

O'KEEFE COURT

Diagram showing a cross-section of a concrete structure. The top layer is labeled 'FINISHED GRADE'. Below it is a hatched area. A vertical dimension line on the left indicates 'MIN. 1000M' from the bottom. A horizontal dimension line at the bottom indicates a total width of '830'. A 'WARNING TAPE MARKER' is located 300 mm below grade. The structure contains 'CONCRETE ENCASED DUCTS' (103mm diameter Type II PVC ducts) arranged in two rows of four. Reinforcing steel is shown at the bottom, with a minimum diameter of 16mm. A note on the left says 'CONFIRM WITH HYDRO.'. A note at the bottom right says 'NOTES:'. Vertical dimensions on the left are 130, 450, 190, 130, 50. Horizontal dimensions for the ducts are 130, 190, 190, 190, 130.

NOTES:

1. PROVIDE SECONDARY DUCTBANK TO CANADIAN ELECTRICAL CODE STANDARDS AND REQUIREMENTS. SECONDARY DUCTBANK & CABLES SUPPLIED AND INSTALLED BY DIVISION 16.
2. PROVIDE BELL FITTINGS AT EACH END AND PLASTIC OR MASONARY SPACERS PER 3.0M OF DUCT AND 610mm ON BOTH SIDES OF EACH COUPLING.
3. REFER TO SPECIFICATIONS FOR DETAILED DESCRIPTION.

DRAWING NOTES:

- RUN MINIMUM #8 AWG WIRING AND TYPE II PVC CONDUITS FOR ALL EXTERIOR LIGHTING POLE, BOLLARDS, WALL PACKS, AND FLAG POLE LIGHTING TO ENSURE NO VOLTAGE DROP EXCEEDS 2.5%.
- SUN COUNTRY HIGHWAY MODEL EV40. 40A-2P, LEVEL II EV CHARGER FROM SUNCOUNTRY
- DETAILS ON THIS DRAWINGS ARE FOR INFORMATIONAL PURPOSES ONLY. ALL TRANSFORMER INSTALLATIONS, DUCTING, AND PERTAINING DEVICES TO BE INSTALLED AS PER HYDRO STANDARDS AND DETAILS. CONTRACTOR TO COORDINATE CLOSELY WITH HYDRO REPRESENTATIVE THROUGHOUT ALL INSTALLATIONS
- INTERCOM PHONE & CARD READER TO OPEN PARKING OVER HEAD DOOR
- PROVIDE 4 (FOUR) PROTECTIVE BOLLARDS FOR TRANSFORMER (TYPICAL FOR ALL).
- PADMOUNT TRANSFORMER BY HYDRO. SEE HYDRO REQUIREMENTS AND DETAILS.
- FOUNDATION, PAD, BOLLARDS AND GROUNDING BY ELECTRICAL CONTRACTOR PER HYDRO STANDARDS. SEE HYDRO REQUIREMENTS AND DETAILS.
- ALL PRIMARY DUCTBANK INSTALLATION TO BE AS PER HYDRO STANDARDS. CABLES SUPPLIED BY HYDRO, INSTALLED BY CONTRACTOR. CONTRACTOR TO BE IN CONSTANT COORDINATION WITH HYDRO REPRESENTATIVE THROUGHOUT ALL INSTALLATIONS. 4 DUCT ARRANGEMENT PER HYDRO STANDARDS IS TO BE INSTALLED.

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2 PRIMARY/SECONDARY DUCTBANK DETAIL
E101 N.T.S.

ELY WITH HYDRO REPRESENTATIVE THROUGHOUT ALL
ESTABLISHMENTS

A cross-section diagram of a utility trench. The trench is bounded by vertical walls on the left and right. The top of the trench is labeled 'BACK FILL' and 'FINISHED GRADE'. A horizontal line with diagonal hatching, labeled 'WARNING TAPE MARKER 300 MIN BELOW GRADE', runs across the trench. On the left wall, a vertical dimension line indicates a height of '1000M MIN.' from the bottom of the trench to the top of the backfill. On the right wall, a horizontal dimension line indicates a width of '600 MIN.' from the center line to the edge of the backfill. At the bottom of the trench, three circular holes are shown, labeled '103mm. DIAMETER TYPE II PVC DUCTS'.

NOTE:

2. ALL METAL STRUCTURES, EQUIPMENT FRAMES/BASES OF CURRENT CARRY EQUIPMENT WITHIN TRANSFORMER SHALL BE CONNECTED TO TRANSFORMER GROUND WITH MINIMUM #3/0 AWG COPPER CONDUCTOR.

3. CO-ORDINATE GROUNDING GRID EXACT LOCATION AT SITE.

3 DIRECT BURIED CONDUIT DETAIL
E101 N.T.S.

4 TRANSFORMER GROUNDING DETAIL

NOTES:

1. ALL DIMENSIONS ARE IN NOMINAL FEET OR INCHES
2. TOP OF FOUNDATION SHALL BE TROWELLED SMOOTH & LEVEL.
3. CLASS OF CONCRETE SHALL BE 3000 P.S.I. CONCRETE SHALL BE VIBRATED.
4. MINIMUM OF TWO SLEEVES REQUIRED FOR EACH CONC. FOUNDATION UNLESS OTHERWISE SHOWN.
5. PROVIDE A 0.75" DIA. 10' STEEL COPPER COATED GROUND ROD ADJACENT TO POLES AS SPECIFIED ON PLAN AND CONNECT TO METAL POLE WITH BARE COPPER CONDUCTOR.
6. CONTRACTOR TO VERIFY OPENING SIZE IN POLE BASE PLATE PRIOR TO SETTING CONDUIT SLEEVES.
7. SUBJECT TO SOIL CONDITIONS, REFER TO SOIL REPORT.
8. FORM RELEASE AGENT HAS BEEN FACTORY-APPLIED TO INSIDE SURFACE OF "ArtFORM".

20" Dia.

18" Dia.

LIGHTING POLE

POLE BASE COVER

LOCK NUTS

LEVELING NUTS

OPTIONAL ALUMINUM COLOR ACCENT BAND

12"

34"

FIN. GRADE

2"

FIBER FORM

36"

D (REFER TO NOTE 7)

TOP OF CONVENTIONAL FIBER FORM AT 2" BELOW FINISHED GRADE

2" RIGID PVC CONDUIT SLEEVE 36" RADIUS (REFER TO ELECTRICAL)

3" MIN. COVER

0.75" RIGID CONDUIT SLEEVE FOR GROUND CONNECTION AS REQUIRED & SPECIFIED-SEE DWGS. (REFER TO NOTE 5)

8-#6 REINF. RODS & #4 TIES

2" POLYETHYLENE PIPE

ADAPT RIGID PVC TO POLYETHYLENE PIPE WITH ADAPTER COUPLING (REFER TO ELECTRICAL).

18" Dia.

HIGH BASE

5 LIGHTING STANDARD BASE DETAIL
E101 N.T.S.

The logo for EJS Engineering features a stylized blue 'E' and 'S' intertwined with a circular swoosh.

810 NIPISSING ROAD, 212-214
L9T 4Z9, MILTON, Ontario
Tel: 647 945 8484 Fax: 905 216 0898
Email : elias@ejsengineering.ca
Web : www.ejsengineering.ca

A circular professional engineering stamp and a compass rose. The stamp contains the text: 'LICENSED PROFESSIONAL ENGINEER', '2024-12-24', 'E. SHOMALI', '100036483', and 'PROVINCE OF ONTARIO'. Below the stamp is a signature. The compass rose features a central star with the words 'N', 'CONST.', 'TRUE', and 'V' at the cardinal and intercardinal directions.

Client:
Dr. Sandra Iroakazi

project:

120 LUSK STREET
OTTAWA, ON

SITE PLAN

ELECTRICAL LAYOUT

Design By: N.P.	Drawn By: N.P.	Approved By G.S.
Scale: S SHOWN	Date:	Project No.: 35-24

Drawing No:

E101

Drawing Series:



