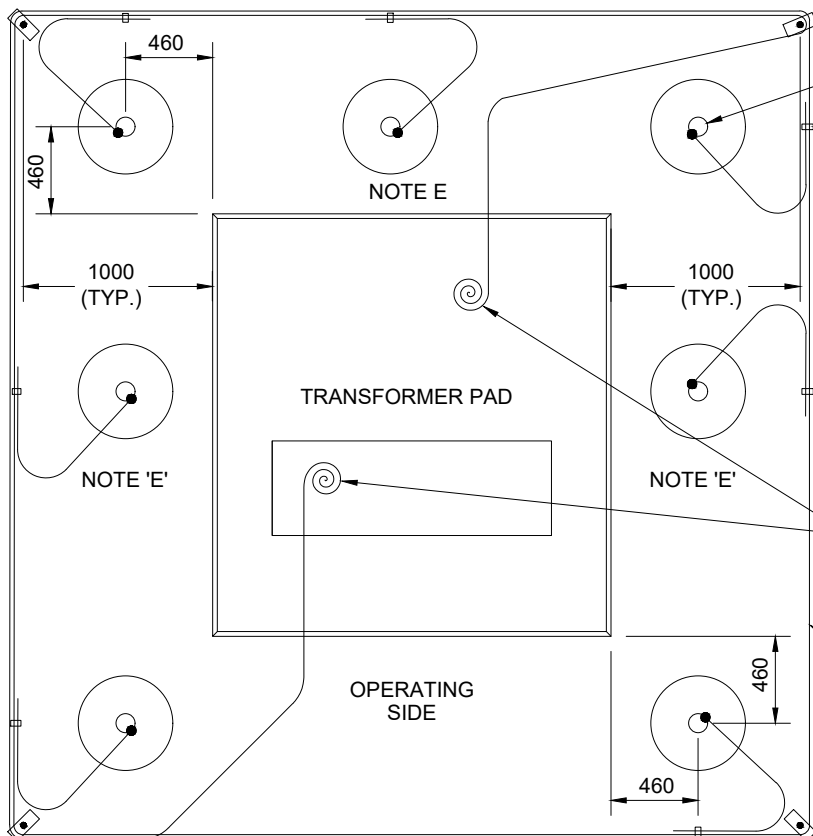


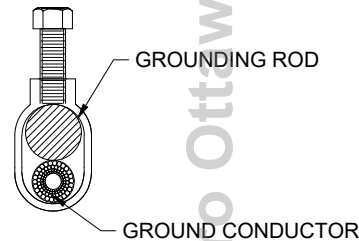
GROUNDING LOOP SECTION

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.




GROUNDING GRID PLAN



DETAIL 'A'

- 2/0 BARE COPPER WITH MINIMUM 3000mm [10'] TAILS INSIDE BASE. WIRE TO PENETRATE MANHOLE 300mm BELOW GRADE (USE PREDRILLED HOLES WHERE PROVIDED)
- CONTINUOUS RUN OF 2/0 BARE COPPER AT A DEPTH OF 300mm BELOW FINAL GRADE
- GROUND ROD COMPLETE WITH GROUND ROD CLAMP (MIN. 4 REQUIRED) STOCK NO. 476409 (SEE DETAIL 'A').

REVISIONS		PREP	CHKD	APPD
REV: 7	DATE: 2009-01-12	CP	CP	CSM
CHANGE: NOTE B REVISED RE ESA INSPECTION				
REV: 8	DATE: 2010-05-27	FB	RW	CSM
CHANGE: TITLE CHANGE				
REV: 9	DATE: 2020-03-26	EV	AK	MW
CHANGE: UPDATED NOTE 'G' THE COUNTERPOISE WAS REDRAWN				


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PREP: G. GOFORTH
 CHKD: M. DENOMME
 APPD: C. MALONE P. Eng
 DATE: 2011-06-14
 SCALE: N.T.S. @ ANSI A

TITLE	ENGINEERING SPECIFICATION		
	GROUNDING TRANSFORMER OR SWITCHGEAR BASE		
	CONSTRUCTION DETAIL		
NO:	UGS0002		REV: 9
	1	OF	1