2023079 Innes Road - Electrical Drawing List

INNES ROAD, OTTAWA, ONTARIO

DESCRIPTION	DRAWING NO.	SHEET NO.
Electrical Cover Page	E0.0	1
Electrical Legend, Single Line Diagram, Schedules & Details	E0.1	2
Electrical Site Lighting Photometrics	E1.0	3
Electrical Site Lighting Plan	E1.1	4

DesignWorks Engineering

P: 780 244 0252 **F:** 780 244 0252
Suite 1250 10130 103 St NW
Edmonton, AB T5J 3N9
info@designworkseng.com
www.designworkseng.com

COPYRIGHT 2024
DESIGN WORKS ENGINEERING LTD.

COPYRIGHT RESERVED

THESE DRAWINGS AND DESIGN ARE THE EXCLUSIVE PROPERTY OF DESIGN WORKS ENGINEERING LTD. AND MAY NOT BE REPRODUCED IN ANY WAY OR FORM WITHOUT THE DIRECT WRITTEN PERMISSION OF DESIGN WORKS ENGINEERING LTD.

NOTES

THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS SIGNED AND SEALED, AND DRAWINGS HAVE BEEN ISSUED FOR CONSTRUCTION IN THE TABLE BELOW.

DO NOT SCALE THIS DRAWING.

No.	Description	Date
1	ISSUED FOR REVIEW 30%	2023-05-30
2	ISSUED FOR REVIEW 50%	2023-07-28
3	ISSUED FOR REVIEW 75%	2024-01-03
4	ISSUED FOR SPA REV.2	2024-02-22

ARCHITECT

CLIENT

SEAL

LICENSED PROFESSIONAL ENGINEER
W. TOUMEH
100604333
PROVINCE OF ONTARIO
Feb. 22 2024

PERMIT

DRAWN BY:	ACF
CHECKED BY:	SHERRY KALDAS
ENGINEER:	MOSES NORGA, P.ENG.
PROJECT #:	2023079
SCALE:	AS NOTED

PROJECT

Innes Road

INNES ROAD, OTTAWA, ONTARIO

DESCRIPTION

Electrical Cover Page

DRAWING NO.

E0.0

SHEET

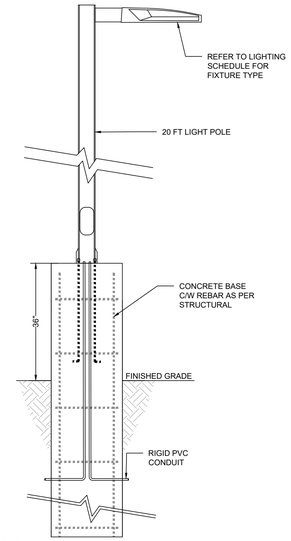
1 / 4

D07-12-23-0095

#19033

ELECTRICAL SYMBOL LEGENDS

LIGHTING / SWITCHING	
	SURFACE CEILING MOUNTED LUMINAIRE
	SURFACE CEILING MOUNTED EMERGENCY POWERED LUMINAIRE
	RECESSED CEILING MOUNTED LED DOWNLIGHT
	RECESSED CEILING MOUNTED EMERGENCY POWERED LUMINAIRE
	SUSPENDED CEILING MOUNTED LUMINAIRE
	SUSPENDED CEILING MOUNTED EMERGENCY POWERED LUMINAIRE
	WALL MOUNTED LUMINAIRE
	WALL MOUNTED EMERGENCY POWERED LUMINAIRE
	SURFACE OR SUSPENDED MOUNTED LUMINAIRE
	SURFACE OR SUSPENDED MOUNTED EMERGENCY POWERED LUMINAIRE
	RECESSED MOUNTED LUMINAIRE
	TRACK TYPE LUMINAIRE (REERE TO FIXTURE SCHEDULE FOR HEAD COUNTS AND TRACK LENGTHS)
	POLE MOUNTED LUMINAIRE (QUANTITY OF HEADS AS SHOWN ON PLAN)
	BOLLARD TYPE LUMINAIRE
$	SINGLE POLE SWITCH
$3 (4)	THREE WAY OR FOUR WAY SWITCH
$K	KEY-OPERATED SWITCH
$D	DIMMER SWITCH
$VS	SWITCH C/W VACANCY SENSOR
$VD	DIMMER SWITCH C/W VACANCY SENSOR
$OS	SWITCH C/W OCCUPANCY SENSOR
$T	TIMER SWITCH
OS	OCCUPANCY SENSOR - CEILING MOUNTED (PROVIDE TYPE SUIT COVERAGE)
VS	VACANCY SENSOR - CEILING MOUNTED (PROVIDE TYPE SUIT COVERAGE)
TC	TIMECLOCK CONTROLLER
PC	PHOTOCELL CONTROLLER



NOTE:

REFER TO STRUCTURAL DRAWINGS FOR STRUCTURAL REINFORCING AND ALL DIMENSIONS RELATED TO THE CONCRETE BASES.

2 / E0.1 Pole Mounted Lumaire Base Detail
Scale NTS

LUMINAIRES	CROSSTOUR WALL MOUNT LED
LAMP	LED, 4000K
LUMENS	6037 LM
BALLAST	LED DRIVER
HOUSING	-
LENS	-
INPUT WATTAGE	58 W
MOUNTING	EXTERIOR WALL SURFACE
SPECIAL REQUIREMENTS	-
ACCEPTABLE PRODUCTS	LUMARK - XTOR6B-W (OR APPROVED EQUIVALENT)
LUMINAIRE TYPE	104

LUMINAIRES	GALLEON AREA AND ROADWAY LUMINAIRE
LAMP	LED, 4000K
LUMENS	14372 LM
BALLAST	-
HOUSING	-
LENS	-
INPUT WATTAGE	113 W
MOUNTING	20FT POLE
SPECIAL REQUIREMENTS	-
ACCEPTABLE PRODUCTS	McGRAW-EDISON - GLEON-SA2C-740-U-T4W (OR APPROVED EQUIVALENT)
LUMINAIRE TYPE	110

LUMINAIRES	CROSSTOUR WALL MOUNT LED
LAMP	LED, 5000K
LUMENS	2134 LM
BALLAST	LED DRIVER
HOUSING	-
LENS	-
INPUT WATTAGE	18.2 W
MOUNTING	EXTERIOR WALL SURFACE
SPECIAL REQUIREMENTS	-
ACCEPTABLE PRODUCTS	LUMARK - XTOR2B (OR APPROVED EQUIVALENT)
LUMINAIRE TYPE	111

LUMINAIRES	GALLEON AREA AND ROADWAY LUMINAIRE
LAMP	LED, 4000K
LUMENS	10490 LM
BALLAST	-
HOUSING	-
LENS	-
INPUT WATTAGE	113 W
MOUNTING	20FT POLE
SPECIAL REQUIREMENTS	-
ACCEPTABLE PRODUCTS	McGRAW-EDISON - GLEON-SA2C-740-U-T4W-HSS (OR APPROVED EQUIVALENT)
LUMINAIRE TYPE	114

3 / E0.1 Luminaire Schedules
Scale NTS

DesignWorks Engineering
P: 780 244 0252 **F:** 780 244 0252
Suite 1250 10130 103 St NW
Edmonton, AB T5J 3N9
info@designworkseng.com
www.designworkseng.com

COPYRIGHT 2024
DESIGN WORKS ENGINEERING LTD.

COPYRIGHT RESERVED

THESE DRAWINGS AND DESIGN ARE THE EXCLUSIVE PROPERTY OF DESIGN WORKS ENGINEERING LTD. AND MAY NOT BE REPRODUCED IN ANY WAY OR FORM WITHOUT THE DIRECT WRITTEN PERMISSION OF DESIGN WORKS ENGINEERING LTD.

NOTES

THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS SIGNED AND SEALED, AND DRAWINGS HAVE BEEN ISSUED FOR CONSTRUCTION IN THE TABLE BELOW.

DO NOT SCALE THIS DRAWING.

No.	Description	Date
1	ISSUED FOR REVIEW 30%	2023-05-30
2	ISSUED FOR REVIEW 50%	2023-07-28
3	ISSUED FOR REVIEW 75%	2024-01-03
4	ISSUED FOR SPA REV.2	2024-02-22

ARCHITECT

CLIENT

SEAL

LICENSED PROFESSIONAL ENGINEER
W. TOUMEH
100604333
PROVINCE OF ONTARIO
Feb. 22 2024

PERMIT

DRAWN BY:	ACF
CHECKED BY:	SHERRY KALDAS
ENGINEER:	MOSES NORGA, P.ENG.
PROJECT #:	2023079
SCALE:	AS NOTED

PROJECT

Innes Road

INNES ROAD, OTTAWA, ONTARIO

DESCRIPTION

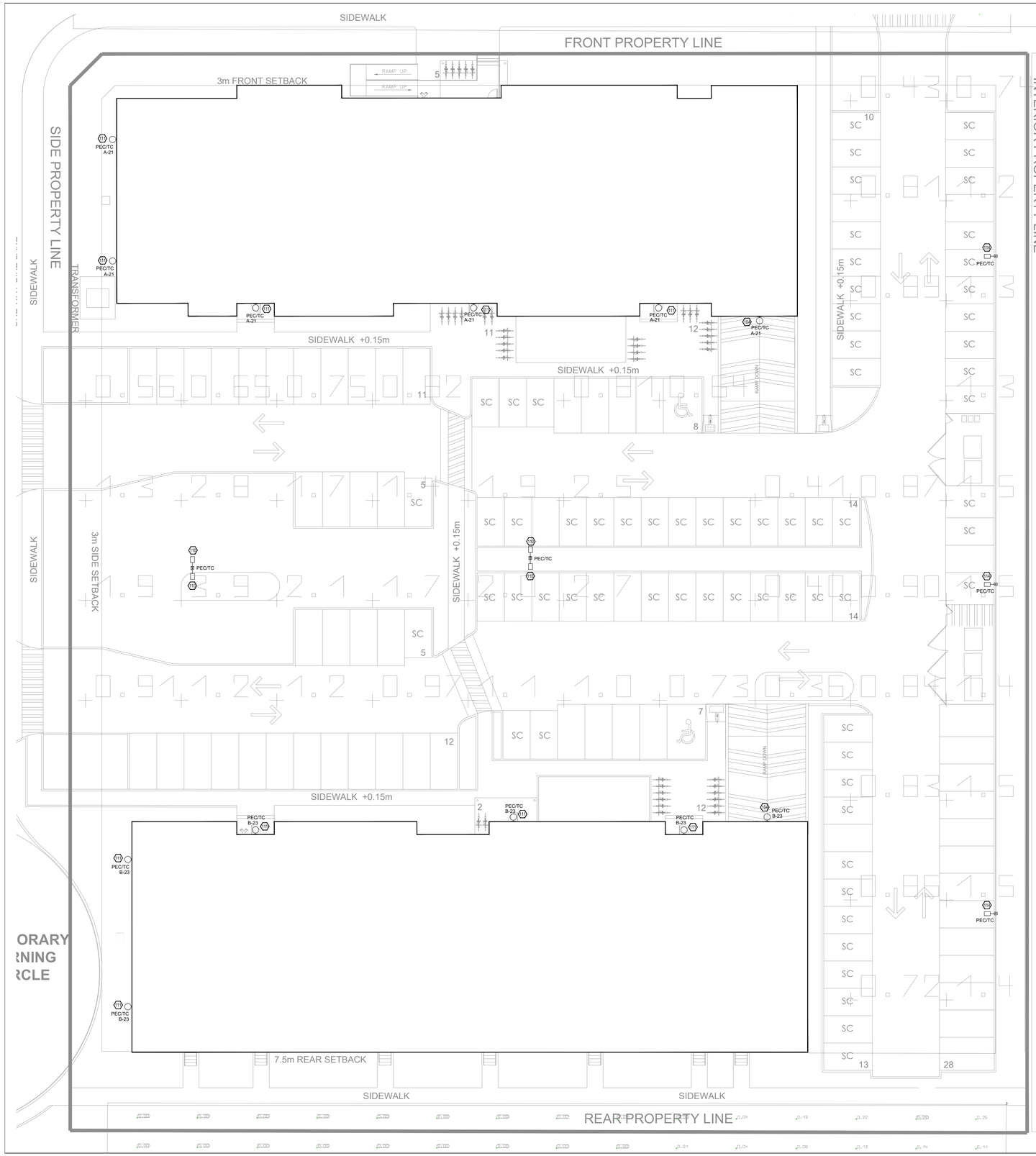
Electrical Legend, Single Line Diagram, Schedules & Details

DRAWING NO. E0.1

SHEET 2 / 4

D07-12-23-0095

#19033



Callout	Name	Parameter	Min	Max	Average	Min/Average	Min/Max
114	Calculation surface 1	Perpendicular illuminance	0.001 fc	0.10 fc	0.011 fc	0.103	0.11
111	Calculation surface 2	Perpendicular illuminance	0.000 fc	0.12 fc	0.011 fc	0.00	0.00
110	Calculation surface 3	Perpendicular illuminance	0.000 fc	0.28 fc	0.026	0.00	0.00
104	Calculation surface (Outdoor space 1)	Perpendicular illuminance (Adaptive)	0.20 fc	5.30 fc	1.37 fc	0142	0.037

2 / E1.0 Lighting Calculations
Scale: NTS

1 / E1.0 Electrical Site Lighting Photometrics
Scale: 1/16"=1'-0"

DesignWorks Engineering
P: 780 244 0252 F: 780 244 0252
Suite 1250 10130 103 St NW
Edmonton, AB T5J 3N9
info@designworkseng.com
www.designworkseng.com
COPYRIGHT 2024
DESIGN WORKS ENGINEERING LTD.

COPYRIGHT RESERVED

THESE DRAWINGS AND DESIGN ARE THE EXCLUSIVE PROPERTY OF DESIGN WORKS ENGINEERING LTD. AND MAY NOT BE REPRODUCED IN ANY WAY OR FORM WITHOUT THE DIRECT WRITTEN PERMISSION OF DESIGN WORKS ENGINEERING LTD.

NOTES

THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS SIGNED AND SEALED, AND DRAWINGS HAVE BEEN ISSUED FOR CONSTRUCTION IN THE TABLE BELOW.

DO NOT SCALE THIS DRAWING.

No.	Description	Date
1	ISSUED FOR REVIEW 30%	2023-05-30
2	ISSUED FOR REVIEW 50%	2023-07-28
3	ISSUED FOR REVIEW 75%	2024-01-03
4	ISSUED FOR SPA REV.2	2024-02-22

ARCHITECT

CLIENT

SEAL
LICENSED PROFESSIONAL ENGINEER
W. TOUMEH
100604333
PROVINCE OF ONTARIO
Feb. 22 2024

PERMIT

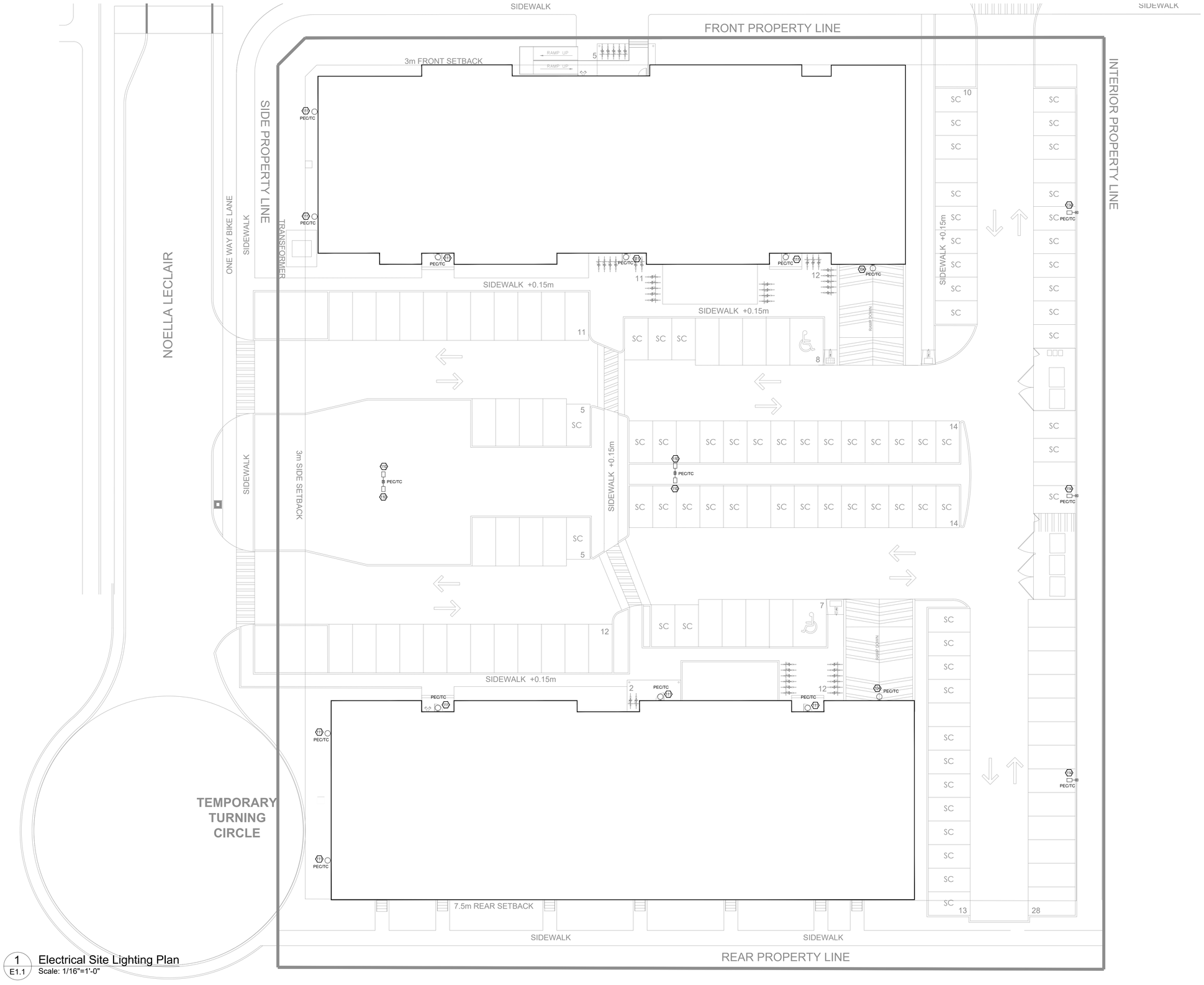
DRAWN BY:	ACF
CHECKED BY:	SHERRY KALDAS
ENGINEER:	MOSES NORGA, P.ENG.
PROJECT #:	2023079
SCALE:	AS NOTED

PROJECT
Innes Road
INNES ROAD, OTTAWA, ONTARIO

DESCRIPTION
Electrical Site Lighting Photometrics

DRAWING NO. E1.0
SHEET 3 / 4

D07-12-23-0095
#19033



1 E1.1 Electrical Site Lighting Plan
Scale: 1/16"=1'-0"

DesignWorks Engineering
P: 780 244 0252 F: 780 244 0252
Suite 1250 10130 103 St NW
Edmonton, AB T5J 3N9
info@designworkseng.com
www.designworkseng.com

COPYRIGHT 2024
DESIGN WORKS ENGINEERING LTD.

COPYRIGHT RESERVED

THESE DRAWINGS AND DESIGN ARE THE EXCLUSIVE PROPERTY OF DESIGN WORKS ENGINEERING LTD. AND MAY NOT BE REPRODUCED IN ANY WAY OR FORM WITHOUT THE DIRECT WRITTEN PERMISSION OF DESIGN WORKS ENGINEERING LTD.

NOTES

THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNLESS IT IS SIGNED AND SEALED, AND DRAWINGS HAVE BEEN ISSUED FOR CONSTRUCTION IN THE TABLE BELOW.

DO NOT SCALE THIS DRAWING.

No.	Description	Date
1	ISSUED FOR REVIEW 30%	2023-05-30
2	ISSUED FOR REVIEW 50%	2023-07-28
3	ISSUED FOR REVIEW 75%	2024-01-03
4	ISSUED FOR SPA REV.2	2024-02-22

ARCHITECT

CLIENT

SEAL

LICENSED PROFESSIONAL ENGINEER
W. TOUMEH
100604333
PROVINCE OF ONTARIO
Feb. 22 2024

PERMIT

DRAWN BY:	ACF
CHECKED BY:	SHERRY KALDAS
ENGINEER:	MOSES NORGA, P.ENG.
PROJECT #:	2023079
SCALE:	AS NOTED

PROJECT

Innes Road

INNES ROAD, OTTAWA, ONTARIO

DESCRIPTION

Electrical Site Lighting Plan

DRAWING NO. E1.1

SHEET 4 / 4

D07-12-23-0095

#19033