

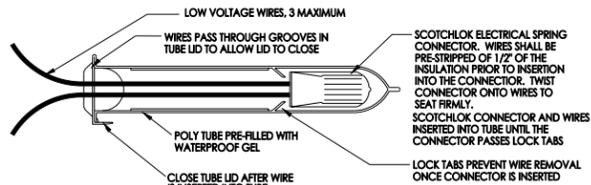
DIMENSION	A	B	C	D
1/2" TO 2-1/2" IN SIZE	24"	18"	18"	6"
3" TO 4" IN SIZE	36"	24"	24"	6"
6" IN SIZE	36"	24"	24"	6"

NOTES:

PVC SLEEVES TO BE TWICE THE DIAMETER OF THE PIPE OR WIRE BUNDLE CARRIED.
DETAIL ALSO FOR PIPE INSTALLED IN ROCK SOIL.

SECTION VIEW - N.T.S.

A SLEEVE INSTALLATION



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

GROUND WIRE	CONTROL WIRE					
	18	16	14	12	10	8
18	1020	1260	1470	1640	1770	1860
16	1260	1630	2000	2330	2610	2960
14	1470	2000	2590	3180	3710	4150
12	1640	2330	3180	4120	5050	5900
10	1770	2610	3710	5050	6540	8030
8	1860	2810	4150	5900	8030	10400
6	1930	2960	4480	6590	9380	12770

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

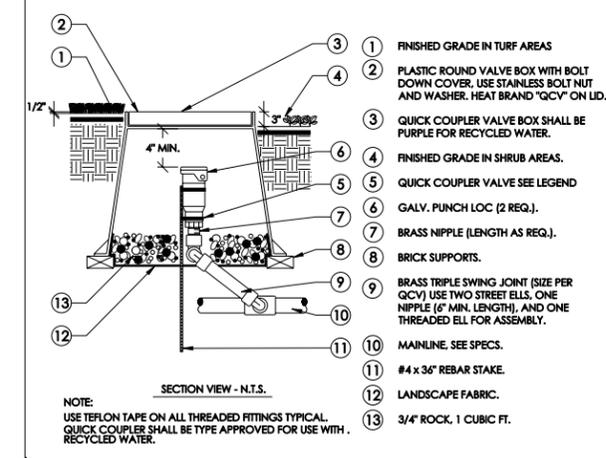
DIRECT BURY SPLICE KIT SHALL BE USED TO ELECTRICALLY CONNECT 2-3 #14 OR 2 #12 PRE-STRIPPED COPPER WIRES. LARGER WIRES OR GREATER QUANTITIES OF WIRES WILL REQUIRE A LARGER APPROVED WIRE CONNECTION.

DIMENSION	A	B	C
1/2" TO 2-1/2" IN SIZE	24"	12"	4"
3" TO 6" IN SIZE	36"	4"	4"

SECTION VIEW - N.T.S.

B WIRE SPLICE

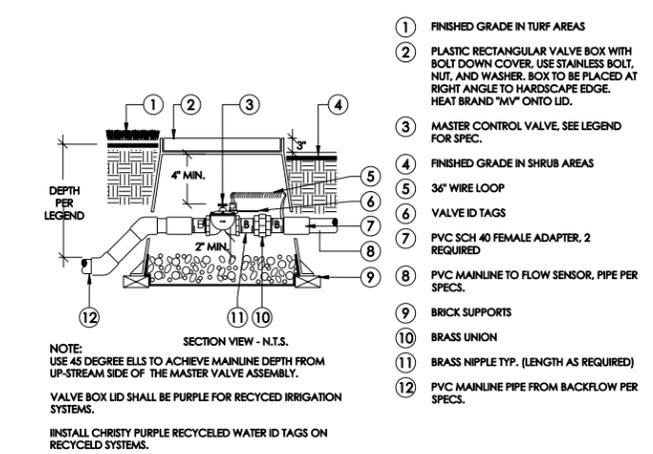
C PIPE INSTALLATION



SECTION VIEW - N.T.S.

NOTE: USE TEFLON TAPE ON ALL THREADED FITTINGS TYPICAL. QUICK COUPLER SHALL BE TYPE APPROVED FOR USE WITH RECYCLED WATER.

D QUICK COUPLER

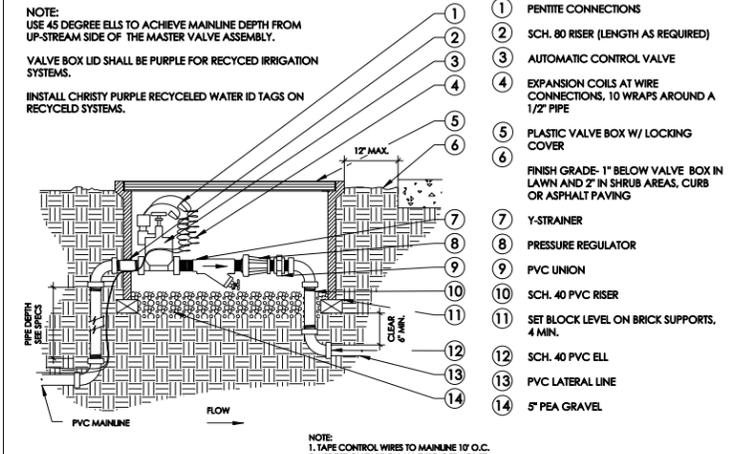


SECTION VIEW - N.T.S.

- 1 FINISHED GRADE IN TURF AREAS
- 2 PLASTIC RECTANGULAR VALVE BOX WITH BOLT DOWN COVER. USE STAINLESS BOLT, NUT, AND WASHER. BOX TO BE PLACED AT RIGHT ANGLE TO HARDSCAPE EDGE. HEAT BRAND "MV" ONTO LID.
- 3 MASTER CONTROL VALVE. SEE LEGEND FOR SPEC.
- 4 FINISHED GRADE IN SHRUB AREAS
- 5 3/8" WIRE LOOP
- 6 VALVE ID TAGS
- 7 PVC SCH 40 FEMALE ADAPTER, 2 REQUIRED
- 8 PVC MAINLINE TO FLOW SENSOR, PIPE PER SPECS.
- 9 BRICK SUPPORTS
- 10 BRASS UNION
- 11 BRASS NIPPLE TYP. (LENGTH AS REQUIRED)
- 12 PVC MAINLINE PIPE FROM BACKFLOW PER SPECS.

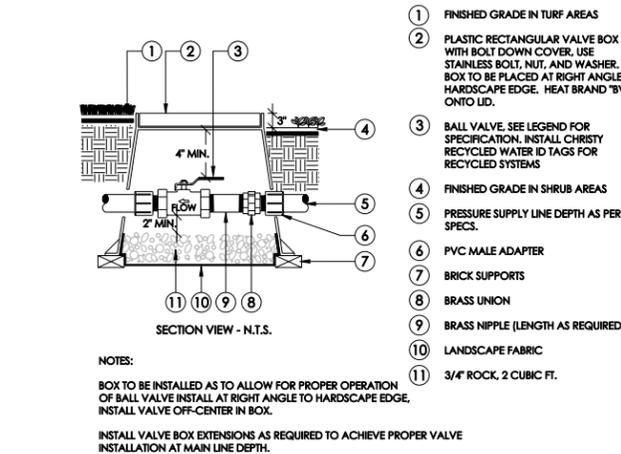
NOTE: USE 45 DEGREE ELBS TO ACHIEVE MAINLINE DEPTH FROM UP-STREAM SIDE OF THE MASTER VALVE ASSEMBLY.
VALVE BOX LID SHALL BE PURPLE FOR RECYCLED IRRIGATION SYSTEMS.
INSTALL CHRISTY PURPLE RECYCLED WATER ID TAGS ON RECYCLED SYSTEMS.

E REMOTE CONTROL VALVE



NOTE: 1. TAPE CONTROL WIRES TO MAINLINE 10/12 O.C. 2. USE TEFLON TAPE ON ALL THREADED JOINTS

F DRIP VALVE ASSEMBLY

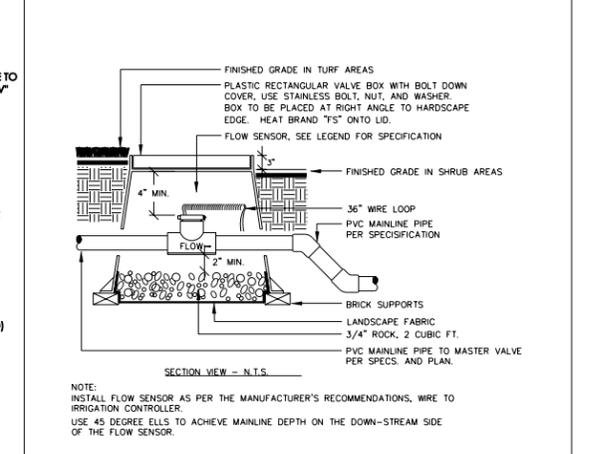


SECTION VIEW - N.T.S.

- 1 FINISHED GRADE IN TURF AREAS
- 2 PLASTIC RECTANGULAR VALVE BOX WITH BOLT DOWN COVER. USE STAINLESS BOLT, NUT, AND WASHER. BOX TO BE PLACED AT RIGHT ANGLE TO HARDSCAPE EDGE. HEAT BRAND "BV" ONTO LID.
- 3 BALL VALVE. SEE LEGEND FOR SPECIFICATION. INSTALL CHRISTY RECYCLED WATER ID TAGS FOR RECYCLED SYSTEMS
- 4 FINISHED GRADE IN SHRUB AREAS
- 5 PRESSURE SUPPLY LINE DEPTH AS PER SPECS.
- 6 PVC MALE ADAPTER
- 7 BRICK SUPPORTS
- 8 BRASS UNION
- 9 BRASS NIPPLE (LENGTH AS REQUIRED)
- 10 LANDSCAPE FABRIC
- 11 3/4" ROCK, 2 CUBIC FT.

NOTE: BOX TO BE INSTALLED AS TO ALLOW FOR PROPER OPERATION OF BALL VALVE. INSTALL AT RIGHT ANGLE TO HARDSCAPE EDGE. INSTALL VALVE OFF-CENTER IN BOX.
INSTALL VALVE BOX EXTENSIONS AS REQUIRED TO ACHIEVE PROPER VALVE INSTALLATION AT MAIN LINE DEPTH.
VALVE BOX LID SHALL BE PURPLE FOR RECYCLED WATER IRRIGATION SYSTEMS

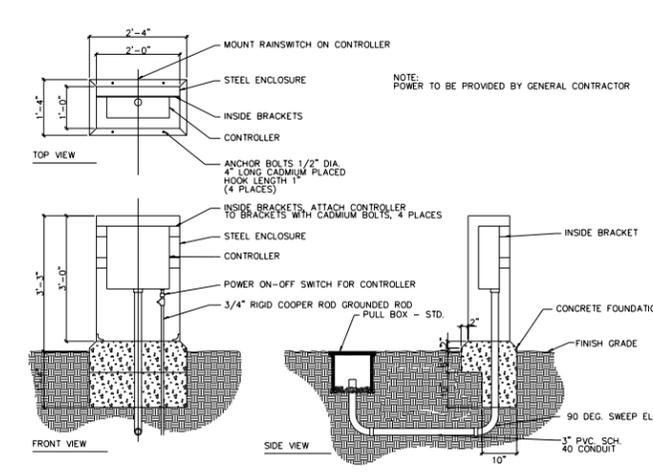
G BALL VALVE



SECTION VIEW - N.T.S.

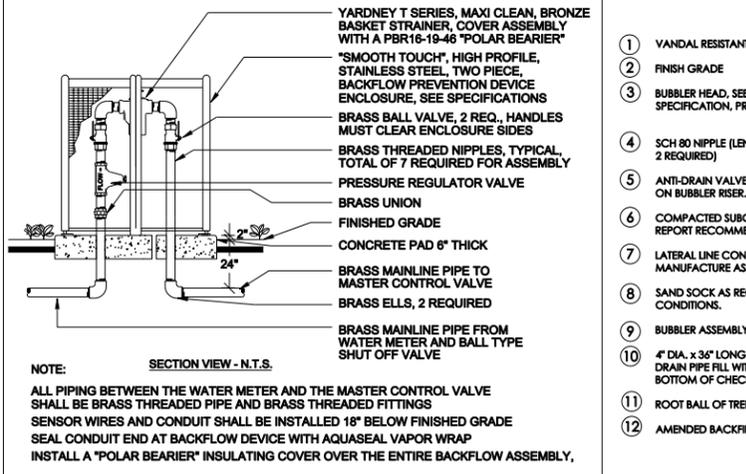
NOTE: INSTALL FLOW SENSOR AS PER THE MANUFACTURER'S RECOMMENDATIONS. WIRE TO IRRIGATION CONTROLLER.
USE 45 DEGREE ELBS TO ACHIEVE MAINLINE DEPTH ON THE DOWN-STREAM SIDE OF THE FLOW SENSOR.

H FLOW SENSOR



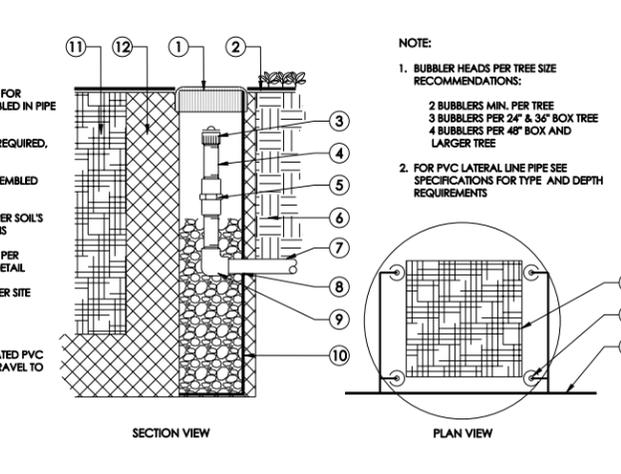
NOTE: POWER TO BE PROVIDED BY GENERAL CONTRACTOR

I CONTROLLER



NOTE: ALL PIPING BETWEEN THE WATER METER AND THE MASTER CONTROL VALVE SHALL BE BRASS THREADED PIPE AND BRASS THREADED FITTINGS. SENSOR WIRES AND CONDUIT SHALL BE INSTALLED 18" BELOW FINISHED GRADE. SEAL CONDUIT END AT BACKFLOW DEVICE WITH AQUASEAL VAPOR WRAP. INSTALL A "POLAR BEARER" INSULATING COVER OVER THE ENTIRE BACKFLOW ASSEMBLY.

J BASKET STRAINER



SECTION VIEW

PLAN VIEW

- 1 VANDAL RESISTANT CAP
- 2 FINISH GRADE
- 3 BUBBLER HEAD, SEE LEGEND FOR SPECIFICATION. PRE-ASSEMBLED IN PIPE
- 4 SCH 80 NIPPLE (LENGTH AS REQUIRED, 2 REQUIRED)
- 5 ANTI-DRAIN VALVE, PRE-ASSEMBLED ON BUBBLER RISER.
- 6 COMPACTED SUBGRADE - PER SOILS REPORT RECOMMENDATIONS
- 7 LATERAL LINE CONNECTION PER MANUFACTURE ASSEMBLY DETAIL
- 8 SAND SOCK AS REQUIRED PER SITE CONDITIONS.
- 9 BUBBLER ASSEMBLY
- 10 4" DIA. x 36" LONG PERFORATED PVC DRAIN PIPE FILL WITH 3/4" GRAVEL TO BOTTOM OF CHECK VALVE
- 11 ROOT BALL OF TREE
- 12 AMENDED BACKFILL

NOTE: 1. BUBBLER HEADS PER TREE SIZE RECOMMENDATIONS:
2 BUBBLERS MIN. PER TREE
3 BUBBLERS PER 24" x 36" BOX TREE
4 BUBBLERS PER 48" BOX AND LARGER TREE
2. FOR PVC LATERAL LINE PIPE SEE SPECIFICATIONS FOR TYPE AND DEPTH REQUIREMENTS

K DEEP ROOT WATER WITH BUBBLER

COLOR CODING NOTE:
SPRINKLERS, ROTOR HEADS AND OTHER TYPES OF DISPERSION HEADS SHALL HAVE THE EXPOSED SURFACE COLORED PURPLE. THE EXPOSED SURFACE SHALL BE COLORED THROUGH THE USE OF INTEGRALLY MOLDED PURPLE PLASTIC OR PERMANENTLY ATTACHED PURPLE PLASTIC RING OR DISC. VALVE BOXES SHALL BE PURPLE PER INDUSTRY STANDARDS. THE LIDS SHALL HAVE THE WARNING "RECYCLED: DO NOT DRINK" IN ENGLISH AND SPANISH AND THE INTERNATIONAL "DO NOT DRINK" ON ONE SIDE AND "PELIGRO: AGUA IMPURA - NO BEBER" ON THE OPPOSITE SIDE. ALL SHRUB HEADS SHALL HAVE PURPLE CAPS.

EMWD CONSTRUCTION NOTE:
EASTERN MUNICIPAL WATER DISTRICT REQUIRES THAT A PRE-CONSTRUCTION CONFERENCE BE SCHEDULED PRIOR TO ANY CONSTRUCTION BY CALLING THE EASTERN MUNICIPAL WATER DISTRICT FIELD ENGINEERING DEPARTMENT AT (818) 928-3777, EXTENSION 4830.

OMISSION STATEMENT:
THERE ARE NO DECORATIVE FOUNTAINS, COMFORT STATIONS, SWIMMING POOLS, PLAYGROUND EQUIPMENT, OR WELLS ON SITE. DRINKING WATER FOUNTAIN, DESIGNATED OUTDOOR EATING AREAS, PICNIC TABLES, BENCHES, ETC. SHALL BE PROTECTED AGAINST CONTACT WITH RECYCLED WATER SPRAY, MIST, OR RUN-OFF. THE POTABLE WATERLINE SUPPLYING THE DRINKING FOUNTAIN MUST HAVE A WARNING BLUE COLORED TAPE IDENTIFYING IT AS A POTABLE WATERLINE AND STATING "CAUTION: BURIED WATERLINE BELOW" INSTALLED OVER IT.

INSTALLATION NOTES:
THE MATERIALS AND THE INSTALLATION OF THE IRRIGATION SYSTEM SHOWN ON THIS PLAN SHALL MEET THE LATEST EMWD STANDARDS AND SPECIFICATIONS FOR DEVELOPER PROTECTION - NO HOSE BIBS WILL BE ALLOWED FOR INSTALLATION ON SYSTEMS USING RECYCLED WATER.

POTABLE & RECYCLED WATER SEPARATION NOTE:
RECYCLED MAINLINE (CONSTANT PRESSURE) SHOWN DIAGRAMMATICALLY FOR CLARITY ONLY. ACTUAL LOCATION MUST PROVIDE A MINIMUM FOUR (4) FEET HORIZONTAL CLEARANCE BETWEEN ALL POTABLE AND CONSTANT PRESSURE RECYCLED WATER LINES. RECYCLED WATER MAINLINE SHOULD BE INSTALLED UNDER POTABLE WATER LINES AND MAINTAIN ONE (1) FOOT OF VERTICAL CLEARANCE. WHERE THE RECYCLED WATER CONSTANT PRESSURE LINE MUST BE INSTALLED ABOVE THE POTABLE WATER LINE, A FOUR (4) INCH MINIMUM VERTICAL CLEARANCE MUST BE MAINTAINED AND THE RECYCLED WATER PRESSURE LINE MUST BE INSTALLED IN A CONTINUOUS PVC CLASS 200 PIPE SLEEVE WHICH EXTENDS A MINIMUM OF TEN (10) FEET EACH SIDE OF THE POTABLE WATER LINE.



EASTERN MUNICIPAL WATER DISTRICT
PERRIS IRRIGATION FACILITY
PERRIS, CALIFORNIA

**IRRIGATION
DETAIL SHEET**

DESIGNED BY: _____
DRAWN BY: _____
CHECKED BY: _____

U.S. ARMY ENGINEER DISTRICT
LOS ANGELES
CORPS OF ENGINEERS

CH2MHILL

DATE: _____

REVISIONS

NO.	DESCRIPTIONS	DATE	APPROVAL

SYMBOL

CADD FILE NAME: PDF502a.dgn

SPEC. NO. 1: NOT APPLICABLE

CHIEF DESIGN BRANCH

DATE: _____

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