

## LIST OF APPROVED PRODUCTS AND MATERIALS

The following products have been reviewed by the City of Kamloops Materials Approval Committee and have been deemed to meet City of Kamloops specifications.

Last Modified: 3-Apr-2012			
MMCD REFERENCE		APPROVED PRODUCT	
SECTION	SUB-SECTION	MANUFACTURER - Series or Model Name <span style="color: red;">Recent ammendments are shown in red</span>	COMMENTS
25 56 01	These two sections are listed together - they make up what was the Electrical Section (16650) of the Gold Book		
ROADWAY LIGHTING	2.10.1	Conductor Connectors	Buchanan B Cap (B2-1 or B4-1)
	2.9.1		
AND	2.11.1	Fuses and Fuse Holders	Buss-HEBAA 30A 600V c/w fuse boot
	2.10		Gould 11-1130A 600V c/w fuse boot
34 41 13	2.11	Service Panels	Wesco – Model: P1B260-12-DNBA-SE Valid MFG. Model: BSD 1A24
TRAFFIC SIGNALS	2.16	Traffic and Pedestrian Signals	Traffic Heads/Backboards: Econolite Canada Pedestrian Heads: Siemens (Interprovincial) - Backboard Tape: 3M Diamond grade 4081 Fluorecent Yellow
	2.17	LED Signal Modules	Dialight L.E.D.S - <span style="color: red;">ITE Standard</span>
	2.19	Signal Mounting Hardware	Mid Span plumbizers: <span style="color: red;">Greenlite Traffic</span> Secondary brackets: <span style="color: red;">Greenlite Traffic</span> Clamshell Brackets: Interprovincial Traffic.
	2.20	Audible Signals	Novax 3000i P/N P/S 003001 and P/N P/S 003077
	2.21	Pedestrian/Cyclist Pushbuttons	<span style="color: red;">Pedestrian PushButton Sign/Greenlite Traffic GEL 239LY/R</span> <span style="color: red;">Pedestrian Pushbutton/Polara Engineering -Bulldog BDSP-014-Y</span>
	2.22	Luminaires	Stanpro Lighting systems – part # CHS 50, 100-V-PR-Kam(100w) and part # CHS 50, 150-V-PR-Kam(150w)
	2.23	High Intensity Discharge Lamps	Sylvania or Phillips
	2.24	Photo Controls	Fisher Pierce OLC-7793-EPS 250-377 volts, 7790B-SSS 105- 305 volts.
	3.10	Luminaires and Photocells	Dark to Light (DTL) <sup>TM</sup> D124-1.5-STM, 105-305 volts.
	2.26	NEMA Traffic Controllers	Econolite Canada.
	2.28	Uninterruptable Power Supply	Tech DBL 700 MXD-. UPS DBL 700MX/wdial timer & RM Ears & Cable set for 6 Batteries.
	3.6	Poles and Related Equipment	West Coast Eng. Group. -SD-278, SD-248, SD-308, or B.C. MOTH Traffic Type 1, Type 3, Type 7, Type L, Type S.  NOVA Pole International Inc. NSD-278, NSD-248, NSD-308, or B.C. MOTH Traffic Type 1, Type 3, Type 7, Type L, Type S.  Lumec Inc. (luminaire-100-hps-LL20-PC-FC-RR#120-GNTX-LMS6792F and Pole. -SPR4D-15-GNTX-LMS6792F); luminaire – 11MH-DMS 10 SG3-120-DL-LR-IF-1A and pole – SPR4D-14-PH8/120-LBC2-3/4X20-8-DEC-GN4TX-LMS10518A)
	3.7	3.7 Signal mounting	"Signal Sax" West Coast Engineering or Trans Canada traffic.
31 32 19	2.1	Geosynthetic	
GEOSYNTHETICS			
31 36 13	2.1	Gabions	
GABIONS	2.2	Gabion Mats or Geogrids	

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		SUB-SECTION		
32 01 17.6 SEALING PAVEMENT CRACKS FOR MAINTENANCE PURPOSES	2.1.1	Materials - General - Rubberized and elasticized asphalt sealant		
	2.1.2	Materials - General - High float emulsified asphalt		
32 14 01 UNIT PAVING	2.1.5	Materials - Unit pavers		
	2.1.6	Materials - Edge restraint		
32 17 23 PAINTED PAVEMENT MARKINGS	2.1.3	Materials - Paint		to BC MOT mix design
	2.1.5	Sign Materials - Glass beads		to BC MOT spec
33 11 01 WATERWORKS	2.2.1	Mainline Pipe, Joints and Fittings - Ductile iron pipe	CANADA PIPE COMPANY LTD	SIZES 100-500mm
	2.2.2	Mainline Pipe, Joints and Fittings - Polyvinyl Chloride (PVC) Pressure Pipe	IPEX INC - Blue Brute™, TerraBrute™ REHAU INDUSTRIES LTD - AQUALOC® Municipal PVC ROYAL PIPE SYSTEMS - Royal Seal™ CIOD	SIZES 100-500mm
	2.2.4.1	Mainline Pipe, Joints and Fittings - Fittings - Gray-iron (cast iron)		See supplementary clause in City Standard Amendments - Gray iron (cast iron) fittings shall not be used in the City of Kamloops
	2.2.4.2	Mainline Pipe, Joints and Fittings - Fittings - Ductile iron	TERMINAL CITY IRON WORKS LTD STAR PIPE PRODUCTS UNION FOUNDRY COMPANY SIGMA CORPORATION SIGMA - MJ Fittings C153 (2"-48"); Trim Tyton C153 Push on (4"-24"); MJ Fittings (DI) C110 (3"-48"); Push On Fittings (DI) C110 (4"-12"); Flanged Fittings (DI) C110 (3"-12")	SIZES 100-400mm push-on bell and spigot type joint or flanged joint (mechanical pipe joints not allowed)
	2.2.4.3	Mainline Pipe, Joints and Fittings - Fittings - Compact ductile iron	TERMINAL CITY IRON WORKS LTD STAR PIPE PRODUCTS UNION FOUNDRY COMPANY SIGMA CORPORATION	SIZES 100-400mm push-on bell and spigot type joint or flanged joint (mechanical pipe joints not allowed)
	2.2.4.4	Mainline Pipe, Joints and Fittings - Fittings - PVC injection molded	IPEX INC ROYAL PIPE SYSTEMS HARCO - Injected Moulded Fittings	SIZES 100-300mm All fittings must meet pressure testing standard CSA B137.2.
	2.2.4.5	Mainline Pipe, Joints and Fittings - Fittings - PVC extruded	IPEX INC ROYAL PIPE SYSTEMS GALAXY PLASTICS C900 PVC Fittings (4"-36")	SIZES 100-400mm - IPEX SIZES 100-1200mm - ROYAL PIPE, SIZES 100-900mm GALAXY PLASTICS
	2.2.4.12	Mainline Pipe, Joints and Fittings - Fittings - Couplings	ROBAR INDUSTRIES LTD VIKING JOHNSON SMITH-BLAIR INC - Omni™ Coupling System TOTAL PIPING SOLUTIONS INC - Hymax-2000 ROMAC INDUSTRIES INC.	note: Viking Johnson couplings distributed by Mueller Canada Inc. Smith Blair couplings distributed by Canada Pipeline Acc. Corp. City will be reviewing all couplings - approved products must meet AWWA C219
	2.2.4.12	Mainline Pipe, Joints and Fittings - Fittings - Flanged Coupling Adaptors	UNI-FLANGE STAR PIPE PRODUCTS SMITH-BLAIR INC TOTAL PIPING SOLUTIONS INC - Hymax-2100 ROMAC INDUSTRIES INC.	City will be reviewing all flanged coupling adaptors - approved products must meet AWWA C219

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SECTION	SUB-SECTION	MANUFACTURER - Series or Model Name <span style="color: red;">Recent amendments are shown in red</span>	COMMENTS	
33 11 01 WATERWORKS (CONTINUED)	2.2.4.13	Mainline Pipe, Joints and Fittings - Fittings - Joint Restraint Devices	UNI-FLANGE - Series 1400 STAR PIPE PRODUCTS - Series 3000 CLOW CANADA - Series 1300/1350/1360 EBAA IRON INC SMITH BLAIR - Pipe Lock ROMAC INDUSTRIES INC.	
	2.2.4.14	Mainline Pipe, Joints and Fittings - Fittings - Tapping sleeves for branch connections 75mm and larger	ROBAR INDUSTRIES LTD - Series 6606, 6906, 6926 MUELLER CANADA INC - H-621 SMITH-BLAIR INC - 662 and 663 ROMAC INDUSTRIES INC.	
	2.2.4.15	Mainline Pipe, Joints and Fittings - Fittings - Repair clamps	CANADA PIPELINE ACCESSORIES CORP - CR-2, CR-3 ROBAR INDUSTRIES LTD - Series 5626, and 5636 VIKING JOHNSON - MaxiFit™ CLOW CANADA - Concord TOTAL PIPING SOLUTIONS INC - EZ-Max Plus 4000	
	2.3.2	Valves and Valve Boxes - Mainline Gate valves	AMERICAN AVK CLOW CANADA MUELLER CANADA INC	
	2.3.3	Valves and Valve Boxes - Mainline butterfly valves	PRATT - Groundhog MUELLER CANADA INC - Lineseal III & XP CLOW CANADA - M&H Direct Bury	see supplementary clause in CofK Standard Amendments
	2.3.4	Valves and Valve Boxes - Standpipes	TERMINAL CITY IRON WORKS LTD - 50mm Terminal City Self Draining Standpipe c/w Adapter & Cap	see supplementary clause in CofK Standard Amendments. 50mm size.
	2.3.5	Valves and Valve Boxes - Air Release, Air/Vacuum and Combination Air Valves		
	2.3.6	Valves and Valve Boxes - Mainline Valve Boxes	TERMINAL CITY IRON WORKS LTD - Robar Type WESTVIEW SALES LTD - Robar Type	Only Robar Type valve boxes approved for use. MR type and Nelson Type valve boxes removed from List, Nov 2006.
	2.3.7	Valves and Valve Boxes - Service Valve Boxes	TROJAN - CCSB1 CONCORD - CCSB1 Type McAVITY	
	2.3.8	Valves and Valve Boxes - Check Valves	TERMINAL CITY IRON WORKS LTD MUELLER CANADA INC	Sizes 100-400mm
	2.5.1	Service Connections, Pipe, Joints and Fittings - Pipe diameter 19mm to 50mm	NORANDA - Type K Copper WOLVERINE - Type K Copper IPEX INC - Q-Line®, Blue 904™ (Pex) REHAU - Muncipex® (PEXa)	Only 19mm, 25mm & 50mm services permitted Copper to be Warnock Hersey Certified Blue904™ and Muncipex® services must include tracer wire on all services not perpendicular to the mainline and on all services longer than 20m. <span style="color: red;">Kitec removed from list</span>
	2.5.3.2	Service Connections, Pipe, Joints and Fittings - Service saddles - DI	ROBAR INDUSTRIES LTD - 2616 DB, 2626 DB, 2706 DS SMITH-BLAIR INC - 372, 393 CAMBRIDGE BRASS - Model 812	
	2.5.3.3	Service Connections, Pipe, Joints and Fittings - Service saddles - PVC	IPEX - Blue Brute Fittings Single Tapped Coupling	IPEX - couplings for 150mm and 200mm diameter mainline only
	2.6	Hydrants		<span style="color: red;">PWS are currently reviewing hydrants. Contact PWS for approved types for use in City.</span>

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33 11 01 WATERWORKS (CONTINUED)	2.7.2	Underground Service Line Valves and Fittings - Corporation Stops	FORD MUELLER CANADA INC AY MCDONALD MFG CO CAMBRIDGE BRASS	Non-draining, full flow, full port ball type.
	2.7.3	Underground Service Line Valves and Fittings - Curb Stops	FORD MUELLER CANADA INC AY MCDONALD MFG CO CAMBRIDGE BRASS	Non-draining, full flow, full port ball type.
33 30 01 SANITARY SEWERS	2.1.1	Concrete Pipe - Non-reinforced concrete pipe and fittings		see supplementary clause in CofK Standard Amendments - Non-reinforced concrete pipe shall not be used in the City of Kamloops
	2.1.2	Concrete Pipe - Reinforced circular concrete pipe and fittings	LANGLEY CONCRETE & TILE LTD OCEAN CONSTRUCTION SUPPLIES LTD	
	2.2	Plastic Pipe, Mainline Smooth Profile - Polyvinyl chloride pipe up to 675mm in diameter	IPEX INC - Ring-Tite™ REHAU INDUSTRIES LTD - Duraloc® PVC Sewer Pipe ROYAL PIPE SYSTEMS	
	2.3	Service Connections	ROYAL PIPE SYSTEMS - Inspection Chambers and CSA certified PVC sewer fittings GALAXY PLASTICS LTD - Inspection Chambers and CSA certified PVC sewer fittings PRO-LINE FITTINGS INC - Inspection Chamber (4" Adapt-a-Valve™ IC) and CSA certified PVC sewer fittings. MAINLINE BACKFLOW PRODUCTS INC - Inspection Chamber (Mainline 4" Adapt-a-Valve™ Inspection Chamber, IC SEWER ACCESS lid, and collars).	Confirmed PRO-LINE FITTINGS INC - Inspection Chamber is (4" Adapt-a-Valve™ Inspection Chamber) and is manufactured by MAINLINE BACKFLOW PRODUCTS INC. - corrected and Manufacturer added to list - August 2011
	2.3.8.2	Service Connections - Insertable Tee Products	Insertable tee products (like Inserta-Tees®, Uni-T, E-Z-Tee etc.) may be approved for use under retrofit, rehabilitation, or emergency repair construction only. Contact City Engineer/Project Manager for approval. These products are NOT APPROVED for new construction. Design Engineer must instead specify appropriate sewer fittings.	
33 34 01 SEWAGE FORCEMAINS	2.2	Pipe, Joints and fittings		
	2.3	Valves and Valve Boxes		
	2.4	Valve Chambers		
33 40 01 STORM SEWERS	2.1.1	Concrete Pipe - Non-reinforced circular concrete pipe and fittings		see supplementary clause in CofK Standard Amendments - Non-reinforced concrete pipe shall not be used in the City of Kamloops
	2.1.2	Concrete Pipe - Reinforced circular concrete pipe and fittings	LANGLEY CONCRETE & TILE LTD OCEAN CONSTRUCTION SUPPLIES LTD	
	2.2.1	Plastic Pipe, Mainline Smooth Profile and Perforated Drain Tile - Polyvinyl chloride pipe up to 1200mm in diameter	IPEX INC - Ring-Tite™ REHAU INDUSTRIES LTD - Duraloc® PVC Sewer Pipe ROYAL PIPE SYSTEMS	LOC PIPE removed from list, Oct 2006.
	2.3.1	Plastic Pipe, Mainline Ribbed Profile - PVC Ribbed Pipe	IPEX INC - Ultra-Rib™, Perma-Loc™ Class V, Ultra-X2 REHAU INDUSTRIES LTD - RAURIB ROYAL PIPE SYSTEMS - Royal Kor Flo™	
	2.3	Plastic Pipe, Smooth Profile		

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33 40 01 STORM SEWERS (CONTINUED)	2.4	HDPE Pipe, Mainline Open Profile	POLYTUBES (PACIFIC) INC - Big 'O' Boss 2000  ARMTEC - Boss 2000  ADS/HANCOR - Blue Seal®	A wide range of BOSS 2000 products are manufactured. Each is designed differently to meet the needs of specific standards. ONLY CSA Certified Boss 2000 sizes 100-600mm from POLYTUBES (Pacifc) INC (Langley Plant) and sizes 375-900mm supplied by ARMTEC Prince George, BC have been approved by the City of Kamloops.  Blue Seal® approved for 100-750mm Blue Seal® (triple wall pipe) may be approved for 900mm - contact City Engineer or PM for approval  HDPE pipe for storm applications must have CSA B182.8 certification and all storm sewers must pass air test. Refer to City Ammendments to the Specifications.
	2.5	Spiral Rib Pipe-Steel		
	2.6	Service Connections	ROYAL PIPE SYSTEMS - Inspection Chamber and CSA certified PVC sewer fittings GALAXY PLASTICS LTD - Inspection Chamber and CSA certified PVC sewer fittings PRO-LINE FITTINGS INC - CSA certified PVC sewer fittings	Removed Inspection Chamber from PRO-LINE FITTINGS INC - (4" Adapt-a-Valve™ IC) is only available in 100mm and not the City required 150mm min. for Storm - August 2011
	2.6.8.2	Service Connections - Insertable Tee Products	Insertable tee products (like Inserta-Tees®, Uni-T, E-Z-Tee etc.) may be approved for use under retrofit, rehabilitation, or emergency repair construction only. Contact City Engineer/Project Manager for approval. These products are NOT APPROVED for new construction. Design Engineer must <u>instead specify appropriate sewer fittings.</u>	
	2.11	High Density Polyethylene Pipe (smooth wall)	KWH PIPE (CANADA) LTD - Weholite, and Sclairpipe	see supplementary clause in CofK Standard Amendments - Use only for trunk-mains with no potential for any services to be connected. Minimum 5% grade. Designer must consider expansion and contraction.
33 42 13 PIPE CULVERTS	Maximum 300mm to 600mm Diameter			
	2.1	Corrugated Steel Pipe	ARMTEC LTD ATLANTIC INDUSTRIES LTD	
	2.2	Concrete Pipe		not approved for culverts
	2.3	Plastic Pipe, Smooth Profile		not approved for culverts
	2.4	PVC Pipe Profile		not approved for culverts
	2.5	HDPE Plastic Pipe, Open Profile	ADS/HANCOR - Blue Seal®, Hi-Q® POLYTUBES (PACIFIC) INC - Big 'O' Boss 2000 ARMTEC - Boss 2000	

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33 44 01 MANHOLES AND CATCHBASINS	2.1.7	Material - Cast iron (manhole) frame and cover	TERMINAL CITY IRON WORKS LTD - C-18 WESTVIEW SALES LTD - TR-18 TERMINAL CITY IRON WORKS LTD - C-44A (Adjustable Manhole Frame and Support Ring) STAR PIPE PRODUCTS - MHCW18 (C-18 MH Frame and Cover)
	2.1.13	Material - Cast iron catchbasin frame and grate	DOBNEY FOUNDRY - B-18
	2.1.13	Material - Cast iron catchbasin frame and grate (roll over curb)	TROJAN INDUSTRIES - Type K-2 / Type K-5 DOBNEY FOUNDRY - T-K7
	2.1.16	Material - Adjusting rings	IPEX LifeSaver - Manhole and Catchbasin Adjustment System
	2.1.19	Material - Lawn Drains	DOBNEY FOUNDRY - D22, D2A
	2.0 - Misc.	Material - Composite reinforced polymer concrete headwalls	ARMTEC LTD - Pro-eco-lite™ Headwalls
34 41 155 TRAFFIC CONTROL DEVICES	2.1.2	Sign Materials - Pole	UNISTRUT - Telespar Poles
	2.1.4	Sign Materials - Sign sheeting	3M SCOTCHLITE
033105 SEGMENTAL CONCRETE WALL UNITS	2.1.1	Materials - Segmental concrete wall units	Retaining wall face must aesthetically and sensitively integrate into the surrounding neighbourhood, based on the sole discretion of the City of Kamloops. A registered professional (Engineer) shall undertake the design and conduct field reviews of the construction of a retaining structure greater than 1.2 m (4 ft.) in height, Building By-law No. 11-80.

**Questions or Comments? Contact:**  
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