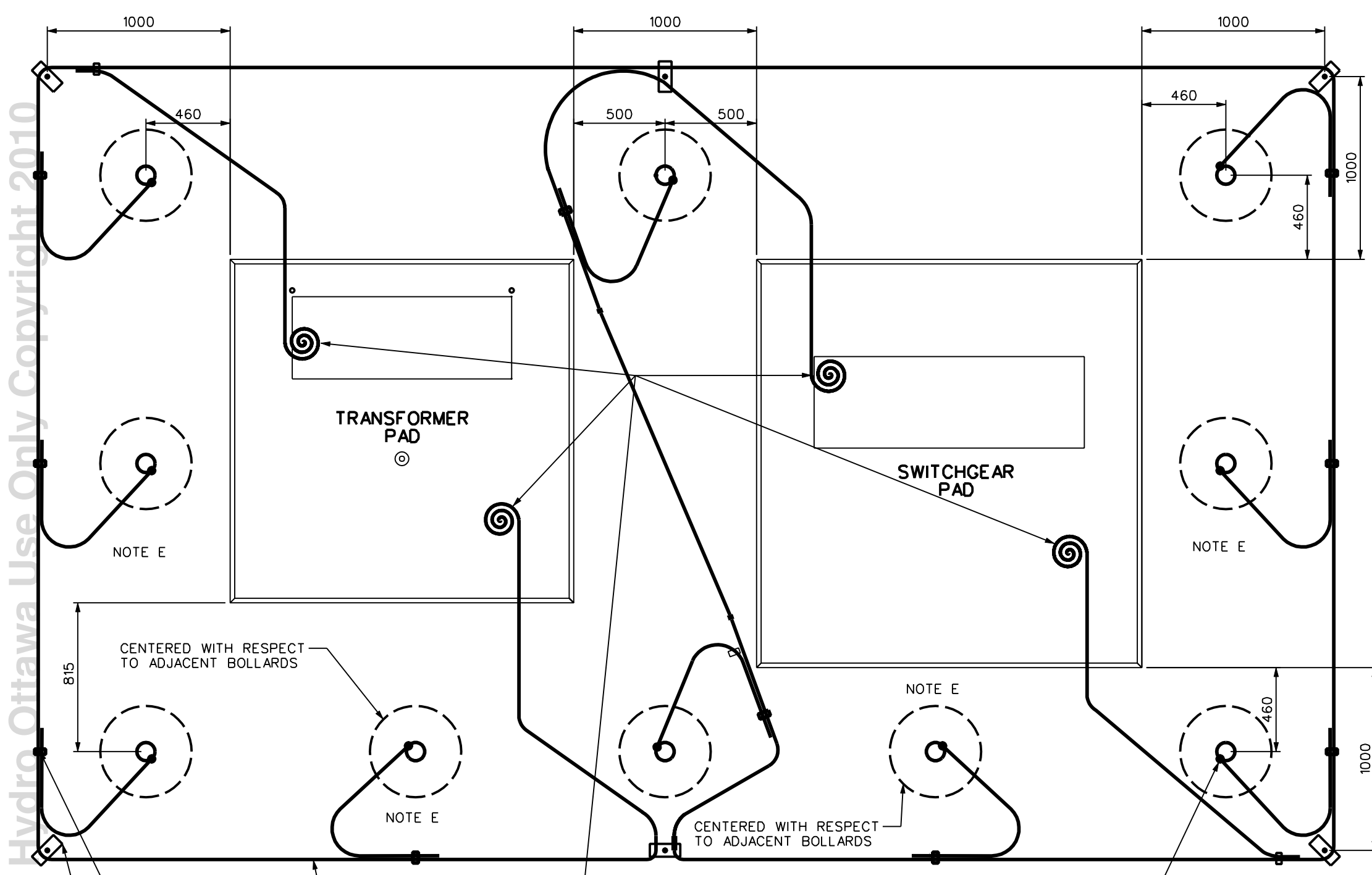


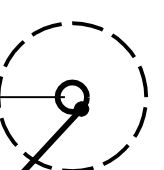
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- NOTES:**
- A. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
  - B. THE GROUNDING SHALL BE DONE IN ACCORDANCE WITH THE ONTARIO ELECTRICAL SAFETY CODE AND INSPECTED HYDRO OTTAWA PRIOR TO BACKFILLING. WHEN THE ELECTRICAL EQUIPMENT IS TO 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.

CENTERED WITH RESPECT TO ADJACENT BOLLARDS

815



BURNDY COMPRESSION GROUND CONNECTOR

19mm x 3000mm GROUND ROD (GALVANIZED OR COPPER CLAD) COMPLETE WITH GROUND ROD CLAMP STOCK NO. 476409 (MIN. 6 REQ'D.)

MINIMUM 3.0m [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 LOOP PLAN**

PROTECTIVE BOLLARD COMPLETE WITH GROUND TAIL AS PER UFS0001

REVISIONS				PREP	CHKD	APPD
REV: 1	DATE: 2008-05-13	GM	CP	CSM	 WWW.HYDRO-OTTAWA.COM	
CHANGE: REFERENCE TO UFS0001 LOCATION OF PROTECTIVE POSTS NOTE C						
REV: 2	DATE: 2009-01-12	CP	CP	CSM		
CHANGE: NOTE B REVISED RE ESA INSPECT					PREP: F. BOLO	
REV: 3	DATE: 27 -05-27	FB	RW	CSM	CHKD: C. MAGILL	
CHANGE: TITLE CHANGE					APPD: C. MALONE P.Eng.	
					DATE: 2002-06-03	
					SCALE: N.T.S. @ ANSIB	

TITLE		<b>ENGINEERING SPECIFICATION GROUNDING TRANSFORMER &amp; SWITCHGEAR BASES SIDE BY SIDE CONSTRUCTION DETAIL</b>	
NO:		<b>UGS0004</b>	
REV:	1	OF	3
	1		