

**SUBDIVISION SERVICING BYLAW APPROVED PRODUCTS LIST**  
**Administrative Procedure No. 23/18**

PURPOSE:

To ensure that quality materials are used in the construction of City infrastructure and to ensure that standard equipment is installed for ease of maintenance and to keep the supply of needed replacement/repair parts to a minimum.

PROCEDURE:

		Item Description	Approved Product	Standard	Comments/ Restrictions
<b>1. Waterworks</b>					
1.1 Pipe	1.1.1	Polyvinyl Chloride Pipe	Ipex Northern Pipe Products Royal Group	CSA B137.3 AWWA C900 DR25, 18 and 14 AWWA C905 DR51, 41, 32.5, 25, 21 and 18	C900 Sizes 100 – 300 mm C905 Sizes 350 – 1200 mm
1.2 Fittings	1.2.1	Cast Iron Fittings	McAvity Terminal City Canada Pipe Star Pipe Products Union Foundry Co.	ASTM C110-82 ASTM B16.1-1975 Epoxy to ANSI/AWWA C116/A21.16.03 Exterior Epoxy Coating to ANSI/AWWA C116/A21.16.03	North American Controlled Manufactured MJ/TJ Bell 100 – 600 mm MJ Bell 750 mm 17 pound magnesium anodes
	1.2.2	Ductile Iron Fittings	Terminal City Union Foundry Co. Canada Pipe Star Pipe Products Sigma Corp.	ASTM C153-84 ASTM B16.1-1975 Epoxy to ANSI/AWWA C116/A21.16.03 Exterior Epoxy Coating to ANSI/AWWA C116/A21.16.03	North American Controlled Manufactured MJ/TJ Bell 100 – 600 mm MJ Bell 750 mm 17 pound magnesium anodes
	1.2.3	PVC Extruded Fittings	Ipex Inc. Galaxy Plastics LTD.	CSA B137.2 and B137.3 AWWA C907 (100-300 mm)	Bends must be Long Radius Type

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1.3 Couplings	1.3.1	Couplings	Robar Hymax		Epoxy coated Type 304 SS Bolts 17 pound magnesium anodes
	1.3.2	Adapter Flanges	Uni-Flange Clow	ANSI B16.1 125lb/ANSI D16.5 150lb	Epoxy coated Type 304 SS Bolts 17 pound magnesium anodes
1.4 Restraining Devices			Uni-Flange (series 1500 not permitted) EBAA (series 2000SV, 2000PV, 2200 not permitted)	ASTM A536 Grade 65-45-12 ANSI/AWWA C111/A21.11 ANSI/AWWA C153/A21.53	Epoxy coated Type 304 SS Bolts
1.5 Tapping Sleeves			Robar Terminal City Hymax	Stainless Steel or Epoxy to ANSI/AWWA C116/A21.16.03 Exterior Epoxy Coating to ANSI/AWWA C116/A21.16.03	
1.6 Fire Hydrants			Terminal City Canada Valve Clow Canada	AWWA C502	Painted Yellow (Hydrant) Compression Type 2.75 m Minimum Bury 17 pound magnesium anodes Plug Drain holes No stainless steel bolts
1.7 50 mm Standpipes			Terminal City Clow Canada Mueller		Compression Type 2.75 m Minimum Bury 17 pound magnesium anodes
1.8 Valves	1.8.1	Mainline Gate Valves	Clow Canada Terminal City Mueller	AWWA C509 Interior to AWWA C550 Exterior - Electrostatically Applied Fusion Bonded Epoxy Coated	Resilient Seat Sizes 100 – 350 mm 17 pound magnesium anodes

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	1.8.2	Nelson Type Valve Boxes	Terminal City Iron Works Star Pipe Products Dobney		Terminal City Nelson Type C900 Pipe Riser Boulevard and landscaped areas only.
	1.8.3	Adjustable Valve Box	Mueller		5 – 1/4:” valve box and lid In asphalt surface only.
1.9 Water Service	1.9.1	Water Service Pipe 25 mm	Noranda Wolverine Hai Liang Great Lakes Copper	ANSI H23.1 ASTM B88 AD WWT-799 ASTM F1281 CSA 137.1 AWWA C901	Type K Soft Copper
	1.9.2	Water Service Pipe 50 mm	Polytubes - Series 200 Ipex – Gold901	Can/CSA B137.1	200 PSI HDPE Copper Tube Size
	1.9.2	Compression Coupling	Mueller Cambridge	AWWA C907 CSA B137.2 AND B137.3	Compression to compression
	1.9.3	Water Service Saddles	Robar Mueller	2706 CD2 or SC2	Double Strap Stainless Steel CC Thread Brass Epoxy Coated
	1.9.4	Corporation Stops	Mueller Cambridge		Sizes 19 – 50 mm CC Thread and Compression
	1.9.5	Curb Stop Residential (Stop & Drain) Irrigation (Stop & Drain)	Mueller Cambridge		Sizes 10 – 50 mm Full Flow, Full Port Comp x Comp

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	1.9.6	Service Box	Mueller Trojan	CSB1 A726 and A728	2.75 m Bury Epoxy Stand pipe Epoxy Coated Boot Internal Rod 300 to 600 mm below surface

<b>2. Sewer</b>					
2.1 Storm Pipe	2.1.1	Concrete Pipe	Ocean Construction Langley Concrete Group Kon Kast	ASTM C14, C76 A443, C655	600 mm and Larger Type 50 Cement
	2.1.2	Polyvinyl Chloride Pipe	Ipex. Royal Group JM Manufacturing Northern Pipe	CSA B182.2 ASTM D2412 AD NQ3624-060	DR28 100 – 150 mm DR35 200 – 900 mm
	2.1.3	Ultra-Rib Kor Flo	Ipex Royal Group	CSA B182.4 ASTM F794	300 mm and Larger
	2.1.4	Perma-Loc Class 5 Kor Flo	Ipex Royal Group	CSA B182.4 ASTM F794	600 mm and Larger
	2.1.5	Corrugated High Density Polyethylene Pipe	Armtec – Boss 2000	ASTM D3350, CSA B182.8 ASTM D1248, F667	Bell and Spigot with Gaskets
	2.1.6	Corrugated Steel Pipe	Armtec (Culverts Only with the exception of round Ultra-flo which may be used as storm sewer) Spir-L-Ok (Culverts Only)	CSA CAN3-G401, M81	Minimum 2.0mm thickness Coating as per Canadian Durability Guideline for CSP - CSPI
	2.1.7	Steel Reinforced Poly- ethylene Pipe	Armtec – Boss 300 Contech – Duromax	CSA B182.14, CSA B182.15 ASTM 2562	900 mm and larger Soil tight or low head joints not approved

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	2.1.8	Large Diameter High Density Polyethylene Pipe	KWH – Weholite	ASTM F894	900 mm and larger Thermal fusion welded joints
2.2 Vaults		Pre-Cast Reinforced Concrete	Grosso Kemp A & E Kon Kast Langley Concrete Group		Precast Concrete Minimum 960 Opening H20/CS-600 Loading Type 50 Cement
2.3 Catchbasins	2.3.1	Barrels	Grosso Kon Kast Ocean Langley Concrete Group	ASTM C478	Pre-Cast Concrete 600mm Diameter 1500mm Deep H20/CS-600 Loading Type 50 Cement
	2.3.2	Complete Bases and Lids	Grosso Kemp Kon Kast Ocean Langley Concrete Group	ASTM 478	Pre-Cast Concrete 360 maximum 640 mm Opening H20/CS-600 Loading Type 50 Cement
	2.3.3	Lawn Basin	Langley Concrete Group Ocean Le-Ron Plastics Inc.		Dobney B22A grate Type 50 Cement
	2.3.4	Frame and Grate	Dobney Foundry Langley Concrete Group Norwood Foundry		Type 1 B23 Grate and 24 Frame LH or RH Type B18 Grate and 19 Frame LH or RH Grate to indicate that stormwater drains to fish habitat or stream

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2.4 Headwalls		Pre-Cast Concrete  Galvanized/Aluminized Steel	Grosso Kemp Kon Kast Langley Concrete Group J&J Drainage Products		Pre-Cast Concrete Type 50 Cement
2.5 Storm and Sanitary Manholes	2.5.1	Barrels-Storm	Grosso Kemp Kon Kast Ocean Langley Concrete Group	ASTM C478	Pre-Cast Concrete Minimum 1050 mm H20/CS-600 Loading Type 50 Cement
		Barrels-Sanitary	Ipex Grosso Kemp Kon Kast Ocean Langley Concrete Group	ASTM C478 (concrete)	PVC 1200 mm diameter Pre-Cast Concrete H20/CS-600 Loading Type 50 Cement Concrete barrels must have an approved riser wrap to reduce infiltration
		Riser wrap – Sanitary Manholes	Wrapid Seal Boa Tape RiserWrap		300 mm wide centered on joints
	2.5.2	Concrete Lid-Storm	Grosso Kemp Kon Kast Ocean	ASTM C478	Pre-Cast Concrete Minimum 1050 mm H20/CS-600 Loading Type 50 Cement

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	2.5.3	Pre-Cast Bases-Storm	Grosso Kemp Kon Kast Ocean Langley Concrete Group		Type 50 Cement
		Pre-Cast Bases-Sanitary	Ipex Kemp Langley Concrete Group Predl		Lined with HDPE Type 50 Cement
	2.5.4	Frame and Cover	Dobney Foundry Langley Concrete Group Norwood Foundry		C18 Frame and Cover C18D Frame and Cover H20/CS-600 Loading TF-39 Boulevard and landscaped areas only
	2.5.5	Adjustable Frame and Cover	Mueller Canada	ASTM A536	AJ633ESR In asphalt surfaces only
2.6 Sanitary Sewer Pipe	2.6.2	PVC Pipe	Ipex Northern Pipe Products Royal Group	CSA B182.2 ASTM D2412 and NQ3624-060	DR28 100 – 150 mm DR35 200 – 1050 mm
2.7 Services – Sanitary & Storm	2.7.1 - Sanitary	PVC Pipe	Ipex Northern Pipe Products Royal Group	CSA B182.2 ASTM B2412 AD NQ 3624-060	DR28 100 – 150 mm
	2.7.2 - Storm	PVC Pipe	Ipex Northern Pipe Products Royal Group	CSA B182.2 ASTM D2412 and NQ3624-060	DR28 100 – 150 mm DR35 150mm and up
	2.7.3	Service Wyes and Fittings	Ipex Le-Ron Plastics Inc. Galaxy Plastic Ltd	CSA B182.2 ASTM D3034, AD F1336	DR28/35 Bell and Spigot All new mainline construction

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	2.7.4	Saddles	Ipex Le-Ron Plastics Inc. Galaxy Plastics Ltd	CSA B182.2 ASTM D3034 ASTM F1336	Double Strap Wye Only on existing mains
2.8 Force mains	2.8.1	PVC Pipe & Fittings	Ipex Northern Pipe Products Royal Flex-Loc	CSA B137.3 AWWA C900 DR25, 18 and 14 AWWA C905 DR51, 41, 32.5, 25, 21 and 18	C900 Sizes 100 – 300 mm C905 Sizes 350 – 1200 mm
	2.8.2	High Density Polyethylene (HDPE) Pipe and Fittings	KWH Pipe Global Poly Systems Inc. Performance Pipe	AWWA C906	DR7.3 to DR32.5
	2.8.3	Valves	Clow Terminal City Mueller	Gate valves to AWWA C509	Resilient Seat Sizes 100 – 350 mm
	2.8.4	Services	See 1.9 Water Services		

<b>3. Street Lighting</b>					
	3.1	Roadway Lighting	NXT Series		NXT – 36S or larger on roadways
	3.2	Poles	Nova Pole West Coast Engineering Or approved equal	CAN/CSA S6-2006 ANS CSA 22.2 NO. 206	Hot dipped galvanized steel in accordance with SSPC-SP7
	3.3	Conduit	IPEX Or equivalent	CSA C 22.2 NO. 211.1	RPVC as per Canadian Electric Code
	3.4	Fittings	IPEX Or equivalent	CSA C22.2 NO. 85	RPVC as per Canadian Electric Code
	3.5	Junction Boxes	Nova Pole	Confirm to section 201 plastic junction boxes	Large size only



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	3.6	Service Panel	Valid Manufacturing	CSA type 3R rated	Model# BSD6A24CQ Marine grade aluminum. Powder coated grey. Wired to MMCD E 7.5 40/60 amp
	3.7	Service Base	Nova Pole West Coast Engineering		Hot dipped galvanized steel in accordance with SSPC-SP7
		Conductors		CSA C22.2 NO. 38	Single conductor 600V Stranded copper with RW90 polyethylene insulation. Colour coded per Canadian Electric Code.
		Conductor Connectors		Rated 105C as per Canadian Electric Code	Screw on type
		Fuse Holders	Tron	CSA 6225-01 UL IZLT2	5 amp fuse with 2 insulating boots
		Concrete Bases		As per MMCD drawing CE1.3	Pre-Cast Concrete Type C for 9m davit Type C1 for 8.1m davit on service base