



NOTES TO DEVELOPER:

1. METER SHALL BE TAGGED AND LABELED TO INDICATE RECYCLED WATER, PAINT PURPLE (PANTONE 512).
2. ADD DIELECTRIC UNION WHEN TRANSITIONING BETWEEN DISSIMILAR METALS.
3. KEEP METER & BACKFLOW INSTALLATION PLUMB AND LEVEL.
4. MECHANICALLY RESTRAIN ALL JOINTS.
5. DO NOT INSTALL DISMANTLING JOINT COMPRESSED.
6. DISMANTLING JOINT LENGTH SHALL BE 3 TIMES THE DIAMETER OF THE PIPE LEADING INTO THE METER.
7. ABOVE GROUND BACKFLOW SHALL BE PAINTED PURPLE COLOR (PANTONE 512).

Updated Date: 05/17/2018

Drawn By: **DUC L.**
 Checked By: **TANISHA W. / JOHN S.**
 Approved By: **SHILPA M. / TERRY W.**
 Revised Date: **NOVEMBER 2017**

Signature: 
 Director of
 Water and Sewer Utilities

CITY OF SANTA CLARA
 WATER AND SEWER UTILITIES - STANDARD NO. 13A
**4", 6" AND 8" RECYCLED WATER SERVICE
 (ABOVE GROUND)**



Standard No. 13A – 4”, 6” and 8” Recycled Water Service (Above Ground) – Material List

Domestic Products Only. Use 316 stainless steel bolts, flange gasket with EPDM rubber, nuts, and washers for all bolted connections. Use no lead products for domestic water services.

Coat above ground water service paint with purple (Pantone 512)

Provide 5-foot clearance around service above ground.

Material	Description	Manufacturer	Model
1. Tapping Saddle	Mechanical joint with all accessories. -Ductile iron, cast iron, or PVC -AC pipe	Mueller H-615 Clow F-5205 Mueller H-619 Clow F-5207	
2. Pipe Marking Tape	Purple. 3” wide, 4 mil, non-detectable.		
3. Tracer Wire	RHW#12 AWG Solid. Tape to the top of the water main with 12” minimum slack inside all valve boxes		
4. Thrust Block	See City Standard No. 21		
5. Tee	Mechanical joint with flanged branch. AWWA C-153 compact ductile iron with mechanical joint, cement lined with stainless steel bolts and gaskets	US Pipe Tyler Union	
6. Gate Valve	MJ x Flanged. AWWA C-509 resilient seat, epoxy coat inside and out to meet AWWA C-550. Open left with 2” square operating nut. All rubber components shall be EPDM.	M&H Mueller Clow	Style 4067 A-2361
7. Polywrap	Purple. 8 mil low density or 4 mil high density polyethylene film installed per AWWA C105. Tape end to pipe with 10 mil tape.		
8. Pipe mechanically restrain all joints	Size and type as specified. -Ductile iron, cement lined Class 50. Protect with polywrap for underground pipe.	US Pipe Pacific States	
9. Retaining Gland	Joint restraint for use with mechanical joint fittings. Size as specified.	US Pipe (not allowed above ground) EBAA Uniflange	MJ Field Lok, High Max, Romac Megalug Series 1100 Series 1400 (DIP)
10. 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	
11. Spool	Ductile iron, cement lined Class 50		
12. Traffic Valve Box & Extension (see Standard Detail Nos. 19 & 20)	Valve Box with purple painted lid mared "RECYCLED" or "RECYCLED WATER" Extension - 8” PVC SDR 35, single piece cut to proper length.	Tyler Union	G5 with lid marked "RECYCLED" or "RECYCLED WATER"
13. MJ x Flange Adapter	AWWA C-153 ductile iron.	Tyler Union Trinity / USP	#5-158 With megalug restraining gland
14. 90 Degree Bend	Flanged. Size as specified. AWWA C-110 ductile iron, cement-lined.	US Pipe Tyler Union	
15. Gate Valve	See 6. above		
16. Dismantling Joint	Dismantling Joint. Length = 3x diameter.	Romac KRAUSZ	DJ400 or DJ405
17. Strainer (for use with 6" & 8" Badger meters)	Provide separate strainer for 6" & 8" Badger meters	Badger	
18. Water Meter & Register (manufacturer's test results are to be submitted with all meters).	With strainer and test plug. Purple recycled water encoded register that is Elster transmitter compatible with Nicor connector. All registers to be facing inlet and provide cubic feet reading.	Badger Sensus	Turbo Series 450 RECLAIMED/ test plug Omni T2 (industrial - more constant flow)
19. Test Assembly	Consisting of a brass nipple, ball valve and brass plug. See meter manufacturer's specifications for size.	Ball valve - Ford	B11-NL
20. Check Valve	Brass, flanged	Mueller	A-2600-06