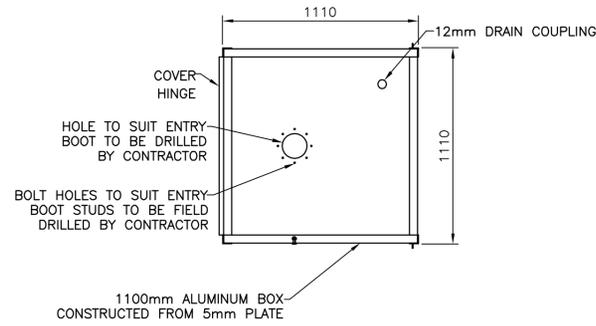
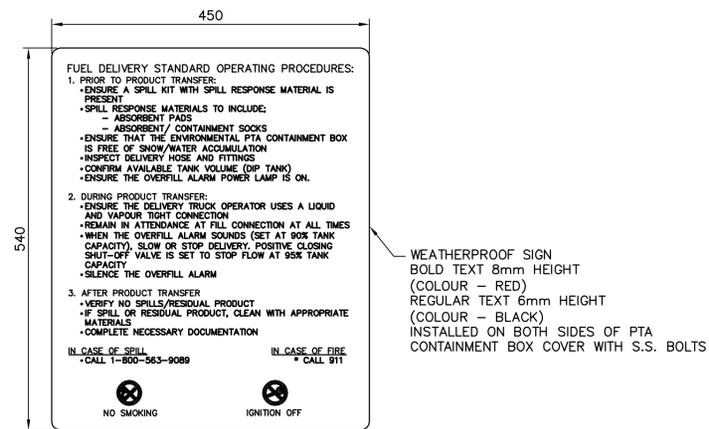


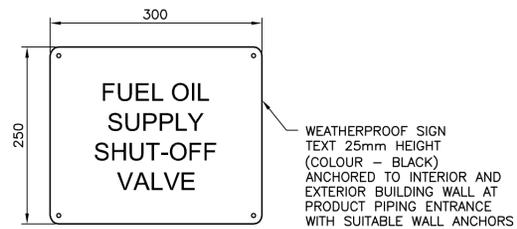
1
M3
PRODUCT TRANSFER AREA CONTAINMENT BOX DETAIL
SCALE : 1:20
0mm 500mm 1000mm 1500mm 2000mm 2500mm



2
M3
PRODUCT TRANSFER AREA CONTAINMENT BOX PLAN
SCALE : 1:20
0mm 500mm 1000mm 1500mm 2000mm 2500mm



3
M3
PRODUCT TRANSFER AREA STANDARD OPERATING PROCEDURES SIGN DETAIL
SCALE: 1:5
0mm 100mm 200mm 300mm 400mm 500mm



4
M3
FUEL SUPPLY SHUTOFF SIGN DETAIL
SCALE: 1:5
0mm 100mm 200mm 300mm 400mm 500mm

PRODUCT TRANSFER AREA:

THIS DESIGN HAS BEEN DEVELOPED TO MEET THE INTENT OF THE REQUIREMENTS FOR A PRODUCT TRANSFER AREA IN ACCORDANCE WITH THE ENVIRONMENT CANADA COMPLIANCE PROMOTION "PRODUCT TRANSFER AREA WORKSHOP - INFO SHEET AND SAMPLE WRITE-UPS FOR PRODUCT TRANSFER AREAS", DATED FEBRUARY 3, 2012, AND TANK TIP 13.

THE SIGNIFICANT ENVIRONMENTAL RISK ASSOCIATED WITH THIS STORAGE SYSTEM IS THE POSITION OF THE STORAGE TANK IN PARKLAND. THE MOST LIKELY SPILL SCENARIO WOULD BE AN OVERFILL OCCURRENCE DURING A FUEL DELIVERY. BASED ON A TYPICAL TRUCK FILLING RATE OF 280 L/MIN AND A CONSERVATIVE REACTION TIME TO STOP THE FLOW OF 2 MINUTES, THE ANTICIPATED SPILL SCENARIO (CALCULATED SPILL VOLUME) FOR THIS DESIGN IS 560L.

THE SYSTEM IS DESIGNED WITH THE FOLLOWING MITIGATION COMPONENTS:

- AUDIBLE AND VISUAL OVERFILL ALARM SET AT 90% CAPACITY TANK
- POSITIVE CLOSING OVERFILL PREVENTION DEVICE SET AT 95% TANK CAPACITY
- ENVIRONMENTAL CONCRETE TANK PAD ABOVE GRADE PRODUCT TRANSFER AREA CONTAINMENT BOX (SIZED TO CONTAIN 680L)
- ABOVE GRADE SPILL CONTAINER AT FILL PIPE CONNECTION, INSIDE PRODUCT TRANSFER AREA CONTAINMENT BOX
- PRODUCT TRANSFER AREA INSTRUCTIONAL SIGNAGE WILL BE POSTED AT FILL PIPE AREA
- EMERGENCY CONTACT SIGNAGE WILL BE POSTED
- A FULLY STOCKED SPILL KIT WILL BE LOCATED AT THE TANK AREA
- AN EMERGENCY RESPONSE PLAN, SPECIFIC TO THE STORAGE SYSTEM, WILL BE POSTED AND STAFF TRAINED



| | | |
|-----------|-----------------------|------------|
| 3 | ISSUED FOR TENDER | 09/10/2019 |
| 2 | ISSUED FOR 99% REVIEW | 03/02/2018 |
| 1 | ISSUED FOR 66% REVIEW | 12/19/2017 |
| revisions | | date |

project projet
FUEL OIL STORAGE TANK SYSTEM REPLACEMENT DISCOVERY CENTRE WOODY POINT, GROS MORNE NATIONAL PARK, NL

drawing dessin

NEW ABOVEGROUND PRODUCT TRANSFER AREA CONTAINMENT BOX DETAIL

| | |
|-----------------------|----------|
| designed E. FINNAMORE | conçu |
| date JANUARY, 2018 | |
| drawn M. CLARK | dessiné |
| date JANUARY, 2018 | |
| approved T. JAGIELSKI | approuvé |
| date AUGUST, 2019 | |

Tender J. WHITE
PWGSC Project Manager / Administrateur de projets TPSGC

project number no. du projet
R.105175.007

drawing no. no. du dessin

M3