



## ELECTRICAL CONSULTANT



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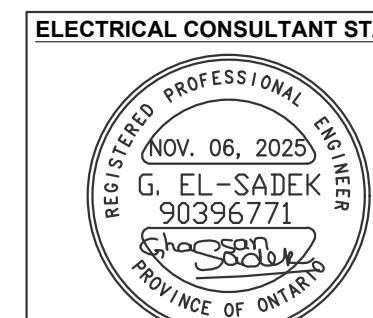
## CONSULTING CIVIL ENGINEERS



J.H. COHOON  
ENGINEERING  
LIMITED  
CONSULTING ENGINEERS

440 HARDY ROAD, UNIT #1, BRANTFORD - ONTARIO, N3T 5L8  
TEL. (519) 753-2656 FAX. (519) 753-4263 www.cohooneng.com

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2.	06/11/25 ISSUED FOR SPA APPROVAL G.S
1.	06/10/25 ISSUED FOR EPCOR APPROVAL G.S

No. DD/MM/YY Version Dwn.

PROJECT:

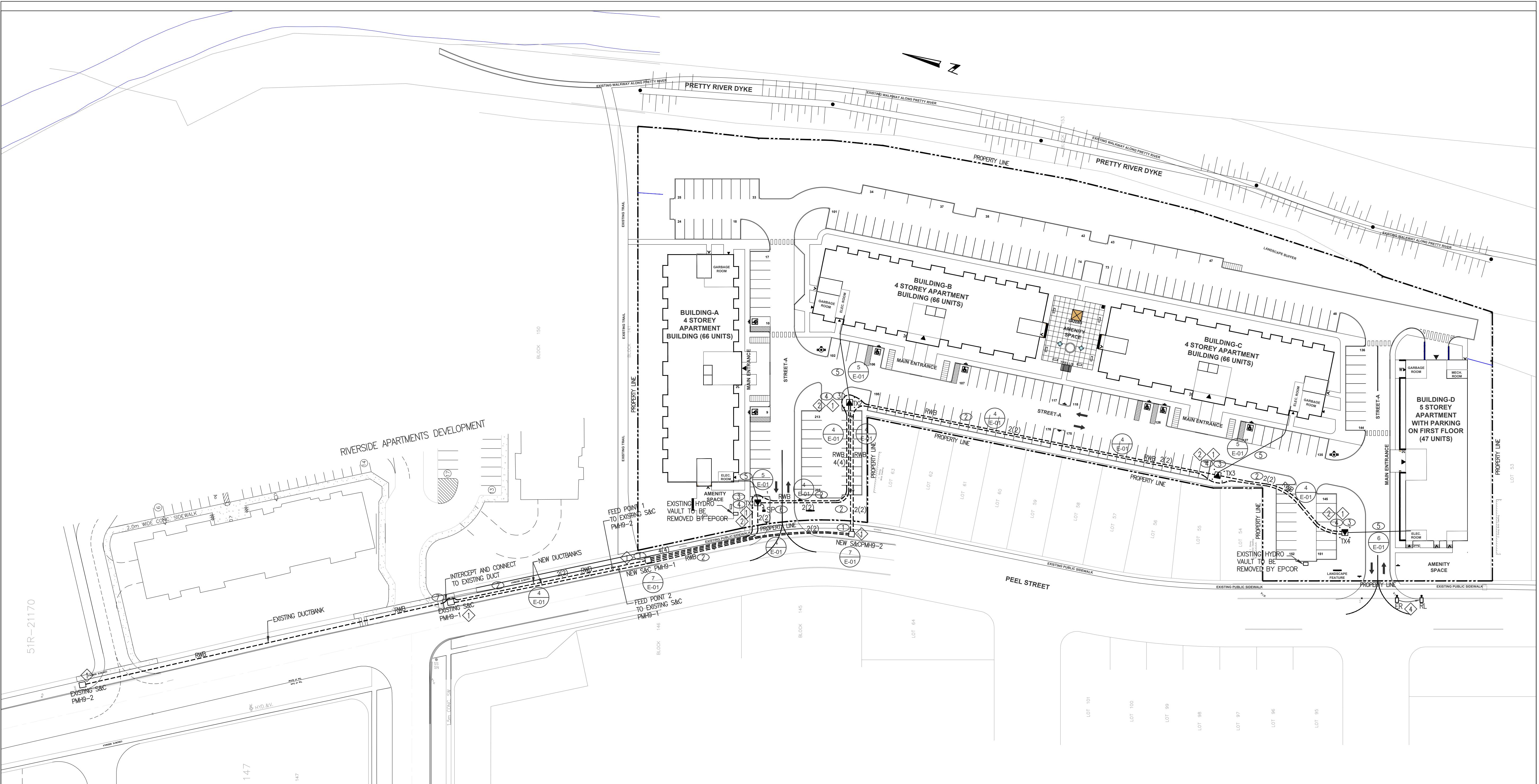
## APARTMENT BUILDING

BLOCK-151, HARMONY LIVING,  
PEEL STREET, ON  
(TOWN OF COLLINGWOOD)

DRAWING TITLE:

### Site Plan - Electrical Servicing, Legend & Notes

DRAWN BY: G.S	DATE: DEC. 16, 2024
CHECKED BY: G.S	SCALE: AS NOTED
PROJECT NO.: 25-012	DRAWING NO.: E-02



## 1 SITE PLAN- ELECTRICAL SERVICING

E-03 SCALE 1:600

## LEGEND

- LP - STREET LIGHTING POLE
- B - PATHWAY LIGHTING BOLLARD
- SLP - STREET LIGHTING METERED PEDESTAL
- TX - PAD MOUNTED TRANSFORMER. REFER TO NOTE ① ON THIS DRAWING
- 2(2) - HIGH VOLTAGE DUCT BANK BY DIV. 16. REFER TO NOTE ② ON THIS DRAWING
- 2(2) - 2(2) DENOTES 2 OCCUPIED DUCTS AND 2 SPARE DUCTS TOTAL 4 DUCTS 2 CABLES
- 120V/208V, 3PH, 4WIRE SECONDARY DUCTBANK AND CABLE BY DEVELOPER.
- ER - DENOTES EXISTING TO BE RE-LOCATED
- RL - DENOTES EXISTING AT RE-LOCATED POSITION
- SC - DENOTES SWITCHING CUBICAL
- S&C PMH9 H.V SWITCHING CUBICAL

## DRAWING NOTES:

## DEVELOPER SCOPE OF WORK

- ① DEVELOPER TO SUPPLY/INSTALL NEW PAD MOUNT 600A HIGH VOLTAGE SWITCHING CUBICLES TO MEET ANSI C57.12.28. ORDERED BY EPCOR AND PAD FOX BY DEVELOPER.
- ② ACCEPTABLE MANUFACTURER FOR SWITCHING CUBICLES: S&C ELECTRIC MODEL PMH-9, ACCEPTABLE MANUFACTURERS FOR PRECAST CONCRETE PAD: UTILICON AND BROOKLIN. REFER TO SPECIFICATIONS ON DRAWING E-01 EPCOR WILL TAKE OWNERSHIP AND MAINTAIN.
- ③ DEVELOPER TO SUPPLY/INSTALL NEW HIGH VOLTAGE DUCT BANK IN CONCRETE ENCASING FOR HYDRO CABLES RUNNING UNDER ROADWAYS AND PARKING AREAS AND H.V. 3 PHASE 15KV, 500MCM, JACKETED CONCENTRIC NEUTRAL FOR EXPRESS FEEDER CABLES AND 3 PHASE 15KV 1/0 JACKETED CONCENTRIC NEUTRAL FOR PRIMARY CABLES FROM SWITCHING CUBICLES TO TRANSFORMERS. ONE SPARE DUCT SHALL BE PROVIDED IN EACH H.V. DUCT BANK FOR EACH CABLE. EPCOR WILL TAKE OWNERSHIP AND MAINTAIN.
- ④ DEVELOPER SHALL PROVIDE GROUNDING GRID FOR PADMOUNT TRANSFORMERS PER USF DETAIL 12-100.
- ⑤ DEVELOPER SHALL PROVIDE CONCRETE ENCASED SECONDARY SERVICING CONDUITS FROM TRANSFORMERS TO BUILDINGS' ELECTRICAL ROOMS. ESA RECORD OF INSPECTION IS REQUIRED.
- ⑥ DEVELOPER TO GENERAL NOTE ON THE DRAWING

## DRAWING NOTES:

## DEVELOPER SCOPE OF WORK (CONT'D)

- ⑥ DEVELOPER SHALL PROVIDE METERED STREET LIGHTING PEDESTAL TO EPCOR STANDARDS. (PEDESTAL SOLUTIONS CAT# SLU421-4-20-100-LC). WIRE WITH 2#3+GROUND CU CONDUCTORS
- ⑦ DEVELOPER TO INTERCEPT EXISTING EXPRESS DUCT BETWEEN EXISTING PMH9-1 AND EXISTING PMH9-2, PULL OUT EXISTING EXPRESS CABLE AND PULL IN NEW EXPRESS CABLE BETWEEN NEW PMHH9-1 AND EXISTING PMH9-2.
- ⑧ EPCOR'S GENERAL CONTRACTOR REQUIREMENTS AND MATERIAL SPECIFICATIONS FOR "MUNICIPAL SUBDIVISION" SHALL BE CONSIDERED A BINDING DOCUMENT AND PART OF THIS CONTRACT UNLESS OTHERWISE SPECIFIED.
- ⑨ DEVELOPER SHALL RETAIN THE SERVICES OF ELECTRICAL CONTRACTOR FROM EPCOR'S APPROVED LIST OF CONTRACTORS. REFER TO SCHEMATIC DIAGRAM DETAIL 1/E-03 AND SPECIFICATION ON DRAWING E-01.

## DRAWING NOTES:

## EPCOR SCOPE OF WORK

- ① EPCOR SHALL TERMINATE AND TEST AT DEVELOPER EXPENSES ALL HIGH VOLTAGE CABLES AT S&C'S SWITCHING CUBICLES AND TRANSFORMERS. TERMINATION MATERIAL SHALL BE SUPPLIED BY EPCOR AND PAID FOR BY DEVELOPER.
- ② EPCOR SHALL SUPPLY AND INSTALL NEW 4.16KV-120V/208V Y/Y PAD MOUNT TRANSFORMERS TO EPCOR'S STANDARDS AT DEVELOPER EXPENSE. EPCOR WILL TAKE OWNERSHIP AND MAINTAIN.
- ③ ALL PRIMARY TERMINATION MATERIAL SHALL BE NEW AND SUPPLIED BY EPCOR AND PAID FOR BY THE DEVELOPER
- ④ CITY OF COLLINGWOOD SHALL REMOVE/RE-LOCATE EXISTING STREET LIGHTING POLE AT PEEL STREET.

## TRANSFORMERS LOADING PER PHASE:

LOOP #1	LOOP #2
TX1 BUILDING A 66 UNITS APPROX. LOAD 367 Kw +STREET LIGHTING PEDESTAL	TX3 BUILDING C 66 UNITS APPROX. LOAD 367 Kw
TX2 BUILDING B 66 UNITS APPROX. LOAD 367 Kw	TX4 BUILDING D 47 UNITS APPROX. LOAD 354 Kw
LOADING PER FEED POINT #1: 734 Kw + STREET LIGHTING PEDESTAL	LOADING PER FEED POINT #2: 721 Kw

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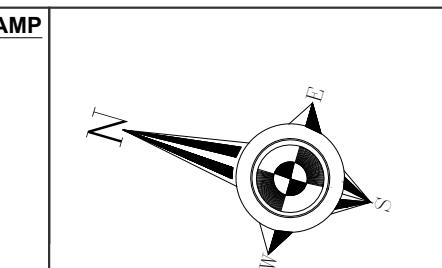
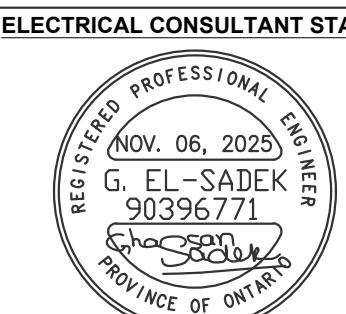
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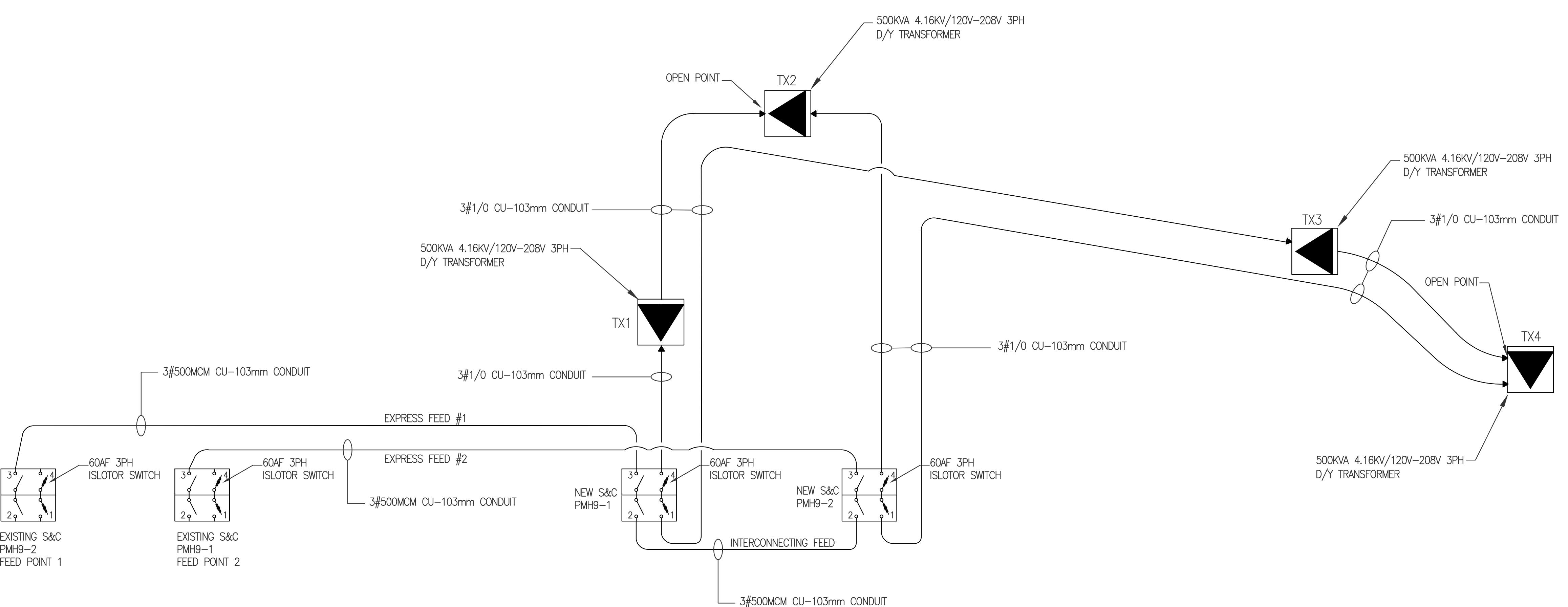


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SEQUENCE OF OPERATION:

NORMAL OPERATION FEED POINT #1:  
EXISTING S&C PMH9-2 : CONNECTION AT TERMINAL 3  
NEW S&C PMH9-1 : 60A 3PH SWITCH#3 ON  
: 60A 3PH SWITCH#4 ON }  
NEW S&C PMH9-2 : 60A 3PH SWITCH#4 ON } FEED FOR TX1 AND TX2

NORMAL OPERATION FEED POINT #2:  
EXISTING S&C PMH9-1 : CONNECTION AT TERMINAL 3  
NEW S&C PMH9-2 : 60A 3PH SWITCH#3 ON  
: 60A 3PH SWITCH#1 ON }  
NEW S&C PMH9-1 : 60A 3PH SWITCH#1 ON } FEED FOR TX3 AND TX4

NOTES:

- 1- ALL SWITCHES ARE NORMALLY OPEN UNLESS IT IS STATED OTHERWISE
- 2- H.V INTERNAL LOOPS ARE NORMALLY OPEN AT TX2 AND TX4
- 3- REFER TO SCOPE OF WORK FOR DEVELOPER AND EPCOR ON DRAWING E-02

SEQUENCE OF OPERATION:

EMERGENCY OPERATION FEED POINT 1 LOST:  
SAME NORMAL OPERATION WITH:  
NEW S&C PMH9-1 : 60A 3PH SWITCH#3 OFF  
: 60A 3PH SWITCH#2 ONF } FEED FOR TX1 AND TX2  
NEW S&C PMH9-2 : 60A 3PH SWITCH#2 ON } FEED FOR TX3 AND TX4

SEQUENCE OF OPERATION:

EMERGENCY OPERATION FEED POINT 2 LOST:  
SAME NORMAL OPERATION WITH:  
NEW S&C PMH9-2 : 60A 3PH SWITCH#3 OFF  
: 60A 3PH SWITCH#2 ONF } FEED FOR TX1 AND TX2  
NEW S&C PMH9-1 : 60A 3PH SWITCH#2 ON } FEED FOR TX3 AND TX4

1

ELECTRICAL HIGH VOLTAGE SCHEMATIC DIAGRAM & SEQUENCE OF OPERATIONS

E-03

SCALE N.T.S

PROJECT:  
**APARTMENT BUILDING**  
BLOCK-151, HARMONY LIVING,  
PEEL STREET, ON  
(TOWN OF COLLINGWOOD)

DRAWING TITLE:

ELECTRICAL HIGH  
VOLTAGE SCHEMATIC  
DIAGRAM & SEQUENCE  
OF OPERATION

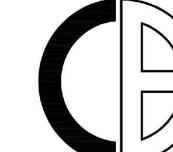
DRAWN BY: G.S	DATE: SEP. 03, 2025
CHECKED BY: G.S	SCALE: AS NOTED
PROJECT NO.: 25-012	DRAWING NO.: E-03

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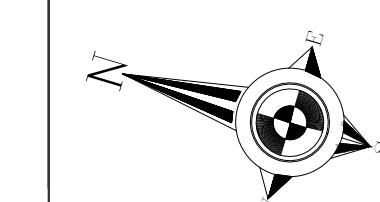


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## ELECTRICAL CONSULTANT STAMP



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No. DD/MM/YY Version Dwn.

PROJECT: **APARTMENT BUILDING**

BLOCK-151, HARMONY LIVING,  
PEEL STREET, ON  
(TOWN OF COLLINGWOOD)

DRAWING TITLE: **SITE PLAN**

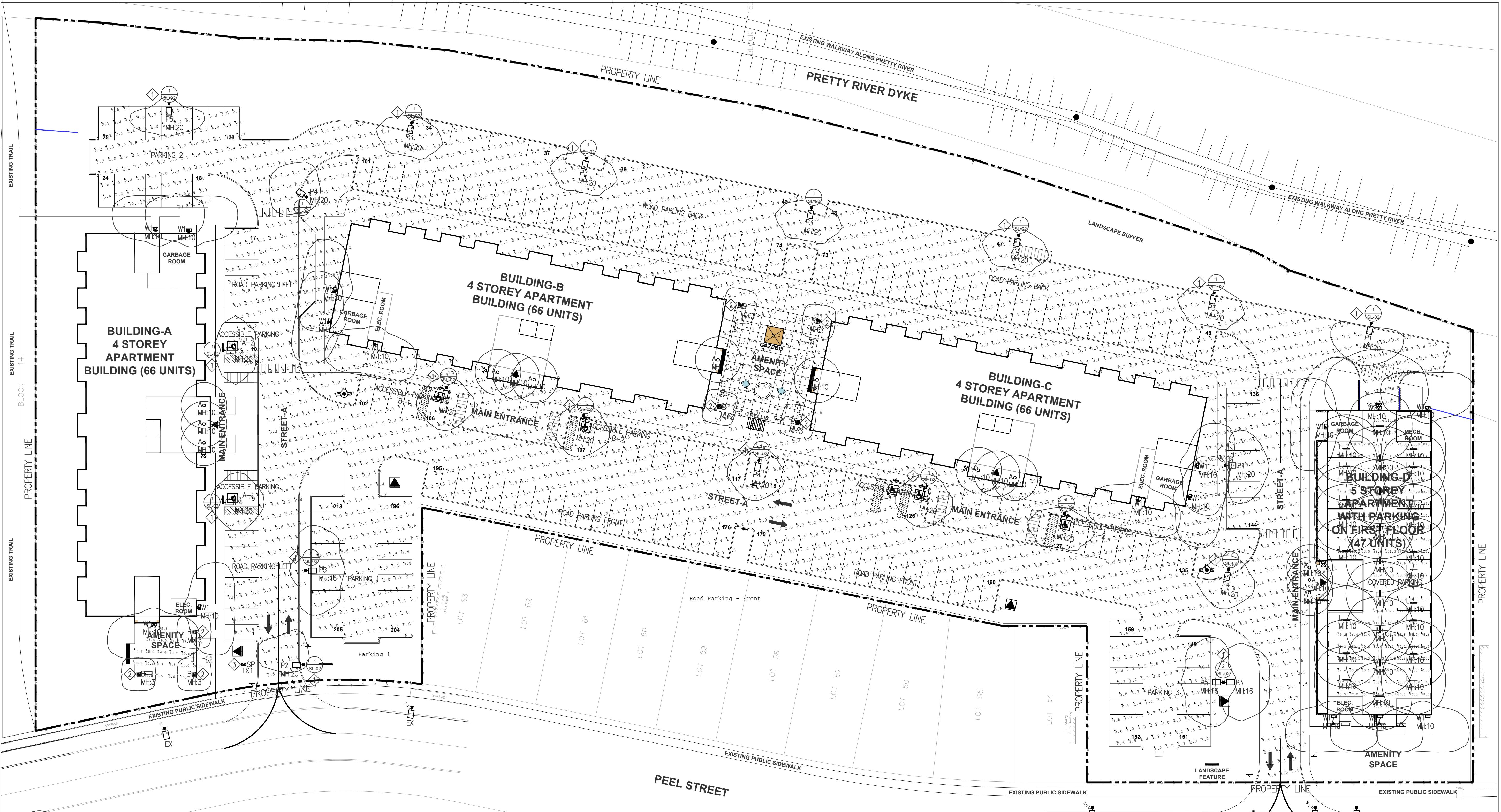
**-LIGHTING PHOTOMETRICS,  
LEGEND & NOTES**

DRAWN BY: G.S DATE:

CHECKED BY: G.S SCALE:

PROJECT NO.: 25-012 DRAWING NO.:

**SL-01**



## Calculation Summary

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
ACCESSIBLE PARKING A-1	Illuminance	Lux	7.56	8.3	6.2	1.22	1.34
ACCESSIBLE PARKING A-2	Illuminance	Lux	6.66	8.1	5.4	1.23	1.5
ACCESSIBLE PARKING B-1	Illuminance	Lux	6.74	8.1	5.7	1.18	1.42
ACCESSIBLE PARKING B-2	Illuminance	Lux	7.70	8.3	7.0	1.10	1.19
ACCESSIBLE PARKING C-1	Illuminance	Lux	5.71	8.4	3.0	1.90	2.80
ACCESSIBLE PARKING C-2	Illuminance	Lux	6.74	8.10	5.4	1.25	1.48
PARKING 1	Illuminance	Lux	3.33	10.9	0.5	6.66	21.8
PARKING 2	Illuminance	Lux	4.99	27.8	1.2	4.16	23.17
PARKING 3	Illuminance	Lux	3.76	12.0	0.6	6.27	20.0
COVERED PARKING GARAGE BLDG. D	Illuminance	Lux	99.23	174.5	5.2	19.08	33.56
ROAD PARKING BACK	Illuminance	Lux	4.45	113.6	0.6	7.42	189.33
ROAD PARKING FRONT	Illuminance	Lux	2.92	10.2	0.6	4.87	17.0
ROAD PARKING LEFT	Illuminance	Lux	4.28	17.0	1.0	4.28	17.0
ROAD PARKING RIGHT	Illuminance	Lux	6.57	44.0	1.0	6.57	44.0
AMENITY AREA BUILDING A	Illuminance	Lux	23.23	81.8	0.6	38.72	136.33
AMENITY AREA BUILDING B-C	Illuminance	Lux	6.16	101.1	0.1	61.6	1011
LIGHT SPILL	Illuminance	Lux	0.00	1.0	0.0	N.A	N.A

## Luminaire Schedule

Symbol	Label	Qty	Arrangement	Description	LLF	Lumens	Watts	Mounting Height	Arm
■	P1	2	Single	GARDOO P15-P-A01-827-BLC	0.90	1700	14.9	20FT	0.0
■	P2	1	Single	GARDOO P15-P-A01-827-LCL	0.90	1700	14.9	20FT	0.0
■	P3	8	Single	GARDOO P15-P-A01-827-3M	0.90	2329	14.9	20FT	0.0
■	P4	7	Single	GARDOO P15-P-A01-827-T4W	0.90	1700	14.9	20FT	0.0
■	P5	3	Single	GARDOO P15-P-A01-827-T4M	0.90	1700	14.9	20FT	0.0
○	A	14	Single	LIGHTQUER CR-6RLM-CCT	0.90	1500	17	10FT	0.0
□	W1	15	Single	GARDOO 121-16L-400-WW-C4-3	0.90	4431	38.3	10FT	0.0
□	W2	1	Single	GARDOO 121-32L-400-WW-C4-4	0.90	6076	52	10FT	0.0
—	L	25	Single	DAY-BRITE CFI DWA43LB40-4-UV	0.90	4431	38.3	10FT	0.0
■	B	7	Single	GARDOO PBL-14L-200-WW-C2-5-UNV	0.90	605	8.4	3FT	0.0

## LEGEND

■	STREET LIGHTING POLE WITH LIGHTING FIXTURE
○	POT LIGHTING FIXTURE
■	PATHWAY BOLLARD LIGHTING FIXTURE
—	PARKING GARAGE LIGHTING FIXTURE
WX	WALL MOUNTED LIGHTING FIXTURE
SLP	STREET LIGHTING PEDESTAL
H&V	FIRE HYDRANT & VALVE
□	PAD MOUNTED TRANSFORMER

## STREET LIGHTING NOTES:

- PROVIDE 16FT, 4" SQUARE ALUMINUM NON TAPERED POLE WITH HINGED BASE AND 460mm DIA 850mm HIGH ARTIFORM OR 325mm LOW ARTIFORM CONCRETE BASE, AND ALL REQUIRED ACCESSORIES. REFER TO DETAILS 1-SL-02 & 2-SL-02 AND LAYOUT ON THIS DRAWING. LIGHTING FIXTURES SHALL BE AS NOTED ON DRAWING. CONTRACTOR SHALL SUPPLY HOUSE SHIELD TO PREVENT UNWANTED LIGHT SPILL ON NEIGHBORING PROPERTIES WHERE REQUIRED.
- PROVIDE PATHWAY LIGHTING BOLLARD TYPE B, C/W CONCRETE BASE PER MANUFACTURER'S RECOMMENDATIONS AND ALL NECESSARY ACCESSORIES.
- PROVIDE 75 MM (3") RIGID TYPE 2, PVC DUCT FROM THE TRANSFORMER TX1 TO THE STREETLIGHT PEDESTAL. PROVIDE METERED STREET LIGHTING PEDESTAL TO CITY OF COLLINGWOOD MUNICIPAL STANDARDS (PEDESTAL SOLUTIONS CAT# SLW4214-20-100-L0). PROVIDE SUPPLY CABLES FROM TRANSFORMER TX1 TO STREET LIGHTING PEDESTAL. CABLE SHALL BE 2/3-COPPER RMW-90-GROUND
- PROVIDE STREET LIGHTING CABLES FROM PEDESTAL TO HONDHOUSE IN STREET LIGHT POLE. CABLES SHALL BE 2/6-COPPER RMW-90 WITH #12-STRANDED COPPER GREEN JACKETED GROUND WIRE. CABLE FROM HONDHOUSE TO LIGHTING FIXTURE SHALL BE 2/13-COPPER RMW-90 WITH #12-STRANDED COPPER GREEN JACKETED GROUND WIRE.
- CITY OF COLLINGWOOD SHALL REMOVE/RE-LOCATE EXISTING STREET LIGHTING POLE AT PEEL STREET.
- PHOTOMETRICS SHOWN ON THIS DRAWING ARE BASED ON ANSI/IESNA RP-8 STANDARDS AND CITY OF COLLINGWOOD MUNICIPAL STANDARDS USING SIGNIFY BRANDS LIGHTING FIXTURES NOTED ON THE DRAWING. EQUIVALENT LIGHTING FIXTURES FROM OTHER REPUTABLE MANUFACTURERS ARE ACCEPTABLE PROVIDED THAT AN EQUAL OR BETTER PERFORMANCE IS ACHIEVED.

## STREET LIGHTING GENERAL NOTES:

- ALL STREET LIGHTING MATERIAL SHALL BE CSA APPROVED AND CONFORMING TO CITY OF COLLINGWOOD MUNICIPAL STANDARDS.
- DUCTS FOR STREET LIGHTING SHALL BE 50mm PVC DB2 TYPE DUCT. AT ROAD CROSSINGS THIS 50mm DUCT SHALL PASS THROUGH 100mm DUCT.
- 50mm BLACK POLY PIPE SHALL BE USED TO PROTECT CABLE ENTERING WIRING APERTURE IN CONCRETE POLE.
- WARNING TAPE MUST BE PLACED OVER STREET LIGHTING DUCTS 0.3METERS BELOW FINAL GRADE, IN ACCORDANCE WITH CSA STANDARDS AND SPECIFICATIONS.
- STREET LIGHTING SUPPLY PEDESTAL SHALL BE IN ACCORDANCE WITH CITY OF COLLINGWOOD MUNICIPAL STANDARDS.
- STREET LIGHTING CABLES SHALL BE IN ACCORDANCE WITH CITY OF COLLINGWOOD MUNICIPAL STANDARDS.
- STREET LIGHTING POLES SHALL BE 4" SQUARE ALUMINUM COMPLYING WITH CITY OF COLLINGWOOD MUNICIPAL STANDARDS.

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LIGHTING FIXTURES TYPES P1, P2, P3 & P4

**GARDCO** Site & Area PureForm P15 small square area light

Gardco PureForm LED area and square P15 fixtures are sleek, low profile design. Pedestrian optics are designed for maximum efficiency and control. The optics are designed to enhance visual comfort by reducing glare and are ideally suited for pedestrian scale applications. Multiple optical distributions and color temperatures are available to allow you to customize your selection.

**Ordering guide**

Prefix	Category	Number of LEDs	Drive Current	LED Color Generation	Distribution	Emergency	Voltage
P15	PureForm area small optics	A02 0.000	750	YCR, 3000K	None	ARI	120V
		A02 0.000	740	YCR, 4000K	None		208V
		A02 0.000	740	YCR, 5000K	None		208V
		A04 0.000	850	YCR, 3000K	None		208V
		A04 0.000	850	YCR, 4000K	None		208V
		A04 0.000	850	YCR, 5000K	None		208V
		A06 0.000	827P	YCR, 3000K	None		208V
		A06 0.000	827P	YCR, 4000K	None		208V
		A06 0.000	827P	YCR, 5000K	None		208V
		A10 0.000	850	YCR, 3000K	None		208V
		A10 0.000	850	YCR, 4000K	None		208V
		A10 0.000	850	YCR, 5000K	None		208V
		A10 0.000	850	YCR, 3000K	None		208V
		A10 0.000	850	YCR, 4000K	None		208V
		A10 0.000	850	YCR, 5000K	None		208V
		A10 0.000	850	YCR, 3000K	None		208V
		A10 0.000	850	YCR, 4000K	None		208V
		A10 0.000	850	YCR, 5000K	None		208V
		A10 0.000	850	YCR, 3000K	None		208V
		A10 0.000	850	YCR, 4000K	None		208V
		A10 0.000	850	YCR, 5000K	None		208V
		A10 0.000	850	YCR, 3000K	None		208V
		A10 0.000	850	YCR, 4000K	None		208V
		A10 0.000	850	YCR, 5000K	None		208V
		A10 0.000	850	YCR, 3000K	None		208V
		A10 0.000	850	YCR, 4000K	None		208V
		A10 0.000	850	YCR, 5000K	None		208V
		A10 0.000	850	YCR, 3000K	None		208V
		A10 0.000	850	YCR, 4000K	None		208V
		A10 0.000	850	YCR, 5000K	None		208V
		A10 0.000	850	YCR, 3000K	None		208V
		A10 0.000	850	YCR, 4000K	None		208V
		A10 0.000	850	YCR, 5000K	None		208V
		A10 0.000	850	YCR, 3000K	None		208V
		A10 0.000	850	YCR, 4000K	None		208V
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		A10 0.000	850	YCR, 3000K	None		208V
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		A10 0.000	850	YCR, 5000K	None		208V
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		A10 0.000	850	YCR, 3000K	None		208V
		A10 0.000	850	YCR, 4000K	None		208V
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		A10 0.000	850	YCR, 3000K	None		208V
		A10 0.000	850	YCR, 4000K	None		208V
		A10 0.000	850	YCR, 5000K	None		208V
		A10 0.000	850	YCR, 3000K	None		208V
		A10 0.000	850	YCR, 4000K	None		208V
		A10 0.000	850	YCR, 5000K	None		208V
		A10 0.000	850	YCR, 3000K	None		208V
		A10 0.000	850	YCR, 4000K	None		208V
		A10 0.000	850	YCR, 5000K	None		208V
		A10 0.000	850	YCR, 3000K	None		208V
		A10 0.000	850	YCR, 4000K	None		208V
		A10 0.000	850	YCR, 5000K	None		208V
		A10 0.000	850	YCR, 3000K	None		208V
		A10 0.000	850	YCR, 4000K	None		208V
		A10 0.000	850	YCR, 5000K	None		208V
		A10 0.000	850	YCR, 3000K	None		208V
		A10 0.000	850	YCR, 4000K	None		208V
		A10 0.000	850	YCR, 5000K	None		208V
		A10 0.000	850	YCR, 3000K	None		208V
		A10 0.000	850	YCR, 4000K	None		208V
		A10 0.000	850	YCR, 5000K	None		208V
		A10 0.000	850	YCR, 3000K	None		208V
		A10 0.000	850	YCR, 4000K	None		208V
		A10 0.000	850	YCR, 5000K	None		208V
		A10 0.000	850	YCR, 3000K	None		208V
		A10 0.000	850	YCR, 4000K	None		208V
		A10 0.000	850	YCR, 5000K	None		208V
		A10 0.000	850	YCR, 3000K	None		208V
		A10 0.000	850	YCR, 4000K	None		208V
		A10 0.000	850	YCR, 5000K	None		208V
		A10 0.000	850	YCR, 3000K	None		208V
		A10 0.000	850	YCR, 4000K	None		208V
		A10 0.000	850	YCR, 5000K	None		208V
		A10 0.000	850	YCR, 3000K	None		208V
		A10 0.000	850	YCR, 4000K	None		208V
		A10 0.000	850	YCR, 5000K	None		208V
		A10 0.000	850	YCR, 3000K	None		208V
		A10 0.000	850	YCR, 4000K	None		208V
		A10 0.000	850	YCR, 5000K	None		208V
		A10 0.000	850	YCR, 3000K	None		208V
		A10 0.000	850	YCR, 4000K	None		208V
		A10 0.000	850	YCR, 5000			