1. Sizing Table

<table>
<thead>
<tr>
<th>Line</th>
<th>PRV</th>
<th>Line Relief</th>
<th>Vault</th>
<th>Main Main Bypass</th>
<th>Pressure Utility</th>
<th>Locking Steel Cover</th>
</tr>
</thead>
<tbody>
<tr>
<td>12&quot;</td>
<td>8&quot;</td>
<td>3&quot;</td>
<td>S-sized</td>
<td>712-LA</td>
<td>L W PRODUCTS &quot;HD-2C&quot;</td>
<td></td>
</tr>
<tr>
<td>10&quot;</td>
<td>8&quot;</td>
<td>3&quot;</td>
<td>for</td>
<td>712-LA</td>
<td>L W PRODUCTS &quot;HD-2C&quot;</td>
<td></td>
</tr>
<tr>
<td>8&quot;</td>
<td>6&quot;</td>
<td>2&quot;</td>
<td>each</td>
<td>612-LA</td>
<td>L W PRODUCTS &quot;HD-2C&quot;</td>
<td></td>
</tr>
<tr>
<td>6&quot;</td>
<td>4&quot;</td>
<td>2&quot;</td>
<td>Project</td>
<td>612-LA</td>
<td>L W PRODUCTS &quot;HD-2C&quot;</td>
<td></td>
</tr>
</tbody>
</table>

2. See SHT 3 for additional station information.

3. Coat interior walls, di pipe, fittings and steel fasteners with poly/oric epoxy paint, 2 coats at 5 dry mls each. Colors: off white for walls, light blue for pipe. Pipe shall be empty during coating.


5. Provide vault drainage either by:
   a) 4" SCH 40 PVC drain to daylight or storm system.
   b) GC Systems hydromatic (water-powered) pump model #99633-51-2

6. All ball valves and curb stop shall be full-port.

7. All fasteners shall be stainless steel.

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**Offline PRV Station Configuration**

**A** 2" Brass Ball Valve (Threaded)

**B** 2" Brass 90° Bend (Threaded)

**C** 2" Brass Tee (Threaded) 
\( \frac{3}{4}\)" hose bib

**D** 2" Brass Threaded Compression Adapter

**E** 2" Brass Pipe, LTF

**F** Pressure Reducing Valve (Threaded) equal to Cla-Val, 900-01ABS. Epoxy Lining, Valve Position Indicator, Poly Pilot Lines and Stainless Steel Trim.

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**Gauge & Air Valve**

\( \frac{3}{4}\)" Brass Tee

\( \frac{3}{4}\)" Brass Ball Valve

\( \frac{3}{4}\)" Brass Valve

1" Tap on Tee 
\( \frac{3}{4}\)" Brass Bushing

\( \frac{3}{4}\)" Brass ELL

\( \frac{3}{4}\)" x \( \frac{3}{4}\)" Brass Bushing W/ Ray 0108 Snubber*

\( \frac{3}{4}\)" Air Release Valve, APCO Model 50 or Valmatic

**Gauge**

\( \frac{3}{4}\)" Brass Ball Valve

\( \frac{3}{4}\)" Brass ELL

\( \frac{3}{4}\)" Brass Bushing W/ \( \frac{3}{4}\)" Ray 0108 Snubber*

\( \frac{3}{4}\)" x \( \frac{3}{4}\)" Brass Tee or Cross

1" Tap on Tee 
\( \frac{3}{4}\)" Brass Bushing

**Note:** Brass nipples not called out, provide as necessary.

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City of Bonney Lake

WATER SYSTEM STANDARD DETAIL

Dwg No: W18

Pressure Reducing Station

2 Added Offline PRV Station: 12/25/06

1 Added PRV Piping Note: 7/28/05

Revs: Date

Approved: City Engineer: June 17, 2005

Date:
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.

NOTES

VAULT HATCH

CLEARANCE AS NECESSARY FOR LADDER CONTINUED ON VAULT HATCH, 10" MAX.

4"W x 1/2 FB L-SHAPE, 3" x 3" (TYP OF 4)

12"

4"W x 1/2 FB L-SHAPE, 3" x 3", WITH 1/2" DIA. STAINLESS STEEL ANCHOR BOLTS WITH 3-1/2" MIN. EMBEDMENT (TYP OF 2)

2" x 2" SQUARE TUBING CONTINUOUS STRINGERS (TYP)

8"x3"L x 2"W X 1/2" FB BEND AS SHOWN (TYP OF 2)

1/2" DIA. ANCHOR BOLT, STAINLESS STEEL WITH 3-1/2" MIN. EMBEDMENT (TYP)

CONCRETE FLOOR

ELEVATION

CONTINUE LADDER ON BOTTOM OF VAULT HATCH

4"W x 1/2 FB L-SHAPE, 3" x 3" (TYP OF 4)

18"

VAULT HATCH

6" MIN.

4" x 2" RECTANGULAR TUBING (TYP OF 4)

CONCRETE WALL

6" MIN.

4" x 2" RECTANGULAR TUBING (TYP OF 2)

1" DIA. RUNGS BETWEEN STRINGERS AT LESS THAN OR EQUAL TO 12" O.C., ALL STEPS MUST BE EQUAL HEIGHT, INCLUDING TOP AND BOTTOM STEPS (TYP)

PLAN

W18

PRESSURE REDUCING STATION

SHEET 3 of 3

Approved: June 17, 2005
City Engineer

WATER SYSTEM STANDARD DETAIL