



NOTES TO DEVELOPER:

1. ADD DIELECTRIC UNION WHEN TRANSITIONING BETWEEN DISSIMILAR METALS.
2. KEEP METER & BACKFLOW INSTALLATION PLUMB AND LEVEL.
3. MECHANICALLY RESTRAIN ALL JOINTS.



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Signature:

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Director of
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CITY OF SANTA CLARA
WATER DEPT. - STANDARD NO. 8

3" WATER SERVICE W / RP

Standard No. 8 – 3” Water Service with RP – 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 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. Tapping Saddle	Mechanical joint with all accessories. -Ductile iron, cast iron, or PVC	Mueller H-615 Clow F-5205	
	-AC pipe	Mueller H-619 Clow F-5207	
2. Pipe Marking Tape	Blue. 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 coated inside and out to meet AWWA C-550. Open left with 2” square operating nut. All rubber components shall be EPDM.	M&H	Style 4067
		Mueller	A-2361
		Clow	F-6106
7. Polywrap	To be used for DIP. Blue. 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.	US Pipe Pacific States	
	-Ductile iron, cement lined Class 50. Protect with polywrap for underground pipe.		
9. 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)
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. 4" x 3" Reducer	Ductile iron, cement lined Class 50		
12. Spool	Ductile iron, cement lined Class 50		
13. Traffic Valve Box & Extension (see Standard Detail Nos. 19 & 20)	Valve Box	Christy	G5 with lid marked “Water”
	Extension - 8” PVC single piece cut to proper length. PIP Size SDR 51		
14. MJ x Flange Adapter	AWWA C-153 ductile iron.	Tyler	#5-158
		Trinity / USP	With megalug restraining gland
15. 90 Degree Bend	Flanged. Size as specified. AWWA C-110 ductile iron, cement-lined.	US Pipe	
		Tyler Union	
16. Gate Valve	See 6. above		
17. Pipe mechanically restrain all joints	Ductile iron, cement lined Class 50	US Pipe Pacific States	
18. Water Meter & Register (manufacturer’s test results are to be submitted with all meters).	Turbine meter with strainer and test plug. Provide Elster transmitter compatible encoded register with Nicor connector. All registers to be facing inlet and provide cubic feet reading.	Sensus	Omni T2 (industrial - more constant flow)
		Sensus	Omni C2 (varying 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. Reduced Pressure Backflow Prevention Device	Reduced pressure zone assembly, cast iron. Provide clamshell locks for valves, Pipeline Product GVL-200.	Watts Wilkins	909 375XL