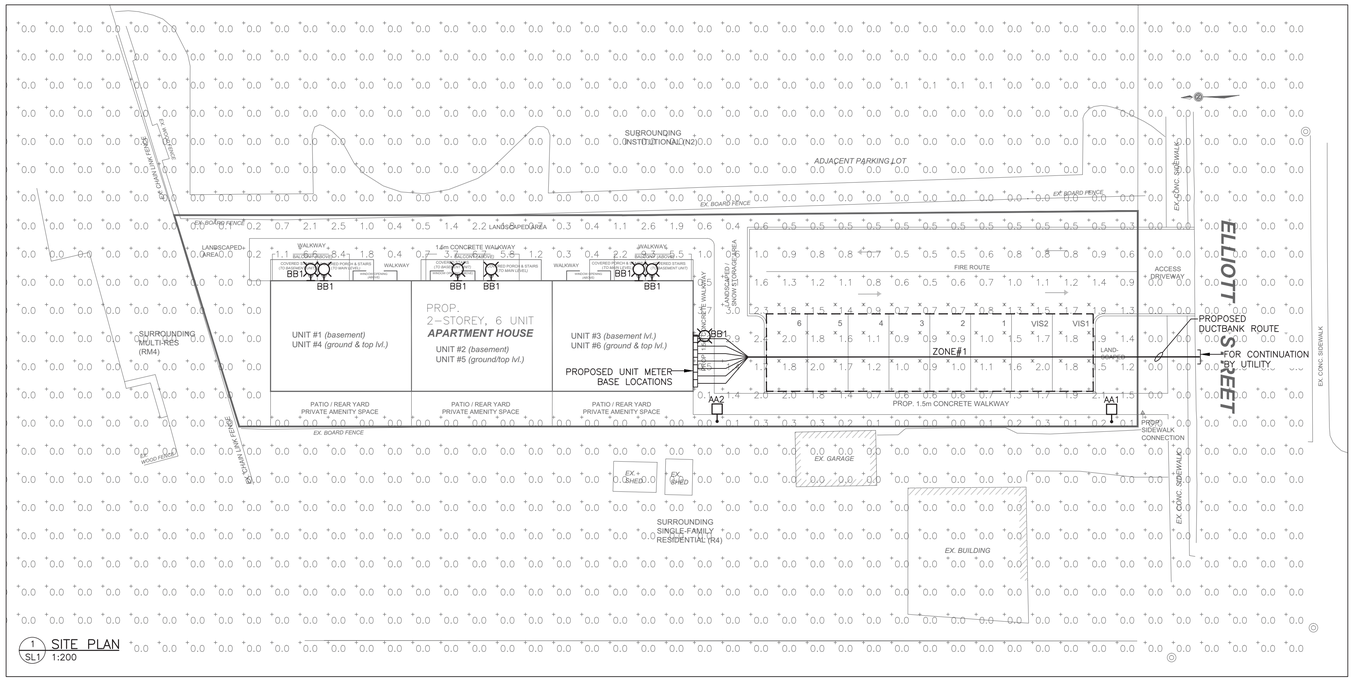


1 SITE PLAN
SL1 1:200

LIGHTING LEVEL CALCULATIONS	
MEASUREMENT (ZONE#1)	HORIZONTAL ILLUMINATION (FC)
AVERAGE	1.4
MAXIMUM	2.0
MINIMUM	0.7
MAXIMUM:MINIMUM	2.9:1
AVERAGE:MINIMUM	2.0:1

ELECTRICAL LEGEND

Z	WALL MOUNTED LIGHT FIXTURE (z = TYPE AS PER SCHEDULE)
Z	POLE LIGHT FIXTURE (z = TYPE AS PER SCHEDULE)

SITE LIGHTING NOTES:

1. THIS DRAWING IS FOR FIXTURE LOCATIONS AND PHOTOMETRIC LAYOUT OF SITE LIGHTING ONLY. CONTACT ELECTRICAL CONSULTANT FOR BUILDING ELECTRICAL SITE PLAN TO CONFIRM LAYOUT OF CONDUIT ROUTING, CIRCUIT ARRANGEMENT, AND WIRE SIZING.
2. VOLTAGES OF FIXTURES ARE TO BE VERIFIED WITH THE ELECTRICAL SITE PLANS PRIOR TO ORDERING FIXTURES.
3. ELEVATIONS OF BASES ARE TO BE COORDINATED WITH SITE GRADING PLAN.
4. LIGHT STANDARDS ARE TO BE COORDINATED WITH WINDOW LOCATIONS. ANY FIXTURES WITHIN 10' (3m) OF THE BUILDING OR ANY CHANGES MADE TO THE BUILDING ENVELOPE ARE TO BE BROUGHT TO THE ATTENTION OF THE SITE LIGHTING CONSULTANT OR PROJECT MANAGER.
5. SUBSTITUTIONS OF LIGHT FIXTURES ARE NOT PERMITTED. IF THE CONTRACTOR SUBSTITUTES LIGHTING FIXTURES THE CONTRACTOR SHALL CARRY ALL COSTS TO HAVE PHOTOMETRIC CALCULATIONS DONE BY THE OFFICE OF THE SITE LIGHTING CONSULTANT AND ALL COSTS ASSOCIATED WITH SITE PLAN RE-SUBMISSION TO THE CITY.
6. PHOTOMETRICS SHOWN CONSIDER ALL FACTORS AFFECTING LIGHT OUTPUT LEVELS SUCH AS LAMP AND BALLAST DEPRECIATION AND DIRT ACCUMULATION OVER AN ESTIMATED ONE-YEAR PERIOD.
7. PHOTOMETRIC VALUES ARE SHOWN IN FOOTCANDLES(fc). A LIGHT LOSS FACTOR OF 0.9 WAS USED IN THE CALCULATION.
8. HOUSE SIDE SHIELDS ARE USED WHERE INDICATED IN LUMINAIRE SCHEDULE. NO ADDITIONAL SHIELDING IS PROVIDED.
9. ALL EXTERIOR LIGHTING POLES ARE TO BE GALVANIZED TO PREVENT CORROSION.
10. ALL EXTERIOR LIGHTING MUST BE CONTROLLED BY PHOTOCELL, ASTRONOMICAL TIME CLOCK, OR A COMBINATION OF BOTH TO ENSURE THAT IT IS NOT 'ON' DURING TIMES WHEN SUFFICIENT DAYLIGHT IS AVAILABLE. THIS REQUIREMENT DOES NOT APPLY TO TENANT CONTROLLED EXTERIOR LIGHTING.

SUITES – UNIT#1 THROUGH UNIT#6
AS PER RULE 8-202 SENTENCE 1 OF
THE ONTARIO ELECTRICAL SAFETY CODE

(i)	3500W
(ii)	1500W
(iii)	0W
(iv)	3000W
(v)	6000W
(vi)	0W
(vii)	1248W

TOTAL LOAD 15.25kW

3 ESTIMATED SUITE LOADS
SL1 NTS

APARTMENT LOAD AS PER ONTARIO ELECTRICAL SAFETY CODE

PER RULE 8-202 SENTENCE 3

(A) LOADS FROM APARTMENTS

(I)	12.25kW x 100%	x 1	=	12.25	kW
(II)	12.25kW x 65%	x 2	=	15.92	kW
(III)	12.25kW x 40%	x 2	=	9.80	kW
(IV)	12.25kW x 25%	x 1	=	3.06	kW

(B) A/C GREATER THAN ELECTRIC HEAT [8-106(4)] 0.00 kW

(C) HVAC LOADS
SUITES 3.00kW x 6 = 18.00 kW

(D) ELECTRIC VEHICLE SUPPLY
EQUIPMENT LOADS 0.00kW x 100% = 0.00 kW

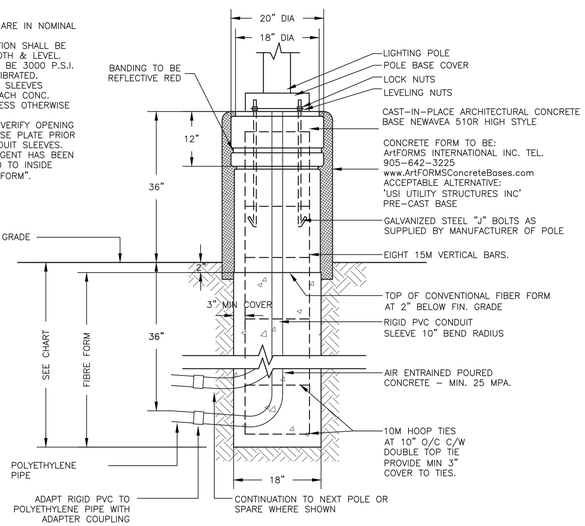
(E) LOADS FROM HOUSE SERVICE
EXTERIOR LIGHTING 0.12kW x 75% = 0.09 kW

TOTAL DEMAND LOAD 59.12 kW

TOTAL ANTICIPATED LOAD 246A @ 240/120V 1ø 3W

4 BUILDING SERVICE SIZE
SL1 NTS

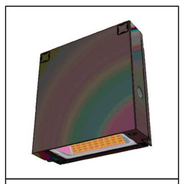
NOTES:
1. ALL DIMENSIONS ARE IN NOMINAL FEET OR INCHES
2. TOP OF FOUNDATION SHALL BE TROWELLED SMOOTH & LEVEL.
3. CONCRETE SHALL BE 3000 P.S.I. AND SHALL BE VIBRATED.
4. MINIMUM OF TWO SLEEVES REQUIRED FOR EACH CONC. FOUNDATION UNLESS OTHERWISE SHOWN.
5. CONTRACTOR TO VERIFY OPENING SIZE IN POLE BASE PLATE PRIOR TO SETTING CONDUIT SLEEVES.
6. FORM RELEASE AGENT HAS BEEN FACTORY-APPLIED TO INSIDE SURFACE OF "ArtForm".



POLE LENGTH	BASE BURIAL DEPTH
10'	5'
19'	7'
29'	8'
35'	8.5'
40'	9'
45'	9.5'
50'	10'

2 ARTFORMS POLE BASE
SL1 N.T.S.

FIXTURE TYPE 'AA1' & 'AA2'



FIXTURE TYPE 'BB1'

EXTERIOR LUMINAIRE SCHEDULE

TYPE	ACCEPTABLE MANUFACTURES	MODELS	CATALOGUE NUMBERS	DESCRIPTION NUM OF LAMPS VOLTAGE	LOCATION MOUNTING HEIGHT	NOTES
AA1	LITHONIA	DSX0	DSX0.LED.P1.30K.RCCO.80CRI. MVOLT.SPA.DBLXD	LED POLE LIGHT 3000K 33W 120V	EXTERIOR POLE 18' A.F.G	PROVIDE 4"X4" SQUARE STEEL POLE. REFER TO DETAIL 2/SL1 FOR POLE BASE DETAILS.
AA2	LITHONIA	DSX0	DSX0.LED.P1.30K.LCCO.80CRI. MVOLT.SPA.DBLXD	LED POLE LIGHT 3000K 33W 120V	EXTERIOR POLE 18' A.F.G	PROVIDE 4"X4" SQUARE STEEL POLE. REFER TO DETAIL 2/SL1 FOR POLE BASE DETAILS.
BB1	LITHONIA	WPX0	WPX0.LED.ALO.SWW2.MVOLT.PE. DDBXD	LED WALLPACK 3000K 7W 120V	EXTERIOR SURFACE 7' A.F.G	SET ALO SETTING TO 1 AND COLOR TEMPERATURE TO 3000K.

LICENSED PROFESSIONAL ENGINEER
T. ALI
100084607
Dec 22, 2023
PROVINCE OF ONTARIO

No	REVISION	DATE
5		
4		
3		
2	ISSUED FOR SPA	2023.12.22
1	ISSUED FOR SPA	2023.11.10

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WEB www.mighton.com

PROJECT TITLE:
NEW 2-STOREY APARTMENT

36 ELLIOT STREET,
CAMBRIDGE, ON

DRAWING TITLE:
SITE LIGHTING PLAN

DRAWN BY: J.L	CUSTOMER PROJECT No. ---
CHECKED BY: T.A	MIGHTON PROJECT No. 44044
DATE: NOV 2023	DRAWING No. SL1
SCALE AS NOTED	