DIVISION 2 – SITEWORK

Section 02620 – Site Potable Water and Reclaimed Water Utilities

Introduction

Piping of site utilities

POTABLE WATER, RECLAIMED WATER

Part 1 - General

• Refer to Section 15050 common piping materials and methods.
• Refer to Section 15980 for meter requirements.

Part 2 - Products

• Pipe Schedule:

<table>
<thead>
<tr>
<th>Service</th>
<th>Size</th>
<th>Pipe</th>
<th>Fittings</th>
<th>Joints</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potable and Reclaimed Water</td>
<td>Up to 3&quot;</td>
<td>PVC-Sch. 40</td>
<td>PVC</td>
<td>Glued</td>
</tr>
<tr>
<td></td>
<td>4&quot; to 12&quot;</td>
<td>PVC- C900 or Ductile iron</td>
<td>PVC Ductile iron</td>
<td>Push-on, mechanical jt</td>
</tr>
<tr>
<td></td>
<td>Over 12&quot;</td>
<td>Ductile iron</td>
<td>Ductile iron</td>
<td>Push-on, mechanical jt</td>
</tr>
</tbody>
</table>

• Pipe

• Ductile iron pipe and fittings to be cement mortor lined (interior) and coated with bituminous material (exterior) per AWWA. Mortor lining for reclaimed systems shall be double thickness.

• PVC pipe, AWWA C900.

• Reclaimed Water- PVC pipe shall be purple (Panatone 522C). Ductile iron pipe shall be encased in purple polyethylene.

• Valves - Buried

• Potable- For pipe over 12" Butterfly valve conforming to AWWA C504.

• Reclaimed Water- For pipe over 12" Butterfly valve conforming to AWWA C504.

• Resilient- Seat gate valves for pipe up to 12".

• Joint Restraint Devices

• Ductile iron mechanical joints –Megalug joint restraint.

• Ductile iron flange connection –Megaflange joint restraint flange adapter.

• Integral ductile iron joint – TR Flex restrained joint.

• PVC pipe – EBBA Iron Sales Series 1700.
• Valve Boxes – cast iron box and cover.

• Air Relief Valve Vaults – cast in place concrete with 30” diameter cover.

• Air Relief Valves – APCO Series 140C, cast iron body, SS float, SS lever, Buna –N seat.

**Part 3 - Execution**

• Potable water
  - Installation shall be per Tucson Water Standards.

• Reclaimed water
  - Installation shall be per Tucson Water Standards.

• Testing- Hydrostatic, no leakage permitted@100 psig for 4 hours, witnessed by UA Inspector before joints are concealed.

**End of Section 02620**