

List of Approved Materials and Products

Alternates to the items in this list require the approval of the Mgr. Capital Projects & Inspections

		<i>Product</i>	<i>Manufacturer</i>	<i>Approved Model</i>	<i>Restrictions/Additional Specifications</i>
26 56 01	Roadway Lighting				
		Cobra Head Style Luminares	LED Roadway Lighting (LRL)	NXT Series	- LED 3000K - Local Roads (bus routes are 4000k) 4000k - Collector and Arterial Roads 7 pin PEC connector - Shorting cap - Field Adjustable Driver required for Cobra Head style fixtures (Or decorative fixtures where adjustable drivers come as an option) - Wattages per design 2 Tenon adaptors required for post top poles using Cobra Head Luminares – a) LRL Part# (FP-FTP-NXT-GY-06-LF) b) Valmont WCE Part# (WCE TEN-3.5-FIT-PC) RAL7035
			American Electrical Lighting (AEL)	Autobahn Series - ATB2 - ATBO	
		Decorative Roadway Luminares	Phillips Lumec	- TR20 - Capella - Domus - CAND 1 / CAND 2	
			Lumenpulse	Pure 100	
		Pathway / MUP Lighting	- Lumenpulse - LED Roadway Lighting (LRL) - Phillips Lumec	- Pure 100 - NXT-S series - TR20 - Capella - Domus - CAND 1 / CAND 2	- LED 4000K Confirm with City 7 pin PEC connector - Shorting cap - Wattages per design plans
		Photocell / Shorting Caps	- DTL (Dark to Light) - Intermatic	- DE 120 for 102V - DE 124 for 120/240V - DE 347 for 347V - DE 480 for 480V - P/N LED45652	
		Poly/Conc Junction Boxes	- CIF Composites Inc - Duralite	Sizes: 11 x 18 17 x 30 24 x 36	2 Sections max - Plastic Junction Boxes Will Not Be Accepted

September 2026

		<i>Product</i>	<i>Manufacturer</i>	<i>Approved Model</i>	<i>Restrictions/Additional Specifications</i>
					Round Junction Boxes will not be Accepted
		Concrete Junction Boxes	AE Concrete	- TYPE 66 = T266 - TYPE 37 = B937 - TYPE C = 5686	
		Poles / Arms	- Valmont West Coast Engineering - Nova Pole - Lumec		- Galvanized and Powder Coated. - As per Design Drawings or Local Neighborhood Design Guidelines
		Concrete Bases	- AE Concrete - Langley Concrete		Per MMCD / Refer to Supplementary Drawing SS-E7.3
		Service Bases	- Valmont West Coast Engineering - Nova Pole		- PER MMCD / Refer to Supplementary Drawing SS-E7.3 - Galvanized and Powder Coated - Robust Tab For Padlock
		Service / Electrical Panels	- West Coast Electric - Valid	Aluminum or Stainless Steel	- Refer to Supplementary Drawing SS-E7.3 and SS-E7.4 Surge Protection Device required for primary service. I_{max} 50, 20kA, 120/240V, 50/60Hz. Must be installed within panel.
		Conductor Tags	Panduit	MP250-C TAGS	On All Cables and individual conductors (Black Indelible Marker Pen)
		Individual Conductor	Texcan	RW90 Stranded Copper	Size and Color as per Plans
		Conduit	Various	CSA C22.2 No. 211.2	- RPVC - DBII will not be accepted
		Hydro Dip Service (RPVC Straps / Lag Bolts / Conduit Guard)	Various	MMCD	
		Fuse Holders (<u>Pole Hand Holes</u>)	Tron	Tron HEB-AA c/w 2 L-Type Insulating Boots	
		Fuse Holders (<u>Junction Boxes</u>)	- Ideal - Buchanan	65 KIT Water Proof	
		Fuses	- Bussman - Mersen	10-A KTK 10-A ATM	
		Receptacles	Leviton	Leviton	Or City Approved

		<i>Product</i>	<i>Manufacturer</i>	<i>Approved Model</i>	<i>Restrictions/Additional Specifications</i>
				Smartlock Pro Slim (WR) GFCI	Corrosion Resistant Alternate
		Cable Lubricant	• Ideal	• Poly Water Dyna-Blue • Poly Water Aqua-Gel II	
		Paint Color RAL Codes			• Coquitlam Green-RAL 6028 • Coquitlam Black-RAL 9005 • Mallardville Grey-RAL 7024
Irrigation System					
2.1	Irrigation Pipe – PVC			• CSA Series 160 >50mm • CSA Series 200 <50mm	Comply with CSA B137.3
	Irrigation Pipe - HDPE			• SDR 17 >50mm • SDR 11 <50mm	Comply with ASTM D-1248 as a Type III, Class C, Category 5, Grade P34 material and with ASTM D-3350 as a 345434C cell material.
2.2	Backflow Prevention Device		• Watts	• Model 007-QT	
2.3	Water Meter		• Sensus • Neptune	• Touch Read • Pro Read	See City Website for Water Meter Specifications
2.4	Water Meter Box		• Carson Series • AE Concrete	• 1419 • Model 5686	See City Website for Water Meter Specifications
2.5	Electronic Control Valves		• Toro		24 VAC Solenoid Actuated Globe Pattern
2.6	Master Valve		• Toro	• 220 Series	
2.7	Pressure Regulating Modules		• Rain Bird	• PRS-Dial	
2.8	Automatic Controllers		• Toro	• Sentinel Satellite Controller	
2.9	Control Wire	Wire	• Paige Wire	• P7079D	Common Wire to be 12-gauge Master Valve Wire to be 14-gauge
		Flow / pulse transmitter wiring	• Belden	• PE39	8mm Aluminum Polyester Shield Black HDPE Jacket

		<i>Product</i>	<i>Manufacturer</i>	<i>Approved Model</i>	<i>Restrictions/Additional Specifications</i>
		Wire splice	• 3M	• DBY connector	
32 91 21S	• Topsoil and Finish Grading				
2.5	<i>Growing Medium</i>		• Fraser Richmond Bio-Cycle • Premium Soils Ltd. • YardWorks • Denbow		
2.7	<i>Bark Mulch</i>		Answer Garden Products	• Nutri-Mulch	
2.9	<i>Misc. Products</i>	Root Barrier	Deep Root	• LB12-2	
		Adhesive	OSI Sealants	PL 200	
		Drain Mat	Nilex Geotextile	Nudrain WD/15	
		Filter Fabric	Nilex Geotextile	Nilex 4545	
2.9	<i>Structural Soil</i>	Soil	Answer Garden Products	Humus Builder	
		Structural Geotextile	Nilex Geotextile	Nilex 4553	
32 92 19S	<i>Hydraulic Seeding</i>				
2.2	<i>Seed Mix</i>	Perennial Rye		• Elka II • Gator 3 • Top Hat • Charismatic • All Star • Derby Supreme	
		Fescues		• Cindy • Longfellow II • Cindy Lou • Quatro • Shademaster II	
		Kentucky Bluegrass		• Shamrock • Boardway • Midnight • Julius • Allure	
3.5.3	<i>Fertilizer</i>			• Evergrow 28-3-8	
32 92 20	<i>Seeding</i>				
2.1.2	<i>Seed Mix</i>	Perennial Rye		• Elka II • Gator 3 • Top Hat • Charismatic • All Star • Derby Supreme	
		Fescues		• Cindy • Longfellow II • Cindy Lou	

September 2026

		<i>Product</i>	<i>Manufacturer</i>	<i>Approved Model</i>	<i>Restrictions/Additional Specifications</i>
				• Quatro • Shademaster II	
		Kentucky Bluegrass		• Shamrock • Boardway • Midnight • Julius • Allure	
32 93 01S	<i>Planting of Trees, Shrubs and Ground Covers</i>				
2.3		Fertilizer	• Agrico	• Evergro Tabs	
2.4		Mulch	• Yard Works • Eco-Soil • Fraser Richmond Bio-cycle		Composted
2.8		Guying Wire	• Tree Guy Systems	• Arrow Anchor	
2.11		Anti-desiccant	• GSI Horticultural	• Moisturin	
2.12		Flagging Tape		• Indenti-Tape	
2.13		Tree Trunk Protection	• Deep Roots Products	• Arborgard	
2.16		Tree Ties	• Deep Roots Products	• Arbor Tie	
33 11 01	<i>Waterworks</i>				
2.2.1	<i>Joint Protection</i>		• Denso • Chase Corp.	• Denso Petrolatum Tape • Longwrap Petrolatum Tape	Apply joint protection as per Fraser Health Requirement.
2.2.1	<i>Water Main Ductile Iron</i>	Ductile Iron	• McWane Group • US Pipe • Canada Pipe		CL 50 for all mains less than 400mm dia. and Pressure Class 350 for all mains 400mm dia or larger
2.2.1	<i>Water Main Ductile Iron</i>	Ductile Iron - Restrained	• Canada Pipe • US Pipe	• TR FLEX • HDSS	CL 50 for all mains less than 400mm dia. and Pressure Class 350 for all mains 400mm dia or larger
2.2.2	<i>Water Main PVC</i>	PVC (C900) PVCO (C909)	• Ipex Royal Pipe Systems • Ipex	• Blue Brute • Bionax	To AWWA C900 / C 905/ C 909 – 100 mm to 300 mm diameter DR18 min. Compliance with MMCD updated Section 33 11 01 2.2.2.2S for thickened bell and spigot pipe All PVC/PVCO mains shall

		<i>Product</i>	<i>Manufacturer</i>	<i>Approved Model</i>	<i>Restrictions/Additional Specifications</i>
					be pigmented blue. Nitro gasket shall be used when hydro carbon is encountered in surrounding soil. PVC/PVCO to be used only where shown on approved construction drawings.
2.2.3	Water Main HDPE	HDPE	• KWH Pipe • Performance Pipe	• Sclairpipe • DriscoPlex	HDPE to be used only where shown on approved construction drawings.
2.2.4.2/3	Water Main Fitting Ductile Iron	Ductile Iron Compact Ductile Iron	• Terminal City Iron Works • Norwood Foundry • Sigma Products • Star Pipe Products		AWWA C 153 & C110, cement mortar lined. All fittings to have a fusion epoxy coating. Corrsafe coating for Sigma Products. Cast iron fittings are not acceptable
2.2.10	Tie Rod, Bolts/Nuts				Type 304 Grade A stainless steel for all hardware
2.2.12	Couplings and Flange Coupling Adapters	Plain End Coupler	• Robar • Smith-Blair • Romac • Mueller • Ford • EBBA Iron	• Robar 1508 • Smith-Blair441 • Romac 501 • Mueller MRC • Ford FC1 • EBBA 3800	Type 304 Grade A stainless steel for all hardware All couplings and flange adapters are to have a fusion epoxy coating.
		Flanged Adapter	• Robar • Smith-Blair • Romac • Mueller • EBAA • Clow • Star Pipe Products	• Robar 7504/7506 • Smith-Blair912 • Romac FCG • Mueller • EBAA Iron 1000 • Clow Series 40, DI • Clow Series 90, PVC • Star Series 400	Type 304 Grade A stainless steel required for all hardware. All couplings and flange adapters are to have a fusion epoxy coating.

		<i>Product</i>	<i>Manufacturer</i>	<i>Approved Model</i>	<i>Restrictions/Additional Specifications</i>
			• Sigma Products	• Sigmaflange	
		Restrained Flange Adaptors	• Romac • Uniflange • EBAA • Star Pipe Products	• Romac RFCA • Uniflange RFAP • EBAA 2100 • Super Flange Series 7200	Type 304 Grade A stainless steel required for all hardware. All restrained flange adaptors are to have a fusion epoxy coating.
		Repair Clamps	• Canpac • Mueller • Robar • Clow • Romac • Cambridge Brass	• Canpac CR-2 • Mueller 510 • Robar 5626 • Clow 200 • Romac SS2 • Teck Series 425, 825, 1625	Repair clamps shall be stainless steel. Type 304 Grade A stainless steel required for all hardware.
2.2.13	<i>Joint Restraint Ductile Iron Mains</i>		• UniFlange Series 1400 • EBAA Iron • Clow • Star Pipe Products • Sigma Products	• UniFlange Series 1400 • EBAA Iron 1100 • Clow Tufgrip TDG • Split Stargrip Series 3100 • ONE-LOK	All joint restraints shall have a pressure rating equal to the mainline pipe. All joint restraints are to have a fusion epoxy coating. Type 304 Grade A stainless steel required for all hardware.
	<i>Joint Restraint PVC / PVCO Mains</i>		• UniFlange • EBAA Iron • Star Pipe Products • Sigma Products	• UniFlange Series 1300 • UniFlange Series 1500 • EBAA 1500 • EBAA 1900 • PVC Stargrip Series 4100 • PV-LOK	No wedge action type for PVC or PVCO pipes. Restraint systems for PVC or PVCO pipe shall be approved by the pipe manufacturer to not reduce the pipe recommended working pressure. All joint restraints are to have a fusion epoxy coating. Type 304 Grade A stainless steel required for all hardware.
	<i>Restrained Joint Pipe Systems (PVC)</i>		• Ipex • Royal	• Ipex Terrabrute • Royal Bulldog • Royal Cobra Lock	Restrained pipe joint systems to be approved prior to use.
	<i>Restrained Joint Pipe Systems (DI)</i>		• US Pipe	• Field Lok Gasket	Restrained pipe joint systems to be approved prior to use.

September 2026

		<i>Product</i>	<i>Manufacturer</i>	<i>Approved Model</i>	<i>Restrictions/Additional Specifications</i>
			McWane	SureStop Gasket	
2.3	Valves and Valve Boxes	50mm – 300mm Resilient-seated Mainline Gate Valve	- Mueller - Clow Canada - AVK - American Flow Control - Terminal City	- Mueller A2362 - Clow 2639 - AVK - AFC Series 2500 - IBBM	All valves shall have epoxy coated ductile iron body to AWWA C 509.
		375mm or greater Mainline Butterfly Valve	- Pratt - Mueller	- Pratt Groundhog - Mueller Lionseal	AWWA C 504 Class 150B
2.3.5	Air Valve		- Apco - Val-Matic - Pratt - Crispin	- APCO 140C - Val-Matic 201C - Pratt UL - Crispin UL	
2.3.6	Water Valve Box	Nelson Box, 450mm length 150mm riser pipe with circular box	- Terminal City - Dobney - Westview - Trojan		Cover shall be marked with "Water".
2.3.7	Curb Stop Box		- Terminal City - Dobney - Westview - Trojan		Per Supplementary Specification Dwg. COQ-W2b
2.5	Water Service Connection	Type K Copper – 19mm to 75mm			ASTM B88M
2.5.3.2	Saddles for Ductile Iron Mains		- Robar - Smith Blair - Mueller - Romac - Cambridge Brass	- Robar 2506 - Smith Blair 317 - Mueller DR2S - Romac 202NS - Teck Series 840X	Saddles required for service installation on all ductile iron mains. All saddles are to have a fusion epoxy coating. Type 304 Grade A stainless steel required for all hardware.
2.5.3.3	Saddles for PVC / PVCO Mains		- Canpac - Robar - Cambridge Brass - Mueller	- Canpac SC2 - Robar 2506 - Teck Series 840X - Mueller DR2S	Saddles required for service installation on all PVC / PVCO mains. All saddles are to have a fusion epoxy coating. Type 304 Grade A stainless steel required for

		<i>Product</i>	<i>Manufacturer</i>	<i>Approved Model</i>	<i>Restrictions/Additional Specifications</i>
					all hardware.
2.6	Hydrant		- Terminal City - Canada Valve - Clow Canada - Mueller	- TC C71P, TC-1, TC-20P "Century" - M93 Brigadier - Centurion	Must have Storz fitting on pumper port Refer to Supplementary Specifications for paint colors
2.7	Corporation Stop		- Cambridge - Ford - Mueller - AY-MacDonald	- Cambridge 311 - Ford B1000 - Mueller B2500800N - MacDonald 74700	Shall be full-port ball valve to 38 mm only. Shall be 300psi working pressure. Shall have large tee head. Use mainline gate valve for sizes >38 mm
2.7	Curb Stop		- Cambridge - Ford - Mueller - AY-MacDonald	- Cambridge 202 - Ford B44-343G - Mueller B25209 - MacDonald 76100	Shall be full-port ball valve to 50 mm with 90° turn stop. Use mainline gate valve for larger sizes > 50mm
33 30 01	Sanitary Sewers				
2.1	Concrete				Not allowed
2.2	PVC Pipe, Mainline Smooth Profile	PVC SDR35	- IPEX - Royal - JM Eagle		Sizes > than 600 mm to be approved by the Engineer
2.3	Sanitary Service Connection	PVC SDR28	- IPEX - Royal - JM Eagle		Minimum size shall be 100mm
	Inspection Chamber	Inspection Chamber	- Le-Ron - Pro-Line Fittings - Galaxy Plastics		IC's shall have locking lid with gasket
	Tees and Wyes	PVC SDR35	- IPEX - Royal - Galaxy Plastics - GPK Products		Manufactured wye fitting shall be used for all connections on new mains.
	Sewer Couplers PVC – Other Other – Other		- Rollee - Fernco	- Rollee - Fernco	Couplers (Shear band type) shall have appropriate adaptor gaskets to suit OD of pipe material being coupled

		<i>Product</i>	<i>Manufacturer</i>	<i>Approved Model</i>	<i>Restrictions/Additional Specifications</i>
	Sewer Couplers PVC – PVC		- Royal/Le-Ron - Pro-Line Fittings - Galaxy Plastics		To be gasketed push on type
33 34 01	<i>Sewage Force mains</i>				
2.2.4	<i>Low-pressure Sewage Force mains</i>	HDPE with fusion welded joints	- KWH - Performance Pipe	- Sclairpipe - DriscoPlex	AWWA C906
	<i>Service Connections</i>	Wyes and Tees			Manufactured fitting shall be used for all connections on new mains.
33 40 01	<i>Storm Sewers</i>				
2.1	<i>Concrete Pipe</i>	Non-reinforced and Reinforced Concrete	- Langley Concrete - Ocean Pipe		
2.2	<i>PVC Pipe, Mainline Smooth Wall</i>	PVC SDR35	- IPEX - Royal - JM Eagle		Sizes > than 600 mm to be approved by the Engineer.
2.3	<i>PP Pipe, Smooth Wall</i>		ADS (Advanced Drainage System)	Sanitite HP	Gravity Storm Sewer
2.4	<i>HDPE Pipe, Mainline Open Profile</i>		- Armtec - Hancor	- Armtec Boss 2000 - Hancor Blue Seal	Allowed on a case by case basis as approved by the Engineer.
2.6	<i>Service Connections</i>	PVC SDR28	- IPEX - Royal - JM Eagle		Minimum size shall be 150mm.
	<i>Tees and Wyes</i>	PVC SDR35	- IPEX - Royal - Galaxy Plastics - GPK Products		Manufactured wye fitting shall be used for all connections on new mains.
		Insertable Tee	Inserta Tee		Insertable tee only permitted for connections to existing PVC and Concrete mains which are 375mm mains or larger.
	<i>Inspection Chamber</i>	Inspection Chamber	- Le-Ron - Pro-Line Fittings - Galaxy Plastics		IC's shall have locking lid with gasket
33 44 01	<i>Manholes and Catchbasins</i>				
2.1	<i>Precast Manhole</i>	Manhole base and riser section	- Langley Concrete - Ocean Pipe		

		<i>Product</i>	<i>Manufacturer</i>	<i>Approved Model</i>	<i>Restrictions/Additional Specifications</i>
	Sections		Diamond Concrete		
2.1.7	Manhole Frames and Covers	Ductile Iron for Arterial Roads	- Westview Sales - Dobney	- TR 724 - C Series	Manhole frame shall be secured to the concrete manhole lid with 3 12 mm diameter redi-rods and appropriate Hilti anchors and nuts No cast or ductile iron adjusting grade rings permitted
2.1.7	Manhole Frame and Cover	Cast Iron per MMCD for Non-arterial Roads	- Dobney Foundry - Westview Sales Ltd.	- C Series - TR18	Refer to Supplementary Standard Drawing COQ-S16 for required lettering on Manhole Covers for sanitary and storm sewers, including in fish habitat areas. Shall be compatible and interchangeable with existing City of Coquitlam castings.
2.1.7	Low-profile Frame and Covers				Use of 100mm low profile frames and cover to be approved by the Engineer
	2.1.13 Catch Basin and Other Castings	CB Frame	- Dobney Foundry - Westview Sales Ltd.	- B24 - TR24	Top Inlet Catch Basin – MMCD Standard Drawing S11
		CB Grate	- Dobney Foundry - Westview Sales Ltd.	- B23 - TR23R&L	Top Inlet Catch Basin – MMCD Standard Drawing S11
		CB Frame – Side Inlet Assembly	- Dobney Foundry - Westview Sales Ltd.	- B39A - TR39A	Refer to Supplementary Standard Drawings COQ-S11A – Side Inlet Catch Basin Assembly
		CB Grate – Side Inlet Assembly	- Dobney Foundry - Westview Sales Ltd.	- B39 - TR39	Refer to Supplementary Standard Drawings COQ-S11A – Side Inlet Catch Basin Assembly
		Curb Inlet	- Dobney Foundry - Westview Sales Ltd.	- B24FTH - TR24C	
		Lawn Basin Grate (600mm Barrel)	- Dobney Foundry - Westview Sales Ltd.	- B22A - TR22	Lawn Drains – MMCD Standard Drawing S12

		Product	Manufacturer	Approved Model	Restrictions/Additional Specifications
		Lawn Basin Grate (300mm Barrel)	- Dobney Foundry - Westview Sales Ltd.	- D2A - TR12	Lawn Drains – MMCD Standard Drawing S12
03 30 20	Concrete Walks, Curbs and Gutter				
		Cast-in-Place Tactile panel	- Access Tile - Amor-Tile	- ACC-R-2x4 - ADA-C-2448	See Supplementary Drawing COQ-C9E
34 41 13	Traffic Signal				
		Polymer Concrete Junction Boxes	- CIF Composites Inc - Duralite	Sizes: 11 x 18 17 x 30 24 x 36	2 Sections max Plastic Junction Boxes Will Not Be Accepted Round Junction Boxes Will Not Be Accepted
		Concrete Junction Boxes/Vaults	AE Concrete	- SP635-1.3.3 (4040 Service Box) - Type 66=T266 - Type 37=B937 - Type C =5686	Refer to Supplementary Drawing SS-E2.5
		Poles / Arms	- Valmont West Coast Engineering - Nova Pole		Galvanized and Powder Coated (See Roadway Lighting Section for Paint Codes)
		Concrete Bases	- AE Concrete - Langley Concrete		For Concrete service bases refer to Supplemental Drawing SS-E7.3
		Service Bases	- Valmont West Coast Engineering - Nova Pole		Refer to Supplemental Drawings SS-E7.3 and SS-E7.4 Robust Tab for Padlock
		Service / Electrical Panels	- West Coast Electric - Valid	Aluminum or Stainless Steel.	Refer to Supplemental Drawing SS-E7.3 Surge Protection Device required for primary service. I _{max} 50, 20kA, 120/240V, 50/60Hz. Must be installed within panel.
		Vehicle Signal Heads	Econolite	Polycarbonate Yellow Body Colour	C/W Cowl Visors or as indicated on Contract Dwgs.
		Backboards	Econolite	Aluminum, Yellow Powder Coat	All Primary Vehicle Signal Heads Front Face with 3M Diamond Grade as indicated on Contract Drawings Optional for Secondary Signal, as indicated on contract drawings.
		Pedestrian &	Econolite		MoT Specifications

		Product	Manufacturer	Approved Model	Restrictions/Additional Specifications
		Countdown Signal Heads	Eagle		(Aluminum) 300mm Square c/w Aluminum Peak Visors - Color of Heads, Visors and Brackets to Match Pole
		Vehicle LED Signals	- Dialight - Duralite	Dialight P/N: - Red P/N: 433-1210-003XL15 - Yellow P/N: 433-3230-901XL15 - Green P/N: 433-2220-001XL15 15yr – 300mm TINTED LENS	300mm Round Color Tinted Lens. Clear lens required for bi-modal signal modules Dialight P/N: 4306370-001
		Pedestrian LED Signals	Dialight Top Section – Walk /Don't Walk Bottom Section – Countdown	Dialight P/N: - P/N: 430-6772-001X - P/N: 430-7773-001X	ITE Specifications 300mm Square
		Photocells / Shorting Caps			See Roadway Lighting Section
		Cobra Head Style Luminaires (LED)	- LED Roadway Lighting (LRL) - American Electrical Lighting (AEL)	- NXT Series - Autobahn Series - ATB2 - ATBO	- LED 4000k 7 pin PEC connector - Shorting cap - Wattages per design plans
		Advanced Accessible Pedestrian Station (AAPS)	Polara	- ICCU-S2 - IDS2 Ped Buttons - SDLC “Y” Cable Required	Supplied by City at Developer's expense.
		Audible Pedestrian Signals (APS)	Novax	DS102A-3W APS P/N: PLS001188	Enclosure to match pole colour
		Pedestrian or Cyclist Push Button	Polara	BDSP014-Y-CE0063	2 wire system
		PED Push Button Plate	Greenlite Traffic	GEL239 (R or L)	Black Symbol on White Background
		Cyclist Push Button Plate	Greenlite Traffic	GEL240 (R or L)	Black Symbol on White Background
		Cyclist / Ped Combo Sign Unit	Greenlite Traffic		Black Symbol on White Background

		Product	Manufacturer	Approved Model	Restrictions/Additional Specifications
		Signal Cable	• Texcan	• IMSA 7C, 12C, 19C & 25C No. 14 Stranded Copper	
		Signal Detector Loop Homerun Cable	• Texcan	• IMSA Spec. 50-2 2C No. 14 Stranded Copper	
		Individual Conductor	• Texcan	• RW90 Stranded Copper	Size and Color as per Plans
		Cable Lubricant	• IDEAL	• Poly Water Dyna-Blue • Poly Water Aqua-Gel II	
		Conduit	• Various	• CSA C22.2 NO. 211.2	RPVC
		Conductor Tags	• Panduit	• MP250-C Tags	On All Cables and individual conductors (Black Indelible Marker Pen)
		Fuse Holders (<u>Pole Hand Holes</u>)	• Tron	Tron Heb-AA c/w 2 L-type Insulating Boots	
		Fuse Holders (<u>Junction Boxes</u>)	• Ideal • Buchanan	• 65 KIT Water Proof	
		Fuses	• Bussman • Mersen	• 10-A KTK • 10-A ATM	
		Hydro Dip Service (RPVC Straps, Lag Bolts & Conduit Guard)	• Various	• MMCD	
		Overhead Adjustable Bracket	• Olson Aluminum Castings	• Sky-Bracket	C/W Stainless Steel Hardware
		Side Mount Brackets	• Greenlite Traffic	• GEL 189G	C/W Stainless Steel Hardware

		Product	Manufacturer	Approved Model	Restrictions/Additional Specifications
		Illuminated Street Name Signs	• Greentop Lighting • Image Signs	• Housing size 72" x 20" • Clear Lexan Panels • 3M 4090T – sheeting (translucent) • 3M ElectroCut 1175 blue film • 9" letter height (suffix 4") • Clearview font - 4W • Upper and lower case lettering	Mounting hardware: CANBRAC for vertical installation or PELCO for hanger assembly SE-5015-42-PNC
		RRFB – Rectangular Rapid Flashing Beacon	• Lanelight Traffic Technologies • Carmanah	• LL-RRFB-20201-MK- all variations • LL-RRFB-AC – all variations • MX Series	• Consult with representative for application advice • AC powered preferred. Confirm acceptance with City regarding 20W Solar or hybrid options. • Confirm Dual facing light bars • INX amber Polara Push buttons • Lanelight Connect Cloud Service compatibility required. • AC powered preferred. Confirm acceptance with City regarding solar or hybrid options. • For solar locations, a solar power report will be required to accurately determine the solar sizing – consult with local Carmanah representative for application advice • Confirm with City if INX or standard push buttons are required.

		Product	Manufacturer	Approved Model	Restrictions/Additional Specifications
		Illuminated Pedestrian Signs	• Greentop Lighting • Valid	• MMCD E5.15	• Optional 300mm yellow LED signals and enclosures, as indicated on contract drawings. • Provided with Signal mounting hardware.
		Traffic Controller	• Econolite	• Cobalt	Contact/confirm City staff regarding latest spec.
		Traffic Cabinet	• Econolite	• P44DD • MSX	Contact/confirm City staff regarding latest spec.
		Uninterruptable Power Supply (UPS)	• Alpha Technologies	• FXM HP 1100	Contact/confirm City staff regarding latest spec.
		Battery Monitoring Device	• Alpha Technologies	• Remote Battery Management System (RBMS)	Contact/confirm City staff regarding latest spec.
		UPS Cabinet	• Valid	• KSDA481716P G-CQ	Coquitlam Spec - c/w • UATS & UGTS • Battery harness • Y Connector • AlphaCell 195 XTB Batteries • Interconnect Cables
		UPS Indicator Light	• RAB Design Lighting	• Model No. DVBKS100CG LED Fixture	Refer to Supplemental Drawings SS-E7.3
		Fire Hall Controller	• Novax	• PLS000874 / PLS000877	Contact/confirm City staff regarding latest spec.
		Special Crosswalk Controller	• Novax	• PLS 000635 / PLS 000859	Contact/confirm City staff regarding latest spec.
		Traffic Video Detection System	• Miovision	• Traffic Link Detection	Contact/confirm City staff regarding latest spec.
		PTZ Cameras	• Pelco	Spectra Enhanced IP • HPOE • CAT5e Ethernet cable • Mounting Hardware	Contact/confirm City staff regarding latest spec. Contact/confirm City staff regarding latest spec. Cat5e as required by selected camera Confirm with City regarding mount type: • Paramount PP350 • OR: • 2 piece mount – PA402 and IWM Series. • Sky-Bracket (if required)

		<i>Product</i>	<i>Manufacturer</i>	<i>Approved Model</i>	<i>Restrictions/Additional Specifications</i>
				• Surge Protection	DITEK Corp. (Product code DTK-PVPIP)
				• Product Registration	Registration Update code for Camera Addition – DS Control Point
		EV Pre-emption System	• Emtrac	Priority Detector Card – ST 9283 • Antenna • Antenna Cable (LMR240DB) • Mounting Bracket • BNC Connectors	Contact/confirm with City staff regarding latest spec.
		Radio Communication Equipment	• Encom	• Commpak BB 5.8 • Cable – CAT5e	
		Paint Color RAL Codes			• Coquitlam Green-RAL 6028 • Coquitlam Black-RAL 9005 • Mallardville Grey-RAL 7024 • Or as directed by City Staff