

KEY PLAN N.T.S.

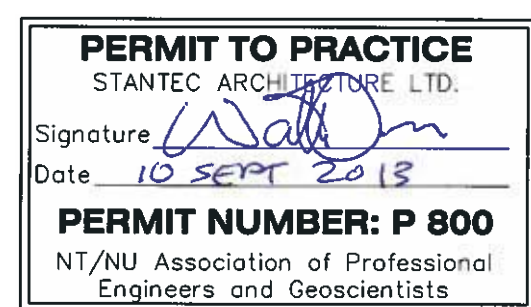
GENERAL NOTES

1. PIPE SIZES SHOWN IN NPS (INCHES).
2. DIMENSION SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED.
3. FIELD VERIFY ALL MEASUREMENTS.
4. PIPE SUPPORTS TYPE 1, 2, 3, 3A, 4 AND 9 ARE NEW PIPE SUPPORTS.
5. PIPE SUPPORT TYPE 5 IS A MODIFICATION TO AN EXISTING PIPE SUPPORT.
6. U-BOLTS TO BE INSTALLED (ON ALTERNATING PIPE IF APPLICABLE) ON EVERY THIRD SUPPORT. TYPICAL FOR ALL.
7. ALL STEEL PIPE SUPPORT STEEL SHALL BE GALVANIZED, GALVANIZING TO CONFORM TO CSA-G164-M.

LEGEND

DO NOT SCALE DRAWINGS

NO.	DATE	REVISION	APPR.
02	13/09/2013	RECORD DRAWING	WO
01	17/02/2012	ISSUED FOR CONSTRUCTION	WO



SCALE-ÉCHELLE AS NOTED

PROJECT-PROJET PF# 68352

UPGRADE MAIN POL COMPOUND

CFS ALERT, NUNAVUT

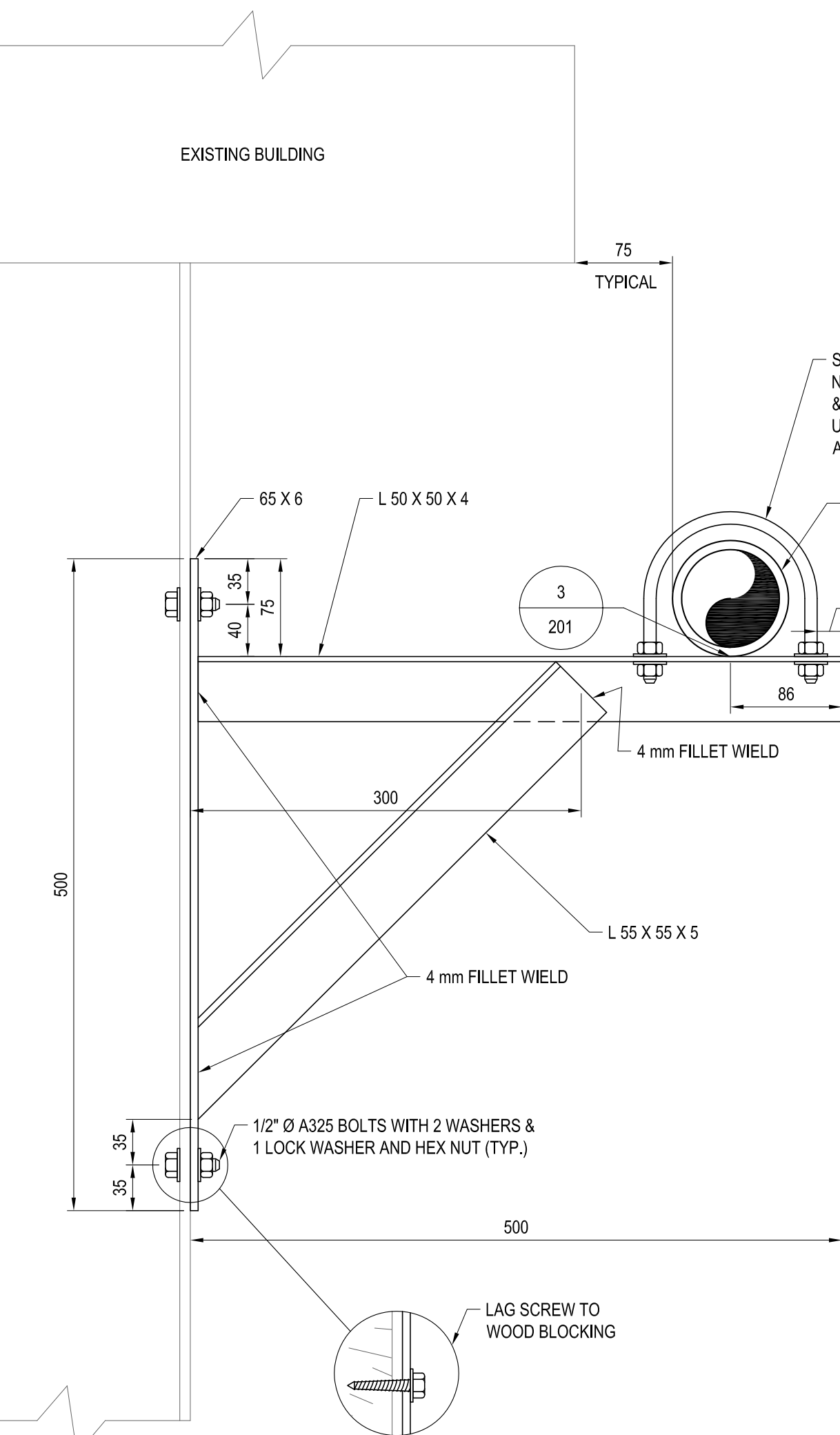
TRADE-MÉTIER STRUCTURAL DATE 2013-09-13

TYPICAL PIPE SUPPORT DETAILS

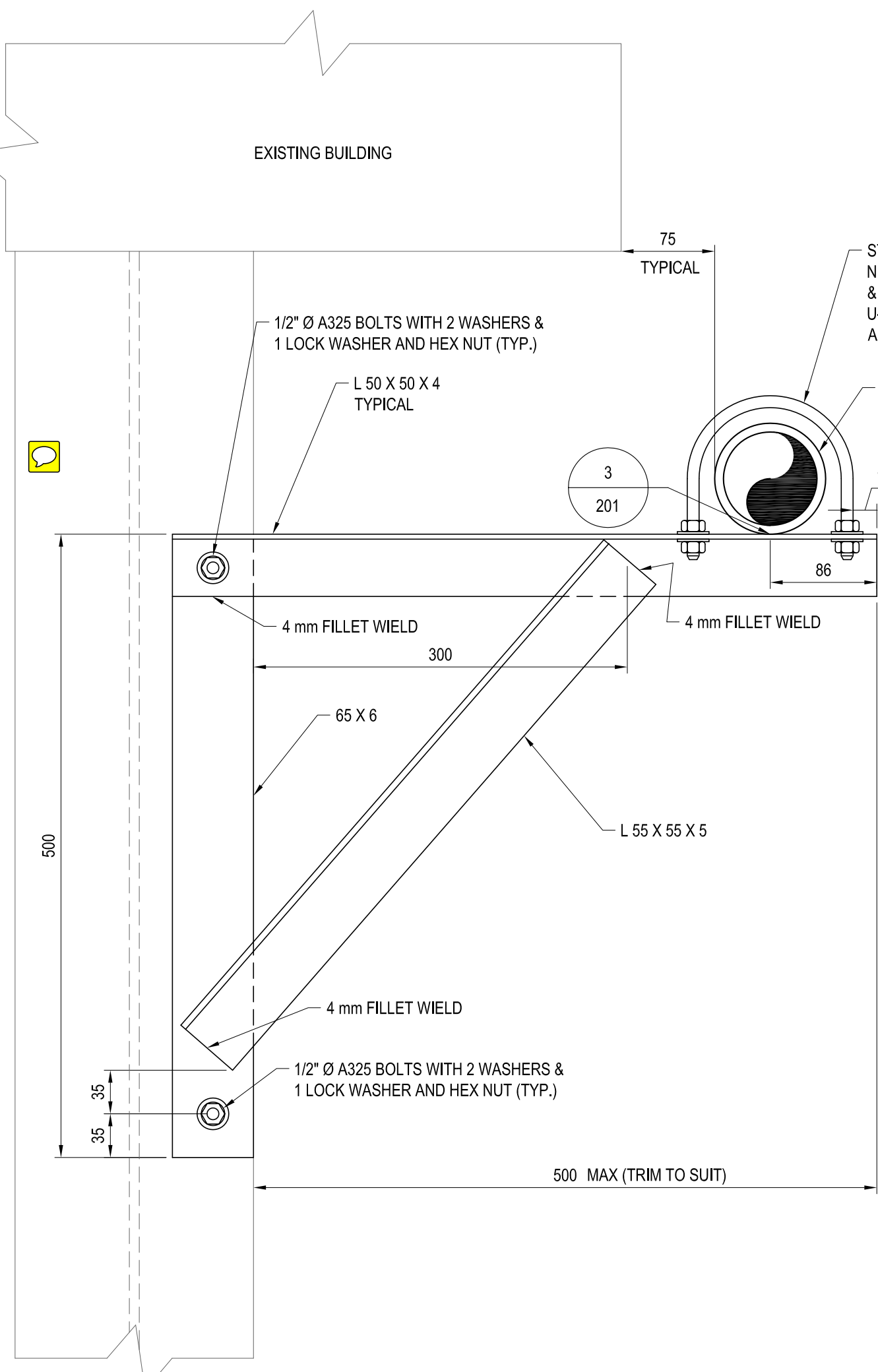
PRODUCTION ÉTUDE	CONCURRENCE-ASSENTIMENT USERS GROUP	
	DESIGNED Dessine	DESIGNED Dessine
DESIGNED Dessine	P. J. P. O'LEARY PROJ. MGR.	P. J. P. O'LEARY PROJ. MGR.
CHECKED Vérifier	FIRE CHIEF CAPT. P. MUSCAT-DRAGO	FIRE CHIEF CAPT. P. MUSCAT-DRAGO
COORDINATION	APPROVED - APPROUVE S. CHINNATAMBY, ENG O	APPROVED - APPROUVE S. CHINNATAMBY, ENG O

DWG. NO. - DESSIN NO. L - A28 -9312/3 - 201

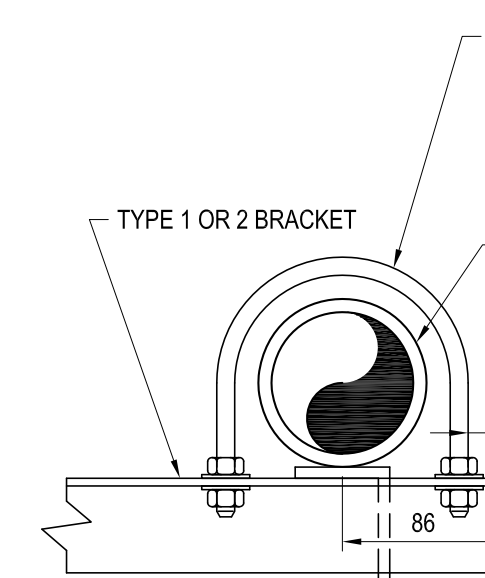
Canada



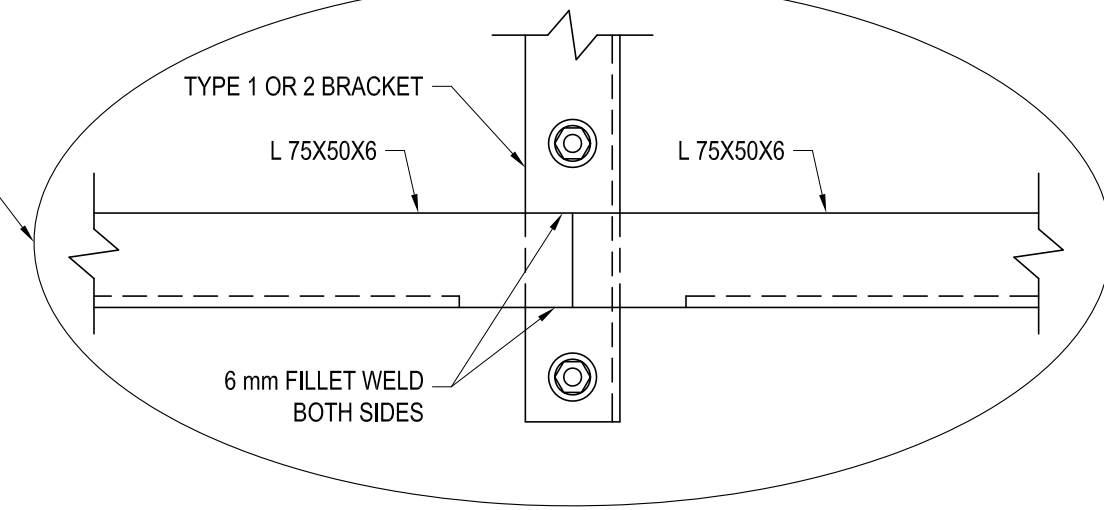
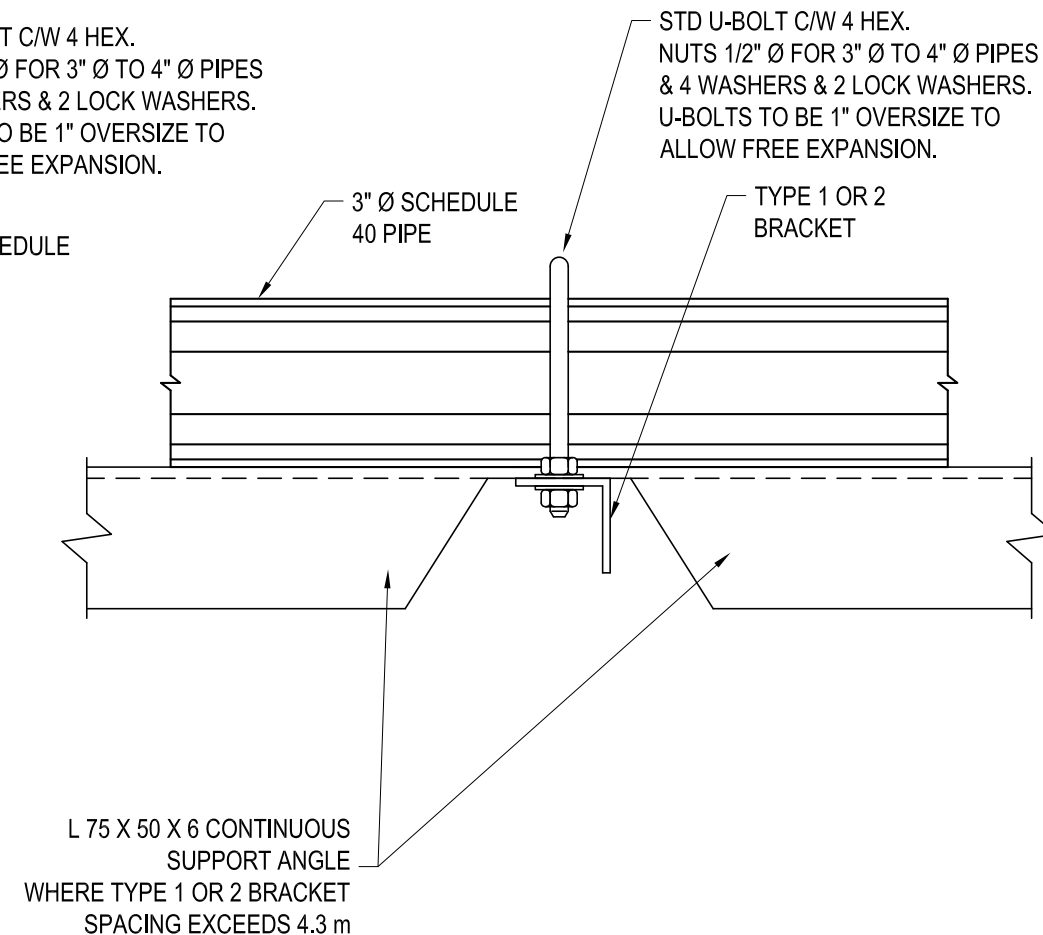
1 TYPE 1 SUPPORT BRACKET DETAIL
SCALE: 1:4



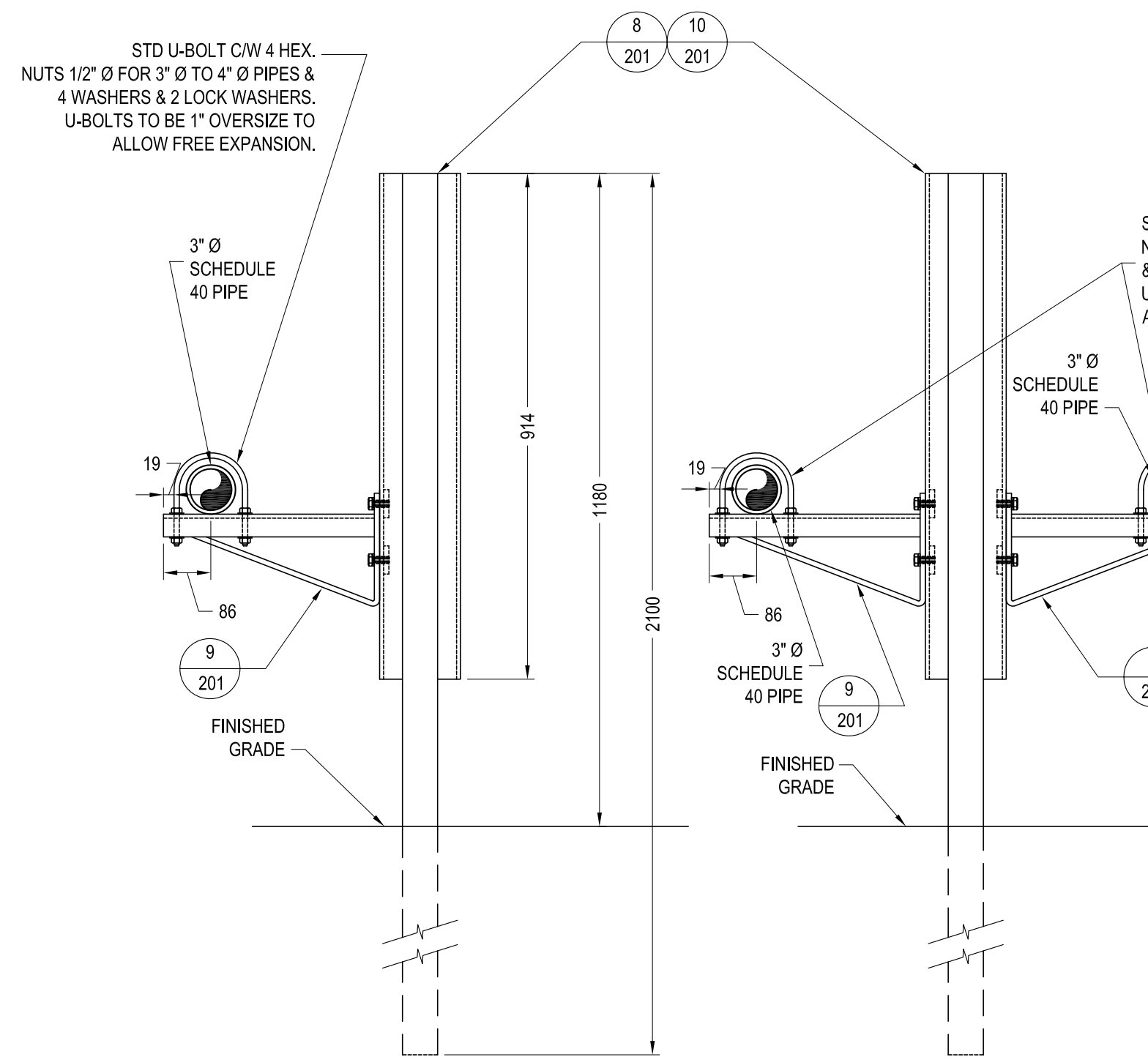
2 TYPE 2 SUPPORT BRACKET DETAIL
SCALE: 1:4



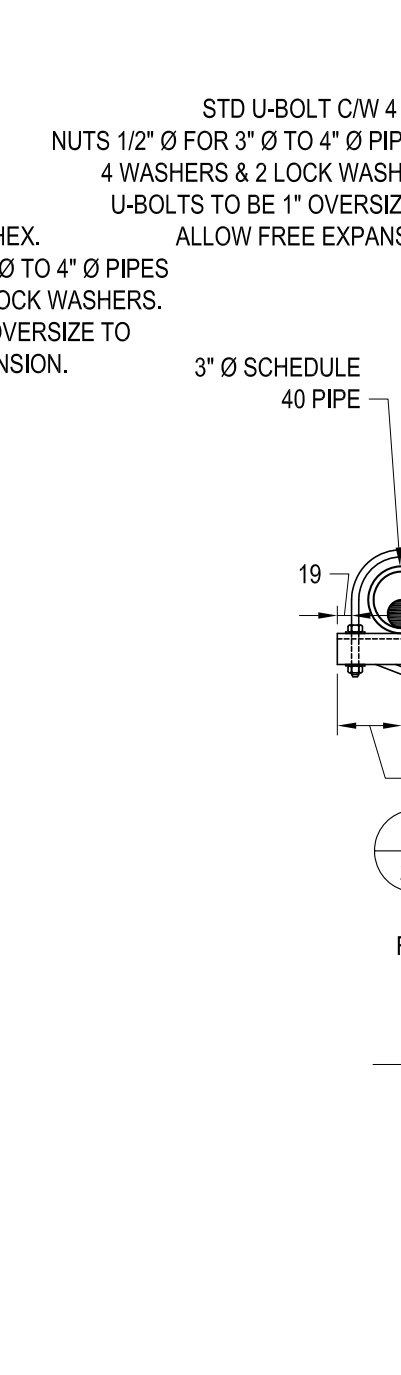
3 SUPPORT ANGLE DETAIL WHERE
TYPE 1 OR 2 BRACKET SPACING EXCEEDS 4.3m
SCALE: 1:4



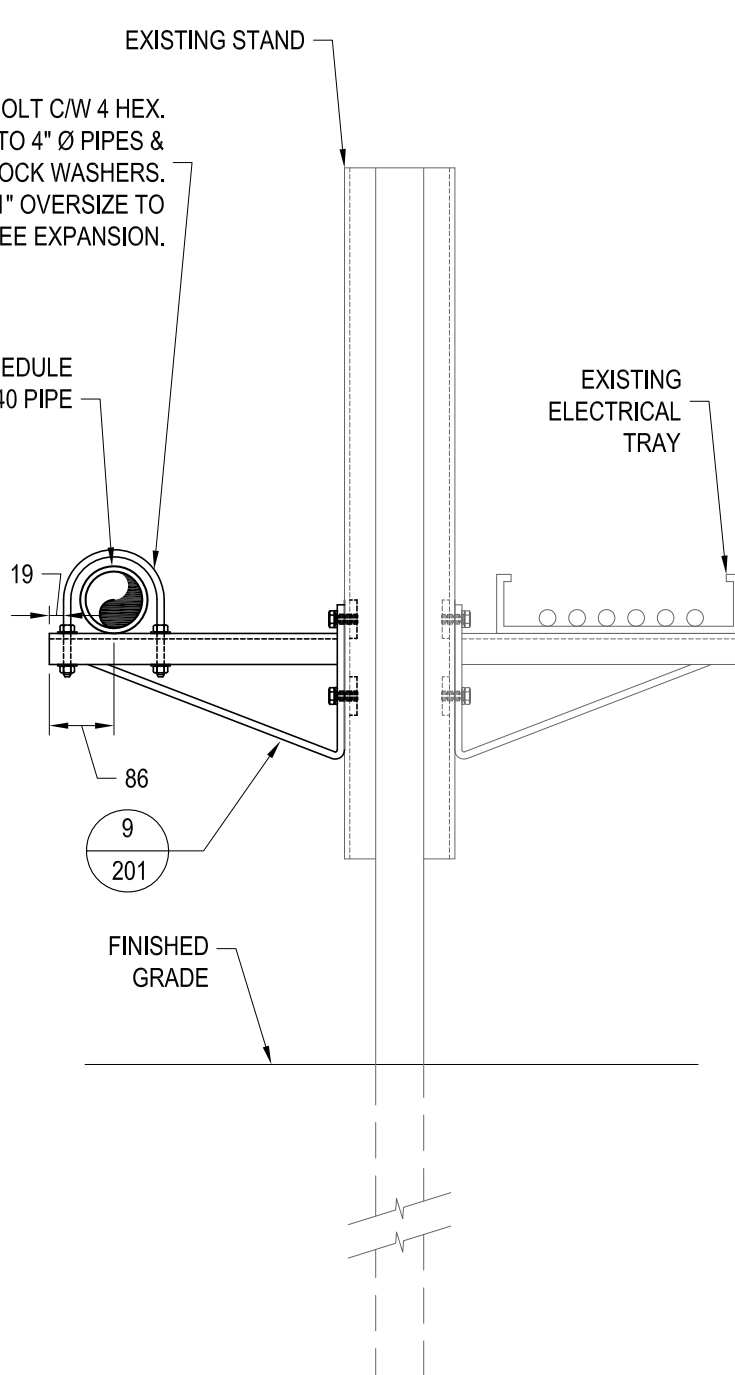
SUPPORT ANGLE DETAIL WHERE
TYPE 1 OR 2 BRACKET SPACING EXCEEDS 4.3m
SCALE: 1:4



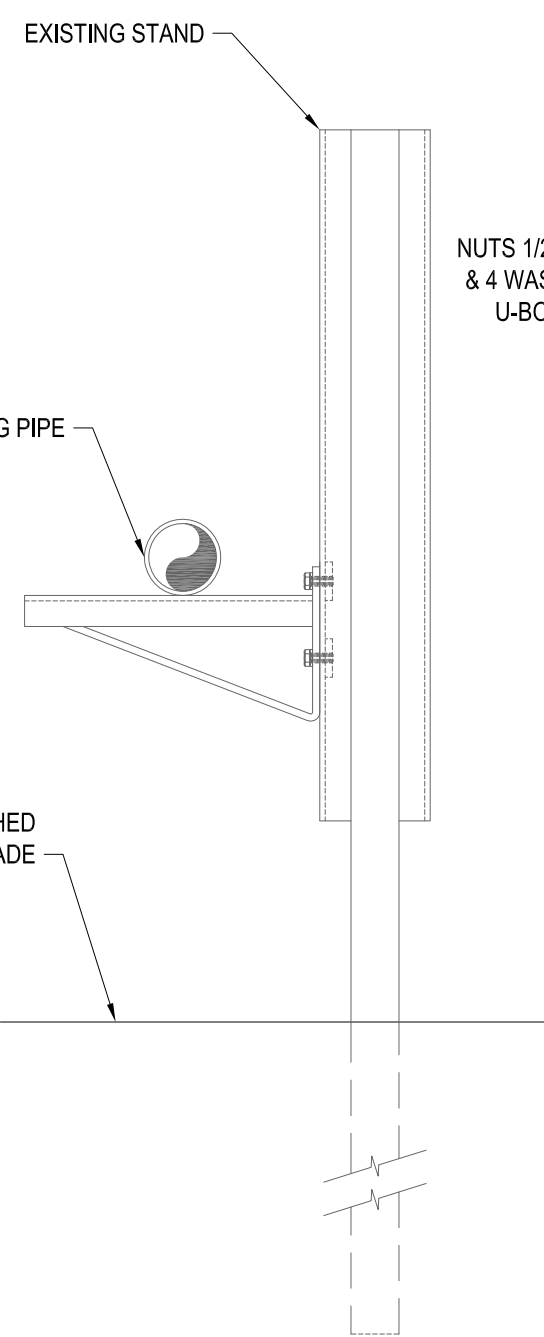
4 TYPE 3 NEW SUPPORT BRACKET DETAIL
SCALE: NTS



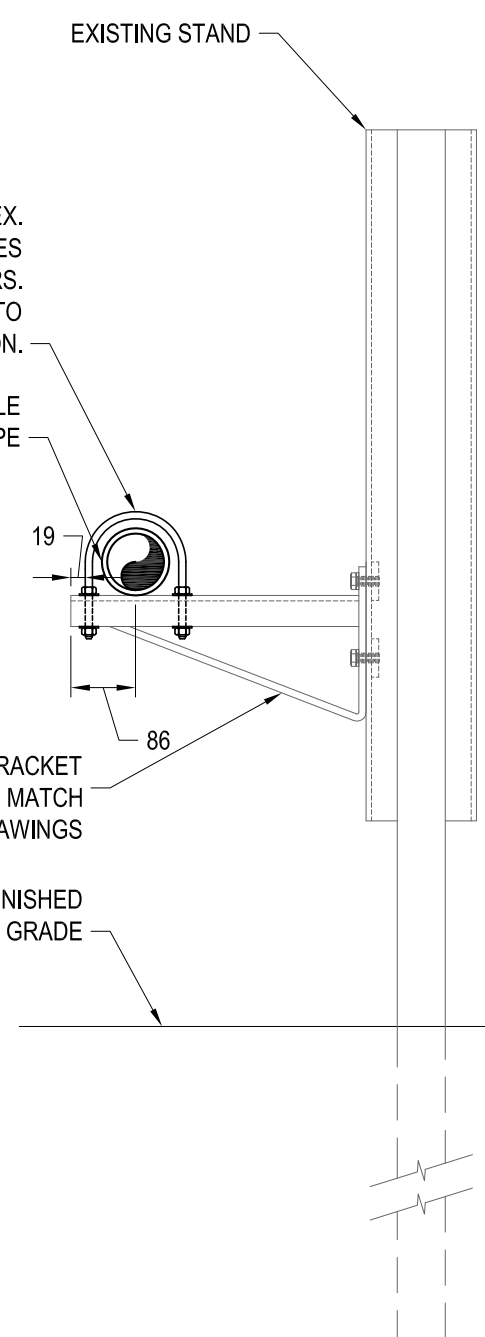
TYPE 3A



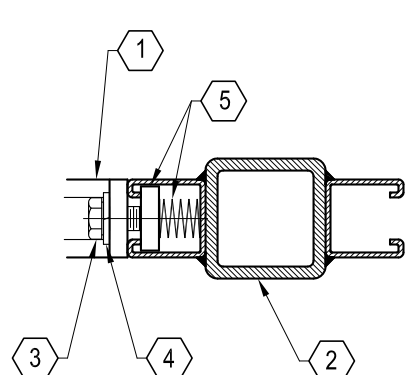
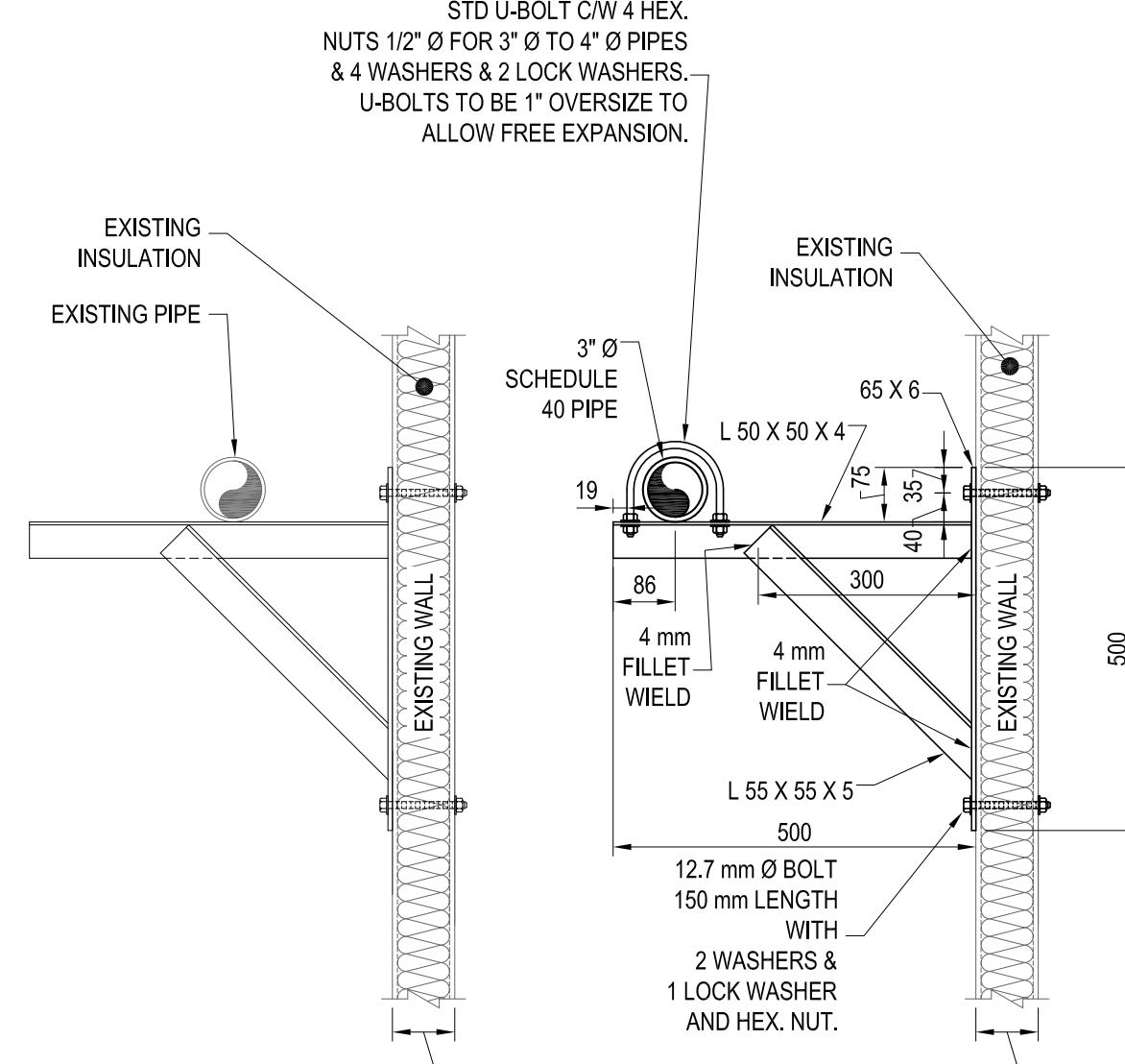
5 TYPE 4 NEW SUPPORT BRACKET
DETAIL ON EXISTING STAND
SCALE: NTS



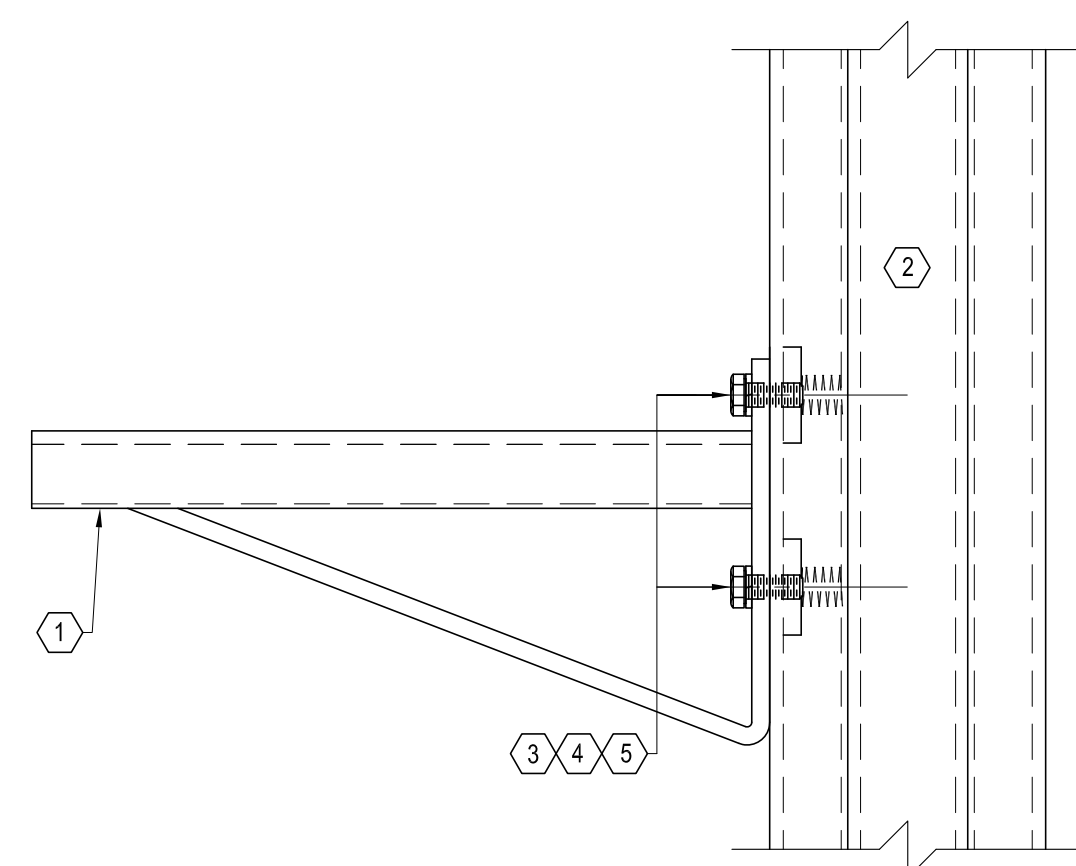
6 TYPE 5 NEW PIPING INSTALL
ON EXISTING BRACKET
SCALE: NTS



7 TYPE 9 NEW WALL BRACKET
SCALE: NTS

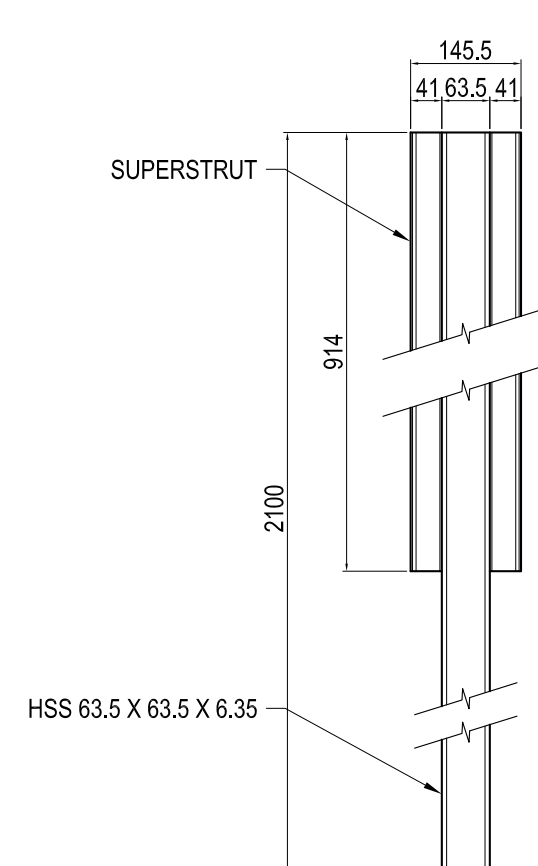


8 PIPE SUPPORT DETAILS - PLAN VIEW
SCALE: N.T.S.



9 PIPE SUPPORT DETAILS
SCALE: N.T.S.

PIPE SUPPORTS SCHEDULE	
TAG	DESCRIPTION
1	PREFABRICATED CANTILEVER BRACKET
2	BRACKET SUPPORT POST ASSEMBLY - PREFABRICATED
3	BRACKET BOLTS: 1/2" x 1-1/2"
4	BRACKET LOCK WASHER: 1/2"
5	STD. SPRING NUT 1/2"

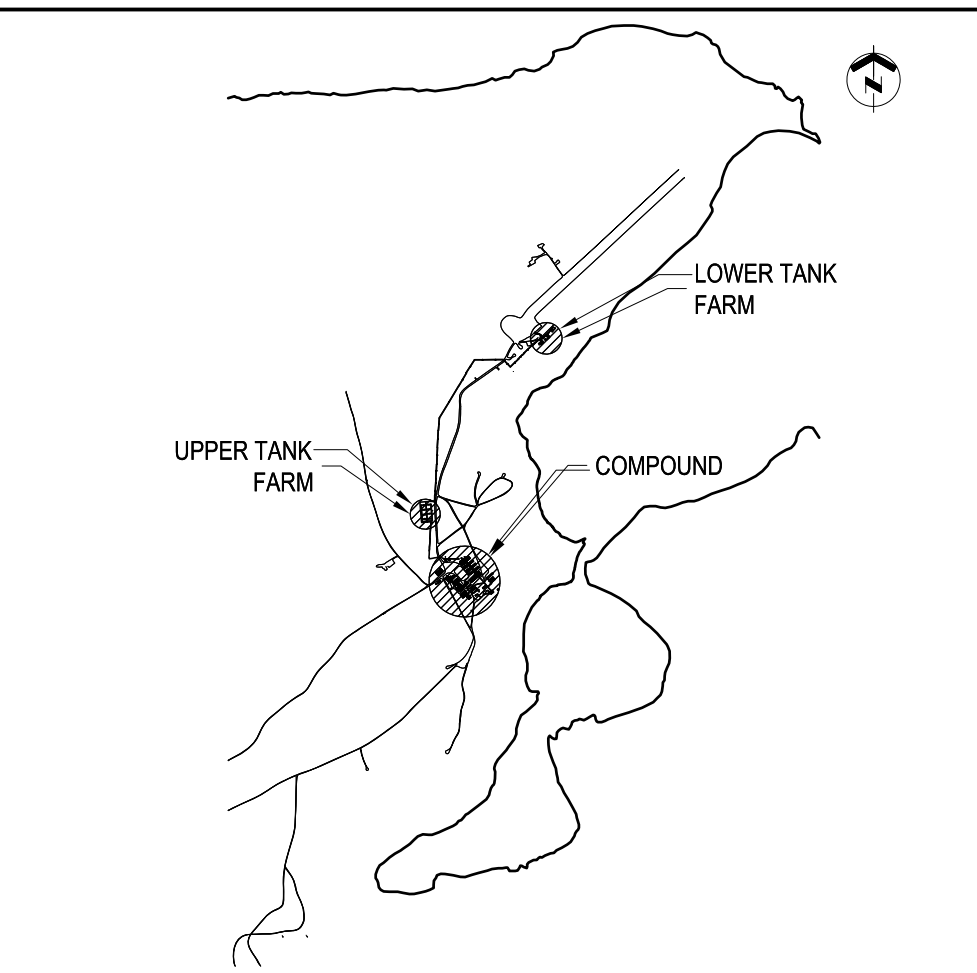


10 PIPE SUPPORT POST ASSEMBLY
SCALE: N.T.S.

NOTE:

HOT DIP GALVANIZE ASSEMBLED
UNIT - AFTER WELDING

1. MANUFACTURE METAL FABRICATION TO DIMENSIONS INDICATED.
2. ALL WELDS TO BE SHOP WELDS BY CERTIFIED WELDERS.
3. WELD AND WELDING MATERIALS TO CSA W59
4. WELDING ELECTRODES TO CSA W48 SERIES.
5. HOT DIPPED GALVANIZING WITH ZINC COATING 600 g/m² TO CAN/CSA-G164.
6. CHANNELS TO BE SUPERSTRUT A1200 12 GAUGE BARE FINISH.
7. CUT SUPERSTRUT TO REQUIRED LENGTHS. MAKE CUTS STRAIGHT AND TRUE. FILE AND REMOVE ANY BURRS OR SHARP EDGES.
8. WELD SUPERSTRUT TO HSS. MAKE COMPONENT SQUARE PLUMB AND TRUE WITH TIGHTLY FITTED JOINTS. REJECT ANY MATERIAL WITH DEFECTS, BENDS OR NOT STRAIGHT AND TRUE.
9. GRIND OFF ACCESS WELD AND SLAG. FINISH COMPLETE ASSEMBLY WITH HOT DIPPED GALVANIZED ZINC COATING.



KEY PLAN N.T.S.

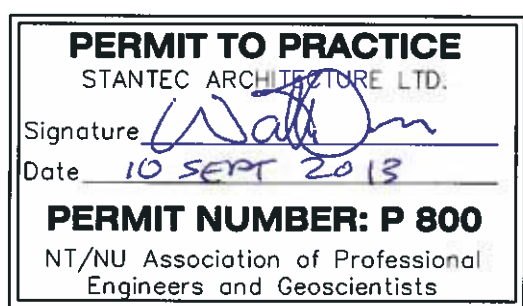
GENERAL NOTES

- PIPE SIZES SHOWN IN NPS (INCHES).
- DIMENSION SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED.
- FIELD VERIFY ALL MEASUREMENTS.
- PIPE SUPPORTS TYPE 6, 7 AND 8 ARE NEW PIPE SUPPORTS.
- U-BOLTS TO BE INSTALLED (ON ALTERNATING PIPE IF APPLICABLE) ON EVERY THIRD SUPPORT. TYPICAL FOR ALL.
- ALL STEEL PIPE SUPPORT STEEL SHALL BE GALVANIZED. GALVANIZING TO CONFORM TO CSA-G164-M.

LEGEND

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SCALE-ÉCHELLE AS NOTED

PROJECT-PROJET PF#: 68352

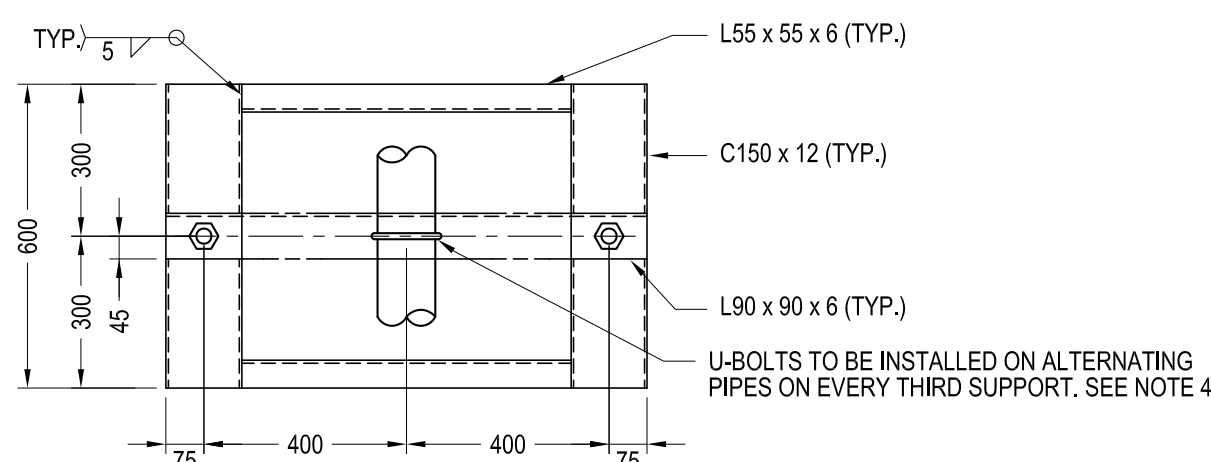
UPGRADE MAIN POL COMPOUND

CFS ALERT, NUNAVUT

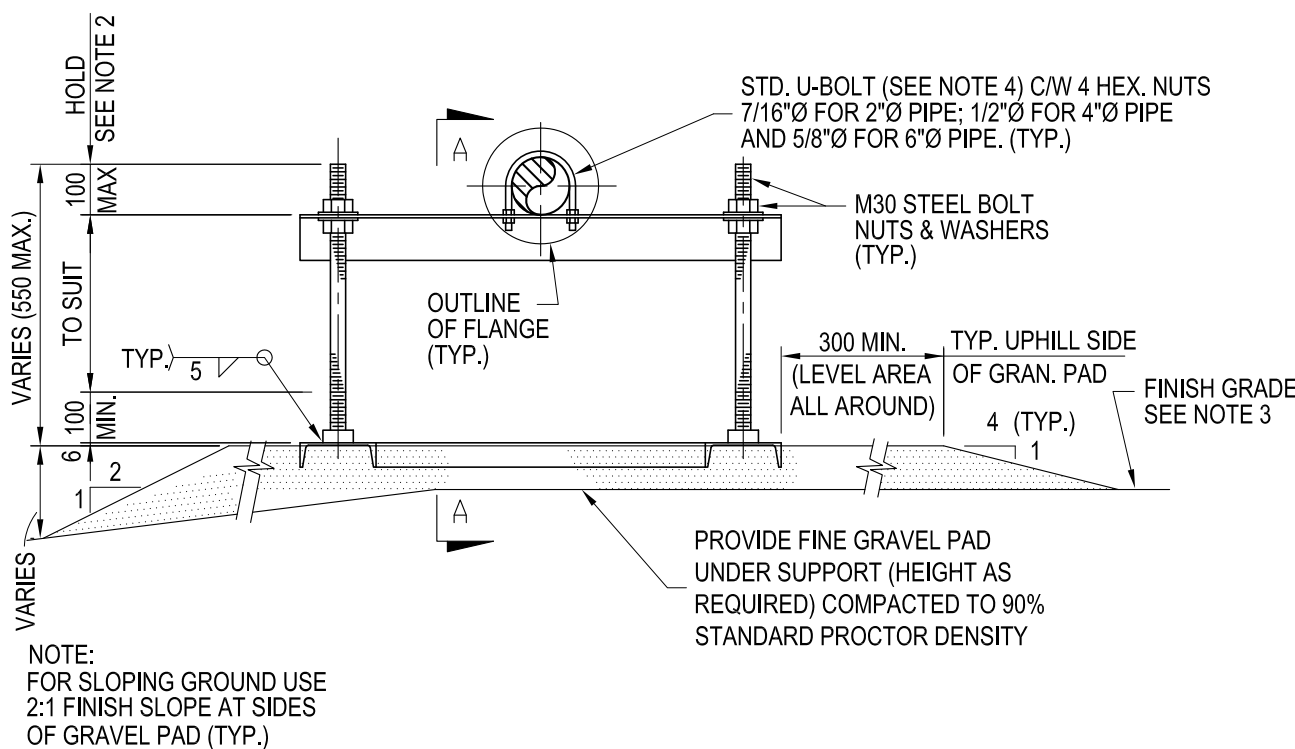
TRADE-MÉTIER CIVIL/STRUCTURAL DATE 2013-09-13

PIPE SUPPORT, BERM & MISC DETAILS

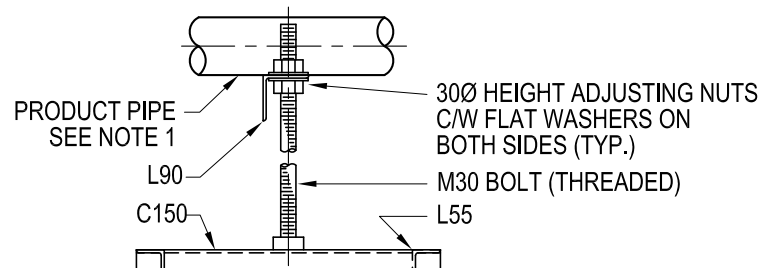
PRODUCTION	CONCURRENCE-ASSENTIMENT	
DESIGNED ÉTUDE	USERS GROUP	
DRAWN DESSINE		P. J. P. O'LEARY PROJ. MGR.
CHECKED VÉRIFIÉ		FIRE CHIEF CAPT. P. MUSCAT-DRAGO
COORDINATION	APPROVED - APPROUVÉ S. CHINNATAMBY, ENG O	
DWG. NO.-DESSIN NO.	L - A28 -9312/3 - 202	



PLAN



ELEVATION

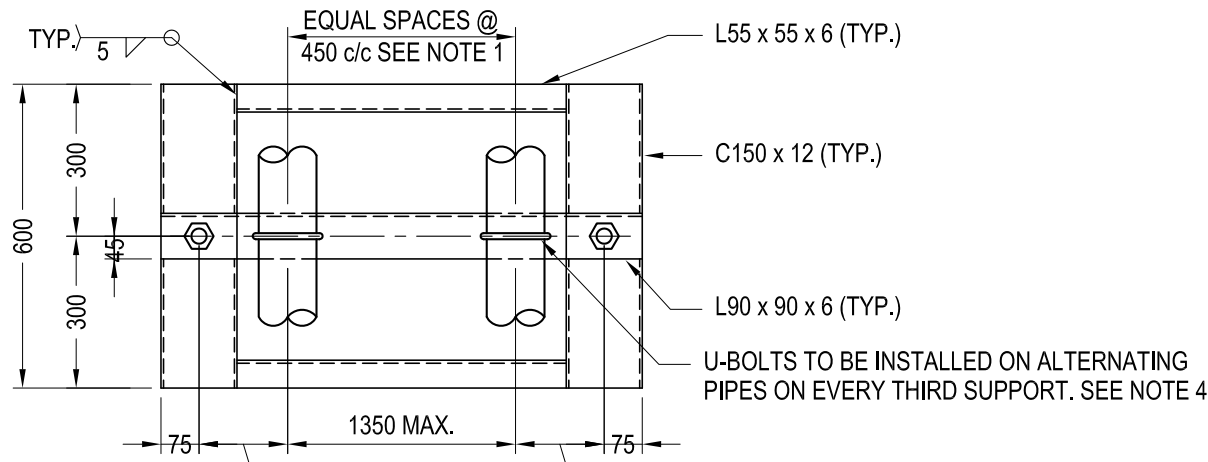


SECTION A-A

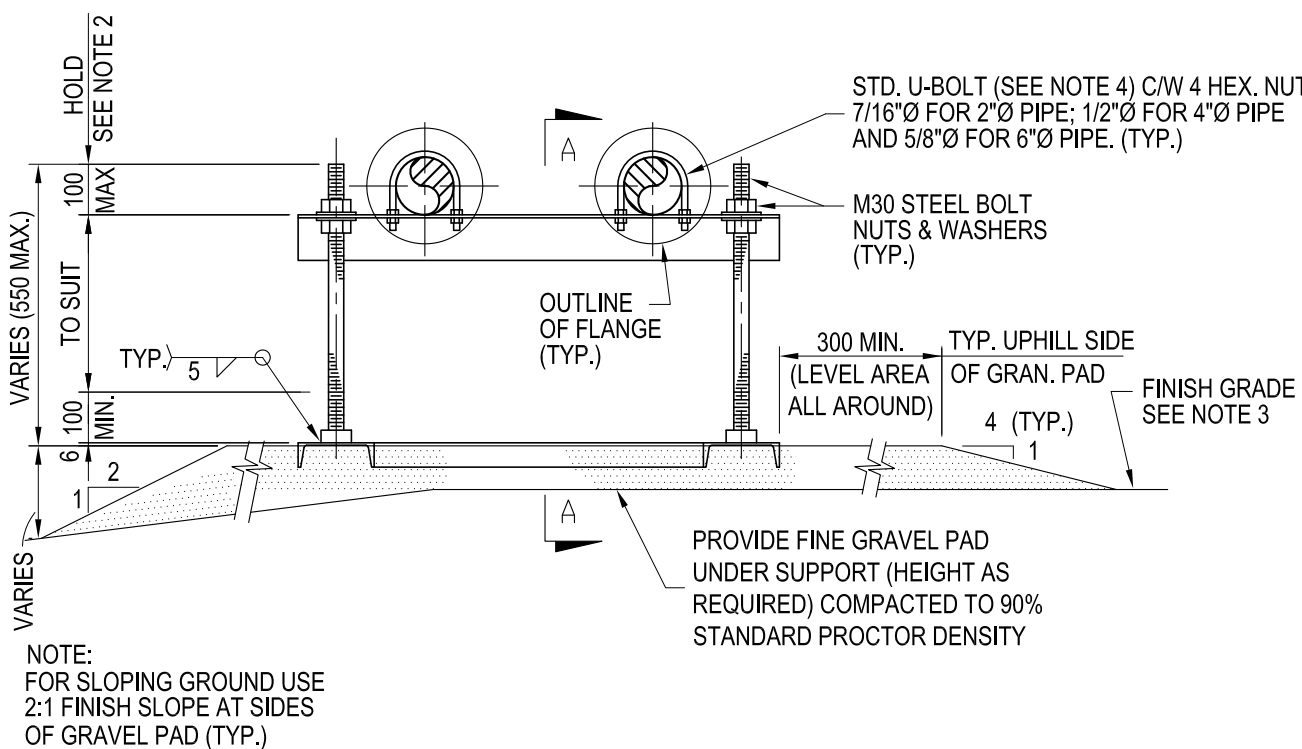
NOTES:

- FOR NUMBER & SIZE OF PRODUCT PIPES SEE PARTICULAR PROJECT DRAWINGS.
- BOLTS TO BE CUT AS SHOWN AFTER INSTALLATION AND FINAL ADJUSTMENT.
- FOR FINISH ELEVATIONS SEE PARTICULAR PROJECT DRAWINGS.
- U-BOLTS TO BE 1" OVERSIZE TO ALLOW FREE EXPANSION OF THE PIPING.

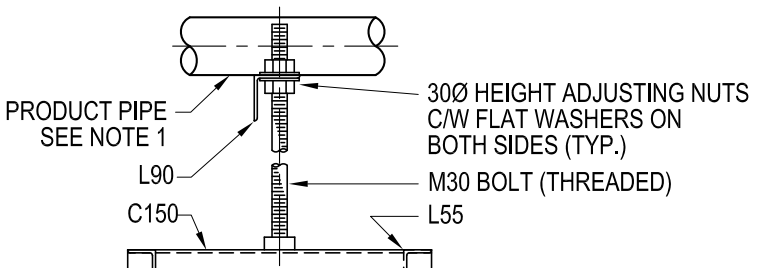
1 TYPE 6 PIPE SUPPORT DETAILS
202 SCALE: 1:15



PLAN



ELEVATION

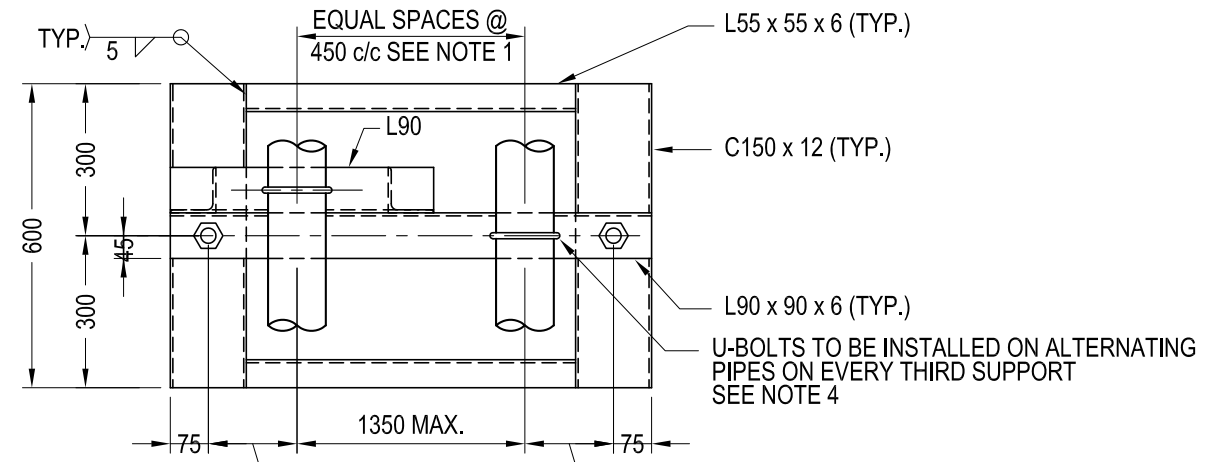


SECTION A-A

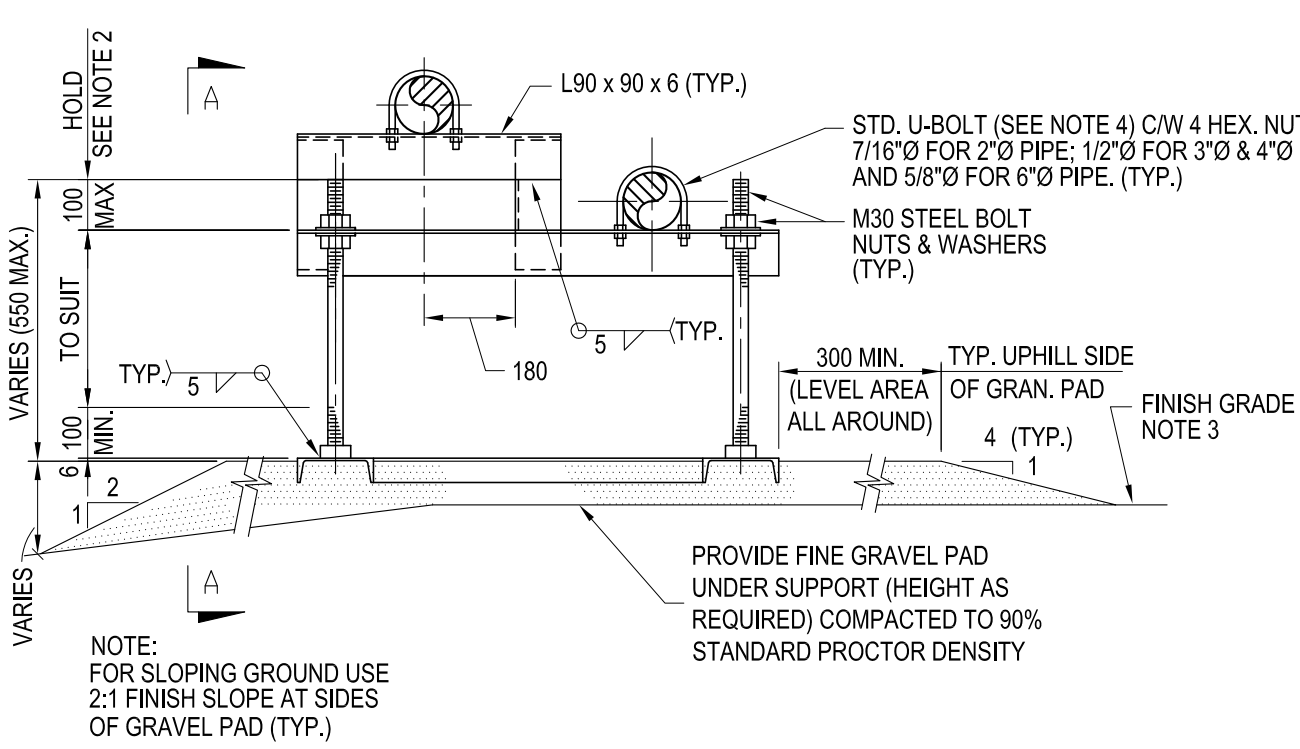
NOTES:

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- BOLTS TO BE CUT AS SHOWN AFTER INSTALLATION AND FINAL ADJUSTMENT.
- FOR FINISH ELEVATIONS SEE PARTICULAR PROJECT DRAWINGS.
- U-BOLTS TO BE 1" OVERSIZE TO ALLOW FREE EXPANSION OF THE PIPING.

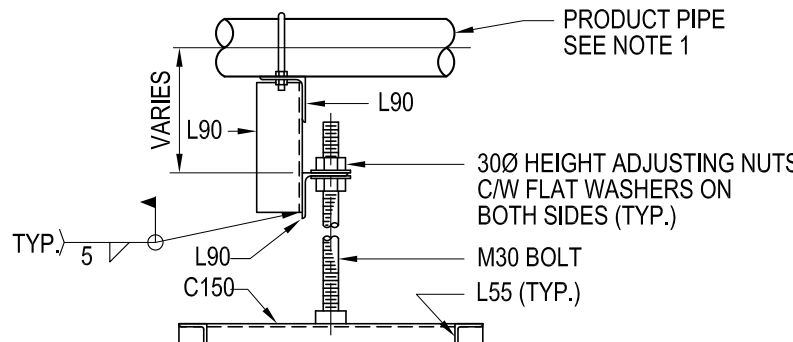
2 TYPE 7 PIPE SUPPORT DETAILS
202 SCALE: 1:15



PLAN



ELEVATION



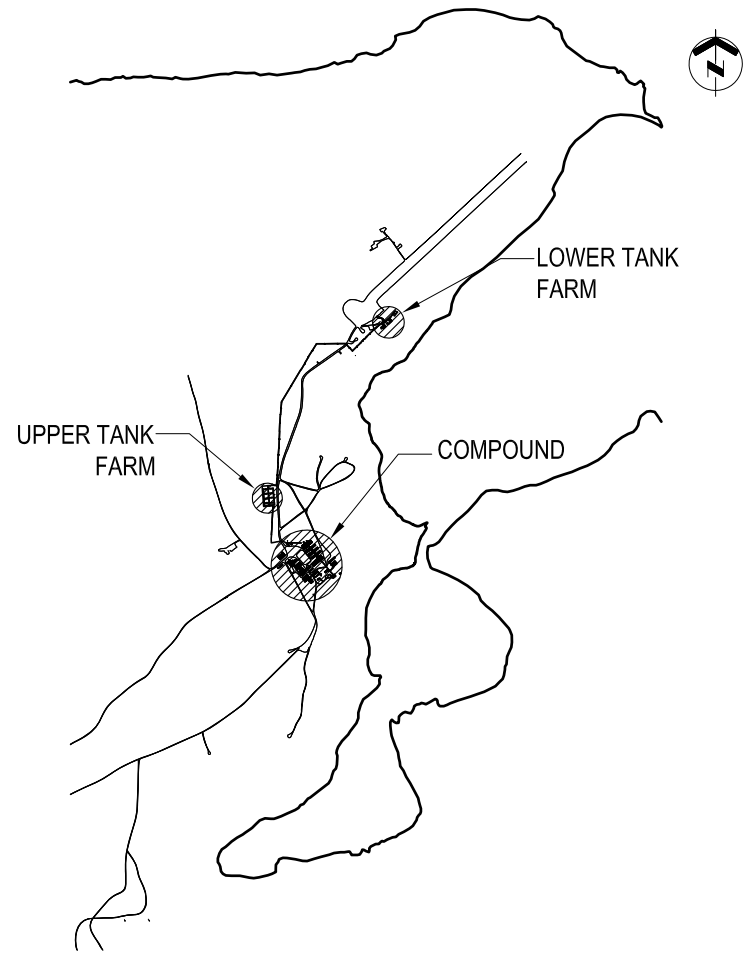
SECTION A-A

NOTES:

- FOR NUMBER & SIZE OF PRODUCT PIPES SEE PARTICULAR PROJECT DRAWINGS.
- BOLTS TO BE CUT AS SHOWN AFTER INSTALLATION AND FINAL ADJUSTMENT.
- FOR FINISH ELEVATIONS SEE PARTICULAR PROJECT DRAWINGS.
- U-BOLTS TO BE 1" OVERSIZE TO ALLOW FREE EXPANSION OF THE PIPING.

3 TYPE 8 PIPE SUPPORT DETAILS
202 SCALE: 1:15

WING CONSTRUCTION ENGINEERING SQUADRON
8 WING, TRENTON, ONTARIO



KEY PLAN N.T.S.

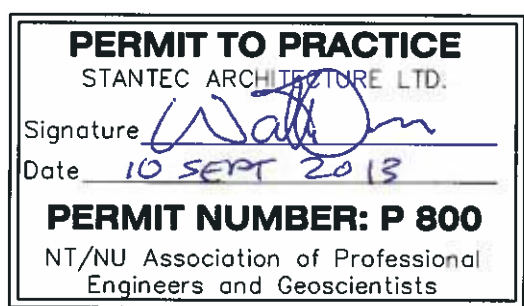
GENERAL NOTES

1. PIPE SIZES SHOWN IN NPS (INCHES).
2. DIMENSION SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED.
3. FIELD VERIFY ALL MEASUREMENTS.
4. U-BOLTS TO BE INSTALLED ON EVERY SUPPORT. TYPICAL FOR ALL.
5. ALL STEEL PIPE SUPPORT STEEL SHALL BE GALVANIZED.
GALVANIZING TO CONFORM TO CSA-G164-M.

LEGEND

DO NOT SCALE DRAWINGS

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SCALE-ÉCHELLE AS NOTED

PROJECT-PROJET PF#: 68352

UPGRADE MAIN POL COMPOUND

CFS ALERT, NUNAVUT

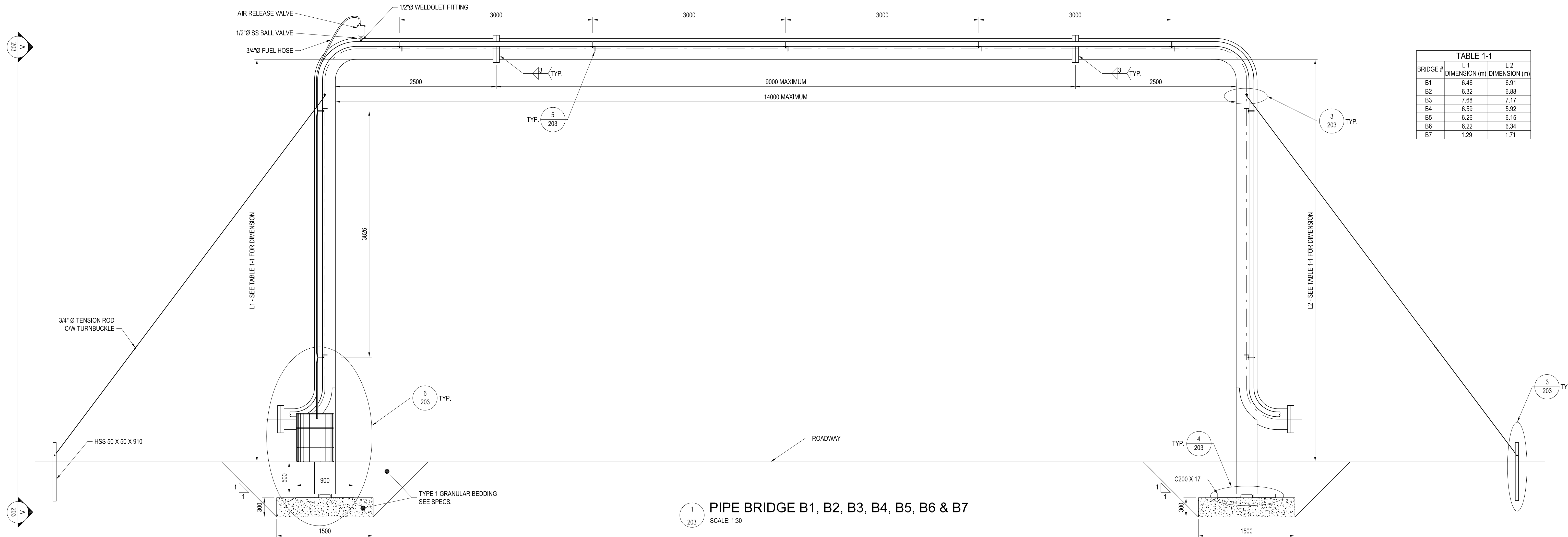
TRADE-MÉTIER STRUCTURAL DATE 2013-09-13

PIPE BRIDGE & MISC DETAILS

PRODUCTION	CONCURRENCE-ASSENTIMENT
DESIGNED ÉTUDE	USERS GROUP
DRAWN DESSINE	P.J.P. O'LEARY PROJ. MGR.
CHECKED VÉRIFIÉ	FIRE CHIEF CAPT.P.MUSCAT-DRAGO
COORDINATION	APPROVED - APPROUVÉ S.CHINNATAMBY, ENG O

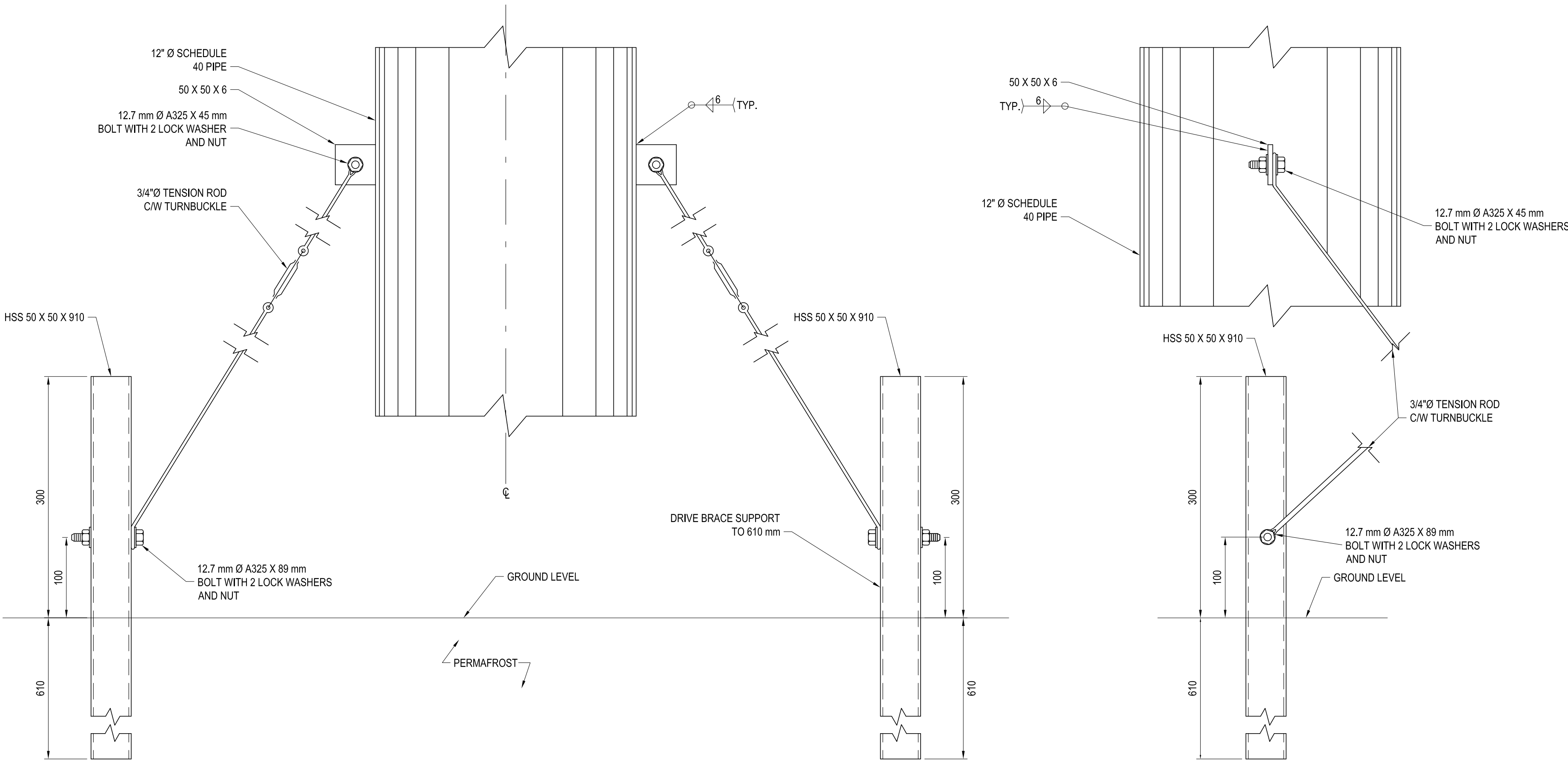
DWG.NO.-DESSIN NO. L - A28 -9312/3 - 203

Canada



1 PIPE BRIDGE B1, B2, B3, B4, B5, B6 & B7

SCALE: 1:30

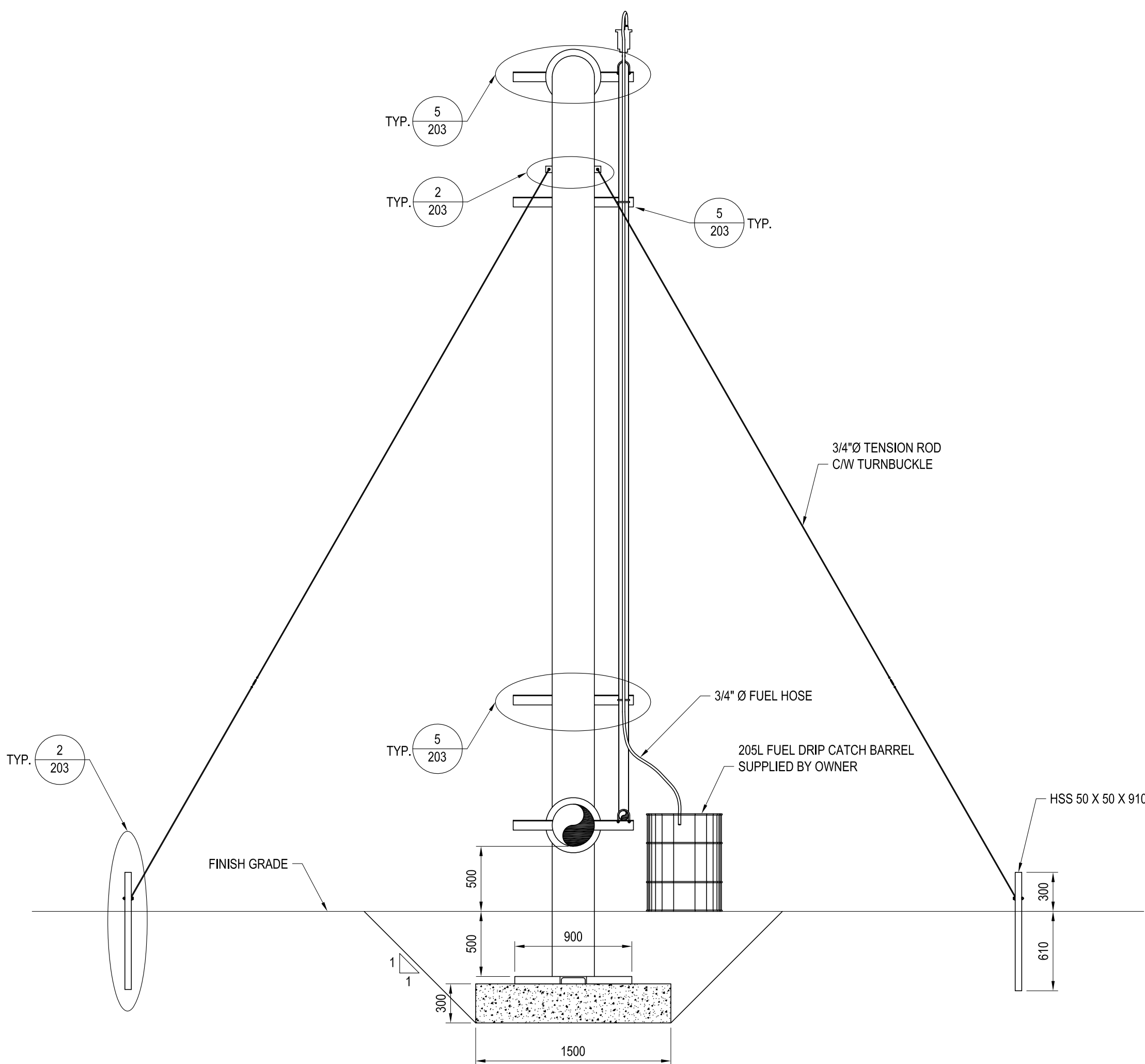


2 BRACE DETAIL

SCALE: 1:4

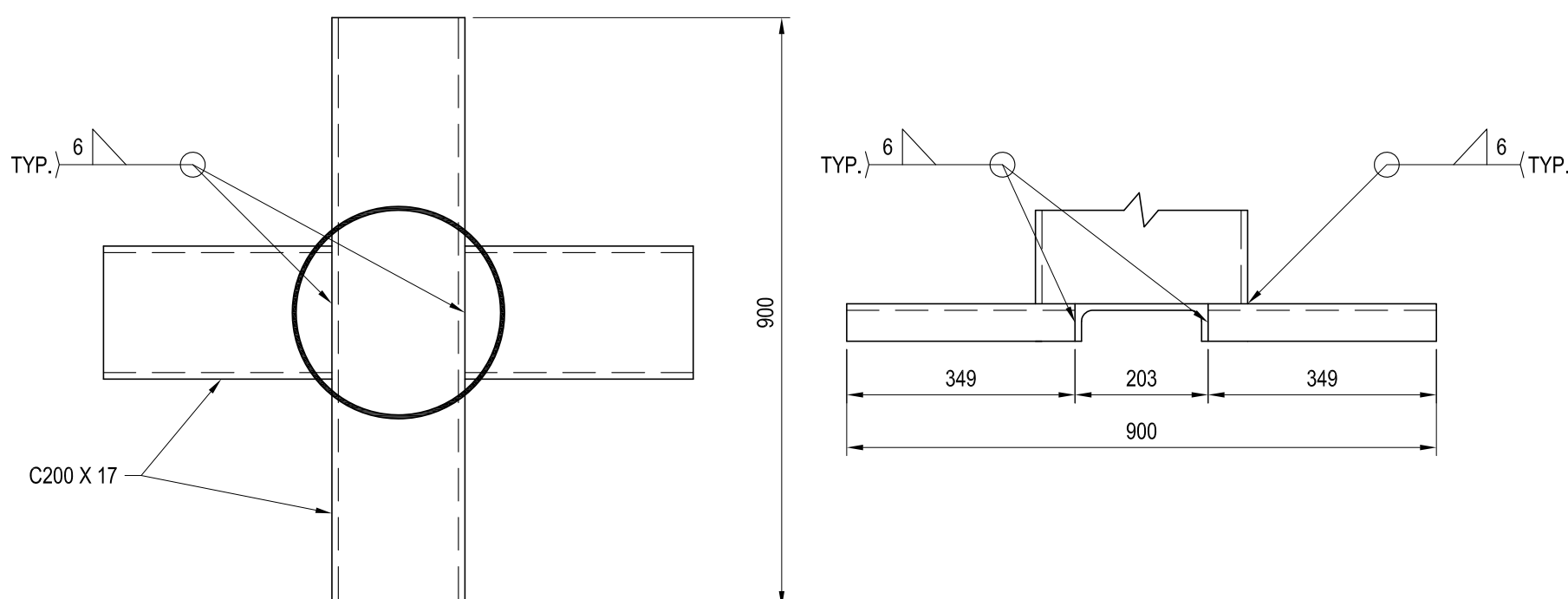
3 BRACE DETAIL

SCALE: 1:4



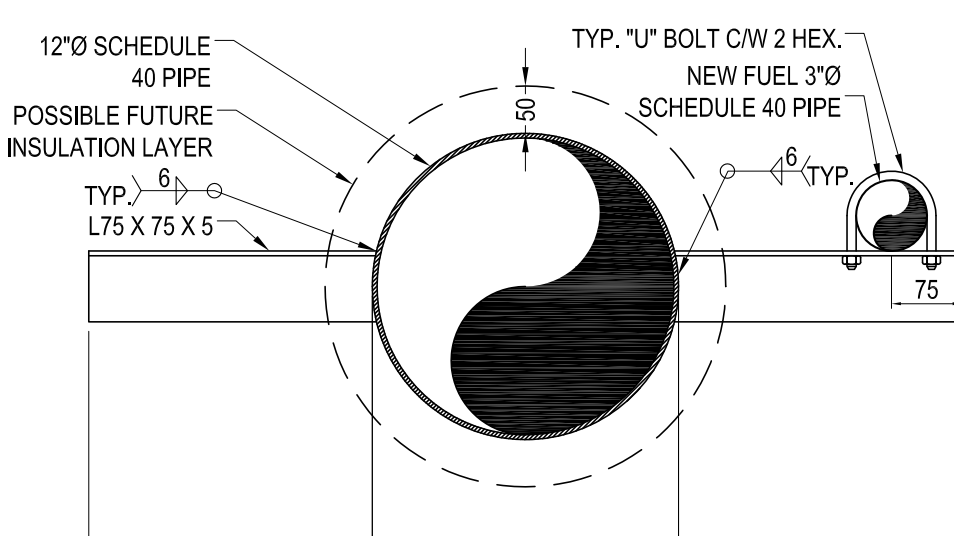
PIPE BRIDGE SECTION

SCALE: 1:30



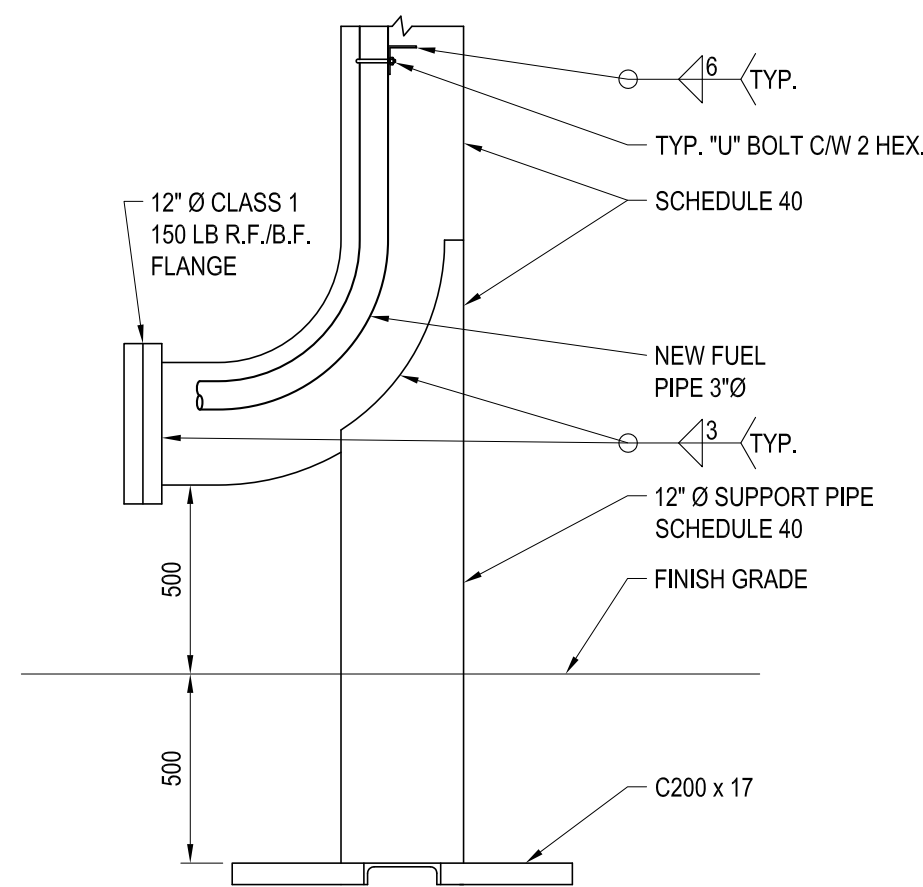
4 STEEL FOUNDATION DETAIL

SCALE: 1:10



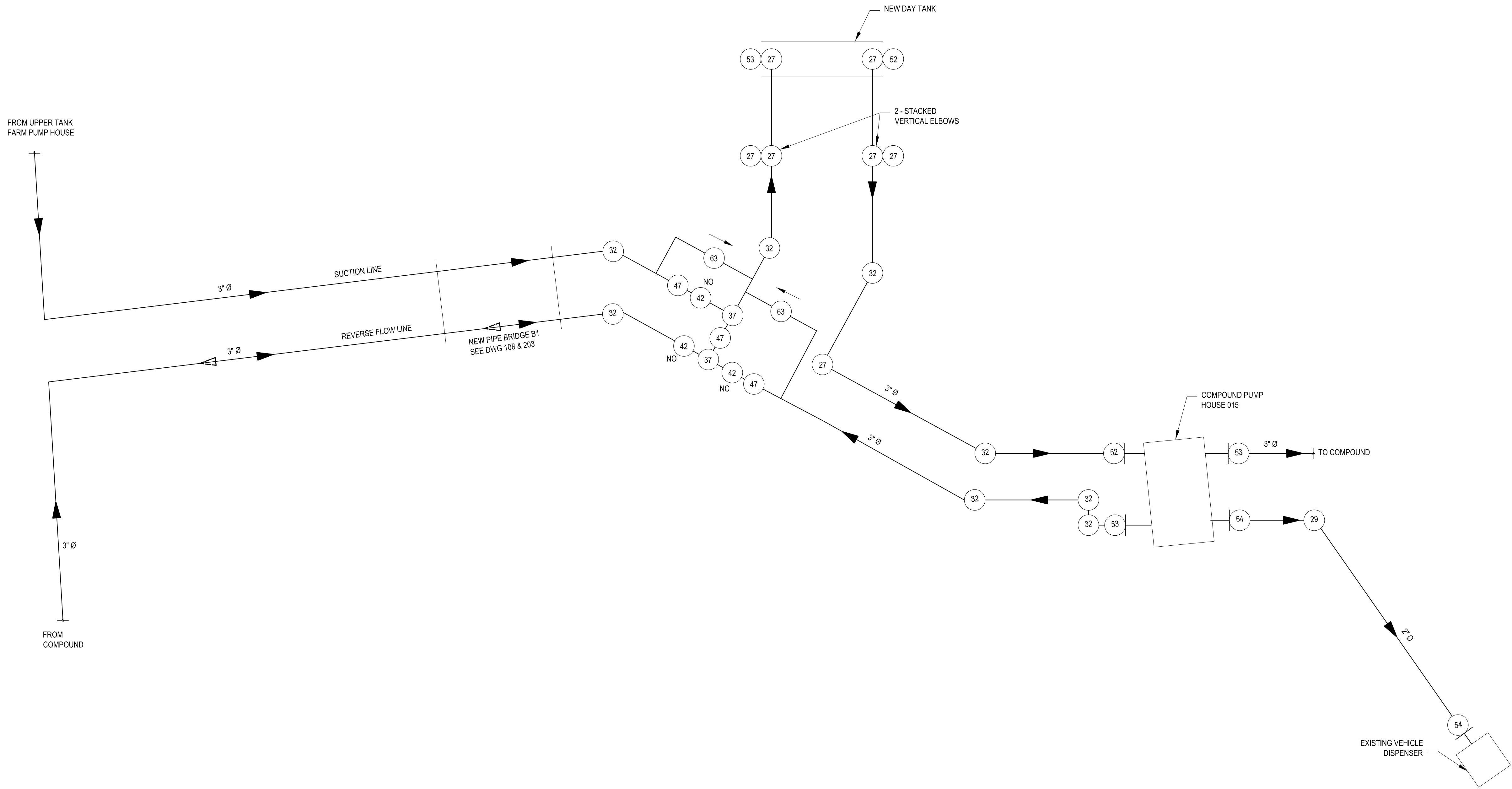
PIPE DETAIL

SCALE: 1:8



PIPE SUPPORT DETAIL

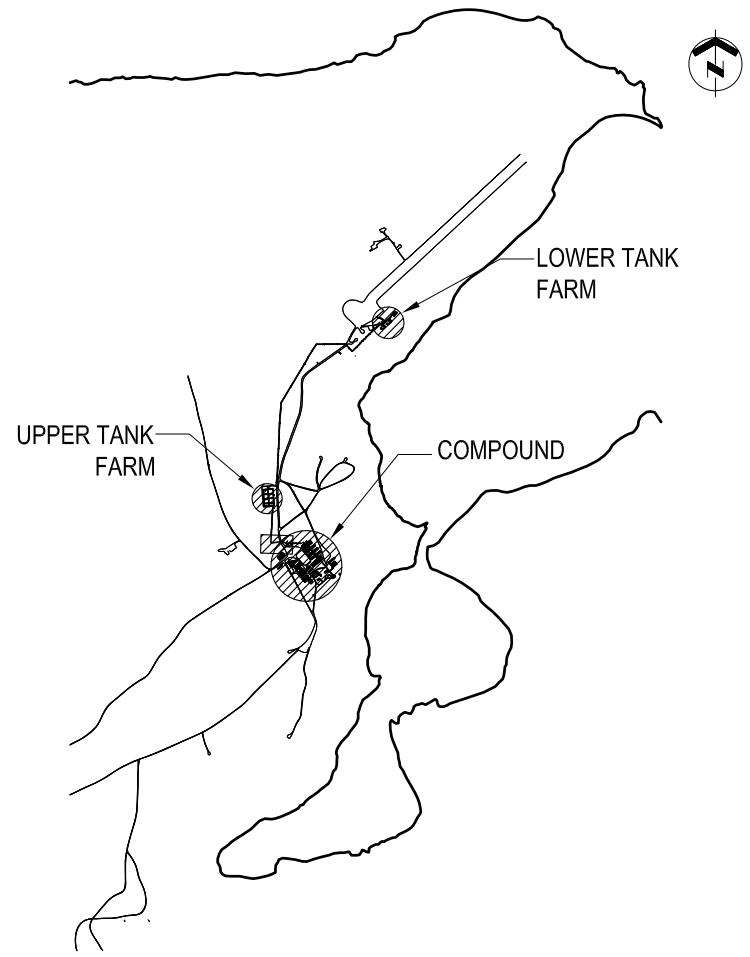
SCALE: 1:20



PIPING SCHEMATIC FOR NEW DAY TANK & FUEL DISPENSING
N.T.S.

SCHEDULE OF MATERIALS - NEW DAY TANK		
No.	Nom. Size	Description
27	3" Ø	ELBOW, 90 deg., SCH. 40
29	2" Ø	ELBOW, 90 deg., SCH. 40
32	3" Ø	ELBOW, 45 deg., B.W., SCH. 40
37	3" Ø	STRAIGHT TEE, SCH. 40
42	3" Ø	GATE VALVE, (SEE SPECS)
47	3" Ø	CHECK VALVE (SEE SPECS)
52	3" Ø	FLEXIBLE CONNECTOR, 810 LG.
53	3" Ø	FLEXIBLE CONNECTOR, 408 LG.
54	2" Ø	FLEXIBLE CONNECTOR, 309 LG.
63	1" Ø	THERMAL PRESSURE RELIEF VALVE THREADED ENDS, PRESET AT 172 kPa (25 P.S.I.)

WING CONSTRUCTION ENGINEERING SQUADRON
8 WING, TRENTON, ONTARIO



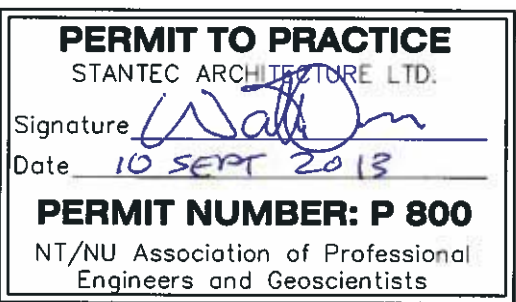
KEY PLAN N.T.S.

- GENERAL NOTES**
- ALL PIPE SIZES SHOWN IN NPS (INCHES).
 - PRESSURE RELIEF ASSEMBLIES NOT SHOWN FOR CLARITY. ALL GATE VALVES TO RELIEVE TO THE TANK.
 - ALL FUEL PIPING, FITTINGS AND ALL OTHER APPURTENANCES TO BE NEW.
 - FIELD VERIFY ALL MEASUREMENTS.
 - REFER TO DRAWING 501 FOR STATIC ELECTRICITY GROUNDING CONNECTION DETAILS. PROVIDE AND WELD ALL GROUND LUG PLATES TO PIPING ETC. AT ALL LOCATIONS AS REQUIRED.

- LEGEND**
- NO: NORMALLY OPEN
NC: NORMALLY CLOSED
DIRECTION OF FLOW
PRESSURE RELIEF DIRECTION

DO NOT SCALE DRAWINGS

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SCALE-ÉCHELLE	NTS
PROJECT-PROJET	PF#: 68352

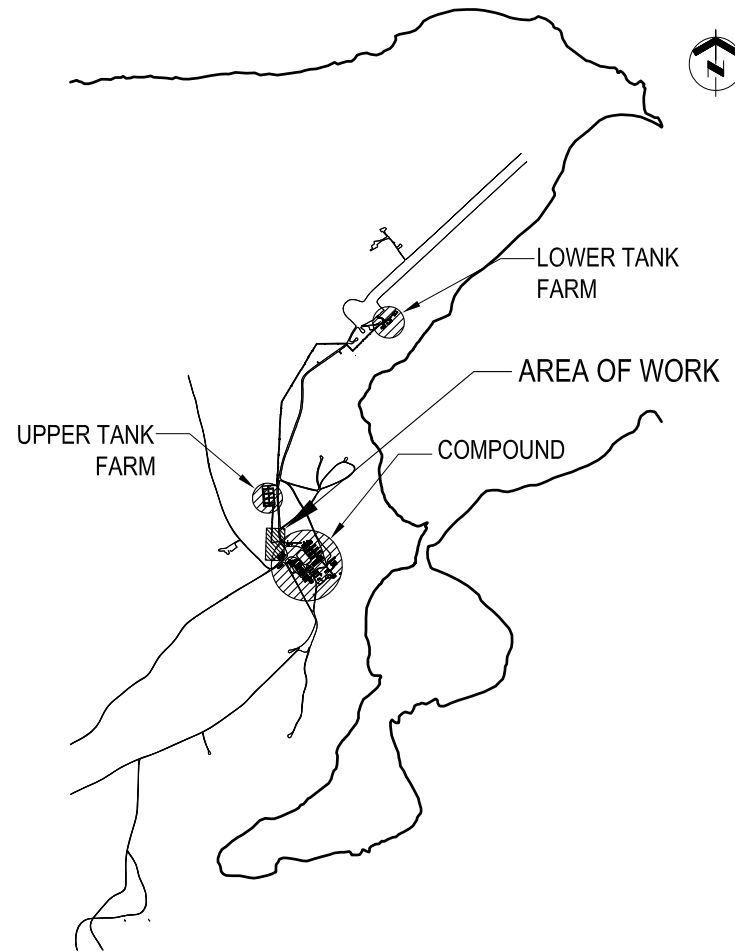
UPGRADE MAIN POL COMPOUND

CFS ALERT, NUNAVUT

TRADE-MÉTIER	MECHANICAL	DATE	2013-09-13
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SCHEMATIC DESIGN
NEW DAY TANK

PRODUCTION		CONCURRENCE-ASSENTIMENT	
DESIGNED ÉTUDE	USERS GROUP		
			P.J.P. O'LEARY PROJ. MGR.
			FIRE CHIEF CAPT.P.MUSCAT-DRAGO
COORDINATION		APPROVED - APPROUVÉ S.CHINNATAMBY, ENG O	
DWG.NO.-DESSIN NO.		L - A28 -9312/3 - 401	



KEY PLAN N.T.S.

GENERAL NOTES

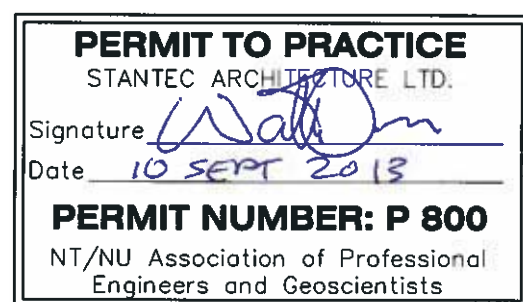
1. PIPE SIZES SHOWN IN NPS (INCHES).
2. DIMENSIONS SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED.
3. ALL FUEL PIPING, FITTINGS AND ALL OTHER APPURTENANCES TO BE NEW.
4. FIELD VERIFY ALL MEASUREMENTS.
5. REFER TO DRAWING 501 FOR STATIC ELECTRICITY GROUNDING CONNECTION DETAILS. PROVIDE AND WELD ALL GROUND LUG PLATES TO PIPING ETC. AT ALL LOCATIONS AS REQUIRED.

LEGEND

BOP:	BOTTOM OF PIPE
ELEV.:	ELEVATION
	GATE VALVE
	PRESSURE RELIEF ASSEMBLY & DIRECTION
	CHECK VALVE
	NEW TYPE 6 PIPE SUPPORT - SEE 1/202
	DIRECTION OF FLOW
	DRAINAGE ARROW

DO NOT SCALE DRAWINGS

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SCALE-ÉCHELLE AS SHOW

PROJECT-PROJET PF#: 68352

UPGRADE MAIN POL COMPOUND

CFS ALERT, NUNAVUT

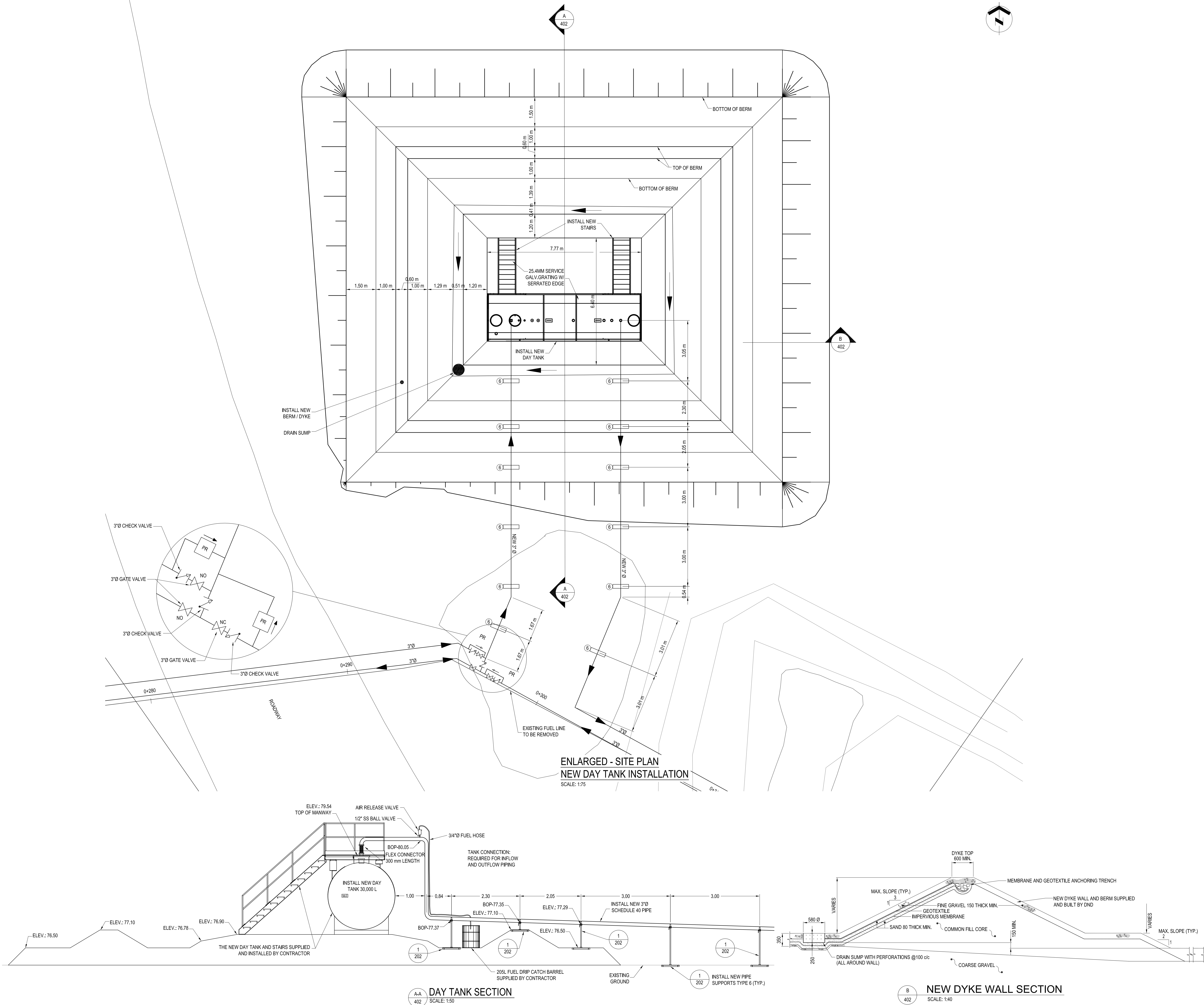
TRADE-MÉTIER MECHANICAL DATE 2013-09-13

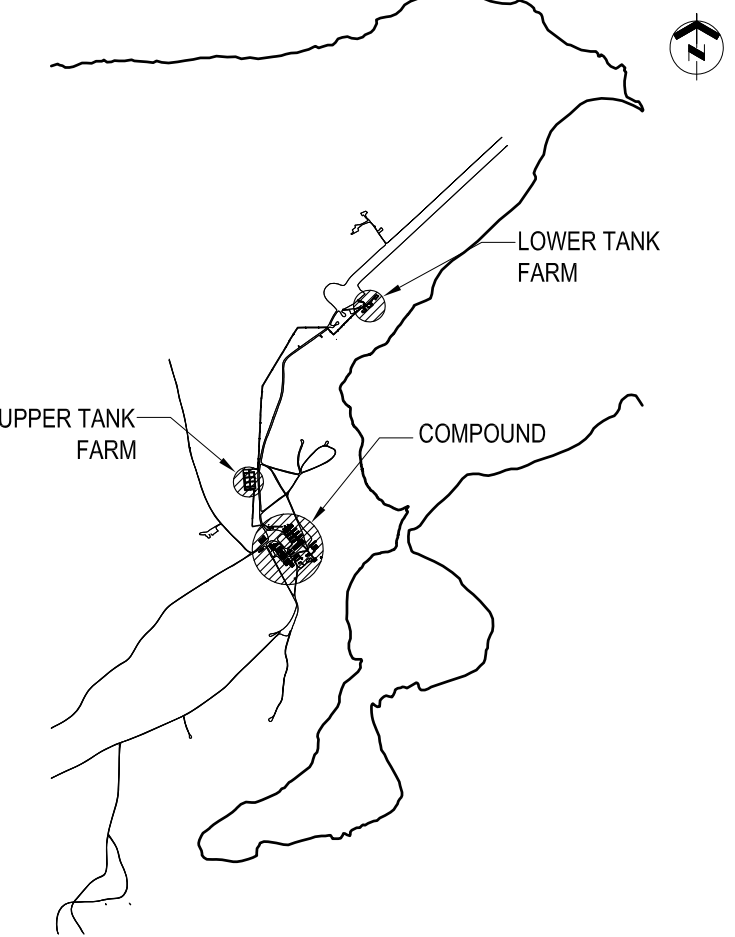
PROPOSED NEW DAY TANK
ENLARGED PLAN & SECTION

PRODUCTION	CONCURRENCE-ASSENTMENT
DESIGNED ÉTUDE	USERS GROUP
DRAWN DESSINE	P.J.P. O'LEARY PROJ. MGR.
CHECKED VÉRIFIÉ	FIRE CHIEF CAPT. P. MUSCAT-DRAGO
COORDINATION	APPROVED - APPROUVÉ S. CHINNATAMBY, ENG O

DWG. NO.-DESSIN NO. L - A28 -9312/3 - 402

Canada

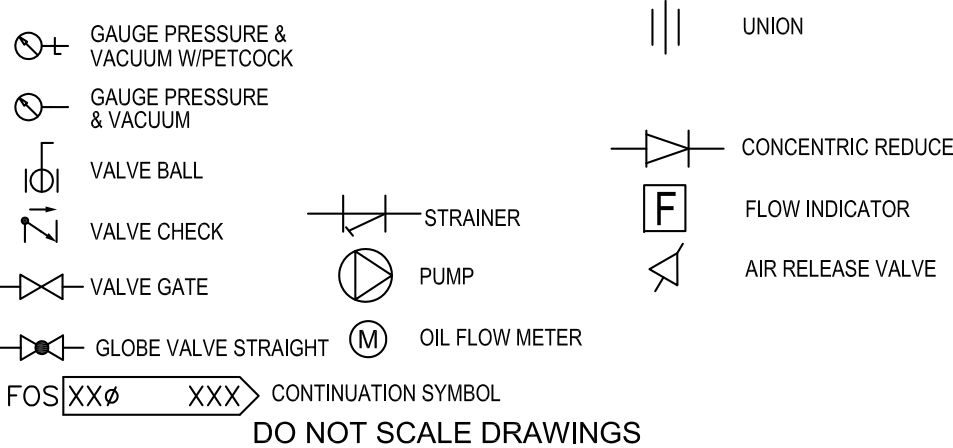




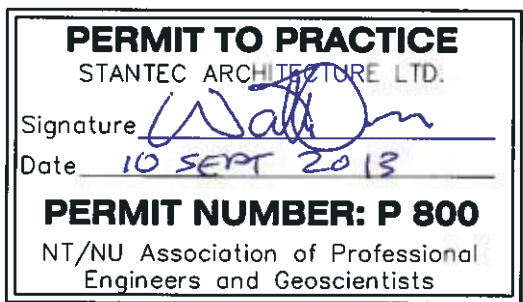
GENERAL NOTES

- PIPE SIZES SHOWN IN NPS (INCHES).
- FLASH AND SEAL WALL PENETRATIONS WATER TIGHT
- ALL FUEL PIPING, FITTINGS AND ALL OTHER APPURTENANCES TO BE NEW.
- FIELD VERIFY ALL MEASUREMENTS.
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PROJECT-PROJET	PF#: 68352

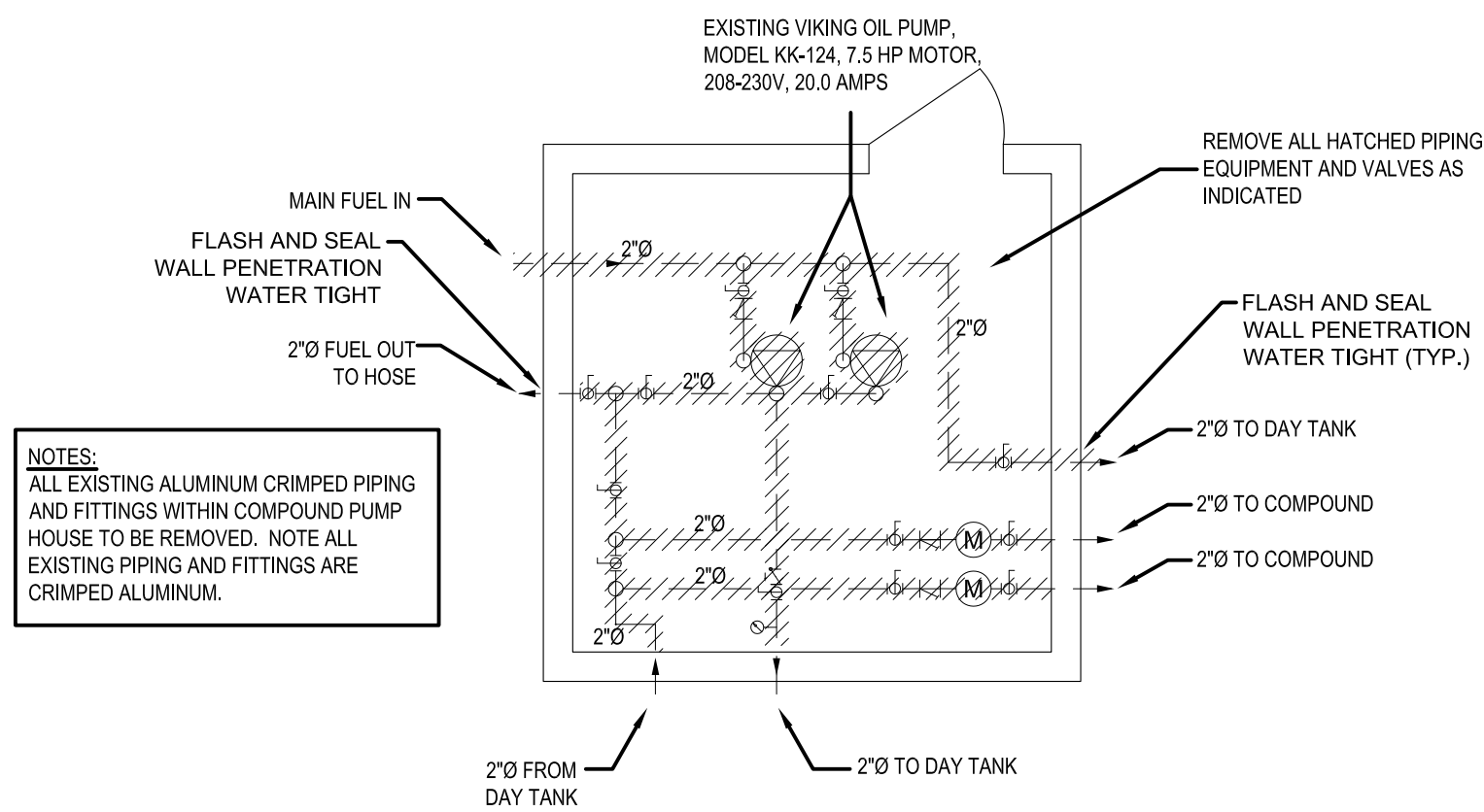
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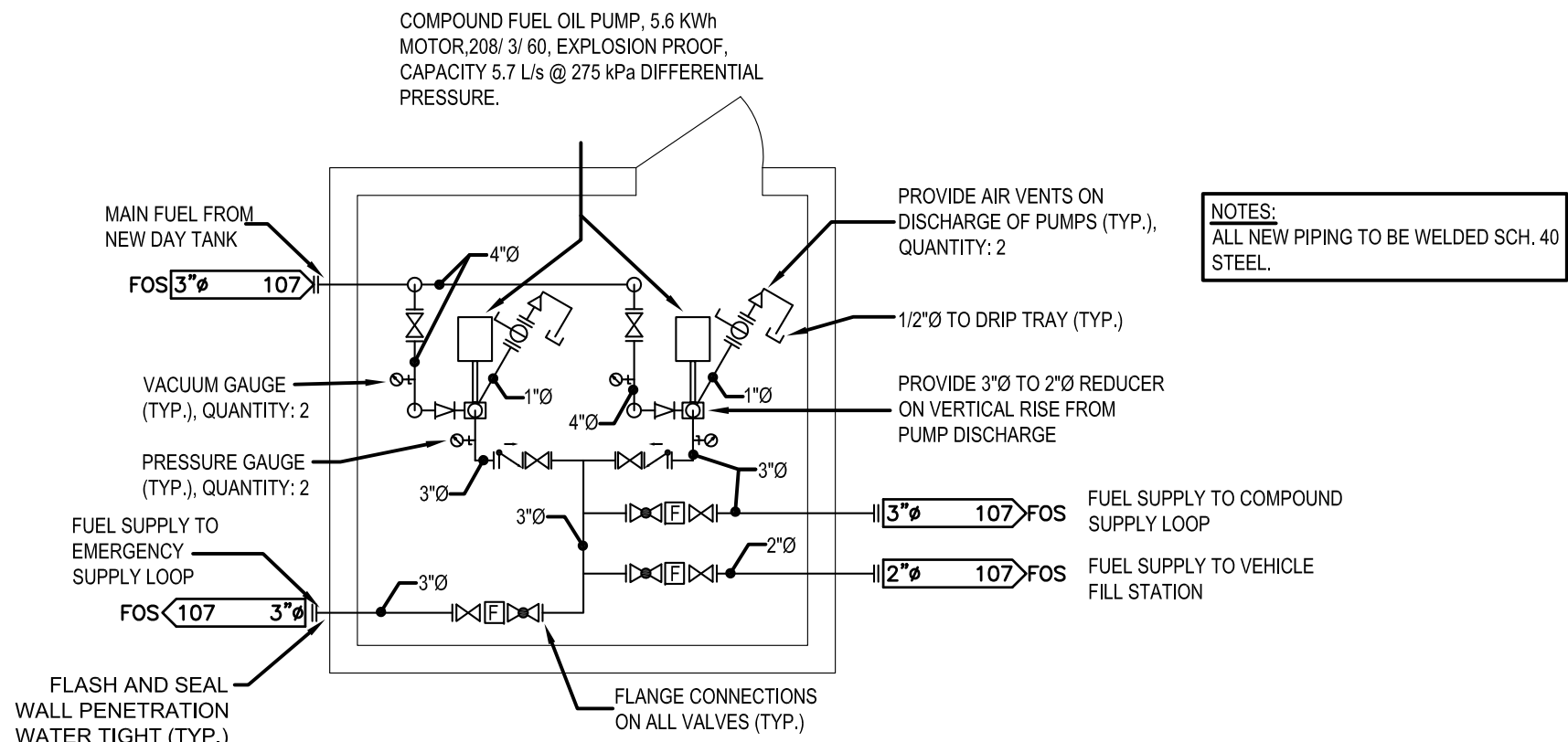
TRADE-MÉTIER	MECHANICAL	DATE	2013-09-13
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MECHANICAL RENOVATIONS
COMPOUND PUMPHOUSE (B015)
AND KEY PLAN
LAYOUT

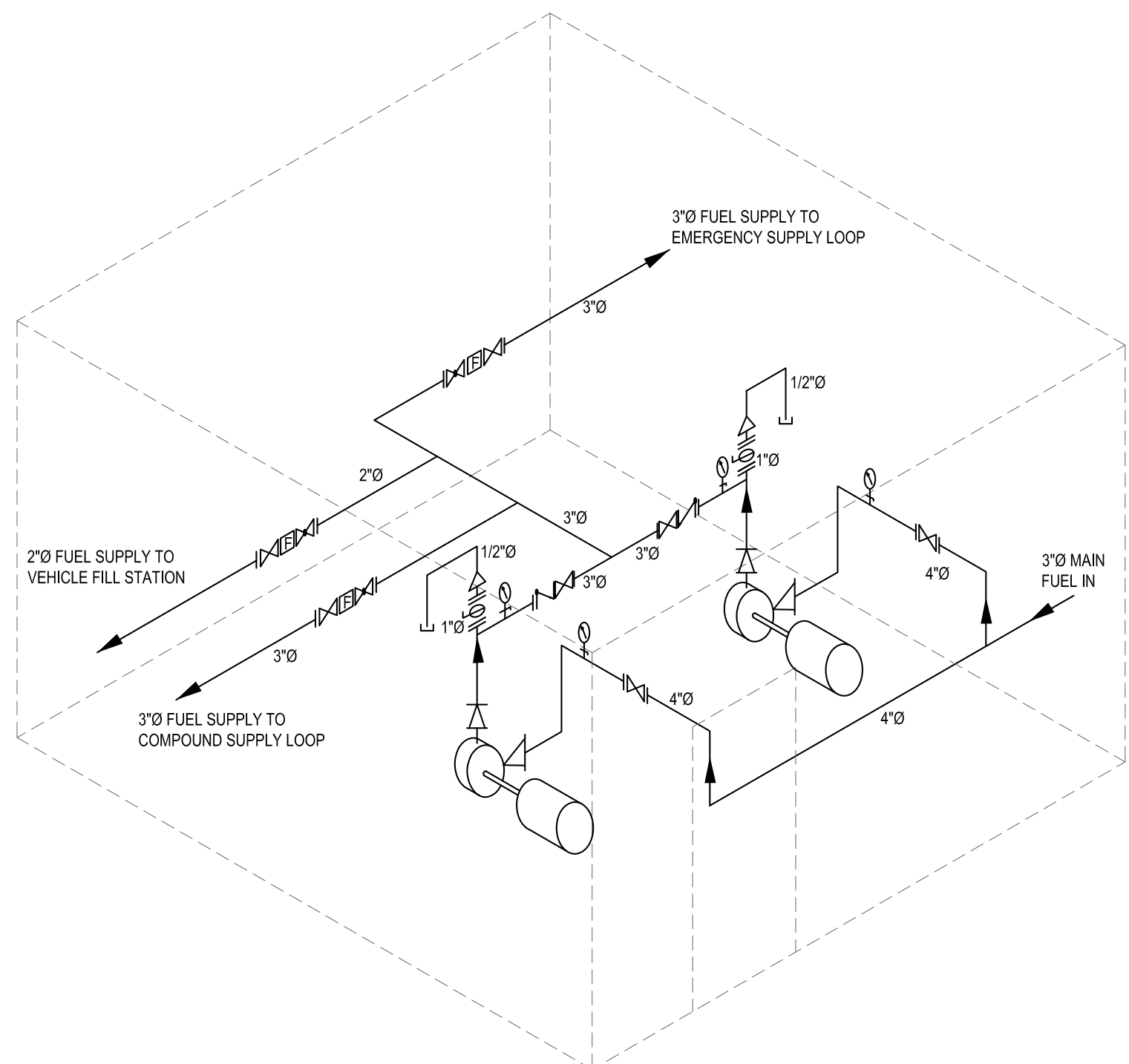
PRODUCTION	CONCURRENCE-ASSENTIMENT	
DESIGNED ETUDIE	USERS GROUP	
DRAWN DESSINE		P.J.P. O'LEARY PROJ. MGR.
CHECKED VÉRIFIÉ		FIRE CHIEF CAPT.P.MUSCAT-DRAGO
COORDINATION	APPROVED - APPROUVÉ S.CHINNATAMBY, ENG O	
DWG.NO.-DESSIN NO.	L - A28 -9312/3 - 403	



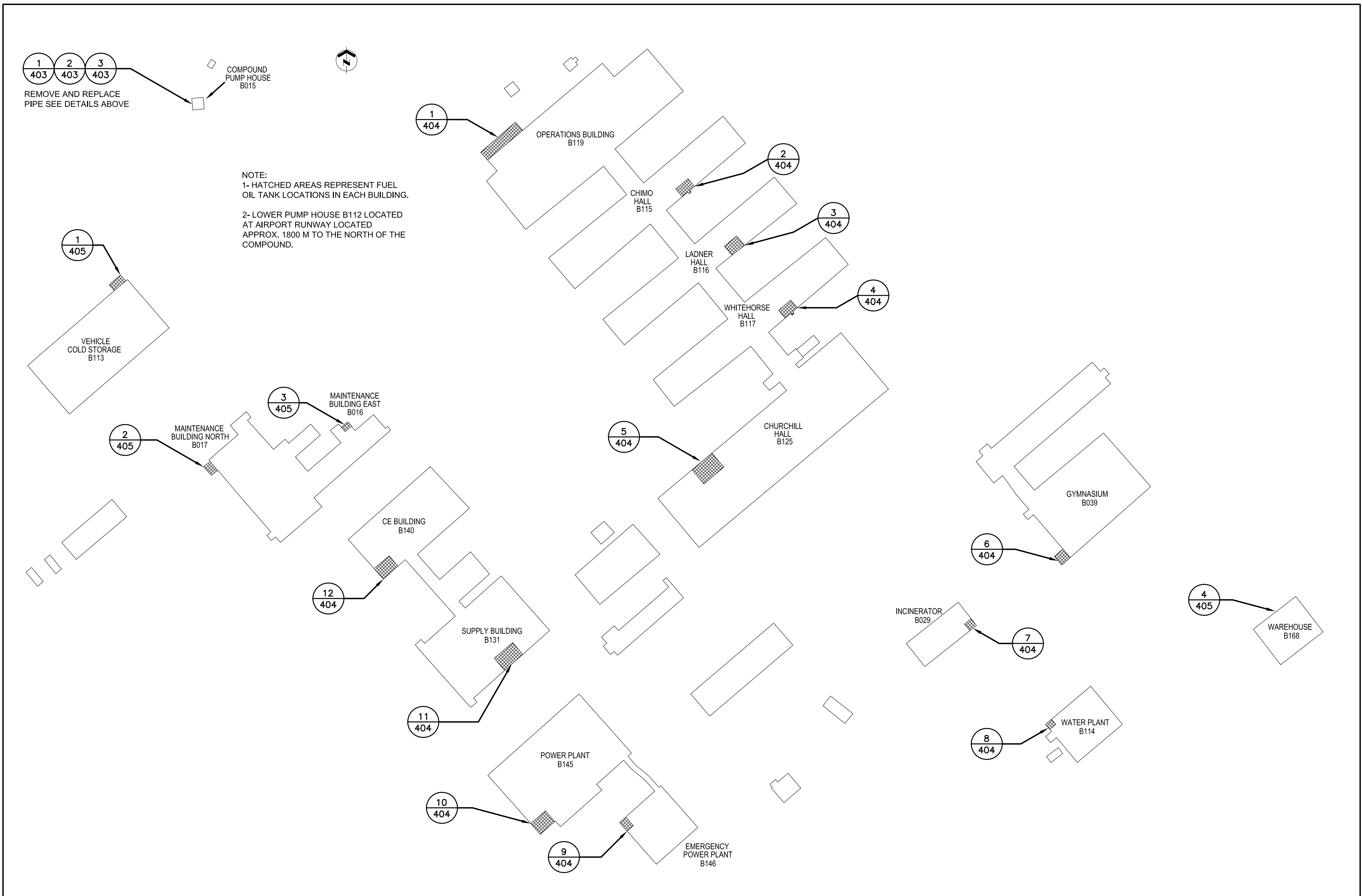
1 PIPING REMOVALS AT COMPOUND PUMPHOUSE B015
403 SCALE: 1:50



2 NEW PIPING LAYOUT INSTALLATION AT COMPOUND PUMPHOUSE B015
403 SCALE: 1:50

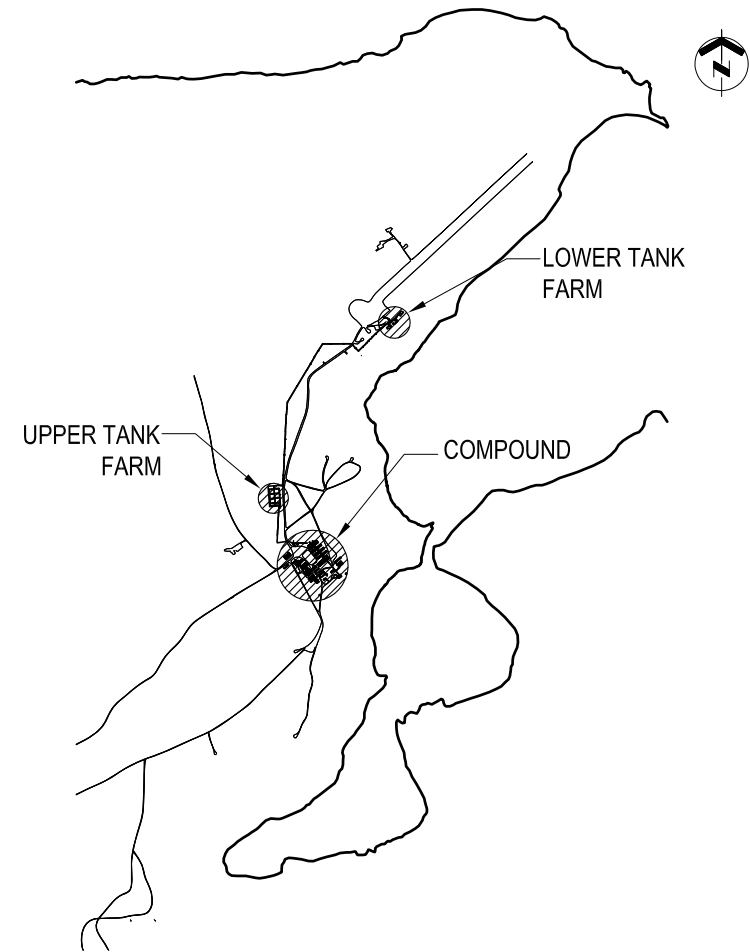


3 NEW PIPING ISOMETRIC AT COMPOUND PUMPHOUSE B015
403 SCALE: N.T.S.



COMPOUND KEY PLAN
SCALE: NTS

WING CONSTRUCTION ENGINEERING SQUADRON
8 WING, TRENTON, ONTARIO

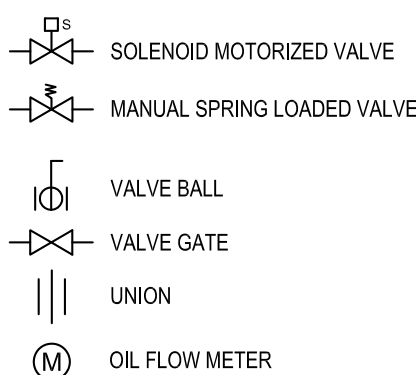


KEY PLAN N. T. S.

GENERAL NOTES

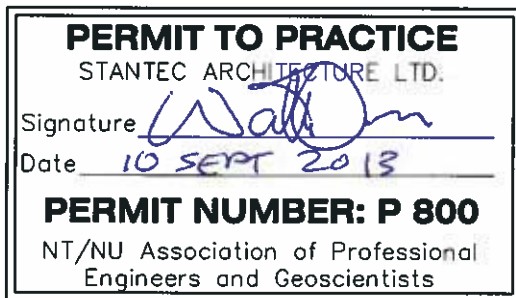
- PIPE SIZES SHOWN IN NPS (INCHES).
- FIELD VERIFY ALL MEASUREMENTS.
- ALL FUEL PIPING, FITTINGS AND ALL OTHER APPURTENANCES TO BE NEW.
- ALL SHUT-OFF VALVES INSTALLED IN FILL PIPES ON THE EXTERIOR OF THE BUILDINGS SHALL BE BALL VALVES *o/w* FLANGE CONNECTIONS.
- FLASH AND SEAL WALL PENETRATIONS WATER TIGHT. CONTRACTOR SHALL DO ALL CUTTING AND PATCHING OF BUILDING MATERIAL AS REQUIRED FOR INSTALLATION OF HIS WORK. PATCHING SHALL BE DONE IN A SKILLFUL MANNER SUCH THAT IT IS NOT NOTICEABLE. PATCH INTERIOR/EXTERIOR WALL/FLOOR OPENINGS AND REPLACE INSULATION/VAPOUR BARRIER ETC. WITH SAME.
- REFER TO DRAWING 501 FOR STATIC ELECTRICITY GROUNDING CONNECTION DETAILS. PROVIDE AND WELD ALL GROUND LUG PLATES TO PIPING ETC. AT ALL LOCATIONS AS REQUIRED.

LEGEND



DO NOT SCALE DRAWINGS

NO.	DATE	REVISION	APPR.
02	13/09/2013	RECORD DRAWING	WO
01	17/02/2012	ISSUED FOR CONSTRUCTION	WO



SCALE-ÉCHELLE	AS NOTED
PROJECT-PROJET	PF#: 68352

UPGRADE MAIN POL COMPOUND

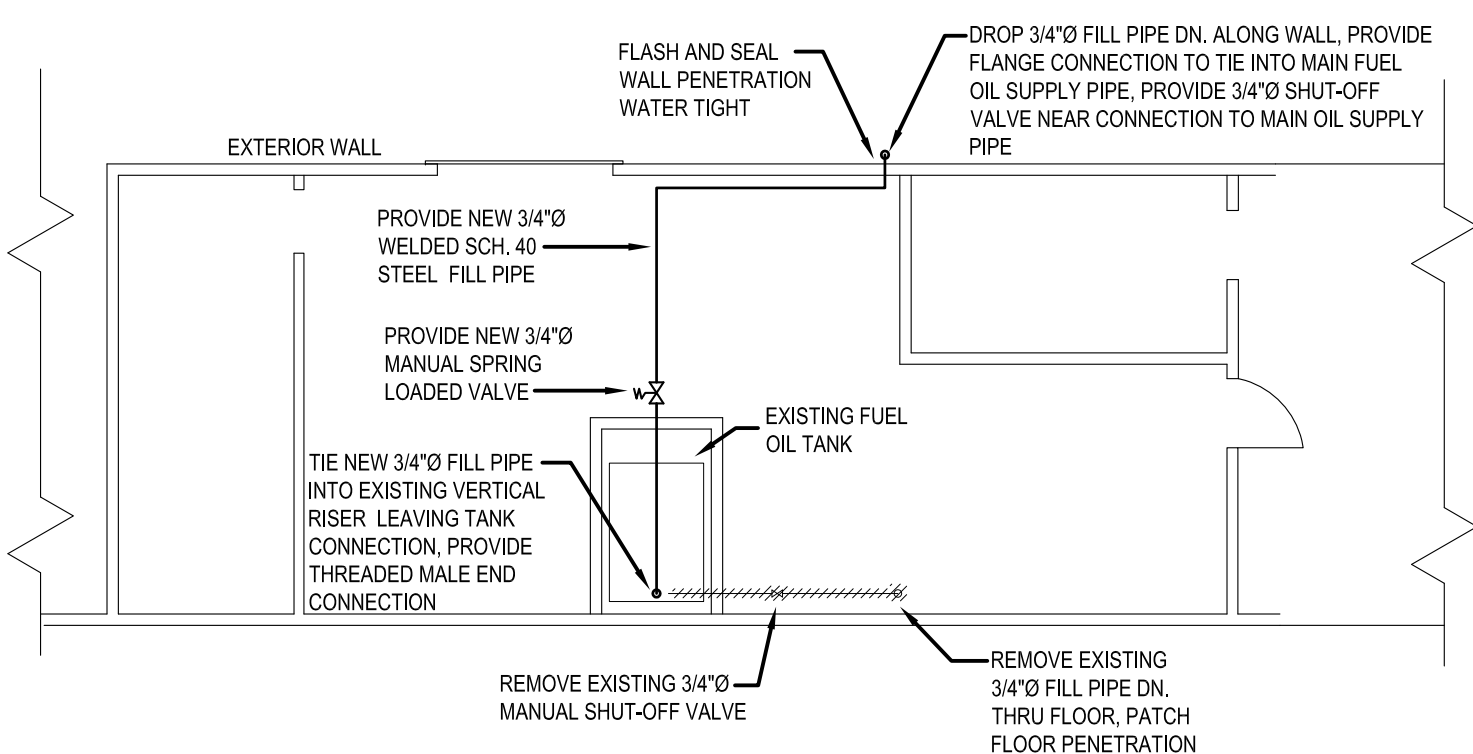
CFS ALERT, NUNAVUT

TRADE-MÉTIER	MECHANICAL	DATE	2013-09-13
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COMPOUND OIL FUEL ROOMS
MECHANICAL RETROFIT PLANS

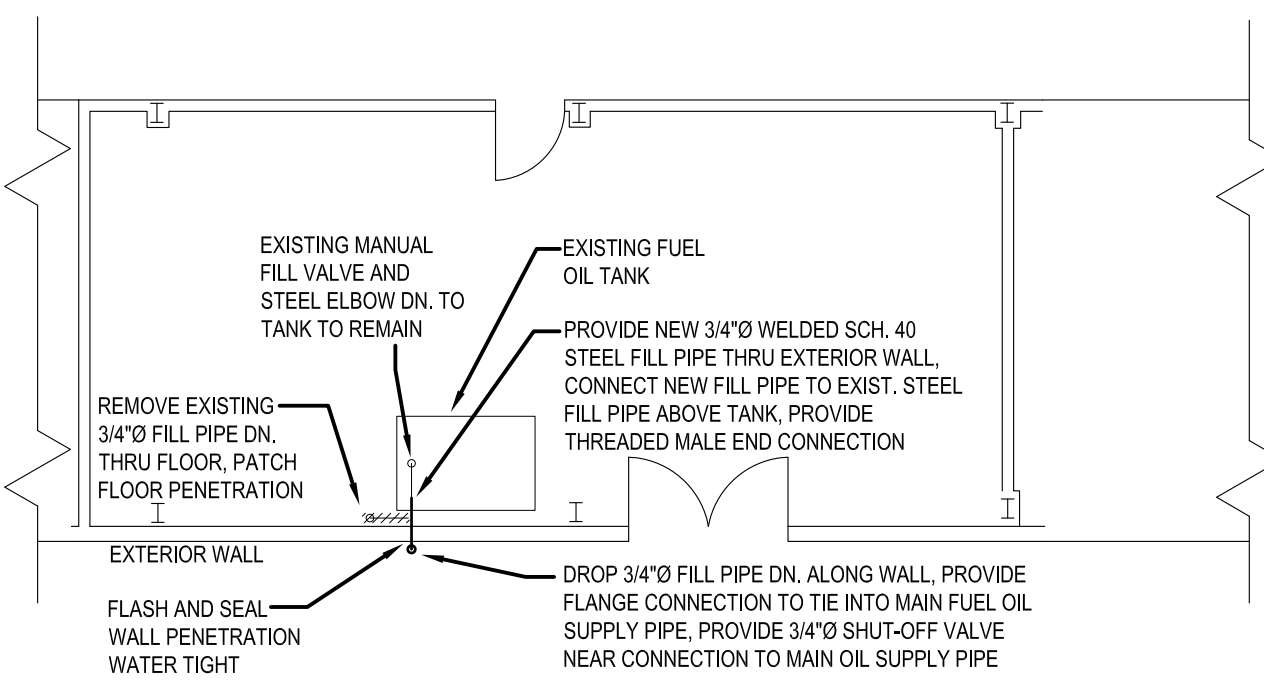
PRODUCTION	CONCURRENCE-ASSENTMENT
DESIGNED ÉTUDE	USERS GROUP
DRAWN DESSINE	P. J. P. O'LEARY PROJ. MGR.
CHECKED VÉRIFIÉ	FIRE CHIEF CAPT. P. MUSCAT-DRAGO
COORDINATION	APPROVED - APPROUVÉ S. CHINNATAMBY, ENG O
DWG.NO.-DESSIN NO.	L - A28 -9312/3 - 404

Canada



1 OPERATIONS BUILDING (B119) MECHANICAL ROOM LAYOUT

SCALE: 1:100



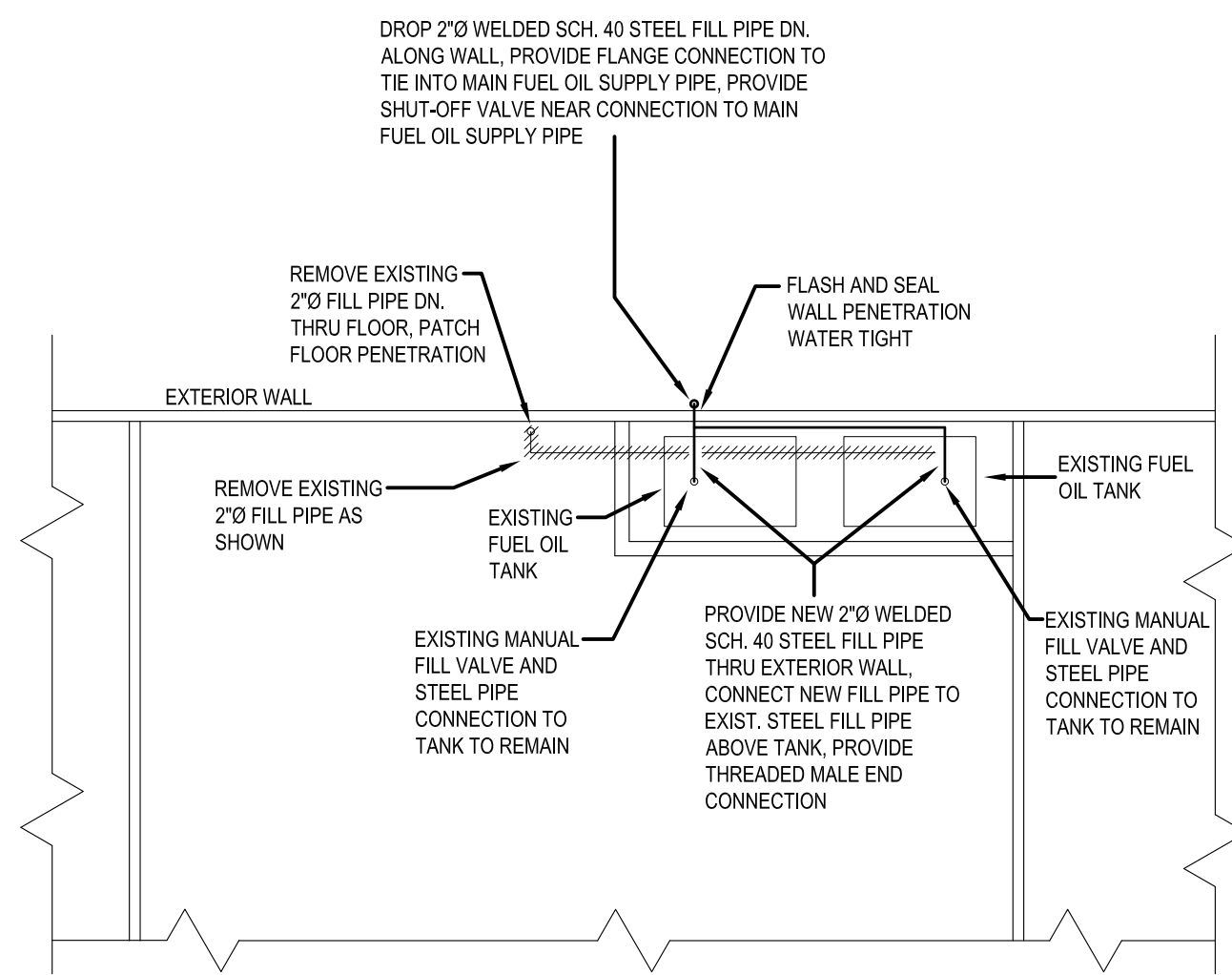
2 CHIMO BUILDING (B115) MECHANICAL ROOM LAYOUT

SCALE: 1:100

TYPICAL FOR FOLLOWING BUILDINGS:

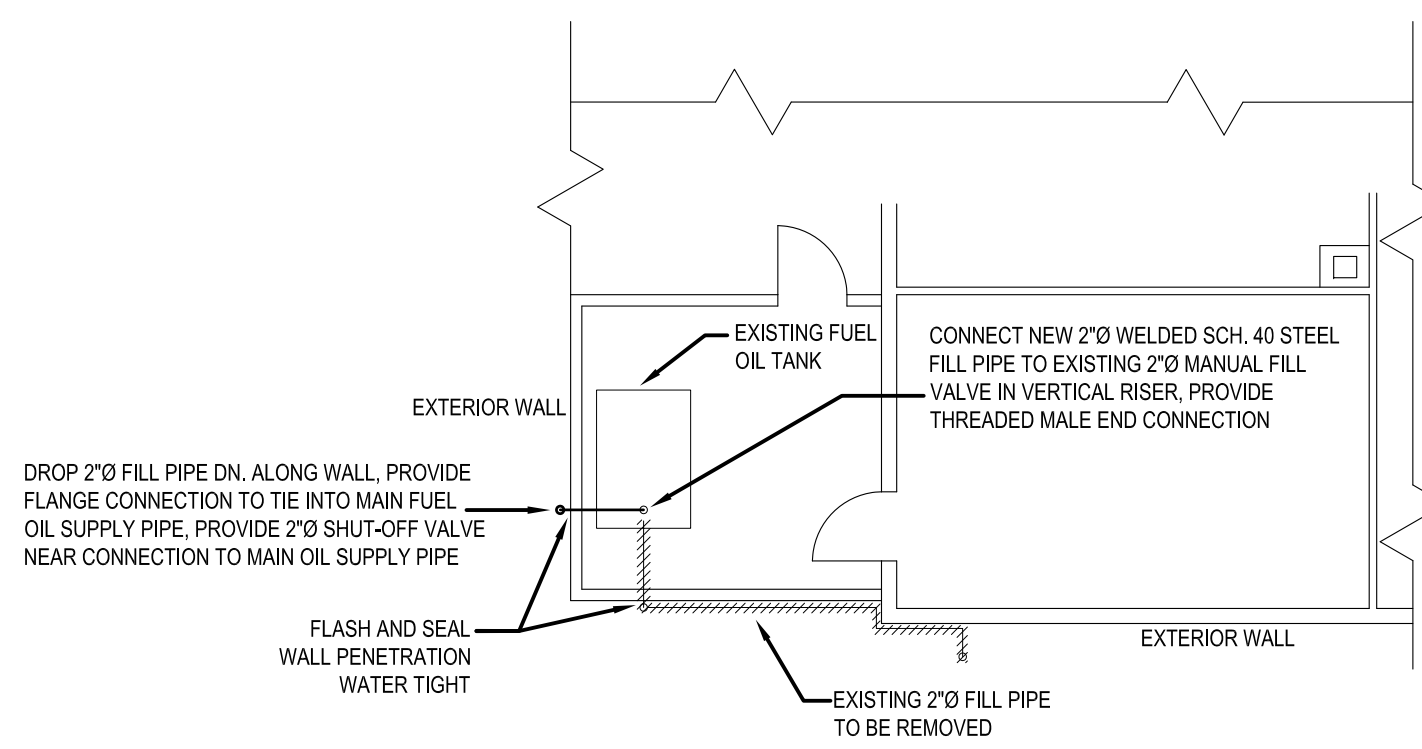
3 LADNER HALL (116)

4 WHITEHORSE HALL (117)



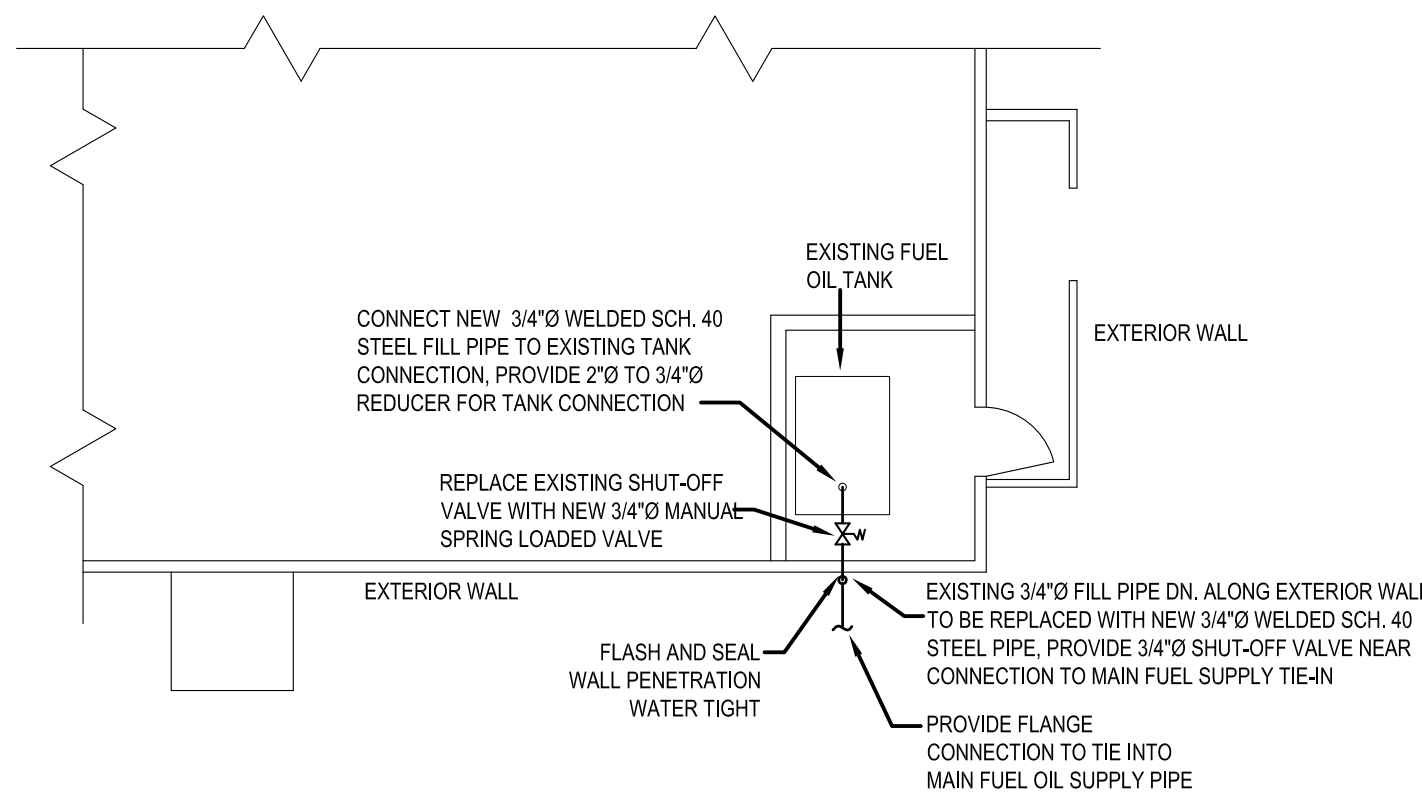
5 CHURCHILL (B125) MECHANICAL ROOM LAYOUT

SCALE: 1:100



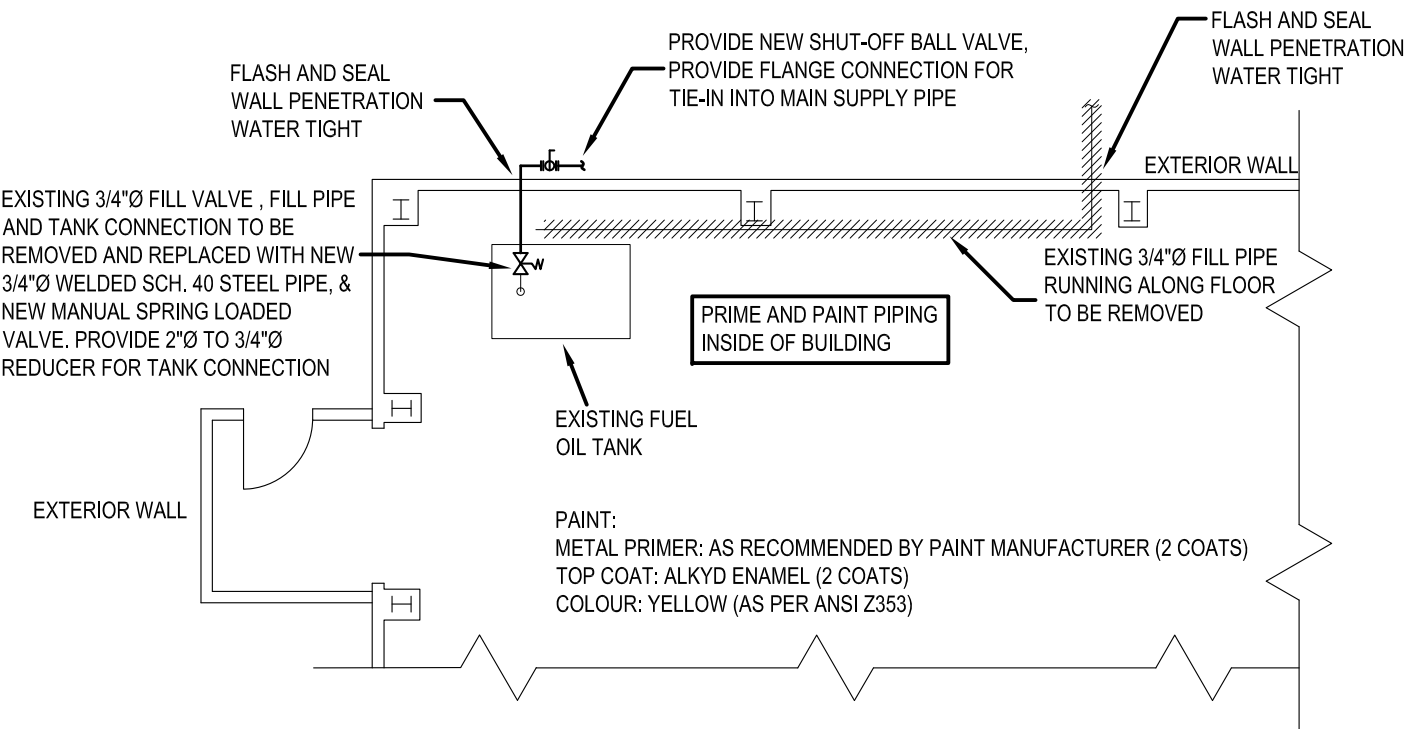
6 GYMNASIUM (B039) MECHANICAL ROOM

SCALE: 1:100



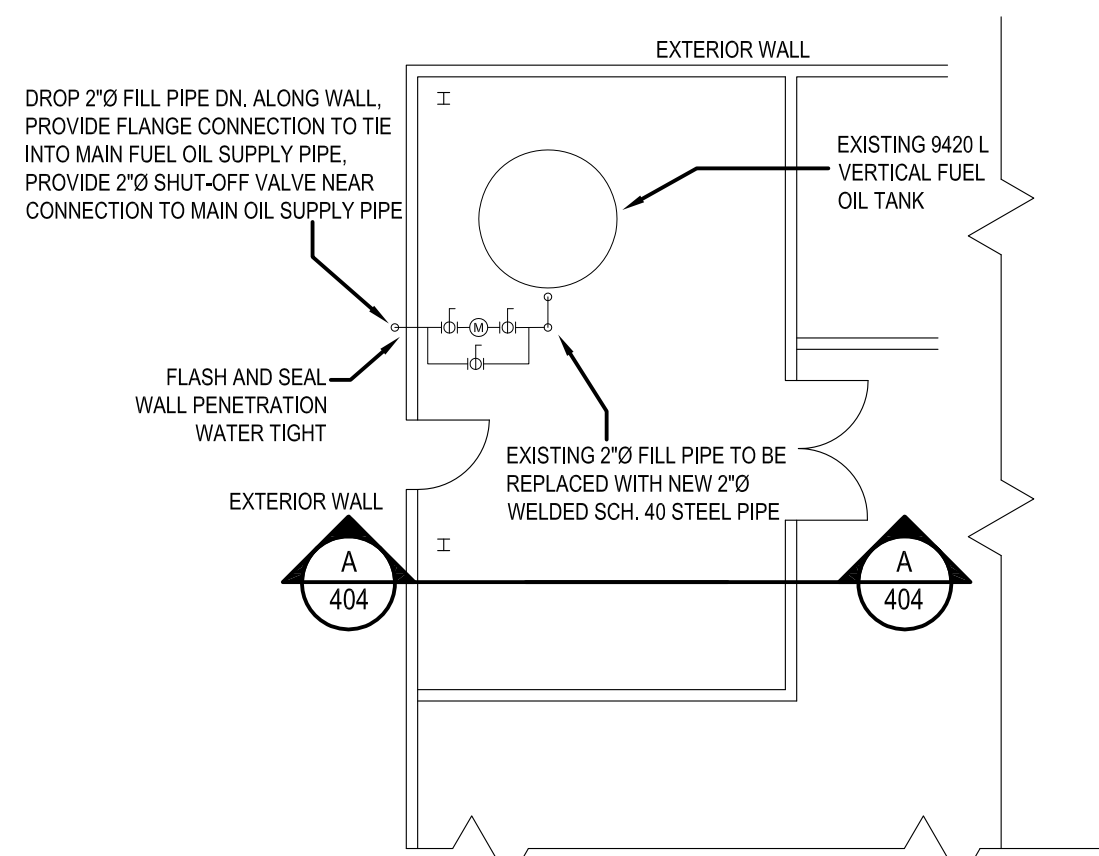
7 INCINERATOR (B029) MECHANICAL ROOM LAYOUT

SCALE: 1:100



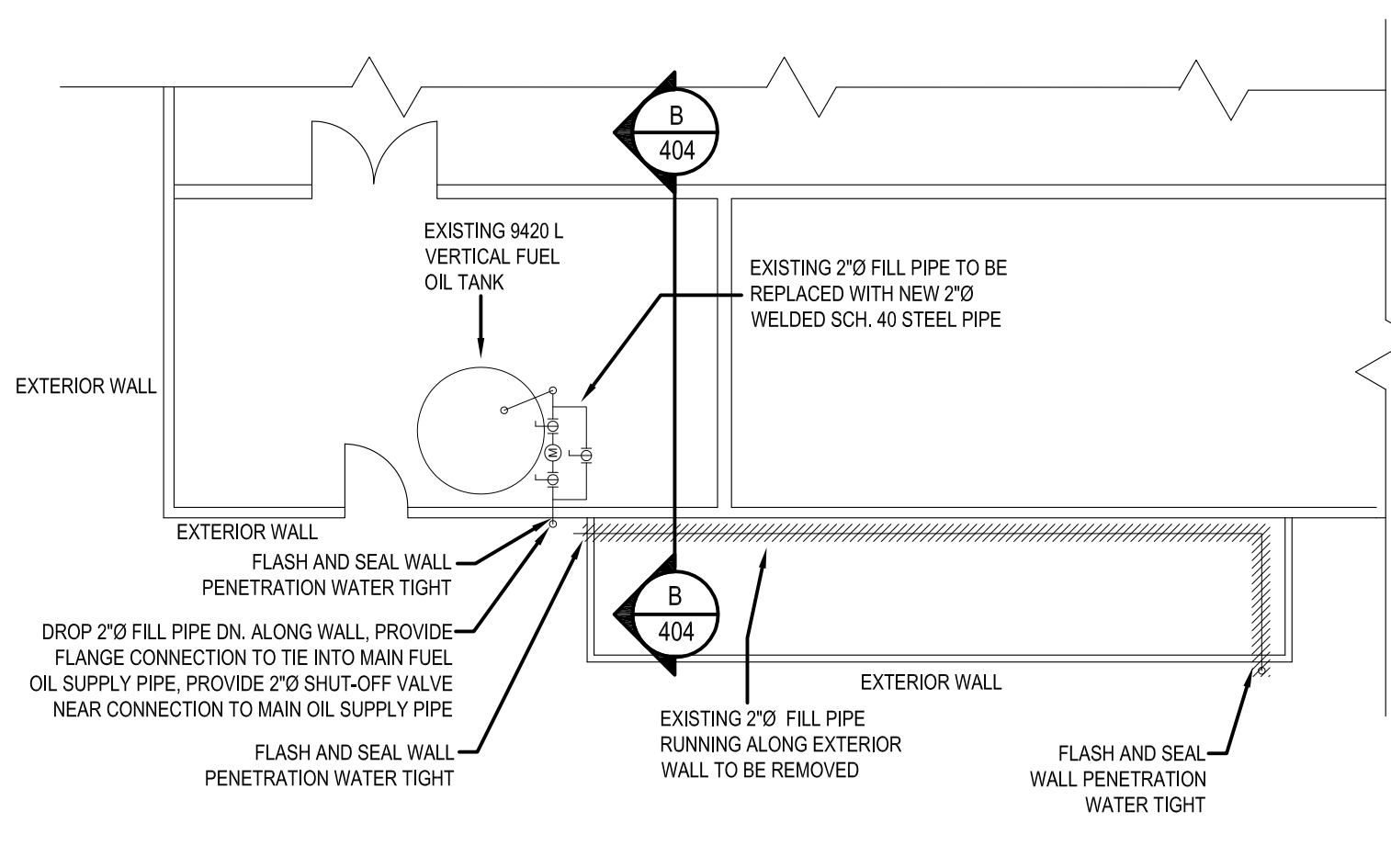
8 WATER PLANT (B114) PLAN

SCALE: 1:100



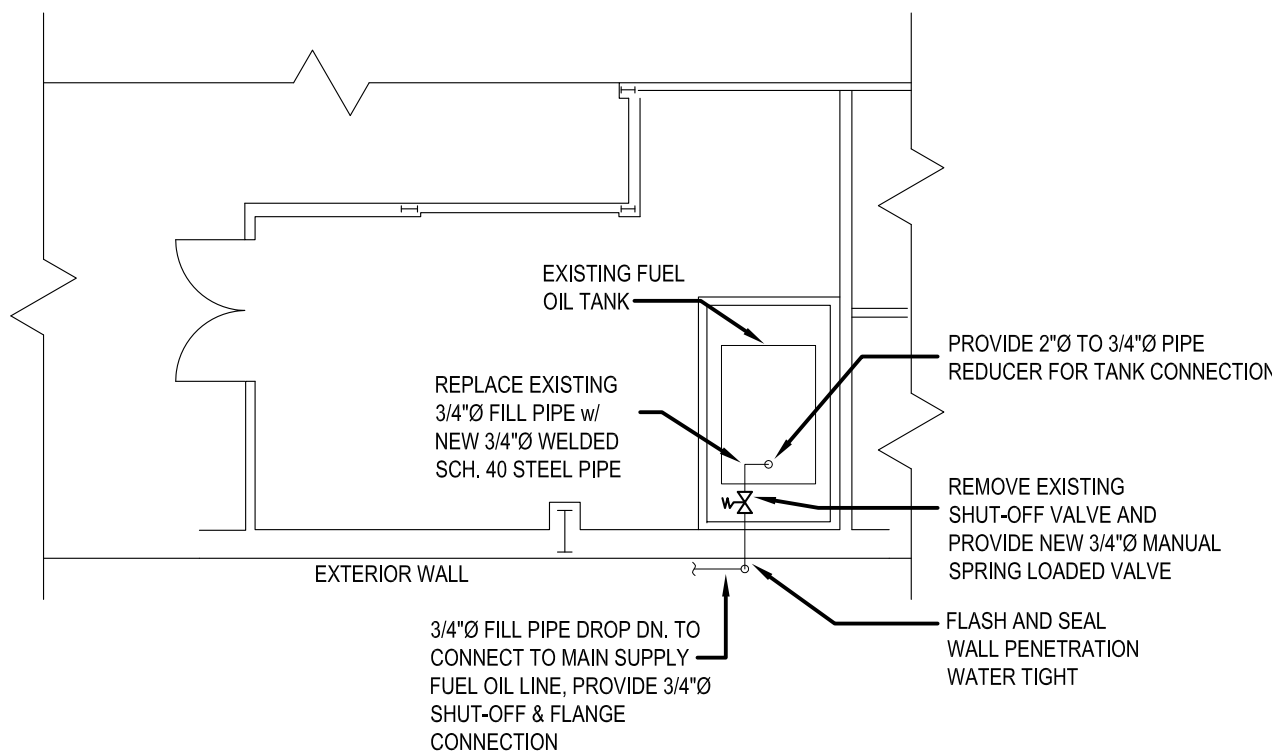
9 EMERGENCY POWER PLANT (B146) FUEL OIL ROOM

SCALE: 1:100



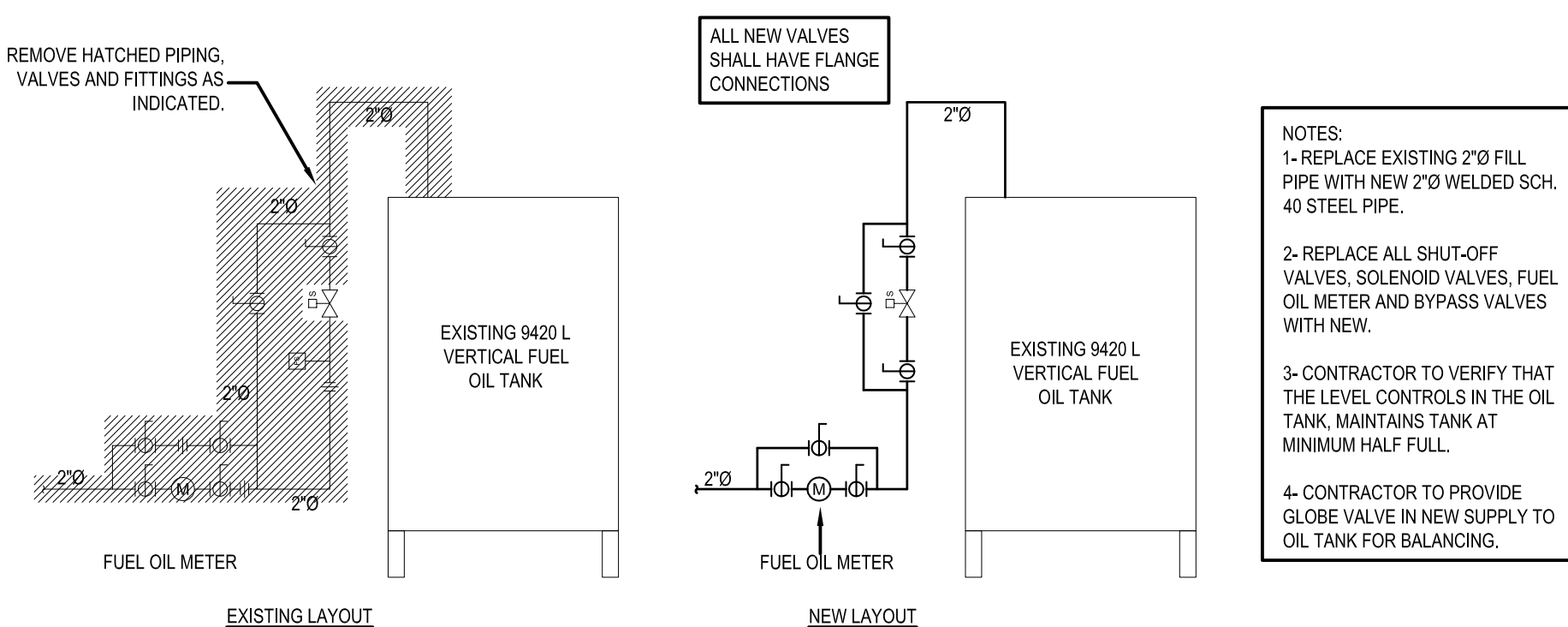
10 POWER PLANT (B145) FUEL OIL ROOM

SCALE: 1:100



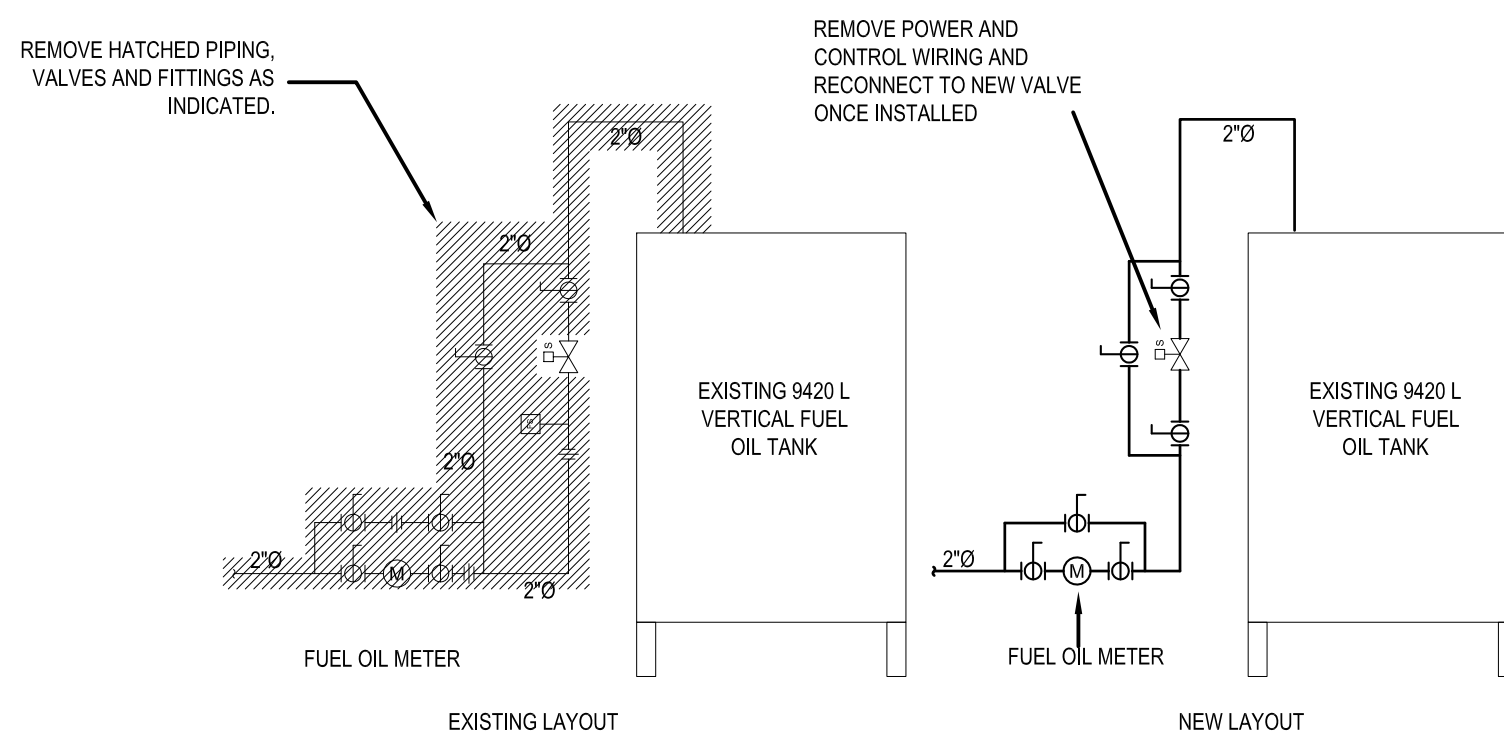
11 SUPPLY BUILDING (B131) MECH. ROOM

SCALE: 1:100



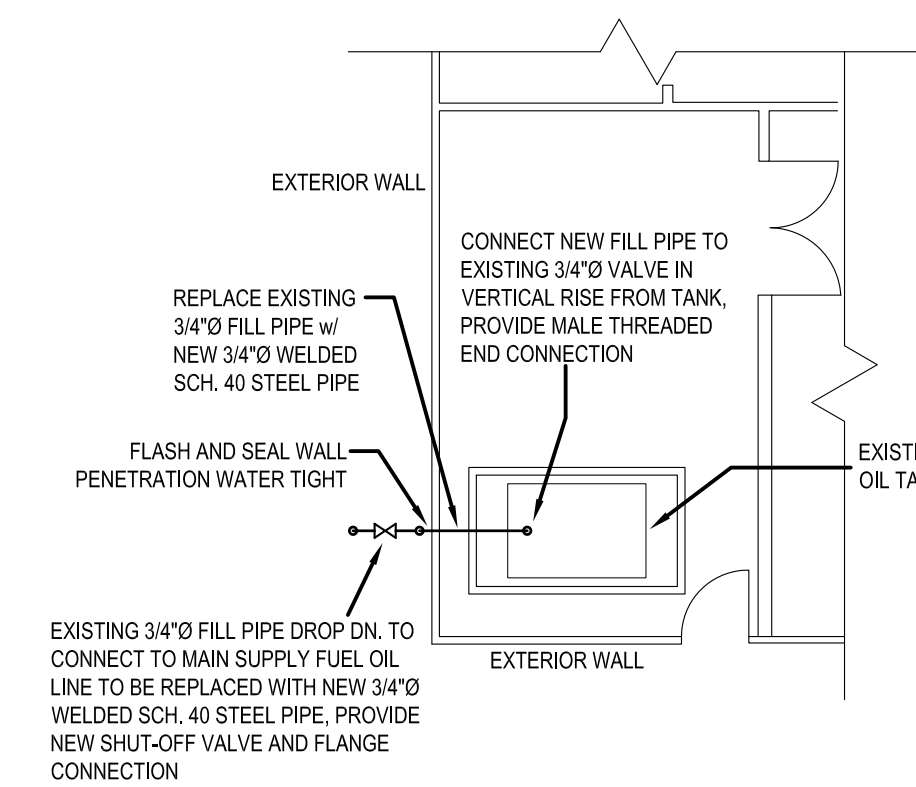
A-A EMERGENCY POWER PLANT TANK (B146) SCHEMATIC

SCALE: 1:50



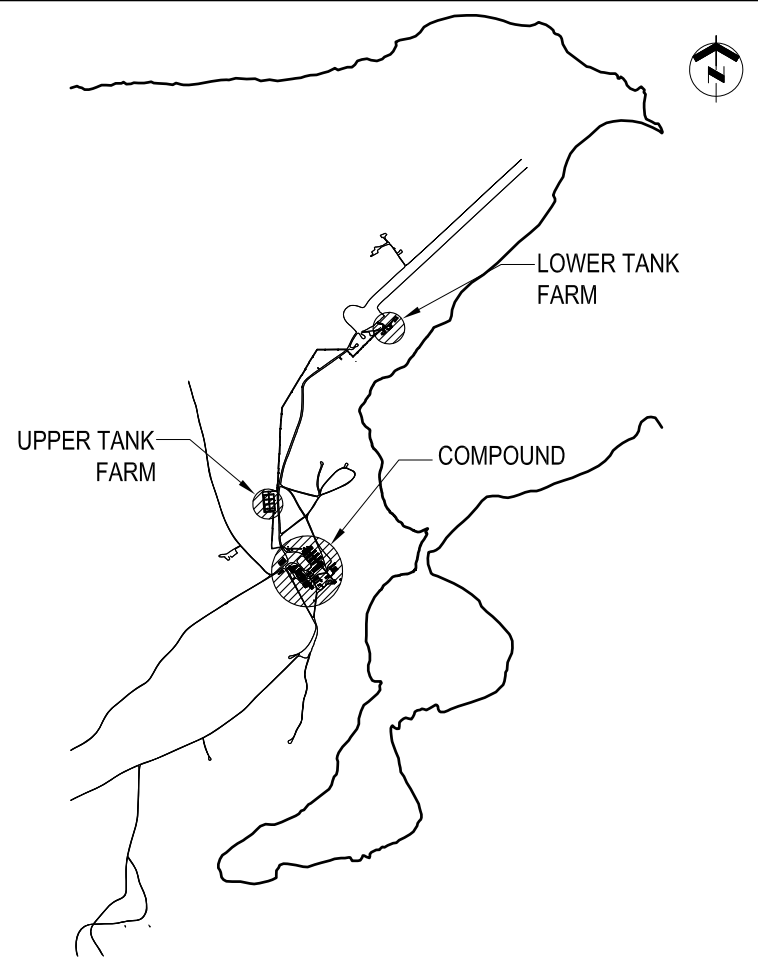
B-B POWER PLANT TANK (B145) SCHEMATIC

SCALE: 1:50



12 CE BUILDING (B140) MECH. ROOM

SCALE: 1:100



KEY PLAN N.T.S.

GENERAL NOTES

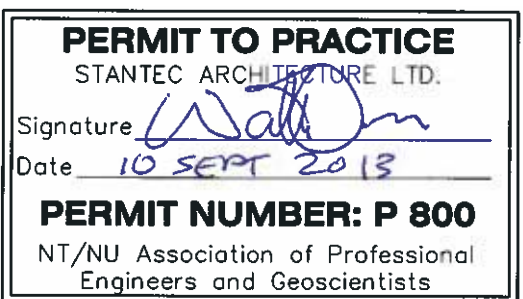
- PIPE SIZES SHOWN IN NPS (INCHES).
- DIMENSIONS SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED.
- FIELD VERIFY ALL MEASUREMENTS.
- ALL SHUT-OFF VALVES INSTALLED IN FILL PIPES ON THE EXTERIOR OF THE BUILDINGS SHALL BE BALL VALVES c/w FLANGE CONNECTIONS.
- FLASH AND SEAL WALL PENETRATIONS WATER TIGHT.
- CONTRACTOR SHALL DO ALL CUTTING AND PATCHING OF BUILDING MATERIAL AS REQUIRED FOR INSTALLATION OF HIS WORK. PATCHING SHALL BE DONE IN A SKILLFUL MANNER SUCH THAT IT IS NOT NOTICEABLE. PATCH INTERIOR/EXTERIOR WALL/FLOOR OPENINGS AND REPLACE INSULATION/VAPOUR BARRIER ETC. WITH SAME.
- REFER TO DRAWING 501 FOR STATIC ELECTRICITY GROUNDING CONNECTION DETAILS. PROVIDE AND WELD ALL GROUND LUG PLATES TO PIPING ETC. AT ALL LOCATIONS AS REQUIRED.

LEGEND

- SOLENOID MOTORIZED VALVE
- MANUAL SPRING LOADED VALVE
- UNION
- VALVE GATE

DO NOT SCALE DRAWINGS

NO.	DATE	REVISION	APPR.
02	13/09/2013	RECORD DRAWING	WO
01	17/02/2012	ISSUED FOR CONSTRUCTION	WO



SCALE-ÉCHELLE	AS NOTED
PROJECT-PROJET	PF#: 68352

UPGRADE MAIN POL COMPOUND

CFS ALERT, NUNAVUT

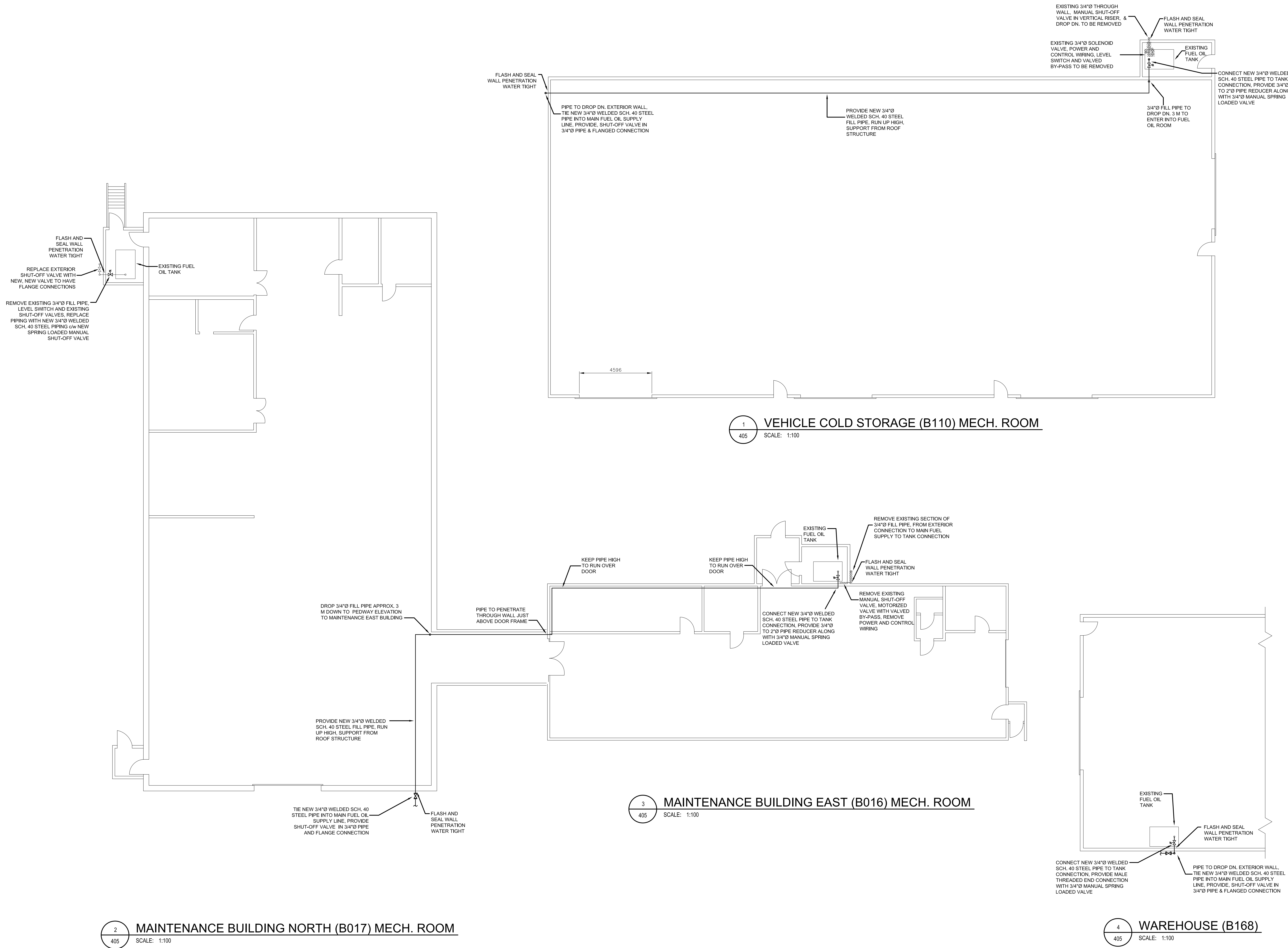
TRADE-MÉTIER	MECHANICAL	DATE	2013-09-13
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FUEL OIL TANK
MECHANICAL RENOVATIONS
MAINTENANCE (B016 & B017) &
VEHICLE COLD STORAGE BUILDING (B110) &
WAREHOUSE (B168)

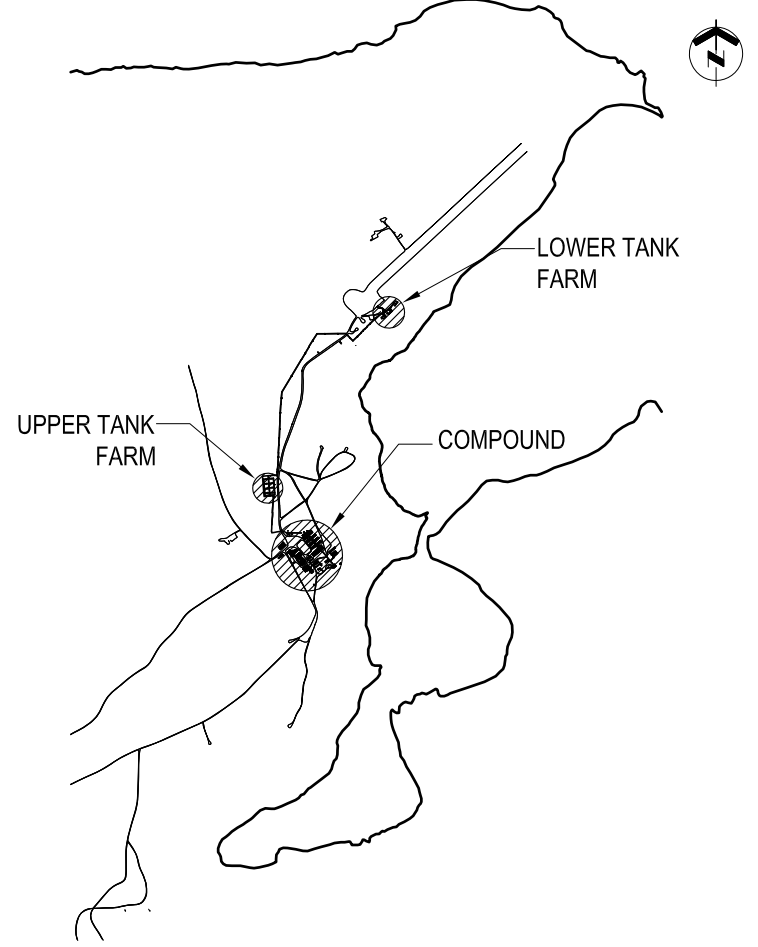
PRODUCTION	CONCURRENCE-ASSENTIMENT	
DESIGNED ÉTUDE	USERS GROUP	
DRAWN DESSINE		P.J.P. O'LEARY PROJ. MGR.
CHECKED VÉRIFIÉ		FIRE CHIEF CAPT.P.MUSCAT-DRAGO
COORDINATION	APPROVED - APPROUVÉ S.CHINNATAMBY, ENG O	

DWG.NO.-DESSIN NO. L - A28 -9312/3 - 405

Canada



WING CONSTRUCTION ENGINEERING SQUADRON
8 WING, TRENTON, ONTARIO



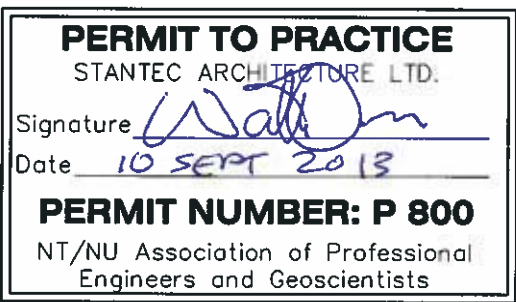
KEY PLAN N. T. S.

GENERAL NOTES

LEGEND

DO NOT SCALE DRAWINGS

02	13/09/2013	RECORD DRAWING	WO
01	17/02/2012	ISSUED FOR CONSTRUCTION	WO
NO.	DATE	REVISION	APPR.



SCALE-ÉCHELLE AS NOTED

PROJECT-PROJET PF#: 68352

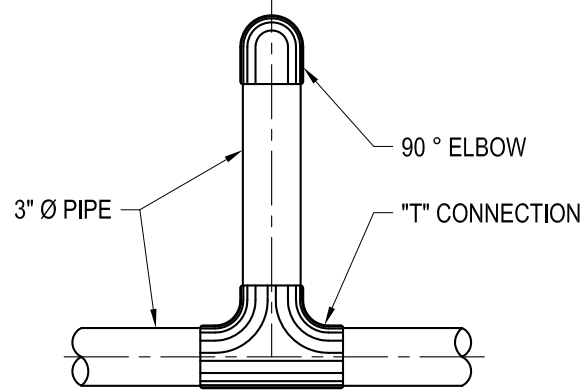
UPGRADE MAIN POL COMPOUND

CFS ALERT, NUNAVUT

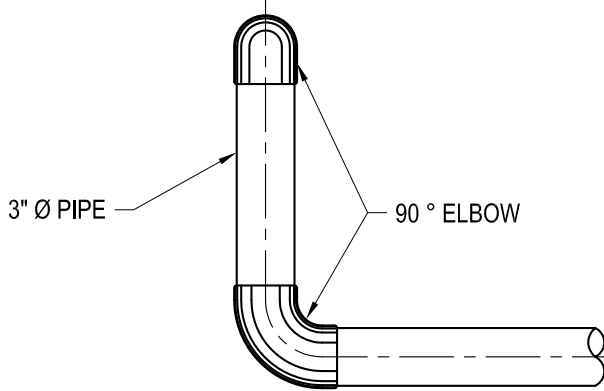
TRADE-MÉTIER CIVIL/STRUCTURAL DATE 2013-09-13

MECHANICAL DETAILS

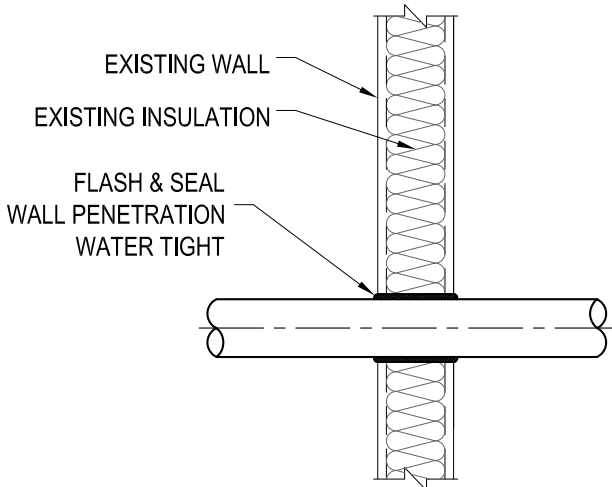
PRODUCTION	CONCURRENCE-ASSENTIMENT	
DESIGNED ÉTUDE	USERS GROUP	
DRAWN DESSINE		P. J. P. O'LEARY PROJ. MGR.
CHECKED VÉRIFIÉ		FIRE CHIEF CAPT. P. MUSCAT-DRAGO
COORDINATION	APPROVED - APPROUVÉ S. CHINNATAMBY, ENG O	
DWG. NO.-DESSIN NO.	L - A28 -9312/3 - 406	



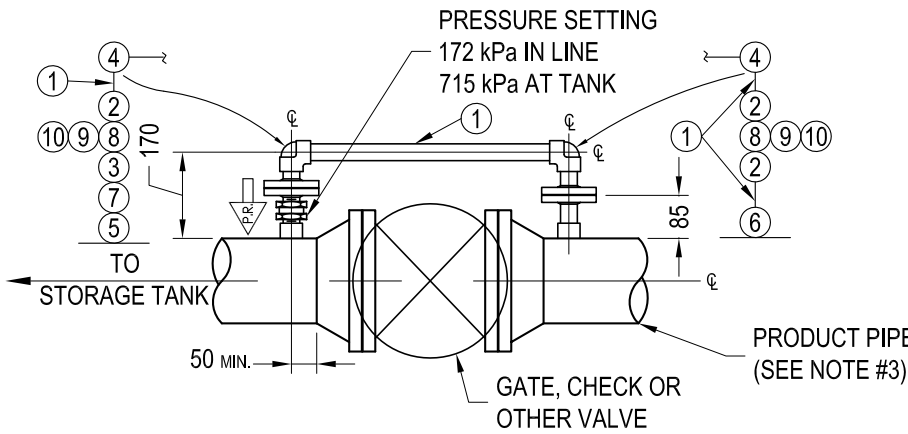
1 BUILDING FUEL "T" CONNECTION
406 SCALE: N.T.S



2 BUILDING FUEL END OF LINE CONNECTION
406 SCALE: N.T.S



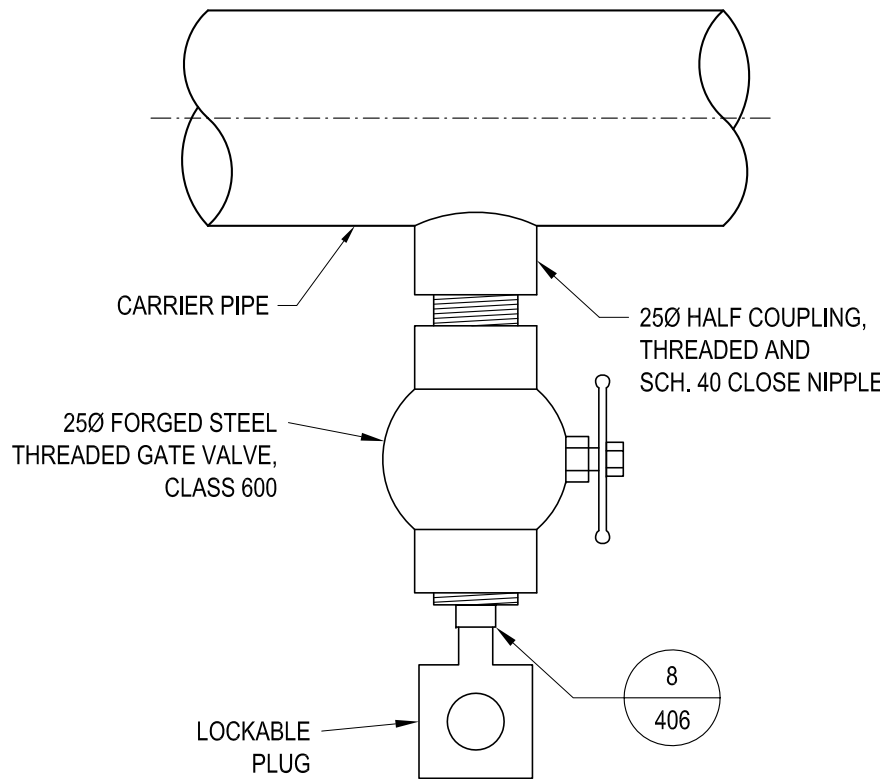
3 BUILDING FUEL WALL PENETRATION
406 SCALE: N.T.S



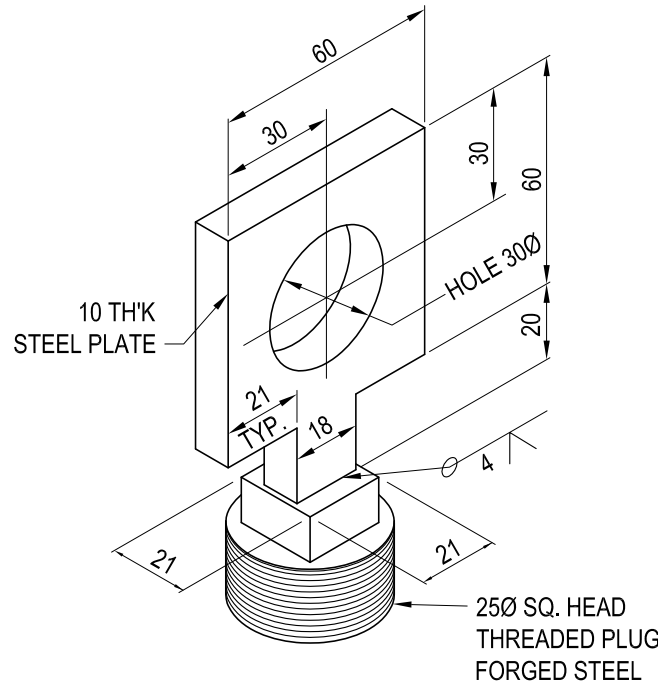
6 PRESSURE RELIEF DETAILS
406 SCALE: N.T.S.
(BASIC ARRANGEMENT, RIGHT HAND SHOWN, LEFT HAND ON OPPOSITE SIDE)

SCHEDULE OF MATERIAL		
ITEM	SIZE	DESCRIPTION
1	1"	PIPE
2		SLIP-ON FLANGE
3		THREADED FLANGE
4		ELBOW 90°, SOCKET WELD
5		HALF COUPLING, THREADED
6		HALF COUPLING, SOCKET WELD
7		THERMAL PRESSURE RELIEF VALVE (SEE NOTES #1, 2, & 3)
8		GASKET
9	1/2"x2.5" L.G.	STUD BOLT
10	1/2"	NUT (2 EACH BOLT)

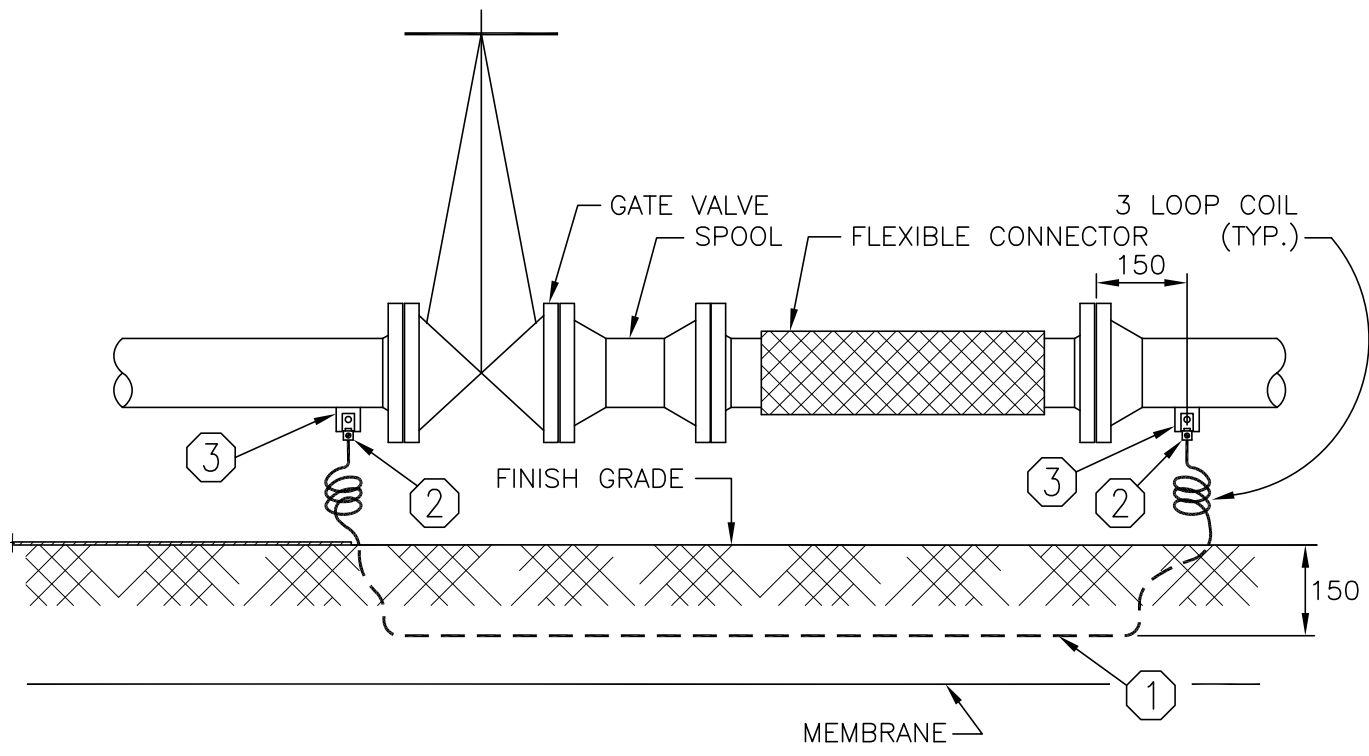
- NOTES:
1. INLINE TYPE PRESSURE RELIEF VALVE WITH ENGRAVED ARROW ON ONE SIDE OF VALVE (TO INDICATE DIRECTION IN WHICH PRESSURE IS TO BE RELIEVED).
 2. ENSURE THAT NAMEPLATE IS NOT DAMAGED OR PAINTED OVER.
 3. BASIC ARRANGEMENT SHOWN IS APPLICABLE TO PRODUCT PIPE 2" THRU 6" DIAMETER.
 4. HOLES AT FLANGES TO BE STRADDLED ABOUT HORIZONTAL & VERTICAL AXIS OF PIPE.
 5. FOR MORE DESCRIPTION OF ITEMS REFER TO SPECIFICATIONS.
 6. SEE SPECIFICATIONS. FOR ALTERNATIVE INSTALLATION ON VALVE BODY.



7 WATER DRAIN DETAIL
406 SCALE: 1:4



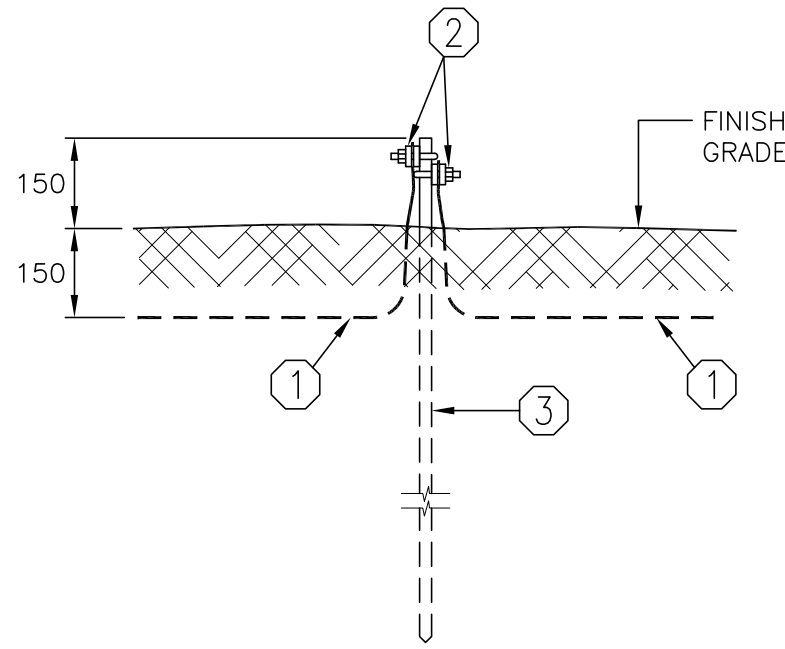
8 LOCKABLE PLUG DETAIL
406 SCALE: 1:2



LIST OF MATERIAL	
ITEM	DESCRIPTION
①	#4 STRANDED BARE COPPER GROUND WIRE
②	COPPER MECHANICAL CONNECTOR ATTACHED WITH BRASS BOLT & NUTS
③	GROUND LUG PLATE 40 x 40 x 6 TH'K

ELECTRICAL DETAIL 1

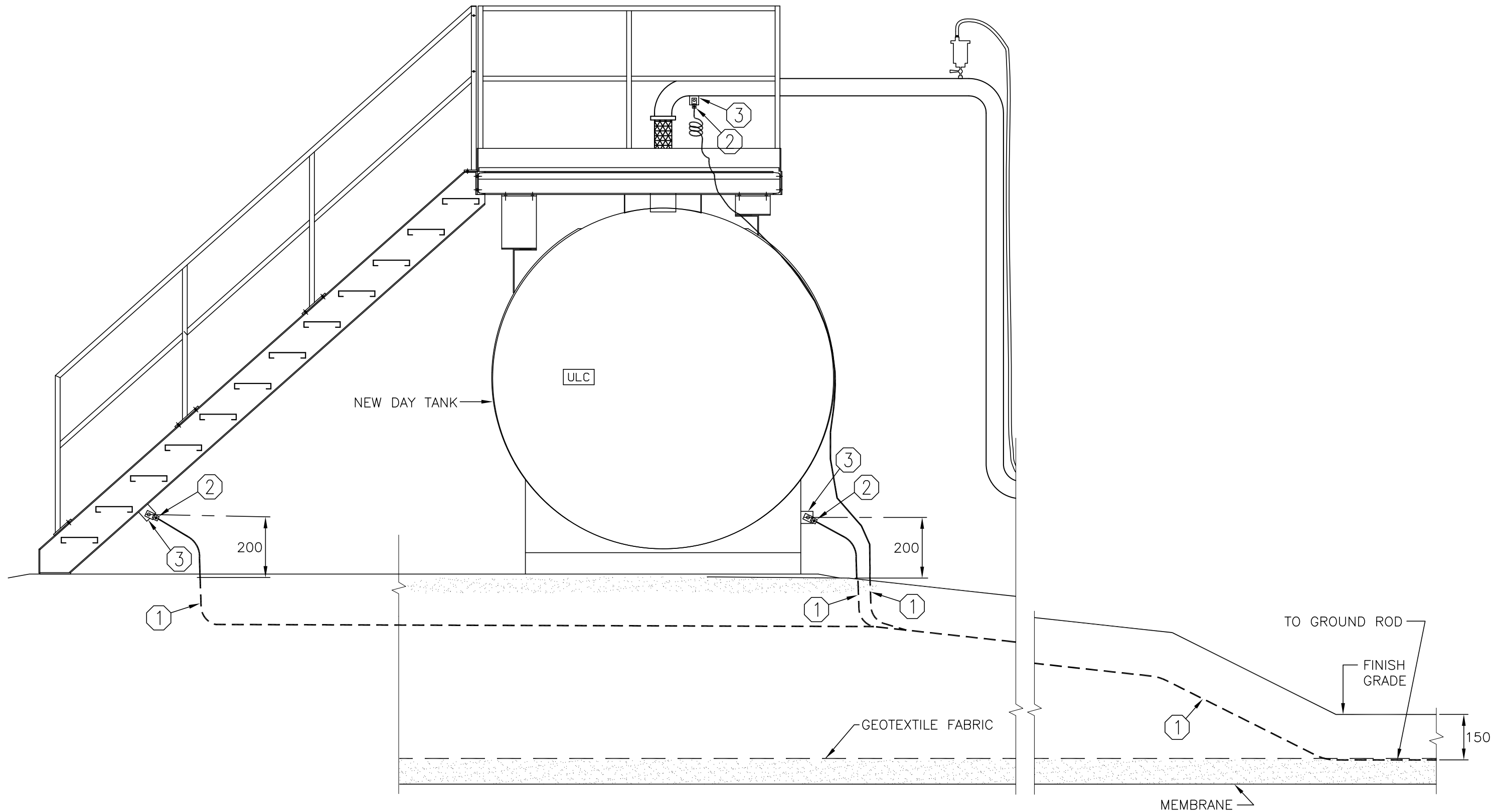
STATIC ELECTRICITY GROUNDING
CONNECTIONS ACROSS VALVES
SPOOL PIECES & FLEXIBLE CONNECTORS
N.T.S.



LIST OF MATERIAL	
ITEM	DESCRIPTION
①	#4 STRANDED BARE COPPER GROUND WIRE
②	BRONZE GROUND CONNECTOR
③	GROUND ROD 19# x 3.050 m, COPPER-CLAD STEEL

ELECTRICAL DETAIL 2

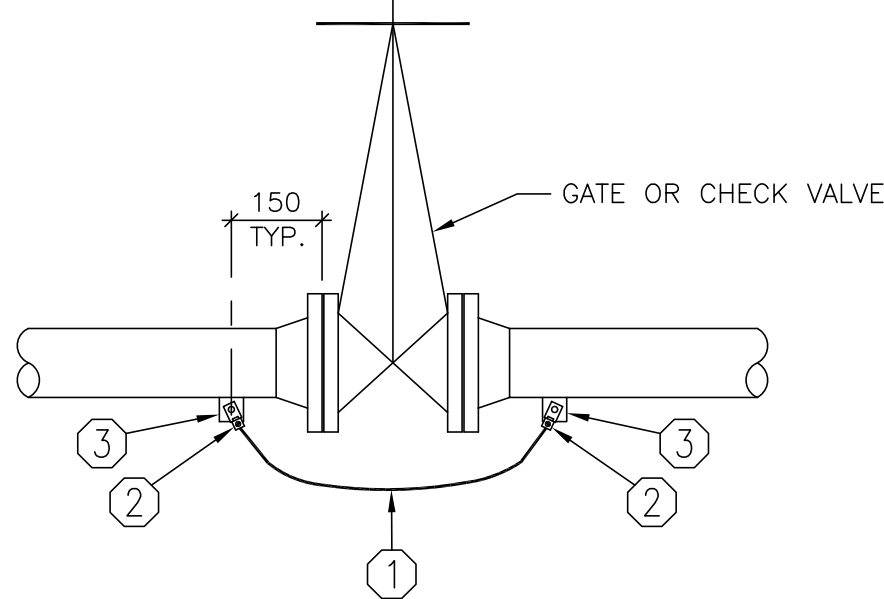
STATIC ELECTRICITY GROUNDING
CONNECTIONS AT GROUND ROD
N.T.S.



LIST OF MATERIAL	
ITEM	DESCRIPTION
①	#4 STRANDED BARE COPPER GROUND WIRE
②	COPPER MECHANICAL CONNECTOR ATTACHED WITH BRASS BOLT & NUTS
③	GROUND LUG PLATE 40 x 40 x 6 TH'K

ELECTRICAL DETAIL 3

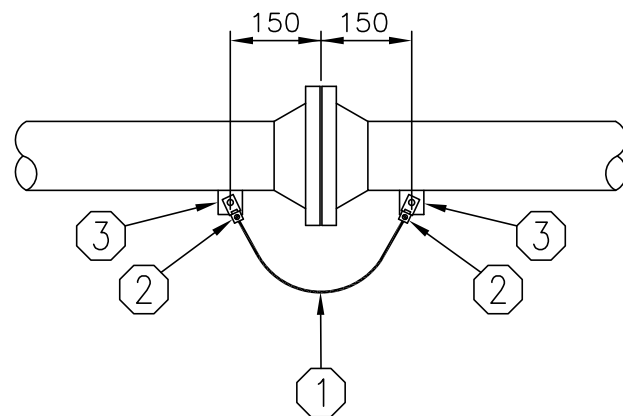
STATIC ELECTRICITY GROUNDING
CONNECTION AT NEW DAY TANK
N.T.S.



LIST OF MATERIAL	
ITEM	DESCRIPTION
①	#4 STRANDED BARE COPPER GROUND WIRE
②	COPPER MECHANICAL CONNECTOR ATTACHED WITH BRASS BOLT & NUTS
③	GROUND LUG PLATE 40 x 40 x 6 TH'K

ELECTRICAL DETAIL 4

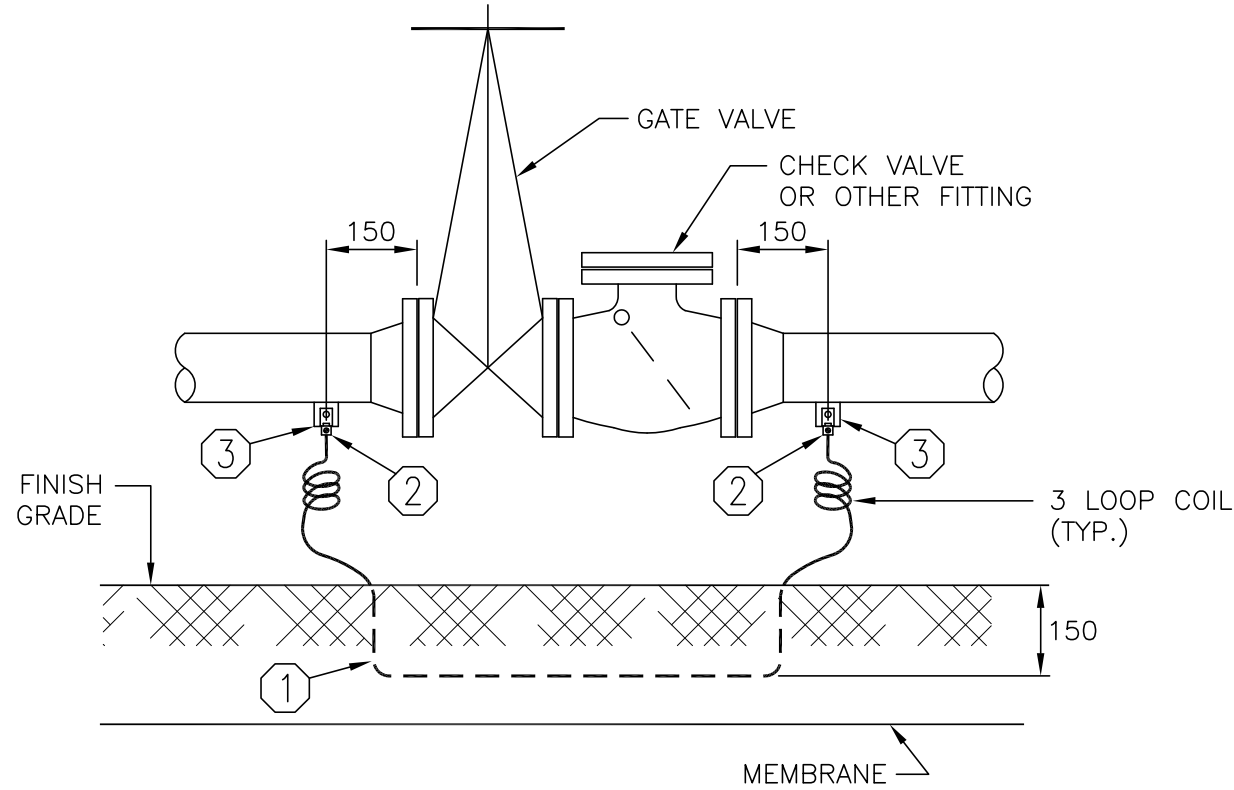
STATIC ELECTRICITY GROUNDING
CONNECTIONS ACROSS
GATE OR CHECK VALVES
N.T.S.



LIST OF MATERIAL	
ITEM	DESCRIPTION
①	#4 STRANDED BARE COPPER GROUND WIRE
②	COPPER MECHANICAL CONNECTOR ATTACHED WITH BRASS BOLT & NUTS
③	GROUND LUG PLATE 40 x 40 x 6 TH'K

ELECTRICAL DETAIL 5

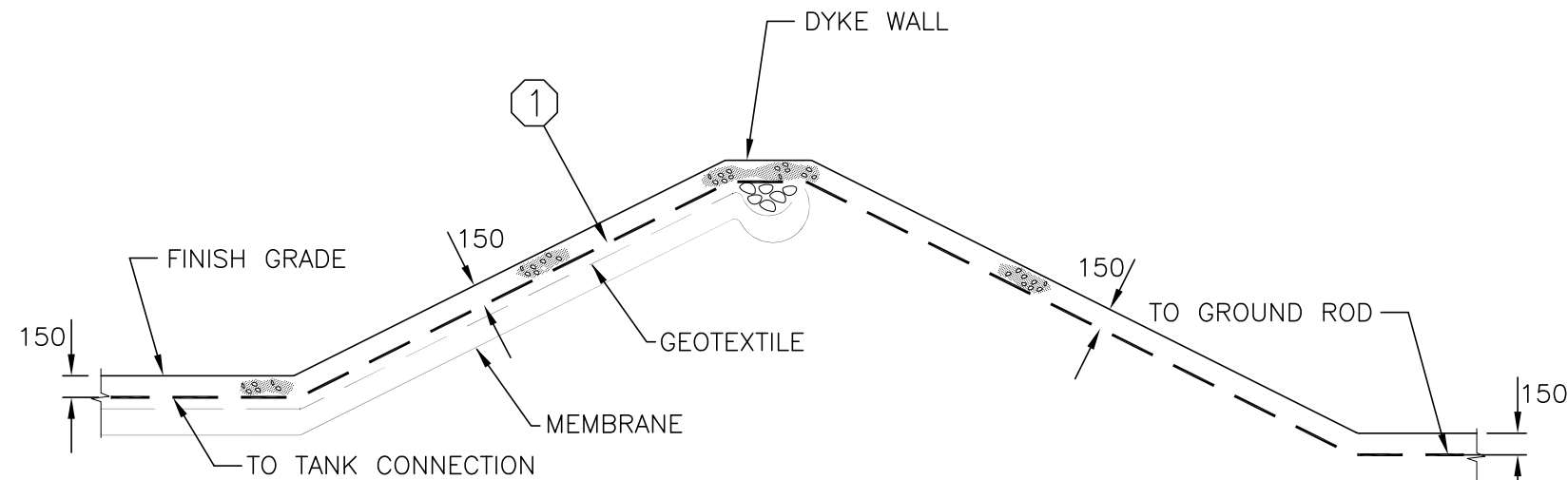
STATIC ELECTRICITY GROUNDING CONNECTIONS
AT FLANGED CONNECTIONS
N.T.S.



LIST OF MATERIAL	
ITEM	DESCRIPTION
①	#4 STRANDED BARE COPPER GROUND WIRE
②	COPPER MECHANICAL CONNECTOR ATTACHED WITH BRASS BOLT & NUTS
③	GROUND LUG PLATE 40 x 40 x 6 TH'K

ELECTRICAL DETAIL 6

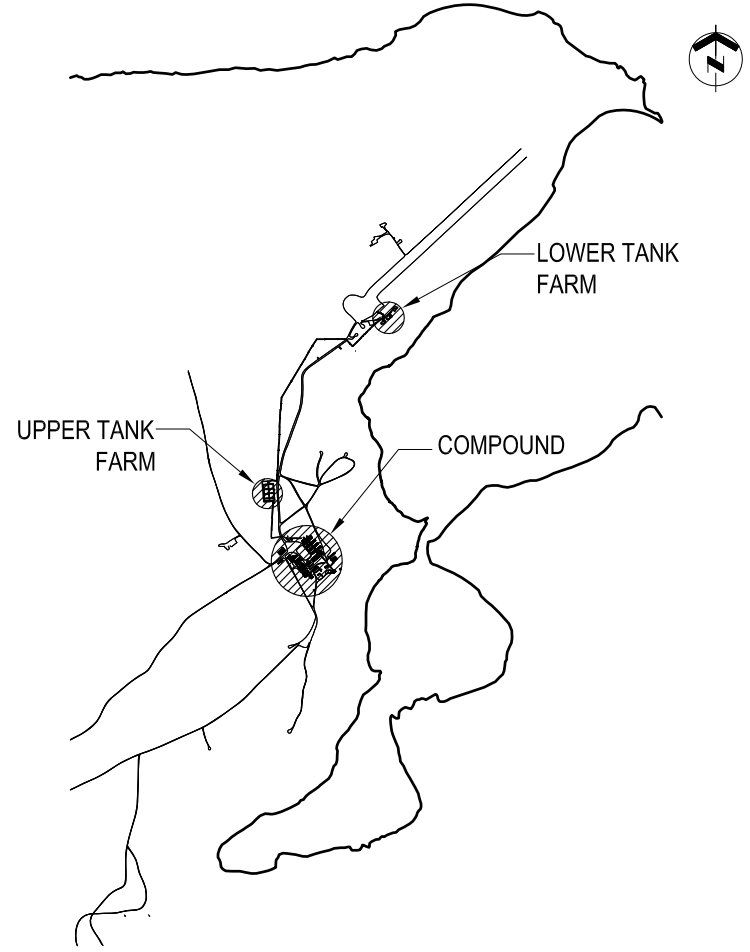
STATIC ELECTRICITY GROUNDING
CONNECTIONS ACROSS
GATE AND CHECK VALVES
N.T.S.



LIST OF MATERIAL	
ITEM	DESCRIPTION
①	#4 STRANDED BARE COPPER GROUND WIRE

ELECTRICAL DETAIL 7

STATIC ELECTRICITY GROUND
WIRE INSTALLATION OVER DYKE WALL
N.T.S.



KEY PLAN N.T.S.

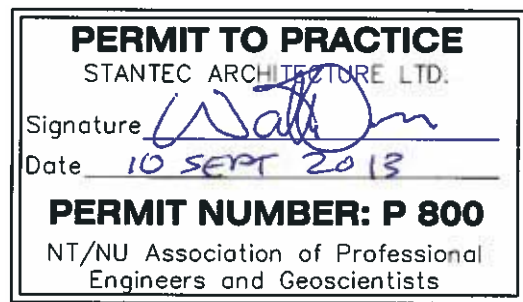
GENERAL NOTES

- REFER TO ALL OTHER CONTRACT DRAWINGS FOR QUANTITIES OF VALVES, FLEX CONNECTORS, FLANGES AND OTHER EQUIPMENT REQUIRING STATIC ELECTRICITY BONDING JUMPERS AS DETAILED ON THIS DRAWING.

LEGEND

DO NOT SCALE DRAWINGS

NO.	DATE	REVISION	APPR.
02	13/09/2013	RECORD DRAWING	WO
01	17/02/2012	ISSUED FOR CONSTRUCTION	WO



SCALE-ÉCHELLE	AS NOTED
PROJECT-PROJET	PF#: 68352

UPGRADE MAIN POL COMPOUND

CFS ALERT, NUNAVUT

TRADE-MÉTIER	DATE
ELECTRICAL	2013-09-13

ELECTRICAL DETAILS

PRODUCTION	CONCURRENCE-ASSENTIMENT	
DESIGNED ÉTUDE	USERS GROUP	
DRAWN DESSINE	P.J.P. O'LEARY PROJ. MGR.	
CHECKED VÉRIFIÉ	FIRE CHIEF CAPT.P.MUSCAT-DRAGO	
COORDINATION	APPROVED - APPROUVÉ S.CHINNATAMBY, ENG O	

DWG.NO.-DESSIN NO.	L - A28 -9312/3 - 501
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