



## Approved Manufacturers' Products for Roadway Lighting

\*\*\*Proposed Equivalents must be approved through the City's Approved Product Application process.

PRODUCT	SPECIFICATION	FEATURES	MANUFACTURER	CATALOGUE #/ IDENTIFIER	COMMENTS
<b>ELECTRICAL HANDHOLES</b>					
Electrical Handwells	OPSS 2401.05	300mm DIA			OPSD 2112.010
		460mm DIA			OPSD 2112.020
		675mm DIA			OPSD 2112.030
<b>POWER SUPPLY EQUIPMENT</b>					
Power Supply Pedestal Assemblies	OPSS 2414.05.01 of OPSS 2414 is amended by adding the following materials: BSD-817	120/240 V, 100 Amp, 1 Ø, 3 Wire Assembly	Square D	Model # CQ018M100RB	The Contractor shall supply and install a Square D, Model # CQ018M100RB load centre complete with circuit breakers in a Pedestal enclosure at the supply location as specified on the Contract Drawings. The pedestal enclosure shall include a 120/240 V, 100 Amp, 1Ø, 3 Wire assembly. Stainless Steel Natural Finish from the manufacturer (i.e. the Downtown Core - powder coated Black). Circuit breakers shall be installed as shown on the wiring schematics and in accordance with the Operating Authority Standard Drawings. The Contractor shall install three (3), copper stranded RWU 90 conductors (Black, Red, & White) (size as per Contract drawings) from the hydro supply point to the load centre, leaving a sufficient length of cable coiled for the connection to the hydro feed. Each conductor must be one continuous piece, with no splices.
		One- Main Circuit Breakers - 2 pole - 240 V - 100 Amp common trip circuit breaker	Square D		
		Lighting Circuit Breakers (number as specified in the Contract) - 1 pole - 120 V - 30 Amp circuit breaker	Square D	Catalogue # QO-130	
		Lighting Circuit Breakers (number as specified in the Contract) - 2 pole - 240 V - 30 Amp circuit breaker	Square D	Catalogue # QO-230	
		One- Secondary Surge Arrester, 650 Vac phase to ground	Square D	Catalogue # QO2175SB	
		Pedestal assembly shall be a 42" SL422 Streetlighting Pedestal	Pedestal Solutions Inc. with Brooklin Concrete	Model # BCP20PED	
<b>POLES</b>					
Steel Poles, Base Mounted	OPSS 2423.05.	3.1 m (20') - Standard Duty	VALMONT	#8520	All Steel Poles are to be Hot Dipped Galvanized and Powder Coated from the Manufacturer, where applicable.
		7.4 m (24') - Standard Duty	VALMONT	#8524	
		10.7 m (35') - Standard Duty	VALMONT	#8535	
		13.7 m (45') - Standard Duty	VALMONT	#8545	
Concrete Poles, Direct Buried	All poles shall have provision for #6A WG CU electrical ground.		Utility Structures Inc.	HA-285-B-1-PG-10	8.7 metres pole overall length
				HA-325-B-1-PG-10	9.9 metres pole overall length
			Skycast Inc.	SC-285-BRO-CON-DCG	8.7 metres pole overall length
				SC-325-BRO-CON-DCG	9.9 metres pole overall length
			Stresscrete Group	E-285-BPR-G-MOO	8.7 metres pole overall length
				E-325-BPR-G-MOO	9.9 metres pole overall length
Decorative Concrete Poles, Direct Buried	All poles shall have provision for #6A WG CU electrical ground.		Stresscrete Group	KCH18-G-S11-140 30/40	The manufacturer's catalogue number shall be as indicated on the Contract Drawings. These poles shall be complete with pole cap, handhole for underground wiring and handhole cover.
				KCH 27.5-G-S11-140 25/30	
			Utility Structures Inc.	CA-230-A-2-BE-30	
				CA-325-A-2-BE-30	
<b>BRACKETS</b>					
Bracket Type	2428.05.03	2.4 m Tapered Elliptical Bracket			
<b>LUMINAIRES</b>					
Roadway Lighting Type	2432.05.02	LED IES Type II or Type III "cobra head" style with color temperature (CCT) of 4000 and prewired to operate at 120 Volts, C.S.A. approved.	Cree Lighting	XSP Series	All luminaires shall have zero degree (0°) tilt and have the socket position factory set. Specific fixture type must achieve the performance specifications as defined in the supporting IES file and the latest version of ANSI/IES RP-8 Guidelines. Each fixture shall be, prewired to operate at 120 Volts, C.S.A. approved, and shall be equipped with photo control receptacle, ground lug and photocell.
			GE Lighting	EVOLVE Series	
			Phillips / Signify Lighting	LUMEC Roadstar/Roadview Series	
Decorative Roadway Lighting Type	2432.05.03	LED IES Type III with color temperature (CCT) of 4000 and prewired to operate at 120 Volts, C.S.A. approved.	Quattro Lighting	Quattro Pro 301 - Post Top or Quattro Pro 351 Pendant	Decorative Roadway Luminaire shall be per Standard Specification Drawings BSD-826 to BSD-829.
<b>PARK WALKWAY LIGHTING</b>					
Concrete Pole		Pre-stressed, tapered, octagonal in an eclipse finish (black) with mounting for a side mounted fixture.	Utility Structures Inc.	MA-200-A-3-BE-55	
Luminaire		X-AL series (black) 120V, 37 Watt Lamp Driver with a 20 LED LAMP, and Photo Cell included	Cree	X-AL-3-2-D2-D-1-T-C-P	Luminaire to have an adjustable arm mounting structure, and to have a type 2 medium light distribution
Power Pedestal		Pedestal	Pedestal Solutions Inc.	Cat. #TSLM421-4-15	Meter Base to be Compatible with PowerStream Meter(mounted inside pedestal)
		Precast Concrete Base	Utilicon	Cat. #UP2022	Anchor Pedestal to Base, seal all openings