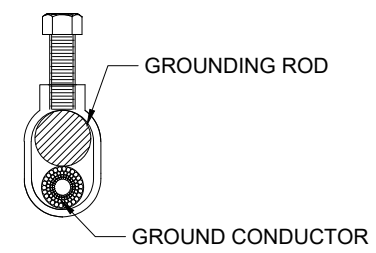


NOTES:

- 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 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 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.



DETAIL 'A'

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BURNDY COMPRESSION GROUND CONNECTOR

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

PROTECTIVE BOLLARD COMPLETE WITH GROUND TAIL AS PER UFS0001

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

GROUND LOOP PLAN

REVISIONS		PREP	CHKD	APPD
REV: 4	DATE: 2009-01-12	GM	CP	CSM
CHANGE: NOTE B REVISED RE ESA INSPECT				
REV: 5	DATE: 210-05-27	FB	RW	CSM
CHANGE: TITLE CHANGE				
REV: 6	DATE: 2020-03-31	EV	AK	MW
CHANGE: UPDATED NOTES, LOOP REDRAWN TO CLARIFY CONTINUOUS LOOP				

HydroOttawa
WWW.HYDROOTTAWA.COM

PREP: G. MOLNAR	ENGINEERING SPECIFICATION GROUNDING PRECAST 2 WAY SWITCHING MANHOLE 612 CONSTRUCTION DETAIL
CHKD: C. PROULX	
APPD: C. MALONE P. Eng	
DATE: 2003-02-26	
SCALE: N.T.S. @ ANSI B	UGS0005

TITLE ENGINEERING SPECIFICATION GROUNDING PRECAST 2 WAY SWITCHING MANHOLE 612 CONSTRUCTION DETAIL	UGS0005						
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