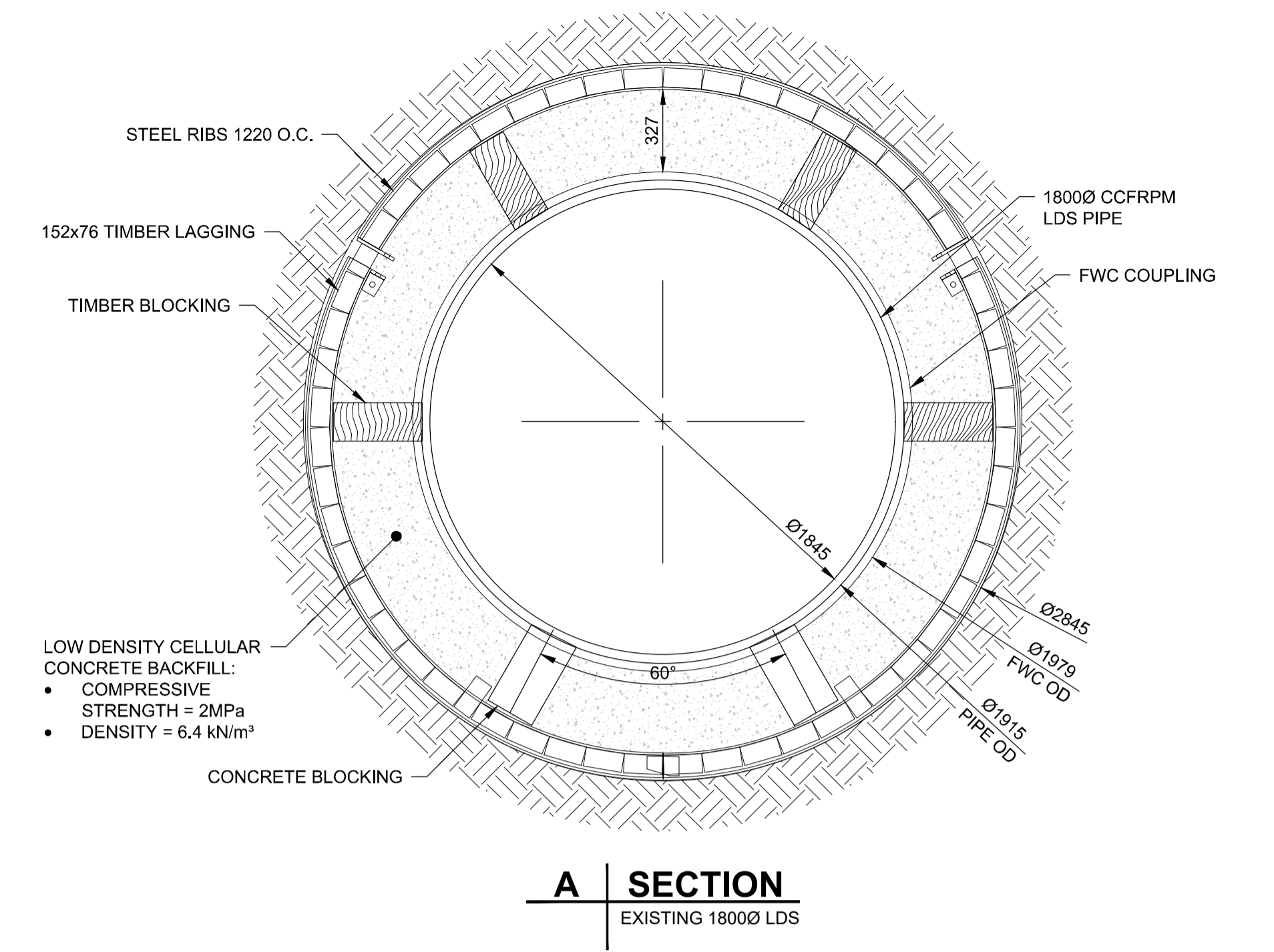
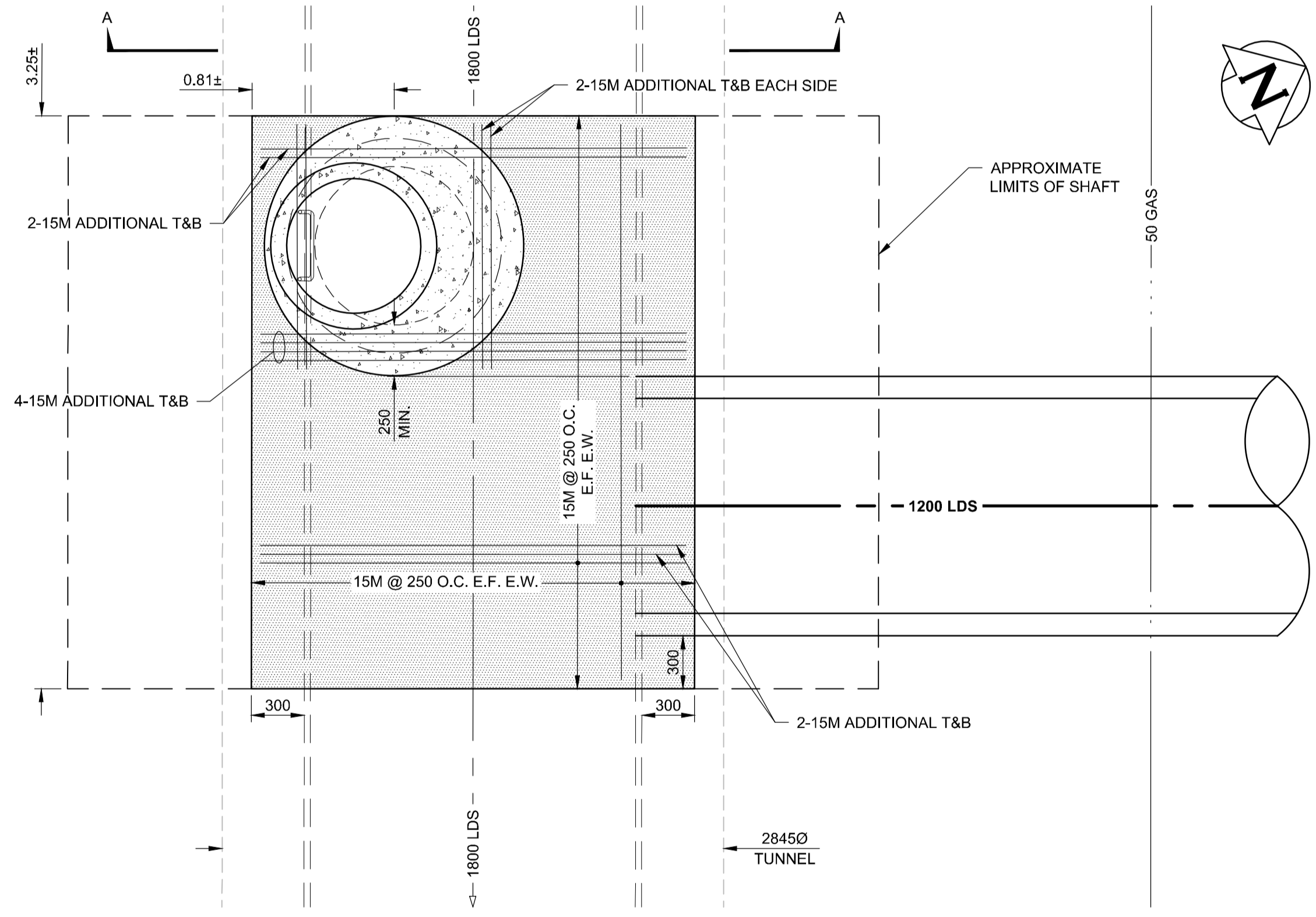


SECTION

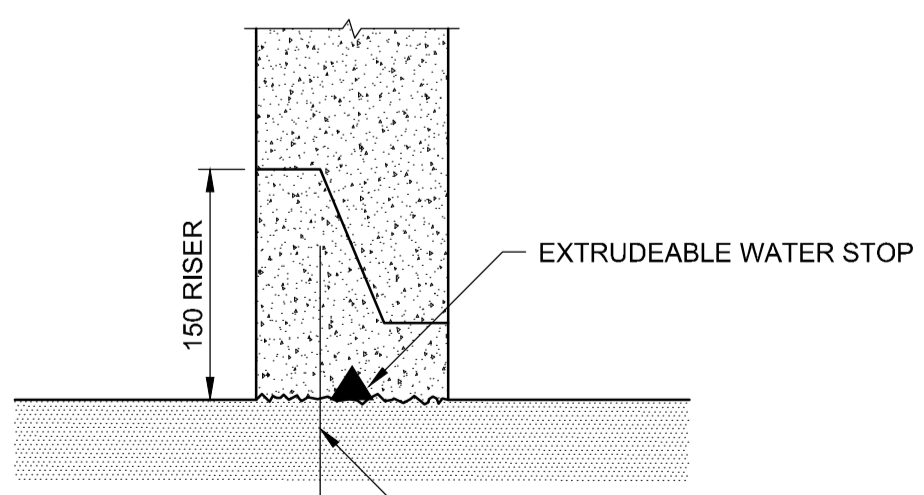
- GENERAL NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE IN METERS AND ARE TO GEODETIC DATUM. THE CONTRACTOR SHALL VERIFY DIMENSIONS BEFORE BEGINNING CONSTRUCTION AND REPORT DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK. DO NOT SCALE THE DRAWINGS.
 2. DISCREPANCIES OR AMBIGUITIES ON THE DRAWINGS AND/OR SITE, WHICH AFFECT THE STRUCTURAL FRAMING SHALL BE REPORTED TO THE ENGINEER.
 3. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UNDERGROUND SERVICES PRIOR TO START OF CONSTRUCTION.
 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF ALL NECESSARY SHORING, BRACING AND FORM WORK. SUBMIT SHOP DRAWINGS PRIOR TO CONSTRUCTION.
 5. NOTIFY CONTRACT ADMINISTRATOR AT LEAST 72 HOURS PRIOR TO ALL CONCRETE POURS AND/OR INSTALLATION OF INTERIOR SHEATHING/FORMING, TO ALLOW FOR SITE REVIEWS.
- CONCRETE:**
1. ALL CONCRETE WORK TO CSA A23.1 (LATEST). TEST CONCRETE TO CSA A23.2 (LATEST).
 2. CONCRETE SHALL BE IN ACCORDANCE WITH CW 2160 AND MEET THE FOLLOWING REQUIREMENTS:
EXPOSURE CLASS: S-1
MIN 28 DAY COMP. STRENGTH: 35 MPa
75mm: BOTTOM OF BASE SLAB
CONCRETE COVER: 50 mm: ROOF, WALLS, TOP OF BASE SLAB
 3. DESIGN, FABRICATE, AND ERECT FORMWORK/SHORING IN ACCORDANCE WITH CAN/CSA-289.3 (LATEST). ALLOW SUFFICIENT CONCRETE CURING TIME PRIOR TO REMOVAL.
 4. PROVIDE ADEQUATE HOT/COLD WEATHER PROTECTION AS REQUIRED DURING CURING PERIOD.
 5. PLACE AND SECURE ALL EMBEDDED ANCHORS, WELD PLATES, SLEEVES, BUCKS, DOWELS, INSERTS, WATERSTOPS, ETC., PRIOR TO PLACING CONCRETE.
 6. THE CONCRETE SUPPLIER SHALL BE CERTIFIED TO MEET THE REQUIREMENTS OF CSA A23.1.
 7. THE SUPPLIER SHALL SUBMIT CONCRETE MIX DATA SUBMISSION FORMS FOR REVIEW PRIOR TO BATCHING ANY CONCRETE. THE FORMS SHALL DEMONSTRATE THAT THE CONCRETE MEETS THE SPECIFIED PERFORMANCE CRITERIA.
- REINFORCING STEEL:**
1. REINFORCING STEEL SHALL BE NEW DEFORMED BARS IN ACCORDANCE WITH CW 2160 AND CSA G30.18 "BILLET STEEL BARS FOR CONCRETE REINFORCEMENT" (LATEST), WITH MIN 400 MPa YIELD STRENGTH.
 2. DEFORMED BARS CONFORMING TO CSA G30.18 (LATEST), GRADE 400, CLASS B TENSION LAP SPLICES AS PER CSA A23.3 (LATEST) SHALL BE USED UNLESS OTHERWISE NOTED.
 3. REINFORCING WORK SHALL BE IN ACCORDANCE WITH CSA A23.1 (LATEST) AND CSA A23.3 (LATEST).
 4. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO FABRICATION.



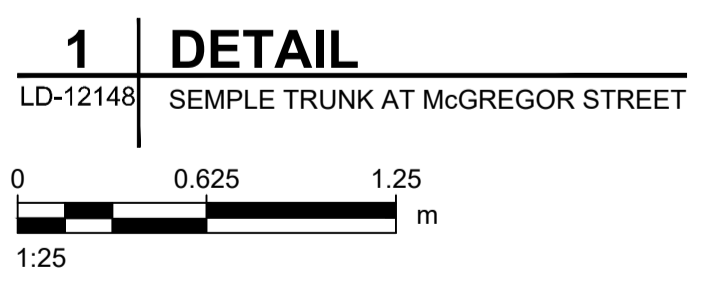
A SECTION
EXISTING 1800Ø LDS



PLAN



2 | DETAIL



1 | DETAIL
LD-12148 | SAMPLE TRUNK AT MCGREGOR STREET

**ENGINEERS
GEOSCIENTISTS
MANITOBA**
Certificate of Authorization
AECOM Canada Ltd.
No. 4671 Date: 23/09/20

<p>WARNING</p> <p>IF POWER EQUIPMENT OR EXPLOSIVES ARE TO BE USED FOR EXCAVATION ON THIS PROJECT THE CONTRACTOR MUST:</p> <ol style="list-style-type: none"> 1) NOTIFY THE GAS COMPANY OF THE PROPOSED LOCATION OF EXCAVATION. 2) TAKE PRECAUTION TO AVOID DAMAGE TO GAS COMPANY INSTALLATIONS. <p>SEE PROVINCIAL REGULATION 210/72 FOR DETAILS</p>	<p>LOCATION APPROVED UNDERGROUND STRUCTURES</p> <p>SUPV. U/G STRUCTURES COMMITTEE DATE</p> <p>NOTE: LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.</p>	<p>B.M. ELEV.</p> <p>CONSTRUCTION COMPLETION DATE: YYYY MM DD</p>	<p>AECOM</p> <p>DESIGNED BY: JAT CHECKED BY: MPG DRAWN BY: ADL APPROVED BY: KWF SCALE: HORIZONTAL AS NOTED VERTICAL AS NOTED DATE: 2023 09 21</p>	<p>ENGINEER'S SEAL</p> <p>ORIGINAL SIGNED BY J.A. THOMPSON 23/09/20</p> <p>RELEASED FOR CONSTRUCTION S Cournoyer DATE: 23 09 20</p>	<p>THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT ENGINEERING SERVICES DIVISION</p> <p>JEFFERSON EAST COMBINED SEWER RELIEF CONTRACT 9 STANDARD DETAILS</p>	<p>SHEET 14 OF 14 CITY DRAWING NUMBER LD-12159</p>