

ELECTRICAL ABBREVIATIONS table listing symbols for phases (1PH, 2C, 3PH), current types (A, AC), components (C, CB, CL, CU), and various electrical devices like switches, relays, and sensors.

LIGHTING table listing symbols for ceiling-mounted and wall-mounted fixtures, lighting controls (toggle switches, dimmers, sensors), and lighting protection & grounding (ground electrodes, rods, conductors).

POWER table listing symbols for panels, direct connections, three-phase connections, disconnect switches, starters, fuses, and motor connections.

SINGLE LINE DIAGRAM table listing symbols for fuses, disconnect switches, circuit breakers, transformers, potential transformers, current transformers, ground connections, transfer switches, generators, and ammeters/voltmeters.

DEMOLITION PLAN table listing symbols for existing undercanopy light fixtures, exterior wall-mounted light fixtures, exterior pole-mounted lighting fixtures, and trailer charging plugs.



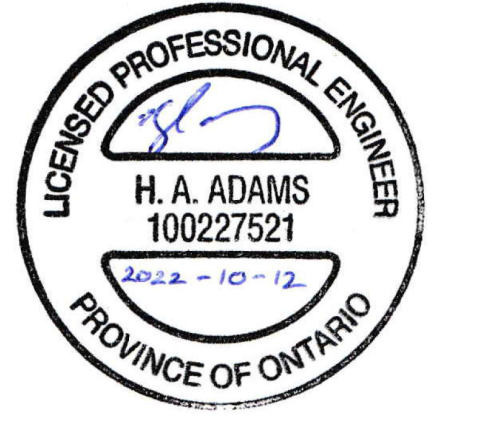
PROJECT
DYT3 GEN 3.1 BTS,
OTTAWA, ONTARIO
2625 SHEFFIELD ROAD

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CHOICE PROPERTIES REIT
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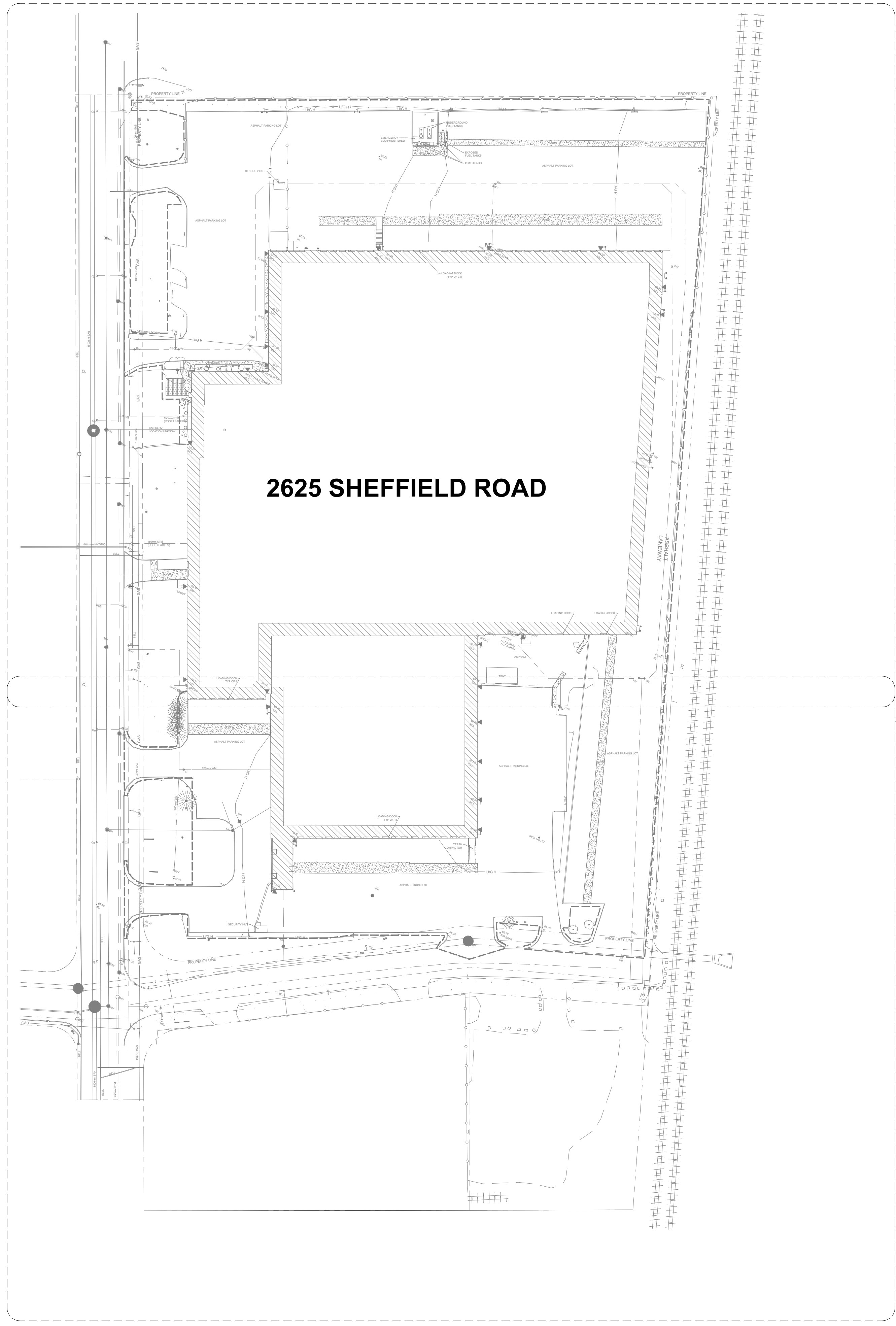
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REGISTRATION



ISSUE/REVISION table with columns for date, description, and revision number.

PROJECT NUMBER
60648725
SHEET TITLE
ELECTRICAL LEGEND
SHEET NUMBER
E0.01



1
E1.02

1
E1.03

1
E1.01 1:1000
ELECTRICAL OVERALL SITE PLAN - REMOVAL WORK

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REGISTRATION

ISSUE/REVISION

I/R	DATE	DESCRIPTION
2	2022-10-07	ISSUED FOR SPA
1	2022-08-30	LANDLORD REVIEW - SPA SET

KEY PLAN

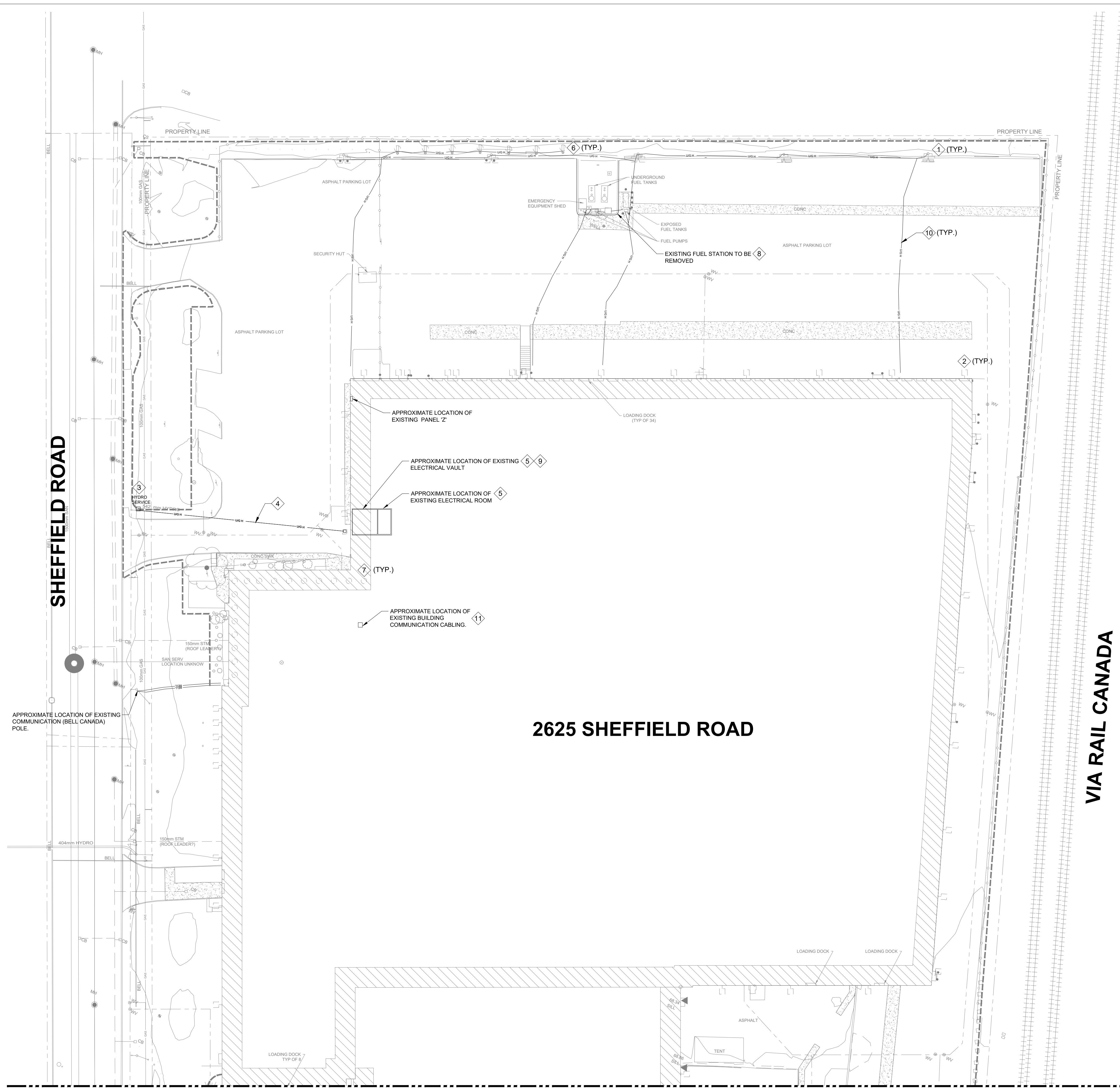
PROJECT NUMBER
60648725

SHEET TITLE
ELECTRICAL OVERALL SITE PLAN
REMOVAL WORK

SHEET NUMBER
E1.01

PLAN NO.: xxx

D0x-x-xxxx



NOTES:

- 1 REMOVE EXISTING LIGHT POLE AND ASSOCIATED LIGHT FIXTURE(S) AND POLE BASE C/W WIRING, CONDUITS, SUPPORTS, ACCESSORIES BACK TO THE SOURCE PANEL AND MAKE SAFE. CONTRACTOR TO SITE VERIFY SOURCE PANEL.
- 2 REMOVE ALL EXTERIOR WALL MOUNTED LIGHTING FIXTURES C/W WIRING, CONDUITS, SUPPORTS, ACCESSORIES BACK TO THE SOURCE PANEL AND MAKE SAFE. CONTRACTOR TO SITE VERIFY SOURCE PANEL.
- 3 INCOMING UTILITY POLE TO REMAIN.
- 4 EXISTING PRIMARY INSTALLATION TO BE REMOVED. COORDINATE WITH HYDRO OTTAWA (LOCAL UTILITY SERVICE PROVIDER) FOR POWER SHUT DOWN AND RECONNECTION.
- 5 EXISTING SECONDARY CABLES TO BE REMOVED. CONTRACTOR TO DISCONNECT AND PROVIDE POWER RECONNECTION FOR NEW MAIN SWITCHBOARD INSTALLATION.
- 6 EXISTING TRAILER CHARGING PLUGS C/W WIRING, CONDUITS, SUPPORTS, ACCESSORIES TO BE DISCONNECTED AND REMOVED BACK TO SOURCE PANEL AND MAKE SAFE. EXISTING TRAILER CHARGING PLUGS ARE FED FROM PANEL 'Z' LOCATED AT THE GARAGE AREA. CONTRACTOR TO SITE VERIFY EXISTING INFORMATION.
- 7 REMOVE ALL UNDER CANOPY LIGHTING FIXTURES C/W WIRING, CONDUITS, SUPPORTS, ACCESSORIES BACK TO THE SOURCE PANEL AND MAKE SAFE. CONTRACTOR TO SITE VERIFY SOURCE PANEL.
- 8 EXISTING FUEL STATION IS BEING REMOVED BY OTHERS. DISCONNECT AND REMOVE ALL EXISTING ELECTRICAL INSTALLATION AT THIS AREA. ALL EXISTING WIRING/CONDUIT SHALL BE REMOVED BACK TO SOURCE PANEL C/W EXISTING SUPPORTS AND ACCESSORIES.
- 9 EXISTING 13.2KV-600/347V MAIN HIGH VOLTAGE CUSTOMER OWNED TRANSFORMER LOCATED AT ELECTRICAL VAULT TO BE REMOVED.
- 10 EXISTING UNDERGROUND WIRING/CONDUIT TO BE REMOVED BACK TO THE SOURCE PANEL AND MAKE SAFE. ALSO SEE NOTE #3 AND NOTE#4 ON THIS DRAWING.
- 11 PROTECT EXISTING COMMUNICATION CABLING FOR FUTURE EXTENSION.

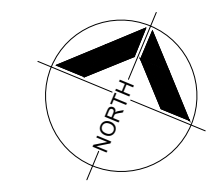


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 60648725
SHEET TITLE
 ELECTRICAL SITE PLAN
 REMOVAL WORK
 1 OF 2
SHEET NUMBER
 E1.02
 PLAN NO.: xxx

MATCHLINE REFER TO E1.03

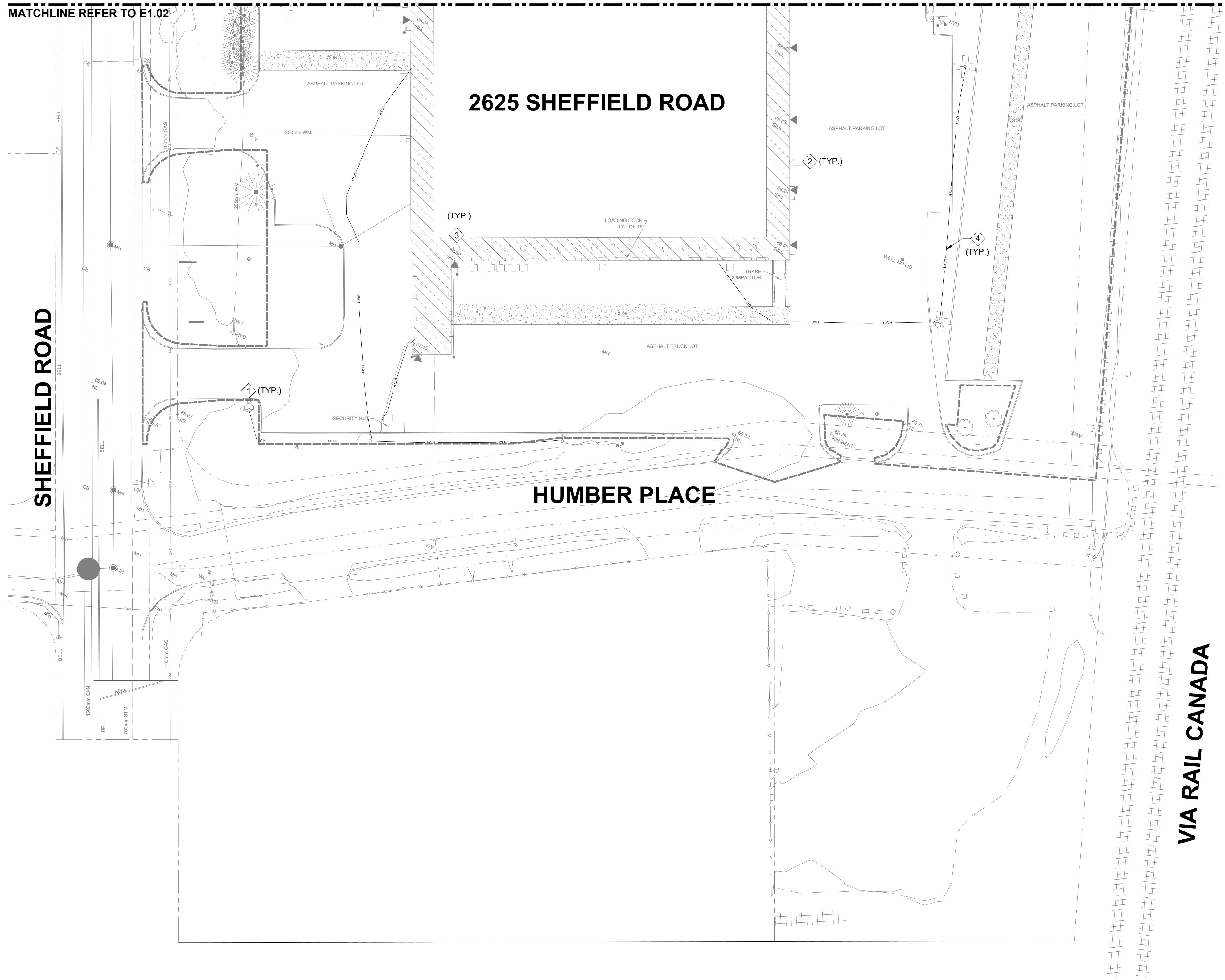
MATCHLINE REFER TO E1.03

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MATCHLINE REFER TO E1.02

MATCHLINE REFER TO E1.02



- NOTES:**
- 1 REMOVE EXISTING LIGHT POLE AND ASSOCIATED LIGHT FIXTURE(S) AND POLE BASE C/W WIRING, CONDUITS, SUPPORTS, ACCESSORIES BACK TO THE SOURCE PANEL AND MAKE SAFE. CONTRACTOR TO SITE VERIFY SOURCE PANEL.
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 - 3 REMOVE ALL UNDER CANOPY LIGHTING FIXTURES C/W WIRING, CONDUITS, SUPPORTS, ACCESSORIES BACK TO THE SOURCE PANEL AND MAKE SAFE. CONTRACTOR TO SITE VERIFY SOURCE PANEL.
 - 4 EXISTING UNDERGROUND WIRING/CONDUIT TO BE REMOVED BACK TO THE SOURCE PANEL AND MAKE SAFE. ALSO SEE NOTE #3 AND NOTE#4 ON DRAWING E1.02.

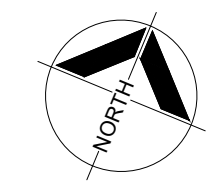


PROJECT
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KEY PLAN

PROJECT NUMBER

60648725

SHEET TITLE

ELECTRICAL SITE PLAN
REMOVAL WORK
2 OF 2

SHEET NUMBER

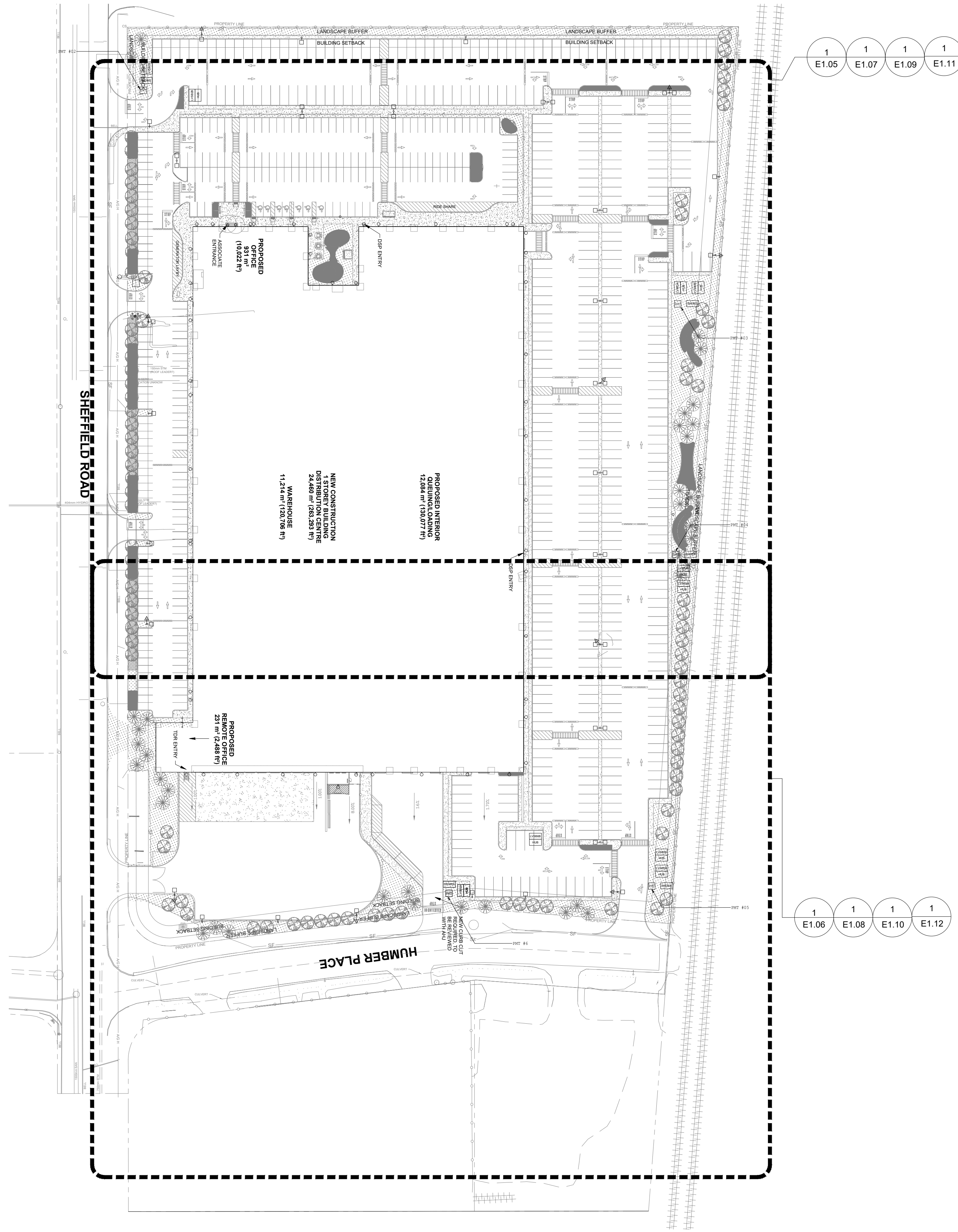
E1.03

PLAN NO.: xxx

1 ELECTRICAL SITE PLAN - REMOVAL WORK - 2 OF 2
 E1.03 1:500

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1 ELECTRICAL OVERALL SITE PLAN - NEW WORK
 E1.04 1:1000

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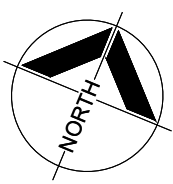


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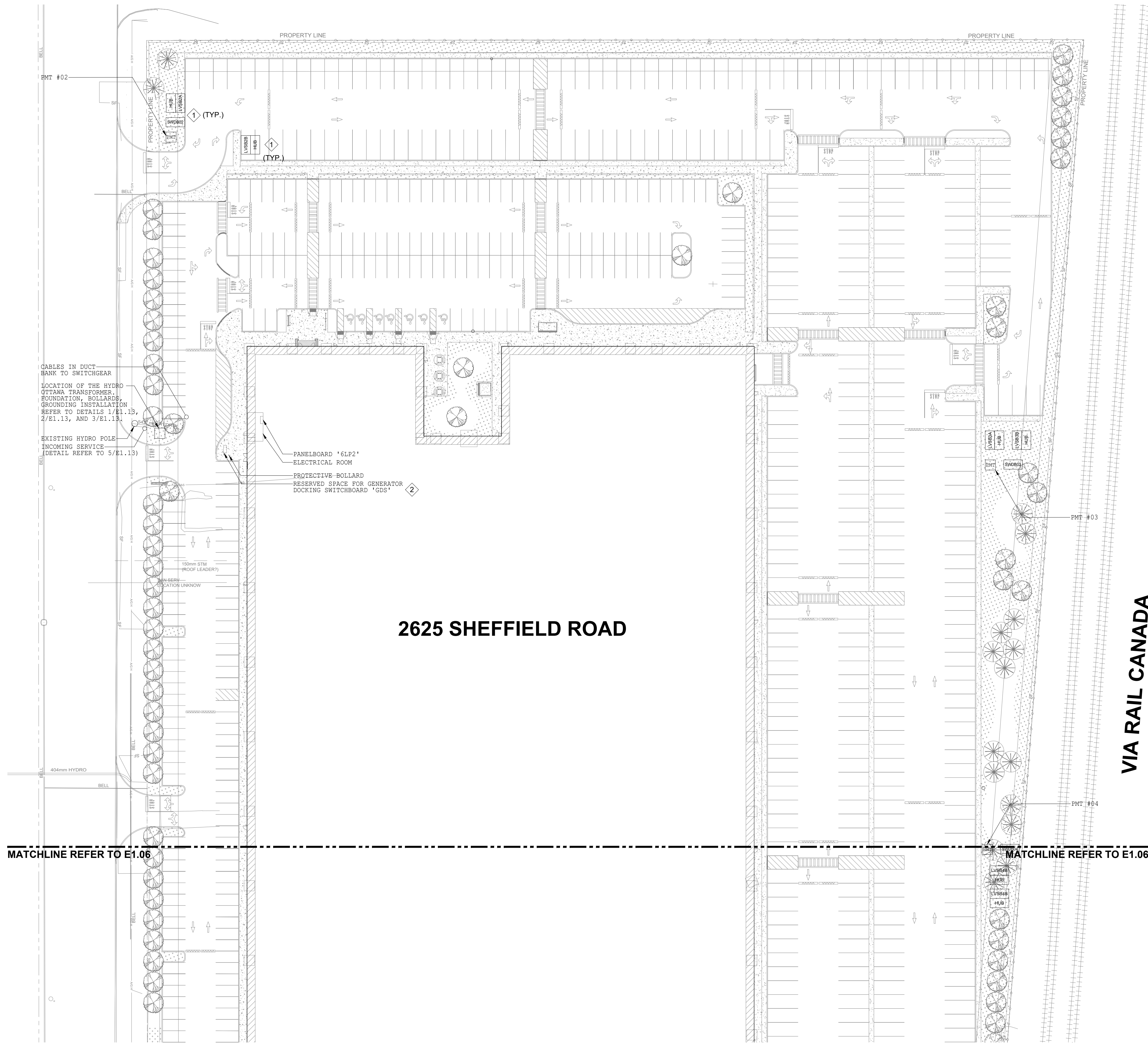


ISSUE/REVISION

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2	2022-10-07	ISSUED FOR SPA
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KEY PLAN

PROJECT NUMBER
 60648725
SHEET TITLE
 ELECTRICAL OVERALL SITE PLAN
 NEW WORK
SHEET NUMBER
 E1.04
 PLAN NO.: xxx



NOTES:

- ① LOCATIONS RESERVED FOR ELECTRIC VEHICLE CHARGING SYSTEM EQUIPMENT (PAD MOUNTED TRANSFORMER, SWITCHGEAR, AND COMMUNICATION HUB) TO BE INSTALLED IN FUTURE.
- ② GENERATOR DOCKING SWITCHBOARD WITH CAM-LOCKS (SIMILAR AS BOD: ESL POWER SYSTEM INC'S TEMPTAP). SERVICE ENTRANCE RATED, NEMA 3R. PROVIDE WITH REQUIRED NUMBER OF CAM-LOCK CONNECTORS (SUITABLE FOR THE NUMBER AND SIZE OF FEEDERS) FOR CONNECTION OF ROLL-UP EMERGENCY GENERATOR. PROVIDE PROTECTED BOLLARDS AND HOUSEKEEPING PAD AS REQUIRED. COORDINATE WITH GENERAL CONTRACTOR FOR INSTALLATION.



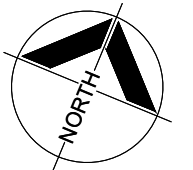
PROJECT
DYT3 Gen3.1 BTS
OTTAWA, ONTARIO
2625 SHEFFIELD ROAD

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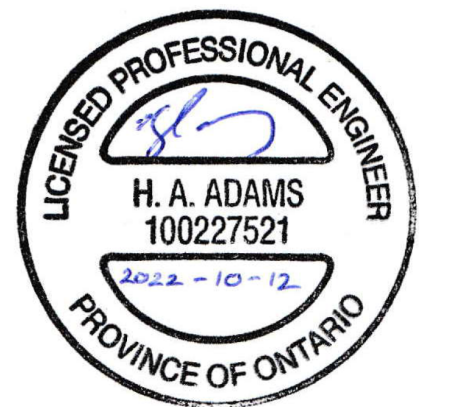
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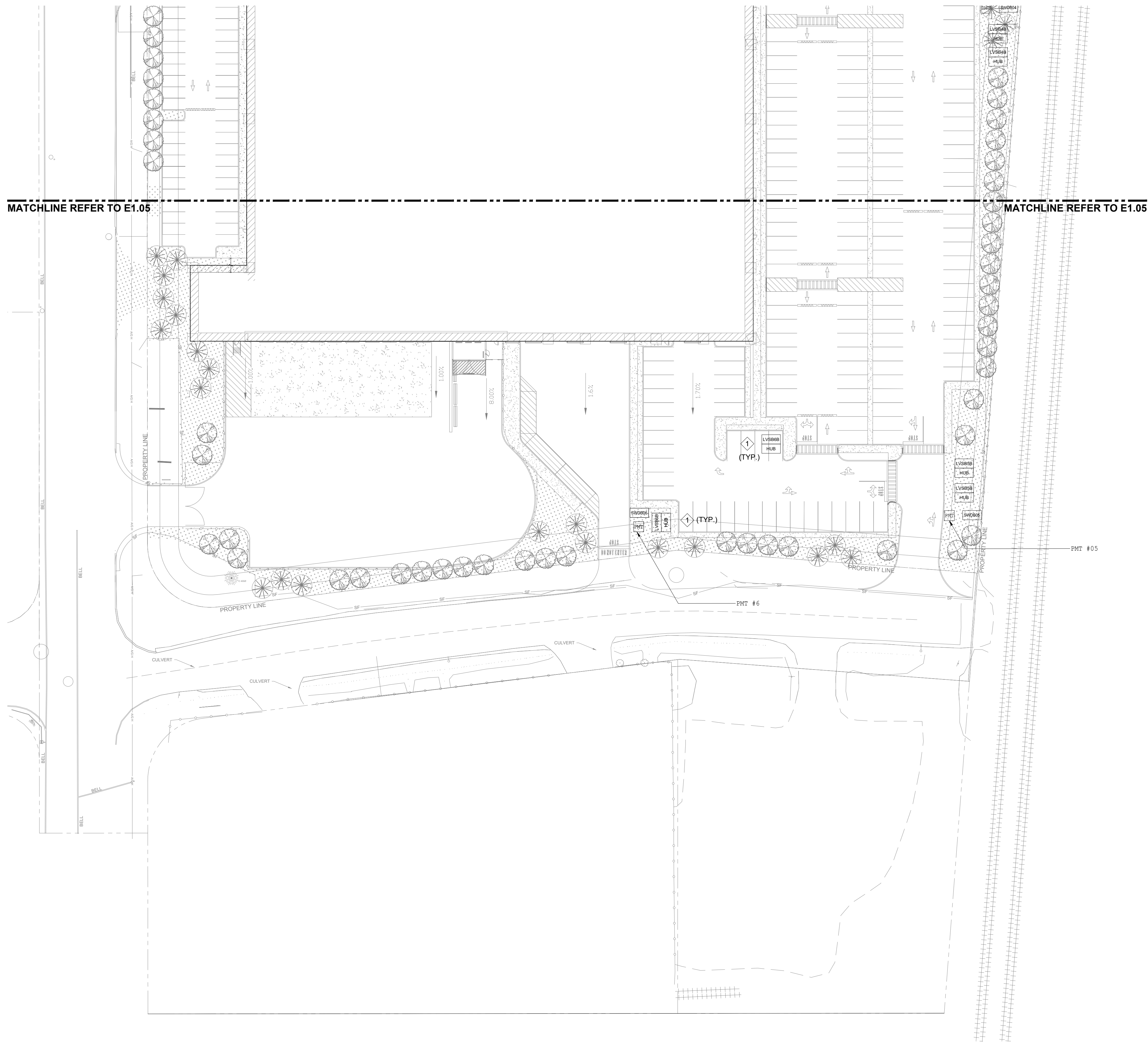
SHEET TITLE
ELECTRICAL SITE PLAN
SITE SERVICING - NEW WORK
1 OF 2

SHEET NUMBER
E1.05

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1 ELECTRICAL SITE PLAN - SITE SERVICING - NEW WORK - 1 OF 2
E1.05 1:500



NOTES:

- ◊ LOCATIONS RESERVED FOR ELECTRIC VEHICLE CHARGING SYSTEM EQUIPMENT (PAD MOUNTED TRANSFORMER, SWITCHGEAR, AND COMMUNICATION HUB) TO BE INSTALLED IN FUTURE.

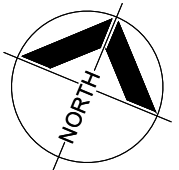


PROJECT
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SHEET TITLE

ELECTRICAL SITE PLAN
 SITE SERVICING - NEW WORK
 2 OF 2

SHEET NUMBER

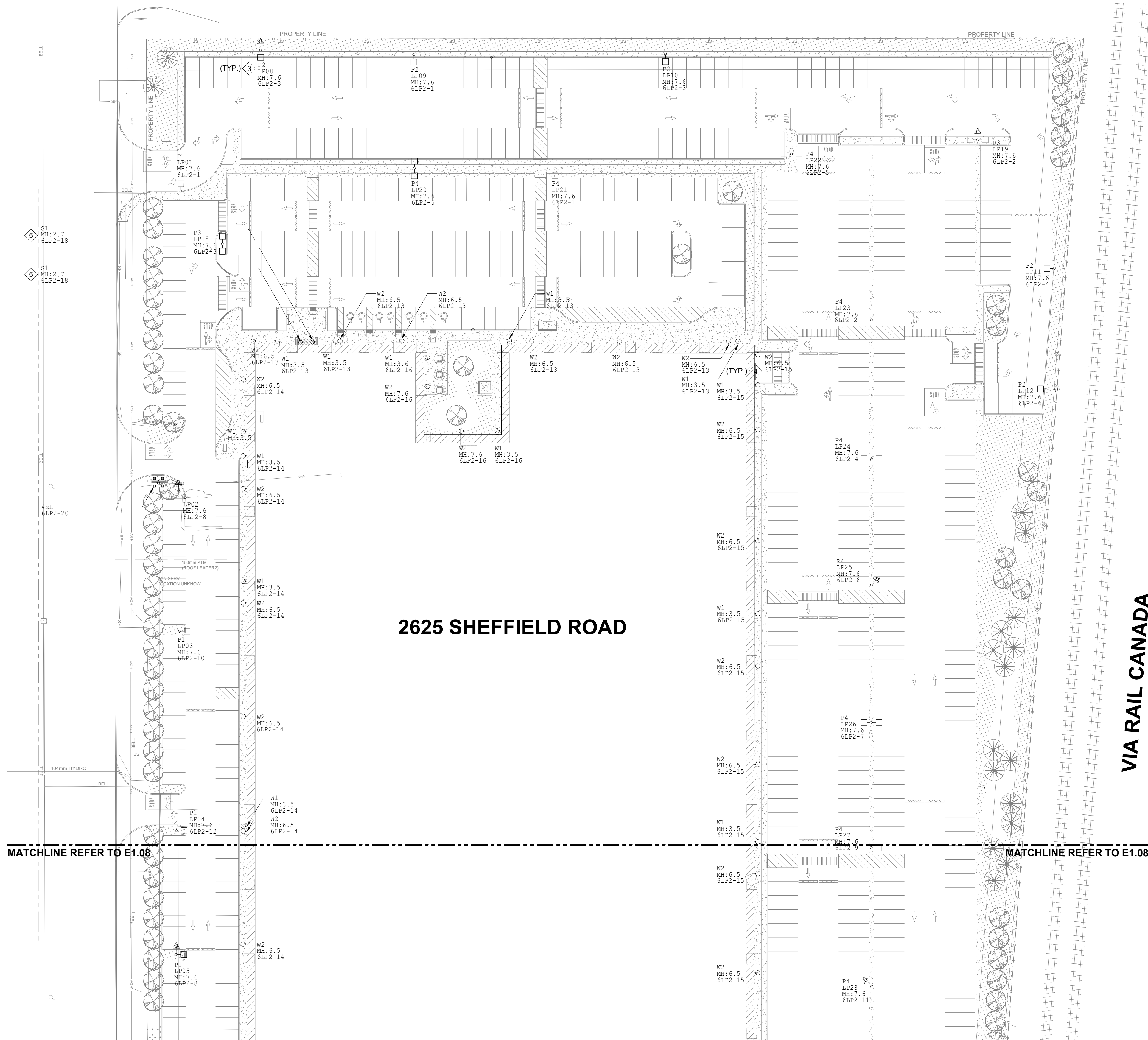
E1.06

PLAN NO.: xxx

1 ELECTRICAL SITE PLAN - SITE SERVICING - NEW WORK - 2 OF 2
 E1.06 1:500

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NOTES:

1. REFER TO DRAWING E1.09 & E 1.10 FOR THE SITE PLAN LIGHTING PHOTOMETRIC PLAN.
2. REFER TO DRAWING E1.13 FOR LUMINAIRE SCHEDULE AND POLE SCHEDULE.
3. PROVIDE NEW LIGHT FIXTURE C/W POLE, POLE BASE, ARMS, CONDUIT & WIRING. REFER TO DETAIL 5/E1.13 FOR TYPICAL POLE BASE, DETAIL 2/E1.13 FOR NEW LIGHTING POLE SCHEDULE, AND DETAIL 1/E1.13 FOR NEW LIGHTING FIXTURE SCHEDULE.
4. PROVIDE NEW LIGHT FIXTURE MOUNTED ON EXTERIOR WALL. REFER TO DETAIL 1/E1.14 FOR NEW LIGHTING FIXTURE SCHEDULE.
5. TYPE 'S1' LIGHTS ARE CEILING RECESSED MOUNTED UNDER THE CANOPY.



PROJECT

DYT3 Gen3.1 BTS
OTTAWA, ONTARIO
2625 SHEFFIELD ROAD

OWNER

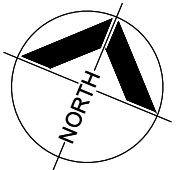
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CONSULTANT

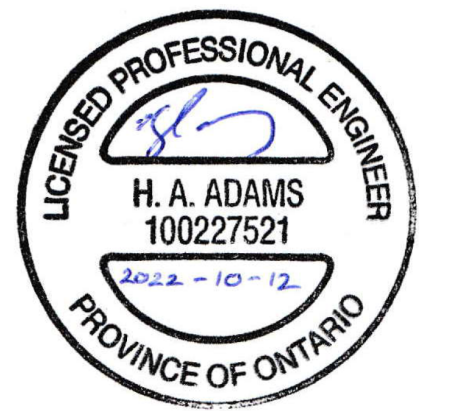
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ELECTRICAL SITE PLAN
LIGHTING - NEW WORK
1 OF 2

SHEET NUMBER

E1.07

PLAN NO.: xxx

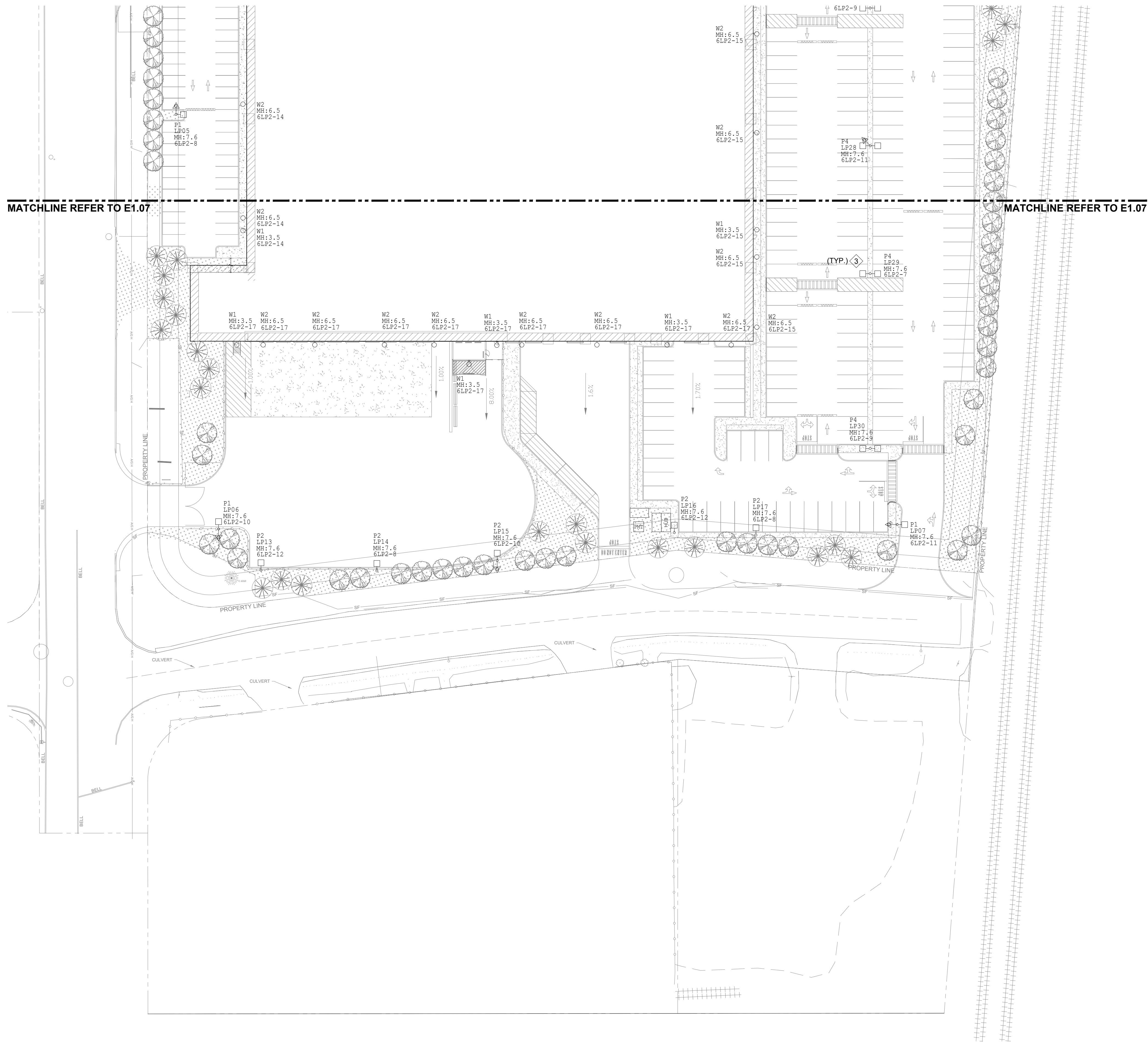
2625 SHEFFIELD ROAD

VIA RAIL CANADA

1 ELECTRICAL SITE PLAN - LIGHTING - NEW WORK - 1 OF 2
E1.07 1:500

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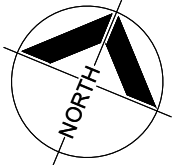


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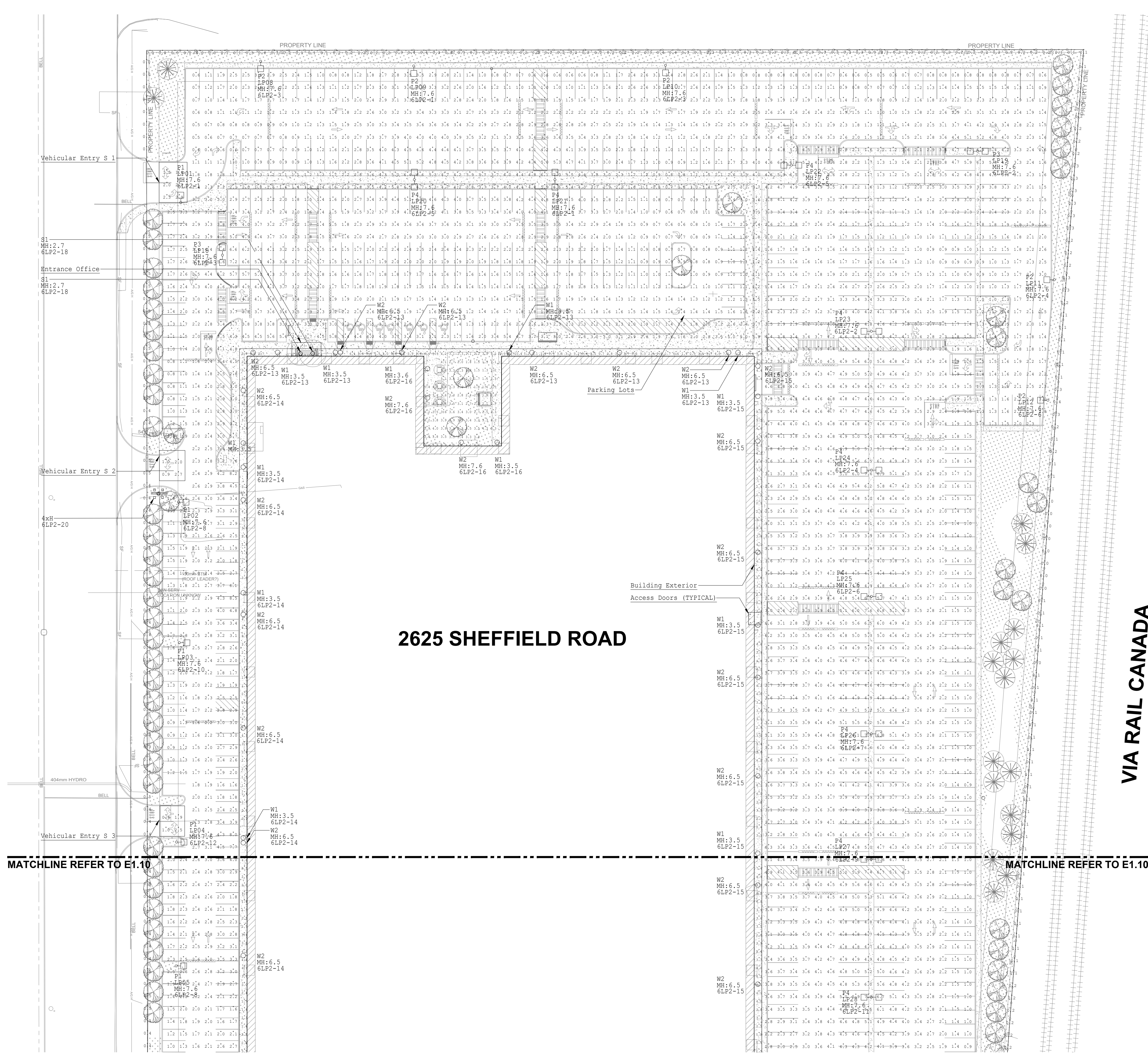
E1.08

PLAN NO.: xxx

1 ELECTRICAL SITE PLAN - LIGHTING - NEW WORK - 2 OF 2
E1.08 1:500

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NOTES:

- 1. REFER TO DRAWING E1.13 FOR LUMINAIRE SCHEDULE AND POLE SCHEDULE.

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Access Doors (TYPICAL)	ILLUMINANCE	Fc	11.18	13.1	9.2	1.22	1.42
Building Exterior	ILLUMINANCE	Fc	3.56	16.7	1.1	3.24	15.18
Entrance Office	ILLUMINANCE	Fc	10.04	15.1	6.9	1.46	2.19
Loading Docks	ILLUMINANCE	Fc	3.15	5.9	1.5	2.10	3.93
Open Truck Yards	ILLUMINANCE	Fc	1.36	4.3	0.4	3.40	10.75
Parking Lots	ILLUMINANCE	Fc	2.80	9.9	0.5	5.60	19.80
Pedestrian (TYPICAL)	ILLUMINANCE	Fc	4.50	4.9	4.2	1.07	1.17
SPILLAGE	ILLUMINANCE	Fc	0.23	0.5	0.0	N.A.	N.A.
Vehicular Entry S 1	ILLUMINANCE	Fc	2.08	2.9	1.5	1.39	1.93
Vehicular Entry S 2	ILLUMINANCE	Fc	1.65	2.7	0.9	1.83	3.00
Vehicular Entry S 3	ILLUMINANCE	Fc	1.58	2.5	0.9	1.76	2.78
Vehicular Entry S 4	ILLUMINANCE	Fc	1.58	2.0	1.2	1.32	1.67

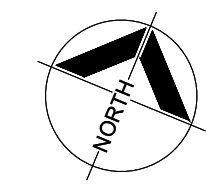


PROJECT
DYT3 Gen3.1 BTS
OTTAWA, ONTARIO
2625 SHEFFIELD ROAD

OWNER
Choice Properties Reit
700-22 St. Clair Avenue East
Toronto, Ontario M4T 2S5
647-533-5057

CONSULTANT
AECOM Canada Ltd.
50 Sportsworld Crossing Road, Suite 290
Kitchener, Ontario, N2P 0A4
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www.aecom.com

NOTE:
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ISSUE/REVISION

I/R	DATE	DESCRIPTION
2	2022-10-07	ISSUED FOR SPA
1	2022-08-30	LANDLORD REVIEW - SPA SET

KEY PLAN

PROJECT NUMBER
60648725

SHEET TITLE
ELECTRICAL SITE PLAN
LIGHTING CALCULATION PLAN
1 OF 2

SHEET NUMBER
E1.09

PROJECT NUMBER
60648725

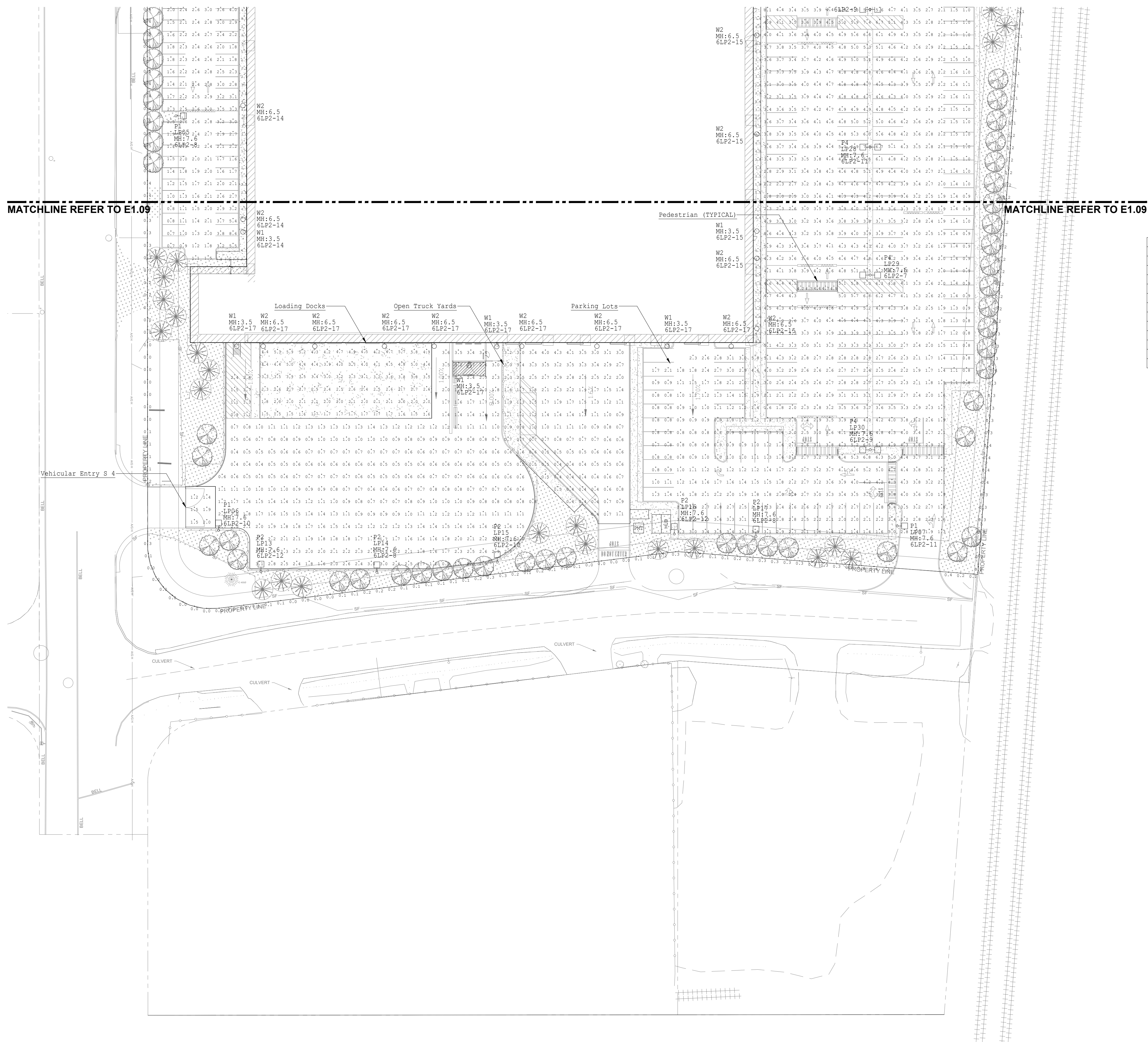
PLANNING NUMBER
PLAN NO.: xxx

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1 ELECTRICAL SITE PLAN - LIGHTING CALCULATION - 1 OF 2
E1.09 1:500

VIA RAIL CANADA



NOTES:

- REFER TO DRAWING E1.13 FOR LUMINAIRE SCHEDULE AND POLE SCHEDULE.

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Access Doors (TYPICAL)	Illumination	Fc	11.18	13.1	9.2	1.22	1.42
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Entrance Office	Illumination	Fc	10.04	15.1	6.9	1.46	2.19
Loading Docks	Illumination	Fc	3.15	5.9	1.5	2.10	3.93
Open Truck Yards	Illumination	Fc	1.36	4.3	0.4	3.40	10.75
Parking Lots	Illumination	Fc	2.80	9.9	0.5	5.60	19.80
Pedestrian (TYPICAL)	Illumination	Fc	4.50	4.9	4.2	1.07	1.17
SPILLAGE	Illumination	Fc	0.23	0.5	0.0	N.A.	N.A.
Vehicular Entry S 1	Illumination	Fc	2.08	2.9	1.5	1.39	1.93
Vehicular Entry S 2	Illumination	Fc	1.65	2.7	0.9	1.83	3.00
Vehicular Entry S 3	Illumination	Fc	1.58	2.5	0.9	1.76	2.78
Vehicular Entry S 4	Illumination	Fc	1.58	2.0	1.2	1.32	1.67



PROJECT
DYT3 Gen3.1 BTS
OTTAWA, ONTARIO
2625 SHEFFIELD ROAD

OWNER

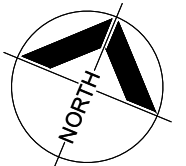
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KEY PLAN

PROJECT NUMBER

60648725

SHEET TITLE

ELECTRICAL SITE PLAN
LIGHTING CALCULATION PLAN
2 OF 2

SHEET NUMBER

E1.10

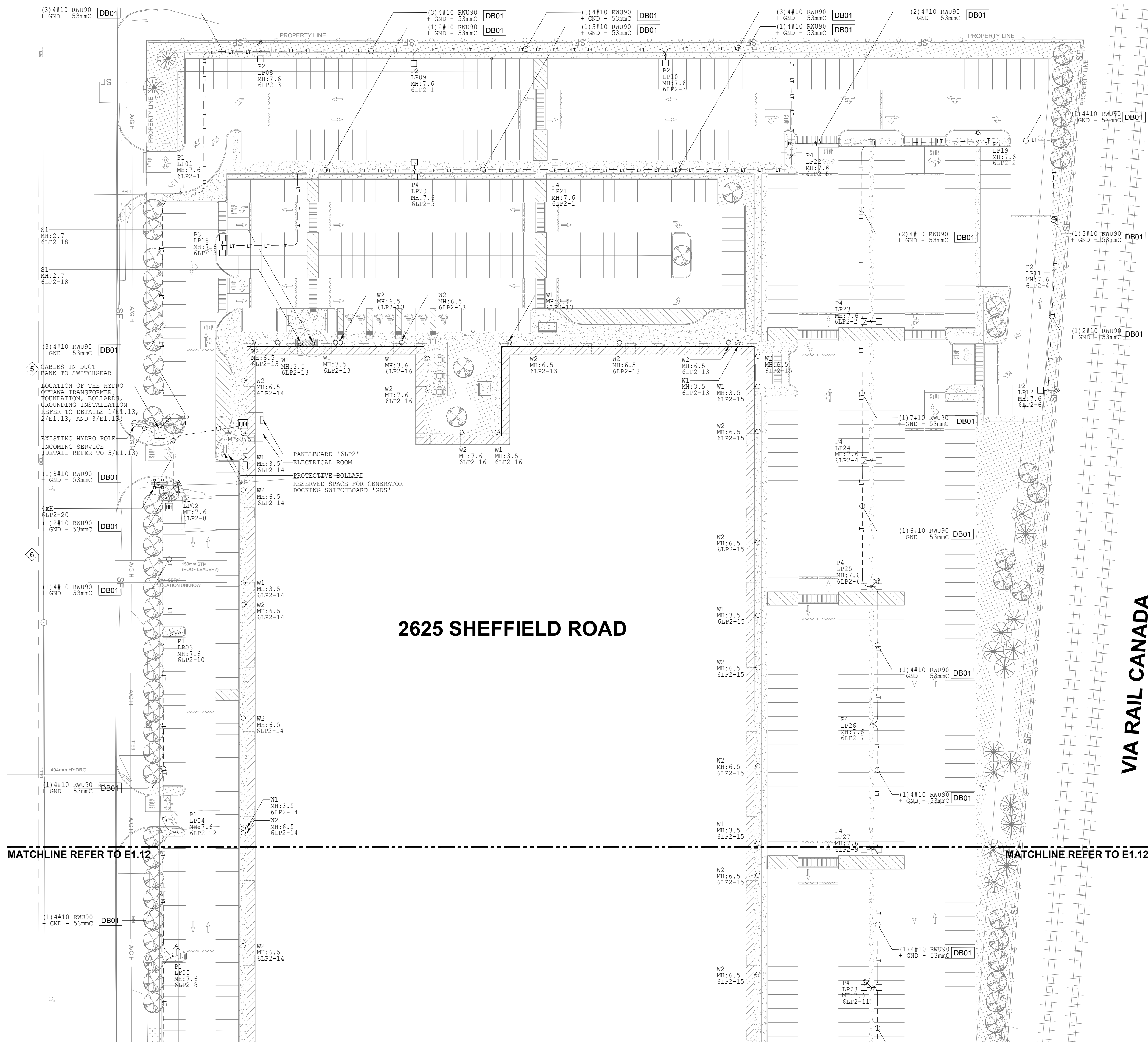
PLAN NO.: xxx

1 ELECTRICAL SITE PLAN - LIGHTING CALCULATION - 2 OF 2

E1.10 1:500

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2625 SHEFFIELD ROAD

VIA RAIL CANADA

NOTES:

- REFER TO DRAWING E1.09 & E 1.10 FOR SITE PLAN LIGHTING PHOTOMETRIC PLAN.
- REFER TO DRAWING E1.13 FOR LUMINAIRE SCHEDULE AND POLE SCHEDULE.
- WHERE CIVIL PIPE (I.E. WATER MAIN, SANITARY, STORM, ETC) AND GAS LINE INTERFERE WITH THE ELECTRICAL DUCT BANKS OR WHERE DUCT BANKS CROSS EACH OTHER, CONSTRUCT THE ELECTRICAL DUCT BANK UNDERNEATH OR ABOVE THE AFOREMENTIONED SERVICES BUT MAINTAIN THE MINIMUM BURIAL DEPTH OF 760mm FROM THE FINISH GRADE TO THE TOP OF THE DUCT BANK.
- NOT USED.
- CONTRACTOR TO COORDINATE WITH HYDRO OTTAWA (LOCAL UTILITY SERVICE PROVIDER) FOR POWER RECONNECTION OF NEW MAIN SWITCHBOARD LOCATED AT THE MAIN ELECTRICAL ROOM.
- PROVIDE POWER CONNECTIONS FOR MONUMENT SIGN MS-1. 2#10AWG IN 53 mmC. COORDINATE EXACT LOCATION ON SITE. CONTRACTOR TO CONFIRM EXACT POWER REQUIREMENT AND PROVIDE STEP-DOWN TRANSFORMER AS REQUIRED.

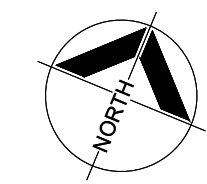


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KEY PLAN

PROJECT NUMBER

60648725

SHEET TITLE

ELECTRICAL SITE PLAN
BURIED SERVICES - NEW WORK
1 OF 2

SHEET NUMBER

E1.11

PLAN NO.: xxx

1 ELECTRICAL SITE PLAN - BURIED SERVICES - NEW WORK - 1 OF 2
E1.11 1:500

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NOTES:

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- REFER TO DRAWING E1.13 FOR LUMINAIRE SCHEDULE AND POLE SCHEDULE.
- WHERE CIVIL PIPE (I.E. WATER MAIN, SANITARY, STORM, ETC) AND GAS LINE INTERFERE WITH THE ELECTRICAL DUCT BANKS OR WHERE DUCT BANKS CROSS EACH OTHER, CONSTRUCT THE ELECTRICAL DUCT BANK UNDERNEATH OR ABOVE THE AFOREMENTIONED SERVICES BUT MAINTAIN THE MINIMUM BURIAL DEPTH OF 760mm FROM THE FINISH GRADE TO THE TOP OF THE DUCT BANK.



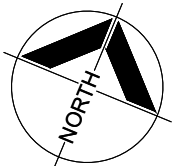
PROJECT
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PROJECT NUMBER

60648725

SHEET TITLE

ELECTRICAL SITE PLAN
BURIED SERVICES - NEW WORK
2 OF 2

SHEET NUMBER

E1.12

PLAN NO.: xxx

1 ELECTRICAL SITE PLAN - BURIED SERVICES - NEW WORK - 2 OF 2

E1.12 1:500

NOT FOR CONSTRUCTION

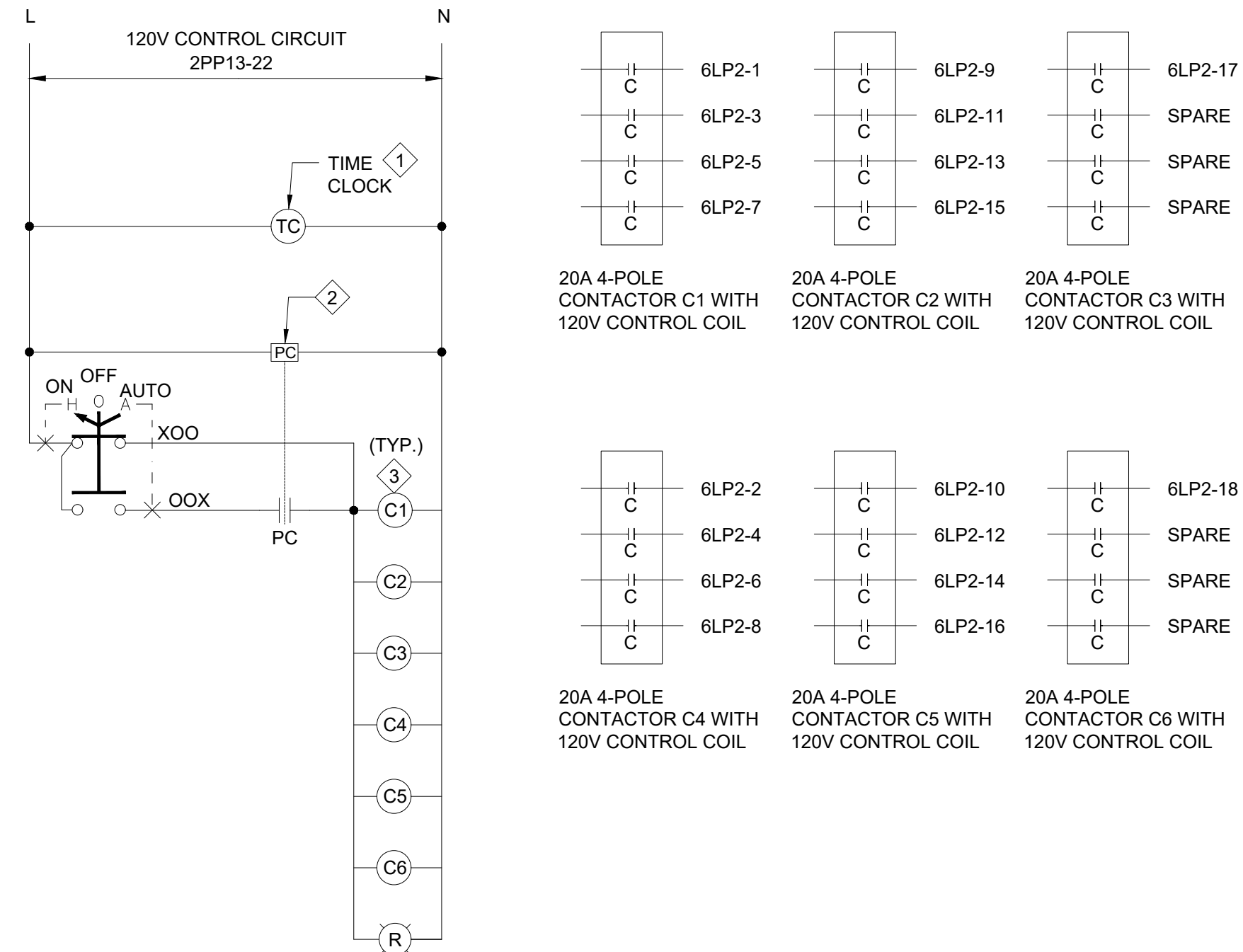
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SITE LUMINAIRE SCHEDULE									
SYMBOL & TYPE MARK	MANUFACTURER / MODEL	LAMP TYPE	VOLTS	INPUT WATTS	LUMEN	MOUNTING	QTY	MANUFACTURER'S CATALOG NUMBER	NOTES
P1	COOPER GLEON GALLEON OR APPROVED EQUAL	LED	347V	65W	7116 DELIVERED LUMEN	POLE MOUNTED @ 7.6m	7	GALN-SA1D-730-U-SL2	SINGLE FIXTURE
P2	COOPER GLEON GALLEON OR APPROVED EQUAL	LED	347V	125W	11654 DELIVERED LUMEN	POLE MOUNTED @ 7.6m	10	GLEON-SA2C-730-347-SL4-HSS	SINGLE FIXTURE
P3	COOPER GLEON GALLEON OR APPROVED EQUAL	LED	347V	184W	22058 DELIVERED LUMEN	POLE MOUNTED @ 7.6m	2	GALN-SA3D-730-U-SMQ	TWO (2) FIXTURES MOUNTED IN BACK-TO-BACK ARRANGEMENT
P4	COOPER GLEON GALLEON OR APPROVED EQUAL	LED	347V	245W	29169 DELIVERED LUMEN	POLE MOUNTED @ 7.6m	11	GALN-SA4D-730-U-5WQ	TWO (2) FIXTURES MOUNTED IN BACK-TO-BACK ARRANGEMENT
W1	COOPER GLEON GALLEON OR APPROVED EQUAL	LED	347V	37.7W	3995 DELIVERED LUMEN	WALL MOUNTED @ 3.5m	17	XTOR4B-Y-347	MOUNTED ON BUILDING EXTERIOR
W2	COOPER GLEON GALLEON OR APPROVED EQUAL	LED	347V	125W	14137 DELIVERED LUMEN	WALL MOUNTED @ 6.5m AND 7.5m	31	GALN-SA2D-730-U-T4FT	MOUNTED ON BUILDING EXTERIOR
S1	COOPER LIGHTING SOLUTIONS OR APPROVED EQUAL	LED	347V	15.8W	1396 DELIVERED LUMEN	UNDER CANOPY MOUNTED REFER TO SITE PLAN	2	LX6C15D010 EX6C159030 6LBWH	MOUNTED ON OFFICE BUILDING ENTRANCE UNDER CANOPY AREA
H	COOPER NFFLD-S OR APPROVED EQUAL	LED	347V	52W	5337 DELIVERED LUMEN	GRADE MOUNTED	2	NFFLD-S-C15-D-347-33-T-7030	GRADE MOUNTED ON SITE TO ILLUMINATE SITE SIGNAGE MS-1 AND MS-2.

NOTES:

- CONTRACTOR SHALL ORDER OPTIONS, FEATURES OR ACCESSORIES TO SUIT THE INSTALLATION REFER TO DRAWING.
- ALL LIGHTS ARE DARK SKY COMPLIANT.

1 SITE LUMINAIRE SCHEDULE
E1.13 N.T.S.

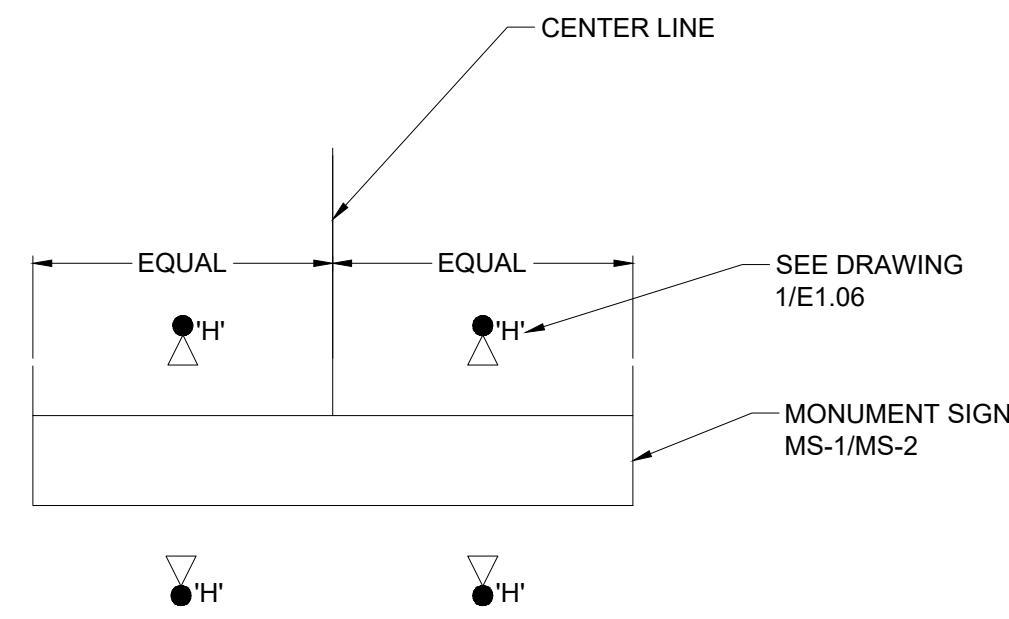


NOTE:

- PROVIDE A 7-DAY 24-HOUR 120V TIMECLOCK EQUAL TO INTERMATIC, PART NO.: T1905. TIME CLOCK AND CONTRACTOR TO BE MOUNTED ABOVE ELECTRICAL PANEL UNLESS OTHERWISE SHOWN ON DRAWINGS.
- PROVIDE A 120V PHOTOCELL EQUAL TO INTERMATIC PART NO.:K4136M. PHOTOCELL TO BE MOUNTED ON NORTH FACE OF BUILDING WITH WEATHERPROOF JUNCTION BOX.
- PROVIDE 20A RATED CONTACTORS WITH 347V COILS AND 347/120V CONTROL TRANSFORMERS. CONTACTORS TO BE MOUNTED BESIDE TIMECLOCK. PROVIDE SUFFICIENT CONTACT POLES FOR EACH LIGHTING CIRCUITS.

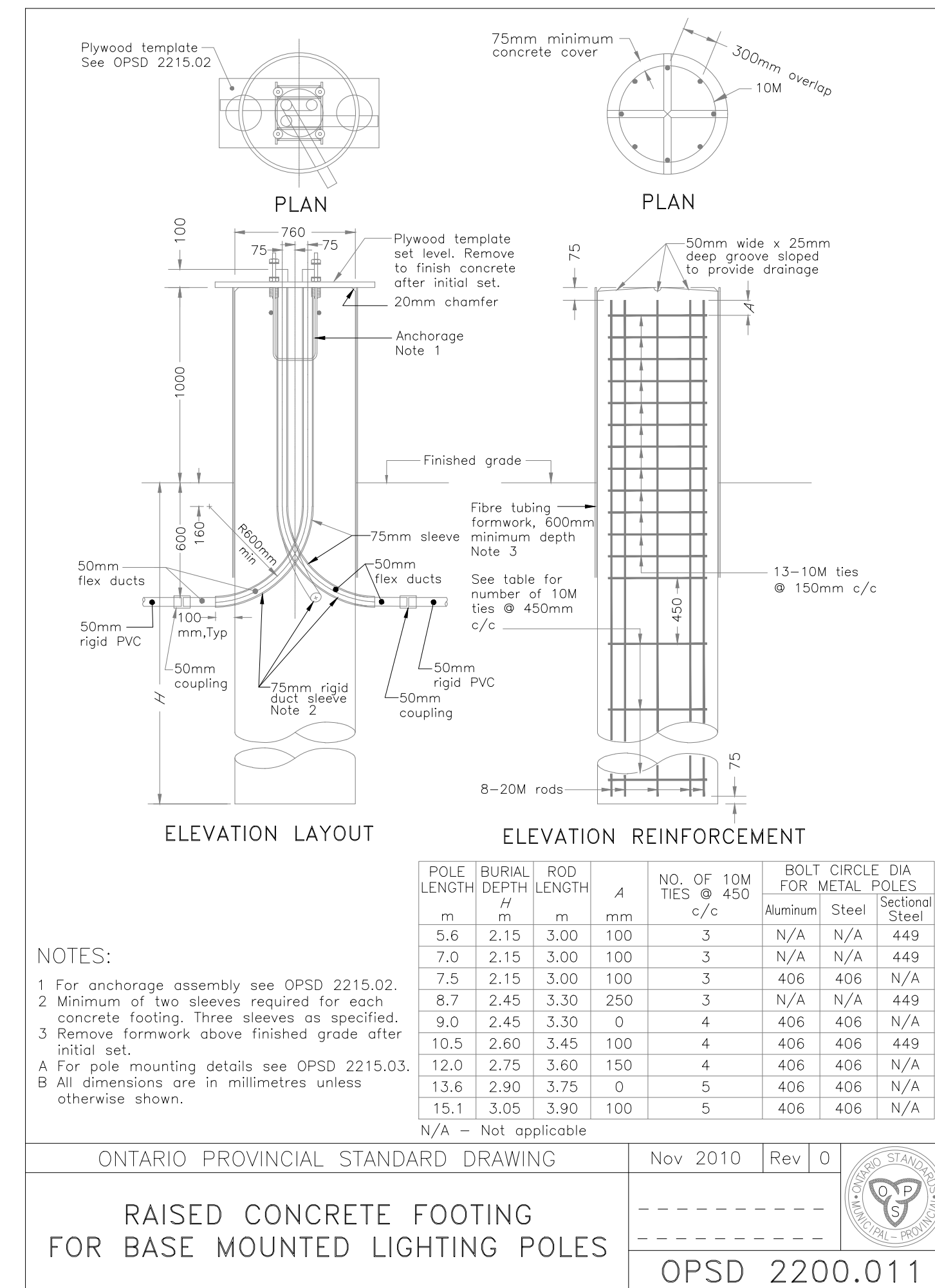
3 EXTERIOR LIGHTING CONTROL SCHEMATIC
E1.13 N.T.S.

4 MONUMENT / PYLON SIGN DETAILS
E1.13 N.T.S.



POLE SCHEDULE					
POLE NUMBER	FIXTURE TYPE	TOTAL WATTS	MOUNTING HEIGHT	POLE HEIGHT	REMARKS
LP01, LP02, LP03, LP04, LP05, LP06, LP07	P1	65W	7.6m	7.5m	SINGLE (1) FIXTURE MOUNTED ON NEW POLE
LP08, LP09, LP10, LP11, LP12, LP13, LP14, LP15, LP16, LP17	P2	125W	7.6m	7.5m	SINGLE (1) FIXTURE MOUNTED ON NEW POLE
LP18, LP19	P3	184W	7.6m	7.5m	TWO (2) FIXTURES MOUNTED IN BACK-TO-BACK ARRANGEMENT ON NEW POLE
LP21, LP22, LP23, LP24, LP25, LP26, LP27, LP28, LP29, LP30	P4	245W	7.6m	7.5m	TWO (2) FIXTURES MOUNTED IN BACK-TO-BACK ARRANGEMENT ON NEW POLE

2 EXTERIOR LIGHTING POLE SCHEDULE
E1.13 N.T.S.



5 POLE BASE DETAIL
E1.13 N.T.S.

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PROJECT NUMBER

60648725

SHEET TITLE

ELECTRICAL SITE PLAN
LIGHTING DETAILS

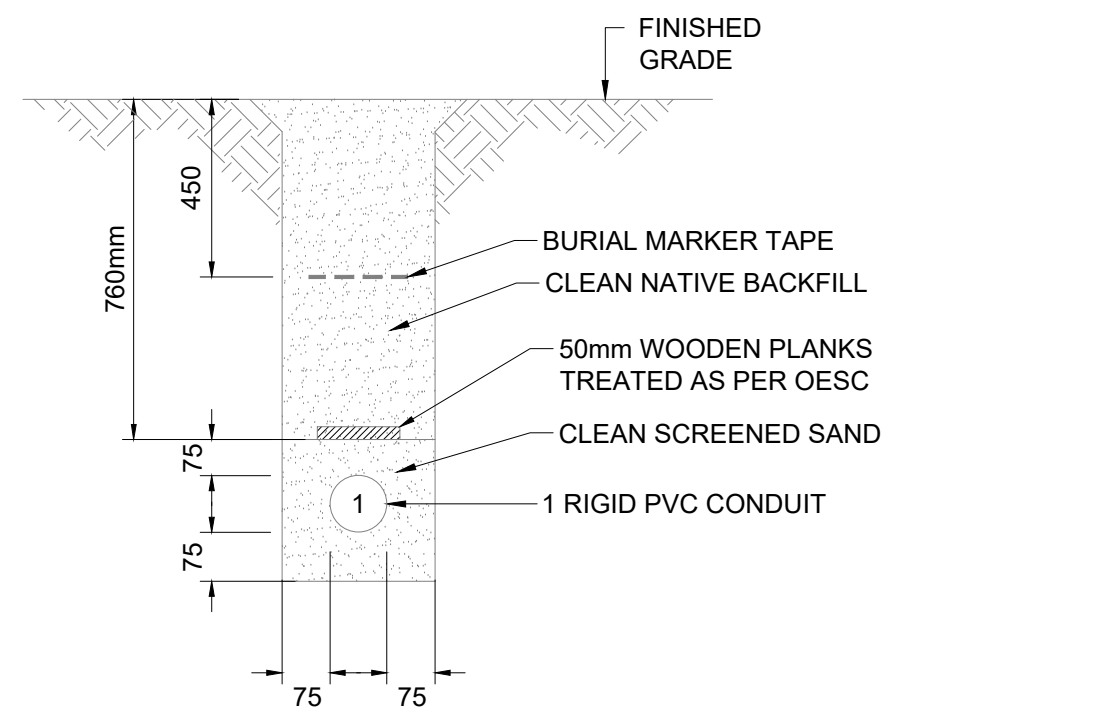
SHEET NUMBER

E1.13

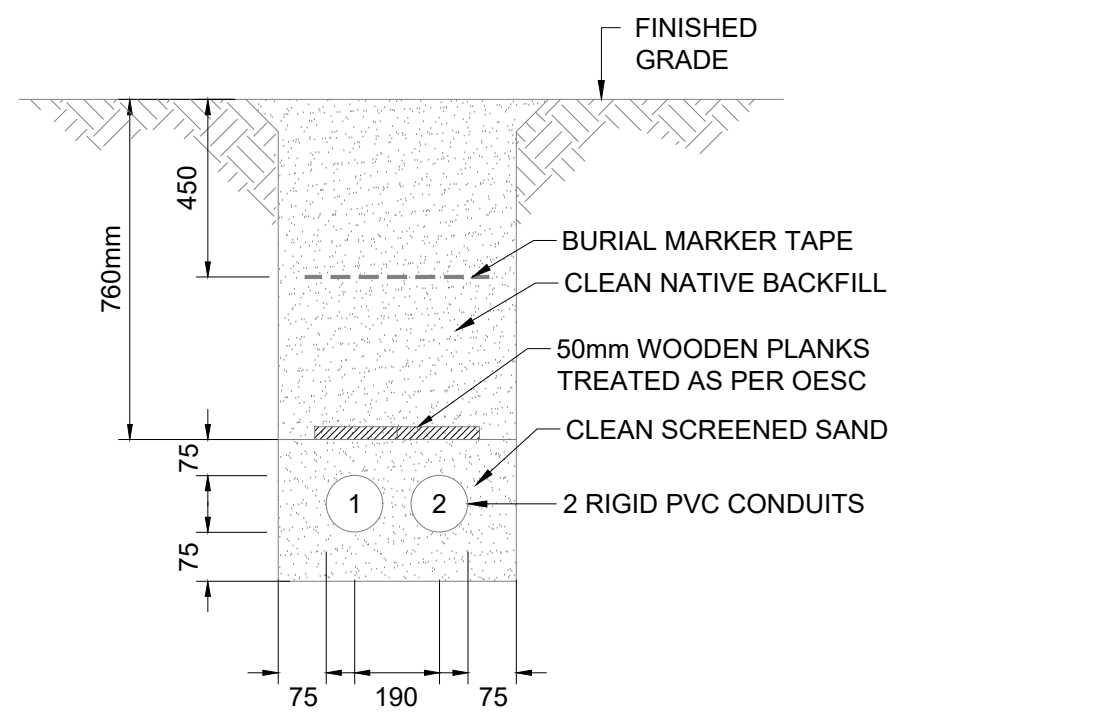
PLAN NO.: xxx

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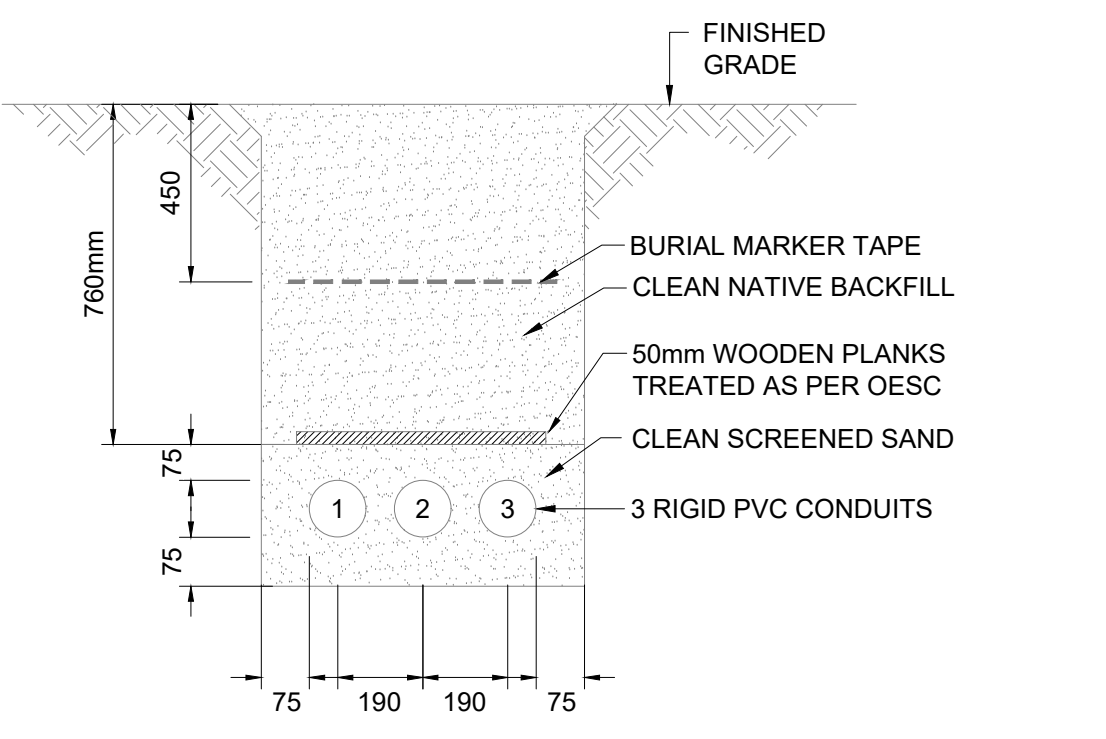
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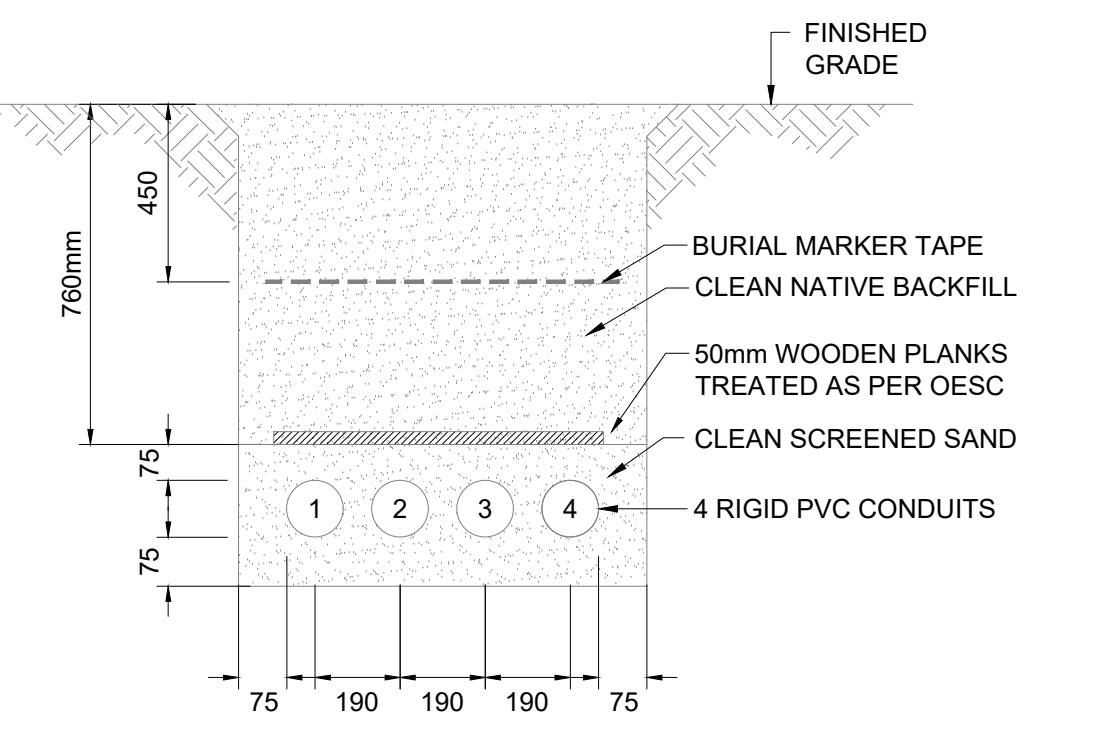
1 UNDERGROUND CONDUIT - 1 CONDUIT
DIRECT BURIED - DB01 N.T.S.



2 UNDERGROUND CONDUIT - 2 CONDUITS
DIRECT BURIED - DB02 N.T.S.



3 UNDERGROUND CONDUIT - 3 CONDUITS
DIRECT BURIED- DB03 N.T.S.



4 UNDERGROUND CONDUIT - 4 CONDUITS
DIRECT BURIED- DB04 N.T.S.

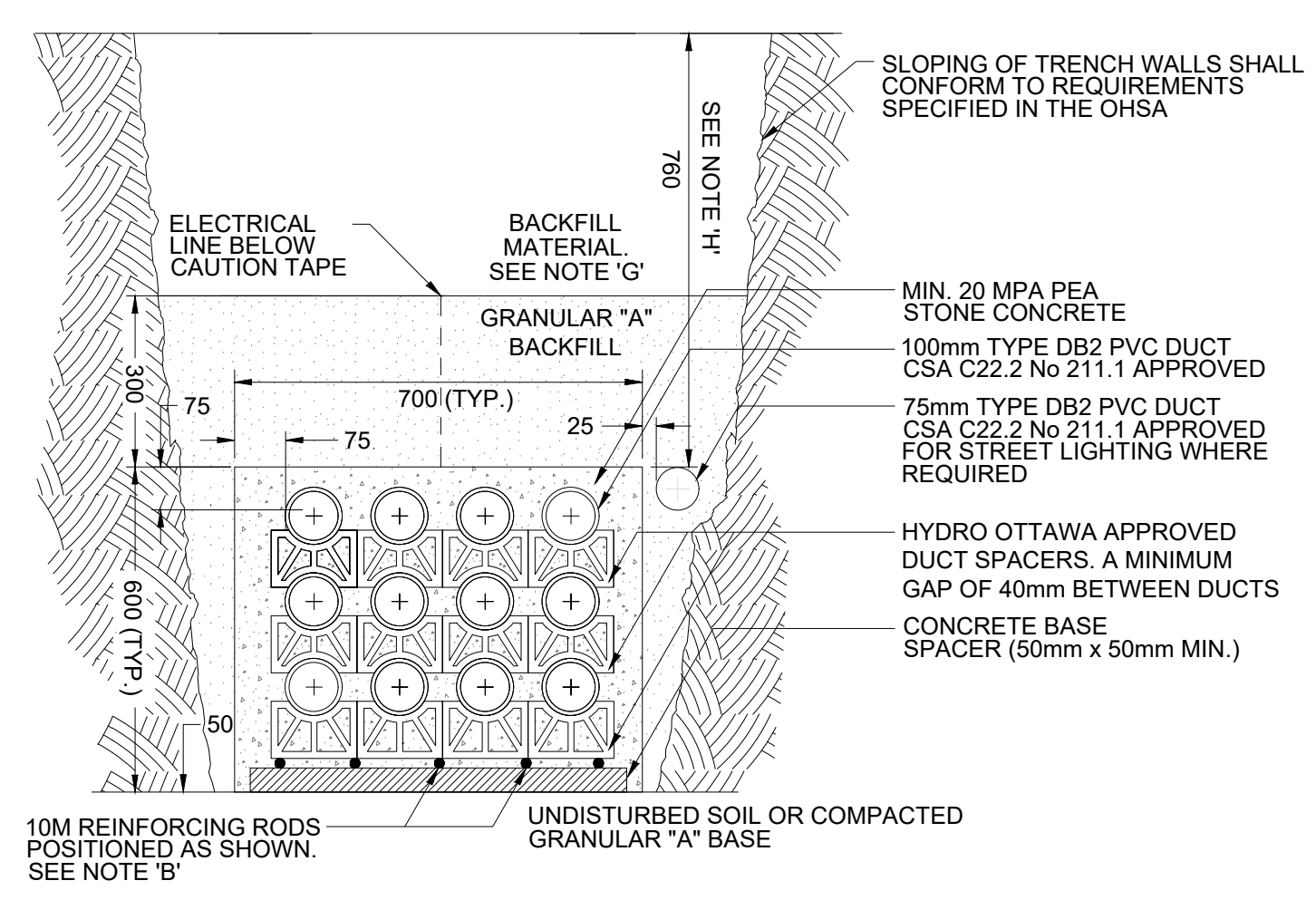
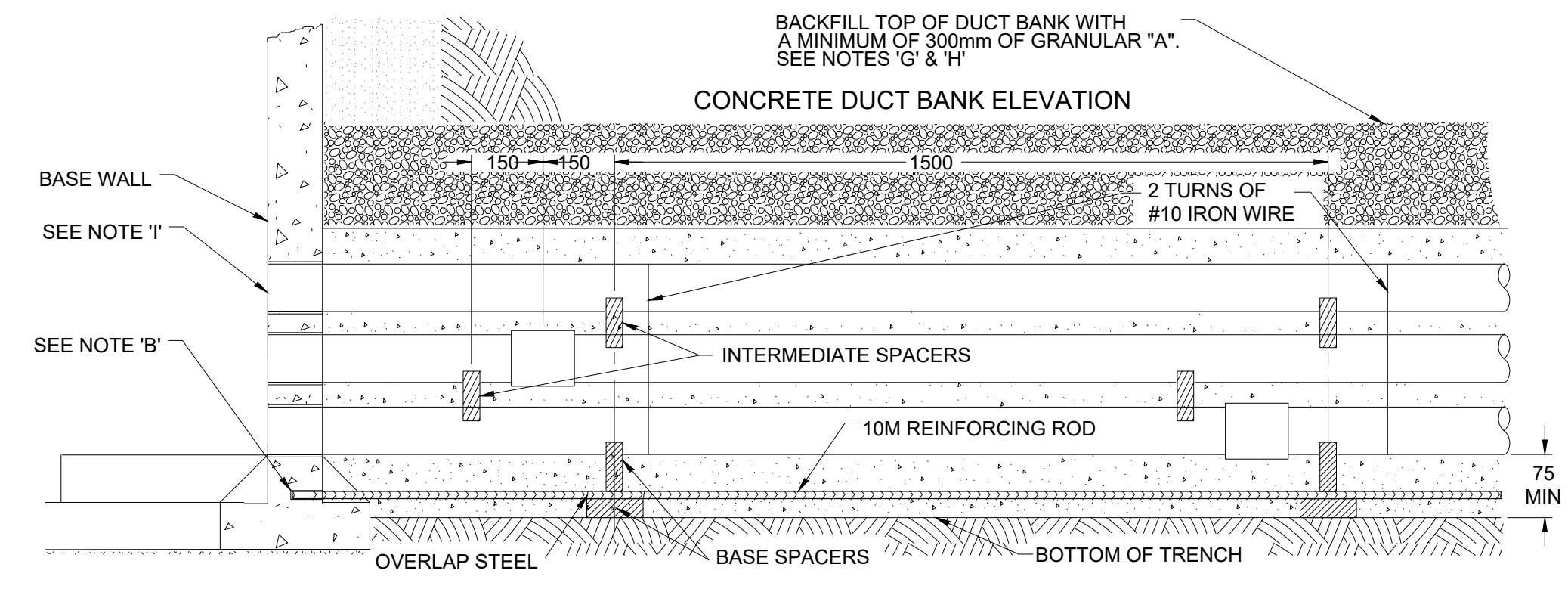


FIG 1. TYPICAL CONCRETE DUCT BANK SECTION VIEW

5 UNDERGROUND CONDUIT - 12 CONDUITS
HYDRO OTTAWA - UDS0001 N.T.S.

NOTES:

- A. ALL MEASUREMENTS ARE IN MILLIMETRES UNLESS OTHERWISE NOTED.
- B. REINFORCING RODS FULL LENGTH OF CONCRETE ENCASED DUCTS. OVERLAP JOINTS BY 150mm ON BASE SPACERS AND TIE BOTH ENDS. DRILL AND DOWEL RODS 85mm INTO WALL(S) OF CONCRETE STRUCTURE.
- C. DUCT SPACERS TO BE PLACED AT A MAXIMUM OF 150mm AND WITHIN 150mm OF COUPLING. PLASTIC DUCT SPACERS TO BE USED ONLY IF CONCRETE DUCT SPACERS ARE UNAVAILABLE.
- D. FORMS REQUIRED FOR BOTH SIDES OF THE FULL LENGTH OF CONCRETE ENCASED DUCT STRUCTURE.
- E. DUCTS AND TRENCHES MUST BE INSPECTED BY HYDRO OTTAWA BEFORE ANY CONCRETE IS POURED.
- F. CONTRACTOR MUST ENSURE THAT ALL DUCTS ARE CLEANED, RODDED AND THAT A 8mm [3/8"] POLYPROPYLENE ROPE IS LEFT IN EACH DUCT.
- G. ALL BACKFILL MATERIAL MUST BE APPROVED BY HYDRO OTTAWA INSPECTOR; FOR ACCEPTABLE BACKFILL MATERIAL, SEE HYDRO OTTAWA SPECIFICATION DOCUMENT GCS0005 SECTION 6.1.5.
- H. STEEL PLATES ARE TO BE USED IF THE COVER OVER THE DUCT BANK IS LESS THAN 450mm. THE PLATES ARE TO BE 6.5mm [1/4"] IN THICKNESS AND THE WIDTH OF THE DUCT BANK BEING COVERED. ANY DEVIATION FROM THE STANDARD COVER OF 760mm MUST BE APPROVED BY THE HYDRO OTTAWA INSPECTOR. IF COVER IS LESS THAN 300mm, A TECHNICAL DEVIATION IS REQUIRED.
- I. BELL ENDS ARE TO BE USED WHEN TERMINATING DUCTS IN STRUCTURES.

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PROJECT NUMBER

60648725

SHEET TITLE

ELECTRICAL SITE PLAN
DUCT BANK DETAILS

SHEET NUMBER

E1.14

PLAN NO.: xxx

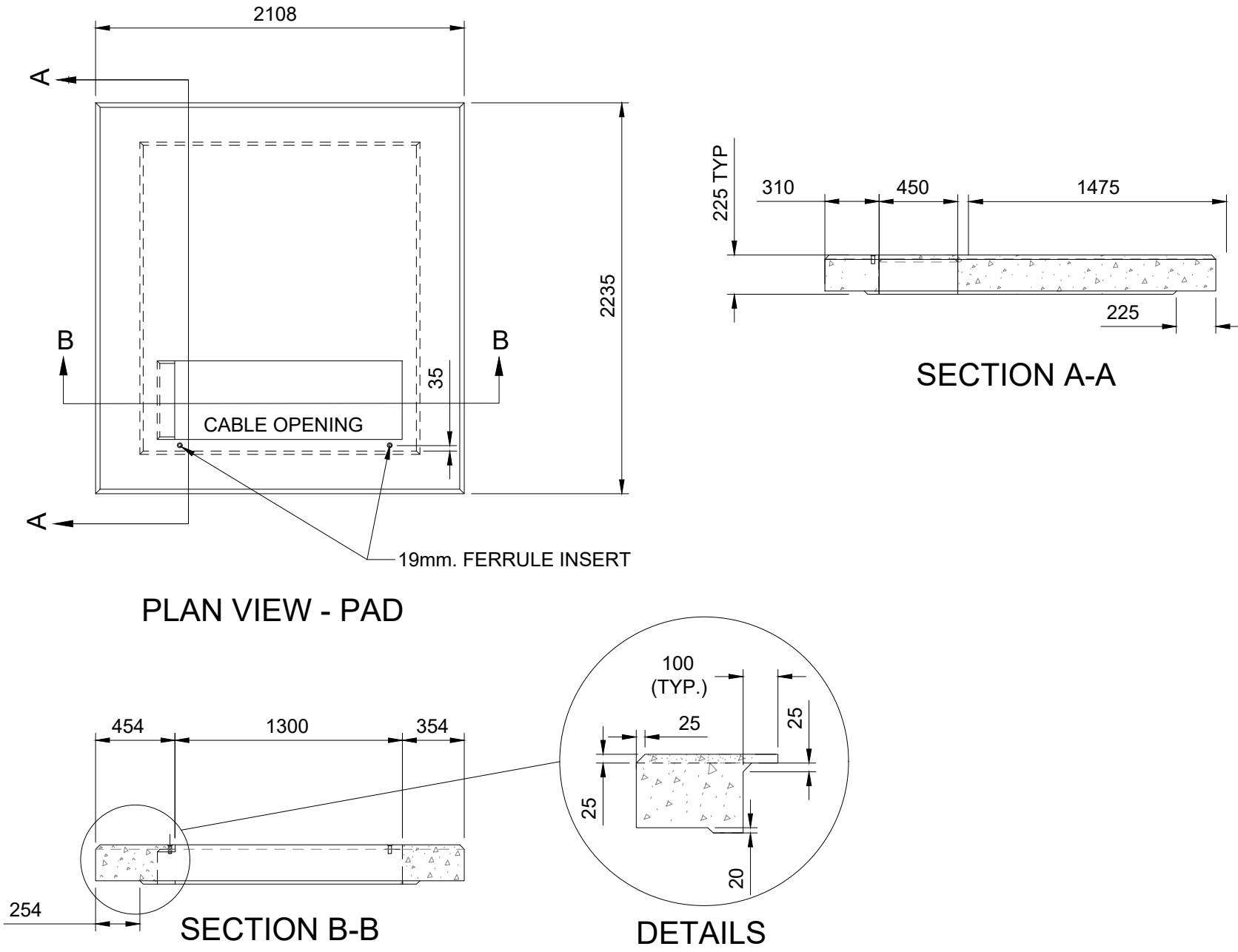
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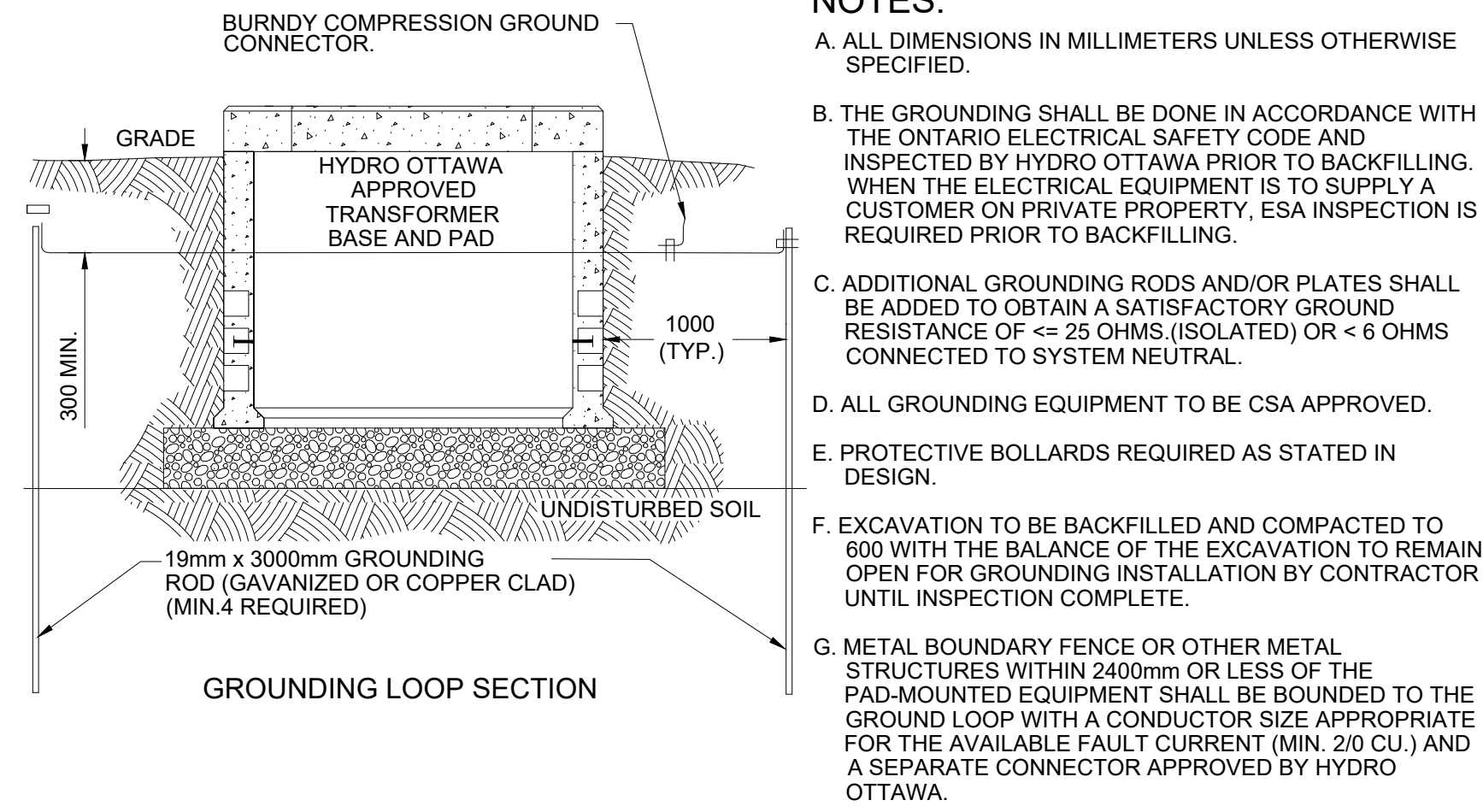
SPECIFIED LIVE LOADING REQUIREMENTS	
DISTRIBUTED LATERAL LOAD ①	25 kN/m ²
TOP SLAB UNIFORMLY DISTRIBUTED LOAD ②	60 kN/m ²
TOP SLAB POINT LOAD ③	70 kN

① BASED ON LATERAL LOADS FROM WATER TABLE AT SURFACE, SOIL AND SURCHARGE FROM WHEEL LOAD.
② BASED ON THE WEIGHT OF A 2500kVA TRANSFORMER OF 73.87kN (7530kg).
③ BASED ON WHEEL LOAD OF CL-625 ONTARIO TRUCK FROM CAN/CSA S6-06 LATEST EDITION.

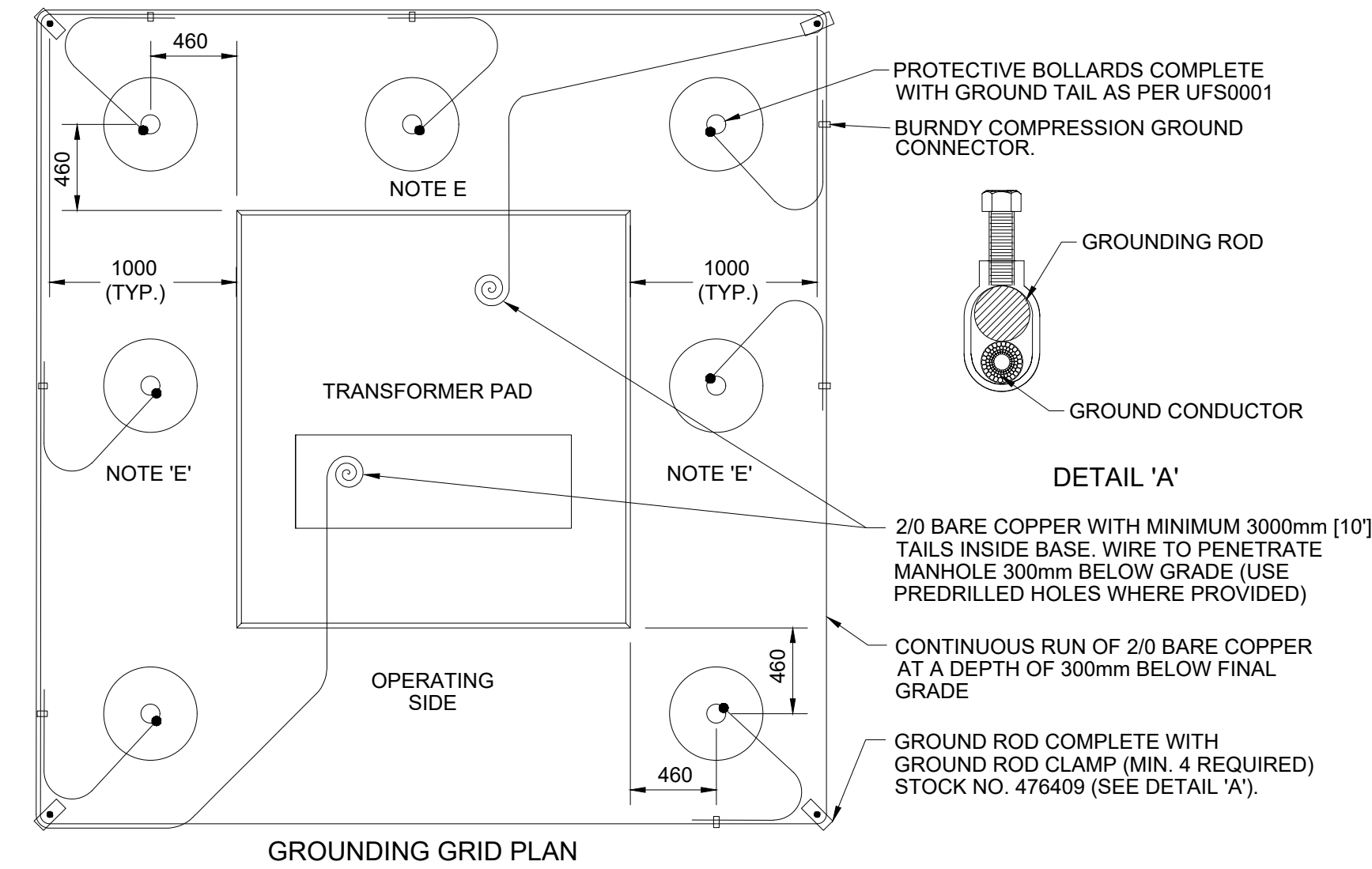
- NOTES:**
- A. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE INDICATED.
 - B. CONCRETE - 35 MPa, AND SHALL MEET REQUIREMENTS OF CSA A23.1 LATEST EDITION FOR CONCRETE EXPOSED TO DE-ICING CHEMICALS. AIR CONTENT 5-8%, C1-CLASS OF EXPOSURE.
 - C. REINFORCING STEEL - 400MPa, MINIMUM 40mm COVER.
 - D. PAD SHALL BE PROVIDED WITH SWIFT LIFT SYSTEM TO ACCOMMODATE INSTALLATION AND REMOVAL.
 - E. PAD DESIGNED TO FIT UCS0025 SWITCHING MANHOLE BASE.



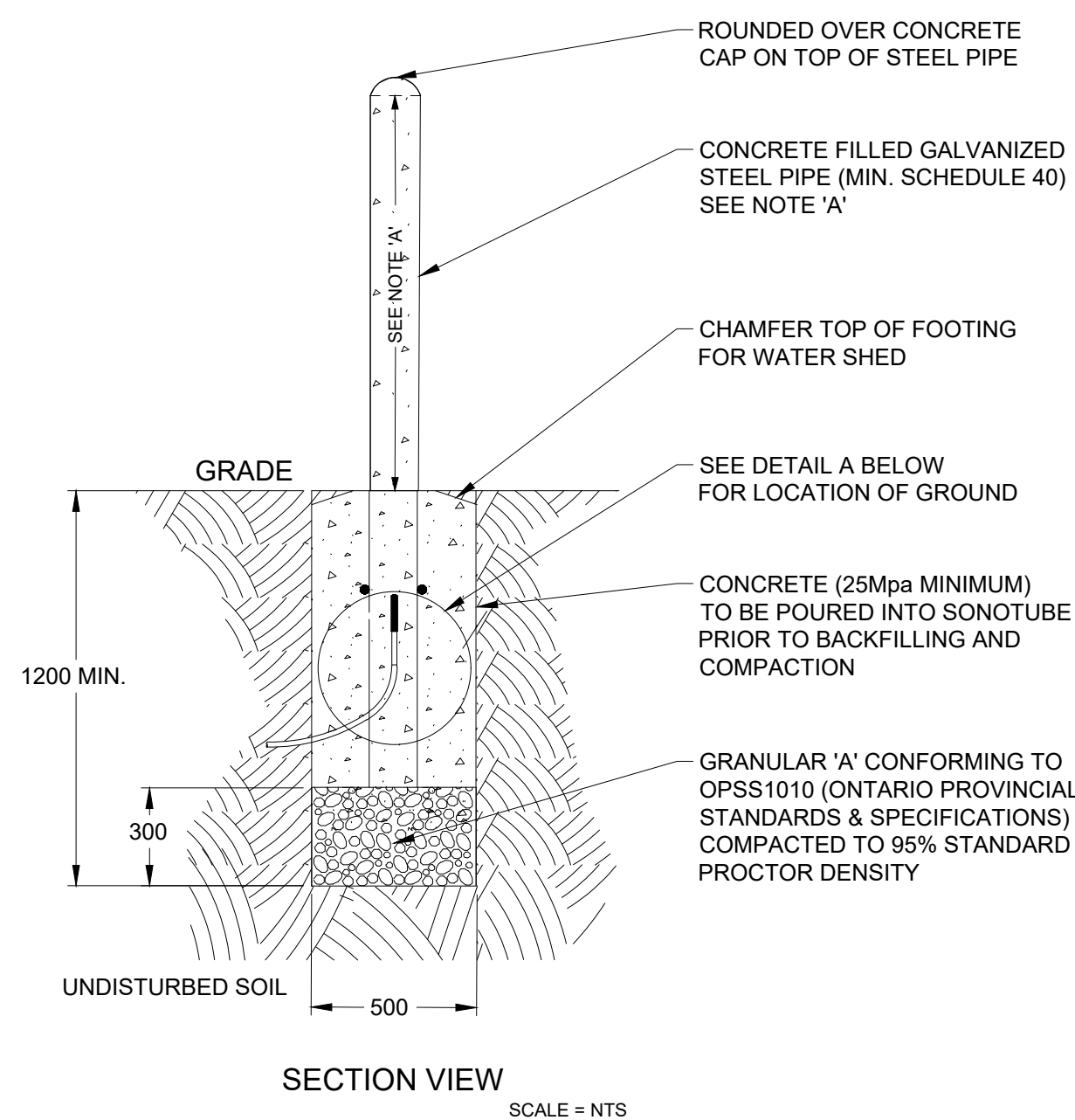
1 TRANSFORMER PAD ON 612 EQUIPMENT MAINTENANCE HOLE BASE 3 PHASE
HYDRO OTTAWA - UCS0035 N.T.S.



- NOTES:**
- A. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
 - B. THE GROUNDING SHALL BE DONE IN ACCORDANCE WITH THE ONTARIO ELECTRICAL SAFETY CODE AND INSPECTED BY HYDRO OTTAWA PRIOR TO BACKFILLING. WHEN THE ELECTRICAL EQUIPMENT IS TO SUPPLY A CUSTOMER ON PRIVATE PROPERTY, ESA INSPECTION IS REQUIRED PRIOR TO BACKFILLING.
 - C. ADDITIONAL GROUNDING RODS AND/OR PLATES SHALL BE ADDED TO OBTAIN A SATISFACTORY GROUND RESISTANCE OF <= 25 OHMS (ISOLATED) OR < 6 OHMS CONNECTED TO SYSTEM NEUTRAL.
 - D. ALL GROUNDING EQUIPMENT TO BE CSA APPROVED.
 - E. PROTECTIVE BOLLARDS REQUIRED AS STATED IN DESIGN.
 - F. EXCAVATION TO BE BACKFILLED AND COMPACTED TO 600 WITH THE BALANCE OF THE EXCAVATION TO REMAIN OPEN FOR GROUNDING INSTALLATION BY CONTRACTOR UNTIL INSPECTION COMPLETE.
 - G. METAL BOUNDARY FENCE OR OTHER METAL STRUCTURES WITHIN 2400mm OR LESS OF THE PAD-MOUNTED EQUIPMENT SHALL BE BOUNDED TO THE GROUND LOOP WITH A CONDUCTOR SIZE APPROPRIATE FOR THE AVAILABLE FAULT CURRENT (MIN. 2/0 CU) AND A SEPARATE CONNECTOR APPROVED BY HYDRO OTTAWA.



2 GROUNDING TRANSFORMER
HYDRO OTTAWA - UGS0002 N.T.S.

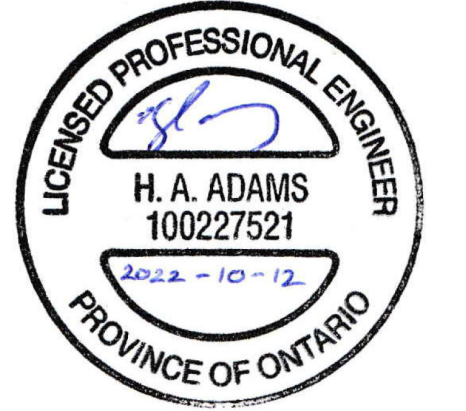


- NOTES:**
- A. PROTECTIVE BOLLARD PIPE DIMENSIONS:
 - i. FOR SINGLE PHASE TRANSFORMERS IN:
 - LOW IMPACT AREAS - HEIGHT 900mm, DIA 100mm.
 - HIGH IMPACT AREAS - HEIGHT 1200mm, DIA 150mm (AT HYDRO OTTAWA'S DISCRETION).
 - ii. FOR THREE PHASE TRANSFORMERS/SWITCHES IN ALL AREAS - HEIGHT 1200mm, DIA 150mm.
 - B. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE INDICATED.
- DETAIL A**
Shows detail of ERITECH ARC WELDABLE BOND PART NO. EWB2G9164 for installation.

3 BOLLARDS PROTECTIVE CONSTRUCTION DETAIL
HYDRO OTTAWA - UFS0001 N.T.S.

NOTE:
IT IS THE RESPONSIBILITY OF THE CONTRACTORS TO INFORM THEMSELVES OF THE EXACT LOCATION OF AND ASSUME ALL LIABILITY FOR DAMAGE TO ALL UTILITIES SERVICES AND STRUCTURES WHETHER ABOVE GROUND OR BELOW GRADE BEFORE COMMENCING THE WORK. SUCH INFORMATION IS NOT NECESSARILY SHOWN ON THE DRAWING, AND WHERE SHOWN, THE ACCURACY CANNOT BE GUARANTEED.

WITH THE SOLE EXCEPTION OF THE BENCHMARK(S) SPECIFICALLY DESCRIBED FOR THIS PROJECT, NO ELEVATION INDICATED OR ASSUMED HEREON IS TO BE USED AS A REFERENCE ELEVATION FOR ANY PURPOSE.



I/R	DATE	DESCRIPTION
2	2022-10-07	ISSUED FOR SPA
1	2022-08-30	LANDLORD REVIEW - SPA SET

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