

CMHC File #RFX-000207
Exterior Lighting Upgrades–Phase 4 (Granville Island)

CANADA MORTGAGE AND HOUSING CORPORATION

ITT – Exterior Lighting Upgrade – Phase 4 (Granville Island)

AMENDMENT #1

This amendment forms part of the Contract Documents and is to be read, interpreted and coordinated with all other parts. The cost of all work contained herein shall be included in the Contract Sum. The following revisions supersede the information contained in the original drawings and specifications issued for tender for the above named project to the extent referenced and shall become part hereof.

PART 4- SPECIFICATIONS AND DRAWINGS IS DELETED AND REPLACED

Please refer to the attached for drawings and specifications

All other terms and conditions remain unchanged.

CMHC SCHL
GRANVILLE ISLAND OFFICE

GRANVILLE ISLAND
PHASE 4
EXTERIOR LIGHTING UPGRADE



1 **AERIAL VICINITY MAP**
E0.0 SCALE : N.T.S.

CIVIC ADDRESS:
GRANVILLE ISLAND, VANCOUVER, BRITISH COLUMBIA

DRAWING LIST:	SCALE
E0.0 - COVER PAGE / SCHEDULE	N.T.S.
E1.1 - ISLAND ZONE PLAN	1:1000 M
E1.2 - LUMINAIRE SCHEDULE	N.T.S.
E2.0 - ZONE F1 PLAN - EXISTING	1:250 M
E2.1 - ZONE F1 PLAN - NEW	1:250 M
E3.0 - ZONE F2 PLAN - EXISTING	1:250 M
E3.1 - ZONE F2 PLAN - NEW	1:250 M
E4.0 - ZONE H PLAN - EXISTING	1:250 M
E4.1 - ZONE H PLAN - NEW	1:250 M
E5.0 - ZONE I1 PLAN - EXISTING	1:250 M
E5.1 - ZONE I1 PLAN - NEW	1:250 M
E6.0 - ZONE I2 PLAN - EXISTING	1:250 M
E6.1 - ZONE I2 PLAN - NEW	1:250 M
E7.0 - ZONE J1 PLAN - EXISTING	1:250 M
E7.1 - ZONE J1 PLAN - NEW	1:250 M
E8.0 - ZONE J2 PLAN - EXISTING	1:250 M
E8.1 - ZONE J2 PLAN - NEW	1:250 M
E9.0 - DETAILS	N.T.S.
E9.1 - DETAILS	N.T.S.
E10.0 - SPECIFICATIONS	N.T.S.

NOTE:
SITE CONDITIONS WHICH MAY PROHIBIT THE EXACT POSITIONING OF LIGHT FIXTURES AND OTHER ELECTRICAL DEVICES SHALL BE REPORTED TO THE APPROPRIATE CONSULTANT IMMEDIATELY FOR FURTHER INSTRUCTIONS.

CONSULTANT
NEMETZ (S/A) & ASSOCIATES LTD.
CONSULTING ENGINEERS
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SEAL

No.	Issued	By	yy/mm/dd
5	-	-	-
4	-	-	-
3	ISSUED FOR TENDER	DM	2020.11.26
2	ISSUED FOR CONSTRUCTION	DM	2020.11.12
1	ISSUED FOR COORDINATION	DM	2020.11.05

Client/Project
CMHC SCHL
GRANVILLE ISLAND OFFICE
GRANVILLE ISLAND
PHASE 4 EXTERIOR LIGHTING UPGRADE

VANCOUVER BC CANADA

Title
COVER PAGE

Project No. 14440 Scale 1:1000 M

Drawn By DM Checked By KK/DN

Drawng NO. E0.0 Date 17 DEC. 2020

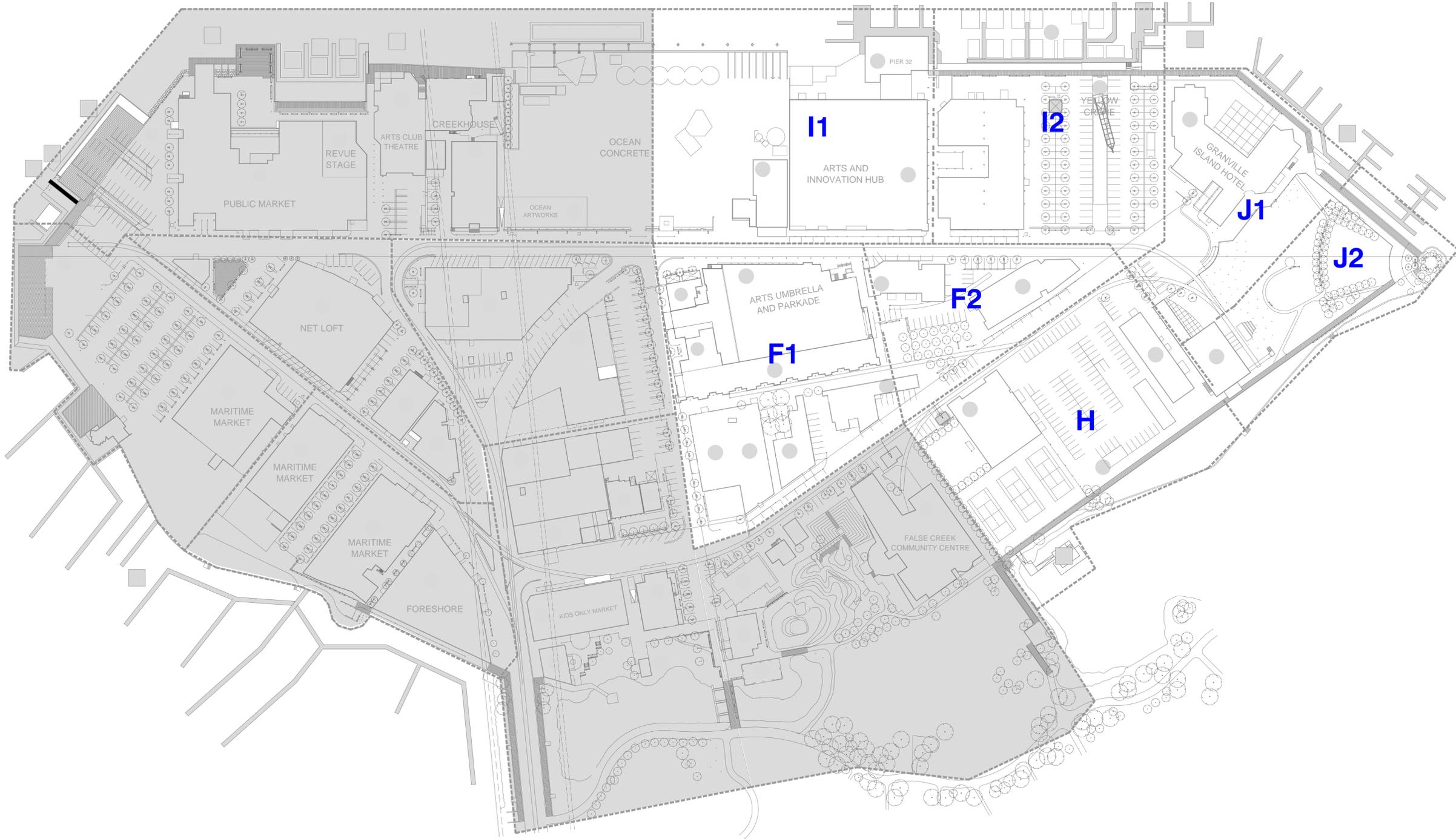
CONSULTANT



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LEGEND



SHADED AREA NOT IN CONTRACT

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Client/Project
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GRANVILLE ISLAND OFFICE
GRANVILLE ISLAND
PHASE 4 EXTERIOR LIGHTING UPGRADE

VANCOUVER BC CANADA

Title
ISLAND ZONE PLAN

Project No. 14440 Scale 1:1000

Drawn By DM Checked By KK/DN

Drawing No. E1.0 Date 07 OCT. 2020

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SEAL

LUMINAIRE SCHEDULE			PROJECT NO: 14440		
GRANVILLE ISLAND - PHASE 4			Date: OCTOBER 2020		
LANDSCAPE AND EXTERIOR					
Landscape Type	Nemetz Type	Description	Location	Lamp	Mounting
	AA	RAB DESIGN DVAKS-LED14-B-3000K-GL100-GD100CGS-3000K	THROUGHOUT	LED	SURFACE
	AB	RAB DESIGN DVBKS-LED14-B-3000K-GL100-GD100CGS-3000K	THROUGHOUT	LED	SURFACE/WALL
	BEL	RAB DESIGN DVAKS-LED14-B-3000K-GL100-GD100CGS-3000K	UNDER BENCH	LED	SURFACE (UNDER BENCH)
	BA	RAB DESIGN DVCKS-LED14-B-3000K-GL100	THROUGHOUT	LED	BOLLARD
	C	LITHONIA OLSR-DDB (EXISTING WHERE SHOWN UNLESS OTHERWISE NOTED)	THROUGHOUT	LED	SURFACE/WALL
	EA	ANTIQUE STREET LAMPS EML17-ST-49LED350MA-3K-GCF-MVOLT-R3-SF-DWH / EAJ4/1 (GALVANIZED STEEL) C/W POLE (HEIGHT TO MATCH PHASE 3)	THROUGHOUT	LED	FINAL POLE HEIGHT TO MATCH EXISTING ON SITE
	EAp	ANTIQUE STREET LAMPS EML17-ST-49LED350MA-3K-GCF-MVOLT-R3-SF-DWH / EAJ4WB (GALVANIZED STEEL) C/W 14' POLE	THROUGHOUT	LED	14' POLE
	EAp2	ANTIQUE STREET LAMPS EML17-ST-49LED350MA-3K-GCF-MVOLT-R3-SF-DWH / EAJ4/2 (GALVANIZED STEEL) C/W 14' POLE	PARK	LED	14' POLE
	EC	ANTIQUE STREET LAMPS EML17-ST-49LED350MA-3K-GCF-MVOLT-R3-SF-DWH / EAJ4WB (GALVANIZED STEEL)	THROUGHOUT	LED	SURFACE/WALL
	ECp	ANTIQUE STREET LAMPS EML17-ST-49LED350MA-3K-GCF-MVOLT-R3-SF-DWH / EAJ4WB (GALVANIZED STEEL)	THROUGHOUT	LED	SURFACE/WALL
	ED	ANTIQUE STREET LAMPS EML17-ST-49LED350MA-3K-GCF-MVOLT-R3-SF-DWH / EAJ4/2 (GALVANIZED STEEL) C/W POLE (HEIGHT TO MATCH PHASE 3), TO BE PROVIDED WITH PROVISIONS FOR IN POLE DIMMING/OCCUPANCY FOR ADDITION AT LATER DATE IF REQUIRED.	THROUGHOUT	LED	POLE
	EE	LED LAMP POST TO MATCH EXISTING. DETAILS TBC	PARKING LOT	LED	POLE
	GA	HOLOPHANE PHZ-18L-3K-20-P-K-W (MATCH EXISTING)	COVERED WALKWAY	LED	SURFACE/SUSPENDED CEILING
	GB	LUMARK XTOR6ARL-N	THROUGHOUT - FAÇADE	LED	SURFACE/WALL
	GC	LED RECESSED DOWNLIGHT. REPLACE LAMP ONLY WITH LED LAMP. LAMP SPECIFICATION TO BE APPROVED PRIOR TO ORDERING.	SOFFITS	LED	RECESSED/SOFFT
	GG	LUMENPULSE LBS-XXX-30K-FL-SI-NO-KN		LED	SURFACE
	GI	BOCK 6208-G16/E42/LAC01-13W-35K-120/GN23A-G16	SIGNAGE	LED	SURFACE/WALL
	GK	INVUE VFS-K-B20-LED-E1-NSR-B2-SG	PIER 32	LED	SURFACE/WALL
	GM	BOCK 110B-G16/LAC01-13W-30K-120V/640-50-G16/ST2-6-G16 C/W TYPE AA STYLE GLASS AND CAGE. MOUNTING ACCESSORIES TO SUIT.	THROUGHOUT - SOFFITS	LED	RECESSED/CEILING

ALL GM TO BE MODIFIED WITH RAB AND CAGE REFLECTOR.

NOTE:

- ALL FIXTURE FINISHES TO BE CONFIRMED WITH CMHC PRIOR TO ORDERING.
- ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL ALL CONCRETE POLE BASES.

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Client/Project

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 GRANVILLE ISLAND OFFICE
 GRANVILLE ISLAND
 PHASE 4 EXTERIOR LIGHTING UPGRADE

VANCOUVER BC CANADA

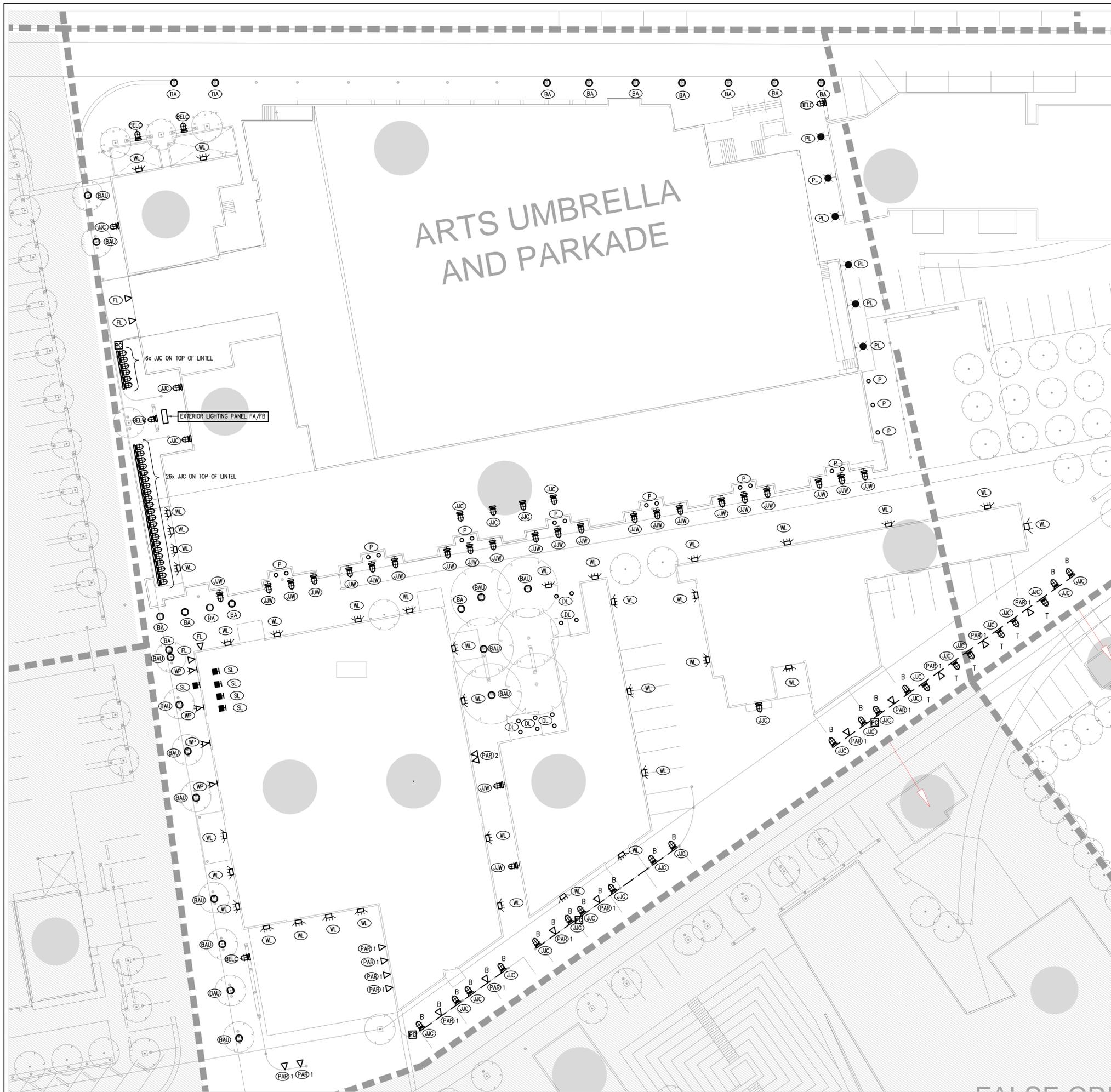
Title

SCHEDULES

Project No.	Scale
14440	N.T.S.

Drawn By	Checked By
DM	KK/DN

Drawnng NO.	Date
E1.2	04 DEC. 2020



ARTS UMBRELLA AND PARKADE

EXISTING LUMINAIRE SYMBOL SCHEDULE:

JJC	☐	- JAM JAR CEILING MOUNT
JJW	☐	- JAM JAR WALL MOUNT
BELC	☐	- UNDERBENCH JAM JAR CEILING MOUNT
BELW	☐	- UNDERBENCH JAM JAR WALL MOUNT
WP	☐	- WALL PACK EXISTING VARIOUS TYPES
FL	☐	- FLOODLIGHT VARIOUS TYPES
WL	☐	- WALL LIGHT VARIOUS ON RIGID PIPE
PAR1	☐	- SINGLE HEAD PAR LAMP HOLDER
PAR2	☐	- DOUBLE HEAD PAR LAMP HOLDER
BAU	○	- GRANVILLE ISLAND BOLLARD C/W UPLIGHT & DOWNLIGHT
BA	○	- GRANVILLE ISLAND BOLLARD C/W DOWNLIGHT ONLY
PL	☐	- POLELIGHT EXISTING
PC	☐	- PHOTOCELL
P	○	- POTLIGHTS VARIOUS TYPES
DL	○	- DOWNLIGHTS VARIOUS TYPES
T		- DENOTES MOUNTED ON TOP OF LINTEL
B		- DENOTES MOUNTED ON BOTTOM OF LINTEL

- GENERAL NOTES:**
- A. ALL TYPICAL GRANVILLE ISLAND BOLLARDS TO BE REVISED AS FOLLOWS:
 1. EXISTING TYPE 'BA' - REMOVE DOWNLIGHT RETURN TO CMHC AND INSTALL NEW SPECIFIED DOWNLIGHT FIXTURE.
 2. EXISTING TYPE 'BAU' - REMOVE UPLIGHT AND SHROUD. DISCARD SHROUD OFFSITE AND RETURN FIXTURE TO CMHC. INSTALL NEW SPECIFIED DOWNLIGHT FIXTURE. REWIRE AS REQUIRED.
 - B. ALL EXISTING UNDER BENCH FIXTURES (BELC, BELW) TO BE REPLACED WITH NEW SPECIFIED FIXTURES. RETURN OLD FIXTURES TO CMHC. REPLACE DAMAGED WIRING, CONDUIT AND OUTLET BOXES REQUIRED.
 - C. ALL LINTEL LIGHTING TO BE AS FOLLOWS:
 1. REMOVE AND DISCARD OFFSITE ALL TYPE 'PAR' FIXTURES. PATCH ALL UNUSED HOLES IN LINTELS.
 2. REMOVED ALL EXISTING TYPE 'JJC' FIXTURES AND RETURN TO CMHC. REVISE WIRING, CIRCUITRY AND CONTROLS TO SUIT NEW LAYOUTS. OBSERVE TOP OR BOTTOM MOUNTING NOTES. PATCH UNUSED HOLES REQUIRED.
 3. ALL LIGHTING FIXTURES NOT NOTED AS EXISTING TO REMAIN ARE TO BE REMOVED AND DISCARDED OFFSITE. ALL REDUNDANT WIRING, CONDUIT AND OUTLET BOXES ARE TO BE REMOVED AND BUILDING FINISHES TO BE REPAIRED TO MATCH SURROUNDING CONDITIONS.

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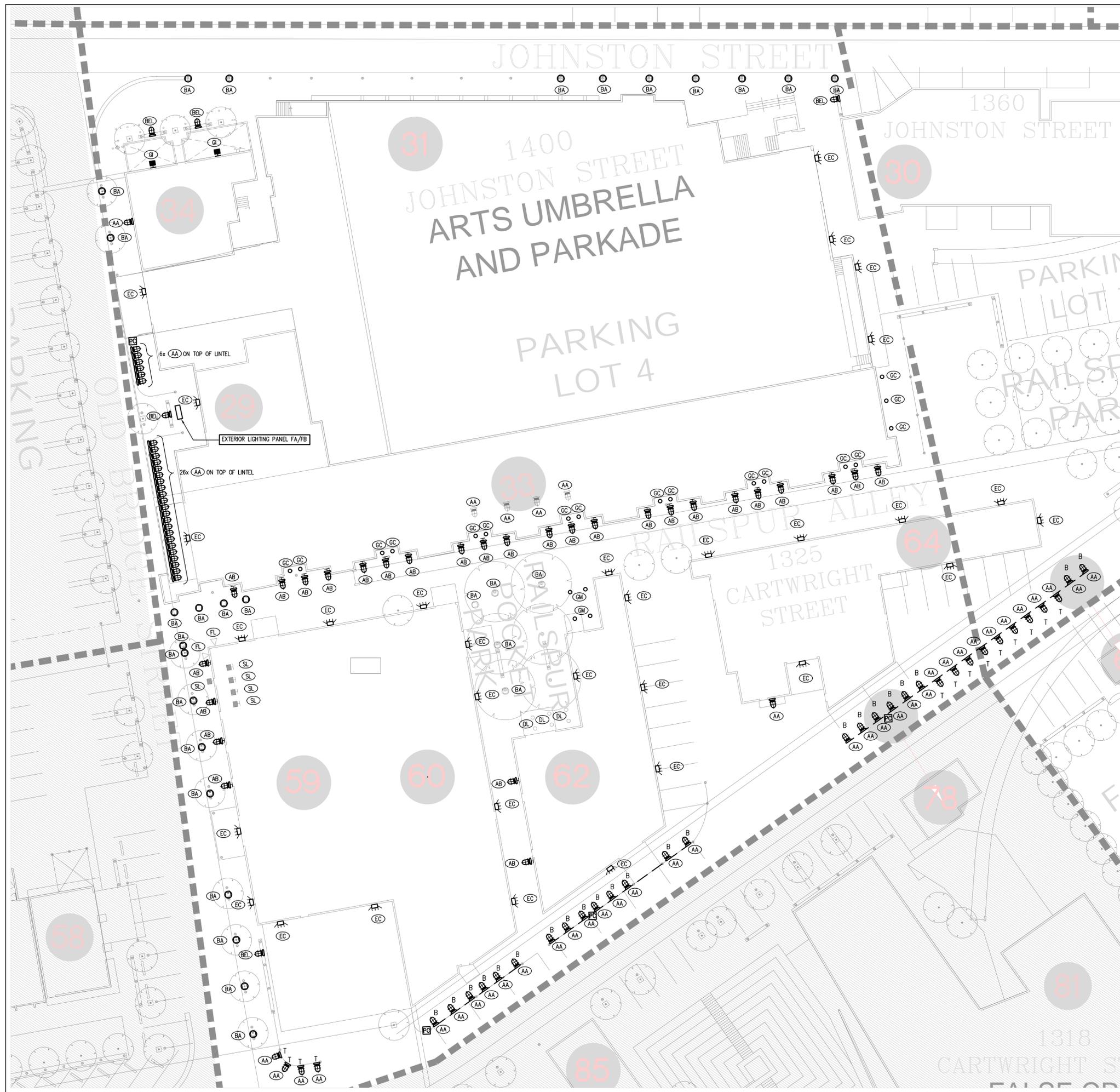
SEAL

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Client/Project
 CMHC SCHL
 GRANVILLE ISLAND OFFICE
 GRANVILLE ISLAND
 PHASE 4 EXTERIOR LIGHTING UPGRADE
 EXISTING CONDITIONS
 VANCOUVER BC CANADA

Title
ZONE F1 PLAN - EXISTING

Project No. 14440	Scale 1:SCALE
Drawn By DM	Checked By KK/DN
Drawing No.	Date 03 DEC. 2020



CONSULTANT



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NOTE:
 IN ADDITION TO CHANGES ON DRAWINGS, ALL
 LUMINAIRES TO BE REPLACED 1 FOR 1 AS PER
 LUMINAIRE SCHEDULE.

- GENERAL NOTES:**
- A. ALL LINTEL LIGHTS TO BE INSTALLED TO MATCH SPACING. ALL LIGHTS ARE TO FACE DOWN UNLESS OTHERWISE NOTED OR INVOLVE RUNNING OVER A VEHICULAR DRIVEWAY/PATH.
 - B. CONFIRM MOUNTING HEIGHTS OF ALL FIXTURES THAT ARE NOT INDICATED TO BE REPLACED AT EXISTING LOCATIONS.
 - C. REMOVE ALL REDUNDANT WIRING, CONDUIT AND OUTLET BOXES NOT REQUIRED FOR NEW LIGHTING LAYOUTS.
 - D. ENSURE ALL EXTERIOR LIGHTING IS CIRCUITED AND CONTROLLED BY CMHC DISTRIBUTION KIOSK PANELS. REVISE IF NECESSARY.
 - E. PROVIDE NEW WIRING AND RACEWAYS PER SPECIFICATIONS TO ACCOMMODATE NEW LIGHTING LAYOUTS.
 - F. ALL FIXTURES IN BOLD ARE NEW.
 - G. ALL DIMMED LIGHTS ARE TO REMAIN AS IS. NO REPLACEMENT REQUIRED.
 - H. LUMINAIRE TYPE 'EC' TO BE MOUNTED AT 20' AFF, IN SITUATIONS WHERE THIS IS NOT POSSIBLE TO EXISTING BUILDING HEIGHT, MOUNT LUMINAIRE AS HIGH AS POSSIBLE ON FACADE.

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Client/Project
 CMHC SCHL
 GRANVILLE ISLAND OFFICE
 GRANVILLE ISLAND
 PHASE 4 EXTERIOR LIGHTING UPGRADE

VANCOUVER BC CANADA

Title
 ZONE F1 PLAN

Project No. 14440	Scale 1:250
Drawn By DM	Checked By KK/DN
Drawing NO. E2.1	Date 18 DEC. 2020



EXISTING LUMINAIRE SYMBOL SCHEDULE:

- JJC - JAM JAR CEILING MOUNT
- JWW - JAM JAR WALL MOUNT
- BELC - UNDERBENCH JAM JAR CEILING MOUNT
- WP - WALL PACK EXISTING VARIOUS TYPES
- WL - WALL LIGHT VARIOUS ON RIGID PIPE
- PAR1 - SINGLE HEAD PAR LAMP HOLDER
- BAU - GRANVILLE ISLAND BOLLARD C/W UPLIGHT & DOWNLIGHT
- BA - GRANVILLE ISLAND BOLLARD C/W DOWNLIGHT ONLY
- PL - POLELIGHT EXISTING
- EA - NEW POLE
- PC - PHOTOCELL
- T - DENOTES MOUNTED ON TOP OF LINTEL
- B - DENOTES MOUNTED ON BOTTOM OF LINTEL

GENERAL NOTES:

- A. ALL TYPICAL GRANVILLE ISLAND BOLLARDS TO BE REVISED AS FOLLOWS:
 1. EXISTING TYPE 'BA' - REMOVE DOWNLIGHT RETURN TO CMHC AND INSTALL NEW SPECIFIED DOWNLIGHT FIXTURE.
 2. EXISTING TYPE 'BAU' - REMOVE UPLIGHT AND SHROUD. DISCARD SHROUD OFFSITE AND RETURN FIXTURE TO CMHC. INSTALL NEW SPECIFIED DOWNLIGHT FIXTURE. REWIRE AS REQUIRED.
- B. ALL EXISTING UNDER BENCH FIXTURES (BELC, BELW) TO BE REPLACED WITH NEW SPECIFIED FIXTURES. RETURN OLD FIXTURES TO CMHC. REPLACE DAMAGED WIRING, CONDUIT AND OUTLET BOXES REQUIRED.
- C. ALL LINTEL LIGHTING TO BE AS FOLLOWS:
 1. REMOVE AND DISCARD OFFSITE ALL TYPE 'PAR' FIXTURES. PATCH ALL UNUSED HOLES IN LINTELS.
 2. REMOVED ALL EXISTING TYPE 'JJC' FIXTURES AND RETURN TO CMHC. REVISE WIRING, CIRCUITRY AND CONTROLS TO SUIT NEW LAYOUTS. OBSERVE TOP OR BOTTOM MOUNTING NOTES. PATCH UNUSED HOLES REQUIRED.
 3. ALL LIGHTING FIXTURES NOT NOTED AS EXISTING TO REMAIN ARE TO BE REMOVED AND DISCARDED OFFSITE. ALL REDUNDANT WIRING, CONDUIT AND OUTLET BOXES ARE TO BE REMOVED AND BUILDING FINISHES TO BE REPAIRED TO MATCH SURROUNDING CONDITIONS.

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Client/Project
CMHC SCHL
GRANVILLE ISLAND OFFICE
GRANVILLE ISLAND
PHASE 4 EXTERIOR LIGHTING UPGRADE
EXISTING CONDITION
VANCOUVER BC CANADA

Title
ZONE F2 PLAN - EXISTING

Project No. 14440	Scale 1:1:250
Drawn By DM	Checked By KK/DN
Drawnng NO.	Date 03 DEC. 2020



- GENERAL NOTES:**
- A. ALL LINTEL LIGHTS TO BE INSTALLED TO MATCH SPACING. ALL LIGHTS ARE TO FACE DOWN UNLESS OTHERWISE NOTED OR INVOLVE RUNNING OVER A VEHICULAR DRIVEWAY/PATH.
 - B. CONFIRM MOUNTING HEIGHTS OF ALL FIXTURES THAT ARE NOT INDICATED TO BE REPLACED AT EXISTING LOCATIONS.
 - C. REMOVE ALL REDUNDANT WIRING, CONDUIT AND OUTLET BOXES NOT REQUIRED FOR NEW LIGHTING LAYOUTS.
 - D. ENSURE ALL EXTERIOR LIGHTING IS CIRCUITED AND CONTROLLED BY CMHC DISTRIBUTION KIOSK PANELS. REVISE IF NECESSARY.
 - E. PROVIDE NEW WIRING AND RACEWAYS PER SPECIFICATIONS TO ACCOMMODATE NEW LIGHTING LAYOUTS.
 - F. ALL FIXTURES IN BOLD ARE NEW.
 - G. ALL DIMMED LIGHTS ARE TO REMAIN AS IS. NO REPLACEMENT REQUIRED.
 - H. LUMINAIRE TYPE 'EC' TO BE MOUNTED AT 20' AFF, IN SITUATIONS WHERE THIS IS NOT POSSIBLE TO EXISTING BUILDING HEIGHT, MOUNT LUMINAIRE AS HIGH AS POSSIBLE ON FACADE.

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GRANVILLE ISLAND OFFICE
GRANVILLE ISLAND
PHASE 4 EXTERIOR LIGHTING UPGRADE

VANCOUVER BC CANADA
 Title
ZONE F2 PLAN

Project No. 14440	Scale 1:1:250
Drawn By DM	Checked By KK/DN
Drawnng NO.	Date 18 DEC. 2020



EXISTING LUMINAIRE SYMBOL SCHEDULE:

JJC	☐	- JAM JAR CEILING MOUNT
JJW	☐	- JAM JAR WALL MOUNT
BELC	☐	- UNDERBENCH JAM JAR CEILING MOUNT
W	☐	- WALL MOUNT LIGHT FIXTURE
WP	☐	- WALL PACK EXISTING VARIOUS TYPES
FL	☐	- FLOODLIGHT VARIOUS TYPES
WL	☐	- WALL LIGHT VARIOUS ON RIGID PIPE
PAR 2	☐	- DOUBLE HEAD PAR LAMP HOLDER
BAU	○	- GRANVILLE ISLAND BOLLARD C/W UPLIGHT & DOWNLIGHT
BA	○	- GRANVILLE ISLAND BOLLARD C/W DOWNLIGHT ONLY
PL	☐	- POLE LIGHT EXISTING
EC	☐	- WALL MOUNTED 49 LED LUMINAIRE C/W SHEPHERD HOOK STYLE ARM WALL BRACKET GALVANIZED STEEL
EA	☐	- NEW POLE
		- DENOTES MOUNTED ON BOTTOM OF LINTEL

- GENERAL NOTES:**
- A. ALL TYPICAL GRANVILLE ISLAND BOLLARDS TO BE REVISED AS FOLLOWS:
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 2. EXISTING TYPE 'BAU' - REMOVE UPLIGHT AND SHROUD. DISCARD SHROUD OFFSITE AND RETURN FIXTURE TO CMHC. INSTALL NEW SPECIFIED DOWNLIGHT FIXTURE. REWIRE AS REQUIRED.
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 - C. ALL LINTEL LIGHTING TO BE AS FOLLOWS:
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CONSULTANT
NEMETZ (S/A) & ASSOCIATES LTD.
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SEAL

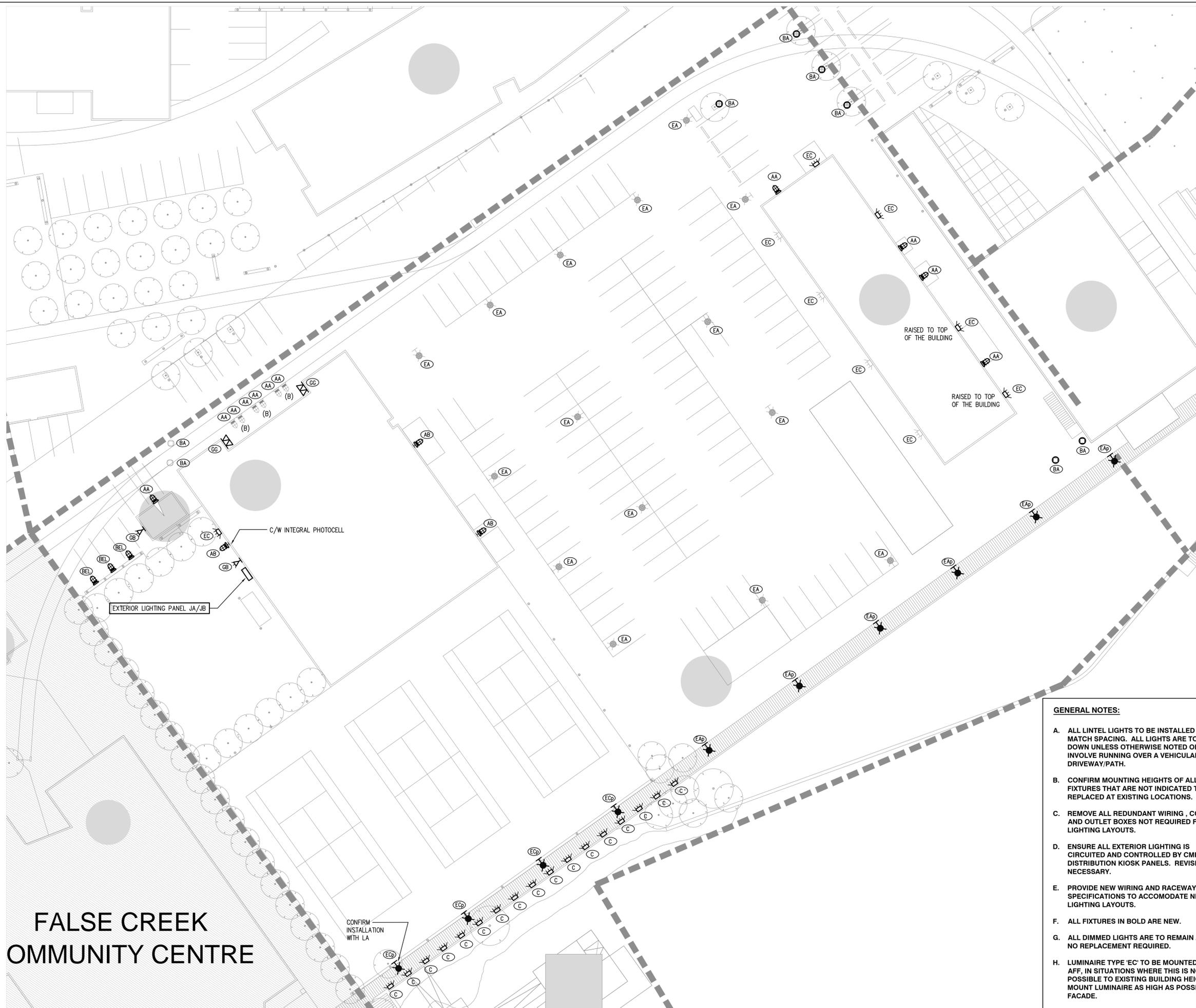
FALSE CREEK
 COMMUNITY CENTRE

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 GRANVILLE ISLAND
 PHASE 4 EXTERIOR LIGHTING UPGRADE
 EXISTING CONDITION
 VANCOUVER BC CANADA

Title
 ZONE H PLAN - EXISTING

Project No. 14440	Scale 1:1:250
Drawn By DM	Checked By KK/DN
Drawing NO. E4.0	Date 03 DEC. 2020



GENERAL NOTES:

- A. ALL LINTEL LIGHTS TO BE INSTALLED TO MATCH SPACING. ALL LIGHTS ARE TO FACE DOWN UNLESS OTHERWISE NOTED OR INVOLVE RUNNING OVER A VEHICULAR DRIVEWAY/PATH.
- B. CONFIRM MOUNTING HEIGHTS OF ALL FIXTURES THAT ARE NOT INDICATED TO BE REPLACED AT EXISTING LOCATIONS.
- C. REMOVE ALL REDUNDANT WIRING, CONDUIT AND OUTLET BOXES NOT REQUIRED FOR NEW LIGHTING LAYOUTS.
- D. ENSURE ALL EXTERIOR LIGHTING IS CIRCUITED AND CONTROLLED BY CMHC DISTRIBUTION KIOSK PANELS. REVISE IF NECESSARY.
- E. PROVIDE NEW WIRING AND RACEWAYS PER SPECIFICATIONS TO ACCOMMODATE NEW LIGHTING LAYOUTS.
- F. ALL FIXTURES IN BOLD ARE NEW.
- G. ALL DIMMED LIGHTS ARE TO REMAIN AS IS. NO REPLACEMENT REQUIRED.
- H. LUMINAIRE TYPE 'EC' TO BE MOUNTED AT 20' AFF, IN SITUATIONS WHERE THIS IS NOT POSSIBLE TO EXISTING BUILDING HEIGHT, MOUNT LUMINAIRE AS HIGH AS POSSIBLE ON FACADE.

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1	ISSUED FOR COORDINATION	DM	2020.11.05
No.	Issued	By	yy/mm/dd

Client/Project
CMHC SCHL
GRANVILLE ISLAND OFFICE
GRANVILLE ISLAND
PHASE 4 EXTERIOR LIGHTING UPGRADE

VANCOUVER BC CANADA

Title
ZONE H PLAN

Project No.
14440

Scale
1:1:250 M

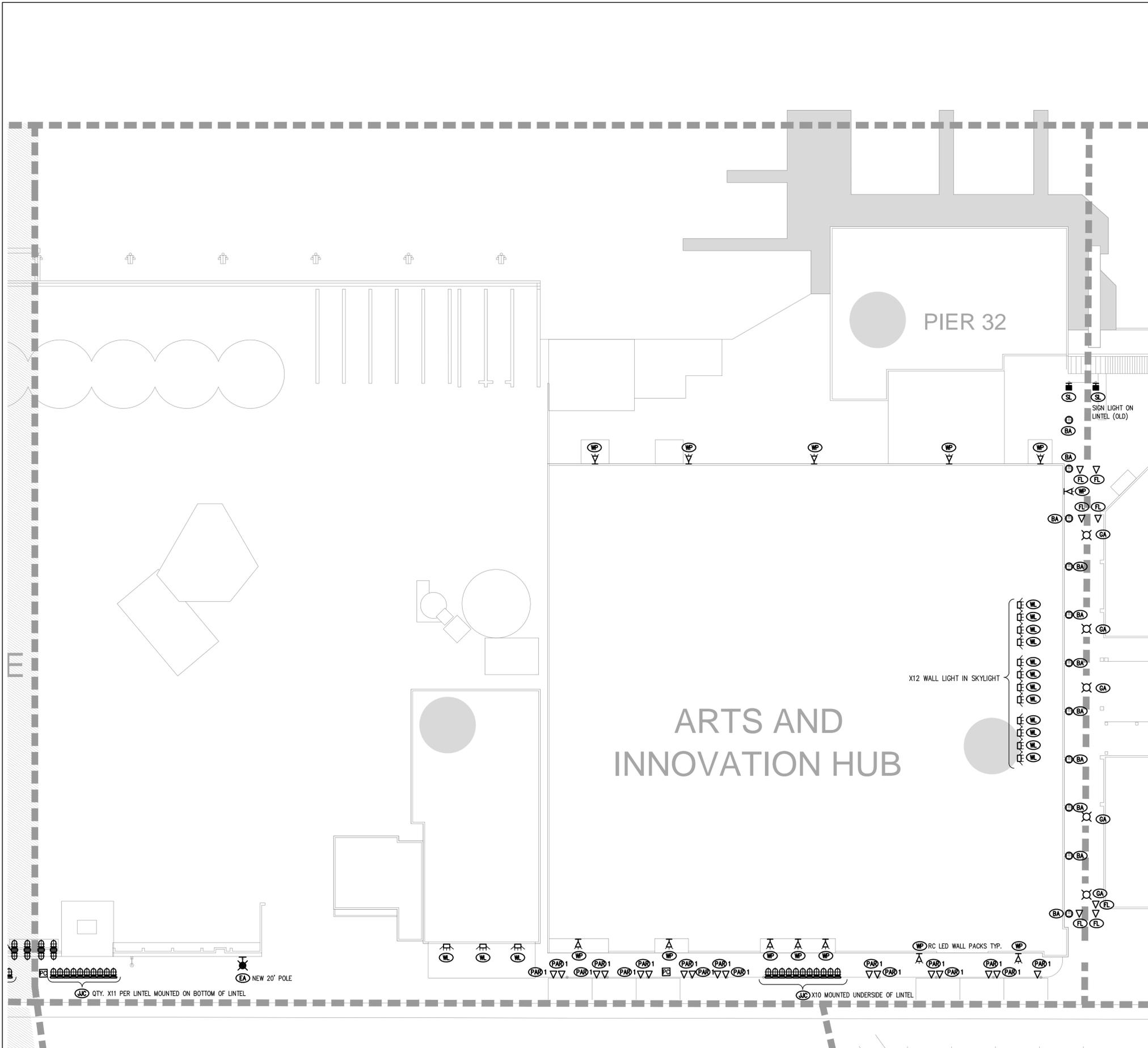
Drawn By
DM

Checked By
KK/DN

Drawing NO.
E4.1

Date
18 DEC., 2020

**FALSE CREEK
COMMUNITY CENTRE**



EXISTING LUMINAIRE SYMBOL SCHEDULE:

JJC	DEP	-	JAM JAR CEILING MOUNT
JWW	DEP	-	JAM JAR WALL MOUNT
BELC	DEP	-	UNDERBENCH JAM JAR CEILING MOUNT
BELW	DEP	-	UNDERBENCH JAM JAR WALL MOUNT
WP	Y	-	WALL PACK EXISTING VARIOUS TYPES
FL	▷	-	FLOODLIGHT VARIOUS TYPES
WL	⊥	-	WALL LIGHT VARIOUS ON RIGID PIPE
PAR1	▽	-	SINGLE HEAD PAR LAMP HOLDER
PAR2	▽▽	-	DOUBLE HEAD PAR LAMP HOLDER
BAU	○	-	GRANVILLE ISLAND BOLLARD C/W UPLIGHT & DOWNLIGHT
BA	○	-	GRANVILLE ISLAND BOLLARD C/W DOWNLIGHT ONLY
PL	⊙	-	POLELIGHT EXISTING
EA	⊙	-	POLELIGHT NEW SPEC
PC	⊙	-	PHOTOCELL
GA	⊙	-	HOLOPHANE
P	○	-	POTLIGHT VARIOUS
SL	⊙	-	SIGNLIGHT ON RIGID PIPE

GENERAL NOTES:

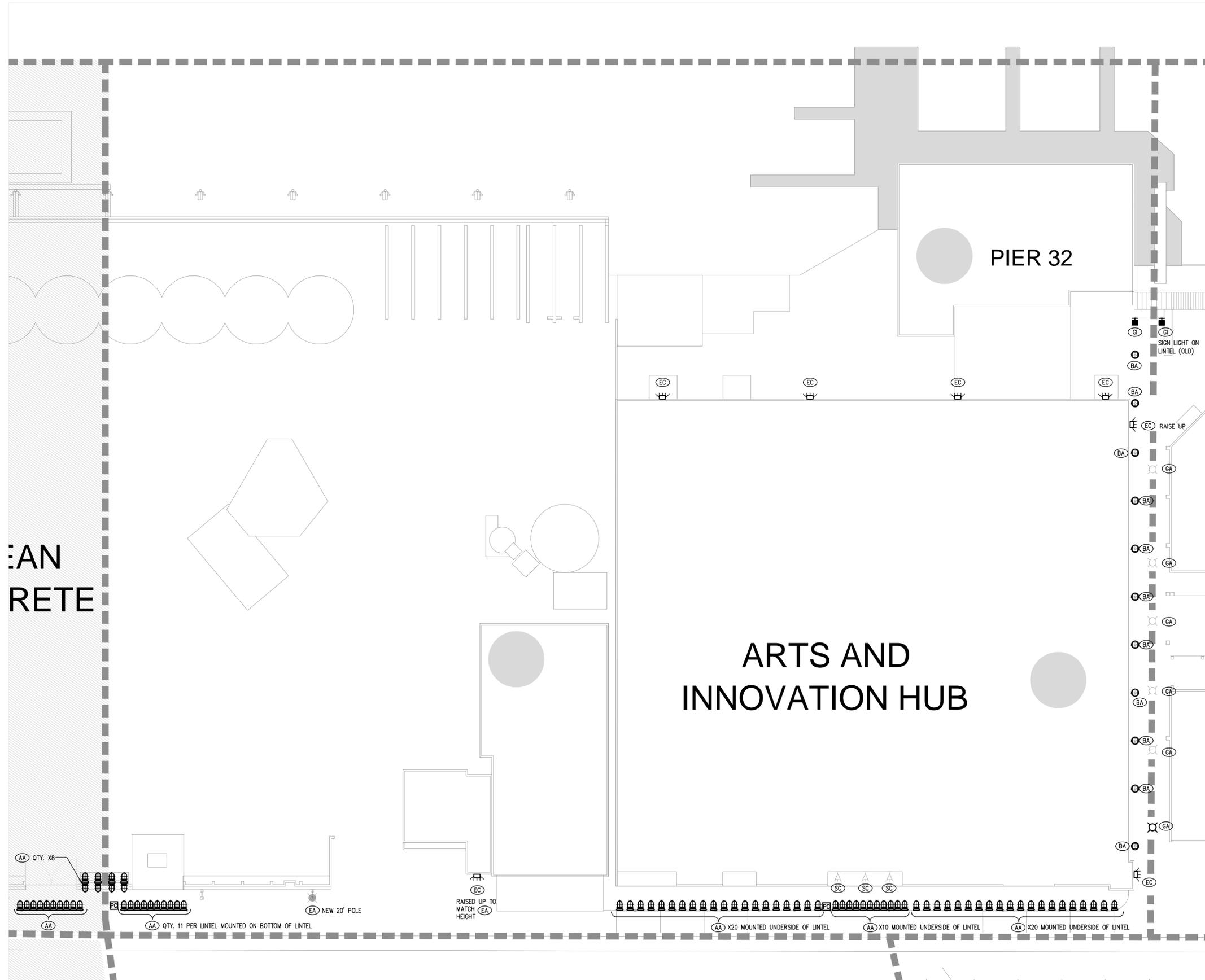
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 - EXISTING TYPE 'BA' - REMOVE DOWNLIGHT RETURN TO CMHC AND INSTALL NEW SPECIFIED DOWNLIGHT FIXTURE.
 - EXISTING TYPE 'BAU' - REMOVE UPLIGHT AND SHROUD. DISCARD SHROUD OFFSITE AND RETURN FIXTURE TO CMHC. INSTALL NEW SPECIFIED DOWNLIGHT FIXTURE. REWIRE AS REQUIRED.
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Client/Project
CMHC SCHL
GRANVILLE ISLAND OFFICE
GRANVILLE ISLAND
PHASE 4 EXTERIOR LIGHTING UPGRADE
EXISTING CONDITION
VANCOUVER BC CANADA

Title
ZONE I PLAN - EXISTING

Project No. 14440	Scale 1:1,250 M
Drawn By DM	Checked By KK/DN
Drawing No. E5.0	Date 03. DEC.2020



- GENERAL NOTES:**
- A. ALL LINTEL LIGHTS TO BE INSTALLED TO MATCH SPACING. ALL LIGHTS ARE TO FACE DOWN UNLESS OTHERWISE NOTED OR INVOLVE RUNNING OVER A VEHICULAR DRIVEWAY/PATH.
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Client/Project
CMHC SCHL
GRANVILLE ISLAND OFFICE
GRANVILLE ISLAND
PHASE 4 EXTERIOR LIGHTING UPGRADE

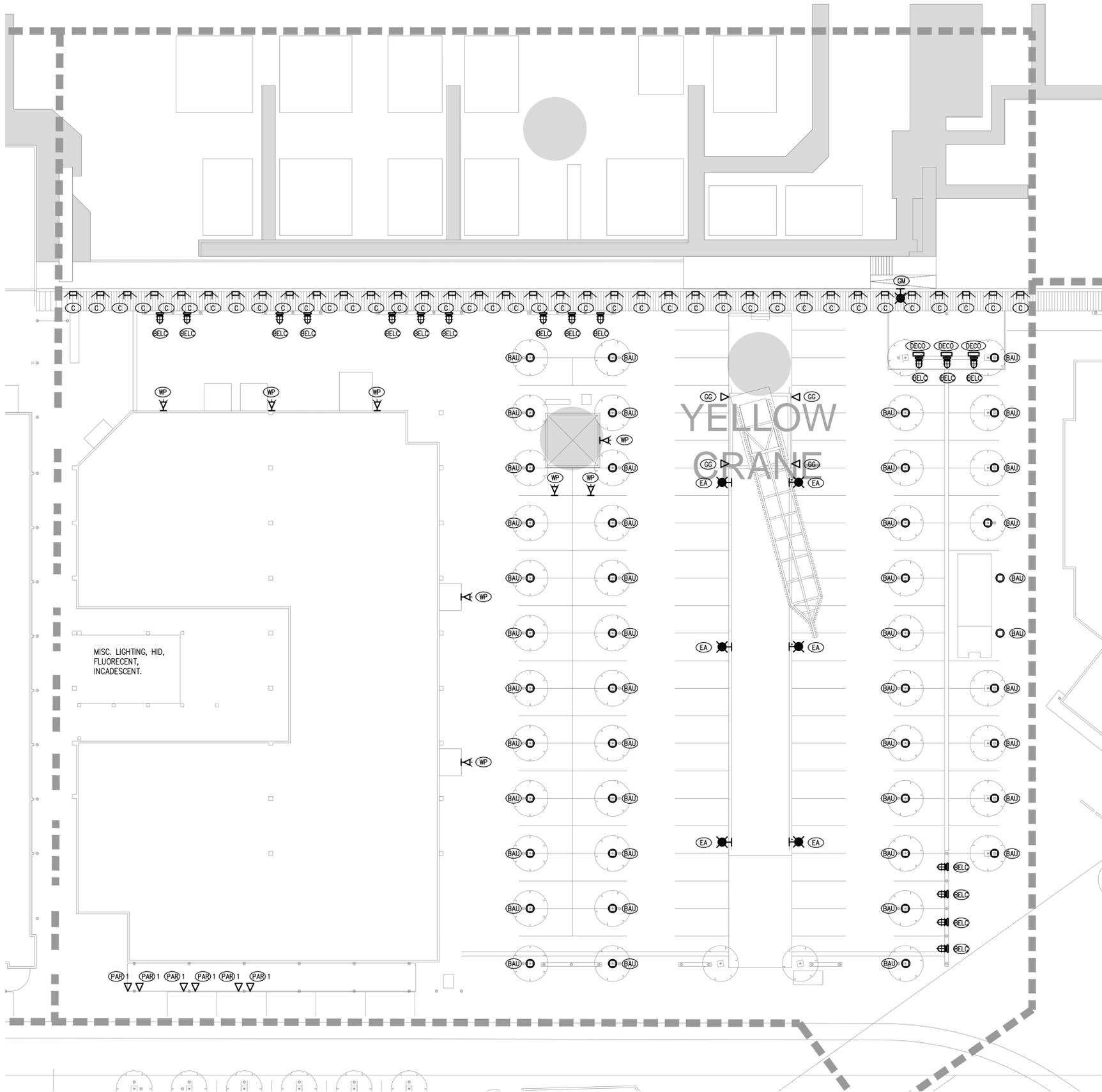
VANCOUVER BC CANADA

Title
ZONE I1PLAN

Project No. 14440 Scale 1:250 M

Drawn By DM Checked By KK/DN

Drawing NO. Date 18. DEC. 2020



EXISTING LUMINAIRE SYMBOL SCHEDULE:

- UNDERBENCH JAM JAR CEILING MOUNT
- WALL PACK EXISTING VARIOUS TYPES
- SINGLE HEAD PAR LAMP HOLDER
- GRANVILLE ISLAND BOLLARD C/W UPLIGHT & DOWNLIGHT
- DECORATIVE LIGHT BOX
- POLE MOUNTED 49 LED LUMINAIRE NEW SPEC.
- 14W LED WIDE FLOOD LIGHT LUMEN PULSE NEW SPEC.
- STEPLIGHTS

GENERAL NOTES:

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MISC. LIGHTING, HID, FLUORESCENT, INCANDESCENT.

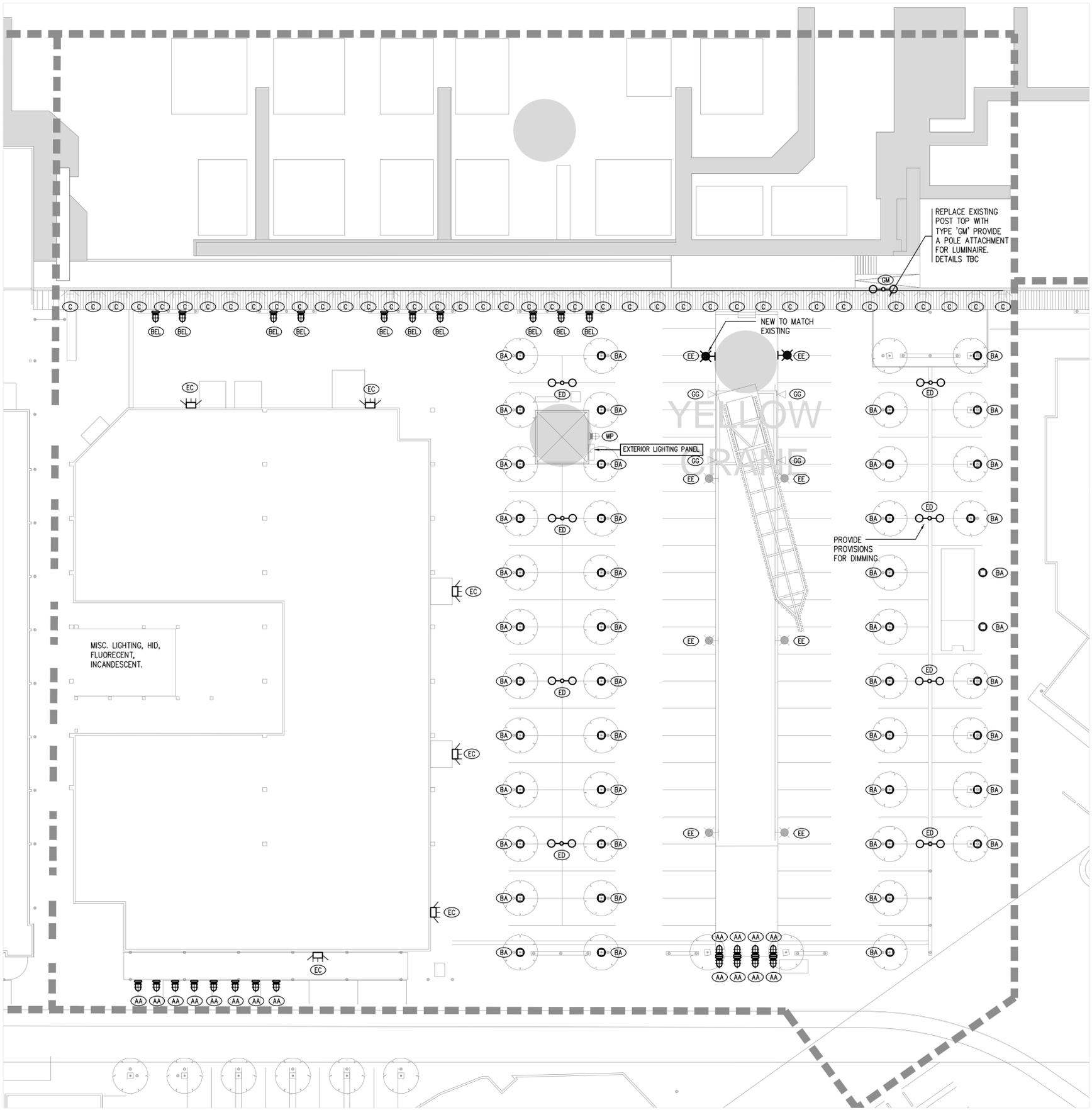
YELLOW CRANE

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CMHC SCHL
GRANVILLE ISLAND OFFICE
GRANVILLE ISLAND
PHASE 4 EXTERIOR LIGHTING UPGRADE
EXISTING CONDITION
VANCOUVER BC CANADA

Title
ZONE I2 PLAN - EXISTING

Project No. 14440	Scale 1:1:250 M
Drawn By DM	Checked By KK/DN
Drawing NO. E6.0	Date 03 DEC. 2020



- GENERAL NOTES:**
- A. ALL LINTEL LIGHTS TO BE INSTALLED TO MATCH SPACING. ALL LIGHTS ARE TO FACE DOWN UNLESS OTHERWISE NOTED OR INVOLVE RUNNING OVER A VEHICULAR DRIVEWAY/PATH.
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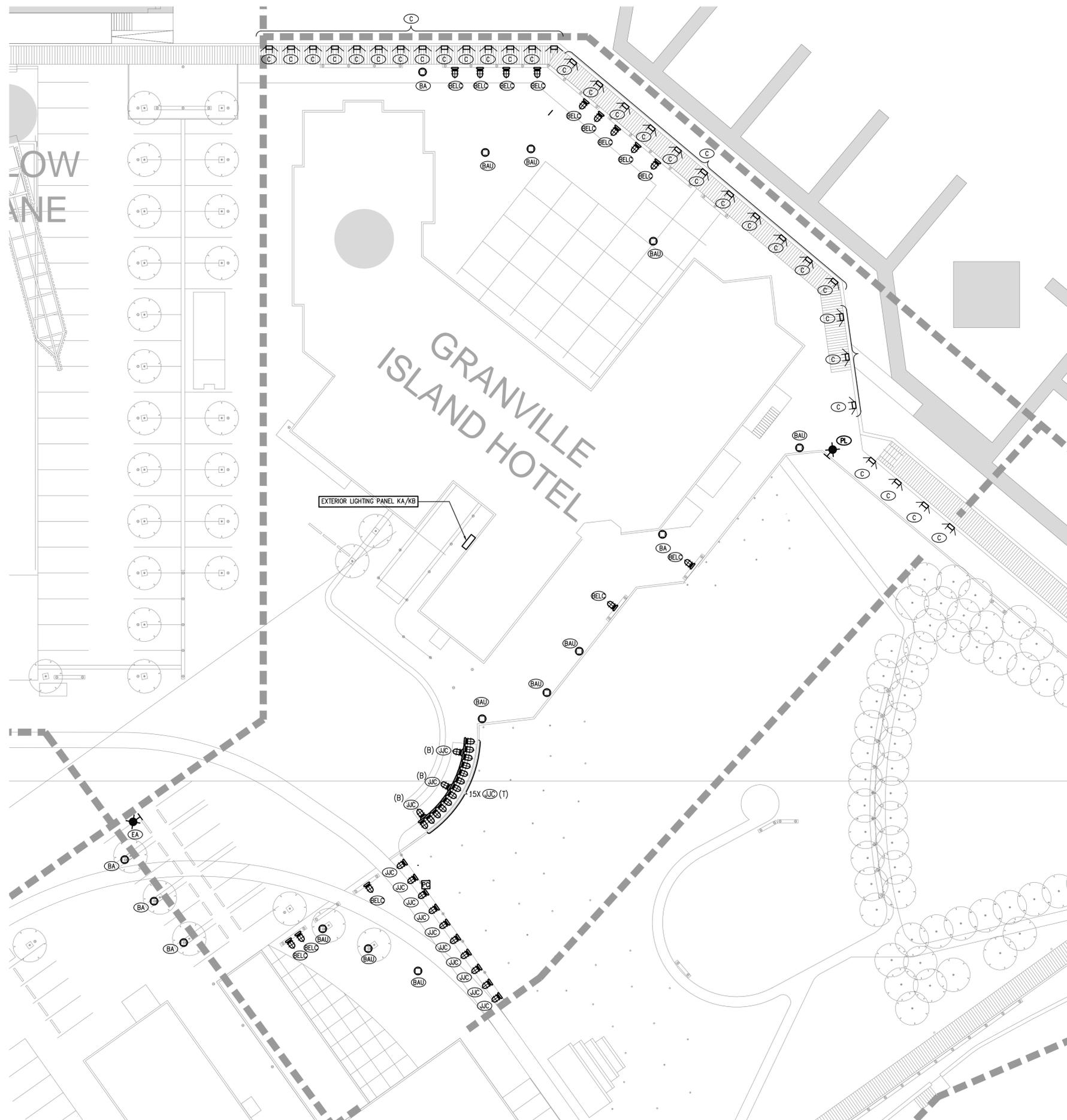
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Client/Project
CMHC SCHL
GRANVILLE ISLAND OFFICE
GRANVILLE ISLAND
PHASE 4 EXTERIOR LIGHTING UPGRADE

VANCOUVER BC CANADA

Title
ZONE I2 PLAN

Project No. 14440	Scale 1:250 M
Drawn By DM	Checked By KK/DN
Drawnng NO.	Date 18 DEC. 2020



EXISTING LUMINAIRE SYMBOL SCHEDULE:

	- UNDERBENCH JAM JAR CEILING MOUNT
	- WALL PACK EXISTING VARIOUS TYPES
	- SINGLE HEAD PAR LAMP HOLDER
	- GRANVILLE ISLAND BOLLARD C/W UPLIGHT & DOWNLIGHT
	- DECORATIVE LIGHT BOX
	- POLE MOUNTED 49 LED LUMINAIRE NEW SPEC.
	- 14W LED WIDE FLOOD LIGHT LUMEN PULSE NEW SPEC.
	- STEPLIGHTS
	- POLELIGHT EXISTING
	- PHOTOCELL
(T)	- DENOTES MOUNTED ON TOP OF LINTEL
(B)	- DENOTES MOUNTED ON BOTTOM OF LINTEL

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CONSULTANT
NEMETZ (S/A) & ASSOCIATES LTD.
 CONSULTING ENGINEERS
 2009 WEST 4TH AVENUE, VANCOUVER, BC V6J1N3
 TEL: (604) 736-6562 FAX: (604) 736-9805
 214 KING ST. WEST, SUITE 214 TORONTO, ON M5H3S6
 TEL: (416) 253-0086 FAX: (416) 253-2085
 525 11th AVENUE SW, SUITE 305, CALGARY, AB T2R 0C9
 TEL: (403) 294-9027 FAX: (403) 294-9028
 E-MAIL: ENGINEERS@NEMETZ.COM

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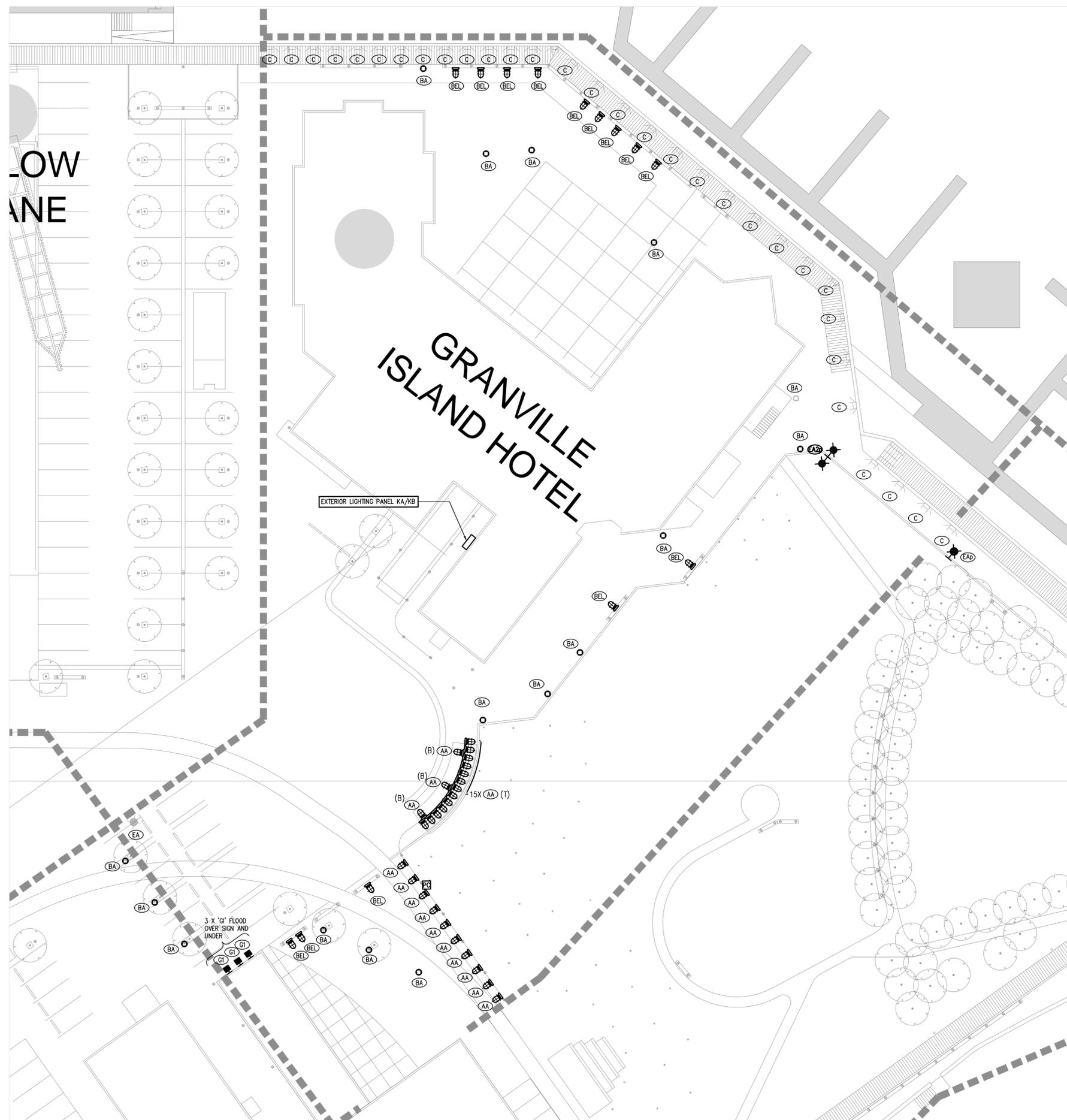
Client/Project
 CMHC SCHL
 GRANVILLE ISLAND OFFICE
 GRANVILLE ISLAND
 PHASE 4 EXTERIOR LIGHTING UPGRADE
 EXISTING CONDITION
 VANCOUVER BC CANADA

Title
 ZONE J1 PLAN - EXISITNG

Project No. 14440	Scale 1:1:250 M
Drawn By DM	Checked By KK/DN
Drawng No.	Date 03 DEC. 2020

E7.0

- GENERAL NOTES:**
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Client/Project
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 GRANVILLE ISLAND
 PHASE 4 EXTERIOR LIGHTING UPGRADE

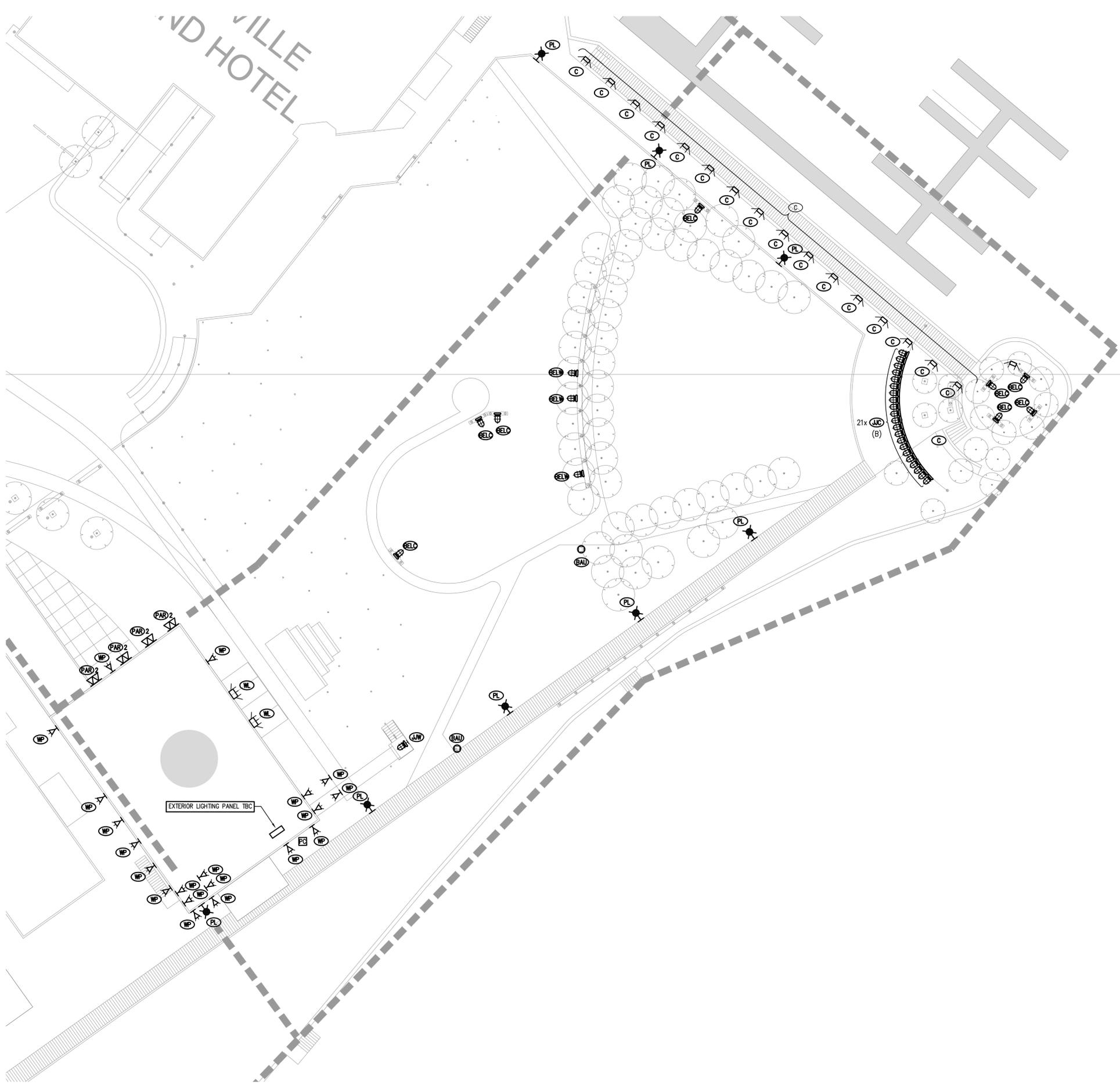
VANCOUVER BC CANADA

Title
 ZONE J1 PLAN

Project No. 14440 Scale 1:250 M

Drawn By DM Checked By KK/DN

Drawing NO. Date 18 DEC. 2020



EXISTING LUMINAIRE SYMBOL SCHEDULE:

	- JAM JAR CEILING MOUNT
	- UNDERBENCH JAM JAR CEILING MOUNT
	- UNDERBENCH JAM JAR WALL MOUNT
	- WALL PACK EXISTING VARIOUS TYPES
	- WALL LIGHT VARIOUS ON RIGID PIPE
	- DOUBLE HEAD PAR LAMP HOLDER
	- GRANVILLE ISLAND BOLLARD C/W UPLIGHT & DOWNLIGHT
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	- PHOTOCCELL
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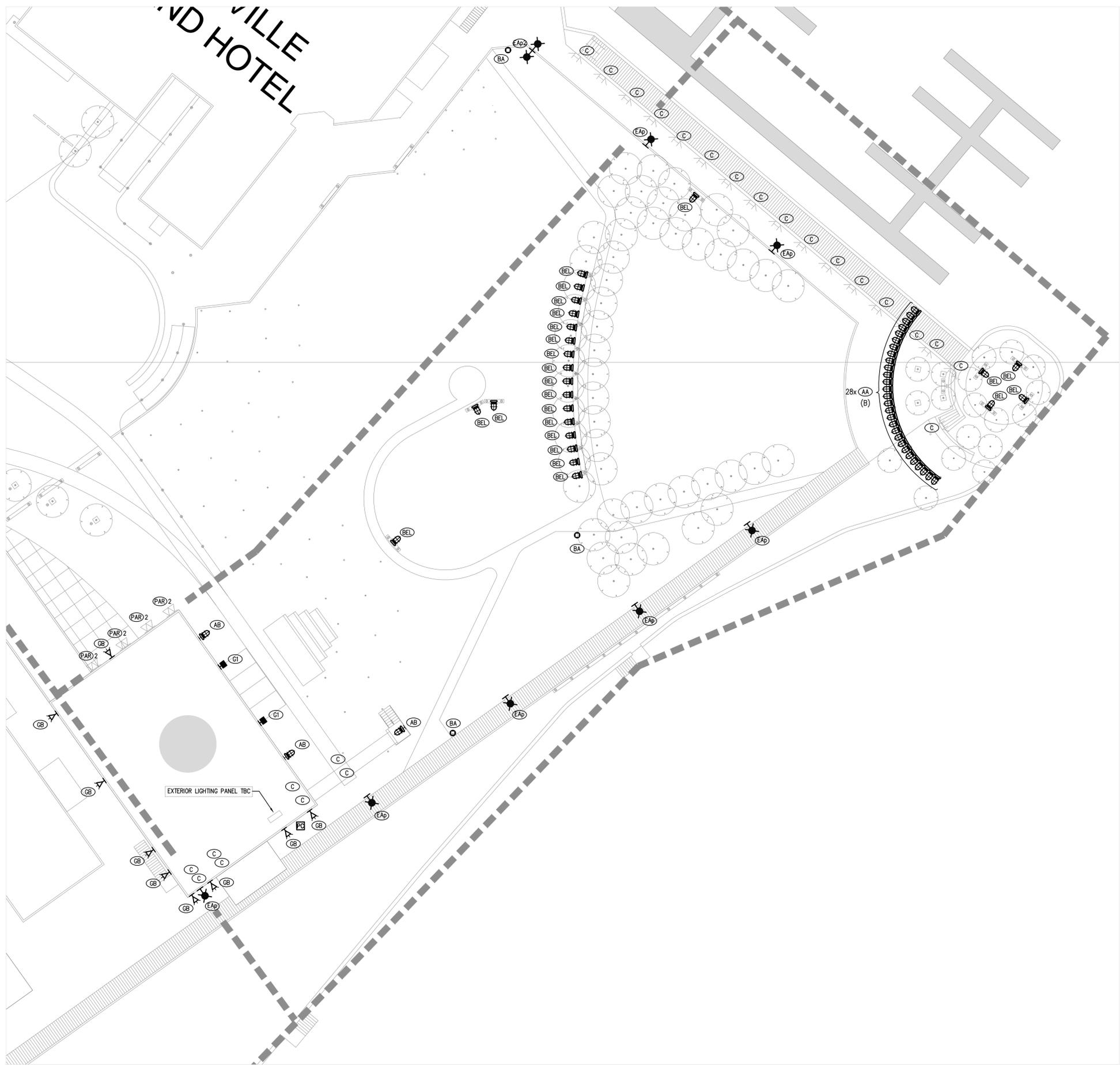
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Client/Project
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 GRANVILLE ISLAND OFFICE
 GRANVILLE ISLAND
 PHASE 4 EXTERIOR LIGHTING UPGRADE
 EXISTING CONDITION
 VANCOUVER BC CANADA

Title
 ZONE J2 PLAN - EXISTING

Project No. 14440	Scale 1:1:250
Drawn By DM	Checked By KK/DN
Drawnng NO. E8.0	Date 03 DEC. 2020



- GENERAL NOTES:**
- A. ALL LINTEL LIGHTS TO BE INSTALLED TO MATCH SPACING. ALL LIGHTS ARE TO FACE DOWN UNLESS OTHERWISE NOTED OR INVOLVE RUNNING OVER A VEHICULAR DRIVEWAY/PATH.
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Client/Project
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 GRANVILLE ISLAND OFFICE
 GRANVILLE ISLAND
 PHASE 4 EXTERIOR LIGHTING UPGRADE

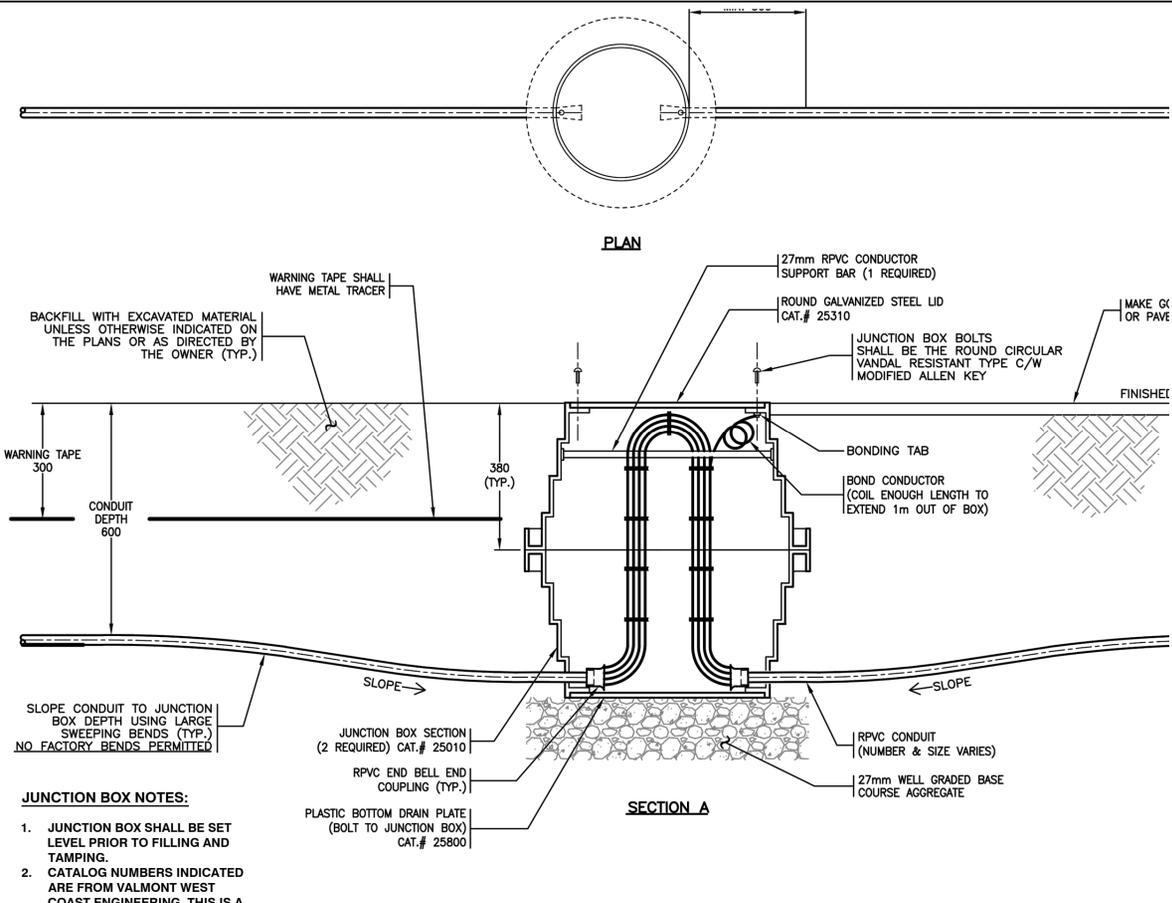
VANCOUVER BC CANADA

Title
 ZONE J2 PLAN

Project No. 14440	Scale 1:250 M
Drawn By DM	Checked By KK/DN
Drawing NO. E8.1	Date 18 DEC. 2020

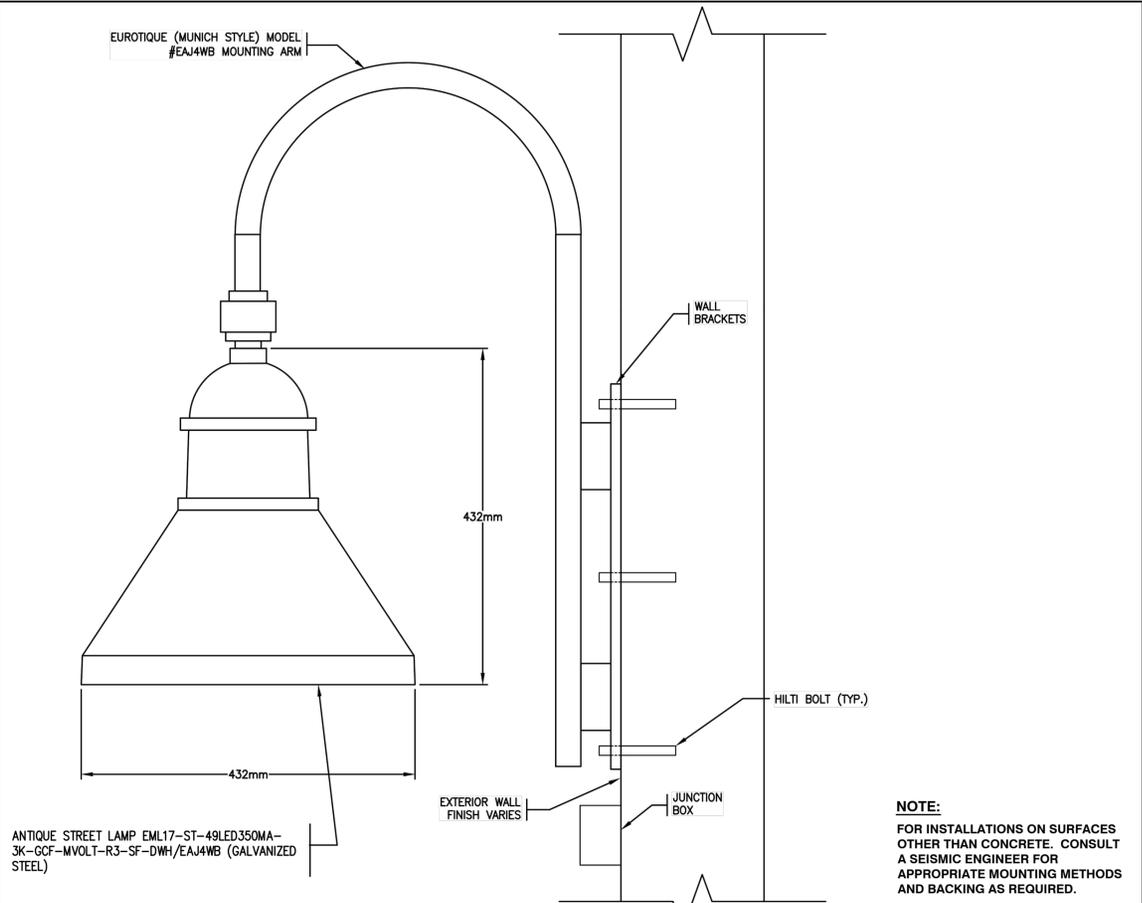
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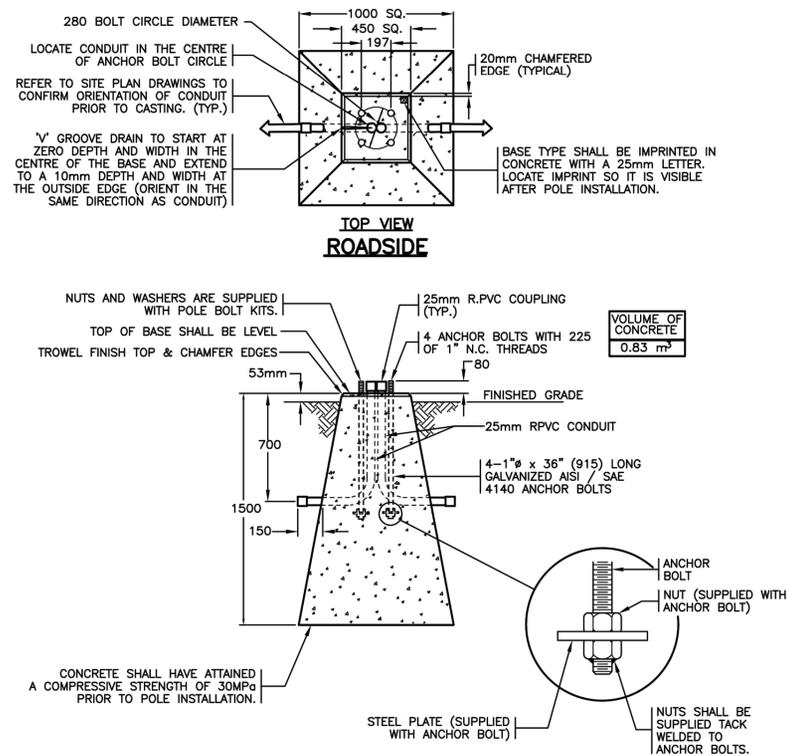
JUNCTION BOX NOTES:
1. JUNCTION BOX SHALL BE SET LEVEL PRIOR TO FILLING AND TAMPING.
2. CATALOG NUMBERS INDICATED ARE FROM VALMONT WEST COAST ENGINEERING. THIS IS A PRE-APPROVED PRODUCT. SUBMIT SHOP DRAWING SEVEN (7) PRIOR TO CLOSE OF TENDER FOR CONSIDERATION OF ALTERNATIVES.

1 TYPE 10 JUNCTION BOX DETAIL
E9.0 SCALE: N.T.S.

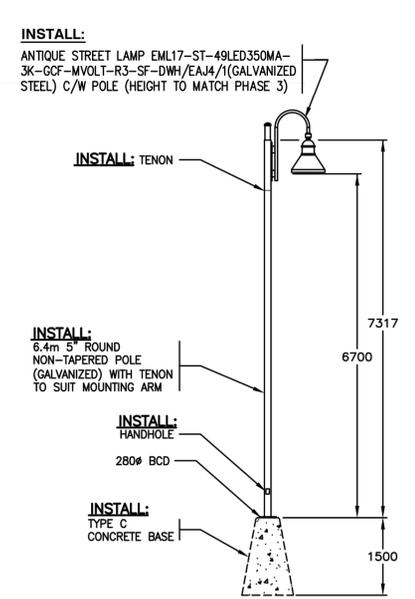


NOTE:
FOR INSTALLATIONS ON SURFACES OTHER THAN CONCRETE. CONSULT A SEISMIC ENGINEER FOR APPROPRIATE MOUNTING METHODS AND BACKING AS REQUIRED.

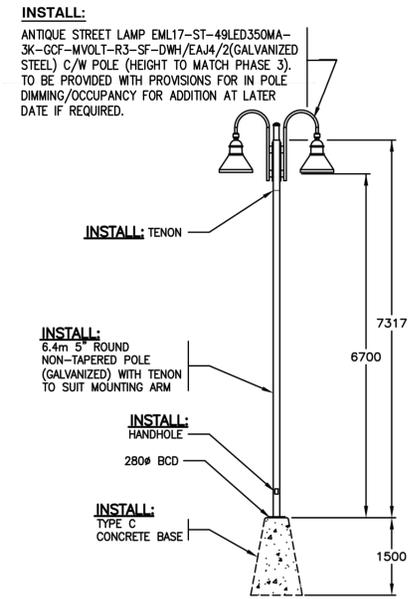
2 WALL MOUNT TYPE 'EC' INSTALLATION DETAIL
E9.0



3 MODIFIED TYPE CONCRETE BASE FOR LOOP FEEDING LUMINAIRE POLES
E9.0



4 STREET LIGHTING POLE TYPE EA
E9.0 SCALE: N.T.S.



5 STREET LIGHTING POLE TYPE ED
E9.0 SCALE: N.T.S.

NOTE:
CONFIRM POLE HEIGHTS WITH DRAWING NOTES AND LUMINAIRE SCHEDULE

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CMHC SCHL
GRANVILLE ISLAND OFFICE
GRANVILLE ISLAND
PHASE 4 EXTERIOR LIGHTING UPGRADE

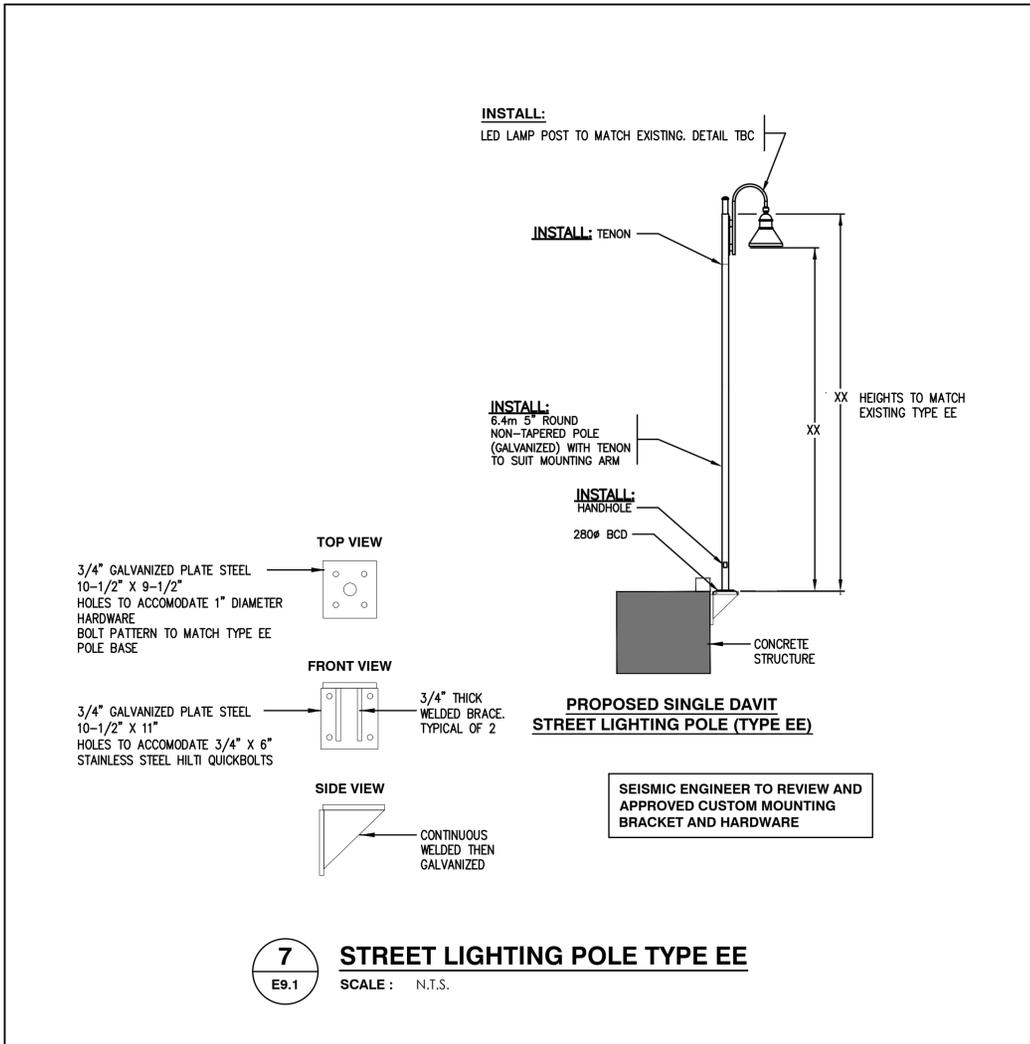
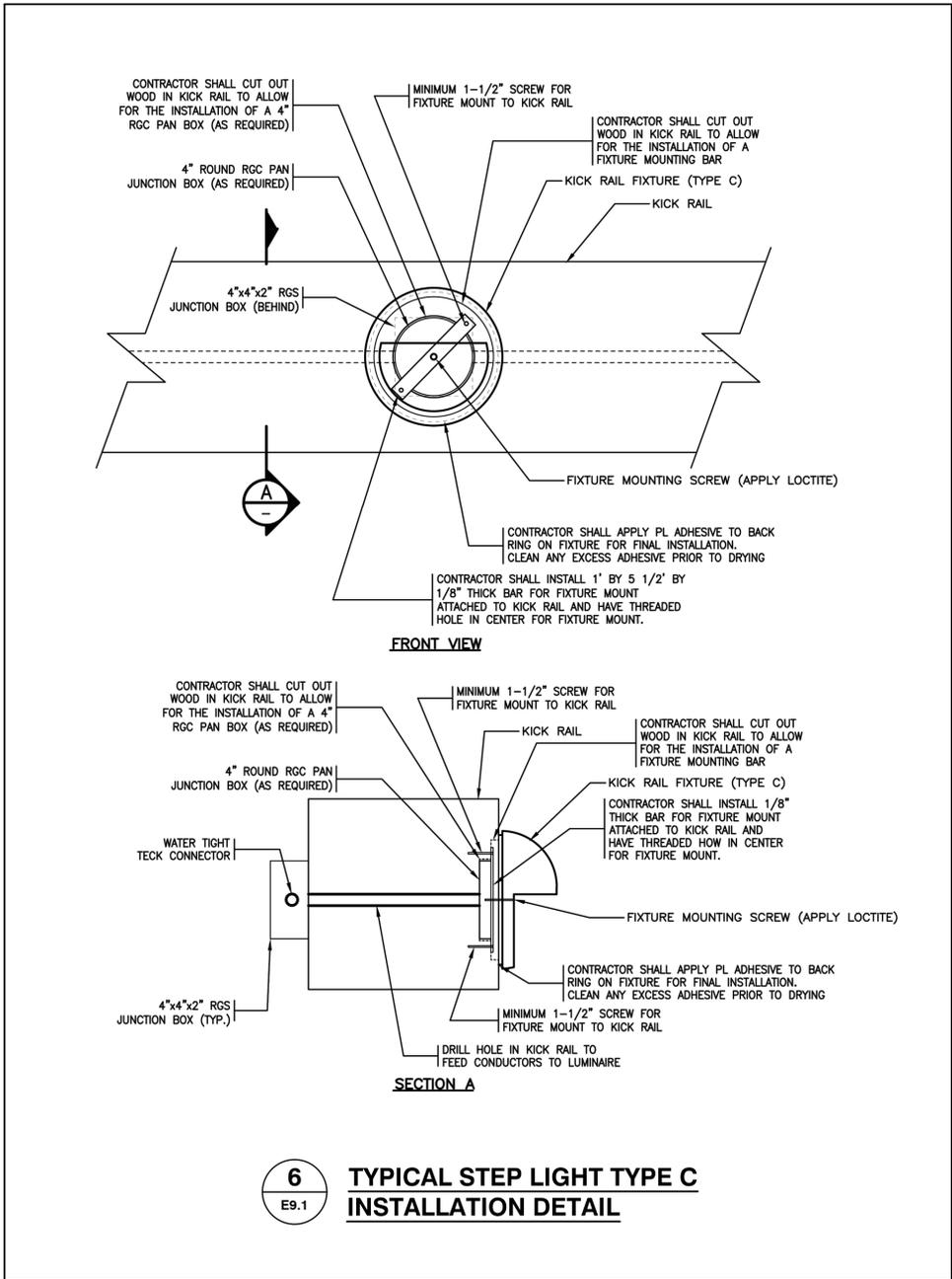
VANCOUVER BC CANADA

Title
DETAILS

Project No. 14440 Scale 1:N.T.S.

Drawn By DM Checked By KK/DN

Drawing No. Date 14 DEC. 2020



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4	-	-	-
3	ISSUED FOR TENDER	DM	2020.11.26
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Client/Project
CMHC SCHL
GRANVILLE ISLAND OFFICE
GRANVILLE ISLAND
PHASE 4 EXTERIOR LIGHTING UPGRADE

VANCOUVER BC CANADA

Title
DETAILS

Project No. 14440	Scale 1:N.T.S.
Drawn By DM	Checked By KK/DN
Drawnng NO.	Date 17 DEC. 2020

E9.1

S-001: ELECTRICAL SPECIFICATIONS:

1. GENERAL
 1. THE ELECTRICAL CONTRACTOR IS TO SUPPLY AND INSTALL ALL LABOUR AND MATERIALS NECESSARY TO PROVIDE A COMPLETE AND OPERATING ELECTRICAL SYSTEMS AS SPECIFIED OR INDICATED ON THE DRAWINGS. ANY WORK, EVEN IF NOT SHOWN OR SPECIFIED, WHICH IS OBVIOUSLY NECESSARY OR REASONABLY IMPLIED TO COMPLETE THE WORK, IS TO BE DONE AS IF IT WERE BOTH SHOWN OR SPECIFIED.
 2. THE DRAWINGS OF THE DIVISION ARE PERFORMANCE DRAWINGS AND INDICATE THE GENERAL ARRANGEMENT OF WORK. THEY ARE DIAGRAMMATIC AND DO NOT SHOW ALL THE EXISTING STRUCTURAL AND CONSTRUCTION DETAILS. ANY INFORMATION INVOLVING ACCURATE MEASUREMENTS AND EXISTING CONDITIONS SHALL BE VERIFIED ON SITE. ALL NECESSARY ADJUSTMENTS, CHANGES, AND ADDITIONS TO CARRY OUT THE DESIGN INTENT IS TO BE MADE WITHOUT ADDITIONAL CHARGE.
 3. CONTRACTOR TO VISIT SITE AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO TENDER. NO EXTRAS WILL BE ALLOWED FOR FAILURE TO DO SO.
 4. CONTRACTOR TO ENSURE CONFORMANCE TO ALL APPLICABLE REGULATIONS OF BRITISH COLUMBIA AND SUBMIT ALL REQUIRED DOCUMENTATION TO ARIJ PRIOR TO COMMENCING CONSTRUCTION.
 5. CONTRACTOR TO HAVE APPROPRIATE FIRST AID AND WORK SAFE PRACTICES IN PLACE PRIOR TO COMMENCING WORK.
 6. THE CONTRACTOR IS TO PROVIDE "AS-BUILT" RED LINE MARK UPS COMPLETE WITH CIRCUITS JUNCTION BOX AND KNOWN CONDUIT LOCATIONS UPON COMPLETION AND TO ALLOW \$450 PER SHEET FOR THE CONSULTANT TO UPDATE THE FILES FOR THE OWNER'S RECORD.
2. CODES, PERMITS AND INSPECTION
 1. THE INSTALLATION IS TO COMPLY WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE CANADIAN ELECTRICAL CODE AND THE REGULATIONS OF THE ELECTRICAL INSPECTION AUTHORITY HAVING JURISDICTION. THESE DOCUMENTS ARE NOT INTENDED TO ITERATE ANY CODES OR REGULATIONS. ALL CONTRACTORS AND THEIR RESPECTIVE TRADES PEOPLE ARE TO BE LICENSED AND QUALIFIED TO PERFORM THIS TYPE OF WORK. NO ALLOWANCE WILL BE MADE FOR THE FAILURE OF THE CONTRACTOR TO PROVIDE SATISFACTORY GROUNDING, ACCESS PANELS, WIRING METHODS, ETC. TO THE SATISFACTION OF THE APPLICABLE CODES AND INTENT OF THESE DOCUMENTS.
 2. GRANVILLE ISLAND IS FEDERALLY OWNED LAND. A B.C. SAFETY AUTHORITY INSPECTOR MAY INSPECT BUT ONLY UNDER THE CANADIAN ELECTRICAL CODE AS ITS IS PUBLISHED FEDERALLY. NO BUILDING FOR AMENDMENTS PUBLISHED BY BC SAFETY AUTHORITY ARE APPLICABLE. AS AN ALTERNATIVE, A FEDERAL INSPECTOR MAY BE BROUGHT IN TO INSPECT THE WORK.
 3. THE ELECTRICAL CONTRACTOR IS TO BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL PERMITS REQUIRED FOR THE COMPLETION OF THE WORK. PROVIDE FOR DRAWINGS TO THE POWER AUTHORITY AS REQUIRED BY THE GOVERNING RULES AND REGULATIONS.
3. STANDARDS OF MATERIAL AND QUALITY OF INSTALLATION
 1. ALL MATERIALS ARE TO BE NEW UNLESS OTHERWISE INDICATED, OF MINIMUM QUALITY SPECIFIED AND ARE TO CONFORM TO THE REQUIREMENTS OF THE CANADIAN STANDARDS ASSOCIATION (CSA) FOR THE INTENDED APPLICATION AND BEAR THE LABEL OF CSA OR EQUIVALENT AUTHORITY. WHERE EQUIPMENT OR MATERIAL IS DESCRIBED BY TECHNICAL DESCRIPTION ONLY, IT IS TO BE OF THE BEST COMMERCIAL QUALITY OBTAINABLE FOR THE PURPOSE.
 2. ALL SIMILAR PRODUCTS TO BE OF ONE TYPE AND FROM ONE MANUFACTURE UNLESS OTHERWISE NOTED.
 3. ALL WORK TO BE LAID OUT IN A NEAT AND ORGANIZED MANNER.
 4. WHERE WIRING IS EXPOSED, IT SHALL BE RUN PARALLEL OR PERPENDICULAR TO BUILDING LINES.
4. ALTERNATES
 1. ALTERNATES ENTAILING ADDITIONAL WORK OR DELETIONS ARE TO BE CARRIED OUT ONLY UPON THE WRITTEN REQUEST OF THE PRIME CONSULTANT.
 2. ANY PRICES SUBMITTED BY THE ELECTRICAL CONTRACTOR FOR ADDITIONAL WORK OR ALTERATIONS ARE TO INCLUDE A PRICE BREAKDOWN FOR ALL LABOUR AND MATERIALS. WHERE REQUIRED, PRICING FOR LABOUR AND MATERIALS WILL BE CHECKED BY INVOICES, TIME SHEETS, ETC. NO EXTRAS WILL BE ALLOWED WITHOUT PRIOR WRITTEN AUTHORIZATION.
5. SHOP DRAWINGS AND APPROVALS
 1. THE ELECTRICAL CONTRACTOR IS TO SUBMIT, TO THE ENGINEER FOR APPROVAL, A COMPLETE LIST OF ALL EQUIPMENT PROPOSED TO BE USED ON THE PROJECT, IDENTIFYING NAME OF MANUFACTURER, RATING, TECHNICAL DESCRIPTION AND CATALOGUE NUMBER. ALL SUBMISSIONS ARE TO BE MADE ON A TRANSPARENT TYPE MATERIAL (SUITABLE FOR REPRODUCTION) AND PROVIDED WITH SUFFICIENT ROOM FOR ALL APPROVAL STAMPS (FOR 8 1/2" x 11" CATALOGUE CUTS USE AN 8 1/2" x 14" FORMAT TYPICAL). SHOP DRAWINGS WILL NOT BE REVIEWED UNTIL BOTH THE ELECTRICAL CONTRACTOR AND GENERAL (PRIME) CONTRACTOR HAVE REVIEWED, STAMPED AND SIGNED OFF THE RESPECTIVE DRAWINGS. SUBMISSIONS ARE TO INCLUDE ONE (1) TRANSPARENT AND THREE (3) COPIES, ALL STAMPED BY THE RESPECTIVE CONTRACTORS.
6. SETTING OUT WORK
 1. THE ELECTRICAL CONTRACTOR IS TO THOROUGHLY EXAMINE THE SITE AND DRAWINGS AND REPORT ANY DISCREPANCIES, ERRORS OR OMISSIONS TO THE ENGINEER PRIOR TO TENDER. THE ELECTRICAL CONTRACTOR IS TO GIVE THE WORK PERSONAL SUPERVISION, LAYOUT THE WORK, DO ALL NECESSARY LEVELING AND MEASURING, OR EMPLOY A COMPETENT ENGINEER TO DO SO. FIGURES, FULL SIZE AND DETAIL DRAWINGS ARE TO TAKE PRECEDENCE OVER SCALE MEASUREMENTS OF THE DRAWINGS.
 2. THE ELECTRICAL CONTRACTOR IS TO BE RESPONSIBLE FOR CORRECTING ALL WORK COMPLETED CONTRARY TO THE INTENT OF THE DRAWINGS AND IS TO BEAR ALL COSTS OF SAME, WHERE THE INTENT OF THE DRAWINGS IS NOT CLEAR, OBTAIN CLARIFICATION FROM THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
 3. IT IS THE INTENT OF THESE DRAWINGS TO PROVIDE FOR AN ELECTRICAL INSTALLATION COMPLETE AND IN OPERATING CONDITION AND THE ELECTRICAL CONTRACTOR IS TO BE RESPONSIBLE FOR THE SUPPLY AND INSTALLATION OF ALL MATERIALS NECESSARY TO ACCOMPLISH THIS.
 4. THE ELECTRICAL CONTRACTOR IS TO BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY THE IMPROPER LOCATION OR CARRYING OUT OF HIS WORK.
 5. THE ELECTRICAL CONTRACTOR, IN SETTING OUT OF THE WORK IS TO MAKE REFERENCE TO THE ELECTRICAL, MECHANICAL, STRUCTURAL AND ARCHITECTURAL DRAWINGS. CONSULT WITH THE RESPECTIVE TRADES IN SETTING OUT LOCATIONS FOR CONDUIT RUNS, LIGHTING FIXTURES, PANEL ASSEMBLIES, ETC. SO THAT CONFLICTS ARE AVOIDED AND SYMMETRICAL EVEN SPACING IS MAINTAINED.
 6. CONDUIT IS TO BE LAID OUT TO AVOID INTERFERENCE WITH OTHER TRADES AND IS TO MAINTAIN MAXIMUM HEADROOM WITH THE MINIMUM NUMBER OF CROSSEVERS.
 7. SWITCH MOUNTING HEIGHTS ARE TO BE CO-ORDINATED WITH THE ARCHITECTURAL DETAILS AND ARE TO BE ADJUSTED AS NECESSARY TO CO-ORDINATE WITH PANELING, MASONRY COURSE LINE, ETC. CONFIRM WITH ARCHITECT BEFORE INSTALLATION.
 8. BEFORE INSTALLING WALL OUTLET BOXES, THE ELECTRICAL CONTRACTOR IS TO CHECK THE ARCHITECTURAL DRAWINGS FOR ROOM DETAILS, DOOR SINGS, BUILT-IN UNITS, ETC. AND IS TO ADJUST OUTLET POSITIONS TO CO-ORDINATE WITH SUCH ITEMS. CONFIRM WITH ARCHITECT BEFORE INSTALLATION.
 9. THE ELECTRICAL CONTRACTOR IS TO REFER TO MECHANICAL DRAWINGS FOR LOCATION OF THERMOSTATS, RADIATION CABINETS, ETC. OUTLETS ARE TO BE ADJUSTED IN THESE AREAS TO CO-ORDINATE WITH THE MECHANICAL EQUIPMENT. CONFIRM WITH ARCHITECT BEFORE INSTALLATION.
 10. WHERE SWITCHES, RECEPTACLES, ETC. ARE SHOWN IN THE SAME GENERAL LOCATIONS, THESE OUTLETS ARE TO BE LINED UP VERTICALLY.
 11. THE ELECTRICAL CONTRACTOR IS TO COORDINATE WITH ALL EQUIPMENT SUPPLIERS FOR THE EXACT LOCATION AND ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT PRIOR TO ROUGH-IN.

7. NAMETAGS
 1. WATER PROOF INDELEIBLE LABEL TAGS ARE TO BE PLACED ON ALL WIRING IN ALL JUNCTION BOXES AND OUTLET BOXES. NEUTRAL CONDUCTORS TO BE LABELED IDENTIFYING WHICH PHASE CONDUCTORS THEY ARE ASSOCIATED WITH.
 2. NAMETAGS ARE TO BE THREE LAYER LAMINATED PLASTIC BLACK/WHITE/BLACK WITH FIBRED LETTERS TO GIVE WHITE LETTERS ON BLACK BACKGROUND. EDGES ARE TO BE BEVELLED. EMBOSSED ADHESIVE BACKED DYMO NAMETAGS ARE NOT TO BE USED FOR PANEL BOUNDS, MOTOR STARTERS, DISTRIBUTION CENTRES, ETC.
8. TESTING
 1. ALL PORTIONS OF THE ELECTRICAL WORK IS TO BE TESTED AND CHECKED FOR SATISFACTORY OPERATION.
 2. WHEN ADDING/REPLACING LUMINAIRES, CHECK EXISTING CIRCUITS FOR VOLTAGE DROP AND PHASE BALANCE. KEEP A RECORD AND PROVIDE THE DOCUMENTATION OF TESTING TO THE ENGINEER UPON COMPLETION OF THE PROJECT.
 3. UPON COMPLETION OF THE WORK AND IMMEDIATELY PRIOR TO FINAL INSPECTION AND TAKEOVER THE ELECTRICAL CONTRACTOR IS TO CHECK THE LOAD BALANCE ON ALL FEEDER, DISTRIBUTION CENTRES, PANELS, ETC. TESTS ARE TO BE CARRIED OUT BY TURNING ON ALL POSSIBLE LOADS IN THE PROJECT AND CHECKING THE LOAD CURRENT BALANCE. IF LOAD UNBALANCE EXCEEDS 15 PERCENT, RECONNECT THE CIRCUITS TO BALANCE THE LOAD.
9. CO-ORDINATION BETWEEN TENANT AND EXTERIOR LIGHTING SYSTEM
 1. CHECK AND CO-ORDINATE ALL SYSTEMS IN THE TENANT AREAS WHICH ARE IMPACTED BY THE EXTERIOR LIGHTING UPGRADE TO ENSURE THEIR PROPER OPERATION.
 2. PROVIDE INTERFACING COMPONENTS BETWEEN NEW AND EXISTING SYSTEMS AS NECESSARY FOR PROPER PERFORMANCE AND OPERATION.
10. USE OF BASE BUILDING MATERIAL AND EQUIPMENT
 1. TEST BASE BUILDING EQUIPMENT WHICH IS TO REMAIN IN AREAS BEING RENOVATED FOR PROPER OPERATION AND REPAIR AS NECESSARY.
 2. CLEAN, TEST FOR PROPER OPERATION, AND REPAIR AS NECESSARY BEFORE BEING PUT BACK INTO SERVICE. BASE BUILDING EQUIPMENT TO BE RELOCATED OR RE-USED.
 3. UNLESS NOTED OTHERWISE, BASE BUILDING WIRING MATERIAL MAY BE RE-USED IF ACCEPTABLE TO THE INSPECTION AUTHORITIES.
 4. REPAIR OR REPLACE WITHOUT ADJUSTMENT TO THE CONTRACT PRICE ALL BASE BUILDING EQUIPMENT WHICH IS DAMAGED IN THE PROCESS OR RELOCATION.
 5. UNLESS NOTED OTHERWISE, PROVIDE ADDITIONAL EQUIPMENT OF THE SAME TYPE AND MANUFACTURE WHERE REQUIRED TO SUPPLEMENT EXISTING EQUIPMENT.
11. SALVAGE MATERIALS
 1. ALL EXISTING MATERIALS IN THE TENANT AREAS OF THE BASE BUILDING WHICH ARE NOT TO REMAIN OR BE RE-USED IS TO REMAIN THE PROPERTY OF THE BUILDING OWNER UNLESS NOTED OTHERWISE.
12. BASE BUILDING SERVICES
 1. DISCONNECT AND REMOVE ALL BASE BUILDING SERVICES WHICH ARE ABANDONED.
 2. REMOVE ALL CONDUIT WORK WHICH IS ABANDONED EXCEPT CUT FLUSH WHERE EMBEDDED IN STRUCTURE.
 3. WHERE BASE BUILDING WIRING DEVICES ARE ABANDONED BUT OUTLET BOXES ARE TO REMAIN, PROVIDE BLANK PLATES OF MATERIAL AS SPECIFIED.
 4. MAKE SAFE ALL CIRCUIT WIRING LEFT FOR FUTURE USE.
13. INTERRUPTION AND SERVICES
 1. ALL INTERRUPTIONS OF BASE BUILDING SERVICES (POWER, WATER, ETC.) ARE TO BE CO-ORDINATED THROUGH THE BUILDING OWNER AND TO BE EFFECTED ONLY AS DIRECTED BY THE BUILDING OWNER.
14. PREMIUM TIME
 1. INCLUDE COST OF PREMIUM TIME IN TENDER PRICE FOR WORK DURING NIGHTS, WEEKENDS OR OTHER TIME OUTSIDE NORMAL WORKING HOURS TO BE MAINTAINED TO MAINTAIN ALL ELECTRICAL SERVICES IN OPERATION.
15. CONDUIT
 1. ALL EXPOSED CONDUIT SHALL BE RIGID GALVANIZED STEEL MINIMUM SIZE 27mm FOR MULTIPLE CIRCUITS AND 16mm BETWEEN FIXTURES COMPLETE WITH THREADED COUPLINGS AND CONNECTORS. NO ENT PERMITTED.
 2. USED OF TEGROK IS NOT PERMITTED UNLESS SPECIFIC INSTALLATION AREA IS REQUESTED IN WRITING FOR APPROVAL BY THE ENGINEER AND THE CONTRACT ADMINISTRATOR.
 3. ALL STRAPS TO BE RIGID GALVANIZED STEEL.
 4. ALL UNDERGROUND CONDUIT SHALL BE THICK WALLED RIGID PVC AND SHALL BE MINIMUM 27mm DIAMETER. ALL CONDUIT, FITTINGS AND CEMENT TO BE CSA CERTIFIED. DBI IS NOT PERMITTED.
 5. PROVIDE CONDUIT EXPANSION JOINTS WHERE REQUIRED BY CODE.
 6. SIZE CONDUITS TO CODE REQUIREMENTS, PROVIDE LARGER SIZE WHERE NOTED.
 7. ALL CONDUIT IS TO BE TESTED FOR CLEAR BORE.
 8. INSTALL A CONTINUOUS NYLON CORD IN EACH CONDUIT LEFT EMPTY.
16. OUTLET BOXES
 1. ALL OUTDOOR LOCATED OUTLET BOXES AND JUNCTION BOXES ARE TO NET LOCATION RATED WITH THREADED HUB PROVISIONS AND OF THE SAME MANUFACTURE.
 2. ALL INGROUND JUNCTION BOXES SHALL BE VALEOMONT WEST COAST ENGINEERING-25220 - LARGE ROUND DUAL-TYPE TO CONFIGURATION COMPLETE WITH LB-350 AND DRAIN PLATE PART # 25916. JUNCTION BOXES TO BE BEDDED ON WELL GRADED BASE COURSE AGGREGATE. CONDUCTORS SPUNED OR PULLED THROUGH SHALL BE LABELED WITH ADEQUATE SLACK TO PROVIDE AVOIDING GRADE FOR MAINTENANCE.
 3. PVC CONDUITS ENTERING TYPE 10 JUNCTION BOXES SHALL BE SLOPED TOWARD THE JUNCTION BOX FOR DRAINING AND TERMINATED WITH APPROVED BELL ENDS.
17. WIRE AND CABLE
 1. INSTALL ALL WIRING IN CONDUIT UNLESS OTHERWISE NOTED. ALL WIRING IS TO BE COPPER AND MINIMUM #12 AWG AND SHALL BE STRANDED.
 2. ALL INSULATED CONDUCTORS MUST BE OF THE TYPE APPROVED FOR THE LOCATION OF INSTALLATION AND BE COLOR CODED. WHITE FOR NEUTRAL, RED, BLACK AND BLUE FOR EACH PHASE AND GREEN FOR GROUND.
 3. ALE POLE LIGHTING SHALL BE PROVIDED WITH ONE IN-LINE CARTRIDGE FUSE PER LUMINAIRE.
 4. CONDUCTORS RUN IN RIGID PVC OR INSIDE OR STREET LIGHT POLES SHALL BE RINGED AND INSTALLED WITH ADEQUATE SLACK TO PERMIT REMOVAL OF CONNECTED WIRES AND FUSING THROUGH THE HAND HOLE.

18. ACCESS PANELS AND DOORS
 1. PROVIDE ACCESS PANELS OR DOORS TO ALLOW READY ACCESS TO ALL CONCEALED ELECTRICAL JUNCTION BOXES AND/OR PRODUCTS REQUIRING ADJUSTMENTS OR MAINTENANCE.
19. POWER PANELS AND KIOSK
 1. KEEP AND ACCURATE RECORD OF CIRCUITS WHERE EXISTING LUMINAIRES ARE BEING REPLACED FOR ADDITION. UPDATE WITH LAMPS, PHOTO PANEL SCHEDULES FOR ALL KIOSKS AND PANELS WHERE WORK IS PERFORMED.
 2. EXTERIOR LIGHTING MAY BE CONNECTED TO EXISTING CONTROLS WHERE POSSIBLE; OTHERWISE PROVIDE NEW TIME CLOCK, PHOTO CELL AND RELAYS AS REQUIRED.
20. DISTRIBUTION EQUIPMENT
 1. DISTRIBUTION EQUIPMENT CONSISTS OF ELECTRICAL COMPONENTS AS DETAILED ON DRAWINGS.
21. WIRING DEVICES
 1. SWITCHES: QUIET, SLOW MAKE, SLOW BREAK DESIGN, TOGGLE HANDLE, WITH TOTALLY ENCLOSED CASE RATED TO MATCH OR EXCEED UPSTREAM OVERCURRENT DEVICE, 247 VOLT, AC TYPE WITH WIDE FACE BODY AND FULL GANG MATCHING TYPE. SWITCH AND PILOT LIGHT: PUSH ACTION TYPE WITH RED HANDLE. INTEGRAL LONG-LIFE PILOT LIGHTS, RATED AS SPECIFIED ABOVE OR CALLED FOR ON THE DRAWINGS. COLOUR: PROVIDE IVORY BAKELITE SWITCHES IN ALL AREAS, UNLESS DIRECTED OTHERWISE BY THE OWNER.
 2. HUBBEL, BRYANT OR APPROVED EQUAL.
22. LUMINAIRES (LIGHTING FIXTURES)
 1. THE CONTRACTOR SHALL PROVIDE ALL LIGHTING PRODUCTS INCLUDING ALL WIRING, POLE BUSES AND POLES, LUMINAIRE LAMPS, PHOTO CELLS, OVER-RIDE SWITCHES AND OTHER ASSOCIATED CONTROLS PER DRAWINGS AND SPECIFICATIONS TO FORM A COMPLETE EXTERIOR LIGHTING SYSTEM CONSISTENT WITH PREVIOUS EXTERIOR LIGHTING UPGRADE PHASES AND COMPLIANT WITH THE CURRENT CEC PART 1, 24TH EDITION AND MASTER MUNICIPAL CONSTRUCTION DOCUMENT PLATINUM EDITION.
 2. INSTALL ALL FIXTURES IN THE STANDARD MANNER FOR THE TYPE OF FIXTURE AND IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
 3. ALL LAMPS CONTAINING MERCURY & PCB'S SHALL BE DISPOSED OF IN ACCORDANCE WITH FEDERAL LAWS.
 4. SUPPORT ALL FIXTURES FROM STRUCTURAL MEMBERS EXCEPT THAT FIXTURES INSTALLED IN SUSPENDED CEILINGS MAY BE SUPPORTED BY THE CEILING PROVIDED THE SUPPORTS ARE REINFORCED TO CARRY THE ADDITIONAL LOAD.
23. LOCAL AUTHORITY INSPECTION REPORTS
 1. SUBMIT ALL COPIES OF THE LOCAL AUTHORITY INSPECTION REPORTS TO THE ENGINEER FOR REVIEW. PHOTOCOPIES ARE ACCEPTABLE.
24. MAINTENANCE MANUALS AND "FIELD RECORD" DRAWINGS
 1. THE ELECTRICAL CONTRACTOR IS TO PROVIDE THE OWNER WITH TWO (2) COMPLETE MAINTENANCE MANUALS (COMPLETE WITH LIGHTING FIXTURE INFORMATION AND SHOP DRAWINGS, ETC.) AND TWO (2) COMPLETE SETS OF BLUE-LINE PRINTS MARKED "FIELD RECORD DRAWINGS" INDICATING ALL CHANGES MADE DURING CONSTRUCTION. THE ELECTRICAL CONTRACTOR IS TO MAINTAIN, AT ALL TIMES, ON THE SITE, A COMPLETE SET OF CLEAN ELECTRICAL DRAWINGS RECORDING THE ACTUAL PROGRESS OF THE ELECTRICAL INSTALLATION INDICATING ALL VARIATIONS FROM THE TENDER DRAWINGS.
25. GUARANTEE
 1. THE ELECTRICAL CONTRACTOR IS TO GUARANTEE THE SATISFACTORY OPERATION OF ALL WORK AND APPARATUS INSTALLED UNDER THIS CONTRACT AND IS TO REPLACE FORTHWITH, AT HIS OWN EXPENSE, ANY PART WHICH MAY FAIL OR PROVE DEFECTIVE WITHIN A PERIOD OF TWELVE (12) MONTHS AFTER FINAL ACCEPTANCE OF THE COMPLETE CONTRACT, ALWAYS PROVIDED THAT SUCH FAILURE IS NOT CAUSED BY IMPROPER USAGE OR ORDINARY WEAR AND TEAR. THE PERIOD OF THIS GUARANTEE SPECIFIED ABOVE IS TO IN NO WAY SUPPLANT ANY OTHER GUARANTEE OF A LONGER PERIOD BUT IS TO BE BINDING ON ALL WORK, NOT OTHERWISE COVERED.
26. ADDITIONAL CONDITIONS
 1. REMOVAL AND REPLACEMENT OF LUMINAIRES IN EXISTING LOCATIONS REQUIRES ASSESSMENT OF EXISTING CONDUIT, JUNCTION BOXES AND WIRING. REPLACE ALL DAMAGED, BENT OR OTHERWISE DAMAGED CONDUIT AND FITTINGS AND WIRING WITH INSULATION THAT IS CRACKED OR OTHERWISE UNFIT FOR RE-ENERGIZATION.
 2. VOLTAGE FOR EXISTING LUMINAIRES IS 208 VOLT LINE TO NEUTRAL. WHEN REPLACING OR ADDING LUMINAIRES TO EXISTING CIRCUITS, TEST VOLTAGE PRIOR TO CONNECTING AND ENERGIZING. ACCURATE AS-BUILTS OF EXTERIOR LIGHTING ARE NOT AVAILABLE.
 3. ALL UNUSED ELECTRICAL MATERIALS TO BE REMOVED FROM SITE.
 4. ANY UNUSED FIXTURES TO BE HANDED OVER TO OWNER.
 5. IT IS THE INTENT ON THIS PROJECT THAT ALL EXTERIOR LIGHTING TO BE ADDED OR REPLACED, IS TO BE CONTROLLED AND CIRCUITED TO LOCAL KIOSK PANELS AND NOT FROM INDIVIDUAL BUILDING TENANT ELECTRICAL PANELS. IF IT IS FOUND THAT PROJECT LUMINAIRES ARE BEING FED FROM TENANT BUILDING PANELS, THE WIRING IS TO BE REMOVED AND MADE SAFE AND LUMINAIRES ARE TO BE RE-FED FROM APPROPRIATE DISTRIBUTION.
 6. WHERE LUMINAIRES ARE REMOVED AND NO NEW LUMINAIRE IS INSTALLED IN THE SAME LOCATION, REMOVE REDUNDANT MATERIALS AND MAKE GOOD SURFACES TO MATCH EXISTING SURROUNDINGS.
 7. INSTALLATION AND SCHEDULE TO BE COORDINATED WITH GRANVILLE ISLAND OPERATIONS DEPARTMENT.
 8. ELECTRICAL CONTRACTOR SHALL VISIT SITE DURING PRICING.
 9. ELECTRICAL CONTRACTOR SHALL REVIEW CURRENT BUILDING GUIDELINES.
 10. ALL ELECTRICAL CHANGES MUST BE TYPED ONTO PANEL DIRECTORIES ON COMPLETION OF WORK.
 11. CLEAN UP DEBRIS AND EXCESS MATERIALS AT THE END OF EACH WORK DAY.
 12. UNUSED WIRING IS TO BE REMOVED FROM THE CONDUIT SYSTEM WHEN NEW LINES ARE INSTALLED.
 13. ALL ELECTRICAL PRODUCTS TO BE BUILDING STANDARD AND OF THE SAME MAKE WHERE PRACTICAL.
 14. ALL UNUSED WIRING TO BE CLEARED BACK TO GRID JUNCTION BOXES.
 15. ELECTRICAL CONTRACTOR TO INDICATE THE FOLLOWING:
 - A) PROJECT FIXTURES REMAINING.
 - B) PROJECT FIXTURES RELOCATED.
 - C) PROJECT FIXTURES RETURNED TO OWNER.
 - D) NEW FIXTURES PROVIDED AND INSTALLED.
 16. CONTRACTOR TO REMOVE ALL UNUSED POWER WIRING. ANY POWER WIRING EXISTING IN CONDUIT SYSTEM WHICH IS SUITABLE FOR USE MAY BE REUSED BUT SHALL BE SUBJECT TO A MEGGER TEST FOR INSULATING RESISTANCE. THE ABOVE TESTS ARE TO BE WITNESSED BY THE ENGINEER.
 17. THE FOLLOWING SEISMIC REQUIREMENTS SHALL APPLY UNLESS APPROVAL IN WRITING IS OBTAINED FROM THE AUTHORITY HAVING JURISDICTION TO WAIVE PART OR ALL SAID REQUIREMENTS.

27. SEISMIC RESTRAINT NOTES
 1. ALL ELECTRICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE FOLLOWING CRITERIA:
 - A) FIXED EQUIPMENT ON GRADE - USE 33X OF OPERATING WEIGHT AT THE CENTER OF GRAVITY.
 - B) FIXED EQUIPMENT ON STRUCTURE - USE 50X OF OPERATING WEIGHT AT THE CENTER OF GRAVITY.
 - C) EMERGENCY POWER AND COMMUNICATION EQUIPMENT ON STRUCTURE - USE 75X OF OPERATING WEIGHT AT THE CENTER OF GRAVITY.
 - D) EMERGENCY AND POWER COMMUNICATION EQUIPMENT ON STRUCTURE - USE 75X OF OPERATING HEIGHT OR CENTER OF GRAVITY IF HIGHER.
 - E) FLEXIBLY MOUNTED EQUIPMENT - USE 2 TIMES THE ABOVE VALUES.
 - F) SIMULTANEOUS VERTICAL FORCE - USE 1/3 TIMES THE HORIZONTAL FORCE.
 2. HORIZONTAL SEISMIC FORCES SHALL BE DETERMINED FROM THE APPLICABLE EQUATIONS OF THE GOVERNING CODE.
 3. WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON DRAWINGS FOR FLOOR, WALL, CEILING OR ROOF MOUNTED EQUIPMENT WEIGHING LESS THAN 1,000 lbs., THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF A STRUCTURAL ENGINEER RETAINED BY THE ELECTRICAL CONTRACTOR. STRUCTURAL ENGINEER TO PROVIDE APPROPRIATE LETTER OF ASSIGNANCE.
 4. PROVIDE ALL REQUIRED SEISMIC BRACING, SUPPORTS, BOLTS, WASHERS, NUTS, ETC. FOR CONDUITS AND CONDUIT SUPPORTS.
 5. PROVIDE A SYSTEM TO SECURE ALL EXCESSIVE LIGHTING FIXTURES. FIXTURES SHALL BE SUPPORTED DIRECTLY AND LATERALLY FROM THE BUILDING STRUCTURE ABOVE, USING NO. 12 GAUGE WIRE MINIMUM. THE CEILING SUSPENSION SYSTEM SHALL NOT BE USED FOR DIRECT SUPPORT.
28. CIVIL, UNDERGROUND AND ROADWORKS
 1. ALL CIVIL, UNDERGROUND AND ROADWORKS IS PART OF ELECTRICAL CONTRACTORS SCOPE OF WORK.
 2. UNDER THE DIRECTION OF THE ELECTRICAL CONTRACTOR, ALL CIVIL AND ROADWORKS, TRENCHING AND BACKFILLING, EXCAVATION ETC. SHALL COMPLY WITH THE MASTER MUNICIPAL CONSTRUCTION DOCUMENT (MMCD) PLATINUM EDITION.
 3. MINIMAL RECORD DRAWINGS ARE AVAILABLE OF UNDERGROUND UTILITIES, BC-ONE CALL SHALL BE DONE AND PRIOR TO EXCAVATING CHECKS TO BE DONE BEFORE DIGGING.
 4. HAND DIGGING WILL BE REQUIRED IN SENSITIVE AREAS.
 5. CONDUITS SHALL BE INSTALLED AT A CONSTANT DEPTH WITH MINIMUM COVER CONDUITS TO BE 400mm WHERE EVER POSSIBLE. USE OF APPROPRIATE MECHANICAL PROTECTION MAY BE REQUIRED IN SOME AREAS.
 6. IN ALL TRENCHES DUCTS SHALL BE BEDDED AND INSTALLED SLIGHTLY SLOPED TO PERMIT EXPANSION AND CONTRACTION.
 7. PLACE TRENCH MARKER TAPE 300mm ABOVE CONDUITS IN ALL TRENCHES.
 8. ALL GROUNDING AND BONDING SHALL CONFORM TO CANADIAN ELECTRICAL CODE AND AS NOTED ON THE DRAWINGS.
 9. PROVIDE REASONABLE NOTIFICATION TO ENGINEER PRIOR TO BACK FILLING.
 10. TAKE REASONABLE PRECAUTIONS NECESSARY TO PREVENT DAMAGE TO EXISTING UTILITIES. ANY DAMAGES TO UTILITIES MUST BE REPAIRED TO THE SATISFACTION OF THE CONTRACT ADMINISTRATOR.
 11. EXISTING PANELS ARE NO LONGER AVAILABLE, HANDLE WITH CARE WHILE REMOVING, STORING AND RE-INSTALLING.
 12. CONTRACTOR TO REINSTATE AREAS OF CONSTRUCTION TO ITS ORIGINAL CONDITION.

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 GRANVILLE ISLAND OFFICE
 GRANVILLE ISLAND
 PHASE 4 EXTERIOR LIGHTING UPGRADE

VANCOUVER BC CANADA

Title
SPECIFICATION

Project No.
 14440

Scale
 N.T.S.

Drawn By
 DM

Checked By
 KK/DN

Drawing No.
 Date

04 DEC. 2020

E10.0