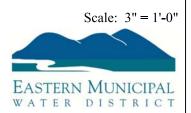
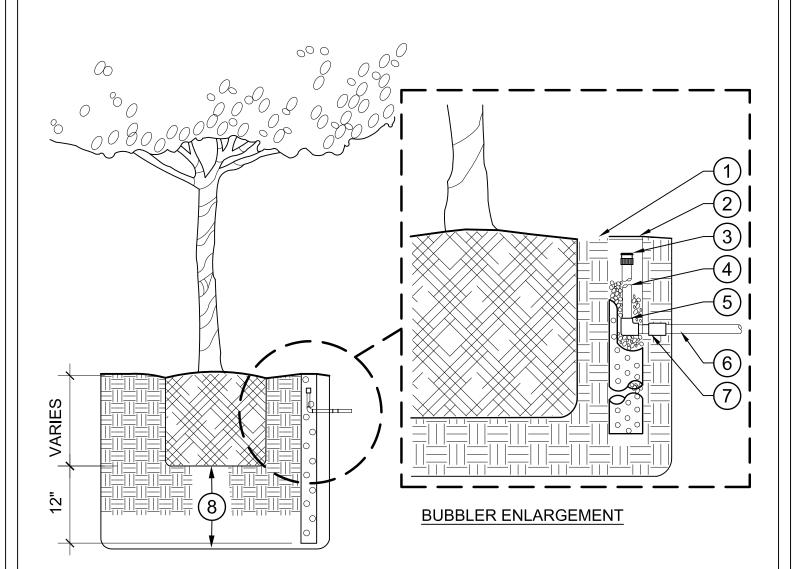


- 6" POP-UP SPRAY HEAD WITH PRECISION SPRAY OR ROTATING NOZZLE AND CHECK VALVE
- 2 ADJACENT HARDSCAPE (IF APPLICABLE)
- PVC SCH. 40 NON-PRESSURE LATERAL LINE (SIZE AS NOTED ON PLAN)
- S x S x T SCH. 40 TEE IN LATERAL LINE (LATERAL SIZE x 1/2" FIPT)
- 5 1/2" FIPT X MIPT SCH 40 90 DEGREE ELBOW (2 REQUIRED)
- $\binom{6}{1/2}$ 1/2" x 8" PVC SCH. 80 NIPPLE
- (7) FINISH GRADE
- (8) 1/2" x 2" PVC SCH. 80 NIPPLE
- 9 1/2" FIPT x FIPT SCH. 40 90 DEGREE ELBOW (1 REQUIRED)

IRRIGATION DETAIL 1 POP-UP SPRAY HEAD



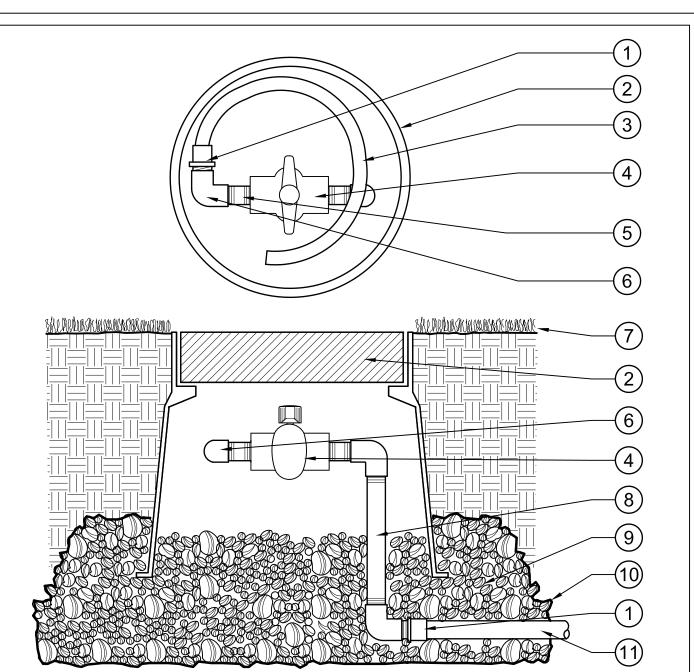


- 1) FINISH GRADE
- SCH 40 PVC 4" PERFORATED RIGID PIPE WITH FILTER SOCK AND 4" GREEN DRAINAGE GRATE CAP FASTEN CAP WITH A MINIMUM OF (2) STAINLESS STEEL SCREWS
- 1 GPM BUBBLER
 INSTALL 1" MINIMUM BELOW DRAIN GRATE
- 4 1/2" MIPT X 1/2" MIPT SCH. 80 NIPPLE (LENGTH AS REQUIRED) (2 REQUIRED)

- 5 1/2" FIPT X 1/2" FIPT SCH. 40 90 DEGREE ELBOW
- 6) IRRIGATION LATERAL LINE
- 7 1/2" FIPT X 1/2" SLIP SCH. 40 FEMALE ADAPTER
- (8) TUBE DEPTH BELOW ROOT BALL 12"

IRRIGATION DETAIL 2 TREE WELL BUBBLER

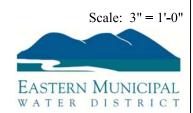


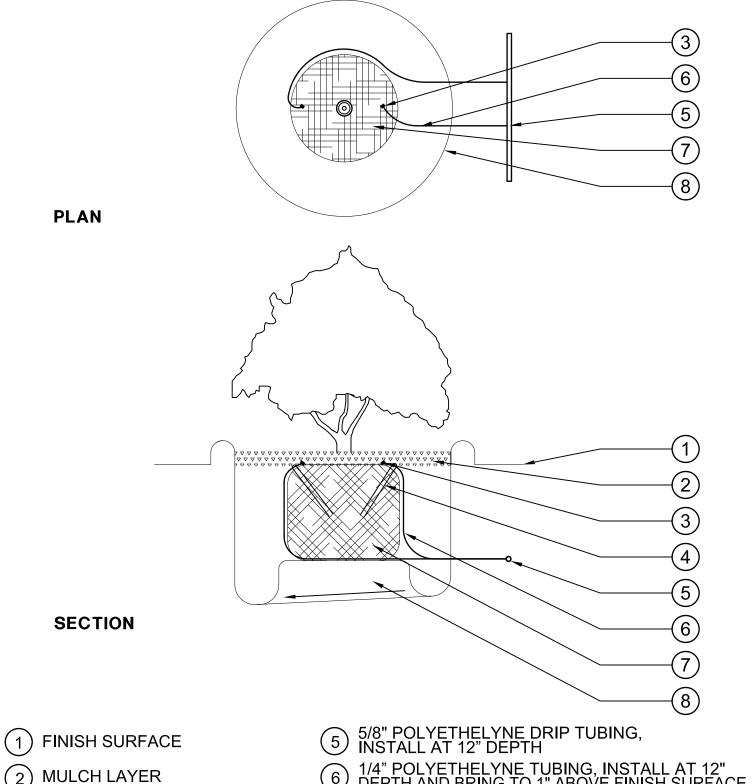


- (2 REQUIRED)
- 2 ROUND VALVE BOX (SEE SPECIFICATIONS, DO NOT CUT ADDITIONAL HOLES INTO BOX)
- 3 18" LENGTH OF 3/4" SCH. 40 FLEXIBLE PVC TUBING FOR FLUSHING OUTSIDE OF BOX
- (4) 3/4" SCH. 40 PVC BALL VALVE
- (5) CLOSED NIPPLE (2 REQUIRED)

- 6 3/4" PVC SCH. 40 FIPT X FIPT ELL (3 REQUIRED)
- (7) FINISH GRADE
- (8) 8" LONG X 3/4" 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)

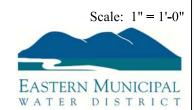
IRRIGATION DETAIL 3 MANUAL FLUSH VALVE

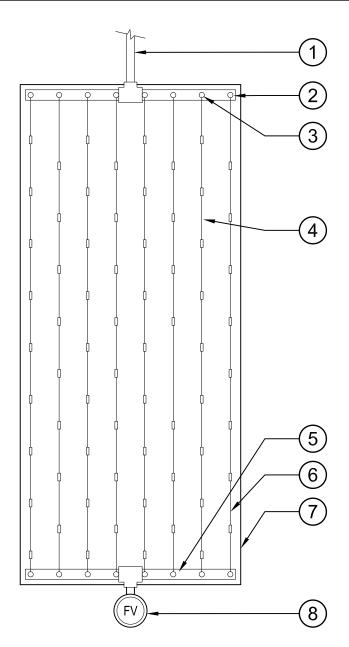




- INSTALL EMITTERS EQUIDISTANT
- AROUND ROOTBALL A MAX OF 1" ABOVE FINISH SURFACE
- **TUBING STAKES (SEE SPECS)**
- 1/4" POLYETHELYNE TUBING, INSTALL AT 12" DEPTH AND BRING TO 1" ABOVE FINISH SURFACE 6)
 - SHRUB ROOTBALL (STAKE EMITTER TUBING TO SHRUB ROOTBALL)
- PLANTING PIT

IRRIGATION DETAIL 4 POINT TO POINT DRIP





- 1 PVC LATERAL LINE FROM ELECTRIC CONTROL VALVE
- (2) PVC SUPPLY MANIFOLD
- (3) MANIFOLD TO ELBOW CONNECTION
- (4) DRIP LINE LATERAL
- (5) PVC FLUSH MANIFOLD
- 6 PERIMETER LATERALS
 12" FROM EDGE
- (7) HARDSCAPE EDGE
- 8 MANUAL FLUSH VALVE PLUMBED TO FLUSH AT LOW POINT

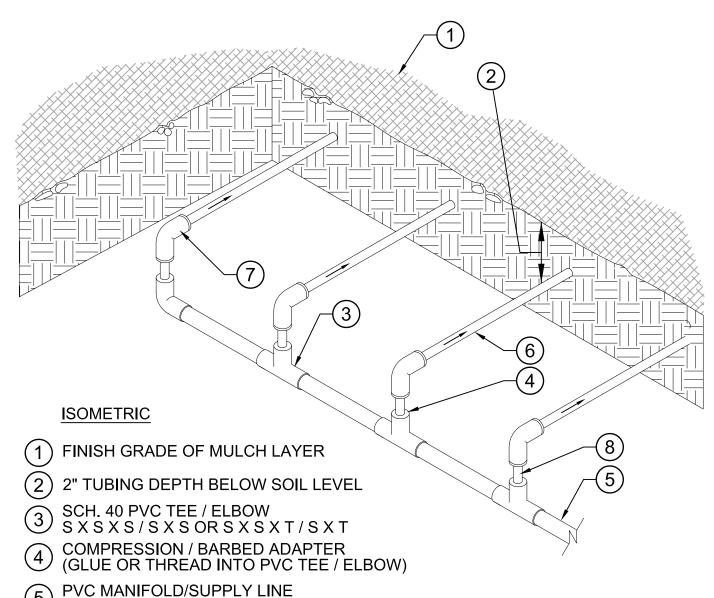
PLAN

NOTES:

- 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 PER MANUFACTURER'S SPECIFICATIONS.

IRRIGATION DETAIL 5
EMITTER TUBING LAYOUT





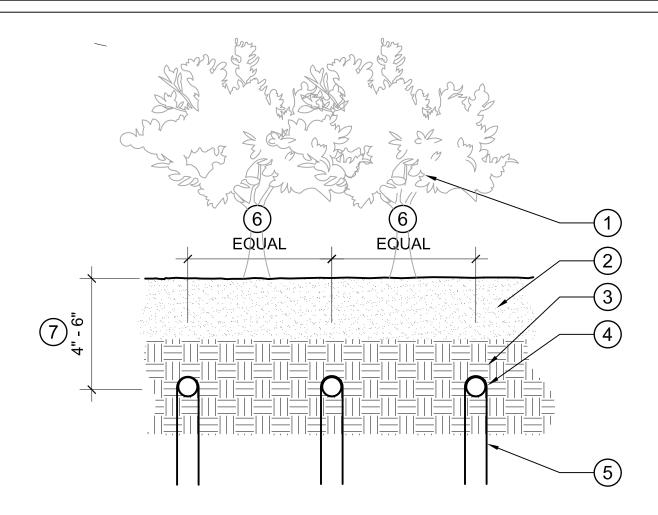
- FROM DRIP VALVE AND FILTER
- DRIP LINE WITH INTEGRAL EMITTERS 2" 4" BELOW FINISH GRADE OF TOP SOIL
- COMPRESSION / BARBED ELBOW
- DRIP LINE

NOTES:

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

IRRIGATION DETAIL 6 EMITTER TUBING ISOMETRIC VIEW EASTERN MUNICIPAL WATER DISTRICT

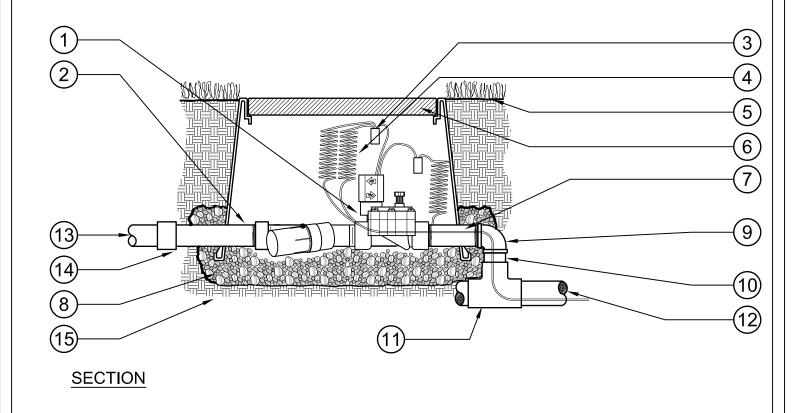




- (1) SHRUB OR GROUNDCOVER
- (2) 2" 4" BARK MULCH LAYER
- (3) AMENDED SOIL MIX
- $oxed{4}$ SUB-SURFACE TUBING, BURIED INTO SOIL 2" 4"
- (5) TUBING STAKE
- 6 TUBING SPACING VARIES 12" 18" ON CENTER BASED ON EMITTER SPACING
- 7 TOTAL TUBING DEPTH 4"-6" BELOW MULCH AND SOIL

IRRIGATION DETAIL 7
TUBING DEPTH AND SPACING

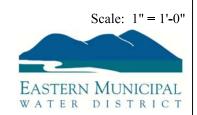


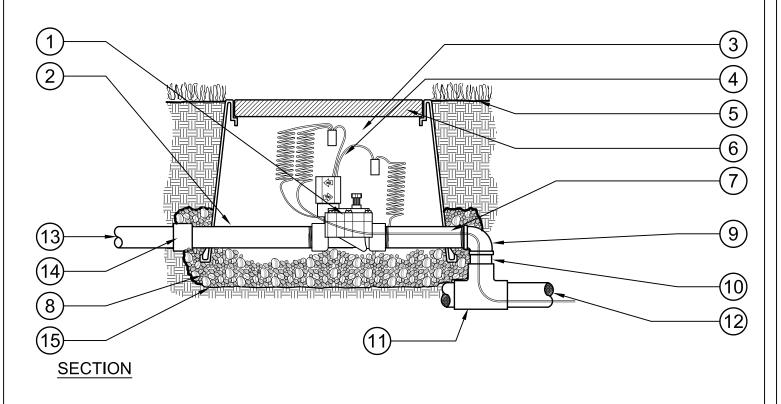


- 1 ELECTRIC DRIP ZONE CONTROL VALVE WITH PRESSURE REGULATOR AND FILTER
- (2) 6" LONG SCH. 80 TOE NIPPLE (LATERAL LINE SIZE)
- 3 CONNECT WIRES TO VALVE USING WATER TIGHT CONNECTORS
- USE 1/2" PVC SCRAP TO WRAP 12" OF ADDITIONAL WIRE BEFORE CONNECTING
- (5) FINISH GRADE
- 6 RECTANGULAR VALVE BOX (DO NOT CUT ADDITIONAL HOLES INTO BOX)
- 7 4" LONG SCH 80 NIPPLE (LATERAL LINE SIZE)

- 8 3/4" GRAVEL SUMP IN, UNDER AND AROUND VALVE BOX. FILL
- 9 SLIP X FIP ELL (LATERAL LINE SIZE)
- 10 PVC PRESSURE SUPPLY LINE (CUT TO FIT MAXIMUM DIMENSION FROM TOP OF VALVE TO TOP OF LID)
- 11 TEE IN PRESSURE SUPPLY LINE (SEE PLAN FOR SIZE)
- PRESSURE SUPPLY LINE (SEE PLAN FOR SIZE)
- (SEE PLAN FOR SIZE)
- 14 SCH. 80 COUPLING (LATERAL LINE SIZE)
- 15 INSTALL FILTER FABRIC AROUND GRAVEL SUMP

IRRIGATION DETAIL 8
DRIP ZONE VALVE ASSEMBLY

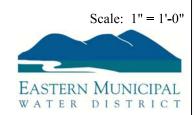


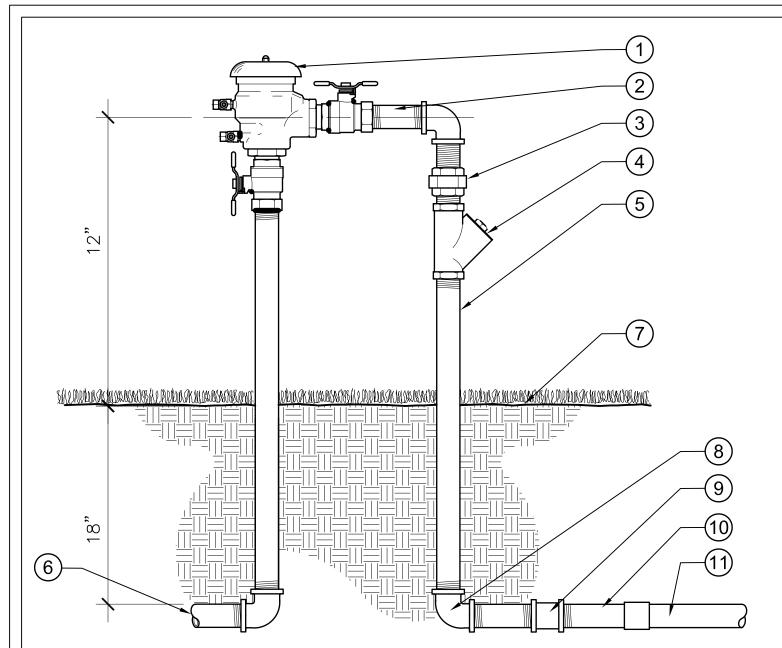


- (1) ELECTRIC REMOTE CONTROL VALVE
- 6" LONG SCH. 80 TOE NIPPLE (LATERAL LINE SIZE)
- 3 CONNECT WIRES TO VALVE USING WATER TIGHT CONNECTORS
- USE 1/2" PVC SCRAP TO WRAP 12" OF ADDITIONAL WIRE BEFORE CONNECTING
- (5) FINISH GRADE
- 6 RECTANGULAR VALVE BOX (DO NOT CUT ADDITIONAL HOLES INTO BOX)
- 7 4" SCH 80 NIPPLE (LATERAL LINE SIZE)

- 8 3/4" GRAVEL SUMP IN, UNDER AND AROUND VALVE BOX. FILL
- (9) SLIP X FIP ELL (LATERAL LINE SIZE)
- 10 PVC PRESSURE SUPPLY LINE (CUT TO FIT MAXIMUM DIMENSION FROM TOP OF VALVE TO TOP OF LID)
- 11 TEE IN PRESSURE SUPPLY LINE (SEE PLAN FOR SIZE)
- PRESSURE SUPPLY LINE (SEE PLAN FOR SIZE)
- (SEE PLAN FOR SIZE)
- SCH. 80 COUPLING (LATERAL LINE SIZE)
- 15 INSTALL FILTER FABRIC AROUND GRAVEL SUMP

IRRIGATION DETAIL 9
ELECTRIC REMOTE CONTROL VALVE





- PRESSURE VACUUM BREAKER
 OR REDUCED PRINCIPAL BACKFLOW
 IF IRRIGATION EMISSION DEVICES ARE
 ARE INSTALLED ABOVE LEVEL OF BACKFLOW
- 2 BRASS THREADED NIPPLE (LINE SIZE)
- BRASS THREADED UNION (LINE SIZE)
- 4 BRASS WYE STRAINER AND CLOSE BRASS NIPPLE (LINE SIZE)
- 5 BRASS THREADED RISER LINE SIZE, LENGTH VARIES (2 REQUIRED)
- 6 PRESSURE SUPPLY LINE FROM WATER SOURCE

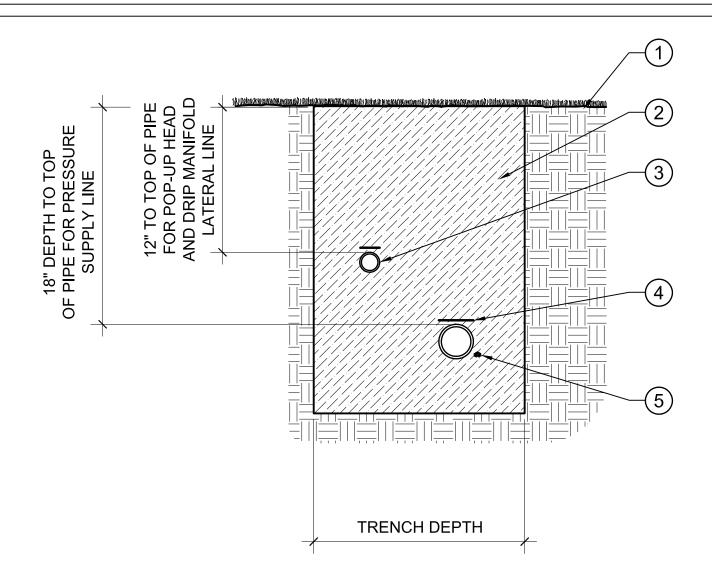
- (7) FINISH SURFACE
- 8 BRASS THREADED ELBOW (LINE SIZE) (2 REQUIRED)
- 9 BRASS THREADED COUPLER (LINE SIZE) (1 REQUIRED)
- 6" LONG SCH. 80 TOE NIPPLE AND SCH. 80 COUPLER (LINE SIZE)
- 11) PVC PRESSURE SUPPLY LINE EXTEND AS SHOWN ON PLAN

NOTE: CONTRACTOR SHALL BE BE RESPONSIBLE FOR CONSTRUCTING PRESSURE VACUUM BREAKER DEVICE IN ACCORDANCE WITH LOCAL WATER DISTRICT REQUIREMENTS.

Scale: 3'' = 1'-0''

IRRIGATION DETAIL 10 PRESSURE VACUUM BREAKER





- (1) FINISH GRADE
- 2 BACKFILL (FREE OF DEBRIS AND ROCK GREATER THAN 1")
- NON-PRESSURE LATERAL LINE FROM POP-UP HEADS
- PRESSURE SUPPLY LINE (SEE PLAN FOR SIZE)
- 5 CONTROL WIRES DIRECT BURIED ADJACENT TO AND TO THE SIDE OF PRESSURE SUPPLY LINE

IRRIGATION DETAIL 11 TRENCH IN LANDSCAPE

