

NOTES:

- PROTECTIVE BOLLARD HEIGHT ABOVE GRADE:
  - FOR SINGLE-PHASE EQUIPMENT: 90cm
  - FOR THREE-PHASE EQUIPMENT: 120cm
- BOLLARDS SHALL BE PROVIDED AS SHOWN IN DESIGN DRAWINGS.
- BOLLARDS AT 'B' ARE OPTIONAL AND WOULD ONLY BE REQUIRED FOR HIGH TRAFFIC AREAS AND LARGE SIZED EQUIPMENT. REAR AND SIDE CENTER POSITIONS ARE GENERALLY NOT REQUIRED FOR SINGLE-PHASE EQUIPMENT DUE TO THEIR SMALL SIZE. ALSO BOLLARDS AT THE REAR AND SIDE OF THE EQUIPMENT MAY BE OMITTED AT LOCAL DISCRETION IF THE LIKELIHOOD OF DAMAGE/IMPACT IS LOW.
- LOCATION OF BOLLARDS SHOULD NOT OBSTRUCT EQUIPMENT OPERATION, MAINTENANCE AND REPLACEMENT.
- WHEN USING COMPRESSION CONNECTOR DRILL THROUGH HOLE IN THE PIPE AND REMOVE PAINT FROM CONNECTION AREA OF THE PIPE. ALTERNATIVELY SUPPLY AND INSTALL STEEL PIPE WITH 1/2" BONDING HARDWARE.
- DIMENSIONS WITH "\*" ARE PREFERRED TO BE 150cm WHERE POSSIBLE.
- SEE DU12-101-0500 FOR HYDRO ONE EQUIPMENT GROUND GRID DETAILS.

PARTS LIST			
PART No.	MM No.	DESCRIPTION	QTY.
1	30024855	CONNECTOR, COMPRESSION, 1-HOLE, FOR #4 AWG	A/R
2	30014480	CONDUCTOR, BARE, CU, #4	A/R
3	30028496	CONNECTOR, CU, FOR #4 AWG CU WIRE	A/R
MM# = REFER TO SECTION 16 ONLY			A/R = AS REQUIRED

ALL DIMENSIONS IN CENTIMETRES UNLESS OTHERWISE STATED

01	SEPT 2023	ORIGINAL DU-03-212-0500-R4 IS NOW SUPERSEDED BY THIS NEW DRAWING/REVISION. CHANGED TO SECTION 6. GENERAL UPDATES TO DIMENSIONS AND NOTES. UPDATED NOTES 3 & 5. ADDED NOTE 7 AND PARTS LIST. UPDATED FIG.1 & 2 TO MAIN FIGURE AND 'D1'.	PC	MM	MM	MM
Rev No.	Date	Revision Particulars	dwn	ckd	des	app

Drawn By: P.C	Checked By: M.MATEVSKI	Designed By: M.MATEVSKI	Design Approved By: M.MATEVSKI P.Eng.
Scale: N.T.S.	Date: (yyyy/mm/dd) 2021/02/02	Pole ID:	



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Title: PROTECTIVE BOLLARDS INSTALLATION	
Drawing No. DU6-107-0500	Rev. No. 01

TITLE BLOCK REV 02 - AUGUST 2014

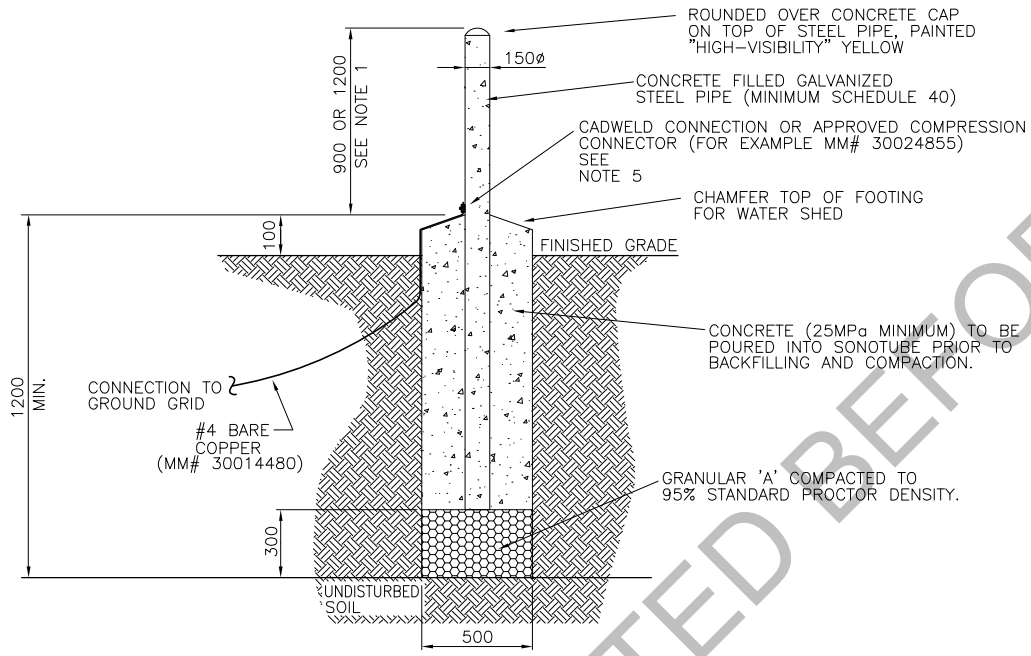


FIG. 1  
SECTION A-A  
ELEVATION VIEW

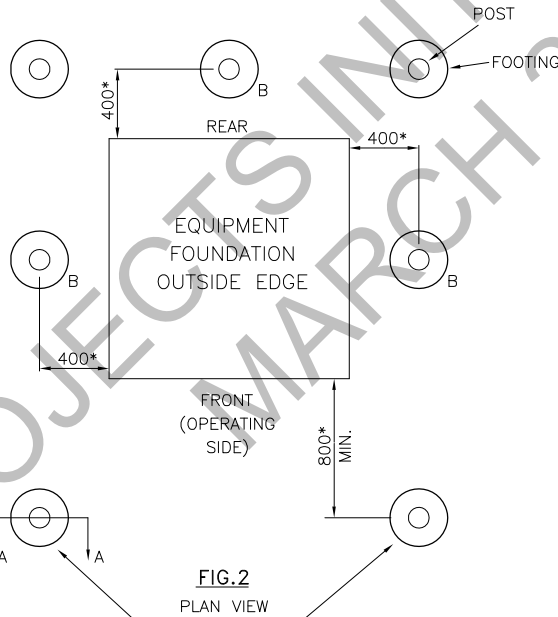


FIG. 2  
PLAN VIEW

THESE BOLLARDS ARE  
NON-OPTIONAL  
SEE  
NOTE 3

ALL DIMENSIONS IN MILLIMETRES  
UNLESS OTHERWISE STATED

NOTES:

1. PROTECTIVE BOLLARD HEIGHT ABOVE GRADE:  
FOR SINGLE PHASE EQUIPMENT – 900mm  
FOR THREE PHASE EQUIPMENT – 1200mm
2. BOLLARDS SHALL BE PROVIDED AS SHOWN ON DESIGN DRAWINGS.
3. BOLLARDS AT 'B' ARE OPTIONAL AND WOULD ONLY BE REQUIRED FOR HIGH TRAFFIC AREAS AND LARGE SIZED EQUIPMENT. BOLLARDS AT 'B' ARE GENERALLY NOT REQUIRED FOR SINGLE PHASE EQUIPMENT DUE TO THEIR SMALL SIZE. ALSO BOLLARDS AT THE REAR AND SIDE OF THE EQUIPMENT MAY BE OMITTED AT LOCAL DISCRETION IF THE LIKELIHOOD OF DAMAGE/IMPACT IS LOW.
4. LOCATION OF BOLLARDS SHOULD NOT OBSTRUCT EQUIPMENT OPERATION, MAINTENANCE AND REPLACEMENT.
5. WHEN USING COMPRESSION CONNECTOR DRILL THROUGH HOLE IN THE PIPE AND REMOVE PAINT FROM CONNECTION AREA OF THE PIPE.
6. DIMENSIONS WITH \* ARE PREFERRED TO BE 1500mm WHERE POSSIBLE

04	SEP 2018	GENERAL UPDATES & NOTE 3 CHANGES. CHANGED TO NEW DWG. & NUMBERING FORMAT. FOR PREVIOUS REVISIONS REFER TO DU-03-212-R3.	SO	PC	AS	PS
03	NOV 2007	NOTE 4 ADDED PREFERRED DIMENSIONS SPECIFIED. COMPRESSION CONNECTOR ADDED.	AD			DP
Rev No.	Date	Revision Particulars	dwn	ckd	des	app

Drawn By: S.O.	Checked By:	Designed By:	Design Approved By:
Scale: N.T.S.	Date: (yyyy/mm/dd) 2011/11/04	Pole ID:	
Title: PROTECTIVE BOLLARDS INSTALLATION			



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Drawing No. DU-03-212-0500	Rev. No. 04
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