

FUEL TANK REPAIR AND REPLACEMENT PROJECT KUGAARUK, NUNAVUT

DRAWING LIST:

V002 - RESIDENCE

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

V120 - RESIDENCE

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

V097 - FACILITY BUILDING

M1.0 MAIN FLOOR PLAN
M1.1 REPAIR DETAILS
M2.0 REPAIR DETAILS

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S17 TANK #5 - ELEVATIONS OF HIGH DOUBLE METAL STAND
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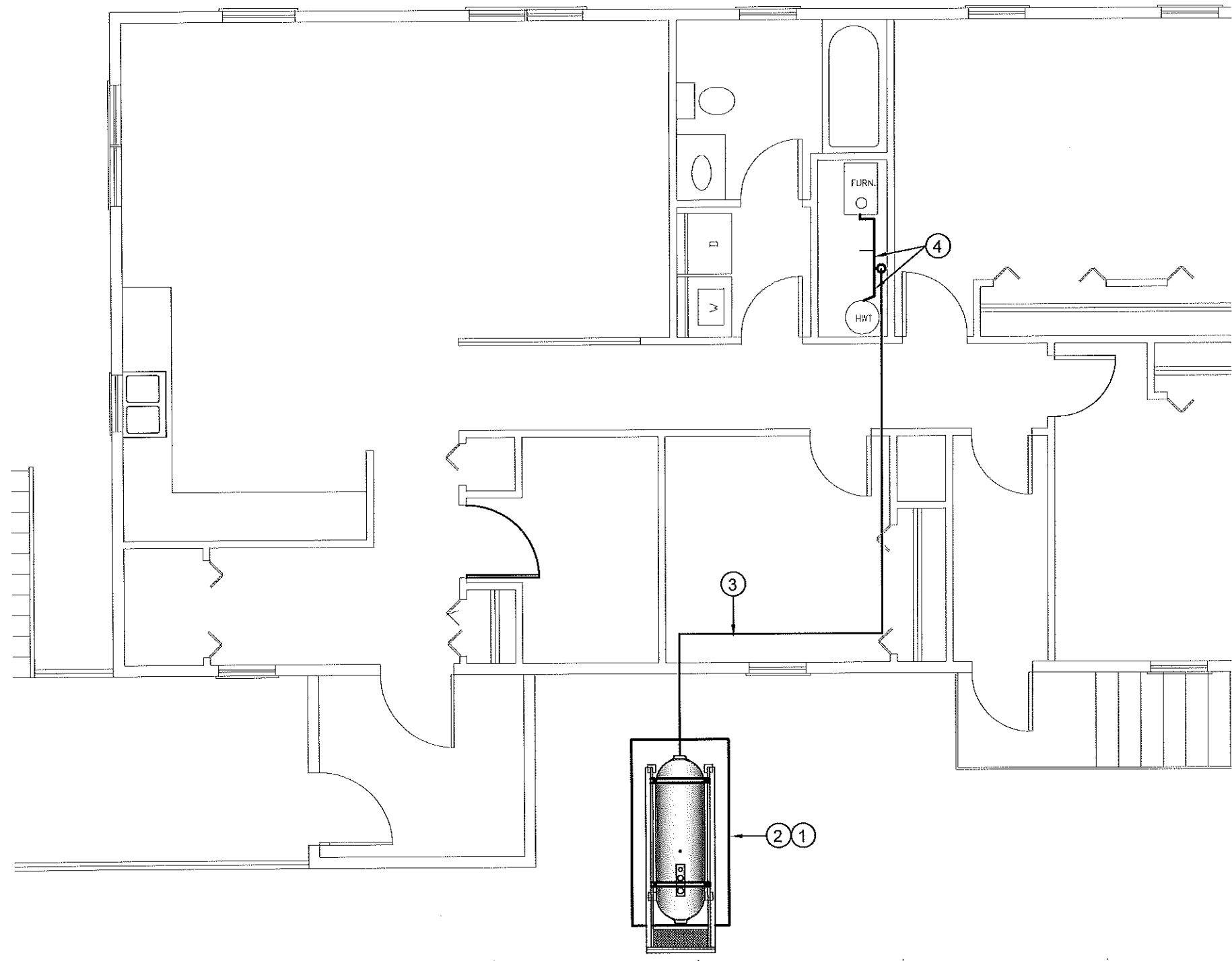
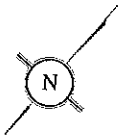
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RCMP "V" DIVISION OIL TANK REPLACEMENT - KUGAARUK
SHEET TITLE:
TITLE PAGE
PROJECT NUMBER:
16-028-14-30

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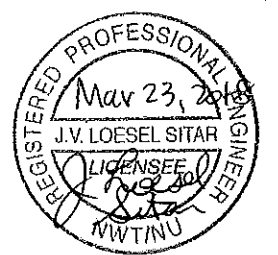


DEMOLITION NOTES: (#)

1. REMOVE ALL FUEL FROM THE TANK AND DISPOSE OF AS PER LOCAL REGULATIONS.
2. REMOVE EXISTING TANK STAND AND PAD. EXISTING FUEL TANK TO REMAIN. (EXISTING TANK IS FIBERGLASS).
3. REMOVE ALL PIPING TO FURNACE AND HOT WATER TANK. DISPOSE AS PER REGULATIONS.
4. REMOVE EXISTING TIGER LOOP AND FUEL FILTERS ON EXISTING FURNACE AND HWT. DISPOSE AS PER REGULATIONS.

01 DEMOLITION PLAN
 M1.0 SCALE: NTS

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 Signature J. L. Sitar
 Date Mar 23, 2018
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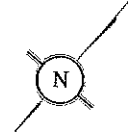
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 RCMP "V" DIVISION OIL TANK REPLACEMENT - KUGAARUK
 V002 - RESIDENCE, KUGAARUK NU
 SHEET TITLE:
 DEMOLITION PLAN
 PROJECT NUMBER:
 16-028-14-30

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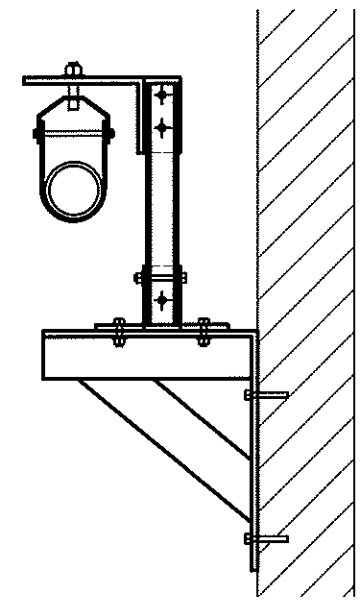
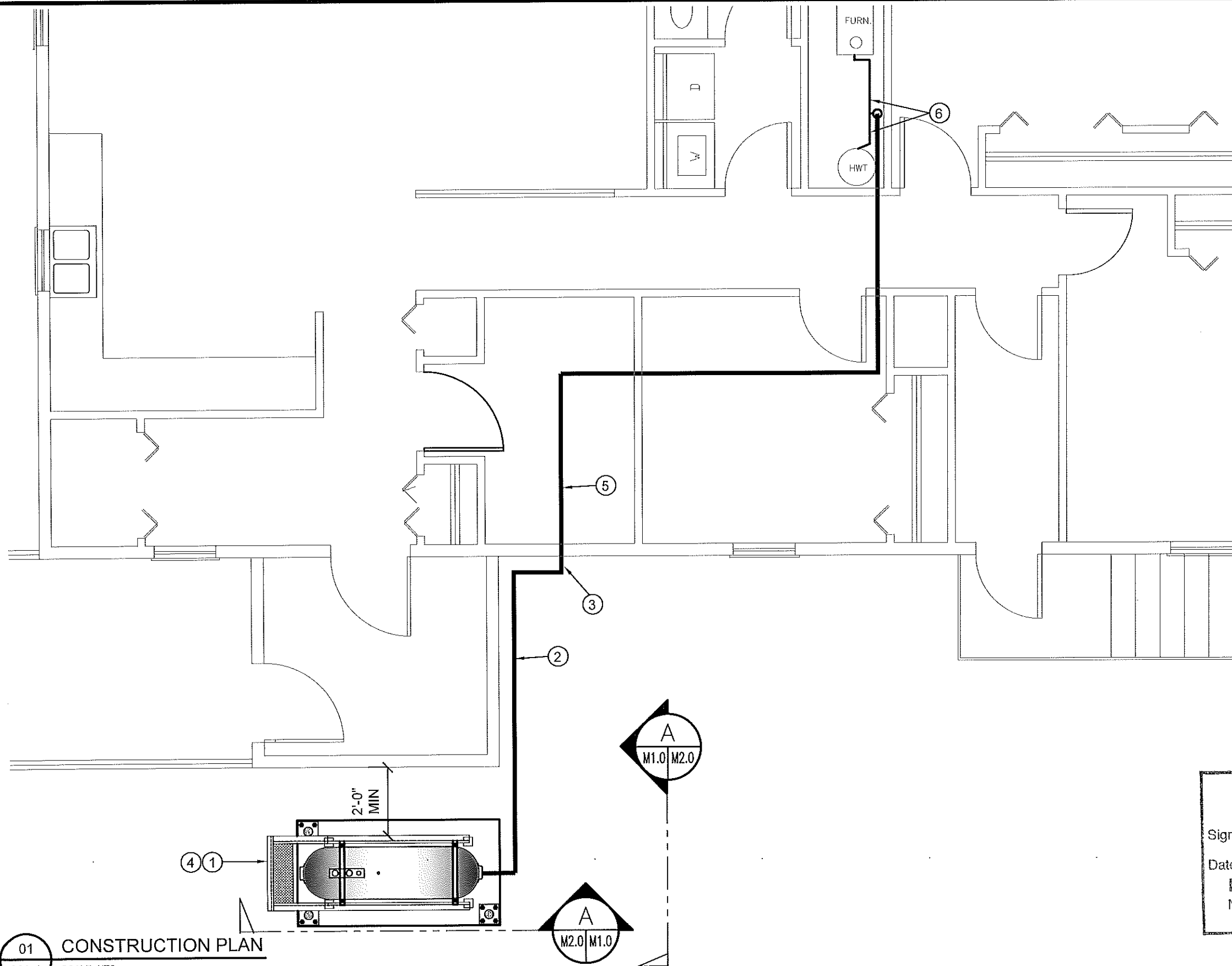
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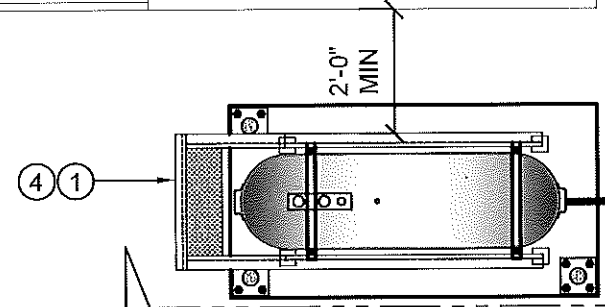


CONSTRUCTION NOTES: #

1. INSTALL NEW OIL TANK AND CONCRETE PAD IN NEW LOCATION.
2. PROVIDE SUPPORTS UNDER ALL PIPING FROM BOTTOM OF TANK.
3. CAULK ENTRY INTO BUILDING.
4. INSTALL NEW OIL TANK STAND #3 - SEE STRUCTURAL FOR DETAILS.
5. INSTALL NEW 2" FUEL PIPE IN CRAWL SPACE. INSTALL NEW HANGERS AS PER SPECIFICATION
6. INSTALL NEW FUEL FILTER, FUSIBLE LINK, TIGER LOOP AND FUEL PIPING TO FURNACE AND HOT WATER TANK. SEE M3.0



02 WALL PIPE SUPPORT
M1.1 SCALE: 1/2"=1'-0"



01 CONSTRUCTION PLAN
M1.1 SCALE: NTS

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V002 - RESIDENCE, KUGAARUK
SHEET TITLE:
CONSTRUCTION PLAN
PROJECT NUMBER:
16-028-14-30

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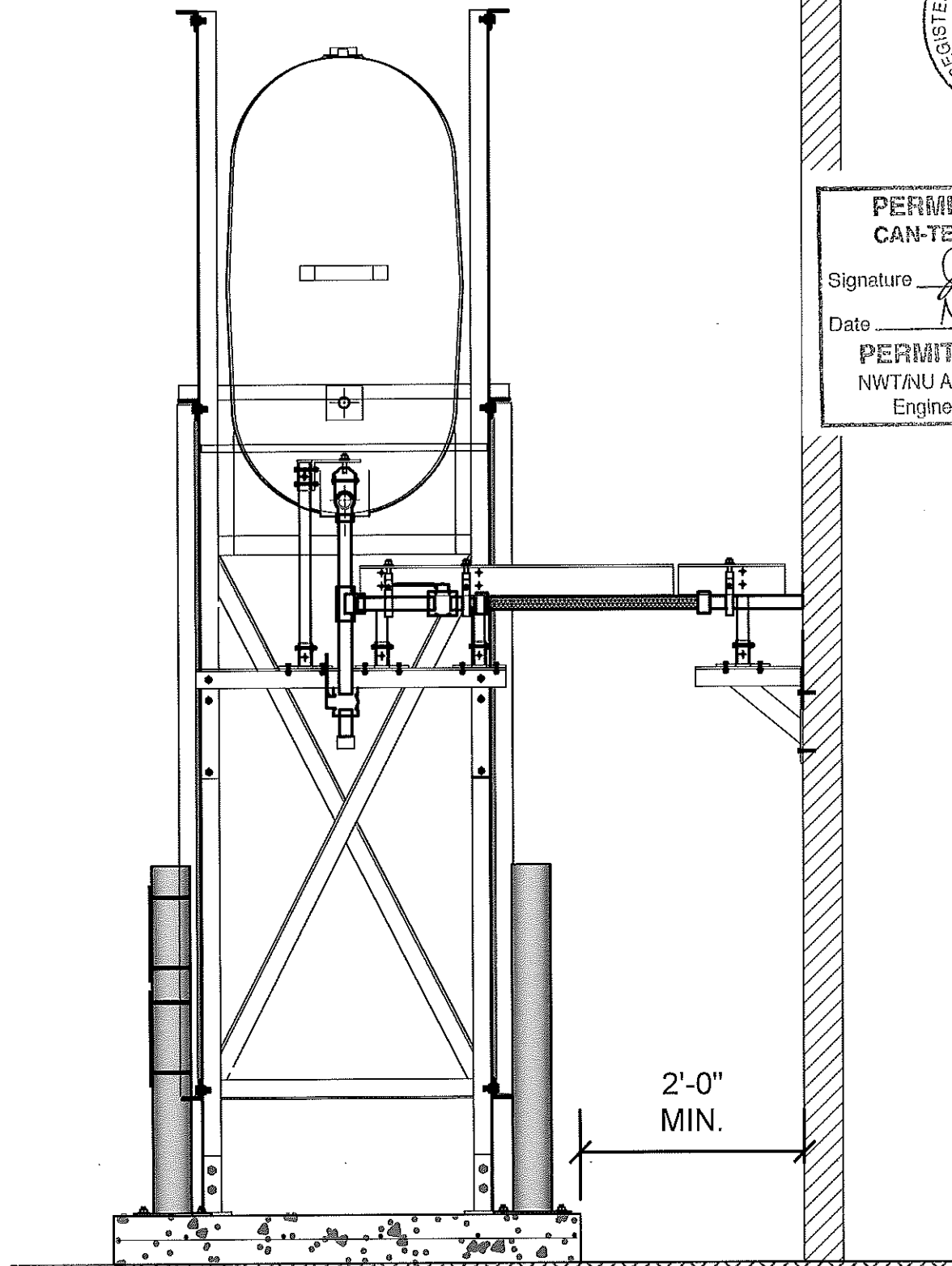
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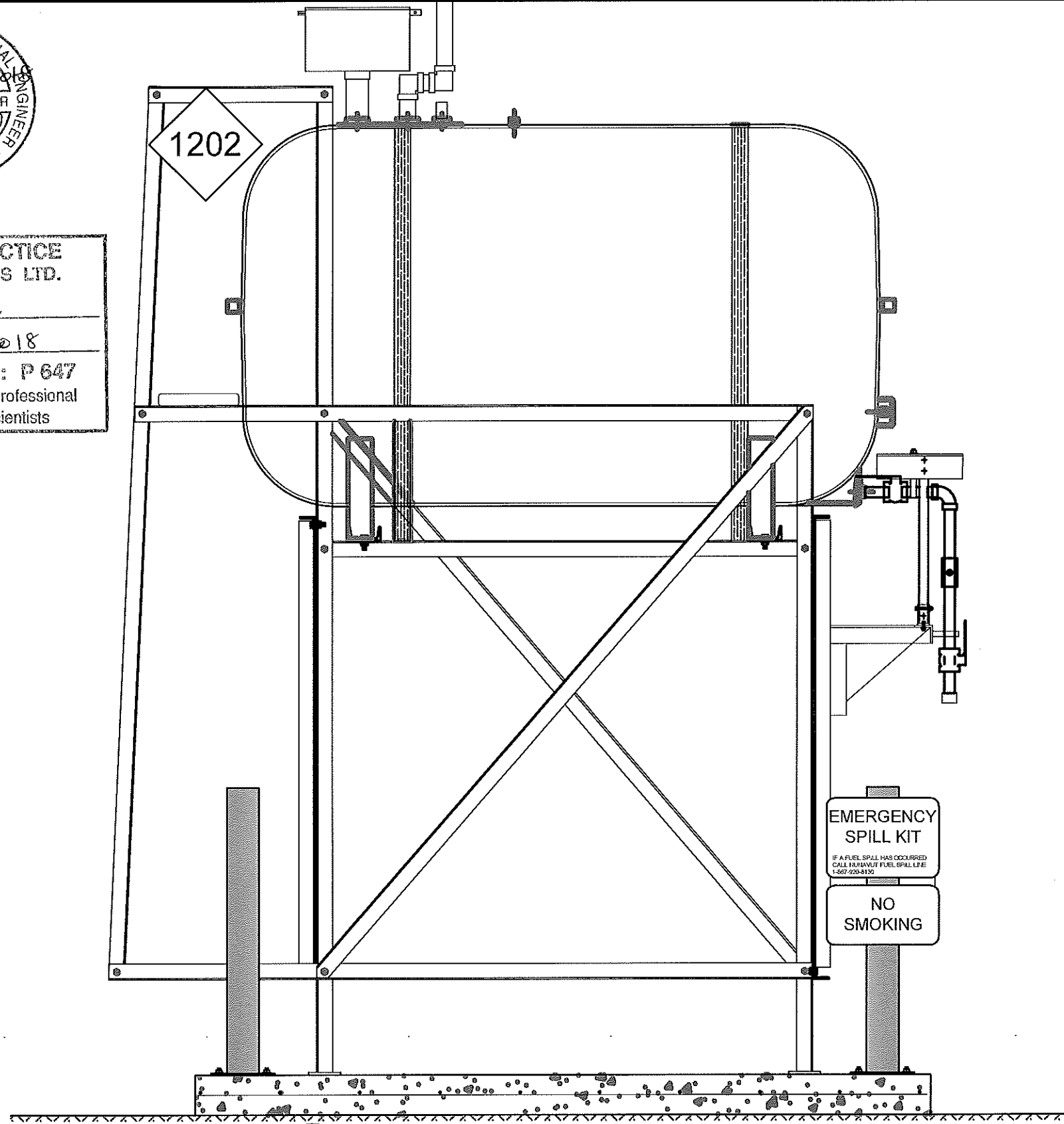
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REVISION NUMBER:
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01 OIL TANK ELEVATION - A
 M2.0 SCALE: 3/4"-1'-0"



02 OIL TANK ELEVATION - B
 M2.0 SCALE: 3/4"-1'-0"



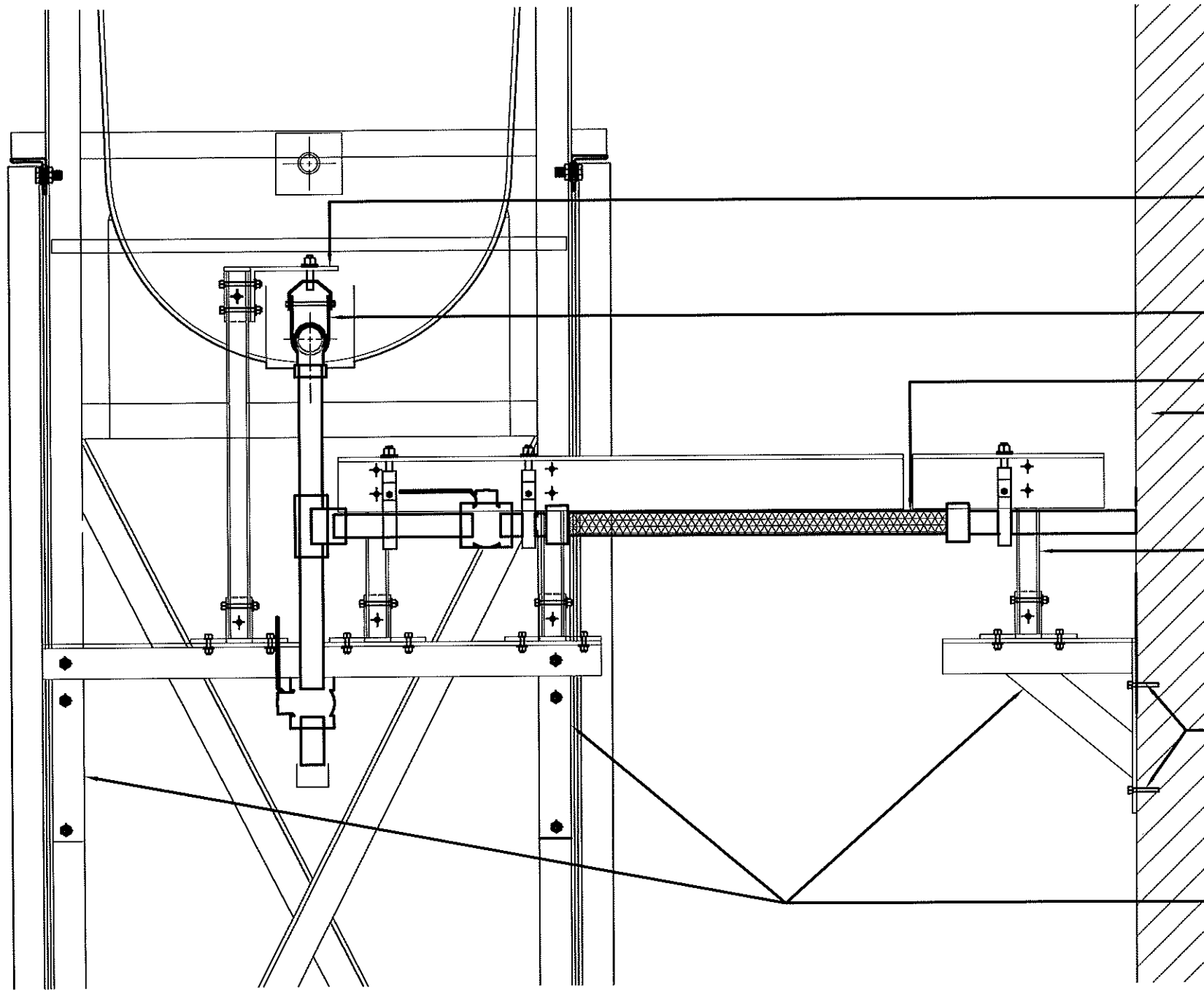
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 V002 - RESIDENCE, KUGAARUK NU
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 TANK ELEVATIONS
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SCALE:
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DRAWING NUMBER:
M2.0
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STEEL ANGLE GALVANIZED

STAINLESS STEEL CLEVIS HANGER

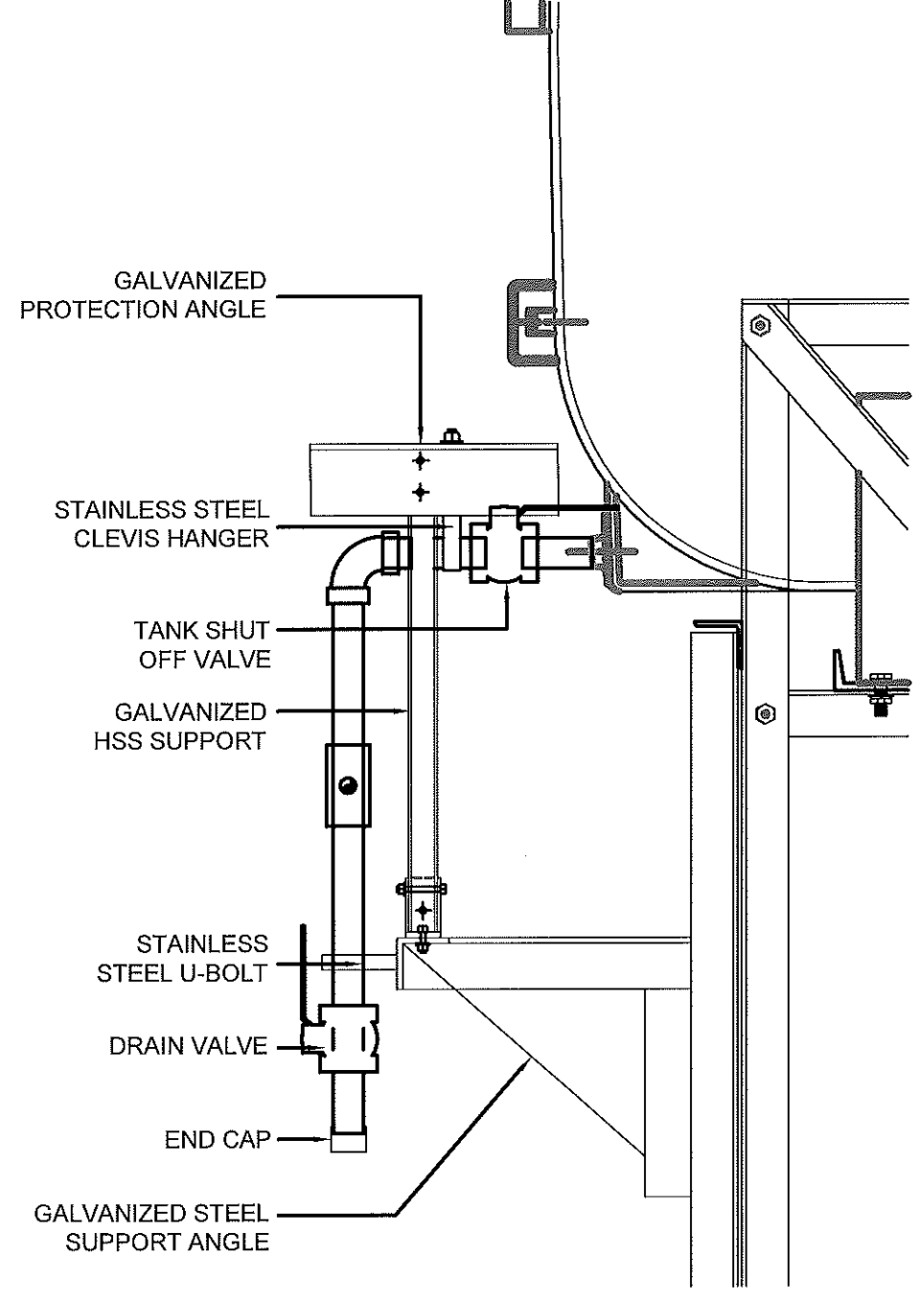
2"X24" LONG BRAIDED FLEX PIPE

EXISTING WALL

HSS TYPICAL

LAG BOLTS INTO EXISTING BUILDING

GALVANIZED STEEL ANGLE SUPPORT SEE STRUCTURAL



GALVANIZED PROTECTION ANGLE

STAINLESS STEEL CLEVIS HANGER

TANK SHUT OFF VALVE

GALVANIZED HSS SUPPORT

STAINLESS STEEL U-BOLT

DRAIN VALVE

END CAP

GALVANIZED STEEL SUPPORT ANGLE

01 FRONT VIEW
M2.1 SCALE: 1 1/2"-1'-0"

02 SIDE VIEW
M2.1 SCALE: 1 1/2"-1'-0"

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PROJECT TITLE:
RCMP "V" DIVISION OIL TANK REPLACEMENT - KUGAARUK NU
V002 - RESIDENCE, KUGAARUK NU

SHEET TITLE:
2" FUEL LINE SUPPORT DETAIL

PROJECT NUMBER:
16-028-14-30

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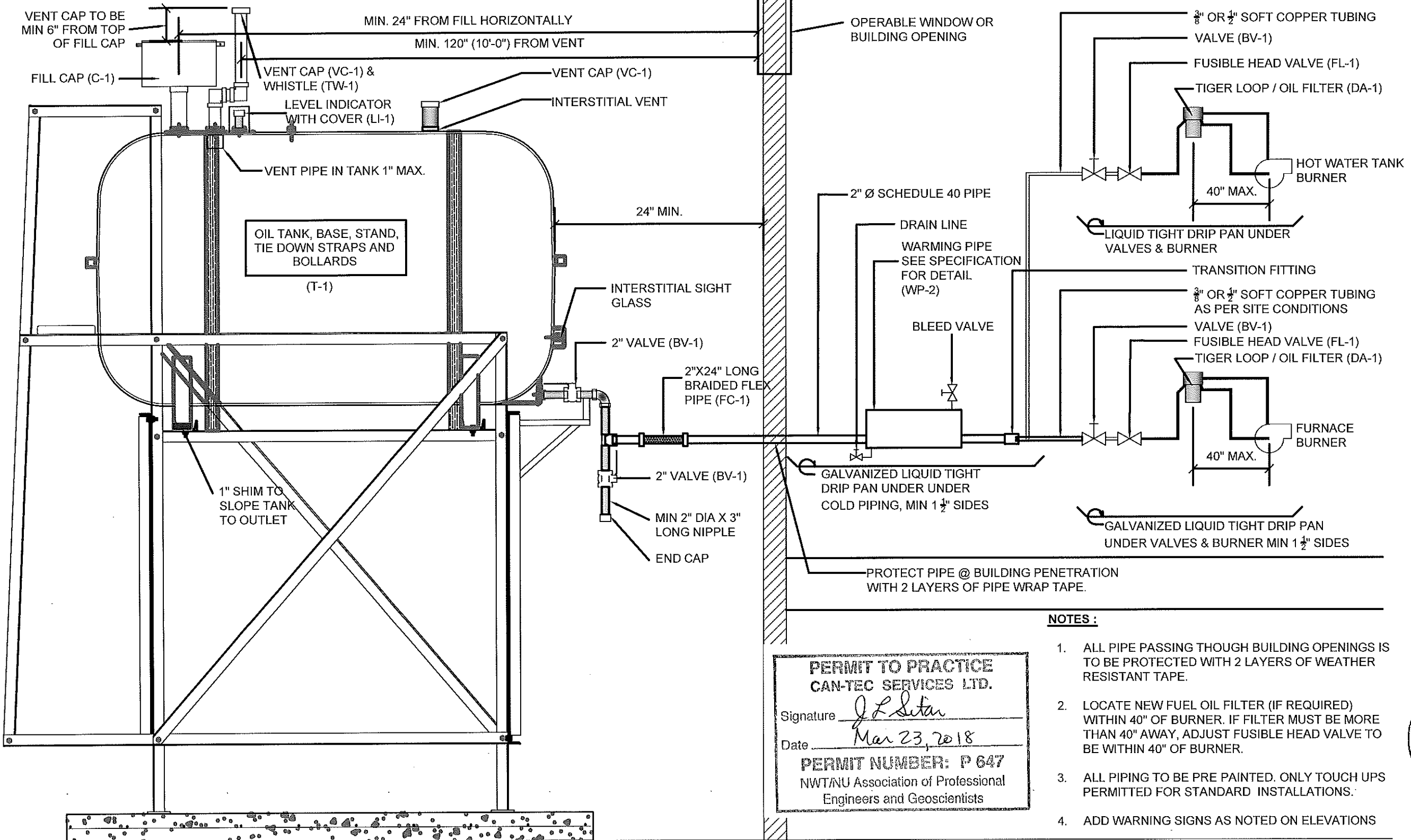
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SCALE:
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M2.1

REVISION NUMBER:
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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 WARNING SIGNS AS NOTED ON ELEVATIONS

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



PROJECT TITLE:
 RCMP "V" DIVISION OIL TANK REPLACEMENT - KUGAARUK
 V002 - RESIDENCE, KUGAARUK NU
 SHEET TITLE:
 SCHEMATIC - TANK, PIPING & ACCESSORIES
 PROJECT NUMBER:
 16-028-14-30

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

SCALE:
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DRAWING NUMBER:
M3.0
 REVISION NUMBER:
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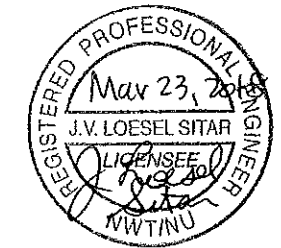
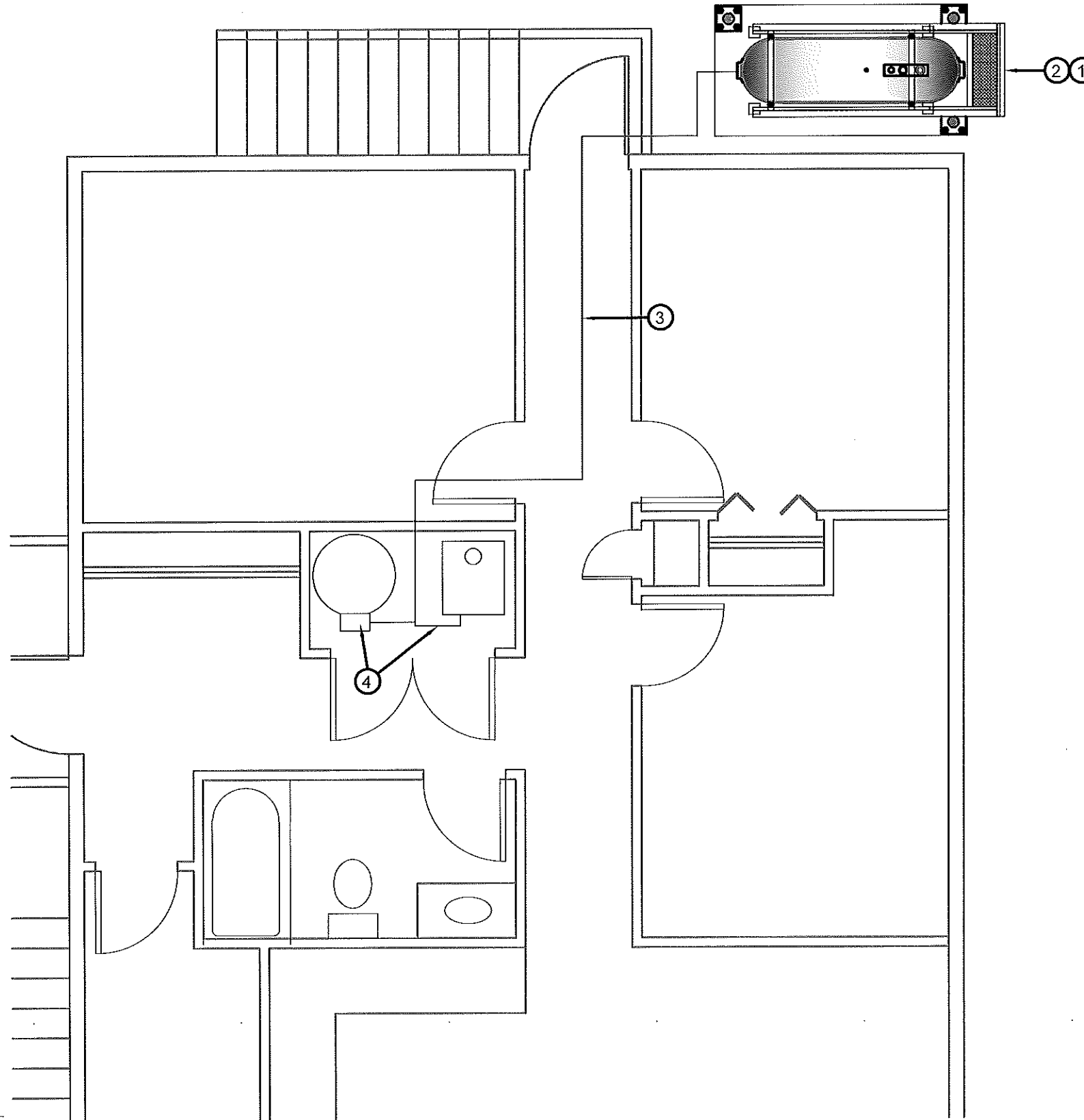


DEMOLITION NOTES:

1. REMOVE ALL FUEL FROM THE TANK AND DISPOSE OF AS PER LOCAL REGULATIONS
2. REMOVE EXISTING OIL TANK, STAND AND PAD AND DISPOSE OF AS PER LOCAL REGULATIONS

DEMOLITION NOTES: #

1. REMOVE ALL FUEL FROM THE TANK AND DISPOSE OF AS PER LOCAL REGULATIONS.
2. REMOVE EXISTING TANK AND PAD DISPOSE OF AS PER LOCAL REGULATIONS.
3. REMOVE ALL PIPING TO FURNACE AND HOT WATER TANK. DISPOSE OF AS PER LOCAL REGULATIONS.
4. REMOVE EXISTING TIGER LOOP AND FUEL FILTERS ON EXISTING FURNACE AND HWT. DISPOSE OF AS PER REGULATIONS.



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01 **DEMOLITION PLAN**
 M1.0 SCALE: 1/4" = 1'-0"



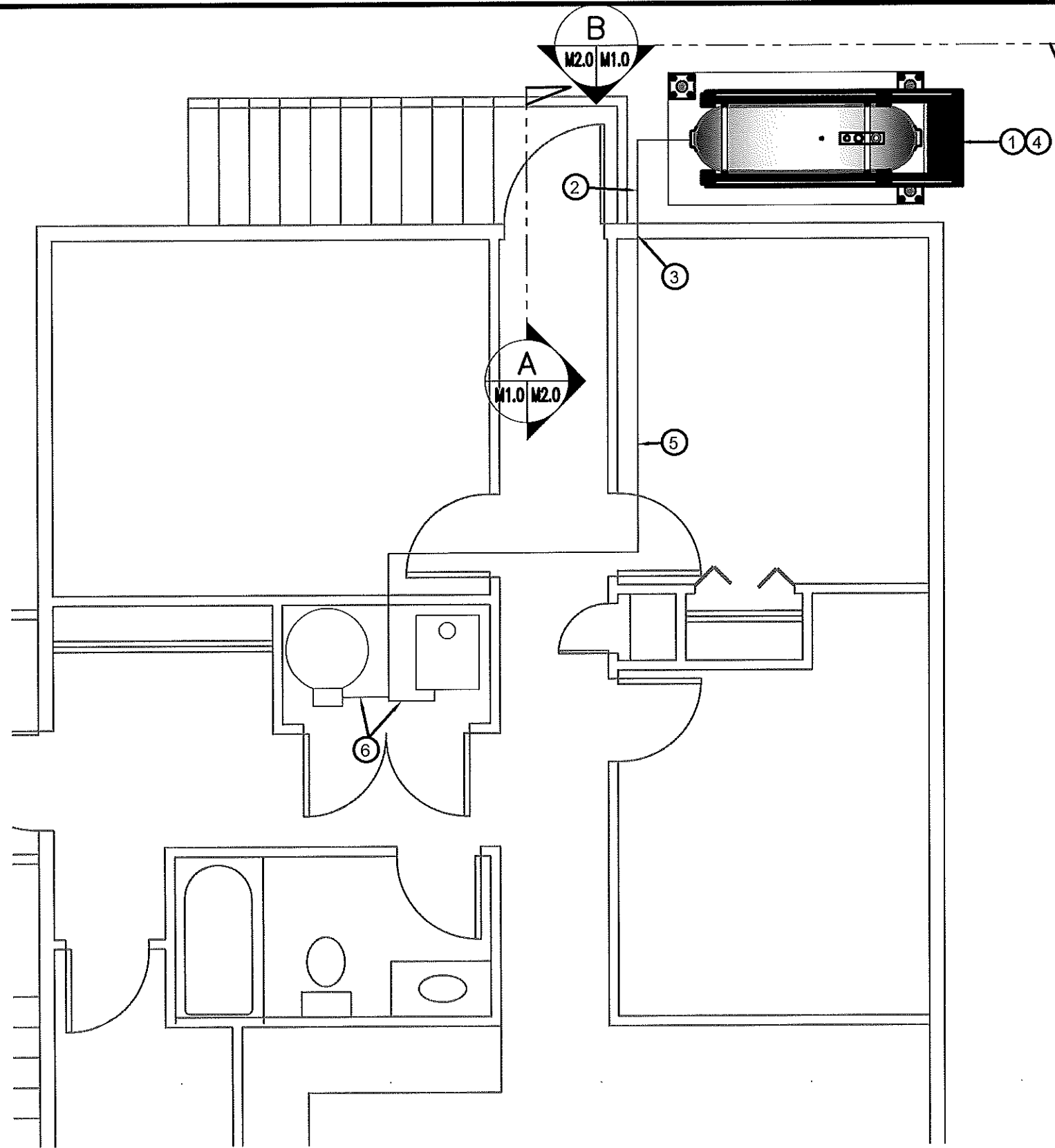
PROJECT TITLE:
 RCMP "V" DIVISION OIL TANK REPLACEMENT - KUGAARUK
 V120 - RESIDENCE, KUGAARUK
 SHEET TITLE:
 DEMOLITION PLAN
 PROJECT NUMBER:
 16-028-14-30

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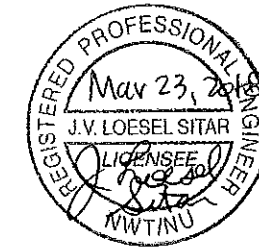
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DRAWING NUMBER:
M1.0
 REVISION NUMBER:
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CONSTRUCTION NOTES: #

1. INSTALL NEW OIL TANK, STAND AND CONCRETE PAD. SEE SHEET M2.0
2. INSTALL NEW PIPING SUPPORT AS PER SHEET M2.1
3. CAULK ENTRY INTO BUILDING.
4. INSTALL NEW OIL TANK STAND TYPE #3.
5. INSTALL NEW 2" FUEL PIPE IN CRAWL SPACE. INSTALL NEW HANGERS AS PER SPECIFICATION (SUPPLY NEW ACCESS TO CRAWL SPACE NONE IS PRESENT AT THIS TIME.)
6. INSTALL NEW FUEL FILTER , FUSIBLE LINK, TIGER LOOP AND FUEL PIPING TO FURNACE AND HOT WATER TANK. SEE M3.0



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01 CONSTRUCTION PLAN
M1.1 SCALE: 1/4" = 1'-0"



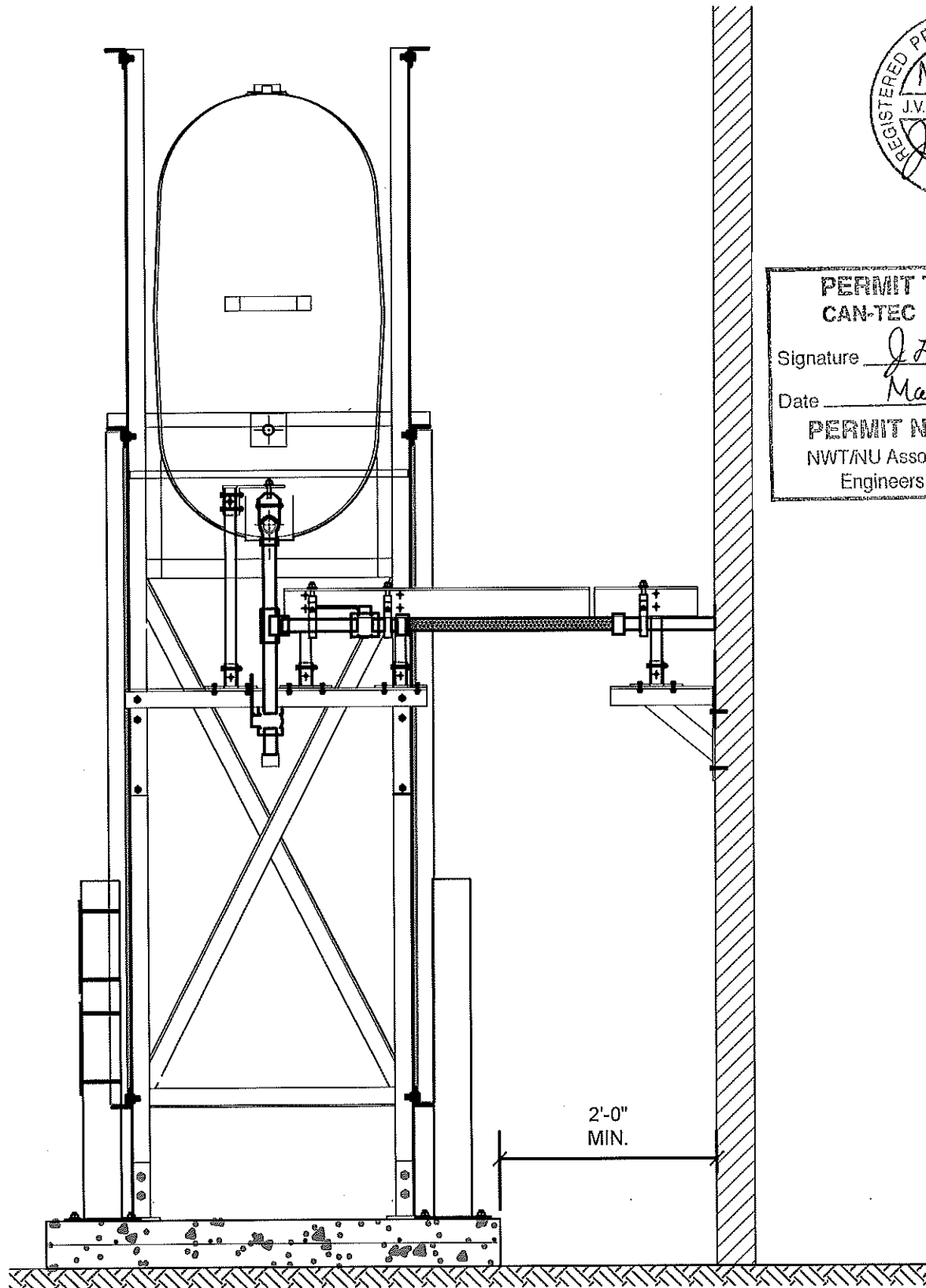
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RCMP "V" DIVISION OIL TANK REPLACEMENT - KUGAARUK
V120 - RESIDENCE, KUGAARUK
SHEET TITLE:
CONSTRUCTION PLAN
PROJECT NUMBER:
16-028-14-30

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SCALE:
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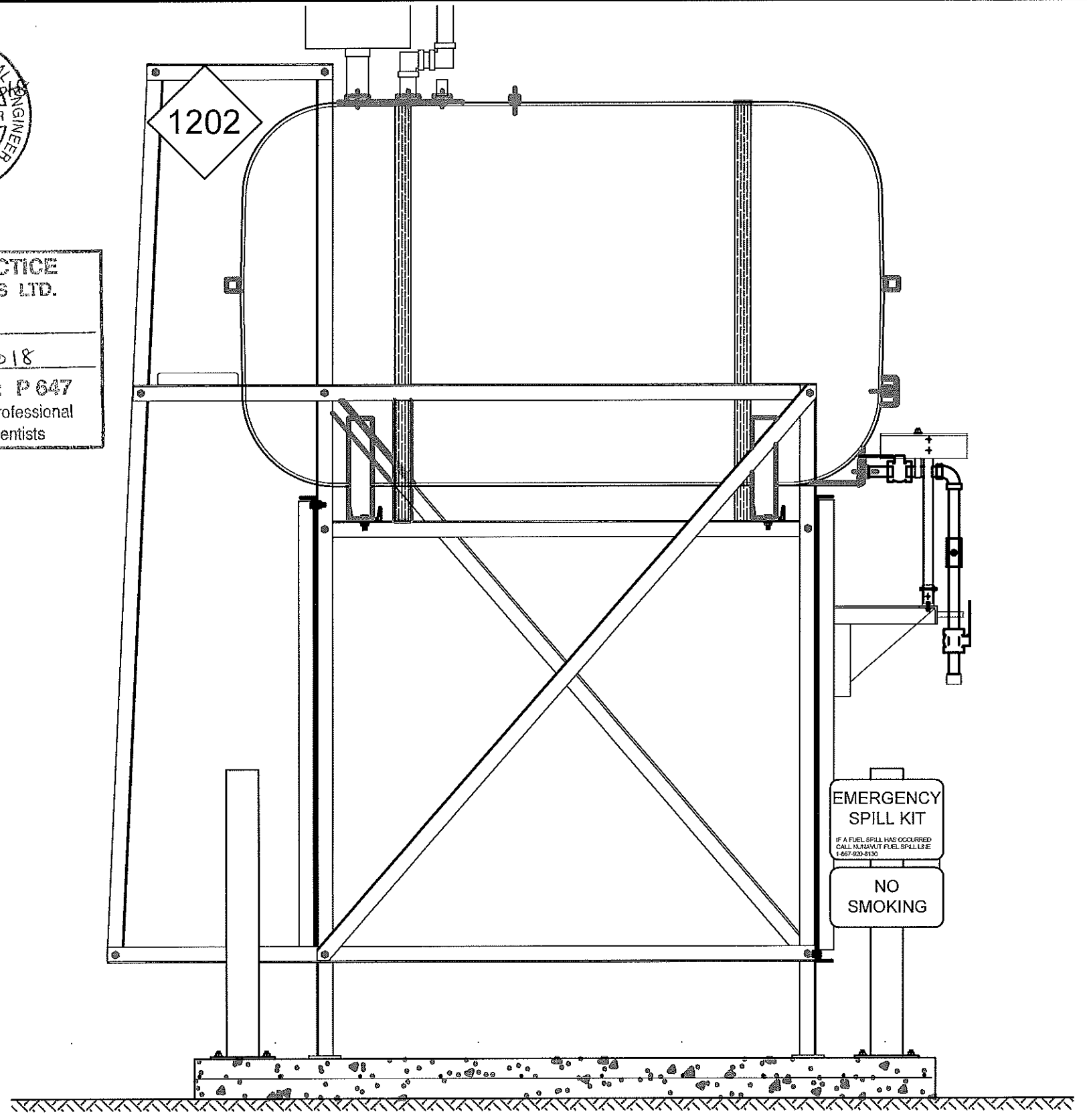
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REVISION NUMBER:
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01 OIL TANK ELEVATION - A
M2.0 SCALE: 3/4"-1'-0"



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02 OIL TANK ELEVATION - B
M2.0 SCALE: 3/4"-1'-0"



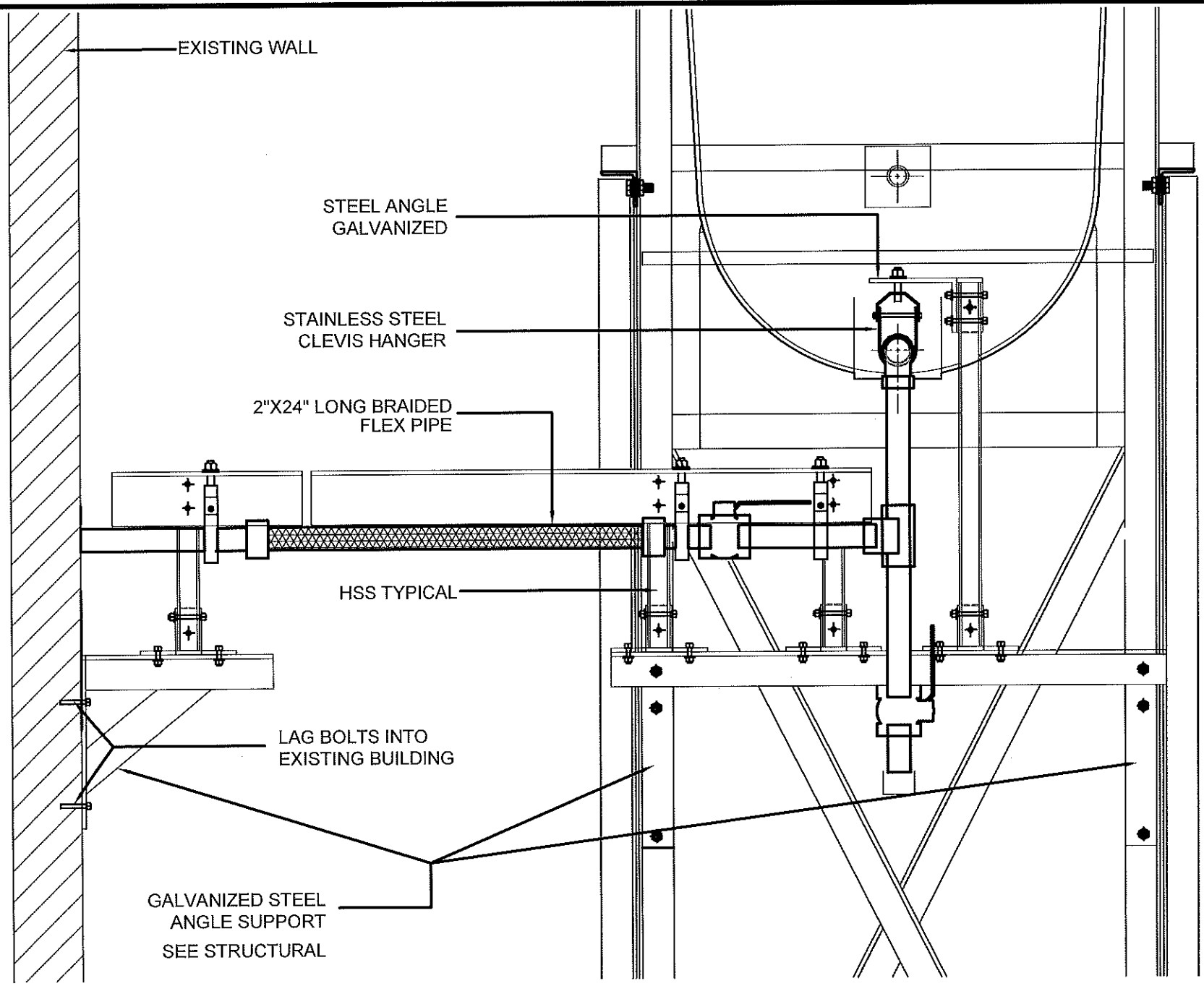
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V120 - RESIDENCE, KUGAARUK
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TANK ELEVATIONS
PROJECT NUMBER:
16-028-14-30

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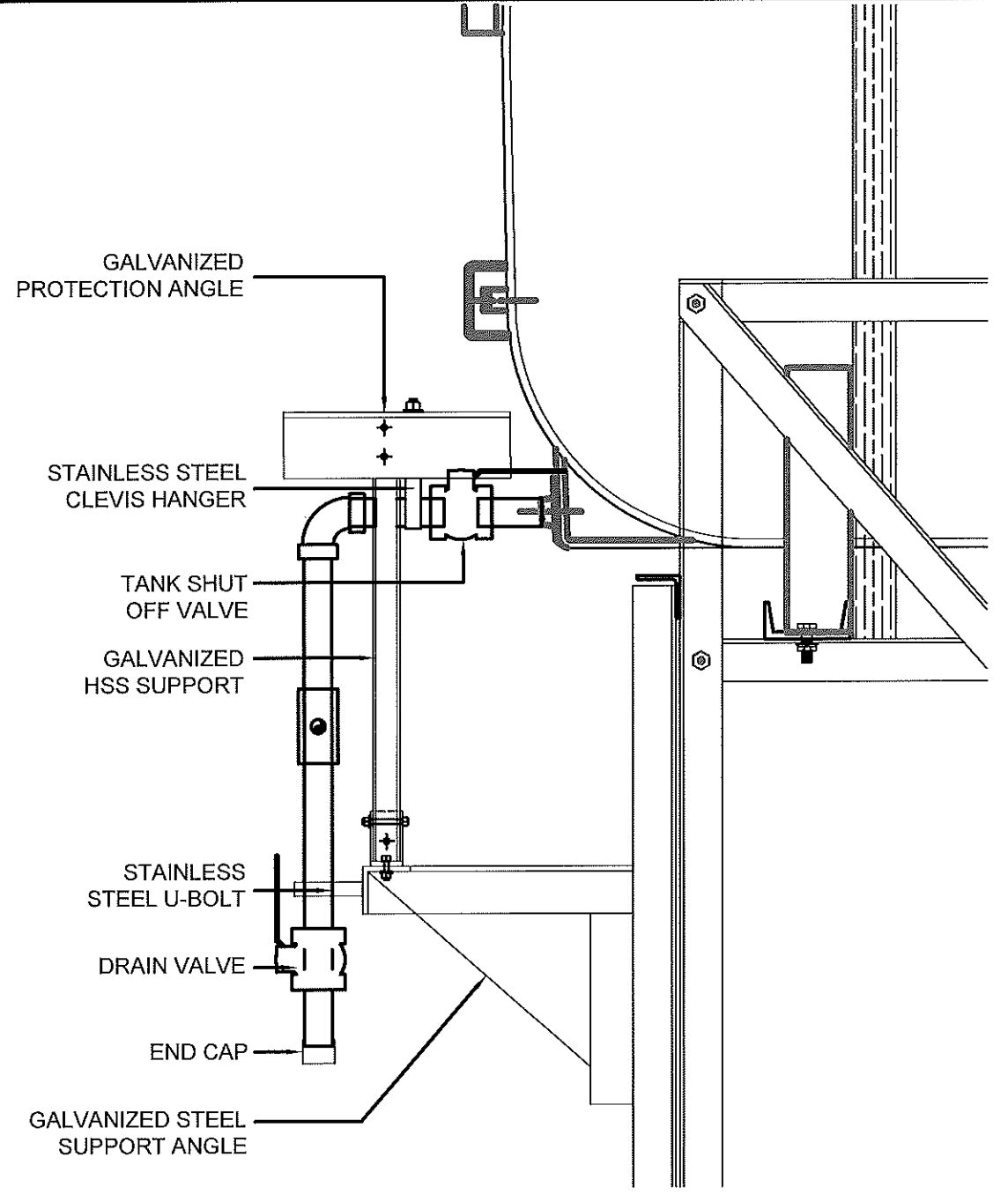
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SCALE:
AS NOTED
DATE (YY MM DD):
17 03 03

DRAWING NUMBER:
M2.0
REVISION NUMBER:
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01 FRONT VIEW
M2.1 SCALE: 1 1/2"-1'-0"



02 SIDE VIEW
M2.1 SCALE: 1 1/2"-1'-0"

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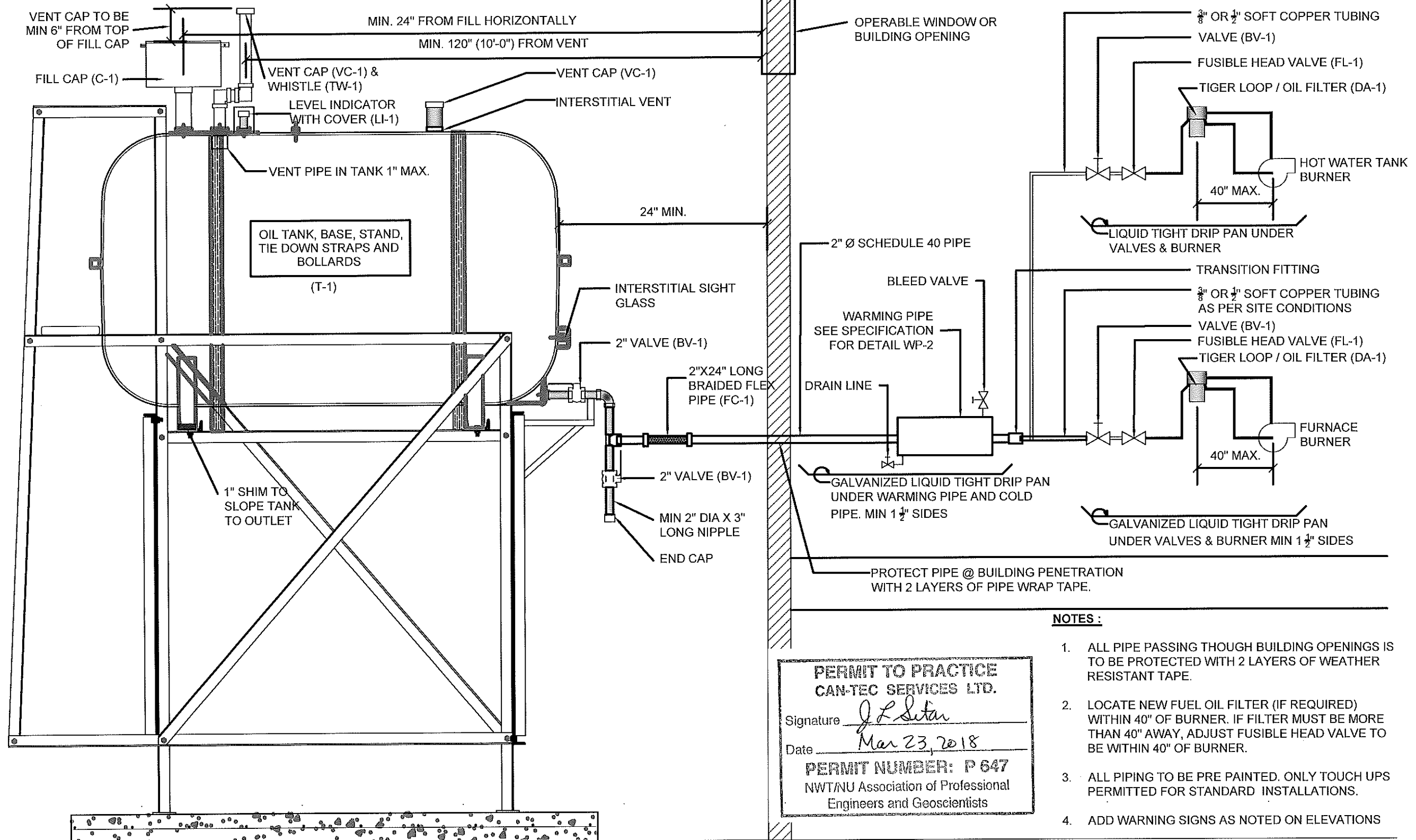
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RCMP "V" DIVISION OIL TANK REPLACEMENT - KUGAARUK
V120 - RESIDENCE, KUGAARUK
SHEET TITLE:
2" FUEL LINE SUPPORT DETAIL
PROJECT NUMBER:
16-028-14-30

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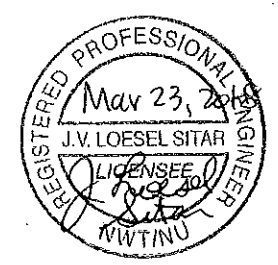
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DATE (YY MM DD):
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DRAWING NUMBER:
M2.1
REVISION NUMBER:
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- NOTES:**
1. ALL PIPE PASSING THOUGH BUILDING OPENINGS IS TO BE PROTECTED WITH 2 LAYERS 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 WARNING SIGNS AS NOTED ON ELEVATIONS

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1 **SCHEMATIC - TANK PIPING & ACCESSORIES**
 M3.0 SCALE: NTS



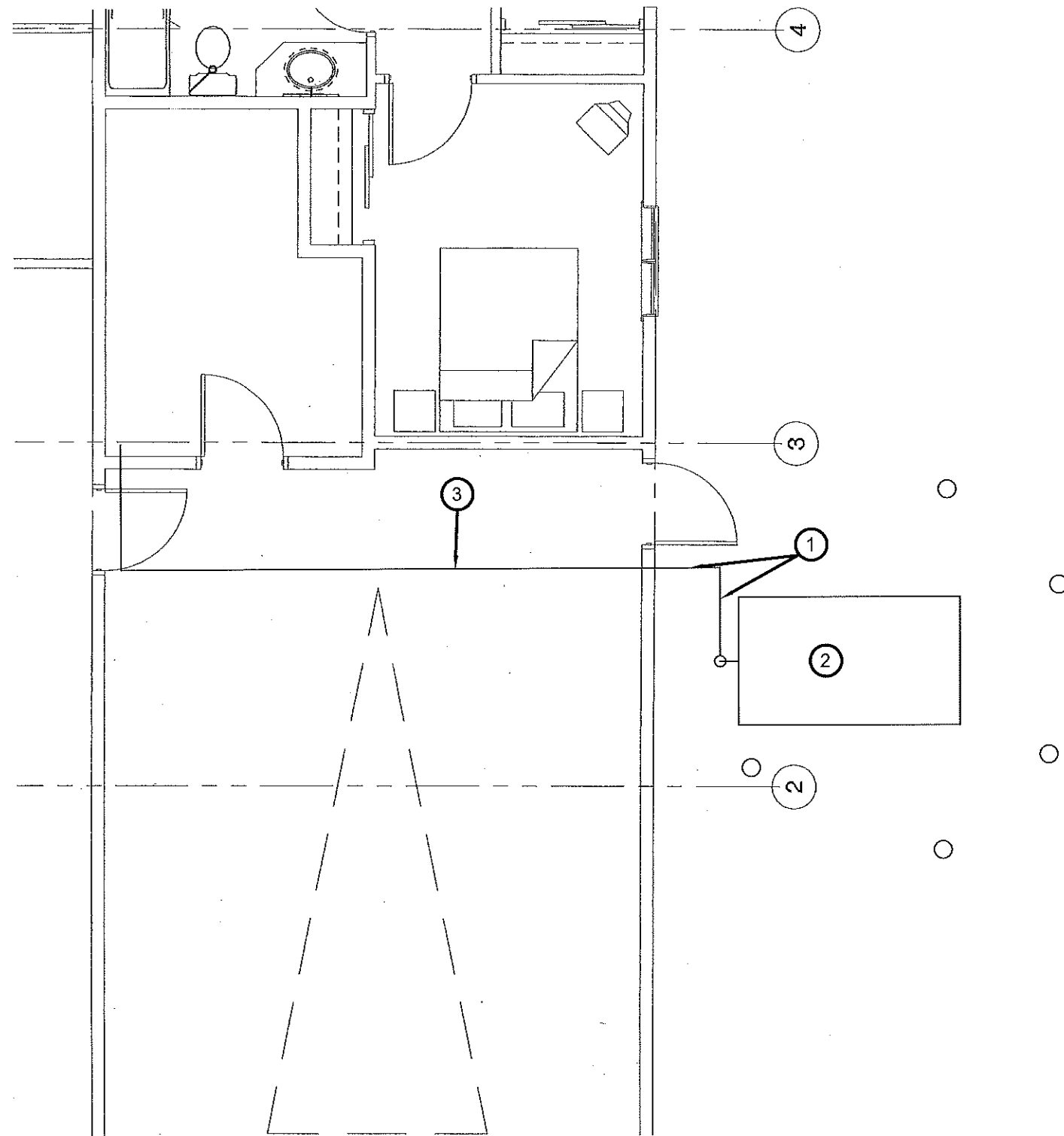
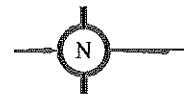
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 V120 - RESIDENCE, KUGAARUK
 SHEET TITLE:
 SCHEMATIC - TANK, PIPING & ACCESSORIES
 PROJECT NUMBER:
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SCALE:
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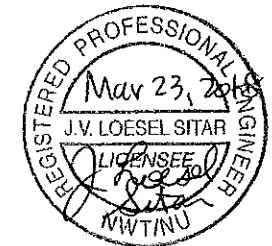
01 MAIN FLOOR PLAN
M1.0 SCALE: 1/4"=1'-0"

DRAWING NOTES: #

- 1. SUPPLY NEW PIPE PROTECTION FOR EXISTING FUEL TANK. SEE DETAIL SHEET M2.0
- 2. EXISTING FUEL TANK
- 3. EXISTING FUEL LINES

NOTES:

- 1. EXISTING FUEL TANK AND SYSTEM TO REMAIN. INSTALL NEW PIPE PROTECTION AS REQUIRED.



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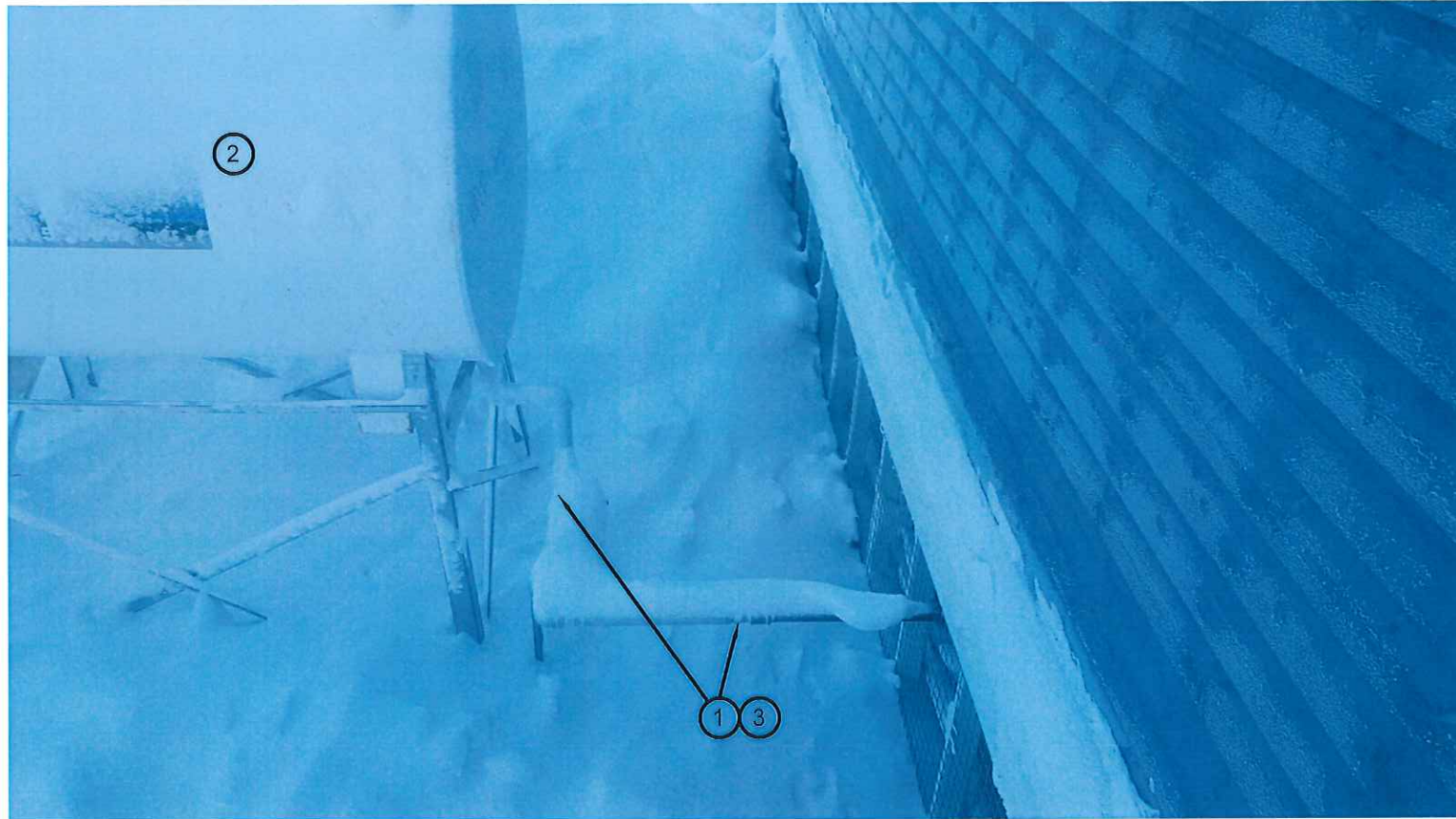
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RCMP "V" DIVISION OIL TANK REPLACEMENT - KUGAARUK
V097 - FACILITY BUILDING
SHEET TITLE:
MAIN FLOOR PLAN
PROJECT NUMBER:
16-028-14-30

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REVISION NUMBER:
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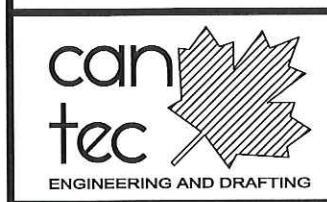
01 PIPE SUPPORT DETAIL
 M1.1 SCALE: NTS

DRAWING NOTES: #

1. SUPPLY NEW PIPE PROTECTION FOR EXISTING FUEL TANK. SEE DETAIL SHEET M2.0
2. EXISTING FUEL TANK
3. EXISTING FUEL LINES



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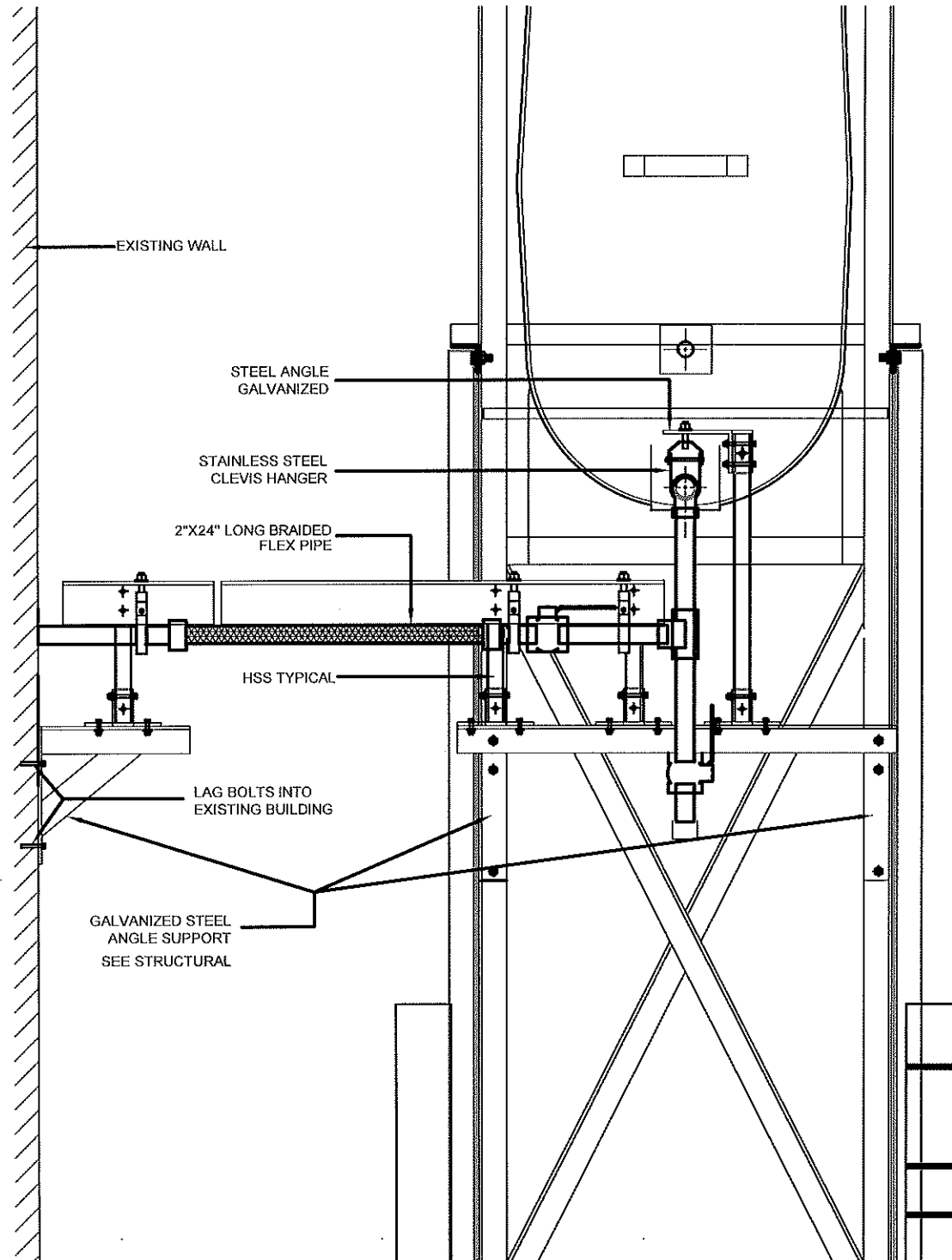
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 V097 - FACILITY BUILDING
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 REPAIR DETAILS
 PROJECT NUMBER:
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DRAWING NUMBER:
M1.1
 REVISION NUMBER:
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01 PIPE SUPPORT DETAIL
M1.1 SCALE: NTS



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V097 - FACILITY BUILDING
SHEET TITLE:
REPAIR DETAILS
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REV. #	REVISION	DATE (YY MM DD)	REV. BY

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SCALE:
AS NOTED
DATE (YY MM DD):
17 02 24

DRAWING NUMBER:
M2.0
REVISION NUMBER:
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GENERAL NOTES:

- DO NOT SCALE DRAWINGS.
- COORDINATE AND VERIFY ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO COMMENCING CONSTRUCTION.
- SEE ARCHITECTURAL DRAWINGS FOR ELEVATIONS, SLOPES, ROUGH OPENING DIMENSIONS FOR WINDOWS, DOORS, ETC.
- SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR OPENINGS IN FLOORS, ROOF, WALLS, ETC.
- DO NOT CUT OR DRILL OPENINGS IN ANY STRUCTURAL MEMBERS WITHOUT WRITTEN APPROVAL FROM BEACH ROCKE ENGINEERING LTD.
- BEACH ROCKE ENGINEERING LTD. SHALL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE OF REQUIRED SITE INSPECTIONS. (TEL: 1-204-255-7251, FAX: 1-204-257-7239).
- STRUCTURAL DRAWINGS SHOW THE COMPLETED STRUCTURE. THEY DO NOT SHOW COMPONENTS WHICH MAY BE NECESSARY FOR SAFETY DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION SITE SAFETY AND TO ENSURE THAT ALL SUBTRADES CONFORM TO THE LATEST REGULATIONS OF THE PROVINCIAL "BUILDING PROTECTION ACT", TO PROVIDE ALL NECESSARY SAFETY EQUIPMENT AS REQUIRED THEREIN AND TO NOTIFY LOCAL AUTHORITIES AS REQUIRED BY LAW.
- THE CONTRACTOR SHALL CONFORM TO THE COLD WEATHER REQUIREMENTS OF THE CSA STANDARD A23.1/A23.2 AND THE NATIONAL BUILDING CODE.
- IT IS THE GENERAL CONTRACTORS RESPONSIBILITY TO LOCATE ALL SITE SERVICES PRIOR TO CONSTRUCTION.
- THE GENERAL CONTRACTOR SHALL DESIGN ALL SHORING, FORM WORK, AND BRACING TO ENSURE PROPER CONSTRUCTION AND ERECTION.
- THE CONTRACTOR SHALL VISIT THE SITE, AND NOTE ALL CHARACTERISTICS AND IRREGULARITIES AFFECTING THE WORK OF THIS SECTION.
- SHOP DRAWINGS NOT STAMPED, SIGNED, AND DATED BY THE CONTRACTOR WILL BE RETURNED AND SHALL BE CONSIDERED REJECTED. SHOP DRAWINGS FOR WORK DESIGNED BY THE CONTRACTOR SHALL BEAR THE SEAL AND SIGNATURE OF A QUALIFIED PROFESSIONAL ENGINEER IN THE PROJECTS PROVINCE.
- THE CONTRACTOR SHALL SUBMIT AT LEAST 3 COPIES OF STAMPED SHOP DRAWINGS FOR ALL PRE-FABRICATED STRUCTURAL ASSEMBLIES, INCLUDING REINFORCING STEEL TO BEACH ROCKE ENGINEERING LTD. FOR REVIEW AND APPROVAL PRIOR TO FABRICATION. ALL SHOP DRAWINGS, EXCEPT REINFORCING STEEL, SHALL BEAR THE SEAL OF AN ENGINEER REGISTERED IN THE PROJECTS PROVINCE.

SLAB-ON-GRADE NOTES:

- ALL SLAB-ON-GRADE WILL EXPERIENCE MOVEMENT AND CRACKING DUE TO HEAVING AND SOIL EXPANSION RESULTING FROM THE NATURE OF THE CLAY SOIL, PREVIOUS AND PRESENT LEVEL OF VEGETATION AT THE SITE, SOIL MOISTURE LEVEL AND CONSTRUCTION PRACTICES. BEACH ROCKE ENGINEERING LTD. ACCEPTS NO LIABILITY FOR THIS CRACKING AND /OR MOVEMENT.

CONCRETE NOTES:

- CONCRETE SHALL BE MANUFACTURED AND PLACED IN ACCORDANCE WITH THE CSA STANDARDS A23.1-09/A23.2-09.
- THE CONTRACTOR SHALL PROVIDE ONE SET OF STANDARD CONCRETE CYLINDER TEST RESULTS CONDUCTED BY AN INDEPENDENT TESTING FIRM FOR EACH DAYS POUR AND AN ADDITIONAL SET OF CYLINDERS FOR EVERY 50 CUBIC METERS POURED AT NO EXTRA COST TO THE OWNER. TEST RESULTS ARE TO BE FORWARDED TO BEACH ROCKE ENGINEERING LTD. IMMEDIATELY UPON RECEIPT FROM THE TESTING FIRM.
- PROVIDE A MINIMUM 150mm (6") VOID UNDER ALL BEAMS, WALLS AND STRUCTURAL SLABS. VOID TO BE SHEARMAT OR APPROVED CARDBOARD VOIDFORM.
- VIBRATE ALL CONCRETE TO ENSURE COMPLETE CONSOLIDATION.
- THE LOCATIONS OF CONSTRUCTION JOINTS IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE APPROVED BY BEACH ROCKE ENGINEERING LTD.
- WHEN THE OUTSIDE TEMPERATURE FALLS BELOW 5 DEGREES CENTIGRADE, THE CONTRACTOR SHALL CONFORM TO CSA STANDARD A23.1-09/A23.2-09 AND THE NATIONAL BUILDING CODE FOR COLD WEATHER CONCRETING PROCEDURES, AND SHALL RECIEVE WRITTEN APPROVAL FROM BEACH ROCKE ENGINEERING LTD. PRIOR TO COMMENCING CONCRETE CONSTRUCTION.
- PROVIDE $\frac{1}{8}$ " x 1" SAW CUTS AT 20' O.C. BOTH WAYS IN FLOOR SLABS UNLESS OTHERWISE NOTED ON DRAWINGS.
- CONCRETE SHALL CONFORM TO THE FOLLOWING:

NAME	CONC. TYPE	STRENGTH	MAX. AGG.	SLUMP(MAX) AIR	EXPOSURE CLASS
SLABS	TYPE 10	32MPA @ 28 DAYS	20mm	120mm 5-8%	C-2

REINFORCING STEEL NOTES:

- REINFORCING STEEL SHALL BE NEW BILLET DEFORMED BARS MANUFACTURED AND DETAILED IN ACCORDANCE WITH CAN/CSA-G30.18-M92, WITH MINIMUM YEILD STRENGTH AS FOLLOWS: 10M BARS-300MPA, 15M BARS & LARGER - 400MPA.
- REINFORCING STEEL SHALL BE FREE FROM LOOSE RUST, MUD, OIL OR OTHER COATINGS WHICH MAY REDUCE THE BOND OR HARM THE CONCRETE.
- REINFORCING STEEL SHALL BE HELD IN PLACE AND TIED WITH PROPER ACCESSORIES SUCH AS HI-CHAIRS, SPACERS, TIES, ETC. SUPPLIED BY THE REINFORCING STEEL PROVIDER. APPROPRIATE SUPPORT SHALL BE PROVIDED UNDER ALL SUPPORT ACCESSORIES TO ENSURE THAT THE REINFORCING STEEL IS ACCURATELY POSITIONED.
- LAP TOP BARS AT MID-SPAN AND BOTTOM BARS OVER SUPPORTS.
- BEND ALL HORIZONTAL STEEL 18" AROUND CORNERS, OR USE EXTRA 36"x36" CORNER BARS TO MATCH HORIZONTALS.
- PROVIDE 2-15M AROUND ALL SLAB, WALL, & BEAM OPENINGS, UNLESS OTHERWISE NOTED ON STRUCTURAL DRAWINGS.
- CONCRETE COVER TO REINFORCING STEEL SHALL BE AS FOLLOWS:
 - CONCRETE CAST IN DIRECT CONTACT WITH SOIL - 75mm (3")
 - FORMED CONCRETE IN CONTACT WITH SOIL 15M OR SMALLER - 50mm (2")
 - FORMED CONCRETE IN CONTACT WITH SOIL 20M OR LARGER - 40mm (1 1/2")
 - FORMED CONCRETE NOT IN CONTACT WITH SOIL (BEAMS AND COLUMNS) - 40mm (1 1/2")
 - FORMED CONCRETE NOT IN CONTACT WITH SOIL (SLABS AND WALLS) - 20mm (3/4")
- MISCELLANEOUS CONCRETE HOUSEKEEPING PADS AND CURBS SHALL BE REINFORCED WITH A MINIMUM 10M AT 18" O.C. EACH WAY UNLESS NOTED. SEE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS.

STRUCTURAL STEEL NOTES:

- STRUCTURAL STEEL SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE CAN/CSA-S16-09 BY FULLY CERTIFIED MEMBERS OF THE CANADIAN INSTITUTE OF STEEL CONSTRUCTION.
- ALL STRUCTURAL STEEL SHALL CONFORM TO THE CAN/CSA G40.21-350W CLASS C TO SIZES AND SHAPES INDICATED ON THE DRAWINGS. NO SUBSTITUTIONS IN GRADES OR SIZES ARE PERMITTED WITHOUT WRITTEN APPROVAL OF BEACH ROCKE ENGINEERING LTD. ALL ANGLES AND PLATES TO BE G40.21-300W.
- ALL FABRICATION SHALL BE CARRIED OUT IN PLANT FACILITIES CERTIFIED BY THE CANADIAN WELDING BUREAU TO CSA S16-09 AND S136. SITE FABRICATION IS NOT PERMITTED WITHOUT WRITTEN APPROVAL FROM BEACH ROCKE ENGINEERING LTD.
- ALL WELDING SHALL BE PERFORMED IN ACCORDANCE WITH THE CSA W59 BY WELDERS FULLY CERTIFIED FOR STRUCTURAL WELDING BY THE CANADIAN BUREAU TO CSA W47.1. ALL BASE AND CAP PLATES SHALL BE FULLY WELDED TO COLUMNS.
- STRUCTURAL FASTENERS SHALL BE A325 BOLTS. ANCHOR BOLTS SHALL BE 18" LG. C/W 3"HOOK (A307) UNLESS NOTED OTHERWISE ON STRUCTURAL DRAWINGS. BASE AND CAP PLATES TO BE 3/4" THICK. CAP PLATES TO HAVE MIN. 4 BOLT (A325) CONNECTION UNLESS NOTED OTHERWISE ON STRUCTURAL DRAWINGS.
- PROVIDE TEMPORARY GUYING AND BRACING AS NECESSARY TO PROVIDE STABILITY FOR THE WHOLE STRUCTURE UNTIL DECKING AND PERMANENT BRACING ARE SECURED IN PLACE.
- PROVIDE 3/8" STIFFENER PLATES IN ALL BEAMS CONTINUOUS OVER SUPPORTS. HOLES ARE NOT PERMITTED IN THE TOP FLANGES UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- CLEAN ALL FIELD WELDS AND TOUCH UP WITH PRIMER TO MATCH SHOP COAT - ZINC PAINT
- DESIGN AND FABRICATE CONNECTIONS FOR THE FULL STRENGTH OF THE MEMBER. SPLICING OF MEMBERS IS NOT PERMITTED UNLESS WRITTEN APPROVAL FROM THE DESIGN ENGINEER HAS BEEN PROVIDED.
- ALL STEEL SHALL BE GALVANIZED.**
- STRUCTURAL STEEL SUPPLIER SHALL PROVIDE STAMPED SHOP DRAWINGS TO THE DESIGN ENGINEER FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.

STRUCTURAL DRAWING LIST:

- S1 - STRUCTURAL PROJECT NOTES
- S2 - TYP TANK SLAB, BOLLARD AND BASE PLATE DETAILS & 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 - ELEVATIONS 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



PROJECT TITLE:
RCMP "V" DIVISION OIL TANK REPLACEMENT

SHEET TITLE:
PROJECT NOTES

PROJECT NUMBER:
17-122-CG-39



REV. #	REVISION	DATE (YY MM DD)	REV. BY
03	ISSUED FOR TENDER	17 06 12	RH
02	ISSUED FOR 99% REVIEW	17 05 30	RH
01	ISSUED FOR REVIEW	17 03 31	RH

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

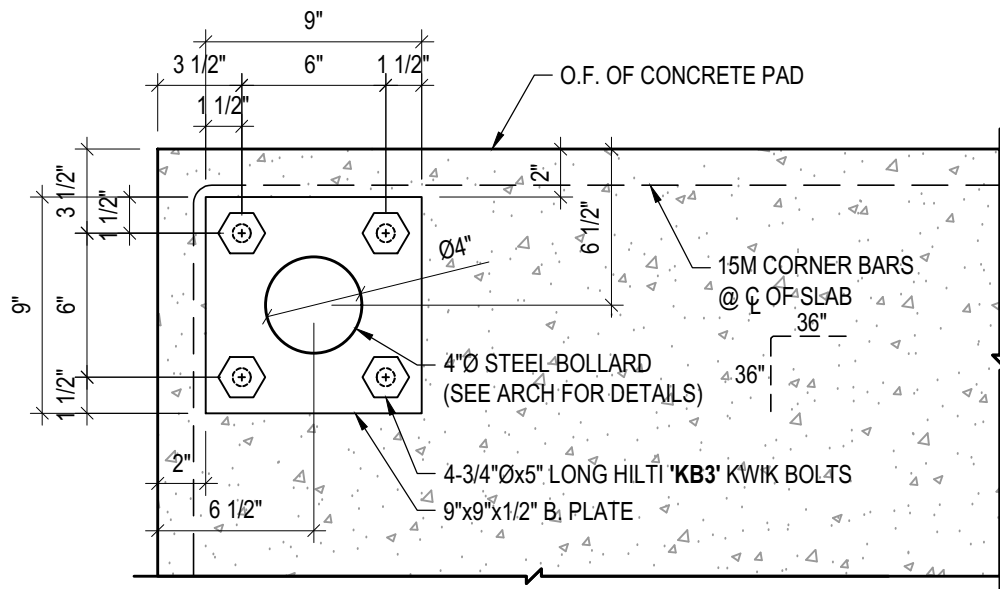
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DATE (YY MM DD):
17 06 12

DRAWING NUMBER:

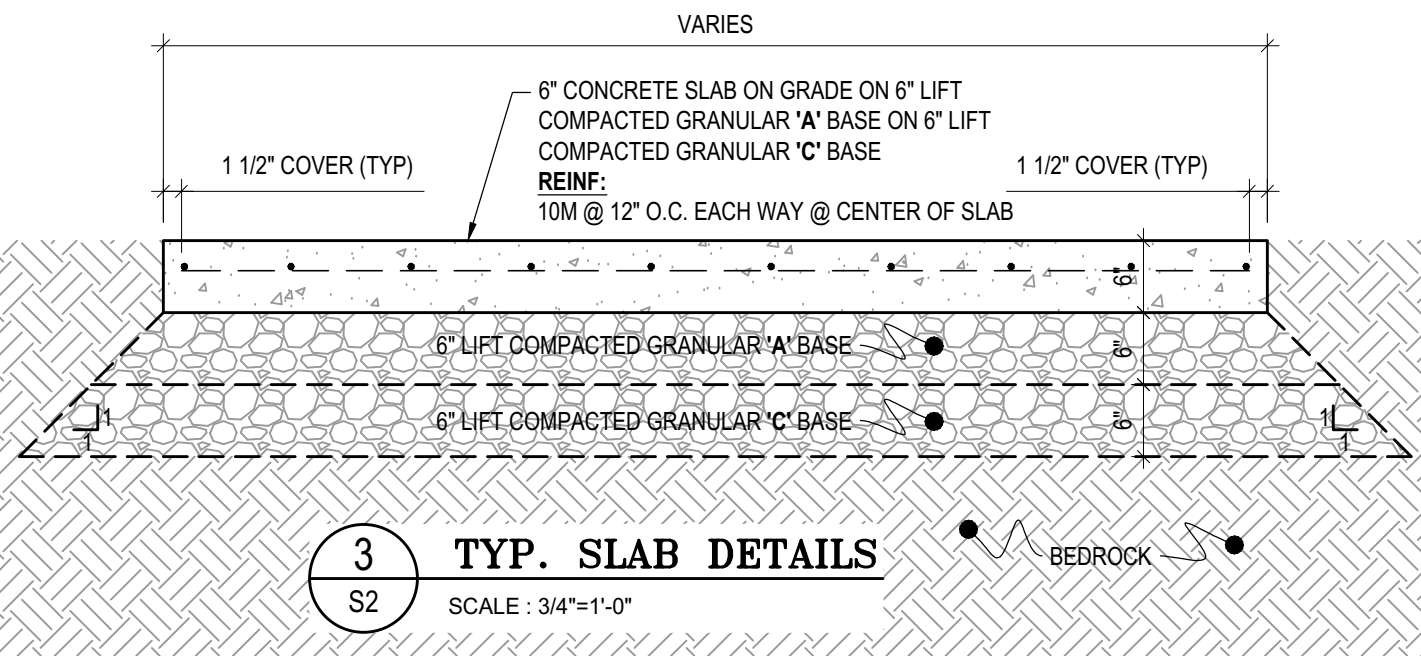
S1

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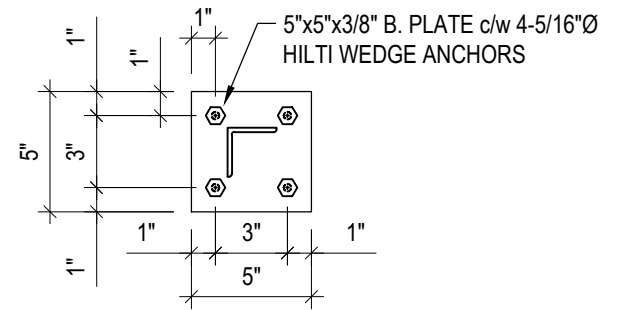


1 TYP BOLLARD BASE PLATE DETAILS
S2 SCALE : 1 1/2"=1'-0"

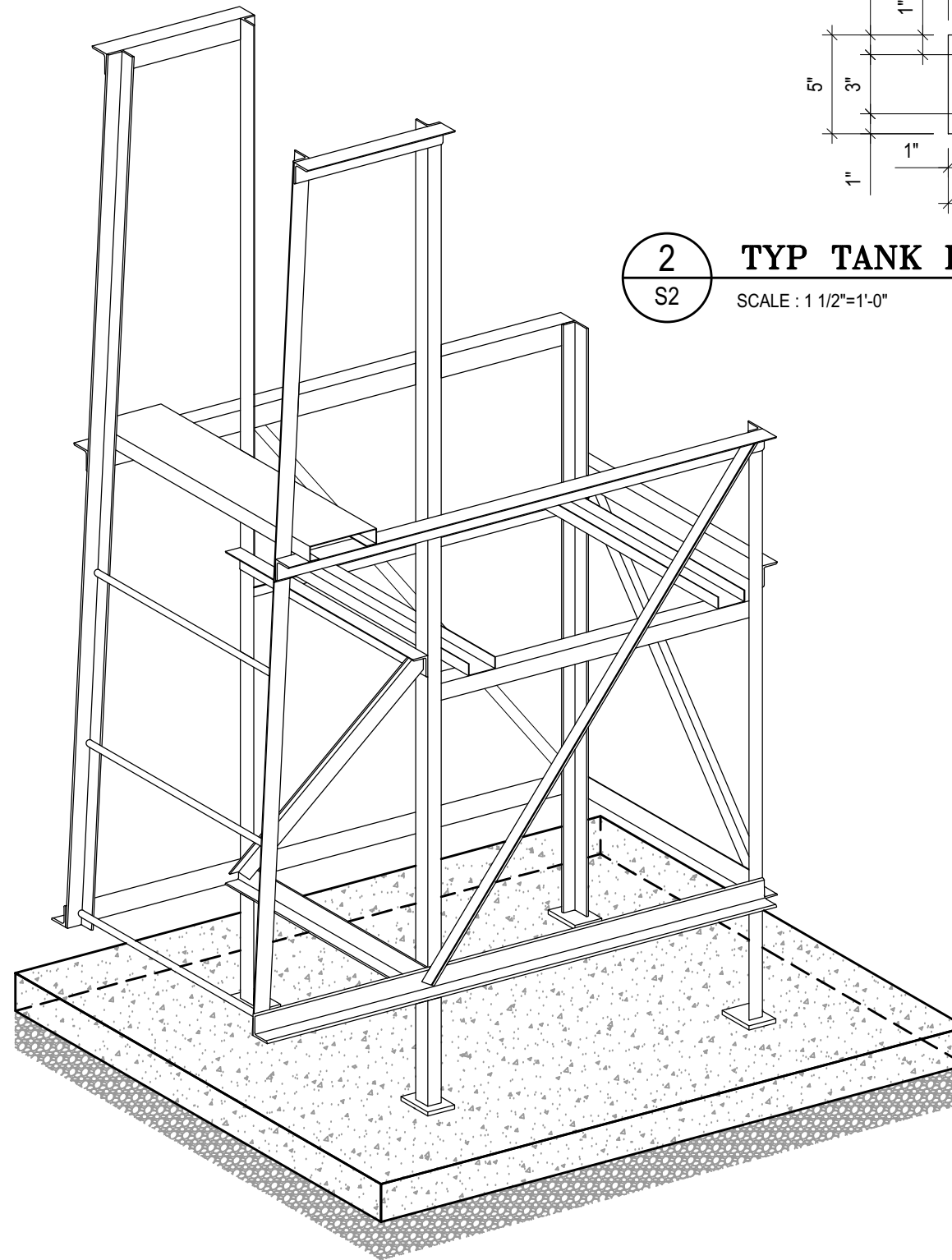
- NOTES:**
- ALL STEEL TO BE GALVANIZED (GALV) OR STAINLESS STEEL (SS)
 - CONFIRM ALL DIMENSIONS SHOWN WITH MECH. DRAWINGS



3 TYP. SLAB DETAILS
S2 SCALE : 3/4"=1'-0"

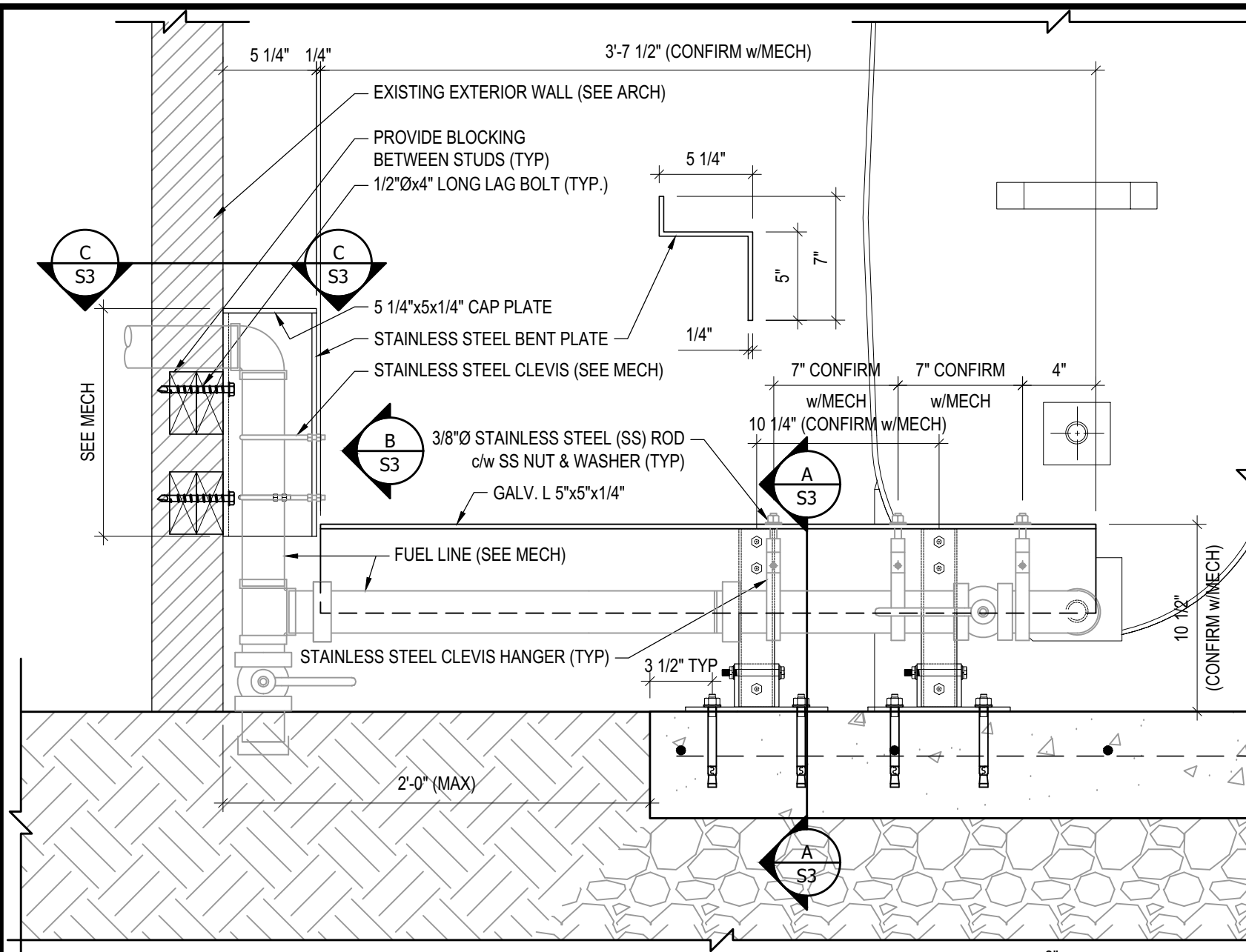


2 TYP TANK BASE PLATE DETAIL
S2 SCALE : 1 1/2"=1'-0"



4 TYP. ISOMETRIC VIEW OF METAL STANDS
S2 NOT TO SCALE

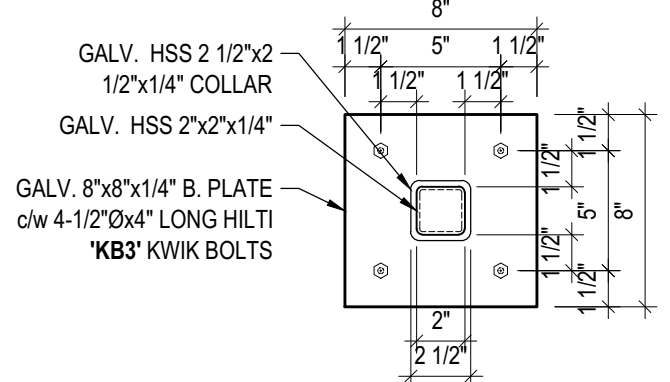




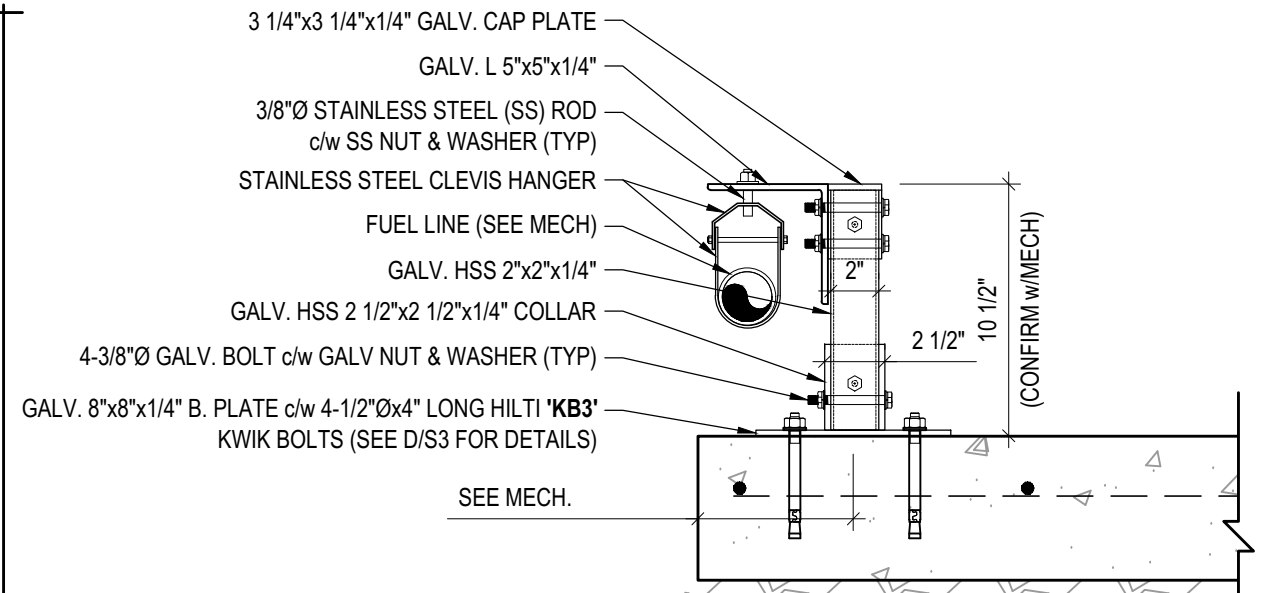
1 CONNECTION #1 DETAILS
S3 SCALE : 1 1/2"=1'-0"

NOTES:

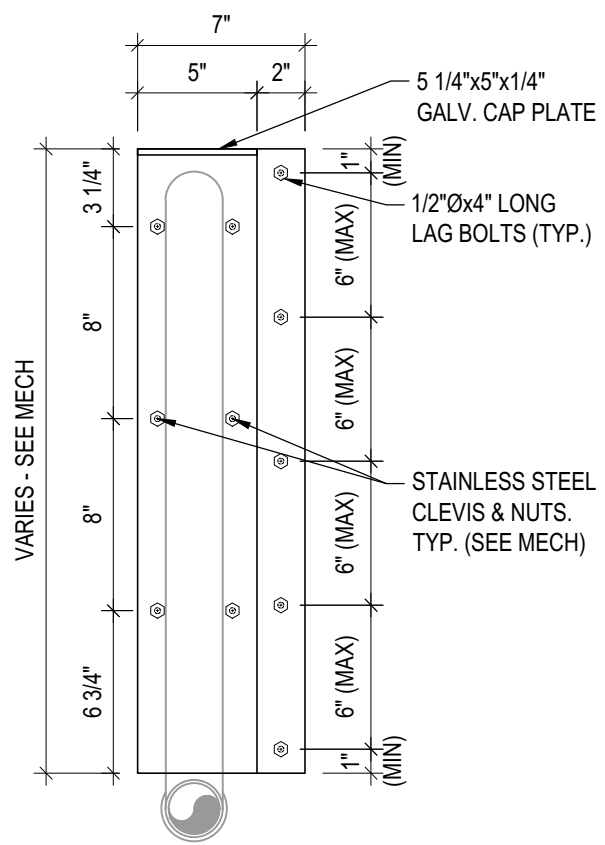
- ALL STEEL TO BE GALVANIZED (GALV) OR STAINLESS STEEL (SS)
- CONFIRM ALL DIMENSIONS SHOWN WITH MECH. DRAWINGS



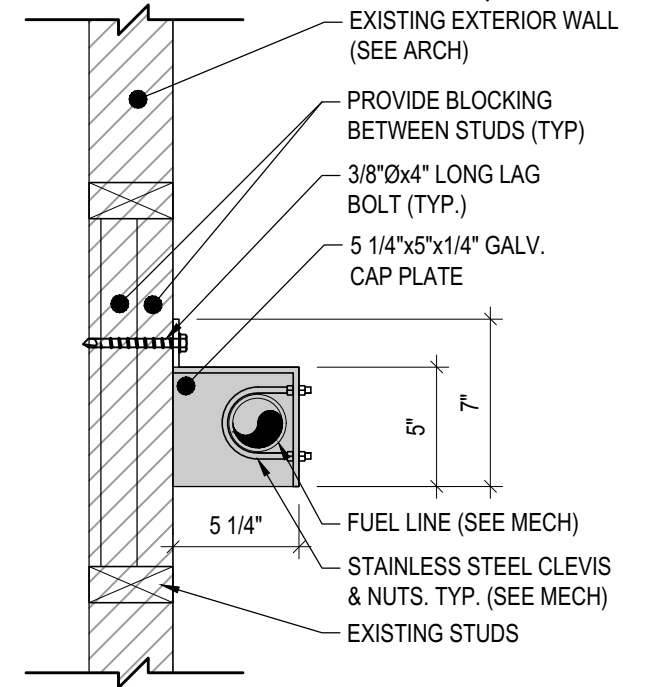
D BASE PLATE DETAILS
S3 SCALE : 1 1/2"=1'-0"



A DETAIL
S3 SCALE : 1 1/2"=1'-0"



B BENT PLATE DETAILS
S3 SCALE : 1 1/2"=1'-0"



C DETAIL
S3 SCALE : 1 1/2"=1'-0"



PROJECT TITLE:
RCMP "V" DIVISION OIL TANK REPLACEMENT

SHEET TITLE:
CONNECTION #1 DETAILS

PROJECT NUMBER:
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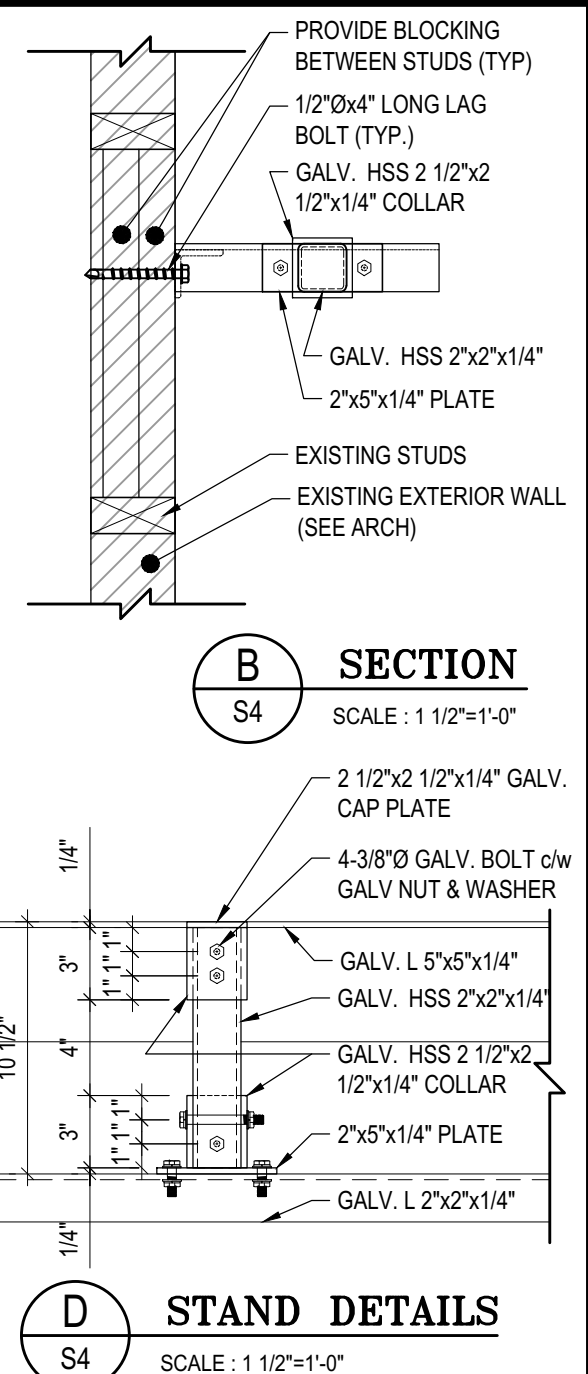
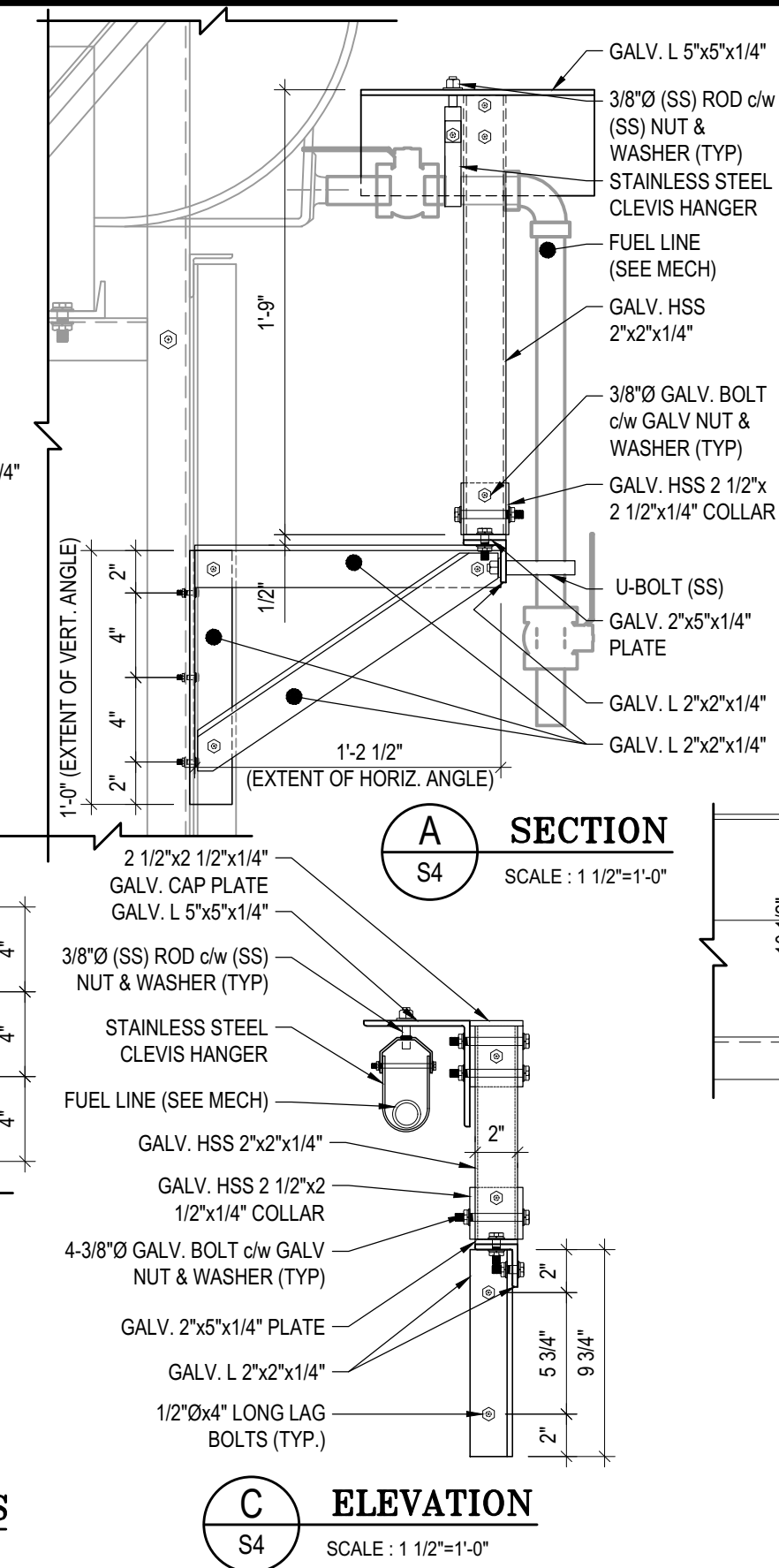
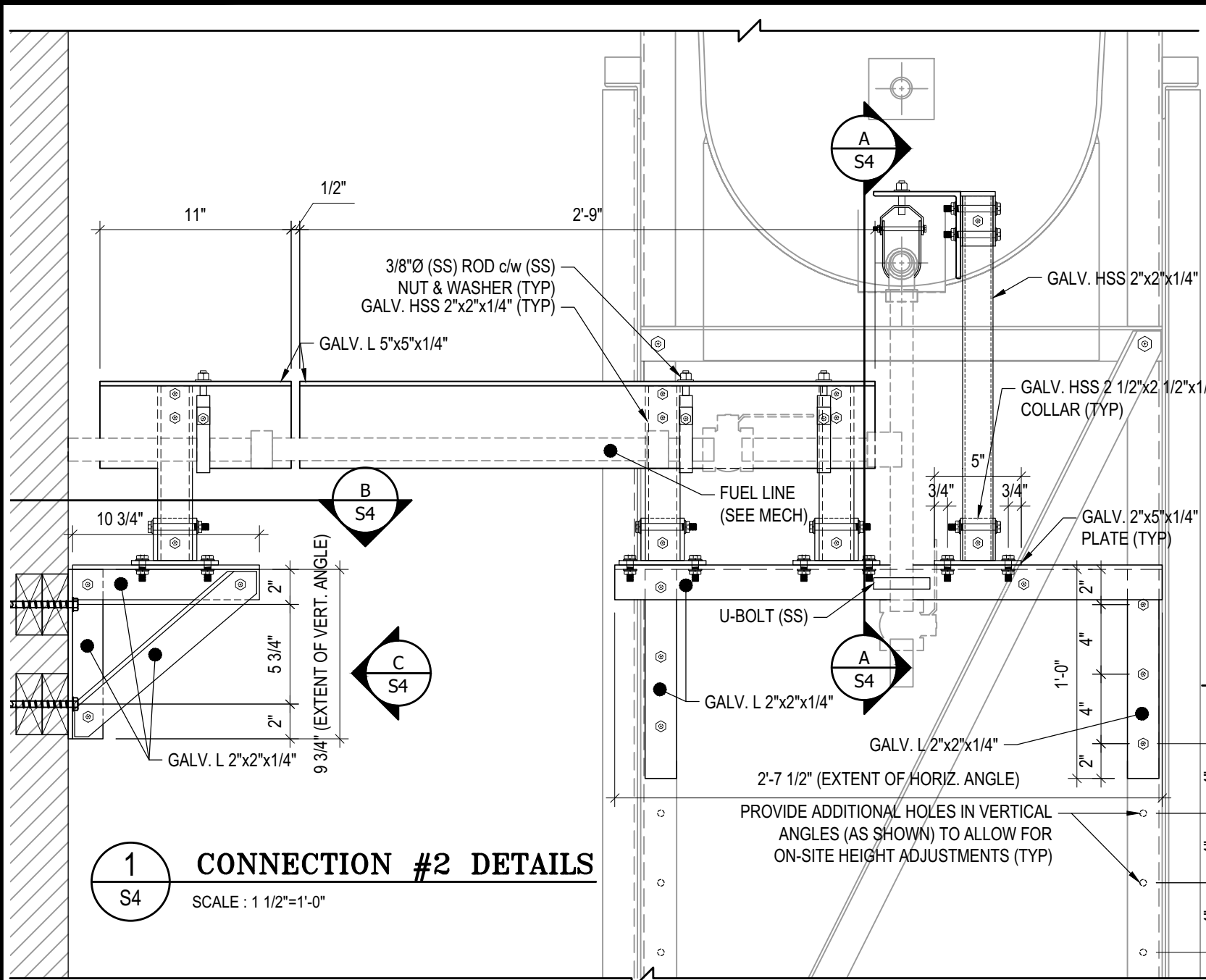
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DATE (YY MM DD):
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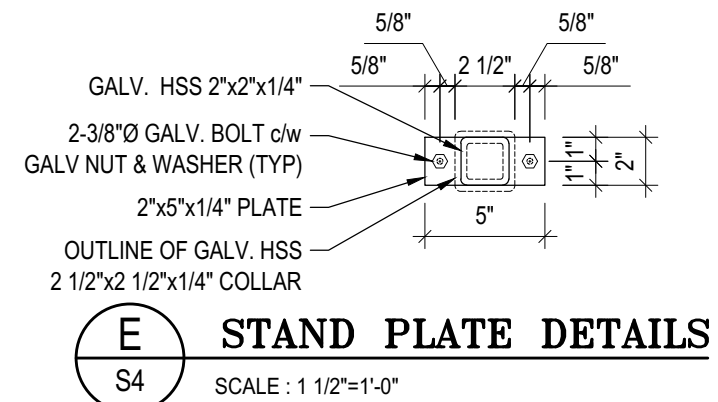
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REVISION NUMBER:
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NOTES:

- ALL STEEL TO BE GALVANIZED (GALV) OR STAINLESS STEEL (SS)
- CONFIRM ALL DIMENSIONS SHOWN WITH MECH. DRAWINGS



PROJECT TITLE:
RCMP "V" DIVISION OIL TANK REPLACEMENT

SHEET TITLE:
CONNECTION #2 DETAILS

PROJECT NUMBER:
17-122-CG-39



03	ISSUED FOR TENDER	17 06 12	RH
02	ISSUED FOR 99% REVIEW	17 05 30	RH
01	ISSUED FOR REVIEW	17 03 31	RH
REV. #	REVISION	DATE (YY MM DD)	REV. BY

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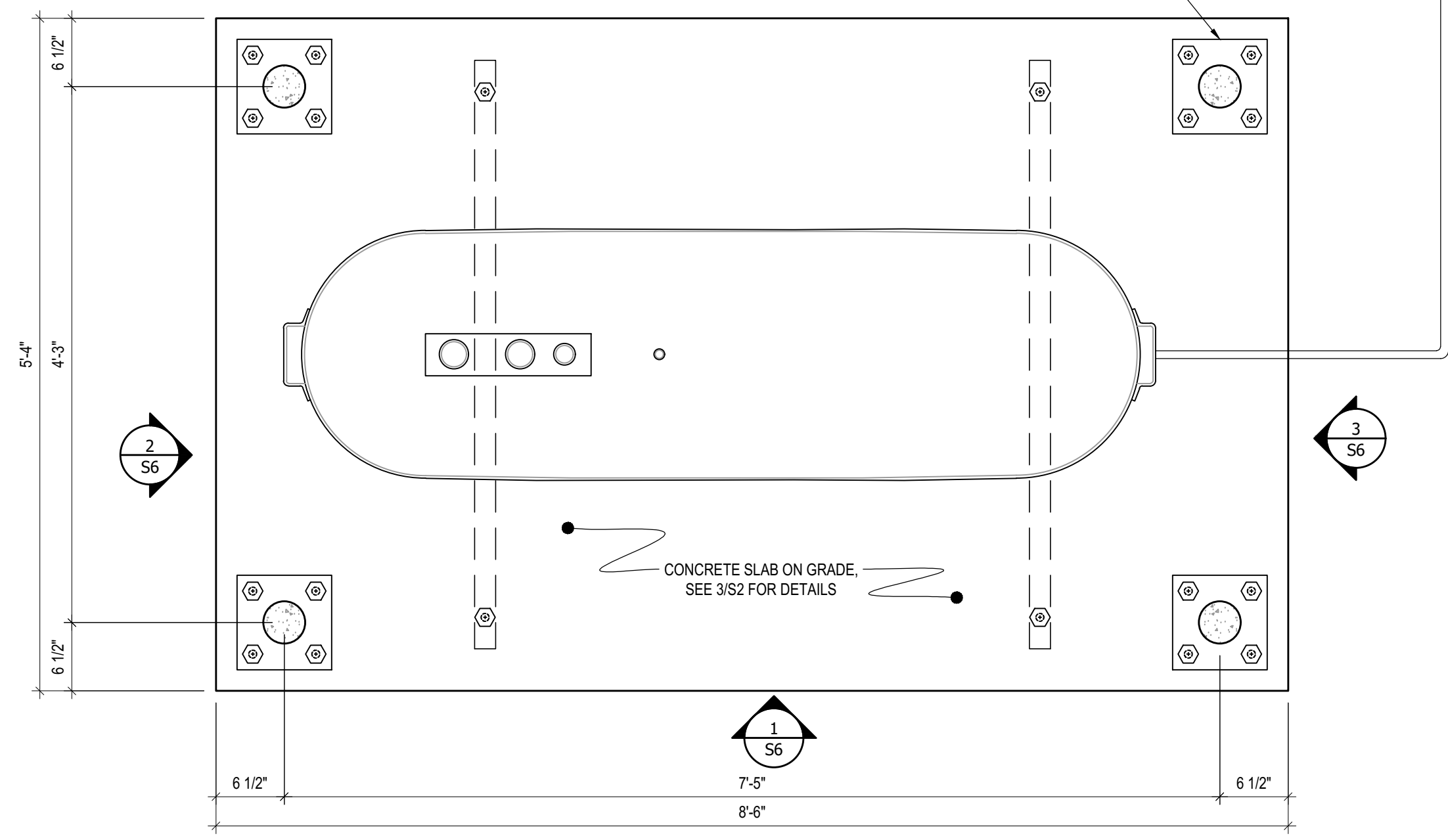
DATE (YY MM DD):
17 06 12

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S4

REVISION NUMBER:
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CONCRETE BOLLARD BASE PLATE. SEE 1/S2 FOR STRUCTURAL DETAILS, SEE MECHANICAL DRAWINGS FOR LOCATION AND NUMBER OF BOLLARDS REQUIRED FOR EACH CONCRETE PAD BASE



1 PLAN VIEW - TANK #1
S5 SCALE : 1"=1'-0"



PROJECT TITLE:
RCMP "V" DIVISION OIL TANK REPLACEMENT
SHEET TITLE:
TANK #1 - PLAN VIEW
PROJECT NUMBER:
17-122-CG-39

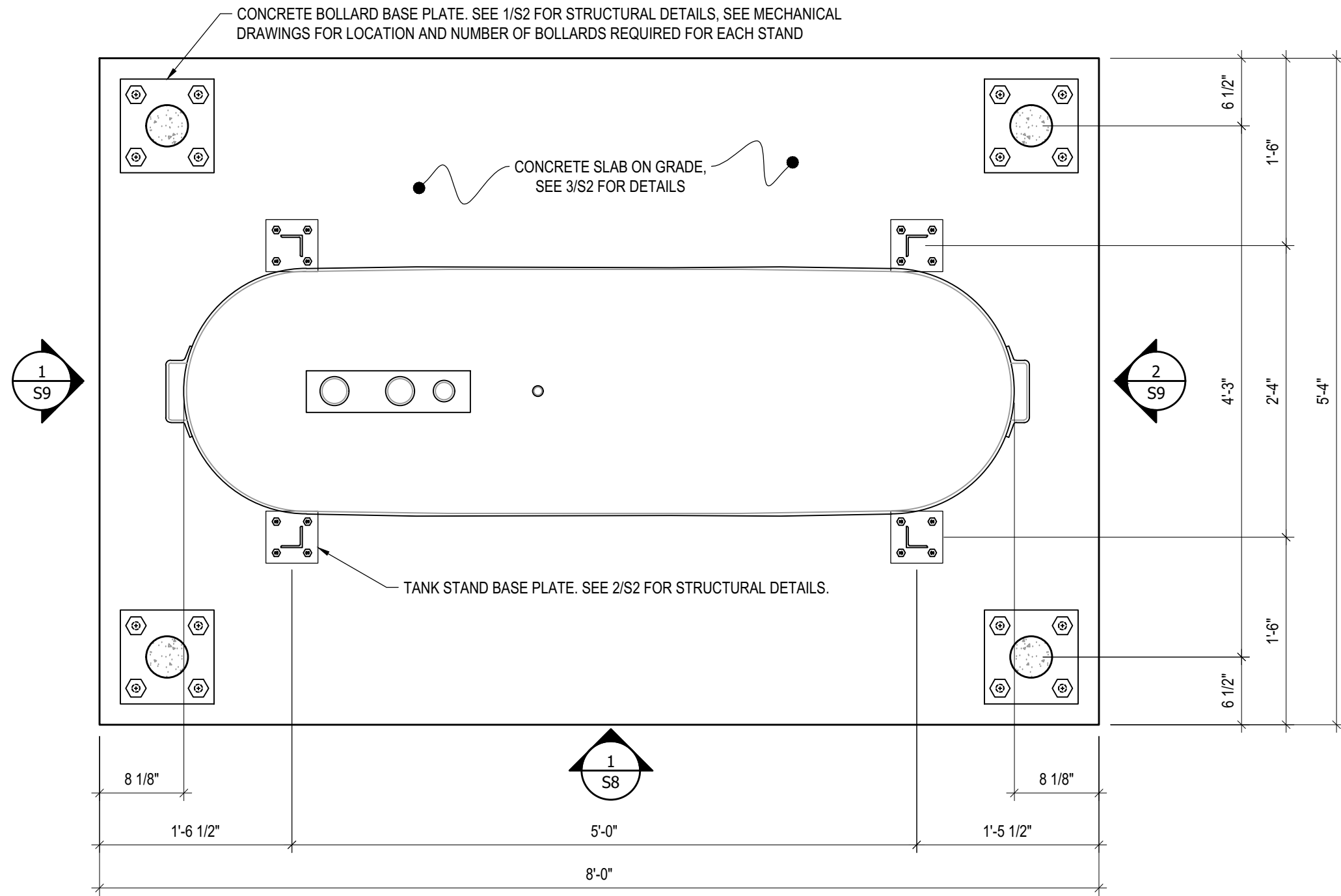


REV. #	REVISION	DATE (YY MM DD)	REV. BY
03	ISSUED FOR TENDER	17 06 12	RH
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REV. #	REVISION	DATE (YY MM DD)	REV. BY

SCALE:
AS NOTED
DATE (YY MM DD):
17 06 12

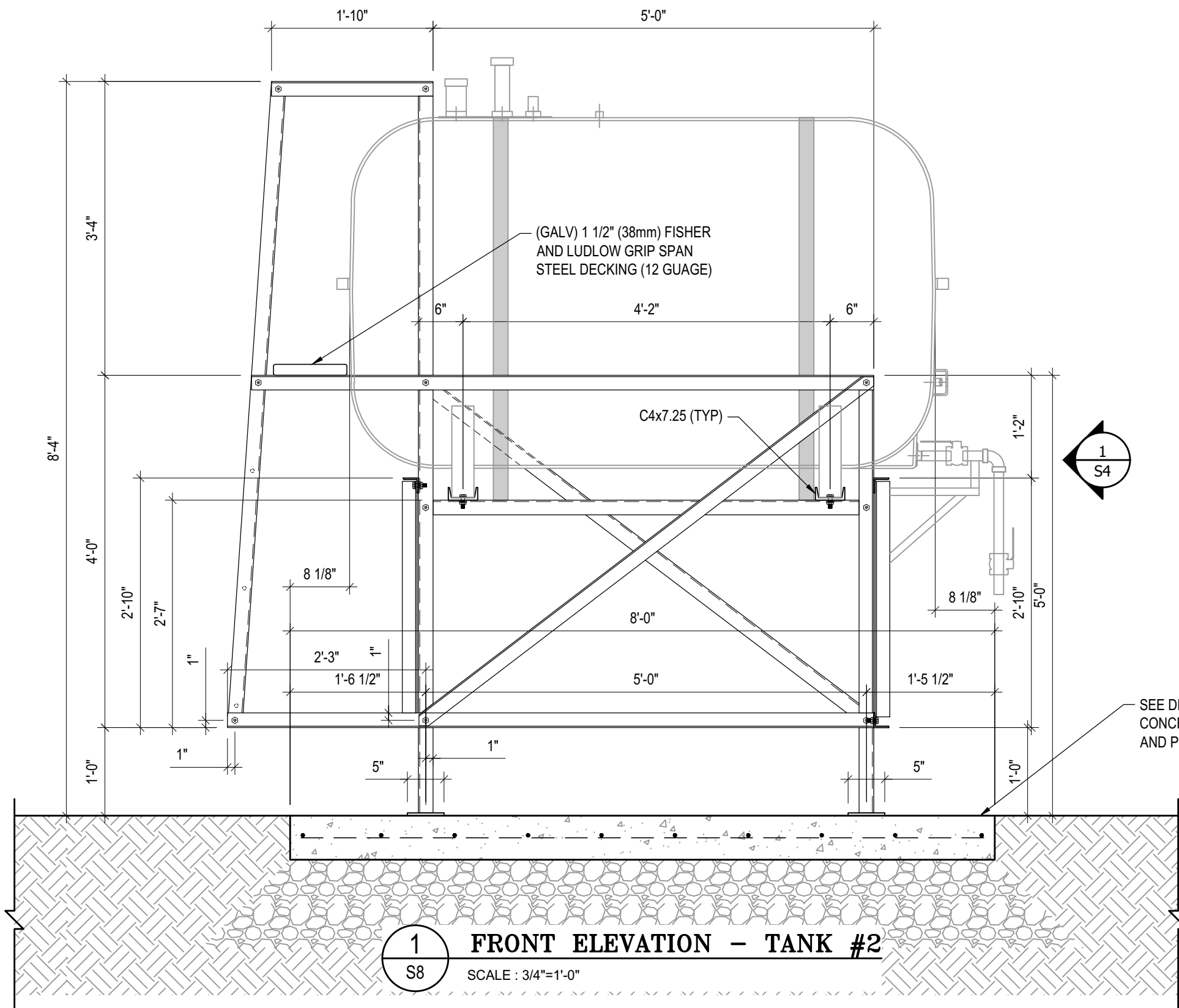
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S5
REVISION NUMBER:
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1 PLAN VIEW - TANK #2
 S7 SCALE : 1"=1'-0"



- NOTES:**
- ALL STEEL TO BE GALVANIZED (GALV) OR STAINLESS STEEL (SS)
 - ALL ANGLES SHOWN ARE L2"x2"x3/16" (U/N/O)
 - ALL BOLTS SHOWN ARE 1/2"Øx2" LONG (U/N/O)
 - CONFIRM ALL DIMENSIONS SHOWN WITH MECH. DRAWINGS



1
S8
FRONT ELEVATION - TANK #2
SCALE : 3/4"=1'-0"



PROJECT TITLE:
RCMP "V" DIVISION OIL TANK REPLACEMENT

SHEET TITLE:
TANK #2 - ELEVATIONS

PROJECT NUMBER:
17-122-CG-39



03	ISSUED FOR TENDER	17 06 12	RH
02	ISSUED FOR 99% REVIEW	17 05 30	RH
01	ISSUED FOR REVIEW	17 03 31	RH
REV. #	REVISION	DATE (YY MM DD)	REV. BY

REV. #	REVISION	DATE (YY MM DD)	REV. BY
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SCALE:
AS NOTED

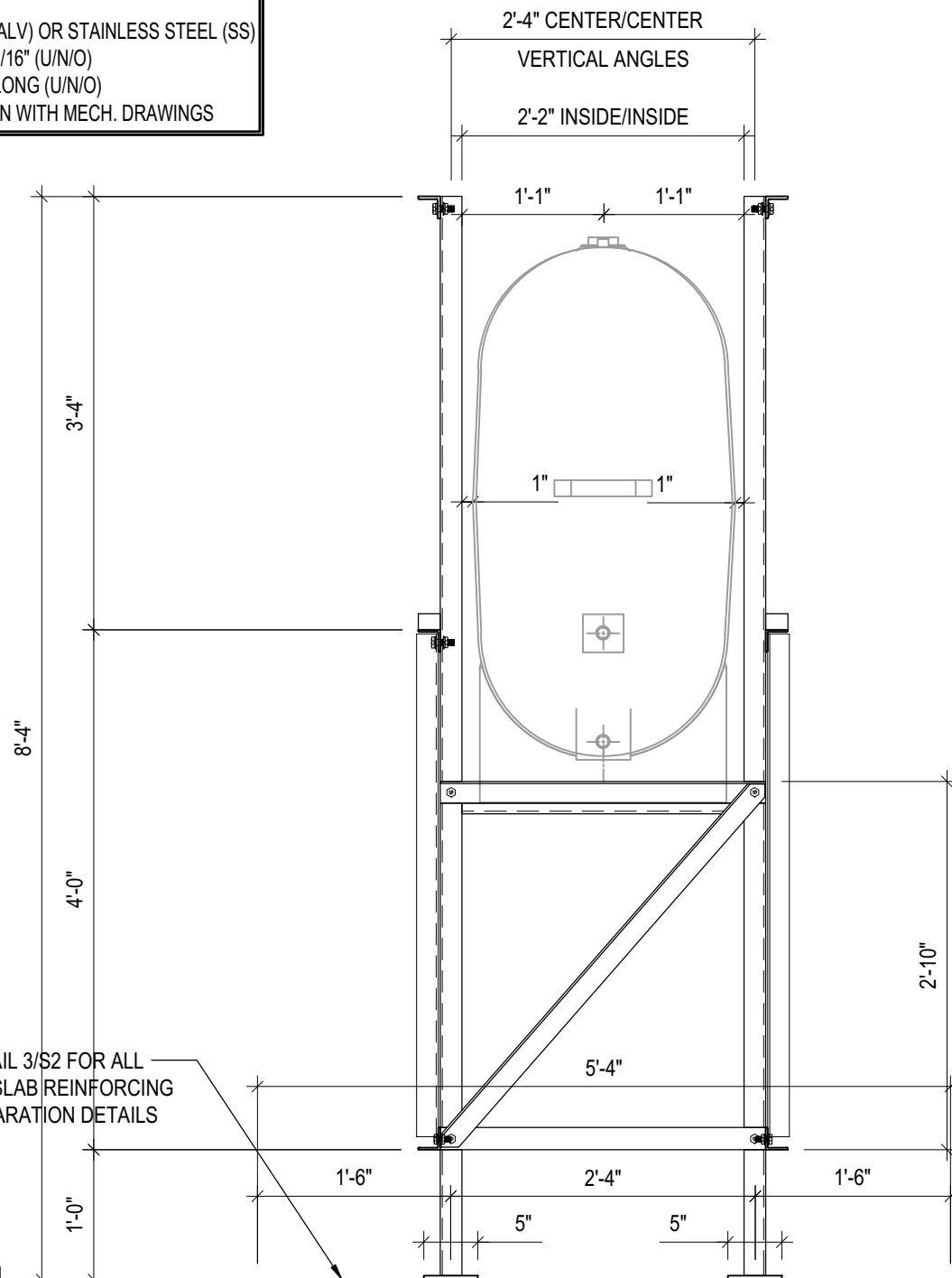
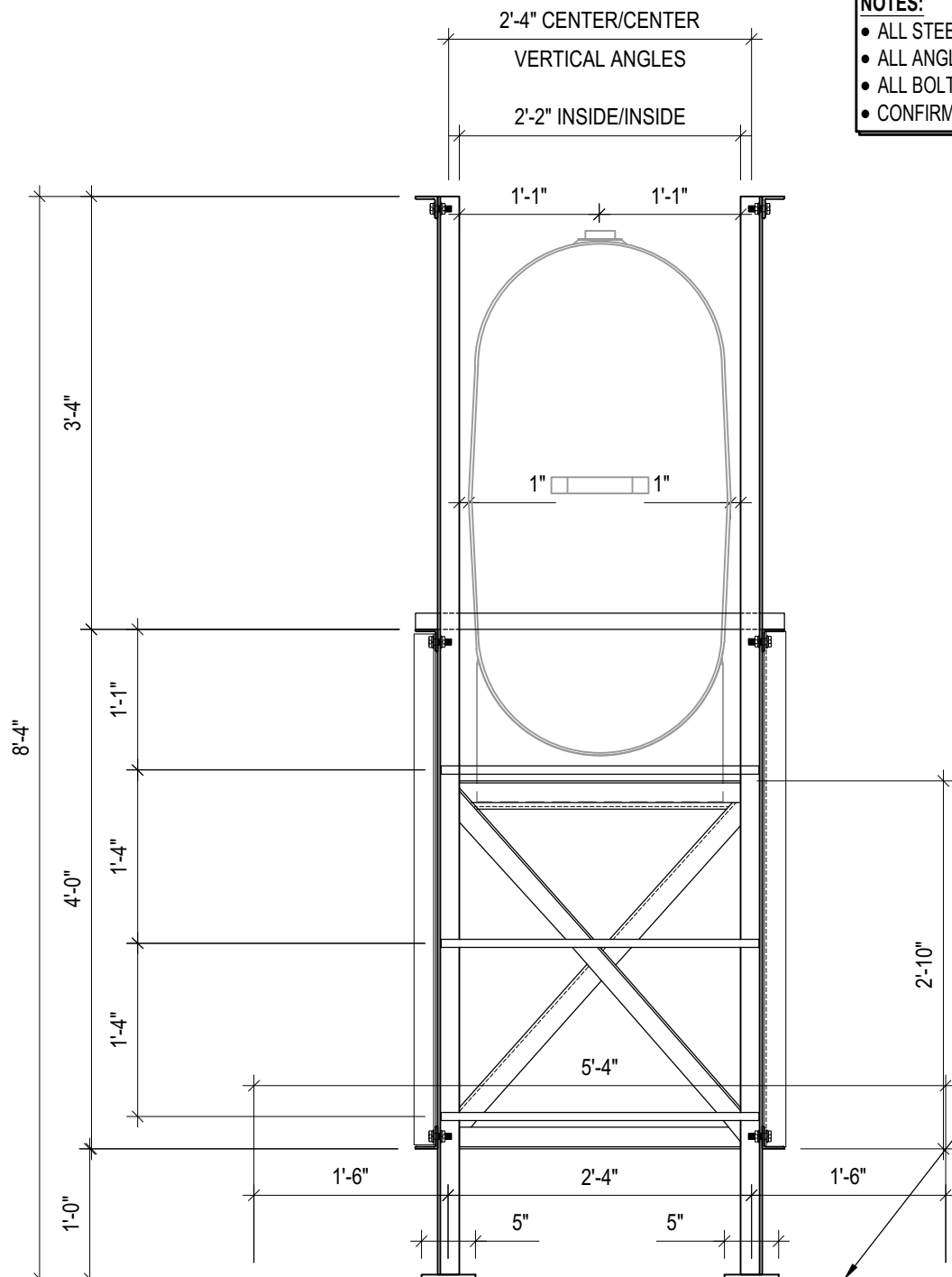
DATE (YY MM DD):
17 06 12

DRAWING NUMBER:
S8

REVISION NUMBER:
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NOTES:

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- ALL ANGLES SHOWN ARE L2"x2"x3/16" (U/N/O)
- ALL BOLTS SHOWN ARE 1/2"Øx2" LONG (U/N/O)
- CONFIRM ALL DIMENSIONS SHOWN WITH MECH. DRAWINGS



SEE DETAIL 3/S2 FOR ALL CONCRETE SLAB REINFORCING AND PREPARATION DETAILS

1 LEFT ELEVATION - TANK #2
S9 SCALE : 3/4"=1'-0"

2 RIGHT ELEVATION - TANK #2
S9 SCALE : 3/4"=1'-0"



PROJECT TITLE:
RCMP "V" DIVISION OIL TANK REPLACEMENT
SHEET TITLE:
TANK #2 - ELEVATIONS
PROJECT NUMBER:
17-122-CG-39

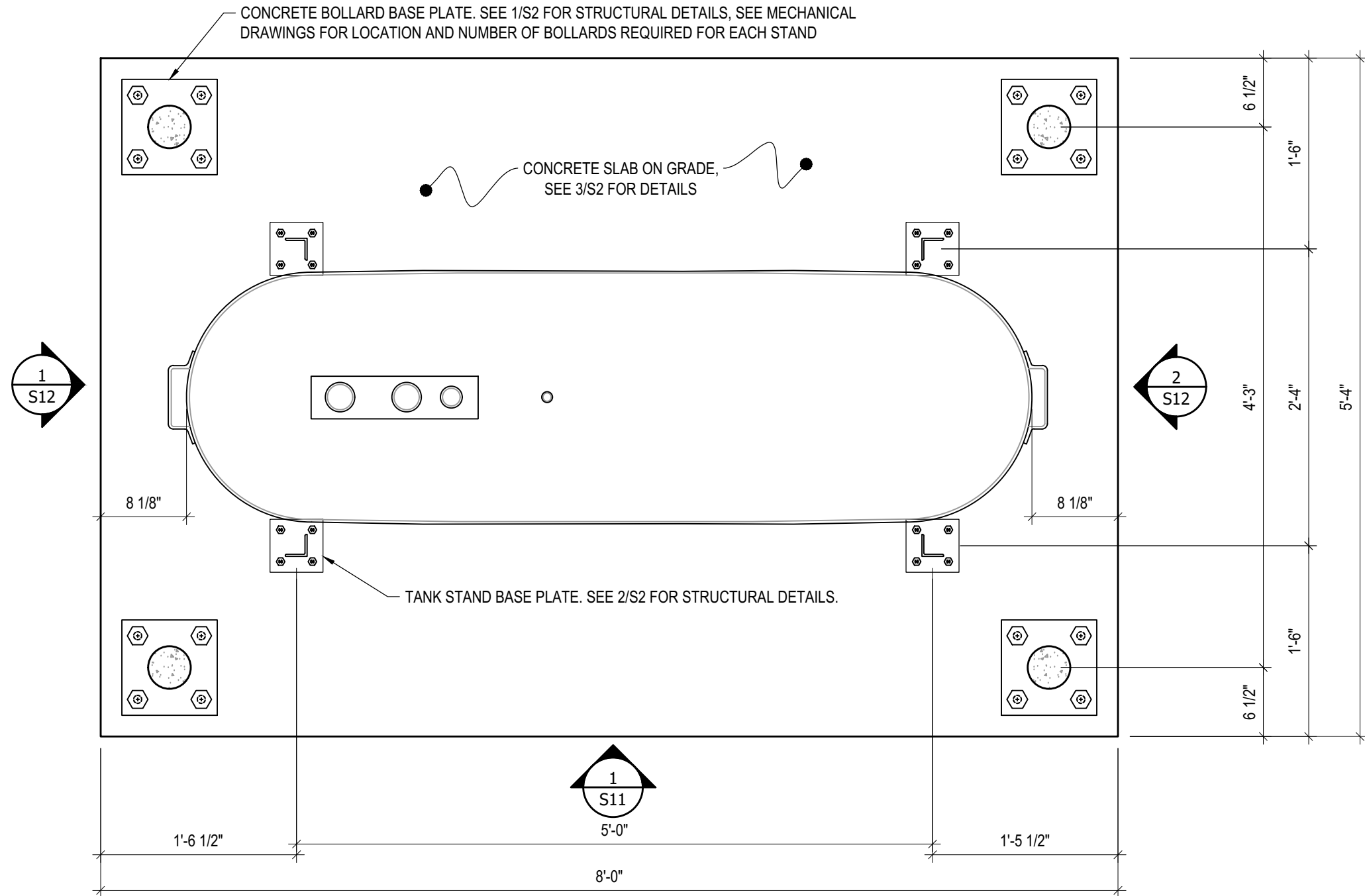


03	ISSUED FOR TENDER	17 06 12	RH
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REV. #	REVISION	DATE (YY MM DD)	REV. BY

REV. #	REVISION	DATE (YY MM DD)	REV. BY
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SCALE:
AS NOTED
DATE (YY MM DD):
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DRAWING NUMBER:
S9
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1 PLAN VIEW - TANK #3
 S10 SCALE : 1"=1'-0"



PROJECT TITLE:
RCMP "V" DIVISION OIL TANK REPLACEMENT

SHEET TITLE:
TANK #3 - PLAN VIEW

PROJECT NUMBER:
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REV. #	REVISION	DATE (YY MM DD)	REV. BY
03	ISSUED FOR TENDER	17 06 12	RH
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REV. #	REVISION	DATE (YY MM DD)	REV. BY
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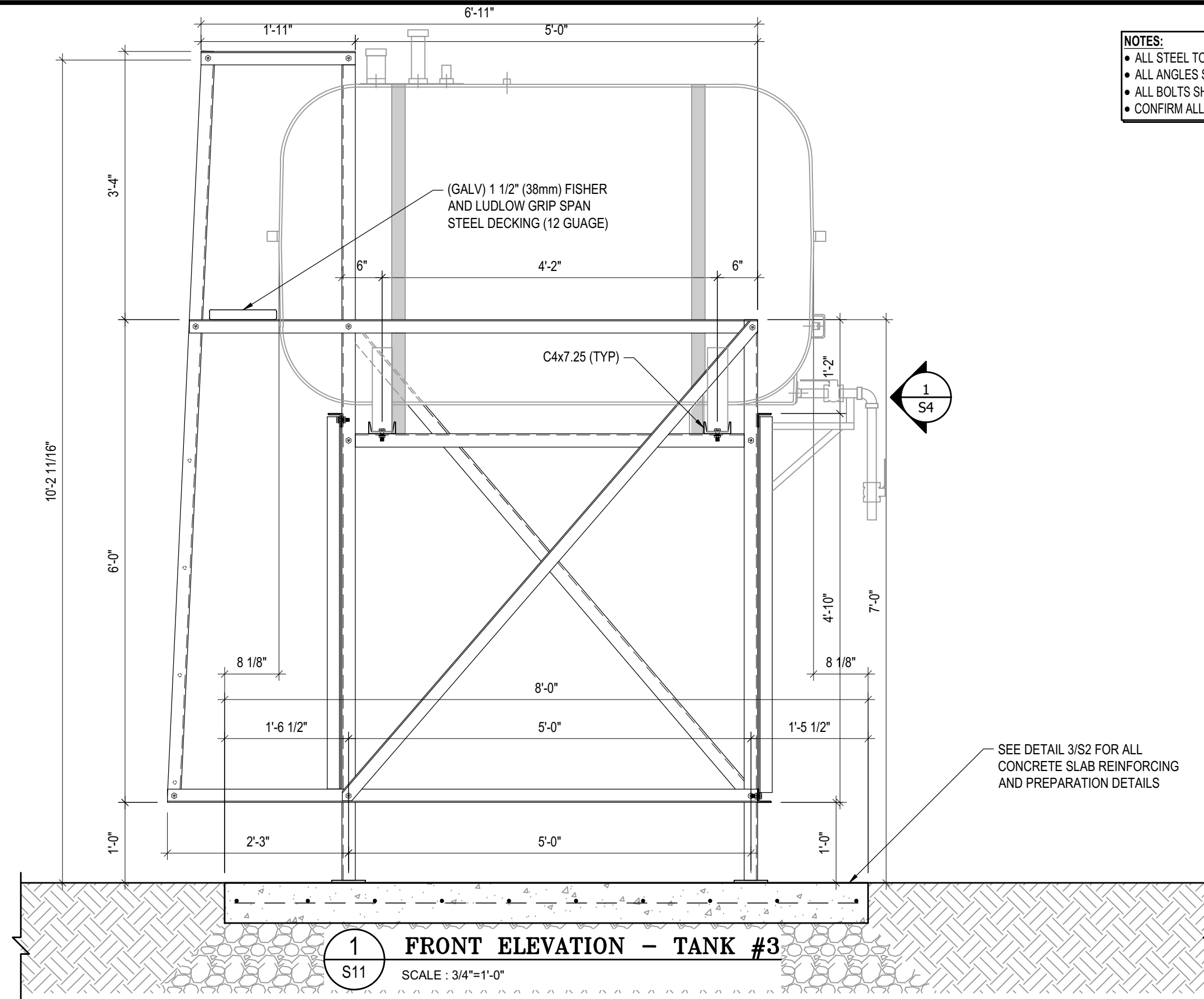
SCALE:
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DATE (YY MM DD):
17 06 12

DRAWING NUMBER:

S10

REVISION NUMBER:
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- NOTES:**
- ALL STEEL TO BE GALVANIZED (GALV) OR STAINLESS STEEL (SS)
 - ALL ANGLES SHOWN ARE L2"x2"x3/16" (U/N/O)
 - ALL BOLTS SHOWN ARE 1/2"Øx2" LONG (U/N/O)
 - CONFIRM ALL DIMENSIONS SHOWN WITH MECH. DRAWINGS



PROJECT TITLE:
RCMP "V" DIVISION OIL TANK REPLACEMENT

SHEET TITLE:
TANK #3 - ELEVATIONS

PROJECT NUMBER:
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03	ISSUED FOR TENDER	17 06 12	RH
02	ISSUED FOR 99% REVIEW	17 05 30	RH
01	ISSUED FOR REVIEW	17 03 31	RH
REV. #	REVISION	DATE (YY MM DD)	REV. BY

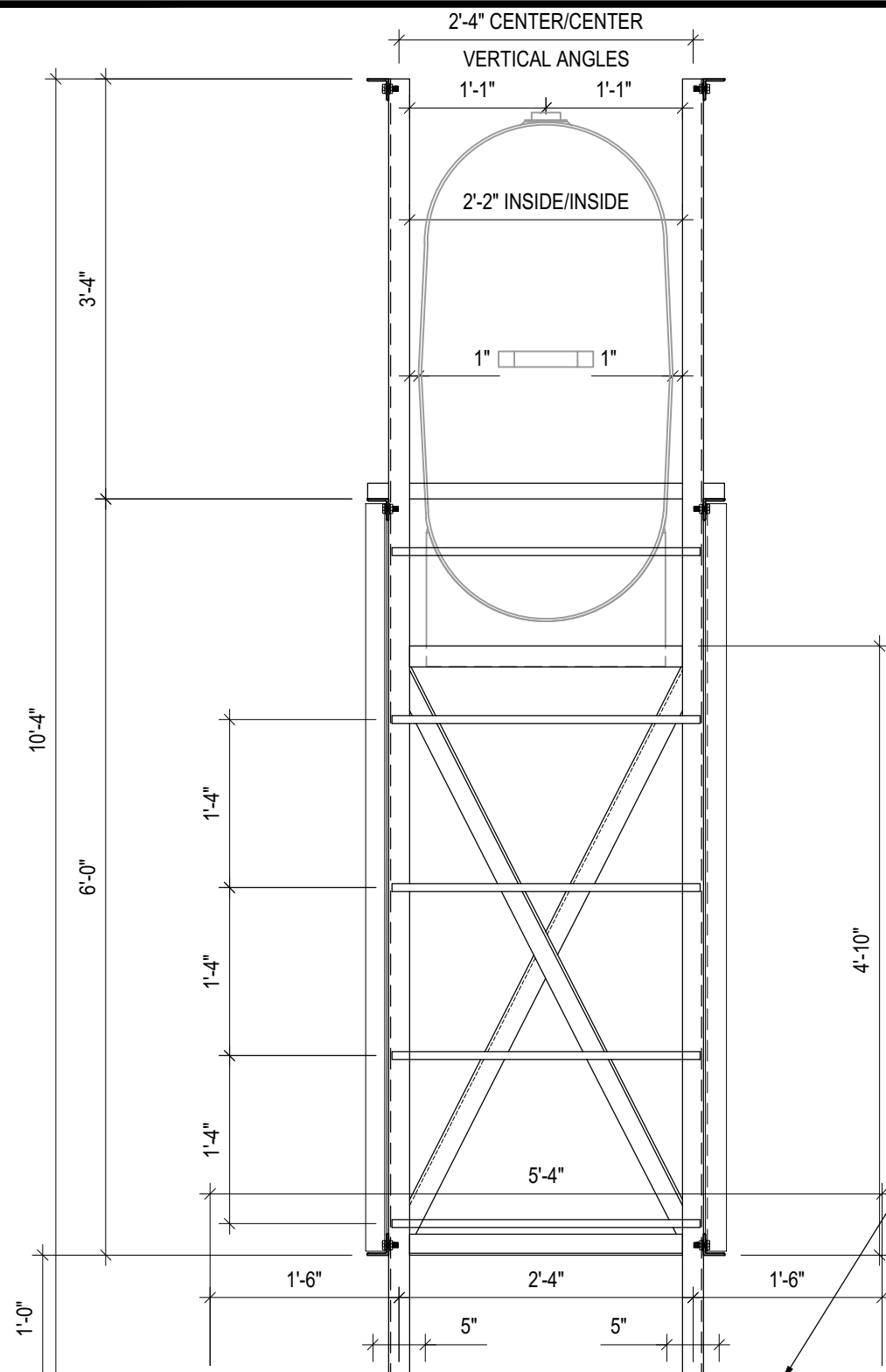
REV. #	REVISION	DATE (YY MM DD)	REV. BY
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SCALE:
AS NOTED

DATE (YY MM DD):
17 06 12

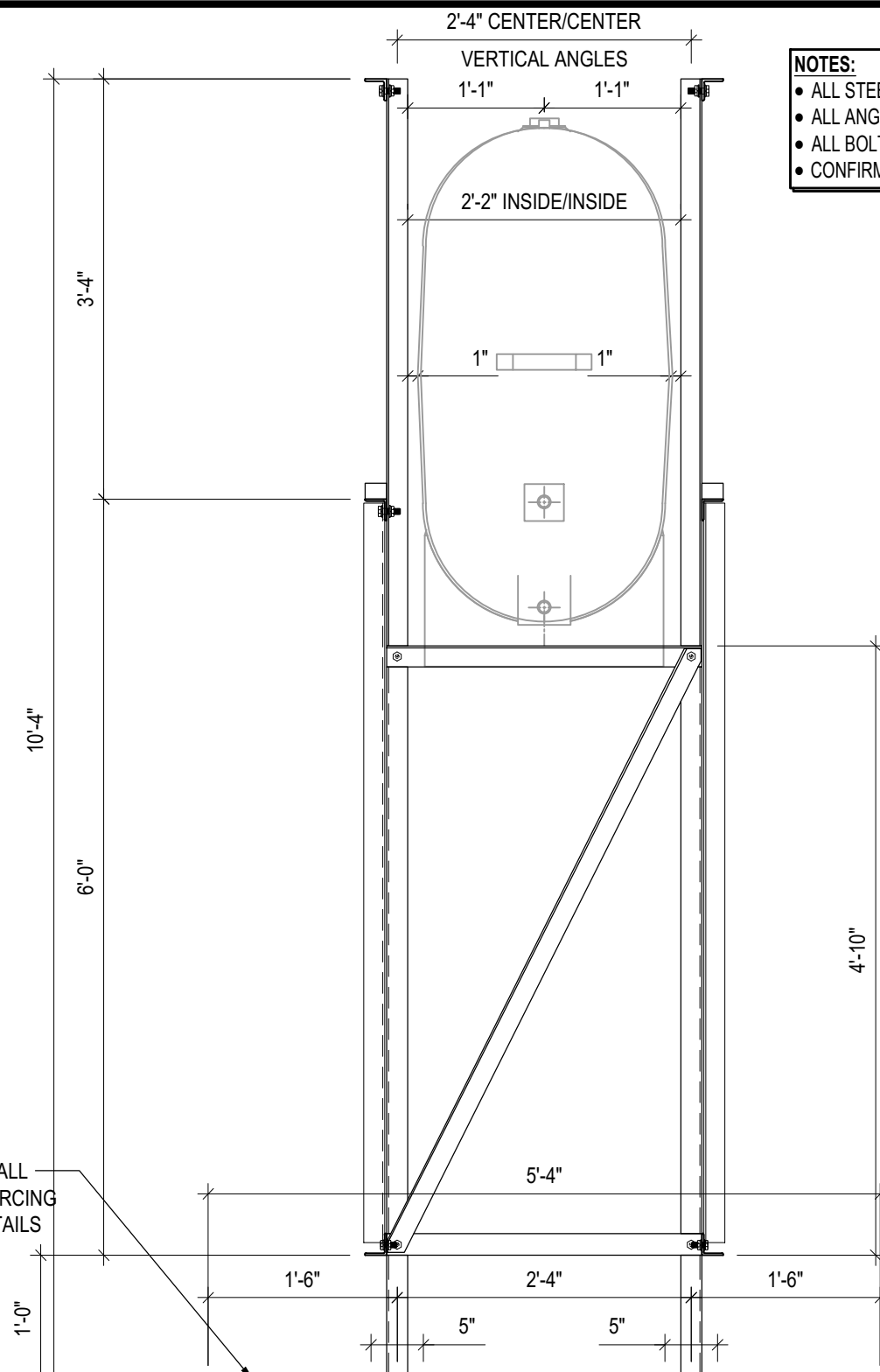
DRAWING NUMBER:
S11

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1 LEFT ELEVATION - TANK #3
S12 SCALE : 3/4"=1'-0"

SEE DETAIL 3/S2 FOR ALL
CONCRETE SLAB REINFORCING
AND PREPARATION DETAILS



2 RIGHT ELEVATION - TANK #3
S12 SCALE : 3/4"=1'-0"

- NOTES:**
- ALL STEEL TO BE GALVANIZED (GALV) OR STAINLESS STEEL (SS)
 - ALL ANGLES SHOWN ARE L2"x2"x3/16" (U/N/O)
 - ALL BOLTS SHOWN ARE 1/2"Øx2" LONG (U/N/O)
 - CONFIRM ALL DIMENSIONS SHOWN WITH MECH. DRAWINGS



PROJECT TITLE:
RCMP "V" DIVISION OIL TANK REPLACEMENT
SHEET TITLE:
TANK #3 - ELEVATIONS
PROJECT NUMBER:
17-122-CG-39



REV. #	REVISION	DATE (YY MM DD)	REV. BY
03	ISSUED FOR TENDER	17 06 12	RH
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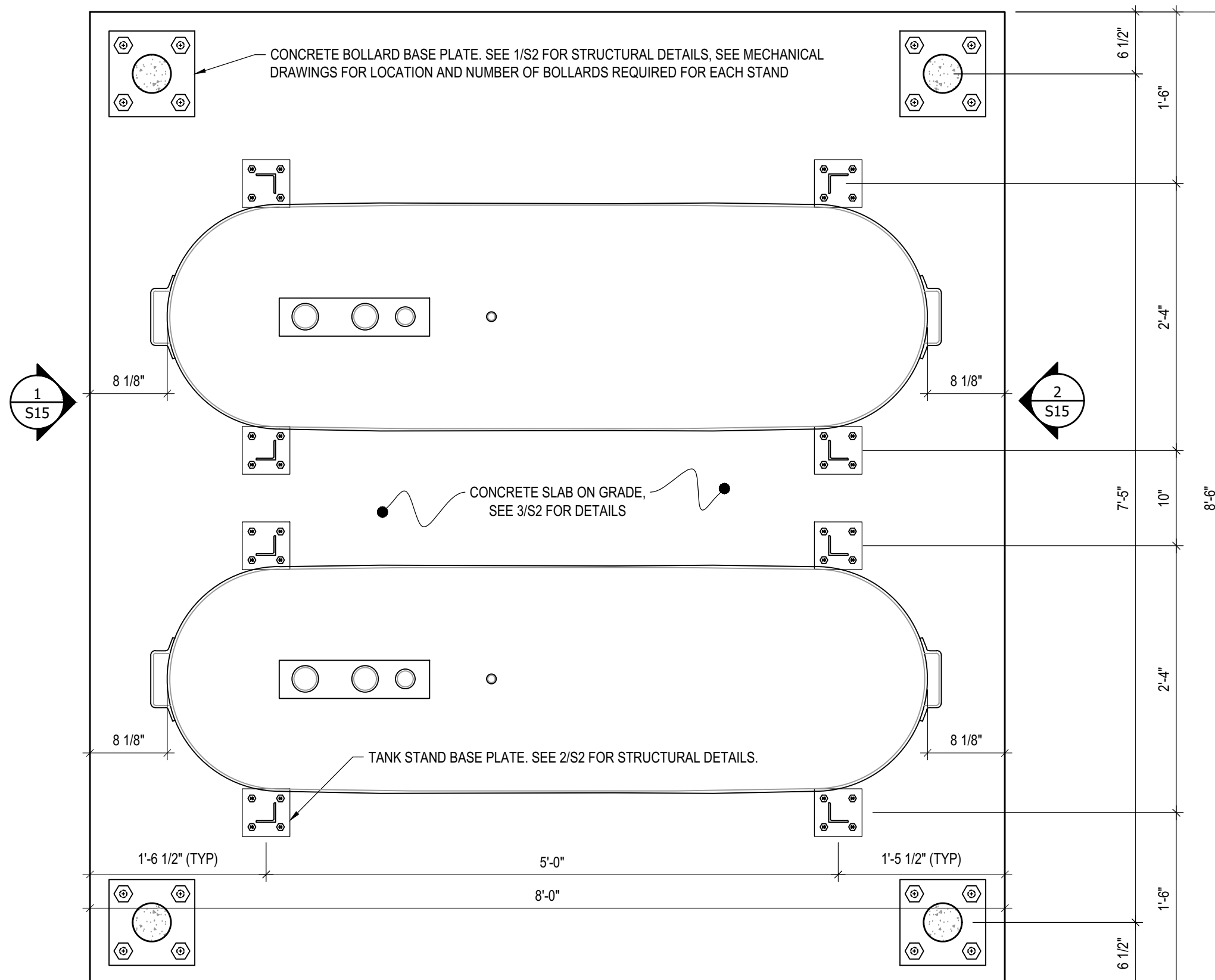
REV. # | REVISION | DATE (YY MM DD) | REV. BY

SCALE:
AS NOTED
DATE (YY MM DD):
17 06 12

DRAWING NUMBER:

S12

REVISION NUMBER:
00



1 PLAN VIEW - TANK #4
 S13 SCALE : 1"=1'-0" 1 S14



PROJECT TITLE:
RCMP "V" DIVISION OIL TANK REPLACEMENT
 SHEET TITLE:
TANK #4 - PLAN VIEW
 PROJECT NUMBER:
17-122-CG-39



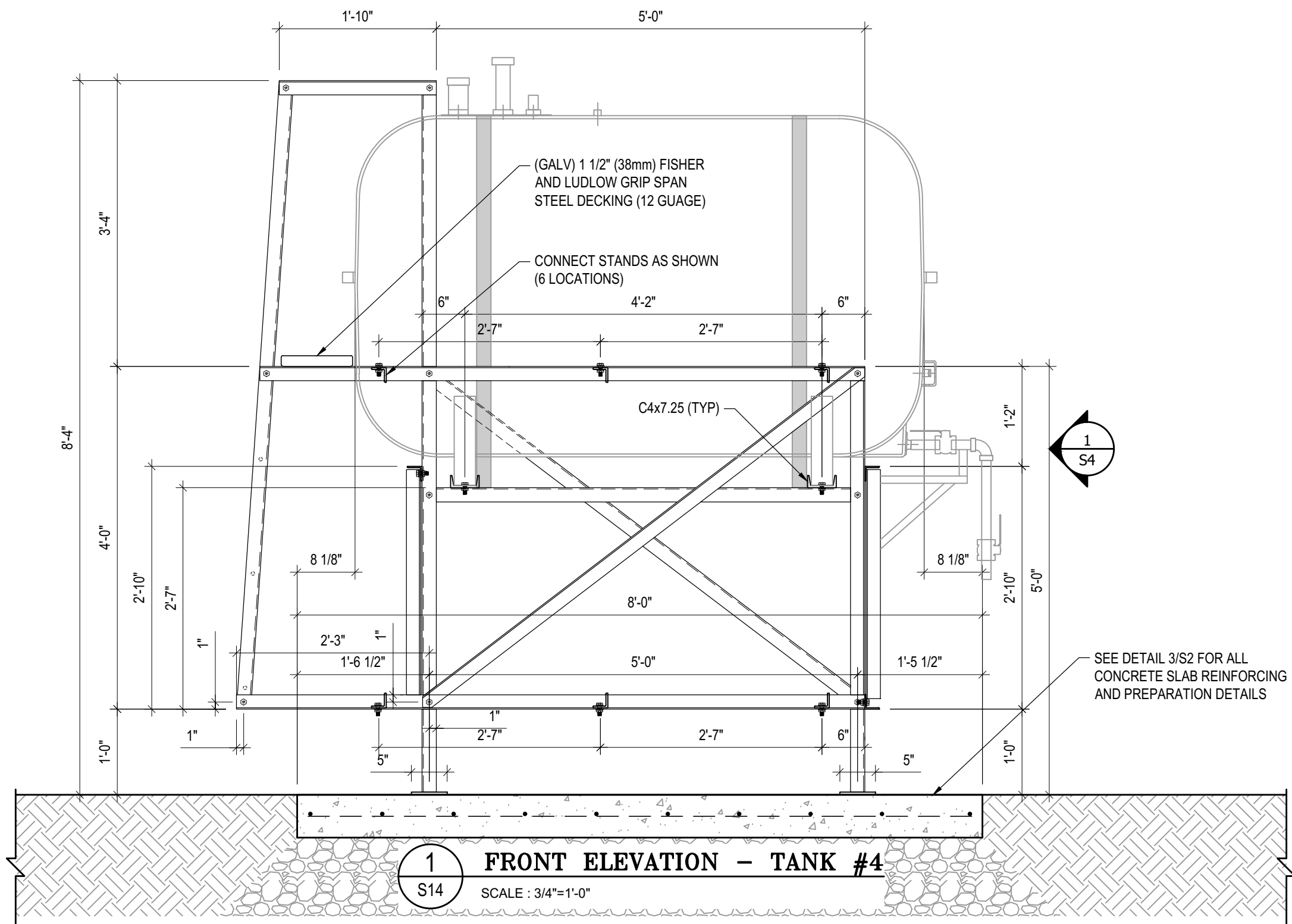
03	ISSUED FOR TENDER	17 06 12	RH
02	ISSUED FOR 99% REVIEW	17 05 30	RH
01	ISSUED FOR REVIEW	17 03 31	RH
REV. #	REVISION	DATE (YY MM DD)	REV. BY

REV. #	REVISION	DATE (YY MM DD)	REV. BY
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SCALE:
AS NOTED
 DATE (YY MM DD):
17 06 12

DRAWING NUMBER:
S13
 REVISION NUMBER:
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- NOTES:**
- ALL STEEL TO BE GALVANIZED (GALV) OR STAINLESS STEEL (SS)
 - ALL ANGLES SHOWN ARE L2"x2"x3/16" (U/N/O)
 - ALL BOLTS SHOWN ARE 1/2"Øx2" LONG (U/N/O)
 - CONFIRM ALL DIMENSIONS SHOWN WITH MECH. DRAWINGS



PROJECT TITLE:
RCMP "V" DIVISION OIL TANK REPLACEMENT

SHEET TITLE:
TANK #4 - ELEVATIONS

PROJECT NUMBER:
17-122-CG-39



03	ISSUED FOR TENDER	17 06 12	RH
02	ISSUED FOR 99% REVIEW	17 05 30	RH
01	ISSUED FOR REVIEW	17 03 31	RH
REV. #	REVISION	DATE (YY MM DD)	REV. BY

REV. #	REVISION	DATE (YY MM DD)	REV. BY
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SCALE:
AS NOTED

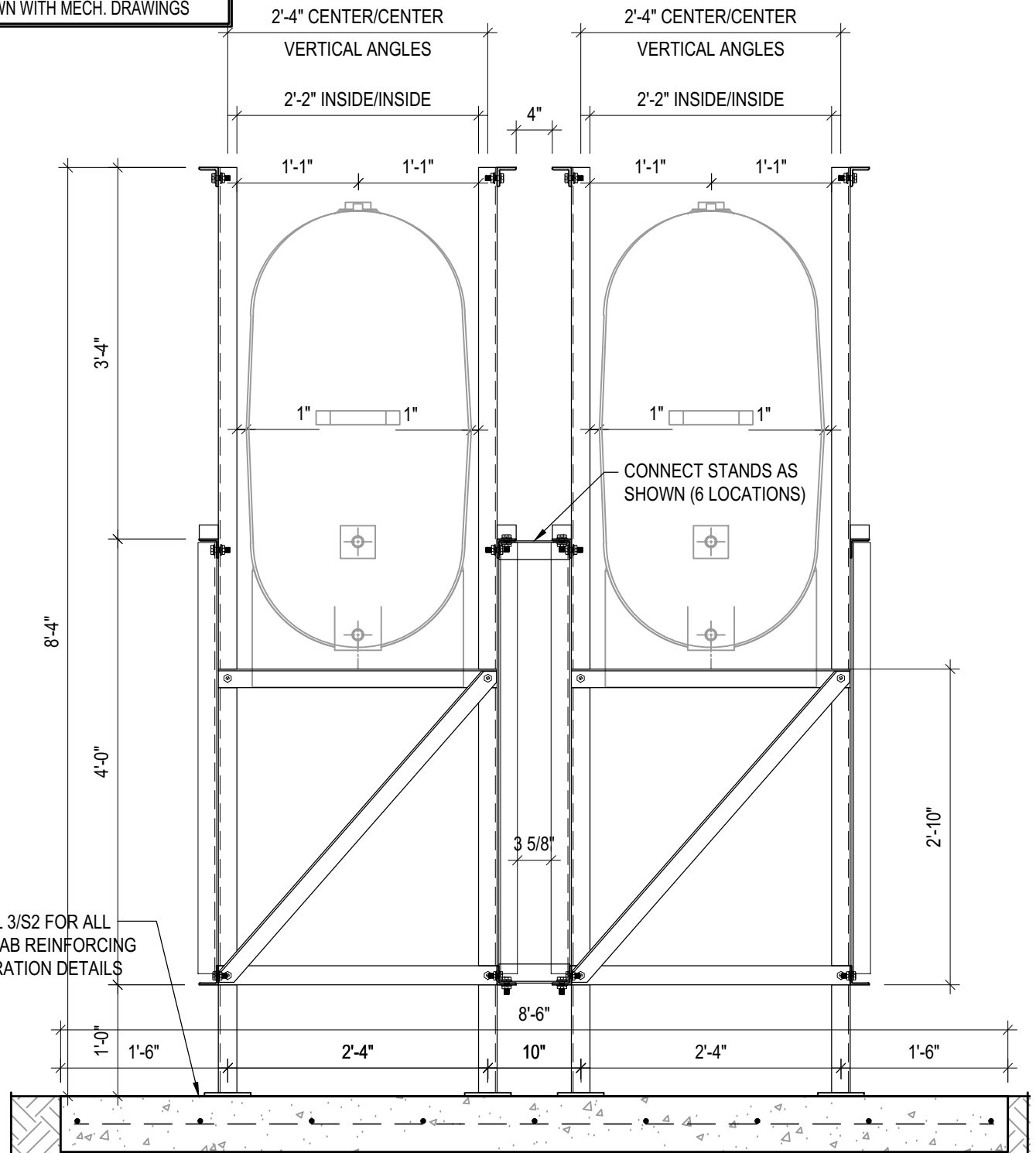
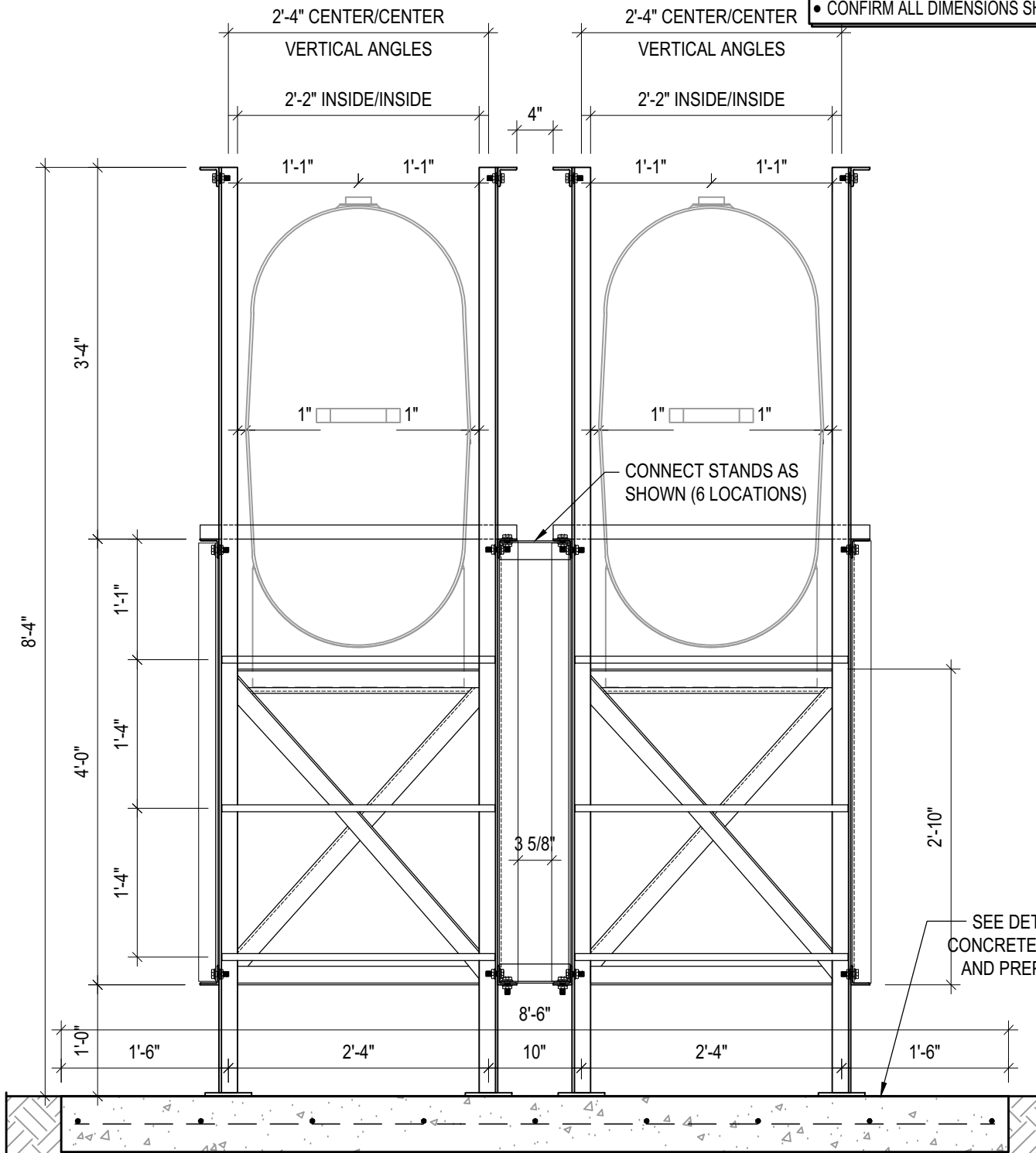
DATE (YY MM DD):
17 06 12

DRAWING NUMBER:
S14

REVISION NUMBER:
00

NOTES:

- ALL STEEL TO BE GALVANIZED (GALV) OR STAINLESS STEEL (SS)
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- ALL BOLTS SHOWN ARE 1/2"Øx2" LONG (U/N/O)
- CONFIRM ALL DIMENSIONS SHOWN WITH MECH. DRAWINGS



SEE DETAIL 3/S2 FOR ALL CONCRETE SLAB REINFORCING AND PREPARATION DETAILS

1 LEFT ELEVATION - TANK #4
S15 SCALE : 3/4"=1'-0"

2 RIGHT ELEVATION - TANK #4
S15 SCALE : 3/4"=1'-0"



PROJECT TITLE:
RCMP "V" DIVISION OIL TANK REPLACEMENT
SHEET TITLE:
TANK #4 - ELEVATIONS
PROJECT NUMBER:
17-122-CG-39

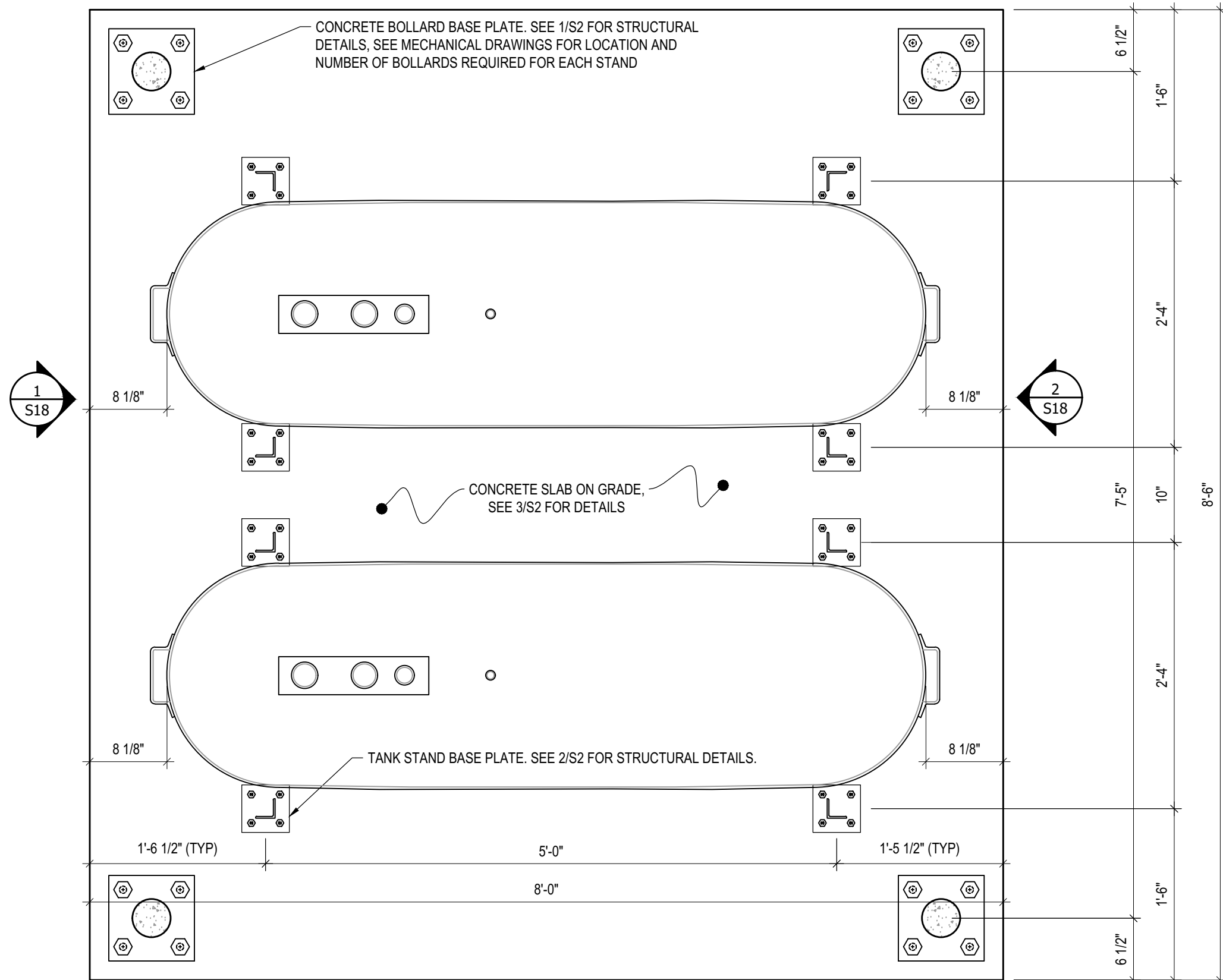


03	ISSUED FOR TENDER	17 06 12	RH
02	ISSUED FOR 99% REVIEW	17 05 30	RH
01	ISSUED FOR REVIEW	17 03 31	RH
REV. #	REVISION	DATE (YY MM DD)	REV. BY

REV. #	REVISION	DATE (YY MM DD)	REV. BY
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SCALE:
AS NOTED
DATE (YY MM DD):
17 06 12

DRAWING NUMBER:
S15
REVISION NUMBER:
00



1 PLAN VIEW - TANK #5
 S16 SCALE : 1"=1'-0"
 1 S17



PROJECT TITLE:
 RCMP "V" DIVISION OIL TANK REPLACEMENT
 SHEET TITLE:
 TANK #5 - PLAN VIEW
 PROJECT NUMBER:
 17-122-CG-39

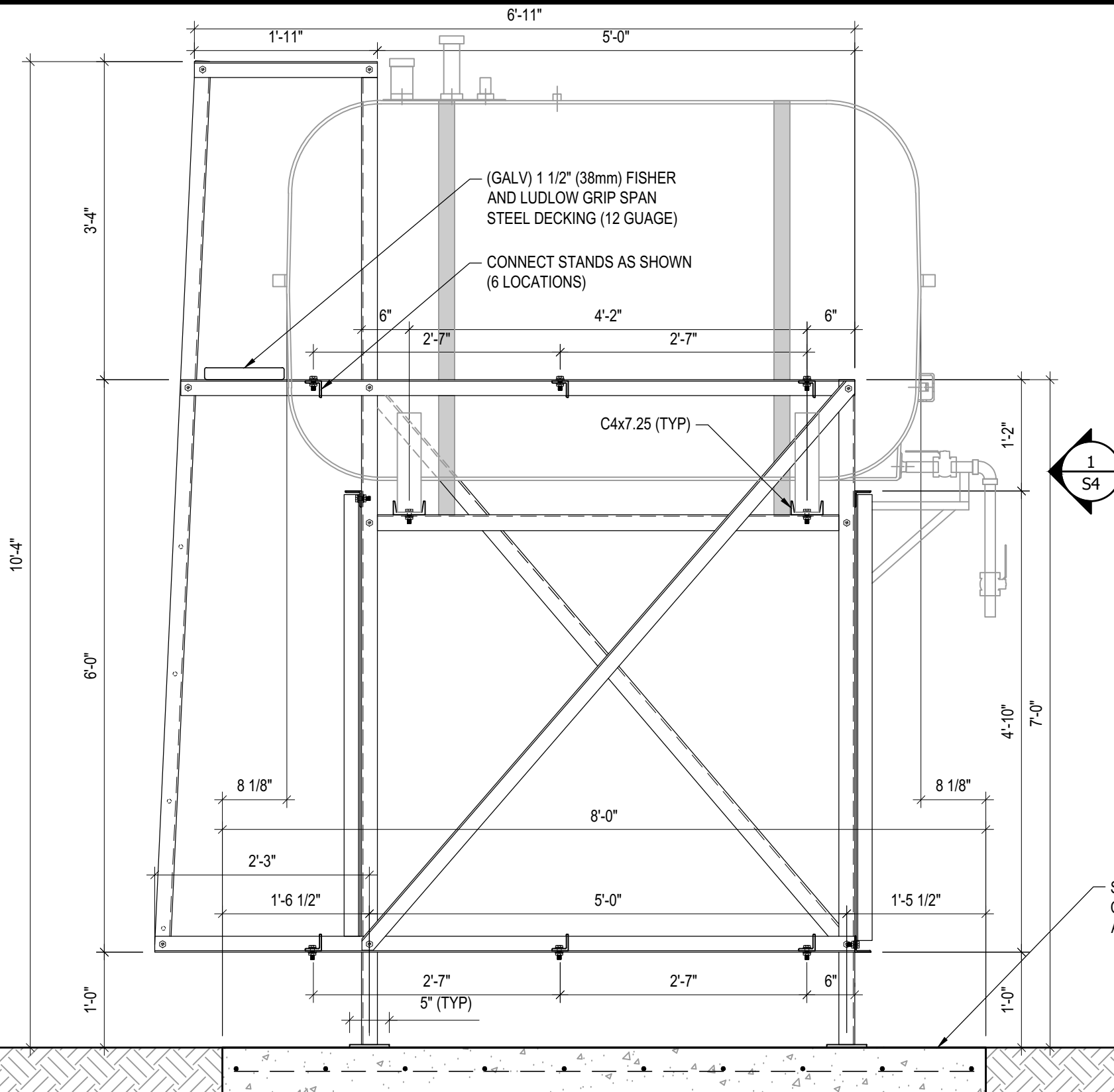


REV. #	REVISION	DATE (YY MM DD)	REV. BY
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02	ISSUED FOR 99% REVIEW	17 05 30	RH
01	ISSUED FOR REVIEW	17 03 31	RH

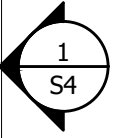
REV. #	REVISION	DATE (YY MM DD)	REV. BY

SCALE:
 AS NOTED
 DATE (YY MM DD):
 17 06 12

DRAWING NUMBER:
S16
 REVISION NUMBER:
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- NOTES:**
- ALL STEEL TO BE GALVANIZED (GALV) OR STAINLESS STEEL (SS)
 - ALL ANGLES SHOWN ARE L2"x2"x3/16" (U/N/O)
 - ALL BOLTS SHOWN ARE 1/2"Øx2" LONG (U/N/O)
 - CONFIRM ALL DIMENSIONS SHOWN WITH MECH. DRAWINGS



SEE DETAIL 3/S2 FOR ALL CONCRETE SLAB REINFORCING AND PREPARATION DETAILS

1 FRONT ELEVATION - TANK #5
 S17 SCALE : 3/4"=1'-0"



PROJECT TITLE:
RCMP "V" DIVISION OIL TANK REPLACEMENT
 SHEET TITLE:
TANK #5 - ELEVATIONS
 PROJECT NUMBER:
17-122-CG-39

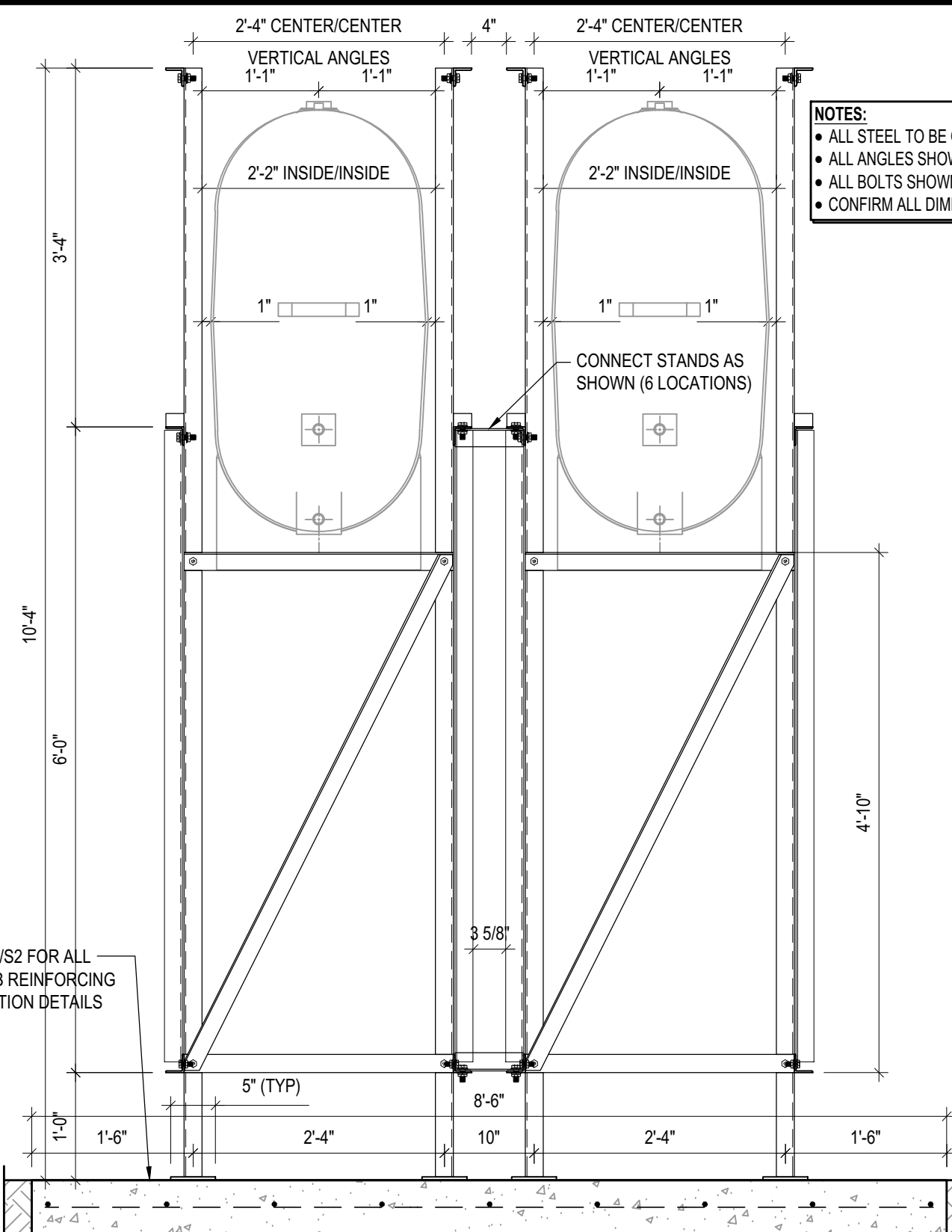
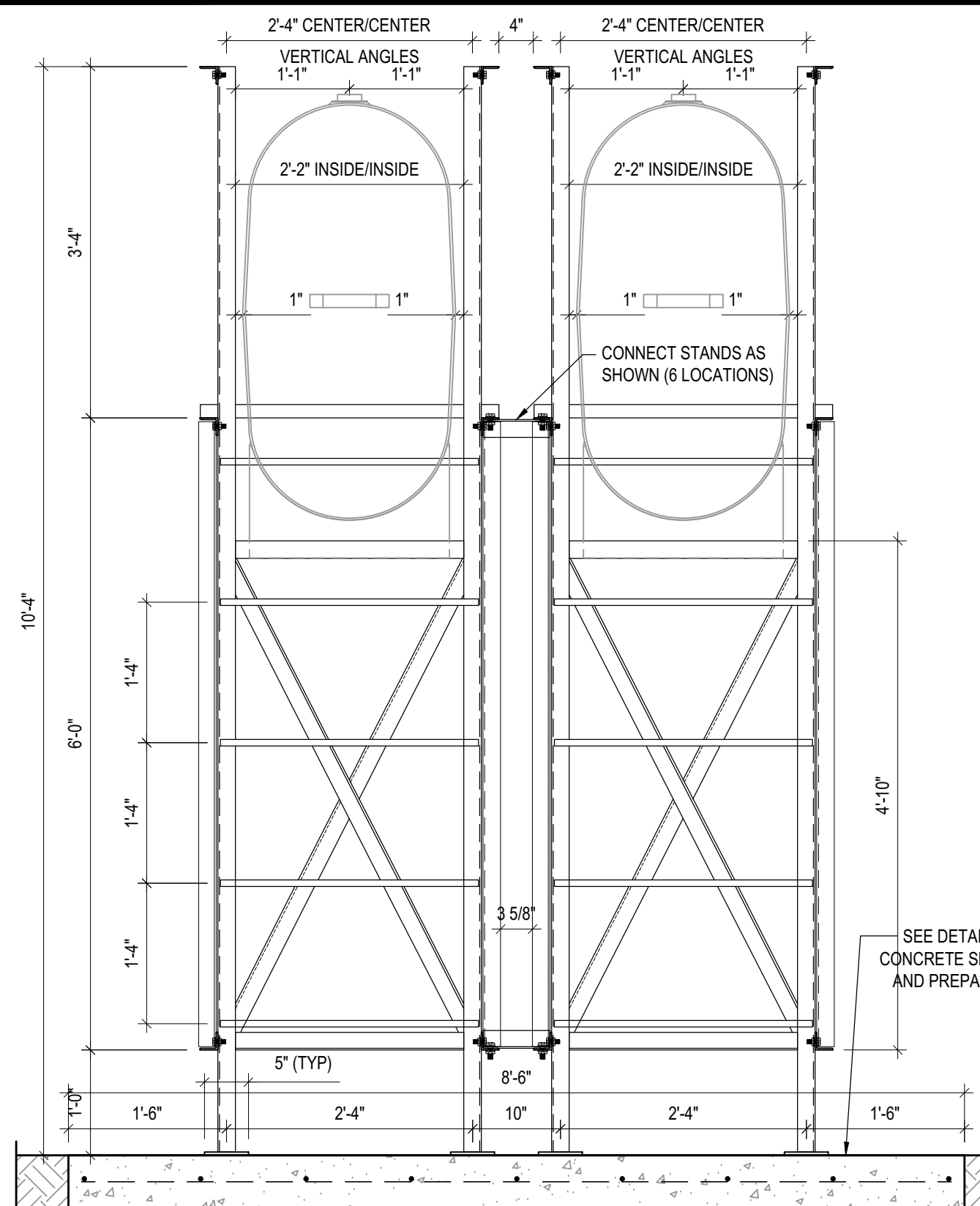


03	ISSUED FOR TENDER	17 06 12	RH
02	ISSUED FOR 99% REVIEW	17 05 30	RH
01	ISSUED FOR REVIEW	17 03 31	RH
REV. #	REVISION	DATE (YY MM DD)	REV. BY

REV. #	REVISION	DATE (YY MM DD)	REV. BY
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SCALE:
AS NOTED
 DATE (YY MM DD):
17 06 12

DRAWING NUMBER:
S17
 REVISION NUMBER:
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- NOTES:**
- ALL STEEL TO BE GALVANIZED (GALV) OR STAINLESS STEEL (SS)
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 - ALL BOLTS SHOWN ARE 1/2"Øx2" LONG (U/N/O)
 - CONFIRM ALL DIMENSIONS SHOWN WITH MECH. DRAWINGS

SEE DETAIL 3/S2 FOR ALL CONCRETE SLAB REINFORCING AND PREPARATION DETAILS

1 LEFT ELEVATION - TANK #5
S18 SCALE : 3/4"=1'-0"

2 RIGHT ELEVATION - TANK #5
S18 SCALE : 3/4"=1'-0"



PROJECT TITLE:
RCMP "V" DIVISION OIL TANK REPLACEMENT
SHEET TITLE:
TANK #5 - ELEVATIONS
PROJECT NUMBER:
17-122-CG-39



03	ISSUED FOR TENDER	17 06 12	RH
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SCALE:
AS NOTED
DATE (YY MM DD):
17 06 12

DRAWING NUMBER:
S18
REVISION NUMBER:
00