IRRIGATION CONTROL VALVES, HEADS AND LATERAL LINES TO REMAIN AND BE PROTECTED.
- ③ EXISTING TREES TO REMAIN, PROTECT IN PLACE
- ④ EXISTING TREES TO BE REMOVED.
- ⑤ EXISTING CONCRETE BENCH AROUND TREE TO REMAIN

MATCHLINE, SEE ABOVE


LIMIT OF WORK

(E) SOLAR PANELS
A# 03-111811

LIMIT OF WORK

E) FIRE/MAINTENANCE ACCESS ROAD

N



SCALE: 1" = 20'

SCALE: 1" = 20'

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PLOT DATE: 10/1/2020
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RDS# 20-575

OCT. 23, 2020

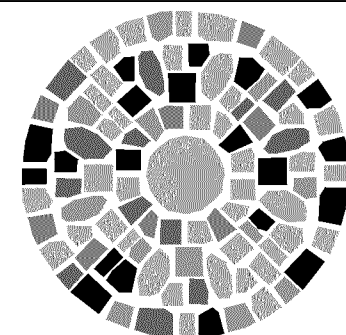
LACEY STREET

VALVE IDENTIFICATION KEY

VALVE STATION NUMBER VALVE G.P.M.
VALVE SIZE TURF SYSTEM DESCRIPTION

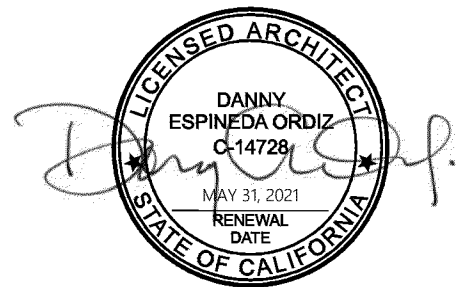
NOTES

REFER TO SHEET L7 FOR IRRIGATION LEGEND & NOTES.
REFER TO SHEETS L8, L9 & L10 FOR IRRIGATION DETAILS.
MAXIMUM DESIGN FLOW DEMAND- 77 GPM



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KINDERGARTEN
SITEWORK - PH II

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SHEET TITLE

TURF IRRIGATION
PLAN

SHEET IDENTIFICATION NUMBER

L3

SHEETS IN SET

RDS# 20-575

OCT. 23, 2020

(E) PARKING LOT

(E) PLAY FIELD AREA

GRASS PLAYFIELD

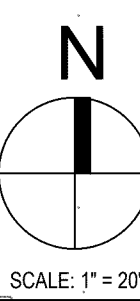
(E) TRACK LANES (TYP)

KINDERGARTEN
PLAY AREA

(E) SHADE
STRUCTURE
A# 03-111811

(E) FIREMAINTENANCE ACCESS ROAD

TRANSF



SCALE: 1" = 20'

NOTE TO CONTRACTOR-
CAL WATER HAS PROVIDED AN ESTIMATED WATER PRESSURE RANGE BETWEEN 45 AND 65 PSI. BEFORE COMMENCING WORK, CONTRACTOR SHALL HAVE A PRESSURE GAUGE THAT RECORDS PRESSURE OVER A 24 HR PERIOD ON THE DOWNSTREAM SIDE OF THE BACKFLOW PREVENTER. THE WATER PRESSURE READING SHALL BE PROVIDED TO THE LANDSCAPE ARCHITECT TO DETERMINE IF A BOOSTER PUMP WILL NEED TO BE PROVIDED. IRRIGATION ROTOR SYSTEMS ON THE LARGE SPORTFIELD, WILL REQUIRE A MINIMUM OF 53 PSI AT THE DOWNSIDE OF THE BACKFLOW DEVICE.

EXISTING IRRIGATION SYSTEMS, NOT WITHIN THE SCOPE OF WORK OF THIS PROJECT, SHALL CONTINUE TO OPERATE UNINTERRUPTED. THE MAINLINES THAT SERVE THOSE CONTROL VALVES SHALL BE CONNECTED TO THE NEW MAINLINE INDICATED ON THESE PLANS. THE EXISTING CONTROLLER, LOCATED IN THE JANITOR'S CLOSET SHALL CONTINUE TO OPERATE THOSE CONTROL VALVES. THE NEW CONTROLLER SPECIFIED ON THESE PLANS SHALL OPERATE THE NEW IRRIGATION SYSTEMS SHOWN ON THESE PLANS AND CONTROL VALVES INDICATED ON NOTE 'A' BELOW.

NOTE 'A'-
EXISTING VALVE BOXES AT LOCATION 'A'-
TWO VALVE BOXES AT THIS LOCATION WITH TWO BATTERY OPERATED CONTROL VALVES IN EACH. REMOVE ANY CONTROL VALVES THAT ARE NO LONGER NEEDED. CONTROL VALVES NEEDED TO OPERATE EXISTING SYSTEMS TO REMAIN SHALL BE CONNECTED TO NEW MAINLINE. CONNECT TO NEW 2-WIRE CABLE WITH DECODERS.
EXISTING VALVE BOXES AT LOCATION 'B'-
ONE VALVE BOX AT THIS LOCATION WITH THREE BATTERY OPERATED CONTROL VALVES AND CONNECTED HEADS AND LATERAL LINES TO REMAIN. CONNECT ALL THREE CONTROL VALVES TO NEW MAINLINE. CONNECT TO NEW 2-WIRE CABLE WITH DECODERS.

EXISTING 4" RP BACKFLOW TO REMAIN.
P.O.C. TO BE DOWNSTREAM OF EXISTING BACKFLOW UNIT.

IRRIGATION CONTROLLER-
PROVIDE 2-WIRE CABLE INTO JANITOR CLOSET TO NEW CONTROLLER LOCATION.

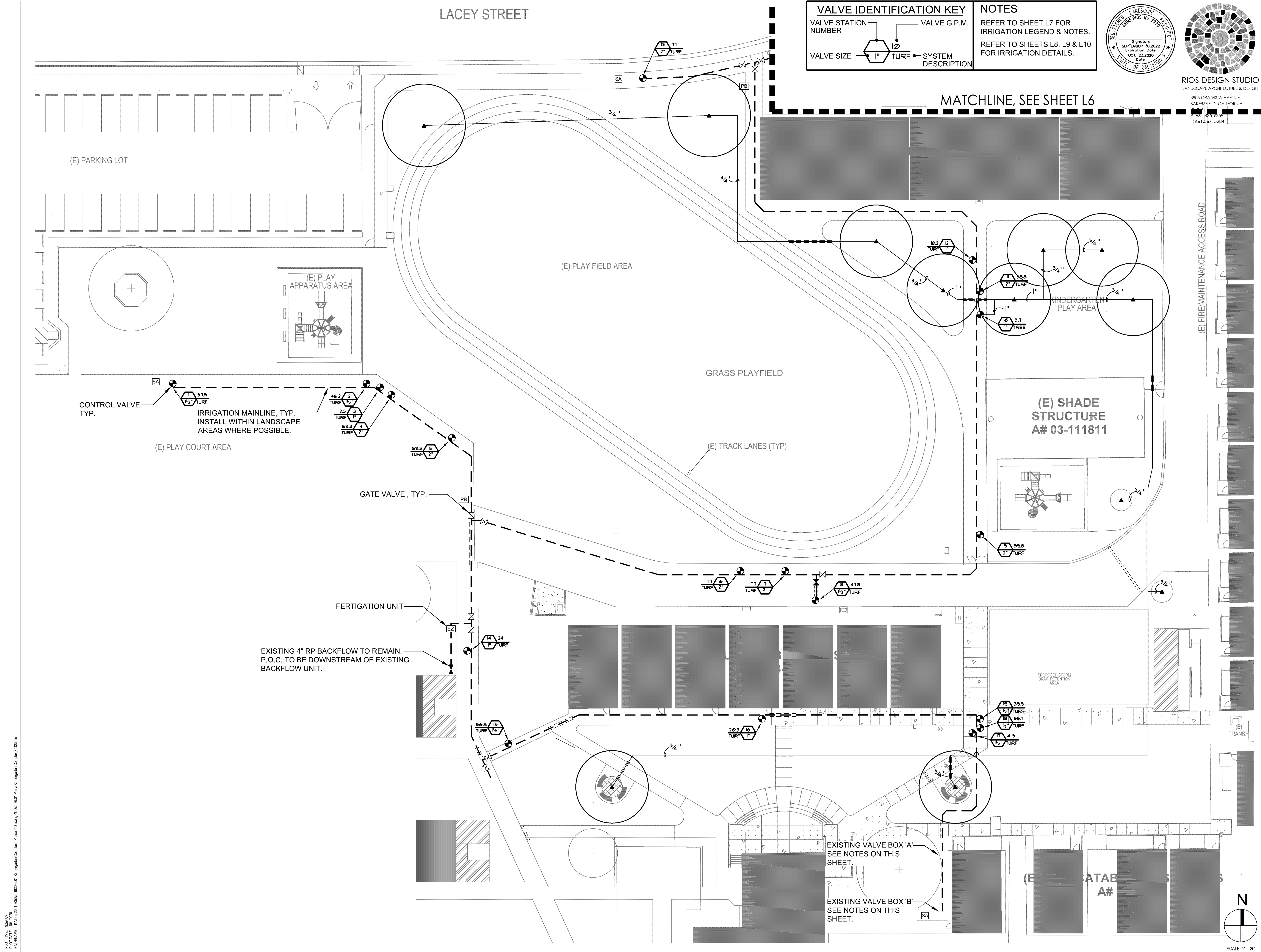
CONTROLLER GROUNDING EQUIPMENT

WIRELESS SOLAR SYNC SENSOR

8" PIPE SLEEVE & 1" WIRE SLEEVE

CONNECT NEW MAINLINE TO EXISTING IRRIGATION MAINLINE TO REMAIN

PLOT TIME: 9:59 AM
PLOT DATE: 10/10/2020
PLOT USER: J. L. ORDIZ
C:\Users\jlordiz\OneDrive\Documents\2036.01 Planz Kindergarten Complex_CD23.dwg



VALVE IDENTIFICATION KEY

VALVE STATION NUMBER

VALVE SIZE

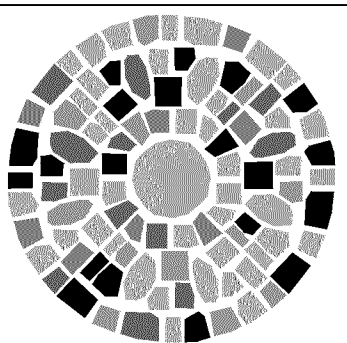
VALVE G.P.M.

SYSTEM DESCRIPTION

NOTES

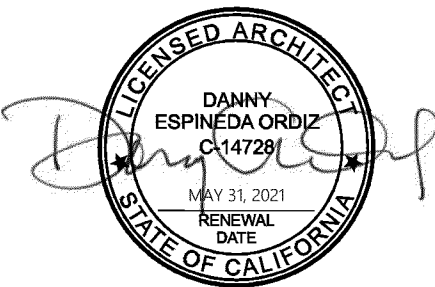
REFER TO SHEET L7 FOR IRRIGATION LEGEND & NOTES.

REFER TO SHEETS L8, L9 & L10 FOR IRRIGATION DETAILS.



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KINDERGARTEN SITEWORK - PH II

FOR:
**GREENFIELD UNION
ELEMENTARY SCHOOL
DISTRICT**

PLANZ ELEMENTARY SCHOOL
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MARK	DATE	DESCRIPTION

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SHEET TITLE

TREE IRRIGATION PLAN

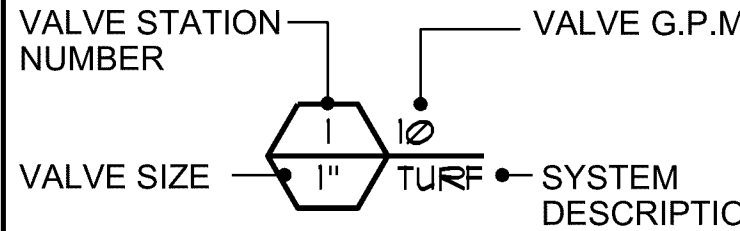
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L5

13 SHEETS IN SET

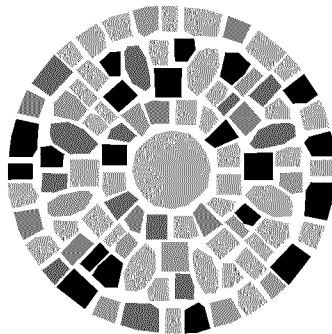
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VALVE IDENTIFICATION KEY



NOTES

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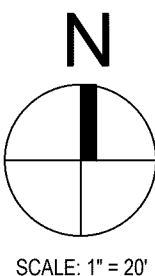
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TREE IRRIGATION
PLAN

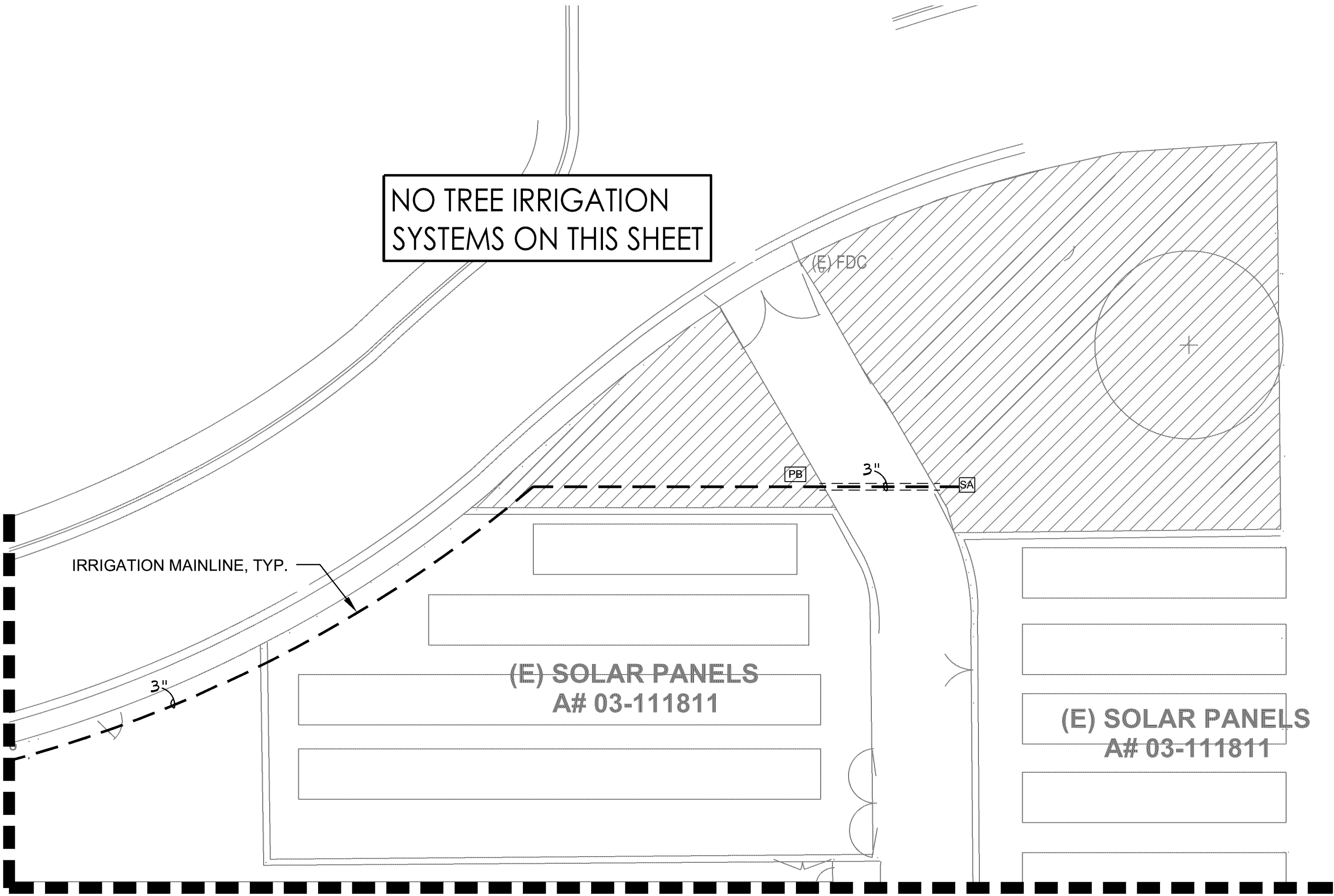
SHEET IDENTIFICATION NUMBER

L6

13 SHEETS IN SET



NO TREE IRRIGATION
SYSTEMS ON THIS SHEET



MATCHLINE, SEE SHEET L5

IRRIGATION PLAN NOTES

CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO FURNISH AND INSTALL THE IRRIGATION SYSTEM AS SHOWN ON THE DRAWINGS, AS DESCRIBED IN THE SPECIFICATIONS, AND IN ACCORDANCE WITH APPLICABLE CODES AND ORDINANCES.

DRAWINGS ARE DIAGRAMMATIC. CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTMENTS NECESSARY TO CONFORM TO ACTUAL FIELD CONDITIONS.

CONTRACTOR SHALL FLUSH ALL LINES AND ADJUST ALL HEADS FOR OPTIMUM PERFORMANCE IN ACCORDANCE WITH THE SPECIFICATIONS AND TO PREVENT OVERSPRAY ONTO HARDSCAPE AREAS OR STRUCTURAL ELEMENTS. THIS SHALL INCLUDE SELECTING THE BEST DEGREE OF ARC TO FIT ACTUAL SITE CONDITIONS AND TO THROTTLE THE FLOW CONTROL AT EACH VALVE TO OBTAIN THE OPTIMUM OPERATING PRESSURE FOR EACH SYSTEM. COSTS INCURRED DUE TO ANY ADJUSTMENTS FOR 100% COVERAGE, INCLUDING THOSE REQUESTED BY THE DISTRICT'S AUTHORIZED REPRESENTATIVE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

SYSTEM DESIGN IS BASED ON A MINIMUM OPERATING PRESSURE (P.S.I.) AND A MAXIMUM DEMAND (G.P.M.) AS SHOWN AT EACH POINT OF CONNECTION ON THE DRAWINGS. CONTRACTOR SHALL VERIFY PRESSURE AND DEMAND AT EACH POINT OF CONNECTION PRIOR TO COMMENCING INSTALLATION AND SUBMIT SUCH IN WRITING TO THE DISTRICT'S AUTHORIZED REPRESENTATIVE. IF ANY DISCREPANCIES EXIST, THEY SHOULD BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE DISTRICT'S AUTHORIZED REPRESENTATIVE.

EQUIPMENT SHOWN IN HARDSCAPE AREAS ARE FOR DESIGN CLARIFICATION ONLY AND SHALL BE INSTALLED WHENEVER POSSIBLE WITHIN PLANTED AREAS A REASONABLE, REACHABLE DISTANCE FROM HARDSCAPE OR TURF AREAS

UNLESS OTHERWISE NOTED ON THE DRAWINGS, CONTRACTOR SHALL INSTALL WIRE AND PIPE UNDER HARDSCAPE AREAS IN P.V.C. SCHEDULE 40 SLEEVES PLACED PRIOR TO INSTALLING HARDSCAPE IN ACCORDANCE WITH APPLICABLE CODES.

WHEREVER POSSIBLE, CONTROL WIRES SHALL OCCUPY THE SAME TRENCH AS PIPES.

EACH CONTROLLER SHALL HAVE ITS OWN INDEPENDENT GROUND WIRE.

SPLICING OF 24 VOLT WIRES WILL NOT BE PERMITTED EXCEPT IN PULLBOX VALVE BOXES. CONTRACTOR TO LEAVE A 24" COIL OF EXCESS WIRE AT EACH SPLICE AND EVERY PULLBOX.

WIRE CONNECTORS SHALL BE AS PER LEGEND OR APPROVED EQUAL.

CONTROL VALVES SHALL BE SIZED AS DESIGNATED ON THE DRAWINGS AND SHALL BE INSTALLED IN VALVE BOXES AS INDICATED IN THE DETAILS. BOXES SHALL BE SET FLUSH WITH THE FINISH GRADE OR SURFACE AND PERMANENTLY MARKED WITH THE LETTERS R.C.V. AND STATION NUMBER.

CONTRACTOR SHALL INSTALL ANTI-DRAIN CHECK VALVES AS NECESSARY TO PREVENT LOW HEAD DRAINAGE.












































IRRIGATION HEADS SHALL BE SET PERPENDICULAR TO FINISH GRADE OF THE AREA TO BE IRRIGATED UNLESS OTHERWISE DESIGNATED ON THE PLANS.

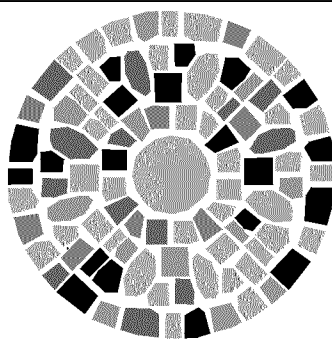
TWO-WIRE CABLE RUNS

CONTRACTOR SHALL INSTALL TWO (2) SEPARATE 2-WIRE RUNS FOR THIS PROJECT. EACH WIRE RUN SHALL BE HAVE A DIFFERENT COLOR JACKET.

2-WIRE CABLE RUN #1 SHALL CONTROL STATIONS 1-13. (BLUE COLOR JACKET)
2-WIRE CABLE RUN #2 SHALL CONTROL STATIONS 14-19. (RED COLOR JACKET)

IRRIGATION LEGEND

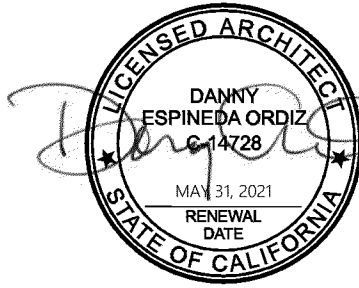
SYMBOL						MANUF	MODEL NUMBER				PSI	RADIUS		GPM		DET REF		
F	TQ	TT	H	T	Q							F	TQ	TT	H	T	Q	
						HUNTER	I-25-06-SS 6" POP-UP ROTOR W/ SS RISER & #08 FULL CIRCLE NOZZLE	40	38'	7.7							A/L10	
						HUNTER	I-25-06-SS 6" POP-UP ROTOR W/ SS RISER & #08 PART CIRCLE NOZZLE	40	38'					7.7			A/L10	
						HUNTER	I-25-06-SS 6" POP-UP ROTOR W/ SS RISER & #08 PART CIRCLE NOZZLE	40	38'						7.7		A/L10	
						HUNTER	I-25-06-SS 6" POP-UP ROTOR W/ SS RISER & #08 PART CIRCLE NOZZLE	40	38'							7.7	A/L10	
						HUNTER	I-20-06-SS-PRB 6" POP-UP ROTOR W/ SS RISER & MPR-35 FULL CIRCLE NOZZLE	35	27'	6.62							B/L10	
						HUNTER	I-20-06-SS-PRB 6" POP-UP ROTOR W/ SS RISER & MPR-35 HALF CIRCLE NOZZLE	35	27'					3.33			B/L10	
						HUNTER	I-20-06-SS-PRB 6" POP-UP ROTOR W/ SS RISER & MPR-35 THIRD CIRCLE NOZZLE	35	27'						2.15		B/L10	
						HUNTER	I-20-06-SS-PRB 6" POP-UP ROTOR W/ SS RISER & MPR-35 QUARTER CIRCLE NOZZLE	35	27'							1.67	B/L10	
						HUNTER	I-20-06-SS-PRB 6" POP-UP ROTOR W/ SS RISER & MPR-30 FULL CIRCLE NOZZLE	25	23'	4.24							B/L10	
						HUNTER	I-20-06-SS-PRB 6" POP-UP ROTOR W/ SS RISER & MPR-30 HALF CIRCLE NOZZLE	25	23'					2.15			B/L10	
						HUNTER	I-20-06-SS-PRB 6" POP-UP ROTOR W/ SS RISER & MPR-30 THIRD CIRCLE NOZZLE	25	23'						1.34		B/L10	
						HUNTER	I-20-06-SS-PRB 6" POP-UP ROTOR W/ SS RISER & MPR-30 QUARTER CIRCLE NOZZLE	25	23'							1.03	B/L10	
						HUNTER	PROS-06-PRS30-CV WITH PROSPRAY 15 FIXED ARC NOZZLES	30	15'	3.75	2.92	2.48	1.86	1.30	0.97		C/L10	
						HUNTER	PROS-06-PRS30-CV WITH PROSPRAY 12 FIXED ARC NOZZLES	30	12'	2.70	2.00	1.74	1.30	0.89	0.67		C/L10	
						HUNTER	PROS-06-PRS30-CV WITH PROSPRAY 10 FIXED ARC NOZZLES	30	10'	1.59				0.88	0.57	0.42	C/L10	
						HUNTER	PROS-06-PRS30-CV WITH PROSPRAY 10A ADJUSTABLE ARC NOZZLES	30	10'	2.00	1.50	1.33	1.00	0.67	0.50		C/L10	
						HUNTER	HDL-09-12-CV- DRILINE WITH .9 GPH INLINE EMITTERS AT 12" O.C. INSTALLED AT 4" BELOW GRADE OVER TREE ROOT BALLS.	15	DRIP	.47 GPM TREE							D,E&F/L10	
SYMBOL	MANUFACTURER					MODEL NUMBER												DET REF
NO SYMBOL						EXISTING 4"-6" COMPOUND WATER METER TO REMAIN												
	HUNTER					(MODEL #IC-600-PL + DUAL48M) 48 STATION 2-WIRE CONTROLLER WITH HUNTER PLASTIC WALL MOUNT CONTROLLER ENCLOSURE. INSTALL WITHIN JANITOR CLOSET ADJACENT TO EXISTING CONTROLLER.												A/L8
	HUNTER					(MODEL #WSS-SEN) WIRELESS SOLAR SYNC, INCLUDES SOLAR SYNC SENSOR AND WIRELESS RECEIVER. INSTALL SENSOR ON SOUTH FACING BUILDING EAVE, EXPOSED TO ELEMENTS AND CONFIRM CONNECTIVITY WITH CONTROLLER.												B/L8
	FEBCO					EXISTING (MODEL#860V) 4" RP BACKFLOW PREVENTER TO REMAIN												
	EZ-FLO					(MODEL#EZ025-HC) 25 GALLON CAPACITY FERTILIZING SYSTEM INSTALL ONTO IRRIGATION MAINLINE USING HFC-400, (4" HI-FLO COUPLING CONNECTION WITH BALL VALVE)												C/L8
	LEEMCO					(MODEL#LMV SERIES) PUSH ON GATE VALVE, LINE SIZE FOR MAINLINES 3" AND LARGER												D/L8
	MATCO OR NIBCO					(MODEL#513T) GATE VALVE (MODEL#T-113) GATE VALVE LINE SIZE FOR MAINLINES 2 1/2" AND SMALLER												E/L8
	HUNTER					(MODEL#ICV-XXXG-FS-AS-ADJ) PRESSURE REGULATING CONTROL VALVE WITH FILTER SENTRY FEATURE - SIZE PER PLAN												F/L8
	HUNTER					(MODEL#ICV-XXXG-FS) CONTROL VALVE WITH FILTER SENTRY FEATURE -SIZE PER PLAN												F/L8
NO SYMBOL	HUNTER					(MODEL#DUAL-1) SINGLE STATION DECODER INSTALL ONE SINGLE STATION DECODER AT EACH CONTROL VALVE LOCATED WITHIN VALVE BOX												G/L8
	HUNTER					DUAL SURGE ARRESTOR (INCLUDES 4 DBRY-6 CONNECTORS) INSTALL AT EVERY 12 DECODERS MAX. OR 1000 LINEAL FEET MAX (WHICH EVER IS LESS)												H/L8
	AS APPROVED					PVC PIPE SCH 40 MAINLINES TO BE USED FOR PIPES 2 1/2" AND SMALLER, SIZE PER PLAN PVC PIPE BELL AND GASKET "O" RING TYPE CL200 MAINLINES TO BE USED FOR PIPES 3" AND LARGER, SIZE PER PLAN MAINLINES 3" SIZE AND LARGER TO BE CONNECTED USING HARCO OR LEEMCO FITTINGS AND JOINT RESTRAINTS INSTALL IN LANDSCAPE AREA WHEREVER POSSIBLE. INSTALL THRUST BLOCKS AT MAINLINE CHANGE OF DIRECTION.												I/L8 A,B&C/L9
	AS APPROVED					SCH 40 PVC LATERAL LINE - 12" MIN. COVER; SIZE PER PLAN - 3/4" MINIMUM SIZE												I/L8
	AS APPROVED					PVC PIPE SCH. 40 SLEEVE. SLEEVE SIZE TO BE TWICE THE DIAMETER OF PIPE CARRIED WITHIN. WIRE SLEEVE TO BE 1" SIZE. INSTALL ANYWHERE PIPES AND WIRE OCCUR BELOW OR THROUGH PAVING AND HARDSCAPE ITEMS.												J/L8
NO SYMBOL	PAIGE					(#P7354D) HUNTER IRRIGATION TWO WIRE JACKETED SOLID COPPER DECODER CABLE, 2 x 14 AWG. ROUTE WITH MAINLINE AND INSTALL DECODER CABLE WITHIN 1" SCH 40 PVC CONDUIT, THROUGHOUT PROJECT. WHERE RCV'S ARE INSTALLED AT DISTANCES GREATER THAN 200' APART, A PULLBOX SHALL BE INSTALLED ALONG THE 2 WIRE DECODER CABLE PATH SO THAT WIRE PULLS ARE NO MORE THAN EVERY 200 FEET IN LENGTH.												I&J/L8
	PAIGE					8-FT COPPER CLAD 5/8" Ø GROUNDING ROD WITH CADWELD CONNECTION / 4" X 96" COPPER GROUNDING PLATE INSTALL GROUNDING ROD A MINIMUM OF 12' DISTANCE FROM CONTROLLER CABINET LOCATION INSTALL GROUNDING ROD A MINIMUM OF 8' DISTANCE FROM 2-WIRE CABLE PATH AND SPHERE OF INFLUENCE												D/L9
	APPLIED ENGINEERING					(MODEL#1015 1G2G VALVE BOX) ELECTRICAL PULLBOX FOR 2-WIRE CABLE. STANDARD RECTANGULAR VALVE BOX WITH LOCKING LID. 200' TO BE MAXIMUM DISTANCE BETWEEN VALVE BOXES												E/L9
NO SYMBOL	3M					DBRY-6 WIRE CONNECTORS- INSTALL PER MANUFACTURER'S RECOMMENDATIONS												F/L9
NO SYMBOL	APPLIED ENGINEERING					VALVE BOX WITH DROP IN STYLE LOCKING LIDS STANDARD RECTANGULAR SERIES 1015 1G2G VALVE BOX FOR RCVS 9" ROUND SERIES 910L 1G2G VALVE BOX FOR NON-FLANGED GATE VALVES LABEL VALVE BOX LIDS WITH ALL-SPEC STENCIL PLATES SECURED TO VALVE BOX LIDS												G&H/L9
NO SYMBOL	HUNTER					(MODEL#PLD-AVR) 1/2" AIR/VACUUM RELIEF VALVE. INSTALL AT HIGH POINT OF TREE IRRIGATION SYSTEM												I/L9
NO SYMBOL	HUNTER					(MODEL#ECO-ID) DRIP SYSTEM OPERATION INDICATOR. INSTALL OFF OF LATERAL LINE IMMEDIATELY DOWN STREAM OF CONTROL VALVE												J/L9
NO SYMBOL	HUNTER					(MODEL#AFV-B) AUTOMATIC FLUSH VALVE WITH 17MM BARB CONNECTION.												K/L9



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KINDERGARTEN
SITEWORK - PH II

FOR:
GREENFIELD UNION
ELEMENTARY SCHOOL
DISTRICT

PLANZ ELEMENTARY SCHOOL
2400 PLANZ RD
BAKERSFIELD , CA 93304

MARK	DATE	DESCRIPTION

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JR
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MER
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SHEET TITLE

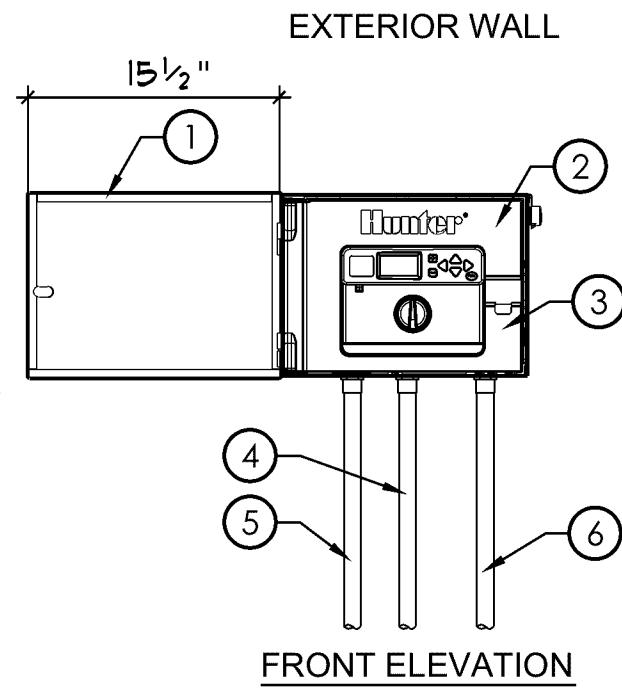
IRRIGATION LEGEND,
NOTES AND
CALCULATIONS

SHEET IDENTIFICATION NUMBER

L7

SHEETS IN SET

- 1 15 1/2" MINIMUM CLEARANCE FOR DOOR OPENING
- 2 CONTROLLER AS SPECIFIED ON IRRIGATION LEGEND.
- 3 DUAL 48M DECODER OUTPUT MODULE ADDED TO CONTROLLER
- 4 ELECTRICAL CONDUIT, SIZE AND TYPE PER LOCAL CODE.
- 5 1/2" POWER SUPPLY CONDUIT J-BOX INSIDE CONTROLLER CONNECT PER LOCAL CODE
- 6 CONDUIT FOR GROUND WIRE, GROUNDING HARDWARE TO BE LOCATED MINIMUM OF 8' FROM CONTROLLER AT A RIGHT ANGEL TO THE TWO WIRE PATH

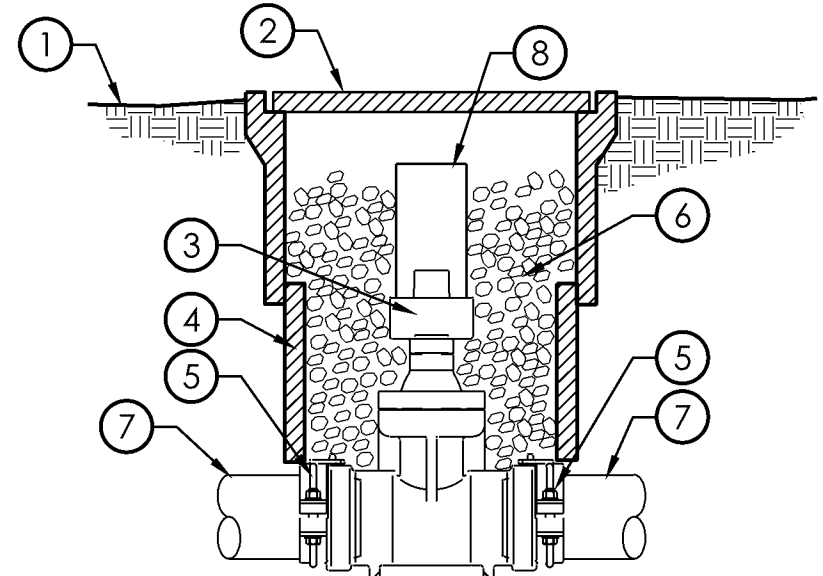


NOTES:
CONTROLLER SHALL BE HARD- WIRED TO GROUNDED 110 or 220 VAC ELECTRICAL SOURCE.

A I-CORE DECODER WALL MOUNT IRRIGATION CONTROLLER

SCALE: NTS

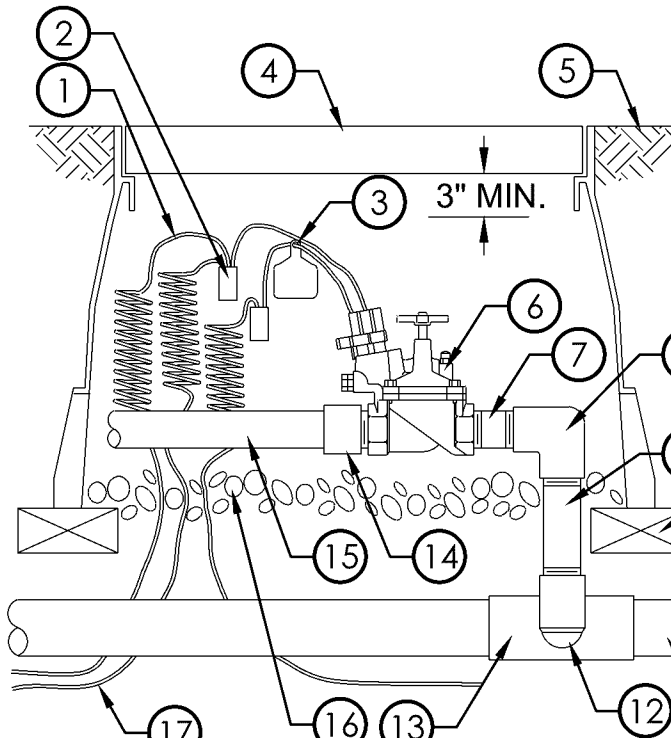
- 1 FINISH GRADE
- 2 ROUND PLASTIC VALVE BOX WITH LOCKING LID- HEAT BRAND 'GV' ONTO LID
- 3 GATE VALVE- MANUFACTURER AND MODEL AS INDICATED IN LEGEND, OR APPROVED EQUAL
- 4 EXTENSION LENGTH- AS REQUIRED
- 5 CAST JOINT RESTRAINT CLAMPS
- 6 6" MIN. LAYER OF PEA GRAVEL (2 CU.FT.)
- 7 IRRIGATION MAINLINE PER LEGEND
- 8 IPS PVC SLEEVE- LENGTH AS REQUIRED



D PUSH ON GATE VALVE

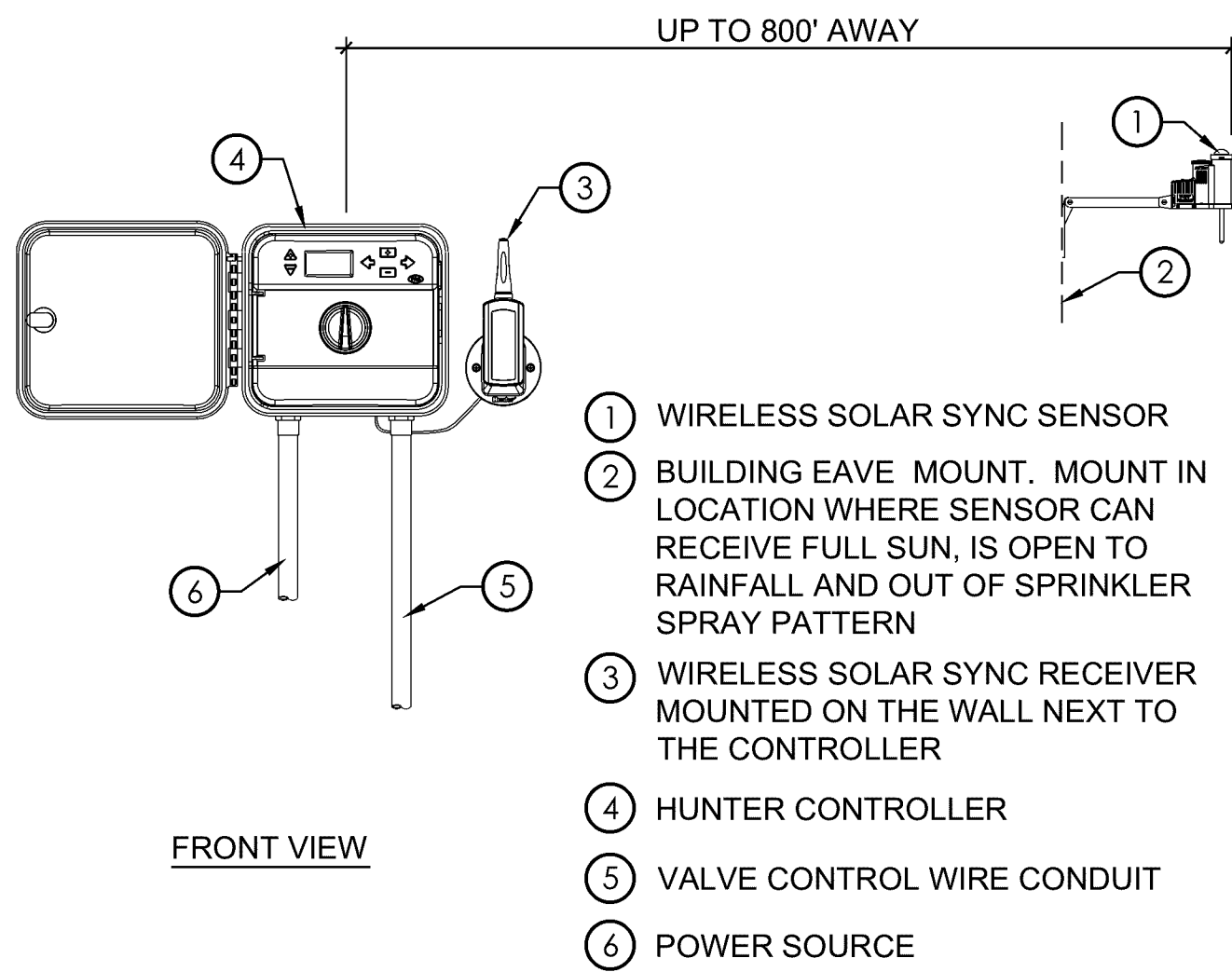
SCALE: NTS

- 1 30" LINEAR LENGTH OF WIRE COILED
- 2 APPROVED WATERPROOF WIRE CONNECTORS, TYP.
- 3 VALVE IDENTIFICATION TAG
- 4 VALVE BOX WITH LOCKING LID, HEAT BRAND WITH STATION NUMBER ON LID.
- 5 FINISH GRADE/TOP OF MULCH
- 6 REMOTE CONTROL VALVE PER IRRIGATION LEGEND
- 7 PVC SCH 80 NIPPLE (CLOSE)
- 8 PVC SCH 40 ELL
- 9 PVC SCH 80 NIPPLE- (LENGTH AS REQUIRED)
- 10 BRICK (1 OF 4)
- 11 PVC MAINLINE PIPE
- 12 SCH 80 NIPPLE (2" LENGTH, HIDDEN) AND SCH 40 ELL
- 13 PVC SCH 40 TEE OR ELL
- 14 PVC SCH 40 MALE ADAPTER
- 15 PVC LATERAL PIPE
- 16 3" MIN. DEPTH OF 3/4" WASHED GRAVEL
- 17 CONTROL WIRES



F REMOTE CONTROL VALVE

SCALE: NTS

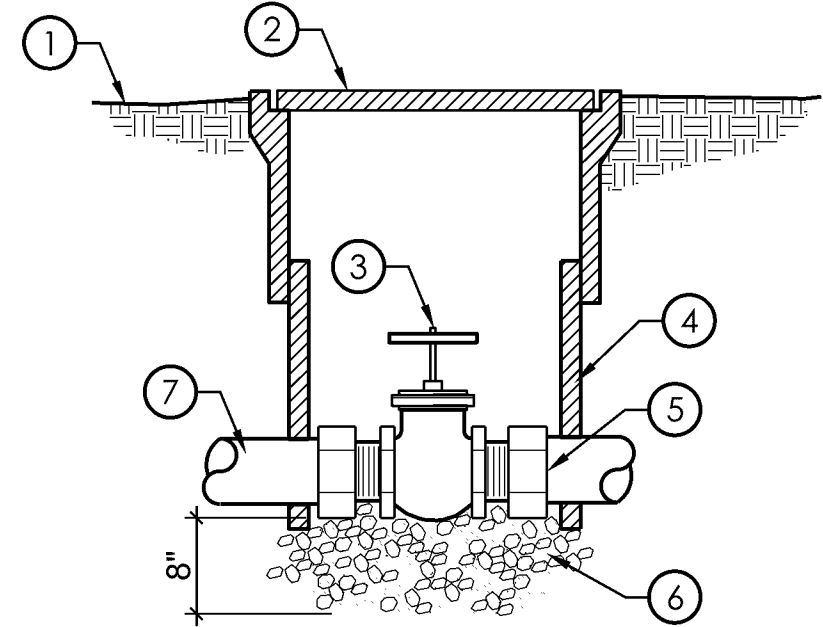


FRONT VIEW

B WIRELESS SOLAR SYNC SENSOR

SCALE: NTS

- 1 FINISH GRADE
- 2 ROUND VALVE BOX. HEAT BRAND 'GV' ON LID.
- 3 GATE VALVE- MANUFACTURER AND MODEL AS INDICATED IN LEGEND, OR APPROVED EQUAL
- 4 EXTENSION LENGTH- AS REQUIRED
- 5 PVC MALE ADAPTER
- 6 3/4" WASHED CRUSHED AGGREGATE BASE OR PEA GRAVEL
- 7 IRRIGATION MAINLINE



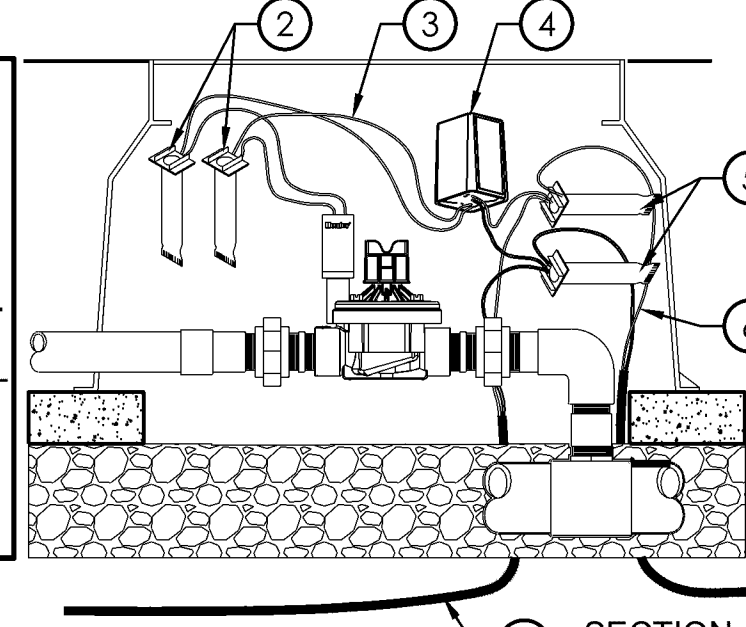
ELEVATION

E GATE VALVE

SCALE: NTS

- 1 JACKETED ID WIRE PATH TO NEXT DECODER
- 2 TWO (2) DBY/R-6 WIRE CONNECTORS
- 3 TWO BLACK WIRES TO VALVE SOLENOID/UP TO 100 FT
- 4 MODEL DUAL-1 DECODER ONE PER CONTROL VALVE
- 5 TWO (2) DBY/R-6 WIRE CONNECTORS
- 6 JACKETED ID WIRE PATH FROM CONTROLLER ALLOW 5 FEET SLACK PER DECODER/ 1/2 ON EITHER SIDE OF DECODER

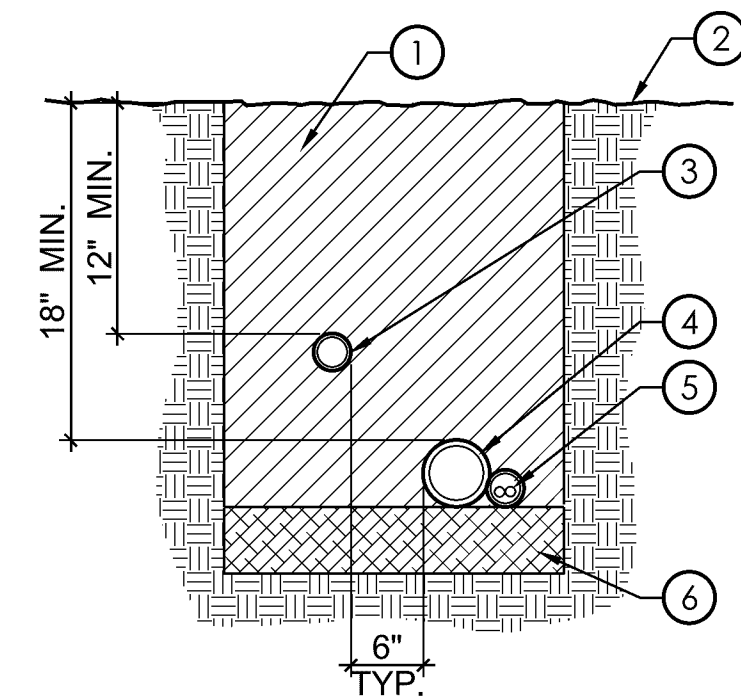
NOTES:
• ALL TWO WIRE CABLE TO BE INSTALLED WITHIN 1" PVC CONDUIT BETWEEN RCV VALVE BOXES, PULL BOXES AND CONTROLLER LOCATION.
• ALL DUAL-1 DECODERS SHALL HAVE THE FOLLOWING ADDRESS AND CORRESPONDING COLOR ADDRESS 1 = Black



SECTION

G DUAL-1 DECODER

SCALE: NTS



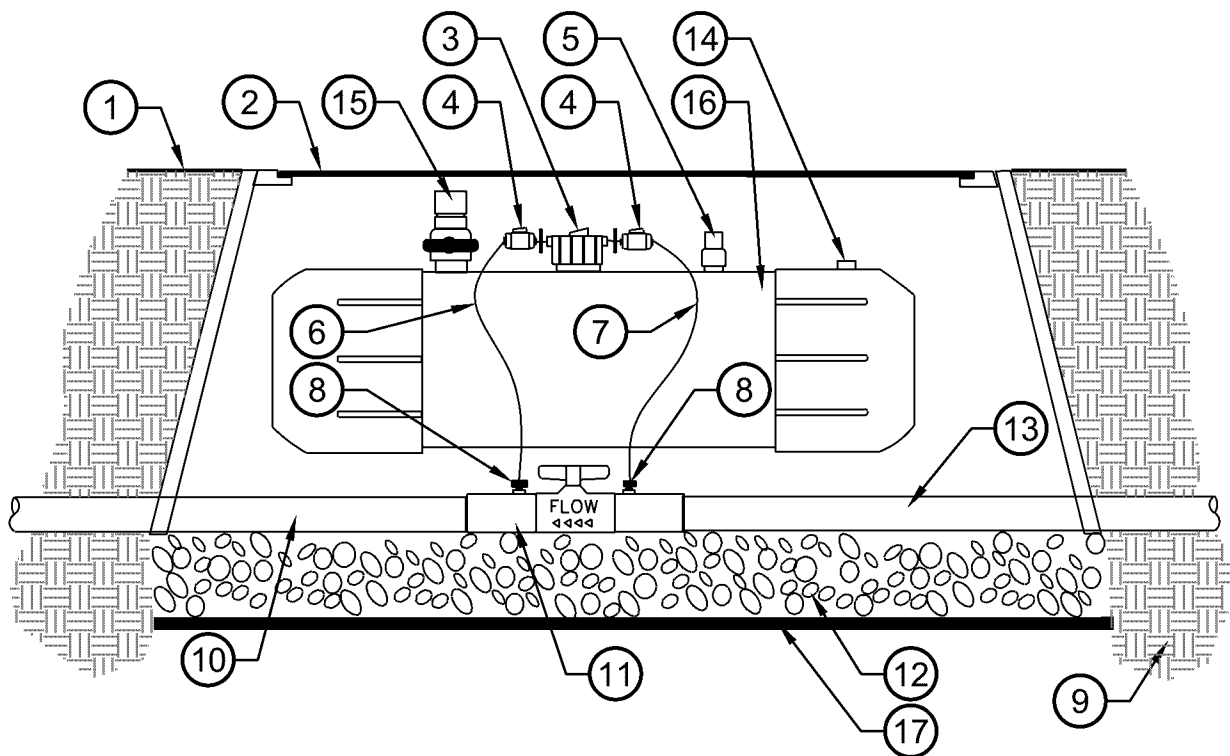
- 1 CLEAN BACKFILL- 90% COMPACTION REQUIRED
- 2 FINISH GRADE
- 3 NON-PRESSURE LATERAL LINE SNAKE PIPE IN TRENCH
- 4 PRESSURE SUPPLY LINE SNAKE PIPE IN TRENCH
- 5 TWO WIRE CABLE INSTALLED IN 1" SCH 40 PVC CONDUIT, THROUGHOUT PROJECT. INSTALL ADJACENT TO PRESSURE SUPPLY LINE
- 6 PROVIDE 2" MIN. OF CLEAN BACKFILL

NOTES:
1. PIGTAIL AND LOOP CONTROL WIRE AT ALL 90 DEGREE CHANGES IN DIRECTION.
2. PROVIDE A MINIMUM 10 FEET SEPERATION BETWEEN POTABLE AND RECLAIMED MAINLINE PIPING.
3. 24" MINIMUM COVER ON 3" MAINLINE AND LARGER.

I TYPICAL TRENCHING

SCALE: NTS

NOTE:
INSTALL FERTIGATION UNIT IN ONE VALVE BOX AND THE SADDLE CONNECTION TO THE MAINLINE IN ANOTHER VALVE BOX.



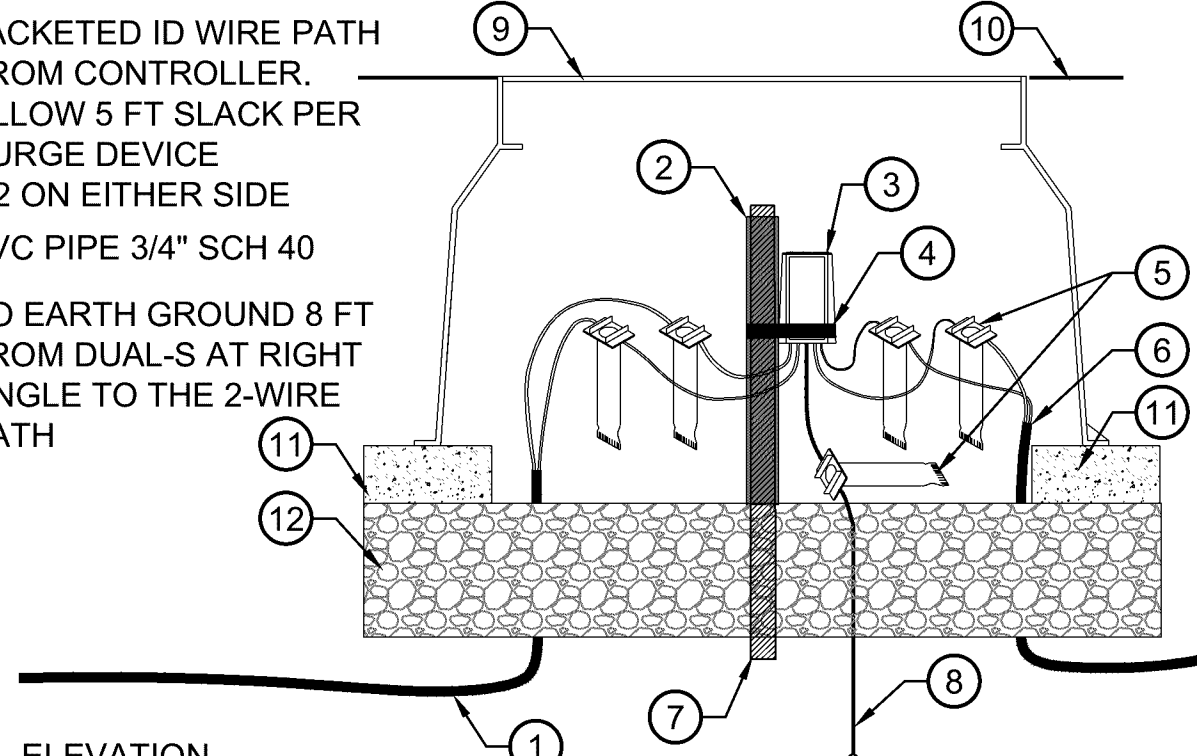
C 25 GALLON FERTILIZATION UNIT

SCALE: NTS

NOTE:
ITEMS 3, 4, 5, 6, 7 AND 8 ARE INCLUDED WITH THE EZ-FLO SYSTEM. ITEM 11 IS PURCHASED SEPARATELY.

- 1 FINISH GRADE
- 2 PLASTIC 36" L x 24" W x 24" H VALVE BOX & LOCKABLE COVER HEAT BRAND 'F' ON LID
- 3 PROPORTIONING CAP WITH FEED ADJUSTMENT KNOB
- 4 EZ-FLO SHUT OFF VALVES
- 5 AIR VENT VALVE
- 6 FERTILIZER OUT - CONNECT CLEAR TUBE TO GREEN CONNECTIONS ON PROPORTIONING CAP AND COUPLING
- 7 WATER IN - CONNECT BLACK TUBE TO BLUE CONNECTIONS ON PROPORTIONING CAP AND COUPLING
- 8 1/4" TUBING CLAMP - BOTH THE GREEN AND BLUE COUPLING TUBING CONNECTIONS
- 9 APPROVED BACKFILL
- 10 PVC MAIN LINE TO VALVE MANIFOLD
- 11 ATTACH 1/2" TUBING TO SADDLE KITS AND INSTALL LINE SIZE BUTTERFLY VALVE BETWEEN TWO SADDLE KITS.
- 12 6" MIN. LAYER PEA GRAVEL (3 CU. FT.)
- 13 PVC MAIN LINE FROM BACK-FLOW PREVENTER
- 14 PRESSURE RELIEF VALVE
- 15 FILL VALVE (DRAIN VALVE INCLUDED BUT NOT SHOWN)
- 16 EZ-FLO MODEL EZ025-HC FERTILIZING SYSTEM 36" L x 19" W x 25" H
- 17 LANDSCAPE FABRIC

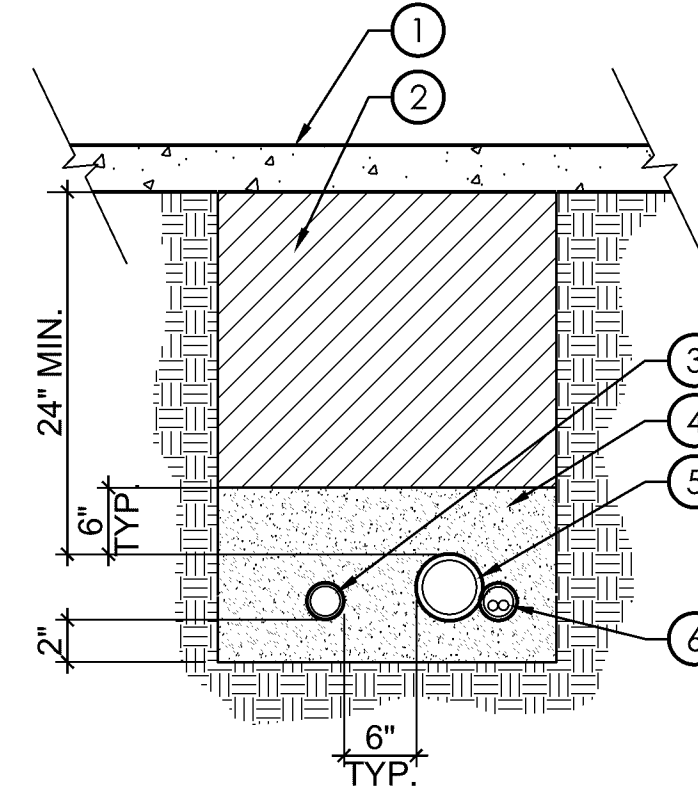
- 1 JACKETED ID WIRE PATH TO NEXT DECODER
- 2 PVC PIPE 1" SCH 40
- 3 MODEL DUAL-S SURGE PROTECTION MODULE
- 4 ELECTRICAL CABLE TIE - 12"
- 5 DBRY-6 (5)
- 6 JACKETED ID WIRE PATH FROM CONTROLLER. ALLOW 5 FT SLACK PER SURGE DEVICE 1/2 ON EITHER SIDE
- 7 PVC PIPE 3/4" SCH 40
- 8 TO EARTH GROUND 8 FT FROM DUAL-S AT RIGHT ANGLE TO THE 2-WIRE PATH
- 9 PLASTIC VALVE BOX WITH LOCKING COVER. HEAT BRAND 'SD' INTO THE LID
- 10 FINISH GRADE
- 11 4 BRICK SUPPORTS
- 12 3/4" WASHED GRAVEL, 3" MIN. DEPTH



ELEVATION

H DUAL-S SURGE DEVICE

SCALE: NTS

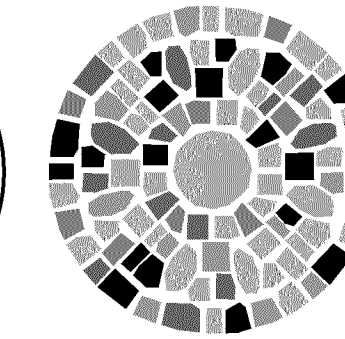


NOTES:
1. ALL SLEEVES TO BE SCH 40 PVC.
2. EXTEND ALL SLEEVES 12" BEYOND EDGE OF HARDSCAPING AT BOTH ENDS.

- 1 HARDSCAPE/PAVING
- 2 CLEAN BACKFILL- 90% COMPACTION REQUIRED
- 3 LATERAL LINE SLEEVE- SIZED TO TWICE DIA. OF NON-PRESSURE LATERAL LINE
- 4 SAND
- 5 SUPPLY LINE SLEEVE- SIZED TO TWICE DIA. OF PRESSURE SUPPLY LINE
- 6 TWO WIRE CABLE- INSTALL WITHIN 1" SCH 40 PVC, THROUGHOUT. INSTALL ADJACENT TO PRESSURE SUPPLY LINE

J TYPICAL SLEEVING

SCALE: NTS



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KINDERGARTEN SITEWORK - PH II

FOR:
GREENFIELD UNION ELEMENTARY SCHOOL DISTRICT

PLANZ ELEMENTARY SCHOOL
2400 PLANZ RD
BAKERSFIELD , CA 93304

MARK	DATE	DESCRIPTION

JOB NUMBER:
2036
CAD DRAWING FILE:
2036.01 Planz Kindergarten Complex_CD23.pln
DRAWN BY:
JR
CHECKED BY:
MER
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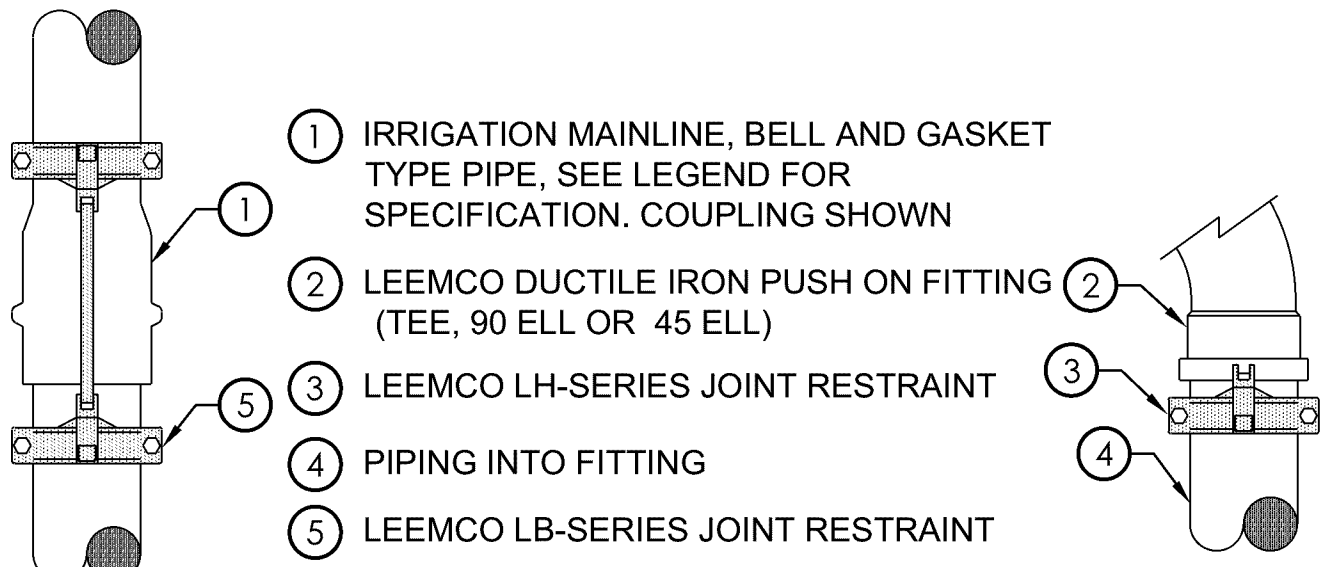
SHEET IDENTIFICATION NUMBER

L8

SHEETS IN SET

NOTES:

USE JOINT RESTRAINTS ON ALL BELL AND GASKET MAINLINE PIPE
USE THRUST BLOCKS ON ALL SOLVENT WELD MAINLINE PIPE
USE LB SERIES RESTRAINTS FOR BELL AND GASKET JOINTS
USE LH SERIES RESTRAINTS FOR PVC PIPE TO LEEMCO FITTINGS INCLUDING 45 ELLS, 90 ELLS, MAINLINE TEES, AND VALVE STUB OUTS
USE TWO LH SERIES RESTRAINTS AND TWO TIE-BARS FOR PUSH ON GATE VALVES- SEE LEEMCO RECOMMENDATIONS
USE TWO LMJ SERIES RESTRAINTS (CONSISTING OF ONE LH SERIES RESTRAINT AND TWO MJ-LK LINKS) FOR FLANGED GATE VALVES
USE TWO LMJ SERIES RESTRAINTS (CONSISTING OF ONE LH SERIES RESTRAINT AND TWO MJ-LK LINKS) FOR FLANGED BUTTERFLY VALVES
SIZE OF RESTRAINT TO BE AS PER PIPE AND FITTING USED

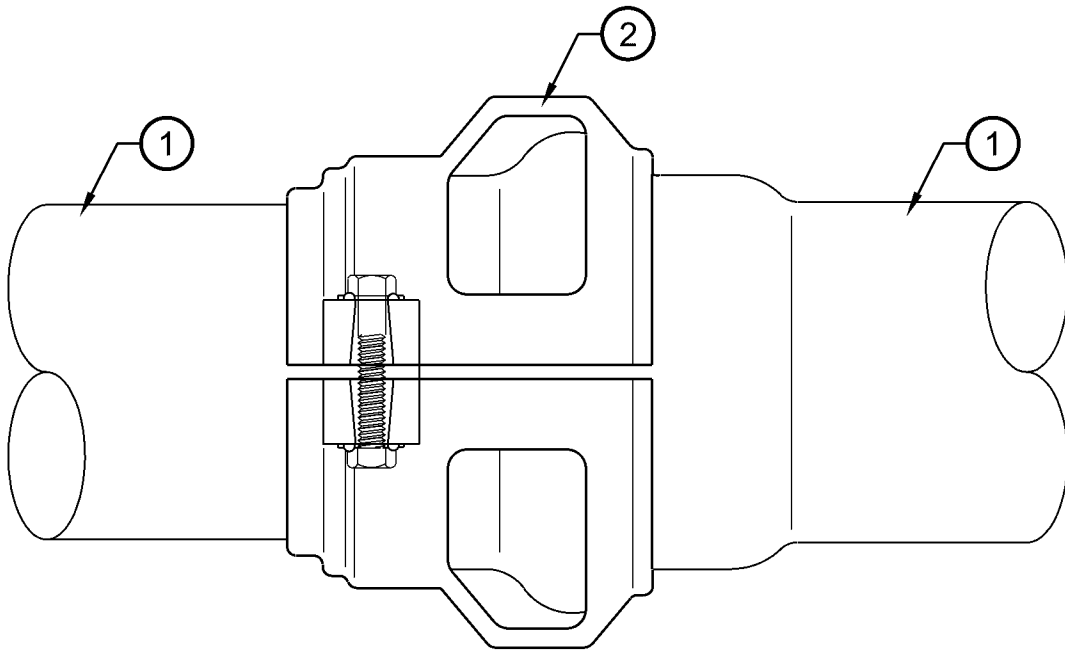


PIPE RESTRAINTS

SCALE: NTS

REFER TO DETAIL N, THIS SHEET FOR ADDITIONAL INFORMATION REGARDING INSTALLATION OF JOINT RESTRAINTS.

- 1 CLASS 200 BELL AND GASKET PVC PIPING PER LEGEND
2 LEEMCO LPP-SERIES JOINT RESTRAINT



BELL AND GASKET PIPE JOINT RESTRAINT

SCALE: NTS

DISTANCE CHART

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

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

PIPE SIZE	BENDS				REDUCERS				DEAD END	
	11°	22°	45°	90°	1 STEP	2 STEP	3 STEP	BLIND	SERV. B.	
2"	1'	1'	2'	6'	-	-	-	19'	6'	
2.5"	1'	2'	4'	9'	4'	-	-	23'	10'	
3"	2'	3'	5'	11'	8'	10'	-	30'	15'	
4"	2'	4'	9'	20'	14'	20'	31'	45'	25'	
6"	3'	6'	13'	29'	30'	40'	53'	63'	40'	
8"	4'	8'	15'	38'	33'	55'	63'	83'	70'	
10"	5'	9'	19'	45'	31'	56'	75'	100'	90'	
12"	6'	10'	21'	53'	34'	58'	79'	118'	110'	

INSTALLATION CHART

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

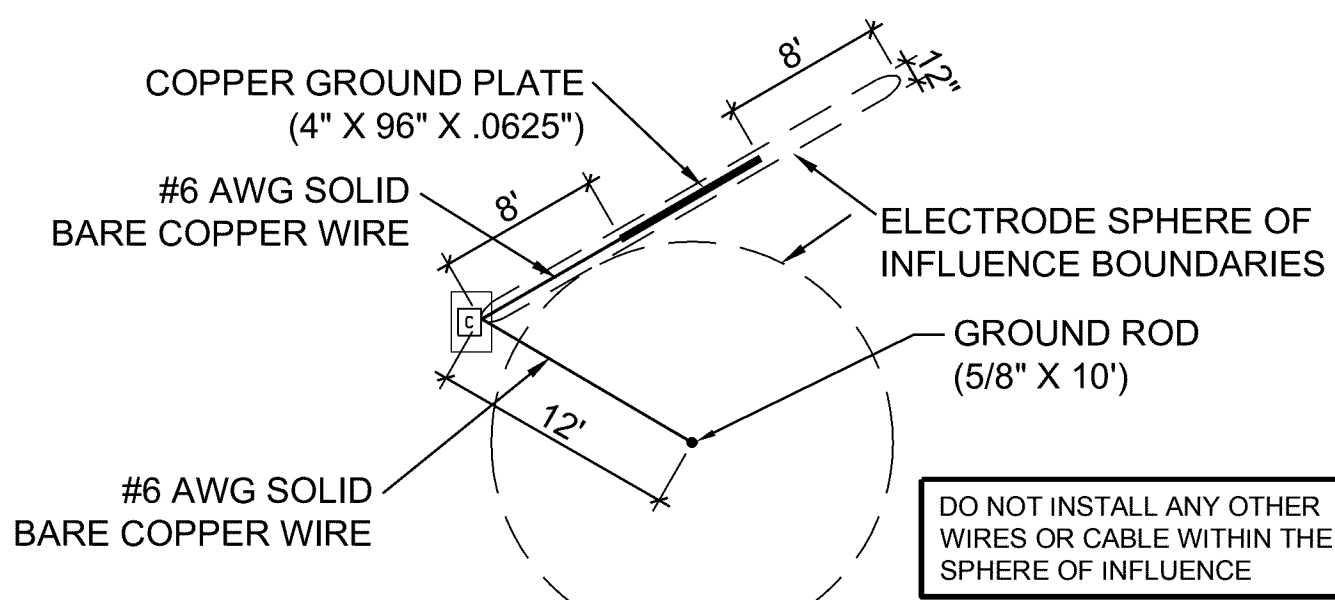
AS AN EXAMPLE, IF YOU HAVE A 3" PIPE, YOU WILL NEED 2 BOLTS THAT ARE 3/8 X 2.5" AND TIGHTEN THEM WITH A TORQUE WRENCH TO 20 FT-LBS.

PIPE SIZE	NO. BOLTS	BOLT SIZE	TORQUE FT-LBS.
2"	2	3/8" x 2.5"	20
2.5"	2	3/8" x 2.5"	20
3"	2	3/8" x 2.5"	20
4"	2	1/2" x 3"	48
6"	2	1/2" x 3.5"	48
8"	4	1/2" x 4"	48
10"	4	5/8" x 5.5"	96
12"	4	5/8" x 5.5"	96

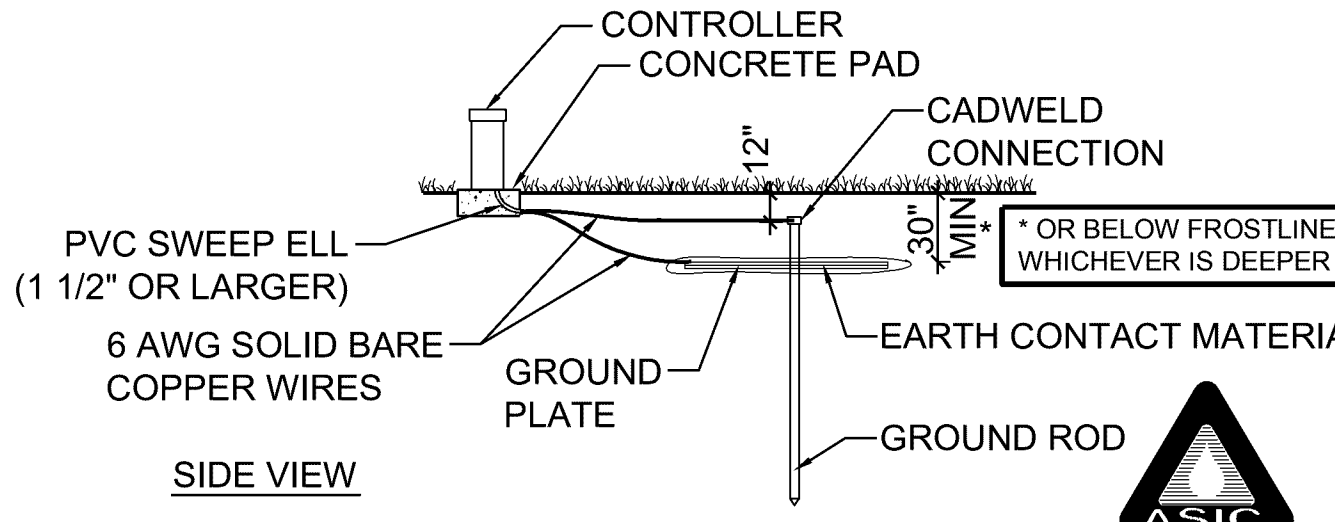
CONTACT TONY GARNER @ (208) 631-7787, THE LEEMCO REPRESENTATIVE, FOR ALL QUESTIONS CONCERNING LEEMCO PRODUCTS. COORDINATE AN INSTALLATION CLINIC WITH TONY GARNER PRIOR TO INSTALLING THE MAINLINE.

JOINT RESTRAINT NOTES

SCALE: NTS



PLAN VIEW

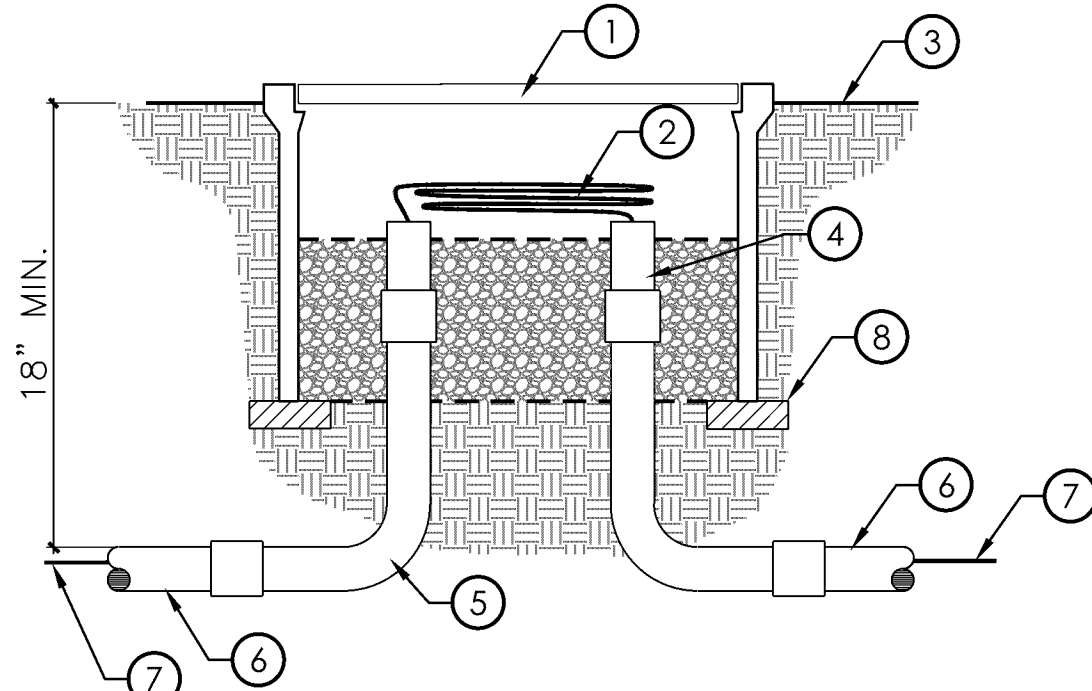


SIDE VIEW

GROUNDING ROD

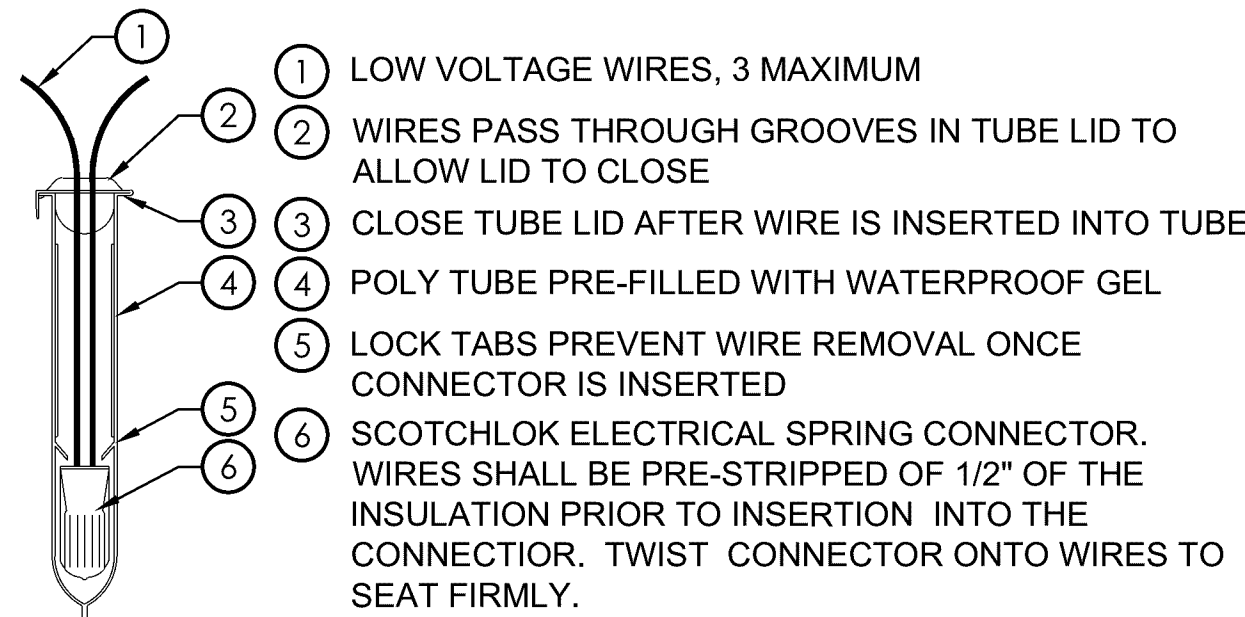
SCALE: NTS

- 1 STANDARD RETANGULAR VALVE BOX EVERY 200' MAXIMUM
2 36" LOOP OF 2-WIRE CABLE IN PULLBOX
3 FINISH GRADE
4 ENDS OF CONDUIT SEALED WITH WATERPROOF SILICONE (IF REQUIRED)
5 90 DEGREE SWEEP ELL (IF REQUIRED)
6 2" CONDUIT
7 2-WIRE CABLE PER LEGEND
8 BRICK (1 OF 4)



PULL BOX

SCALE: NTS



SCOTCHLOK CONNECTOR AND WIRES INSERTED INTO TUBE UNTIL THE CONNECTOR PASSES LOCK TABS

NOTE:
WIRE CONNECTOR SHALL BE A 3M DBY-6 DIRECT BURY SPLICE KIT.

KIT SHALL INCLUDE A SCOTCHLOK Y SPRING CONNECTOR, A POLYPROPYLENE TUBE AND A WATERPROOF SEALING GEL. TUBE SHALL BE SUPPLIED PREFILLED WITH GEL.

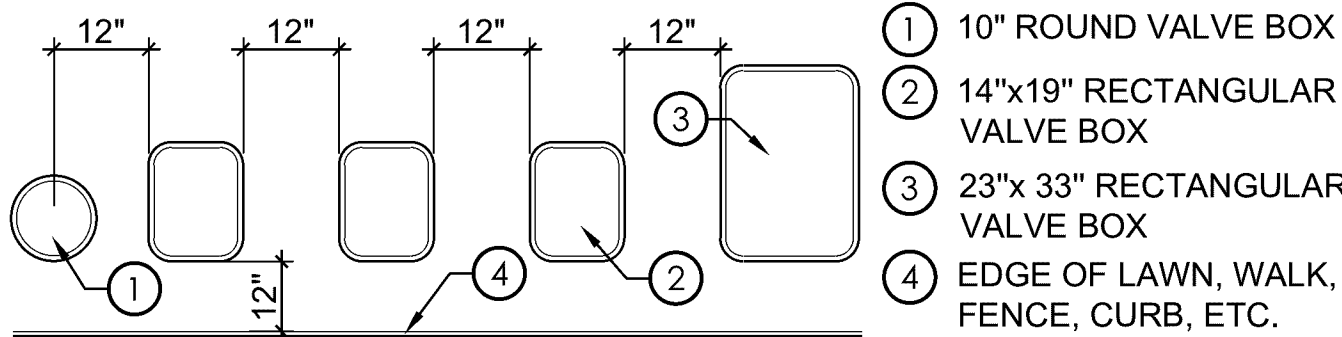
DIRECT BURY SPLICE KIT SHALL BE USED TO ELECTRICALLY CONNECT (2 - 3) #14 OR (2) #12 PRE-STRIPPED COPPER WIRES. LARGER WIRES OR GREATER QUANTITIES OF WIRES SHALL REQUIRE A LARGER APPROVED WIRE CONNECTION.

WATERPROOF WIRE CONNECTION

SCALE: NTS

NOTES:

1. CENTER VALVE BOX OVER REMOTE CONTROL VALVE TO FACILITATE SERVICING THE VALVE.
2. SET BOXES 1" ABOVE FINISH GRADE OR MULCH COVER IN GROUNDCOVER/ SHRUB AREA AND FLUSH WITH FINISH GRADE IN TURF AREA.
3. SET RVC AND VALVE BOX ASSEMBLY IN GROUNDCOVER/SHRUB AREA WHERE POSSIBLE. INSTALL IN LAWN ONLY IF GROUNDCOVER DOES NOT EXIST ADJACENT TO LAWN.
4. SET BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE.
5. AVOID HEAVILY COMPACTING SOIL AROUND VALVE BOXES TO PREVENT COLLAPSE AND DEFORMATION OF VALVE BOX SIDES.
6. IDENTIFY VALVE BOX WITH CONTROLLER LETTER AND VALVE NUMBER USING 1 1/2" - 2" LETTERING.

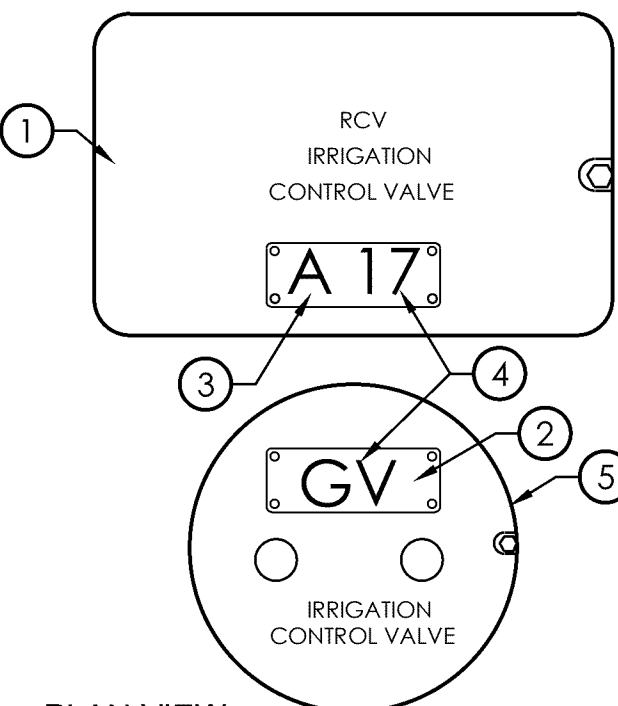


PLAN VIEW

VALVE BOX INSTALLATION

SCALE: NTS

- 1 RECTANGULAR VALVE BOX WITH LOCKABLE COVER
2 SMALL STENCIL BADGE WITH VALVE/EQUIPMENT IDENTIFIER. SECURE TO VALVE BOX WITH FOUR STAINLESS STEEL SCREWS. INSTALL AT MID POINT OF BOX LID.
3 CONTROLLER DESIGNATION- (IF MULTIPLE CONTROLLERS USED)
4 VALVE IDENTIFICATION
5 ROUND VALVE BOX WITH LOCKABLE COVER.



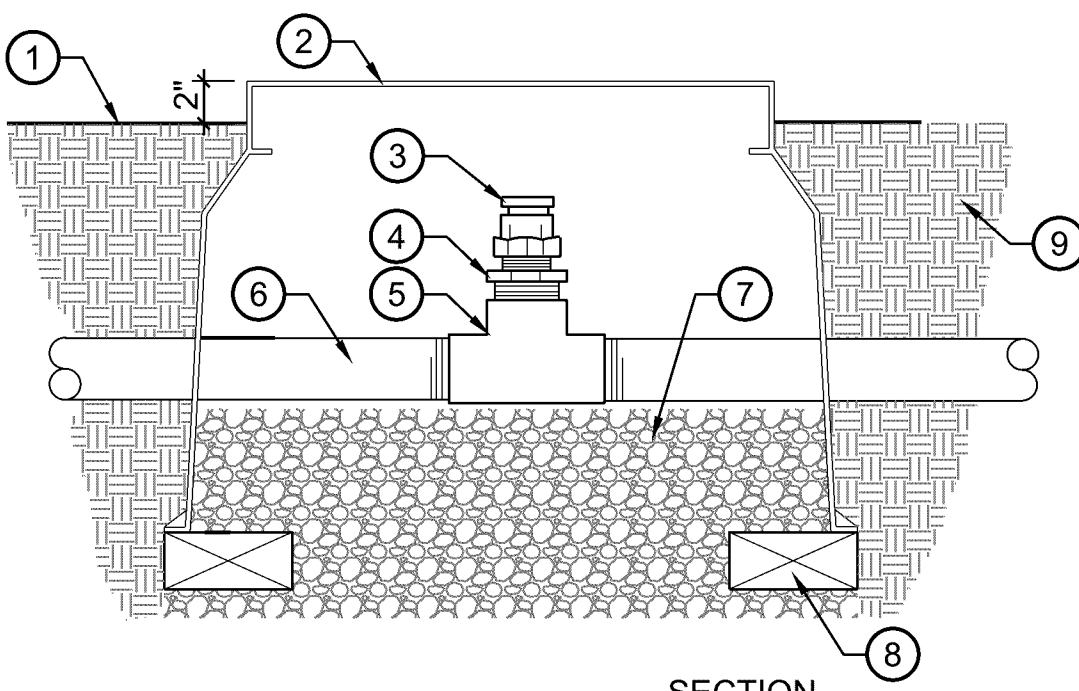
PLAN VIEW

VALVE BOX ID BADGE

SCALE: NTS

ALL-SPEC SMALL STENCIL PLATE TO BE STAINLESS STAIN AVAILABLE THROUGH O'CONNER SALES. CONTACT DAN SOUTHWICK AT (805) 220-3164

- 1 FINISH GRADE
2 10" ROUND PLASTIC VALVE BOX
3 AIR/VACUUM RELIEF VALVE- INSTALL AT HIGHEST POINT OF SYSTEM.
4 3/4" MPT x 1/2" FPT BUSHING
5 PVC TEE
6 PVC LATERAL LINE
7 3/4" GRAVEL SUMP
8 BRICK SUPPORT
9 NATIVE OR CERTIFIED COMPACTED GRADE

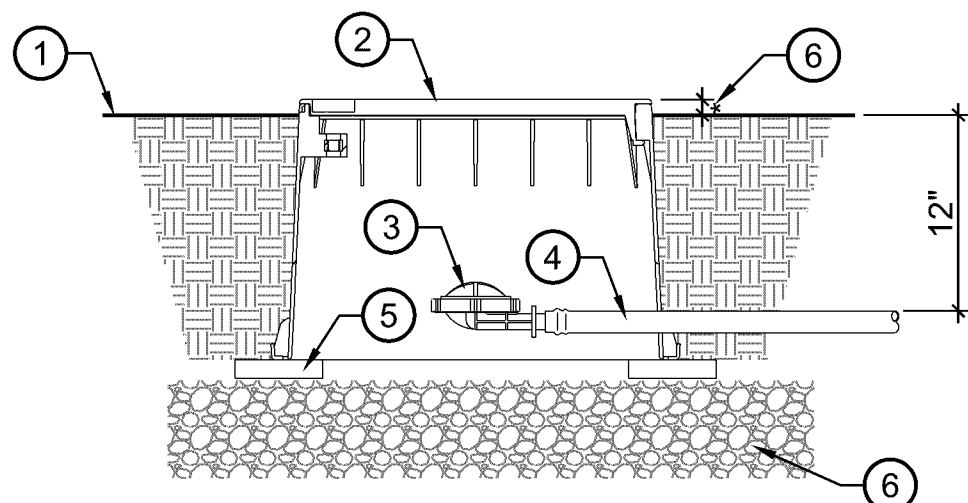


SECTION

AIR RELIEF VALVE INSTALLED ON DRIP TUBING

SCALE: NTS

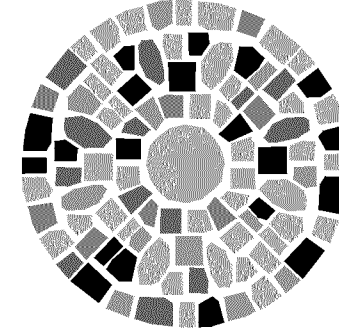
- 1 FINISH GRADE
2 10" ROUND PLASTIC VALVE BOX
3 AUTOMATIC FLUSH VALVE PER LEGEND
4 BLANK TUBING (PLD-BLNK) TO DRIPLINE ZONE
5 BRICK SUPPORTS (3 PER VALVE BOX)
6 3/4" GRAVEL BASE- 6" DEPTH
7 1" IN TURF AREAS



SECTION

AUTOMATIC FLUSH VALVE

SCALE: NTS



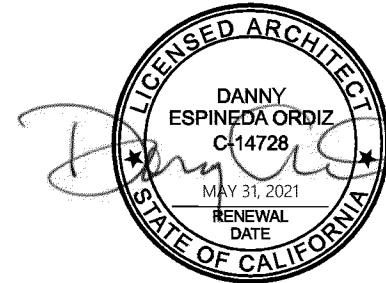
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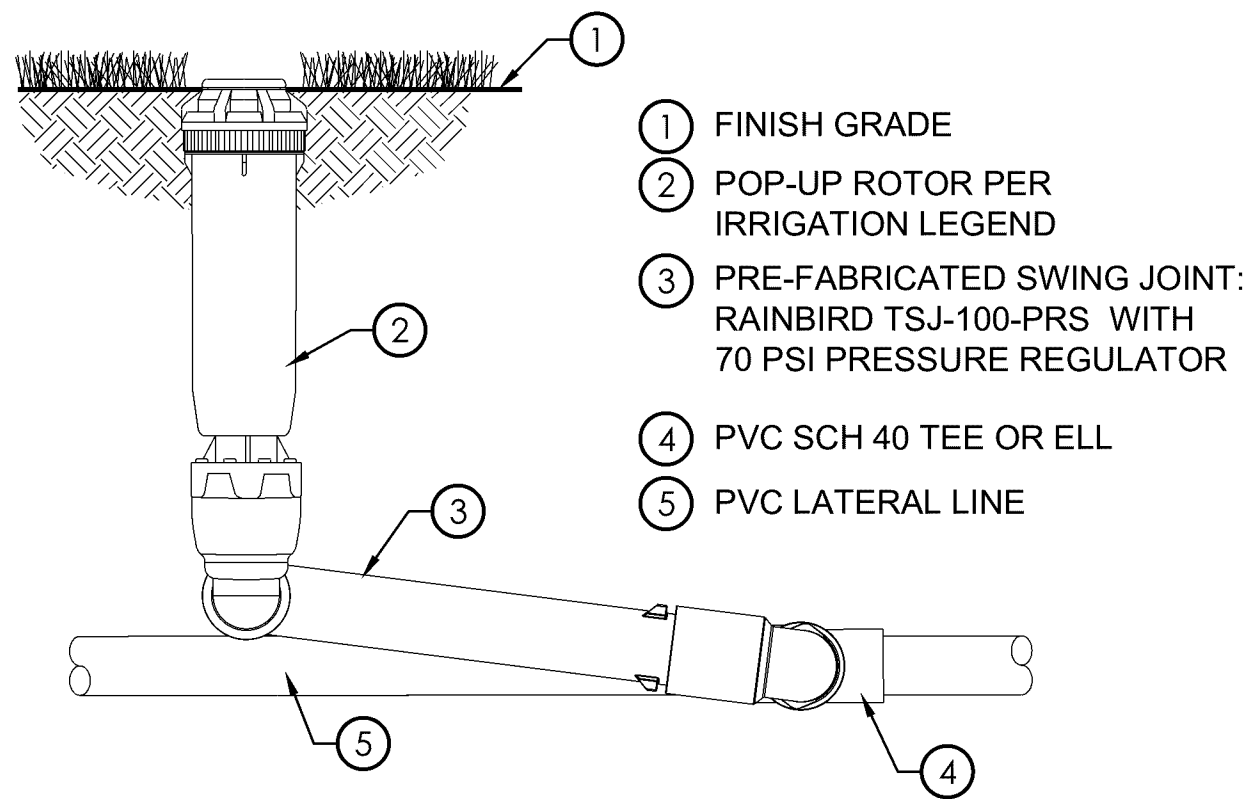
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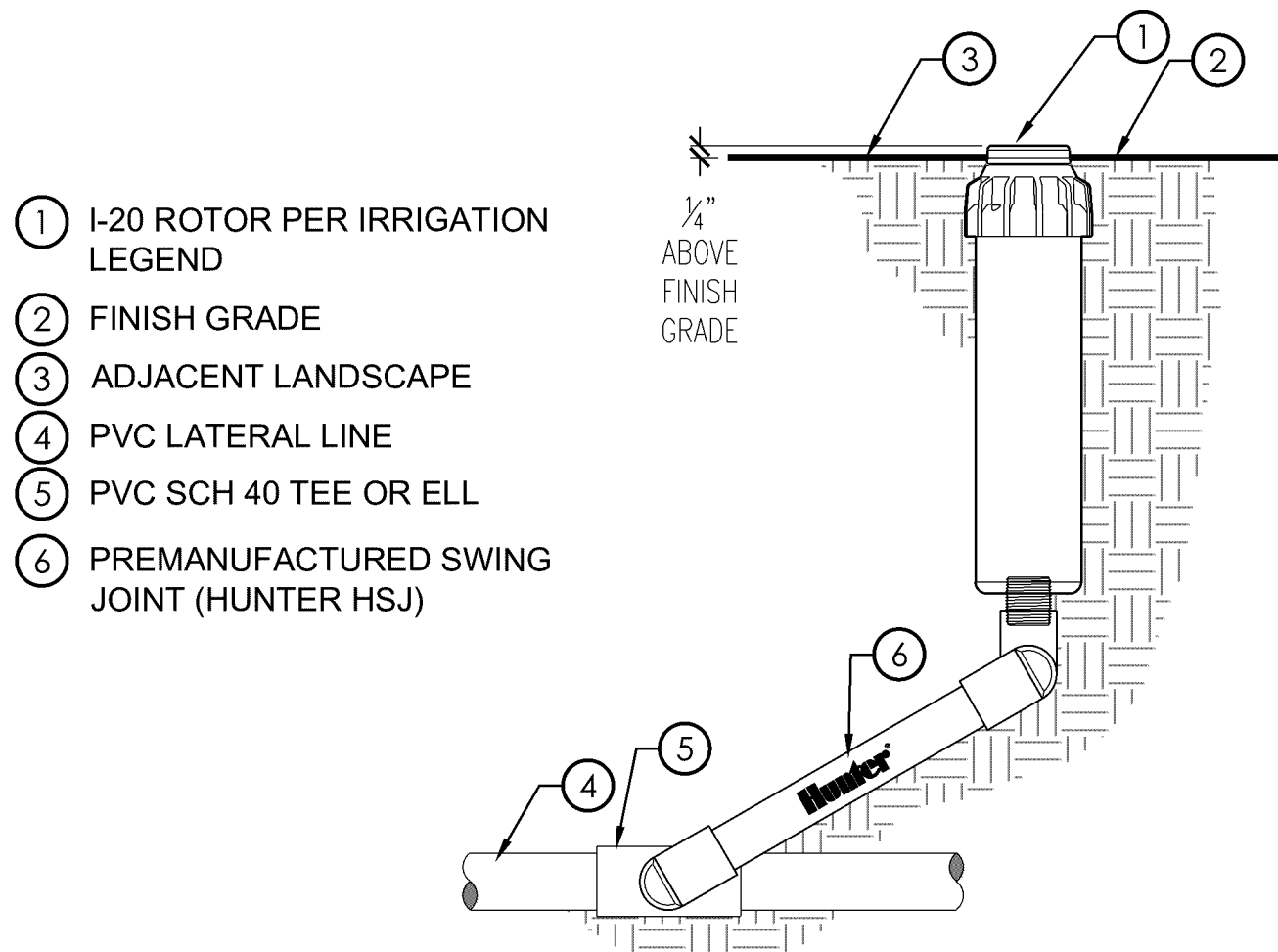
L9

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PLOT TIME: 9:59 AM
PLOT DATE: 10/10/2020
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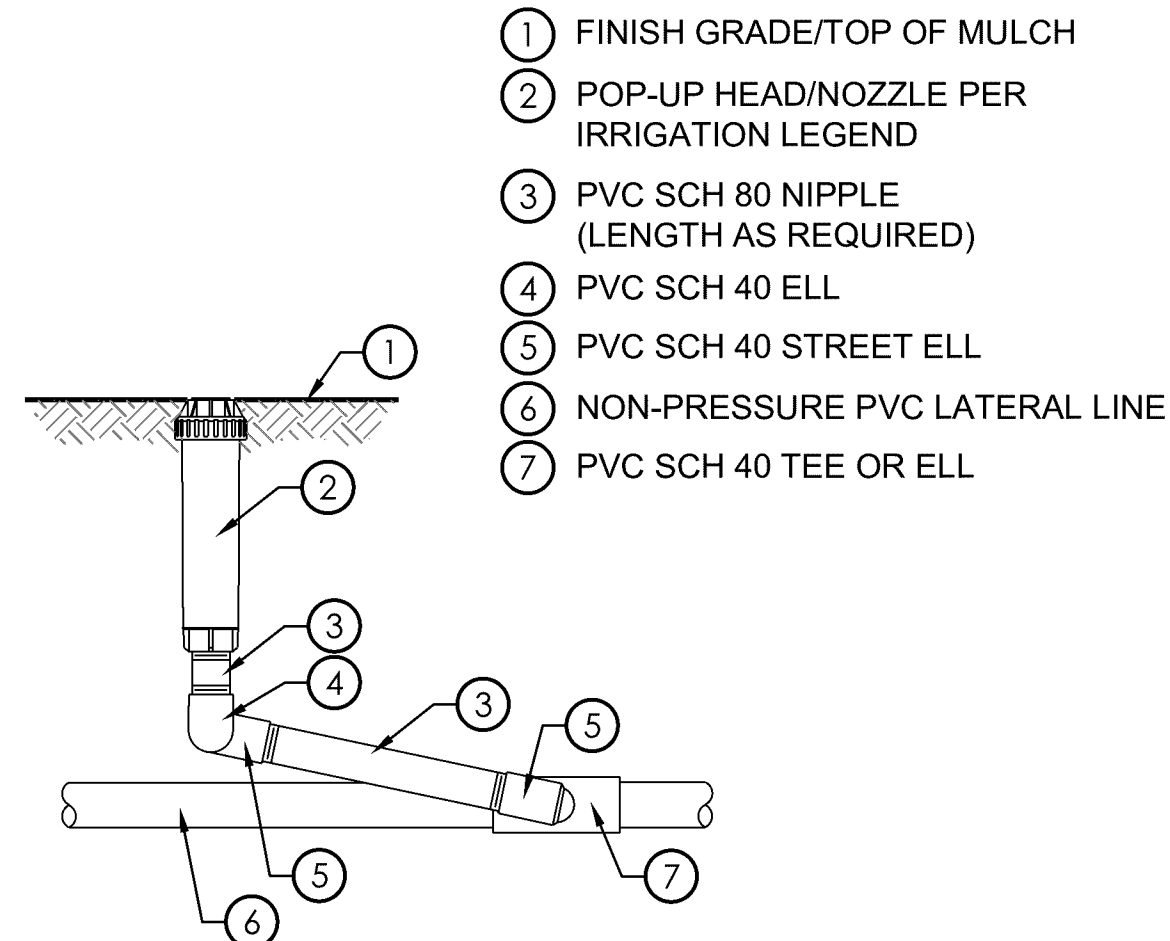


A TURF ROTOR ASSEMBLY
SCALE: NTS



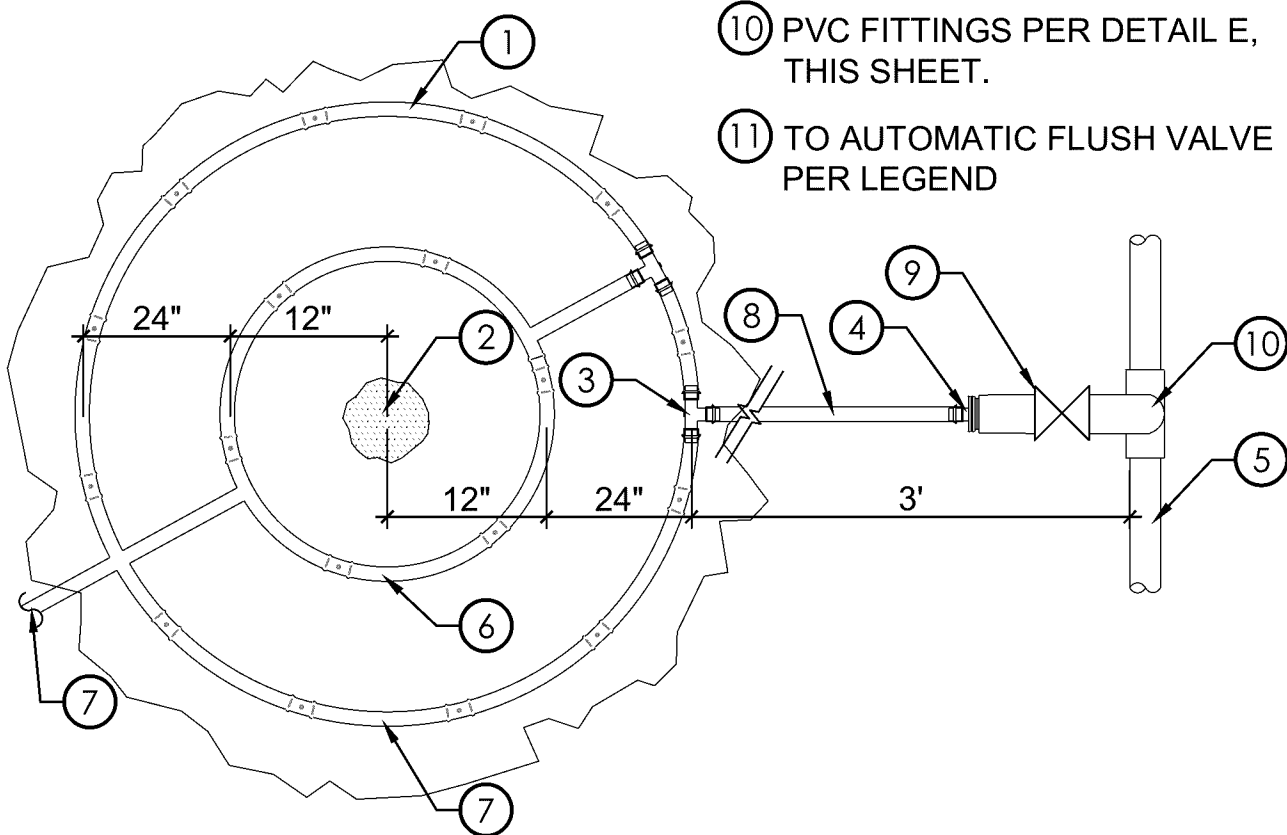
B I-20 TURF ROTOR ASSEMBLY
SCALE: NTS

NOTE:
LOCATE HEAD 2" FROM WALKS, CURBS, HARDSCAPING,
MOW STRIP, HEADERBOARD AND EDGE OF LAWN.



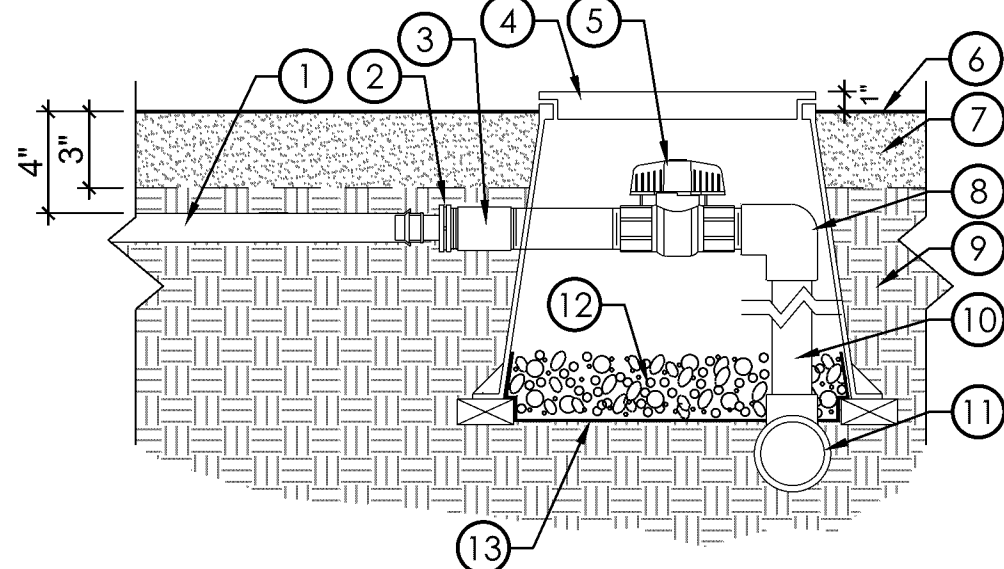
C POP-UP SPRAY HEAD
SCALE: NTS

- HUNTER DRIPLINE (HDL) AS SPECIFIED ON IRRIGATION LEGEND
- TREE TRUNK
- PLD FITTING TYP.
- PVC TO DRIP LINE TUBING CONNECTION (PLD FITTING) TYP.
- PVC LATERAL LINE
- INNER DRIPLINE TO BE ALONG THE EDGE OF THE ROOTBALL BALL.
- OUTER DRIPLINE RING
- BLANK DRIPLINE TO DRIP RINGS.
- 3/4" NIBCO #4660T PLASTIC BALL VALVE FOR TREES WITHIN TURF AREAS ONLY.
- PVC FITTINGS PER DETAIL E, THIS SHEET.
- TO AUTOMATIC FLUSH VALVE PER LEGEND



D TREE ROOTBALL DRIPPERLINE
SCALE: NTS

- HUNTER BLANK TUBING TO DRIPLINE RINGS AROUND TREE ROOTBALL.
- PLD -075 3/4" MPT X 17MM FITTING
- 3/4" PVC THREADED COUPLING
- 6" ROUND PLASTIC VALVE BOX, HEAT BRAND "BV" ONTO LID.
- 3/4" NIBCO #4660T PLASTIC BALL VALVE
- FINISH GRADE
- 3" MULCH LAYER
- PVC ELBOW
- NATIVE SOIL
- PVC RISER- SIZE AND LENGTH AS REQUIRED
- PVC SUPPLY HEADER- SIZE PER PLAN
- 3/4" CRUSHED ROCK- 3" LAYER
- LANDSCAPE FABRIC



NOTES:

AIR RELIEF VALVE (PLD-AVR) INSTALLED IN VALVE BOX AT OPTIMAL HIGHEST POINT FROM CONTROL ZONE KIT. MULTIPLE AIR RELIEF VALVES MAY BE NEEDED TO ACCOMMODATE DIFFERENCES IN GRADE.

ECO-INDICATOR TO BE INSTALLED AT OPTIMAL FURTHEST POINT FROM CONTROL ZONE KIT IN CLEAR VIEW WHEN POPPED UP.

FLUSH POINT TO BE INSTALLED AT OPTIMAL FURTHEST POINT FROM CONTROL ZONE KIT TO ALLOW FOR MAXIMUM DEBRIS FLUSH IN SYSTEM.

E PVC TO DRIPLINE TUBING
SCALE: NTS

WATER PRESSURE CALCULATIONS

Planz Elementary School Static Pressure: 60.00
Max. GPM Demand: 77.00

Units	Size	Type	Description	GPM	Unit PSI Loss
1	4"	Reduc.	Pressure BFP	77.00	10.30
735	4"	Cl. 200	Mainline	77.00	01.18
1	2-1/2"	Brass	Gate Valve	77.00	00.05
1	2-1/2"	Brass	Gate Valve	77.00	00.05
1	2-1/2"	Brass	Gate Valve	77.00	00.05
1	2-1/2"	Brass	Gate Valve	77.00	00.05
1	2"	Plastic	Control Valve	77.00	02.50
36	1"	Sch. 40	Lateral Line	07.70	00.53
64	1-1/4"	Sch. 40	Lateral Line	15.40	00.90
35	1-1/2"	Sch. 40	Lateral Line	23.10	00.49
35	2"	Sch. 40	Lateral Line	30.80	00.25
20	2-1/2"	Sch. 40	Lateral Line	38.50	00.09
10	3"	Sch. 40	Lateral Line	77.00	00.06
Misc			Fittings Allowance		01.18
Component Losses:					17.73

Station #: 13
Highest GPM System
Min. Req'r by Head: 40.00
Elev. Loss/Gain: 00.00
Total Pressure Req'r: 57.73
Residual Pressure: 02.27

Planz Elementary School Static Pressure: 60.00
Max. GPM Demand: 57.50

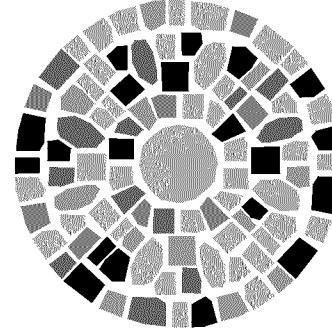
Units	Size	Type	Description	GPM	Unit PSI Loss
1	4"	Reduc.	Pressure BFP	57.50	10.30
84	4"	Cl. 200	Mainline	57.50	00.08
186	3"	Cl. 200	Main Line	57.50	00.53
1	2-1/2"	Brass	Gate Valve	57.50	00.03
1	2-1/2"	Brass	Gate Valve	57.50	00.03
1	1-1/2"	Plastic	Control Valve	57.50	03.00
21	3/4"	Sch. 40	Lateral Line	01.03	00.02
21	3/4"	Sch. 40	Lateral Line	03.18	00.20
13	3/4"	Sch. 40	Lateral Line	05.33	00.31
20	1"	Sch. 40	Lateral Line	10.66	00.54
21	2"	Sch. 40	Lateral Line	31.63	00.16
19	2"	Sch. 40	Lateral Line	48.65	00.31
10	2-1/2"	Sch. 40	Lateral Line	57.50	00.10
Misc			Fittings Allowance		00.50
Component Losses:					16.11

Station #: 1
Farthest System
Min. Req'r by Head: 25.00
Elev. Loss/Gain: 00.00
Total Pressure Req'r: 41.11
Residual Pressure: 18.89

Planz Elementary School Static Pressure: 60.00
Max. GPM Demand: 59.80

Units	Size	Type	Description	GPM	Unit PSI Loss
1	4"	Reduc.	Pressure BFP	59.80	10.30
466	4"	Cl. 200	Mainline	59.80	00.42
1	2-1/2"	Brass	Gate Valve	59.80	00.03
1	2-1/2"	Brass	Gate Valve	59.80	00.03
1	2-1/2"	Brass	Gate Valve	59.80	00.03
1	1-1/2"	Plastic	Control Valve	59.80	01.70
29	3/4"	Sch. 40	Lateral Line	01.67	00.08
29	3/4"	Sch. 40	Lateral Line	05.00	00.62
29	1"	Sch. 40	Lateral Line	08.33	00.50
25	1"	Sch. 40	Lateral Line	10.00	00.60
15	1-1/2"	Sch. 40	Lateral Line	29.90	00.34
10	2-1/2"	Sch. 40	Lateral Line	59.80	00.10
Misc			Fittings Allowance		00.50
Component Losses:					15.25

Station #: 11
Farthest System
Min. Req'r by Head: 35.00
Elev. Loss/Gain: 00.00
Total Pressure Req'r: 50.25
Residual Pressure: 09.75



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FOR: GREENFIELD UNION ELEMENTARY SCHOOL DISTRICT

PLANZ ELEMENTARY SCHOOL
2400 PLANZ RD
BAKERSFIELD , CA 93304

Planz Elementary School Static Pressure: 60.00
Max. GPM Demand: 41.50

Units	Size	Type	Description	GPM	Unit PSI Loss
1	4"	Reduc.	Pressure BFP	41.50	10.30
92	4"	Cl. 200	Mainline	41.50	00.05
255	3"	Cl. 200	Main Line	41.50	00.40
1	2-1/2"	Brass	Gate Valve	41.50	00.02
1	2-1/2"	Brass	Gate Valve	41.50	00.02
1	2-1/2"	Brass	Gate Valve	41.50	00.02
1	1-1/2"	Plastic	Control Valve	41.50	01.80
23	3/4"	Sch. 40	Lateral Line	01.03	00.03
23	3/4"	Sch. 40	Lateral Line	03.18	00.21
23	3/4"	Sch. 40	Lateral Line	05.33	00.56
23	1"	Sch. 40	Lateral Line	07.48	00.32
15	1"	Sch. 40	Lateral Line	09.63	00.34
23	1"	Sch. 40	Lateral Line	10.66	00.62
18	2"	Sch. 40	Lateral Line	30.86	00.13
5	2"	Sch. 40	Lateral Line	41.50	00.06
Misc			Fittings Allowance		00.53
Component Losses:					15.41

Station #: 18
Farthest System
Min. Req'r by Head: 25.00
Elev. Loss/Gain: 00.00
Total Pressure Req'r: 40.41
Residual Pressure: 19.59

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CAD DRAWING FILE:
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IRRIGATION DETAILS AND CALCULATIONS

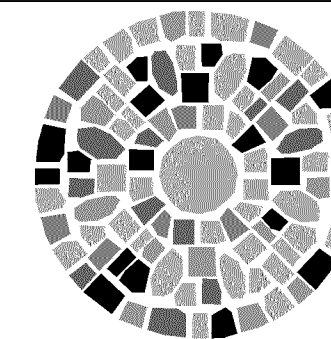
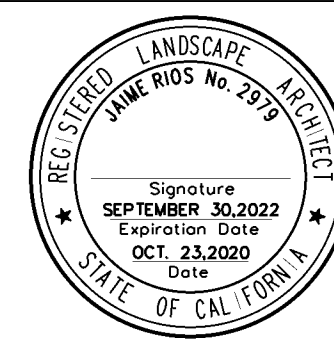
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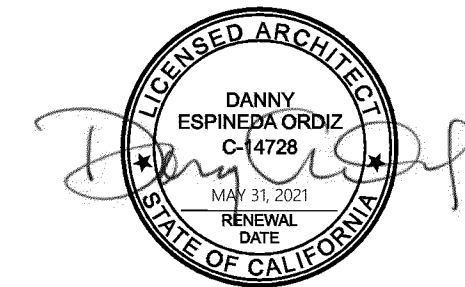
SHEETS IN SET

<p>CONSTRUCTION LEGEND</p> <p>① CONCRETE CURB. COLOR: NATURAL GREY TEXTURE: BROOM REFER TO DETAIL B, SHEET L13.</p> <p>② 3" THICK LAYER OF STABILIZED DECOMPOSED GRANITE INSTALLED OVER SOIL SEPARATOR FABRIC. COLOR: TAN</p>		<p>NOTE</p> <p>REFER TO SHEET L13 FOR PLANTING LEGEND, NOTES AND DETAILS.</p>
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NOTE
REFER TO SHEET L13
FOR PLANTING LEGEND,
NOTES AND DETAILS.



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





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KINDERGARTEN SITEWORK - PH II

FOR:
GREENFIELD UNION
ELEMENTARY SCHOOL
DISTRICT

PLANZ ELEMENTARY SCHOOL
2400 PLANZ RD
BAKERSFIELD , CA 93304

MARK	DATE	DESCRIPTION
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JOB NUMBER:
2036

CAD DRAWING FILE:
2036.01 Planz Kindergarten Complex_CD23.pln

DRAWN BY:
JR

CHECKED BY:
MFR

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PLANTING PLAN

SHEET IDENTIFICATION NUMBER

L11

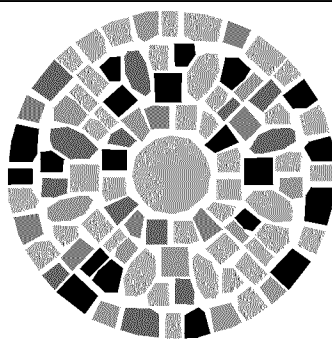
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RDS# 20-575 OCT. 23, 2020

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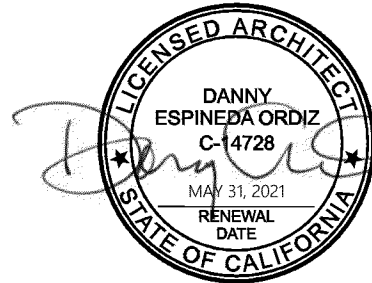
NOTE

REFER TO SHEET L13
FOR PLANTING LEGEND,
NOTES AND DETAILS.



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**KINDERGARTEN
SITEWORK - PH II**

**FOR:
GREENFIELD UNION
ELEMENTARY SCHOOL
DISTRICT**

PLANZ ELEMENTARY SCHOOL
2400 PLANZ RD
BAKERSFIELD , CA 93304

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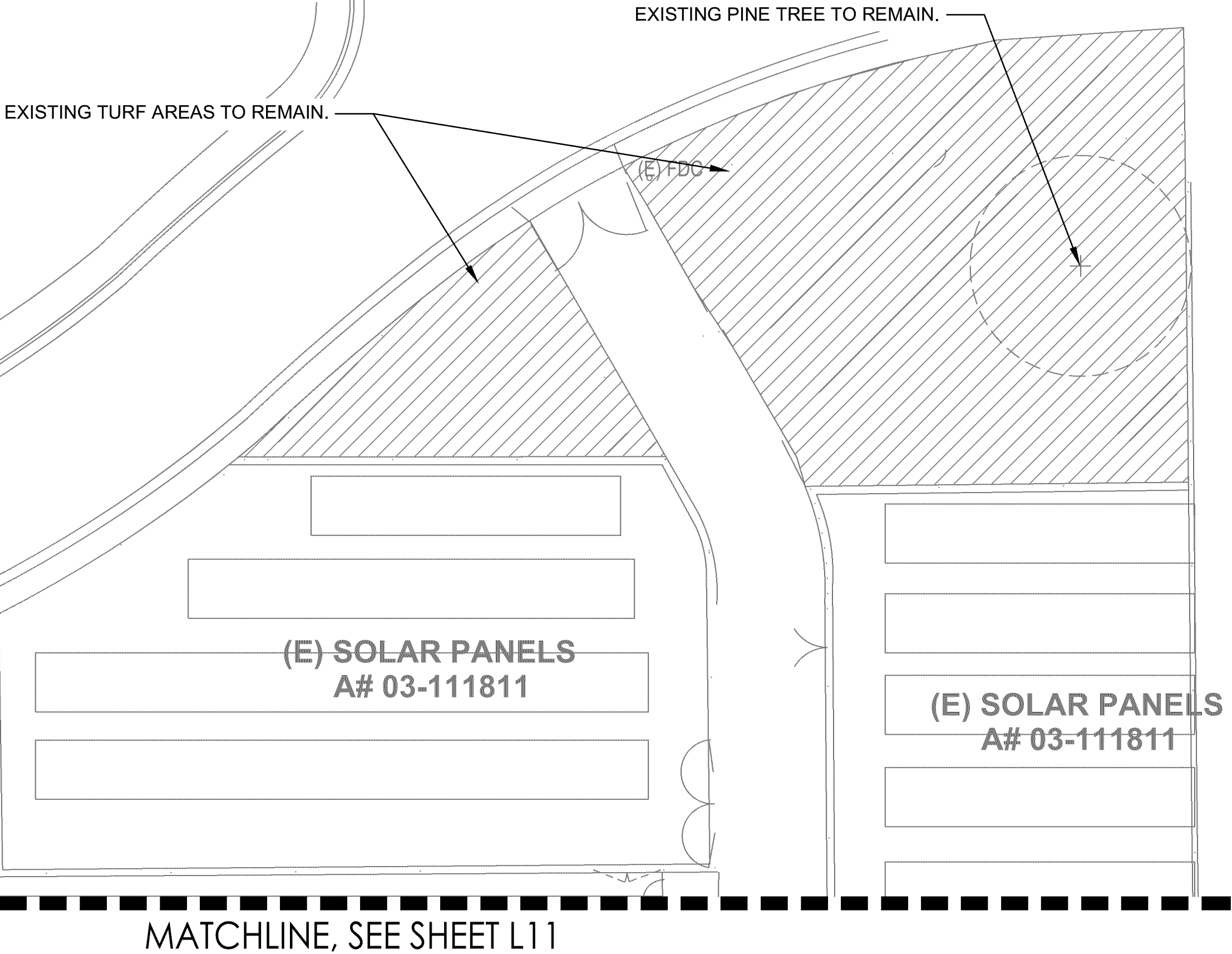
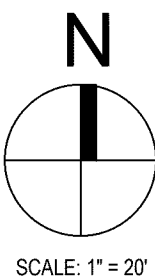
SHEET TITLE

PLANTING PLAN

SHEET IDENTIFICATION NUMBER

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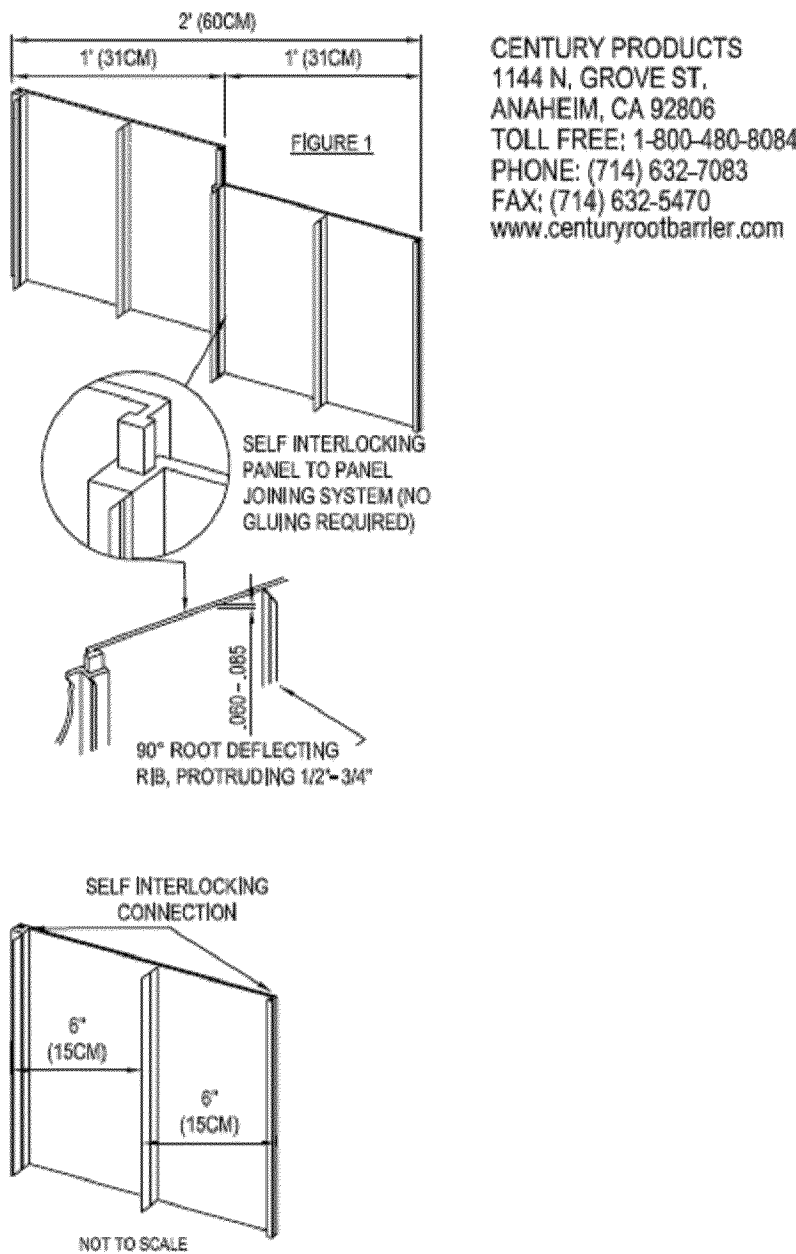
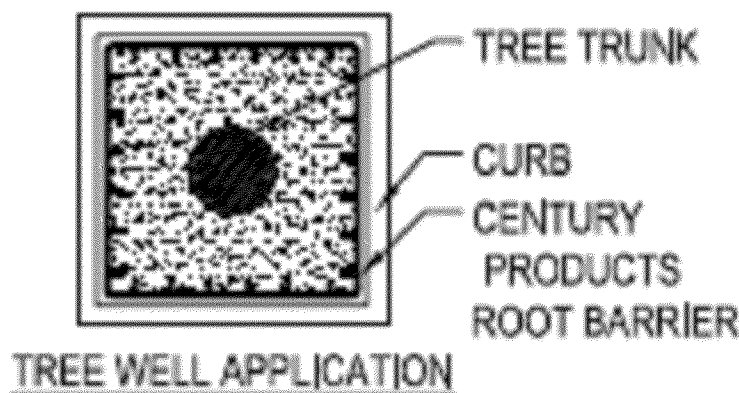


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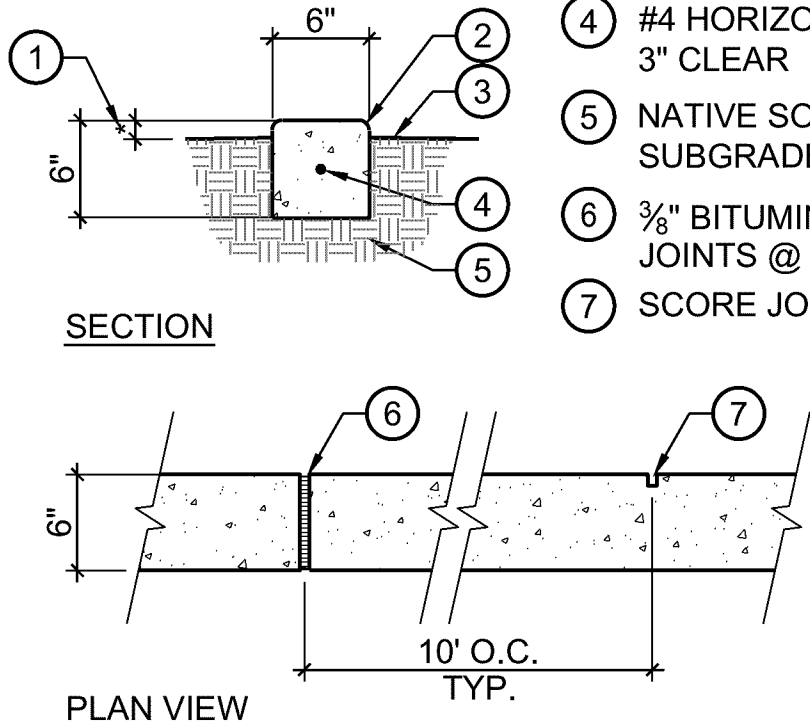
WHERE TREE IS 5 FEET OR LESS FROM PAVING, INSTALL ROOT BARRIER PANELS ALONG THE EDGE OF SURROUNDING PAVING WITH A MINIMUM OF 20" LINEAL FEET OR 10' FROM TRUNK IN BOTH DIRECTIONS.

- CENTURY CP - SERIES PANELS ARE PRE-ASSEMBLED IN 2' LONG SEGMENTS WHICH CAN BE COMBINED TO CREATE VARIOUS LENGTHS OF BARRIER TO FIT YOUR APPLICATION.
1. SPECIFICATIONS:
- A. THE ROOT BARRIER SHALL BE CP - SERIES MANUFACTURED BY CENTURY PRODUCTS, 1144 NORTH GROVE ST., ANAHEIM, CA, 92806 (714) 632-7083, OR APPROVED EQUIVALENT.
- B. THE BARRIERS ARE BLACK, MOLDED, MODULAR PANELS MANUFACTURED USING 50% RECYCLED POLYETHYLENE PLASTIC WITH ULTRAVIOLET INHIBITORS AND .060 - .085 IN THICKNESS. EACH PANEL HAS VERTICAL 90° ROOT DEFLECTING RIBS PROTRUDING 1/2"- 3/4" IN HEIGHT. THE RIBS HAVE A MINIMUM THICKNESS OF .060 - .085 AND ARE PLACED 6" - 8" APART. AN INTEGRATED SELF-INTERLOCKING 90° RIBBED CONNECTION JOINING SYSTEM PROVIDES FOR INSTANT ASSEMBLY BY SLIDING ONE PANEL INTO ANOTHER.
2. INSTALLATION
- A. THE SPECIFIED NUMBER OF PANELS SHALL BE JOINED TOGETHER AND PLACED ALONG HARDSCAPES TO CREATE A LINEAR PLANTING APPLICATION OR CONNECTED TO ENCIRCLE THE ROOT BALL FOR SURROUND PLANTING.
- B. VERTICAL 90° ROOT DEFLECTING RIBS ARE ALWAYS FACING THE ROOT BALL.
- C. ALWAYS INSTALL THE PANELS 1"-2" ABOVE GRADE TO AVOID ROOT PENETRATION ABOVE THE BARRIER.
- D. PREPARE YOUR INSTALLATION AS DEPICTED IN ILLUSTRATIONS. (ASSEMBLE PANELS AS SHOWN IN FIG. 1).
- E. RECOMMENDED FOR LINEAR OR TREE WELL PLANTING APPLICATIONS, FOR DRAINAGE BACKFILL WITH NATIVE SOIL OR (IF NECESSARY) WHILE COMPACT SOIL CONDITIONS EXIST, USE GRAVEL OR CRUSHED ROCK. AVOID BACKFILL LESS THAN 3/4" OR GREATER THAN 1 1/2". FINISH TO GRADE. DO NOT DISTORT BARRIER INSTALLATION.

- NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. ALL DIMENSIONS ARE CONSIDERED TRUE AND REFLECT MANUFACTURER'S SPECIFICATIONS.
3. DO NOT SCALE DRAWING.
4. THESE DRAWINGS ARE NOT FOR CONSTRUCTION PURPOSES AND ARE FOR INFORMATION PURPOSES ONLY. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
5. TOLERANCES MAY VARY IN ORDER TO MAINTAIN THE INTEGRITY OF POST-CONSUMER MATERIALS, AND ASSURE THE MATERIAL STRUCTURE. WE MAKE NO OTHER WARRANTIES, EXPRESS OR IMPLIED, AND SPECIFICALLY DISCLAIM THE WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE

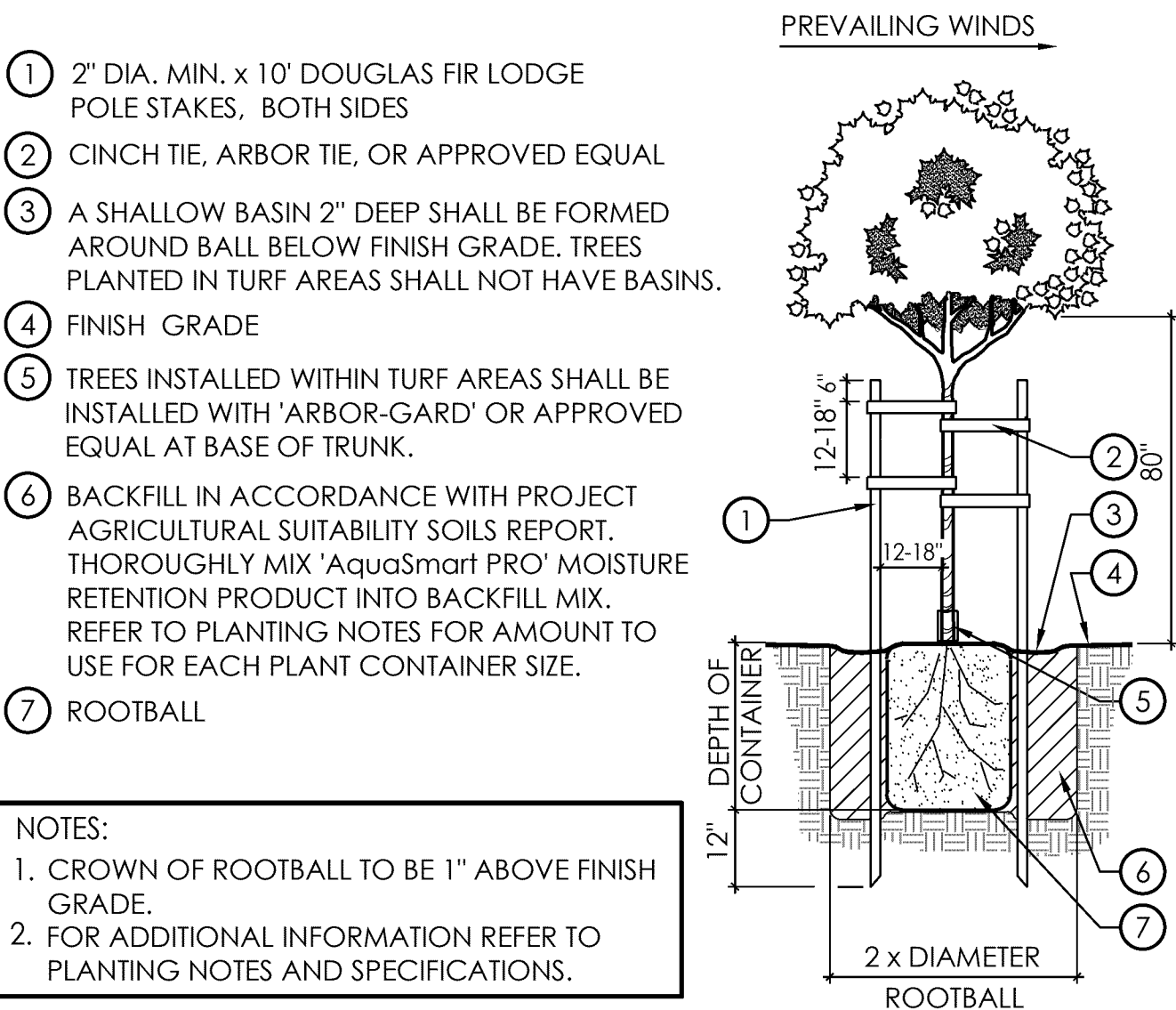


- 1 1" IN TURF AREA AND 2" IN SHRUB BED
- 2 CONCRETE MOW STRIP WITH 1/2" RADIUS ALONG ALL EXPOSED EDGES
- 3 FINISH GRADE
- 4 #4 HORIZONTAL REBAR, CONTINUOUS- 3" CLEAR
- 5 NATIVE SOIL OR COMPACTED SUBGRADE
- 6 3/8" BITUMINOUS FELT EXPANSION JOINTS @ 20' O.C. MAX
- 7 SCORE JOINTS @ 5' O.C.



B TREE PLANTING

SCALE: 1"=1'-0"

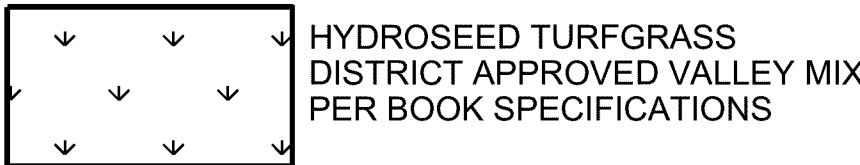


- NOTES:
1. CROWN OF ROOTBALL TO BE 1" ABOVE FINISH GRADE.
2. FOR ADDITIONAL INFORMATION REFER TO PLANTING NOTES AND SPECIFICATIONS.

PLANTING LEGEND

TREES	ABBREV.	BOTANICAL NAME	COMMON NAME	SIZE	WUCOLS
GLE TRI		GLEDITSIA TRIACANTHOS VAR INERMIS 'SHADEMASTER'	THORNELESS HONEY LOCUST	24" BOX / STD. 36" BOX / STD.	L L
PIS CHI		PISTACIA CHINENSIS	CHINESE PISTACHE	24" BOX / STD.	L

THE FINISH GRADE AT TREE WELLS SHALL BE COVERED WITH A 3" THICK MIN. LAYER OF STABILIZED DECOMPOSED GRANITE. GAIL MATERIALS STABILIZED DECOMPOSED GRANITE WITH NATRACIL ORGANIC BINDER (WWW.GAILMATERIALS.NET) OR APPROVED EQUAL. CONTRACTOR SHALL SUBMIT A SAMPLE FOR APPROVAL PRIOR TO INSTALLATION.



HYDROSEED MIX INSTALLED AT RATE OF 12 LBS/1000 SF
AVAILABLE AT STOVER SEED COMPANY (800) 621-0315

DURING SOIL PREPARATION PROCESS, INCORPORATE 'AquaSmart Pro' WATER RETENTION SAND POLYMER AT RATE OF 40 LBS/1000 SF TO THE TOP 2" TO 4" OF SOIL.
AVAILABLE AT EWING IRRIGATION (661) 323-9530

SOIL ANALYSIS AND SOIL AMENDMENT REQUIREMENTS

THE SOIL ANALYSIS REPORTS HAS BEEN DONE BY MIDWEST LABS. THE ANALYSIS AND SAMPLE INDICATE A SILT LOAM TEXTURE. ORGANIC AND NITROGEN VALUES ARE MODERATE. THE PHOSPHORUS AND POTASSIUM VALUES ARE VERY HIGH.

THE PH VALUE IS 7.6, OPTIMAL RANGE IS 6.5 - 7.0

SODIUM AND BORON VALUES ARE VERY HIGH AND MAY HAVE AN AFFECT ON YOUNG PLANTS.

APPLY LIQUID 6% HUMIC ACID AT 32 OZ PER 1000 SQ FT OR APPROX 10 GAL. PER ACRE, FOR A TOTAL OF THREE TIMES. THIS WILL HELP BUFFER THE CONCENTRATED LEVELS OF SODIUM AND BORON, MITIGATING THE NEGATIVE EFFECTS ON YOUNG PLANTS AND SEED GERMINATION.

COMPLETE SITE RECOMMENDATIONS AND RATES FOR SOIL AMENDING :

- A. CONTRACTOR SHALL INCORPORATE 4 CU YDS OF COMPOST PER 1000 SF TO A DEPTH OF 6" OF PERMEABLE AREA SO AS TO MAXIMIZE WATER RETENTION AND INFILTRATION.
- B. LIVE EARTH HUMATE SOIL CONDITIONER - @ 500 LBS PER 1000 SQ. FT. RAKE THE INTO THE TOP 2-4 INCHES.

TREES:

LIVE EARTH HUMATE SOIL CONDITIONER - @ APPROX .5 LB OR 1 CUP PER GALLON CONTAINER.

24" BOX - 25 LBS
36" BOX - 35 LBS
48" BOX - 50 LBS

MAINTENANCE 6-8 WEEKS AFTER INSTALLATION. APPLY TO ALL TURF AND TREES.

LIVE EARTH BACK NINE - @ 12.5 LBS PER 1000 SQ FT. APPLY AND WATER IN.

MAINTENANCE PROGRAMS:

TURF LIQUID PROGRAM:

FEB/MAR - LIVE EARTH LIQUID 6 % - @ 5 GALLONS PER ACRE.
(RATE OF 12-16 OZ PER 1000 SQ FT).

APRIL - LIVE EARTH BLITZ 22 PLUS (22-0-0) - @ 10 GALLONS PER ACRE.
(RATE OF 24-32 OZ PER 1000 SQ FT).

MAY - LIVE EARTH GREAT 8 - @ 5 GALLONS PER ACRE.
(RATE OF 12-16 OZ PER 1000 SQ FT).

JUNE - LIVE EARTH BLITZ 22 PLUS (22-0-0) - @ 10 GALLONS PER ACRE.
(RATE OF 24-32 OZ PER 1000 SQ FT).

JULY - LIVE EARTH LIQUID 6 % - @ 5 GALLONS PER ACRE.
(RATE OF 12-16 OZ PER 1000 SQ FT).

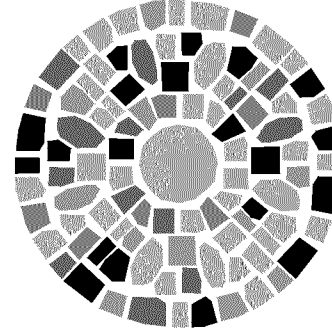
AUGUST - LIVE EARTH BLITZ 22 PLUS (22-0-0) - @ 10 GALLONS PER ACRE.
(RATE OF 24-32 OZ PER 1000 SQ FT).

SEPTEMBER - LIVE EARTH LIQUID 6 % - @ 5 GALLONS PER ACRE.
(RATE OF 12-16 OZ PER 1000 SQ FT).

TURF GRANULAR PROGRAM:

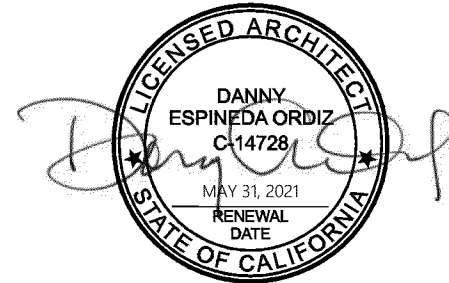
MARCH - LIVE EARTH BACK NINE - @ 12.5 LBS PER 1000 SQ FT.

MAY AND AUGUST - APPLY BLITZ 22 - @ 6.25 LBS PER 1000 SQ FT.



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PLANTING LEGEND, DETAILS AND NOTES

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13 SHEETS IN SET

RDS# 20-575

OCT. 23, 2020