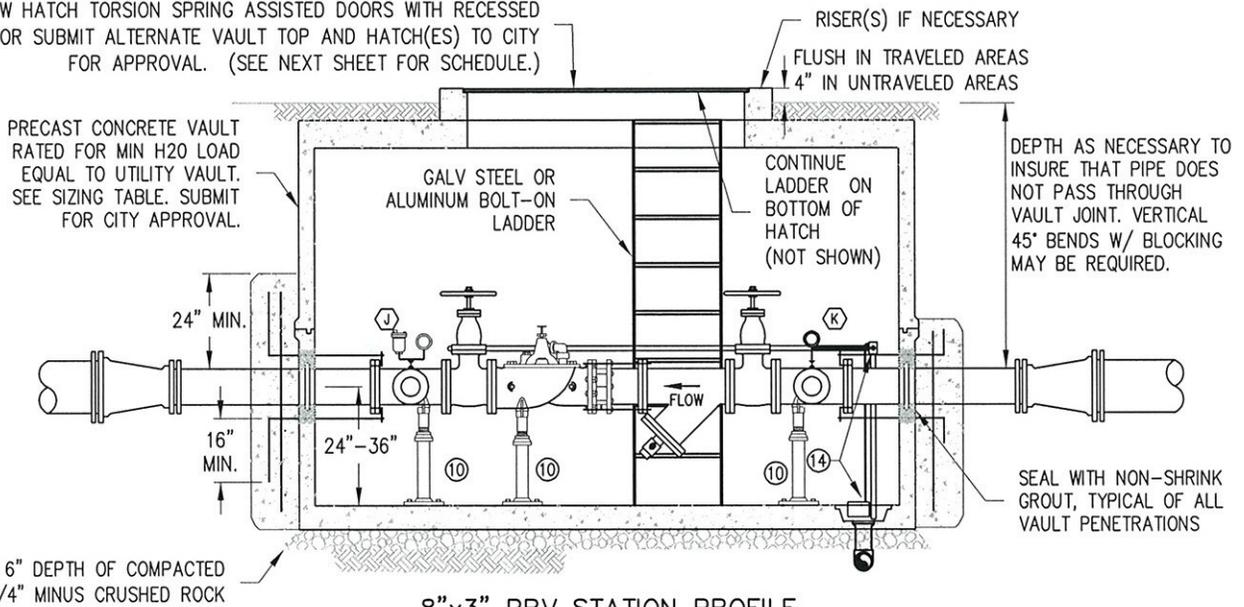


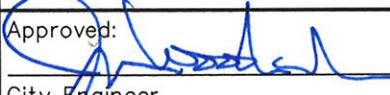
8"x3" PRV STATION PLAN

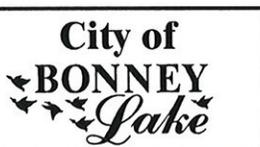
DOUBLE 4'x6' CLEAR OPENING H20-RATED ALUMINUM ACCESS HATCH EQUAL TO LW HATCH TORSION SPRING ASSISTED DOORS WITH RECESSED LOCK HASP, OR SUBMIT ALTERNATE VAULT TOP AND HATCH(ES) TO CITY FOR APPROVAL. (SEE NEXT SHEET FOR SCHEDULE.)



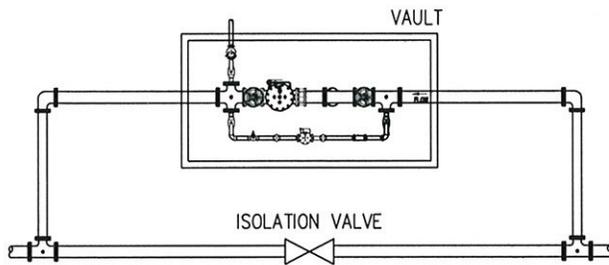
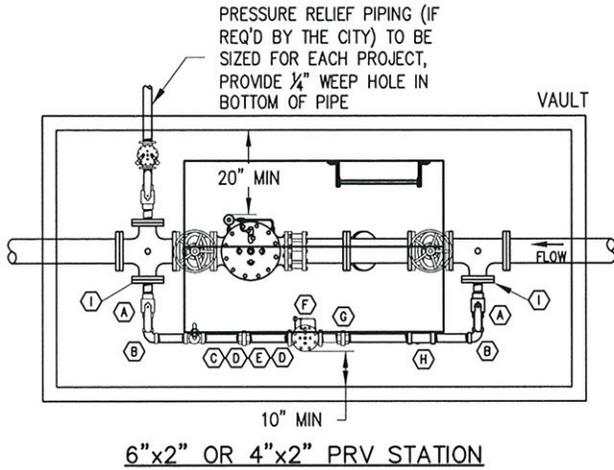
8"x3" PRV STATION PROFILE

- | | | |
|---|--|--|
| <ul style="list-style-type: none"> ① DI PIPE, LENGTH TO FIT ② DI REDUCER (MxMJ) ③ DI SPOOL WITH COLLAR (FLxPE) LTF ④ DI REDUCING CROSS (FLxFLx4"FLx4"FL) w/1" TAP ON TOP ⑤ RS GATE VALVE (FLxFL) w/HAND WHEEL ⑥ PRESSURE REDUCING VALVE (FLxFL) EQUAL TO CLA-VAL 90G-01ABS OR CITY APPROVED EQUAL, EPOXY LINING, VALVE POSITION INDICATOR, POLY PILOT LINES. ⑦ FCA w/SHACKLE RESTRAINT ⑧ DI PIPE (FLxPE) APPROX. 12" LENGTH | <ul style="list-style-type: none"> ⑨ STRAINER (FLxFL) EQUAL TO WATTS 77F-D-FDA, EPOXY LINED AND BRASS BALL VALVE FOR BLOW OUT ⑩ ADJUSTABLE SADDLE PIPE SUPPORT, RISER PIPE, AND BASE EQUAL TO GRINNELL FIGURE 264. ALSO PROVIDE (1) UNDER BYPASS LINE ⑪ RS GATE VALVE (FLxFL) W/ HAND WHEEL ⑫ PRESSURE RELIEF VALVE (FLxFL) EQUAL TO CLA-VAL 50G-01, EPOXY LINING, VALVE POSITION INDICATOR, POLY PILOT LINES ⑬ FCA ⑭ HYDRAMATIC PUMP GC SYSTEMS MODEL #996633-51-2 W/ FLOAT SWITCH (IF REQUIRED, SEE NOTES ON W-19b) ⑮ 1" PVC SCH-40 PUMP DISCHARGE PIPE SECURED TO VAULT WALL | <ul style="list-style-type: none"> Ⓐ 4" RS GATE VALVE (FL) W/ HAND WHEEL Ⓑ 4" DI 90° BEND (FL) Ⓒ 4"x3" DI REDUCER Ⓓ 3" DI PIPE (FL) 36" LENGTH Ⓔ PRESSURE REDUCING VALVE (FLxFL) EQUAL TO CLA-VAL, 90G-01ABS. EPOXY LINING, VALVE POSITION INDICATOR, POLY PILOT LINES. Ⓕ FCA Ⓖ 4" DI PIPE (FLxPE) LTF Ⓗ STRAINER (FL) EQUAL TO WATTS 77F-D-FDA AND BRONZE BALL VALVE FOR BLOW OUT Ⓙ PRESSURE GAUGE AND AIR VALVE, SEE W-19b Ⓚ PRESSURE GAUGE, SEE W-19b |
|---|--|--|

Approved:  June 17, 2005
 City Engineer Date
 WATER SYSTEM STANDARD DETAIL



Dwg No: **W18**
PRESSURE REDUCING STATION



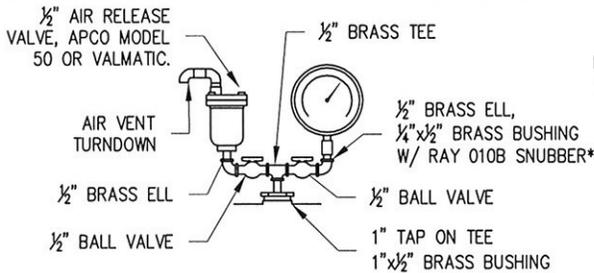
OFFLINE PRV STATION CONFIGURATION

SIZING TABLE					
Main Line	Main PRV	Bypass Line	Pressure Relief	Utility Vault	Locking Steel Covers
12"	8"	3"	Sized for Project	712-LA	L W PRODUCTS "HD-2C"
10"	8"	3"		712-LA	L W PRODUCTS "HD-2C"
8"	6"	2"		612-LA	L W PRODUCTS "HD-2C"
6"	4"	2"		612-LA	L W PRODUCTS "HD-2C"

- SEE SHT 3 FOR ADDITIONAL STATION INFORMATION.
- PREP ALL SURFACES PER PAINT MANUFACTURER'S INSTRUCTIONS PRIOR TO APPLICATION. REMOVE ALL DIRT, GREASE, SCALE AND RUST. FACTORY COATINGS SHALL BE ROUGHENED TO PROVIDE ADEQUATE PROFILE FOR TOP COATS.
- COAT INTERIOR WALLS, DI PIPE, FITTINGS AND STEEL FASTENERS WITH POLYIMIDE EPOXY PAINT, 2 COATS AT 5 DRY MILS EACH. COLORS: OFF WHITE FOR WALLS, LIGHT BLUE FOR PIPE. PIPE SHALL BE EMPTY DURING COATING.
- COAT VAULT EXTERIOR WITH 20 MIL COAL TAR EPOXY.
- PROVIDE VAULT DRAINAGE EITHER BY:
 - 4" SCH 40 PVC DRAIN TO DAYLIGHT OR STORM SYSTEM, or
 - GC SYSTEMS HYDROMATIC (WATER-POWERED) PUMP MODEL #996633-51-2.
- ALL BALL VALVES AND CURB STOP SHALL BE FULL-PORT.
- ALL FASTENERS SHALL BE STAINLESS STEEL.

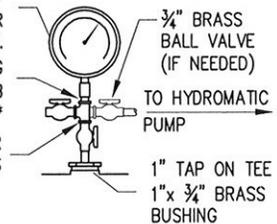
- (A) 2" BRASS BALL VALVE (THREADED)
- (B) 2" BRASS 90° BEND (THREADED)
- (C) 2" BRASS TEE (THREADED)
3/4" HOSE BIB
- (D) 2" BRASS THREADxCOMPRESSION ADAPTOR
- (E) 2" BRASS PIPE, LTF
- (F) PRESSURE REDUCING VALVE (THREADED) EQUAL TO CLA-VAL, 90G-01ABS. EPOXY LINING, VALVE POSITION INDICATOR, POLY PILOT LINES AND STAINLESS STEEL TRIM.
- (G) 2" BRASS UNION
- (H) STRAINER (THREADED) EQUAL TO WATTS 777S AND BRONZE BALL VALVE FOR BLOW OUT
- (I) 4" DI BLIND FLANGE w/2" TAP

USE THREADED BRASS NIPPLES (NOT CALLED OUT) ON BYPASS AND PRESSURE RELIEF PIPING. USE CLOSE NIPPLES WHEREVER POSSIBLE.



GAUGE & AIR VALVE

PRESSURE GAUGE w/4 1/2" FACE, OVERALL ACCURACY ± 1/2% OF FULL SCALE. RANGE 0-200 psi OR AS OTHERWISE APPROVED BY CITY.
3/4"x1/4" BRASS BUSHING W/ 1/4" RAY 010B SNUBBER*
3/4" BRASS TEE OR CROSS

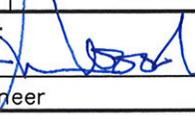


GAUGE

*OR APPROVED EQUAL

NOTE, BRASS NIPPLES NOT CALLED OUT, PROVIDE AS NECESSARY.

2	Added Offline PRV Station	12/25/06
1	Added PRV Piping Note	7/26/05
Rev No.	Revisions	Date

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WATER SYSTEM STANDARD DETAIL



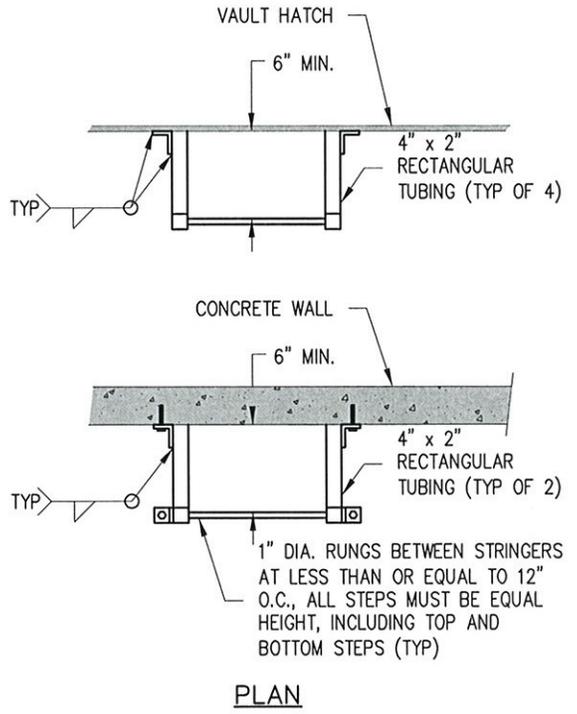
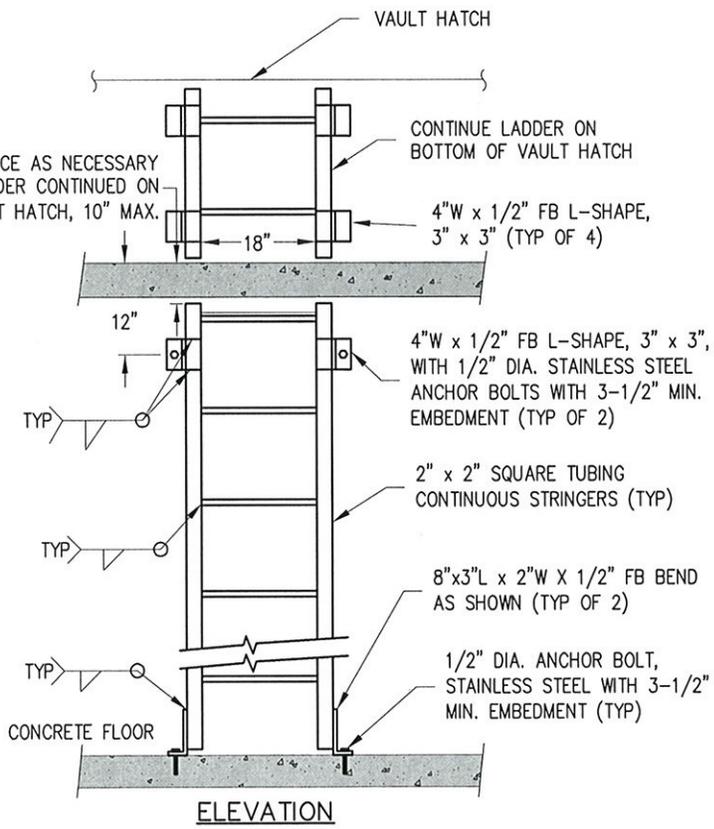
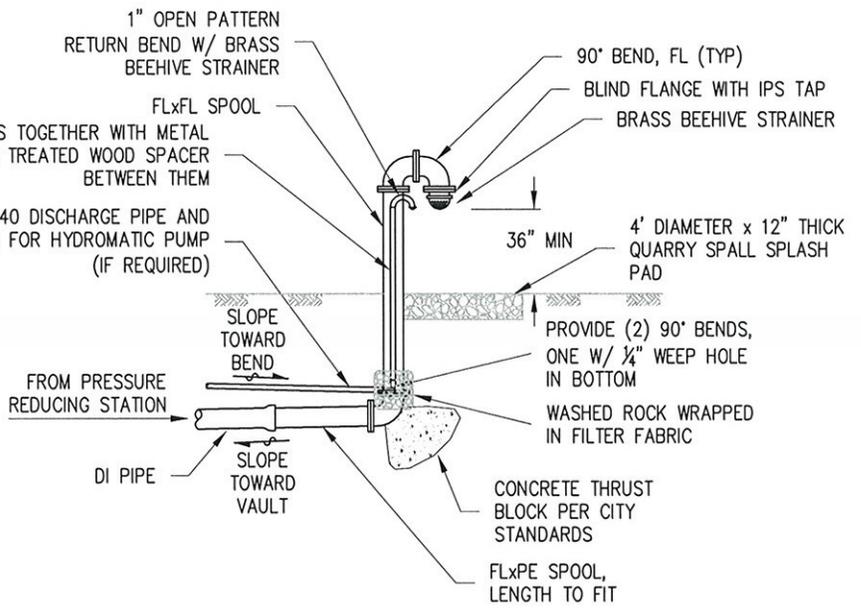
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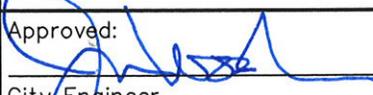
W18

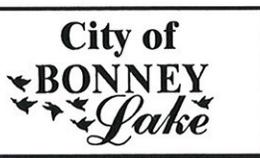
PRESSURE REDUCING STATION

NOTES

1. PIPING SHALL BE SIZED AND LOCATED BY THE CITY FOR EACH INDIVIDUAL PROJECT. CONVEYANCE MAY BE REQUIRED FROM DISCHARGE LOCATION TO APPROVED DOWNSTREAM SYSTEM.
2. DI PIPING SHALL BE CLASS 52 CEMENT LINED DUCTILE IRON.
3. PAINT ALL EXPOSED PIPING AND FITTINGS ABOVE GRADE RUSTOLEUM SAFETY YELLOW. BASE No. 288-14, COLOR CODE AX-6732, T-4432, OR PER CITY ENGINEER.



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