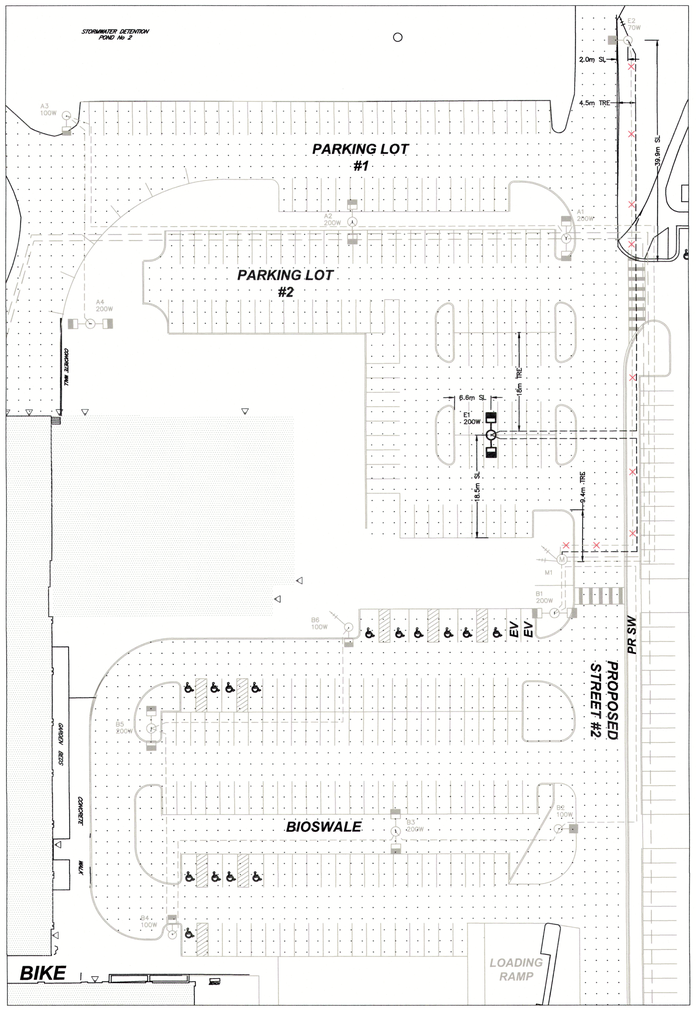
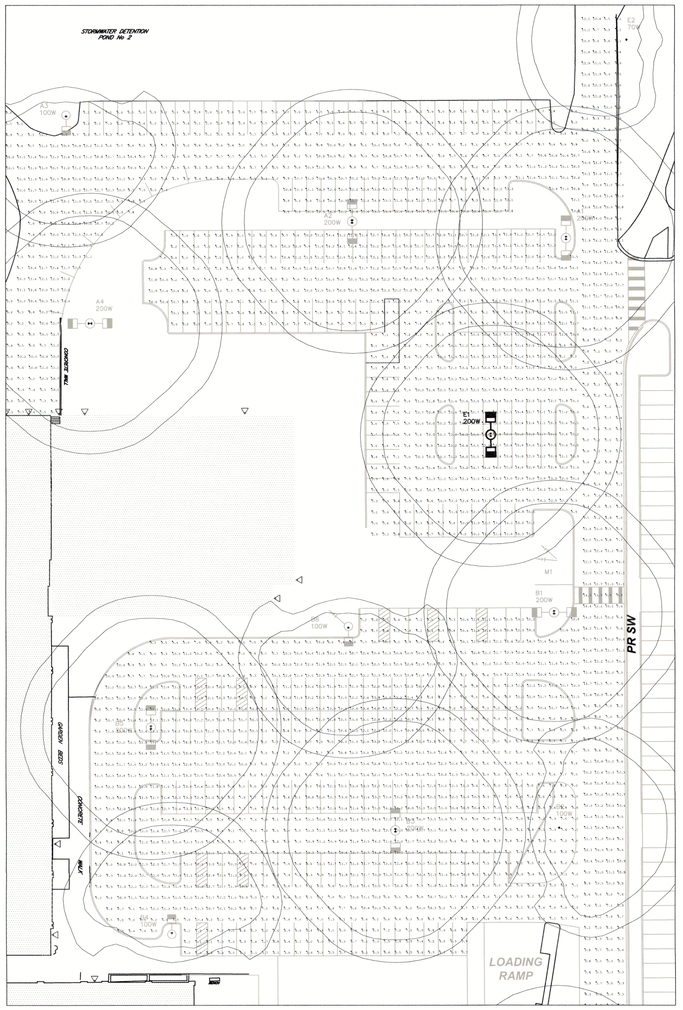
STREETLIGHT LAYOUT



PHOTOMETRICS



NOTE:
ALL STREETLIGHT DUCTS ALONG PROPOSED STREET #2 NORTH OF PEDESTAL M2 TO BE INSTALLED AS PER PHASE 3

NOTES:

1) PARKING LOT #2 IS A PRE-CURFEW PARKING LOT AS PER RP-20-14
THE REQUIREMENTS ARE:
AVG ILLUMINANCE 5.0lux, AVG/MIN 4.0:1, MAX/MIN 15.0.1

Luminaire Schedule						
Symbol	Qty	Label	Arrangement	Total Lamp Lumens	LLF	Description
	10	EANB_C3730	SINGLE	N.A.	0.810	EANB_C3730
	8	EANB_E4730	BACK-BACK	N.A.	0.810	EANB_E4730
	5	EANB_E4730_1	SINGLE	N.A.	0.810	EANB_E4730

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Bioswale	Illuminance	Lux	9.66	15.5	3.4	2.84	4.56
Intersection	Illuminance	Lux	9.84	14.6	3.8	2.59	3.84
Parking Lot #1	Illuminance	Lux	8.14	16.9	2.6	3.13	5.73
Parking Lot #2	Illuminance	Lux	10.04	15.7	2.9	3.46	5.41
Parking Lot #4	Illuminance	Lux	7.39	13.6	2.6	2.84	5.23
Proposed Street #1	Illuminance	Lux	7.60	12.8	2.6	2.92	4.92
Proposed Street #2	Illuminance	Lux	8.64	15.0	2.7	3.20	5.56

LEGEND

100W — PROPOSED STREETLIGHT: 30' (9.14m) SQUARE STRAIGHT BASE MOUNTED POLE (CAT#5SH-30-0.1-03). 100W EVOLVE AREA LIGHT LED TYPE IV (CAT# EANB_E4730___), 10" ARM, IN BLACK FINISH, PHOTOCELL AND CONCRETE FOOTING AS PER KELLAMY 610R

100W — PROPOSED STREETLIGHT: 30' (9.14m) SQUARE STRAIGHT BASE MOUNTED POLE (CAT#5SH-30-0.2-03). 2 x 100W EVOLVE AREA LIGHT LED TYPE IV (CAT# EANB_E4730___),10" ARM, IN BLACK FINISH, PHOTOCELL AND CONCRETE FOOTING AS PER KELLAMY 610R

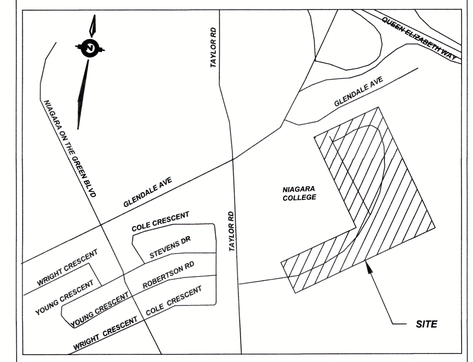
70W — PROPOSED STREETLIGHT: 30' (9.14m) SQUARE STRAIGHT BASE MOUNTED POLE (CAT#5SH-30-0.1-03). 70W EVOLVE AREA LIGHT LED TYPE III (CAT# EANB_E3730___), 10"ARM, IN BLACK FINISH, PHOTOCELL AND CONCRETE FOOTING AS PER KELLAMY 610R

PX — PROPOSED STREET LIGHT METERED PEDESTAL BY PEDESTAL SOLUTIONS INC. C/W PRECAST CONCRETE BASE & PL27-TCV METERBASE MOUNTED ON THE BACK, SLT MODEL, 22KA RATING, 3P-100A, 120/208V MAIN BREAKER AND FOUR (1P-40A) BRANCH CIRCUIT BREAKERS.

STREETLIGHT CABLE: 2-#2 CU. RW90 & 1-#2 RW90 CU. (GREEN). CABLE SHALL BE IN DIRECT BURIED 100mm PVC TYPE II DUCT AT 900mm BELOW FINISHED GRADE.

PEDESTAL FEED CABLE: 2 RUNS OF 3-#2/0 AWG CU RW90 XLPEI. CABLE SHALL BE IN DIRECT BURIED 100mm PVC TYPE II DUCT AT 900mm BELOW FINISHED GRADE

GROUND ROD.



KEY PLAN
N.T.S.

REVISIONS

No.	DESCRIPTION	DATE	BY	APPROVED
2.	RE-ISSUED FOR TENDER PRICING	MAR.27/19	SK	SD
1.	ISSUED FOR TENDER PRICING	JUNE.27/18	AS	SD

PHASE 2 (OCTOBER 2018)
LIGHTING LAYOUT & PHOTOMETRICS

NIAGARA COLLEGE
NIAGARA ON THE LAKE CAMPUS

REGISTERED PROFESSIONAL ENGINEER
N. A. IOZZO
03/27/19
PROVINCE OF ONTARIO

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DATE : JUNE 12, 2018
SCALE : 1:500
DRAWN BY : AS
DESIGNED BY : AS
CHECKED BY : SD
PROJECT No. 255A 17 121
DRAWING No. SL-3