

GENERAL PROVISIONS
OF THE
SPECIFICATIONS

MATERIAL SPECIFICATIONS LIST

ITEM

- 1a. PIPE DICL TYTON: U.S. Pipe, Pacific States, or American with Tyton Gaskets in accordance with AWWA C151. Use Class 50, 51 or 52 unless otherwise specified or shown on drawings.
- | | |
|------------------------|-----------------|
| 4" | Class 52 |
| 6", 8" and 10" | Class 50 |
| 12" and Greater | Class 51 |
- 1b. BOLTLESS RESTRAINED DICL PIPE:
12" – 24" Pacific States Thrust Lock™ Or U. S. Pipe TR-Flex®
> 24" Pacific States Super Lock® Or U. S. Pipe TR-Flex®
2. POLYENCASEMENT: 10 mils (unless otherwise specified).
3. GASKET FIELD LOK: U. S. Pipe
4. MARKER TAPE "RESTRAINED PIPE": 3" width blue tape with black lettering.
5. VALVE GATE: Resilient Wedge Type. Valve gates are FLG, MJ, or FLG x MJ. Mueller, Clow, or American Flow Control in accordance with AWWA C515. Use EPDM for o-rings and wedge coating.
6. BUTTERFLY VALVE: Mueller/Pratt or Clow/M & H. For valves 12" or greater unless otherwise specified on SJWC drawings.
7. BOX VALVE & LID: G5 by Christy.
8. PIPE CASING VALVE BOX: Use SDR 35 plastic pipe.
9. TEE's: FLG or MJ fittings by Tyler, Union or U.S. Pipe in accordance with AWWA C-153.
10. KIT INSULATING: Calpico. Enddw - Standard Flange. 150 lb full face gasket.
11. SADDLE TAP FAB: Use SJWC Standard Drawing D-2-325. Fabricated by local metal shop.
12. SLEEVE TAP MJ ACR: Mueller or Smith Blair up to 16". Smith Blair for sizes 16" and larger. For CI or DI pipe use Mueller.
13. SLV TAP O-RING: Smith Blair or Ford. Epoxy coated with stainless steel nuts and bolts.
14. SPACER DICL FLG x PE: Tyler/Union, or U.S. Pipe.
15. ADAPTER COUPLING w/o STUDS: Smith Blair (912 or 913) or Ford equivalent.
16. ADAPTER MJ x FLG: Tyler/Union or U.S. Pipe.

- 17. MEGALUG: EBAA Iron or UNI Flange by Ford.
(MJ Restraint Follower)
- 18. DETECTOR CHECK (DC): Hersey Model EDC3. Use SJWC Standard Drawings FS & FS-DC
(Fire Services) unless otherwise shown on drawings.
- 19.* BY-PASS METER FOR DC: Use SJWC Standard Drawing FS-DC.
- 20.* 3" SERVICE: Use SJWC Standard Drawing SER-3c.
- 21. COPPER SERVICE: Use Type K soft (for 1" split services & services greater than 1"). Refer
to SJWC Standard Drawings SER-1c, SER-2c or larger.
- 22.** FIRE HYDRANT: Clow, Medallion, 5-1/4" B-84-B fire hydrant in accordance with AWWA C502. Use
SJWC Standard Drawing MAIN-HYD unless otherwise shown on drawings. Use EPDM for o-rings and
seats (rubbers).

All fire hydrants installed within the City of San Jose shall be provided by the City at the expense of the developer. All other fire hydrants shall be dry barrel hydrants and shall conform to AWWA Specification C-502, Fire Hydrants for Ordinary Water Works Service, unless otherwise approved in writing by the Engineer. The fire hydrants shall have a 4 1/4" valve opening. The inlet or connection to the main shall be a 6" mechanical joint. Each hydrant shall be fitted with two 2 1/2" national standard thread outlets and one 4" California thread steamer connection. The valve shall be operated by a 1 1/8" pentagon nut, and shall turn counterclockwise to open. The valve shall be removable, and shall close automatically if the hydrant is broken. The operating stem and the operating nut shall be of non-corrosive material. An "O" ring stem seal shall be furnished. The gland shall be of solid bronze or cast iron with bronze bushings. The seal ring shall be bronze. All bronze shall meet ASTM B-62 Specification, and all cast iron shall meet ASTM Specification A-126. The hydrant shall be furnished with a brake ring feature and the sidewalk flange. The drain valve shall be plugged. Gaskets shall be furnished in all outlet caps. Hydrants shall be of the dry barrel construction, and the barrel length shall be as required to accommodate the depth of the main.

- 23. BOLTED COUPLING: Ford, Smith Blair, or ROMAC. Epoxy coat with stainless steel bolts. Use couplings with the following sleeve lengths:

<u>Pipe Size</u>	<u>Sleeve Length</u>
4" – 10"	7"
12"–16"	10"
> 16"	To be specified by Engineer

- 24. PLASTIC SERVICE: AWWA C901, PE 3408 CTS, 200 psi, SDR9, ASTM D2737 pipe. Use (3/4" or 1" single) Mueller "Insta-Tite" fittings for all services utilizing plastic piping. See SJWC Standard Drawing SER-1p.
- 25. CASING SEALS & SKIDS: Calpico.
- 26. SERVICE CHECK VALVES: United, 3/4" – 2" 99S (Swing type resilient seat).
- 27. STEEL PIPE type DCCL: Dipped coated cement lined (DCCL) welded steel pipe (0.375-inch wall thickness). ASTM A53 grade B steel (minimum), U.S. Steel or Pacific Pipe. The coating shall be factory primed with a 3-mil organic zinc rich coating (Carboline 893 primer or approved equal) and the finish coat shall be factory applied Flexxide Acrylic Elastomer or approved equal. Above grade steel pipe color shall be Carboline number CWS D395 "Grouse Tan".
- 28. PIPE CASING: Bare steel, ASTMA53 grade B steel (minimum), SCH 40 (0.375" wall, (minimum).

Note: (*) Products indicated here are by Ford, Mueller and Jones (J372, J372F Wheel Valves 1 ½ - 2" valves) are acceptable equivalents. Full Circles by Ford, Mueller and Smith Blair.

(**) Fire hydrants within City of San Jose are to be obtained from the Pubic Works Stores Department. The hydrant receipt and hydrant letter will be included in your release package.

END OF SECTION