

APPROVED MATERIALS LIST
SERVICE MATERIALS

July, 2011

SIZE	DESCRIPTION	MANUFACTURER & MODEL NUMBER	NOTES
CORPORATION STOPS			
1"	MIP x CTS Comp ball corp stop	Jones: J-1935 SG Ford: FB 1100-4Q McDonald: 74704-BQ	Low lead
2"	MIP x CTS comp ball corp stop	Jones: J-1935 SG Ford: FB 1100-7Q McDonald: 74704-BQ	Low lead
1"	MIP x FIP ball corp stop *	Jones: J-1931 Ford: FB 1700-4 McDonald: 73149-B	Low lead
2"	MIP x FIP ball corp stop *	Jones: J 1931 Ford: FB 1700-7 McDonald: 73149-B	Low lead
* High pressure assembly only, above 150 psi			
ANGLE METER STOPS			
1"x 3/4"	CTS ball angle meter stop	Jones: J-1963WSG Ford: BA43-342WQ McDonald: 74602-B	Low lead
1"	CTS ball angle meter stop	Jones: J-1963WSG Ford: BA43-444WQ McDonald: 74602-BQ	Low lead
2"	CTS ball angle meter stop	Jones: J-1975WSG Ford: BFA43-777WQ McDonald: 74602-BQ	With elongated holes Low lead
1"	FIP ball angle meter stop*	Jones: J-1966W Ford: BA13-444W McDonald: 74604-B	Low lead
2"	FIP x flg. ball angle meter stop*	Jones: J-1974W Ford: BFA13-777W McDonald: 76101-MW	With elongated holes Low lead
* High pressure assembly only, above 150 psi			

ADAPTERS			
1"	MIP x CTS comp adapter	Jones: J-2605 SG Ford: C84-44Q McDonald: 74753-Q	Low lead
2"	MIP x CTS comp adapter	Jones: J2605 SG Ford: C84-77Q McDonald: 74753-Q	Low lead

BALL VALVES			
1"	FIP ball valve	Jones: J-1900 Ford: B11-444 McDonald: 76101W	Low lead
2"	FIP ball valve	Jones: J-1900 Ford: B11-777 McDonald: 76101W-SHDLB	Low lead
1"	FIP ball valve with handle	Jones: J-1905 Ford: B11-444W with HB34S McDonald: 76101W - SHDLB	Low lead
2"	FIP ball valve with handle	Jones: J-1905 Ford: B11-777W with HB67S McDonald: 76101W- SHDLB	Low lead
¾"	FIP x meter nut ball valve with handle	Jones: J-1908 Ford: B13-332W with HB34S McDonald: 76101 MW-HDLB	Low lead
1"	FIP x meter nut ball valve with handle	Jones: J-1908 Ford: B13-444W with HB34S McDonald: 76101 MW- HDLB	Low lead
1½" - 2"	FIP x flg ball valve with handle	Jones: J-1913 Ford: BF13-777W with HB67S McDonald: 76101 MW-SHDLB	Low lead

SADDLES			
1" & 2" IPT outlet	ACP, DIP	Jones: J-979 McDonald: 3826	Brass body w/ brass double straps
1" & 2" IPT outlet	PVC (C-900)	Jones: J-969 McDonald: 3856	Brass body w/ s.s. double straps

PRESSURE REGULATING VALVES			
¾", 1" & 2"		Wilkins: #600HR*	Low lead

* All bronze body and bell housing and S.S. replaceable seat

COPPER TUBING			
1" & 2"	Type "K" soft		

WATER METERS			
5/8" x 3/4"	Box/vault sets shall have TR/PL registers, cu.ft. x 100	Invensys SR II	Bronze top and bottom
1"	Box/vault sets shall have TR/PL registers, cu.ft. x 100	Invensys SR II	Bronze top and bottom
1 1/2"	Box/vault sets shall have TR/PL registers, cu.ft. x 100	Invensys Omni T ²	Flanged ends, s.s. bolts
2"	Box/vault sets shall have TR/PL registers, cu.ft. x 100	Invensys Omni T ²	Flanged ends, s.s. bolts
3" – 6" meters shall be Invensys Omni T ² . Larger meters as approved by VWD			
GATE VALVES			
3" - 24"	All ductile iron body and bonnet, resilient wedge with factory epoxy with low zinc stem	Clow, Mueller, and AFC 2500	* AWWA C-515 * Mfr date within one year of installation
BUTTERFLY VALVES			
	CL150 & 250: All flanged, ductile iron body, rubber in the body, with factory epoxy inside	Pratt	* AWWA C-504 * Mfr date within one year of installation
COMBINATION AIR AND VACUUM VALVES			
1"	**	APCO: 143-C A.R.I.: D-040	
2"	**	APCO: 145-C A.R.I.: D-040	
3"	**	APCO: 147-C	
4"	**	APCO: 149-C	
6"	**	APCO: 150-C	
** All internal parts shall be stainless steel			
AUTOMATIC CONTROL VALVES			
		Cla-Val	

DETECTOR CHECK VALVES			
2" - 10"		Cla-Val, Febco, Wilkins, Watts, Ames, Conbraco (all with Sensus bypass meter)	Double check detector or reduced pressure detector, depending on degree of hazard
VAULT LIDS			
	Type "J" or "JD"	Bilco, Syracuse	With all S-S hardware, torsion bars, recessed locking hasp, hinged reading lid
FIRE HYDRANTS			
Residential	One 4" & one 2 ½" outlets	Jones: J-3700 or J-4040C Clow: 2050 or 850	Bronze or Iron, 6 hole, 7/8" drilling, plastic caps
Multi-Res, Commercial & Industrial	Two 4" & one 2 ½" outlets	Jones: J-3775 or J-4065C Clow: 2065 or 865	Bronze or Iron, 6 hole, 7/8" drilling, plastic caps
METER BOXES			
5/8" - 3/4" Meter		Concrete: J&R #4 ½	Install ½" pvc btwn. boxes < 5' apart
1"-2" Meter		Concrete: J&R #6B	Install ½" pvc btwn. boxes < 5' apart
Concrete meter boxes shall have one-piece Armorcast® polymer lids, 20K max. load.			
TAPPING SLEEVES			
Size on Size	Cut-in flanged tee with valves and flex couplings		Fire and hydrant services only
Reducing	Fabricated steel with fusion epoxy and S.S. nuts and bolts	Romac: FTS420 - DIP Smith-Blair: #622 - DIP Mueller MJ: H-615 - DIP Mueller MJ: H-619 - ACP	
Reducing	Fabricated all stainless steel with drop in bolts	Romas: SST – DIP Smith-Blair: #665 – DIP Powerseal: #3490AS – all pipe	

FLANGED COUPLING ADAPTER			
	Epoxy	Romac: FCA 501 Smith-Blair: 912 (new style)	
FLEX COUPLINGS / TRANSITIONS			
	AC, DIP, CML&C, PVC	Romac: Smith Blair: 441 PowerSeal: 3506	MegaLug, Uni-Flange or TUF Grip on DIP transition, as approved
WATER DISTRIBUTION PIPE			
	Ductile Iron Pipe (DIP)* Class: x pressure	TJ, MJ	per approved plans
	Cement Mortar Lined and Coated 10 gauge steel pipe		per approved plans
	Polyvinyl Chloride (PVC) C900, DR14		Per approved plans 6" – 12' dia.
* 8 mil clear polyethylene pipe sleeve on outside			
SEWER PIPE			
	Vitrified Clay Pipe (VCP)	Speed Seal Bell and Spigot	Extra-strength pipe and fittings
	Ductile Iron Pipe (DIP), Class ___ x depth/loading*		per approved plans
	PVC Pipe (12" and smaller)	SDR 35, Green	class per depth
* 8 mil clear polyethylene pipe sleeve on outside			
SEWER LATERALS			
	Vitrified Clay Pipe (VCP)	Speed Seal Bell and Spigot	
	Ductile Iron Pipe (DIP) Class ___ x depth/loading*		Lining per approved plans. I.D. same as main.
	PVC Pipe	D-3034 SDR 35	
* 8 mil clear polyethylene pipe sleeve on outside			

MISCELLANEOUS			
	Ductile Iron Pipe (DIP)		6" non-det tape
	CML&C Steel Pipe		6" non-det tape
	PVC Water		6" non-det tape Tracer wire
	PVC Sewer		6" det tape
	VCP		6" det tape
	Ductile Iron Fittings, cement lined, C110 or C153	Star / Union Foundry Sigma - water only	Lining per approved plans. I.D. same as main (sewer).
	Paint	blue: FSC Coatings "Nat'l Blue" - Silicone PolyPlus yellow: FSC Coatings "Safety Yellow" - Silicone PolyPlus	FSC phone: (800) 579-8459

NOTES:

1. All materials listed shall be installed in accordance with the most recent edition of the "Standard Specifications for Construction of Water and Sewer Facilities" of the Vallecitos Water District.
2. All materials shall be utilized only within the pressure rating of the device.
3. All valves shall have factory applied fusion bonded epoxy as follows: gate valves, inside and out; BFV, inside; plug valves, inside.
4. 1" shall be the minimum size water service installed.
5. All installations with greater than 150 psi shall utilize 15% silver solder joints only. Compression and flare fittings will not be allowed.
6. All nuts and bolts for service saddles shall be brass.
7. All corporation stops and angle meter stops shall be ball type, regardless of pressure class.
8. For all 5/8" through 1" water meter installations with pressures greater than 150 psi, a pressure regulating valve shall be installed before the meter. 1" high pressure water services will require a #6B meter box. For 1 1/2" and larger water meter installations with pressures less than 200 psi, use Invensys Omni T² meters. For 1 1/2" and larger water meter installations with pressures greater than 200 psi, a pressure regulating valve shall be installed before the meter. Meter enclosure as approved by VWD.
9. As of January 1, 2010, per AB 1953, brass service products shall be low lead. Exemptions are service saddles, backflow preventers for non-potable services, and water main gate valves larger than 2".