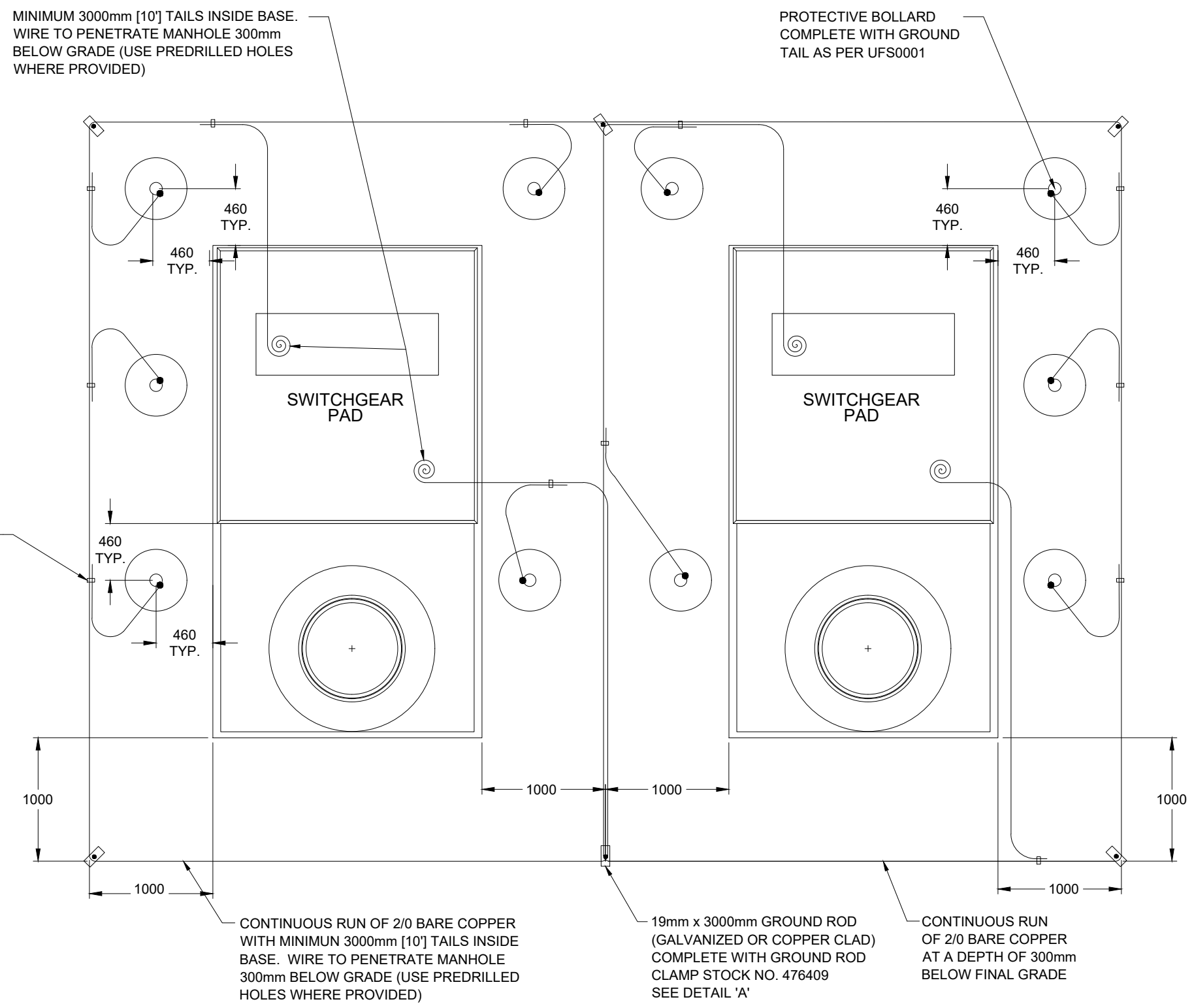
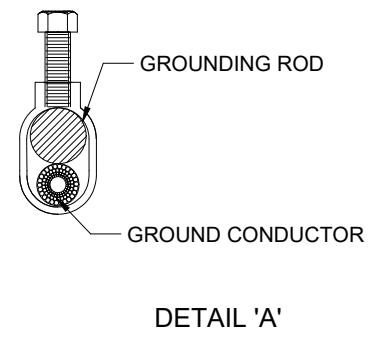


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**NOTES:**

- A. ALL DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
- B. THE GROUNDING SHALL BE DONE IN ACCORDANCE WITH THE ONTARIO ELECTRICAL SAFETY CODE AND INSPECTED 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  $\leq 25$  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.



BURNDY COMPRESSION GROUND CONNECTOR

MINIMUM 3000mm [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 WITH MINIMUM 3000mm [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 SEE DETAIL 'A'

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

REVISIONS		PREP	CHKD	APPD
REV: 1	DATE:			
CHANGE:				
REV:	DATE:			
CHANGE:				
REV:	DATE:			
CHANGE:				

**HydroOttawa**  
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PREP: E.VEH
CHKD: A. KHAIRI
APPD: M. WYNDHAM P.Eng
DATE: 2020-05-20
SCALE: N.T.S. @ ANSI B

TITLE	
<b>ENGINEERING SPECIFICATION GROUNDING TWO 612 SWITCHING MANHOLES SIDE BY SIDE CONSTRUCTION DETAIL</b>	
NO:	<b>UGS0011</b>
REV:	<b>0</b>

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