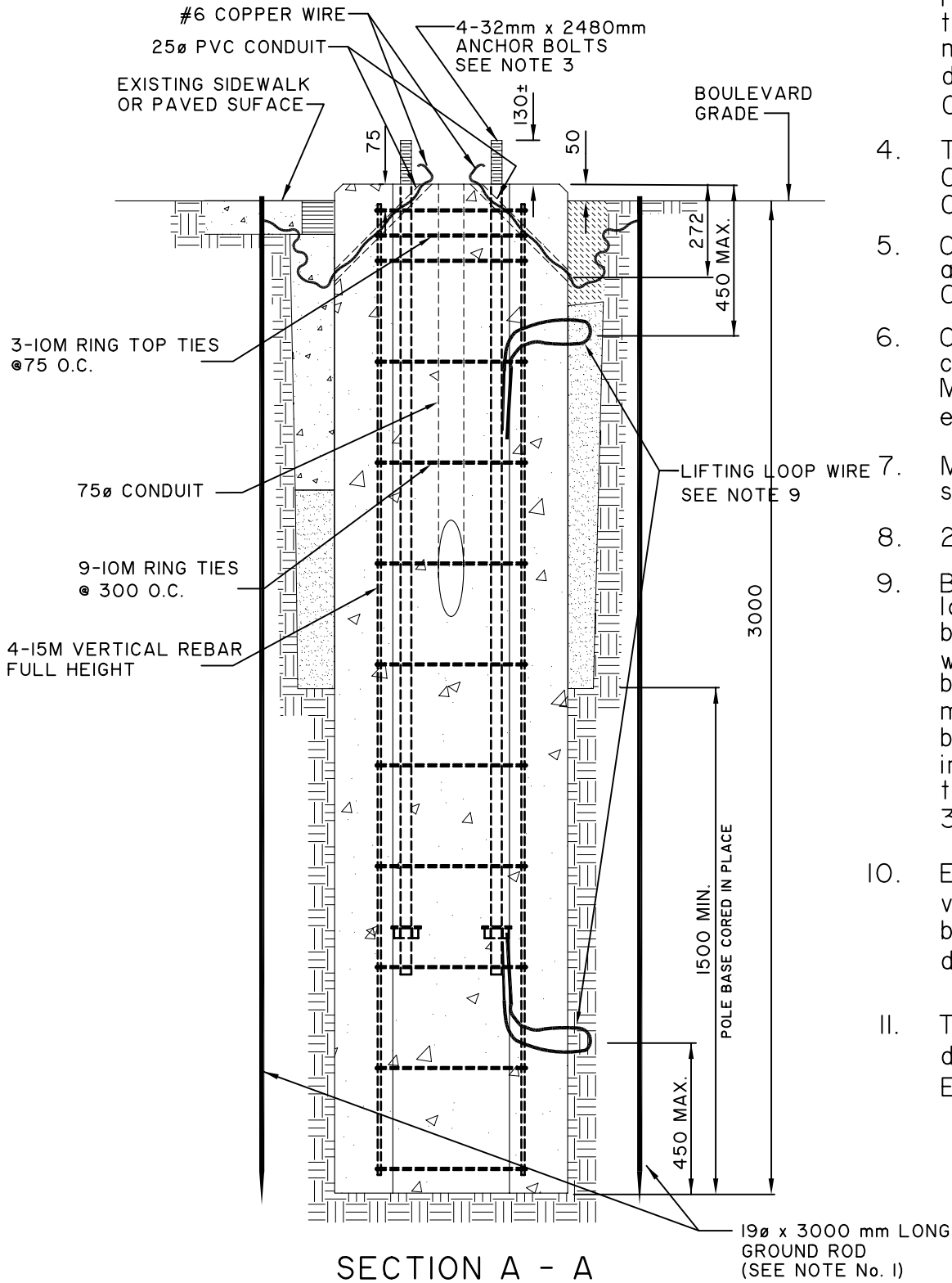


PLAN



SECTION A - A

19mm x 3000 mm LONG  
GROUND ROD  
(SEE NOTE No. 1)

DIMENSIONS IN MILLIMETRES  
(Unless otherwise noted)

NOTES:

1. Install ground rod in undisturbed soil.
2. Backfill shall conform to requirements of Drawing No. ST-101, "Standard Beddings and Backfills for Underground Traffic Signals Works".
3. Anchor bolts shall be 32mm x 2480mm long grade 300W as per CSA G40.21M threaded at both ends. Anchor bolt assembly shall be supplied C/W two 32mm hex nuts and flat round washer. One nut shall be threaded onto the embedded end of each anchor bolt. All material including nuts and washers to be hot dipped galvanized in accordance with CSA G153-M.
4. The precast concrete base shall conform to CSA specification CAN3-A23.1 and CAN3-A23.4.
5. Cement shall be type 50 sulphate resistant and shall conform to CSA specification CAN/CSA-A5/A8/A362.
6. Concrete to have a minimum specified compressive strength of 35 Mpa at 28 days, Max.water/cement ratio of 0.45 with entrained air of 5-8%.
7. Minimum concrete cover on all reinforcing steel shall be 40mm.
8. 25mm chamfer on all exposed concrete edges.
9. Bases shall be equipped with 2 side lifting loops of 3 strand x 4.0mm grade 130 (min. breaking strength = 25kN galvanized steel wire). the loops shall be centered on the balance point with the upper and lower loop a maximum of 450mm from the ends of the base. the base loops shall have a minimum internal clearance of 75mm and the ends of the wires shall be embedded a minimum of 300mm.
10. Each base shall be equipped with a prominent vee groove located in the chamfer of the base to indicate the location of the 75mm diameter conduit hole.
11. This drawing is base on engineering design drawing 0770250101-DWG-S0001 by Wardrop Engineering Inc. dated on November 5, 2008.



**THE CITY OF WINNIPEG**  
**PUBLIC WORKS DEPARTMENT**  
**TRANSPORTATION DIVISION**

Reference Spec. No.  
CW 3620

**PRECAST CONCRETE SIGNAL POLE BASE**  
**FOR 12.19m. (40') & 15.24m. (50')**  
**FOLD DOWN POLE**

Revisions

No.	Date	Description	By

Designed By:	Drawn By: N.B.	Scale : N.T.S.
Checked By:	Date: 08 - 12 - 11	Drawing No.
Approved:	ST-177	