



2026

APPROVED MATERIALS AND PRODUCTS LIST



APPROVED MATERIALS AND PRODUCTS LIST – DELTA SUPPLEMENTARY SPECIFICATIONS

This Section identifies the City of Delta’s List of Approved Products and Materials, and applicable restrictions or specifications, which are to be read in conjunction with, and superseding, products specified within the MMCD Master Specifications. Any alternate products in this Section shall be approved by the City of Delta.

MMCD Section	Product	Approved Material/ Type	Approved Product / Manufacturer	Restrictions / Additional Specifications
26 42 13	CATHODIC PROTECTION			
2.5	Petrolatum Tape		<ul style="list-style-type: none"> • Denso • Trenton • Petro Wrap 	
2.10	Anodes	High-potential magnesium	<ul style="list-style-type: none"> • Thomco • Bren Technologies • Galaxy Plastics 	
32 93 01	PLANTING OF TREES, SHRUBS AND GROUND COVERS			
2.13	Tree Trunk Protector		Tree Guard Model AG 9-4	Use of alternate tree guards to be approved by Engineer.
2.14	Root Barrier		Deep Root	Use of alternate root barriers to be approved by Engineer.
33 11 01	WATERWORKS			
2.1.4	Joint Protection	Petrolatum tape	<ul style="list-style-type: none"> • Denso • Trenton • Petro Wrap 	Apply joint protection as per Fraser Health requirement.
2.2.1	Ductile Iron Pipe	Ductile Iron, Zinc-coated	<ul style="list-style-type: none"> • Canada Pipe • US Pipe • Kubota 	<p>AWWA C151, Pressure Class 350 for pipes 100mm to 300mm. Pipes larger than 350mm shall be as specified on Contract Drawings.</p> <p>Nitrile gasket required when hydrocarbons encountered in soil.</p> <p>Each pipe length shall have electrical conductivity strips attached, or copper wedges shall be used at each joint unless specific cathodic protection provisions are specified on Contract Drawings.</p>
2.2.2	Polyvinyl Chloride (PVC) Pressure Pipe	<ul style="list-style-type: none"> • PVC C900 • PVCO C909 	<ul style="list-style-type: none"> • IPEX • Westlake • JM Eagle 	<p>Permitted for 150mm – 300mm diameter. Shall be pigmented blue and shall be bell thickened.</p> <p>Nitrile gasket required when hydrocarbons encountered in soil.</p>

33 11 01	WATERWORKS			
2.2.3	High Density Polyethylene Pipe	HDPE	<ul style="list-style-type: none"> • KWH Sclairpipe • WL Plastics • High Performance 	Iron pipe size (IPS). Minimum DR 11 and for drilling purposes minimum DR 9. HDPE to AWWA C-906 pipe is permitted for water supply to Agricultural Lands only, and if diameter is 150mm or smaller.
2.2.4	Fittings	<ul style="list-style-type: none"> • Ductile Iron • Compact Ductile Iron 	<ul style="list-style-type: none"> • Terminal City • Sigma • Star 	Cast Iron fittings are not acceptable.
		<ul style="list-style-type: none"> • PVC injection-molded C907 100mm – 300mm dia. 	<ul style="list-style-type: none"> • IPEX • Westlake • JM Eagle • Galaxy Plastics 	PVC fittings for mainline water mains shall require restrainers that do not de-rate the pressure rating of the pipe material.
		<ul style="list-style-type: none"> • PVC fabricated fittings 150mm – 300mm dia. 	<ul style="list-style-type: none"> • IPEX • Westlake • Galaxy Plastics • Pro-line 	High Deflection coupling by Certain Tee. PVC DR18, C800, Class 150, 5° bend fitting is acceptable. Fabricated One-Piece C900 DR18 are permitted if they are thermal formed from one continuous piece of C900 DR14 pipe. Bends shall be CSA certified per CSA B137.3.
	Bolts and Nuts			Galvanized or stainless steel is required for all hardware.
	Tie Rods and Nuts	Anti-corrosion coatings of all fittings	<ul style="list-style-type: none"> • Coal Tar Mastic Polyguard CA-14 • Royston Roskote A-51 Mastic • Tapecoat Canada Inc. TC Mastic 	Tie rods shall be wrapped in petrolatum tape.
	Couplings and Flanged Coupling Adapters	Plain End	<ul style="list-style-type: none"> • Robar • Smith-Blair • Romac • EBAA • Ford • Mueller 	
		Restrained Flange Adapters	<ul style="list-style-type: none"> • Romac • Uni-Flange • EBAA • Ford • Robar • Smith-Blair 	

33 11 01	WATERWORKS			
		Joint Restraint Devices	<ul style="list-style-type: none"> • Uni-Flange • EBAA • Ford • Romac • Smith-Blair • Sigma 	All watermain joints to be restraint. Joint restraints shall have pressure rating equal to the mainline pipe and are to have a fusion epoxy coating.
		Tapping Sleeve Models	<ul style="list-style-type: none"> • Robar • Romac • Smith-Blair 	
		Repair Clamps	<ul style="list-style-type: none"> • Robar • Romac • Mueller • Clow 	Couplers shall have appropriate adaptor gaskets to suit OD of pipe material(s) being coupled. Type 304 Grade A stainless steel required for all hardware.
	Joint Restraint Pipe System (seismic and landslide area)	Earthquake Resistant Ductile Iron Mains, or Welded Steel	Welded Steel	Other equivalent joint restraint mechanism or pipe material may be approved by the <i>Engineer</i> .
	Joint Restraint Pipe Systems (non-seismic and landslide area)	Ductile Iron Mains, or Welded Steel	<ul style="list-style-type: none"> • Uni-Flange Series • EBAA • TR Flex • Sigma • Smith-Blair • Welded Steel 	Joint restraints shall have pressure rating equal to the mainline pipe.
		PVC / PVCO Mains	<ul style="list-style-type: none"> • EBAA • Uni-Flange • IPEX 	Restrains for PVC/PVCO shall be approved by pipe manufacturers.
2.2.7	Oriented Polyvinyl Chloride (PVCO) Pressure Pipe	PVCO C909	IPEX	Permitted for 150mm – 300mm diameter. Shall be pigmented blue and shall be bell thickened. Nitrile gasket is required when hydrocarbons encountered in soil.
2.3.1	Gate Valves	50mm – 250mm Resilient-seated	<ul style="list-style-type: none"> • Mueller • Clow • AVK • Terminal City 	All valves shall have epoxy coated ductile iron body to AWWA C 509.
		300mm Resilient-seated	<ul style="list-style-type: none"> • Mueller • Clow • AVK • Terminal City 	Ductile iron body to AWWA C 515. Valves >=300mm shall have brass or stainless steel stems.

33 11 01	WATERWORKS			
2.3.4	Blow-off Valves	General	<ul style="list-style-type: none"> • Mueller • Ford 	<p>Permanent blow-offs shall be as per Standard Drawing.</p> <p>Testing and Temporary blow-offs shall be to MMCD Drawing W8 complete with 50mm gate valve.</p> <p>Temporary valves for testing and flushing shall not be left exposed above grade.</p>
2.3.5	Air Valve		<ul style="list-style-type: none"> • Apco • Val-Matic • ARI • Vent-O-Mat • Crispin UL 101 	<p>Air valves shall have a Schedule 40 PVC or galvanized steel vent pipe.</p>
2.3.6	Water Valve Boxes		<ul style="list-style-type: none"> • Terminal City • Dobney • Westview • Trojan 	<p>Nelson Box will not be permitted.</p> <p>Circular Cast Iron (MR6 Style), 300mm length.</p> <p>Valve box riser pipe to be 150 mm diameter PVC DR 18 or better.</p> <p>Valve boxes to have concrete pad under box for support if other than MR6 Style.</p>
2.3.7	Service Valve Boxes	Curb Stop Box	<ul style="list-style-type: none"> • Clow • Dobney • Mueller • Trojan 	<p>150mm riser pipe with cast iron box.</p> <p>If in driveway, use concrete meter box c/w metal lid,</p>
2.5.1	Water Service Connections	PEX-a	<ul style="list-style-type: none"> • Municipex • Aquapure 	<p>AWWA C-901 c/w #10 tracer wire shall be attached to all services.</p> <p>PP not permitted.</p>
2.5.3	Service Saddles	Saddles for Ductile Iron Pipe	<ul style="list-style-type: none"> • Robar • Romac • Smith-Blair • Canada Pipe 	<p>Saddles for 19 to 50mm services to have bronze body to ASTM B62 or stainless steel to ANSI T304.</p> <p>Canada Pipe Style SC-2 stainless steel double bolt saddles with stainless steel fasteners tapped for iron pipe thread (I.P.T)</p>
		Saddles for PVC Pipe	<ul style="list-style-type: none"> • Robar • Romac • Smith-Blair • Mueller • Cambridge Brass • Canada Pipe 	<p>Canada Pipe Style SC-2 stainless steel double bolt saddles with stainless steel fasteners tapped for iron pipe thread (I.P.T)</p>

33 11 01		WATERWORKS		
2.6	Hydrants		<ul style="list-style-type: none"> Terminal City Canada Valve Clow Mueller 	Hydrants bonnets shall be painted as per the flow available.
2.7	Underground Service Line Valves and Fittings	Corporation Stop	<ul style="list-style-type: none"> Mueller Ford A.Y. McDonald Cambridge Brass 	
		Curb Stop	<ul style="list-style-type: none"> Mueller Ford A.Y. McDonald Cambridge Brass 	
2.10	Casing Spacers		<ul style="list-style-type: none"> Uni-Flange Raci 	Shall be fabricated cast iron or high-density polyethylene insulating spacers designed to center main in the carrier pipe.
2.11	Water Meter Chamber Boxes		<ul style="list-style-type: none"> Langley Concrete Armtec AE 	Refer to Standard Drawing DSD-W.11 for sizes
2.12	Water Meters		<ul style="list-style-type: none"> Neptune Sensus Mueller Kamstrup 	T-10: 50mm or smaller Mach 10: 19mm or larger
2.13	Water Meter Foil Insulation		AYR-Foil	A2A foil blanket
2.14	Water Meter Radios		Neptune	Model R900
33 30 01		SANITARY SEWERS		
2.1	Concrete Pipe	Non-reinforced and Reinforced Concrete	<ul style="list-style-type: none"> Langley Concrete Ocean Pipe Armtec AE Concrete 	Concrete sewers 200mm to 675mm requires prior approval from the Engineer. Sewers 750mm in diameter and larger shall have factory PVC/HDPE interior liner.
2.2	Plastic Pipe, Mainline Smooth Profile	PVC SDR 35	<ul style="list-style-type: none"> IPEX JM Eagle Westlake 	Maximum diameter of 750mm. Recycled PVC is not permitted. 100 mm dia. to 150 mm dia. DR28, 200 mm dia. to 750 mm dia. DR35.
2.2	High Density Polyethylene Pipe	HDPE smooth wall pipe with fusion welded joints	<ul style="list-style-type: none"> KWH Sclairpipe WL Plastics High Performance 	Only to be used at location approved by the City. Shall be DR 17 or thicker.

33 30 01		SANITARY SEWERS		
2.3	Service Connections	PVC SDR 28	<ul style="list-style-type: none"> IPEX JM Eagle Westlake 	Minimum size shall be 100mm.
	Tees and Wyes	PVC SDR 28 Insertable Tee	<ul style="list-style-type: none"> IPEX Westlake JM Eagle ADS 	Insertable tee only permitted for connections to PVC and concrete mains which are 200mm mains or larger. Connections to 150mm diameter mains, AC and VIT mains, require manufactured wye.
		Saddle	<ul style="list-style-type: none"> Robar Romac 	Applicable for connections to AC and VIT mainlines. Stainless steel straps required.
	Inspection Chamber	Inspection Chamber	<ul style="list-style-type: none"> Pro-Line Galaxy Plastics Westlake 	IC to have locking lid c/w gasket.
		MR Style Concrete Pull Box	<ul style="list-style-type: none"> Dobney Langley Concrete AE 	#37 box size Shall be used in all travelled areas. Cast iron lid permanently marked "Sanitary", as required.
		Inspection Chamber Backflow Check Valve	<ul style="list-style-type: none"> Pro-line Galaxy Plastics 	Comply with CSA/CAN3 B70-M86.
33 34 01		SEWAGE FORCE MAINS		
2.2.1	Ductile Iron Pipe	General		Not permitted for sewage forcemains.
2.2.2	PVC Pressure Pipe	<ul style="list-style-type: none"> PVC C900 PVCO C909 	<ul style="list-style-type: none"> IPEX Westlake JM Eagle 	Permitted for 150mm – 300mm diameter, DR18 or thicker. Shall be pigmented white, and shall be bell thickened to ASTM D3139 Clause 6.2. Not permitted on Arterial Roads, nor are they permitted in areas subject to soil liquefaction in seismic events.
2.2.4	High Density Polyethylene Pipe	HDPE DR 17 (or thicker)	<ul style="list-style-type: none"> KWH Sclairpipe WL Plastics High Performance 	HDPE comply with AWWA C906 for pipe 100mm diameter and larger. Outside diameter (OD) to ductile iron pipe size (DIPS) dimensions.
2.2.5	Fittings	Saddle	Corix	Electrofusion Saddle Service for HDPE. Compact ductile iron fittings to AWWA C153 suitable for pressure rating 2415 kPa will not be permitted.

33 34 01	SEWAGE FORCE MAINS			
2.2.8	Low-pressure Sewage Force mains	HDPE DR 11 (or thicker)	<ul style="list-style-type: none"> • KWH Sclairpipe • WL Plastics • High Performance 	HDPE comply with AWWA C901 for pipes 75mm diameter and smaller and AWWA C906 for pipe 100mm diameter and larger. Outside diameter (OD) to ductile iron pipe size (DIPS) dimensions.
		<ul style="list-style-type: none"> • PVC C900 • PVCO C909 	<ul style="list-style-type: none"> • IPEX • Westlake 	<p>Permitted for 150mm – 300mm diameter, DR18 or thicker. Shall be pigmented white, and shall be bell thickened to ASTM D3139 Clause 6.2.</p> <p>Not permitted on Arterial Roads, nor in areas subject to soil liquefaction in seismic events.</p>
2.3.4	Air Valves		<ul style="list-style-type: none"> • Apco • ARI • Val-Matic 	25mm valves to be brass.
2.3.6	Plug Valves		<ul style="list-style-type: none"> • Apco • Val-Matic • Pratt • Clow 	All Plug Valves to be 100% Full Port.
2.3.7	Ball Valves		Unified Alloys	<p>All Ball Valves to be 100% Full Port.</p> <p>Plastic check valves not permitted unless approved by Engineer.</p> <p>50mm and smaller to be brass, larger to be stainless steel and flanged.</p>
2.3.8	Check Valves	Ball Check – Cast/Ductile Iron	<ul style="list-style-type: none"> • Apco • Val-Matic • Pratt 	Plastic check valves not permitted unless approved by Engineer.
2.5	Low Pressure Sewage Pumps	Non-clogging Pumps submersible pumps	Flygt / Xylem	
33 40 01	STORM SEWERS			
2.1	Concrete Pipe	Non-reinforced and Reinforced Concrete	<ul style="list-style-type: none"> • Langley Concrete • Heidelberg Materials Canada Ltd. – Formerly Ocean Pipe • Armtec • AE Concrete 	
2.2	PVC Pipe, Mainline Smooth Wall	PVC SDR 35	<ul style="list-style-type: none"> • IPEX • Westlake • JM Eagle 	<p>Maximum diameter of 750mm.</p> <p>Recycled PVC is not permitted.</p> <p>100 mm dia. to 150 mm dia. DR28, 200 mm dia. to 750 mm dia. DR35.</p>

33 40 01	STORM SEWERS			
2.3	PVC Pipe, Mainline Profile		<ul style="list-style-type: none"> • IPEX • Westlake • JM Eagle 	Maximum diameter of 750mm. Recycled PVC is not permitted. 100 mm dia. to 150 mm dia. DR28, 200 mm dia. to 750 mm dia. DR35. Spiral ribbed pipe is not permitted.
2.4	HDPE Pipe, Mainline Open Profile	HDPE smooth wall pipe with fusion welded joints	<ul style="list-style-type: none"> • KWH Sclairpipe • WL Plastics • High Performance • Armtec 	Spiral ribbed pipe is not permitted. Shall be DR 21 or thicker.
2.5	Spiral Rib Steel Pipe			Not permitted
2.6	Service Connections	PVC-SDR 28	<ul style="list-style-type: none"> • IPEX • Westlake • JM Eagle 	Minimum size shall be 100mm.
	Tees and Wyes	PVC-SDR 28	<ul style="list-style-type: none"> • IPEX • Westlake • JM Eagle 	Manufactured wye fitting shall be used for all connections on new mains.
33 40 01	STORM SEWERS			
		Inserta Tee	Inserta Tee	Insertable tee only permitted for connections to PVC and concrete mains which are 200mm mains or larger. Connections to 150mm diameter mains, AC and VIT mains, require manufactured wye.
		Saddle	<ul style="list-style-type: none"> • Robar • Romac 	Applicable for connections to AC and VIT mains. Stainless steel straps required.
	Inspection Chamber	Inspection Chamber	<ul style="list-style-type: none"> • Pro-Line • Galaxy Plastics 	IC to have locking lid c/w gasket.
		MR Style Concrete Pull Box	<ul style="list-style-type: none"> • Dobney • #37 Box 	Shall be used in all travelled areas. Cast iron lid permanently marked "Storm", as required.
		Inspection Chamber Backflow Check Valve	<ul style="list-style-type: none"> • Pro-line • Galaxy Plastics 	Comply with CSA/CAN3 B70-M86.
2.11	Polypropylene Pipe, Mainline Open Profile	SaniTite HP Weholite	<ul style="list-style-type: none"> • ADS • Uponor 	Service connections on new Open Profile HDPE / Polypropylene mains shall be injection molded PVC manufactured wyes for mains < 300mm.

33 40 01	STORM SEWERS			
2.12	Oil Grit Separator	Stormceptor CDS Jellyfish filter		
33 42 13	PIPE CULVERTS			
2.2	Concrete Pipe / Box Culvert	Non-Reinforced and Reinforced Concrete	<ul style="list-style-type: none"> Langley Concrete Heidelberg Materials Canada Ltd. – Formerly Ocean Pipe AE concrete Armtec 	
2.3	PVC Pipe, Mainline Smooth Wall	PVC SDR 35	<ul style="list-style-type: none"> IPEX Westlake 	Maximum up to 600mm.
2.4	PVC Pipe Profile, Mainline		<ul style="list-style-type: none"> IPEX Westlake 	Only permitted up to 675mm in diameter. Spiral ribbed pipe is not permitted.
2.5	HDPE Plastic Pipe, Open Profile		<ul style="list-style-type: none"> ADS Uponor 	Certified to CSA B182.8-02 Requires prior approval from the Engineer.
2.9	Polypropylene Open Profile		ADS	
33 44 01	MANHOLES AND CATCH BASINS			
2.1	Precast Manhole sections	Manhole Base and Riser	<ul style="list-style-type: none"> Langley Concrete Ocean Pipe AE concrete Armtec 	
2.1.7	Manhole Frames and Covers	Type 1 and 2 Height Adjustable Cast Iron Style	<ul style="list-style-type: none"> Dobney Star Terminal City 	
		Low-profile Frame and Covers	<ul style="list-style-type: none"> Dobney Terminal City 	Use of 100mm low profile frames and covers to be approved by the Engineer.
2.1.13	Catch Basin and related castings	CB Frame	<ul style="list-style-type: none"> Dobney Westview Trojan 	Refer to Standard Drawings for required lettering on Manhole Covers for sanitary and storm sewers, including in fish habitat areas. Shall be compatible and interchangeable with existing City castings.

33 44 01	MANHOLES AND CATCH BASINS			
		CB Grate	<ul style="list-style-type: none"> • Dobney • Westview 	Refer to Standard Drawings for required lettering on CB Grates, including in fish habitat areas.
2.1.16	Tapered Adjusting Rings	Concrete <ul style="list-style-type: none"> • EPP • HDPE 	<ul style="list-style-type: none"> • IPEX • Dobney • ARPRO 	
34 41 13	TRAFFIC SIGNALS			
2.5	Concrete Junction Boxes		A.E. Concrete	MoTI labelled "ELEC"
2.6	Poles and Anchor Bolts	Poles, Arms, Service Base	<ul style="list-style-type: none"> • Nova Pole • West Coast Engineering • Polecom Structures 	M.O.T.I./MMCD Galvanized and powder coated
2.7	Conductors and Cables	Detector Cable	<ul style="list-style-type: none"> • Texcan 	IMSA SPEC 50-2 2 Conductor, No. 16 stranded
2.16	Traffic and Pedestrian Signals	Signal/ Pedestrian Heads	<ul style="list-style-type: none"> • Econolite • Interprovincial 	MoTI Yellow Poly
2.17	LED Signal Modules	LED Vehicle Display	Dialight	M.O.T.I Current ITE Specifications
2.19	Signal Mounting Hardware	Overhead adjustable bracket	Pelco	Astro-brac
		Side mount brackets	Greenlite Traffic	MoTI
2.21	Pedestrian / Cyclist Push Buttons		Polara	iNS/iDS Accessible Push Button (for traffic signals) iNX Accessible Push Button (for pedestrian-activated crosswalks)
2.24	Traffic Signal Controller and Cabinet		Econolite	Cobalt Controller P44 cabinet
34 41 13	TRAFFIC SIGNALS			
2.28	Uninterrupted Power Supply and Cabinet	UPS	Interprovincial	Alpha S6 / Valid Manufacturing
	Opticom Detector		Trafco	721 Detector with Multi-Mode Phase Selector c/w 3M Opticom Cable