

CALCULATION SUMM	MARY						
LABEL	CALC TYPE	UNITS	AVG	MAX	MIN	AVG/MIN	MAX/MIN
NB SIDEWALK HORIZONTAL	ILLUMINANCE	LUX	5.84	6.8	5.2	1.12	1.31
NB SIDEWALK VERTICAL	ILLUMINANCE	LUX	0.81	2.0	0.0	N.A.	N.A.
NORTHBOUND ILLUMINANCE	ILLUMINANCE	LUX	10.76	16.3	6.0	1.79	2.72
NORTHBOUND LUMINANCE	LUMINANCE	CD/SQ.M	0.50	0.65	0.23	2.17	2.83
NORTHBOUND VEIL LUMINANCE	VEILING LUMINANCE	CD/SQ.M	0.01	0.02	0.00	N.A.	N.A.
SB SIDEWALK HORIZONTAL	ILLUMINANCE	LUX	2.22	2.6	1.8	1.23	1.44
SB SIDEWALK VERTICAL	ILLUMINANCE	LUX	1.06	2.4	0.0	N.A.	N.A.
SOUTHBOUND ILLUMINANCE	ILLUMINANCE	LUX	10.76	17.6	4.9	2.20	3.59
SOUTHBOUND LUMINANCE	LUMINANCE	CD/SQ.M	0.70	1.04	0.25	2.80	4.16
SOUTHBOUND VEIL LUMINANCE	VEILING LUMINANCE	CD/SQ.M	0.01	0.02	0.01	1.00	2.00

LUMINAIRE SCHEDULE

LOWINGAINE SCHEDOLE														
SYMBOL	LABEL	ARRANGEMENT	LLF	CAT#					WATTS	LUMENS	KELVIN	MANUFACTURER		
•	LE1	SINGLE	0.810	ATBO 30B	LED	E10	xxxxx	R3	108W	9337	3000K	ARCHITECTURAL	AREA	LIGHTING

LUMINAIRE SCHEDULE AND DETAILS



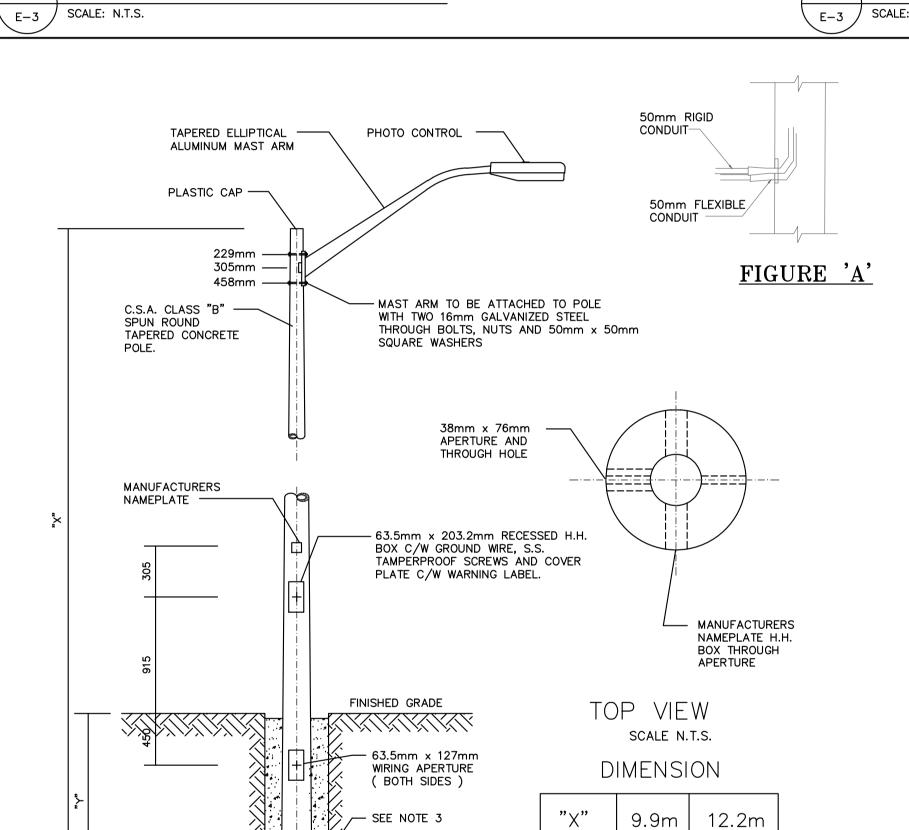
LUMINAIRE TYPE LE1 SCALE: N.T.S. E-3 /

4.10.3 Procedure for Installing Nodes on Luminaires . The Node shall be mounted on each LED luminaire. Once installed the Node will act as a regular photocell until initialized by the Town. · To properly initialize the nodes the Town needs to know which node was installed at each location. To assist with this, each node is labeled with a unique QR Code sticker which includes the Node's Serial number and unique MAC ID. The Node also comes with a detachable QR Code Sticker. During field installation, the installer shall paste the detachable QR Code sticker on the Smart Control Nodes Installation Form below and record the corresponding Pole Coordinates and Pole Number (from the installation TABLE 6: Smart Control Nodes Installation Form Pole# Pole Coordinates* Node Sticker (Paste here) *The permissible level of accuracy for the Pole Coordinates is ± 3m. . Once completed the Electrical Contractor shall submit this information to the Town including

the chart above and design/installation drawings that indicate the pole numbers and locations. The Town's PWO staff will remotely initialize the node using this information. The developer/contractor shall inform the Town representative as soon as the lights are energized.

3 NODE ON LUMINAIRE DETAIL

E-3 SCALE: N.T.S.



NOTES:

- 1. BACKFILL POLE EXCAVATION WITH LIMESTONE SCREENING WELL TAMPERED TO WITHIN 150mm OF THE CENTER OF THE SUBGRADE HANDHOLE.
- 2. POSITION FLEX CONDUIT INTO SUBGRADE HANDHOLE.
- 3. BACKFILL REMAINING POLE EXCAVATION WITH SOIL, FREE FROM STONE AND ANY OTHER DEBRIS AND LEVELED TO MATCH EXISTING GRADE.

1.6m

1.8m

- 4. REINSTATE AREA TO MATCH EXISTING CONDITIONS.
- 5. INSTALLATION DEPTH IS 10% OF POLE HEIGHT PLUS 610MM. 6. 50MM FLEXIBLE PVC CONDUIT TO PROTECT CABLE AT POLE APERTURE. SEE FIGURE 'A'.
- 7. POLE TO BE 9.9M (32'-6") DIRECT BURY, CLASS 'B' SPUN CONCRETE. HAND-HOLE COVER PLATES SHALL HAVE TAMPER PROOF SCREWS AND BE AFFIXED WITH A WARNING LABEL. STREESCRETE MODEL# E325-BPR-G-MOO S/F120V OR 347V
- 8. USE COMPRESSION TYPE CONNECTORS THROUGHOUT. 9. POLE HOLE TO BE 607mm DIA. BY AUGER METHOD ONLY.
- 10. BACKFILL POLE HOLE TO BASE OF CABLE PORTS WITH LIMESTONE SCREENING IN 102mm WELL COMPACTED LAYERS: 150mm OF SAND AROUND S/L CONDUCTOR AND FINISH WITH LIMESTONE SCREENING IN 100mm WELL COMPACTED
- LAYERS UP TO 100mm OF FINISHED GRADE. 11. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SHOWN.



Technical Specifications

Metering Accuracy





PRODUCT #: 8S57107-001004-3-RCH - BLACK

HOUSING



0.5% or 1% Energy Accuracy

Operating Voltage Compliance Itron Networking Specification

Hopping Spread Spectrum up to 300kb/s mesh networking Automatic data routing with self-configuration, auto-healing & redundant uplinks 1Pv6 transport Full application & link-layer security with full PKI, AES-128 and -256, and

embedded firewall **MOV Protection** 320J, 6kv/3kA standard. Option: 420J tested to exceed 10 surges at 20,000V / 10,000A *Guarantee subject to SELC Terms & Conditions. All specifications subject to change without notice

a xylem brand

selc.ie

PowerStream Inc. 17-200 Construction Standard COMPACTION 98% PROCTOR DENSITY NATIVE FILL (SEE NOTE 2 FOR ROAD CROSSINGS - DUCTS FOR OTHER UTILITIES (TEL., CABLE TV, ETC) HIGH VOLTAGE CAUTION TAPE (SEE NOTE 4) 3.75em 3.75am CABLE 3.75cm CABLE DB2/ES2 PVC DUCTS C/W BELL ENDS FOR SECONDAR' CABLES (SEE NOTE 1B) - COMPACTED BRICK SAND - COMPACTED BRICK SAND PVC DUCTS C/W BELL ENDS FOR 1/0 AL OR 1000 kermil CU PRIMARY CABLES (SEE NOTE 1A & 5) 15cm 15cm 15cm 15cm TYPICAL 3-1c (1-CIRCUIT) MAIN TRENCH DETAIL 2 TYPICAL 6-1c (2-CIRCUITS) MAIN TRENCH **NOTES** 1. CAPACITY PER DUCT: A) ONE PRIMARY CABLE IN ONE 100mm(4") DUCT. B) ONE 200A SERVICE SECONDARY CABLE IN ONE 75mm(3") DUCT/ ONE 400A SERVICE SECONDARY CABLE IN ONE 100mm(4") DUCT 2. ROAD CROSSINGS: A) ONE SPARE 100mm(4") DUCT IS REQUIRED AT EACH ROAD CROSSING LOCATION. B) DUCTS FOR ROAD CROSSINGS SHALL BE EXTENDED 100cm PAST BACK OF THE CURB. CONVERSION TABLE METRIC IMPERIAL 145cm 4'-10" 130cm 4'-4" 100cm 3'-4" 90cm 3'-0" 45cm 1'-6" 30cm 1'-0" 15cm 0'-6" 10cm 0'-4" 3.75cm 0'-1.5" 3. INSTALL PATIO SLABS AT ALL HYDRANT & VAULT CHAMBER LOCATIONS. 4. PLACE POWERSTREAM APPROVED HIGH VOLTAGE CAUTION TAPE ON TOP OF THE SAND LAYER. 5. PRIMARY CABLE LOCATION: A) FOR SINGLE PHASE PRIMARY CABLE TRENCH: USE FIELD SIDE DUCT LOCATION. B) FOR TWO PHASE PRIMARY CABLE TRENCH: USE FIELD SIDE AND CENTER DUCT LOCATIONS. FOR THREE PHASE PRIMARY CABLE TRENCH: USE ALL THREE DUCT LOCATIONS. 6. 1000 kcmll CU CIRCUIT SHALL BE LOCATED BELOW 1/O AL FOR REFERENCES SERVICE DROPS WITHOUT GAS SERVICE DROPS 17-10 COMBINATION CIRCUITS IN THE SAME TRENCH. 17-100 7. PADMOUNTED TRANSFORMERS NOT TO BE INSTALLED ON TOP OF THE TRENCH. 8. THIS STANDARD TO BE APPLIED IN CONJUNCTION WITH RESPECTIVE ROAD 17-100A WITH GAS AUTHORITIES REQUIREMENTS. MAIN TRENCH TO BE INSTALLED AS PER POWERSTREAM & ELECTRICAL SAFETY AUTHORITY (ESA) SAFETY REQUIREMENTS. Certificate of Approval his construction Standard meets the safety juirements of Section 4 of Regulation 22/0 MAIN TRENCH DETAILS FOR DIRECT BURIED CABLES IN DUCTS WITH OR WITHOUT GAS Debbie Dadwani, P.Eng. 2006-May-31 P.Eng. Approval By: D. Dadwani ORIGINAL ISSUE DATE: 2007-MAY-31 REVISION NO: REVISION DATE: SCALE: NTS

SELC EXTERNAL CMS MODULE DETAIL E-3 SCALE: N.T.S



 $\langle E^{-3} / SCALE: N.T.S \rangle$

KEY PLAN - NTS

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NOTICE TO CONTRACTOR

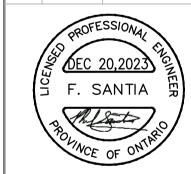
IT IS THE RESPONSIBILITY OF THE CONTRACTOR'S SURVEYOR TO VERIFY THAT ALL LEGAL SURVEY DIMENSIONS SHOWN ON THE ENGINEERS DRAWINGS AGREE WITH THOSE ON THE REGISTERED LEGAL SURVEY PLAN. SHOULD THERE BE ANY DISCREPANCIES, THEN IMMEDIATELY NOTIFY THE ENGINEER OF RECORD

THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY & HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK, AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

> SURVEYOR'S REAL PROPERTY PLAN OF SURVEY OF PART OF LOTS 5 & 6 REGISTERED PLAN 1192, CITY OF BARRIE, COUNTY OF SIMCOE LEGAL DESCRIPTION

ELEVATIONS ARE GEODETIC AND ARE REFERRED TO A CITY OF STATION#: 03120080013 ELEVATION = 284.792m(DATUM: CGVD28:78) BENCHMARK

RE-ISSUED FOR SPA ISSUED FOR SPA REV DATE DESCRIPTION BY APP







CONSULTING ENGINEERS LIGHTING - ELECTRICAL 595 CITYVIEW BLVD, SUITE 204/205 VAUGHAN, ONTARIO, CANADA L4H 3M7 Tel:(905)417-6881 Fax:(905)417-6882 www.e-lumen.ca

EVANS PLANNING 9212 YONGE STREET, UNIT 1, RICHMOND HILL, ON, L4B 7A2

KING RICH HOMES GROUP. 334 & 340 ARDAGH ROAD, BARRIE, ON

DRAWING TITLE

SITE PLAN DETAILS

DESIGN YD	DECEMBER, 2022	SCALE		
DRAWN YD	PROJECT NO. 22-7049	N.T.).	
CHECKED	DRAWING NO.		REV.	
APPROVED	E-3	1		

