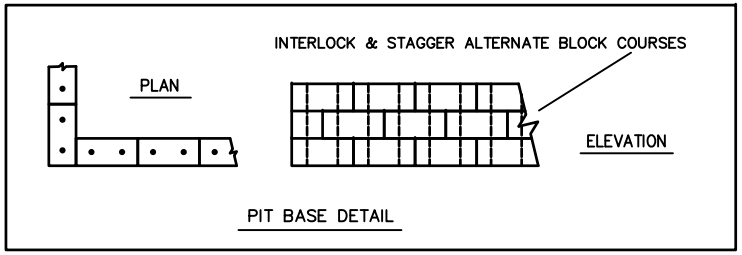
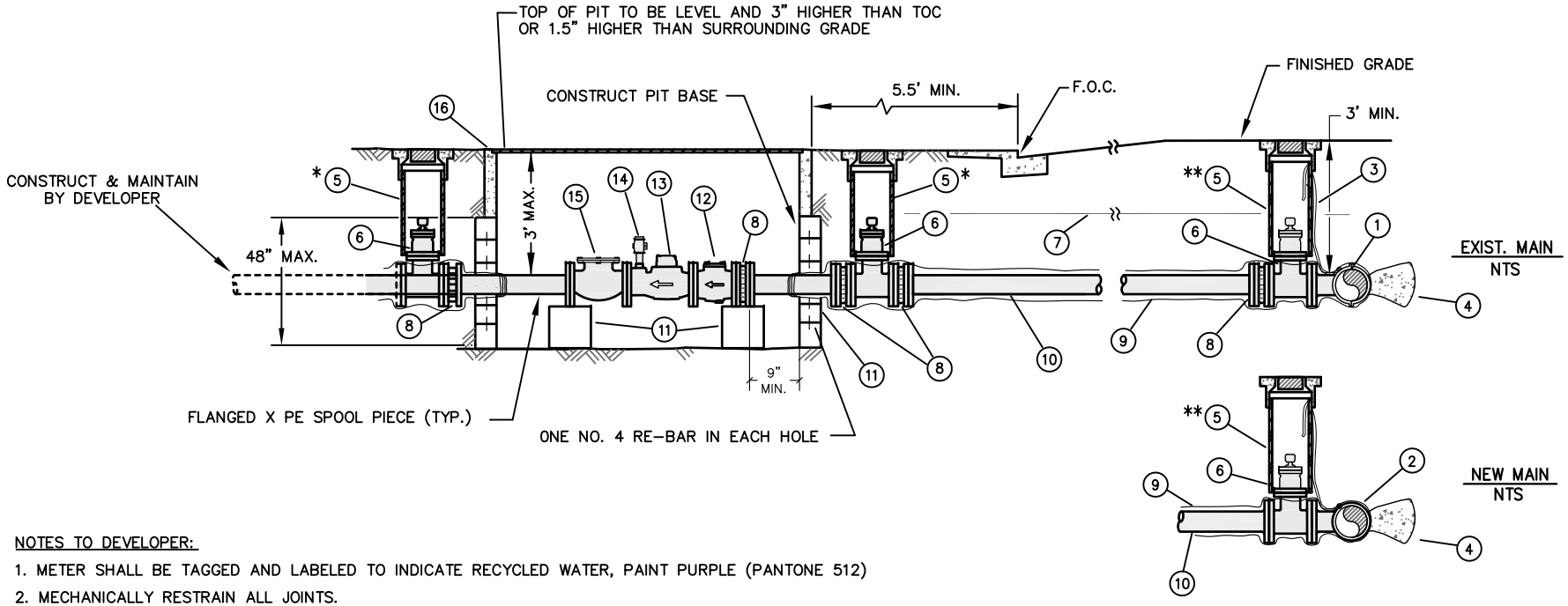
1. TAPPING SLEEVE
2. TEE MJ WITH FLANGED BRANCH
3. TRACER WIRE
4. THRUST BLOCK (SEE STANDARD NO. 21)
5. STD. TRAFFIC VALVE BOX & EXTENSION
   * (SEE STANDARD NO. 19)
   ** (SEE STANDARD NO. 19 & 20)
6. GATE VALVE, MJ X FLANGED
7. PIPE MARKING TAPE
8. RETAINING GLAND, TYP.
9. POLYWRAP (TAPE THE END TO MAIN), TYP.
10. DUCTILE IRON PIPE
11. 8" X 8" X 16" STD. CONC. BUILD. BLOCK
12. STRAINER, FLANGED (FOR USE WITH 6" & 8" BADGER METERS)
13. TURBINE METER
14. TEST ASSEMBLY
15. CHECK VALVE, FLANGED
16. CHRISTY R-33 PIT WITH LID (4' X 5') FOR 4" & 6" SERVICE
    CHRISTY R-37 PIT WITH LID (4' X 7') FOR 8" SERVICE





NOTES TO DEVELOPER:

1. METER SHALL BE TAGGED AND LABELED TO INDICATE RECYCLED WATER, PAINT PURPLE (PANTONE 512)
2. MECHANICALLY RESTRAIN ALL JOINTS.

Drawn By: D. LUU	Signature:	CITY OF SANTA CLARA WATER DEPT. - STANDARD NO. 13
Checked By: L. AU	Director of Water and Sewer Utilities	
Approved By: R. WILSON, R. ENOS		4", 6" & 8" RECYCLED WATER SERVICE
Revised Date: MAY 2014		

City of Santa Clara – Water & Sewer Utilities Department Revised Date: May/2014

Standard No. 13 – 4", 6", & 8" Recycled Water Service – Material List

Domestic Products Only. Use 316 stainless steel bolts, nuts, and washers for all bolted connections.

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. 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	
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. 18		
5. Traffic Valve Box & Extension (see Standard Detail Nos. 19 & 20)	Valve Box with purple painted lid Extension - 8" PVC SDR 35, single piece cut to proper length.	Christy	G5 with lid marked "CSC-RW"
6. Gate Valve	4". 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. Pipe Marking Tape	Purple. 3" wide, 4 mil, non-detectable.		
8. 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)
9. Polywrap	To be used for DIP. Purple. 8 mil low density or 4 mil high density polyethylene film installed per AWWA C105. Tape end to pipe with 10 mil tape.		
10. 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	
11. Building Block	Concrete. Standard 8" x 8" x 16".		
12. Strainer (for use with 6" & 8" Badger meters)	Provide separate strainer for 6" & 8" Badger meters	Badger	
13 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	Turbo Series 450 RECLAIMED/ test plug
		Sensus	Omni T2 (industrial - more constant flow)
14. Test Assembly	Consisting of a brass nipple, ball valve and brass plug. See meter manufacturer's specifications for size.	Ball valve - Ford	B11-NL
15. Check Valve	Brass, flanged	Mueller	A-2600-06
16. Pit	Include steel parkway, checker plate lid marked "RECYCLED WATER".		
	For 4" & 6" Service	Christy	R-33 (4' x 5')
	For 8" Service	Christy	R-37 (4' x 7')