



SECTION A-A

- NOTES:
- RAILWAY CROSSING DRAWINGS SHALL BE SUBMITTED TO DIRECTOR AND SHALL SHOW THE FOLLOWING INFORMATION:
 - DRAWINGS MUST BE TO SCALE AND HAVE ALL DIMENSIONS SHOWN
 - RAILWAY MILEAGE AND SUBDIVISION
 - INDICATED DIRECTION OF FLOW AND NEAREST SHUT-OFF VALVES
 - PROVIDE A PROFILE INDICATING DEPTH OF INSTALLATION
 - PROVIDE INFORMATION PER CHART BELOW
 - INCLUDE SECTION 'A-A', OR NOTE THAT CARRIER SHALL BE HELD CLEAR OF CASING BY PROPER SUPPORTS
 - NOTE WARNING MARKERS TO BE INSTALLED AT LIMITS OF RAIL ROW, AS APPLICABLE
 - NOTE PROPOSED METHOD OF INSTALLATION
 - NOTE LOCATION OF PROPOSED JACKING AND RECEIVING PITS RELATIVE TO GAUGE (INSIDE) SIDE OF NEAREST RAIL
 - INCLUDE THE CAPTION "CONSTRUCTION AND MAINTENANCE TO BE IN ACCORDANCE WITH THE CANADIAN TRANSPORTATION AGENCY GENERAL ORDER E-10"
 - ENSURE WALL THICKNESS OF CARRIER AND CASING PIPES CONFORM TO TRANSPORT CANADA REQUIREMENTS (COOPER E-90 LOADING).
 - NO EXTERNAL LOADS WILL BE TRANSMITTED TO THE CARRIER PIPE BY USE OF APPROVED PIPE LINE SPACERS.
 - DEPTH OF BURIAL FROM THE BASE OF RAIL TO BE A MINIMUM 1.70m OR BELOW THE FROST LINE.
 - CASING SHALL EXTEND THE FULL WIDTH OF THE RAILWAY ROW.
 - THE CASING SHALL BE INSTALLED SO AS TO PREVENT THE FORMATION OF A WATERWAY UNDER THE RAILWAY, WITH AN EVEN BEARING THROUGHOUT ITS LENGTH, AND SHALL SLOPE TO ONE END (EXCEPT FOR LONGITUDINAL OCCUPANCY).
 - THE CASING PIPE SHALL BE SO CONSTRUCTED AS TO PREVENT LEAKAGE OF ANY SUBSTANCE FROM THE CASING THROUGHOUT ITS LENGTH EXCEPT AT THE ENDS WHERE FREE FLOW MUST BE MAINTAINED.
 - GROUTING OF THE SPACE BETWEEN THE CARRIER AND CASING WILL NOT BE PERMITTED.
 - THE ENDS OF THE CASING PIPE SHALL NOT BE SEALED BY ANY LOAD TRANSFERRING MATERIAL.
 - SEE SPECIFICATION MATERIAL LIST FOR APPROVED LIST OF SPACERS AND END SEALS.
 - DESIGN SHOP DRAWING REQUIRED SEALED BY A PROFESSIONAL ENGINEER LICENSED IN ONTARIO.
 - SITE SPECIFIC SHOP DRAWINGS REQUIRED AS PER CURRENT OCCUPATIONAL HEALTH AND SAFETY.

CASING PIPE SPECIFICATION

OUTSIDE DIA.: _____
 INSIDE DIA.: _____
 WALL THICKNESS: _____
 PIPE SPECIFICATION: _____
 LENGTH: _____
 MATERIAL: _____
 CATHODIC PROTECTION: _____

CARRIER PIPE SPECIFICATION

INSIDE DIA.: _____
 WALL THICKNESS: _____
 PIPE SPECIFICATION: _____
 MATERIAL: _____
 OPER./MAX. PRESSURE: _____
 CATHODIC PROTECTION: _____



Watermain Rail Crossing

| | |
|----------|----------------|
| REV No. | DATE: APR 2023 |
| 2 | SCALE: N.T.S |

W521