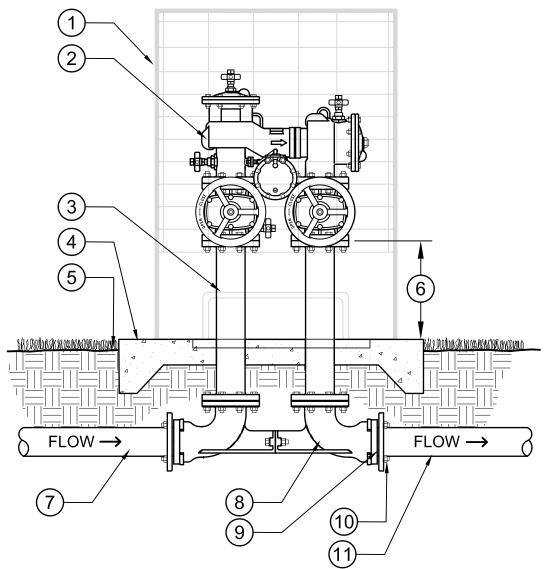


- (1) FINISH GRADE
- 2 CONCRETE METER BOX PER WATER DISTRICT STANDARDS
- WATER METER PER WATER DISTRICT STANDARDS
- TYPE K COPPER SERVICE LATERAL PER WATER DISTRICT STANDARDS
- 5 TYPE K COPPER TO BACKFLOW PREVENTION DEVICE
- 6" MINIMUM CRUSHED GRAVEL PER WATER DISTRICT STANDARDS
- 7 COMPACT SUBGRADE

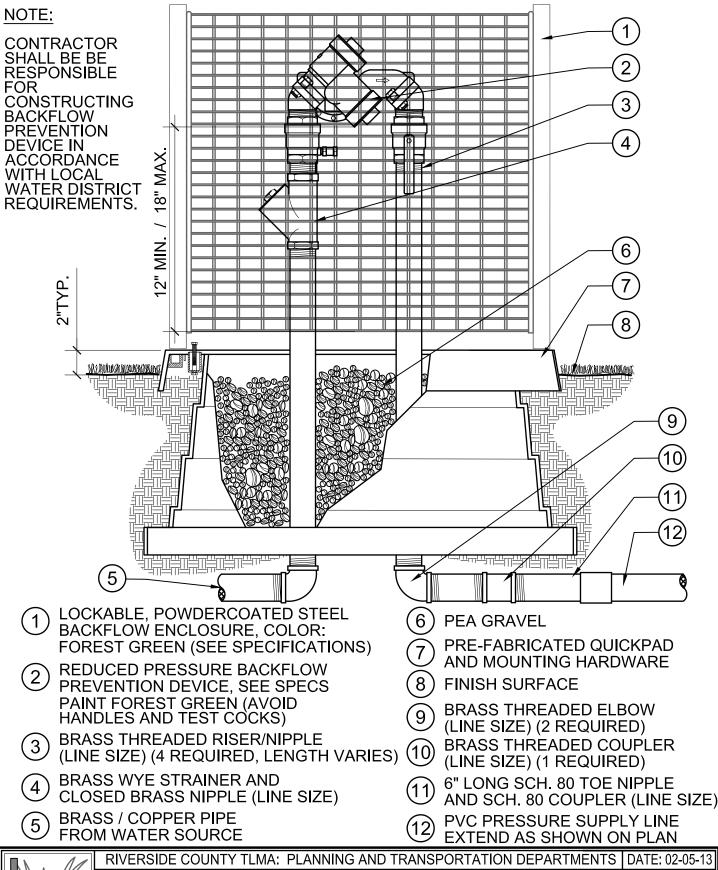
	RIVERSIDE COUNTY TLMA: PLANNING	AND TRANSPORTATION DI	EPARTMENTS	DATE: 02-05-13
	TYPICAL WATER ME	TER		OF RIVERS
	CONNECTION ONLY	APPROVED BY: MPH	1 3 m	* I A I A I A I A I A I A I A I A I A I
STD. I-001	3"=1'-0"	REV:	11/2	OFTATION DEP



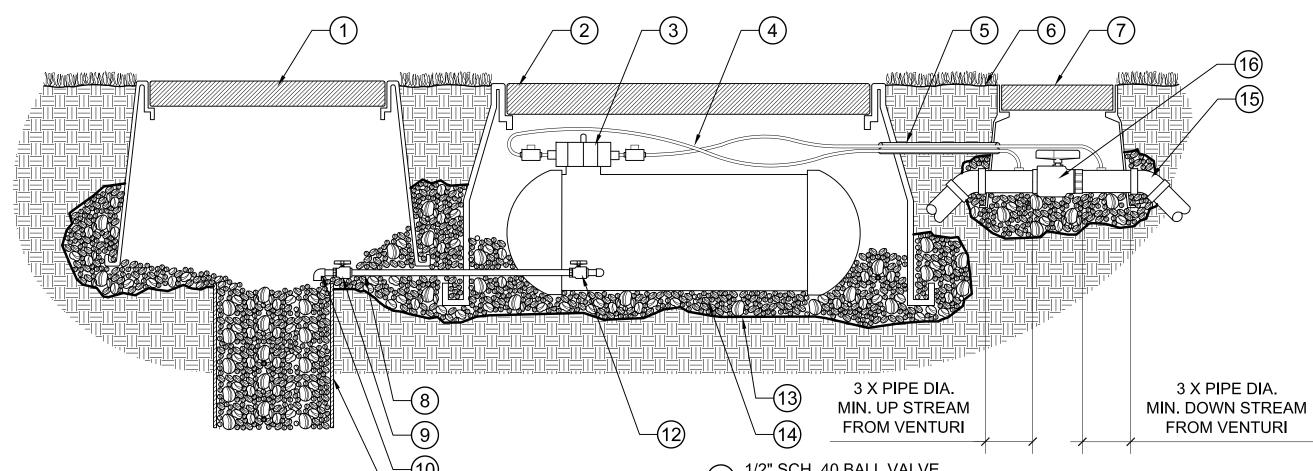
- 1 LOCKABLE, POWDERCOATED STEEL BACKFLOW ENCLOSURE, COLOR: FOREST GREEN (SEE SPECIFICATIONS)
- REDUCED PRESSURE BACKFLOW PREVENTION DEVICE, SEE SPECS PAINT FOREST GREEN (AVOID HANDLES AND TEST COCKS)
- 30" MIN DUCTILE IRON SPOOLS WITH FLANGES
- 6" THICK CONCRETE PAD FOR BACKFLOW ENCLOSURE
- (5) FINISH GRADE

- 6 4" MINIMUM CLEARANCE OR PER LOCAL CODE REQUIREMENTS
- The steel or PVC supply line from water source
- 8 VALVE SETTER FLANGE BY FLANGE FUSION EPOXY COATED
- 9 PVC SCH. 80 PVC FLANGE ADAPTER
- 10 ALL BURIED BOLTS SHALL BE COATED WITH MASTIC (SEE SPECIFICATIONS)
- STEEL OR PVC SUPPLY LINE
 TO PUMP OR MASTER VALVE
 NOTE: WRAP ALL BURIED IRON PIPE WITH
 (1) ONE LAYER OF 10 MIL. POLY SHEETING









- PURPLE RECTANGULAR VALVE BOX (SEE SPECIFICATIONS (DO NOT CUT ADDITIONAL HOLES INTO BOX)
- PURPLE JUMBO VALVE BOX / PLASTIC VAULT WITH LID (BOX SIZE VARIES WITH INJECTOR MODEL. DRAWING ILLUSTRATES MODEL EZ010-FX)
- FERTILIZER INJECTOR TANK AND AND ADJUSTMENT CAP
- 4 1/4" SUPPLY TUBING (PROVIDED WITH INJECTOR KIT)
- 5 SECTION OF 1" PURPLE SCH. 40 PVC. DRILL HOLES IN VALVE BOXES FOR PASS THROUGH

- 6) FINISH GRADE
- 7 PURPLE 10" ROUND VALVE BOX (DO NOT CUT ADDITIONAL HOLES INTO BOX)
- 8 SEGMENT OF PURPLE 1/2" SCH. 40 PVC, CONNECT TO BALL VALVE AT INJECTOR UNIT 15
- 9 1/2" SCH. 40 BALL VALVE (1 REQUIRED)
- 1/2" SCH. 40 S X S 90 DEGREE ELBOW (1 REQUIRED)

APPROVED BY: MPH

12" SECTION OF 12" DIA. SDR 35 OR SCH. 40 PVC PIPE, FILL WITH GRAVEL

- 1/2" SCH. 40 BALL VALVE (PROVIDED WITH INJECTOR KIT)
- 13 INSTALL FILTER FABRIC AROUND GRAVEL SUMP
- 3/4" GRAVEL SUMP IN, UNDER AND AROUND VALVE BOX. FILL TO TOP OF VALVE BOX HOLES
- SCH. 80 PVC 45 DEGREE ELBOW IN AND RECYCLED IRRIGATION SYSTEM PRESSURE SUPPLY LINE AS NEEDED USING A FERTILIZER INJECTOR.
- BALL VALVE / INJECTOR TEE
 (MAINLINE SIZE)
 INSTALL WITH FLOW ARROWS AS
 SHOWN ON THE INJECTOR TEE.
 INJECTOR TEE MUST BE INSTALLED
 EQUAL TO OR BELOW THE LEVEL OF
 THE CAP ON THE TANK.

NOTE:

INSTALLATION OF BACKFLOW PREVENTION DEVICE DIRECTLY DOWNSTREAM OF WATER METER IS REQUIRED ON POTABLE AND RECYCLED IRRIGATION SYSTEMS USING A FERTILIZER INJECTOR.

FOR SYSTEMS WITH A PRESSURE SUPPLY LINE SIZE GREATER THAN 2" CONSULT WITH RCTLMA REPRESENTATIVE PRIOR TO INSTALLATION OF FERTILIZER INJECTOR.

RIVERSIDE COUNTY TLMA: PLANNING AND TRANSPORTATION DEPARTMENTS

FERTILIZER INJECTOR FOR UP TO 2" PRESSURE SUPPLY LINE

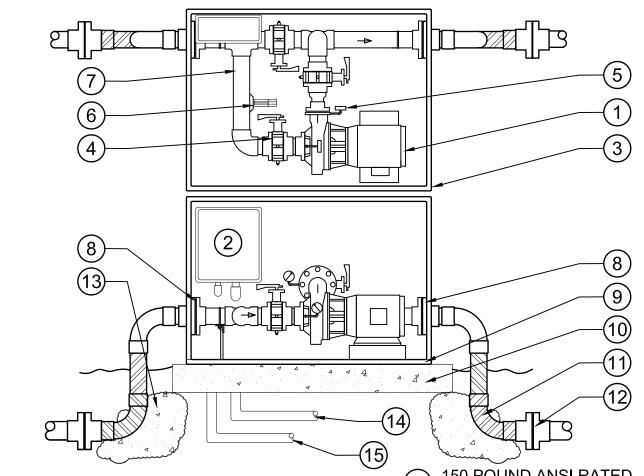
WITH MAINLINE BALL VALVE AND DRAINAGE SUMP

1 1/2"=1'-0"

RE\

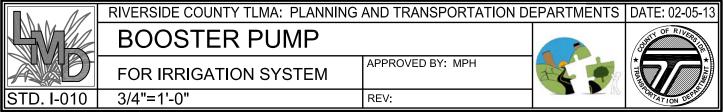


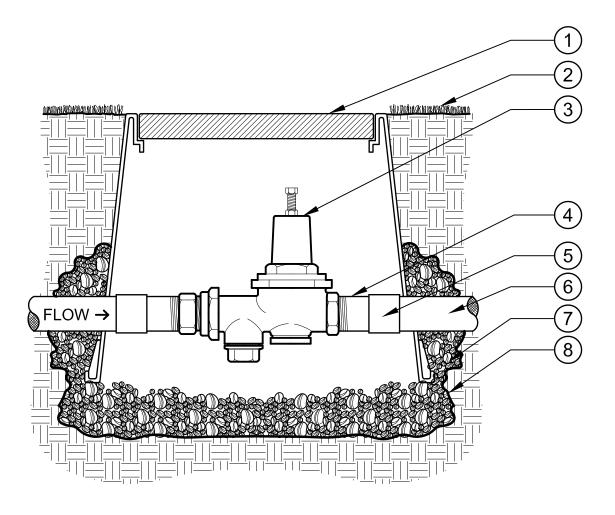




- 1 CLOSE-COUPLED END SUCTION
 CENTRIFUGAL PUMP, CAST IRON BRONZE
 FITTED, BACK PULLOUT DESIGN, MECHANICAL
 SEAL, ODP MOTOR WITH A VARIABLE
 FREQUENCY DRIVE SYSTEM.
- (2) NEMA 4 ENCLOSED CONTROL PANEL, WITH CIRCUIT BREAKER, MAGNETIC STARTER, HOA SWITCH, AND COMPONENTS FOR AUTOMATIC BOOSTER PUMP CONTROL
- MARINE GRADE ALUMINUM ENCLOSURE HINGED DESIGN WITH VENTING
- CAST IRON ELASTOMER LINED FULL LUG WAFER STYLE BUTTERFLY VALVE
- PRESSURE GAUGE, 2 1/2" DIAL, LIQUID FILLED, STAINLESS CASE, 0-200 P.S.I.
- 6 FLOW SWITCH, BRONZE, PADDLE STYLE NON-ADJUSTABLE, 100 P.S.I. RATED (OPTIONAL)
- TYPE 304 STAINLESS STEEL (SIZE VARIES)

- 8 150 POUND ANSI RATED BRASS OUTPUT FLANGE
- 9 FABRICATED STRUCTURAL ALUMINIUM BASEPLATE
- (10) 6" CONCRETE PAD, ASTM C-94, ACI STD. 318-83 DESIGN MIX, 2500 PSI RATED
- 11 DOUBLE PVC TAPE WRAPPED BRASS PIPE
- (12) PVC SCH. 80 / BRASS COMPANION FLANGE CONNECTION
- CONCRETE THRUST BLOCK 4 CUBIC FEET MINIMUM
- (14) MAIN POWER CONDUIT
- CONTROLLER / PUMP RELAY CONDUIT

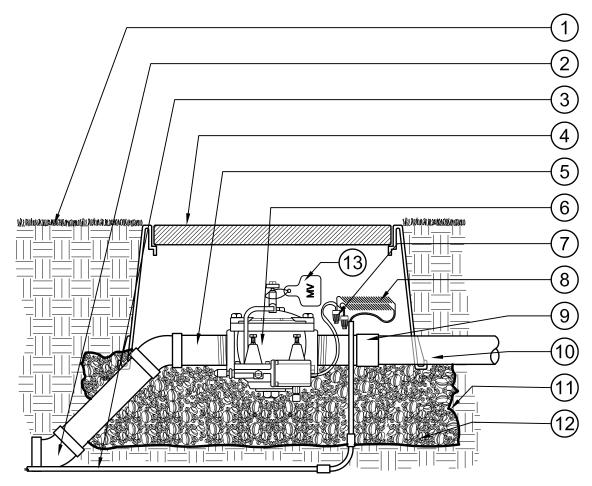




- 1 RECTANGULAR VALVE BOX (SEE SPECIFICATIONS), DO NOT CUT ADDITIONAL HOLES INTO BOX
- (2) FINISH GRADE
- PRESSURE REGULATING VALVE (SEE SPECIFICATIONS)
- 4" LONG SCH. 80 TOE NIPPLE (LINE SIZE) (TWO REQUIRED)

- 5 SCH. 80 COUPLING (LINE SIZE) (TWO REQUIRED)
- 6 PRESSURE SUPPLY LINE, ALIGN WITH FLOW SENSOR
- 7 3/4" GRAVEL SUMP IN, UNDER AND AROUND VALVE BOX FILL TO TOP OF THE HOLES WRAP WITH FILTER FABRIC
- 8 INSTALL FILTER FABRIC AROUND GRAVEL SUMP

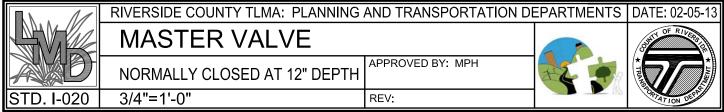


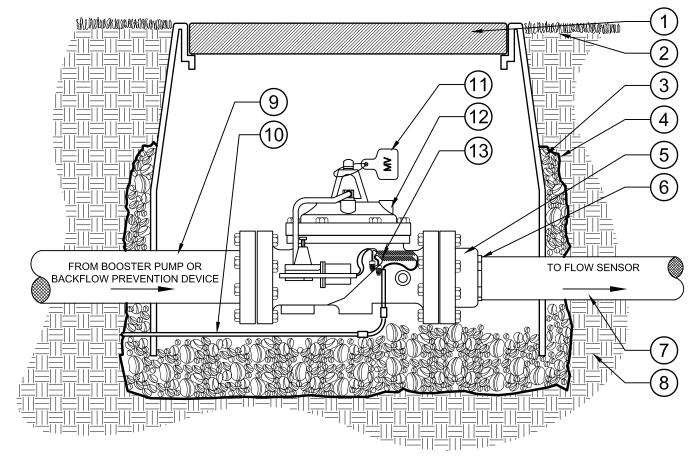


- (1) FINISH GRADE
- 2 45 DEGREE ELL (2 REQUIRED)
- 3/4" SCH 40 WIRE CONDUIT WITH SWEEP FOR MASTER VALVE WIRES (TO CONTROLLER)
- JUMBO RECTANGULAR VALVE BOX (SEE SPECIFICATIONS). DO NOT CUT ADDITIONAL HOLES INTO BOX
- 5 4" LONG SCH. 80 TOE NIPPLE (LINE SIZE) (2 REQUIRED)
- 6 MASTER VALVE (SEE SPECS)
- 7 CONNECT WIRES TO VALVE USING WATER TIGHT CONNECTORS (SEE SPECS)

- 8 USE 1/2" PVC SCRAP TO WRAP 12" OF ADDITIONAL WIRE BEFORE CONNECTING
- 9 SCH. 80 COUPLER (ONE REQUIRED) (LINE SIZE)
- PRESSURE SUPPLY LINE, ALIGN WITH FLOW SENSOR (SEE PLAN FOR SIZE)
- 11 INSTALL FILTER FABRIC AROUND GRAVEL SUMP
- 3/4" GRAVEL SUMP, IN, UNDER AND AROUND VALVE BOX. FILL TO TOP OF VALVE BOX HOLES
- (13) VALVE IDENTIFICATION TAG

NOTE: ALL CONDUIT SHALL BE SEALED WATER TIGHT WITH EXPANDING FOAM.



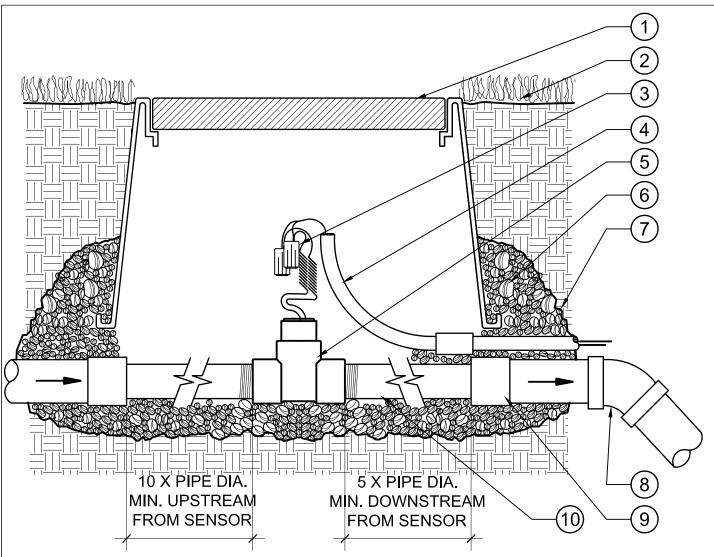


- JUMBO VALVE BOX / PLASTIC VAULT WITH LID (BOX SIZE VARIES WITH VALVE SIZE)
- (2) FINISH GRADE
- 3/4" GRAVEL SUMP IN, UNDER AND AROUND VALVE BOX (FILL TO TOP OF VALVE BOX HOLES)
- 4 INSTALL FILTER FABRIC AROUND GRAVEL SUMP
- 5 SCH. 80 PVC FLANGE FLANGE X SLIP (SIZE VARIES)
- 6 SxS SCH. 80 REDUCER BUSHING (IF NEEDED)
- 7 PRESSURE SUPPLY LINE TO FLOW SENSOR
- (8) COMPACTED SUBGRADE

- 9 SPOOL FROM BACKFLOW PREVENTION DEVICE, STRAINER OR BOOSTER PUMP (SIZE AND LENGTH VARIES)
- 3/4" SCH 40 WIRE CONDUIT WITH SWEEP FOR MASTER VALVE WIRES (TO CONTROLLER)
- (11) VALVE IDENTIFICATION TAG
- (12) MASTER VALVE
- USE 3/4" PVC SCRAP TO WRAP 24' OF ADDITIONAL WIRE, CONNECT WIRES TO MASTER VALVE USING WATERPROOF WIRE CONNECTORS

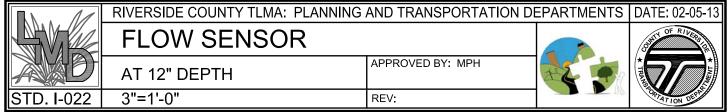
- ALL BURIED BOLTS SHALL BE COATED WITH TWO (2) COATS AN APPROVED WATERPROOF COATING.
- ALL BURIED IRON PIPE SHALL BE WRAPPED WITH ONE (1) LAYER 10 MIL. POLYETHYLENE SHEETING TAPED IN PLACE.

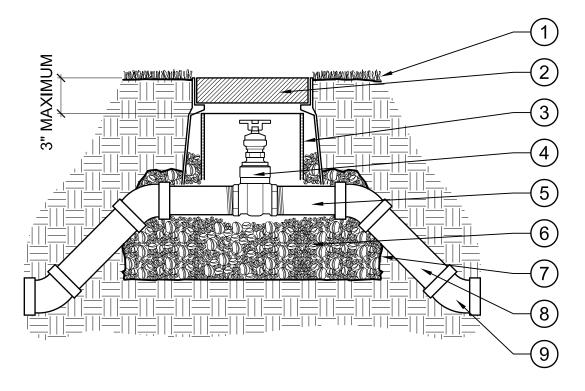




- RECTANGULAR VALVE BOX (SEE SPECIFICATIONS) (DO NOT CUT ADDITIONAL HOLES INTO BOX)
- (2) FINISH GRADE
- 3 CONNECT WIRE TO FLOW SENSOR USING WATER TIGHT CONNECTORS (SEE SPECIFICATIONS)
- 3/4" SCH. 40 PVC CONDUIT WITH SWEEP FOR FLOW SENSOR WIRE (TO CONTROLLER)
- 5 FLOW SENSOR (PVC OR BRASS) (SEE SPECIFICATIONS)
- 6 3/4" GRAVEL SUMP IN, UNDER AND AROUND VALVE BOX. FILL TO TOP OF VALVE BOX HOLES

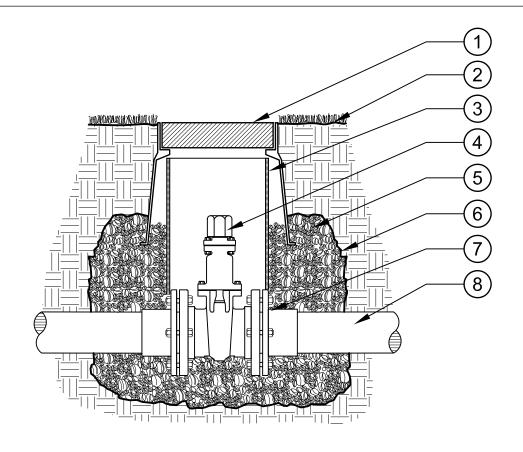
- 7 INSTALL FILTER FABRIC AROUND GRAVEL SUMP
- 8 45 DEGREE PVC SCH. 40 S x S ELBOW (2 REQUIRED) EXTEND PRESSURE SUPPLY LINE TO 18" DEPTH
- 9 PVC REDUCING BUSHING FOR REDUCTION IN PIPE SIZE AT FLOW SENSOR (TWO REQUIRED, IF NEEDED)
- (SENSOR SIZE IF BRASS) SCH. 80 PVC SEGMENT (SENSOR SIZE - IF PVC)





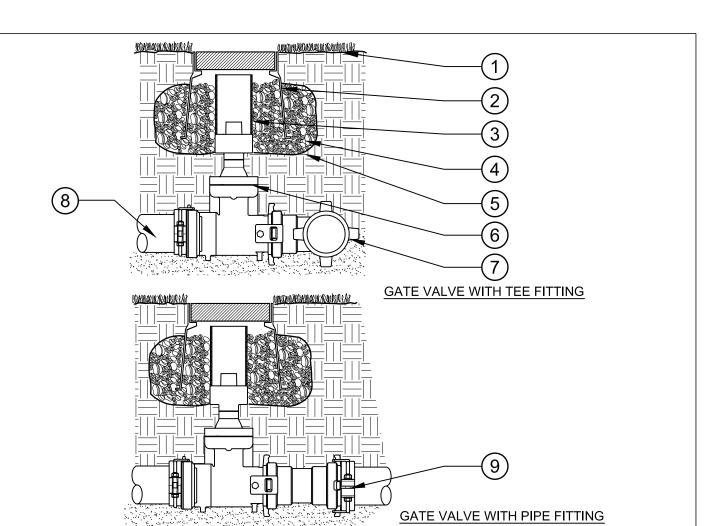
- (1) FINISH GRADE
- 2 10" ROUND VALVE BOX (SEE SPECIFICATIONS, DO NOT CUT ADDITIONAL HOLES INTO BOX)
- 8" DIAMETER CL 160 PVC SLEEVE (TO REST ON TOP EDGE OF ISOLATION GATE VALVE)
- (WITH CROSS HANDLE, SEE SPECIFICATIONS)
- 6" LONG SCH. 80 TOE NIPPLE (LINE SIZE) (TWO REQUIRED)
- 6 3/4" GRAVEL SUMP IN, UNDER AND AROUND VALVE BOX, FILL TO TOP OF VALVE BOX HOLES
- 7 INSTALL FILTER FABRIC AROUND GRAVEL SUMP
- 8 PRESSURE SUPPLY LINE (REFER TO PLAN FOR SIZE)
- 9 SLIP X SLIP 45 DEGREE ELL (4 REQUIRED)





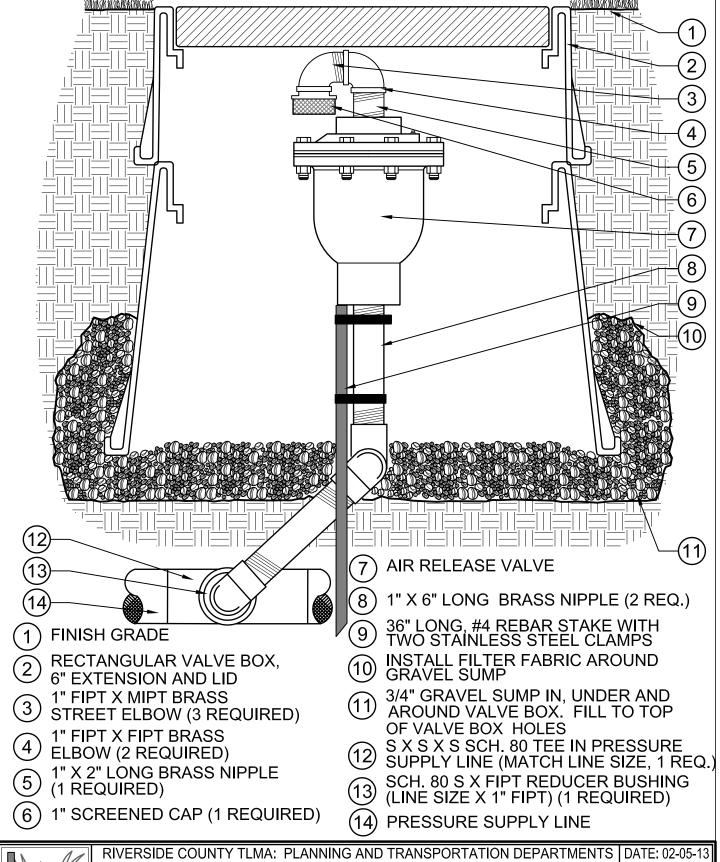
- 10" ROUND VALVE BOX (SEE SPECIFICATIONS) (DO NOT CUT ADDITIONAL HOLES INTO BOX)
- (2) FINISH GRADE
- 3 8" CL 160 PVC SLEEVE (TO REST ON TOP EDGE OF VALVE ASSEMBLY)
- 4 ISOLATION GATE VALVE WITH 2" SQUARE OPERATING NUT (SEE SPECIFICATIONS)
- 5 3/4" GRAVEL SUMP IN, UNDER, AND AROUND VALVE BOX FILL TO TOP OF VALVE BOX HOLES
- 6 INSTALL FILTER FABRIC AROUND GRAVEL SUMP
- 7 FLG X SLIP SCH. 80 PVC FLANGE (2 REQUIRED)
- PRESSURE SUPPLY LINE (REFER TO PLAN FOR SIZE)

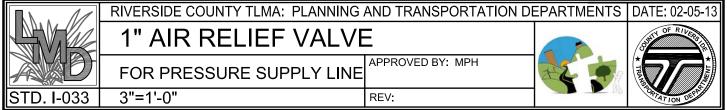
	PARTMENTS	DATE: 02-05-13		
	ISOLATION GATE VA	LVE	Signal Si	
	FOR 3" PRESSURE SUPPLY LINE	APPROVED BY: MPH	THE THE	* IANA
STD. I-031	3"=1'-0"	REV:		TOPTATION DEPT

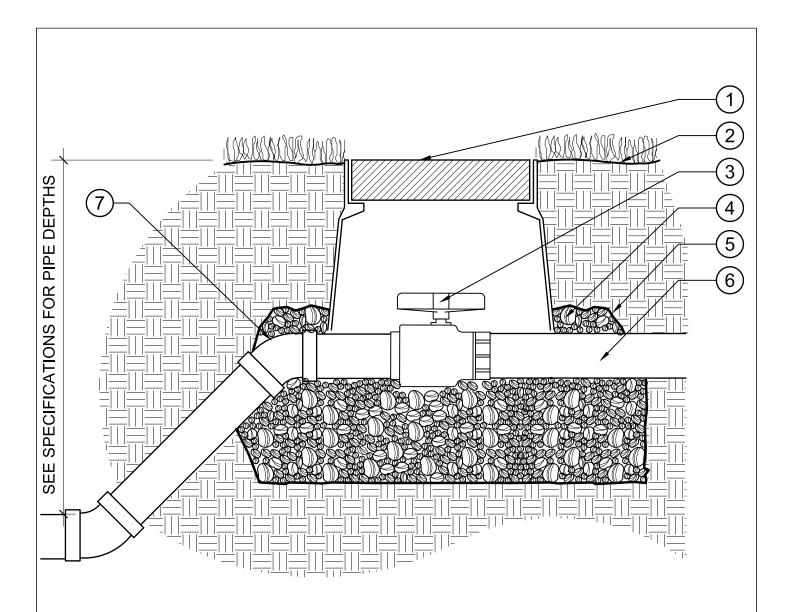


- (1) FINISH GRADE
- 2 10" ROUND VALVE BOX (SEE SPECIFICATIONS) (DO NOT CUT ADDITIONAL HOLES INTO BOX)
- 8" DIAMETER CL 160 PVC SLEEVE (TO REST ON TOP EDGE OF ISOLATION VALVE)
- 4 3/4" GRAVEL SUMP IN, UNDER AND AROUND VALVE BOX, FILL TO TOP OF VALVE BOX HOLES
- 5 INSTALL FILTER FABRIC AROUND GRAVEL SUMP
- 6 SELF RESTRAINED SPIGOT X BELL MAINLINE GATE VALVE
- 7 BELL X BELL X BELL DUCTILE IRON TEE
- (8) IRRIGATION PRESSURE SUPPLY LINE
- 9 SELF RESTRAINED BELL X BELL MAINLINE GATE VALVE

I . \ . \ //	RIVERSIDE COUNTY TLMA: PLANNING	AND TRANSPORTATION D	EPARTMENTS	DATE: 02-05-13
	GATE VALVE W/ JOINT	RESTRAINT		OF RIVERS
	FOR PIPE SIZES 4" AND GREATER	APPROVED BY: MPH	- T	
STD. I-032	1"=1'-0"	REV:	11/10	OFTATION DEST

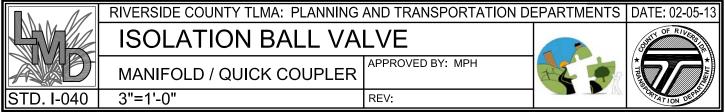


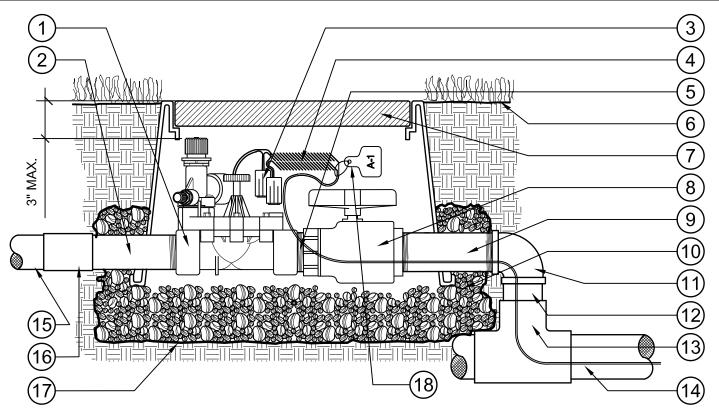




- 10" ROUND VALVE BOX (SEE SPECIFICATIONS) (DO NOT CUT ADDITIONAL HOLES INTO BOX)
- (2) FINISH GRADE
- (SEE SPECIFICATIONS)
- 4 3/4" GRAVEL SUMP IN, UNDER, AND AROUND VALVE BOX (FILL TO TOP OF VALVE BOX HOLES)

- 5 INSTALL FILTER FABRIC AROUND GRAVEL SUMP
- 6 PRESSURE SUPPLY LINE EXTENDED TO MANIFOLDS OR QUICK COUPLER
- 7 SLIP X SLIP 45 DEGREE ELL (2 REQUIRED)



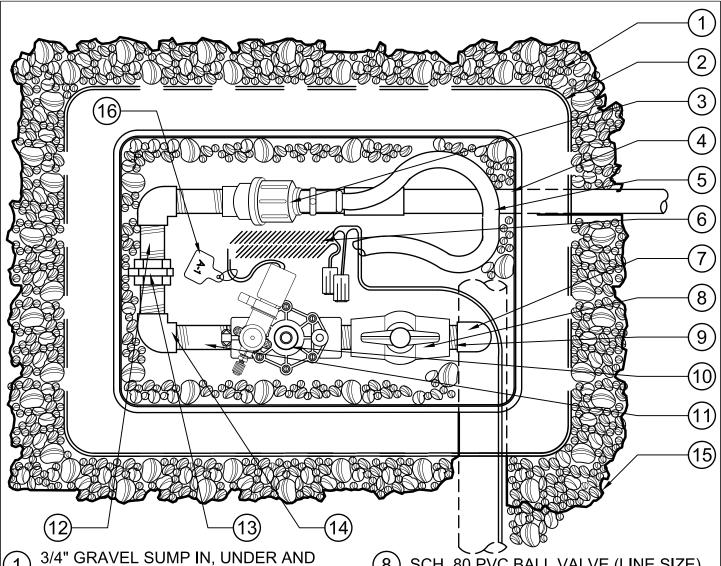


- (1) ELECTRIC CONTROL VALVE
- 6" LONG SCH. 80 TOE NIPPLE (LATERAL LINE SIZE)
- 3 CONNECT WIRES TO VALVE USING WATER TIGHT CONNECTORS (SEE SPECIFICATIONS)
- 4 USE 1/2" PVC SCRAP T WRAP 12" OF ADDITIONAL WIRE BEFORE CONNECTING
- (5) CLOSED NIPPLE (LINE SIZE)
- (6) FINISH GRADE
- RECTANGULAR VALVE BOX (SEE SPECIFICATIONS, DO NOT CUT ADDITIONAL HOLES INTO BOX)
- 8 PVC SCH 80 BALL VALVE (LINE SIZE)
- (9) 4" SCH 80 NIPPLE (LINE SIZE)

- 3/4" GRAVEL SUMP IN, UNDER AND AROUND VALVE BOX. FILL TO TOP OF VALVE BOX HOLES
- (11) SLIP X FIP ELL (LINE SIZE)
- 12 PVC PRESSURE SUPPLY LINE (CUT TO FIT MAXIMUM DIMENSION FROM TOP OF VALVE TO TOP OF LID)
- (LINE SIZE)
- PRESSURE SUPPLY LINE (SEE PLAN FOR SIZE)
- 15 (SEE PLAN FOR SIZE)
- (LATERAL LINE SIZE)
- 17 INSTALL FILTER FABRIC AROUND GRAVEL SUMP
- (18) VALVE IDENTIFICATION TAG

BALL VALVE TO BE USED ONLY IF IRRIGATION CONTROL VALVE IS INSTALLED AS A SINGLE VALVE AND NOT PART OF A MANIFOLD.

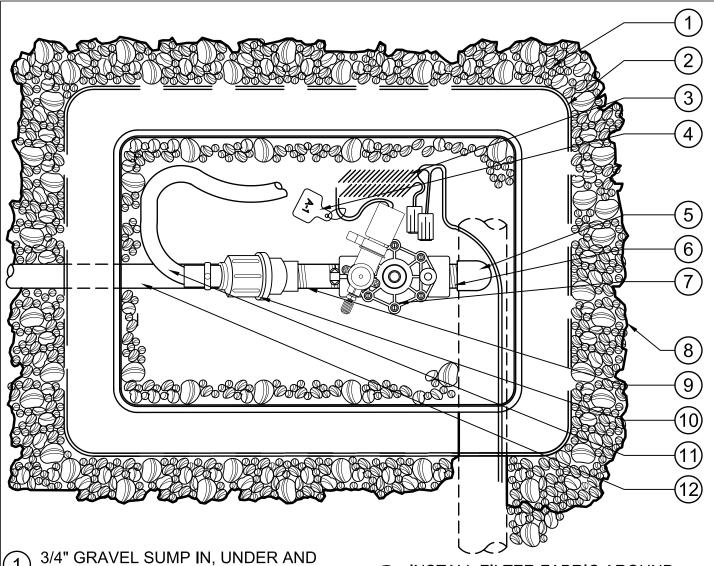
	RIVERSIDE COUNTY TLMA: PLANNING	AND TRANSPORTATION DI	EPARTMENTS	DATE: 02-05-13
	ELECTRIC CONTRO	L VALVE	ST OF RIVE	
	WITH BALL VALVE	APPROVED BY: MPH	12 De	* TANK
STD. I-041	1 1/2"=1'-0"	REV:	- 10	ORTATION DEPT



- 3/4" GRAVEL SUMP IN, UNDER AND AROUND VALVE BOX. FILL TO TOP OF VALVE BOX HOLES
- RECTANGULAR VALVE BOX (SEE SPECIFICATIONS, DO NOT CÙT ADDITIONAL HOLES INTO BOX)
- WYE STRAINER (SEE SPECIFICATIONS)
- PVC NON PRESSURE LATERAL LINE OR POLYETHYLENE TUBING (SEE SPECIFICATIONS)
- 18" LENGTH OF SCH. 40 FLEXIBLE PVC TUBING CONNECT TO FILTER
- USE 1/2" PVC SCRAP TO WRAP 12" OF ADDITIONAL WIRE BEFORE CONNECTING
- PVC SCH. 40 SLIP X FIPT ELL CONNECTING RISER FROM PVC PRESSURE SUPPLY LINE (16)

- SCH. 80 PVC BALL VALVE (LINE SIZE)
- **CLOSED NIPPLE (2 REQUIRED)**
- 1" ELECTRIC CONTROL VALVE (WITH PRESSURE REGULATING FEATURE, SEE SPECIFICATIONS)
- 2" SCH. 80 NIPPLE (2 REQUIRED)
- 1" SCH. 80 NIPPLE (2 REQUIRED)
- SCH. 80 PVC UNION (LINE SIZE)
- PVC SCH. 40 FIP X FIP ELL (2 REQUIRED)
- INSTALL FILTER FABRIC AROUND (15)**GRAVEL SUMP**
 - VALVE IDENTIFICATION TAG

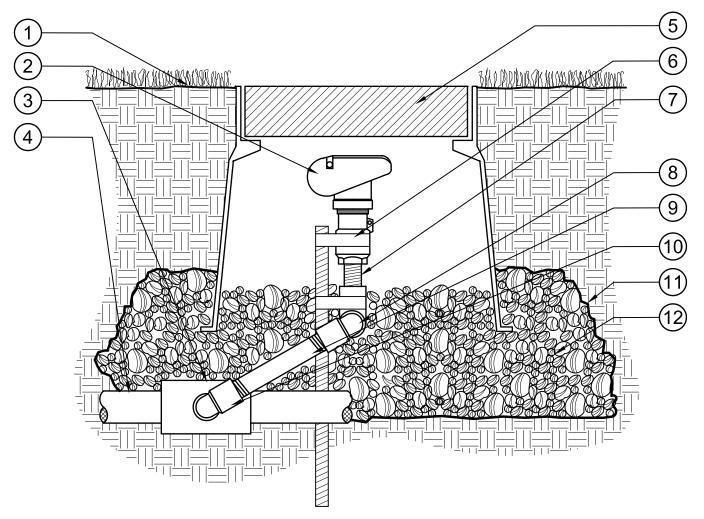
	RIVERSIDE COUNTY TLMA: PLANNING AND TRANSPORTATION DEPARTMENT				
	DRIP VALVE ASSEM	BLY - 1"		OF RIVERS	
	WITH BALL VALVE	APPROVED BY: MPH		* TRANS	
STD. I-042	3"=1'-0"	REV:	11/2	OPTATION DER	



- 3/4" GRAVEL SUMP IN, UNDER AND AROUND VALVE BOX. FILL TO TOP OF VALVE BOX HOLES
- RECTANGULAR VALVE BOX (SEE SPECIFICATIONS, DO NOT CUT ADDITIONAL HOLES INTO BOX)
- USE 1/2" PVC SCRAP TO WRAP 12" OF ADDITIONAL WIRE BEFORE CONNECTING
- (4) VALVE IDENTIFICATION TAG
- 5 PVC SCH. 40 SLIP X FIPT ELL CONNECTING RISER FROM PVC PRESSURE SUPPLY LINE
- (6) SCH. 80 CLOSED NIPPLE
- 7 ELECTRIC CONTROL VALVE (WITH PRESSURE REGULATING FEATURE, SEE SPECIFICATIONS)

- 8 INSTALL FILTER FABRIC AROUND GRAVEL SUMP
- 9 2" SCH. 80 NIPPLE (1 REQUIRED)
- (10) WYE STRAINER (SEE SPECIFICATIONS)
- 18" LENGTH OF SCH. 40 FLEXIBLE PVC TUBING CONNECT TO FILTER
 - PVC NON PRESSURE LATERAL LINE OR POLYETHYLENE TUBING (SEE SPECIFICATIONS)

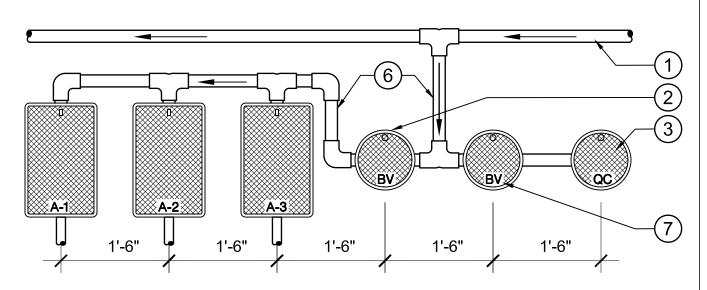
	RIVERSIDE COUNTY TLMA: PLANNING	DATE: 02-05-13		
	DRIP VALVE ASSEMBLY			OF RIVERS
	COMPACT	APPROVED BY: MPH	# 1 P	
STD. I-043	3"=1'-0"	REV:	11/8	ORTATION DERF



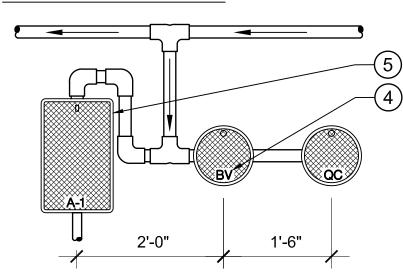
- 1) FINISH GRADE
- QUICK COUPLING VALVE (SEE LEGEND AND SPECIFICATIONS)
- (3) TEE IN PRESSURE SUPPLY LINE
- PRESSURE SUPPLY LINE (SEE PLAN FOR SIZE)
- 5 10" ROUND VALVE BOX (DO NOT CUT ADDITIONAL HOLES INTO BOX)
- 6 SCH. 40 GALV. 36" STAKE WITH (2) SPRINKLER TIES
- 7 PVC SCH. 80 THREADED NIPPLE (SIZE TO FIT)

- 8 1" MIPT X FIPT SCH 40 90 ELL (2 REQUIRED)
- (9) 1" X 8" SCH. 80 NIPPLE
- (10) 1" PVC. SCH. 40 STREET ELL
- 11 INSTALL FILTER FABRIC AROUND GRAVEL SUMP
- 12) 3/4" GRAVEL SUMP IN, UNDER AND AROUND VALVE BOX. FILL TO TOP OF VALVE BOX HOLES

	RIVERSIDE COUNTY TLMA: PLANNING	AND TRANSPORTATION DI	EPARTMENTS	DATE: 02-05-13
	QUICK COUPLING V	ALVE		OF RIVERS
		APPROVED BY: MPH		
STD. I-044	3"=1'-0"	REV:		ORTATION DERF



MULTIPLE VALVE MANIFOLD

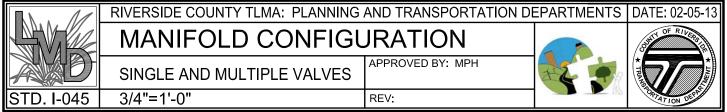


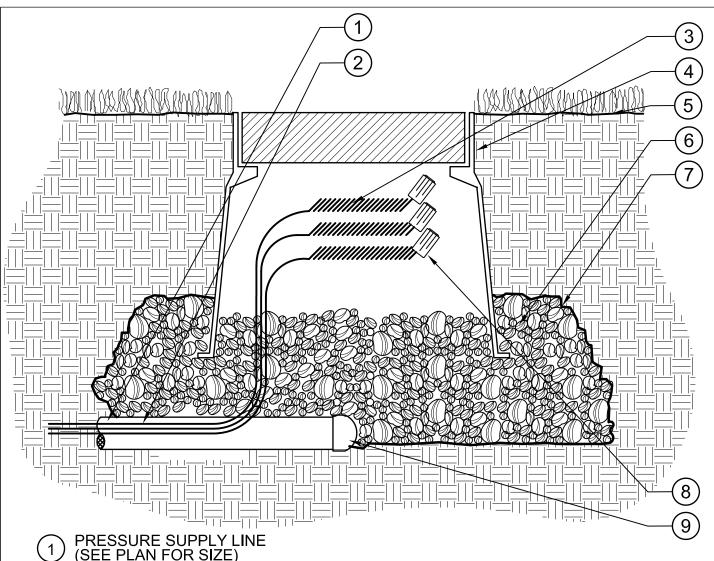
NOTE:

NO MORE THAN 5 ELECTRIC CONTROL VALVES ARE TO BE INSTALLED PER MANIFOLD. EACH MANIFOLD SHALL HAVE A MAXIMUM OF 15' SEPARATION. ALL MANIFOLDS ARE TO BE INSTALLED IN PLANTER AREAS WHENEVER POSSIBLE.

SINGLE VALVE MANIFOLD

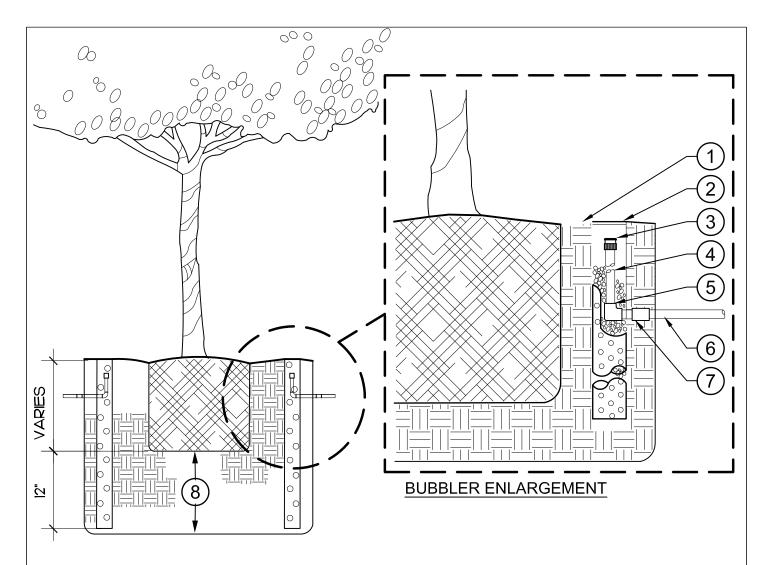
- 1 PRESSURE SUPPLY LINE (SEE PLAN FOR SIZE)
- 2 BALL VALVES TO MANIFOLD (SEE IRRIG. LEGEND AND DETAIL)
- QUICK COUPLER (SEE IRRIG. LEGEND AND DETAIL)
- 4 HEAT BRAND ALL VALVE BOXES PER SPECS
- 5 ELECTRIC CONTROL VALVE (SEE IRRIG. LEGEND AND VALVE DETAIL)
- 6 MANIFOLD PIPE SEE PLAN FOR SIZE (SHOWN AT SIDE FOR GRAPHIC CLARITY, LOCATE UNDERNEATH VALVE BOXES)
- 7 BALL VALVE AND SUPPLY LINE TO QUICK COUPLER (SIZE PER PLAN)





- 2 SPARE WIRES AND 1 COMMON WIRE (CONTINUOUS FROM CONTROLLER) (SEE SPECIFICATIONS FOR SIZE AND COLOR)
- USE 1/2" PVC SCRAP TO WRAP 24 " OF ADDITIONAL WIRE. LABEL ALL WIRES AS "SPARE"
- 10" ROUND VALVE BOX (INDEPENDENT FROM ALL OTHER BOXE'S)
- 5 **FINISH GRADE**
- 3/4" GRAVEL SUMP IN, UNDER AND AROUND VALVE BOX. FILL TO TOP OF VALVE BOX HOLES
- INSTALL FILTER FABRIC AROUND GRAVEL SUMP
- CAP WIRES WITH APPROVED WATERTIGHT 8 WIRE CONNECTOR (SEE SPECIFICATIONS)
- CAP PRESSURE SUPPLY LINE DIRECTLY BELOW CENTER OF SPARE WIRE VALVE BOX

	RIVERSIDE COUNTY TLMA: PLANNING	AND TRANSPORTATION DI	EPARTMENTS	DATE: 02-05-13
	SPARE WIRE BOX			OF RIVERS
		APPROVED BY: MPH	TE THE	
STD. I-046	3"=1'-0"	REV:	1/2	ORTATION DEOP



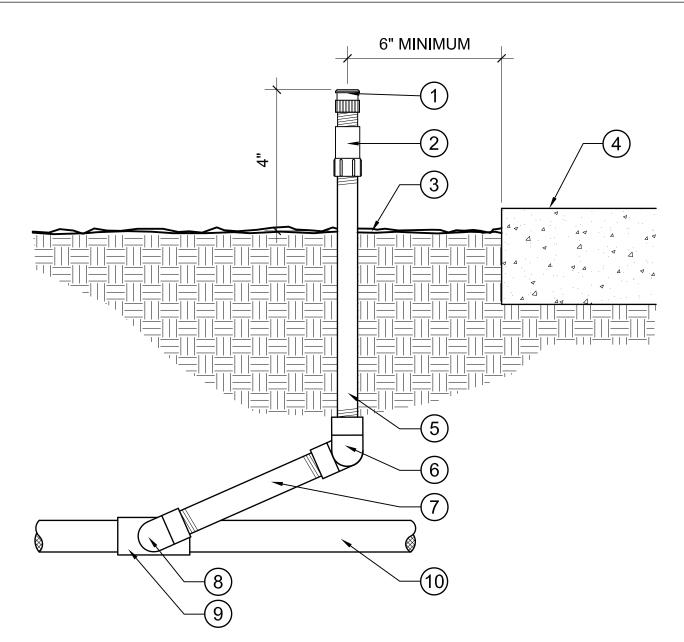
1) FINISH GRADE

- 8 TUBE DEPTH BELOW ROOT BALL 1'-0" (SEE PLANTING DETAIL FOR BALL HOLE DEPTH)
- SCH 40 PVC 4" PERFORATED RIGID PIPE WITH FILTER SOCK AND 4" NDS GREEN DRAINAGE GRATE CAP FASTEN CAP WITH A MINIMUM OF (3) STAINLESS STEEL SCREWS
- BUBBLER (SEE IRRIGATION LEGEND)
 INSTALL 1" MINIMUM BELOW DRAIN GRATE
- 1/2" MIPT X 1/2" MIPT SCH. 80 NIPPLE (LENGTH AS REQUIRED) (2 REQUIRED)
- 5 1/2" FIPT X 1/2" FIPT SCH. 40 90 DEGREE ELBOW
- 6 IRRIGATION LATERAL LINE (PER LEGEND AND SPECIFICATIONS)
- 7 1/2" FIPT X 1/2" SLIP SCH. 40 FEMALE ADAPTER

TREE BUBBLER SCHEDULE:

15 GALLON - 1 BUBBLER 24" BOX - 1 BUBBLER 36" BOX - 2 BUBBLERS 42" BOX - 2 BUBBLERS 48" BOX AND UP - 4 BUBBLERS

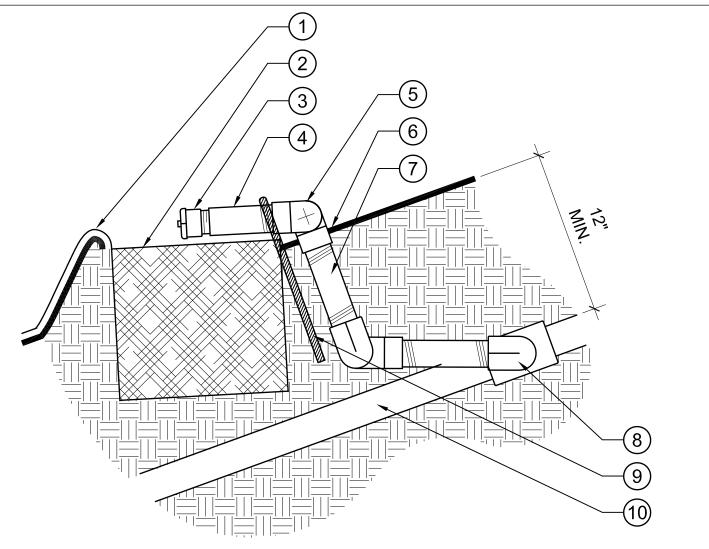
	RIVERSIDE COUNTY TLMA: PLANNING	AND TRANSPORTATION DI	EPARTMENTS	DATE: 02-05-13
	TREE WELL BUBBLE	R		OF RIVERS
	AND SCHEDULE	APPROVED BY: MPH	12 De	* I A S A S A S A S A S A S A S A S A S A
STD. I-050	N.T.S.	REV:		ORTATION DER



- 1 BUBBLER NOZZLE AND SCREEN (SEE LEGEND AND SPECIFICATIONS)
- 2 EXTERNAL CHECK VALVE (SEE SPECIFICATIONS)
- (3) FINISH GRADE
- 4 ADJACENT HARDSCAPE (IF APPLICABLE)
- 5 1/2" PVC SCH. 80 RISER (LENGTH VARIES)

- 6 1/2" FIPT x FIPT SCH. 40 90 DEGREE ELBOW (1 REQUIRED)
- (7) 1/2" x 8" PVC SCH. 80 NIPPLE
- 8 1/2" FIPT X MIPT SCH 40 90 DEGREE ELBOW (2 REQUIRED)
- 9 S x S x T TEE IN LATERAL LINE (LATERAL SIZE x 1/2" FIPT)
- 10 NON-PRESSURE LATERAL LINE (SIZE AS NOTED ON PLAN)

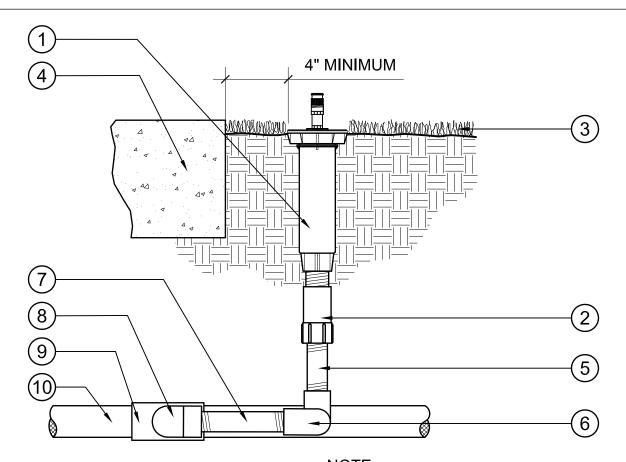




- 1. BUBBLER SHALL BE PLACED TO IRRIGATE DIRECTLY ADJACENT TO PLANT ROOTBALL.
- 2. PVC LATERAL SUPPLY LINES SHALL RUN PARALLEL TO SLOPE WITH BUBBLER LINES RUNNING PERPENDICULAR TO SLOPE AS SHOWN ABOVE.
- 3. ALL IRRIGATION SHALL BE COMPLETELY INSTALLED PRIOR TO PLANT LAYOUTS.
- (1) WATER BASIN INSTALLED AROUND PLANTING PIT
- 2 ROOTBALL OF SHRUB GROUNDCOVER OR TREE
- (3) BUBBLER NOZZLE
- (4) 1/2" X 6" SCH. 80 PVC NIPPLE
- 5 1/2" FIPT T X T SCH. 40 ELBOW AND (2 REQUIRED)

- (6) FINISH GRADE ON SLOPE
- 7 1/2" x 8" PVC SCH. 80 NIPPLE (2 REQUIRED)
- 8 SCH. 40 1/2" STREET ELBOW T X T (3 REQUIRED)
- 9 #4 X 18" VINYL COATED REBAR "J" HOOK
- (10) NON-PRESSURE LATERAL LINE

	RIVERSIDE COUNTY TLMA: PLANNING	AND TRANSPORTATION DI	EPARTMENTS	DATE: 02-05-13
	BUBBLER NOZZLE FOR T		OF RIVERS	
	WITH STEEL "J" HOOK	APPROVED BY: MPH	1	* TANK
STD. I-052	3"=1'-0"	REV:	11/2	ORTATION DERT

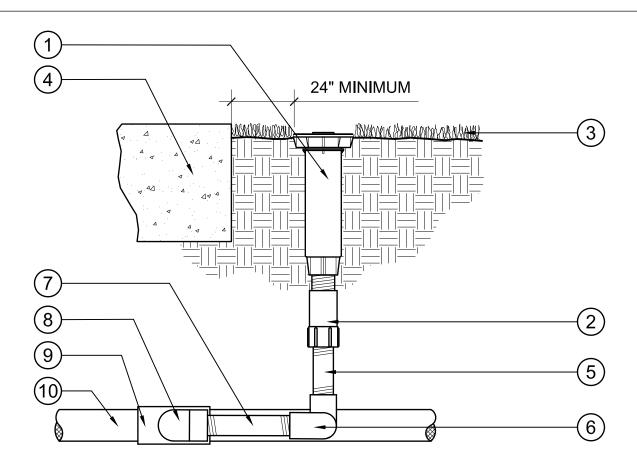


INSTALL EXTERNAL CHECK VALVES ON ALL SPRAYHEADS THAT ARE GREATER THAN 8 VERTICAL FEET IN ELEVATION LOWER THAN THE HIGHEST POINT ON THE COMBINED NON-PRESSURE LATERAL LINE FOR THE ENTIRE ZONE.

- 1 POP-UP BUBBLER (SEE SPECIFICATIONS)
- 2 EXTERNAL CHECK VALVE (SEE SPECIFICATIONS)
- (3) FINISH GRADE
- 4 ADJACENT HARDSCAPE (IF APPLICABLE)
- 5 1/2" x 2" SCH. 80 NIPPLE (1 REQUIRED)

- 6 1/2" FIPT x FIPT SCH. 40 90 DEGREE ELBOW (1 REQUIRED)
- 7) 1/2" x 8" PVC SCH. 80 NIPPLE
- 8 1/2" FIPT X MIPT SCH 40 90 DEGREE ELBOW (2 REQUIRED)
- 9 S x S x T TEE IN LATERAL LINE (LATERAL SIZE x 1/2" FIPT)
- 10 NON-PRESSURE LATERAL LINE (SIZE AS NOTED ON PLAN)

	RIVERSIDE COUNTY TLMA: PLANNING	AND TRANSPORTATION DI	EPARTMENTS	DATE: 02-05-13
	6" POP-UP BUBBLER			OF RIVERS
	WITH EXTERNAL CHECK VALVE	APPROVED BY: MPH		* Iday
STD. I-053	3"=1'-0"	REV:	11/2	TOPTATION DEPT

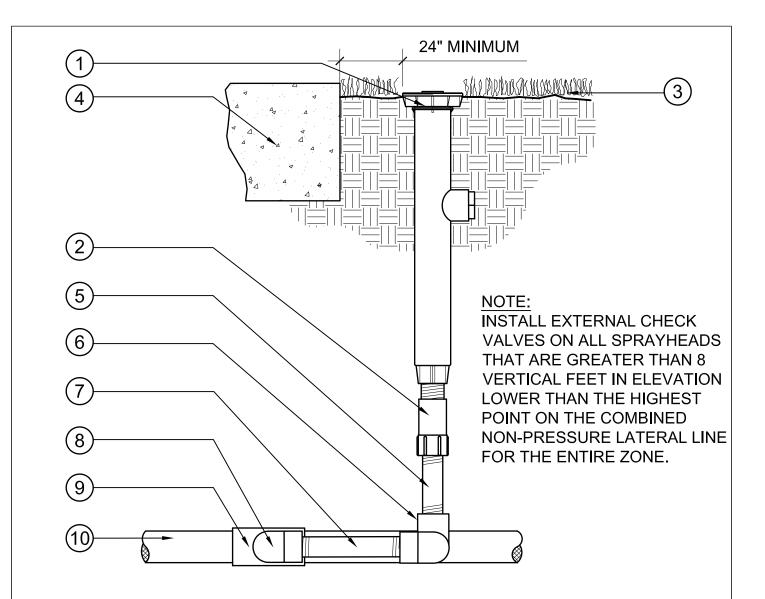


INSTALL EXTERNAL CHECK VALVES ON ALL SPRAYHEADS THAT ARE GREATER THAN 8 VERTICAL FEET IN ELEVATION LOWER THAN THE HIGHEST POINT ON THE COMBINED NON-PRESSURE LATERAL LINE FOR THE ENTIRE ZONE.

- 1 POP-UP SPRAY HEAD (SEE SPECIFICATIONS)
- 2 EXTERNAL CHECK VALVE (SEE SPECIFICATIONS)
- (3) FINISH GRADE
- 4 ADJACENT HARDSCAPE (IF APPLICABLE)
- 5 1/2" x 2" SCH. 80 NIPPLE (1 REQUIRED)

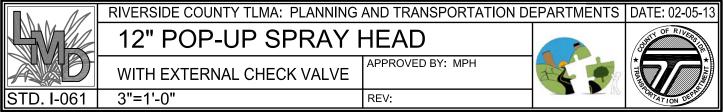
- 6 1/2" FIPT x FIPT SCH. 40 90 DEGREE ELBOW (1 REQUIRED)
- (7) 1/2" x 8" PVC SCH. 80 NIPPLE
- 8 1/2" FIPT X MIPT SCH 40 90 DEGREE ELBOW (2 REQUIRED)
- 9 S x S x T TEE IN LATERAL LINE (LATERAL SIZE x 1/2" FIPT)
- 10 NON-PRESSURE LATERAL LINE (SIZE AS NOTED ON PLAN)

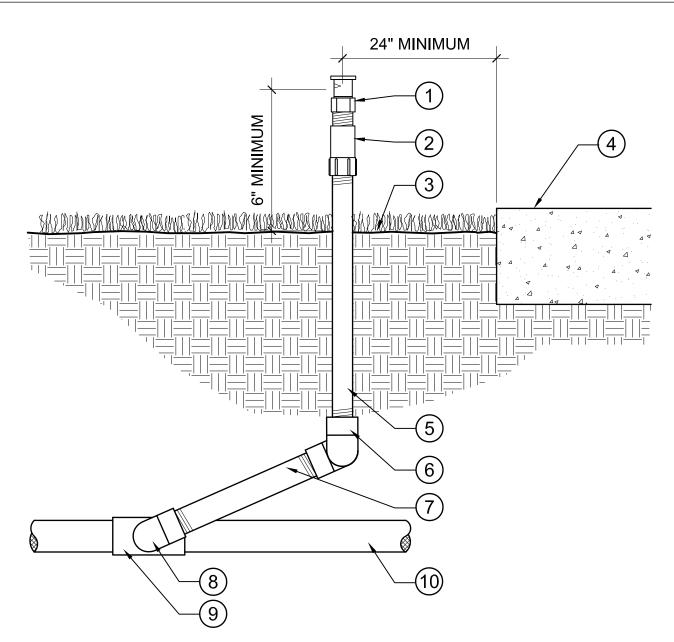




- 1 POP-UP SPRAY HEAD (SEE SPECIFICATIONS)
- 2 EXTERNAL CHECK VALVE (SEE SPECIFICATIONS)
- (3) FINISH GRADE
- 4 ADJACENT HARDSCAPE (IF APPLICABLE)
- 5 1/2" x 2" SCH. 80 NIPPLE (1 REQUIRED)

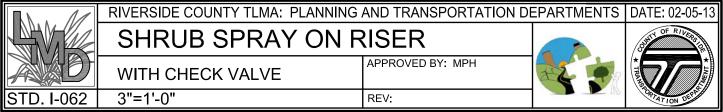
- 6 1/2" FIPT x FIPT SCH. 40 90 DEGREE ELBOW (1 REQUIRED)
- 7) 1/2" x 8" PVC SCH. 80 NIPPLE
- 8 1/2" FIPT X MIPT SCH. 40 90 DEGREE ELBOW (2 REQUIRED)
- 9 S x S x T TEE IN LATERAL LINE (LATERAL SIZE x 1/2" FIPT)
- 10 NON-PRESSURE LATERAL LINE (SIZE AS NOTED ON PLAN)

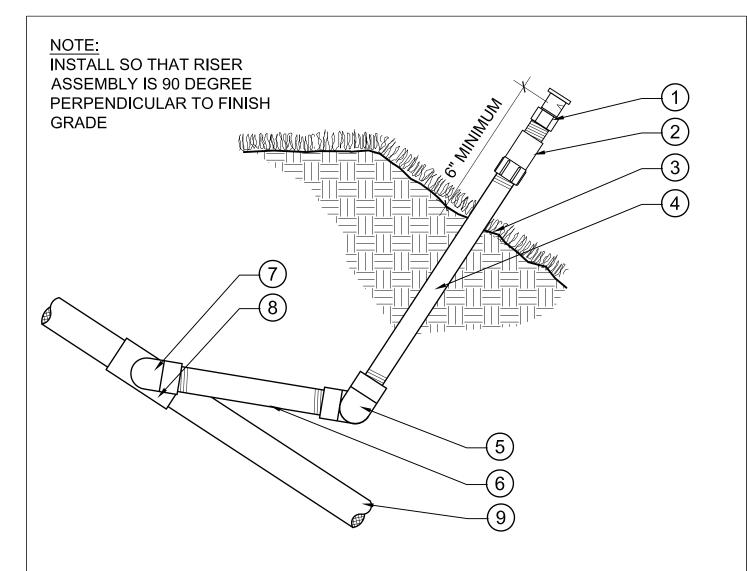




- SHRUB SPRAY NOZZLE AND SCREEN (SEE SPECIFICATIONS)
- 2 EXTERNAL CHECK VALVE (SEE SPECIFICATIONS)
- (3) FINISH GRADE
- 4 ADJACENT HARDSCAPE (IF APPLICABLE)
- 5 1/2" PVC SCH. 80 RISER (LENGTH VARIES)

- 6 1/2" FIPT x FIPT SCH. 40 90 DEGREE ELBOW (1 REQUIRED)
- (7) 1/2" x 8" PVC SCH. 80 NIPPLE
- 8 1/2" FIPT X MIPT SCH 40 90 DEGREE ELBOW (2 REQUIRED)
- 9 S x S x T TEE IN LATERAL LINE (LATERAL SIZE x 1/2" FIPT)
- 10 NON-PRESSURE LATERAL LINE (SIZE AS NOTED ON PLAN)

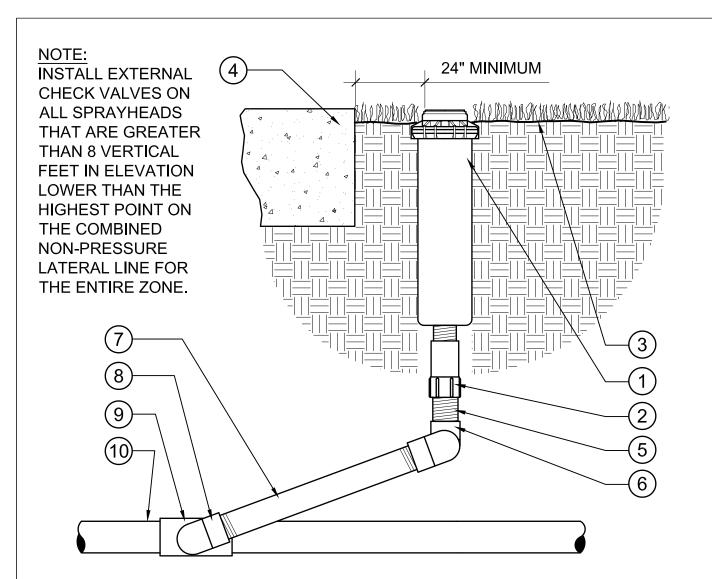




- 1 SHRUB SPRAY NOZZLE AND SCREEN (SEE SPECIFICATIONS)
- 2 EXTERNAL CHECK VALVE (SEE SPECIFICATIONS)
- (3) FINISH GRADE
- 1/2" PVC UV RESISTANT SCH. 80 RISER (LENGTH VARIES)
- 5 1/2" FIPT x FIPT SCH. 40 90 DEGREE ELBOW (1 REQUIRED)

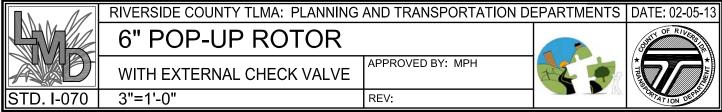
- (6) 1/2" x 8" PVC SCH. 80 NIPPLE
- 7 1/2" FIPT X MIPT SCH. 40 90 DEGREE ELBOW (2 REQUIRED)
- 8 S x S x T TEE IN LATERAL LINE (LATERAL SIZE x 1/2" FIPT)
- 9 NON-PRESSURE LATERAL LINE (SIZE AS NOTED ON PLAN)

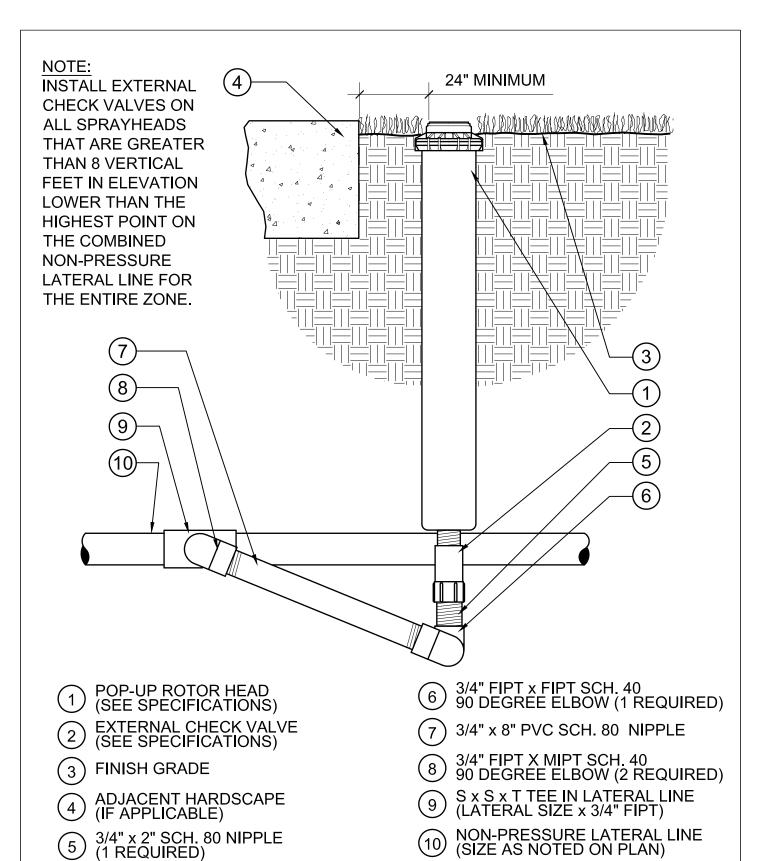
	RIVERSIDE COUNTY TLMA: PLANNING	AND TRANSPORTATION DE	EPARTMENTS	DATE: 02-05-13
	SHRUB SPRAY ON RISI	ER (ON SLOPE)		OF RIVERS
	WITH CHECK VALVE	APPROVED BY: MPH	1	* TANK
STD. I-063	3"=1'-0"	REV:	11/2	OPTATION DERF



- 1 POP-UP ROTOR HEAD (SEE SPECIFICATIONS)
- 2 EXTERNAL CHECK VALVE (SEE SPECIFICATIONS)
- (3) FINISH GRADE
- 4 ADJACENT HARDSCAPE (IF APPLICABLE)
- 5 3/4" x 2" SCH. 80 NIPPLE (1 REQUIRED)

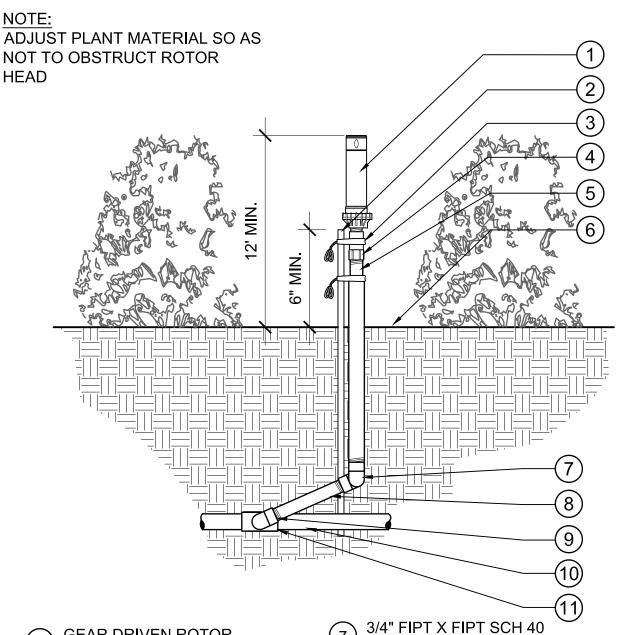
- 6 3/4" FIPT x FIPT SCH. 40 90 DEGREE ELBOW (1 REQUIRED)
- (7) 3/4" x 8" PVC SCH. 80 NIPPLE
- 8 3/4" FIPT X MIPT SCH. 40 90 DEGREE ELBOW (2 REQUIRED)
- 9 S x S x T TEE IN LATERAL LINE (LATERAL SIZE x 3/4" FIPT)
- 10 NON-PRESSURE LATERAL LINE (SIZE AS NOTED ON PLAN)





RIVERSIDE COUNTY TLMA: PLANNING AND TRANSPORTATION DEPARTMENTS				
	12" POP-UP ROTOR			OF RIVERS
	WITH EXTERNAL CHECK VALVE	APPROVED BY: MPH		
STD. I-071	3"=1'-0"	REV:		TOPTATION DERV

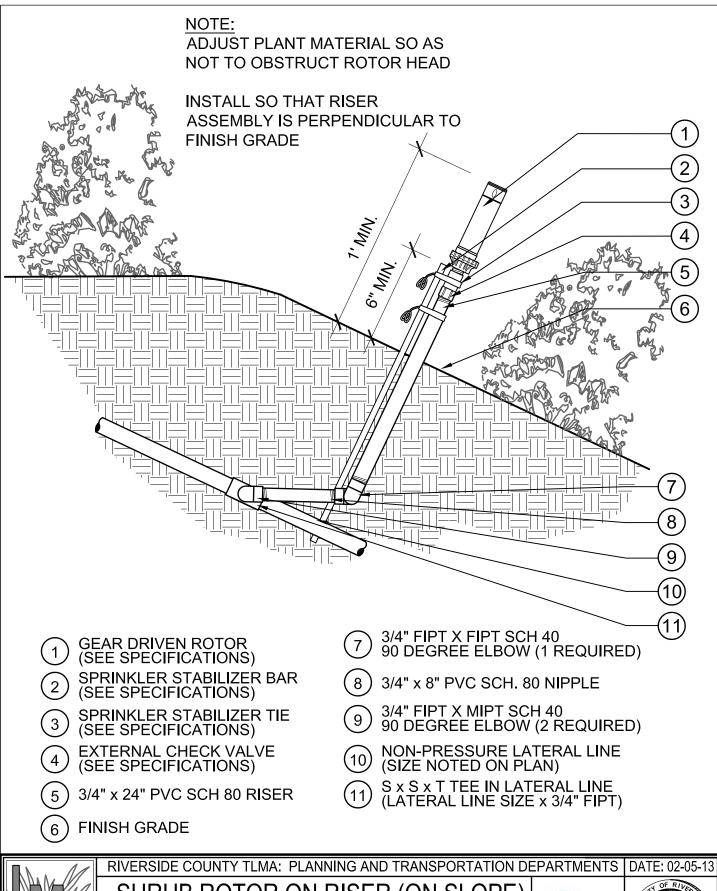
(SIZE AS NOTED ON PLAN)

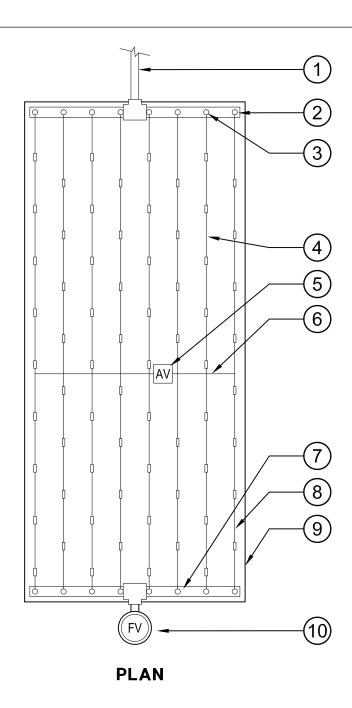


- **GEAR DRIVEN ROTOR** (SEE SPECIFICATIONS)
- SPRINKLER STABILIZER BAR (SEE SPECIFICATIONS)
- SPRINKLER STABILIZER TIE (SEE SPECIFICATIONS)
- EXTERNAL CHECK VALVE (SEE SPECIFICATIONS)
- 3/4" x 24" PVC SCH. 80 RISER
- FINISH GRADE 6

- 3/4" FIPT X FIPT SCH 40 90 DEGREE ELBOW (1 REQUIRED)
- 3/4" x 8" PVC SCH. 80 NIPPLE
- 3/4" FIPT X MIPT SCH 40 90 DEGREE ELBOW (2 REQUIRED)
- NON-PRESSURE LATERAL LINE (SIZE NOTED ON PLAN) 10
- S x S x T TEE IN LATERAL LINE (LATERAL LINE SIZE x 3/4" FIPT) 11

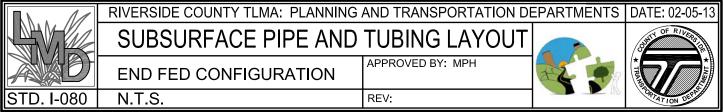
	RIVERSIDE COUNTY TLMA: PLANNING	AND TRANSPORTATION DI	EPARTMENTS	DATE: 02-05-13
	SHRUB ROTOR ON RISER			OF RIVERS
	WITH CHECK VALVE	APPROVED BY: MPH	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	* In the second
STD. I-072	1 1/2"=1'-0"	REV:	11/2	ORTATION DERE

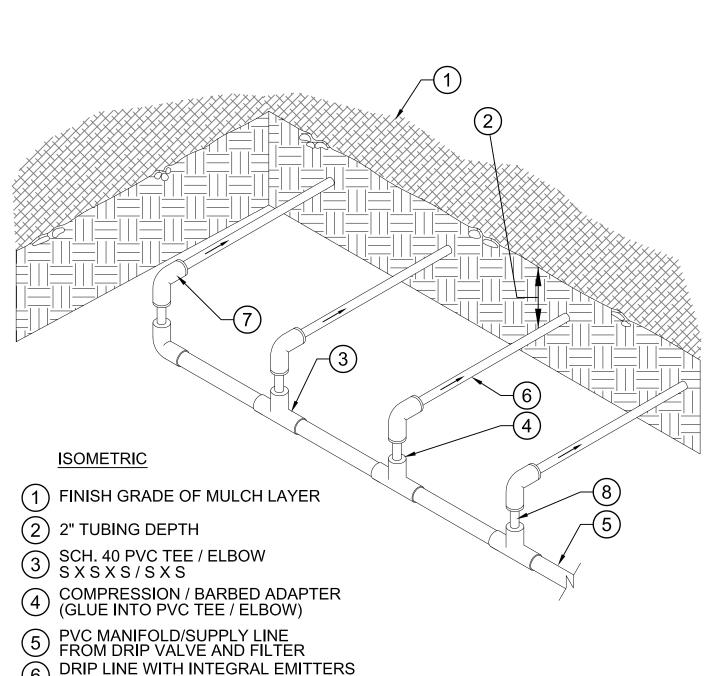




- 1 PVC LATERAL LINE FROM ELECTRIC CONTROL VALVE
- 2) PVC SUPPLY MANIFOLD
- (3) MANIFOLD TO ELBOW CONNECTION
- (4) DRIP LINE LATERAL
- 5 AIR/VACUUM RELIEF VALVE AT EACH HIGH POINT
- (6) AIR/VACUUM RELIEF LATERAL
- (7) PVC FLUSH MANIFOLD
- 8 PERIMETER LATERALS 12" FROM EDGE
- (9) HARDSCAPE EDGE
- 10 AUTOMATIC FLUSH VALVE PLUMBED TO FLUSH AT LOW POINT

- INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- 2. THE TOTAL LENGTH OF ALL INTERCONNECTED DRIP LINE SHALL NOT EXCEED THE MAXIMUM RUN LENGTH.

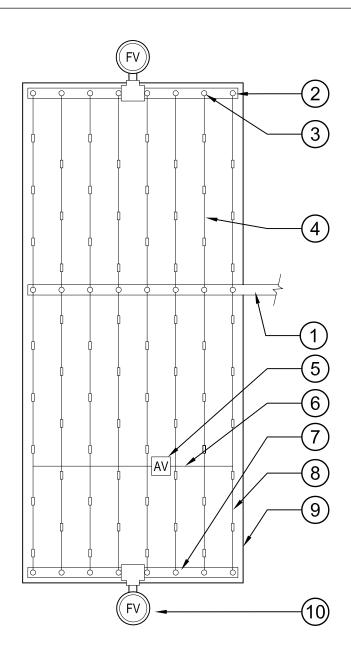




- DRIP LINE WITH INTEGRAL EMITTERS 2" BELOW FINISH GRADE OF TOP SOIL
- COMPRESSION / BARBED ELBOW
- **DRIP LINE**

INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

	RIVERSIDE COUNTY TLMA: PLANNING	AND TRANSPORTATION DI	EPARTMENTS	DATE: 02-05-13
	SUBSURFACE PIPE AND T	UBING MANIFOLD		OF RIVERS
	END FED CONFIGURATION	APPROVED BY: MPH	1	* TANK
STD. I-081	N.T.S.	REV:	11/2	ORTATION DERV



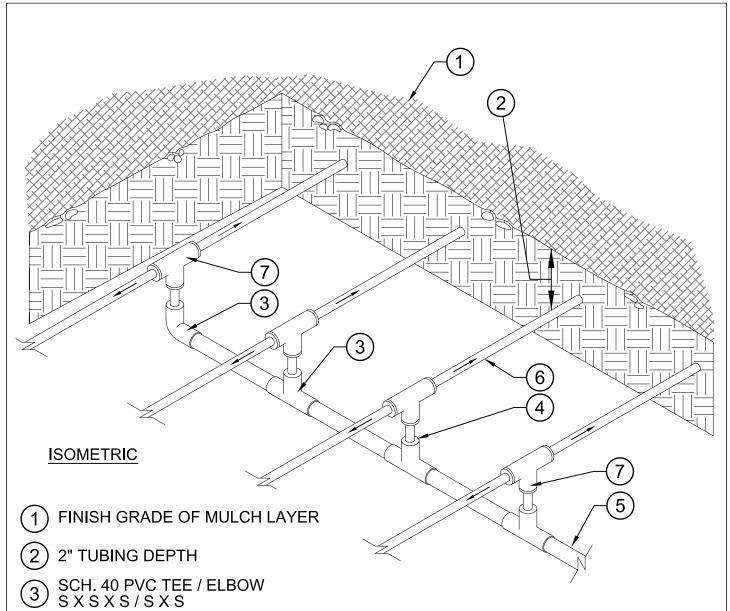
- 1 PVC LATERAL LINE FROM ELECTRIC CONTROL VALVE
- (2) PVC EXHAUST
- (3) MANIFOLD TO ELBOW CONNECTION
- (4) DRIP LINE LATERAL
- AIR/VACUUM RELIEF VALVE AT EACH HIGH POINT
- (6) AIR/VACUUM RELIEF LATERAL
- (7) PVC FLUSH MANIFOLD
- 8 PERIMETER LATERALS 12" FROM EDGE
- (9) HARDSCAPE EDGE
- 10 AUTOMATIC FLUSH VALVE PLUMBED TO FLUSH AT LOW POINT

PLAN

NOTES:

- 1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- 2. THE TOTAL LENGTH OF ALL INTERCONNECTED DRIP LINE SHALL NOT EXCEED THE MAXIMUM RUN LENGTH.

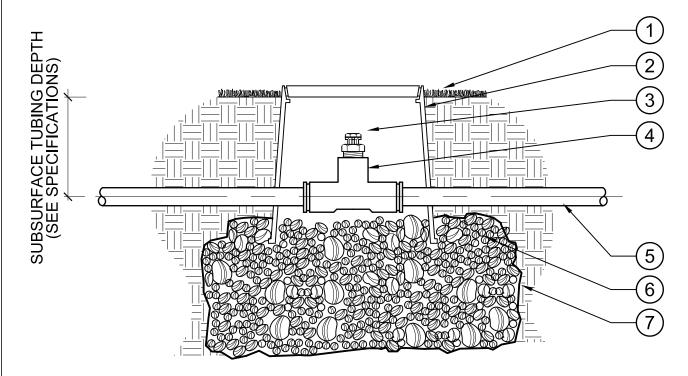
	RIVERSIDE COUNTY TLMA: PLANNING	AND TRANSPORTATION DI	EPARTMENTS	DATE: 02-05-13
	SUBSURFACE PIPE AND	TUBING LAYOUT		OF RIVERS
	CENTER FED CONFIGURATION	APPROVED BY: MPH	1	
STD. I-082	N.T.S.	REV:	11/2	ORTATION DERV



- COMPRESSION / BARBED ADAPTER (GLUE INTO PVC TEE / ELBOW)
- 5 PVC MANIFOLD/SUPPLY LINE FROM DRIP VALVE AND FILTER
- 6 DRIP LINE WITH INTEGRAL EMITTERS 2" BELOW FINISH GRADE OF TOP SOIL
- (7) COMPRESSION / BARBED TEE

INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

	RIVERSIDE COUNTY TLMA: PLANNING	AND TRANSPORTATION DI	EPARTMENTS	DATE: 02-05-13
	SUBSURFACE PIPE AND T	UBING MANIFOLD		OF RIVERS
	CENTER FED CONFIGURATION	APPROVED BY: MPH	1	
STD. I-083	N.T.S.	REV:	11/2	TOPTATION DERV

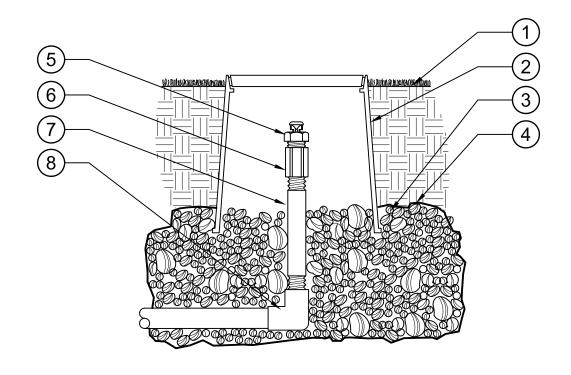


- (1) FINISH GRADE
- 6" ROUND PLASTIC VALVE BOX HEAT BRAND "AR" ON THE LID IN 1" TALL LETTERS
- AIR VACUUM RELIEF VALVE (SEE SPECIFICATIONS)
- (4) PVC SCH. 40 COMP X 1/2" FIPT X COMP TEE
- 5 SUBSURFACE TUBING (SEE SPECIFICATIONS)
- 6 3/4" GRAVEL SUMP IN, UNDER AND AROUND VALVE BOX. FILL TO TOP OF VALVE BOX HOLES
- 7 INSTALL FILTER FABRIC AROUND GRAVEL SUMP

NOTE:

LOCATE AIR/VACUUM RELIEF VALVES AT ALL HIGH POINTS IN SUB SURFACE TUBING SYSTEMS

	RIVERSIDE COUNTY TLMA: PLANNING	AND TRANSPORTATION DI	EPARTMENTS	DATE: 02-05-13
	AIR / VACUUM RELIEF VALVE			OF RIVERS
	ON SUBSURFACE TUBING	APPROVED BY: MPH	The state of the s	* Table 1
STD. I-084	3"=1'-0"	REV:		ORTATION DEEP

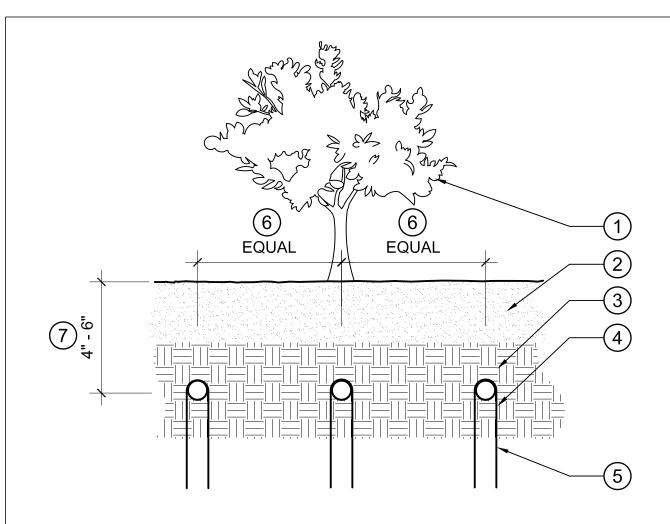


- 1 FINISH GRADE (REFER TO PLANTING PLANS AND SPECIFICATIONS)
- 6" ROUND PLASTIC VALVE BOX HEAT BRAND "AR" ON THE LID IN 1" TALL LETTERS
- 3/4" GRAVEL SUMP IN, UNDER AND AROUND VALVE BOX (FILL TO TOP OF HOLES)
- 4 INSTALL FILTER FABRIC AROUND GRAVEL SUMP
- 5 AIR/VACUUM RELIEF VALVE WITH 1/2" MIPT
- 6 1/2" T X T SCH. 40 PVC COUPLER
- 7 1/2" SCH. 80 PVC NIPPLE SIZE AS NEEDED
- 8 LATERAL LINE SIZE X 1/2" FIPT 90 DEGREE ELBOW

NOTE:

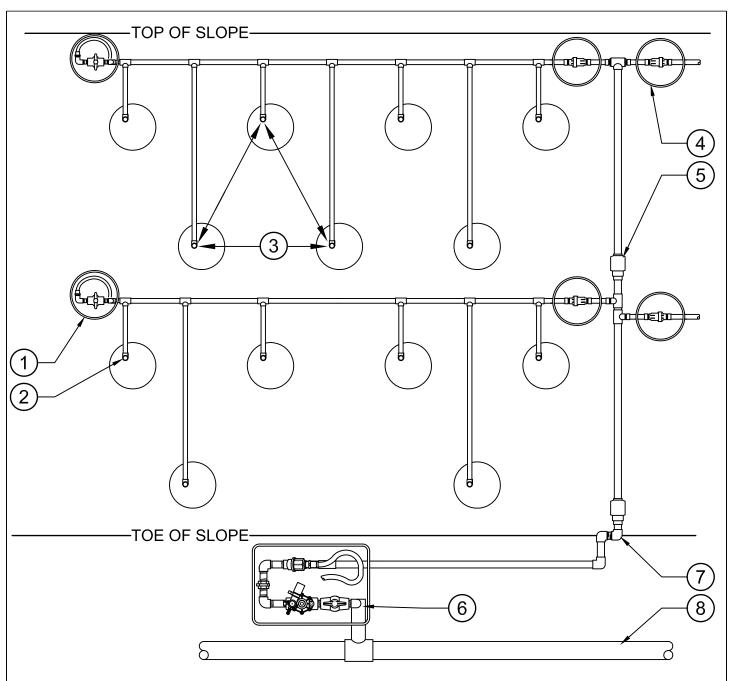
USE ONE AIR/VACUUM RELIEF VALVE PER EVERY 7 GPM ON EACH ZONE. REFER TO MANUFACTURER'S SPECIFICATIONS.

	RIVERSIDE COUNTY TLMA: PLANNING	AND TRANSPORTATION DI	EPARTMENTS	DATE: 02-05-13
	AIR / VACUUM RELIE	EF VALVE		OF RIVERS
	ON PVC	APPROVED BY: MPH		* I A
STD. I-085	1 1/2"=1'-0"	REV:	11/0	ONTATION DER



- 1 SHRUB OR GROUNDCOVER (TYPICAL, SEE PLANTING DETAILS)
- (2) 2" 4" BARK MULCH LAYER
- 3 AMENDED SOIL MIX (REFER TO PLANTING SPECIFICATIONS)
- 4 SUB-SURFACE TUBING, BURIED INTO SOIL MIN. 2" (REFER TO IRRIGATION LEGEND)
- 5 TUBING STAKE (SEE SPECIFICATIONS FOR SPACING AND MODEL NUMBER)
- 6 TUBING SPACING VARIES 12" 18" ON CENTER BASED ON EMITTER SPACING
- 7 TUBING DEPTH VARIES 4"-6" PER MANUFACTURER'S GUIDELINES

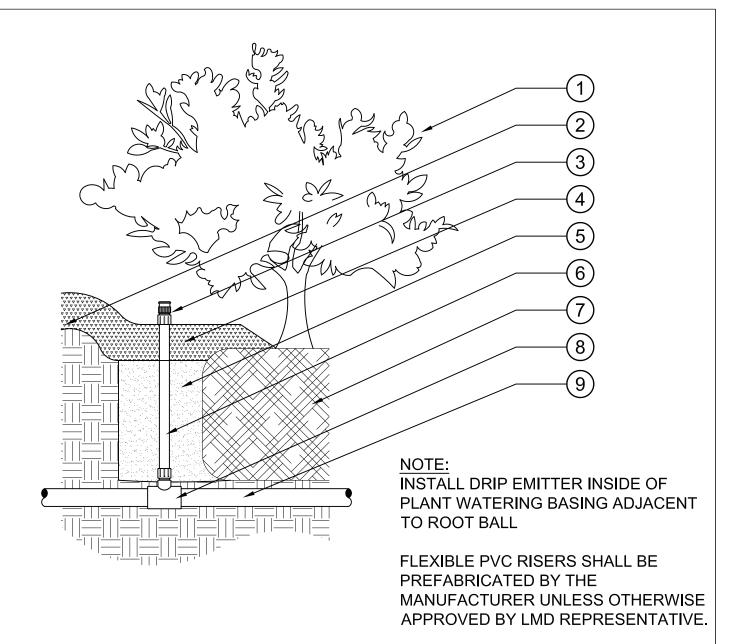
	RIVERSIDE COUNTY TLMA: PLANNING	AND TRANSPORTATION DI	EPARTMENTS	DATE: 02-05-13
	SUBSURFACE TUBING SPA	CING AND DEPTH		OF RIVERS
		APPROVED BY: MPH	# P	* TRANT
STD. I-086	1 1/2"=1'-0"	REV:		OFTATION DERV



- MANUAL FLUSH VALVE ASSEMBLY (SEE DETAIL)
- 2 EMITTER ON FLEXIBLE RISER (SEE DETAIL)
- 3 SHRUB SPACING (VARIES SEE PLANTING PLANS)
- 4) PRESSURE REGULATOR

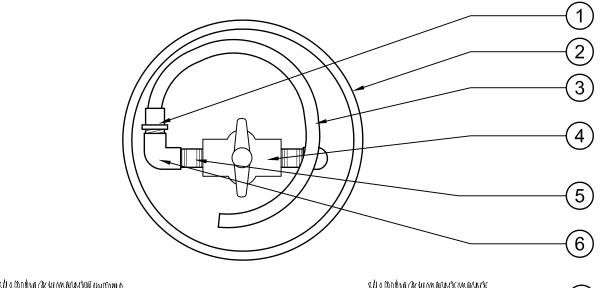
- (5) CHECK VALVE
- 6 DRIP VALVE ASSEMBLY (SEE DETAIL)
- 7 SWING ASSEMBLY FOR SLOPE TRANSITION (IF APPLICABLE)
- (8) IRRIGATION PRESSURE SUPPLY LINE

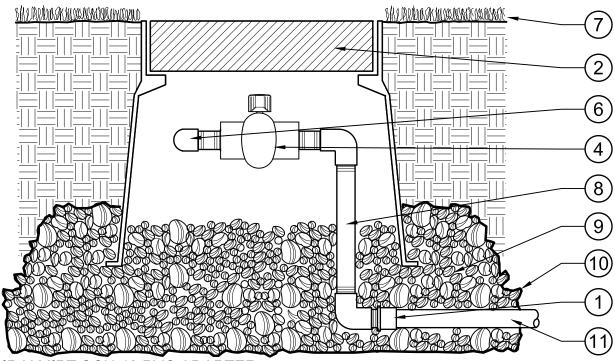
	RIVERSIDE COUNTY TLMA: PLANNING	AND TRANSPORTATION DI	EPARTMENTS	DATE: 02-05-13
	POINT TO POINT IRF	RIGATION		OF RIVERS
	WITH BELOW GRADE LATERALS	APPROVED BY: MPH	12 De	* TAME
STD. I-090	N.T.S.	REV:	- 10	ORTATION DERN



- (1) SHRUB OR GROUNDCOVER
- 2) PLANT WATERING BASIN
- 3 EMITTER NOZZLE AND SCREEN SEE SPECIFICATIONS
- (4) MULCH PER PLANTING DETAILS
- 5) AMENDED BACKFILL
- (6) 1/2" x 12" FLEXIBLE PVC RISER
- (7) PLANT ROOT BALL
- 8 SCH 40 S x S x T TEE (OR ELBOW) (LATERAL SIZE x 1/2" FIPT)
- (9) PURPLE LATERAL LINE



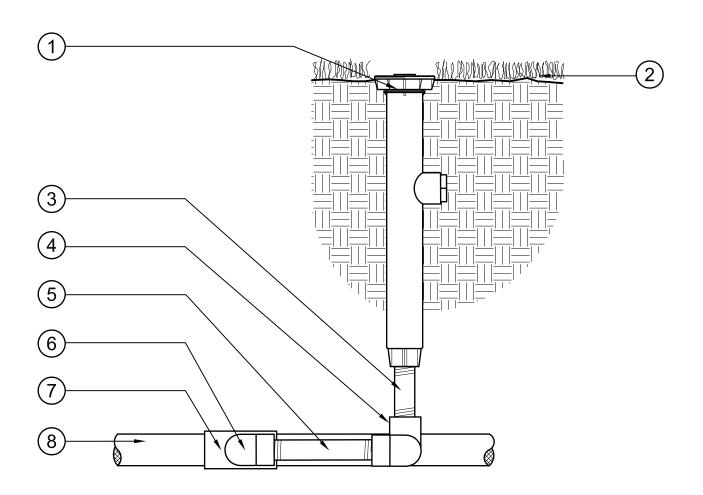




- SLIP X MIPT SCH 40 PVC ADAPTER (2 REQUIRED)
- 2 10" ROUND VALVE BOX (SEE SPECIFICATIONS, DO NOT CUT ADDITIONAL HOLES INTO BOX)
- 3 18" LENGTH OF SCH. 40 FLEXIBLE PVC TUBING FOR FLUSHING OUTSIDE OF BOX
- 4 SCH. 40 PVC BALL VALVE (LINE SIZE)
- (5) CLOSED NIPPLE (2 REQUIRED)

- 6 PVC SCH. 40 FIPT X FIPT ELL (3 REQUIRED)
- (7) FINISH GRADE
- (8) 8 " PVC SCH. 80 RISER
- 9 3/4" GRAVEL SUMP IN, UNDER AND AROUND VALVE BOX (FILL TO TOP OF HOLES)
- 10 INSTALL FILTER FABRIC AROUND GRAVEL SUMP
- DRIP TUBING AND/OR LATERAL LINE (SEE SPECIFICATIONS)





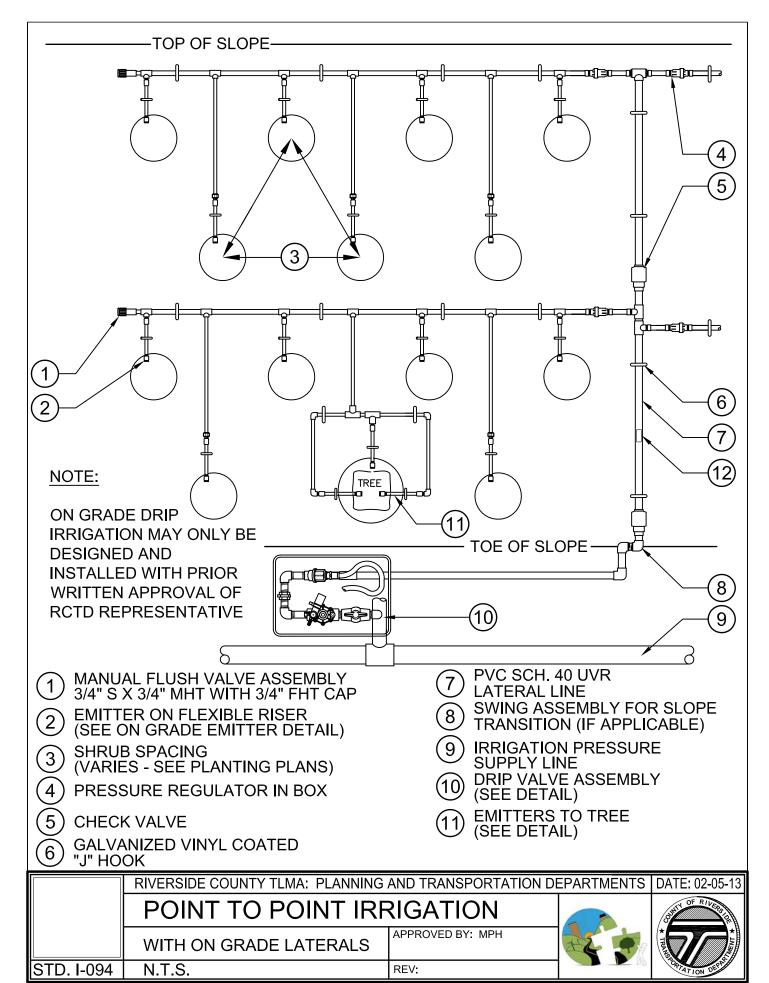
- 12" POP-UP SPRAY HEAD (SEE SPECIFICATIONS) INSTALL (1) ONE VAN NOZZLE PER STANDARD PRODUCTS LIST, AND ADJUST TO CLOSED POSITION.
- (2) FINISH GRADE
- 3 1/2" x 2" SCH. 80 NIPPLE (1 REQUIRED)
- 4 1/2" FIPT x FIPT SCH. 40 90 DEGREE ELBOW (1 REQUIRED)

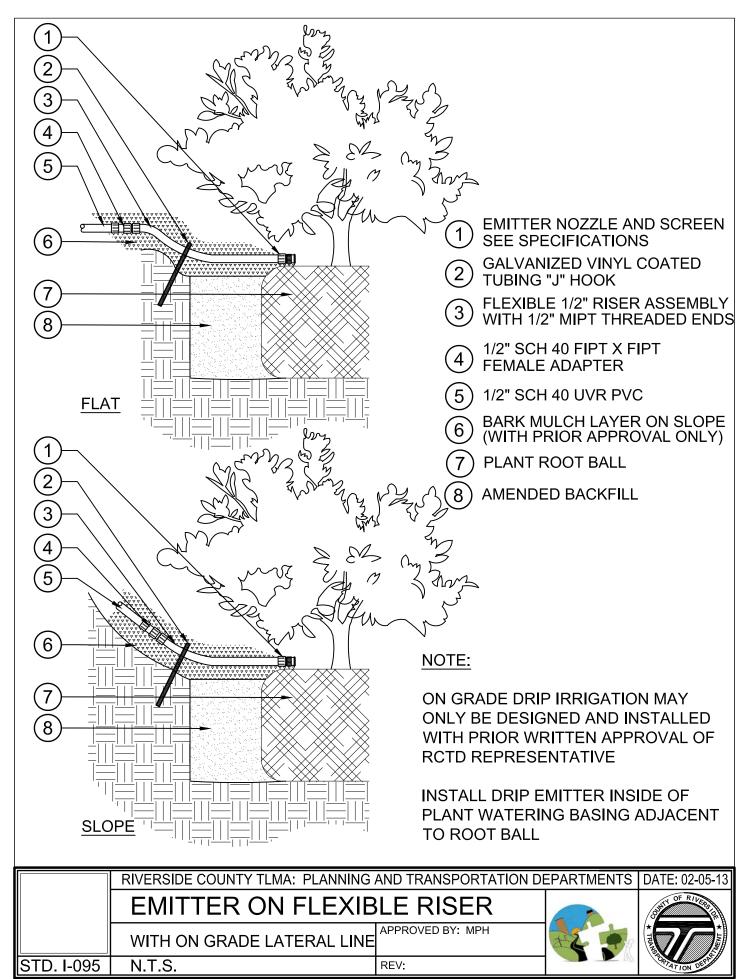
- (5) 1/2" x 8" PVC SCH. 80 NIPPLE
- 6 1/2" FIPT X MIPT SCH. 40 90 DEGREE ELBOW (2 REQUIRED)
- 7 S x S x T TEE IN LATERAL LINE (LATERAL SIZE x 1/2" FIPT)
- 8 NON-PRESSURE LATERAL LINE (SIZE AS NOTED ON PLAN)

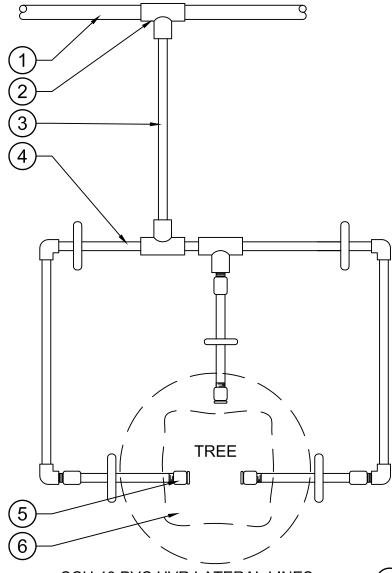
NOTE:

INSTALL (1) ONE DRIP OPERATION INDICATOR NEAR VALVE BOX FOR EACH DRIP ZONE. MARK LOCATION FOR APPROVAL BY LMD REPRESENTATIVE PRIOR TO INSTALLATION.

	RIVERSIDE COUNTY TLMA: PLANNING	AND TRANSPORTATION DI	EPARTMENTS	DATE: 02-05-13
	DRIP OPERATION INDICATOR			OF RIVERS
	POP-UP TYPE	APPROVED BY: MPH		* TANK
STD. I-093	3"=1'-0"	REV:	11/2	OPTATION DEEP







SCH 40 PVC UVR LATERAL LINES
INSTALLED PARALLEL TO SLOPE FACE

(2) SCH 40 UVR S X S X S TEE IN LATERAL LINE

3 1/2" SCH 40 UVR PVC OR FLEXIBLE PVC INSTALLED PERPENDICULAR TO SLOPE

TREE DRIP EMITTER ASSEMBLY TO INCLUDE PVC FITTINGS:

1 1/2" UVR SLIP TEE

1 1/2" UVR SST TEE

2 1/2" UVR SLIP 90 ELLS

2 1/2" UVR ST 90 ELLS

1 SALCO #A-050-12-2MA

2 SALCO #A-050-6-2MA

4 REBAR J-HOOKS

NOTE:

ALL TREES SHALL RECEIVE THE NUMBER OF DRIP EMITTERS SHOWN BELOW.

5 AND 15 GALLON TREES - 3 EMITTERS 24" BOX TREES - 4 DRIP EMITTERS 36" BOX TREES - 5 DRIP EMITTERS 48" BOX TREES - 6 DRIP EMITTERS

TREE WITH MORE THAN 3
EMITTERS SHALL USE
ASSEMBLIES IN KEEPING WITH
THE PVC FITTINGS AND NIPPLES
SHOWN ABOVE.

DRIP EMITTERS SHALL BE PLACE DIRECTLY ADJACENT TO TREE ROOTBALL.

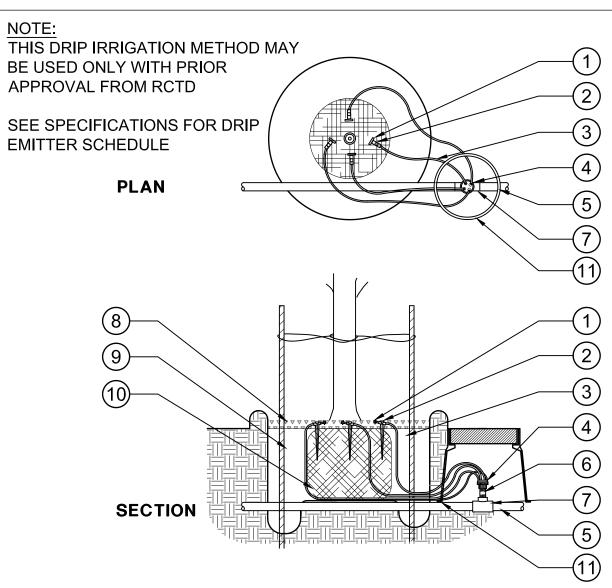
ALL IRRIGATION SHALL BE COMPLETELY INSTALLED PRIOR TO PLANTING LAYOUT.

- DRIP EMITTER
 MINIMUM 3 PER TREE
- 6 TREE PLANTING PLANS

NOTE:

ON GRADE DRIP IRRIGATION MAY ONLY BE DESIGNED AND INSTALLED WITH PRIOR WRITTEN APPROVAL OF RCTD REPRESENTATIVE

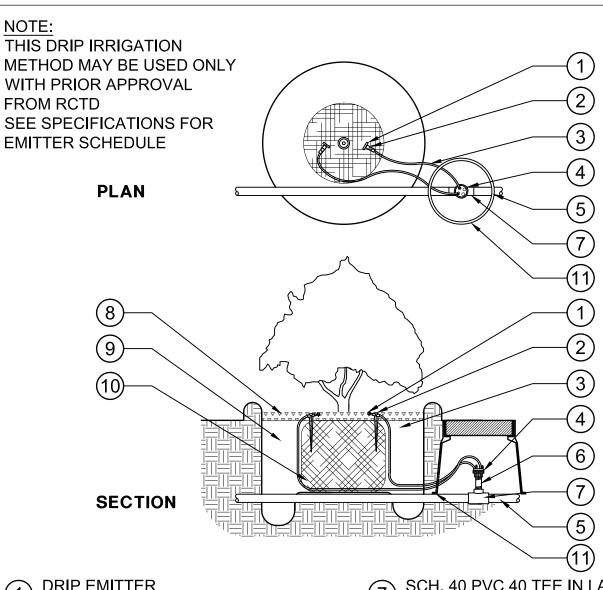
RIVERSIDE COUNTY TLMA: PLANNING AND TRANSPORTATION DEPARTMENTS | DATE: 02-05-13 | TREE EMITTER ON FLEXIBLE RISER WITH ON GRADE LATERAL LINE | APPROVED BY: MPH STD. I-096 | N.T.S. | REV:



- DRIP EMITTER (SEE SPECIFICATIONS)
- 6" GALVANIZED TUBING STAKE (SEE SPECIFICATIONS)
- 3 1/4" TUBING (SEE SPECIFICATIONS)
- PRESSURE COMPENSATING MULTI-OUTLET EMITTER (SEE SPECIFICATIONS)
- 5 SCH. 40 PVC LATERAL LINE (SEE PLAN FOR SIZE)
- (6) 1/2" x 2" PVC SCH 80 NIPPLE

- 7 SCH. 40 PVC 40 TEE IN LATERAL LINE S x S x T (LATERAL SIZE x 1/2" FIPT)
- 8 FINISH GRADE AND MULCH LAYER
- 9 PLANTING PIT
- (10) TREE ROOT BALL
- 6" ROUND VALVE BOX DO NOT CUT ADDITIONAL HOLES INTO BOX

	RIVERSIDE COUNTY TLMA: PLANNING	DATE: 02-05-13		
	DRIP IRRIGATION TO		OF RIVERS	
	WITH MULTI-PORT EMITTER	APPROVED BY: MPH	# 1 m	
STD. I-100	1 1/2"=1'-0"	REV:	11/2	OPTATION DEPE



- DRIP EMITTER (SEE SPECIFICATIONS)
- 6" GALVANIZED TUBING STAKE (SEE SPECIFICATIONS)
- 3 1/4" TUBING (SEE SPECIFICATIONS)
- PRESSURE COMPENSATING MULTI-OUTLET EMITTER (SEE SPECIFICATIONS)
- 5 PVC LATERAL LINE (SEE PLAN FOR SIZE)
- (6) 1/2" X 2" PVC SCH 80 NIPPLE

- 7 SCH. 40 PVC 40 TEE IN LATERAL LINE S x S x T (LATERAL SIZE x 1/2" FIPT)
- 8 FINISH GRADE AND MULCH LAYER
- 9 PLANTING PIT
- (10) PLANT ROOT BALL
- 6" ROUND VALVE BOX DO NOT CUT ADDITIONAL HOLES INTO BOX

	RIVERSIDE COUNTY TLMA: PLANNING	DATE: 02-05-13		
	DRIP IRRIGATION TO SHRUBS			OF RIVERS OF
	WITH MULTI-PORT EMITTER	APPROVED BY: MPH		* I TANA
STD. I-101	1 1/2"=1'-0"	REV:	10	OFTATION DERF