

Part 1 ADDENDUM NO.1

1.1 General

- .1 This Addendum is issued prior to tender closing and shall become an integral part of the Tender, Specifications, Drawings and Contract Documents for this project.
- .2 In the event of conflicts between the various Contract Documents, the order of precedence shall be as stipulated in the General Conditions of the Contract, except that this Addendum shall take overall precedence.

Part 2 Drawings

2.1 Replace attached drawings

- .1 V141 – Residence M3.0 SCHEMATIC
- .2 V146 – Fitness Building M3.0 SCHEMATIC
- .3 V158 – Garage M3.0 SCHEMATIC
- .4 V159 – Residence M3.0 SCHEMATIC

Part 3 Specifications

3.1 Replace following specification sections with attached versions

- .1 00 01 10 Table of Contents
- .2 01 78 00 Closeout Submittals
- .3 02 41 99 Demolition for Minor Works
- .4 10 14 00 Signage
- .5 23 11 13 Fuel Oil Piping

3.2 Insert new specification sections

- .1 01 35 43 Environmental Procedures

END OF SECTION

TABLE OF CONTENTS

Pages

Division 00 - Procurement and Contracting Requirements

Section 00 01 10 - Table of Contents 3

Division 01 - General Requirements

Section 01 11 00 - Summary of Work 3
Section 01 14 00 - Work Restrictions..... 2
Section 01 31 19 - Project Meetings 3
Section 01 32 16.07 - Construction Progress Schedule - Bar (GANTT) Chart 3
Section 01 33 00 - Submittal Procedures..... 4
Section 01 35 29.06 - Health and Safety Requirements 3
Section 01 41 00 - Regulatory Requirements 1
Section 01 35 43 – Environmental Procedures..... 3
Section 01 45 00 - Quality Control 3
Section 01 56 00 - Temporary Barriers and Enclosures 2
Section 01 61 00 - Common Product Requirements 5
Section 01 73 00 - Execution..... 2
Section 01 74 11 - Cleaning..... 2
Section 01 77 00 - Closeout Procedures 2
Section 01 78 00 - Closeout Submittals 10
Section 01 78 40 - Maintenance Requirements..... 3
Section 01 79 00 - Demonstration and Training 2

Division 02 - Existing Conditions

Section 02 41 99 - Demolition for Minor Works 4

Division 10 - Specialties

Section 10 14 00 - Signage 5

Division 21 - MECHANICAL

Section 21 05 01 - Common Work Results For Mechanical 4

Division 23 - Heating, Ventilating and Air Conditioning (HVAC)

Section 23 05 53 – Mechanical Identification..... 3
Section 23 11 13 – Fuel Oil Piping..... 11

Appendix A – Warming Pipe Details 2

Appendix B – Igloolik Photos 7

Drawing List:

Igloolik

V141 – Residence

- M1.0 DEMOLITION PLAN
- M1.1 CONSTRUCTION PLAN
- M2.0 TANK ELEVATIONS
- M2.1 2" FUEL LINE SUPPORT DETAILS
- M3.0 SCHEMATIC

V146 – Fitness Building

- M1.0 DEMOLITION AND CONSTRUCTION PLAN
- M2.0 TANK ELEVATIONS
- M2.1 2" FUEL LINE SUPPORT DETAIL
- M3.0 SCHEMATIC

V158 – Garage

- M1.0 DEMOLITION AND CONSTRUCTION PLAN
- M2.0 TANK ELEVATIONS
- M2.1 2" FUEL LINE SUPPORT DETAIL
- M3.0 SCHEMATIC

V159 – Residence

- M1.0 DEMOLITION AND CONSTRUCTION PLAN
- M2.0 TANK ELEVATIONS
- M2.1 2" FUEL LINE SUPPORT DETAIL
- M3.0 SCHEMATIC

STRUCTURAL DRAWING LIST

- S1 STRUCTURAL PROJECT NOTES
- S2 TYP TANK SLAB, BOLLARD AND BASE PLATE DETAILS AND ISOMETRIC VIEW OF METAL STAND
- S3 CONNECTION #1 DETAILS
- S4 CONNECTION #2 DETAILS
- S5 TANK #1 - PLAN VIEW OF TANK ON SLAB
- S6 TANK #1 - PLAN VIEW OF TANK ON SLAB
- S7 TANK #2 - PLAN VIEW OF TANK ON LOW METAL STAND
- S8 TANK #2 - ELEVATIONS OF LOW METAL STAND
- S9 TANK #2 - ELEVATIONS OF LOW METAL STAND
- S10 TANK #3 - PLAN VIEW OF TANK ON HIGH METAL STAND
- S11 TANK #3 - ELEVATIONS OF HIGH METAL STAND
- S12 TANK #3 - ELEVATIONS OF HIGH METAL STAND

S13 TANK #4 - PLAN VIEW OF TANK ON LOW DOUBLE METAL STAND
S14 TANK #4 - ELEVATIONS OF LOW DOUBLE METAL STAND
S15 TANK #4 - ELEVATIONS OF LOW DOUBLE METAL STAND
S16 TANK #5 - PLAN VIEW OF TANK ON HIGH DOUBLE METAL STAND
S17 TANK #5 - ELEVATIONS OF HIGH DOUBLE METAL STAND
S18 TANK #5 - ELEVATIONS OF HIGH DOUBLE METAL STAND

END OF TABLE

Part 1 General

1.1 RELATED REQUIREMENTS

- .1 Section 02 41 99 - Demolition for Minor Works.

1.2 REFERENCES

- .1 Definitions:
 - .1 Environmental Pollution and Damage: presence of chemical, physical, biological elements or agents which adversely affect human health and welfare; unfavourably alter ecological balances of importance to human life; affect other species of importance to humans; or degrade environment aesthetically, culturally and/or historically.
 - .2 Environmental Protection: prevention/control of pollution and habitat or environment disruption during construction.
- .2 References:
 - .1 NU/NWT Spill Report.

1.3 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Submit in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Before commencing construction activities or delivery of materials to site, submit Environmental Protection Plan for review and approval by Project Manager.
- .3 Environmental Protection Plan must include overview of known or potential environmental issues to be addressed during construction.
- .4 Address topics at level of detail commensurate with environmental issue and required construction tasks.
- .5 Include in Environmental Protection Plan:
 - .1 Name of person responsible for ensuring adherence to Environmental Protection Plan.
 - .2 Name and qualifications of person responsible for manifesting hazardous waste to be removed from site.
 - .3 Spill Control Plan to include procedures, instructions, and reports to be used in event of unforeseen spill of regulated substance.
 - .4 Non-Hazardous solid waste disposal plan identifying methods and locations for solid waste disposal including clearing debris.
 - .5 Used Oil Disposal Plan identifying methods and locations for disposal of used oil and sludge, oil-contaminated water, and used oil tanks and piping. The plan should detail compliance with Federal, Territorial, and Municipal laws and regulations. Refer to Section 02 41 99 - Demolition for Minor Works for details.
 - .6 Waste Water Management Plan identifying methods and procedures for discharge of waste waters which are directly derived from construction activities,

such as concrete curing water, clean-up water, dewatering of ground water, disinfection water, hydrostatic test water, and water used in flushing of lines.

1.4 FIRES

- .1 Fires and burning of rubbish on site is not permitted.
- .2 Where fires or burning is permitted, prevent staining or smoke damage to structures, materials or vegetation which is to be preserved.
 - .1 Restore, clean and return to new condition stained or damaged work.
- .3 Provide supervision, attendance and fire protection measures as directed.

1.5 SITE CLEARING AND PLANT PROTECTION

- .1 Protect trees and plants on site and adjacent properties as indicated.
- .2 Protect trees and shrubs adjacent to construction work, storage areas and trucking lanes, and encase with protective wood framework from grade level to height of 2 m minimum.
- .3 Protect roots of designated trees to dripline during excavation and site grading to prevent disturbance or damage.
 - .1 Avoid unnecessary traffic, dumping and storage of materials over root zones.
- .4 Minimize stripping of topsoil and vegetation.
- .5 Restrict tree removal to areas designated by Consultant.

1.6 NOTIFICATION

- .1 Project Manager will notify Contractor in writing of observed noncompliance with Federal, Provincial or Municipal environmental laws or regulations, permits, and other elements of Contractor's Environmental Protection plan.
- .2 Contractor: after receipt of such notice, inform Project Manager of proposed corrective action and take such action for approval by Project Manager.
 - .1 Take action only after receipt of written approval by Project Manager.
- .3 Project Manager will issue stop order of work until satisfactory corrective action has been taken.
- .4 No time extensions granted or equitable adjustments allowed to Contractor for such suspensions.

Part 2 Products

2.1 NOT USED

- .1 Not Used.

Part 3 Execution

3.1 CLEANING

- .1 Progress Cleaning: clean in accordance with Section 01 74 11 - Cleaning.
 - .1 Leave Work area clean at end of each day.
- .2 Ensure public waterways, storm and sanitary sewers remain free of waste and volatile materials disposal.
- .3 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 11 - Cleaning.
- .4 Waste Management: separate waste materials for re-use/recycling in accordance with Section 02 41 99 - Demolition for Minor Works.
 - .1 Remove recycling containers and bins from site and dispose of materials at appropriate facility.

END OF SECTION

TANK INSTALLATION SUMMARY

Tank Location:

Community: _____

Building Address: _____

Date of Installation: _____

Temperature and Weather of Installation: _____

Name of Installer: _____

Tank Information:

Type of Tank: _____

Tank Clearances:

Front:_____ Right Side:_____ Left Side:_____ Rear :_____

Tank Serial Number: _____

Stand Type: _____

Tank Warrantee Start Date: _____

Piping and Accessories Installed:

		Photo Provided
Shut Off Valve at Tank:	_____	_____
Drip Leg and Valve	_____	_____
Flex Connection	_____	_____
Vent Cover	_____	_____
Interstitial Vent Cover	_____	_____
Vent whistle	_____	_____
Fill Cover	_____	_____
Gauge and Protector	_____	_____
Exterior Caulking Installed	_____	_____
Two layers pipe tape at wall entry	_____	_____
Touch Up Paint for all Fittings	_____	_____
Minimum 24" Clearance to tank	_____	_____
Vent Clearance to Window/openings	_____	_____
Fill Clearance to Windows/openings	_____	_____

Interior Piping Installed

		Photo Provided
Interior Shut-off Valves	_____	_____
Warming Pipe	_____	_____
De-aerator (tiger loop)	_____	_____
Filter	_____	_____
Fusible Head Valve:	_____	_____
Interior Piping:	_____	

Type: _____ Length: _____ Photo Provided: _____

Photos

	Photo Provided
Complete elevation with tank	_____
Close up of tank:	
Front:	_____
Right side	_____
Left Side	_____
Rear:	_____
Interior Piping Changes:	_____
New fittings	_____
New Spill Kit	_____
Supplied Spill Report Document	_____

Submitted By: _____ Date: _____



Canada

NT-NU SPILL REPORT

OIL, GASOLINE, CHEMICALS AND OTHER HAZARDOUS MATERIALS

NT-NU 24-HOUR SPILL REPORT LINE

TEL: (867) 920-8130

FAX: (867) 873-6924

EMAIL: spills@gov.nt.ca

REPORT LINE USE ONLY

A	REPORT DATE: MONTH – DAY – YEAR		REPORT TIME		<input type="checkbox"/> ORIGINAL SPILL REPORT, OR <input type="checkbox"/> UPDATE # _____ TO THE ORIGINAL SPILL REPORT	REPORT NUMBER _____
	B	OCCURRENCE DATE: MONTH – DAY – YEAR		OCCURRENCE TIME		
C	LAND USE PERMIT NUMBER (IF APPLICABLE)			WATER LICENCE NUMBER (IF APPLICABLE)		
D	GEOGRAPHIC PLACE NAME OR DISTANCE AND DIRECTION FROM NAMED LOCATION				REGION <input type="checkbox"/> NWT <input type="checkbox"/> NUNAVUT <input type="checkbox"/> ADJACENT JURISDICTION OR OCEAN	
E	LATITUDE			LONGITUDE		
	DEGREES	MINUTES	SECONDS	DEGREES	MINUTES	SECONDS
F	RESPONSIBLE PARTY OR VESSEL NAME		RESPONSIBLE PARTY ADDRESS OR OFFICE LOCATION			
G	ANY CONTRACTOR INVOLVED		CONTRACTOR ADDRESS OR OFFICE LOCATION			
H	PRODUCT SPILLED		QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES	U.N. NUMBER		
	SECOND PRODUCT SPILLED (IF APPLICABLE)		QUANTITY IN LITRES, KILOGRAMS OR CUBIC METRES	U.N. NUMBER		
I	SPILL SOURCE		SPILL CAUSE	AREA OF CONTAMINATION IN SQUARE METRES		
J	FACTORS AFFECTING SPILL OR RECOVERY		DESCRIBE ANY ASSISTANCE REQUIRED	HAZARDS TO PERSONS, PROPERTY OR ENVIRONMENT		
K	ADDITIONAL INFORMATION, COMMENTS, ACTIONS PROPOSED OR TAKEN TO CONTAIN, RECOVER OR DISPOSE OF SPILLED PRODUCT AND CONTAMINATED MATERIALS					
L	REPORTED TO SPILL LINE BY	POSITION	EMPLOYER	LOCATION CALLING FROM	TELEPHONE	
M	ANY ALTERNATE CONTACT	POSITION	EMPLOYER	ALTERNATE CONTACT LOCATION	ALTERNATE TELEPHONE	
REPORT LINE USE ONLY						
N	RECEIVED AT SPILL LINE BY	POSITION	EMPLOYER	LOCATION CALLED	REPORT LINE NUMBER	
		STATION OPERATOR		YELLOWKNIFE, NT	(867) 920-8130	
LEAD AGENCY <input type="checkbox"/> EC <input type="checkbox"/> CCG <input type="checkbox"/> GNWT <input type="checkbox"/> GN <input type="checkbox"/> ILA <input type="checkbox"/> INAC <input type="checkbox"/> NEB <input type="checkbox"/> TC			SIGNIFICANCE <input type="checkbox"/> MINOR <input type="checkbox"/> MAJOR <input type="checkbox"/> UNKNOWN		FILE STATUS <input type="checkbox"/> OPEN <input type="checkbox"/> CLOSED	
AGENCY		CONTACT NAME	CONTACT TIME	REMARKS		
LEAD AGENCY						
FIRST SUPPORT AGENCY						
SECOND SUPPORT AGENCY						
THIRD SUPPORT AGENCY						



EMERGENCY SPILL RESPONSE PROCEDURES

Northwest Territories & Nunavut Spills Hotline 867-920-8130

Spill Kit Contents <small>*contents of spill kit may vary depending on manufacturer</small>	Description
Gloves	Use to protect skin from hazardous materials associated with spill. Must be worn at all times.
Goggles	Use to protect your eyes from accidental fuel spray or splashes. Must be worn at all times.
Containment Booms/Socks	Use the booms and socks to create a dyke to contain or divert the flow of fuel. They resemble thick, long stuffed socks. The boom is thicker and longer than the sock.
Sorbent Pads	Use to soak up spilled fuel. They can be reused by wringing them out, while wearing gloves, into an appropriate container.
Disposal Bags	Use the extra thick polyethylene bags to collect anything that is soaked with fuel. Disposal of these bags must be done according to the local regulations.
Drain Stopper	Use this to cover any nearby manhole, sewer, or any other drainage hole to prevent spilled fuel from entering underground utilities.
Epoxy Putty	Use this to temporarily patch minor holes in tanks and piping. Containment should be established around area in case the putty patch should fail.
Granular Sorbent	Use this for additional absorbing material to contain spread of fuel spill.
Caution Tape	Use to sign and mark the area of the spill to warn people of the potential danger. Temporary signs can be made on site with information specific to the spill or leak.
Salvage Drum	Contains all spill kit contents and can be used to collect and store any fuel soaked materials until they can be disposed of according to local regulations.

1. ENSURE YOUR SAFETY

- Survey the scene. If there is an immediate and significant danger, evacuate the spill area and call your local fire department and the Northwest Territories Spills Hotline at **867-920-8130**. If safe to enter the spill area, follow the instructions below.

2. STOP THE FLOW OF MATERIAL

- Approach the spill from upwind, and stop all fueling operations if applicable.
- Shut off any open valves, upright any container found to be leaking, and plug leak by temporarily patching small holes with the spill kit's epoxy putty.

3. SECURE THE AREA

- Identify the hazards – look for container labels, shipping documents, or material safety data sheets (MSDS).
- Eliminate all ignition sources (vehicle engines, cell phones, electrical systems, etc.) in the immediate area.
- Clear area of all non-essential personnel, isolate spill or leak area for at least 50 meters in all directions.
- Keep out of low areas where gas may collect (sewers, basements), and ventilate closed areas.

4. CONTAIN THE SPILL

- **Use the Spill Kit to Contain the Spill**
 - **Put on PPE:** nitrile gloves and goggles
 - **Envelop:** contain the spill around its perimeter with socks and boom
 - Where joints occur, overlap ends by several inches
 - The spill will flow with gravity, so if flowing into a low lying area, contain the spill at that leading edge
 - **Divert:** Use socks, booms or the pads and drain stopper to divert the spill away from drains, sewers, culverts, waterways and soft un-paved ground.
 - **Absorb:** Pads and granular sorbent should be distributed over the entire spill area, working from the perimeter of the spill circling to the center. This reduces the chance of splash and the spreading of the spill.
 - **Dispose:** If the spill has spread to minor areas of soil or snow, shovel and dispose in order to prevent seepage into the ground. Place waste absorbents, soil or snow into clear disposal bags, place in suitable labelled container and contact the appropriate Asset Manager or Environmental Manager for the appropriate hazardous waste disposal options.

5. NOTIFY AND REPORT

- Spills of fuel or other controlled products/dangerous goods must be reported to:
- **Environment Canada/Govt. of Nunavut Spills Hotline: 867-920-8130**
- Environmental Manager, V Division 204-984-1013, EnvironmentNWR@rcmp-grc.gc.ca
- Asset Management, V Division 204-984-6499, RCMP.VPropertyManagement-VGestionImmobiliere.GRC@rcmp-grc.gc.ca
- Fill out internal reporting forms: "Contaminated Site & Spill Report" Form NWR5400; and NWT-NU Spill Report

Components of kits should be replaced immediately after use. Contact the Environmental Manager for suggested suppliers, if necessary.



Part 1 General

1.1 REFERENCES

- .1 Canadian Standards Association (CSA International)
 - .1 CSA S350-M1980(R1998), Code of Practice for Safety in Demolition of Structures.

1.2 SUBMITTALS

- .1 Submit shop drawings in accordance with Sections 01 33 00 - Submittal Procedures 01 00 10 - General Instructions.

1.3 SITE CONDITIONS

- .1 Should material resembling spray or trowel-applied asbestos or other designated substance listed as hazardous be encountered, stop work, take preventative measures, and notify Consultant immediately.
 - .1 Do not proceed until written instructions have been received from Consultant.

Part 2 Products

2.1 NOT USED

- .1 Not used.

Part 3 Execution

3.1 PREPARATION

- .1 Inspect site with Consultant and verify extent and location of items designated for removal, disposal, alternative disposal, recycling, salvage and items to remain.
- .2 Locate and protect utilities. Preserve active utilities traversing site in operating condition.
- .3 Notify and obtain approval of utility companies before starting demolition.

3.2 PROTECTION

- .1 Prevent movement, settlement, or damage to adjacent structures, utilities, and landscaping features and parts of building to remain in place. Provide bracing and shoring required.
- .2 Keep noise, dust, and inconvenience to occupants to minimum.
- .3 Protect building systems, services and equipment.

- .4 Provide temporary dust screens, covers, railings, supports and other protection as required.

3.3 SALVAGE

- .1 Refer to demolition drawings and specifications for items to be salvaged for reuse.
- .2 Items to be stored in weather tight enclosure to ensure that no damaged is caused prior to re-installation

3.4 SITE REMOVALS

- .1 Remove items as indicated.

3.5 DEMOLITION

- .1 Remove parts of existing building to permit new construction.
- .2 Trim edges of partially demolished building elements to tolerances as defined by Consultant to suit future use.

3.6 DISPOSAL

- .1 Dispose of removed materials, except where specified otherwise, in accordance with authority having jurisdiction.
- .2 Used oil, oil tanks, and piping.
 - .1 Remove oil, sludge, and contaminated water from tanks and piping.
 - .2 Remove vapour from tanks.
 - .3 Cut into the side of the oil tank to prevent its re-use.
 - .4 Dispose of oil/sludge, tanks, and piping as per local authority and provide documentation to that effect.
 - .5 Provide documentation including names of personnel performing removal and of personnel certifying that the above steps have been performed.

END OF SECTION

Part 1 General

1.1 REFERENCES

- .1 Aluminum Association, Inc. (AAI)
 - .1 AAI DAF45-03, Designation System for Aluminum Finishes.
- .2 ASTM International Inc.
 - .1 ASTM A653/A653M-07, Standard Specification for Steel Sheet, Zinc-Coated, (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
 - .2 ASTM B32-04, Standard Specification for Solder Metal.
 - .3 ASTM B456-03, Standard Specification for Electrodeposited Coatings of Copper Plus Nickel Plus Chromium and Nickel Plus Chromium.
- .3 Canadian General Standards Board (CGSB)
 - .1 CAN/CGSB-1.81-M90, Air Drying and Baking Alkyd Primer for Vehicles and Equipment.
 - .2 CAN/CGSB-1.88-92, Gloss Alkyd Enamel, Air Drying and Baking.
 - .3 CGSB 31-GP-107Ma-90, Non-Inhibited Phosphoric Acid Base Metal Conditioner and Rust Remover.
 - .4 CGSB 41-GP-6M-1983, Sheets, Thermosetting Polyester Plastics, Glass Fibre Reinforced. Reaffirmation of September 1976.
- .4 Canadian Standards Association (CSA International)
 - .1 CAN/CSA-G164-M92(R2003), Hot Dip Galvanizing of Irregularly Shaped Articles.
 - .2 CSA W47.2-M1987(R2008), Certification of Companies for Fusion Welding of Aluminum.
 - .3 CSA W59-03, Welded Steel Construction (Metal Arc Welding).
 - .4 CSA W59.2-M1991(R2003), Welded Aluminum Construction.
- .5 Canadian Sheet Steel Building Institute (CSSBI)
 - .1 CSSBI SSF 6-1995, Sheet Steel Facts #6, Metallic Coated Sheet Steel for Structural Building Products-July 1995.
- .6 Green Seal Environmental Standards
 - .1 Standard GS-11-2008, 2nd Edition, Paints and Coatings.
 - .2 Standard GS-36-00, Commercial Adhesives.
- .7 Health Canada/Workplace Hazardous Materials Information System (WHMIS)
 - .1 Material Safety Data Sheets (MSDS).
- .8 The Master Painters Institute (MPI)
 - .1 Architectural Painting Specification Manual - February 2004.
 - .1 MPI #76, Quick Dry Alkyd Metal Primer.

- .2 MPI #96, Quick Dry Enamel Gloss.

1.2 ADMINISTRATIVE REQUIREMENTS

- .1 Pre-Installation Meetings: convene pre-installation meeting one week prior to beginning work of this Section in accordance with Section 01 32 16.07 - Construction Progress Schedule - Bar (GANTT) Chart to:
 - .1 Verify project requirements.
 - .2 Review installation and substrate conditions.
 - .3 Co-ordination with other building subtrades.
 - .4 Review manufacturer's installation instructions and warranty requirements.

1.3 ACTION SUBMITTALS

- .1 Provide submittals in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Shop Drawings:
 - .1 Submit shop drawings and catalogue sheets.
 - .2 Indicate materials, thicknesses, sizes, finishes, colours, construction details, removable and interchangeable components, electrical components specifications and power loads, wiring terminal box locations, lamp centres and overlaps, access panels, mounting methods, schedule of signs.
 - .3 Submit drawn-to-scale details for individually fabricated or incised lettering indicating word and letter spacing.
- .3 Samples:
 - .1 Submit duplicate representative sample of each type sign, sign image and mounting method including, but not limited to: graphics, cast letters, sign box installation method, channel letters, and wall plates fixed mounting installation method.

1.4 INFORMATIONAL SUBMITTALS

- .1 Product Data:
 - .1 Submit manufacturer's printed product literature panel signage or components, specifications and datasheet and include product characteristics, performance criteria, physical size, finish and limitations.
- .2 Manufacturer's Instructions: submit manufacturer's installation instructions and special handling criteria, installation sequence, cleaning procedures.

1.5 CLOSEOUT SUBMITTALS

- .1 Provide operation and maintenance data for illuminated signs for incorporation into manual specified in Section 01 78 00 - Closeout Submittals.

1.6 QUALITY ASSURANCE

- .1 Welding Certification in accordance with CSA W47.2.

1.7 DELIVERY, STORAGE AND HANDLING

- .1 Deliver, store and handle materials in accordance with Section 01 61 00 - Common Product Requirements.

Part 2 Products

2.1 MATERIALS

- .1 Aluminum extrusions: to designation AA 6063-T5 AA 6006-T5.
- .2 Sheet aluminum: anodizing quality.
- .3 Prefinished sheet aluminum: plain utility sheet with manufacturer applied baked enamel finish.
- .4 Electrical components: CSA approved.
- .5 Welding materials: to CSA W59.
- .6 Solder: to ASTM B32, Type Sn50.
- .7 Self-stick foam tape: 1.6 mm thick, 352.4 kg/m³ density polyurethane open-cell foam tape for sign purposes, with synthetic self-stick adhesive on both sides.
 - .1 Width: to suit sign sizes.
- .8 Bituminous paint: to MPI EXT 5.4D.

2.2 TANK SIGNAGE

- .1 Screen print on steel or aluminum with reflective sheeting finish.
 - .1 WHMIS Label 1202 10 ¾" x 10 ¾"
 - .2 Spill Report sign 10" x 14"
 - .3 No Smoking Sign 10" x 14"
- .2 Supply Shop drawing for each sign for approval
- .3 Wording as per schedule. Location as per drawings.
- .4 U-Channel post: Hot dipped galvanized rolled high tensile steel, length to suit, pre-pierce with 10 mm holes at 25 mm orc.
- .5 Tamper-proof bolts and nuts: steel zinc plated bolts with cone shaped fluted aluminum nuts.

2.3 FABRICATION

- .1 Fabricate signs in accordance with details, specifications and shop drawings.
- .2 Build units square, true, accurate to size, free from visual or performance defects.
- .3 Fit and securely join sections to obtain tight, closed joints.
- .4 Allow for thermal movement without distortion of components.
- .5 Exposed fasteners permitted where indicated where approved by Consultant and to be inconspicuous and same color and finish as base material or as noted.

- .6 Polish exposed edges of metal to smooth, slightly convex profile.
- .7 Do steel welding to CSA W59 and aluminum welding to CSA W59.2.
 - .1 Finish exposed welds flush and smooth.
- .8 Apply bituminous paint to aluminum in contact with dissimilar metals, concrete or masonry.
- .9 Manufacturer's nameplates on sign surface permitted in non-visible locations in completed work.

Part 3 Execution

3.1 INSTALLATION

- .1 Manufacturer's Instructions: comply with manufacturer's written recommendations or specifications, including product technical bulletins, handling, storage and installation instructions, and data sheets.
- .2 Erect and secure signs plumb and level at elevations indicated.
- .3 Comply with sign manufacturer's installation instructions and approved shop drawings.
- .4 Mechanical attachment:
 - .1 To concrete or solid masonry: use lag screws and expansion bolts or screws and fibre plugs, as appropriate for stresses involved.
 - .2 To hollow masonry: use toggle bolts or equivalent.
 - .3 To steel: use bolts with nut and lock washers, self-tapping screws.
 - .1 Do steel welding to CSA W59 and aluminum welding to CSA W59.2.
 - .2 Finish exposed welds flush and smooth.
 - .4 To wood: use screws.
 - .5 Secure into framing members behind stud walls or above ceilings.
 - .6 Mechanical fasteners on exterior: non-staining, non-ferrous type.
 - .7 Fabricate special fasteners as required for installation conditions.
 - .8 Mechanical fasteners and methods of attachment subject to Consultant's approval.
 - .1 Obtain Consultant's approval before fixing to structural steel.
- .5 Adhesive attachment:
 - .1 Use self-stick adhesive foam tape to manufacturer's instructions to fix sign and prevent "rocking".
 - .2 Keep tape maximum 1.6 mm from edges.

3.2 FIELD QUALITY CONTROL

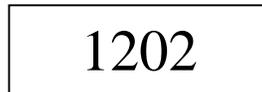
- .1 Manufacturer's Field Services:
 - .1 Provide manufacturer's field services consisting of product use recommendations and periodic site visits for inspection of product installation in accordance with manufacturer's instructions.

3.3 CLEANING

- .1 Proceed in accordance with Section 01 74 11 - Cleaning.
 - .1 On completion and verification of performance of installation, remove surplus materials, excess materials, rubbish, tools and equipment.
 - .2 Leave signs clean.
 - .3 Remove debris from interior of sign boxes.
 - .4 Touch up damaged finishes.

Part 4 SCHEDULE

- .1 WHMIS Label



- .2 Spill Report Sign



- .3 No Smoking Sign



END OF SECTION

Part 1 General

1.1 SECTION INCLUDES

- .1 Pipe and pipe fittings.
- .2 Valves.
- .3 Fuel oil storage tanks.
- .4 Accessories.

1.2 RELATED SECTIONS

- .1 Section 01 10 13 - Summary of Work
- .2 Section 01 20 13 - Price and Payment Procedures
- .3 Section 01 33 00 - Administrative Requirements.
- .4 Section 01 61 00 - Common Product Requirements.
- .5 Section 01 78 10 - Execution Requirements.
- .6 Section 08 31 13 - Access Doors And Frames.
- .7 Section 09 91 10 - Painting.
- .8 Section 23 05 16 - Piping Expansion Compensation.
- .9 Section 23 05 29 - Supports And Anchors.
- .10 Section 23 05 53 - Mechanical Identification.
- .11 Section 26 05 80 - Equipment Wiring: Electrical characteristics and wiring connections.
- .12 Section 31 23 18 - Trenching.
- .13 Section 31 23 23 - Backfilling.

1.3 REFERENCES

- .1 ANSI B31.1 - Power Piping.
- .2 ANSI B31.4 - Liquid Petroleum Transportation Piping Systems.
- .3 ANSI B31.9 - Building Service Piping.
- .4 API Spec 12P - Fibreglass Reinforced Plastic Tanks.

- .5 API 650 - Welded Steel Tanks for Oil Storage.
- .6 API 2000 - Venting Atmospheric and Low Pressure Storage Tanks.
- .7 ASME - Boiler and Pressure Vessel Code.
- .8 ASME SEC IX - Welding and Brazing Qualifications.
- .9 ASME B16.3 - Malleable Iron Threaded Fittings.
- .10 ASME B16.18 - Cast Copper Alloy Solder-Joint Pressure Fittings.
- .11 ASME B16.22 - Wrought Copper and Copper Alloy Solder-Joint Pressure Fittings
- .12 ASME B16.26 - Cast Copper Alloy Fittings for Flared Copper Tubes.
- .13 ASME B36.10 - Welded and Seamless Wrought Steel Pipe.
- .14 ASTM A53/A53M - Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless.
- .15 ASTM A234/A234M - Piping Fittings of Wrought-Carbon Steel and Alloy Steel for Moderate and High Temperature Service.
- .16 ASTM B88 - Seamless Copper Water Tube.
- .17 AWS A5.8 - Filler Metals for Brazing and Braze Welding.
- .18 AWWA C105 - Polyethylene Encasement for Ductile Iron Pipe Systems.
- .19 CSA B139.2-15 Installation code for oil-burning equipment for residential and small commercial buildings
- .20 CAN/ULC –S670 Standard for Aboveground non-metallic tanks for fuel oil and other combustible liquids
- .21 CAN/ULC –S670, 677, 652, 601, 602, 653, or 655
- .22 Factory Mutual Class 7440 – fusible links
- .23 NFPA 30 - Flammable and Combustible Liquids Code.
- .24 NFPA 31 - Installation of Oil-Burning Equipment.
- .25 ULC/ORD –C842 Guide for the Investigation of Valves for Flammable and Combustible Liquids.
- .26 ULC/ORD –C536 Flexible Metallic Hose
- .27 UL 80 - Steel Tanks for Oil-Burner Fuel.
- .28 UL 142 - Steel Aboveground Tanks for Flammable and Combustible Liquids.

- .29 UL 1316 - Glass Fibre Reinforced Plastic Underground Storage Tanks for Petroleum Products, Alcohols, and Alcohol Gasline Mixtures.

1.4 SUBMITTALS FOR REVIEW

- .1 Section 01 33 00: Procedures for submittals.
- .2 Product Data: Provide data on pipe materials, pipe fittings, valves and accessories. Provide manufacturers catalogue information. Indicate valve data and ratings.
- .3 Shop Drawings: Indicate tanks, system layout, pipe sizes, location, and elevations. For fuel oil tanks, indicate dimensions and accessories including manholes and hold down straps.

1.5 SUBMITTALS FOR INFORMATION

- .1 Section 01 33 00: Procedures for submittals.
- .2 Certificates: Certify that tanks/pumps/valves meet or exceed specified requirements.

1.6 SUBMITTALS AT PROJECT CLOSEOUT

- .1 Section 01 78 10: Closeout submittals.
- .2 Project Record Documents: Record actual locations of piping system, storage tanks, and system components.
- .3 Maintenance Data: Include installation instructions, spare parts lists.
- .4 Warranty: Submit manufacturer warranty and ensure forms have been completed in Owner's name and registered with manufacturer.

1.7 QUALITY ASSURANCE

- .1 Welding Materials and Procedures: Conform to ASME Code.
- .2 Welders Certification: To ASME SEC IX and CSA.
- .3 Manufacturer Qualifications: Company specializing in manufacturing the Products specified in this section with minimum three years documented experience.
- .4 Installer Qualifications: Company specializing in performing the work of this section with minimum five years documented experience.
- .5 Valves: Manufacturer's name and pressure rating marked on valve body.
- .6 Piping, flanges, unions, couplings: Manufacturer's name and pressure rating marked on body.

1.8 REGULATORY REQUIREMENTS

- .1 Conform to CSA B139.1-15 and CSA B139.2-15 for installation of fuel oil system.

- .2 Provide certificate of compliance from authority having jurisdiction indicating approval of installation of fuel oil system.
- .3 Products Requiring Electrical Connection: Listed and classified by CSA as suitable for the purpose specified and indicated.

1.9 DELIVERY, STORAGE, AND PROTECTION

- .1 Section 01 61 00: Transport, handle, store, and protect products.
- .2 Protect piping and fittings from soil and debris with temporary end caps and closures. Maintain in place until installation.

1.10 WARRANTY

- .1 Section 01 78 10.
- .2 Provide thirty-year manufacturer warranty for oil tank against defects and corrosion.

1.11 EXTRA MATERIALS

- .1 Section 01 78 10.
- .2 Provide two repacking kits for each size valve.
- .3 Provide two oil filters for each boiler or furnace.
- .4 Provide dipstick and water finding paste.
- .5 Provide spill kit for each tank.

Part 2 Products

2.1 ABOVE GROUND PIPING

- .1 Copper Tubing: ASTM B88M, Type K,L,M, hard drawn.
 - .1 Fittings: ASME B16.18, cast copper alloy or ASTM B16.22 wrought copper and bronze.
 - .2 Joints: AWS A5.8 Classification BCuP-3 or BCuP-4 silver braze.
- .2 Copper Tubing: ASTM B88M, Type K,L, annealed.
 - .1 Fittings: ASME B16.26, cast bronze.
 - .2 Joints: Flared.
- .3 Steel Pipe: ASTM A53 or ASME B36.10, Schedule 40 black.
 - .1 Fittings: ASTM B16.3, malleable iron, or ASTM A234/A234M, wrought carbon steel and alloy steel welding type.
 - .2 Joints: NFPA 30, threaded or welded to ASME 16.3 or ASME 16.39.

- .4 No compression fittings. No union requiring packing or gaskets. No right and left couplings. No solder or braze materials with a MP<538C.
- .5 Pipe jointing compound – CAN/ULC-S642. Suitable for fuel oil.

2.2 PIPE HANGERS AND SUPPORTS

- .1 Hangers for Pipe Sizes 15 to 40 mm, Carbon steel, adjustable swivel, split ring.
- .2 Hangers for Pipe Sizes 50 mm and Over: Carbon steel, adjustable, clevis.
- .3 Multiple or Trapeze Hangers: Steel channels with welded spacers and hanger rods.
- .4 Wall Support for Pipe Sizes to 80 mm: Cast iron hook.
- .5 Vertical Support: Steel riser clamp.
- .6 Floor Support: Cast iron adjustable pipe saddle, lock nut, nipple, floor flange, and concrete pier or steel support.
- .7 Copper Pipe Support: Carbon steel ring, adjustable, copper plated.

2.3 FLANGES, UNIONS, AND COUPLINGS

- .1 Pipe Size 50 mm and Under:
 - .1 Ferrous pipe: 1034 kPa (150 psi) malleable iron threaded unions.
 - .2 Copper tube: 1034 kPa (150 psi) bronze unions with brazed joints. No solder or braze materials with a MP<538C.
- .2 Pipe jointing compound – CAN/ULC-S642. Suitable for fuel oil.

2.4 BALL VALVES (BV-1)

- .1 Manufacturer: Kitz 68A
- .2 Other acceptable manufacturers offering equivalent products:
 - .1 Morrison Bros.
 - .2 Toyo
 - .3 Substitutions: [Refer to Section 01 62 00.]
- .3 Class 600 WOG, bronze, full bore, forged brass ball, brass gland and PTFE Teflon seats, steel lever handle, solder or threaded ends.
- .4 Exterior valves suitable for cold temperatures to -40C (-40F).
- .5 Conforms to ULC/ORD-C482.

2.5 CHECK VALVES (CV-1)

- .1 Manufacturer: Beckett Model 12430, 12440

- .2 Other acceptable manufacturers offering equivalent products:
 - .1 Morrison Bros.
 - .2 Kitz Fig 22
 - .3 Substitutions: [Refer to Section 01 62 00.]
- .3 MSS SP-80, Class 125, bronze body and cap, bronze swing disc, threaded ends.

2.6 FLEXIBLE CONNECTORS (FC-1)

- .1 Manufacturer: OPW Model Stainless Steel Flex Connectors.
- .2 Other acceptable manufacturers offering equivalent products:
 - .1 Substitutions: [Refer to Section 01 62 00.]
- .3 Bronze inner hose and braided exterior sleeve, suitable for temp rating -40F to 105F. Max operating pressure 1375kPa (200 psi) CWP.
- .4 ULC/ORD C536 Flexible Metallic Hose.

2.7 DEAERATOR (DA-1)

- .1 Manufacturer: Westwood Products: Tigerloop Ultra with screw-on oil filter
- .2 Other acceptable manufacturers offering equivalent products:
 - .1 Substitutions: Not permitted.
- .3 Temp rating -7C to 40C (20F-105F). Max operating pressure 55 kPa (8psi). Max nozzle capacity 75.8 L/min (20GPH).

2.8 FUSIBLE LINKS (FL-1)

- .1 Manufacturer: Firomatic.
- .2 Other acceptable manufacturers offering equivalent products:
 - .1 Substitutions: Not permitted.
- .3 Max temp rating 74C (165F).
- .4 ULC 842 listed.

2.9 TANK WHISTLE (TW-1)

- .1 Manufacturer: Beckett.
- .2 Other acceptable manufacturers offering equivalent products:
 - .1 Substitutions: [Refer to Section 01 62 00.]
- .3 Lockable, with screen on vent cover.

2.10 SPILL KITS (SK-1)

- .1 Manufacturer: SPC Oil Only Spill Kits
- .2 Other acceptable manufacturers offering equivalent products:
 - .1 Enpac
 - .2 Substitutions: [Refer to Section 01 62 00.]
- .3 20Gal capacity.

2.11 VENT CAPS (VC-1)

- .1 Manufacturer: Beckett. Model: Zinc-plated mushroom vent cap.
- .2 Other acceptable manufacturers offering equivalent products:
 - .1 Substitutions: [Refer to Section 01 62 00.]
- .3 Zinc plated cast iron, with screen.

2.12 FILL CAP WITH SPILL CONTAINER (C-1)

- .1 Manufacturer: Morrison Bros Model 517 Series 3.5 Gallon AST Spill container
- .2 Other acceptable manufacturers offering equivalent products:
 - .1 Substitutions: [Refer to Section 01 62 00.]
- .3 3.5 Gal capacity, hinged lockable cover.
- .4 Meets CAN-ULC-S663-11.

2.13 LEVELOMETER (LI-1)

- .1 Manufacturer: K TECH LEVELOMETER Model Midget Model 277 Pneumatic Indicator
- .2 Other acceptable manufacturers offering equivalent products:
 - .1 King Tank Gauges.
 - .2 Rocket Wireless Gauge.
 - .3 Substitutions: [Refer to Section 01 62 00.]
- .3 ULC/ORD-C180-97 listed.

2.14 OIL FILTER

- .1 Manufacturer: Canadian General Filters
- .2 Other acceptable manufacturers offering equivalent products:
 - .1 Substitutions: [Refer to Section 01 62 00.]
- .3 Suitable for oil burner.

2.15 WARM-UP PIPE (WP-1,2)

- .1 Shop manufactured. See sketch SK-1 and SK-2 in Appendix A.
- .2 WP-1: Schedule 40 pipe, 250mm (10") dia., 600mm (24") long, 31L.
- .3 WP-2: Schedule 40 pipe, 100mm (4") dia., 600mm (24") long, 5L.
- .4 With 25mm (1") drain valve and air bleed valve. (BV-1)

2.16 ABOVEGROUND FUEL STORAGE TANKS (T-1)

- .1 Manufacturer: Vilco D252.
- .2 Other acceptable manufacturers offering equivalent products:
 - .1 Substitutions: Not permitted.
- .3 Tank: CAN/ ULC-S670, double wall, fibreglass, oval with integral molded support feet, tappings for accessories, threaded connections.
- .4 Capacity: 1136 L. (250 gallons).

2.17 INDOOR DOUBLE-WALL STORAGE TANKS (T-2)

- .1 Manufacturer: Steelcraft.
- .2 Other acceptable manufacturers offering equivalent products:
 - .1 DTE Industries
 - .2 Clemmersteel
 - .3 Roth
 - .4 Regal Tanks
 - .5 Substitutions: [Refer to Section 01 62 00.].
- .3 Tank: CAN/ ULC-S602, double wall steel construction, tappings for accessories, threaded connections. Vacuum monitored, or contained type designed to contain at least 100% of tank volume with monitoring (as per CSA B139.1.1-15 Section 6.2). Sizes as per drawings.

2.18 FUEL OIL PUMPS

- .1 Manufacturer: Viking Model FH-432X.
- .2 Other acceptable manufacturers offering equivalent products:
 - .1 Substitutions: Not permitted.
- .3 Casing: Bronze, rated for 860 kPa (125 psi) working pressure with integral pressure relief valve.
- .4 Impeller: Bronze gears, positive displacement.

- .5 Drive: Direct connected with flexible coupling.
- .6 Accessories: Adjustable pressure control valve, bleed valve, mechanical seal.
- .7 ULC listed for fuel oil.

Part 3 Execution

3.1 EXAMINATION

- .1 Section 01 10 13: Verification of existing conditions before starting work.
- .2 Verify that excavations are to required grade, dry, and not over-excavated.

3.2 PREPARATION

- .1 Ream pipe and tube ends. Remove burrs.
- .2 Remove scale and dirt, on inside and outside, before assembly.
- .3 Prepare piping connections to equipment with flanges or unions.

3.3 INSTALLATION

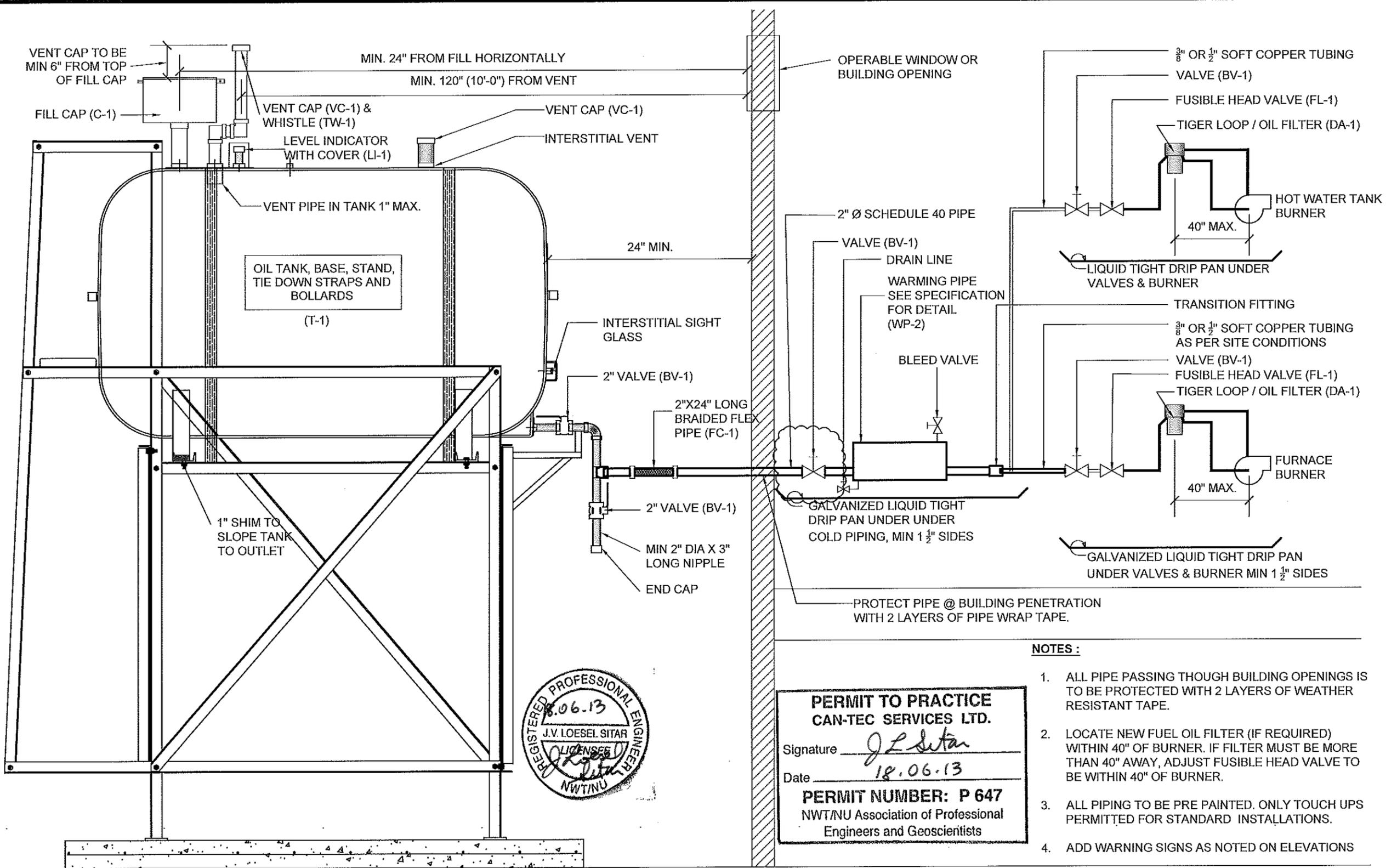
- .1 Install to manufacturer's instructions, stamped drawings, and CSA B139.2-15.
- .2 Provide non-conducting dielectric connections wherever jointing dissimilar metals.
- .3 Install piping using fittings manufactured to ANSI standards. Provide threaded fittings, except use welded fittings where piping is concealed.
- .4 Route piping in orderly manner and maintain gradient.
- .5 Install piping to conserve building space and not interfere with use of space.
- .6 Group piping whenever practical at common elevations.
- .7 Install piping to allow for expansion and contraction without stressing pipe, joints, or connected equipment.
- .8 Provide clearance for installation of insulation and access to valves and fittings.
- .9 Provide access where valves and fittings are not exposed. [Coordinate size and location of access doors with Section 08 31 13.]
- .10 Where pipe support members are welded to structural building framing, scrape, brush clean, weld, and apply one coat of zinc rich primer.
- .11 Where pipe travels through buildings walls, use pipe sleeves or wrap pipe with two layers or pipe wrap.

- .12 Prepare pipe, fittings, supports, and accessories not prefinished, ready for finish painting. Refer to Section 09 91 10.
- .13 Identify piping systems including underground piping. refer to Section 23 05 53.
- .14 Install valves with stems upright or horizontal, not inverted.
- .15 Protect piping systems from entry of foreign materials by temporary covers, completing sections of the work, and isolating parts of completed system.
- .16 Test system in accordance with CSA B139.2-15 Section 11.3 and authority having jurisdiction. Isolate tank from piping during tests. Clean strainers and filters after testing and provide new filter upon handover.

3.4 FUEL TANK INSTALLATION

- .1 Install tanks and associated piping to manufacturer's instructions, stamped drawings, and CSA B139.2-15.
- .2 Test tank as per manufacturer's instructions. Upon delivery, perform pneumatic testing as per manufacturer's instructions.
- .3 Mount aboveground tanks on foundation or stands as indicated on drawings.
- .4 Clean and flush day tank/warming tank prior to delivery to site. Seal until pipe connections are made.
- .5 Fill tanks at project turn-over with appropriate fuel. Do not transfer oil from old tank to new tank. At first fill, perform hydrostatic test of tank as per CSA B139.2-15 section 6.9.
- .6 Ensure level gauges have leak-proof and vapour-proof connections. Calibrate level gauges.

END OF SECTION



PERMIT TO PRACTICE
CAN-TEC SERVICES LTD.
 Signature J.V. Loesel Sitar
 Date 18.06.13
PERMIT NUMBER: P 647
 NWT/NU Association of Professional
 Engineers and Geoscientists

- NOTES :**
1. ALL PIPE PASSING THOUGH BUILDING OPENINGS IS TO BE PROTECTED WITH 2 LAYERS OF WEATHER RESISTANT TAPE.
 2. LOCATE NEW FUEL OIL FILTER (IF REQUIRED) WITHIN 40" OF BURNER. IF FILTER MUST BE MORE THAN 40" AWAY, ADJUST FUSIBLE HEAD VALVE TO BE WITHIN 40" OF BURNER.
 3. ALL PIPING TO BE PRE PAINTED. ONLY TOUCH UPS PERMITTED FOR STANDARD INSTALLATIONS.
 4. ADD WARNING SIGNS AS NOTED ON ELEVATIONS

01 SCHEMATIC - TANK, PIPING & ACCESSORIES : ON STAND
 M3.0 SCALE: NTS



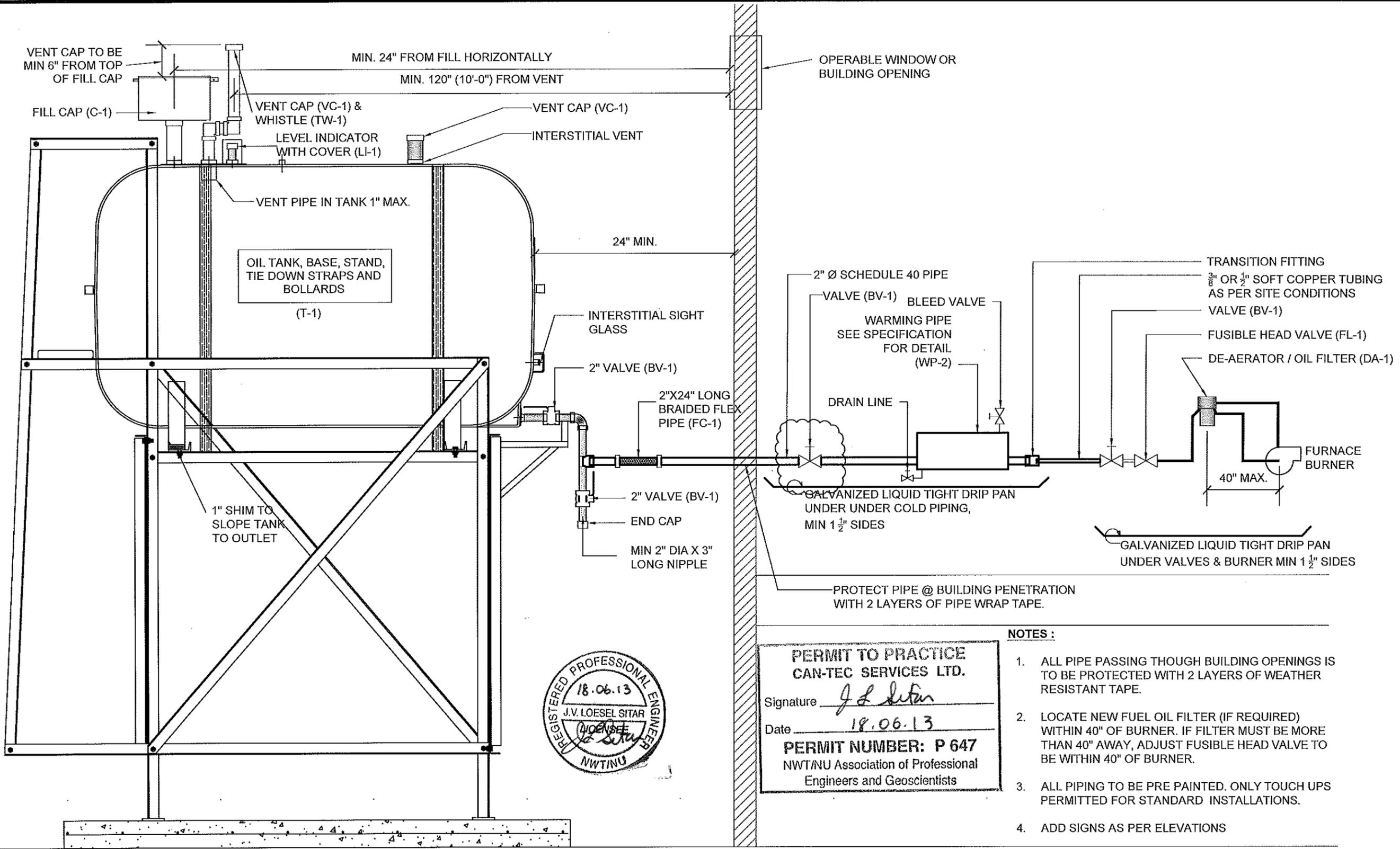
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 RCMP "V" DIVISION OIL TANK REPLACEMENT - IGLOOLIK
 V159 - RESIDENCE, IGLOOLIK
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 PROJECT NUMBER:
 16-028-14-30

REV. #	REVISION	DATE (YY MM DD)	REV. BY
01	ADDED BALL VALVE	18 06 13	JLS
00	ISSUED FOR TENDER	18 03 08	JLS

REV. #	REVISION	DATE (YY MM DD)	REV. BY

SCALE:
 AS NOTED
 DATE (YY MM DD):
 18 03 08

DRAWING NUMBER:
M3.0
 REVISION NUMBER:
 00



PERMIT TO PRACTICE
CAN-TEC SERVICES LTD.
 Signature *J. Loeisel*
 Date 18.06.13
PERMIT NUMBER: P 647
 NWT/NU Association of Professional
 Engineers and Geoscientists

- NOTES :**
1. ALL PIPE PASSING THOUGH BUILDING OPENINGS IS TO BE PROTECTED WITH 2 LAYERS OF WEATHER RESISTANT TAPE.
 2. LOCATE NEW FUEL OIL FILTER (IF REQUIRED) WITHIN 40" OF BURNER. IF FILTER MUST BE MORE THAN 40" AWAY, ADJUST FUSIBLE HEAD VALVE TO BE WITHIN 40" OF BURNER.
 3. ALL PIPING TO BE PRE PAINTED. ONLY TOUCH UPS PERMITTED FOR STANDARD INSTALLATIONS.
 4. ADD SIGNS AS PER ELEVATIONS

01 SCHEMATIC - TANK, PIPING & ACCESSORIES : ON STAND
 M3.0 SCALE: NTS



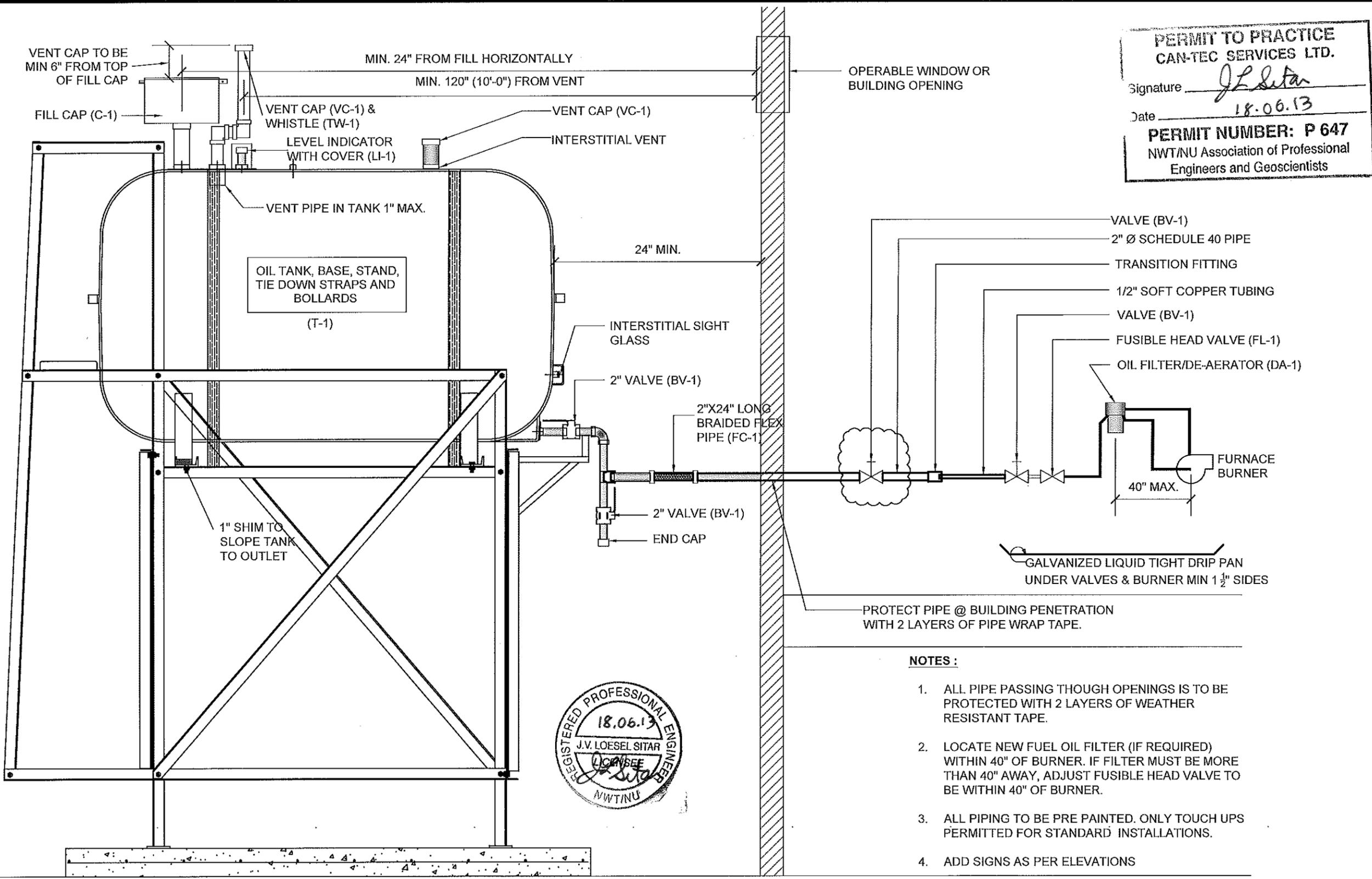
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 V158 - GARAGE / WORKSHOP, IGLOOLIK
 SHEET TITLE
 SCHEMATIC - TANK, PIPING & ACCESSORIES
 PROJECT NUMBER
 16-028-14-30

REV. #	REVISION	DATE (YY MM DD)	REV. BY
01	ADDED BALL VALVE	18 06 13	JLS
00	ISSUED FOR TENDER	18 03 08	JLS

REV. #	REVISION	DATE (YY MM DD)	REV. BY

SCALE:
 AS NOTED
 DATE (YY MM DD):
 18 03 08

DRAWING NUMBER:
M3.0
 REVISION NUMBER:
 00



PERMIT TO PRACTICE
CAN-TEC SERVICES LTD.
 Signature J.L. Sitar
 Date 18.06.13
PERMIT NUMBER: P 647
 NWT/NU Association of Professional
 Engineers and Geoscientists

PROTECT PIPE @ BUILDING PENETRATION
 WITH 2 LAYERS OF PIPE WRAP TAPE.

NOTES :

1. ALL PIPE PASSING THOUGH OPENINGS IS TO BE PROTECTED WITH 2 LAYERS OF WEATHER RESISTANT TAPE.
2. LOCATE NEW FUEL OIL FILTER (IF REQUIRED) WITHIN 40" OF BURNER. IF FILTER MUST BE MORE THAN 40" AWAY, ADJUST FUSIBLE HEAD VALVE TO BE WITHIN 40" OF BURNER.
3. ALL PIPING TO BE PRE PAINTED. ONLY TOUCH UPS PERMITTED FOR STANDARD INSTALLATIONS.
4. ADD SIGNS AS PER ELEVATIONS



01 SCHEMATIC - TANK, PIPING & ACCESSORIES : ON STAND
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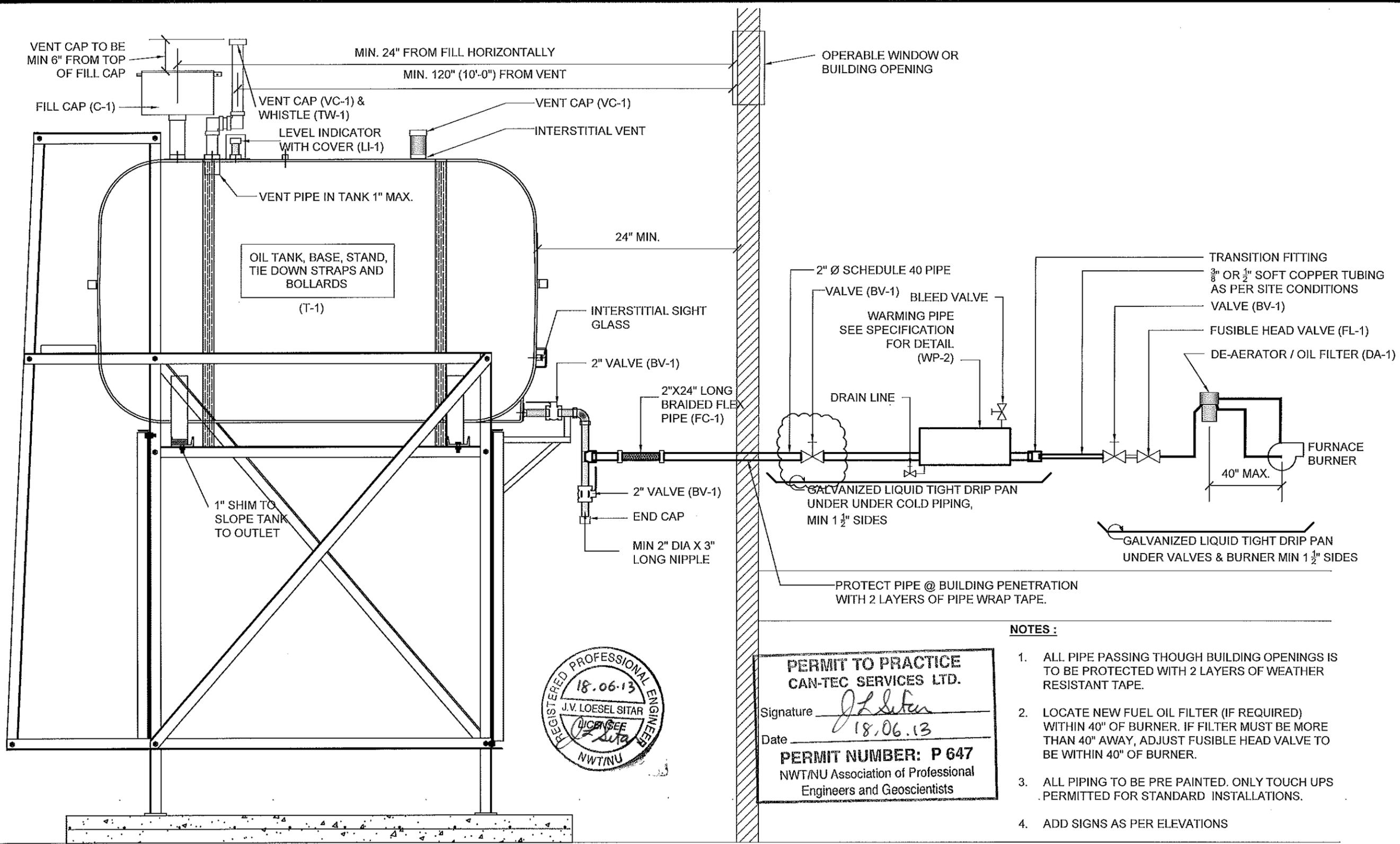
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 V146 - FITNESS BUILDING, IGLOOKIK
 SHEET TITLE:
 SCHEMATIC - TANK, PIPING & ACCESSORIES
 PROJECT NUMBER:
 16-028-14-30

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00	ISSUED FOR TENDER	18 03 08	JLS
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NOTES :

1. ALL PIPE PASSING THOUGH BUILDING OPENINGS IS TO BE PROTECTED WITH 2 LAYERS OF WEATHER RESISTANT TAPE.
2. LOCATE NEW FUEL OIL FILTER (IF REQUIRED) WITHIN 40" OF BURNER. IF FILTER MUST BE MORE THAN 40" AWAY, ADJUST FUSIBLE HEAD VALVE TO BE WITHIN 40" OF BURNER.
3. ALL PIPING TO BE PRE PAINTED. ONLY TOUCH UPS PERMITTED FOR STANDARD INSTALLATIONS.
4. ADD SIGNS AS PER ELEVATIONS



PERMIT TO PRACTICE
CAN-TEC SERVICES LTD.
 Signature *J. Loesel*
 Date 18.06.13
PERMIT NUMBER: P 647
 NWT/NU Association of Professional
 Engineers and Geoscientists

01 SCHEMATIC - TANK, PIPING & ACCESSORIES : ON STAND
 M3.0 SCALE: NTS



PROJECT TITLE:
 RCMP "V" DIVISION OIL TANK REPLACEMENT - IGLOOKIK
 V141 - DUPLEX RESIDENCE, IGLOOKIK
 SHEET TITLE:
 SCHEMATIC - TANK, PIPING & ACCESSORIES
 PROJECT NUMBER:
 16-028-14-30

01	ADDED BALL VALVE	18 06 13	JLS
00	ISSUED FOR TENDER	18 03 08	JLS
REV. #	REVISION	DATE (YY MM DD)	REV. BY

REV. #	REVISION	DATE (YY MM DD)	REV. BY
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SCALE:
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 17 03 03

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M3.0
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