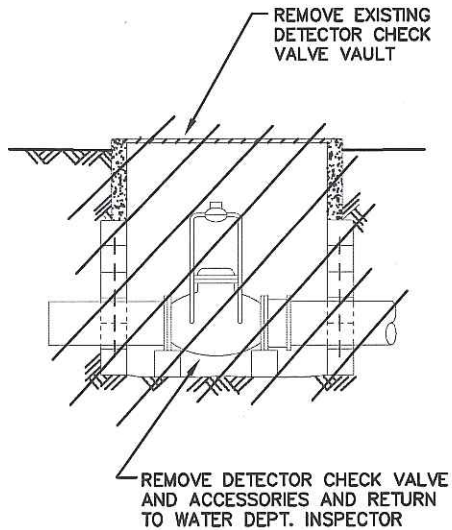
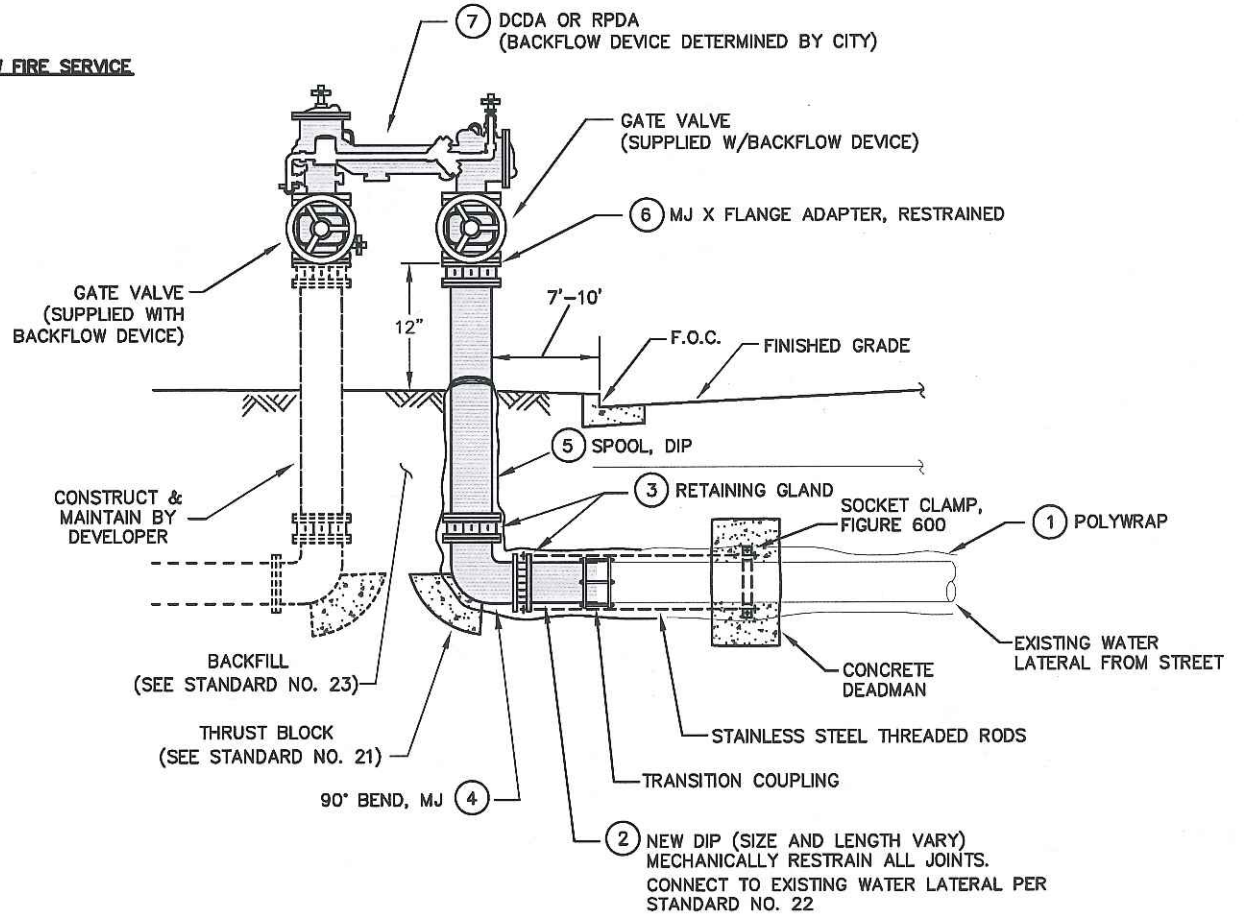


I:\Water\CAD\AutoCad Drawings\Standard Detail\STD-Detail (2011 Rev.)\STD-Detail-2011-CAD\STD-31-2012rev.dwg - STD Detail (2005 Rev).ctb 12/10/2012

EXISTING FIRE SERVICE



NEW FIRE SERVICE



NOTES TO DEVELOPER:

1. ADD DIELECTRIC UNION WHEN TRANSITIONING BETWEEN DISSIMILAR METALS.
2. KEEP METER & BACKFLOW INSTALLATION PLUMB AND LEVEL.
3. NO ADDITIONAL SERVICE CONNECTIONS ALLOWED ON FIRE SERVICE.
4. MECHANICALLY RESTRAIN ALL JOINTS.
5. PROVIDE 3 FOOT CLEARANCE AROUND SERVICE ABOVE-GROUND.
6. BOLLARDS MAY BE REQUIRED AS DETERMINED BY CITY.



Drawn By: D. LUU
 Checked By: L. AU
 Approved By: R. WILSON, T. WILCOX
 Revised Date: DECEMBER 2012

Signature:

Nina Hawk
 Director of
 Water and Sewer Utilities

CITY OF SANTA CLARA
 WATER DEPT. - STANDARD NO. 31

**UPGRADE EXISTING 4" - 10" FIRE SERVICE ASSEMBLY
 (WITH ABOVE-GRADE BACKFLOW DEVICE ASSEMBLY)**

Standard No. 31 – Upgrade Existing 4"-10" Fire Service Assembly with DCDA or RPDA – Material List

Domestic Products Only.

Use 316 stainless steel bolts, flange gasket with EPDM rubber, nuts, and washers for all bolted connections.

Coat above ground water service with Dunn Edwards Paint #10-L, 11-789-04 Santa Clara Mission Sand, Syn Lustrro

Provide 3-foot clearance around service above ground.

| Material | Description | Manufacturer | Model |
|---|---|---------------------------------------|--------------------------------|
| 1. Polywrap | To be used for DIP. Blue. 8 mil low density or 4 mil high density polyethylene film installed per AWWA C105. Tape ends to pipe with 10 mil tape. | | |
| 2. Pipe | Mechanically restrain all joints. -Ductile iron, cement lined Class 50. Protect with polywrap for underground pipe. | US Pipe Pacific States | |
| 3. Retaining Gland | Joint restraint for use with mechanical joint fittings. Size as specified. | US Pipe (not allowed above ground) | MJ Field Lok |
| | | EBAA | Megalug Series 1100 |
| | | Uniflange | Series 1400 (DIP) |
| 4. 90 Degree Bend with mechanical joint | AWWA C-153 ductile iron with mechanical joint, cement lined with stainless steel bolts and gaskets | US Pipe Tyler Union | |
| 5. Spool | Ductile iron, class 50 minimum. | | |
| 6. MJ x Flange Adapter | AWWA C-153 ductile iron. | Tyler Union | #5-158 |
| | | Trinity / USP | With megalug restraining gland |
| 7. Double Check Detector Assembly | Includes gate valves and bypass (leak detection) Badger meter. Provide Elster transmitter compatible encoded register with Nicor connector. All registers to be facing inlet and provide cubic feet reading. | Wilkins | 450DA |
| | | Febco | 876VST |
| Reduced Pressure Detector Assembly | Includes gate valves and bypass (leak detection) Badger meter with Elster transmitter compatible encoded register with Nicor connector. Meter register to be facing inlet and provide cubic feet reading. Each RP to have separate serial number. | Watts | 909 RPDA with Rising Stems |
| | | Wilkins | 475DA, 375ADA |
| *(Unit to be determined by City) | | | |