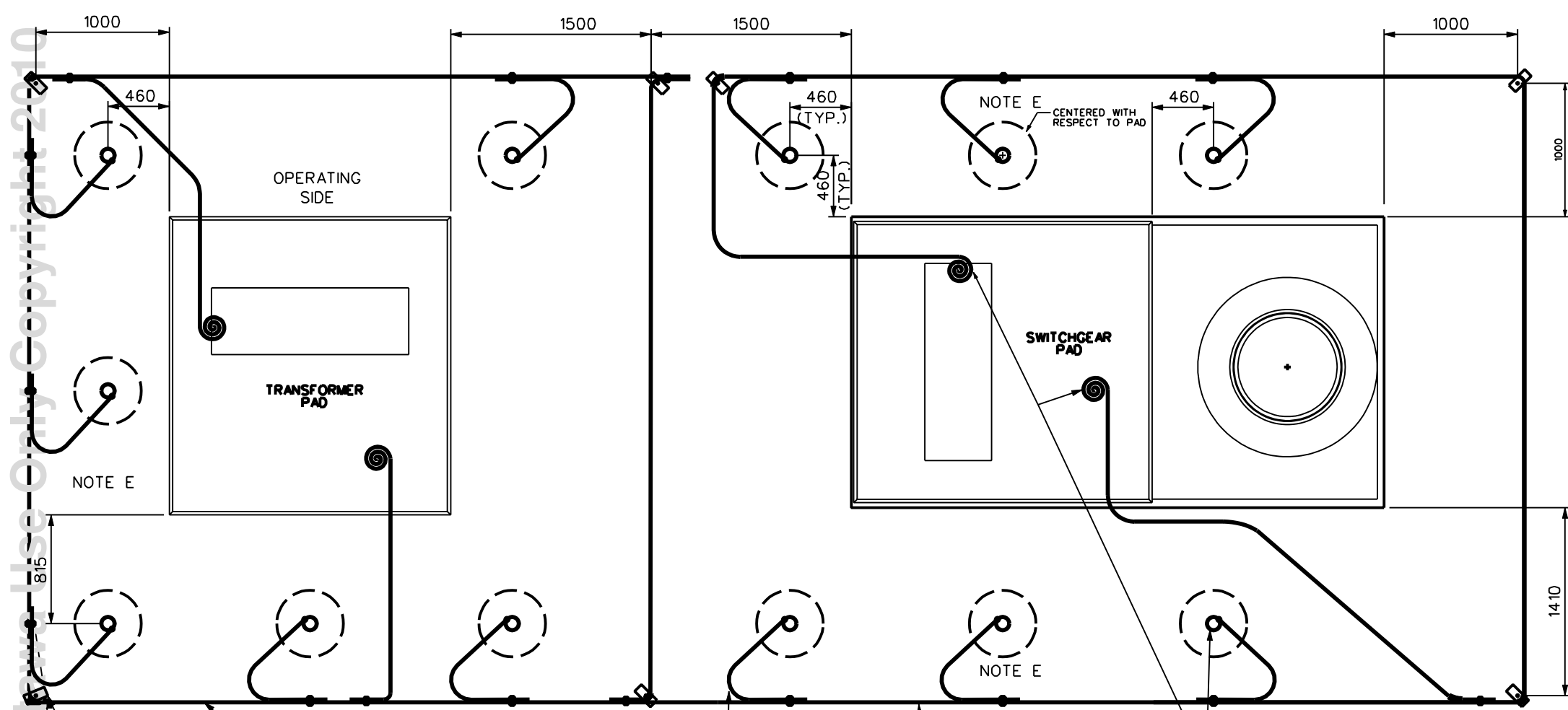


# GROUND LOOP PLAN



- 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 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  $\leq 25$  OHMS (ISOLATED) OR  $\leq 6$  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 600mm 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 2.4m OR LESS OF THE PADMOUNTED EQUIPMENT SHALL BE BOUNDED TO THE EQUIPMENT GROUND LOOP IN ACCORDANCE TO THE OESC AND BULLETIN 36-10-11.

19mm x 3000mm GROUND ROD (GALVANIZED OR COPPER CLAD) COMPLETE WITH GROUND ROD CLAMP STOCK NO. 476409 (MIN. 4 REQ'D.)

BURNDY COMPRESSION GROUND CONNECTOR

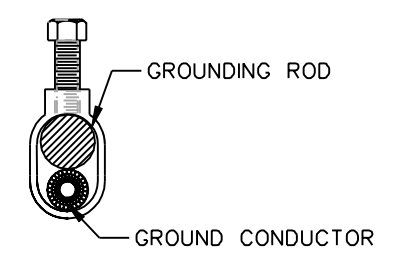
CONTINUOUS RUN OF 2/0 BARE COPPER WITH MINIMUM 3.0m [10'] TAILS INSIDE BASE. WIRE TO PENETRATE MANHOLE 300mm BELOW GRADE (USE PREDRILLED HOLES WHERE PROVIDED)

19mm x 3000mm GROUND ROD (GALVANIZED OR COPPER CLAD) COMPLETE WITH GROUND ROD CLAMP STOCK NO. 476409 (MIN. 4 REQ'D.)

MINIMUM 3.0m [10'] TAILS INSIDE BASE. WIRE TO PENETRATE MANHOLE 300mm BELOW GRADE (USE PREDRILLED HOLES WHERE PROVIDED)

PROTECTIVE BOLLARD COMPLETE WITH GROUND TAIL AS PER UFS0001

CONTINUOUS RUN OF 2/0 BARE COPPER AT A DEPTH OF 300mm BELOW FINAL GRADE



DETAIL 'A'

REVISIONS		PREP	CHKD	APPD
REV:	DATE:	FB	RW	CSM
REV: 1	DATE: 2010-05-27			
CHANGE: TITLE CHANGE				
REV:	DATE: YYYY-MM-DD			
CHANGE:				
REV:	DATE: YYYY-MM-DD			
CHANGE:				

**HydroOttawa**  
WWW.HYDRO-OTTAWA.COM

PREP: G. MOLNAR
CHKD: C. PROULX
APPD: C. MALONE P.
DATE: 2009-01-13
SCALE: 1:40 @ ANSIB

<b>ENGINEERING SPECIFICATION GROUNDING TRANSFORMER BASE &amp; SWITCHGEAR MANHOLE COMBINATION END TO END GROUNDING DETAIL</b>	
UGS0008	NO: <span style="border: 1px solid black; padding: 2px;">1</span> / <span style="border: 1px solid black; padding: 2px;">1</span> REV: 1