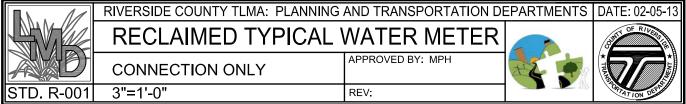
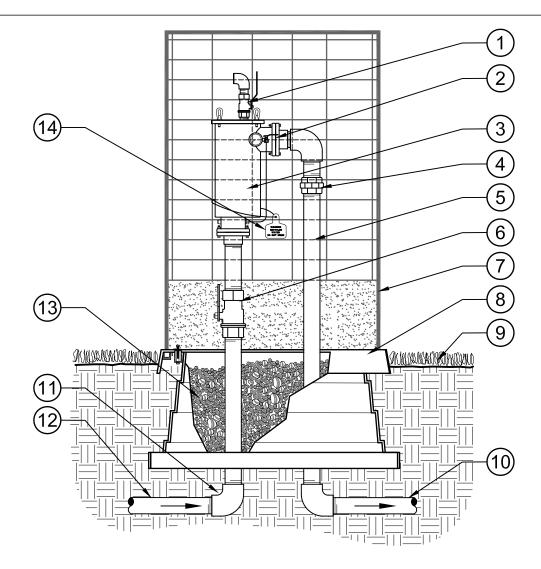


- 1) FINISH GRADE
- CONCRETE METER BOX
 PER WATER DISTRICT STANDARDS
- WATER METER PER WATER DISTRICT STANDARDS
- TYPE K COPPER SERVICE LATERAL PER WATER DISTRICT STANDARDS
- 5 TYPE K COPPER TO BACKFLOW PREVENTION DEVICE
- 6 6" MINIMUM CRUSHED GRAVEL PER WATER DISTRICT STANDARDS
- (7) COMPACT SUBGRADE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

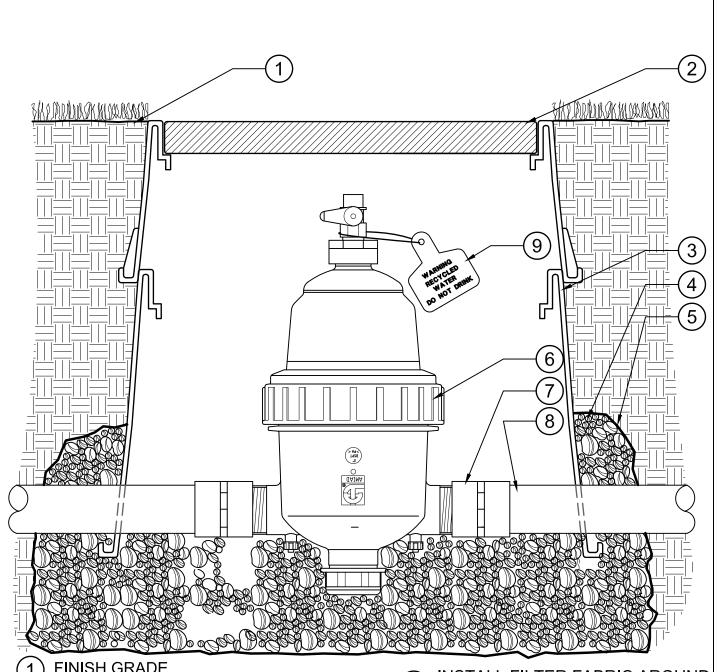




- (1) FLUSH ASSEMBLY
- 2 FLANGE (2 REQUIRED) (SIZE VARIES)
- (3) BASKET STRAINER
- BRASS UNION
 (1 REQUIRED) (LINE SIZE)
- BRASS NIPPLES (LENGTH VARIES) (5 REQUIRED) (LINE SIZE)
- 6 BRASS/BRONZE BALL VALVE (1 REQUIRED) (LINE SIZE)
- 7 STAINLESS STEEL STRAINER ENCLOSURE WITH GREEN POWDER COAT FINISH

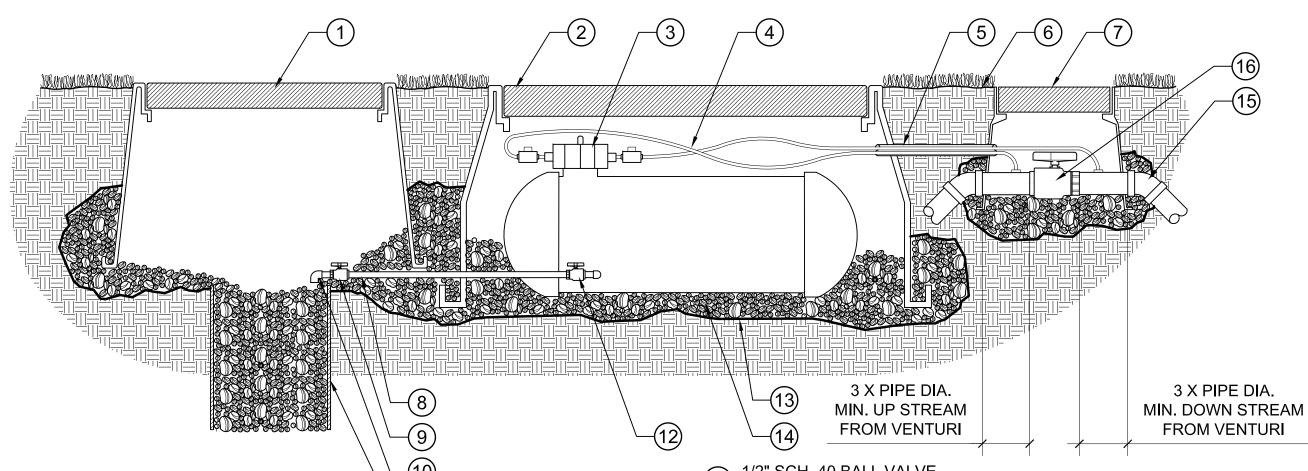
- 8 PRE-FABRICATED QUICKPAD AND MOUNTING HARDWARE
- 9 FINISH GRADE
- BRASS/COPPER MAINLINE TO MASTER VALVE AND FLOW SENSOR
- BRASS ELBOWS (TxT) (THREE REQUIRED) (LINE SIZE)
- BRASS/COPPER MAINLINE FROM WATER SOURCE
- (13) PEA GRAVEL
- RECYCLED WATER WARNING TAG (PER LOCAL STANDARDS)





- **FINISH GRADE**
- STANDARD RECTANGULAR PURPLE VALVE BOX EXTENSION
- STANDARD RECTANGULAR PURPLE VALVE 3 BOX (SEE SPECIFICATIONS). DO NOT CUT ADDITIONAL HOLES INTO BOX
- 3/4" GRAVEL SUMP IN, UNDER AND AROUND VALVE BOX. FILL TO TOP OF VALVE BOX HOLES
- INSTALL FILTER FABRIC AROUND GRAVEL SUMP 5
- 2" AMIAD "T" SERIES FILTER 6
- PVC SCH. 80 FEMALE ADAPTER (2 REQUIRED)
- PURPLE PRESSURE SUPPLY LINE (SEE PLAN FOR SIZE)
- RECYCLED WATER WARNING TAG (PER LOCAL STANDARDS)





- 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
- 1/4" SUPPLY TUBING (PROVIDED WITH INJECTOR KIT)
- SECTION OF 1" PURPLE SCH. 40 PVC. DRILL HOLES IN VALVE BOXES FOR PASS THROUGH

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

INSTALLATION OF BACKFLOW PREVENTION DEVICE DIRECTLY DOWNSTREAM OF WATER METER IS REQUIRED ON POTABLE AND RECYCLED IRRIGATION SYSTEMS

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

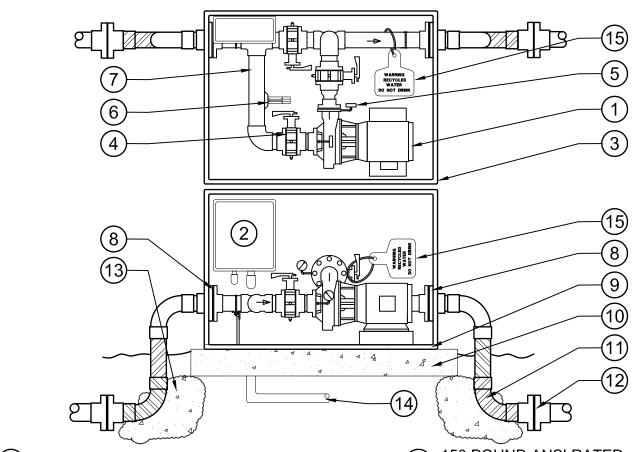
WITH MAINLINE BALL VALVE AND DRAINAGE SUMP

1 1/2"=1'-0"

APPROVED BY: MPH

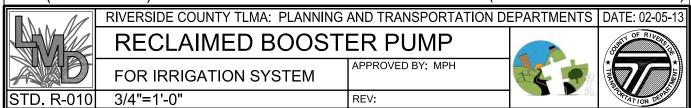


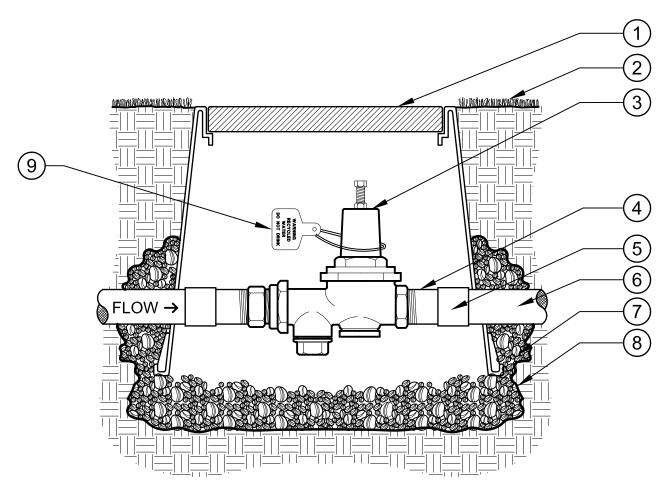




- (1) CLOSE-COUPLED END SUCTION
 CENTRIFUGAL PUMP, CAST IRON BRONZE
 FITTED, BACK PULLOUT DESIGN, MECHANICAL
 SEAL, ODP MOTOR WITH A VARIABLE
 FREQUENCY DRIVE SYSTEM.
- 2 NEMA 4 ENCLOSED CONTROL PANEL, WITH CIRCUIT BREAKER, MAGNETIC STARTER, HOA SWITCH, AND COMPONENTS FOR AUTOMATIC BOOSTER PUMP CONTROL
- 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) (14)
- 7 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
- 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
- 15 RECYCLED WATER WARNING TAG (PER LOCAL STANDARDS)

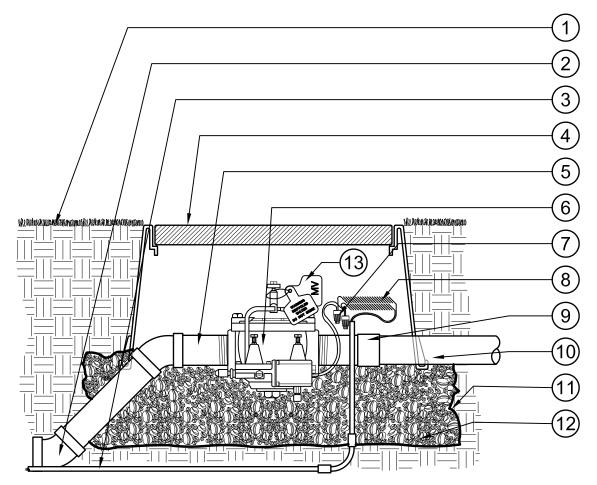




- 1 RECTANGULAR PURPLE VALVE BOX (SEE SPECIFICATIONS), DO NOT CUT ADDITIONAL HOLES INTO BOX
- (2) FINISH GRADE
- PRESSURE REGULATING VALVE (SEE SPECIFICATIONS)
- 4" LONG SCH. 80 TOE NIPPLE (LINE SIZE) (TWO REQUIRED)

- 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
- 9 RECYCLED WATER WARNING TAG (PER LOCAL STANDARDS)



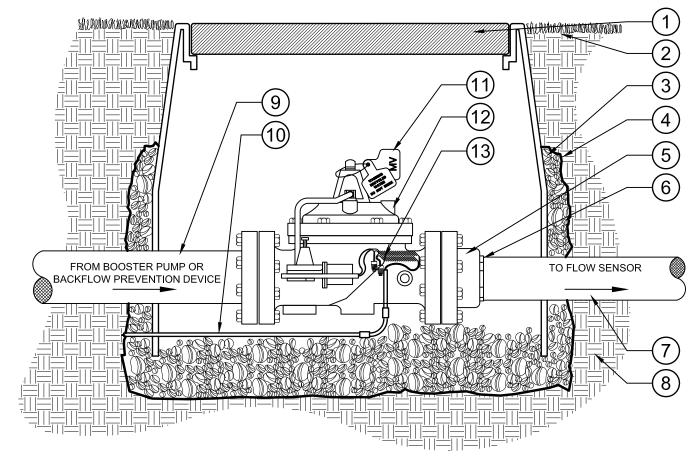


- (1) FINISH GRADE
- 2 45 DEGREE ELL (2 REQUIRED)
- 3/4" SCH 40 WIRE CONDUIT WITH SWEEP FOR MASTER VALVE WIRES (TO CONTROLLER)
- JUMBO RECTANGULAR PURPLE VALVE BOX (SEE SPECIFICATIONS). DO NOT CUT ADDITIONAL HOLES INTO BOX
- 5 4" LONG SCH. 80 TOE NIPPLE (LINE SIZE) (2 REQUIRED)
- 6 MASTER VALVE (SEE 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
- VALVE IDENTIFICATION TAG AND RECYCLED WATER WARNING TAG (PER LOCAL STANDARDS)

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

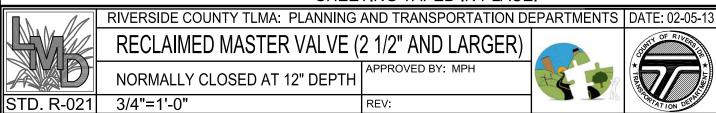


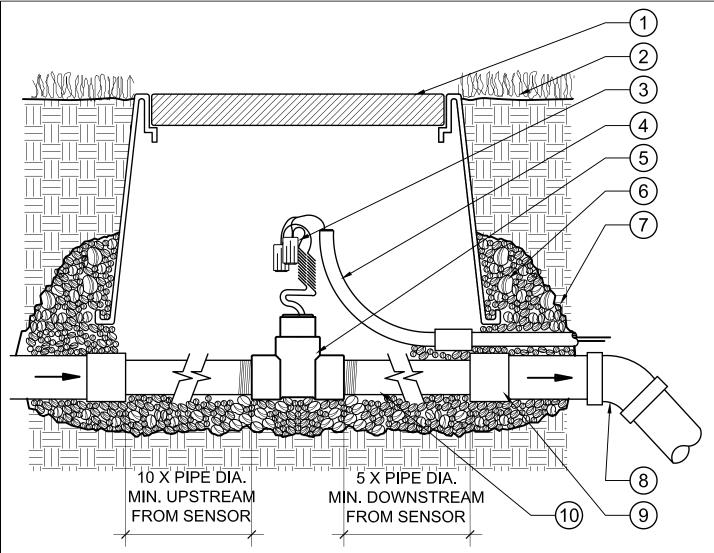


- JUMBO VALVE BOX / PLASTIC VAULT (WITH PURPLE LID (BOX SIZE VARIES WITH VALVE SIZE)
- (2) FINISH GRADE
- 3/4" GRAVEL SUMP IN, UNDER AND AROUND VALVE BOX (FILL TO TOP OF VALVE BOX HOLES)
- (4) INSTALL FILTER FABRIC AROUND GRAVEL SUMP
- 5 SCH. 80 PVC FLANGE FLANGE X SLIP (SIZE VARIES)
- 6 SxS SCH. 80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

- 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)
- VALVE IDENTIFICATION TAG AND RECYCLED WATER WARNING TAG (PER LOCAL STANDARDS)
- (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.

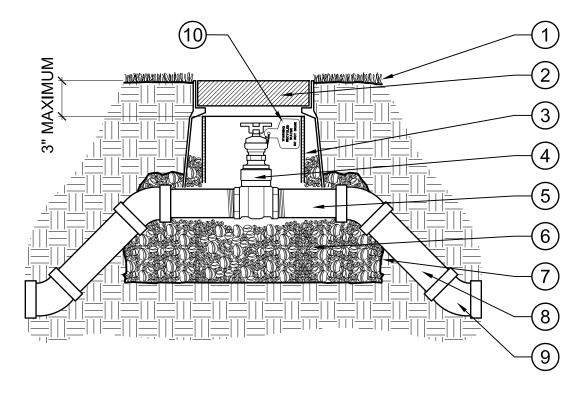




- (SEE SPECIFICATIONS)
 (DO NOT CUT ADDITIONAL HOLES INTO BOX)
- (2) FINISH GRADE
- 3 CONNECT WIRE TO FLOW SENSOR USING WATER TIGHT CONNECTORS (SEE SPECIFICATIONS)
- 3/4" SCH. 40 PVC CONDUIT WITH SWEEP FOR FLOW SENSOR WIRE (TO CONTROLLER)
- 5 FLOW SENSOR (PVC OR BRASS) (SEE SPECIFICATIONS)
- 6 3/4" GRAVEL 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)

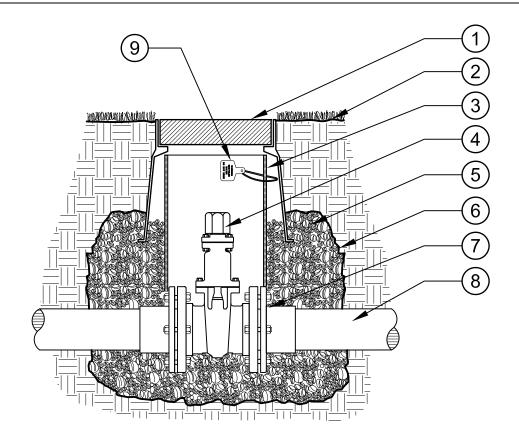
	RIVERSIDE COUNTY TLMA: PLANNING	EPARTMENTS	DATE: 02-05-13	
	RECLAIMED FLOW S	SENSOR		OF RIVERS
	AT 12" DEPTH	APPROVED BY: MPH		* TANK
STD. R-022	3"=1'-0"	REV:	11/2	OPTATION DEP



- (1) FINISH GRADE
- 10" ROUND PURPLE 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)

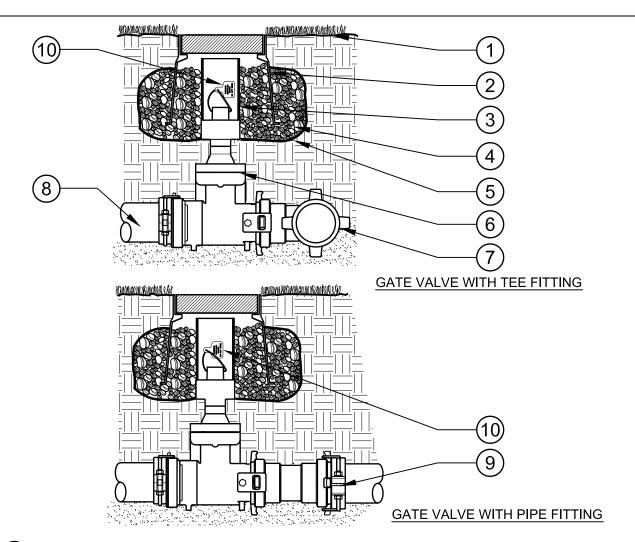
- 6" LONG SCH. 80 TOE NIPPLE (LINE SIZE) (TWO REQUIRED)
- 6 3/4" GRAVEL SUMP IN, UNDER AND AROUND VALVE BOX, FILL TO TOP OF VALVE BOX HOLES
- 7 INSTALL FILTER FABRIC AROUND GRAVEL SUMP
- 8 PRESSURE SUPPLY LINE (REFER TO PLAN FOR SIZE)
- 9 SLIP X SLIP 45 DEGREE ELL (4 REQUIRED)
- 10 RECYCLED WATER WARNING TAG (PER LOCAL STANDARDS)





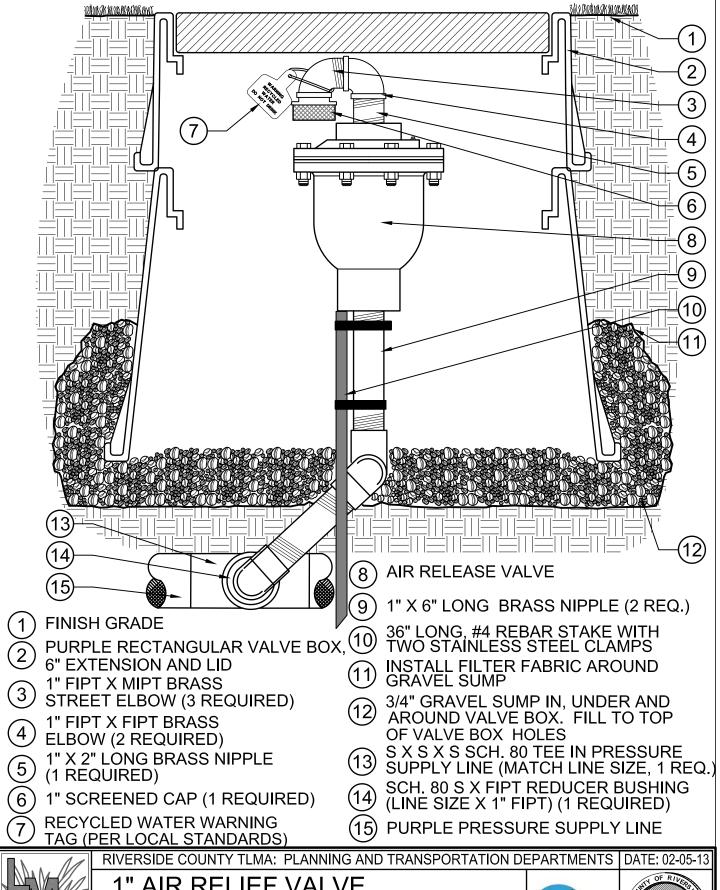
- 10" ROUND PURPLE VALVE BOX (SEE SPECIFICATIONS) (DO NOT CUT ADDITIONAL HOLES INTO BOX)
- (2) FINISH GRADE
- 3 8" CL 160 PVC SLEEVE (TO REST ON TOP EDGE OF VALVE ASSEMBLY)
- 4 ISOLATION GATE VALVE WITH 2" SQUARE OPERATING NUT (SEE SPECIFICATIONS)
- 5 3/4" GRAVEL SUMP IN, UNDER, AND AROUND VALVE BOX 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)
- 9 RECYCLED WATER WARNING TAG (PER LOCAL STANDARDS)

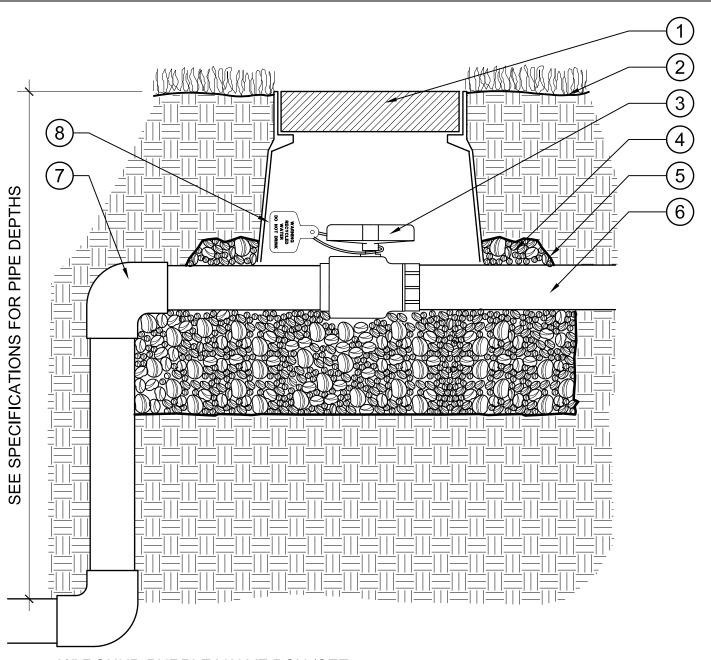
	RIVERSIDE COUNTY TLMA: PLANNING	AND TRANSPORTATION DE	PARTMENTS	DATE: 02-05-13
	RECLAIMED ISOLATIO	N GATE VALVE		OF RIVERS
	FOR 3" PRESSURE SUPPLY LINE	APPROVED BY: MPH		
STD. R-031	3"=1'-0"	REV:	1/2	TOPTATION DESIGNATION



- (1) FINISH GRADE
- (2) 10" ROUND PURPLE 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 PURPLE IRRIGATION PRESSURE SUPPLY LINE
- 9 SELF RESTRAINED BELL X BELL MAINLINE GATE VALVE
- 10 RECYCLED WATER WARNING TAG (PER LOCAL STANDARDS)



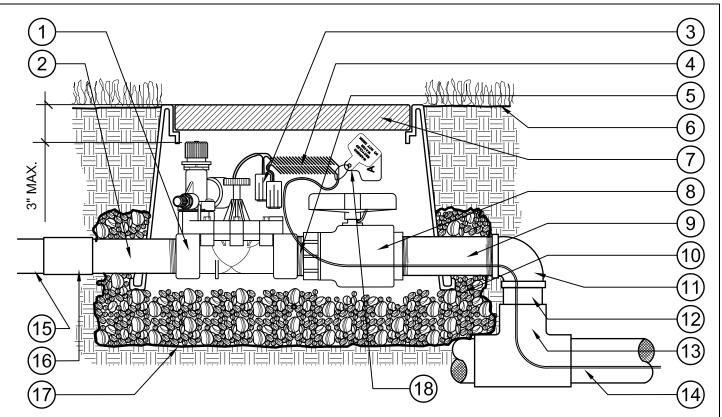




- 10" ROUND PURPLE VALVE BOX (SEE SPECIFICATIONS, DO NOT CUT ADDITIONAL HOLES INTO BOX)
- (2) FINISH GRADE
- (SEE SPECIFICATIONS)
- 4 3/4" GRAVEL SUMP IN, UNDER, AND AROUND VALVE BOX (FILL TO TOP OF VALVE BOX HOLES)

- 5 INSTALL FILTER FABRIC AROUND GRAVEL SUMP
- 6 PURPLE PRESSURE SUPPLY LINE EXTENDED TO MANIFOLDS OR QUICK COUPLER
- 7 SLIP X SLIP 45 DEGREE ELL (2 REQUIRED)
- 8 RECYCLED WATER WARNING TAG (PER LOCAL STANDARDS)



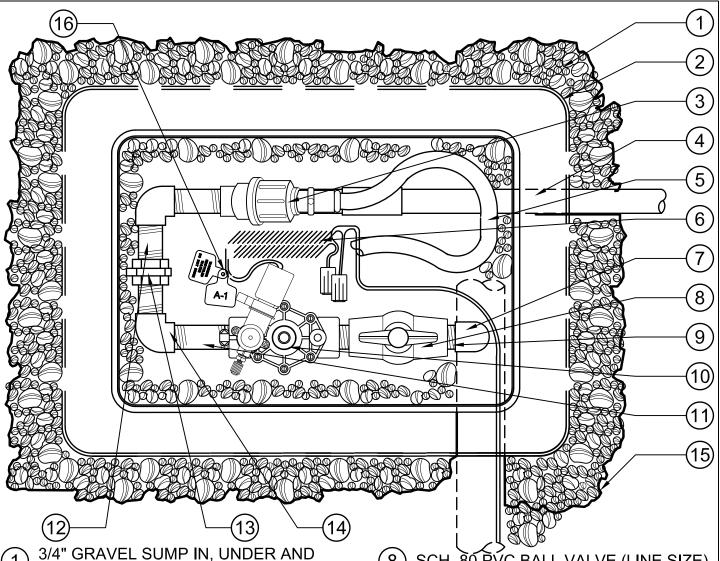


- (1) ELECTRIC CONTROL VALVE
- 6" LONG SCH. 80 TOE NIPPLE (LATERAL LINE SIZE)
- 3 CONNECT WIRES TO VALVE USING WATER TIGHT CONNECTORS (SEE SPECIFICATIONS)
- 4 USE 1/2" PVC SCRAP T WRAP 12" OF ADDITIONAL WIRE BEFORE CONNECTING
- (5) CLOSED NIPPLE (LINE SIZE)
- (6) FINISH GRADE
- (SEE SPECIFICATIONS, DO 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)
- 16 SCH. 80 COUPLING (LATERAL LINE SIZE)
- 17 INSTALL FILTER FABRIC AROUND GRAVEL SUMP
- (18) VALVE IDENTIFICATION TAG AND RECYCLED WATER WARNING TAG

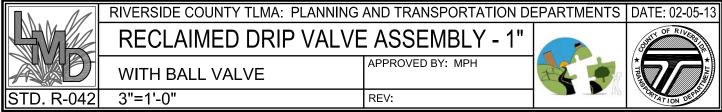
BALL VALVE TO BE USED ONLY IF IRRIGATION CONTROL VALVE IS INSTALLED AS A SINGLE VALVE AND NOT PART OF A MANIFOLD.

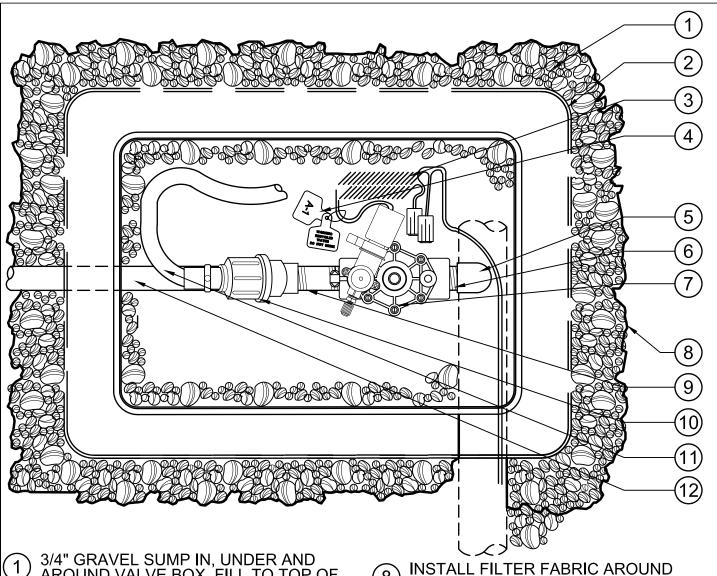




- AROUND VALVE BOX, FILL TO TOP OF VALVE BOX HOLES
- RECTANGULAR PURPLE VALVE BOX (SEE SPECIFICATIONS, DO NOT CUT ADDITIONAL HOLES INTO BOX)
- WYE STRAINER (SEE SPECIFICATIONS)
- PURPLE PVC NON-PRESSURE LATERAL LINE OR POLYETHYLENE TUBING (SEE SPECIFICATIONS)
- 18" LENGTH OF SCH. 40 FLEXIBLE PVC 5 TUBING, CONNECT TO FILTER
- USE 1/2" PVC SCRAP TO WRAP 12" OF 6 ADDITIONAL WIRE BEFORE CONNECTING
- PVC SCH. 40 SLIP X FIPT ELL CONNECTING RISER FROM PVC PRESSURE SUPPLY LINE

- SCH. 80 PVC BALL VALVE (LINE SIZE) 8
- CLOSED NIPPLE (2 REQUIRED)
- 1" ELECTRIC CONTROL VALVE (WITH PRESSURE REGULATING FEATURE, SEE SPECIFICATIONS)
- (11)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**
- RECYCLED WATER WARNING AND 16 VALVE IDENTIFICATION TAG





3/4" GRAVEL SUMP IN, UNDER AND AROUND VALVE BOX. FILL TO TOP OF VALVE BOX HOLES

GRAVEL SUMP 2" SCH. 80 NIPPLE (1 REQUIRED)

RECTANGULAR PURPLE VALVE BOX (SEE SPECIFICATIONS, DO NOT CUT ADDITIONAL HOLES INTO BOX)

WYE STRAINER (SEE SPECIFICATIONS)

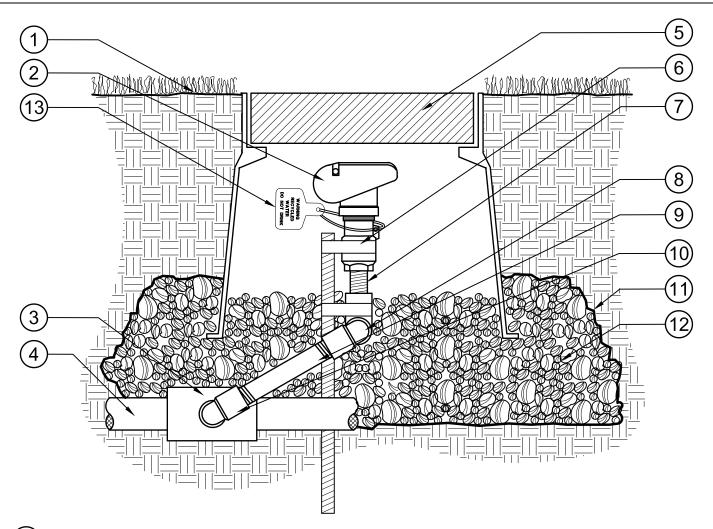
USE 1/2" PVC SCRAP TO WRAP 12" OF ADDITIONAL WIRE BEFORE CONNECTING

- 18" LENGTH OF SCH. 40 FLEXIBLE PVC TUBING CONNECT TO FILTER
- **VALVE IDENTIFICATION TAG &** RECYCLED WATER WARNING / ID TAG
- PVC NON PRESSURE LATERAL LINE OR POLYETHYLENE TUBING (SEE SPECIFICATIONS)

PVC SCH. 40 SLIP X FIPT ELL CONNECTING RISER FROM PVC PRESSURE SUPPLY LINE

- SCH. 80 CLOSED NIPPLE
- ELECTRIC CONTROL VALVE (WITH PRESSURE REGULATING FEATURE. SEE SPECIFICATIONS)

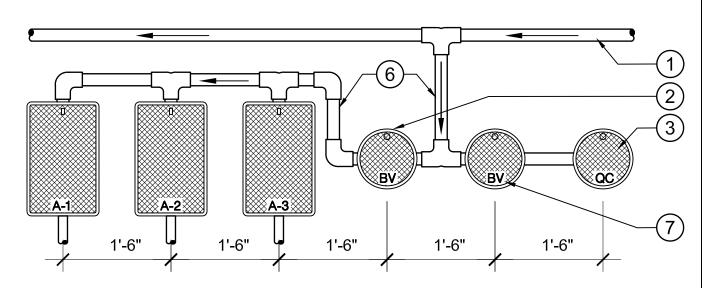
	RIVERSIDE COUNTY TLMA: PLANNING	AND TRANSPORTATION DI	EPARTMENTS	DATE: 02-05-13
	RECLAIMED DRIP VAL	VE ASSEMBLY		OF RIVERS
	COMPACT	APPROVED BY: MPH	12 De	* TANK
STD. R-043	3"=1'-0"	REV:	11/2	ORTATION DERV



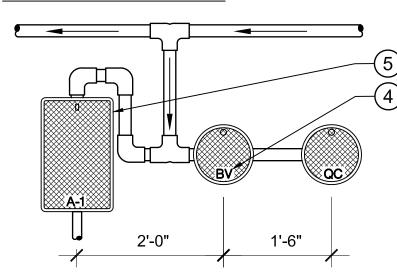
- (1) FINISH GRADE
- QUICK COUPLING VALVE (SEE LEGEND AND SPECIFICATIONS) (
- (3) TEE IN PRESSURE SUPPLY LINE
- 4 PURPLE PRESSURE SUPPLY LINE (SEE PLAN FOR SIZE)
- 5 10" ROUND PURPLE VALVE BOX (DO NOT CUT ADDITIONAL HOLES INTO BOX)
- 6 SCH. 40 GALVANIZED 36" STAKE WITH (2) SPRINKLER TIES
- 7 PVC SCH. 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
- RECYCLED WATER WARNING TAG (PER LOCAL STANDARDS)





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

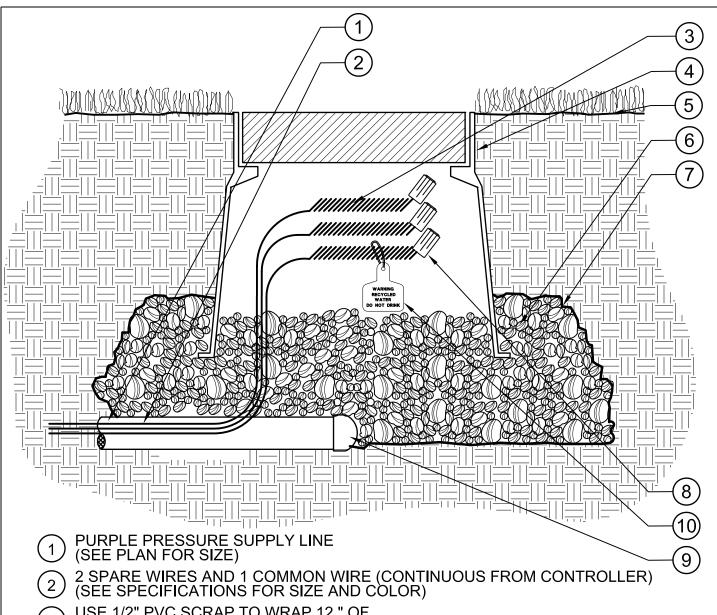
- PURPLE PRESSURE SUPPLY LINE (SEE PLAN FOR SIZE)
- BALL VALVES TO MANIFOLD (SEE IRRIGATION LEGEND AND DETAIL)
- QUICK COUPLER (SEE IRRIGATION LEGEND AND DETAIL)
- HEAT BRAND ALL PURPLE VALVE BOXES PER SPECIFICATION
- **ELECTRIC CONTROL VALVE** (SEE IRRIGATION LEGEND AND DETAIL)
- PURPLE MANIFOLD PIPE 6 SEE PLAN FOR SIZE (SHOWN AT SIDE FOR GRAPHIC CLARITY, LOCATE UNDERNEATH PURPLE VALVE BOXES)
 - BALL VALVE AND PURPLE SUPPLY LINE TO QUICK COUPLER (SIZE PER PLAN)



REV:

SINGLE AND MULTIPLE VALVES

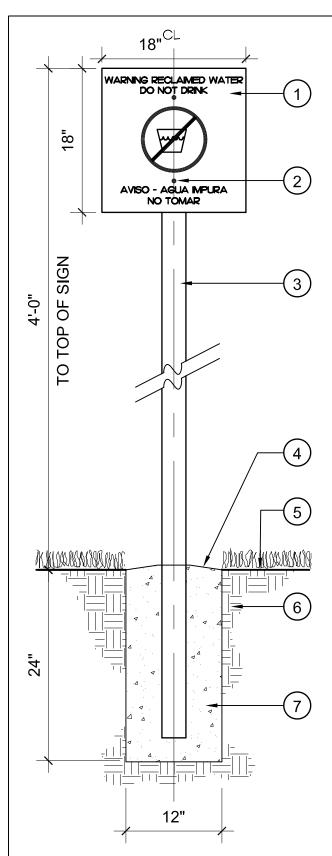




- USE 1/2" PVC SCRAP TO WRAP 12 " OF ADDITIONAL WIRE. LABEL ALL WIRES AS "SPARE"
- 4 10" ROUND PURPLE VALVE BOX (INDEPENDENT FROM ALL OTHER BOXES)
- (5) FINISH GRADE

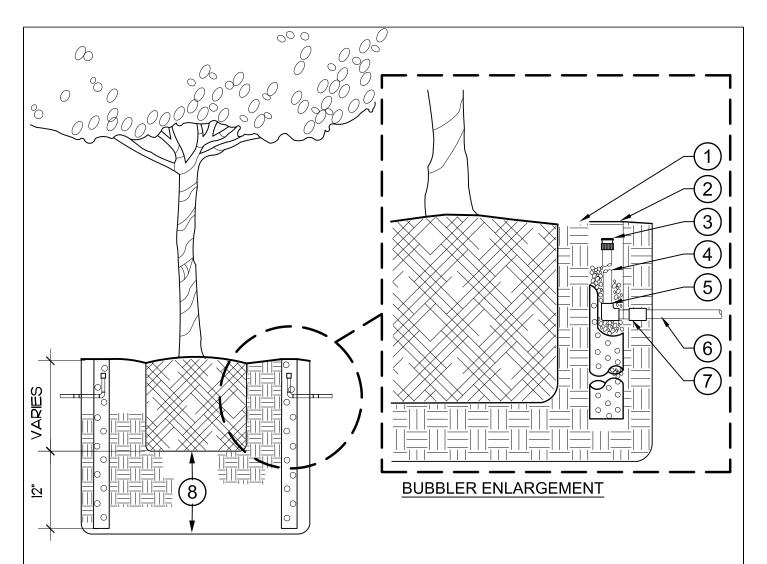
- 10 RECYCLED WATER WARNING TAG (PER LOCAL STANDARDS)
- 6 3/4" GRAVEL SUMP IN, UNDER AND AROUND VALVE BOX. FILL TO TOP OF VALVE BOX HOLES
- 7 INSTALL FILTER FABRIC AROUND GRAVEL SUMP
- CAP WIRES WITH APPROVED WATERTIGHT WIRE CONNECTOR (SEE SPECIFICATIONS)
- 9 CAP PRESSURE SUPPLY LINE DIRECTLY BELOW CENTER OF SPARE WIRE VALVE BOX





- 1 RECLAIMED WATER SIGN PER PER LOCAL WATER DISTRICT STANDARDS
- 2 ATTACH SIGN TO POST W/ (2) 1/4" CARRIAGE BOLTS 3" FROM TOP AND BOTTOM OF SIGN. BOLT SIZES AS REQUIRED
- (3) 3" GALVANIZED STEEL POST
- (4) SLOPE TO DRAIN AWAY FROM POST
- (5) FINISH GRADE
- 6 COMPACTION PER GEOTECHNICAL REPORT
- (7) CONCRETE FOOTING

	RIVERSIDE COUNTY TLMA: PLANNING	AND TRANSPORTATION DI	EPARTMENTS	DATE: 02-05-13
	RECLAIMED WATER	SIGNAGE		OF RIVERS
	PER LOCAL WATER DIST. STANDARDS	APPROVED BY: MPH	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	* IN THE STATE OF
STD. R-047	1"=1'-0"	REV:	11/3	OFTATION DEST



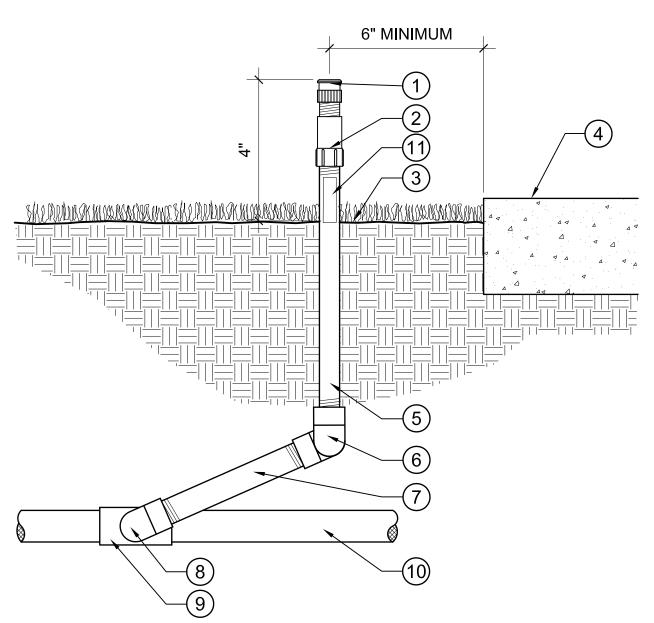
1) FINISH GRADE

- 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
- 4 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

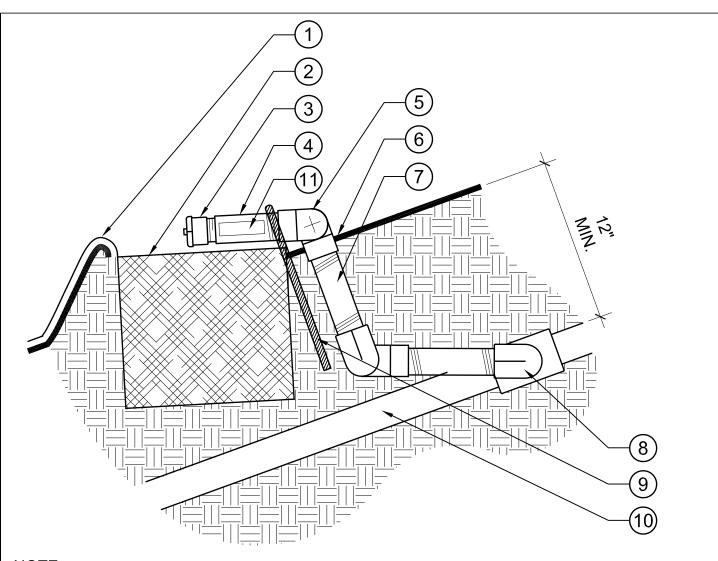
	PARTMENTS	DATE: 02-05-13		
	RECLAIMED TREE W		OF RIVERS	
	AND SCHEDULE	APPROVED BY: MPH	The state of the s	* TRANS
STD. R-050	N.T.S.	REV:	11/2	OFTATION DERVE



- 1 PURPLE 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 PURPLE NON-PRESSURE LATERAL LINE (SIZE AS NOTED ON PLAN)
- 11 RECYCLED WATER WARNING STICKER

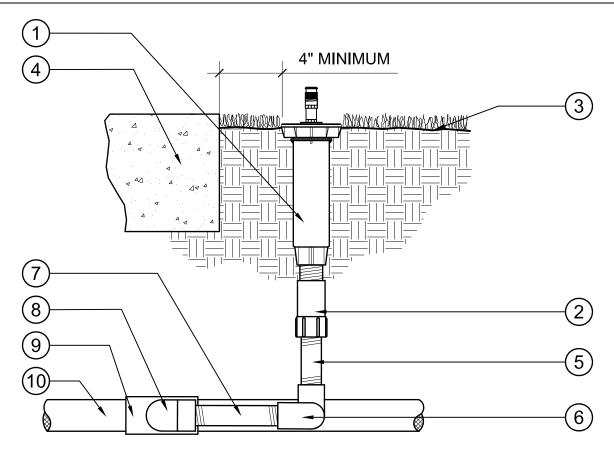
RIVERSIDE COUNTY TLMA: PLANNING AND TRANSPORTATION DE				DATE: 02-05-13
	RECLAIMED BUBBLE ON RISER			OF RIVERS
	WITH CHECK VALVE	APPROVED BY: MPH	1	* TANK
STD. R-051	3"=1'-0"	REV:		OPTATION DEST



- 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.
- 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 PURPLE NON-PRESSURE LATERAL LINE
- 11 RECYCLED WATER WARNING STICKER

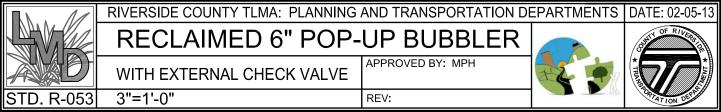
	RIVERSIDE COUNTY TLMA: PLANNING	AND TRANSPORTATION DI	EPARTMENTS	DATE: 02-05-13
	RECLAIMED BUBBLER FOR	TREES ON SLOPES		OF RIVERS
	WITH STEEL "J" HOOK	APPROVED BY: MPH	1	
STD. R-052	3"=1'-0"	REV:	11/2	ORTATION DERV

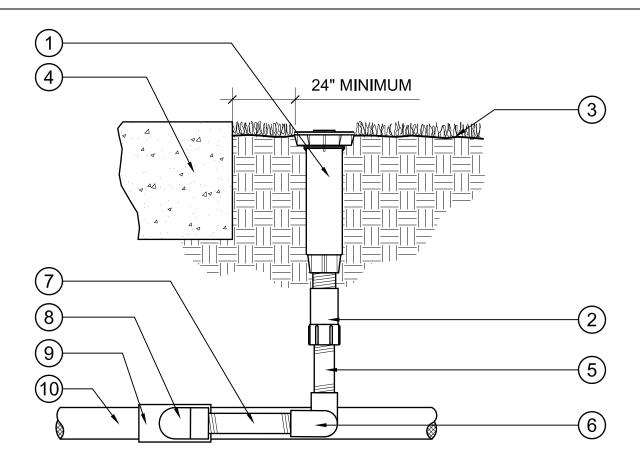


INSTALL EXTERNAL CHECK VALVES ON ALL SPRAYHEADS THAT ARE GREATER THAN 8 VERTICAL FEET IN ELEVATION LOWER THAN THE HIGHEST POINT ON THE COMBINED NON-PRESSURE LATERAL LINE FOR THE ENTIRE ZONE.

- 1 POP-UP BUBBLER WITH PURPLE CAP (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 PURPLE NON-PRESSURE LATERAL LINE (SIZE AS NOTED ON PLAN)

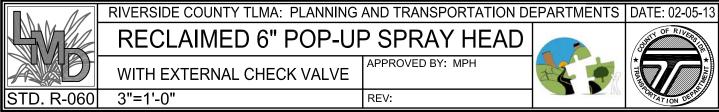


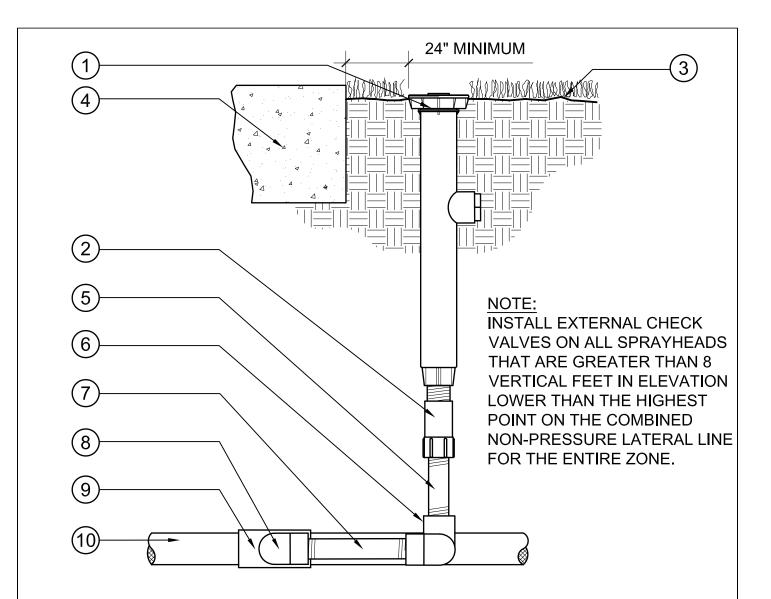


INSTALL EXTERNAL CHECK VALVES ON ALL SPRAYHEADS THAT ARE GREATER THAN 8 VERTICAL FEET IN ELEVATION LOWER THAN THE HIGHEST POINT ON THE COMBINED NON-PRESSURE LATERAL LINE FOR THE ENTIRE ZONE.

- 1 POP-UP SPRAY HEAD WITH PURPLE CAP (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)

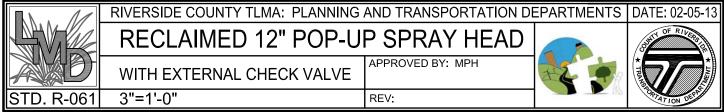
- 6 1/2" FIPT x FIPT SCH. 40 90 DEGREE ELBOW (1 REQUIRED)
- (7) 1/2" x 8" PVC SCH. 80 NIPPLE
- 8 1/2" FIPT X MIPT SCH. 40 90 DEGREE ELBOW (2 REQUIRED)
- 9 S x S x T TEE IN LATERAL LINE (LATERAL SIZE x 1/2" FIPT)
- 10 PURPLE NON-PRESSURE LATERAL LINE (SIZE AS NOTED ON PLAN)

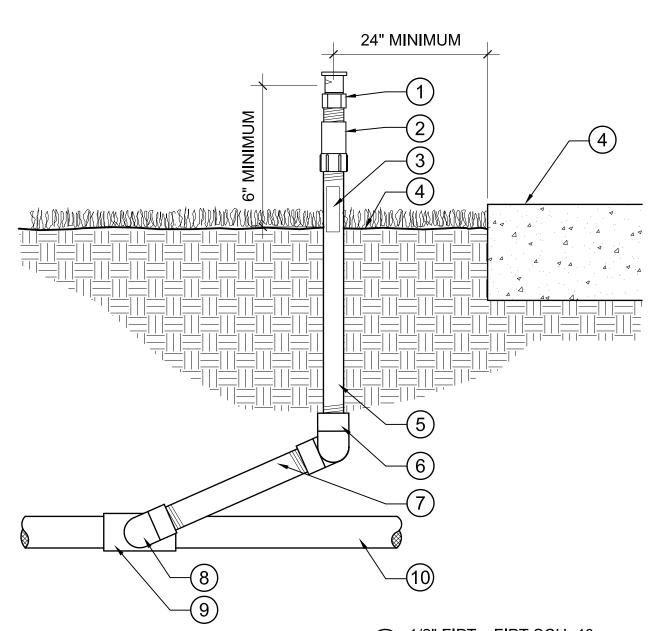




- POP-UP SPRAY HEAD WITH PURPLE CAP (SEE SPECIFICATIONS)
- 2 EXTERNAL CHECK VALVE (SEE SPECIFICATIONS)
- (3) FINISH GRADE
- 4 ADJACENT HARDSCAPE (IF APPLICABLE)
- 5 1/2" x 2" SCH. 80 NIPPLE (1 REQUIRED)

- 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 PURPLE NON-PRESSURE LATERAL LINE (SIZE AS NOTED ON PLAN)

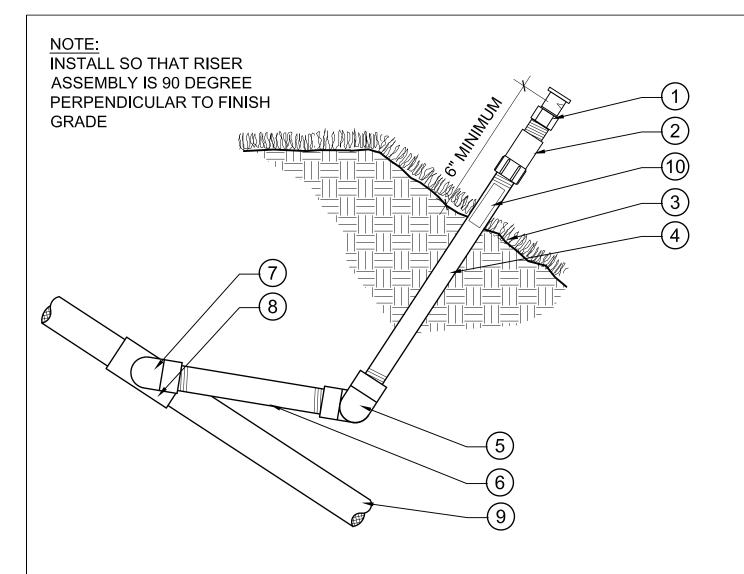




- SHRUB SPRAY NOZZLE AND SCREEN WITH PURPLE ADAPTER (SEE SPECIFICATIONS)
- 2 EXTERNAL CHECK VALVE (SEE SPECIFICATIONS)
- (3) FINISH GRADE
- 4 ADJACENT HARDSCAPE (IF APPLICABLE)
- 5 1/2" PVC SCH. 80 RISER (LENGTH VARIES)

- 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 PURPLE NON-PRESSURE LATERAL LINE (SIZE AS NOTED ON PLAN)
- 11 RECYCLED WATER WARNING STICKER

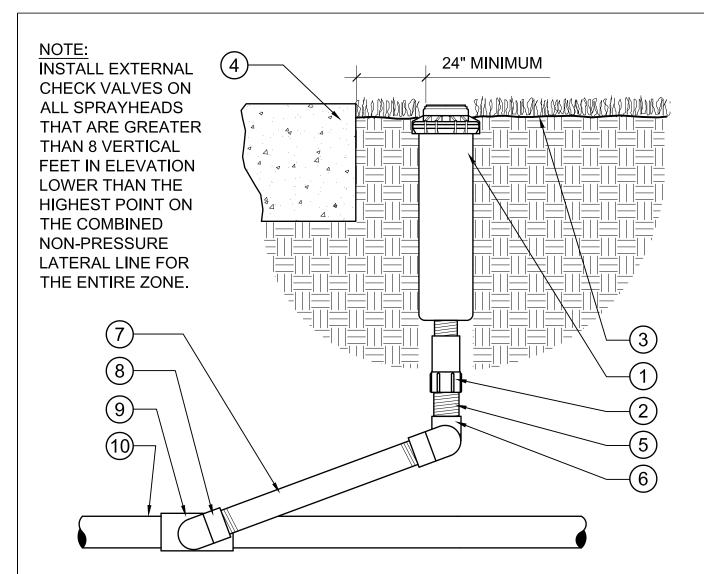
	RIVERSIDE COUNTY TLMA: PLANNING	EPARTMENTS	DATE: 02-05-13	
	RECLAIMED SHRUB SP	PRAY ON RISER		OF RIVERS
	WITH CHECK VALVE	APPROVED BY: MPH	12 De	* Table 1
STD. R-062	3"=1'-0"	REV:	11/2	OFTATION DEP



- SHRUB SPRAY NOZZLE AND SCREEN WITH PURPLE ADAPTER (SEE SPECIFICATIONS)
- 2 EXTERNAL CHECK VALVE (SEE SPECIFICATIONS)
- 3 FINISH GRADE
- 4 1/2" PVC 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 PURPLE NON-PRESSURE LATERAL LINE (SIZE AS NOTED ON PLAN)
- 10 RECYCLED WATER WARNING STICKER

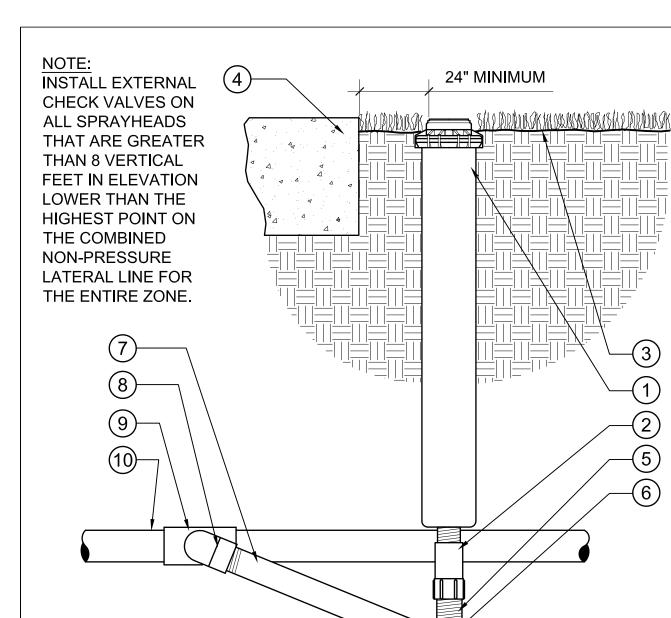




- 1 POP-UP ROTOR HEAD WITH PURPLE CAP (SEE SPECIFICATIONS)
- 2 EXTERNAL CHECK VALVE (SEE SPECIFICATIONS)
- (3) FINISH GRADE
- 4 ADJACENT HARDSCAPE (IF APPLICABLE)
- 5 1/2" x 2" SCH. 80 NIPPLE (1 REQUIRED)

- 6 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 PURPLE NON-PRESSURE LATERAL LINE (SIZE AS NOTED ON PLAN)





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

3/4" FIPT x FIPT SCH. 40 90 DEGREE ELBOW (1 REQUIRED)

3

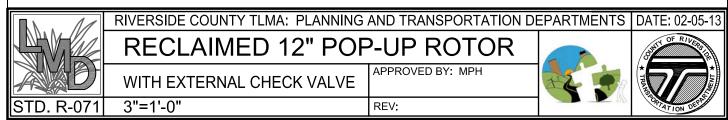
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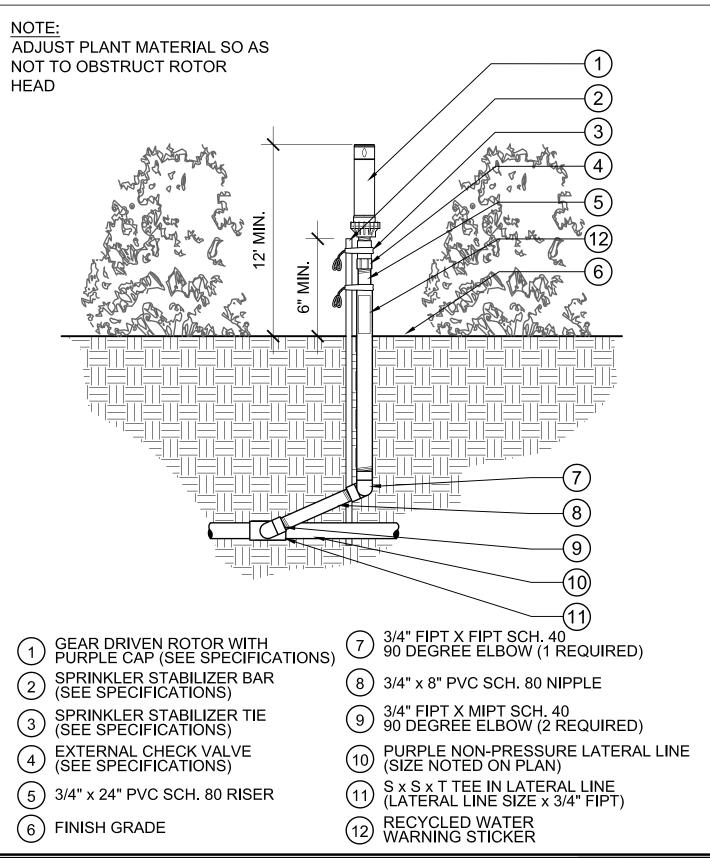
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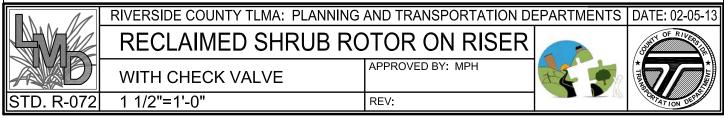
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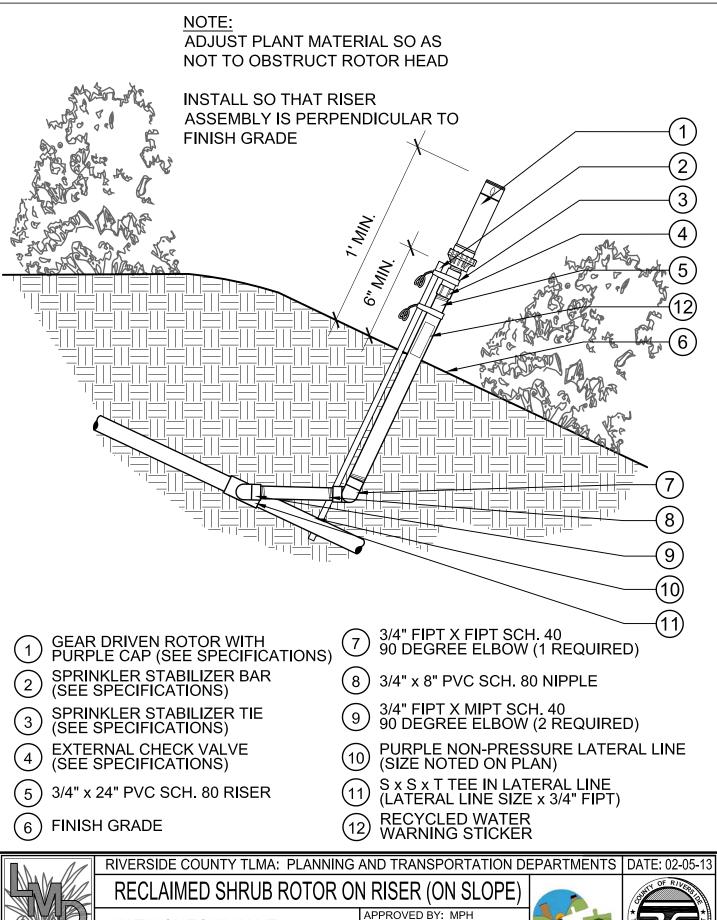
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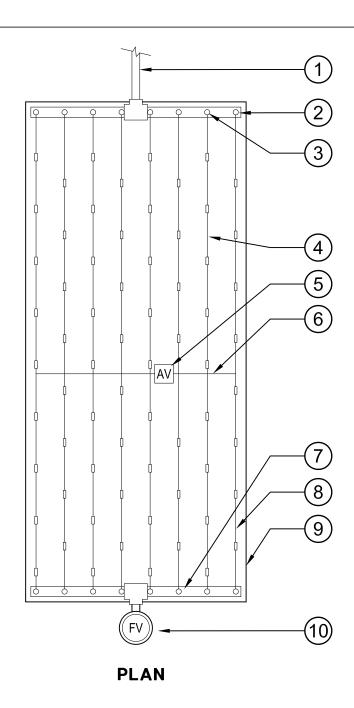
- 3/4" x 8" PVC SCH. 80 NIPPLE
- 3/4" FIPT X MIPT SCH. 40 90 DEGREE ELBOW (2 REQUIRED)
- S x S x T TEE IN LATERAL LINE (LATERAL SIZE x 3/4" FIPT)
- PURPLE NON-PRESSURE LATERAL LINE (SIZE AS NOTED ON PLAN)





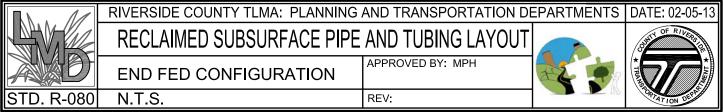


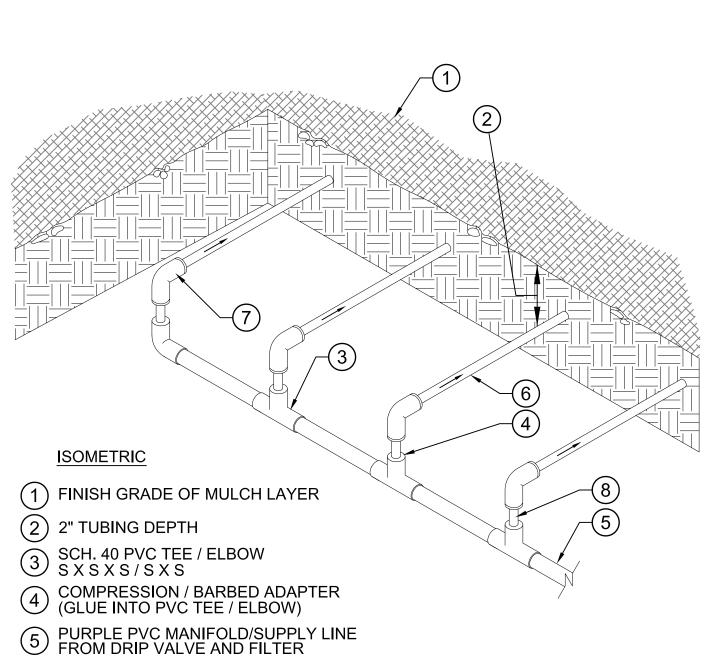




- 1 PURPLE PVC LATERAL LINE FROM ELECTRIC CONTROL VALVE
- (2) PURPLE PVC SUPPLY MANIFOLD
- (3) MANIFOLD TO ELBOW CONNECTION
- 4 PURPLE DRIP LINE LATERAL
- AIR/VACUUM RELIEF VALVE AT EACH HIGH POINT
- (6) AIR/VACUUM RELIEF LATERAL
- (7) PURPLE PVC FLUSH MANIFOLD
- 8 PURPLE PERIMETER LATERALS 12" FROM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

- 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.

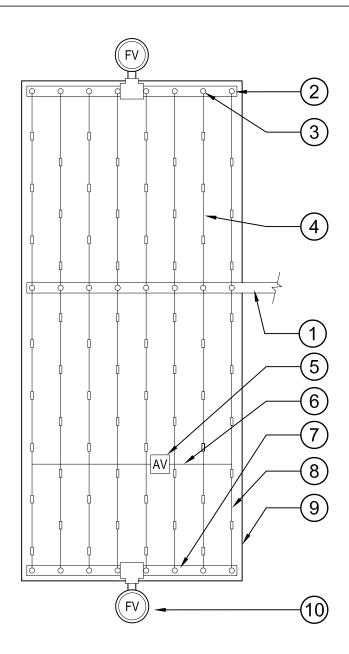




- PURPLE DRIP LINE WITH INTEGRAL EMITTERS 2" BELOW FINISH GRADE OF TOP SOIL
- COMPRESSION / BARBED ELBOW
- PURPLE DRIP LINE

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

	RIVERSIDE COUNTY TLMA: PLANNING	AND TRANSPORTATION DI	EPARTMENTS	DATE: 02-05-13
	RECLAIMED SUBSURFACE PIPE A	AND TUBING MANIFOLD		OF RIVERS
	END FED CONFIGURATION	APPROVED BY: MPH	# F	
STD. R-081	N.T.S.	REV:		ORTATION DERV



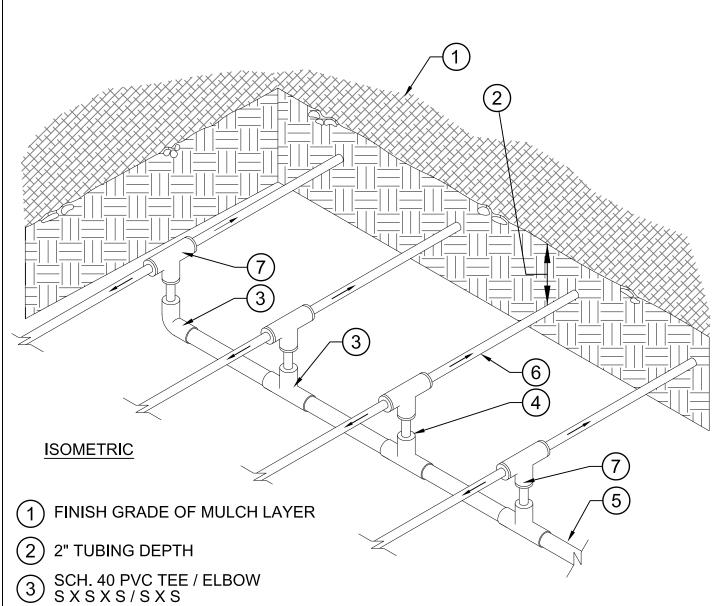
- 1 PURPLE PVC LATERAL LINE FROM ELECTRIC CONTROL VALVE
- (2) PURPLE PVC EXHAUST
- (3) MANIFOLD TO ELBOW CONNECTION
- 4) PURPLE DRIP LINE LATERAL
- 5 AIR/VACUUM RELIEF VALVE AT EACH HIGH POINT
- (6) AIR/VACUUM RELIEF LATERAL
- (7) PURPLE PVC FLUSH MANIFOLD
- 8 PURPLE PERIMETER LATERALS 12" FROM EDGE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

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.

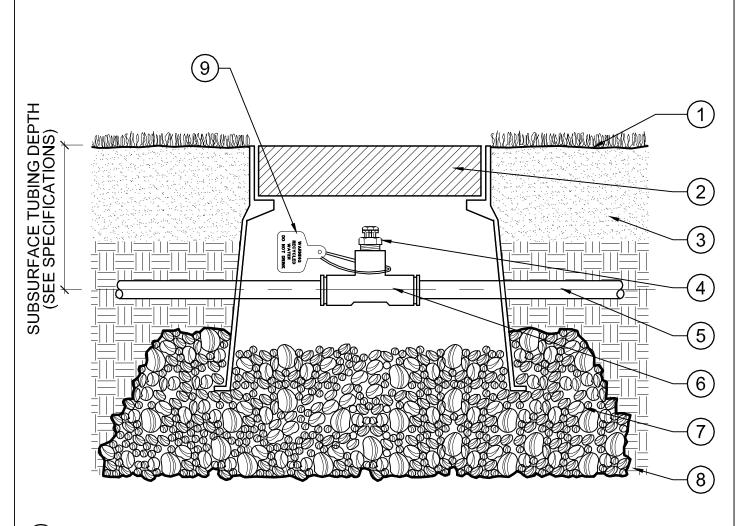
	RIVERSIDE COUNTY TLMA: PLANNING	AND TRANSPORTATION DI	EPARTMENTS	DATE: 02-05-13
	RECLAIMED SUBSURFACE PIPE	AND TUBING LAYOUT		OF RIVERS
	CENTER FED CONFIGURATION	APPROVED BY: MPH	1	
STD. R-082	N.T.S.	REV:		OPTATION DEST



- COMPRESSION / BARBED ADAPTER (GLUE INTO PVC TEE / ELBOW)
- 5 PURPLE PVC MANIFOLD/SUPPLY LINE FROM DRIP VALVE AND FILTER
- 6 PURPLE 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.

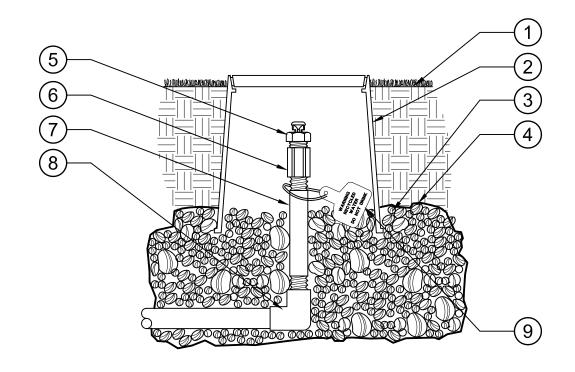
	RIVERSIDE COUNTY TLMA: PLANNING	AND TRANSPORTATION DI	EPARTMENTS	DATE: 02-05-13
	RECLAIMED SUBSURFACE PIPE A	ND TUBING MANIFOLD		OF RIVERS
	CENTER FED CONFIGURATION	APPROVED BY: MPH	1	
STD. R-083	N.T.S.	REV:	11/2	TOPTATION DERV



- (1) FINISH GRADE
- 2 10" ROUND PURPLE VALVE BOX DRILL HOLES INTO BOX AT SAME DEPTH AS TUBING. HEAT BRAND "AR" ON THE LID IN 1" TALL LETTERS
- 3 AMENDED SOIL MIX (REFER TO PLANTING PLANS)
- AIR VACUUM RELIEF VALVE (SEE SPECIFICATIONS)
- 5 PURPLE SUBSURFACE TUBING (SEE SPECIFICATIONS)
- (6) PVC SCH. 40 COMP X FIPT X COMP TEE
- 7 3/4" GRAVEL SUMP IN, UNDER AND AROUND VALVE BOX. FILL TO TOP OF VALVE BOX HOLES
- 8 INSTALL FILTER FABRIC AROUND GRAVEL SUMP
- 9 RECYCLED WATER WARNING TAG (PER LOCAL STANDARDS)

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

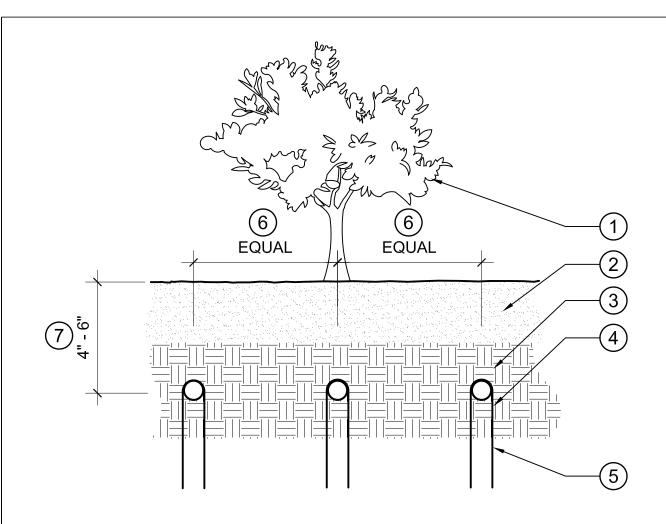
	RIVERSIDE COUNTY TLMA: PLANNING	AND TRANSPORTATION D	EPARTMENTS	DATE: 02-05-13
	RECLAIMED AIR / VACUU	M RELIEF VALVE		OF RIVERS
	ON SUBSURFACE TUBING	APPROVED BY: MPH	#2 PR	* TANANA
STD. R-084	3"=1'-0"	REV:	(ll)	ORTATION DEST



- 1 FINISH GRADE (REFER TO PLANTING PLANS AND SPECIFICATIONS)
- 9 RECYCLED WATER WARNING TAG (PER LOCAL STANDARDS)
- 6" ROUND PURPLE 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 PURPLE LATERAL LINE SIZE X 1/2" FIPT 90 DEGREE ELBOW

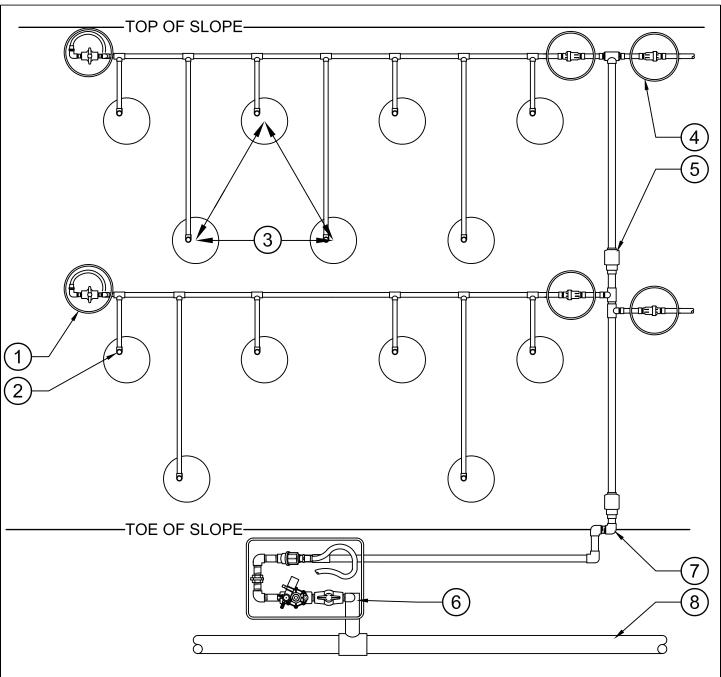
USE ONE AIR/VACUUM RELIEF VALVE PER EVERY 7 GPM ON EACH ZONE. REFER TO MANUFACTURER'S SPECIFICATIONS.





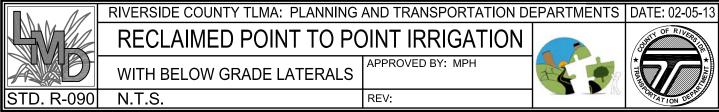
- SHRUB OR GROUNDCOVER (TYPICAL, SEE PLANTING DETAILS)
- (2) 2" 4" BARK MULCH LAYER
- 3 AMENDED SOIL MIX (REFER TO PLANTING SPECIFICATIONS)
- PURPLE SUB-SURFACE TUBING, BURIED INTO SOIL MIN. 2" (REFER TO IRRIGATION LEGEND)
- TUBING STAKE (SEE SPECIFICATIONS FOR SPACING AND MODEL NUMBER)
- PURPLE TUBING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

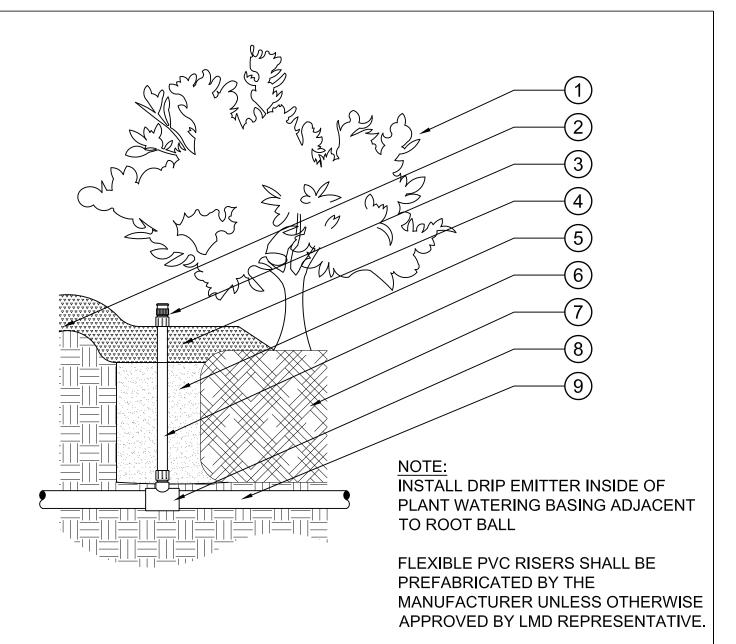
	RIVERSIDE COUNTY TLMA: PLANNING	AND TRANSPORTATION DI	EPARTMENTS	DATE: 02-05-13
	RECLAIMED SUBSURFACE TUBING	SPACING AND DEPTH		OF RIVERS
		APPROVED BY: MPH		* India
STD. R-086	1 1/2"=1'-0"	REV:	1/2	ORTATION DEST



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

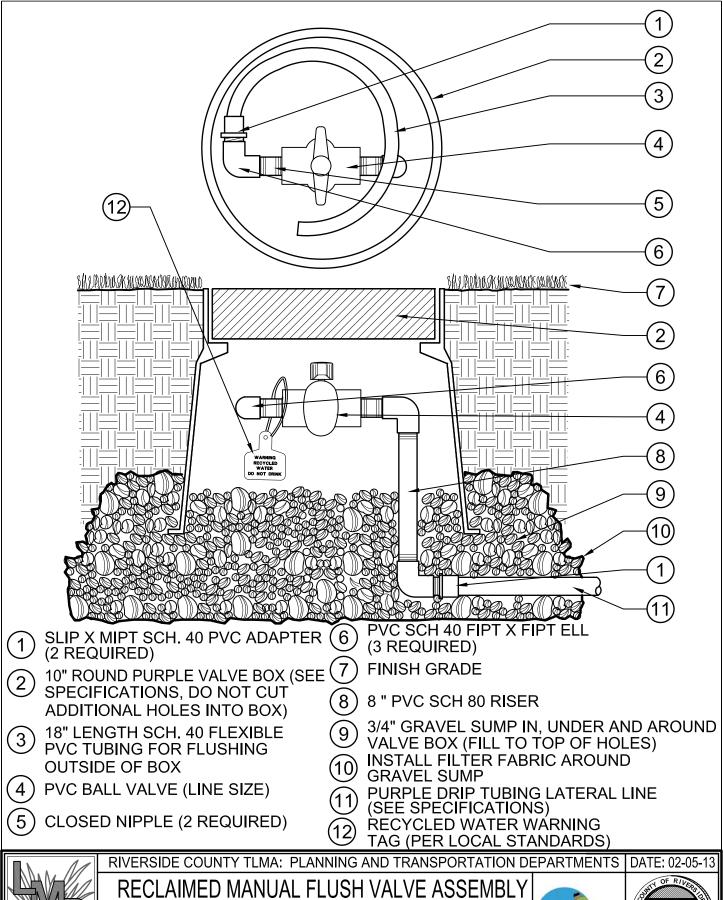
- (5) CHECK VALVE
- 6 DRIP VALVE ASSEMBLY (SEE DETAIL)
- 7 SWING ASSEMBLY FOR SLOPE TRANSITION (IF APPLICABLE)
- 8 PURPLE IRRIGATION PRESSURE SUPPLY LINE



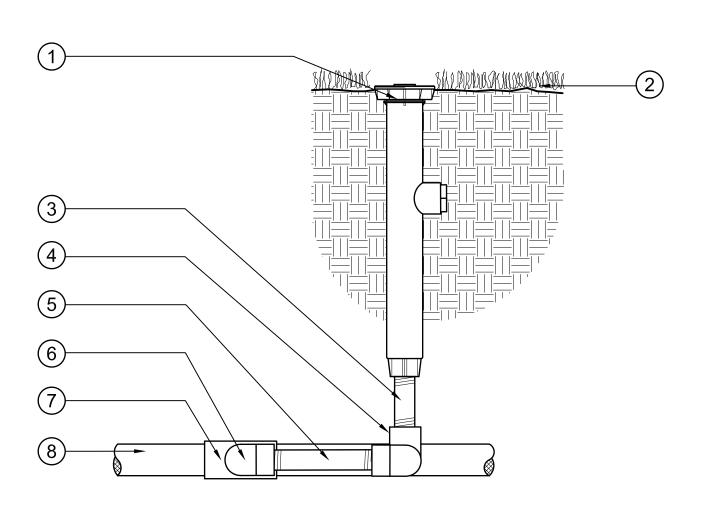


- (1) SHRUB OR GROUNDCOVER
- 2) PLANT WATERING BASIN
- 3 PURPLE EMITTER NOZZLE AND SCREEN, SEE SPECIFICATIONS
- (4) MULCH PER PLANTING DETAILS
- 5) AMENDED BACKFILL
- (6) 1/2" x 12" FLEXIBLE PVC RISER
- (7) PLANT ROOT BALL
- 8 SCH 40 S x S x T TEE (OR ELBOW) (LATERAL SIZE x 1/2" FIPT)
- 9 PURPLE LATERAL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









- 12" POP-UP SPRAY HEAD WITH PURPLE CAP (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)
- 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)

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 DEPARTMENTS			DATE: 02-05-13	
	DRIP OPERATION INDICATOR			OF RIVERS	
	POP-UP TYPE	APPROVED BY: MPH	# 1 m	* TRANS	
STD. R-093	3"=1'-0"	REV:	11/2	OPTATION DEPT	
FILE BLACK PRINCIPLE AND ADDRESS OF THE PRINC					

