

## ELECTRICAL LEGEND

'DD' <b>O</b>	LIGHT FIXTURE, LETTER DENOTES TYPE.
'cc' <b>⊗</b>	BOLLARD FIXTURE, LETTER DENOTES TYPE.
'BB' <b>Q</b>	WALL MOUNTED FIXTURE, LETTER DENOTES TYPE.
'1-AA1' <b>睅</b>	EXTERIOR LIGHT STANDARD FIXTURE. LETTER DENOTES TYPE.
•	HARD WIRED CONNECTION TO EQUIPMENT.
<b>₩</b>	120V WEATHERPROOF DUPLEX RECEPTACLE ON DEDICATED CIRCUIT FOR BLOCK HEATER.
[EVC]	FUTURE ELECTRICAL VEHICLE CHARGING STATION. PROVIDE 1-53mmC (PWR) AND 1-53mmC (COMM) TO EACH LOCATION.
	U/G RACEWAY FOR COMMUNICATION SERVICES.
	U/G RACEWAY FOR POWER SERVICES.

ABBREVIATIONS: HT – HEIGHT GFI — GROUND FAULT INTERRUPTER WP - WEATHER PROOF U.O.N. - UNLESS OTHERWISE NOTED N.T.S - NOT TO SCALE N.I.C. – NOT IN CONTRACT

C/W - COMPLETE WITH U/G – UNDER GROUND POW - POWER SERVICES COMMS - COMMUNICATION SERVICES AFF — ABOVE FINISHED FLOOR

## |ELECTRICAL DRAWING LIST

DRAWING No. SP-E01 | ELECTRICAL: LEGEND, DRAWING LIST & SITE PLAN SP-E02 | ELECTRICAL: FIXTURE SCHEDULE & DETAILS

## **GENERAL NOTES**

- ROUTING OF THE INCOMING BURIED SERVICES IS A PROPOSED DIAGRAMMATIC ROUTING. COORDINATE WITH CIVIL DRAWINGS, LANDSCAPE DRAWINGS, AND HYDRO ONE ONSITE PRIOR TO COMMENCING WORK TO FINALIZE ROUTING.
- INSTALLATION OF BUILDING POWER SUPPLY INFRASTRUCTURE. THE PURPOSE OF THE MEETING IS TO COORDINATE THE WORK, REVIEW THE RESPONSIBILITIES OF HYDRO ONE THE GENERAL CONTRACTOR, THE UTILITY CONTRACTOR AND THE ELECTRICAL CONTRACTOR TO ENSURE THAT THE INSTALLATION OF THE TRANSFORMER AND CABLE DUCTS ADHERE TO HYDRO ONE SPECIFICATIONS AND ESA REQUIREMENTS.
- 3. SITE CONDUITS FOR LIGHTING AND RECEPTACLES ARE NOT SHOWN. UTILITY AND
- 4. PROVIDE MINIMUM #8 AWG CONDUCTOR SIZE FOR SITE LIGHTING. ALL LIGHTING CONDUITS SHALL BE MINIMUM 53mm RIGID PVC. PROVIDE FINAL CONNECTIONS TO ELECTRICAL PANELS ONCE THEY ARE INSTALLED DURING BUILDING CONSTRUCTION. 5. SIZE RECEPTACLE CONDUCTORS FOR VOLTAGE DROP AT 80% CIRCUIT LOADING AND PROVIDE A MINIMUM WIRE SIZE OF #6 AWG. PROVIDE FINAL CONNECTIONS TO
- ELECTRICAL PANELS ONCE THEY ARE INSTALLED DURING BUILDING CONSTRUCTION. . PROVIDE A PRIMARY GROUND GRID BURIED BENEATH THE EXTERIOR OPEN PARKING AREAS OR GROUND LOOP AROUND PERIMETER OF BUILDING DEPENDING ON LOCAL SOILS RESISTIVITY AND THE RESULTS OF THE GROUND POTENTIAL RISE (GPR) STUDY. REFER TO SPECIFICATIONS.
- . COORDINATE MOUNTING HEIGHTS OF BUILDING MOUNTED LIGHT FIXTURES WITH ARCHITECTURAL ELEVATION DETAILS.
- 8. SUPPLY AND INSTALL GUARDS AND STRAPS FOR PRIMARY RISERS ON HYDRO ONE POLE (HYDRO ONE TO INSTALL ON POLE).
- 9. ENSURE TRANSITION OF PRIMARY CABLE AS PER HYDRO ONE DETAILS DU-08-307 AND DU-08-302 (CONCRETE INSTALLATION NOT PERMITTED ON HYDRO ONE OWNED

## **DRAWING NOTES**

- PROVIDE OVERHEAD SERVICE CABLES FROM HYDRO ONE POLE TO CUSTOMER OWNED POLE ON PROPERTY AS SHOWN. ALLOW FOR AN ADDITIONAL SUFFICIENT AMOUNT OF CABLES COILED FOR UTILITY CONNECTIONS. HYDRO ONE TO MAKE FINAL CONNECTIONS AND PROVIDE TERMINATIONS AT HYDRO ONE POLE.
- PROVIDE 16.8m (55'-0") CLASS L CONCRETE POLE USI#HA-550-L-1-PG AND 200A LOAD BREAK 3 POLE GANG OPERATED SWITCH WITH 30A FUSES. POLE TO BE BURIED MINIMUM 2.59m (8'-6") IN THE GROUND WITH ENGINEERED BASE TO SUIT EQUIPMENT WEIGHT. PROVIDE USI W SERIES ENTRY BOXES AND RUN LOAD WIRING INSIDE POLE. TRANSITION FROM OVERHEAD SERVICES TO LOAD BREAK SWITCH AND DIP BACK DOWN TO UNDERGROUND SERVICE AT THIS LOCATION. PROVIDE GROUNDING AND CABLE GUARDS AS PER SPECIFICATIONS AND AS PER OESC REQUIREMENTS.
- 3 PROVIDE NEW CUSTOMER OWNED TRANSFORMER C/W 2108mm X 2235mm USI-E-13PS PRECAST BASE. PROVIDE PRIMARY GROUNDING AS PER OESC BULLETIN 36-10-20 FOR TAMPER RESISTANT EQUIPMENT. COORDINATE WORK WITH HYDRO ONE AND INSPECTION AUTHORITY.

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
East Lot	+	1.4 fc	5.4 fc	0.1 fc	54.0:1	14.0:1
East Receiving Bay	+	2.8 fc	4.6 fc	1.0 fc	4.6:1	2.8:1
Gated Entrance	+	1.2 fc	3.0 fc	0.1 fc	30.0:1	12.0:1
North—East Lot	+	1.3 fc	8.8 fc	0.1 fc	88.0:1	13.0:1
North Receiving Bay	+	2.6 fc	4.3 fc	1.4 fc	3.1:1	1.9:1
North-West Lot	+	1.5 fc	8.9 fc	0.1 fc	89.0:1	15.0:1
Office Entrance East	+	5.3 fc	5.4 fc	5.2 fc	1.0:1	1.0:1
Office Entrance Front	+	5.9 fc	7.3 fc	3.0 fc	2.4:1	2.0:1
Office Entrance West	+	5.3 fc	5.4 fc	5.2 fc	1.0:1	1.0:1
Parking Lot	+	1.1 fc	3.4 fc	0.1 fc	34.0:1	11.0:1
Property Line	+	0.0 fc	0.5 fc	0.0 fc	N/A	N/A
Tractor Parking	+	1.3 fc	3.9 fc	0.1 fc	39.0:1	13.0:1
West Lot	+	1.3 fc	5.6 fc	0.1 fc	56.0:1	13.0:1
West Receiving Bay	+	2.8 fc	4.6 fc	1.0 fc	4.6:1	2.8:1

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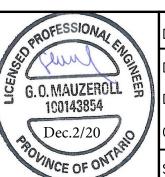
1.	ISSUED FOR SITE PLAN CONTROL	DEC 02/20
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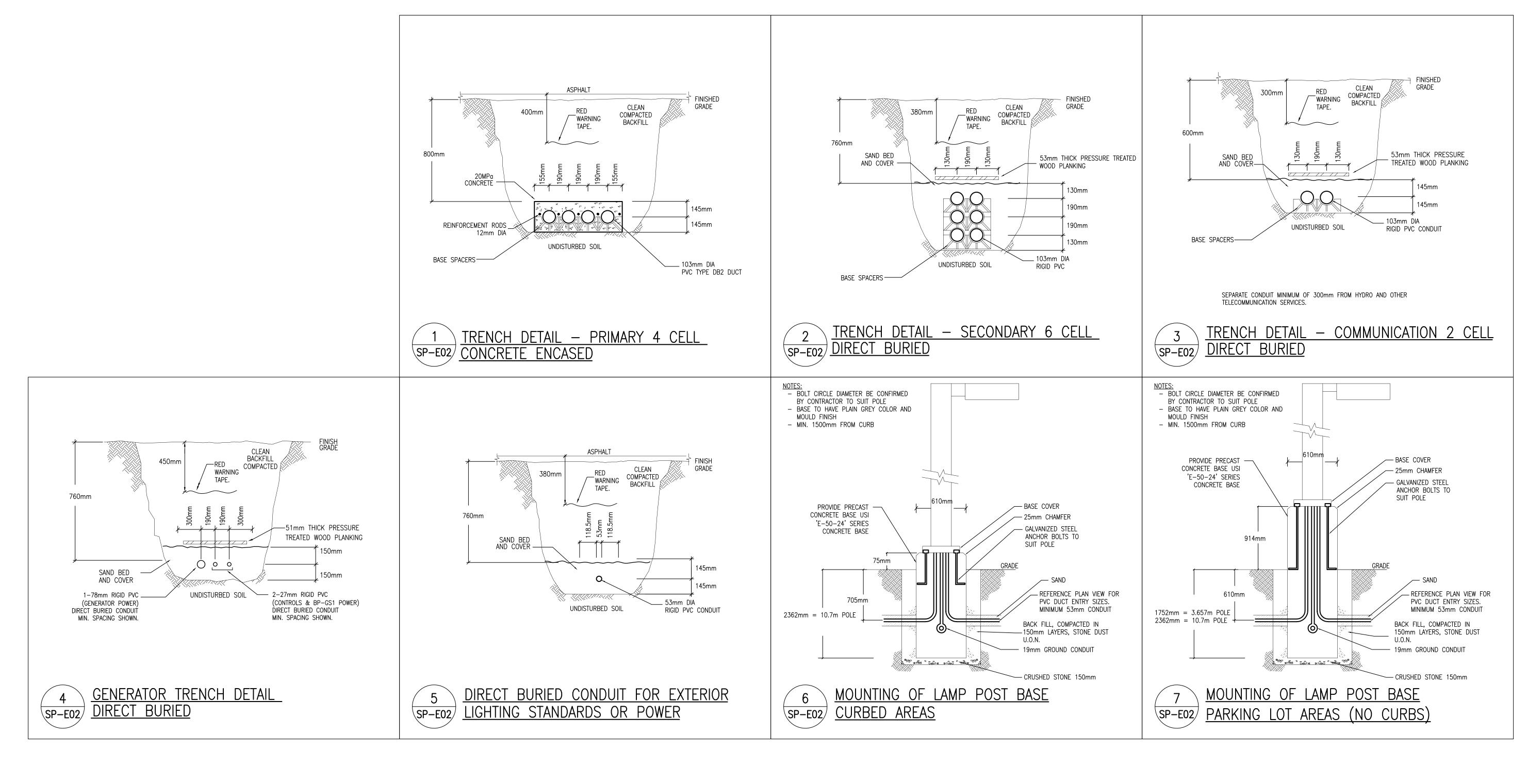
MARITIME-ONTARIO 8800 CAMPEAU DRIVE OTTAWA, ON K2S 1B9

ELECTRICAL: LEGEND, DRAWING LIST & SITE PLAN



TYPE	DESCRIPTION	LAMPS	LED DIMMING DRIVER	DIMMING RANGE	VOLT	MOUNTING	REMARKS
1-AA1	POLE MOUNTED FIXTURE EQUAL TO SIGNIFY GARDCO 'ECF-L' SERIES.	1x238W LED	0-10V	10-100%	120	SQUARE ALUMINUM POLE 10.7m ABOVE GRADE	<ul> <li>32228 LUMENS, 4000K, 70 CRI, TYPE IV DISTRIBUTION.</li> <li>FULL CUT-OFF, BACK LIGHT SHIELDING.</li> <li>FACTORY INSTALLED DIMMING OCCUPANCY SENSOR.</li> <li>WHITE FINISH, MOUNTING HEIGHT INCLUDES HEIGHT OF BASE.</li> </ul>
2-AA1	POLE MOUNTED FIXTURE EQUAL TO SIGNIFY GARDCO 'ECF-L' SERIES.	2x238W LED	0-10V	10-100%	120	SQUARE ALUMINUM POLE 10.7m ABOVE GRADE	<ul> <li>64456 LUMENS, 4000K, 70 CRI, TYPE IV DISTRIBUTION.</li> <li>FULL CUT-OFF, BACK LIGHT SHIELDING.</li> <li>FACTORY INSTALLED DIMMING OCCUPANCY SENSOR.</li> <li>WHITE FINISH, MOUNTING HEIGHT INCLUDES HEIGHT OF BASE.</li> </ul>
I-AAZ	POLE MOUNTED FIXTURE EQUAL TO SIGNIFY GARDCO 'ECF—S' SERIES.	73W LED	0-10V	10-100%	120	SQUARE ALUMINUM POLE 6.096m ABOVE GRADE	<ul> <li>9949 LUMENS, 4000K, 70 CRI, TYPE IV DISTRIBUTION.</li> <li>FULL CUT-OFF, BACK LIGHT SHIELDING.</li> <li>FACTORY INSTALLED DIMMING OCCUPANCY SENSOR.</li> <li>WHITE FINISH, MOUNTING HEIGHT INCLUDES HEIGHT OF BASE.</li> </ul>
1-AA3	POLE MOUNTED FIXTURE EQUAL TO SIGNIFY GARDCO 'ECF-S' SERIES.	73W LED	0-10V	10-100%	120	SQUARE ALUMINUM POLE 6.096m ABOVE GRADE	<ul> <li>9949 LUMENS, 4000K, 70 CRI, TYPE III DISTRIBUTION.</li> <li>FULL CUT-OFF, BACK LIGHT SHIELDING.</li> <li>FACTORY INSTALLED DIMMING OCCUPANCY SENSOR.</li> <li>WHITE FINISH, MOUNTING HEIGHT INCLUDES HEIGHT OF BASE.</li> </ul>
BB	BUILDING MOUNTED FIXTURE EQUAL TO SIGNIFY GARDCO '121' SERIES.	70W LED	0-10V	10-100%	120	SURFACE WALL MOUNTED 7.92m AFF U.O.N.	<ul> <li>8591 LUMENS, 4000K, 70 CRI, TYPE IV DISTRIBUTION.</li> <li>FULL CUT-OFF, WHITE FINISH.</li> </ul>
CC	180mm BOLLARD MOUNTED FIXTURE EQUAL TO SIGNIFY GARDCO 'BRM' SERIES.	38.6W LED	0-10V	10-100%	120	1.0m ABOVE GRADE	<ul> <li>1226 LUMENS, 4000K, 70 CRI, SYMMETRIC DISTRIBUTION.</li> <li>FULL CUT-OFF, CAST ALUMINUM BASE, WHITE FINISH.</li> </ul>
DD-1	102mm ROUND DOWNLIGHT FIXTURE EQUAL TO SIGNIFY LIGHTOLIER C4RA SERIES.	6W LED	0-10V	10-100%	120	RECESSED CANOPY 3.64m AFF U.O.N.	- 500 LUMENS, 4000K, 90 CRI, SPECULAR FINISH, WHITE FLANGE, MEDIUM BEAM.
DD-2	152mm ROUND DOWNLIGHT FIXTURE EQUAL TO SIGNIFY LIGHTOLIER C6RA SERIES.	25W LED	0-10V	10-100%	120	RECESSED CANOPY 9.14m AFF U.O.N.	- 2500 LUMENS, 4000K, 90 CRI, SPECULAR FINISH, WHITE FLANGE, MEDIUM BEAM.
FF	104mm BUILDING UP LIGHT FLOOD FIXTURE EQUAL TO SIGNIFY HADCO FLEXSCAPE LED IL9 SERIES.	10W LED			120	RECESSED CONCRETE	- 681 LUMENS, 4000K, 70 CRI, FLOOD BEAM, BLACK FINISH.

NOTE:
PROVIDE HAND-HELD WIRELESS CONFIGURATION REMOTE FOR SUCCESSFUL IMPLEMENTATION OF PROGRAMMING, A MINIMUM OF TWO (2) HAND-HELD REMOTES ARE REQUIRED.



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REVISION No.				
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FIXTURE SCHEDULE & DETAILS

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DESIGNI

G. O. MAUZEROLL

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SCALE: N.T.S.

20071 SP-EC