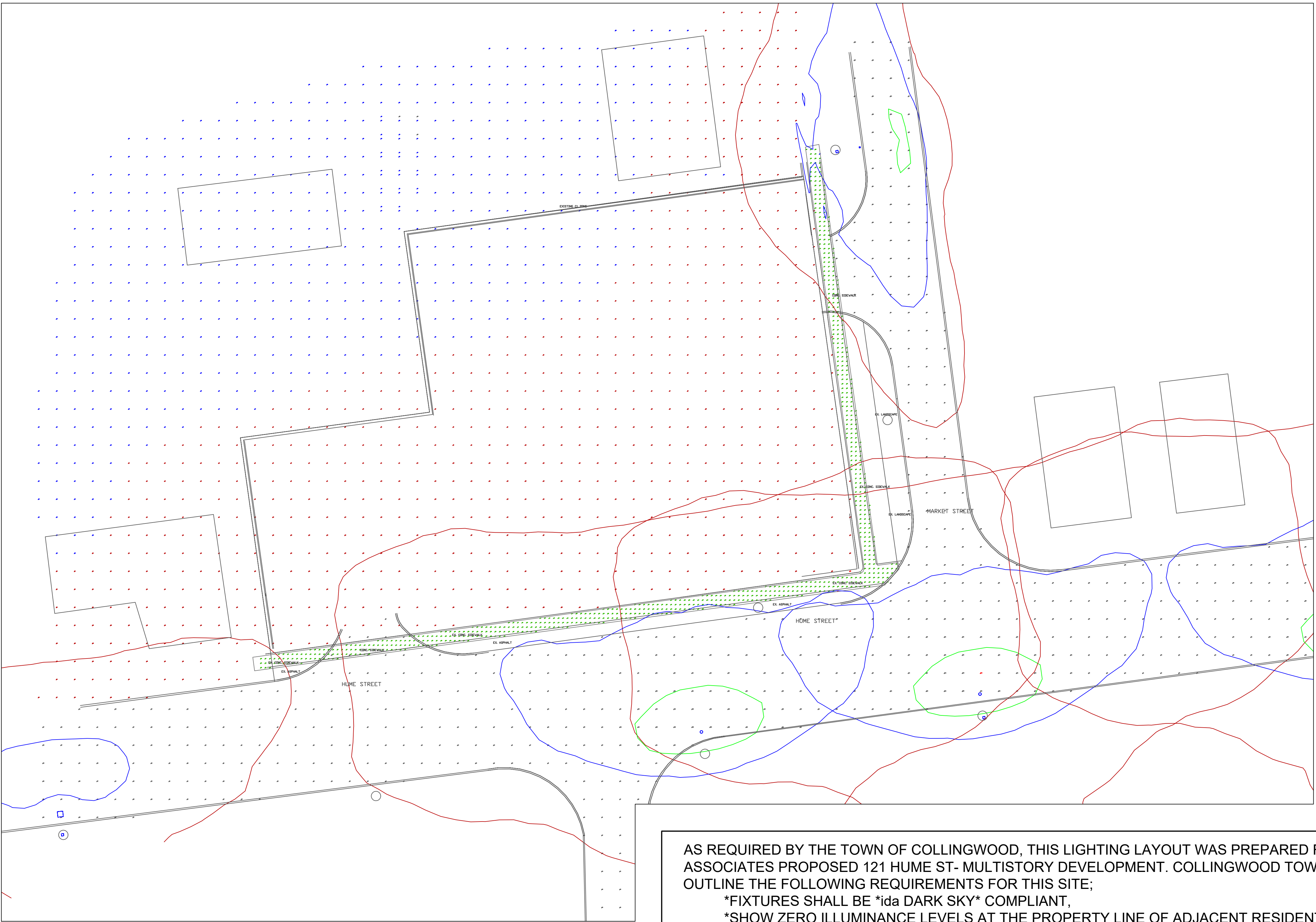




EXISTING PHOTOMETRIC LAYOUT
121 HUME STREET - COLLINGWOOD

2

L1

1:250

*PHOTOMETRIC LEVELS SHOWN FOR EXISTING SYSTEM
ARE FOR APPROXIMATION ONLY*

AS REQUIRED BY THE TOWN OF COLLINGWOOD, THIS LIGHTING LAYOUT WAS PREPARED FOR RUDY AND ASSOCIATES PROPOSED 121 HUME ST- MULTISTORY DEVELOPMENT. COLLINGWOOD TOWN STANDARDS OUTLINE THE FOLLOWING REQUIREMENTS FOR THIS SITE;

- *FIXTURES SHALL BE *ida DARK SKY* COMPLIANT,
- *SHOW ZERO ILLUMINANCE LEVELS AT THE PROPERTY LINE OF ADJACENT RESIDENTIAL PROPERTIES.

TOWN POLICY TO CONFORM WITH *ida* DARK SKY APPROVED FIXTURES (TO BE 3000k OR LESS), FURTHER RECOMMENDATIONS INCLUDE; MOUNTING FIXTURES AS TO ELIMINATE ALL UP-LIGHT AND REDUCE LUMEN OUTPUT AS MUCH AS SAFELY POSSIBLE. IT IS RECOMMENDED FOR DESIGN QUALITY AND SAFETY TO CONSIDER ENGINEERED LIGHTING STANDARD; IESNA CHAPTER 22 - ROADWAY LIGHTING, PARKING FACILITY "FIGURE 22-21" WHICH OUTLINES RECOMMENDATION FOR OUTDOOR PARKING FACILITIES TO MAINTAINED AVERAGE ILLUMINANCE OF 5 lux, WITH UNIFORMITY RATIO 15 : 1, max.

GENERAL LIGHTING DESIGN NOTES
121 HUME STREET - COLLINGWOOD

3

L1



EXISTING SITE OVERVIEW
121 HUME STREET - COLLINGWOOD

1

L1

121 Hume - Site and Area	
Average	0.4 lux
Maximum	8.0 lux
Minimum	0.0 lux
# of light sources	5

*Existing Street lighting only

PHOTOMETRIC RESULTS
121 HUME STREET - COLLINGWOOD

4

L1

Professional Seal:

Professional Engineers
Ontario

Limited Engineering Licensee

Name: M.L. DAWSON

Number: 90164179

Limitations: Electrical design of distribution facilities,
including transformation, grounding and lighting systems.

2021.01.08

Mike Dawson

awson's
Incorporated

Electrical Engineering & Construction

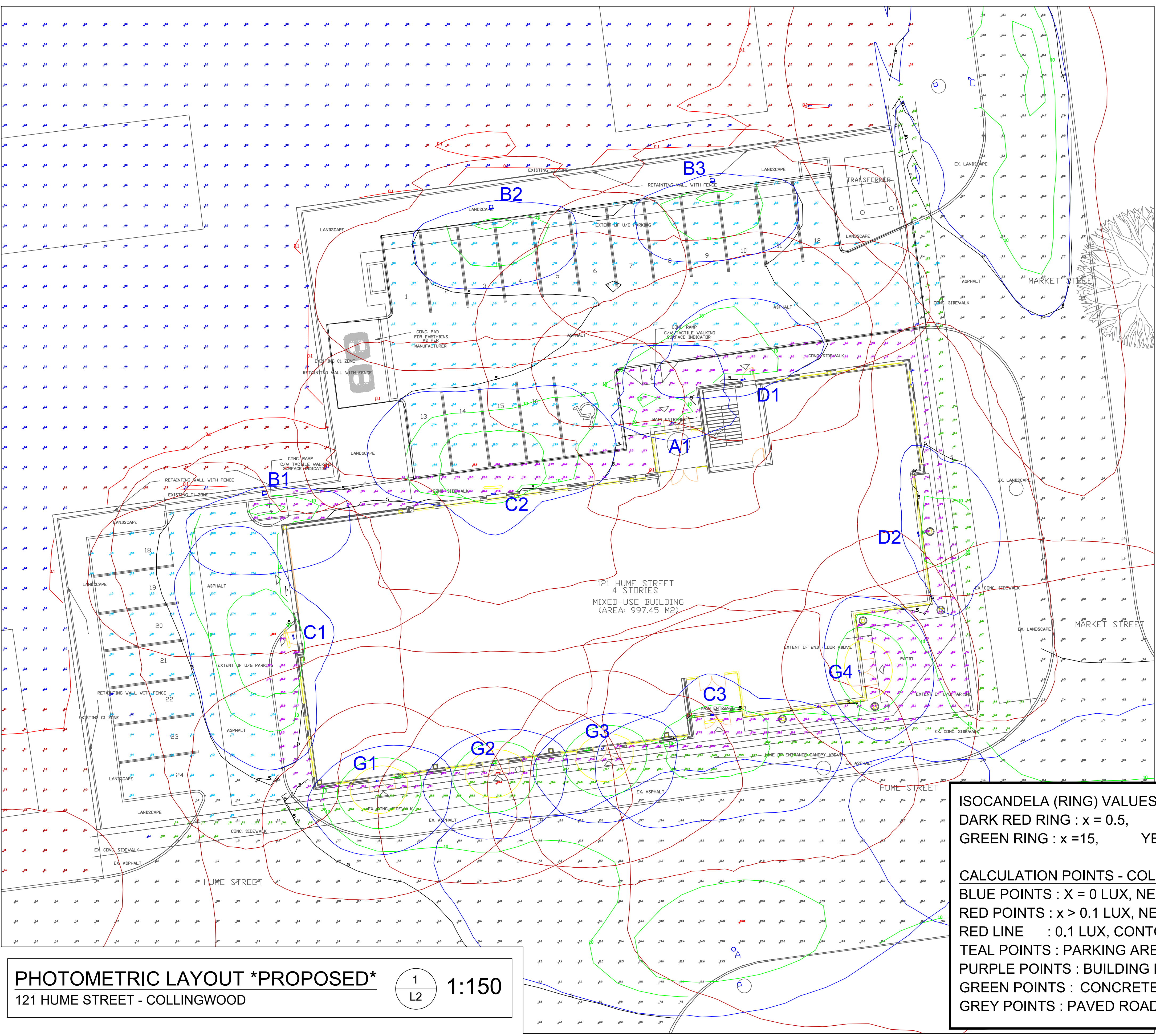
1966 Muskoka Beach Road, Cravenhurst
info@dawsoninc.ca www.dawsoninc.ca

Design by: MIKE DAWSON, CET, LEL
Office: 705-645-2209 mike@dawsoninc.ca

Drawn by: JEFF DAWSON, EIT
Cell: 705-644-3641 jeff@dawsoninc.ca

Checked by:

1	LAYOUT & FIXTURE REVISION	21.01.08
0	ISSUED FOR 2nd SUBMISSION	20.12.29
No.	Revision/Issue	Date
Project Name 121 HUME ST *NEW* BUILD 121 HUME ST, COLLINGWOOD		
Date	2021.01.08	Sheet
Scale	AS NOTED	L1
Drawing Title	EXISTING AREA LIGHTING *ESTIMATE*	



PHOTOMETRIC LAYOUT *PROPOSED*
121 HUME STREET - COLLINGWOOD

121 Hume St - Concrete Sidewalk	
Average	12.0 lux
Maximum	46.2 lux
Minimum	0.7 lux
Max/Min	66.0 : 1
Average/Min	17.9 : 1
# of light sources	18
*Existing Street lighting included	

121 Hume - Building Perimeter	
Average	14.0 lux
Maximum	51.3 lux
Minimum	0.1 lux
Max/Min	513.0 : 1
Average/Min	140 : 1
# of light sources	18
*Existing Street lighting included	

121 Hume St - West Parking	
Average	6.8 lux
Maximum	29.4 lux
Minimum	0.2 lux
Max/Min	147 : 1
Average/Min	34.0 : 1
# of light sources	18
*Existing Street lighting included	

121 Hume St - North Parking	
Average	7.1 lux
Maximum	27.8 lux
Minimum	1.0 lux
Max/Min	27.8 : 1
Average/Min	7.1 : 1
# of light sources	18
*Existing Street lighting included	

121 Hume St - Spill Over	
Average	0.2 lux
Maximum	5.0 lux
Minimum	0.0 lux
Max/Min	N/A
Average/Min	N/A
# of light sources	18
*Existing Street lighting included	

121 Hume St - Spill Over	
Average	0.0 lux
Maximum	1.4 lux
Minimum	0.0 lux
Max/Min	N/A
Average/Min	N/A
# of light sources	13
*Existing Street lighting omitted	

2
L2
PHOTOMETRIC RESULTS
121 HUME STREET - COLLINGWOOD

LIGHT LEVEL UNITS
STANDING 1 FOOT FROM A SINGLE LIT CANDLE PLACED ON THE GROUND IS CONSIDERED = 1.0 FOOT CANDLE (Fc)
1 LUX = 0.1 Fc, THEREFORE 0.1 LUX IS ¹/₁₀₀ OF A FOOT CANDLE.
MINIMUM LIGHT VALUE REPRESENTED IS 0.1 LUX (NEAR 0)

ISOCANDELA (RING) VALUES X=VALUE IN LUX
DARK RED RING : x = 0.5, BLUE RING : x = 5,
GREEN RING : x =15, YELLOW RING : x = 25,

CALCULATION POINTS - COLOUR VALUE
BLUE POINTS : X = 0 LUX, NEIGHBOURING PROPERTY
RED POINTS : x > 0.1 LUX, NEIGHBOURING PROPERTY
RED LINE : 0.1 LUX, CONTOURS (RED POINTS)
TEAL POINTS : PARKING AREA
PURPLE POINTS : BUILDING PERIMETER
GREEN POINTS : CONCRETE SIDEWALK
GREY POINTS : PAVED ROADWAY

Professional Seal:

Professional Engineers Ontario
Limited Engineering Licensee
Name: M.J. DAWSON
Number: 90164179
Limitations: Electrical design of distribution facilities, including load estimation, grounding and lighting systems.
M.J. Dawson 2021.01.08
Association of Professional Engineers of Ontario

DAWSON'S Incorporated
Electrical Engineering & Construction
1986 Muskoka Beach Road, Gravenhurst, Ontario
info@dawsonsinco.ca www.dawsonsinco.ca
Design by: MIKE DAWSON, CET, LEL
Office: 705-645-2209 mike@dawsonsinco.ca
Drawn by: JEFF DAWSON, EIT
Cell: 705-644-3641 jeff@dawsonsinco.ca
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1	LAYOUT & FIXTURE REVISION	21.01.08
0	ISSUED FOR 2nd SUBMISSION	20.12.29
No.	Revision/Issue	Date
Project Name 121 HUME ST *NEW* BUILD 121 HUME ST, COLLINGWOOD		
Date	2021.01.08	Sheet
Scale	AS NOTED	L2
Drawing Title	PROPOSED SITE LIGHTING	

[illegible]

4 LITHONIA DSXW1 LED (A,
LD1 121 HUME STREET - COLLINGWOOD

Professional Seal:

 Professional Engineer
Ontario

Limited Engineering License

Name: **M.J. DAWSON**

Number: **90164179**

License(s): **Electrical design of distribution facilities, including transformers, grounding and lighting systems.**

M.J. Dawson 2021.01.08

Association of Professional Engineers of Ontario

Project Name and Address

121 HUME ST *NEW* BUILD

121 HUME ST, COLLINGWOOD

Date 2021.01.08	Sheet LD1
Scale ---	

6 WEST END LOT RESIDENTIAL PROPERTY
LD1 121 HUME STREET - COLLINGWOOD

11/11/2019