

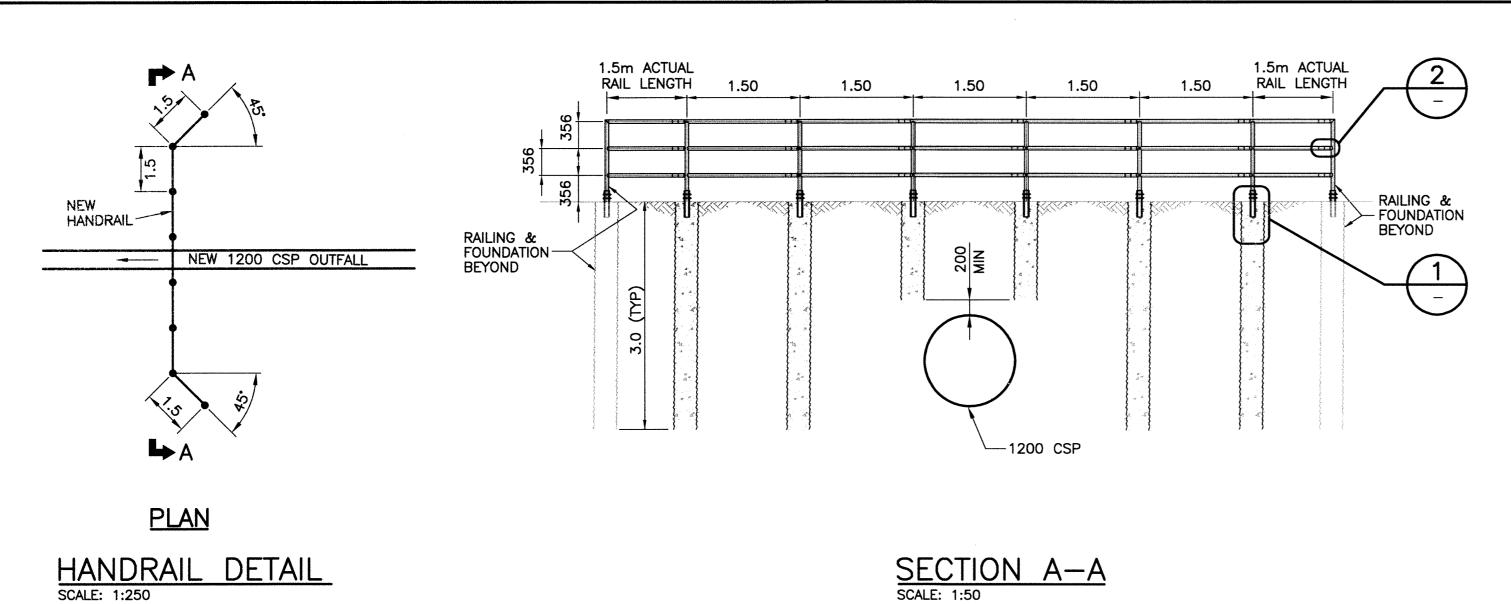


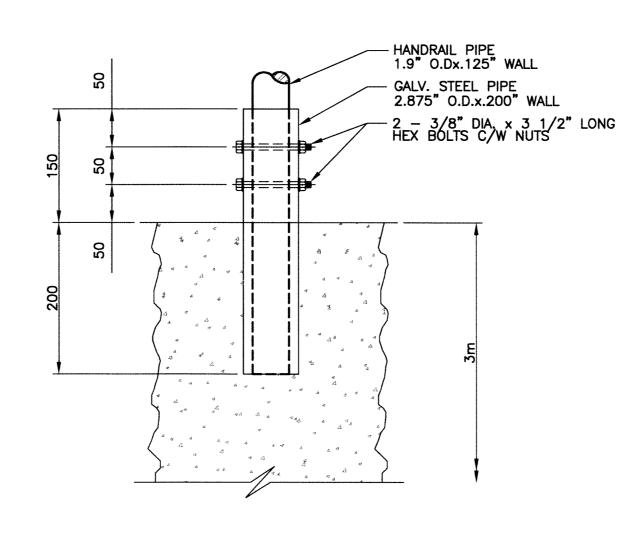


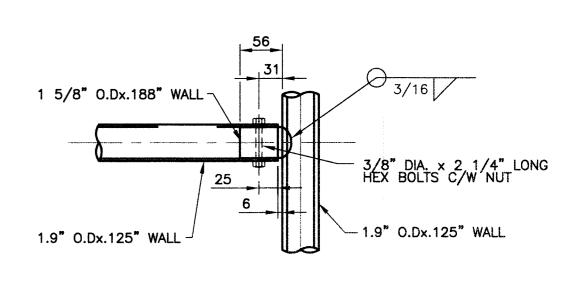
NOTES:

## GENERAL CONCRETE NOTES:

- 1. CONCRETE MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH CAN/CSA-A23.1/A23.2 (LATEST). SEE SPECIFICATIONS FOR MIX REQUIREMENTS.
- 2. CONCRETE MATERIALS, FORMING, PLACING, FORM REMOVAL, REINFORCING, ETC. TO ACI RECOMMENDATIONS AND ACCEPTABLE PRACTICE.
- 3. MIX WATER SHALL BE POTABLE. CALCIUM CHLORIDE SHALL NOT BE USED.
- 4. PROVIDE ADEQUATE PROTECTION FOR CONCRETE DURING CURING PERIOD. REINFORCING STEEL
- 1. REINFORCING STEEL TO BE NEW DEFORMED BILLET STEEL BARS CONFORMING TO CAN/CSA G30.18-M92. GRADES TO BE; 400 MPa FOR 15M BARS AND LARGER; 300 MPa FOR 10M BARS.
- 2. REINFORCING STEEL SHALL BE CLEAN, FREE OF RUST, DIRT, LOOSE SCALE, OIL, GREASE OR ANY OTHER MATERIAL WHICH WOULD REDUCE BOND WITH CONCRETE.
- 3. PROVIDE MINIMUM CONCRETE COVER FOR REINFORCING AS SHOWN ON DRAWINGS.







DETAIL SCALE: 1:5

300mm x 3.0m LONG CSP FILLED WITH CONCRETE

DATE



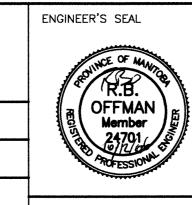
## **APEGIN**

Certificate of Authorization KGS Group

No. 245 Date: Dec 6,260 THE CITY OF WINNIPEG

SHEET

**KGS** LOCATION APPROVED | B.M. UNDERGROUND STRUCTURES GROUP CONSULTING ENGINEERS SUPV. U/G STRUCTURES DATE COMMITTEE DESIGNED BY RO G RB0 LOCATION OF UNDERGROUND STRUCTURES AS DRAWN BY APPROVED SHOWN ARE BASED ON THE BEST INFORMATION DMW AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. RELEASED FOR HOR. SCALE: 1:250 VERTICAL: 1:50 CONFIRMATION OF EXISTENCE AND EXACT CONSTRUCTION: LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES O ISSUED FOR TENDER BEFORE PROCEEDING WITH CONSTRUCTION.



Winnipeg

2010 OUTFALL REPAIRS POLSON AVENUE LINING SECTIONS

WATER & WASTE DEPARTMENT

05 04 CAD FILE DRAWING NUMBER POLSON RR-83 CITY DRAWING NUMBER

NO. REVISIONS

DATE BY DATE 10/10/01

CONSULTANT DRAWING NO. 10-0107-18\_05

AND MISCELLANEOUS DETAILS

LD-5585