

APPENDIX J
APPROVED MATERIALS LIST

Item	Service	Size	Rating & Description	Manufacturer & Model No.
Resilient Wedge Gate Valve	Water	2"-12"	Ductile Iron Body, FLG x FLG, 2" Square operating nut, Two Anti Friction Washers, Triple O-Ring Seals, Wedge-Fully Encapsulated In Molded Rubber Complying With ASTM D2000, 10 mil Fusion Epoxy coating (Interior and Exterior) 250 psig rated working pressure. Rubber Coated Wedge. Bronze Stem. AWWA C550, ANSI/AWWA C509, Certified NSF 61; 316SS Hardware.	Mueller - A-2361 Clow - Model 2638 American Flow Control - Series 2500-1
Butterfly Valve	Water	14"-48"	Cast Iron/Ductile Iron Body, 316 SS disc edge, Flanged and mechanical joint ends. 250 psig maximum working pressure. AWWA Class: 25A, 75B, 150B, 250B, Epoxy coated interior and exterior. Rubber seat on body; 316SS Hardware.	Mueller - CL 250 - #B – 5227 DeZurik - BAW 250B (Ductile Iron) Pratt Valves - CL250 - Triton HP - 250
Plug Valve	Water, Sewer	8"-24"	Ductile iron, Steel or Iron Body. SST Bearings. Flanged end connections. 275 psi maximum working pressure. 300 Deg. F Working Temp.	DeZurik - PEC (Ductile Iron) Nordstrom: 4"-12" Bolted Gland Iron Plug
Ball Valves	Water	1/2" - 4"	Two Piece Ball Valve. Full or Standard Port Threaded Brass or Bronze Body. Brass Ball, Latch Lock Handle. Blowout-Proof Stem. Up to 600 PSI.	Milwaukee - 20BSOR Apollo - 70-100 NIBCO - T-FP-600
Gate Valves	Water	¾"-3"	Two Piece Gate Valve. Full or Standard Port Threaded Brass or Bronze Body with brass gate.	NIBCO T113
Air Vac/ Air Release Valves	Water	1" and 2"	Cast Iron Body & Cover, SS Float, Brass Plug, Primered Exterior, Buna-N Needle & Seat, 1000 minimum psi(static) rating	Apco: 1" - 143C, 2" - 145C Crispin ValMatic
Air Release Valves	Water	1"-2"	Cast Iron Body & Cover, SS Internal Linkage & Float, Brass Seat, Primered Exterior, 500 maximum psi rating, 3/16" orifice for operating pressure up to 150 psi	Apco: 1" - 200A, 2" – 200 Crispin ValMatic
Pressure Relief Valve	Water		Ductile Iron Body & Cover, Fusion Bonded Epoxy Coating, main valve shall be a hydraulically operated, single diaphragm actuated, globe or angle pattern valve, Buna-N Diaphragm, The adjustment range of the pressure relief / sustaining pilot shall be 20-200 psi.	Ames - 920, 920 G (globe style), 920 A (angle style) Cla-Val

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Meter	Water	¾" short	Bronze case of 81% copper. Direct magnetic drive. 360 degree polymer basket strainer. 150 psi maximum working pressure. Maximum working temperature 120 deg. F.	Master Meter DIALOG 3G-DS
Reduce Pressure Zone Assembly	Water	1/2"-10"	Bronze or Cast-Iron Body & Cover With Interior & Exterior Epoxy coating, Double Check Assembly. Bronze Seats, Quarter turn Ball Valves. Maximum working pressure of 175 psi. AWWA C550,	Cla-Val D/D2 Febco – 850 Watts - 709 QT
Fire Hydrants	Water	6"	High Pressure rating (200 psi), Ductile Iron nozzle section, Six- or eight-bolt hole pattern. 2 1/2" - 4" Hose. Gray iron caps. ASTM D1788 Type 2 Grade 1. AWWA C503 (latest) ASTM A 307 Bolts UL Listed and FM approved Provide break-off bolts at above ground flange.	James Jones 3765 CLOW Model 860
Meter Boxes and Lids	Water	¾" & 1"	4-1/2 Body w/ 2-piece Polymer cover and read lid	J&R Concrete Products
Meter Boxes and Lids	Water	1-1/2" & 2"	5-1/2 Body w/ 2-piece Polymer cover and read lid	J&R Concrete Products
Tapping Saddle (PVC)	Water		Saddles to be used for all services and air vac connections; double strap stainless steel or bronze.	Mueller Co, BR2BS James Jones Co. J969
Tapping Saddle (AC or DIP)	Water		Saddles to be used for all services and air vac connections; double strap stainless steel	Mueller Co, BR2B James Jones Co. J979
PVC Pipe Restraints (mechanical)	Water	3" -48"	Gland body, wedges and wedge, 65-45-12 ductile iron ASTM A-536 Ductile Iron Body, ASTM 536, MEGABOND coated restraint devices, a split serrated ring utilized behind bell.	EBAA Iron Megalug - Series 2000 PV Bell Restraint Harness - EBAA Iron Series 1600
PVC Pipe Restraints (push-on)	Water	3" -48"	Approved push-on fittings for PVC pipe	Star "All Grip" Sigma "one-lok"
Valve Boxes	Water		6" Cast Iron drop-in Lid marked "Water" 6-5/8" OD x 18" Double Dipped Valve Can Manufactured from 10 GA steel.	West Coast Pipe, Southland Pipe
Water Test Station	Water		Manufactured from 10 GA steel, epoxy coating, 36"Hx8 5/8" O.D.	Pipeline Products WTS 858P
Corp Stop (PE install)	Water	1" – 2"	Iron Pipe Thread By Female Iron Pipe manufactured to conform to AWWA Standard C-800 and Red Brass 85-5-5-5. Instatite for 1" size Compression for 2" size.	Mueller H15026 Instatite James Jones

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Corp Stop (Copper install)	Water	1" - 2"	Iron Pipe Thread By Female Iron Pipe manufactured to conform to AWWA Standard C-800 and Red Brass 85-5-5-5	Mueller James Jones
Angle Meter Stop (PE install)	Water	1" - 2"	Instatite for 1" size, Compression for 2" size.	Mueller H14266 Instatite James Jones
Angle Meter Stop (Copper install)	Water	1" - 2"		Mueller James Jones
Underground Detection Tape	Water		Blue Polypropylene Mesh with SST wire Blue Polyethylene foil 3" wide, detectable, marked "water"	T-Christy Northtown
PVC Pressure Pipe	Water	6"-12"	AWWA C-900/ Class 200, DR14	Vinyltech, Northern Pipe Products, JM, Diamond Plastic Corp. PW Eagle
PVC Pressure Pipe	Water	14"-16"	AWWA C-905/ ASTM F-477	Northern Pipe Products PW Eagle
Ductile Iron Pipe	Water	3"-48"	PR350, sizes 4"-12" PR250, sizes 14"-48"	Pacific States US Pipe Griffin Tyler, Union
Ductile Iron Fittings	Water	3"-48"	Flanged, Mechanical, Joint or Push On Tees Crosses, Reducers Ect.	EBAA Iron Romac Industries
Copper Pipe	Water	1"-2"	Type K Soft, annealed for sizes greater than 1"	Mueller Streamline, Cerro
Hardware	Water		All flange and mechanical joint bolts and nuts to be blue Type 316 Stainless Steel. Gaskets to be full-faced non-asbestos or flange type.	Tripac Fastners
Underground Detection Tape	Sewer		Green Polypropylene Mesh with SST wire Green Polyethylene foil 3" Wide, detectable, marked "sewer"	T-Christy Northtown
PVC Pipe	Sewer	8" & Larger	ASTM D3034 SDR21 for 8" to 12" SDR26 for >12"	

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Plug Valve	Sewer	8"-24"	Ductile iron, Steel or Iron Body. SST Bearings. Flanged end connections. 275 psi maximum working pressure. 300 Deg. F Working Temp.	DeZurik - PEC (Ductile Iron) Nordstrom: 4"-12" Bolted Gland Iron Plug
PVC Lateral Fittings	Sewer	4" +	PVC schedule 40 DWV solvent weld fittings. Fittings to be glued with P70 primer and HD gray glue, or equal	GPK, Mueller Streamline, Multi-Fit Specified
PVC Lateral Pipe	Sewer	4" +	4" use Sch 40 DWV SWB CL200 PVC 6"-12" use CL200 PVC (SDR26)	Vinyltech, Diamond Plastics Corp. PW Pipe Cresline JM
Pipe Joint Sealant	Sewer		ASTM C990	Ram-Nek
Manhole Frame and Cover	Sewer	24"/36"	36" Standard Manhole ASTM A48 Marked CSD Sewer, Per DWG D-7	South Bay Foundry 1325 Riverside Foundry
Cleanout	Sewer	8"	Standard cover ASTM A48 Marked CSD - Cleanout	Alhambra A-1241
Underground Detection Tape	Reclaimed Water		Purple Polypropylene Mesh with SST wire Purple Polyethylene foil 3" Wide, detectable, marked "Reclaimed Water"	T-Christy Northtown
Underground Detection Tape	Gas		Yellow Polypropylene Mesh with SST wire Yellow Polyethylene foil 3" Wide, detectable, marked "gas"	T-Christy Northtown
Concrete Boxes/Vaults				Jensen Pre-Cast
PCC	Curb, Gutter, Driveways, etc.	Per plan	Portland Cement Concrete for curb and gutter, driveways, sidewalks, and cross gutters shall be class "B" and furnished in accordance with Section 40, 73, and 90 of the Department of Transportation, Standard Specifications, current issue.	
PCC	Structural	Per Plan	Portland Cement concrete for structures shall be Class "A" and furnished in accordance with Section 51 and 90 of the Department of Transportation Standard Specifications, current issue	

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Aggregate Base	Streets	Per Plan	Aggregate Base Material shall be Class 2 furnished in accordance with Section 26 of the Department of Transportation Standard Specifications current issue	
Weed Killer	Streets	Per Plan	Application of weed killer is required before any new asphalt pavement can be constructed. The weed control shall be in accordance with Section 20-4.026 Caltrans Standard Specifications dated January, 1989 and as directed by the City Engineer.	
Asphaltic Concrete	Streets	Per Plan	<p>AC shall be furnished in accordance with Section 39 of the Division of Highway Standard Specifications except as follows:</p> <p>The combined mineral aggregate shall conform to the grading specified for ½ inch maximum, medium grading for base layer and 3/8 inch maximum, medium grading for the surface course.</p> <p>Bituminous binder to be mixed with the mineral aggregate shall be steam -refined paving asphalt grade to be used will be determined by the Engineer.</p> <p>Asphalt paint binder shall be furnished and applied in accordance with Section 93 of the Standard Specifications.</p> <p>Applications of a fog seal is required in an amount approved by the City Engineer.</p>	