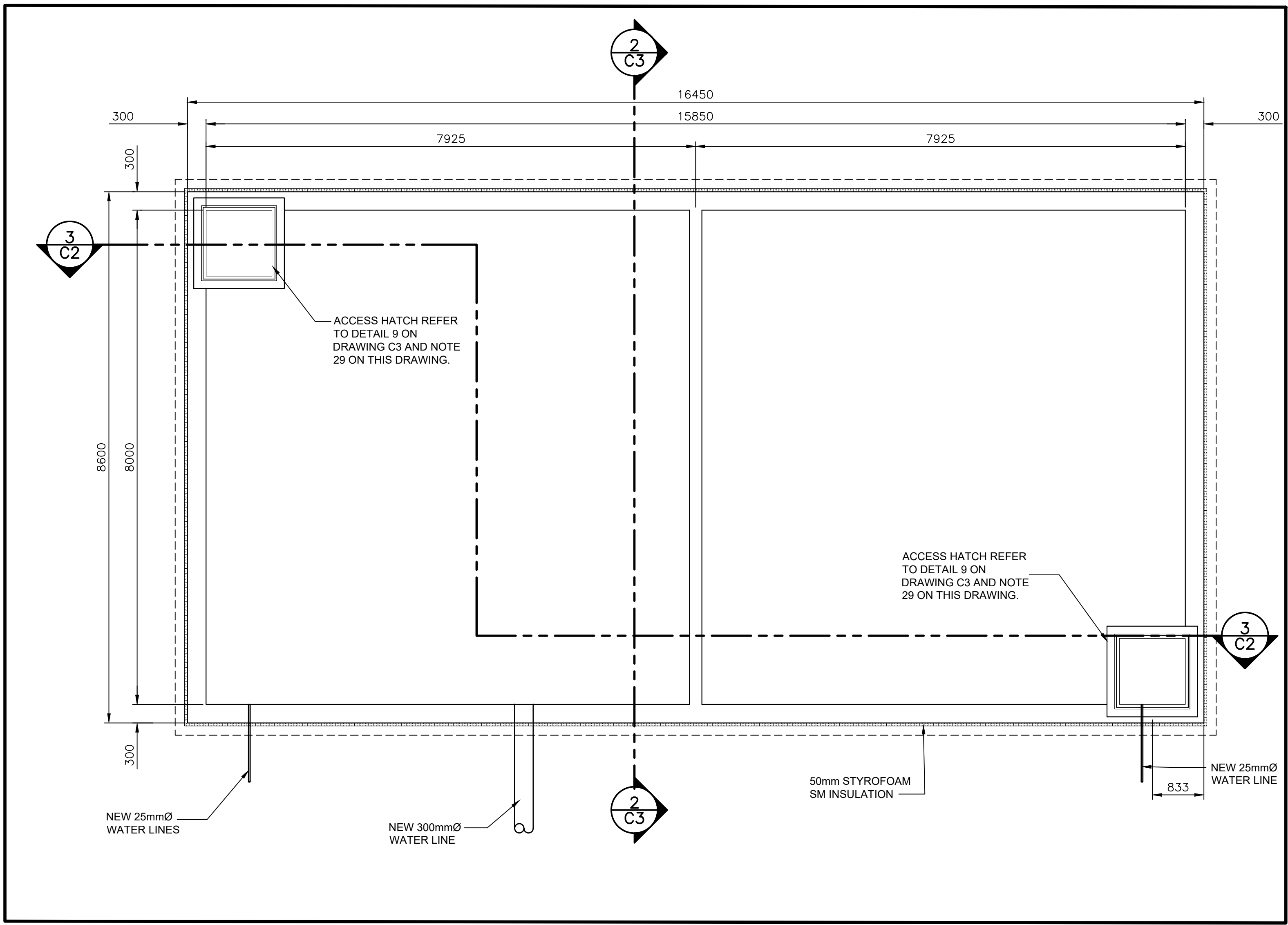
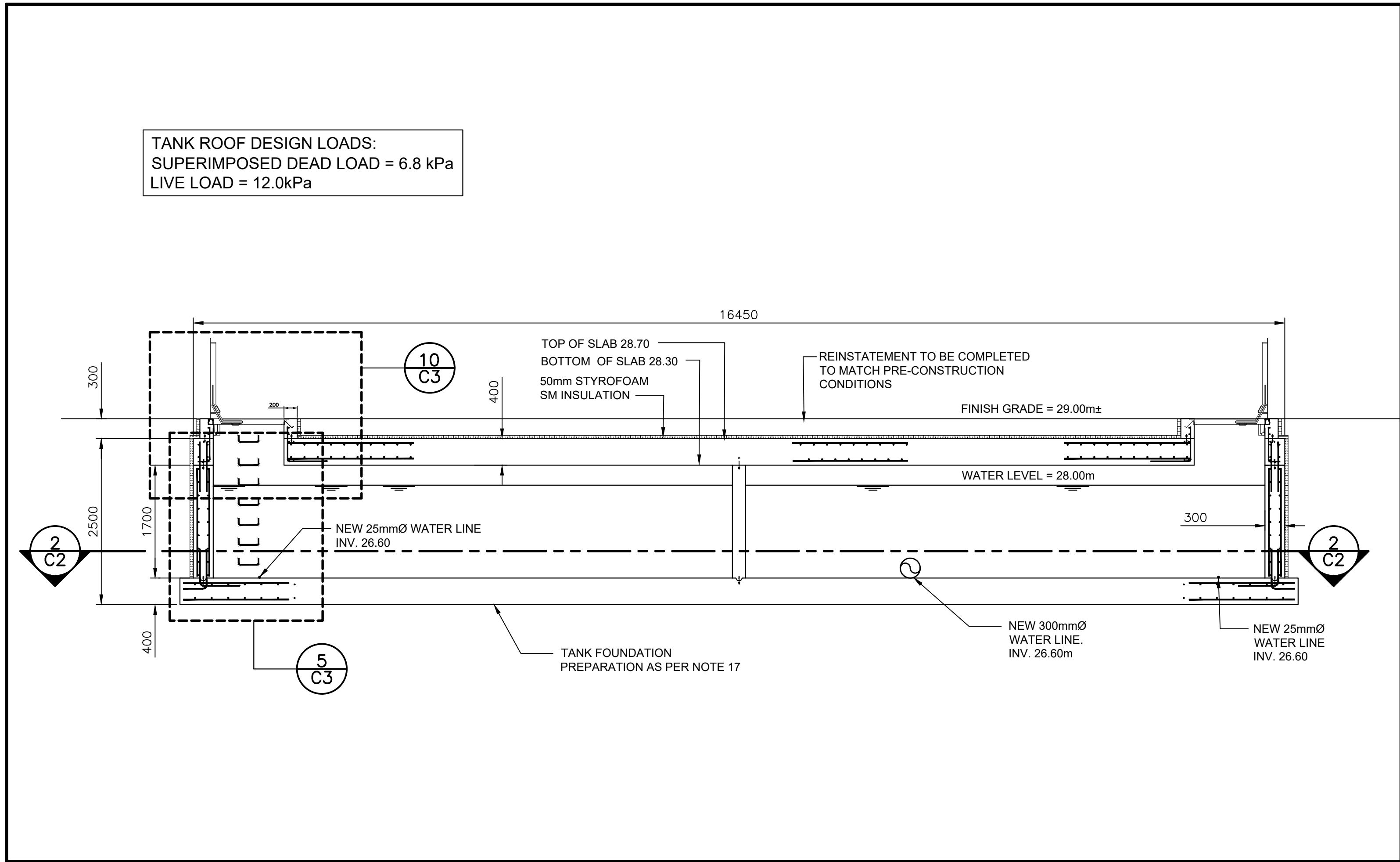


NOTES:

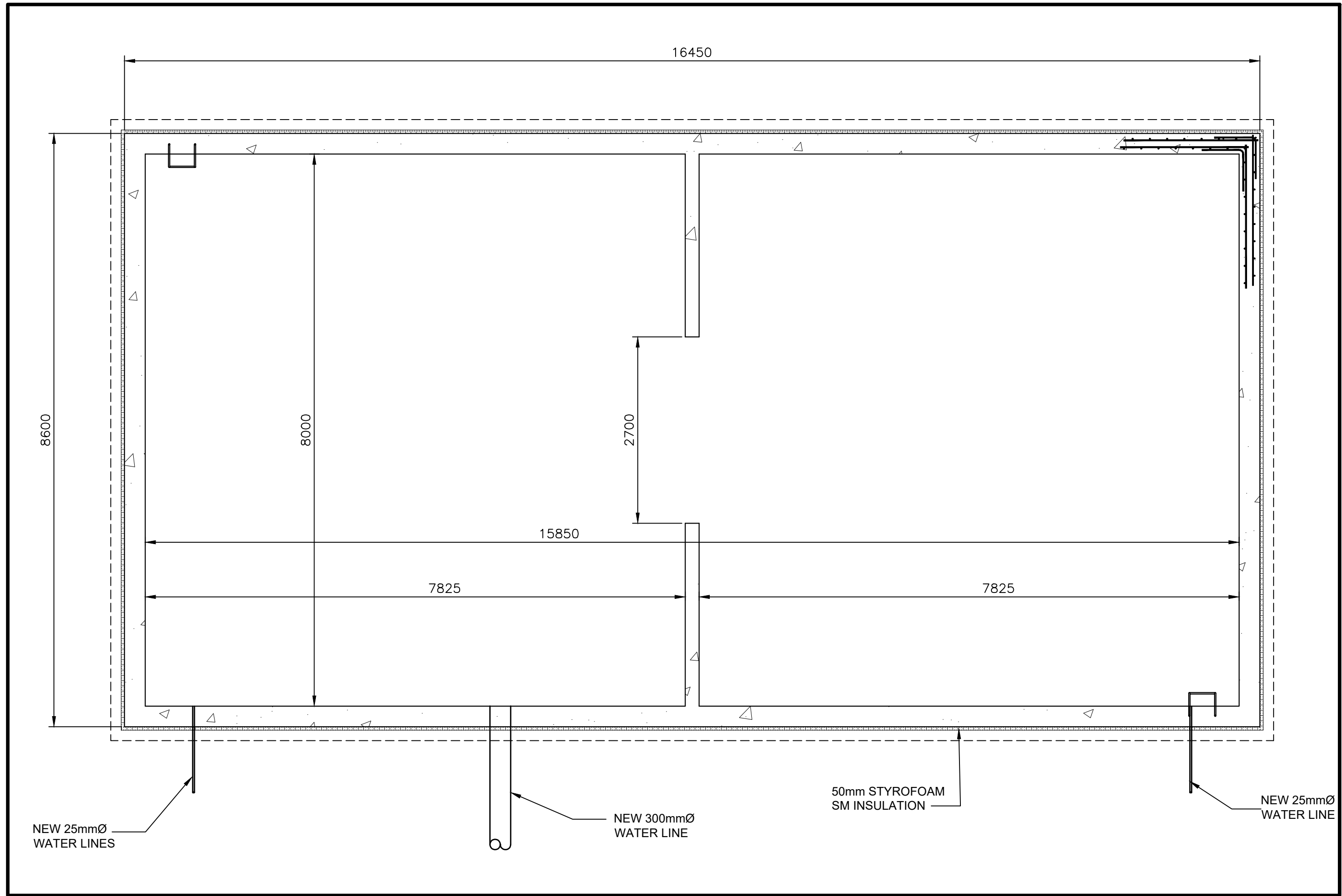
- ALL CONCRETE PRODUCTION, PLACEMENT, TESTING AND WEATHER PROTECTION TO CONFORM TO CSA STANDARD CSA-A23.1/A23.2 (LATEST EDITION).
- CONCRETE CLASS OF EXPOSURE: C-3.
- CONCRETE COMPRESSIVE STRENGTH (MIN. @ 28 DAYS): 30MPa - MAX. SLUMP 75mm
- CAST-IN-PLACE CONCRETE CONTAINS 4% TO 7% ENTRAINED AIR AND SHALL BE A MAXIMUM WATER TO CEMENT RATIO OF 0.50.
- MAXIMUM SIZE OF AGGREGATE: 20mm.
- ALL CONCRETE SHALL INCLUDE A CRYSTALLINE WATERPROOFING ADMIXTURE. ADD TO CONCRETE MIXTURE AT BATCH PLANT. ACCEPTABLE PRODUCT: AQUIFIN-IC ADMIX. DOSAGE RATES AS PER MANUFACTURER'S INSTRUCTIONS.
- ALL CONCRETE ADDITIVES SHALL BE APPROVED BY THE ENGINEER.
- NO CONCRETE SHALL BE POURED WITHOUT PRIOR APPROVAL OF THE DEPARTMENTAL REPRESENTATIVE.
- CONSTRUCTION JOINTS ARE NOT PERMITTED EXCEPT BETWEEN WALLS AND BASE / ROOF SLABS.
- PROVIDE WATERSTOPS AT ALL WALL-SLAB JOINTS AND CONSTRUCTION JOINTS. HYDROPHILIC C/W ADHESIVE OR PVC RIBBED ARE ACCEPTABLE.
- CLEAR CONCRETE COVER TO REINFORCING 60mm, EXCEPT 75mm FOR CONCRETE CAST AGAINST EARTH.
- ALL REINFORCING STEEL SHALL BE A MINIMUM YIELD STRENGTH OF 400MPa AND CONFORMS TO CSA G30.18.
- ALL REINFORCING STEEL SHALL BE DETAILED, FABRICATED, PLACED, AND SUPPORTED IN ACCORDANCE WITH ACI 315 AND CSA A23.1(LATEST EDITIONS).
- ALL REINFORCING STEEL SHALL BE LAPPED IN ACCORDANCE WITH CSA A23.3 AS FOLLOWS, *wh* OTHERWISE:
 - SPLICES SHALL BE TENSION LAP SPLICES, CLASS "B" MINIMUM 300mm *wh* OTHERWISE.
 - NO MORE THAN 50% OF REINFORCING SHALL BE SPLICED AT ANY GIVEN LOCATION.
- PROVIDE SLAB CHAIRS AND SUPPORT BARS IN ACCORDANCE WITH REINFORCING STEEL INSTITUTE OF CANADA
- GENERAL CONTRACTOR TO ENSURED THAT CONCRETE STRENGTH CYLINDERS SHALL BE CAST AND TESTED BASED ON NOT LESS THAN ONE STRENGTH TEST, CONSISTING OF 3 STANDARD CYLINDERS, MADE FOR EACH 100 cu.m. OF CONCRETE PLACED, AND IN NO CASE SHALL BE THERE FEWER THAN ONE TEST FOR EACH CLASS OF CONCRETE, ON ANY ONE DAY AS PER CAN/CSA A23.2. TEST RESULTS SHALL BE FORWARDED TO THE DEPARTMENTAL REPRESENTATIVE.
- REMOVE ALL SOIL AND ROCK REQUIRED TO FACILITATE TANK INSTALLATION. FOUNDING ON BEDROCK IS ANTICIPATED AS PER THE GEOTECHNICAL REPORT. IF FOUNDING ON BEDROCK IS NOT AVAILABLE FOR AREAS OF THE TANK THE CONTRACTOR SHALL PREPARE THE SUBGRADE FOR TANK FOUNDATION ACCEPTANCE AS PER RECOMMENDATIONS MADE IN THE GEOTECHNICAL REPORT. TANK TO REST ON MATERIAL HAVING A MINIMUM SAFE BEARING CAPACITY OF 150kPa. BEARING LEVEL SHALL BE INSPECTED BY A GEOTECHNICAL CONSULTANT PROCURED BY THE CONTRACTOR PRIOR TO POURING. CONSULT GEOTECHNICAL REPORT FOR SUBSURFACE CONDITIONS.
- REFER TO GEOTECHNICAL REPORT (#21221) FOR ENCOUNTERED SUBSURFACE CONDITIONS AND BOREHOLE LOGS FOR LOCATIONS IDENTIFIED ON PLAN DRAWING C1.
- CONTRACTOR RESPONSIBLE FOR GROUNDWATER CONTROL DURING CONSTRUCTION.
- CONTRACTOR RESPONSIBLE FOR SHORING OF EXCAVATIONS DURING CONSTRUCTION, IF REQUIRED.
- DESIGN, CONSTRUCT AND PLACE FORMWORK, FRAMING SUPPORTS AND BRACING CONFORMS TO REQUIREMENTS SPECIFIED IN CSA-A23 AND CSA S269.1 AND IN ACCORDANCE WITH SECTION 03 10 00 OF THE SPECIFICATION.
- REMOVE FORMWORK WHEN THE CONCRETE HAS ACHIEVED 70% OF ITS DESIGN STRENGTH OR MINIMUM PERIODS NOTED IN THE SPECIFICATION, WHICHEVER COMES LATER AND REPLACE IMMEDIATELY WITH ADEQUATE RESHORING.
- RESHORING TO REMAIN IN PLACE UNTIL CONCRETE HAS ACHIEVED FULL 28 DAY DESIGN STRENGTH AS VERIFIED BY CONCRETE TEST IN ACCORDANCE WITH A23.1.
- SPACE RESHORING IN EACH PRINCIPAL DIRECTION AT NOT MORE THAN 3000mm APART.
- DO NOT CAST ROOF SLAB UNTIL WALLS HAVE ACHIEVED 100% DESIGN STRENGTH CONFIRMED BY THREE (3) COMPRESSIVE STRENGTH TEST..
- CONTRACTOR TO PERFORM LEAKAGE TEST PRIOR TO BACKFILLING AS PER SECTION 33 05 16.
- CONSTRUCT MANHOLE COVERS AND ACCESS HATCHES AS PER SECTION 33 05 16.
- ALL MANHOLES TO BE STANDARD FRAME WITH BOLT DOWN COVERS.
- ACCESS HATCH DIMENSIONS AS PER DETAIL 9 ON DRAWING C3. HATCH TO HAVE THE CAPABILITY OF WITHSTANDING LOADING IMPARTED FROM A H-20 DESIGN VEHICLE.
- PIPES PASSING THROUGH WALLS INCLUDE AN INTEGRAL WATERSTOP.
- ALL DETAIL DIMENSIONS AND REBAR SPACING ARE IN MILLIMETERS, UNLESS NOTED OTHERWISE.



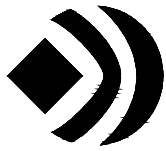
ROOF PLAN



SECTION



SECTION



SNC • LAVALIN



PROVINCE OF NEWFOUNDLAND AND LABRADOR
ENGINEERING PERMIT N0458
SNC - LAVALIN INC.
Signature or Member Number (Member-in-Responsible Charge)

CO2	REVISED FOR TENDER	04/01/2022
CO1	ISSUED FOR TENDER	03/16/2022
revisions		date

project
ST. ANTHONY AIRPORT FIRE PUMP REPLACEMENT
NEWFOUNDLAND-LABRADOR
project

drawing
WATER STORAGE TANK – PLAN, SECTIONS AND NOTES
dessin

designed W. BRADBURY	conçu W.B.
date 2021.04.16	
drawn J. BROWN	dessiné
date 2021.04.16	
approved S. LUNDRIGAN	approuvé
date 2022.01.14	
Tender	Soumission

PWGSC Project Manager / Administrateur de projets TPSGC
project number / no. du projet
R.104845.001
drawing no. / no. du dessin

C2