



**APPROVED MATERIALS LIST
FOR USE ON NEW CONSTRUCTION OF
POTABLE WATER AND RECYCLED WATER FACILITIES**

This form is part of the Approved Materials Checklist that follows, and is intended for use by developers or contractors constructing potable water and/or recycled water facilities within the service areas of the members of the Water Agencies' Standards Committee. An authorized representative of the developer shall check a single box per item for materials to be used in conjunction with the project, shall fill out this form in its entirety, and shall sign the certification statement herein. Please contact the District if part numbers or models indicated within the Approved Materials Checklist are no longer available. District personnel will review this form and the Approved Materials Checklist and will attach review comments separately or in the space reserved below.

(Space below is reserved for District review and comments)

**WATER AGENCIES' STANDARDS APPROVED MATERIALS LIST
FOR USE ON NEW CONSTRUCTION OF POTABLE WATER AND RECYCLED WATER FACILITIES**

	Project Name	District's Project ID #	Submittal #
DEVELOPER INFORMATION	CONTRACTOR INFORMATION	SUPPLIER INFORMATION	
_____ Name of Developer (Company)	_____ Name of Contractor (Company)	_____ Name of Supplier (Company)	
	_____ Classification and License Number of Contractor		
_____ Contact Person	_____ Contact Person	_____ Contact Person	
_____ Mailing Address	_____ Mailing Address	_____ Mailing Address	
_____ City, State, Zip	_____ City, State, Zip	_____ City, State, Zip	
_____ Telephone	_____ Telephone	_____ Telephone	
_____ FAX	_____ FAX	_____ FAX	
_____ E-Mail Address	_____ E-Mail Address	_____ E-Mail Address	

I hereby certify that the specific products indicated within the attached Approved Materials Checklist represent a true list of materials to be used within the project indicated above, and I acknowledge understanding of the requirements that follow. Any and all specific requirements detailed within the Standard Specifications shall apply to all materials proposed for use on this project. When the notation "Full Submittal Required" or similar language appears within this Approved Materials List, or when required materials do not appear within this Approved Materials List, complete shop drawing submittals are required in accordance with the procedures detailed in the Standard Specifications. All materials supplied to the job site shall conform in all ways to the requirements of the Standard Specifications.

Signature of Developer or Contractor Representative	Date	
Printed Name of Developer or Contractor Representative	Telephone	E-Mail Address

POTABLE AND RECYCLED WATER FACILITIES

ITEM	DESCRIPTION	MANUFACTURER/PRODUCT (Select One)	COMMENTS
ACTUATOR	Electric Valve Actuators used for Valve Control on Motor Operated Valves. Full Submittal Required.	<input type="checkbox"/> Auma SG Series <input type="checkbox"/> EIM <input type="checkbox"/> Rotork <input type="checkbox"/> FloLoc FloPak	
ADAPTER, CAM AND GROOVE FITTING	316 Stainless Steel Adapter, MIP x Male Cam and Groove Fitting, 50 mm (2"), 100 mm (4") or 150 mm (6") with 6 mm (1/4") 304 Stainless Steel Street Ell and Pet Cock Tapped into the Side of the Fitting.	<input type="checkbox"/> OPW Kamlock 600-F-SS <input type="checkbox"/> Dixon "Andrews"/"Boss-Lock" Type F-SS	
ADAPTER COMPRESSION x MIP	25 mm (1") and 50 mm (2") Bronze Adapter, MIP x Compression for copper pipe.	<input type="checkbox"/> A.Y. McDonald 1" & 2" NL-74753Q <input type="checkbox"/> Ford 1" C84-44Q-NL <input type="checkbox"/> Ford 2" C84-77Q-NL <input type="checkbox"/> Jones E-2605SG <input type="checkbox"/> Mueller h-15428N	
ADAPTER, FLANGE COUPLING	150 mm (6") and Larger, MJ x Fig. Steel or Ductile-Iron Construction without Anchor Pins, Epoxy Coated, 304 Stainless Steel Bolts and Nuts.	<input type="checkbox"/> Ford FFCA Style <input type="checkbox"/> JCM 301 <input type="checkbox"/> Romac FCA501 <input type="checkbox"/> Romac FC400 <input type="checkbox"/> Smith-Blair 912 <input type="checkbox"/> Smith-Blair 913	
AIR/VACUUM VALVE ENCLOSURE, STEEL	12 Gauge Steel, Clam Shell Hinged Construction, Polyester Powder Coated. Use Enclosure Size As Indicated Below. 25 mm (1") & 50 mm (2") Air Valve Sizes Use: 400 mm (16") x 600mm (24") 100 mm (4") & 150 mm (6") Air Valve Sizes Use: 600 mm (24") x 900 mm (36") 200 mm (8") Air Valve Size Use: 750mm (30") x 1,050 mm (42") Potable Water Color: Chocolate Brown Recycled Water Color: OSHA Safety Purple	<input type="checkbox"/> Pipeline Products VCDD-1624 <input type="checkbox"/> Pipeline Products VCDD-2436 <input type="checkbox"/> Pipeline Products VCCD-3042 <input type="checkbox"/> Christy's C-WASC-1624 <input type="checkbox"/> Christy's C-WASC-2436 <input type="checkbox"/> Christy's C-WASC-3042	
AIR/VACUUM VALVE ENCLOSURE, PLASTIC	3/16" Wall Polyethylene with UV Stabilizer. (color selection subject to District Engineer approval)	<input type="checkbox"/> Pipeline Products Advantage Series VCAS 1830 & 2436	
AIR/VACUUM VALVE SUCTION SCREEN	For use on 25 mm (1") and 50 mm (2") Air/Vacuum Installations. FIP Nylon Nut Style with 20 Mesh Stainless Steel Screen.	<input type="checkbox"/> Christy's VC Series <input type="checkbox"/> McMaster-Carr 9877K52 <input type="checkbox"/> McMaster-Carr 9877K65 <input type="checkbox"/> Northtown Hytech	

POTABLE AND RECYCLED WATER FACILITIES

ITEM	DESCRIPTION	MANUFACTURER/PRODUCT (Select One)	COMMENTS
ANODE, MAGNESIUM	High or Standard Potential Anode with a Galvanized Steel Core Encased in a Square Magnesium Alloy Ingot Pre-packaged in a Permeable Cotton Cloth Bag Filled with a 75% Gypsum, 20% Bentonite, 5% Sodium Sulfate Mixture. Provide No. 8 AWG Anode Lead with HMWPE insulation. Provide Ingot Weight as Specified on the Approved Plans. See Standard Drawing WC-12. Full Submittal Required.	<input type="checkbox"/> Christy's <input type="checkbox"/> Corrpro Galvatec Alloy <input type="checkbox"/> Calpico	
ANODE, ZINC	Pre-Packaged 6.8 kg (15 lb) Min. Sacrificial Anode, #12 THHN Lead Wire, for the Protection of Copper Tubing. See Standard Drawings WC-17 and WC-18.	<input type="checkbox"/> Hytech Pipeline Products CP-Z15 <input type="checkbox"/> Christy's <input type="checkbox"/> Corrpro Galvatec Alloy <input type="checkbox"/> Calpico	
ANTI-SEIZE COMPOUND	For use on Stainless Steel Bolts and Nuts.	<input type="checkbox"/> Loctite <input type="checkbox"/> Nevr Seize	
BACKFLOW PREVENTER	Reduced Pressure Principal Type Assemblies as Approved by the State of California, Department of Health Services. RPDA-II not permitted without District approval.	As listed on the Foundation for Cross-Connection Control and Hydraulic Research, a Division of the University of Southern California	See WAS Standard Specification 15112
BACKFLOW AND METER ENCLOSURES	Backflow enclosure, hot-dipped galvanized.	Pipeline Products, Inc.: <input type="checkbox"/> BFE-400-HDG (for 3" & 4") <input type="checkbox"/> BFE-600-HDG (for 6") <input type="checkbox"/> BFE-800-HDG (for 8")	
BOLTS AND NUTS, 316 SS	Hex-Head Machine, ASTM A193, Grade B8M Bolts and ASTM A194, Grade 8M Nuts. Full Submittal Required.		
BOLTS AND NUTS, ZINC-PLATED	Hex-Head Machine, Zinc Plated, ASTM A307, Grade A Bolts and ASTM A563 Grade A Finished Hex Nuts. Full Submittal Required.		
BOLTS AND NUTS, FLUOROPOLYMER-COATED	Hex-Head Machine, Fluoropolymer-Coated, ASTM A307, Grade A Bolts Fluoropolymer-Coated, ASTM A563 Grade A Finished Hex Nuts. Full Submittal Required.	<input type="checkbox"/> Tripac 2000 Blue <input type="checkbox"/> Whitford Xylan 1424	
BOLTS, ANCHOR	13 mm (1/2") x 75 mm (3") Stainless Steel Heavy Duty Anchor System with Anchor Assembly with Hex Head Threaded Rod and Washer. (Epoxy Set or Wedge Type) For use on Air Valve and Water Test Station Enclosures. Full Submittal Required.		
BONDING AGENT, EPOXY	Epoxy Resin Based Bonding Agent for Bonding New Mortar or Concrete to Existing Concrete.	<input type="checkbox"/> Sika Sikadur 32 Hi-Mod	No Known Equal

POTABLE AND RECYCLED WATER FACILITIES

ITEM	DESCRIPTION	MANUFACTURER/PRODUCT (Select One)	COMMENTS
CASING END SEAL	6.25 mm (1/4") Thick Styrene Butadiene Rubber, Neoprene, or Ethylene Propylene Diene Monomer Sheet End Seal. Use 25 mm (1") Wide Stainless Steel Bands. Zippered End Seals with Stainless Steel Bands May Also be Used. Full Submittal Required.	<input type="checkbox"/> Advance Products & Systems <input type="checkbox"/> Cascade <input type="checkbox"/> Calpico <input type="checkbox"/> Pipeline Seal & Insulator <input type="checkbox"/> Powerseal <input type="checkbox"/> Raychem	
CASING SPACER	Stainless Steel Casing Spacer, Center Restrained, Position Type with PVC Liner and Non-metallic Anti-friction Runners. Full Submittal Required.	<input type="checkbox"/> Advance Products & Systems <input type="checkbox"/> BWM Co. SS-8 & SS-12 <input type="checkbox"/> Cascade <input type="checkbox"/> Calpico <input type="checkbox"/> Pipeline Seal & Insulator <input type="checkbox"/> Powerseal <input type="checkbox"/> Raychem	
CATHODIC TEST STATION BOX	25.4 kg (54 lb) Concrete Body with 5.4 kg (12 lb) Ductile Iron Lid and Lid Ring. "CTS" Shall Be Cast into the Lid in 25 mm (1") Letters. For Cathodic Protection Test Stations, Anode Ground Beds and Insulated Flange Test Stations.	<input type="checkbox"/> Brooks 1-RT series <input type="checkbox"/> Christy <input type="checkbox"/> Farwest Type 1-RT <input type="checkbox"/> J & R Model V6-R	
CATHODIC WELDING	For Welding Cathodic Bond Wires to Steel Pipelines.	<input type="checkbox"/> Cadweld	
CHLORINE	Liquid (Gas) or Sodium Hypochlorite Solution. Chlorination Plan Submittal Required per Section 15041.		
CLAMP, REPAIR	Stainless Steel, Full circle, Double Lug. For ACP, PVC, DI or CI Pipe, Sizes 100 mm (4") Through 55 mm (20").	<input type="checkbox"/> Cascade CR-2 <input type="checkbox"/> Cascade CRT-2 <input type="checkbox"/> Ford F2 <input type="checkbox"/> Ford FS2 <input type="checkbox"/> JCM 102 <input type="checkbox"/> Mueller 510 <input type="checkbox"/> Powerseal 3111 <input type="checkbox"/> Powerseal 3122 <input type="checkbox"/> Romac SS2 <input type="checkbox"/> Romac CL2 <input type="checkbox"/> Smith-Blair 227 <input type="checkbox"/> Mueller HYMAX Clamp	
COATING, INTERNAL PIPE	For Coating the Internal Pipe Lining for an Insulated Flange. (NSF 61 approved for use in potable water)	<input type="checkbox"/> Aquatapoxy CCI <input type="checkbox"/> Hydro-Pox <input type="checkbox"/> Devoe 233H <input type="checkbox"/> Carboline Phenoline 341 <input type="checkbox"/> PPG Amerlock 2 SKU# AK2 & AM	Wet Application NSF 61 Wet Application Dry Application NSF 61 Dry Application Dry Application

POTABLE AND RECYCLED WATER FACILITIES

ITEM	DESCRIPTION	MANUFACTURER/PRODUCT (Select One)	COMMENTS
COATING, MASTIC	Cold-Applied Coal Tar- or Epoxy-Based Single Component, Self-Priming, Heavy Duty Protective Exterior Coating for Buried Concrete.	<input type="checkbox"/> Carboline Bitumastic 50WB <input type="checkbox"/> Devoe Devtar 5AHS <input type="checkbox"/> Sherwin Williams Tar Guard Coal Tar Epoxy <input type="checkbox"/> Christy's Coal Tar Mastic	
COATING, WATERPROOF	Epoxy Resin-Based Cementitious Trowel Grade Protective Waterproofing for Concrete.	<input type="checkbox"/> Sika Top Seal 107 <input type="checkbox"/> Sto CR 241 <input type="checkbox"/> IMRAE CoatMasters 7007	
COPPER DISC, SOLID	For Plugging Corporation Stops When a Service is to be Abandoned.	<input type="checkbox"/> Ford Copper Disc <input type="checkbox"/> A.Y. McDonald 76125 <input type="checkbox"/> Mueller H-15535-N	
CORPORATION STOP, COMPRESSION x MIP	Bronze Compression x MIP Thread Ball Valve (T-Head only) 25 mm (1") and 50 mm (2") Full Opening.	<input type="checkbox"/> Ford FB1100-Q-NL Series <input type="checkbox"/> Jones E-1935SG <input type="checkbox"/> Jones E-1957SG <input type="checkbox"/> A.Y. McDonald 74704BQ <input type="checkbox"/> Mueller B-25028-N <input type="checkbox"/> Cambridge 1" 311NL-m4M4 <input type="checkbox"/> Cambridge 2" 311NL-m7M7	
CORPORATION STOP, INSULATED	Bronze Compression x MIP Thread Ball Valve (T-Head only) 25 mm (1") Full Opening.	<input type="checkbox"/> Mueller N-35028-N	
CORPORATION STOP, MIP x MIP	Bronze MIP x MIP Thread Ball Valve (T-Head only), 25 mm (1") and 50 mm (2") Full Opening.	<input type="checkbox"/> Ford FB500-NL Series <input type="checkbox"/> Jones E-1943 <input type="checkbox"/> Jones E-1956 <input type="checkbox"/> A.Y. McDonald 73131B <input type="checkbox"/> Mueller B-20013-N <input type="checkbox"/> Mueller B-2969-N <input type="checkbox"/> Cambridge 1" 311NL-M4M4 <input type="checkbox"/> Cambridge 2" 311NL-M7M7	
COUPLING, COMPRESSION x COMPRESSION	Three-Part Compression Coupling (Both Ends) for 25 mm (1") and 50 mm (2") Copper Pipe.	<input type="checkbox"/> Ford C44-Q Series <input type="checkbox"/> Jones E-2609SG <input type="checkbox"/> A.Y. McDonald 74758Q <input type="checkbox"/> Mueller H-15403-N <input type="checkbox"/> Cambridge 1" 119NL-H4H4 <input type="checkbox"/> Cambridge 2" 119NL-H7H7	
COUPLING, C900 PVC DEFLECTION	100 mm (4") through 300 mm (12") Solid PVC for Obtaining Deflection Only. Provides 5-Degree Maximum Deflection.	<input type="checkbox"/> Westlake Pipe & Fittings	
COUPLING, C900 PVC CLOSURE OR REPAIR	100 mm (4") through 300 mm (12") Solid PVC for Closure or Repair.	<input type="checkbox"/> Specified Fittings <input type="checkbox"/> Westlake Pipe & Fittings	

POTABLE AND RECYCLED WATER FACILITIES

ITEM	DESCRIPTION	MANUFACTURER/PRODUCT (Select One)	COMMENTS
COUPLING, C900 PVC CLOSURE, DEFLECTION OR REPAIR	350 mm (14") through 900 mm (36") Solid PVC for Closure, 3-degree maximum Deflection or Repair.	<input type="checkbox"/> IPEX <input type="checkbox"/> NACO Industries <input type="checkbox"/> Scepter	
COUPLING, FLEXIBLE	150 mm (6") Long PVC Flexible Coupling with Stainless Steel Bands. Use For Securing Gate Valve Cap and Can Assembly to 200 mm (8") Class 305 PVC C900 Gate Well.	<input type="checkbox"/> Calder <input type="checkbox"/> DFW/HPI <input type="checkbox"/> Fernco	
COUPLING, GROOVED	Use for Aboveground DI or Steel Pipe 100 mm (4") or Larger.	<input type="checkbox"/> Grinnell #707 <input type="checkbox"/> Tyler Union 500 <input type="checkbox"/> Victaulic Style 44 <input type="checkbox"/> Victaulic Style 77	
COUPLING, HALF, STEEL	Forged Steel Half Coupling, ASTM A105, 3000#, NPT Threads.	<input type="checkbox"/> Bonney Forge	
COUPLING, INSULATED, COMPRESSION x COMPRESSION	Three-Part Compression Insulated Coupling (Both Ends) for 25 mm (1") Copper Pipe.	<input type="checkbox"/> Mueller N-35403-N	
COUPLING, STRAIGHT FLEXIBLE	100 mm (4") and Larger, Steel or Ductile-Iron Construction, Slip x Slip, Epoxy-Coated with 304 or 316 Stainless Steel Bolts and Nuts. For use on AC, PVC, DI, or Steel Pipe.	<input type="checkbox"/> Ford FC1 <input type="checkbox"/> Powerseal 3501 <input type="checkbox"/> Powerseal 3538 <input type="checkbox"/> Romac 501 <input type="checkbox"/> Smith-Blair 441 <input type="checkbox"/> Viking Johnson MaxiFit <input type="checkbox"/> Mueller HYMAX 2	
COUPLING, TRANSITION FLEXIBLE	100 mm (4") and Larger, Steel or Ductile-Iron Construction, Slip x Slip, Epoxy Coated with 304 or 316 Stainless Steel Bolts and Nuts. For use on AC, PVC, DI, or Steel Pipe.	<input type="checkbox"/> Baker <input type="checkbox"/> Ford FC2A <input type="checkbox"/> Ford FC2W Ultra-Flex <input type="checkbox"/> Powerseal 3501 <input type="checkbox"/> Powerseal 3538 <input type="checkbox"/> Powerseal Powermax 3506 <input type="checkbox"/> Romac 501 <input type="checkbox"/> Romac 4" to 12" Macro HP Two-Bolt Extended Range Coupling <input type="checkbox"/> Romac XR501 <input type="checkbox"/> Smith-Blair 413 <input type="checkbox"/> Viking Johnson MaxiFit <input type="checkbox"/> Mueller HYMAX 2 <input type="checkbox"/> Mueller HYMAX Large Diameter Wide-Range (14"-60")	

POTABLE AND RECYCLED WATER FACILITIES

ITEM	DESCRIPTION	MANUFACTURER/PRODUCT (Select One)	COMMENTS
CUSTOMER SIDE SHUT- OFF VALVE	19 mm (¾") and 25 mm (1") Bronze Customer Shut-off (Ball Valve), Inlet Swivel Meter Nut x Outlet FIP Thread, Lockable Tabs, with Lever Handle.	<input type="checkbox"/> Cambridge ¾ 212NL-F3T3H <input type="checkbox"/> Cambridge 1 212NL-F4T4H <input type="checkbox"/> Ford B13-332W-NL w/ HT34 <input type="checkbox"/> Ford B13-444W-NL w/ HT34 <input type="checkbox"/> Jones E-1908W <input type="checkbox"/> A.Y. McDonald 76101MWHB <input type="checkbox"/> Mueller B-24351-1-N (w/ HDL)	
CUSTOMER SIDE SHUT- OFF VALVE	38 mm (1½") and 50 mm (2") Bronze Customer Shut-off (Ball Valve), Inlet Meter Flange x Outlet FIP Thread, Lockable Tabs, with Lever Handle.	<input type="checkbox"/> Cambridge 1 ½ 212NL-F6MF6H <input type="checkbox"/> Cambridge 2 212NL-F7MF7H <input type="checkbox"/> Ford BF13-666W-NL w/HB-67S <input type="checkbox"/> Ford BF13-777W-NL w/HB-67S <input type="checkbox"/> Jones E-1913W <input type="checkbox"/> A.Y. McDonald 76101MWHB <input type="checkbox"/> Mueller B-24337-N	
DECOMPOSED GRANITE	Imported Quarry Decomposed Granite. Full Submittal Required.		
DEFLECTION BEND, PVC C900	5-Degree Deflection Bend Manufactured from C900 PVC Pipe.	<input type="checkbox"/> Ipex	
DISMANTLING JOINT	Telescoping, Adjustable, Double-Flanged Fitting, with High Tensile Strength Zinc-Plated Tie Bars. NSF-61 Epoxy or Nylon Interior and Exterior Coating.	<input type="checkbox"/> Viking Johnson <input type="checkbox"/> Romac DJ400 <input type="checkbox"/> Dresser 131	
DUST CAP, CAM AND GROOVE FITTING, LOCKING	316 Stainless Steel Cam and Groove Fitting Dust Cap, 50 mm (2"), 100 mm (4") or 150 mm (6").	<input type="checkbox"/> OPW Kamlock 700 Type DC-SS <input type="checkbox"/> Dixon "Andrews" Type DC-SS	
ELL, BURY, DUCTILE IRON	150 mm (6") x 400 mm (16") Ductile Iron Bury Ells, Long Radius, Flg x MJ/PO (Use of Short Radius Bury Ells with District Engineer Approval Only).	<input type="checkbox"/> Clow <input type="checkbox"/> Sigma <input type="checkbox"/> South Bay Foundry	
ELL, FIP x COMP, 45 Deg 1/8 BEND	25 mm (1") and 50 mm (2") Bronze Ell, FIP x Compression for Copper Pipe.	<input type="checkbox"/> A.Y. McDonald 74747Q <input type="checkbox"/> Mueller H-15534-N	
ELL, FIP x COMP, 90 Deg 1/4 BEND	25 mm (1") and 50 mm (2") Bronze Ell, FIP x Compression for Copper Pipe.	<input type="checkbox"/> Cambridge 1" 105NL-H4F4 <input type="checkbox"/> Ford L14-44Q-NL <input type="checkbox"/> Ford L14-77Q-NL <input type="checkbox"/> Jones E-2621SG <input type="checkbox"/> A.Y. McDonald 74779Q <input type="checkbox"/> Mueller H-15533-N	

POTABLE AND RECYCLED WATER FACILITIES

ITEM	DESCRIPTION	MANUFACTURER/PRODUCT (Select One)	COMMENTS
ELL, SUPER GRIP TYPE	25 mm (1") and 50 mm (2") Bronze Ell Compression x Compression for Copper Pipe.	<input type="checkbox"/> Cambridge 1" 105NL-H4H4 <input type="checkbox"/> Cambridge 2" 105NL-H7H7 <input type="checkbox"/> Ford L44-Q-NL Series <input type="checkbox"/> Jones E-2611SG <input type="checkbox"/> A.Y. McDonald 74761Q <input type="checkbox"/> Mueller H-15526-N	
EPOXY ADHESIVE	High-Modulus, Low-Viscosity, Epoxy Resin-Based Adhesive Suitable for Grouting Bolts or Dowels.	<input type="checkbox"/> Sika Sikadur 31 <input type="checkbox"/> Sika Sikadur 35 <input type="checkbox"/> Simpson Strong-Tie	NSF Products
EXPANSION JOINT	For Water Pipeline Bridge Crossings.	<input type="checkbox"/> Onyx Valve 99 <input type="checkbox"/> Powerseal 3563 <input type="checkbox"/> Smith-Blair 611 <input type="checkbox"/> Smith-Blair 612	
EXPANSION JOINT, RUBBER	Expansion Joints at Reservoir and Pump Station Inlet/Outlet Piping to Allow Lateral Movement and Isolate Vibration.	<input type="checkbox"/> General Rubber 1050 <input type="checkbox"/> General Rubber 1075 <input type="checkbox"/> Holz CSM <input type="checkbox"/> Holz CR <input type="checkbox"/> Holz C11R <input type="checkbox"/> Mercer 500-700 <input type="checkbox"/> Metraflex Metra <input type="checkbox"/> Red Valve Redflex	
FIRE HYDRANT BREAK-OFF CHECK VALVE	Break-off Valves for Fire Hydrants. Full Submittal Required.	<input type="checkbox"/> AVK Flowguard II <input type="checkbox"/> James Jones Co. J-5000 <input type="checkbox"/> Clow LBIW 400A <input type="checkbox"/> Clow LP619 Eagle CNC Technologies: <input type="checkbox"/> Hydrant Guard HG1 <input type="checkbox"/> Hydrant Guard HG2	
FIRE HYDRANT BREAK-OFF CHECK VALVE, RETROFIT ON PREEXISTING INSTALLATION	Break-off Valves for Fire Hydrants, retrofit on preexisting installation. Full Submittal Required.	<input type="checkbox"/> Clow LP 619 Eagle CNC Technologies: <input type="checkbox"/> Hydrant Guard HG1 <input type="checkbox"/> Hydrant Guard HG2	
FIRE HYDRANT CAP	Screwed Brass or Ductile-Iron Cap for Fire Hydrant Hose Ports, 63 mm (2½") and 100 mm (4").	<input type="checkbox"/> AVK <input type="checkbox"/> Jones <input type="checkbox"/> Long Beach Iron <input type="checkbox"/> US Pipe	

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ITEM	DESCRIPTION	MANUFACTURER/PRODUCT (Select One)	COMMENTS
FIRE HYDRANT SPOOL, DUCTILE OR CAST IRON, FLANGED	Ductile- or Cast-Iron Spool with Integrally Cast Flanges and Machined or Cast Exterior Grooves. Spools 300 mm (12") or Longer Shall Have Grooves 75 mm (3") from Each Flange. Spools Shorter than 300 mm (12") Shall Have One Groove Centered Between the Flanges. Grooves Shall be 5 mm (3/16") Deep, ±2 mm (1/16") and 6 mm (1/4") Wide, ±2 mm (1/16"). Full Submittal Required.	<input type="checkbox"/> Clow <input type="checkbox"/> Sigma <input type="checkbox"/> South Bay Foundry	
FIRE HYDRANT, 1.03 MPa (150 psi)	150 mm (6") Standard 1.03 MPa (150 psi) Wet Barrel Ductile-Iron (DI) or Bronze Fire Hydrants with Six-Hole Bolt Pattern. DI Hydrants shall be Fusion Epoxy Lined. Color shall be Safety Yellow.	<input type="checkbox"/> AVK 2472 <input type="checkbox"/> AVK 2492 <input type="checkbox"/> Clow 800 Series (D.I. Only) <input type="checkbox"/> Clow 2050 <input type="checkbox"/> Clow 2060 <input type="checkbox"/> Clow 2065 <input type="checkbox"/> Jones J3700 <input type="checkbox"/> Jones J3765 <input type="checkbox"/> Jones J3775 <input type="checkbox"/> Jones J4040 <input type="checkbox"/> Jones J4060 <input type="checkbox"/> Jones 4065	
FIRE HYDRANT, 1.38 MPa (200 psi)	150 mm (6") High Pressure 1.38 MPa (200 psi) Wet Barrel, Ductile-Iron Fire Hydrant with Six-Hole Bolt Pattern, Fusion Epoxy Lined. Color shall be Safety Yellow.	<input type="checkbox"/> AVK 2422 <input type="checkbox"/> AVK 2472 <input type="checkbox"/> AVK 2492 <input type="checkbox"/> Clow 800 Series <input type="checkbox"/> Jones 4040 <input type="checkbox"/> Jones 4060 <input type="checkbox"/> Jones 4065	
FIRE HYDRANT, 1.72 MPa (250 psi)	150 mm (6") High Pressure 1.72 MPa (250 psi) Wet Barrel, Ductile-Iron Fire Hydrant with Six-Hole Bolt Pattern, Fusion Epoxy Lined. Color shall be Safety Yellow.	<input type="checkbox"/> Clow 800 Series <input type="checkbox"/> Jones 4040 <input type="checkbox"/> Jones 4060 <input type="checkbox"/> Jones 4065	
FIRE HYDRANT, 1.72 MPa (250 psi)	150 mm (6") High Pressure 1.72 MPa (250 psi) Dry Barrel, Ductile-Iron Fire Hydrant, Fusion Epoxy Lined. Color shall be Safety Yellow.	<input type="checkbox"/> U.S. Pipe Metropolitan 250	
FITTING, DUCTILE IRON	Flanged, Mechanical Joint or Push-on Tees, Bends, Crosses, Reducers, Adapters, etc., for Water Lines 100 mm (4") and Larger. Manufactured per AWWA C110, C111 and C153.	<input type="checkbox"/> Sigma <input type="checkbox"/> SIP Industries <input type="checkbox"/> Star <input type="checkbox"/> Tyler Union	
FITTING, GROOVED	Grooved Ductile-Iron Fittings for Grooved End Pipes, 100 mm (4") through 600 mm (24").	<input type="checkbox"/> Grinnell <input type="checkbox"/> Tyler Union G-B <input type="checkbox"/> Victaulic	

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ITEM	DESCRIPTION	MANUFACTURER/PRODUCT (Select One)	COMMENTS
GASKET	3.125 mm (1/8") Thick Full Face Aramid Fiber Bound with Nitrile. No Asbestos Content. NSF approved.	<input type="checkbox"/> Calpico <input type="checkbox"/> Garlock/Tripac 3000 <input type="checkbox"/> JM Eagle <input type="checkbox"/> Klinger 4401 <input type="checkbox"/> TRIPAC NAM 37C <input type="checkbox"/> TEADIT 1161 SAN	
GASKET, RUBBER, GASOLINE-RESISTANT	Gasoline-Resistant Pipe Gaskets for Water Mains.	<input type="checkbox"/> Newby	
GATE WELL 100 mm (4")	For Buried 50 mm (2") Ball Valve Installations, 100 mm (4") SDR-35 PVC Sewer Pipe.	Refer to PIPE, PVC SDR35 (Sewer Materials List)	
GATE WELL 200 mm (8")	For Valve Installations 100 mm (4") and Larger, 200 mm (8") C900 Class 305 PVC Pressure Pipe, White or Blue for Potable Water, Purple for Recycled Water.	Refer to PIPE, PVC C900	
GATE WELL LID-100 mm (4")	Ductile- or Cast-Iron Lid used for Air Valve Ball Valve Access, 100 mm (4") Nominal Diameter with a 62 mm (2 1/2") Long Skirt.	<input type="checkbox"/> South Bay Foundry B50	
GATE WELL LID-200 mm (8")	Ductile- or Cast-Iron Lid used for Valve Access, 200 mm (8") Nominal Diameter Lid with a 150 mm (6") Long Skirt and Lifting Slot. For use with Type 1 Gate Well Installations. See Standard Drawing WV-03 for Required Markings.	<input type="checkbox"/> South Bay Foundry SBF (single lid) 1200/40 lb. lid	
GATE WELL LID AND CAN ASSEMBLY	Ductile- or Cast-Iron, Machined Frame with Ductile- or Cast-Iron Lid. Used for Valve Access. 200 mm (8") Nominal Diameter Lid with a 150 mm (6") Long Skirt and Lifting Slot. For use with Type 2 Gate Well Installations. See Standard Drawing WV-03 for Required Markings.	<input type="checkbox"/> South Bay Foundry SBF 1200 Cap and Can (2-piece) Assembly <input type="checkbox"/> Sigma WAS Box MB4980-35	
GREASE	For Bolt Corrosion Protection on Buried Bolts.	<input type="checkbox"/> Sanchem NO-OX-ID <input type="checkbox"/> Dearborn Chemical	
GROUT	Non-Shrink Cementitious Construction Grout for Crack Repair, Flooring Mortar, Dowel Grouting, Crack Sealing and General Binding.	<input type="checkbox"/> Sika Sikagrout 212 <input type="checkbox"/> Sto Epoxy Binder CR633 <input type="checkbox"/> Sto Epoxy Gel CR635 <input type="checkbox"/> Sto N-S Grout CR732	
HUMIDISTAT	120 Volt, 6.0 Ampere, Single Phase with Adjustable Low and High Lockable Limit Stops. Adjustable Range of 20% to 70% Humidity and Suitable for Wet Locations. Full Submittal Required.		
INSULATING BLANKET	Insulating Blanket for Corrosion Interference Mitigation.	<input type="checkbox"/> McMaster-Carr	

POTABLE AND RECYCLED WATER FACILITIES

ITEM	DESCRIPTION	MANUFACTURER/PRODUCT (Select One)	COMMENTS
INSULATING BUSHING	Dielectric nylon, all threaded, heavy hex, bushing to insulate connections between different metals to prevent electrolysis & galvanic corrosion.	<input type="checkbox"/> Calpico <input type="checkbox"/> Corrosion Control Products <input type="checkbox"/> F.H. Mahoney	
INSULATING COUPLINGS	Insulating Couplings for Corrosion Protection of Pipelines.	<input type="checkbox"/> Romac IC400 <input type="checkbox"/> Romac IC501 <input type="checkbox"/> Lochinvar	
INSULATING GASKET KIT	Insulating Gasket Kits for Corrosion Protection of Pipelines.	<input type="checkbox"/> Advance Products & Systems <input type="checkbox"/> Calpico <input type="checkbox"/> Pipeline Seal & Insulator GasketSeal <input type="checkbox"/> Pipeline Seal & Insulator LineBacker <input type="checkbox"/> Farwest	
ISOLATOR, VIBRATION	Wire Rope Seismic Support for Pipelines for Isolating Vibrations and Shocks.	<input type="checkbox"/> Enidine Steelpaw	
JOINT SEALING COMPOUND	Pre-Formed, Cold-Applied, Adhesive, Rope-Like, Butyl Rubber Gasket to Form a Watertight Seal Between Precast Vault & Manhole Sections.	<input type="checkbox"/> Quickset Joint Sealing Compound <input type="checkbox"/> A-Loc Butyl Lok	
LUBRICANT, PIPE GASKET	Rubber gasket pipe lubricant for use on PVC or ductile-iron pipe joints. ANSI/NSF-61 certified. Does not support bacteriological growth. Non-toxic. Odorless, non-staining, spreads easily and provides optimum lubricity. Full Submittal Required.		
MARKER, UTILITY	Flexible Reinforced Polymer Glass Fiber Composite Strip Identification Marker. Branded or Customized Identification Markings for Pipelines and Appurtenances May Be Required.	<input type="checkbox"/> Carsonite CUM-375 <input type="checkbox"/> Christy's	
METER ADAPTER	For Replacing Large Meters with Smaller Meters.	<input type="checkbox"/> Cambridge 440 Series <input type="checkbox"/> Ford A Series <input type="checkbox"/> Jones E-128H <input type="checkbox"/> A.Y. McDonald 10J Series <input type="checkbox"/> Mueller H10889-N	

POTABLE AND RECYCLED WATER FACILITIES

ITEM	DESCRIPTION	MANUFACTURER/PRODUCT (Select One)	COMMENTS
METER BOX	250 mm x 500 mm (10" x 20" x 12") Polymer Meter Box and 2-Piece Cover for 25 mm (1") Water Services. Gray for Potable Water use, Purple for Recycled Water use.	<input type="checkbox"/> Armorcast A6000486 Box with A6000483-DQ Cover and A6000487T Drop-In Read Lid <input type="checkbox"/> Armorcast A6000486SA Box with A6000483-DQ Cover and A6000487T Drop-In Read Lid <input type="checkbox"/> Armorcast A6000486SA-WAS with A6000483-DQ Cover and A6000487T Drop-In Read Lid <input type="checkbox"/> DFW Plastics Inc. DFW486RFNP4-12 Box and DFW486RF-AF4 Lid <input type="checkbox"/> Oldcastle 10202010 Box and 10204010 lid with MN00114 Drop-In Cover	
METER BOX	425 mm x 750 mm (17" x 30" x 12") Polymer Meter Box and 2-Piece Cover for 50 mm (2") Water Services and Blowoff Assemblies. Gray for Potable Water use, Purple for Recycled Water use.	<input type="checkbox"/> Armorcast A6001640PCX12 Box with A6001643-DZ Cover and A6000482T Drop-In Read Lid <input type="checkbox"/> DFW Plastics Inc. DFW1640CNP4-12 Box with DFW1640C-4 914 Cover and DFW1640C-4 Drop-in read Lid <input type="checkbox"/> Oldcastle Fibrelyte FL36 <input type="checkbox"/> Oldcastle H-Series	
METER BOX	325 mm x 600 mm x 300 mm (13" x 24" x 12") Polymer Meter Box with Flared Fiberglass Base rated 20K and 2-Piece Cover for use with Dual Water Service Assembly. Gray for Potable Water use.	<input type="checkbox"/> Armorcast A6001946TX12-SDGTD with A6001969-DQ Cover and A6000487T Drop-In Read Lid <input type="checkbox"/> Oldcastle Fibrelyte FL30 <input type="checkbox"/> Oldcastle H-Series	
METER BOX ONE PIECE COVER	Use only as directed by the District – 20K Rated: 10" x 20" 17" x 30" 13" x 24"	<input type="checkbox"/> Armorcast A6000483T <input type="checkbox"/> Armorcast A6001947T <input type="checkbox"/> Armorcast A6001969 <input type="checkbox"/> Armorcast A6000483T-LT (AMI) <input type="checkbox"/> Armorcast A6001947T-H2 (AMI) <input type="checkbox"/> Oldcastle Fibrelyte <input type="checkbox"/> Nicor Read-Rite AMI Retrofit Lids	
METER FLANGE	Bronze Meter Flanges for 38 mm (1½") and 50 mm (2") Meters with Slotted Holes.	<input type="checkbox"/> Cambridge 1 ½" 5030295NL <input type="checkbox"/> Cambridge 2" 5030390NL <input type="checkbox"/> Ford CF-NL Series <input type="checkbox"/> Jones E-129 <input type="checkbox"/> A.Y. McDonald 7610F	

POTABLE AND RECYCLED WATER FACILITIES

ITEM	DESCRIPTION	MANUFACTURER/PRODUCT (Select One)	COMMENTS
METER STOP, ANGLE COMPRESSION x METER	25 mm (1") Bronze Angle Meter Stop (Ball Valve) with 90-Degree Lock Wing, Inlet 110 Style Compression x Outlet Swivel Meter Nut.	<input type="checkbox"/> Cambridge 210NL-H4T4 <input type="checkbox"/> Ford BA43-444W-Q-NL <input type="checkbox"/> Jones E-1963WSG, <input type="checkbox"/> A.Y. McDonald 74602BQ <input type="checkbox"/> Mueller B24258-1-N	
METER STOP, ANGLE COMPRESSION x METER	50 mm (2") Bronze Angle Meter Stop (Ball Valve) with 90-Degree Lock Wing, Inlet 110 Style Compression x Outlet Meter Flange.	<input type="checkbox"/> Cambridge 210NL-H7MF7 <input type="checkbox"/> Ford BFA43-777W-Q-NL <input type="checkbox"/> Jones E-1975WSG <input type="checkbox"/> A.Y. McDonald 74602BQ <input type="checkbox"/> A.Y. McDonald 74606BQ <input type="checkbox"/> Mueller B-24276-N	
METER STOP, DUAL ASSEMBLY	Special tandem setting for 25 mm (1") and 18.8 mm (¾") Angle Meter Stop (Ball Valve) with Padlock Wings and a 25 mm (1") Single Inlet 110 Style Compression x Outlet Swivel Meter Nut	<input type="checkbox"/> Ford UVB-95271-02-NL <input type="checkbox"/> A.Y. McDonald 709UQEW 1x1	
METER, WATER	Furnished and supplied by the Agency of Jurisdiction.		
MORTAR, REPAIR	Two-Component, Low Shrinkage, Cementitious Mortar with High Compressive and Bonding Strength.	<input type="checkbox"/> Sika Sika Top 122 <input type="checkbox"/> Sika Sika Top 123 <input type="checkbox"/> Sto CR 735 <input type="checkbox"/> Sto CR 740	
NOZZLE, WELD-ON	Weld-on Nozzle with Reinforcing Pad or Collar for Connection to CMC&L Steel Pipe. ASTM A53B 6 mm (1/4") Minimum Thickness Seamless Pipe, Mortar Lined and Coated with AWWA C207 Flange. Full Submittal Required.		
PAINT, ACRYLIC TRAFFIC PAINT	One-Component, Rapid Drying 100% Solids Acrylic Waterborne Marking Paint Meeting Caltrans Specification #8010-21C-30. See Section 09910 for Color and Application Requirements.	<input type="checkbox"/> TMT-Pathway Waterborne Traffic Paint #2343A9 <input type="checkbox"/> Devoe: Pervo by ICI <input type="checkbox"/> Red #7004 <input type="checkbox"/> Black #6002 <input type="checkbox"/> White #801020 <input type="checkbox"/> Sherwin Williams Set Fast Acrylic Latex Traffic Marking Paint: <input type="checkbox"/> Red #TM2132 <input type="checkbox"/> Black #TM2135 <input type="checkbox"/> Yellow #TM227 <input type="checkbox"/> White #TM2160	

POTABLE AND RECYCLED WATER FACILITIES

ITEM	DESCRIPTION	MANUFACTURER/PRODUCT (Select One)	COMMENTS
PAINT, ACRYLIC, SOLVENTBORNE	Intended for metal substrates	<input type="checkbox"/> FSC Zero-Rust Primer 100 <input type="checkbox"/> FSC Silicone Poly Plus SP7 250g <input type="checkbox"/> FSC Silicone Poly Plus SP 50g	
PAINT, ACRYLIC, WATERBORNE	Intended for metal substrates	<input type="checkbox"/> Devoe Devflex 659 <input type="checkbox"/> Carboline Carbocrylic 3359 DTM <input type="checkbox"/> Sherwin Williams Sher-CRLY HPA <input type="checkbox"/> Sherwin Williams Pro Industrial <input type="checkbox"/> Sherwin Williams Primer Pro-CRYL <input type="checkbox"/> Tnemec Enduratone 1029 <input type="checkbox"/> Ellis Maximus 7900 Series <input type="checkbox"/> Ellis Waterborne DTM 9600 Series <input type="checkbox"/> Rust-Oleum 3100 system DTM <input type="checkbox"/> Rust-Oleum 3700 system DTM <input type="checkbox"/> Rust-Oleum 5200 system DTM <input type="checkbox"/> Rust-Oleum S37 Metalmax DTM	
PAINT, EPOXY / URETHANE SYSTEM	Intended for metal substrates. Plural component system consisting of epoxy prime and intermediate coats with a compatible urethane finish coat.	<input type="checkbox"/> Carboguard 890 VOC Epoxy with Carbothane 133 or 134MC Urethane <input type="checkbox"/> Devoe Bar-Rust 231 Epoxy with Devthane 378H or 379H Urethane <input type="checkbox"/> Tnemec H B Epoxoline II L69F Epoxy with Tnemec Endura-Shield 1080 Urethane	
PAINT, POLYESTER POWDER	TGIC Polyester Powder For Steel Air Valve and Water Test Station Enclosures.	<input type="checkbox"/> Tiger Drylac Series 49, Color #8017, Chocolate Brown	
PENETRATION SEALS, INTERLOCKING	Mechanical Link Type Interlocking Vault, Casing and Building Penetration Seals.	<input type="checkbox"/> Advance Products & Systems Interlynx <input type="checkbox"/> Link Seal	
PIPE, ASBESTOS CEMENT	150 mm (6") through 600 mm (24") AWWA C400 Pipe. District Approval and Full Submittal Required.		
PIPE, COPPER TUBING	25 mm (1") Type K Soft Seamless Rolled Tubing and, 50 mm (2") Type K Soft Seamless Straight Lengths.	<input type="checkbox"/> Cerro <input type="checkbox"/> Cambridge-Lee <input type="checkbox"/> Mueller <input type="checkbox"/> Phelps-Dodge	

POTABLE AND RECYCLED WATER FACILITIES

ITEM	DESCRIPTION	MANUFACTURER/PRODUCT (Select One)	COMMENTS
PIPE, DUCTILE IRON	For Water Lines 100 mm (4") and Larger Manufactured per AWWA C111, C115, C150, and C151.	<input type="checkbox"/> American Pipe <input type="checkbox"/> U.S. Pipe <input type="checkbox"/> McWane Ductile	
PIPE, PVC C900, 100 mm (4") through 300 mm (12")	For Water Lines 100 mm (4") through 300 mm (12") and 200 mm (8") Gate Wells. Manufactured per AWWA C900, Class 305, DR14 Only.	<input type="checkbox"/> Diamond Plastics <input type="checkbox"/> IPEX <input type="checkbox"/> JM Eagle <input type="checkbox"/> Westlake Pipe & Fittings <input type="checkbox"/> VinylTech	
PIPE, PVC C900, 350 mm (14") through 900 mm (36")	For Water Lines 350 mm (14") through 900 mm (36"). Manufactured per AWWA C900, Class 305 (DR14), Class 235 (DR18), or Class 165 (DR25).	<input type="checkbox"/> Diamond Plastics <input type="checkbox"/> IPEX <input type="checkbox"/> JM Eagle <input type="checkbox"/> Westlake Pipe & Fittings <input type="checkbox"/> VinylTech	
PIPE, STEEL, CEMENT-MORTAR LINED AND COATED (CML&C)	Steel Cylinder (CML&C), per AWWA M11 and Section 15061. 6 mm (¼") Minimum Wall Thickness. Steel Pipes Used for Recycled Water Installation are to be Identified Per District Requirements. Full Submittal Required.		
PLASTIC ENCASEMENT (Sleeve)	12-mil Thick Polyethylene Encasement Sleeve for Ductile Iron Pipe (DIP) per AWWA C105 and Recycled PVC, CMC/L, or DIP Non-Purple Water Pipe. Clear Sleeve for Potable Water, Purple Sleeve for Recycled Water.	<input type="checkbox"/> Christy's <input type="checkbox"/> Northtown Co.	
PLASTIC WRAP (Sheet)	8-mil Thick Polyethylene Encasement for Buried Fittings and Valves. Clear Sleeve for Potable Water, Purple Sleeve for Recycled Water.		
PRIMER, WAX TAPE	Surface Primer for Underground Application of Petrolatum Wax Tape.	<input type="checkbox"/> Carboline Carbowrap Paste <input type="checkbox"/> Trenton Tem-Coat	
PROTECTOR POST, STEEL	100 mm (4") Diameter, 6.25 mm (0.250") Wall Galvanized A-120 Steel Pipe, Concrete Filled with 100 mm (4") Galvanized Fence Post Cap.		
REFERENCE ELECTRODE, COPPER SULFATE	High or Standard Potential Electrode with PVC Pipe Housing Pre-Packaged in a Permeable Cotton Cloth Bag Filled with a 50% Gypsum/50% Powered Bentonite Mixture. Electrode Shall have a Design Life of 15 Years with a Stability of ±5 Millivolts under a 3.0 Microampere Load. Provide Electrode with Integrally Attached #10 AWG HMW/PE Insulated Wire. Full Submittal Required.	<input type="checkbox"/> GMC Staperm Reference Electrode Model#1 CU-1-UG	

POTABLE AND RECYCLED WATER FACILITIES

ITEM	DESCRIPTION	MANUFACTURER/PRODUCT (Select One)	COMMENTS
RESTRAINT SYSTEM FOR JOINT RESTRAINTS	360-Degree Split Ring Serrated Style Restraint System for Ductile-Iron and PVC Pipe for the use of bell restraints where two pipes join one another, Sizes 100 mm (4") through 750 mm (30"). Prior Approval of District Engineer is Required. Full Submittal Required.	<input type="checkbox"/> Ford Uni-Flange 1300 & 1350 Series <input type="checkbox"/> Romac 611 & 612 <input type="checkbox"/> Romac ALPHA <input type="checkbox"/> Sigma PV-LOC PWM <input type="checkbox"/> Smith-Blair Series 115 & 165 <input type="checkbox"/> Star Series 1000G2 & 1100G2	
RESTRAINT SYSTEM FOR MECHANICAL FITTINGS	360-Degree Single Ring with Radial Screws and Gripping Wedge Style Restraint System for Ductile-Iron and PVC Pipe mechanical joints, Sizes 100 mm (4") through 750 mm (30"). Prior Approval of District Engineer is Required. Full Submittal Required.	<input type="checkbox"/> EBAA Iron Series 2000PV	
RESTRAINT SYSTEM FOR PUSH ON FITTINGS	360-Degree Split Ring Serrated Style Restraint System for Ductile-Iron and PVC Pipe push on joints with the use of DI fittings, Sizes 100 mm (4") through 200 mm (8"). Prior approval of District Engineer is required. Full submittal Required.	<input type="checkbox"/> Ford Uni-Flange 1300 & 1390 Series <input type="checkbox"/> Romac 611 & 612 <input type="checkbox"/> Sigma PV-LOC PWM <input type="checkbox"/> Smith-Blair Series 115 & 165 <input type="checkbox"/> Star Series 1000G2 & 1100G2 <input type="checkbox"/> StarGrip 3000 & 4000 Series <input type="checkbox"/> EZ Grip EZPTP DI & EZPTP PVC	
ROCK, CRUSHED	Washed 10 mm (3/8") and 19 mm (3/4") Crushed Rock. 10 mm (3/8") for Use in Meter Boxes Only. Full Submittal Required.		
SEALANT	Chemical Grout for Joint Sealing.	<input type="checkbox"/> 3M Scotch Seal	
SEISMIC COUPLING	Flexible Expansion Joints for Pipelines, Reservoirs and Pump Stations. Full Submittal Required.	<input type="checkbox"/> EBAA Iron Flex-Tend <input type="checkbox"/> Romac FJ Restraint <input type="checkbox"/> Star Pipe Starflex 5000	
SEISMIC SENSOR DEVICE	Seismic Sensors for Reservoirs and Pipelines. Full Submittal Required.		
SERVICE SADDLE FOR ACP AND CI PIPE	Cast Brass ASTM B62 Body with Silicone Bronze Double Straps, IP Outlet Sizes 25 mm (1") and 50 mm (2").	<input type="checkbox"/> Cambridge 810 Series <input type="checkbox"/> Ford 202B <input type="checkbox"/> A.Y. McDonald 3826 <input type="checkbox"/> Mueller BR2B Series <input type="checkbox"/> Romac 202B <input type="checkbox"/> Smith-Blair 323	

POTABLE AND RECYCLED WATER FACILITIES

ITEM	DESCRIPTION	MANUFACTURER/PRODUCT (Select One)	COMMENTS
SERVICE SADDLE FOR PVC C900 PIPE	Bronze or Brass Saddle with Stainless Steel Four Bolt Strap(s), IP Thread Outlet for Saddle Sizes 25 mm (1") and 50 mm (2") Installed on Pipe Sizes 100 mm (4") through 300 mm (12").	<input type="checkbox"/> Cambridge 812 Series <input type="checkbox"/> Ford 202BS <input type="checkbox"/> Jones J-969 <input type="checkbox"/> A.Y. McDonald 3846 <input type="checkbox"/> Mueller BR2S Series <input type="checkbox"/> Romac 202BS <input type="checkbox"/> Smith-Blair 393	
SERVICE SADDLE FOR PVC C900 PIPE	Bronze or Brass Saddle with Stainless Steel Four Bolt Strap(s), IPT Thread Outlet for Sizes 25 mm (1") and 50 mm (2") Installed on Pipe Sizes 400 mm (16") and Larger.	<input type="checkbox"/> A.Y. McDonald 3846 <input type="checkbox"/> Ford 202BS <input type="checkbox"/> Jones J-969	
TAG, BRASS IDENTIFICATION	25 mm (1") Diameter, 18 Gauge Brass with 4.76 mm (3/16") Die-Stamped Letters and Numbers, Suitable for Attachment to Cathodic Protection Wires using a Nylon Zip Tie.		
TAPE, OUTER WRAP	Adhesive Plastic Outer Wrap for Wax Petrolatum Tape in Underground Applications.	<input type="checkbox"/> Polyken 960 <input type="checkbox"/> Trenton Polyply	
TAPE, UTILITY	10 mil to 50 mil x 50 mm (2") Wide General Utility Tape for Corrosion Protection of Aboveground and Underground Pipes and Fittings.	<input type="checkbox"/> 3M Scotchwrap 50 <input type="checkbox"/> 3M Scotchwrap 51 <input type="checkbox"/> Calpico <input type="checkbox"/> Christy's <input type="checkbox"/> Northtown <input type="checkbox"/> Polyken 900	
TAPE, WARNING/ IDENTIFICATION	150 mm (6") wide, Warning/Identification (Non-Detectable) Marking Tape for Buried Facilities. See Section 15000 for Required Colors and Markings.	<input type="checkbox"/> Calpico Type 1 <input type="checkbox"/> Christy's Type 1 <input type="checkbox"/> Line-Tec Type B <input type="checkbox"/> Terra Tape Standard 250 <input type="checkbox"/> Thor Elast Tec <input type="checkbox"/> Northtown	
TAPE, WARNING/ IDENTIFICATION FOR RECYCLED IRRIGATION	75 mm (3") wide, Warning/Identification (Non-Metallic) Marking Tape for Buried Irrigation Pipelines, Purple Color with continuous warning "CAUTION RECLAIMED WATER MAIN BURIED BELOW."	<input type="checkbox"/> Calpico Type 1 <input type="checkbox"/> Christy's Type 1 <input type="checkbox"/> Line-Tec Type B <input type="checkbox"/> Terra Tape Standard 250 <input type="checkbox"/> Thor Elast Tec <input type="checkbox"/> Northtown	
TAPE, WAX ABOVEGROUND	Petrolatum-Saturated Synthetic Fabric Tape for use on Aboveground Couplings, Flanges, Fittings, etc.	<input type="checkbox"/> Trenton #2 Wax-Tape	
TAPE, WAX UNDERGROUND	Petrolatum-Saturated Synthetic Fabric Tape for use on Underground Couplings, Flanges, Fittings, etc. Primer and Outer Wrap Required.	<input type="checkbox"/> Carboline Densyl Tape <input type="checkbox"/> Trenton #1 Wax-Tape	

POTABLE AND RECYCLED WATER FACILITIES

ITEM	DESCRIPTION	MANUFACTURER/PRODUCT (Select One)	COMMENTS
TAPPING SLEEVE FOR AC, CI, DI, AND PVC PIPE	Fabricated Steel Tapping Sleeve for 100 mm (4") Through 300 mm (12") Wet Taps. Epoxy Coated with Stainless Steel Bolts and Nuts.	<input type="checkbox"/> Baker 428 Series <input type="checkbox"/> Ford FTSC <input type="checkbox"/> JCM 412 <input type="checkbox"/> Mueller 615 <input type="checkbox"/> Mueller 619 <input type="checkbox"/> Powerseal 3460 <input type="checkbox"/> Romac FTS-420 <input type="checkbox"/> Smith-Blair 622	
THREDOLET	Forged Steel Fitting, ASTM A105. 3000#, NPT Threads.	<input type="checkbox"/> Bonney Forge	
VALVE STEM EXTENSION, STEEL	Round or Square 37 mm (1½") Diameter Steel Rod, Welded Construction, Hot Dipped Galvanized with Top Centering Ring and AWWA 50 mm (2") Operating Nuts Top and Bottom. Use for Extensions Longer Than 2.4 m (8').	<input type="checkbox"/> Pipeline Products SX-900 <input type="checkbox"/> South Bay Foundry E4160 <input type="checkbox"/> Christy's	
VALVE, AIR RELEASE, 1.03 MPa (150 psi)	Pressure Air Release Valve, Cast-Iron Body with Stainless Steel Internal Parts. Suction Screens Required. 25 mm (1") through 75 mm (3") NPT, 100 mm (4") Flanged. Full Submittal Required.	<input type="checkbox"/> APCO 50 <input type="checkbox"/> APCO 200 <input type="checkbox"/> APCO 200A <input type="checkbox"/> Crispin PL10 <input type="checkbox"/> Crispin PL20 <input type="checkbox"/> Crispin PL30 <input type="checkbox"/> Crispin PL41 <input type="checkbox"/> Val-Matic #45 <input type="checkbox"/> Val-Matic #88	
VALVE, AIR RELEASE, 2.05 MPa (300 psi)	Pressure Air Release Valve, Cast-Iron Body with Stainless Steel Internal Parts. Suction Screens Required 25 mm (1") through 75 mm (3") NPT, 100 mm (4") Flanged. Full Submittal Required.	<input type="checkbox"/> APCO 50 <input type="checkbox"/> APCO 200 <input type="checkbox"/> APCO 200A <input type="checkbox"/> Crispin PL10H <input type="checkbox"/> Crispin PL20H <input type="checkbox"/> Crispin PL30H <input type="checkbox"/> Crispin PL42H <input type="checkbox"/> Val-Matic #45 <input type="checkbox"/> Val-Matic #88	
VALVE, BALL	25 mm (1") and 50 mm (2") Bronze, Straight, Compression x Compression.	<input type="checkbox"/> Cambridge 1" 202NL-H4H4 <input type="checkbox"/> Cambridge 2" 202NL-H7H7 <input type="checkbox"/> Ford B44-444-Q-NL <input type="checkbox"/> Ford B44-777-Q-NL <input type="checkbox"/> Jones E-1949SG <input type="checkbox"/> A.Y. McDonald 76100Q <input type="checkbox"/> Mueller B-25209-N	

POTABLE AND RECYCLED WATER FACILITIES

ITEM	DESCRIPTION	MANUFACTURER/PRODUCT (Select One)	COMMENTS
VALVE, BALL WITH LOCKING TABS	50 mm (2") Bronze, Straight, Compression x Compression with Locking Tabs and Brass Handle.	<input type="checkbox"/> Cambridge 212NL-H7H7H <input type="checkbox"/> Ford B44-777-QW-NL <input type="checkbox"/> Jones E-1949SGW <input type="checkbox"/> A.Y. McDonald 76100WQ <input type="checkbox"/> Mueller B-25146-N	
VALVE, BALL WITH LOCKING TABS	For Use With 4" & 6" Blow Off Installations With Reducing Companion Flange 50 mm (2") Bronze, Straight, MIP x FIP with Locking Tabs and Brass Handle.	<input type="checkbox"/> A.Y. McDonald 76107W & SHDLB <input type="checkbox"/> Ford B81-777W-NL W/HB-67S	
VALVE, BALL WITH LOCKING TABS	19 mm (¾") and 25 mm (1") Bronze, Straight, FIP x Meter Swivel with Locking Tabs and Purple Handle.	<input type="checkbox"/> Cambridge ¾" 212NL-F3T3H <input type="checkbox"/> Cambridge 1" 212NL-F4F4H <input type="checkbox"/> Ford B13-332W-NL <input type="checkbox"/> Jones E-1908W <input type="checkbox"/> A.Y. McDonald 76100M <input type="checkbox"/> Mueller B-24351-1-N	
VALVE, BALL, 1.03 MPa (150 psi)	6 mm (¼") through 50 mm (2"), FIP Threads with Handle.	<input type="checkbox"/> Apollo 70-100 Series <input type="checkbox"/> Nibco 560 Series <input type="checkbox"/> Stockham S-214 <input type="checkbox"/> Watts WBV-3 <input type="checkbox"/> Watts WEBS-3	
VALVE, BALL, 1.03 MPa (150 psi)	100 mm (4") and Larger, Rubber Seated, AWWA C507. Thermosetting or Fusion Bonded Epoxy Coated. Full Submittal Required.	<input type="checkbox"/> Pratt	
VALVE BOX LID & CAN ASSEMBLY	For use on 50 mm (2") Below Ground Manual Air Valve (WA-07) & 50 mm (2") Blowoff in Can (WB-06).	<input type="checkbox"/> South Bay Foundry SBF 1243	
VALVE, BUTTERFLY 1.03 MPa (150 psi)	100 mm (4") through 300 mm (12"), AWWA C504, Class 150B with Ductile-Iron Body. Class D or E Flange x Flange Ends. Full Submittal Required.	<input type="checkbox"/> Crispin K-Flo 500 <input type="checkbox"/> Dezurik AWWA <input type="checkbox"/> M & H 4500 <input type="checkbox"/> Mueller Lineseal III <input type="checkbox"/> Pratt Groundhog <input type="checkbox"/> Val-Matic Series 2000	
VALVE, BUTTERFLY 1.03 MPa (150 psi)	350 mm (14") and Larger, AWWA C504, Class 150B with Ductile-Iron Body. Class D or E Flange x Flange Ends. Full Submittal Required.	<input type="checkbox"/> Crispin K-Flo 500 <input type="checkbox"/> Crispin K-Flo 47 (24" & larger) <input type="checkbox"/> Dezurik AWWA <input type="checkbox"/> M & H 1450 <input type="checkbox"/> M & H 4500 <input type="checkbox"/> Mueller Lineseal III <input type="checkbox"/> Pratt Groundhog <input type="checkbox"/> Val-Matic Series 2000	

POTABLE AND RECYCLED WATER FACILITIES

ITEM	DESCRIPTION	MANUFACTURER/PRODUCT (Select One)	COMMENTS
VALVE, BUTTERFLY 1.72 MPa (250 psi)	100 mm (4") through 300 mm (12"), AWWA C504, Class 250B with Ductile-Iron Body. Class F Flange x Flange Ends. Full Submittal Required.	<input type="checkbox"/> Crispin K-Flo 500 <input type="checkbox"/> Dezurik AWWA <input type="checkbox"/> M & H 1450 <input type="checkbox"/> M & H 4500 <input type="checkbox"/> Mueller Lineseal XP 250 <input type="checkbox"/> Pratt HP250 <input type="checkbox"/> Val-Matic Series 2000	
VALVE, BUTTERFLY 1.72 MPa (250 psi)	350 mm (14") and Larger, AWWA C504, Class 250B with Ductile-Iron Body. Class F Flange x Flange Ends. Full Submittal Required.	<input type="checkbox"/> Crispin K-Flo 500 <input type="checkbox"/> Crispin K-Flo 47 (24" & larger) <input type="checkbox"/> Dezurik BAW 250 <input type="checkbox"/> M & H 1450 <input type="checkbox"/> M & H 4500 <input type="checkbox"/> Mueller Lineseal XP 250 <input type="checkbox"/> Pratt HP250 <input type="checkbox"/> Val-Matic Series 2000	
VALVE, BUTTERFLY, WAFER 1.03 MPa (150 psi)	350 mm (14") and Larger. District Approval and Full Submittal Required.	<input type="checkbox"/> Pratt MKII	
VALVE, CHECK	1.03 & 2.07 MPa (150 & 300 psi), Slanting Disc Check Valve 100 mm (4") and Larger. Full Submittal Required.	<input type="checkbox"/> APCO Series 800 <input type="checkbox"/> Crispin TD Series <input type="checkbox"/> Val-Matic Series 9000	
VALVE, COMBINATION AIR RELEASE AND AIR/VACUUM, 50 mm (2")	Single Body Style Combination Air Release and Air/Vacuum Valve. Stainless Steel Internal Parts, BUNA-N seats per AWWA C512, and Epoxy Coated Interior per AWWA C550. N.P.T. Threaded Inlet and Outlet. Suction Screen Required, 2.04 MPa (300 psi) Rated Body and Internals. Full Submittal Required.	<input type="checkbox"/> APCO 145C <input type="checkbox"/> Cla-Val 33A <input type="checkbox"/> Crispin UL20 <input type="checkbox"/> Val-Matic 202C.2 <input type="checkbox"/> Vent-O-Mat RBX Series	
VALVE, COMBINATION AIR RELEASE AND AIR/VACUUM, 100 mm (4") AND LARGER	Single-Body Style Combination Air Release and Air/Vacuum Valve. Stainless Steel Internal Parts, BUNA-N seats per AWWA C512, with Protection Hood, Suction Screen Required, and Epoxy Coated Interior per AWWA C550. Flanged 125# or 250# Inlet. 2.04 MPa (300 psi) Rated Body and Internals. Full Submittal Required.	<input type="checkbox"/> APCO 150 Series <input type="checkbox"/> Cla-Val Series 35 <input type="checkbox"/> Crispin UL Series (for 100 mm (4") size) <input type="checkbox"/> Crispin C Series (for 150mm (6") and larger) <input type="checkbox"/> Val-Matic 200 Series <input type="checkbox"/> Vent-O-Mat RBX Series	

POTABLE AND RECYCLED WATER FACILITIES

ITEM	DESCRIPTION	MANUFACTURER/PRODUCT (Select One)	COMMENTS
VALVE, GATE, RESILIENT WEDGE (RWGV)	100 mm (4") Through 300 mm (12"), Non-Rising Low Zinc Bronze or Stainless Steel Stem, Ductile-Iron Body and Bonnet, Stainless Steel Trim Bolts, Encapsulated Wedge per AWWA C509 or C515 with 8-mil or greater Epoxy Coated Interior. Manufactured to AWWA C509 or C515, with 1.72 MPa (250 psi) Rating.	<input type="checkbox"/> American Flow Control Series 2500 <input type="checkbox"/> AVK Series 45 <input type="checkbox"/> AVK Series 65 <input type="checkbox"/> Clow Model 2639 SeriesF-6100 <input type="checkbox"/> Kennedy KSRW-8000Series <input type="checkbox"/> Mueller A2361 & A2362 Series <input type="checkbox"/> M & H 4067 Series <input type="checkbox"/> M & H 7000 Series	
VALVE, GATE, RESILIENT WEDGE, 350 mm (14") AND LARGER	350 mm (14") Through 600 mm (24"), per AWWA C509 or C515, Ductile Iron Body, Stainless Steel Trim Bolts, Encapsulated Wedge, Non-Rising Stem, 8-mil or greater Epoxy Coated Interior per AWWA C550, Minimum 1.36 MPa (200 psi) Rating. District Approval and Full Submittal Required.	<input type="checkbox"/> American Flow Control Series 2500 <input type="checkbox"/> AVK Series 55 <input type="checkbox"/> Clow Model 2638 SeriesF-6100 <input type="checkbox"/> Kennedy KSRW-7000 Series <input type="checkbox"/> M & H 7000 Series <input type="checkbox"/> Mueller A2361 Series	
VALVE, INSULATED BALL	25 mm (1") Bronze, Straight, Compression x Compression, Insulated Type.	<input type="checkbox"/> Mueller N-35209-N	
VALVE, PET COCK	6 mm (1/4") 304 SS Pet Cock Valve for Use on Blowoff Cam and Groove Adapter. Full Submittal Required.		
VALVE, PRESSURE REDUCING	For Water Main Pressure Reducing, 100 mm (4") through 400 mm (16"). Full Submittal Required.	<input type="checkbox"/> Ames 910/610 Series <input type="checkbox"/> Cla-Val 90G-01 <input type="checkbox"/> Singer 106 PR <input type="checkbox"/> Singer 206 PR <input type="checkbox"/> Watts ACV 115F Series	
VALVE, PRESSURE REDUCING, FOR FIRE SYSTEMS	For Water Main Pressure Reducing, 100 mm (4") through 400 mm (16"). Full Submittal Required. UL Listing Required for Fire Protection Systems.	<input type="checkbox"/> Cla-Val 90A-21 <input type="checkbox"/> Watts M1115F	
VALVE, PRESSURE REGULATING 1.03 MPa to 1.72 MPa (150 TO 249 psi)	19 mm (3/4") through 50 mm (2").	<input type="checkbox"/> Cash Acme E55 <input type="checkbox"/> Watts 223, 25AUB <input type="checkbox"/> Wilkins 600 Series	
VALVE, PRESSURE REGULATING 1.72 MPa to 2.74 MPa (250 TO 400 psi)	19 mm (3/4") through 50 mm (2").	<input type="checkbox"/> Cash Acme E55 <input type="checkbox"/> Watts N35B Series	
VALVE, PRESSURE RELIEF	For Service Connections, 19 mm (3/4").	<input type="checkbox"/> Cash Acme FWC	

POTABLE AND RECYCLED WATER FACILITIES

ITEM	DESCRIPTION	MANUFACTURER/PRODUCT (Select One)	COMMENTS
VALVE, PRESSURE RELIEF AND SUSTAINING	For Water Main Pressure Reducing and Sustaining, 100 mm (4") through 400 mm (16"). Full Submittal Required.	<input type="checkbox"/> Ames 920/620 Series <input type="checkbox"/> Cla-Val 50-01 <input type="checkbox"/> Cla-Val 650-01 <input type="checkbox"/> Flomatic C000SS/CA000SS <input type="checkbox"/> Singer 106 RPS <input type="checkbox"/> Singer 206 RPS <input type="checkbox"/> Watts ACV 116E Series	
VAULT ACCESS DOOR, ALUMINUM	Aluminum Vault Access Door, Dual Door Configuration, Spring Loaded and Counter Balanced, with Inset for Padlock. H-10 Parkway or H-20 Street Loading Required. Full Submittal Required.	<input type="checkbox"/> Bilco Type JD-AL <input type="checkbox"/> Lasco Lids LP & LH Series <input type="checkbox"/> USF Fabrication THS, THD <input type="checkbox"/> Watkins Metal Fabrication	
VAULT DAMP-PROOFING	Coating System used on the Exterior Surface of Vaults & Manholes at and below Water Table.	<input type="checkbox"/> Carboline 50WB	
VAULT EXHAUST FAN	Electric, 110 Volt, Single Phase, Squirrel Cage Type, Suitable for Wet Locations. Size for 6 Volume Changes per Hour. Full Submittal Required.		
VAULT GROUND FAULT RECEPTACLE	125 Volt, 20 Ampere, Duplex, with Gasketed, Self-Closing Aluminum Cover. Full Submittal Required.		
VAULT LADDER EXTENSION	Vault Ladder Extension, Retractable, 1,200 mm (48") Extension. Full Submittal Required.	<input type="checkbox"/> Bilco Ladder-Up <input type="checkbox"/> Pipeline Products VL-100	
VAULT LADDER, ALUMINUM	High Strength 6061-T6 Aluminum Alloy, 25 mm (1") Diameter Solid Rungs and 450 mm (18") Between Side Rails. Ladder to Exceed Requirements of CAL/OSHA Standards.	<input type="checkbox"/> Alaco Model 560	
VAULT LADDER, FIBERGLASS	Fiberglass Reinforced Plastic, 25 mm (1") Solid Square Rungs with Grit Safety Surface, Ultraviolet Inhibitors. 42 kPa (30,000 psi) Tensile Strength with a 3 to 1 Safety Factor per OSHA Requirements. Full Submittal Required.		
VAULT LIGHT SWITCH	120 Volt, 20 Ampere, Single Pole, Spring Loaded with Clear Waterproof Cover. Full Submittal Required.		
VAULT LIGHTS	Non-Metallic Incandescent Vaportite, 120 Volt, 6.0 Ampere, Wall or Ceiling Mounted, with 100 Watt Bulb with Cage and Glass Protector for Bulb. Suitable for Wet Locations. Two Light Fixtures Per Vault. Full Submittal Required.		

POTABLE AND RECYCLED WATER FACILITIES

ITEM	DESCRIPTION	MANUFACTURER/PRODUCT (Select One)	COMMENTS
VAULT LOAD CENTER	125 Ampere, Double Pole, 1 Phase, 3 Wire, Solid Neutral 120/240 VAC with Plug-In GFI Breaker. Full Submittal Required.		
VAULT SUMP PUMP	Automatic Submersible, Minimum 1/2 HP, 115 Volt, 60 Hz, 1 Phase, Ball Bearing Motor with Thermal Overload Protection. Either bronze or Epoxy Coated Cast Iron Body. Full Submittal Required.		
VAULT, FIBERGLASS REINFORCED PLASTIC (FRP)	For Meter Sizes 75 mm (3") and Larger. 1.82 m Long x 1.2 m Wide x 1.5 m Deep (6' x 4' x 5'). FRP Construction, Minimum H-10 Parkway Loading with Reinforced Plastic Concrete or Aluminum Access Door. See Section 06620. Full Submittal Required.	<input type="checkbox"/> Armorcast A6001506AX60MT	
VAULT, PRECAST CONCRETE	For Pressure Reducing Stations, Reservoir Altitude Valves, etc. Various Sizes. Precast Base, Sections and Top with Aluminum Two Leaf Access Door. See Section 03462. Full Submittal Required.	<input type="checkbox"/> Jensen Precast <input type="checkbox"/> San Diego Precast <input type="checkbox"/> Oldcastle <input type="checkbox"/> Manhole Builder, Inc.	
WATER TEST STATION ENCLOSURE	12 Gauge Steel, 200 mm (8") x 1,200 mm (48"), Single Lockable Door, Powder Polyester Coated. Potable Water Color: Chocolate Brown. Recycled Water Color: OSHA Safety Purple.	<input type="checkbox"/> Pipeline Products WTS-1200	
WIRE, CATHODIC	Stranded Copper, 600 Volt Rated Insulation, 2.08 mm (7/64") Thick High Molecular Weight Polyethylene (HMW/PE) Insulation Jacket. Use the Wire Sizes and Insulation Jacket Colors of Wire as Required in Section 13110 and on the Standard Drawings.		
WIRE, TRACER	#14 AWG Solid Copper UF Type Wire, with Cross Linked Polyethylene Insulation. White or Yellow in Color.	<input type="checkbox"/> Baron <input type="checkbox"/> Cosberg Industries <input type="checkbox"/> Paige <input type="checkbox"/> Regency Wire <input type="checkbox"/> Tripac-CCS	
WIRE, TRACER CONNECTOR	Direct Bury Silicone-Filled Capsule Tube with Standard Wire Nut or Silicone-Filled Wire Nut Connectors for Tracer Wire Connections.	<input type="checkbox"/> 3M DBR-6 <input type="checkbox"/> King 4 <input type="checkbox"/> King 5 <input type="checkbox"/> King 6	