THIS DRAWING INDICATES ALL PROPOSED OUTDOOR LIGHTING FIXTURES FOR THIS DEVELOPMENT. THE PROPOSED LIGHTING DISTRIBUTION PATTERN WILL NOT CAUSE VEILING LUMINANCE (DISABILITY GLARE), AND HAS BEEN DESIGNED TO MEET RP-8 REQUIREMENTS FOR ROADWAY LIGHTING AND THAT VISIBILITY
OF LIGHT SOURCES FROM ANY RESIDENTIAL SITE HAVE BEEN MINIMIZED WHERE POSSIBLE SO AS NOT TO CREATE A NUISANCE.

SIGNATURE OF DESIGN PROFESSIONAL

SITE PLAN NOTES

GENERAL

A. COORDINATE EXACT LOCATIONS OF LIGHT STANDARDS WITH SITE SERVICES, DRIVEWAYS, AND OTHER FEATURES.

B. COORDINATE EXACT LOCATIONS OF POLE MOUNTED FIXTURES ON SITE WITH PARKING AND CURBING.

C. MAINTAIN 1.0M BETWEEN BACK OF CURB AND CENTRE OF POLE BASES.

D. ALL POLE MOUNTED FIXTURES ARE TO BE MOUNTED ON 0.85M ARTFORM NEWAVEA CONCRETE BASE WITH SILVER METALLIC BANDS UNLESS OTHERWISE NOTED. REFER TO DETAIL 2/SLP-1.

1 SLP-1 SITE PLAN
SCALE: 1:500

LEGEND	
SYMBOL	DESCRIPTION
○X ⊙X	POLE MOUNTED LIGHT FIXTURE (AS PER SCHEDULE)
ER	EXISTING TO REMAIN

LIGHTING FIXTURE SCHEDULE

FIXTURE	MANUFACTURER & CATALOG NO.	LAMPS LAMP COLOUR VOLTAGE/BALLAST	FINISH MOUNTING HEIGHT	FIXTURE DESCRIPTION
AA	STREETWORKS CAT.# VERD-A01-E-U-T2-7030-AP	64W 5,713 lm LED 3000°K 120V	TBD POLE ~6.7m AFG	POLE MOUNTED COBRA HEAD LED LUMINAIRE WITH TYPE II WIDE DISTRIBUTION MOUNTED ~6.7m (22') ABOVE FINISHED GROUND. C/W m (6') MAST ARM. ARCHITECT TO SELECT STANDARD FINISH.
AA1	LUMARK CAT.# PRV-C15-D-UNV-T2-BZ-7030-HSS	52W 6,432 lm LED 3000°K 120V	TBD POLE ~4.5m AFG	POLE MOUNTED LED LUMINAIRE WITH TYPE II WIDE DISTRIBUTION MOUNTED ~4.5m (15") ABOVE FINISHED GROUND. C/W m (6') MAST ARM. ARCHITECT TO SELECT STANDARD FINISH.

ROADWAYS - STRAIGHT

ZONE	DESCRIPTION	DESIGN AVERAGE LUMINANCE (cd/m2)	DESIGN AVERAGE/ MINIMUM	DESIGN MAXIMUM/ MINIMUM	DESIGN VEILING LUMINANCE RATIO	IES RP-8-14 RECOMMENDED AVERAGE LUMINANCE (cd/m2)	IES RP-8-14 RECOMMENDED AVERAGE/ MINIMUM	IES RP-8-14 RECOMMENDED MAXIMUM/ MINIMUM	IES RP-8-14 RECOMMENDED VEILING LUMINANCE RATIO
FOUNTAIN ZONE #1 (LS)	STRAIGHT LOCAL	0.43	2.15	5.50	0.34	0.30	6.00	10.00	0.40
FOUNTAIN ZONE #1 (RS)	STRAIGHT LOCAL	1.17	3.90	9.67	0.17	0.30	6.00	10.00	0.40

ROADWAYS - BENDS

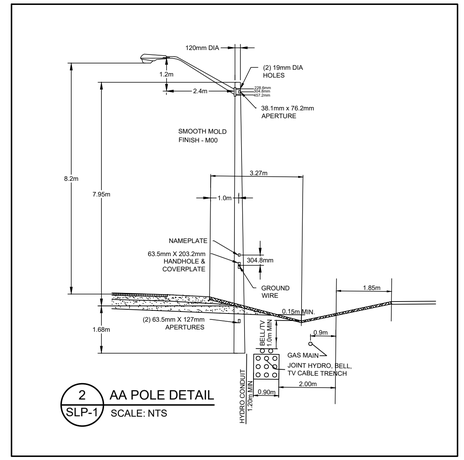
ZONE	DESCRIPTION	DESIGN AVERAGE (fc)	DESIGN AVERAGE /MINIMUM	DESIGN MAXIMUM/ MINIMUM	IES RP-8-14 RECOMMENDED MAINTAINED AVERAGE (N/A)	IES RP-8-14 RECOMMENDED AVERAGE /MINIMUM	IES RP-8-14 RECOMMENDED MAXIMUM/ MINIMUM
FOUNTAIN BEND #1	BEND LOCAL	1.01	3.36	7.67		6.00	10.00
FOUNTAIN BEND #2	BEND LOCAL	0.79	2.63	7.67		6.00	10.00

ROADWAYS - SIDEWALKS

ZONE	DESCRIPTION	DESIGN AVERAGE (fc)	DESIGN AVERAGE /MINIMUM	DESIGN MAXIMUM/ MINIMUM	IES RP-8-14 RECOMMENDED MAINTAINED AVERAGE (N/A)	IES RP-8-14 RECOMMENDED AVERAGE /MINIMUM	IES RP-8-14 RECOMMENDED MAXIMUM/ MINIMUM
FOUNTAIN SIDEWALK #1	SIDEWALK LOCAL	1.12	5.60	12.00		6.0	10.00
FOUNTAIN SIDEWALK #2	SIDEWALK LOCAL	1.09	10.90	26.00		6.0	10.00
FOUNTAIN SIDEWALK #3	SIDEWALK LOCAL	1.03	5.15	17.00		6.0	10.00
FOUNTAIN SIDEWALK RAMP	SIDEWALK LOCAL	1.54	2.56	5.83		6.0	10.00

TYPE AA, POLE MOUNT FIXTURE

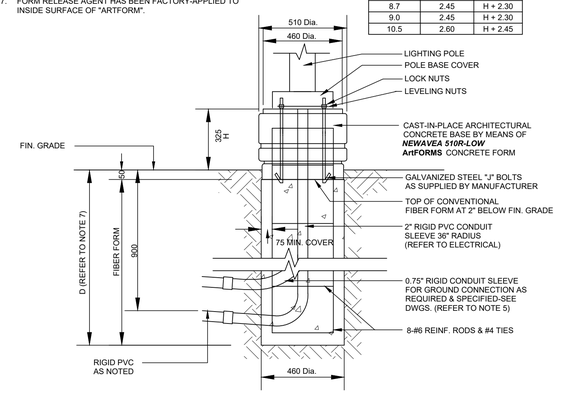
TYPE AA1 POLE MOUNT FIXTURE



2 SLP-1 AA POLE DETAIL
SCALE: NTS

NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES OR METRES.
2. TOP OF FOUNDATION SHALL BE TROWELLED SMOOTH & LEVEL.
3. CLASS OF CONCRETE SHALL BE 25mPa.; CONCRETE 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. SUBJECT TO SOIL CONDITIONS. REFER TO SOIL REPORT.
7. FORM RELEASE AGENT HAS BEEN FACTORY-APPLIED TO INSIDE SURFACE OF "ARTFORM".

POLE LENGTH (m)	BASE BURIAL DEPTH D (m)	REINF. ROD LENGTH (m)
3.0	1.50	H + 1.35
5.6	2.15	H + 2.00
7.0	2.15	H + 2.00
7.5	2.15	H + 2.00
8.7	2.45	H + 2.30
9.0	2.45	H + 2.30
10.5	2.60	H + 2.45



3 SLP-1 AA1 POLE BASE DETAIL
SCALE: NTS

NOTE TO CONTRACTORS:

DO NOT SCALE DRAWINGS.

CONTRACTORS MUST CHECK AND VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS. ALL CONDUIT RUNS AND EQUIPMENT LOCATIONS ARE TO BE COORDINATED WITH STRUCTURAL ELEMENTS AND MECHANICAL EQUIPMENT.

THE DRAWINGS ARE TO BE READ AND DESIGNED IN CONJUNCTION WITH THE SPECIFICATIONS.

ALL DRAWINGS REMAIN THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REPRODUCED, REUSED, OR MODIFIED WITHOUT THE ENGINEER'S WRITTEN PERMISSION.

NO.	DATE	REVISION
01	21 MAY 2020	FOR SPA

LICENSED PROFESSIONAL ENGINEER
22-05-21
J. B. ACRI
100057613
PROVINCE OF ONTARIO

PROJECT NORTH
NORTH

FORTECH ENGINEERING
202-420 Sheldon Dr. P 519-745-2900
Cambridge, ON JAcri@FortechEng.com
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PROJECT # 12220

PROJECT
436 FOUNTAIN ST SITE LIGHTING
Cambridge, ON

DRAWING NAME
SITE LIGHTING PLAN

PLOT DATE	DRAWN BY
21 MAY 2020	N.Drummond
SCALE	CHECKED BY
AS NOTED	J. Acri
JOB NO.	DWG NO.
12220	SLP-1