

**ESTIMATED ELECTRICAL LOADS**

SHORE POWER BUILDING:  
 NEW DEDICATED 1200A 120/208V 3PH 4W SERVICE FROM UTILITY OWNED 500 KVA TRANSFORMER

- 13 TRUCKS @10.8KVA EACH = 140.4KVA
- BUILDING LOADS (A/C, LIGHTS, ETC...) = 5.43KVA
- TOTAL CONNECTED LOAD OF 145.83KVA @ TIME OF CONNECTION

• FUTURE LOADS OF AN ADDITIONAL 23 TRUCKS @10.8KVA EACH = 248.4KVA

- TOTAL FUTURE CONNECTED LOAD 394.23KVA

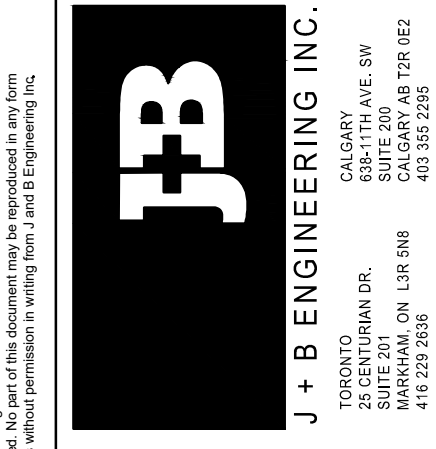
**GENERAL NOTES:**

1. THE CONTRACTOR SHALL APPLY FOR, OBTAIN AND PAY FOR ALL PERMITS, LICENSES, INSPECTIONS, EXAMINATIONS AND FEES REQUIRED.
2. THE CONTRACTOR SHALL PROVIDE ALL LABOUR, MATERIAL AND EQUIPMENT (UNLESS OTHERWISE INDICATED) NECESSARY TO COMPLETE ALL WORK AS SHOWN ON THIS DRAWING SET.
3. CABLE/CONDUIT/DUCT BANKS ROUTING AND TERMINATIONS INSIDE PROPERTY LINE ARE DIAGRAMMATIC, SHOWING THE APPROXIMATE ARRANGEMENT. ACTUAL CABLE/CONDUIT POSITIONS SHALL BE DETERMINED TO SUIT FIELD CONDITIONS AND EQUIPMENT LOCATIONS. OBTAIN LOCATES BEFORE STARTING ANY WORK, INSIDE AND OUTSIDE SITE PROPERTY LINES.
4. COSTCO GC RESPONSIBLE FOR OBTAINING MUNICIPAL PERMITS FOR ALL WORKS WITHIN MUNICIPAL RIGHT-OF-WAYS. GENERAL CONTRACTOR IS TO COORDINATE CONSTRUCTION WITH UTILITY REPRESENTATIVES REGARDING SCHEDULING AND EXECUTION OF WORK.
5. ALL UTILITY DESIGNS ARE PRELIMINARY AND ARE PENDING APPROVAL FROM UTILITY RESPONSIBLE FOR SERVICE. GENERAL CONTRACTOR IS TO COORDINATE WITH UTILITY REPRESENTATIVES REGARDING SCHEDULING AND EXECUTION OF WORK.
6. FOR ADDITIONAL REQUIREMENTS REFER TO CONTRACT DOCUMENTATION.



DATE	DESCRIPTION	DRAWN	CHECKED
0	ISSUED FOR REVIEW / COORDINATION	EM	FJ
1	ISSUED FOR REVIEW / COORDINATION	AM	FJ
2	ISSUED FOR REVIEW / COORDINATION	AM	FJ
3	ISSUED FOR REVIEW / COORDINATION	AM	FJ
4	ISSUED FOR REVIEW / COORDINATION	AM	FJ
5	ISSUED FOR REVIEW / COORDINATION	AM	FJ
6	ISSUED FOR REVIEW / COORDINATION	AM	FJ
7	ISSUED FOR REVIEW / COORDINATION	AM	FJ
8	ISSUED FOR REVIEW / COORDINATION	AM	FJ
9	ISSUED FOR REVIEW / COORDINATION	AM	FJ
10	ISSUED FOR REVIEW / COORDINATION	AM	FJ

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10	ISSUED FOR REVIEW / COORDINATION	AM	FJ



NEWMARKET, ON  
 BUSINESS CENTER  
 18185 YONGE STREET  
 EAST GWHIMMER, ONTARIO  
 CANADA



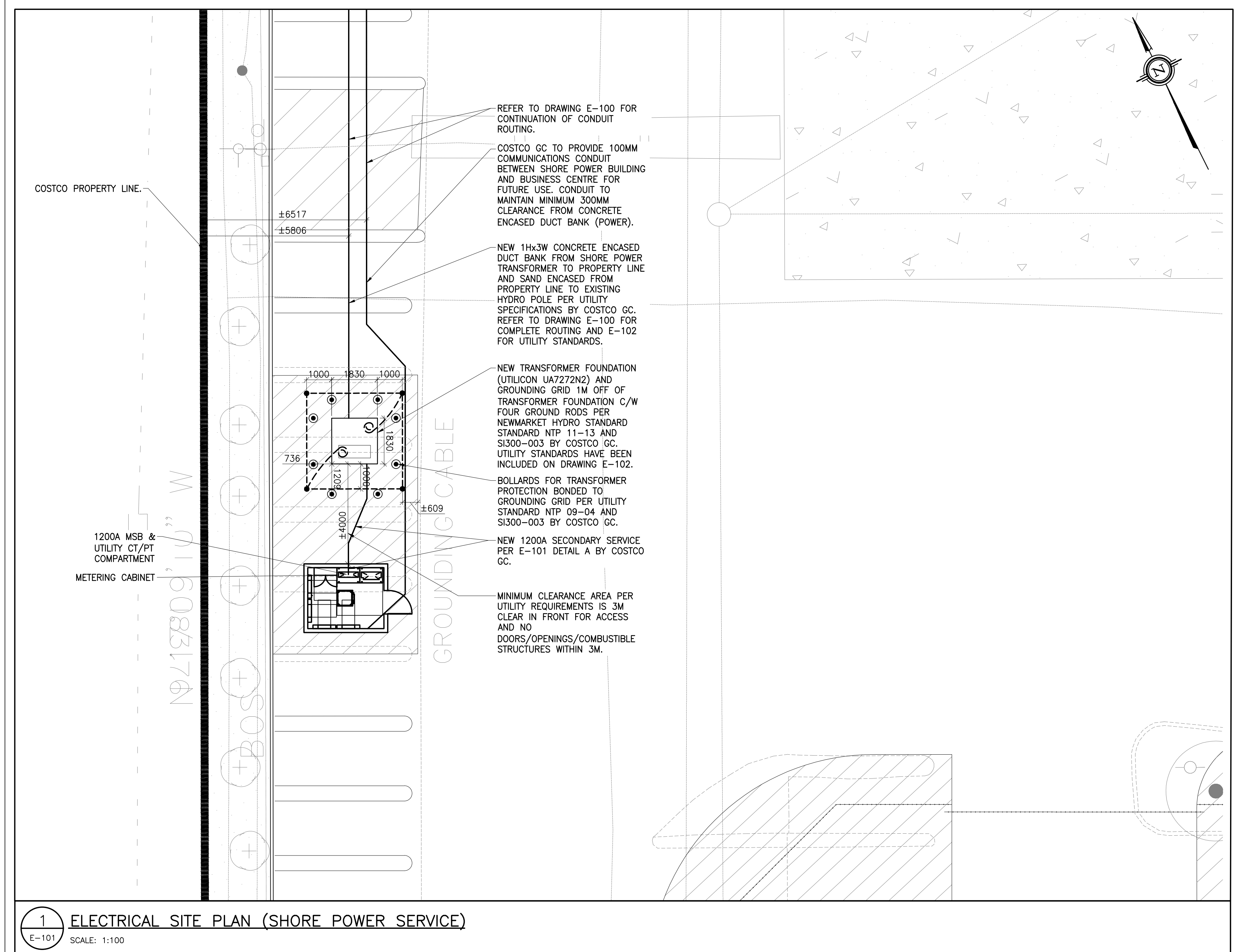
J+B # 210168  
 PM: FJ  
 CHECKED BY: GG  
 ISSUED: 26 JUL '21

ELECTRICAL SITE PLAN

E-100

**1** ELECTRICAL SITE PLAN  
 SCALE: 1:500

#0510



**1 ELECTRICAL SITE PLAN (SHORE POWER SERVICE)**  
E-101 SCALE: 1:100

**TYPICAL DUCT BANK CONSTRUCTION NOTES:**

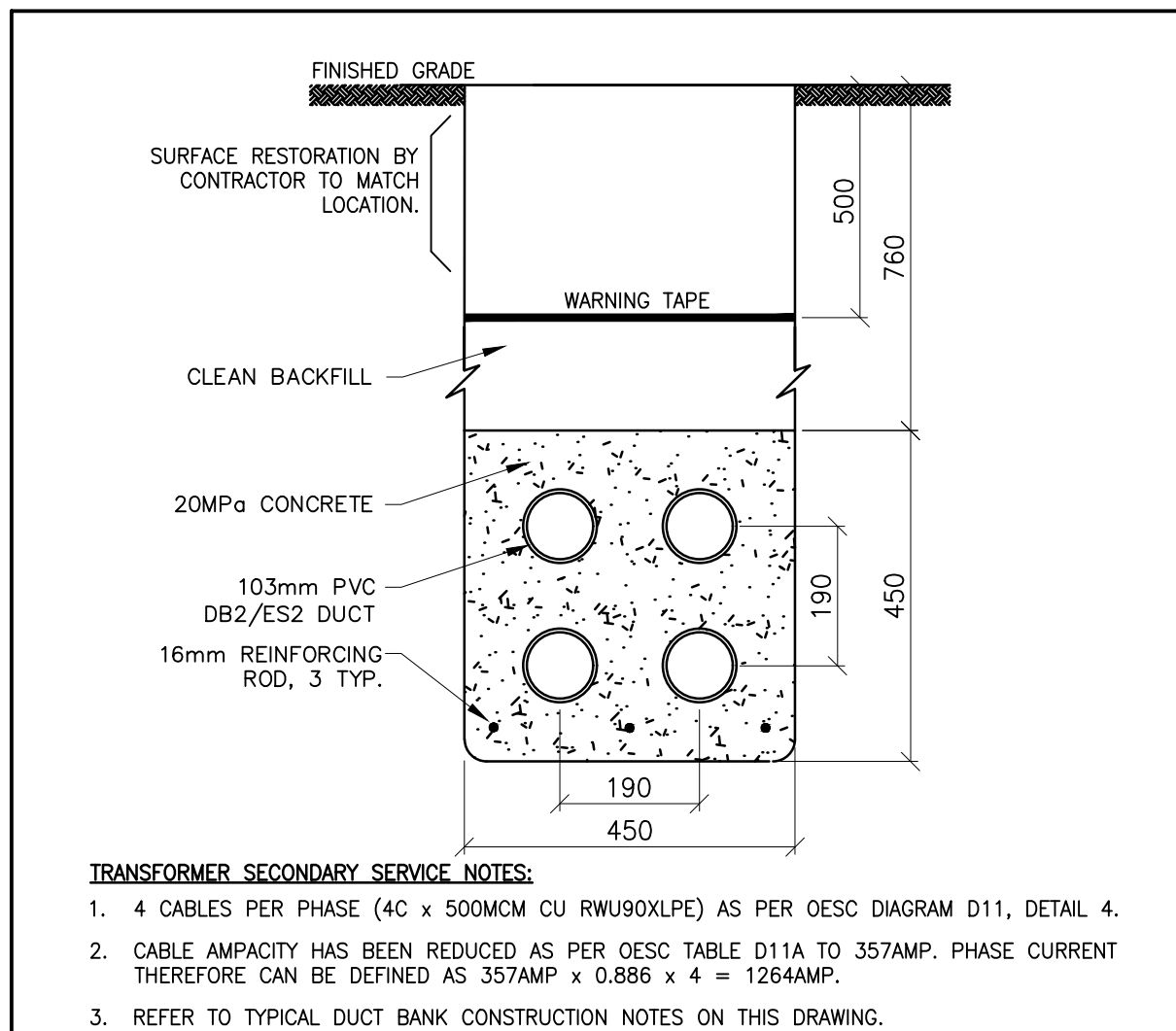
- DUCT SPACERS SHALL BE PLASTIC WITH 2 SPACERS PER 2m DUCT LENGTH & ANCHORED TO PREVENT SHIFTING DURING CONCRETE POUR.
- DUCT BANKS SHALL BE TERMINATED WITH BELL FITTINGS AT BOTH ENDS.
- DUCT JOINTS TO BE STAGGERED BY AT LEAST 200mm. USE APPROVED COUPLINGS FOR JOINTS PROVIDING A WATERTIGHT JOINT.
- DUCT BANK REINFORCING BARS MUST BE OVERLAPPED BY 600mm [24"].
- DUCTS SHALL HAVE A MINIMUM 75mm COVER ON ALL SIDES WITH THE COVER WORKED IN TO PROVIDE A HOMOGENEOUS MASS.
- SPARE DUCTS SHALL BE CAPPED WITH APPROVED DUCT CAPS.
- DUCTS SHALL BE LAID TO SLOPE 3" PER 100' TOWARDS MANHOLES OR DUCT ENDS FOR DRAINAGE.
- DUCT BANKS SHALL BE INSPECTED BY THE AUTHORITY HAVING JURISDICTION PRIOR TO BACKFILLING.
- A 15mm [1/2"] POLY ROPE SHALL BE INSTALLED IN EACH DUCT, TIED OFF AT EACH END.
- DUCTS MANUFACTURED IN ACCORDANCE WITH C.S.A. C22.2 NO. 211.1-06(R2021) OR LATEST EDITION.

**GROUNDING SYSTEM NOTES:**

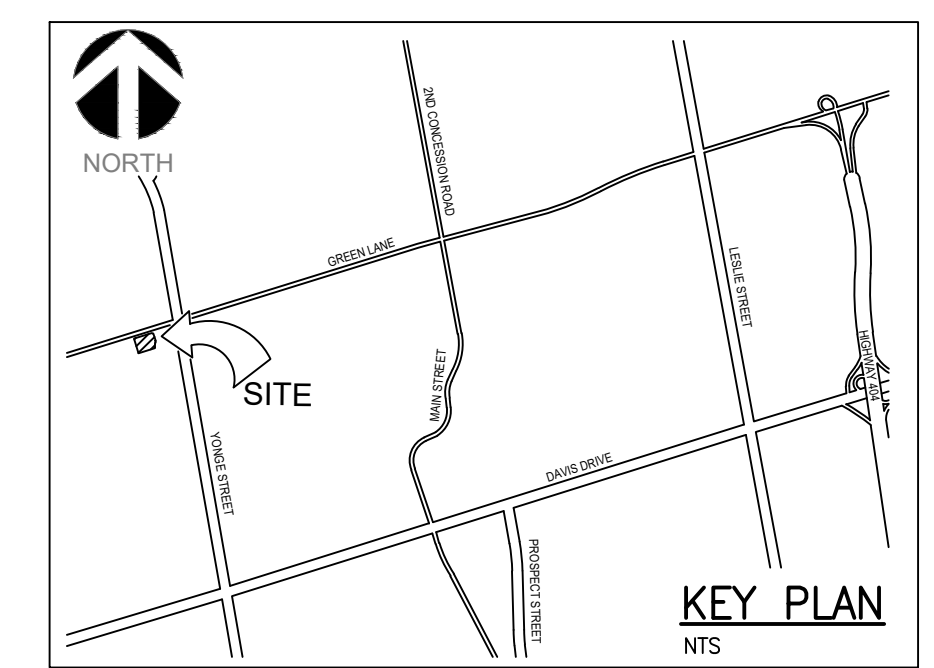
- THE GROUNDING HAS TO BE INSTALLED TO THE LATEST CUSTOMER/UTILITY STANDARDS AND SPECIFICATIONS. ANY CHANGES TO THE DESIGN (IF REQUIRED) HAVE TO BE APPROVED BY THE J+B ENGINEERING ELECTRICAL ENGINEER. IF SPECIFIC CUSTOMER STANDARDS ARE NOT AVAILABLE REFER TO THE GROUNDING SYSTEM NOTES BELOW.
- ALL GROUNDING AND BONDING SHALL BE IN ACCORDANCE WITH THE LATEST CSA STANDARD C22.1 AND ALL LOCAL ELECTRICAL INSPECTION AUTHORITY REQUIREMENTS.
- THE CONTRACTOR SHALL SUPPLY/INSTALL A COMPLETE GROUNDING SYSTEM TO MEET THE REQUIREMENTS OF THE CEC. IF REQUIRED, INSTALL ARTIFICIAL GROUNDING ELECTRODES IN ACCORDANCE WITH CSA STANDARD C22.1 LATEST ISSUE.

**GENERAL ELECTRICAL NOTES:**

- THE CONTRACTOR SHALL APPLY FOR, OBTAIN AND PAY FOR ALL PERMITS, LICENSES, INSPECTIONS, EXAMINATIONS AND FEES REQUIRED.
- THE CONTRACTOR SHALL PROVIDE ALL LABOUR, MATERIAL AND EQUIPMENT (UNLESS OTHERWISE INDICATED) NECESSARY TO COMPLETE ALL WORK AS SHOWN ON THIS DRAWING SET.
- CABLE/CONDUIT/DUCT BANKS ROUTING AND TERMINATIONS INSIDE PROPERTY LINE ARE DIAGRAMMATIC, SHOWING THE APPROXIMATE ARRANGEMENT. ACTUAL CABLE/CONDUIT POSITIONS SHALL BE DETERMINED TO SUIT FIELD CONDITIONS AND EQUIPMENT LOCATIONS. OBTAIN LOCATES BEFORE STARTING ANY WORK, INSIDE AND OUTSIDE COSTCO PROPERTY LINES.
- ALL WORK ON UNDERGROUND CONDUITS/CABLES/DUCT BANKS TO INCLUDE EXCAVATION, BACK COMPACTION, INSTALLATION OF CONDUIT/CABLES/DUCT BANKS, BACK FILLED TO GRADE AND REINSTATE EXISTING SURFACE. ALL DUCTS TO INCLUDE PULL ROPE.
- UNDERGROUND CONDUIT/CABLE/DUCT BANKS TO BE BURIED MIN. 600MM BELOW FINISHED GRADE IN NON TRAFFIC AREAS AND MIN. 900MM BELOW FINISHED GRADE IN TRAFFIC AREAS. REFER TO QESC FOR ADDITIONAL REQUIREMENTS.
- SURFACE RESTORATION SHALL BE TO ORIGINAL CONDITION AND INCLUDES ANY ROADWAY, ASPHALT, CONCRETE CURBS AND LANDSCAPING AS REQUIRED.
- COSTCO GC RESPONSIBLE FOR OBTAINING MUNICIPAL PERMITS FOR ALL WORKS WITHIN MUNICIPAL RIGHT-OF-WAYS. GENERAL CONTRACTOR IS TO COORDINATE CONSTRUCTION WITH UTILITY REPRESENTATIVES REGARDING SCHEDULING AND EXECUTION OF WORK.
- ALL UTILITY DESIGNS ARE PRELIMINARY AND ARE PENDING APPROVAL FROM UTILITY RESPONSIBLE FOR SERVICE. GENERAL CONTRACTOR IS TO COORDINATE WITH UTILITY REPRESENTATIVES REGARDING SCHEDULING AND EXECUTION OF WORK.
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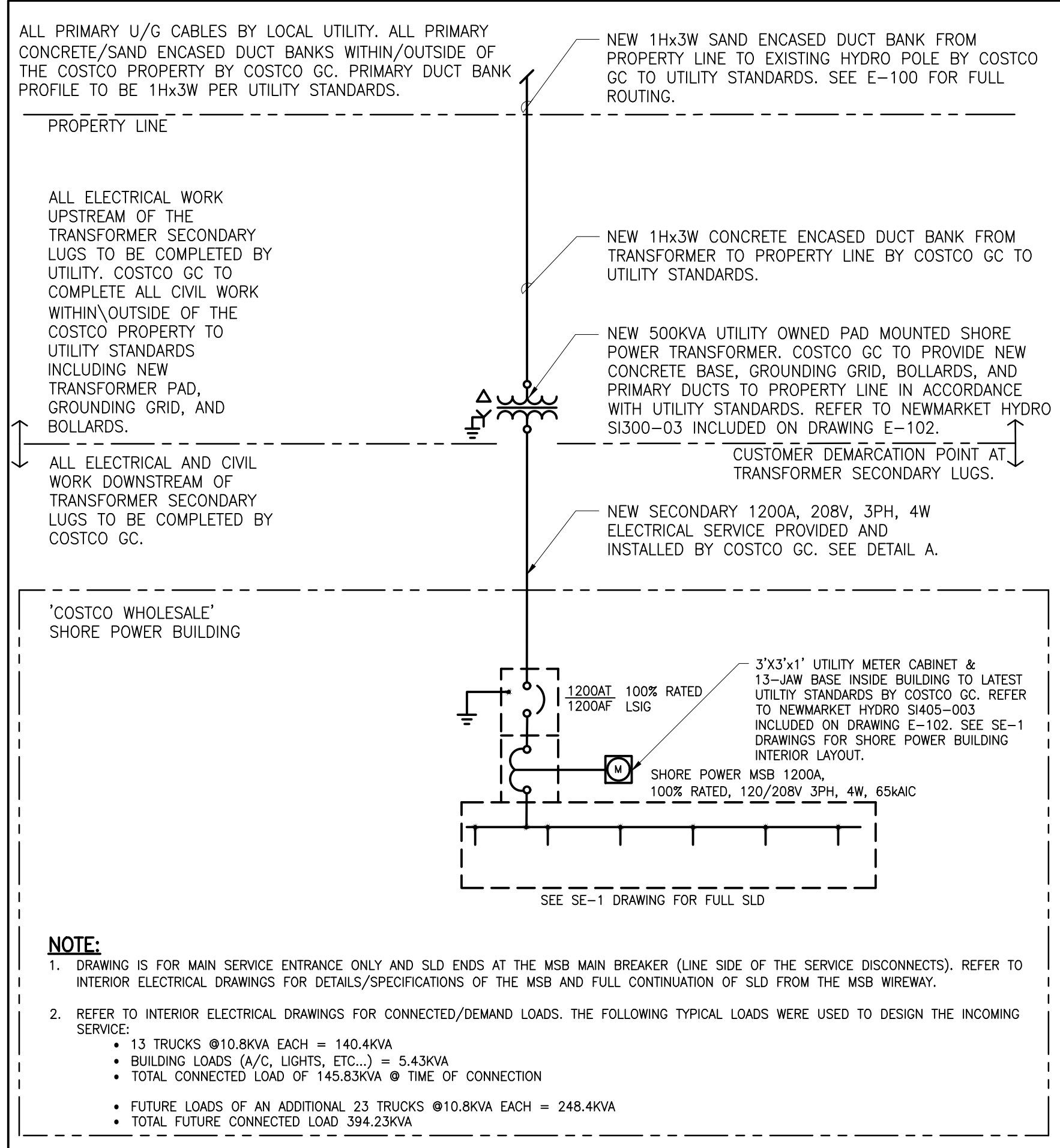


**A DETAILED A: SHORE POWER SECONDARY**  
E-101 SCALE: N.T.S.



**GENERAL NOTES:**

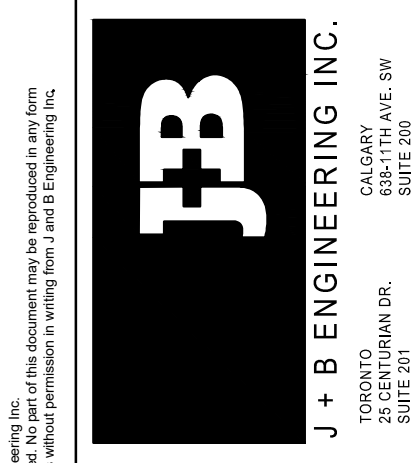
- VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
- DO NOT SCALE DRAWINGS.
- REPORT ALL DISCOVERIES OF ERRORS, OMISSIONS OR DISCREPANCIES TO THE DESIGN ENGINEER AS APPLICABLE.
- USE ONLY LATEST REVISED DRAWINGS OR THOSE THAT ARE MARKED "ISSUED FOR CONSTRUCTION".



**2 SINGLE LINE DIAGRAM (SHORE POWER SERVICE)**  
E-101 SCALE: N.T.S.



Δ	DATE	DESCRIPTION	DRAWN	CHECKED
0	04/09/21	ISSUED FOR REVIEW / COORDINATION	EM	FJ
1	18/08/21	UPDATED PER WSP SP-4 AND	AM	FJ
2	12/05/23	UPDATED PER WSP SP-7	AM	FJ
3	05/06/23	UPDATED PER WSP SP-4	AM	FJ
4	18/09/24	QA SET	AM	FJ
5	18/09/24	QA SET	AM	FJ
6	25/09/24	UPDATED PER WSP SP-13	AM	FJ
7	27/09/24	2ND QA SET	AM	FJ
8	27/09/24	2ND QA SET	AM	FJ
9	27/09/24	ISSUED FOR BP	AM	FJ

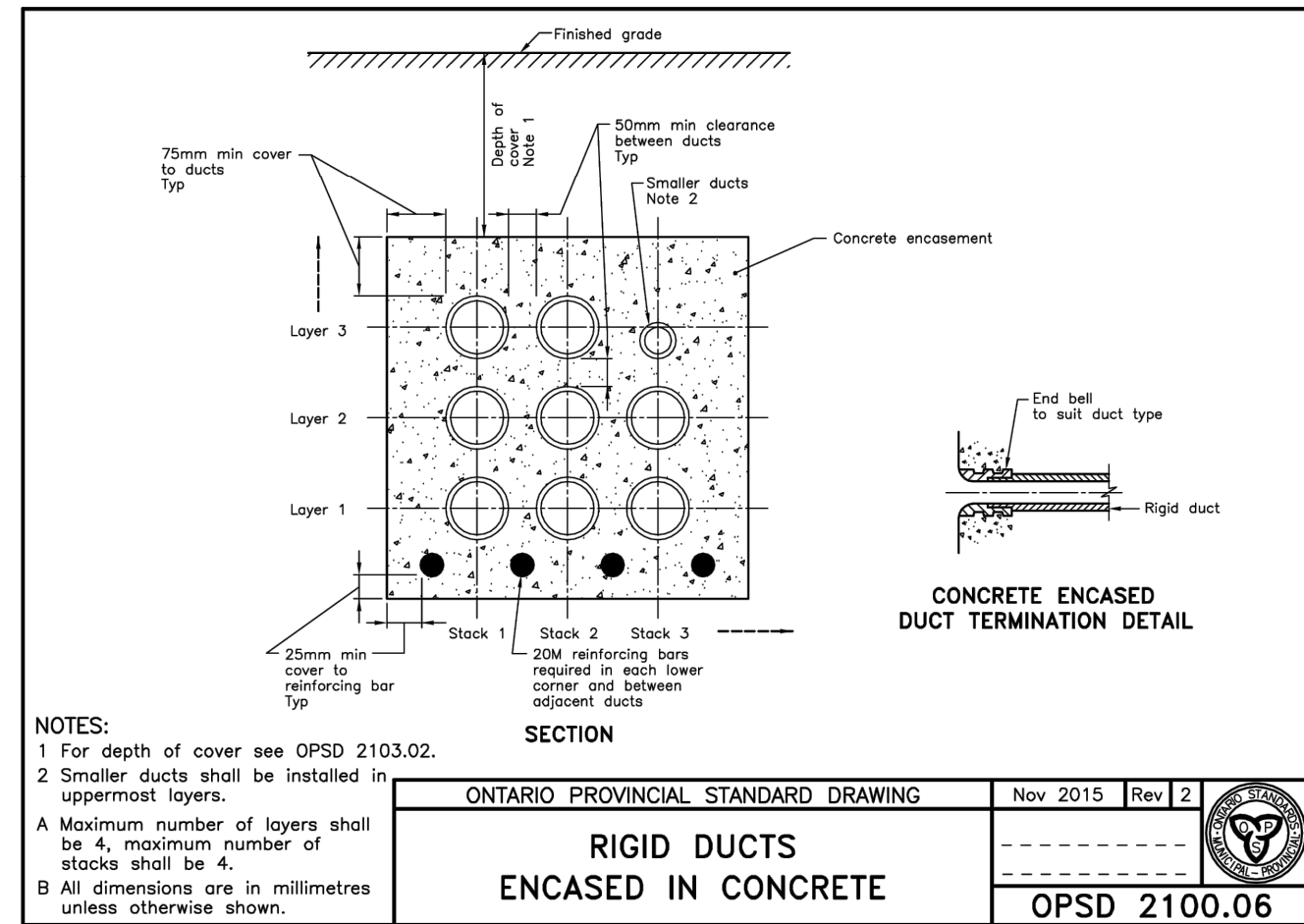
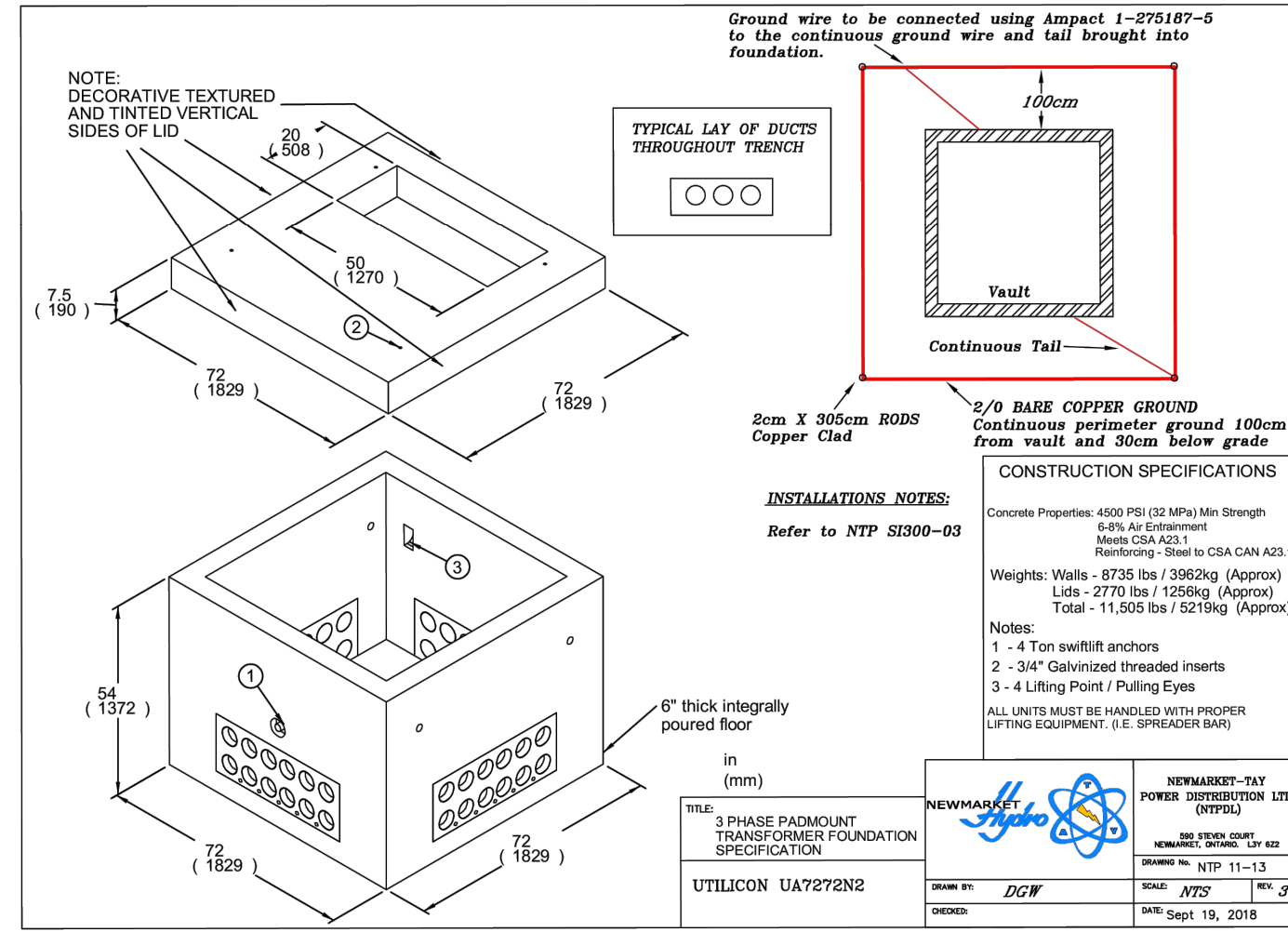


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BUSINESS CENTRE  
18188 YONGE STREET  
EAST GWHIMMER, ONTARIO  
CANADA



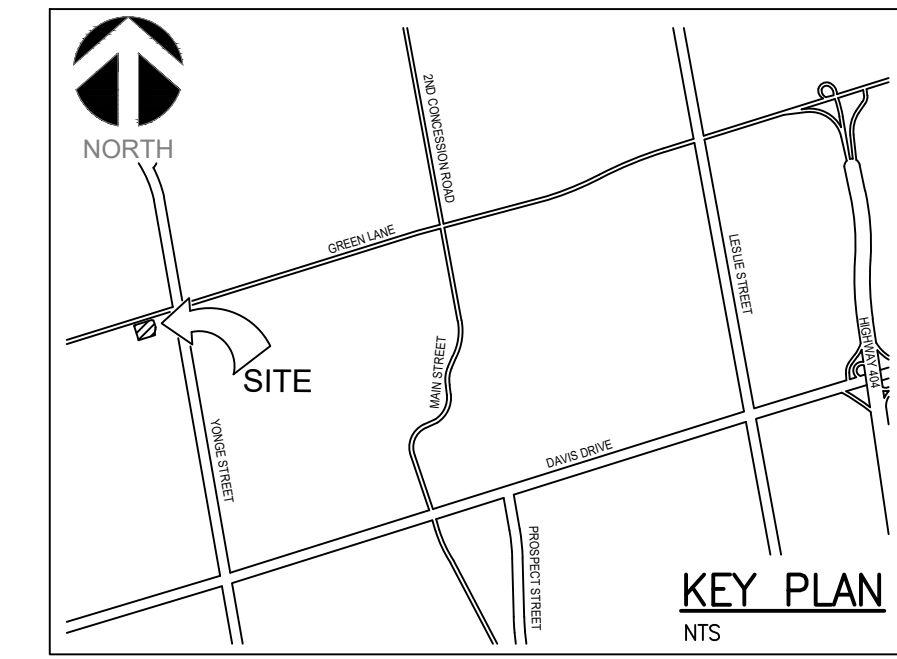
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PM: FJ  
CHECKED BY: AM  
ISSUED: 27 JUL '21

ELECTRICAL SERVICE  
- SHORE POWER



**NOTE:**

THE SELECTED NEWMARKET HYDRO STANDARDS ARE REPRODUCED HERE FOR CONTRACTOR CONVENIENCE / REFERENCE ONLY AND MAY REFER TO ADDITIONAL NEWMARKET HYDRO STANDARDS WHICH ARE NOT SHOWN. THE CONTRACTOR SHALL REQUEST THE LATEST COMPLETE STANDARD PACKAGES FROM NEWMARKET HYDRO AND COMPLETE THE INSTALLATION IN CONFORMANCE WITH THEIR LATEST APPROVED STANDARDS.



**GENERAL NOTES:**

1. VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
2. DO NOT SCALE DRAWINGS.
3. REPORT ALL DISCOVERIES OF ERRORS, OMISSIONS OR DISCREPANCIES TO THE DESIGN ENGINEER AS APPLICABLE.
4. USE ONLY LATEST REVISED DRAWINGS OR THOSE THAT ARE MARKED "ISSUED FOR CONSTRUCTION".

<p>NEWMARKET-TAY POWER DISTRIBUTION LTD.</p> <p>STANDING INSTRUCTION</p> <p>TITLE</p> <p>3-PHASE PADMOUNT TRANSFORMER INSTALLATIONS CONTRACTOR'S RESPONSIBILITY</p>	<p>S.I. NUMBER: SI300-003</p> <p>REVIEW DATE: MARCH, 2015</p> <p>REVISION DATE: MARCH, 2015</p> <p>NEXT REVIEW DATE: MARCH, 2017</p> <p>ORIGINATED BY: Engineering</p>
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In accordance with the Ontario Electrical Safety Code, transformers must be located a minimum of 3 metres from a window, door or flammable materials.

1. **Transformer foundation**
  - a) To excavate for transformer foundation.
  - b) Transformer foundation to be levelled on a base of 15 cm of 3/4" clear stone. **Note:** HL-8 and HL-8 are not accepted.
  - c) Initial backfilling requires that 30 cm of the foundation remains exposed above grade to facilitate the installation of the primary cables. Once Newmarket-Tay Power Distribution Ltd. (NT Power) has installed the primary cables final backfill can be completed to ensure that the top of the foundation is 15 cm above finished grade.
  - d) Arrangements for transformer foundation delivery to be made with NT Power Underground Inspection Department at least 3 days prior to excavation.
  - e) Transformer foundations to be free of debris and water at all times.
  - f) All transformer foundations to be delivered and set in place by the manufacturer following approval of NT Power Underground Inspector.
  - g) Once the transformer foundation has been installed, it is the contractor's responsibility to ensure that the opening to the foundation is safely and securely covered until the transformer is set in place by NT Power.
2. **High Voltage Ducts**
  - a) To excavate and install 3-1/4" (4 inch) type two ducts, a minimum of 90 cm in depth from transformer foundation to 1 metre from the hydrate dip pole. Bell ends required at both ends.
  - b) Duct to be installed using 3-way spacer's side-by-side every 1.2 metres along full length of trench.

Newmarket-Tay Power Distribution Ltd. Standing Instruction  
3-Phase Padmount Transformer Installations - Contractor's Responsibility  
SI300-003 - March, 2015 Page 2 of 3

- c) Install 4 runs of 16 mm reinforcing bar at base of spacers from the transformer foundation to the lot line.
  - d) To install 1/4 inch pull rope in each duct. (This is at the discretion of the NT Power Inspector at the time of installation.)
  - e) Primary duct run limited to the use of 3 sets of 90° bends.
  - f) Concrete encasement - 10 cm envelope from transformer foundation to lot line. Concrete to be 10 mm (PEA Gravel) concrete mix with strength 20 MPa cured (cure time 50 days).
  - g) The ducts are to be surrounded by a 15 cm sand envelope extending from the edge of concrete encasement to the service pole. If additional mechanical coverage is required place concrete patio stones 45 cm above ducts. Twelve (12) inch yellow caution tape is to be installed 45 cm below grade.
  - h) Install a #14 (jacketed) tracer wire in the centre of the concrete encasement for the full length of trench. The tracer wire is to extend 1.2 metres beyond the top of the transformer foundation and 1.2 metres above grade at pole.
  - i) Patio stone to be (if required):  
Brooklin Concrete - Trench Cover - #BCPN10012  
Dimension - 450 mm x 305 mm x 45 mm  
Hydraulically pressed with a minimum compressive strength of 45 MPa.
3. **Road Crossings**
    - a) All road crossings are to include (4) 10cm (4 inch) type II duct one of which is capped at both ends.
    - b) All ducts in the road crossing are to extend 1 metre past curb on both sides.
  4. **Permits**
    - a) Contractor is responsible for obtaining all municipal and/or regional permits necessary for constructing within the ROW and road crossing prior to construction.
  5. **Grounding**
    - a) To supply and install four 2 cm x 305 cm copper clad ground rods connected with 2/0 bare copper wire making a complete perimeter ground.

Newmarket-Tay Power Distribution Ltd. Standing Instruction  
3-Phase Padmount Transformer Installations - Contractor's Responsibility  
SI300-003 - March, 2015 Page 3 of 3

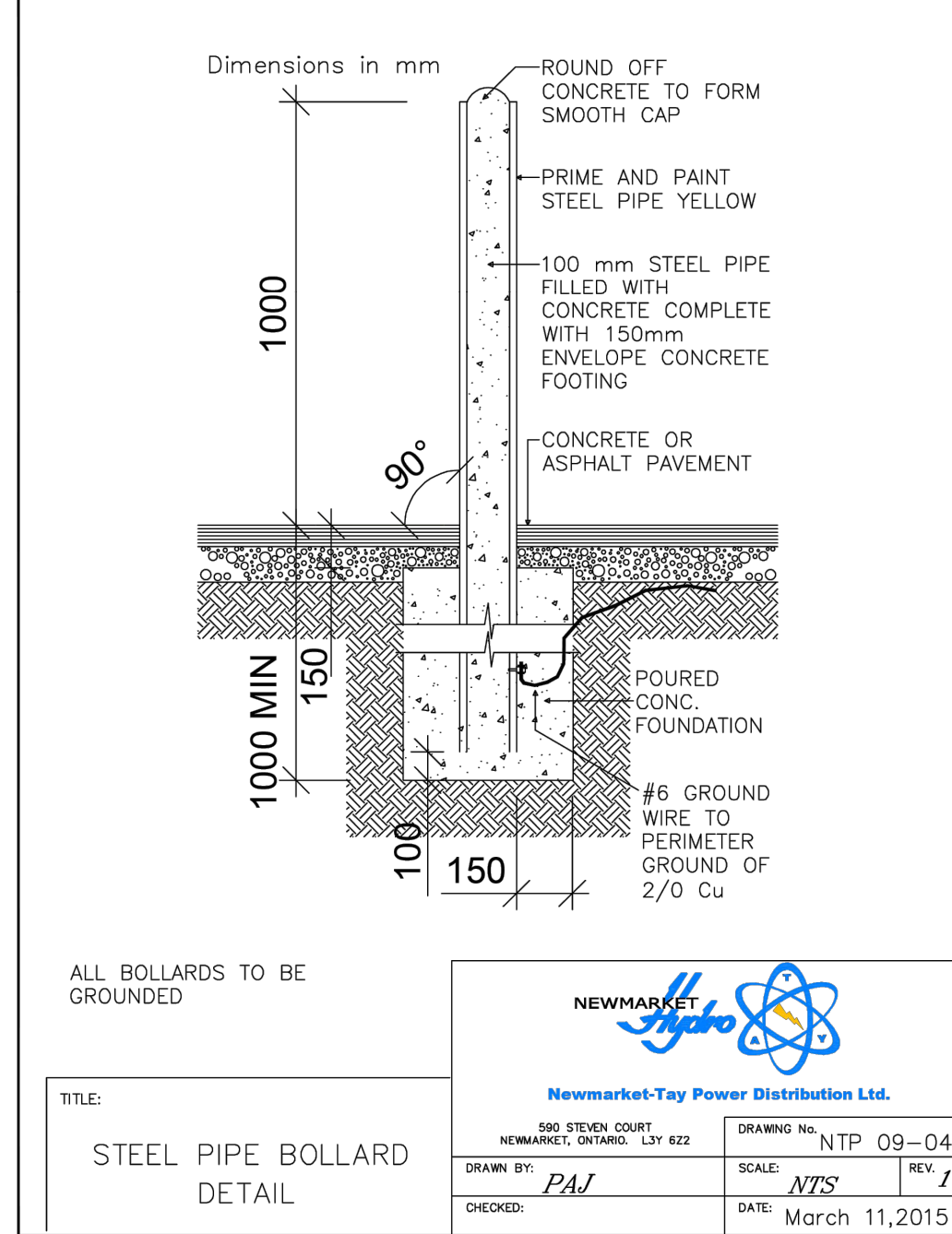
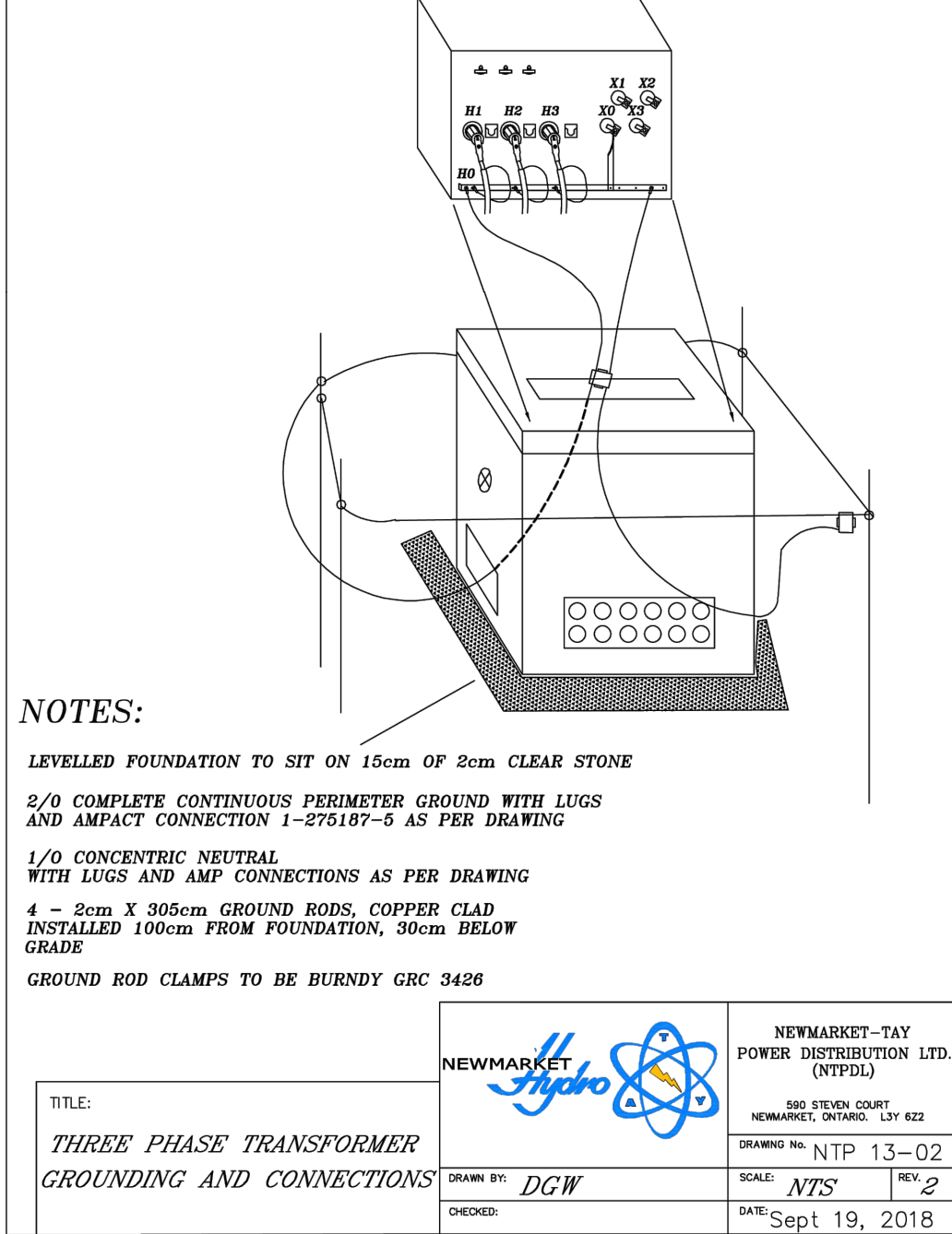
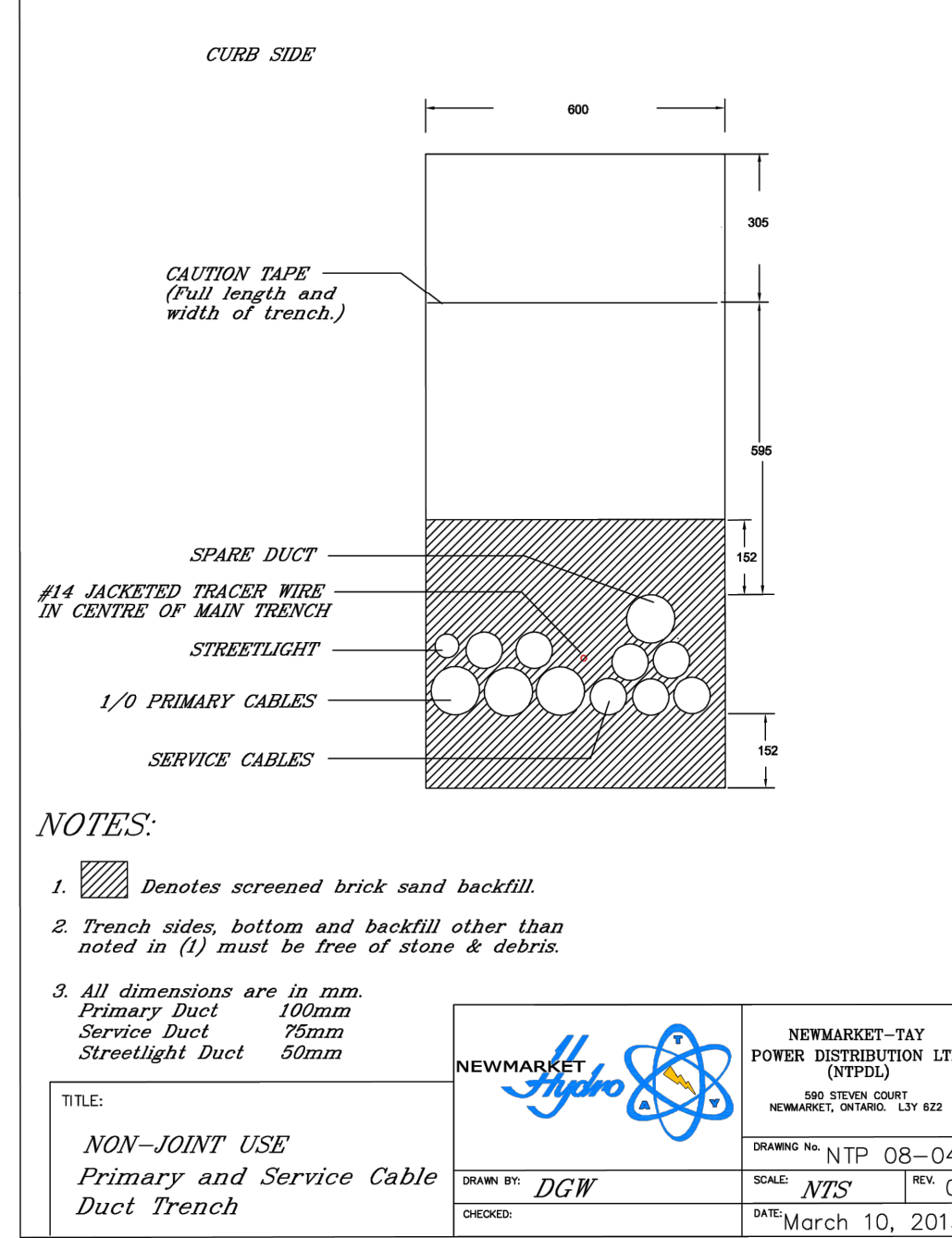
- b) The ground wires are to enter the transformer foundation from the sides (not the front or back). Both ends of ground wire are to be terminated 1.2 metres above transformer foundation.
  - c) Brass ground rod clamps to be Bundy GRC 3426.
  - d) Complete the perimeter ground on all 4 sides of the transformer foundation, 100cm out from the transformer foundation and 30cm below grade.
  - e) All bollards to be grounded to the perimeter ground as per Newmarket Hydro Drawing NTP-09-04.
6. **Secondary Cables**  
All secondary cables to be a minimum length of 1.6 metres above top of transformer foundation.
  7. **Inspection**  
All work carried out must be inspected by NT Power. Sufficient notice is to be given for each phase of construction.
- P. D. Ferguson, P.Eng. President Date Approved

Metering Requirements and Specifications  
Standing Instruction 8403-502  
March 2015 Page 3 of 4

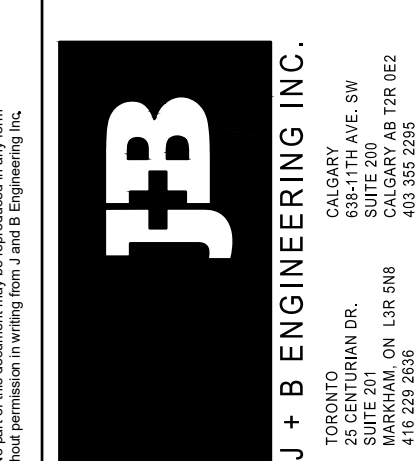
- a) 3 wire, 120/240 volt services:  
**metering** - single phase, 1-1/2 element, 200 amp, 240 volt, 6 dial x 1
  - b) 2 wire, 120 volt services:  
**metering** - single phase, 1.0 element, 100 amp 120 volt, 6 dial x 1
- 2.1.2 Transformer Type Services**
- Any service exceeding 200 amps shall require the installation of instrument transformers. Services rated 400 amps or less may be metered by an approved 400 amp meter base (see Appendix A).
- Services exceeding 400 amps will require a 4 x 4 metering cabinet and combination demand meter.
- 2.1.3 Central Metering Services (CM Services)**
- Single phase services may be metered using pole top central metering. All CM services will be equipped with a 5 jaw meter base with the 5th jaw at the 9 o'clock position. All potential connections will be made on the load side of the transformer (see Appendix B).
- 2.2 Network Services**
- 2.2.1 Self Contained Services**
- a) 120/208, 2 phases and a neutral:  
**metering** - 100 amp 120 volt, 5 jaw x 1
- 2.3 Three Phase Services**
- 2.3.1 Self Contained Services**
- a) = 120/208 volt services  
= 120 volt meters  
main rating < 200 amp - 7 jaw, energy only  
main rating 200 amp - 7 jaw, combination demand
  - b) = 600/347 volt services  
= 347 volt meters

Metering Requirements and Specifications  
Standing Instruction 8403-502  
March 2015 Page 4 of 4

- main rating = 100 amps - 7 jaw, energy only  
main rating 100-200 amps - 7 jaw, combination demand
- c) - 600 volt Delta  
- 600 volt meter  
main rating = 100 amps - 5 jaw, energy only  
main rating 100-200 amps - 5 jaw, combination demand
- 2.3.2 Transformer Type Services**
- Three phase services exceeding 200 amps will require the installation of a 4' x 4' metering cabinet to enclose metering equipment.
- All metering must be located on the load side of the main disconnect.
- Installations that exceed 50 KVA and that have a power factor less than 90% shall have both KVA and KW demand metering.
- Instrument transformer installation is the responsibility of the developer/landowner. Transformers may be installed into switchgear at the factory or on site.
- P. D. Ferguson, P.Eng. President Date Signed



DATE	DESCRIPTION	AM	FJ
18/08/2011	UPDATED PER WSP-SP-4 AND		
12/05/2011	UPDATED PER WSP-SP-7		
05/06/2011	UPDATED PER WSP-SP-4		
18/08/2011	UPDATED PER WSP-SP-7		
05/06/2011	UPDATED PER WSP-SP-13		
27/09/2011	2ND QA SET		
07/02/2015	QA SET		
21/02/2015	ISSUED FOR BP		



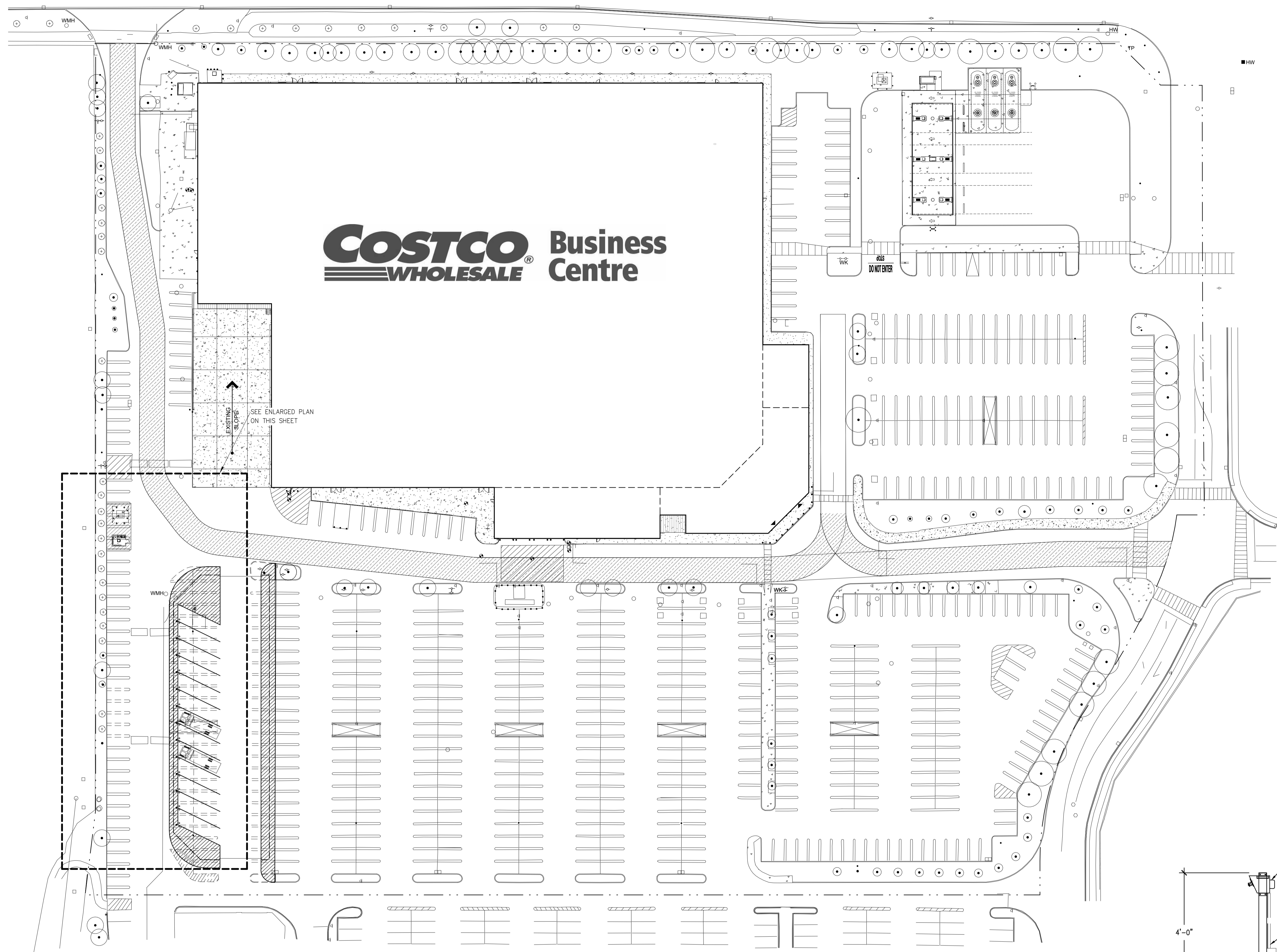
NEWMARKET, ON  
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18182 YONGE STREET  
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CANADA



J+B # 210168  
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ISSUED: 09 AUG '21

NEWMARKET HYDRO STANDARDS



**SITE PLAN**

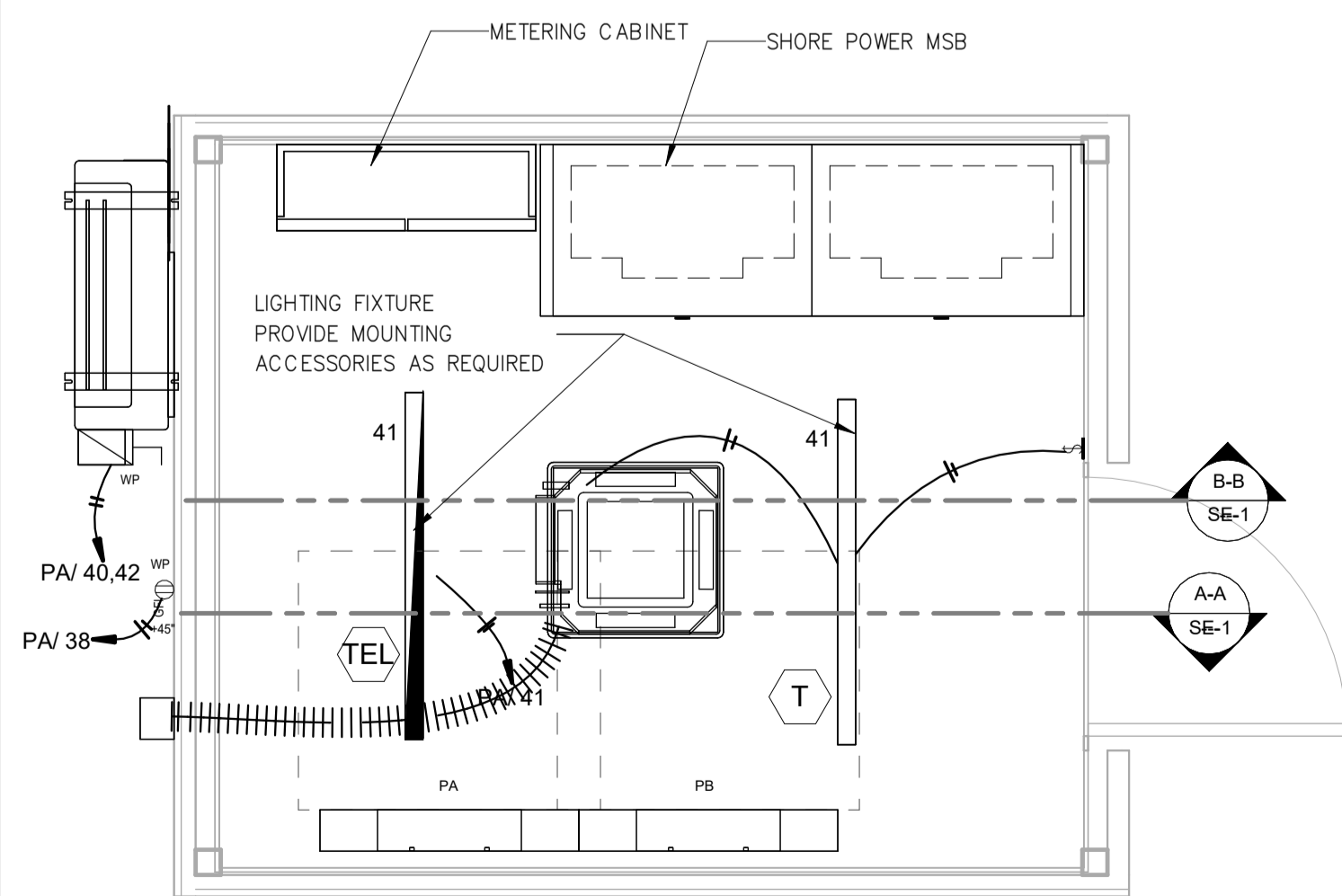
SCALE: 1" = 40'-0"

**TRUCK SHORE POWER**

SCALE: 1" = 20'-0"

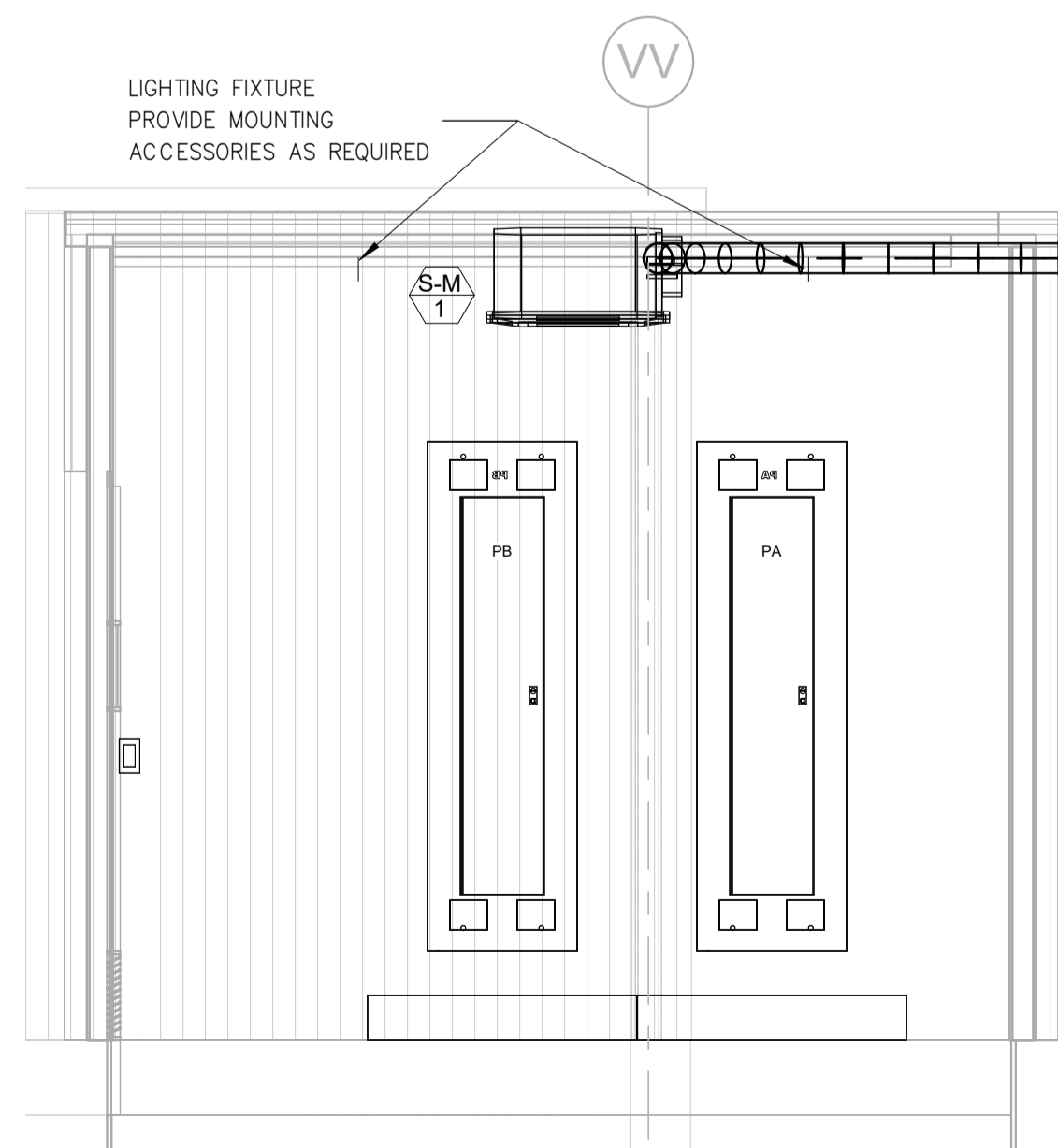
SEE ENLARGED PLAN ON THIS SHEET

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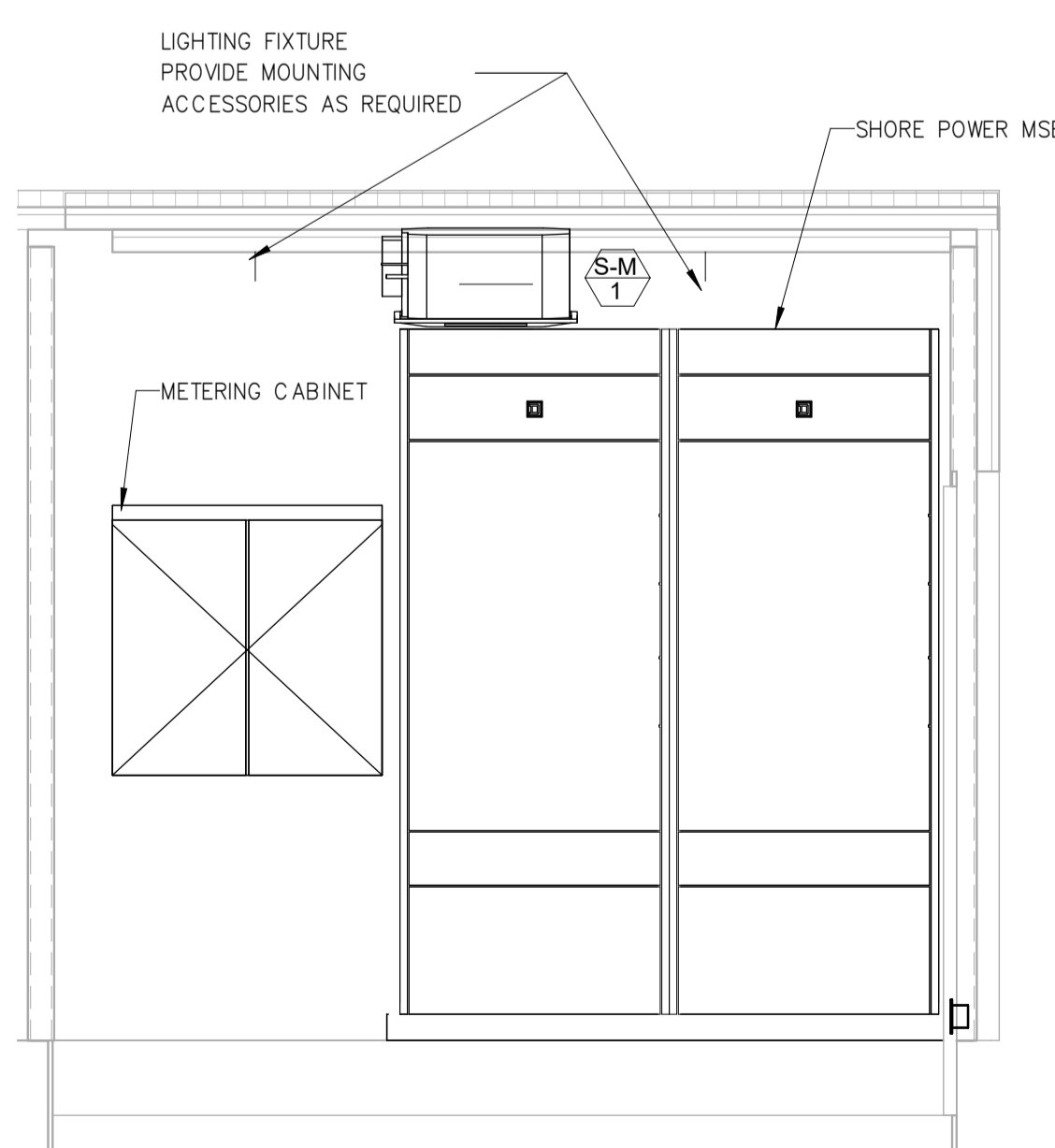
**SHORE POWER ROOM**

SCALE: 1/2" = 1'-0"



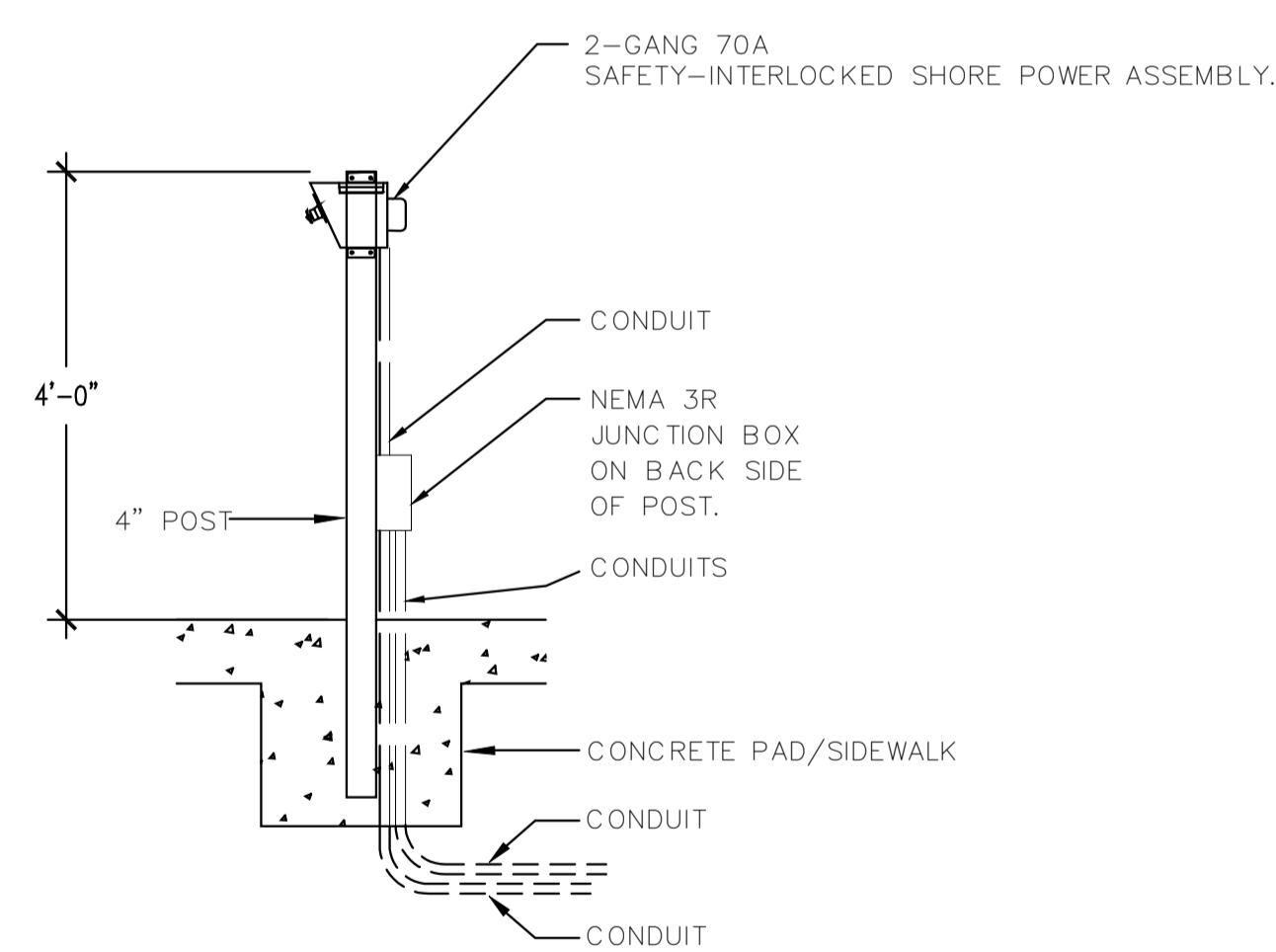
**CROSS SECTION A-A**

SCALE: 1/2" = 1'-0"



**CROSS SECTION B-B**

SCALE: 1/2" = 1'-0"

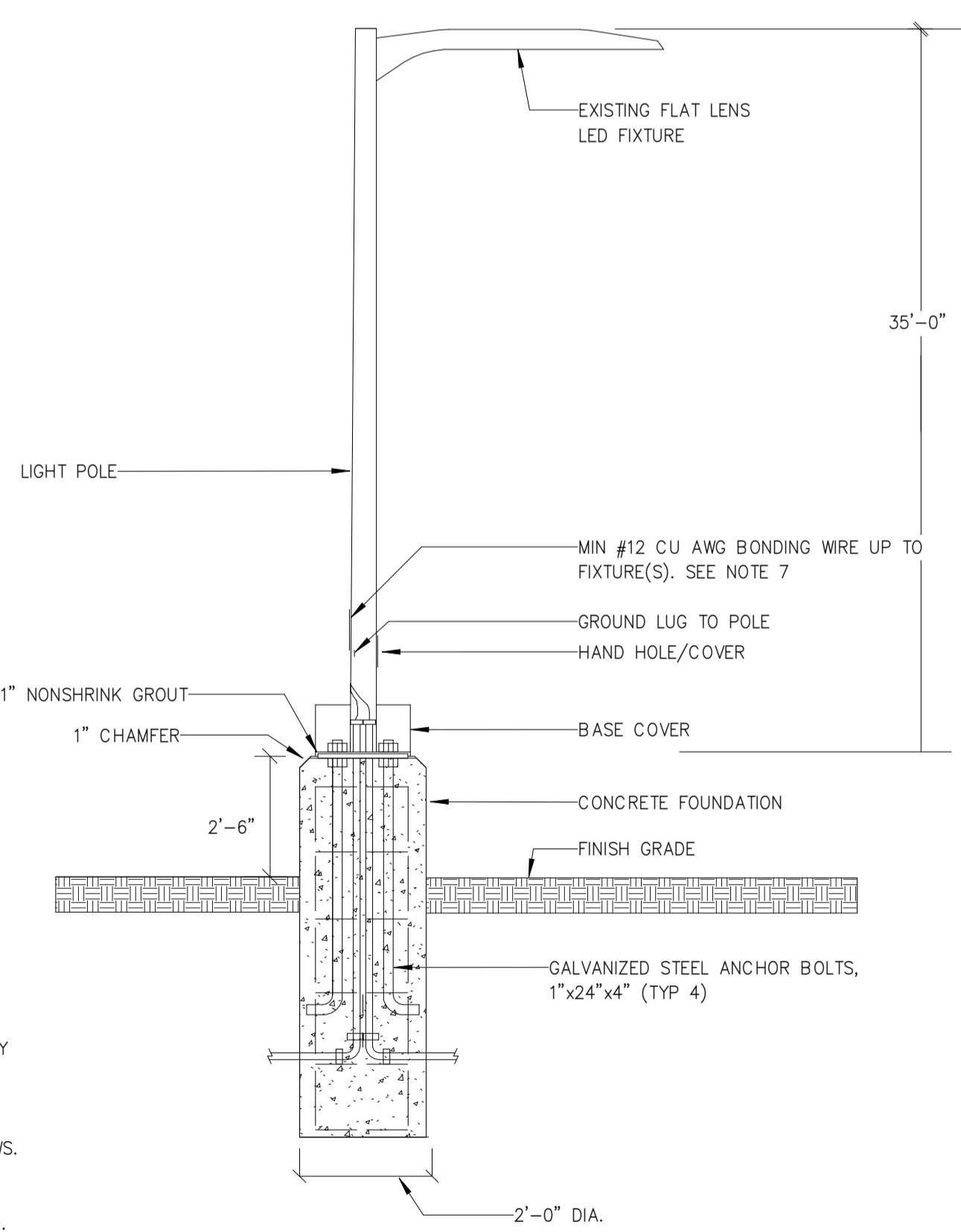


**SHORE POWER DETAIL**

SCALE: NTS

**SITE PLAN NOTES**

- REFER TO E-100 SERIES DRAWINGS FOR NEW SHORE POWER PRIMARY SERVICE DETAILS.
- G.C. TO COORDINATE THE NEEDS (QUANTITY AND DIMENSIONS) IN PULL BOXES WITH TELEPHONE AND CABLE INSTALLER FOR RUNNING CONDUIT FROM THE SHORE POWER BUILDING TO THE BUSINESS CENTER.
- DO NOT RUN CONDUITS UNDER ANY DANGEROUS AREAS SUCH AS THE FUEL FACILITY AND PROPANE FILLING STATION (AS DEFINED BY CEC AND OESC SECTION 20) IF THEY ARE NOT INTENDED FOR THESE SPECIFIC ZONES.
- POLE MANUFACTURER TO PROVIDE POLE ID ON THE HANDHOLE COVER. LABEL POLE NUMBER AND CIRCUIT NUMBER PER PLAN. EXAMPLE: POLE#1, H2/54/56, 2"x4" LABEL 1/4" HIGH ENGRAVED LETTERS. COVER SHALL BE SECURED WITH TAMPER-PROOF SCREWS. E.C. TO VERIFY CIRCUIT NUMBERS PER PLAN AND ENSURE THE CORRECT INSTALLATION OF LABEL/COVER FOR EACH POLE.
- E.C. TO PROVIDE COPPER WELD 5/8" DIA X 10' LONG GROUND ROD AT EACH POLE PER DETAIL. BIND GROUND WIRES TO GROUND ROD.
- UTILITY METERING. PROVIDE ALL METERING EQUIPMENT AS REQUIRED. LOCATE METERS AS DIRECTED BY POWER COMPANY, AND AS COORDINATED WITH OWNER AND ENGINEER.
- ALL EXTERIOR ELECTRICAL RECEPTACLES SHALL BE RATED FOR NEMA-3R.
- SHORE POWER & BLOCK HEATER RECEPTACLES:
  - 2-GANG, 70A SAFETY-INTERLOCKED SHORE POWER ASSEMBLY (50A/208V/3P/4W) RECEPTACLE FACING LEFT WITH (1) 20A 120VAC GFI DUPLEX WITH IN-USE COVER AND 20A 120VAC BREAKER IN WEATHERPROOF STAINLESS STEEL UL LISTED ENCLOSURE ASSY WITH INDICATOR LIGHTS & CABLE HANGERS ESL E1-R50-208-50-65SCPP-SPL-222373G TYP.
- SEE MANUFACTURER MANUAL FOR INSTALLATION REQUIREMENT.
- E.C. TO REMOVE EXISTING POLE. DEMOLISH EXISTING BASE AND EXTEND EXISTING FEEDER TO NEW LOCATION IF POSSIBLE, OR PROVIDE NEW FEEDER AS SHOWN TRENCH, FILL AND PATCH AS REQUIRED. FIELD VERIFY. PROVIDE NEW POLE BASE AND INSTALL EXISTING POLE/FIXTURE C/W NEW LAMPS TO MATCH EXISTING.
- ALL EXISTING POLE LIGHTS TO REMAIN UNLESS OTHERWISE NOTED.



**POLE DETAIL**

SCALE: NTS

NOTE: PROVIDE CONCRETE J-BOX AS REQUIRED. THIS DETAIL IS FOR ELECTRICAL CONDUITS ROUTING ONLY. SEE STRUCTURAL DRAWINGS FOR CONSTRUCTION DETAILS.

BP



PROJECT STATUS: BP

DATE	DESCRIPTION
0 17/09/24	ISSUED FOR CA
1 27/09/24	ISSUED FOR SECOND QA
2 07/02/25	ISSUED FOR CA
3 21/02/25	ISSUED FOR BP



**NEWMARKET, ON  
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18182 YONGE STREET  
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CANADA



# 0510

J+B #: 210168  
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ISSUED: 2025-02-21 11:27:14 AM

SITE PLAN

SE-1