

GREAT OAKS WATER COMPANY

MATERIALS SPECIFICATION LIST

General Note: All material that comes in contact with potable water shall be “lead free” to the extent defined in California Assembly Bill 1953 Chapter 853 and NSF 61 approved. All products shall be produced, manufactured and assembled domestically using manufacturer’s facilities in the United States unless otherwise approved.

1. DUCTILE PIPE: U.S. Pipe, McWane, American or Electrosteel with Tyton or NXT Gaskets in accordance with AWWA C151. Use pressure class indicated below unless otherwise specified or shown on drawings

Pipe Size	AWWA Pressure Class
4”-12”	CLASS 350
14”-20”	CLASS 250

2. PVC PIPE: JM Eagle, Diamond Plastics with Tyton joints in accordance with AWWA C900 and C111

3. PIPE RESTRAINT FITTINGS:

Gasket System:	4”-24”	Ductile Iron - U.S. Pipe Field Lok, McWane Sure-Stop 350, American Pipe Fast-Grip
	4”-24”	PVC C900 - Eagle Loc 900, Diamond Plastics Lok 21, Bulldog
Joint System:	12”-24”	McWane Thrust Lock, U.S. Pipe TR-Flex or NXT-R

4. FLANGE GASKETS: 4”-24” EPDM (1/8” Cloth Insert SBR for recycled water), U.S. Pipe Full Face Flange-Tyte Gasket or Garlicky Multi-Swell Style 3760U.
5. POLYENCASEMENT FOR DUCTILE IRON PIPE: 8 mils unless otherwise specified, purple for recycled water or V-Bio (white) for potable water.
6. MARKER TAPE “RESTRAINED PIPE”: 3” width – blue tape with black lettering for potable and purple tape for recycled water.
7. TRACER WIRE: Agave Wire 10 AWG HMW PE 45 Direct Burial Tracer Wire 600 Volts
8. GATE VALVE: Resilient Wedge Type. Gate valve are FLG, MJ or FLG x MJ. Mueller, Clow, M & H or American Flow Control in accordance with AWWA C515 or AWWA C509 (ductile iron only).

Use EPDM (SBR for recycled water) for o-rings and wedge coating. Minimum 200 psi pressure rating unless otherwise specified. Epoxy coated.

9. BUTTERFLY VALVE: Mueller/Pratt or DeZurik in accordance with AWWA C504. Use "Seat-in-Body" design, EPDM (SBR for recycled water) for o-rings and seat coating. Class 150 unless other specified. Epoxy coated.
10. AIR VALVE: APCO or Crispin. APCO 50 for below grade installation per standard drawing.
11. VALVE BOX & LID: Christy G5
12. PIPE CASING VALVE RISER BOX: SDR 35 PVC plastic pipe.
13. TEES, REDUCERS, ELBOWS, CROSSES, SOLID SLEEVES, FLG and MJ fittings: Tyler/Union, U.S. Pipe or ROMAC in accordance with AWWA C-153. Epoxy coated.
14. INSULATING KIT: Calpico 150lb. full faced gaskets with Red Devil #940 gasket material and double washers (ERDW).
15. SADDLE TAP FAB: Fabricated by local metal shop.
16. SLEEVE TAP MJ: AC Pipe: Mueller, Smith-Blair or ROMAC up to 16". Smith-Blair for sizes 16" and larger. CI or DI Pipe: Mueller or ROMAC.
17. SLEEVE TAP O-RING: Smith-Blair, Ford or ROMAC. Epoxy coated with stainless steel nuts and bolts.
18. SPACER DI CL FLG x PE: Tyler/Union, U.S. Pipe or ROMAC.
19. ADAPTER COUPLING w/o STUDS: Smith-Blair, Ford or ROMAC.
20. ADAPTER MJ x FLG: Tyler/Union, U.S. Pipe or ROMAC.
21. FIRE HYDRANT: Clow Medallion or Mueller Centurion dry barrel fire hydrant in accordance with AWWA C502. Use EPDM for o-rings and seats.
22. BOLTED COUPLING: Ford, Smith-Blair or ROMAC. Epoxy coat with stainless steel bolts. Use couplings with the following sleeve lengths:

Pipe Size	Sleeve Length
4"-10"	7" min.
12"-16"	10" min.
>16"	14" min.

23. CASING SEALS & SKIDS: With stainless steel bands. Calpico or approved equal.
24. PIPE CASING: Bare steel, ASTM A53 grade B steel (min.), SCH 40, 0.375" wall (min.).
25. COPPER SERVICE: Use Mueller Blue Plastic Streamline Plumbshield Type K soft copper tube (25 Mil LDPE) per general plans.
26. PLASTIC SERVICE: AWWA C901, PE 4710 CTS, 250 psi, SDR9, ASTM D2737.