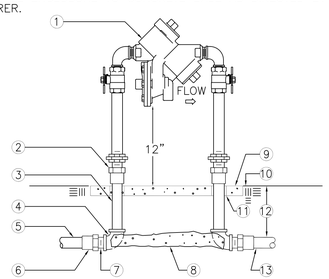
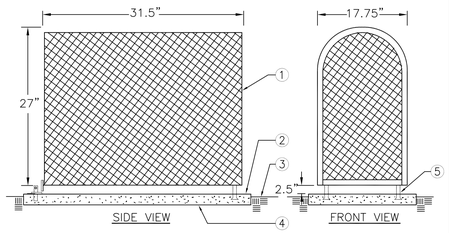
NOTES:
1. INSTALL A FREEZE PREVENTATIVE BLANKET AROUND BACKFLOW ASSEMBLY. BLANKET SHALL BE GREEN AND MANUFACTURED BY STRONGBOX.
2. DO NOT SOLDER CONNECT FITTINGS WHILE THREADED INTO BACKFLOW ASSEMBLY. DAMAGE MAY OCCUR.
3. NIPPLES AND FITTINGS TO BE SAME IPT SIZE AS BACKFLOW ASSEMBLY.
4. PROVIDE A STRONG BOX SBBC-30SS OR ACCEPTED EQUAL 32"x 30"x 18" BACKFLOW PREVENTER ENCLOSURE TO COMPLETELY ENCLOSE DEVICE. INSTALL ENCLOSURE TO CONCRETE BASE AS DIRECTED BY MANUFACTURER.



1. REDUCED PRESSURE BACKFLOW ASSEMBLY
2. WROT COPPER MALE ADAPTER-2 TOTAL (SOLDER X THREAD CONNECTION)
3. COPPER TYPE "K" PIPE (LENGTH AS REQUIRED)
4. WROT COPPER 90° ELBOW-2 TOTAL (SOLDER X THREAD CONNECTION)
5. PVC MAIN LINE TO POINT OF CONNECTION
6. BUSH AS NECESSARY FOR SIZE TRANSITION
7. SCHEDULE 40 PVC MALE ADAPTER-2 TOTAL
8. CONCRETE SUPPORT BLOCK
9. CONCRETE PAD-SEE ENCLOSURE DETAIL
10. FINISH GRADE
11. PVC SLEEVE BOTH SIDES
12. REFER TO IRRIGATION LEGEND
13. PVC MAIN LINE TO IRRIGATION SYSTEM

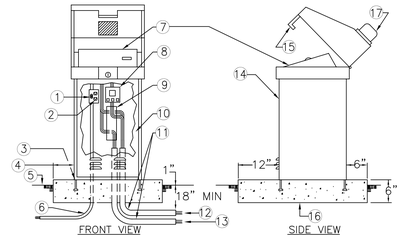
1 REDUCED PRESSURE BACKFLOW ASSEMBLY
SCALE: NONE
DET: RPB-1



1. STAINLESS STEEL ENCLOSURE
2. SET PAD 1/2" ABOVE FINISH GRADE
3. FINISH GRADE
4. 6" THICK CLASS "B" CONCRETE PAD FOR ENCLOSURE SUPPORT TO EXTEND 6" BEYOND ENCLOSURE ON ALL SIDES. CONCRETE TO HAVE MEDIUM BROOM FINISH.
5. MOUNTING BRACKETS (STANDARD WITH ENCLOSURE) TO BE SET INTO CONCRETE PAD. PROVIDE LOCKING TAB TO ACCEPT PADLOCK PER MANUFACTURE'S INSTRUCTION.

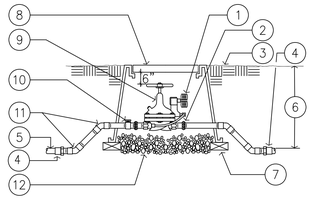
2 BACKFLOW PREVENTER ENCLOSURE
SCALE: NONE
DET: ENC-SMOOTH

NOTES:
1. PROVIDE (CONTRACTOR) #10 BARE COPPER GROUND WIRE AND 5/8" DIA. COPPER CLAD GROUNDING ROD(S) AS DIRECTED BY MANUFACTURER.
2. UNIT IS TO BE ASSEMBLED, WIRED, AND TESTED BY A MANUFACTURER TRAINED VENDOR.
3. INSTALL (CONTRACTOR) ENCLOSURE TO CONCRETE PAD AS DIRECTED BY ENCLOSURE MANUFACTURER.
4. INSTALL SLAB LEVEL.
5. PROVIDE SLOPE TO TOP OF SLAB SURFACE FOR DRAINAGE.
6. PROVIDE FINISH AND COLOR TO CONCRETE ACCORDING TO SECTION 02520, PORTLAND CEMENT CONCRETE PAVING.



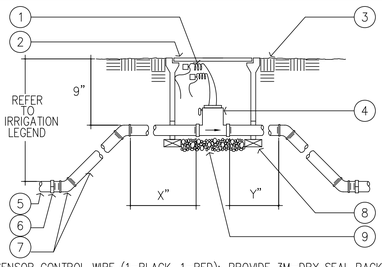
1. ON/OFF SWITCH FOR SATELLITE CONTROLLER
2. GFCI PROTECTED 120 VAC 15AMP RECEPTACLES
3. MOUNT ASSEMBLY (CONTRACTOR) TO MOUNTING STUDS INCLUDED WITH ENCLOSURE
4. 6" TYP. BOTH SIDES
5. FINISH GRADE
6. INSTALL (CONTRACTOR) RIGID STEEL CONDUIT FOR 120 VAC SERVICE
7. SATELLITE CONTROLLER MOUNTED ON PANEL OF ENCLOSURE
8. FLOW MONITOR
9. TERMINAL STRIP WITH PLACARDS FOR STATION IDENTIFICATION
10. REMOVABLE FRONT PANEL
11. INSTALL (CONTRACTOR) SCHEDULE 40 GREY PVC ELECTRICAL CONDUITS(2) WITH SWEEP ELL FOR LOW VOLTAGE WIRE, SIZE AS REQUIRED AND EXTEND 12" BEYOND CONCRETE SLAB.
12. LOW VOLTAGE WIRE
13. COMMUNICATION WIRE
14. STAINLESS STEEL ENCLOSURE
15. FLIP TOP LID
16. INSTALL (CONTRACTOR) CONCRETE SLAB
17. RADIO ANTENNA (WHERE SPECIFIED)

3 CONTROLLER IN ENCLOSURE
SCALE: NONE
DET: Flip-top



1. VALVE CONTROL WIRE(1-BLUE, 1-WHITE) - PROVIDE 3M-DBY SEAL PACKS AT ALL SPLICES AND 36" OF EXCESS UF WIRE IN A 1" DIAMETER COIL
2. SCHEDULE 80 PVC THREADED UNION (2 TOTAL)
3. FINISH GRADE
4. SCHEDULE 80 PVC MALE ADAPTER (2 TOTAL)
5. PVC MAIN LINE
6. REFER TO IRRIGATION LEGEND
7. BRICK - 1 EACH CORNER OF VALVE BOX
8. RECTANGULAR PLASTIC VALVE BOX WITH BOLT DOWN LID. ONE VALVE PER BOX - NO EXCEPTIONS. INSTALL BOX AS SHOWN IN BOX INSTALLATION DETAIL. TOP DIMENSION AS FOLLOWS:
   A. FOR 2" AND SMALLER MASTER CONTROL VALVES INSTALL A VALVE BOX WITH AN OUTSIDE TOP DIMENSION OF 11 3/4" X 17" X 12" DEEP.
   B. FOR 2 1/2" & LARGER MASTER CONTROL VALVES INSTALL A VALVE BOX WITH A MINIMUM OUTSIDE TOP DIMENSION OF 16" X 25 1/2" X 15" DEEP.
9. MASTER CONTROL VALVE WITH FLOW CONTROL AND MANUAL BLEED
10. THREADED BRONZE BALL VALVE IN 1 1/2" AND SMALLER ASSEMBLIES, THREADED BRONZE GATE VALVE IN 2" AND LARGER ASSEMBLIES. 1 1/2" AND LARGER TO BE CONTAINED IN SEPARATE ROUND BOX - UP STREAM.
11. SCHEDULE 80 PVC NIPPLES (TBE) AND 45 THREADED ELBOWS (TYPICAL FOR BOTH SIDES OF VALVE)
12. 3/4" DRAIN ROCK - 4" DEEP BELOW VALVE (NO SOIL IN VALVE BOX).
13. SENSOR WIRE FROM CONTROLLER TO VALVE BOX IS TO BE INSTALLED IN A 1.5" SCHEDULE 80 PVC CONDUIT WITH PULL BOXES AT 200' OR LESS.

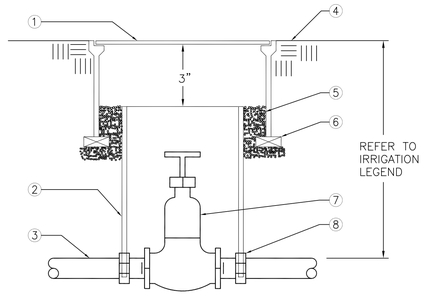
4 MASTER VALVE
SCALE: NONE
DET: ----



1. SENSOR CONTROL WIRE (1-BLACK, 1-RED): PROVIDE 3M-DBY SEAL PACKS AT ALL SPLICES AND 36" OF EXCESS U.F. WIRE IN A 1" DIAMETER COIL
2. RECTANGULAR PLASTIC VALVE BOX WITH BOLT DOWN LID: TOP DIMENSION 11 3/4" X 17" (12" DEEP)
3. FINISH GRADE
4. DATA INDUSTRIAL FLOW SENSOR - WIRE TO CONTROLLER AS DIRECTED BY MANUFACTURER'S REPRESENTATIVE (SIZE AS SPECIFIED)
5. PVC MAINLINE
6. UPC APPROVED SCHEDULE 80 PVC MALE ADAPTER (2 TOTAL)
7. SCHEDULE 80 PVC THREADED NIPPLES AND 45° ELBOWS (AS REQUIRED ON BOTH SIDES OF SENSOR)
8. BRICK - 1 EACH CORNER OF VALVE BOX
9. 3/4" DRAIN ROCK - 4" DEEP BELOW SENSOR (NO SOIL IN BOX).
10. SENSOR WIRE FROM CONTROLLER TO VALVE BOX IS TO BE INSTALLED IN A 1.5" SCHEDULE 80 PVC CONDUIT WITH PULL BOXES AT 200' OR LESS..

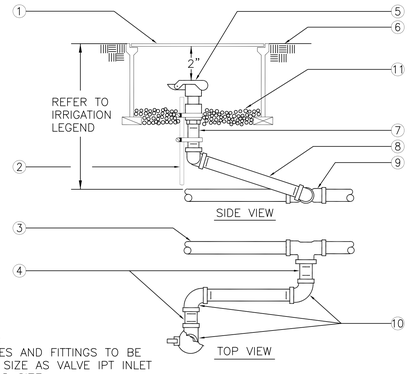
NOTE:
THE CONTRACTOR SHALL INSTALL FLOW SENSOR TO ALLOW STRAIGHT-FLOW OF A MINIMUM OF TEN TIMES THE DIAMETER OF MAINLINE PIPE ON THE INLET (X) SIDE AND FIVE TIMES THE DIAMETER OF MAINLINE PIPE ON THE OUTLET (Y) SIDE OF THE SENSOR. REFER TO DATA INDUSTRIAL INSTALLATION RECOMMENDATIONS.

5 FLOW SENSOR
SCALE: NONE
DET: FL_SENSOR_DAT



1. ROUND PLASTIC VALVE BOX WITH BOLT DOWN LID. TOP DIMENSION: 10".
2. 8" CLASS 160 OR SCHEDULE 40 PVC PIPE (NOTCH TO FIT OVER MAIN LINE PIPE)
3. PVC MAIN LINE
4. FINISH GRADE
5. 3/4" DRAIN ROCK
6. BRICK-2 TOTAL
7. GATE VALVE
8. SCHEDULE 40 PVC MALE ADAPTER

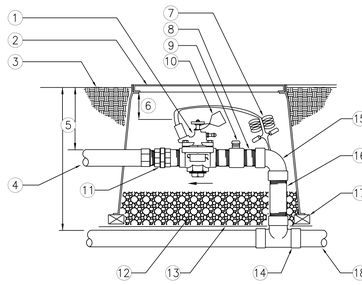
6 GATE VALVE-3" AND SMALLER
SCALE: NONE
DET: SGVD



NOTE:
NIPPLES AND FITTINGS TO BE SAME SIZE AS VALVE IPT INLET THREAD SIZE

1. ROUND PLASTIC VALVE BOX WITH BOLT DOWN LID. TOP DIMENSION: 10".
2. 1 1/4" x 1 1/4" x 3/16" ANGLE IRON 30" LONG W/2 STAINLESS STEEL STRAPS (ONE AROUND QCV)
3. PVC MAIN LINE
4. 3" LONG SCHEDULE 80 PVC THREADED NIPPLE
5. QUICK COUPLING VALVE
6. FINISH GRADE
7. SCHEDULE 80 PVC THREADED NIPPLE
8. 10" LONG SHCEDULE 80 PVC THREADED NIPPLE
9. UPC APPROVED SCHEDULE 40 PVC TEE OR ELBOW
10. SCHEDULE 80 PVC THREADED 90° ELL
11. 3/4" DRAIN ROCK

7 QUICK COUPLING VALVE
SCALE: NONE
DET: QUICK-C2



1. REMOTE CONTROL VALVE WITH FLOW CONTROL AND MANUAL BLEED AND PRESSURE REGULATOR
2. RECTANGULAR CONCRETE VALVE BOX. ONE VALVE PER BOX- NO EXCEPTIONS.
3. FINISH GRADE
4. PVC LATERAL LINE
5. REFER TO IRRIGATION LEGEND
6. 3" MIN 6" MAX
7. VALVE CONTROL WIRE- PROVIDE 3M-DBY SEAL PACKS AT ALL SPLICES AND 36" OF EXCESS UF WIRE IN A 1" DIAMETER COIL
8. SCHEDULE 80 PVC NIPPLE
9. KBI SCHEDULE 80 PVC BALL VALVE (ONE PER VALVE OR PER VALVE MANIFOLD)
10. VALVE I.D. TAG (CONTROLLER AND STATION NUMBER).
11. SCHEDULE 80 PVC THREADED UNION
12. 3/4" DRAIN ROCK- 4" DEEP BELOW VALVE (NO SOIL IN VALVE BOX)
13. 22 GAUGE 1" SQUARE WIRE MESH
14. UPC APPROVED SCHEDULE 40 PVC TEE
15. SCHEDULE 80 PVC 90° ELBOW (SXT)
16. SCHEDULE 80 PVC NIPPLE- LENGTH AS REQUIRED.
17. BRICK-1 EACH CORNER
18. PVC MAIN LINE

8 REMOTE CONTROL VALVE
SCALE: NONE
DET: RCV

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REVIEWED BY: _____ DATE: _____

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NORTH
GATEWAY

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& SITE WALL

1700
West Hillsdale Blvd
San Mateo, CA
94402

REGISTERED LANDSCAPE ARCHITECT
KEVIN MICHAEL SULLIVAN
Signature
NO. 2188
RENEWAL 5-31-12
Date
STATE OF CALIFORNIA

PROJECT
RECORD
DOCUMENT

SHEET TITLE
IRRIGATION DETAILS

REVISIONS

NO.	DATE	DESCRIPTION

DATE FEBRUARY 24, 2012
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JOB NO. 28066.10

SHEET NUMBER
L5.05