

BACK RIVER PROJECT MLA Bulk Fuel Storage Area

Construction Summary Report December 2021

SBR7SBB-73-C-RPT-0001

Revision 0

Date: 2021-12-17

Owner: Owner: Sabina Gold & Silver Corp.

Name: MLA Bulk storage Area Construction Report

Doc No: SBR7SBB-73-C-RPT-0001

BACK RIVER PROJECT

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Appendix A - Final Construction Drawings

Appendix B - Consolidated construction pictures

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1. Introduction

The Back River Project (the Project) is a gold project owned by Sabina Gold & Silver Corp. (Sabina) within the West Kitikmeot region of south-western Nunavut. It is situated approximately 400 kilometres (km) southwest of Cambridge Bay, 95 km southeast of the southern end of Bathurst Inlet, and 520 km northeast of Yellowknife, Northwest Territories. The Project is located predominantly within the Queen Maud Gulf Watershed (Nunavut Water Regulations, Schedule 4).

The Project is comprised of two main areas with interconnecting winter ice roads: Goose Property and the Marine Laydown Area (MLA) situated along the western shore of southern Bathurst Inlet. The majority of annual resupply will be completed using the MLA, and an approximately 160 km long winter ice road will interconnect these sites.

1.1 PURPOSE OF THE REPORT

This report is intended to present the design basis and considerations, engineering design and drawings related to the Goose Plant site pond facilities that will be installed for the Back River Project.

In accordance with Sabina's Type A Water Licence (No. 2AM-BRP1831) Schedule D, Item 1, Sabina shall submit to the Nunavut Water Board (the Board) for review, within ninety (90) days of completion of each facility designed to contain, withhold, divert or retain Water and Wastes during the construction phase, a Construction Summary Report prepared by a qualified Engineer(s) in accordance with Schedule D, Item 1. As required by the Water Licence, this report contains the final design and construction drawings, a summary of construction activities including photographic recorded before, during and after construction. The as-built drawings, detailed explanation of field decision to reflect any deviations from the original construction drawings/plans and how such deviations may affect performance of engineered structures, a discussion of the mitigation measures implemented during construction and its effectiveness are also presented.

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2. Construction Summary

The containment facility design complies with the Water Management Plan for the Back River Project, which governs the design of such facilities. Additionally, the facility complies with the latest editions of the Codes and Standards relating to this project (Federal, Territorial, Municipal, NBCC, NFCC, CEC, CSA, NFPA, and API) as well as the directives of the authorities having jurisdiction over this project. Specific codes and standards as: Canadian Council of Ministers of Environment (CCME), R-125-95 NWT and Nunavut Mine Health and Safety Regulations (Mine Health and Safety Act) shall apply.

2.1 SITE LOCATION PLAN

Sabina Gold & Silver Corp. is developing the Back River Project in the Kitikmeot Region of Nunavut. The Marine Laydown Area (MLA) is located on Inuit Owned Land (IOL), approximately 160km north of the Goose Property Area.

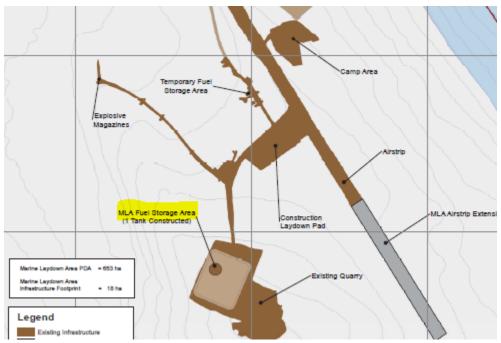


Figure 1. MLA Fuel Farm Site Overview

2.2 FUEL TANK SIZE

The tank capacity is 10 M liters. The tank is approximately 12.2 m tall and 33.5 m in diameter. Tank asbuilt drawings can be found in Appendix A.

2.3 TANK FOUNDATIONS DESIGN

The tank foundation consists of a pad with a minimum 1000 mm thickness, which is underlain by competent bedrock. A 1000 mm shoulder is provided around the perimeter of the tank which slopes away at 1V:2H. Tank foundation and berm drawings can be found in Appendix A.

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2.4 BERMS DESIGN

The containment area provided is designed to retain accidental spillage of the fuel product. the berms and base are made impervious using an HDPE liner. The berms and base are then constructed using site-available granular material.

The berms are approximately 4 m higher than the interior contained area and are 3 m wide at crest height. The berm slopes are 1V:2H. The berm drawings can be found in Appendix A.

2.5 SECONDARY CONTAINMENT CAPACITY

The required capacity of the fuel farm containment was calculated based on the National Fire Code of Canada (NFCC) and the Canadian Council of Ministers of Environment (CCME). The containment area/berm drawings can be found in Appendix A.

2.6 SECONDARY CONTAINMENT IMPERVIOUSNESS

As per NFCC requirements, the base and walls of the fuel farm is designed and constructed to withstand the full hydrostatic head and provide a permeability of not more than 10^{-6} cm/s for flammable liquids or combustible liquids contained in the storage tank. The HDPE membrane, as constructed, provides adequate imperviousness

2.7 SECONDARY CONTAINMENT DRAINAGE

The finished grade of the secondary containment is sloped away from the tanks to drain the runoff water. The bottom of the berms surface is built with slopes that will allow accidental spills to be concentrated at a low point. A drainage basin located at the low point allows the recovery by pumping accumulations of rainwater and accidental spills.

2.8 DRAWINGS AND PHOTOGRAPHS

Fuel farm tank and containment final design and construction drawings are available in the Appendices.

3. Field Decisions

3.1 EQUIPMENT AND CONTROLS

This section describes the criteria, methods, data, analysis and specifications used to design the primary pond facility.

3.2 PIPING

The pond facility is designed for a 24 hour total rainfall volume and 100 year return period. Catchment areas are calculated based on the final anticipated grading design and surrounding topography.

The emergency discharge pond is additionally designed to be fully lined with excess capacity available to redirect material (saline water, tailings, etc) as needed in emergency situations.

Piping between filling and distributing container and the fuel tank respect the point to point design. Please refer to the P&ID SBR6-73-P-ISO-0001_RB) for the final design. For interim loading and

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unloading of the system, a piping design was considered (SBR6-73-P-ISO-0001_RB). The final design of the piping distribution will be done by end of 2022 and not planned at this point of time.

4. Mitigation Measures

Quarrying activities to build the berm and the containment were not near fish bearing water. During the fuel storage tank and containment facilities construction, no sediment was released in water from construction areas and no water was used to manage dust emissions during construction activity.

5. Construction Monitoring and Inspection Test Plan

5.1 MEMBRANE

The manufacture and supply of the liner system for the fuel farm comply with ASTM standard. The manufacturer provided a certification stating that the material proposed has physical properties that meet the required values. All floor areas, berms and key trenches were inspected and deemed acceptable prior to placing geotextile protection. All wedge and extrusion welders were qualified daily prior to any liner placement.

- SBR7A&A-73-G-IR-0001-MLA- Tank Farm 73-TK-01 -HDPE Liner Install report
- SBR7A&A-73-G-IR-0002 MLA- Tank Farm 73-TK-01 -HDPE Liner Install report Fuel pad

5.2 TANK WELD

During the tank construction, a testing protocol was followed based on the construction team procedure. This procedure ensure that the tank meets API Standard 650. In it, the contractor registers welder's qualifications, confirm construction material quality and outline is testing procedure. The results from weld tests are also registered. Testing on weld took place during the whole construction process.

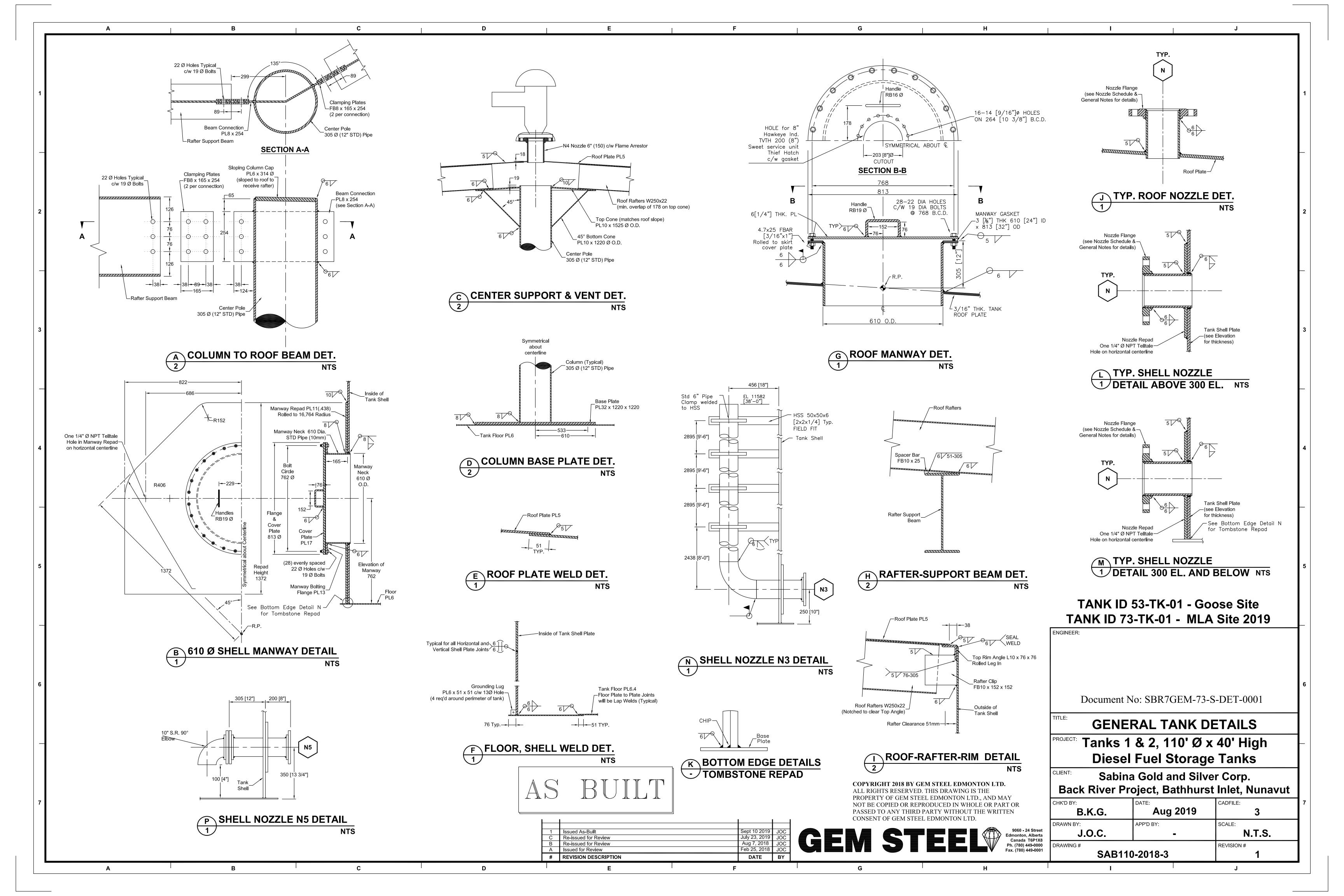
Weld maps have been provided in the following drawings included in the Appendix

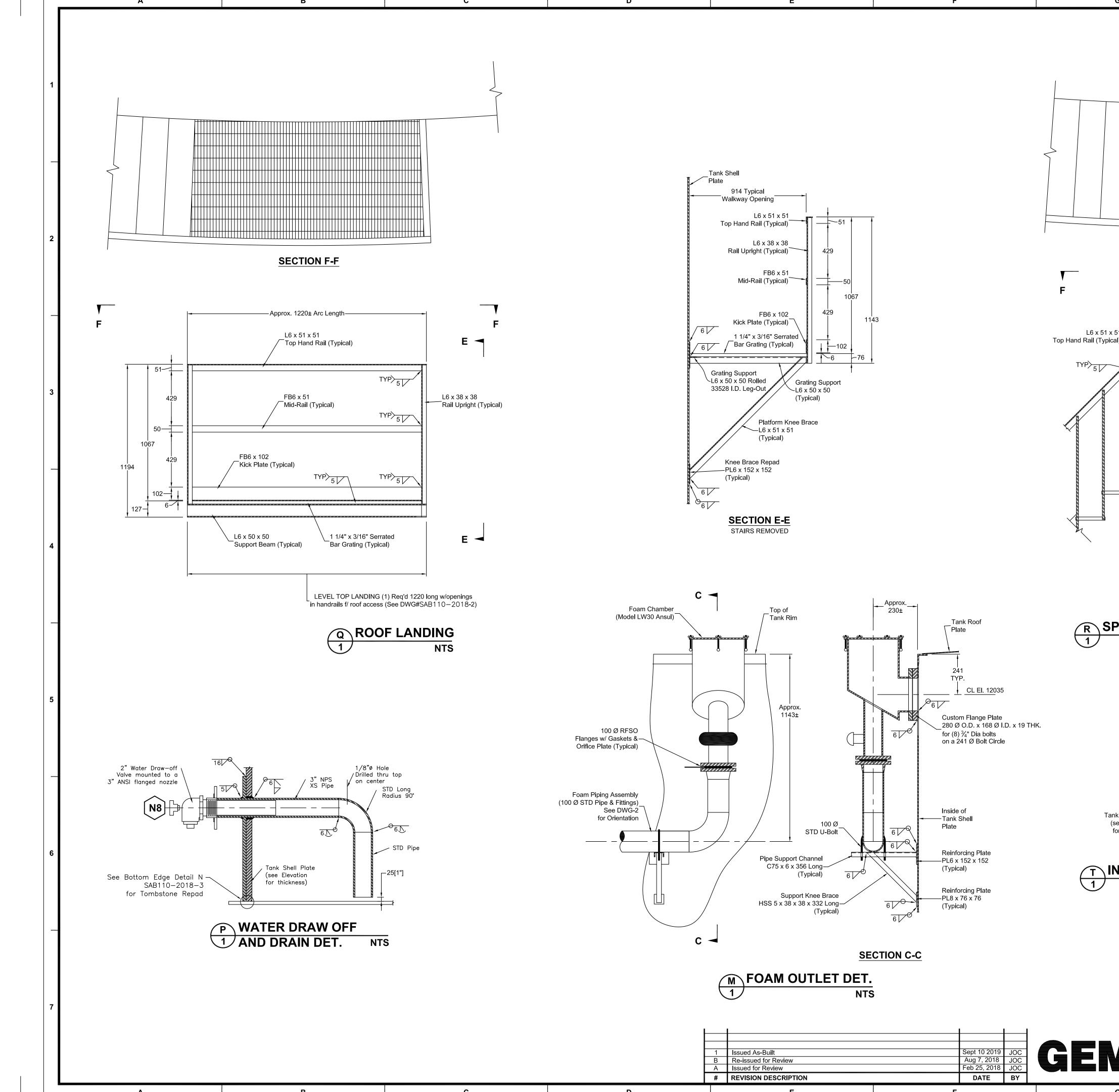
- SBR7GEM-73-S-PLN-0004-Shell weld map & Radiograph test map
- SBR7GEM-73-S-PLN-0001-Floor Plate Layout and weld map
- SBR7GEM-73-S-IR-0002 Sabina 2019 X-ray Reports.pdf

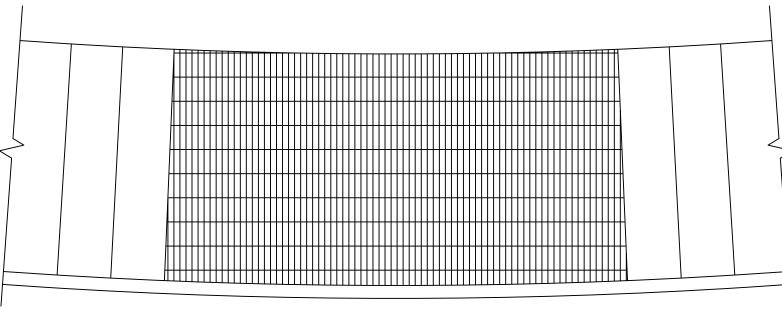
Appendix A - Engineering Drawings List

The following list of drawings covers the technical requirements for this package.

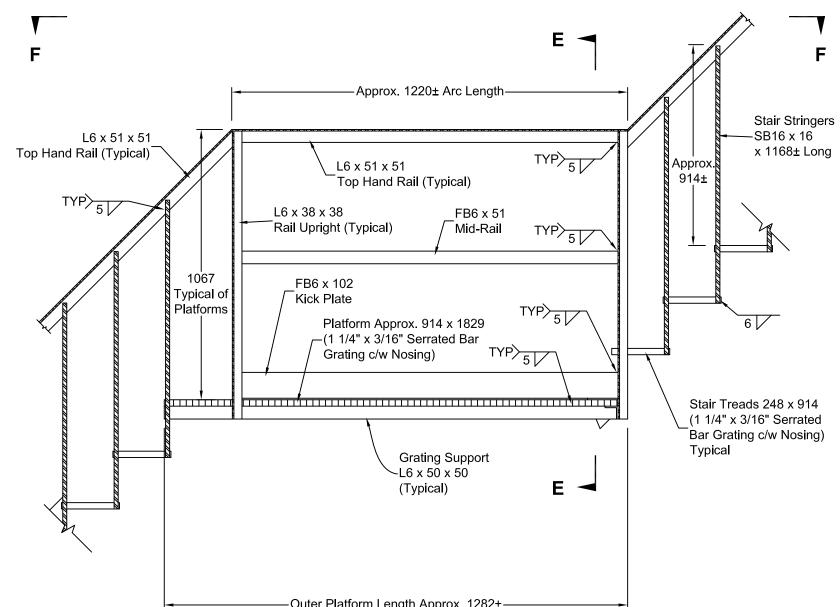
<u>Drawing Number and Title</u>	Rev
SBR7GEM-73-S-DET-0001-General Tank details.pdf	1
SBR7GEM-73-S-DET-0002-General Tank details_ pdf	1
SBR7GEM-73-S-ELV-0001-General Tank Elevation.pdf	1
SBR7GEM-73-S-PLN-0001-Floor Plate Layout and weld map_pdf	1
SBR7GEM-73-S-PLN-0002-Roof and Nozzle planpdf	1
SBR7GEM-73-S-PLN-0003-Roof plate Layout and Weld Mappdf	1
SBR7GEM-73-S-PLN-0004-Shell weld map & Radiograph test mappdf	1
SBR7SBB-7R-P-ISO-0001 -MLA Tank 73-TK-01 - Piping ISO Drawing	0
SBR7GEM-73-S-IR-0002 Sabina 2019 X-ray Reports.pdf	0
SBR7A&A-73-G-IR-0001-MLA- Tank Farm 73-TK-01 -HDPE Liner Install report	0
SBR7A&A-73-G-IR-0002 - MLA- Tank Farm 73-TK-01 -HDPE Liner Install report Fuel pad	0







SECTION F-F



SPIRAL STAIRS & INTERMEDIATE PLATFORM DET.

Tank Shell Plate
(see Elevation for thickness)

Compression Ring
W250x33 notched
for field placement
(see ELEVATION on
DWG# SAB110-2018-1 for
Location)

T INTERNAL COMPRESSION RING

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CONSENT OF GEM STEEL EDMONTON LTD.

AS BUILT

TANK ID 53-TK-01 - Goose Site TANK ID 73-TK-01 - MLA Site 2019

ENGINEER:

Document No: SBR7GEM-73-S-DET-0002

GENERAL TANK DETAILS

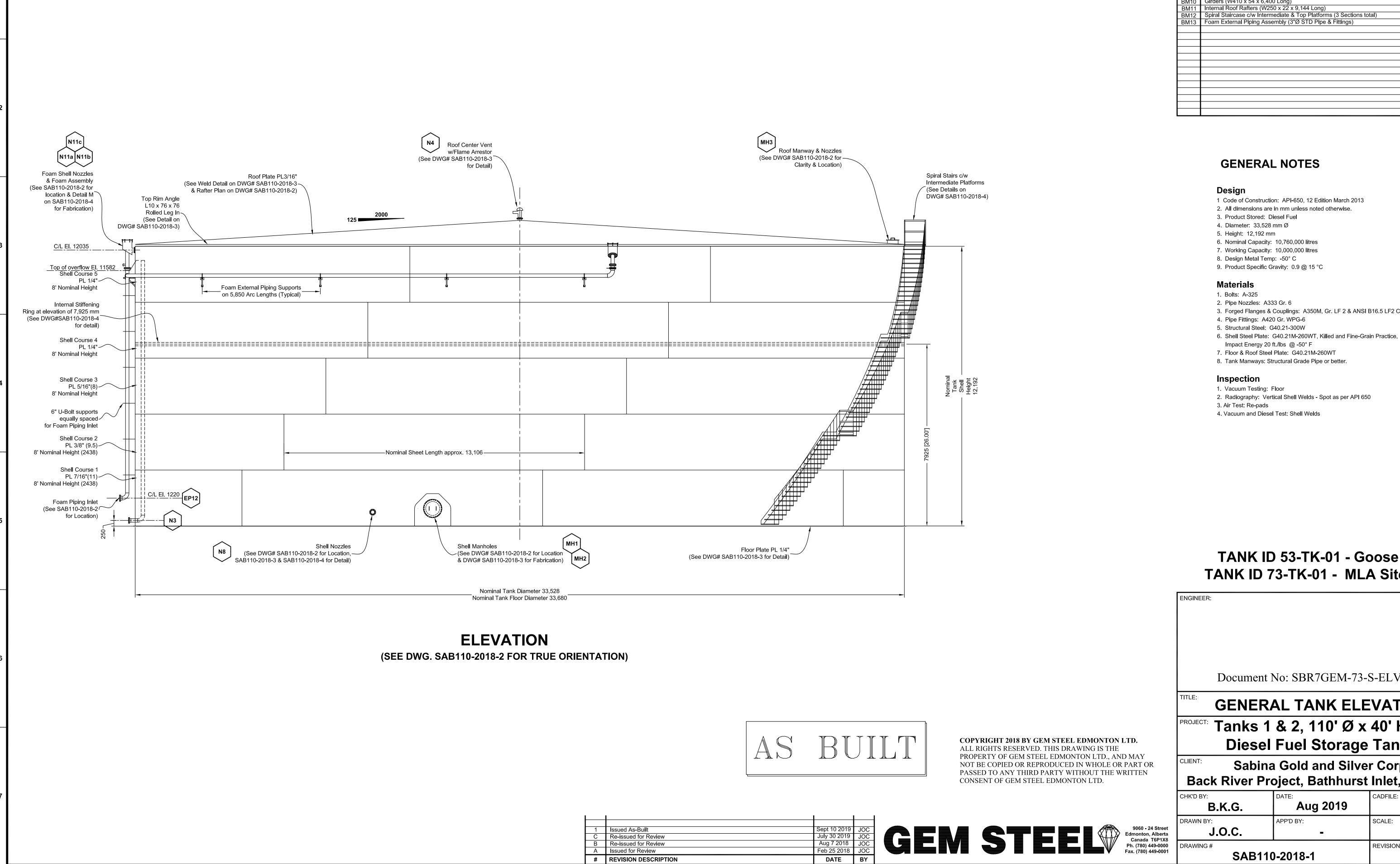
Tanks 1 & 2, 110' Ø x 40' High
Diesel Fuel Storage Tanks

Sabina Gold and Silver Corp.

Back River Project, Bathhurst Inlet, Nunavut

	•	•	
CHK'D BY:	DATE:	CADFILE:	7
B.K.G.	Aug 2019	4	
DRAWN BY:	APP'D BY:	SCALE:	1
J.O.C.	-	N.T.S.	
DRAWING #		REVISION#	1
SAB1 ^r	1		

9060 - 24 Street Edmonton, Alberta Canada T6P1X8 Ph. (780) 449-0000 Fax. (780) 449-0001



BILL OF MATERIALS (Quantity Per Tank) MARK DESCRIPTION Floor Plate (PL 1/4") Shell Course 1 (PL 7/16") Shell Course 2 (PL 3/8") Shell Course 3 (PL 5/16") Shell Course 4 (PL 1/4") Shell Course 5 (PL 1/4") Roof Plate (PL 3/16")
Outer Roof Support Column Assemblies (12"Ø STD Pipe) (Structural Grade) Outer Roof Support Column Assemblies (12*9 STD Pipe) (Structural Grade)
40'-8" lg c/w 3/4" Cap Plate
Center Pole Assembly (12*9 STD Pipe) (Structural Grade) Length to be field cut & capped Girders (W410 x 54 x 6,400 Long)
Internal Roof Rafters (W250 x 22 x 9,144 Long)
Spiral Staircase c/w Intermediate & Top Platforms (3 Sections total) Foam External Piping Assembly (3"Ø STD Pipe & Fittings)

GENERAL NOTES

- 1 Code of Construction: API-650, 12 Edition March 2013
- 2. All dimensions are in mm unless noted otherwise.
- 6. Nominal Capacity: 10,760,000 litres
- 7. Working Capacity: 10,000,000 litres
- 9. Product Specific Gravity: 0.9 @ 15 °C

- 3. Forged Flanges & Couplings: A350M, Gr. LF 2 & ANSI B16.5 LF2 Class D
- 5. Structural Steel: G40.21-300W
- Impact Energy 20 ft./lbs @ -50° F
- 7. Floor & Roof Steel Plate: G40.21M-260WT
- 8. Tank Manways: Structural Grade Pipe or better.
- 1. Vacuum Testing: Floor
- 2. Radiography: Vertical Shell Welds Spot as per API 650

TANK ID 53-TK-01 - Goose Site TANK ID 73-TK-01 - MLA Site 2019

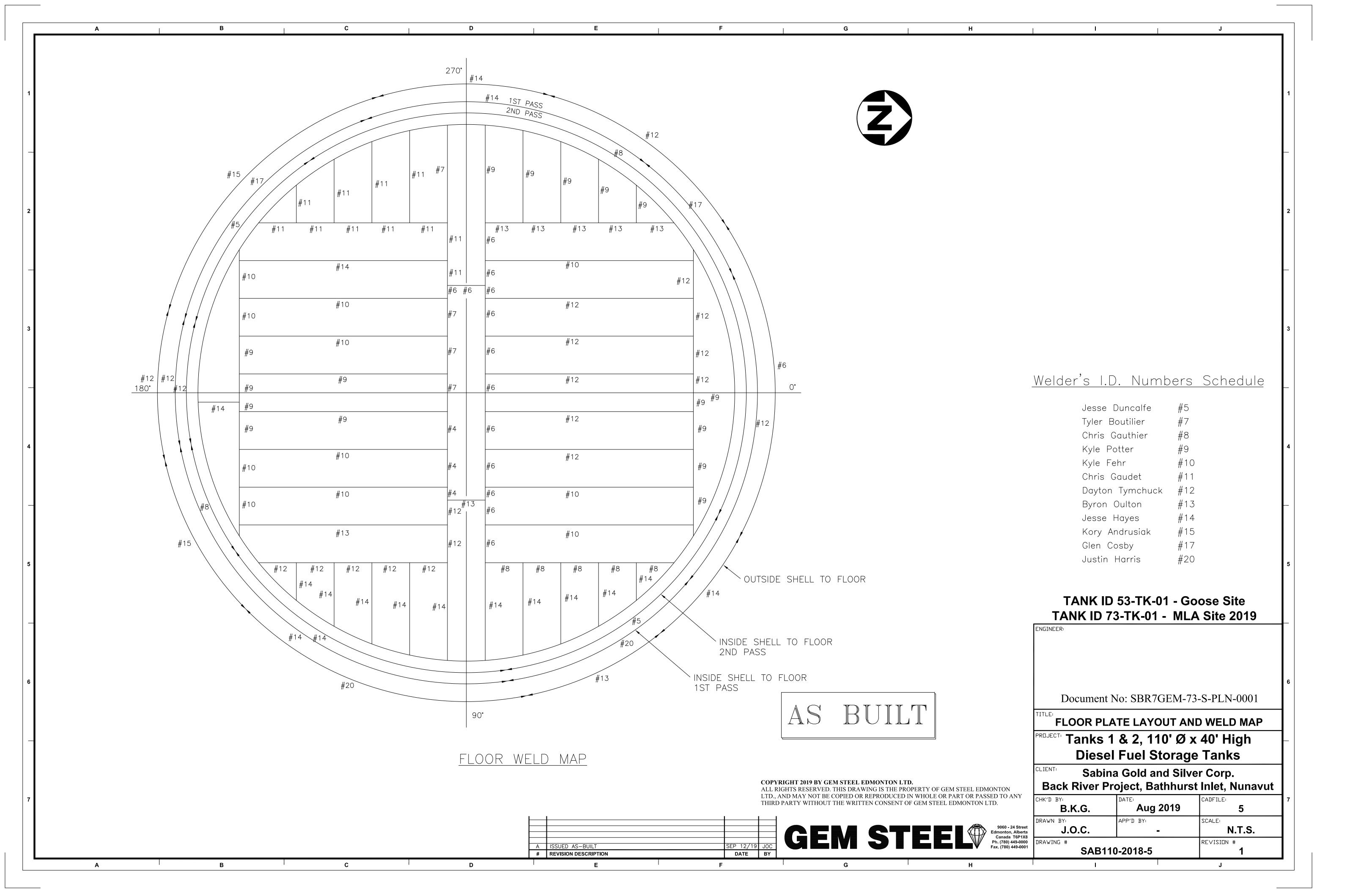
Document No: SBR7GEM-73-S-ELV-0001

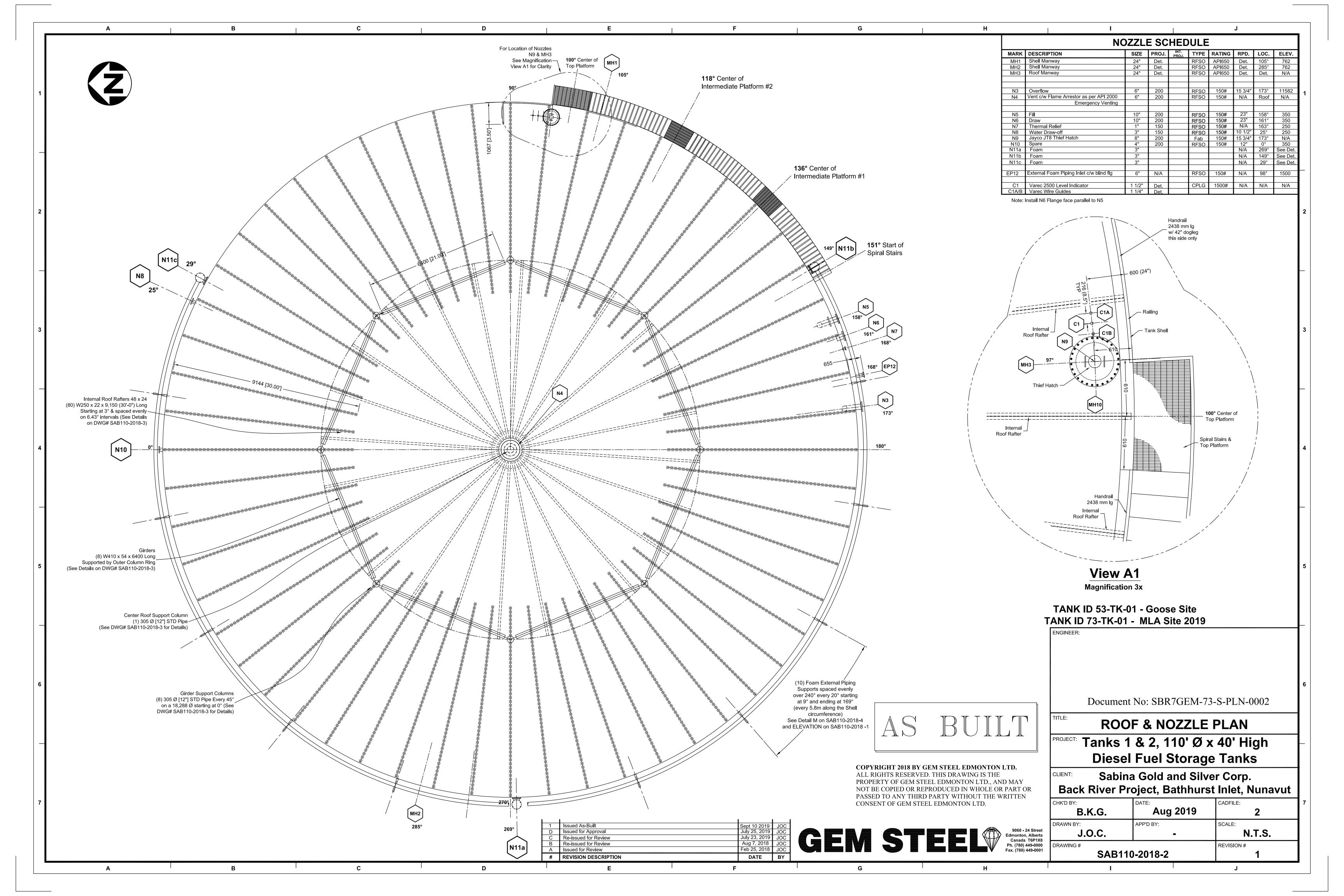
GENERAL TANK ELEVATION

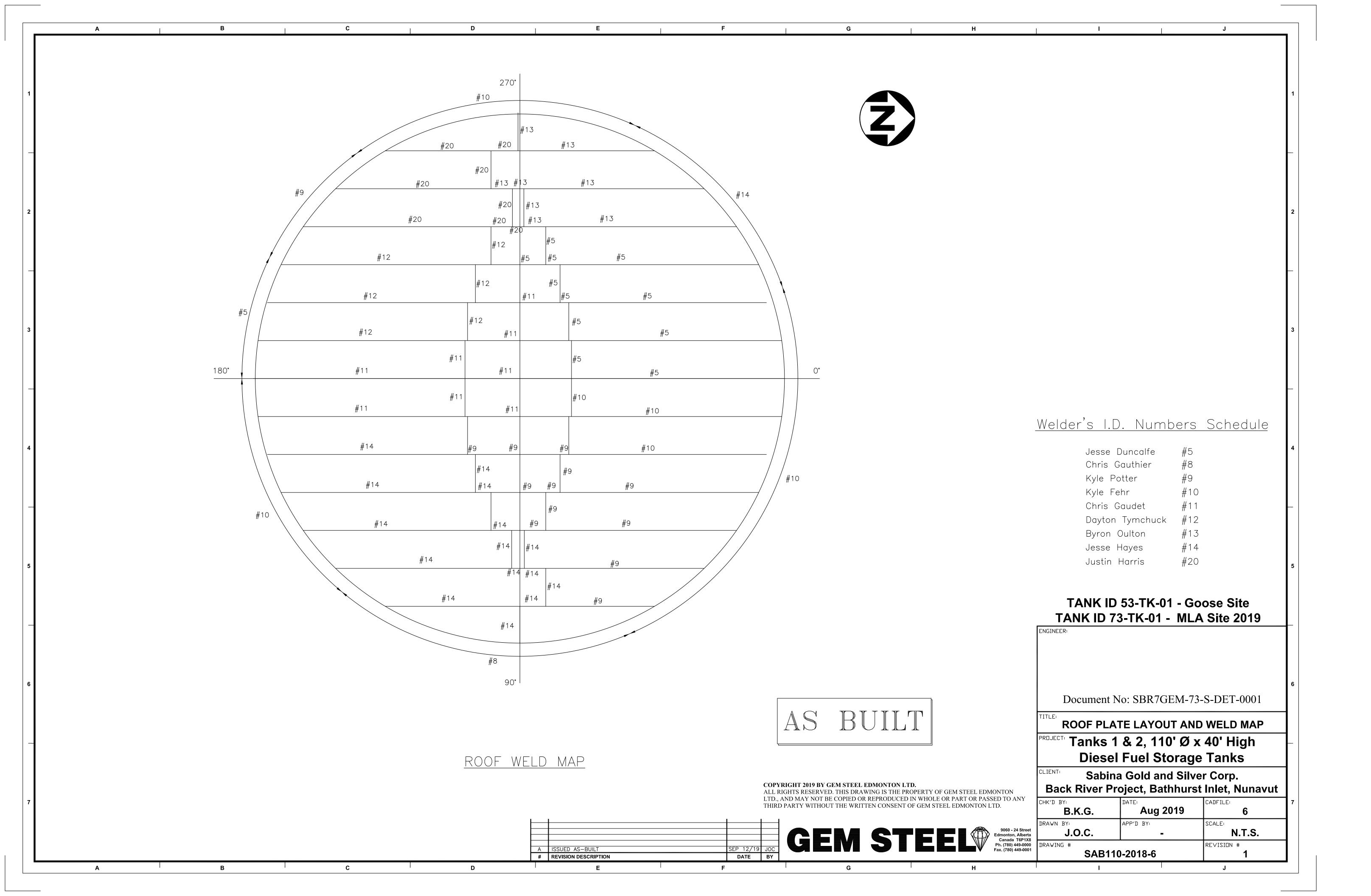
PROJECT: Tanks 1 & 2, 110' Ø x 40' High **Diesel Fuel Storage Tanks**

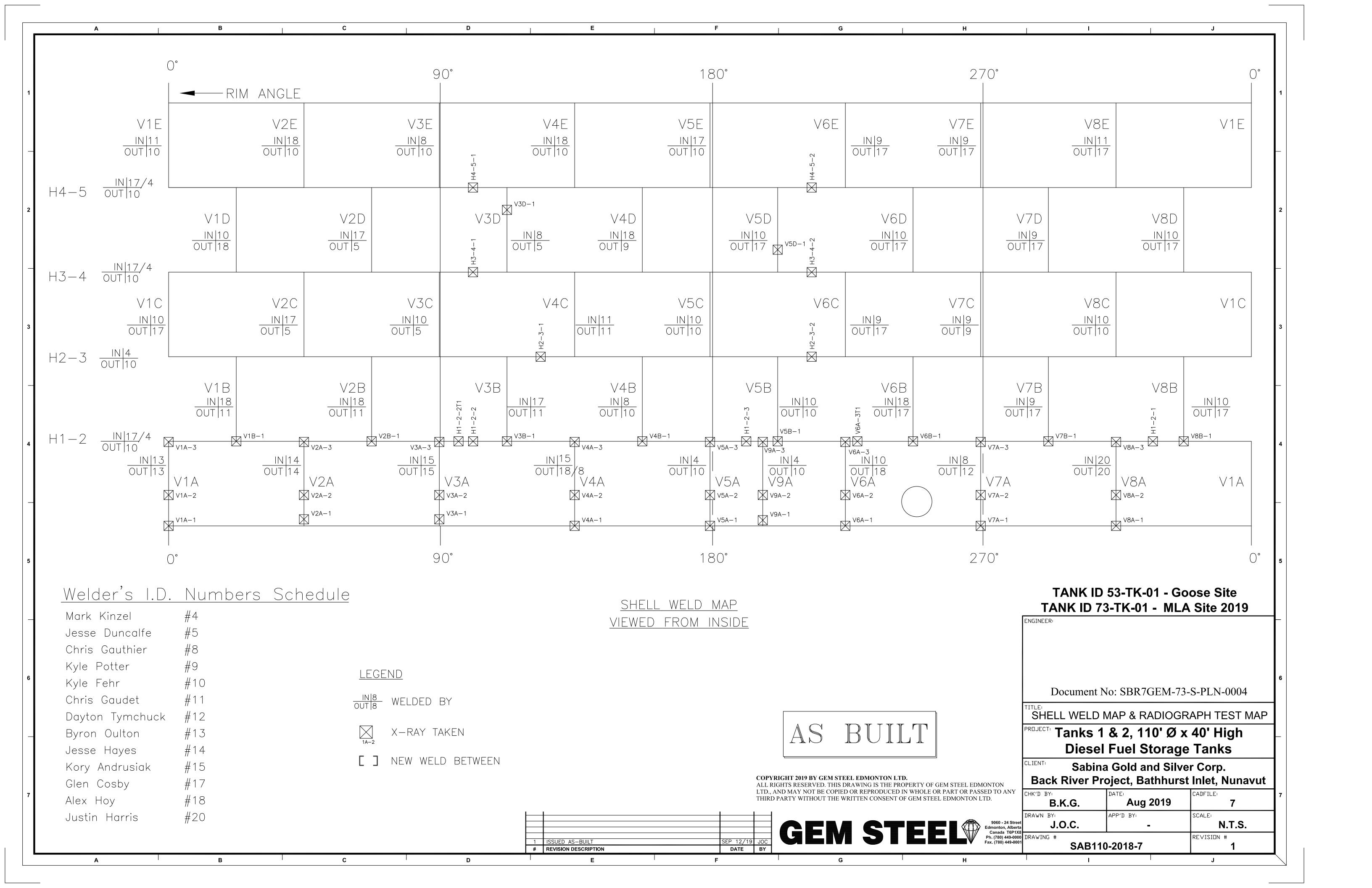
Sabina Gold and Silver Corp.

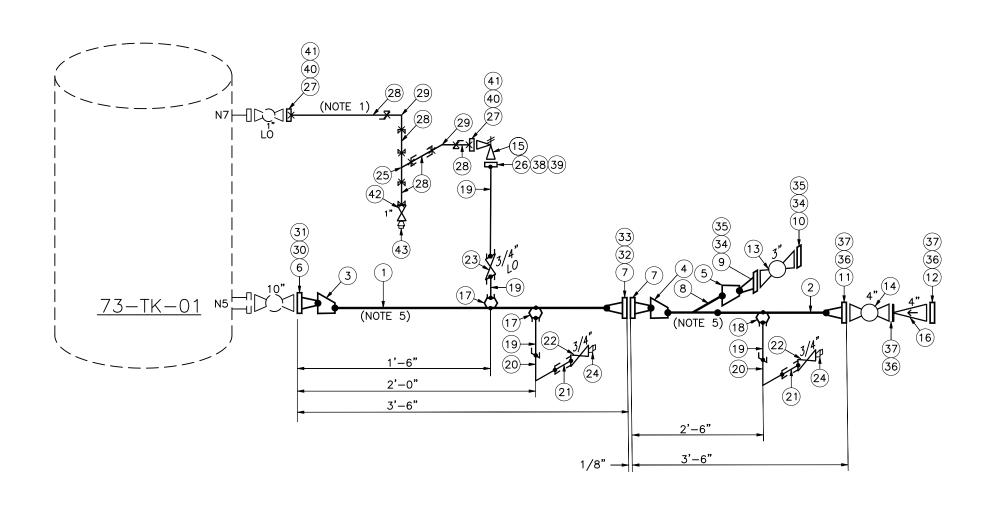
Back River Project, Bathhurst Inlet, Nunavut Aug 2019 APP'D BY: SCALE: N.T.S. REVISION#











NOTES:

CHUD EIEI D

- 1. PIPING TO BE FIELD RUN. INSTALLATION CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS, FIELD WELDS, PIPING ARRANGEMENT AND CHECK MATERIAL QUANTITIES PRIOR TO FABRICATION.
- 2. FIELD WELDS & TRIM ALLOWANCES SHALL BE LOCATED BY CONTRACTOR UNLESS NOTED OTHERWISE.
- 3. DEVIATIONS ARE NOT PERMITTED UNLESS APPROVED IN WRITING BY THE ENGINEER PRIOR TO CONSTRUCTION.
- 4. ALL ABOVE GRADE PIPING TO BE SUPPLIED WITH ONE COAT OF PPG AMERCOAT@68HS AND ONE COAT OF PPE PSX-700.

 FIFLD FABRICATED PIPING TO BE SUPPLIED WITH 6"LG BARE FNDS.

Document No: SBR7SBB-73-P-ISO-0001

FLANGE, A350 FS SW, RF, CL150, ASME B16.5 PIPE, SMLS, SCH 80, ASTM A333 GR 6 BBE, ASME B36.10 80'-0" ELBOW, 90 DEG, SW, ASTM A350 LF2, CL3000, ASME B16.11 GASKET, 316 SP WOUND, CL150, FLEX GRAPHITE, C.STL 30 10 CR, 316 IR, ASME B16.20 STUD BOLT w/2 HVY HEX NUT, 7/8x4 1/2 12 A320-GR.L7/A194-GR.4 (CL150) (4.50 LG) GASKET, 316 SP WOUND, CL150, FLEX GRAPHITE, C.STL 8 CR, 316 IR, ASME B16.20 STUD BOLT w/2 HVY HEX NUT, 3/4x4 1/4 8 A320-GR.L7/A194-GR.4 (CL150) (4.25 LG) GASKET, 316 SP WOUND, CL150, FLEX GRAPHITE, C.STL 3 CR, 316 IR, ASME B16.20 STUD BOLT w/2 HVY HEX NUT. 5/8x3 1/2 A320-GR.L7/A194-GR.4 (CL150) (3.50 LG) GASKET, 316 SP WOUND, CL150, FLEX GRAPHITE, C.STL CR, 316 IR, ASME B16.20 STUD BOLT w/2 HVY HEX NUT, 5/8x3 1/2 8 A320-GR.L7/A194-GR.4 (CL150) (3.50 LG) GASKET, 316 SP WOUND, CL150, FLEX GRAPHITE, C.STL 3/4 CR, 316 IR, ASME B16.20 STUD BOLT w/2 HVY HEX NUT, 1/2x2 1/2 A320-GR.L7/A194-GR.4 (CL150) (2.50 LG) GASKET, 316 SP WOUND, CL150, FLEX GRAPHITE, C.STL 2 1 CR, 316 IR, ASME B16.20 STUD BOLT w/2 HVY HEX NUT, 1/2x2 1/2 A320-GR.L7/A194-GR.4 (CL150) (2.50 LG) VALVE, GATE, V208-SW/SW - CL800 SWxSW, HANDWHEEL OP API 602 PLUG, ASTM A350 LF2 FS TE, ROUND HEAD, ASME B16.11 REV. Y M D BY CHK. ENG. APP. DESCRIPTION TI INF 1

MATERIAL LIST

SIZE

10x8

8x4

4x3

10

3

3

3/4x1

8x3/4

4x3/4

3/4x3LG

3/4

3/4x6LG

3/4

3/4

3/4

QUANT.

PER DWG

PER DWG

2

2

5

2

2

DESCRIPTION

REDUCER, ECC, SCH 40, ASTM A420 WPLG BW, ASME

REDUCER, ECC, SCH 40, ASTM A420 WPLG BW, ASME

REDUCER, ECC, SCH 40, ASTM A420 WPLG BW, ASME

FLANGE, ASTM A350 FSLF2 FS, WN, RF, CL150, SCH 40

FLANGE, ASTM A350 FSLF2 FS, WN, RF, CL150, SCH 40

TEE, STR, BW, ASTM A420 WPLG, SCH 40, ASME B16.9 (NOTE 9) FLANGE, ASTM A350 FSLF2 FS, WN, RF, CL150, SCH 40

FLANGE, ASTM A350 FSLF2 FS, WN, RF, CL150, SCH 40

VALVE, BALL, V314 - CL150 RF, HANDWHEEL OR LEVER OP,

VALVE, BALL, V314 - CL150 RF, HANDWHEEL OR LEVER OP,

THERMAL RELIEF VALVE, CL150 RF, CONSOLIDATED 19000

SOCKOLET, ASTM A350 LF2, FS SW CL3000, B16.11 SW

NIPPLE, ASTM A333 GR 6 PBE, SCH-80, 3" LG, ASME B36.10

ELBOW, 90 DEG, SW, ASTM A350 LF2, CL3000, ASME B16.11

NIPPLE, ASTM A333 GR 6 PBE, SCH-80, 6" LG, ASME B36.10

PLUG, ASTM A350 LF2 FS TE, ROUND HEAD, ASME B16.11

TEE, STR, SW, ASTM A350 LF2 FS, CLASS 3000, ASME B16.11

- CL800 SWxSW,

SWING CHECK VALVE, V710, CL150 RF, API 600 SOCKOLET, ASTM A350 LF2, FS SW CL3000, B16.11 SW

VALVE, GATE, V208-SW/TH - CL800 SWxTHRD,

FLANGE, A350 FS SW, RF, CL150, ASME B16.5

BLIND FLANGE, ASTM A350 FSLF2 FS, RF, CL150,

12 BLIND FLANGE, ASTM A350 FSLF2 FS, RF, CL150,

LOW TEMPERATURE DIESEL SERVICE

HANDWHEEL OP, API 602

HANDWHEEL OP. API 602

VALVE, GATE, V208-SW/SW

23

PIPE, SMLS, SCH 40, ASTM A333 GR 6 BBE, ASME B36.10

PIPE, SMLS, SCH 80, ASTM A333 GR 6 PBE, ASME B36.10

ITEM

B16.9 BW

B16.9 BW

BORE, ASME B16.5

BORE, ASME B16.5

BORE, ASME B16.5

BORE, ASME B16.5

API 607, 6D, 598

API 607, 6D, 598

ASME B16.5

ASME B16.5

WELD WELD FIELD) FABRICATED PIPING TO) BE SUPPLIED WITH 6"LG	BARE ENDS.	Documen	t No. 3BK/3BB-73-1-130-	-0001	TLIN	
DESIGN AND INSPECTION DATA:	SERVICE: SPEC: REV: DIESEL SC5 LATES		OPERATING DATA: G@-49°F 20PSIG@70°F/20PSIG@-20		PNEUM TEST: TIME(MIN): ADDITIONAL REQUIR N/A 30MIN N/A	EMENTS : EQUIP. NO.	PLANT AREA LIN	NE NO.
	FABRICATE PER ANSI CODE: B31.3	: APPROVED BY A.B.B. GASKIN/A 1/8	ET SPACING DEVIATIONS TO SPEC:	X-RAY WELDS SHOP 10 % FIELD 10	%	DRAWN BY	CHECKED BY	SAP NO.
PROTECTIVE WARMING REQUIREMENTS: N/A	ELECTRICAL: STEAM N/A N/A	RATING SUP. GLYCOL: N/A N/A	TRACER (QTY, SIZE) TRACER MATER N/A N/A	rial: CLADDING THK AND MAT: INSUIN N/A	L. CLASS: INSUL. THK AND MAT: N/A	APPROVED	DRAWING NO.	REV. B

ACUREN A Higher Level of Reliabil	ility			DAGE 1 OF 1		
CLIENT AND PROJECT INFORMATION:			:	PAGEOF		
CLIENT: Gem Steel ADDRESS:		Sabina	DATE: Aug 22119 ACUREN JOB#: 231-009684	Ā		
ATTENTION: Steve Davies		MLA N.Q.	REPORT#: 80-22-08-19-			
TEST DETAILS:		73-TK-01	Contract/PO: 00631 WO	· NA		
ACCEPTANCE STANDARD: API 650 PROCEDURE/TECHNIQUE: CAN-RT- SOURCE: Ir 192 Co 60 Se 75 35 RESULTS: (ENTER UNITS OF MEASUREMENT IN TABLE HEA	5 Ci □ X-ray kV Fo	REVISION: 201 REVISION: 8 DCAL SPOT: 2.9 8 M CREENS: 12 Le	FILM BRAND: A Padd (Pb) Other: THK (F) .005	gta (B) .010 "		
	VIEW O.D. NOM. THK. REIN.	SOD OFD FILM TECH # OF	ONE FILM USED PER CASSET	ITE, UNLESS NOTED IN REMARKS		
	10 10 10	IN IN TYPE # EXP	REMARKS	ACC. REJ.		
V6A-A V6A-3 V7A-1 V7A-2	-6 N/A 7/16" 1/8"		P-2,3-1 Pl Transverse crack in horizon P-1 p.1	1 X		
THIS DOCUMENT AND ALL SERVICES AND/OR PRODUCTS PROVIDED IN CONNECTION WITH THIS DOCUMENT AND ALL FUTURE SALES ARE SUBJECT TO AND SHALL BE GOVERNED BY THE "ACUREN STANDARD SERVICE TERMS" IN EFFECT WHEN THE SERVICES AND/OR PRODUCTS ARE ORDERED. THOSE TERMS ARE AVAILABLE AT WWW ACUREN. COMMENT (EXCEPT WHERE EXPRESSLY INCORPORATED BY REFERENCE INTO THIS DOCUMENT AND SHALL SUPERSEDE ANY CONFLICTING TERMS IN ANY OTHER DOCUMENT (EXCEPT WHERE EXPRESSLY AGREED OTHERWISE IN THAT OTHER DOCUMENT). The Demandant dustody of all redographs and the final disposition of all items inspected. THE TECHNICIAN (PRINT) THE TECHNICIAN (SIGNATURE) THE TECHNICIAN (SIGNATURE) THE TECHNICIAN (PRINT) THE TECHNICIAN (SIGNATURE) THE TECHNICIAN (

ACUREN A Higher Level of Reliability	AGE (OF	WEEK
CLIENT AND PROJECT INFORMATION:		
CLIENT: Gem Steel PROJECT: Sabing DATE: Aug 23/19		
100(6)[1		
ADDRESS: ACUREN JOB #: 31-0096842 WORK LOCATION: MLA - N.U REPORT #: 33-08-19-1		
ATTENTION.	.1.0	
TEST DETAILS: TEST DETAILS: TEST DETAILS: TEST DETAILS:	<u> 4 A</u>	
ACCEPTANCE STANDARD: APT 650 REVISION: 3013 MATERIAL: C15		
MATERIAL: C		
PROCEDURE/TECHNIQUE: CAN- RT- 14 POOL SOURCE: IT 192 Co 60 Se 75 35 Ci X-ray kV FOCAL SPOT: 3.98 mm SCREENS: Lead (Pb) Other: THK (F) .005 P		
RESULTS: (ENTER UNITS OF MEASUREMENT IN TABLE HEADER)	(B) . 0 10 ° °	
VIEW O.D. NOW THE DELY COSE 11E, C	NLESS NOTED IN REI	MARKS
# IDENTIFICATION WS* VIEW O.D. NOM.THK. REIN. SOD OFD FILM TECH # OF TYPE # EXP REMARKS	ACC	
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V1A-3		,
V2A-1		
V2A-2		,
v2A-3		-
V3A-1		,
V3A-2		/
V3A-3		/
V4 A - 1		
V4 A - 2		/
V4A-3	V	
V8A-1 P.2 e 0,5.1		
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SIGNATURES:		
CLIENT REPRESENTATIVE (PRINT HE (SIGNATURE) DTR #: 448979	,	
Brack DSMONS And Ome TI TI 3161		
Marie Lederer		
(SIGNATURE) CGSB SNT CGSB		
RÉVIÈWER (IF APPLICABLE) (PRINT) (SIGNATURE)		

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CLIENT AND PROJECT INFORMATION:		
CLIENT: Gen Steel PROJECT: Sabina DATE: Aug 33/19		
ADDRESS:		
WORK LOCATION: MLA - N.U REPORT#: 65-23-68-19-2		
ATTENTION: EL	Λ	
TEST DETAILS: TEST DETAILS: CONTRACT/PO: 00631 WO: N	<u>r</u>	
ACCEPTANCE STANDARD: API 650 REVISION: 2013 MATERIAL: 015		
PROCEDURE/TECHNIQUE: CAN-OT- VI- DAGA		
SOURCE: VI 192 CO 60 C Se 75 CO CV SOURCE CO	·	
SOURCE: IT 192 Co 60 Se 75 35 CI X-ray KV FOCAL SPOT: 2.98 MM SCREENS: Lead (Pb) Other: THK (F) .005" (I	3) .010 "	
VIEW O.D. NOM THE PERM COO	S NOTED IN REI	MARKS
# IDENTIFICATION WS* VIEW O.D. NOM. THK. REIN. SOD OFD FILM TECH # OF TYPE # EXP REMARKS	ACC (Ý)). REJ.
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V76-(+-
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H4-5-1		
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SIGNATURES:		
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CLIENT REPRESENTATIVE (PRINT) DTR #: 448979		
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Marie Lederer (SIGNATURE) CGSB SNT CGSB 2ºº TECHNICIAN (SIGNATURE) CGSB SNT CGSB SNT CGSB		
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TEST DETAILS: ACCEPTANCE STANDARD: API 65 0 REVISION: 3013 MATERIAL: STANDARD STAN		UNLIN A	-		eliability											PAGE 1	OF _	
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SOURCE: MY 192 C 0 60 S 75 35 C X-78Y W FOCAL SPOT; 2.98 M SCREENS: Lead (Pb) Other: THK (F) DSS* (B) LOIS* RESULTS: (ENTER UNITS OF MEASUREMENT IN TABLE HEADER) # IDENTIFICATION WS VIEW OD NOM THK REIN SOD OFD FILM TECH # 6 EXP REMARKS # IDENTIFICATION WS VIEW OD NOM THK REIN SOD OFD FILM TECH # 6 EXP REMARKS # 12 ' 17 ' 18 EXP REMARKS # 12 ' 17 ' 18 EXP REMARKS # 14 2 ' 1 2			HYI	65	00	1 1					REVISIO	N:	20	13	MATERIAL: C	5		***************************************
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CLIENT AND PROJECT INFORMATION:					
CLIENT: Gen Steel PROJECT: Sabina DATE: Aug 24/19 ADDRESS: ACUREN JOB #: 231-0096842	V lamon State py plania menos tine g				
ATTENTION: Steve Janies Work Location: MLA - NU REPORT #: B0 - 24 - 08 - 19 - 2 CONTRACT/PO: 00631 WO: NA					
TEST DETAILS:	*				
ACCEPTANCE STANDARD: API 650 PROCEDURE/TECHNIQUE: CAN-LT-14 POOL REVISION: 8 SOURCE: I'r 192 Co 60 Se 75 35 Ci X-ray kV FOCAL SPOT: 2.98 M SCREENS: Lead (Pb) Other: THK (F) .005; (B) .	0(0 "				
RESULTS: (ENTER UNITS OF MEASUREMENT IN TABLE HEADER) ONE FILM USED PER CASSETTE, UNLESS NOT	ΓED IN REM	IARKS			
# IDENTIFICATION WS* VIEW O.D. NOM. THK. REIN. SOD OFD FILM TECH # OF EXP REMARKS	ACC. (✓)	REJ.			
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SIGNATURES:					
CLIENT REPRESENTATIVE (PRINT) ADD/E LEVEL REG.#					
1ST TECHNICIAN Brad OSMOND BullOn II II 3161					
(SIGNATURE) CGSB SNT CGSB 10288 2110 TECHNICIAN (PRINT) (SIGNATURE) CGSB SNT CGSB					
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Acuren Group Inc. 7450 - 18th Street Edmonton, AB, Canada T6P 1N8 www.acuren.com Document No: SBR7SBB-73-S-IR-0002

CLENT Gen Steel PROJECT Sala (new Location) ACUREN JOS # 231 60 96847	ACUREIN A Higher Level of Reliability	PAGEOF
ADDRESS: WORK LOCATION: MLA N. U ADDRESS ADDR		
ADDRESS: WORK LOCATION: Mik-N-N-U REPORT # 20-35-08-19-1 ATTENTION STENDER JOD (CS	CLIENT: Gen Steel PROJECT: Sahina DATE Aug 25/18	
ATTENTION: Stock Jacobies Work Location: M. R. S. U. REPORT # DO. 25 - 08-13-1 TEST DETAILS: CONTRACTIFO: 06631 WO: N. A. TEST DETAILS: CONTRACTIFO: 06631 WO: N. A. REVISION: 2013 MACHENIC S. PELANDON: A. P.T. S. D. P. PELANDON: A. D. P.T. S. D. P. PELANDON: A. P.T. S. D. P.	ADDRESS: ACUREN JOB # 23 5 5 9 6 9 6	17
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Acuren Group Inc. 7450 - 18th Street Edmonton, AB, Canada T6P 1N8 www.acuren.com Document No: SBR7SBB-73-S-IR-0002

A Higher Level of Reliability	Page of
CLIENT AND PROJECT INFORMATION:	
CLIENT: Gen Steel PROJECT: Sabina DATE: AUG. 76/10	Provide the Annual Control of the Annual Con
ADDRESS: PROJECT: Sabina DATE: Aug 26/19 ACUREN JOB #: 331 60 96842	
WORK LOCATION: MLA N.W REPORT#: 45-26-10-10-1	
ATTENTION:	
TEST DETAILS:	NA
ACCEPTANCE STANDARD: APT 650 REVISION: 2013	
PROCEDURE/TECHNIQUE: MATERIAL: C/S	
SOURCE DE 192 D CO 60 D SO 75 OU CE DV	<u> </u>
RESULTS: (ENTER UNITS OF MEASUREMENT IN TABLE HEADER)	(B) . 0 0 °°
VIEW O.D. NOM THE REIN SOD OFF	, UNLESS NOTED IN REMARKS
# IDENTIFICATION WS* VIEW O.D. NOM. THK. REIN. SOD OFD FILM TECH # OF TYPE # EXP REMARKS	ACC. REJ.
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V5A- 3	
V9A-1 P-1,5-2	
V9'A - 2	
V9A-3	
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The Client Representative who receives this report is responsible for verifying that the acceptance standard listed in the report is correct, confirming that all radiographs listed in the report have been received by Client and promptly notifying Acuren of any issues with this report and/or the work summarize	ed herein. The owner is responsible for
SIGNATURES:	

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2ºº TECHNICIAN (SIGNATURE) CGSB SNT CGSB	
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A&A Technical Services Yellowknife NT

Sabina MLA Fuel tank pad 60mil textured HDPE liner installation July 13-15, 2019



A&A Technical Services Yellowknife NT

Sabina MLA Fuel tank pad 60mil textured HDPE liner installation July 13-15, 2019

Page	<u>Table of contents</u>
1	Panel and seam layout drawing
2	Panel dimension log
3	Daily welder qualifications and destruct sample Q/C data.
4	Non-destructive air pressure test Q/C data.
5+6	Solmax factory roll Q/C data
7	IAGI CWT certificate
8	Subgrade acceptance and warranty

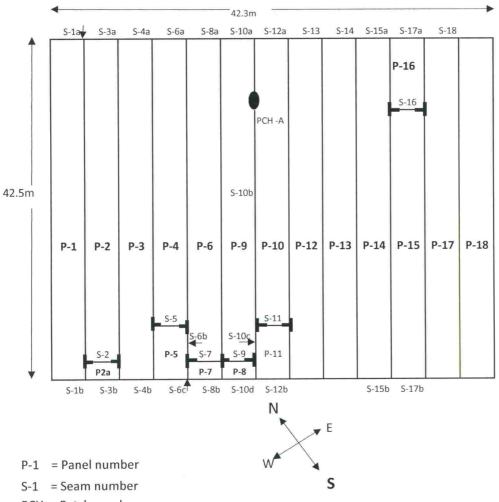




Sabina Gold and Silver
MLA site - Fuel Tank Pad HDPE liner installation.

60mil textured HDPE sandwiched between 540g/m2 non-woven geotextile.

Panel layout drawing.



PCH = Patch number

= Extrusion T weld

* Note: Not to scale



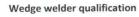
Sabina Gold and Silver
MLA site - Fuel Tank Pad HDPE liner installation.

Panel log

Panel #	Roll #	Length m	width m	m2
1	1-142263	42.5	3.25	138.1
2	1-142263	41	3.25	133.3
2a	1-142263	1.5	3.25	4.9
3	1-142263	42.5	3.25	138.1
4	1-142263	37.5	3.25	121.9
5	1-142263	5.0	3.25	16.3
6	1-142263	41.0	3.25	133.3
7	1-142263	1.5	3.25	4.9
8	1-142263	1.5	3.25	4.9
9	1-142263	41.0	3.25	133.3
10	1-142263	37.5	3.25	121.9
11	5-14314	5.0	3.25	16.3
12	5-14314	42.5	3.25	138.1
13	5-14314	42.5	3.25	138.1
14	5-14314	42.5	3.25	138.1
15	5-14314	30.6	3.25	99.5
16	5-14314	11.9	3.25	38.7
17	5-14314	42.5	3.25	138.1
18	5-14314	42.5	3.25	138.1

Total m2 1795.6

Sabina Gold and Silver MLA site - Fuel Tank Pad HDPE liner installation.



Peel strength

	reerstrength		
14-Jul-19	Inside weld	Outside weld	Minimum ppi (lbs/inch)
1	136	141	91
2	140	140	91
3	142	136	91
4	145	142	91

Shear Strength

14-Jul-19		Minimum ppi (lbs/inch)
1	161	120
2	155	120

Peel strength

15-Jul-19	Inside weld	Outside weld	Minimum ppi (lbs/inch)			
1	144	135	91			
2	146	150	91			
3	148	151	91			
4	146	149	91			

Shear Strength

15-Jul-19		Minimum ppi (lbs/inch)
1	161	120
2	160	120

Destruct samples taken from N. end of seam 1 peel tests

15-Jul-19	Inside weld	Outside weld	Minimum ppi (lbs/inch)		
1	144	139	91		
2	144	146	91		

Destruct samples taken from either side of PCH A peel tests

15-Jul-19	Inside weld	Outside weld	Minimum ppi (lbs/inch)
1 North	144	139	91
2 North	144	146	91
3 South	152	149	91
4 South	145	149	91

Extrusion welder qualification

15-Jul-19	Peel strength	Minimum ppi (lbs/inch)
1	138	78
2	144	78

Shear Strength

Jilear Strength	
158	120
152	120
	158 152





Sabina Gold and Silver MLA site - Fuel Tank Pad HDPE liner installation.

Non destructive air pressure testing

Non destructive air pressure testing									
Date	Technician	Seam #	Start psi	Finish psi	Pass/Fail	Comments			
15-Jun-19	АН	S-1a	30	30	Pass				
15-Jun-19	АН	S-1b	35	35	Pass				
15-Jun-19	АН	S-2	35	35	Pass				
15-Jun-19	АН	S-3a	35	35	Pass				
15-Jun-19	АН	S-3b	35	35	Pass				
15-Jun-19	AH	S-4a	35	35	Pass				
15-Jun-19	AH	S-4b	34	34	Pass				
15-Jun-19	AH	S-5	34	34	Pass				
15-Jun-19	АН	S-6a	35	35	Pass				
15-Jun-19	АН	S-6b	35	35	Pass				
15-Jun-19	АН	S-6c	35	35	Pass				
15-Jun-19	AH	S-7	35	35	Pass				
15-Jun-19	SH	S-8a	35	35	Pass				
15-Jun-19	SH	S-8b	35	35	Pass				
15-Jun-19	SH	S-9	35	35	Pass				
15-Jun-19	SH	S-10a	35	35	Pass				
15-Jun-19	SH	S-10b	35	35	Pass				
15-Jun-19	SH	S-10c	40	40	Pass				
15-Jun-19	SH	S-10d	35	35	Pass				
15-Jun-19	SH	S-11	35	35	Pass				
15-Jun-19	SH	S-12a	35	35	Pass				
15-Jun-19	SH	S-12b	36	36	Pass				
15-Jun-19	SH	S-13	35	35	Pass				
15-Jun-19	SH	S-14	35	35	Pass				
16-Jun-19	SH	S-15a	35	35	Pass				
16-Jun-19	SH	S-15b	35	35	Pass				
16-Jun-19	SH	S-16	30	30	Pass				
16-Jun-19	SH	S-17a	30	30	Pass				
16-Jun-19	SH	S-17b	33	33	Pass				
16-Jun-19	SH	S-18	35	35	Pass				



MANUFACTURING QUALITY CONTROL

Test Results - Rolls

Solmax. 2801 Boul, Marie-Victorin, Varennes, Qc. Canada, J3X 1P7 Tél.; 1-450-929-1234 • Fax.; 1-450-929-2547 • www.solmax.com

Project Name: Whati - NWT

Project Number: 19-008

Reference Number:

112486

Packing Slip Number:

226974

Product: 1039792

HDPE 1.50 mm Black ST

CE Certificate = HD-60-ST-BB

Properties		Thickness ave / min.	Geo- membrane Density	Carbon Black Content	Carbon Black Dispersion	Yie Strength	ld	sile Bre Strength		Tear Resist.	Puncture Resist.	Dimension. Stability	Asperity Height in / out
Unit		mm	g/cc	%	Cat. 1 and 2	kN/m	%	kN/m	%	N	N	%	mm
Test Metho	od	D5994	D1505/D792	D4218 / D1603	D5596		D66	593	20100000	D1004	D4833	D1204	D7466
Frequency		Each roll		1/2 ro	1/10 го	1/2 ro			1/5 ro	1/5 ro	Certied	Each Roll	
Specification	on	1.43 / 1.28	≥ 0.940	2.0 - 3.0	Cat. 1 / Cat. 2	23	13	23	150	200	535	± 2	0.40
1-142255	MD XD	1.43 / 1.38	0.950	2.54	10 /10 Views	26.1 26.3	17.5 16.4	35.8 31.6	566 524	206 220	602		/ 0.57
1-142257	MD XD	1.43 / 1.38	0.950	2.67	10 /10 Views	26.2 26.4	17.6 16.7	36.9 31.5	598 544	206 220	602		/ 0.56
1-142263) MD XD	1.44 / 1.40	0.951	2.55	10 /10 Views	25.4 25.5	18.1 16.8	38.3 31.7	627 555	207 221	601		/ 0.51

Solmax is not a design professional and has not performed any design services to determine if Solmax's goods comply with any project plans or specifications, or with the application or use of Solmax's goods to any particular system, project, purpose, installation or specification.



MANUFACTURING QUALITY CONTROL

Test Results - Rolls

Solmax, 2801 Boul, Marie-Victorin, Varennes, Qc. Canada, J3X 1P7 Tet.: 1-450-929-1234 • Fax.: 1-450-929-2547 • www.solmax.com

Project Name

Shell Albian Sands, Fort McMur

Project Number: 00019681

Reference Number:

108048

Packing Slip Number:

216856

Product Solmax 460CWST-9003

HDPE 1.50 mm S-Textured - Conductive White

CE Certificate = 60--

Properties	Thickness ave / min.	Geo- membrane Density	Carbon Black Content	Carbon Black Dispersion	Tensile Yield Break Strength Elong. Strength Elong.				Tear Resist.	Puncture Resist.	Dimension. Stability	Asperity Height in / out
Unit	mm	g/cc	%	Cat. 1 and 2	kN/m	%	kN/m	%	N	N	%	mm D7466
Test Method	D5994	D1505/D792	D4218 / D1603	D5596		D66			D1004	D4833	D1204	
Frequency	Each roll	1/2 ro	1/2 ro	1/6 ro		1/2	го	***************************************	1/6 ro	1/6 ro	1/6 ro	Each roll
Specification	1.43 / 1.28	≥ 0.940	2.0 - 3.0	Cat. 1 / Cat. 2	23	13	23	150	200	534	± 2	0.38
5-14297 MD XD	56.2 / 55	0.947	2.70	10 /10 Views	151.8 151.2	17.9 17.0	233 227	627 635	46.7 50.1	147.9	-0.15 -0.13	16.8
5-14302 ME XD	50.07.55	0.947	2.51	10 /10 Views	151.2 152.6	17.4 16.7	245 239	661 668	46.7 50.1	147.9	-0.15 -0.13	16.5 /
5-14304 ME XD	E BOX 7 (1900 B / \$276 9000000	0.948	2.71	10 /10 Views	148.7 152.2	17.8 16.3	237 227	612 662	46.3 51.2	147.8	-0.22 -0.03	16.5
5-14308 ME XD	1 BECY 456 1 / BOT COURSE	0.948	2.72	10 /10 Views	147.1 156.3	17.6 16.3	217 210	602 607	46.3 51.2	147.8	-0.22 -0.03	17.9 /
5-14309 ME XD	1 800 WAR 11 / S. C. SHOW	0.949	2.76	10 /10 Views	150.0 153.5	17.9 16.1	218 218	596 628	46.4 49.6	146.9	-0.22 -0.03	18.1 /
5-14314 MI	3 002-Y-905 B / E-Y-90500	0.950	2.82	10 /10 Views	145.6 151.9	17.9 16.8	230 217	645 641	45.9 50.0	147.1	-0.11 -0.04	17.1 /
5-14315 MI		0.950	2.82	10 /10 Views	145.6 151.9	17.9 16.8	230 217	645 641	45.9 50.0	147.1	-0.11 -0.04	17.2 /
5-14316 MI		0.948	2.84	10 /10 Views	141.4 147.7	18.4 16.6	216 222	608 670	45.9 50.0	147.1	-0.11 -0.04	17.2 /
5-14318 MI		0.948	2.73	10 /10 Views	145.1 154.3	18.1 16.9	235 213	639 624	45.9 50.0	147.1	-0.11 -0.04	16.9
5-14320 MI	1 BORCY (196.3 II / SCYN 900000)	0.951	2.73	10 /10 Views	147.7 146.2	17.9 16.9	219 226	623 653	46.4 50.2	147.2	-0.11 -0.04	16,6/
5-14321 MI	505/55	0.951	2.73	10 /10 Views	147.7 146.2	17.9 16.9	219 226	623 653	46.4 50.2	147.2	-0.11 -0.04	17.2 /
5-14322 MI	E BEST CONS. / ESSENCE	0.949	2.65	10 /10 Views	150.6 146.8	17.4 17.6	214 222	571 657	46.4 50.2	147.2	-0.11 -0.04	19,4 /
5-14323 MI	1 100-1 (100-1)	0.949	2.65	10 /10 Views	150.6 146.8	17.4 17.6	214 222	571 657	46.4 50.2	147.2	-0.11 -0.04	17.6

Solmax is not a design professional and has not performed any design services to determine if Solmax's goods comp with the application or use of Solmax's goods to any particular system, project, purpose, installation or specification.

CERTIFIED WELDING TECHNICIAN



The International Association of Geosynthetic Installers Certifies:

ALAN HARMAN

As a **Certified Welding Technician**, in polyethylene wedge and extrusion welding, having demonstrated superior hands-on skills, knowledge and experience in the welding and installation of polyethylene (PE) geomembranes, and having basic mechanical aptitude for working with welders and equipment on the job site.

Registration number: CWI162010

Valid 07 June 2016 --- 07 June 2021

President, IAGI

itemational Association of Geosynthetic Installers

Managing Director, IAG

A&A Technical Services Subgrade acceptance and warranty

Client –Sabina Gold and Silver MLA – Fuel Tank pad liner installation. July 13-15, 2019

Upon arrival to site the fuel tank pad area to be lined was thoroughly inspected by A&A Technical Services installation supervisor and deemed to be a suitable surface on which to place the HDPE lining system. The SOLMAX 60mil textured HDPE liner was sandwiched between two layers of 540g/m2 non-woven geotextile.

Warranties issued by A&A Technical Services shall cover only the cost of replacement and/or repair of defective installations, determined or agreed to be the responsibility of A&A Technical Services, provide that the warranty work will be performed to the same standards and scope of work set out in the contract documents. A&A's installation warranty shall commence upon acceptance of the individual geosynthetic components by the owner or its representative as such components are completed. The installation warranty period shall not exceed beyond 1 years. Our installation warranty is rendered null and void if the installed geosynthetics are subject to abuse by machinery, equipment or personnel not under the control of A&A, harmful chemicals or unusual weather conditions or catastrophic earthworks failures.

A&A Technical Services shall not be held liable for defects, damage and/or deficient materials and installations, either in whole or in part should the defects, damage or deficient materials and installations arise as the result from the use of poor quality and inappropriate or unsuitable earthworks material or site preparation. This limitation of liability extends to improper and/or construction techniques, and methods and equipment used to create the earthworks covering all or any portion of the completed geosynthetic installation.

Signed: Olom Hanna Dated: July 16, 2019

Al Harman President A&A Technical Services Yellowknife NT

A&A Technical Services Yellowknife NT

Sabina Gold and Silver - MLA

Fuel tank farm HDPE liner installation Q/C report July 30 – August 18, 2021



Sabina Gold and Silver - MLA

Fuel tank farm HDPE liner installation Q/C report July 30 – August 18, 2021

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4-5	Solmax quality control roll certificates
6-9	Daily wedge and extrusion welder qualification data
10-12	Non-destruct air pressure seam testing and vac box test data
13	A&A Technical Services installation warranty

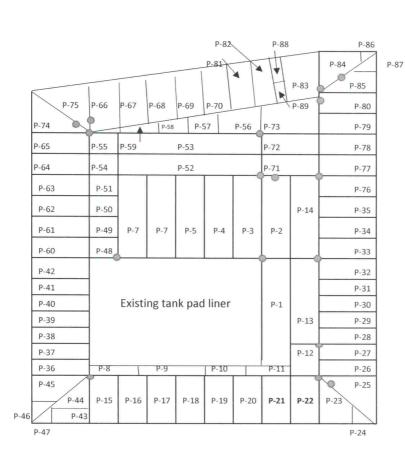


A&A Technical Services
Yellowknife NT
July 30-August 18, 2021
Sabina Gold and Silver
MLA site - Fuel Tank Farm HDPE liner installation phase II



N

Panel layout drawing.



Wedge weld seams		
Patches	0	
Liner panel		see liner panel log for dimensions

Note: Not to scale

A&A Technical Services
Yellowknife NT
July 30-August 18, 2021
Sabina Gold and Silver
MLA site - Fuel Tank Farm HDPE liner installation phase II



	TECHNICAL SERVICES				
Date placed	Panel #	Roll #	Length m	width m	m2
Aug. 2, 2021	1	2097290	45.0	6.7	301.5
Aug. 4, 202	2	2-97290	30.0	6.7	201
Aug. 4, 202	3	2-97304	30.0	6.7	201
Aug. 4, 202	4	2-97304	30.0	6.7	201
Aug. 4, 202	5	2-97304	30.0	6.7	201
Aug. 4, 202	6	2-97304	30.0	6.7	201
Aug. 4, 202	7	2-97304	30.0	6.7	201
Aug. 6, 2021	8	2-97317	12.0	6.0	72
Aug. 6, 2021	9	2-97317	15.0	6.0	90
Aug. 6, 2021	10	2-97317	12.0	6.0	72
Aug. 6, 2021	11	2-97317	13.0	6.0	78
Aug. 7, 2021	12	2-97317	5.0	6.7	33.5
Aug. 7, 2021	13	2-97317	40.0	6.7	268
Aug. 7, 2021	14	2-97317	30.0	6.7	201
Aug. 9, 2021	15	2-97317	11.0	6.7	73.7
Aug. 9, 2021	16	2-97317	11.0	6.7	73.7
Aug. 9, 2021	17	2-97320	11.0	6.7	73.7
Aug. 9, 2021	18	2-97320	11.0	6.7	73.7
Aug. 9, 2021	19	2-97320	11.0	6.7	73.7
Aug. 9, 2021	20	2-97320	11.0	6.7	73.7
Aug. 9, 2021	21	2-97320	11.0	6.7	73.7
Aug. 9, 2021	22	2-97320	11.0	6.7	73.7
Aug. 10, 2021	23	2-97320	11.0	6.7	73.7
Aug. 10, 2021	24	2-97320	4.0	4.0	16
Aug. 10, 2021	25	2-97320	11.0	3.4	37.4
Aug. 10, 2021	26	2-97320	11.0	6.7	73.7
Aug. 10, 2021	27	2-97320	11.0	6.7	73.7
Aug. 10, 2021	28	2-97320	11.0	6.7	73.7
Aug. 10, 2021	29	2-97320	11.0	6.7	73.7
Aug. 10, 2021	30	2-97320	11.0	6.7	73.7
Aug. 10, 2021	31	2-97300	11.0	6.7	73.7
Aug. 11 , 2021	32	2-97300	11.0	6.7	73.7
Aug. 11 , 2021	33	2-97300	11.0	6.7	73.7
Aug. 11 , 2021	34	2-97300	11.0	6.7	73.7
Aug. 11 , 2021	35	2-97300	11.0	6.7	73.7
Aug. 12, 2021	36	2-97300	11.0	6.7	73.7
Aug. 12, 2021	37	2-97300	11.0	6.7	73.7
Aug. 12, 2021	38	2-97300	11.0	6.7	73.7
Aug. 12, 2021	39	2-97300	11.0	6.7	73.7
Aug. 12, 2021	40	2-97300	11.0	6.7	73.7
	40			6.7	73.7
Aug. 12, 2021	41	2-97300	11.0		73.7
Aug. 12, 2021	43	2-97300	11.0	6.7	
Aug. 13, 2021	43	2-97300	5.0	6.0	30
Aug. 13, 2021		2-97300	4.0	4.0	16
Aug. 13, 2021	45	2-97300	5.0	5.0	25
Aug. 13, 2021	46	2-97300	4.0	3.0	12 9
Aug. 13, 2021	47	2-97300	3.0	3.0	_
Aug. 14, 2021	48	2-97293	8.0	6.7	53.6
Aug. 14, 2021	49	2-97293	8.0	6.7	53.6
Aug. 14, 2021	50	2-97293	8.0	6.7	53.6
Aug. 14, 2021	51	2-97293	8.0	6.7	53.6
Aug. 14, 2021	52	2-97293	30.0	6.7	201
Aug. 14, 2021	53	2-97293	30.0	6.7	
Aug. 14, 2021	54	2-97293	8.0	6.7	53.6

A&A Technical Services
Yellowknife NT
July 30-August 18, 2021
Sabina Gold and Silver
MLA site - Fuel Tank Farm HDPE liner installation phase II



Liner panel log continued

		Tiner panel log			
Date placed	Panel #	Roll #	Length m	width m	m2
Aug. 14, 2021	55	2-97293	8.0	6.7	53.6
Aug. 14, 2021	56	2-97293	10.0	3.0	30
Aug. 14, 2021	57	2-97293	7.0	3.0	21
Aug. 14, 2021	58	2-97293	7.0	2.0	14
Aug. 14, 2021	59	2-97293	12.0	1.5	18
Aug. 15, 2021	60	2-97302	11.0	6.7	73.7
Aug. 15, 2021	61	2-97302	11.0	6.7	73.7
Aug. 15, 2021	62	2-97302	11.0	6.7	73.7
Aug. 15, 2021	63	2-97302	11.0	6.7	73.7
Aug. 15, 2021	64	2-97302	11.0	6.7	73.7
Aug. 15, 2021	65	2-97302	11.0	6.7	73.7
Aug. 15, 2021	66	2-97302	11.0	6.7	73.7
Aug. 15, 2021	67	2-97302	11.0	6.7	73.7
Aug. 15, 2021	68	2-97302	11.0	6.7	73.7
Aug. 15, 2021	69	2-97302	11.0	6.7	73.7
Aug. 15, 2021	70	2-97302	11.0	6.7	73.7
Aug. 16, 2021	71	2-97314	20.0	6.7	134
Aug. 16, 2021	72	2-97314	20	6.7	134
Aug. 16, 2021	73	2-97314	20	6.7	134
Aug. 17, 2021	74	2-97314	11	3.4	37.4
Aug. 17, 2021	75	2-97314	11.0	3.4	37.4
Aug. 17, 2021	76	2-97314	11	6.7	73.7
Aug. 17, 2021	77	2-97314	11	6.7	73.7
Aug. 17, 2021	78	2-97314	11.0	6.7	73.7
Aug. 17, 2021	79	2-97314	11.0	6.7	73.7
Aug. 17, 2021	80	2-97314	11.0	6.7	73.7
Aug. 17, 2021	81	2-97314	11.0	6.7	73.7
Aug. 17, 2021	82	2-97314	12.0	6.7	80.4
Aug. 17, 2021	83	2-97314	12.0	6.7	80.4
Aug. 17, 2021	84	2-97314	6.0	6.7	40.2
Aug. 17, 2021	85	2-97314	5.0	6.7	33.5
Aug. 17, 2021	86	2-97314	2.0	4.0	8
Aug. 17, 2021	87	2-97314	2.5	4.0	10
Aug. 17, 2021	88	2-97314	1.5	5.5	8.25
Aug. 17, 2021	89	2-97314	1.5	5.5	8.25
				Total m2	7188.9
 -		-			
			-		
] !	



MANUFACTURING QUALITY CONTROL

Test Results - Rolls

Solmax, 2801 Boul, Marie-Victorin, Varennes, Qc, Canada, J3X 1P7 Tél.: 1-450-929-1234. • Fax.: 1-450-929-2547. • www.solmax.com

Project Name : Sabina Gold - Hay River, NWT

Project Number: PC00133

Reference Number:

111930

Packing Slip Number:

225503

Product: 1037703

HDPE 1.50 mm Black Smooth

CE Certificate = HD-60-SS-BB

Properties	3	Thickness ave / min.	Geo- membrane Density	Carbon Black Content	Carbon Black Dispersion	Yie Strength		Bre		Tear Resist.	Puncture Resist.	Dimension. Stability	Asperity Height in / out
Unit Test Meth	od	mm D5199	g/cc D1505/D792	% D4218 / D1603	Cat. 1 and 2 D5596	kN/m	% D66	kN/m 93	%	N D1004	N D4833	% D1204	mm
Frequency	7	Each roll		1/2 ro	1/10 ro		1/2	го		1/5 ro	1/5 ro	Certied	N/A
Specificati	on	1.50 / 1.35	≥ 0.940	2.0 - 3.0	Cat. 1 / Cat. 2	23	13	43	700	187	534	± 2	
2-97288	MD XD	1.51 / 1.48	0.945	2.46	10 /10 Views	24.9 26.3	18.9 16.7	51.2 51.8	844 922	206 222	611		1
2-97289	MD XD	1.51 / 1.47	0.945	2.46	10 /10 Views	24.9 26.3	18.9 16.7	51.1 51.8	844 922	206 222	611		1
2-97294	MD XD	1.50 / 1.48	0.944	2.43	10 /10 Views	25.0 26.5	18.9 16.7	50.2 50.5	821 896	198 213	617		7
2-97296	MD XD	1.50 / 1.45	0.944	2.41	10 /10 Views	24.8 26.0	18.8 16.9	48.4 51.0	800 901	200 211	618		1
2-97298	MD XD	1.50 / 1.46	0.944	2.45	10 /10 Views	25.6 26.3	18.2 16.2	49.9 51.1	824 896	200 211	618		/
2-97299	MD XD	1.52 / 1.49	0.944	2.45	10 /10 Views	25.6 26.3	18.2 16.2	49.9 51.1	824 896	200 211	618		1
2-97300	MD XD	1.51 / 1.48	0.950	2.49	10 /10 Views	25.9 26.6	18.2 16.6	48.8 50.1	800 869	203 217	617		Į.
2-97301	MD XD	1.51 / 1.46	0.950	2.49	10 /10 Views	25.9 26.6	18.2 16.6	48.9 50.1	800 869	203 217	617		/
2-97302	MD XD	1.51 / 1.48	0.950	2.47	10 /10 Views	26.4 27.0	18.3 16.5	52.7 51.1	846 884	203 217	617		1
2-97303	MD XD	1.51 / 1.46	0.950	2.47	10 /10 Views	26.4 27.0	18.3 16.5	52.7 51.1	846 884	203 217	617		1
2-97306	MD XD	1.50 / 1.47	0.950	2.42	10 /10 Views	26.3 26.8	17.6 16.4	49.3 52.7	798 916	200 214	597		/
2-97307	MD XD	1.50 / 1.46	0.950	2.42	10 /10 Views	26.3 26.8	17.6 16.4	49.4 52.7	798 916	200 214	597		/
2-97308	MD XD	1.50 / 1.46	0.950	2.52	10 /10 Views	25.8 26.9	18.2 16.7	49.0 52.5	799 913	200 214	597		/
2-97309	MD XD	1.51 / 1.47	0.950	2.52	10 /10 Views	25.8 26.9	18.2 16.7	49.0 52.5	799 913	200 214	597		1
2-97310	MD XD	1.51 / 1.48	0.950	2.39	10 /10 Views	25.1 25.9	18.4 17.0	47.6 51.5	794 911	199 213	622		./
2-97311	MD XD	1 1 51 / 1 / 12	0.950	2.39	10 /10 Views	25.1 25.9	18.4 17.0	47.6 51.5	794 911	199 213	622		/
2-97312	MD XD	1 1 51 / 1 47	0.950	2.56	10 /10 Views	25.0 26.3	18.6 17.1	50.1 50.2	821 887	199 213	622		/

Page 2 of 3

27-Jun-18



MANUFACTURING QUALITY CONTROL

Test Results - Rolls

Solmax, 2801 Boul, Marie-Victorin, Varennes, Qc, Canada, J3X 1P7 Tél.: 1-450-929-1234 • Fax.: 1-450-929-2547 • www.solmax.com

Project Name : Sabina Gold - Hay River, NWT

Project Number: PC00133

Reference Number:

111930

er: PC00133

Packing Slip Number :

225504

Product: 1037703

HDPE 1.50 mm Black Smooth

CE Certificate = HD-60-SS-BB

Properties	8	Thickness ave / min.	Geo- membrane Density	Carbon Black Content	Carbon Black Dispersion	Yie Strength	Ten ld Elong.	Bre	eak Elong.	Tear Resist.	Puncture Resist.	Dimension. Stability	Asperity Height in / out
Unit Test Meth	od	mm D5199	g/cc D1505/D792	% D4218 / D1603	Cat. 1 and 2 D5596	kN/m	% D66	kN/m 93	%	N D1004	N D4833	% D1204	mm
Frequency	7	Each roll	-	1/2 ro	1/10 ro		1/2	ro	r	1/5 ro	1/5 ro	Certied	N/A
Specificati	on	1.50 / 1.35	≥ 0.940	2.0 - 3.0	Cat. 1 / Cat. 2	23	13	43	700	187	534	± 2	
-97290	MD XD	1.51 / 1.48	0.944	2.38	10 /10 Views	25.5 26.1	18.3 16.9	48.7 51.8	810 897	198 213	617		/
-97291	MD XD	1.52 / 1.48	0.944	2.38	10 /10 Views	25.5 26.1	18.3 16.9	48.7 51.8	810 897	198 213	617		/
-97292	MD XD	1.50 / 1.46	0.944	2.45	10 /10 Views	24.9 26.5	18.9 17.1	49.3 51.6	814 918	198 213	617		1
-97293	MD XD	1.50 / 1.46	0.944	2.45	10 /10 Views	24.9 26.5	18.9 17.1	49.4 51.5	814 918	198 213	617		/
-97295	MD XD	1.51 / 1.47	0.944	2.43	10/10 Views	25.0 26.5	18.9 16.7	50.1 50.6	821 896	200 211	618		/
-97297	MD XD	1.51 / 1.47	0.944	2.41	10/10 Views	24.8 26.0	18.8 16.9	48.5 51.0	800 901	200 211	618		1
-97304	MD XD	1.50 / 1.47	0.950	2.47	10/10 Views	25.8 26.3	18.3 16.4	49.0 52.7	813 918	203 217	617		1
2-97305	MD XD	1.51 / 1.47	0.950	2.47	10/10 Views	25.8 26.3	18.3 16.4	49.0 52.7	813 918	200 214	597		1
-97314	MD XD	1.51 / 1.46	0.950	2.53	10/10 Views	24.8 26.4	18.5 16.7	50.4 52.5	832 916	199 213	622		/
-97315	MD XD	1.51 / 1.45	0.950	2.53	10/10 Views	24.8 26.4	18.5 16.7	50.4 52.5	832 916	198 212	622		/
-97316	MD XD	1.51 / 1.48	0.950	2.37	10/10 Views	25.3 26.4	18.8 16.8	46.3 51.8	769 909	198 212	622		1
-97317	MD XD	1.51 / 1.48	0.950	2.37	10 /10 Views	25.3 26.4	18.8 16.8	46.4 51.8	769 909	198 212	622		1
-97318	MD XD	1.51 / 1.45	0.950	2.50	10 /10 Views	24.7 25.6	18.9 17.1	47.1 52.4	786 921	198 212	622		/
-97319	MD XD	1.53 / 1.49	0.950	2.50	10/10 Views	24.7 25.6	18.9 17.1	47.1 52.4	786 921	198 212	622		1
-97320	MD XD	1.54 / 1.50	0.948	2.51	10 /10 Views	25.6 27.1	18.7 16.3	51.3 52.7	831 915	204 217	612		1
-97321	MD XD	1.53 / 1.49	0.948	2.51	10 /10 Views	25.6 27.1	18.7 16.3	51.3 52.7	831 915	204 217	612		/-
-97322	MD XD	1.53 / 1.49	0.948	2.40	10 /10 Views	26.3 27.2	18.4 16.8	51.2 52.6	826 912	204 217	612		1.

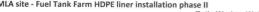
A&A Technical Services
Yellowknife NT
July 30-August 18, 2021
Sabina Gold and Silver
MLA site - Fuel Tank Farm HDPE liner installation phase II

Daily Wedge Welder Qualification Data



				elder Qualification Data	ļ	
	Wedge welde	er #2 daily qualifica	ation	Ambient temp: '+17C	broken cloud	THE STATE OF THE S
		Peel strength		calm winds	Tech: AH	Technical Market
Date	Aug. 2, 2021	Inside weld	Outside weld	Minimum ppi (lbs/inch)	Comments	
Test #	1	128	130	91	Broke outside weld, no peel	
	2	124	140	91	SAA	
	3	131	127	91	SAA	
	4	132	130	91	SAA	
Date	Aug. 2, 2021	Shear Strength		Minimum ppi (lbs/inch)	Comments	
Test #	1	152		120	Necked outside weld	
	2	155		120	SAA	
	3	145		120	SAA	
	4	149		120	SAA	
	Wedge welde	er #2 daily qualifica	ntion	Ambient temp: '+10C	overcast	
		Peel strength		calm winds	Tech: AH	
Date	Aug. 4, 2021	Inside weld	Outside weld	Minimum ppi (lbs/inch)	Comments	
Test #	1	135	132	91	Broke outside weld, no peel	
	2	136	129	91	SAA	
	3	128	131	91	SAA	
	4	132	135	91	SAA	
Date	Aug. 4, 2021	Shear Strength		Minimum ppi (lbs/inch)	Comments	
Test #	1	155		120	Necked outside weld	
	2	151		120	SAA	
	3	149		120	SAA	
	4	157		120	SAA	
		er #2 daily qualifica	ation	Ambient temp: '+6C	overcast	
	wedge welde	Peel strength	ition	calm winds	Tech: GH	
Date	Aug. 5, 2021		0.1.1			
	Mug. 5, 2021	Inside weld	Outside weld	Minimum ppi (lbs/inch)	Comments	
Test #	1	129	134	91	Broke outside weld, no peel	
	2	135	135	91	SAA	
	3	140	132	91	SAA	
	4	135	131	91	SAA	
Date	Aug. 5, 2021	Shear Strength		Minimum ppi (lbs/inch)	Comments	
Test #	1	161		120	Necked outside weld	
	2	152		120	SAA	
	3	158		120	SAA	
	4	158		120	SAA	
Date	Aug. 5, 2021	Test		Location	Comments	
		Vac Box			Pass	
	Wedge welde	er #2 daily qualifica	ation	Ambient temp: '+7C		
		Peel strength		Breeze	Tech: GH	
Date	Aug. 6, 2021	Inside weld	Outside weld	Minimum ppi (lbs/inch)	Comments	
Test #	1	131	127	91	Broke outside weld, no peel	
	2	133	132	91	SAA	
	3	125	131	91	SAA	
	4	130	134	91	SAA	
Date	Aug. 6, 2021	Shear Strength		Minimum ppi (lbs/inch)	Comments	
Test #	1	151		120	Necked outside weld	
1000.11	2	148		120	SAA	
	3	155		120	SAA	
	4	152		120	SAA	
		er #2 daily qualific	ation	Ambient temp: '+8C	overcast in am/Broken cloud PM wind	4,,
	wenge wein	Peel strength	out on	breeze from NE	Tech: GH	- 7
Date	Aug. 7, 2021	Inside weld	Outside weld		Comments	
	Aug. 7, 2021	129		Minimum ppi (lbs/inch) 91		
Test #		1999-2	128		Broke outside weld, no peel	
	2	135	127	91	SAA	
	3	129	129	91	SAA	
	4	129	134	91	SAA	
Date	Aug. 7, 2021	Shear Strength		Minimum ppi (lbs/inch)	Comments	
Test #	1	149		120	Necked outside weld	
	2	152		120	SAA	
	3	155		120	SAA	
	4	148		120	SAA	
	Wedge welde	er #2 daily qualific	ation	Ambient temp: '+12C	broken cloud	
		Peel strength		light breeze	Tech: AH	
Date	Aug. 9, 2021	Inside weld	Outside weld	Minimum ppi (lbs/inch)	Comments	
Test #	1	127	128	91	Broke outside weld, no peel	
	2	125	125	91	SAA	
	3	129	131	91	SAA	
	4	124	129	91	SAA	
Date	Aug. 9, 2021	Shear Strength		Minimum ppi (lbs/inch)	Comments	
Test #	1	151		120	Necked outside weld	
	2	148		120	SAA	
	3	149		120	SAA	
	4	145		120	SAA	
	- 7	~70		120	71.70	

A&A Technical Services
Yellowknife NT
July 30-August 18, 2021
Sabina Gold and Silver
MLA site - Fuel Tank Farm HDPE liner installation phase II
Daily Wedge Welder Qualification Data



	167-11-1-	42 I II III			TECHNICAL S
	Wedge welde	er #2 daily qualifica	ation	Ambient temp: '+14C	broken cloud
Date	A 10 2021	Peel strength	0 1 1 1 1	breeze NE	Tech: AH
Test #	Aug. 10, 2021	Inside weld	Outside weld	Minimum ppi (lbs/inch)	Comments
Test #	1	125	124	91	Broke outside weld, no peel
	2	125	128	91	SAA
	3	122	131	91	SAA
	4	127	128	91	SAA
Date	Aug. 10, 2021	Shear Strength		Minimum ppi (lbs/inch)	Comments
Test #	1	149		120	Necked outside weld
	2	155		120	SAA
	3	148		120	SAA
	4	148		120	SAA
	Wedge welde	er #2 daily qualifica	tion	Ambient temp: '+8C	overcast
	- reage nead	Peel strength	ition	Windy NE heavy gusts	Tech: GH
Date	Aug 11 2021	Inside weld	Outside weld		
	Aug. 11, 2021			Minimum ppi (lbs/inch)	Comments
Test #	_	131	133	91	Broke outside weld, no peel
	2	125	132	91	SAA
	3	131	135	91	SAA
	4	133	129	91	SAA
Date	Aug. 11, 2021	Shear Strength		Minimum ppi (lbs/inch)	Comments
Test #	1	155		120	Necked outside weld
	2	152		120	SAA
	3	160		120	SAA
	4	155		120	SAA
	7		Alam		
	wedge welde	er #2 daily qualifica	ition	Ambient temp: '+10C	broken cloud
		Peel strength		light breeze NE	Tech: AH
Date	Aug. 12, 2021	Inside weld	Outside weld	Minimum ppi (lbs/inch)	Comments
Test #	1	134	131	91	Broke outside weld, no peel
	2	128	130	91	SAA
	3	132	132	91	SAA
	4	129	127	91	SAA
Date	Aug. 12, 2021	Shear Strength	127	Minimum ppi (lbs/inch)	Comments
Test #					
Test#	1	149		120	Necked outside weld
	2	155		120	SAA
	3	155		120	SAA
	4	150		120	SAA
	Wedge wolde	er #2 daily qualifica	otion	Ambient temp: '+14C	broken cloud
	wedge weide	" "Z uany quannica	ition	Ambient temp. 714C	broken cloud
	wedge welde	Peel strength	ition	light breeze SW	Tech: AH
Date		Peel strength		light breeze SW	Tech: AH
0.10.0710	Aug. 13, 2021	Peel strength Inside weld	Outside weld	light breeze SW Minimum ppi (lbs/inch)	Tech: AH Comments
Date Test #	Aug. 13, 2021	Peel strength Inside weld 127	Outside weld 124	light breeze SW Minimum ppi (lbs/inch) 91	Tech: AH Comments Broke outside weld, no peel
0.10.0710	Aug. 13, 2021 1 2	Peel strength Inside weld 127 124	Outside weld 124 124	light breeze SW Minimum ppi (lbs/inch) 91 91	Tech: AH Comments Broke outside weld, no peel SAA
0.10.0710	Aug. 13, 2021 1 2 3	Peel strength Inside weld 127 124 127	Outside weld 124 124 129	light breeze SW Minimum ppi (lbs/inch) 91 91 91	Tech: AH Comments Broke outside weld, no peel SAA SAA
Test #	Aug. 13, 2021 1 2 3 4	Peel strength Inside weld 127 124 127 123	Outside weld 124 124	light breeze SW Minimum ppi (lbs/inch) 91 91 91 91 91	Tech: AH Comments Broke outside weld, no peel SAA SAA SAA
Test #	Aug. 13, 2021 1 2 3 4 Aug. 13, 2021	Peel strength Inside weld 127 124 127 123 Shear Strength	Outside weld 124 124 129	light breeze SW Minimum ppi (lbs/inch) 91 91 91 91 91 Minimum ppi (lbs/inch)	Tech: AH Comments Broke outside weld, no peel SAA SAA SAA Comments
Test #	Aug. 13, 2021 1 2 3 4 Aug. 13, 2021	Peel strength Inside weld 127 124 127 123 Shear Strength 151	Outside weld 124 124 129	light breeze SW Minimum ppi (lbs/inch) 91 91 91 91 91 10 Minimum ppi (lbs/inch) 120	Tech: AH Comments Broke outside weld, no peel SAA SAA SAA Comments Necked outside weld
Test #	Aug. 13, 2021 1 2 3 4 Aug. 13, 2021 1 2 2	Peel strength Inside weld 127 124 127 123 Shear Strength 151 145	Outside weld 124 124 129	light breeze SW Minimum ppi (lbs/inch) 91 91 91 91 91 120 120	Tech: AH Comments Broke outside weld, no peel SAA SAA SAA Comments Necked outside weld SAA
Test #	Aug. 13, 2021 1 2 3 4 Aug. 13, 2021	Peel strength Inside weld 127 124 127 123 Shear Strength 151 145	Outside weld 124 124 129	light breeze SW Minimum ppi (lbs/inch) 91 91 91 91 Minimum ppi (lbs/inch) 120 120	Tech: AH Comments Broke outside weld, no peel SAA SAA SAA Comments Necked outside weld SAA SAA SAA
Test #	Aug. 13, 2021 1 2 3 4 Aug. 13, 2021 1 2 2	Peel strength Inside weld 127 124 127 123 Shear Strength 151 145	Outside weld 124 124 129	light breeze SW Minimum ppi (lbs/inch) 91 91 91 91 91 120 120	Tech: AH Comments Broke outside weld, no peel SAA SAA SAA Comments Necked outside weld SAA
Test #	Aug. 13, 2021 1 2 3 4 Aug. 13, 2021 1 2 3 4 4 Aug. 4 4 Aug. 4 4 4	Peel strength Inside weld Inside weld 127 124 127 123 Shear Strength 151 145 150 149	Outside weld 124 124 129 126	light breeze SW Minimum ppi (lbs/inch) 91 91 91 91 91 10 120 120 120 120	Tech: AH Comments Broke outside weld, no peel SAA SAA SAA Comments Necked outside weld SAA SAA SAA
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Test # Date Test #	Aug. 13, 2021 2 3 4 Aug. 13, 2021 1 2 3 4 Wedge welde	Peel strength Inside weld 127 124 127 123 Shear Strength 151 145 150 149 er #2 daily qualifice Peel strength	Outside weld 124 124 129 126	light breeze SW Minimum ppi (lbs/inch) 91 91 91 91 10 120 120 120 Ambient temp: '+12C light breeze NW	Tech: AH Comments Broke outside weld, no peel SAA SAA SAA Comments Necked outside weld SAA SAA SAA SAA SAA
Test # Date Test #	Aug. 13, 2021 1 2 3 4 Aug. 13, 2021 2 3 4 Wedge welde Aug. 14, 2021	Peel strength Inside weld 127 124 127 123 Shear Strength 151 145 150 149 er #2 daily qualifice Peel strength Inside weld	Outside weld 124 124 129 126 126 ation Outside weld	light breeze SW Minimum ppi (lbs/inch) 91 91 91 91 91 Minimum ppi (lbs/inch) 120 120 120 120 Ambient temp: '+12C light breeze NW Minimum ppi (lbs/inch)	Tech: AH Comments Broke outside weld, no peel SAA SAA SAA Comments Necked outside weld SAA SAA SAA SAA broken cloud Tech: GH Comments
Test# Date Test#	Aug. 13, 2021 1 2 3 4 Aug. 13, 2021 1 2 3 4 Wedge welde Aug. 14, 2021	Peel strength Inside weld 127 124 127 123 Shear Strength 151 145 150 149 er #2 daily qualifica Peel strength Inside weld 129	Outside weld 124 124 129 126 stion Outside weld 124	light breeze SW Minimum ppi (lick/inch) 91 91 91 91 91 91 91 120 120 120 120 120 120 120 120 120 130	Tech: AH Comments Broke outside weld, no peel SAA SAA SAA Comments Necked outside weld SAA SAA SAA Comments Necked outside weld Tech: GH Comments Comments
Test# Date Test#	Aug. 13, 2021 2 3 4 Aug. 13, 2021 1 2 3 4 Wedge welde Aug. 14, 2021 1 2 2 3 4 2 3 4 2 4 3 4 2 4 2 4 4 2 4 4 2 4 4 2 4 4 2 4	Peel strength Inside weld 127 124 127 123 Shear Strength 151 145 150 149 172 daily qualiffice Peel strength Inside weld 127 127	Outside weld 124 124 129 126 Stion Outside weld 124 127	light breeze SW Minimum ppi (lbs/inch) 91 91 91 91 91 91 91 120 120 120 120 120 120 120 120 130 Ambient temp: '+12C light breeze NW Minimum ppi (lbs/inch) 91 91 91	Tech: AH Comments Broke outside weld, no peel SAA SAA SAA Comments Necked outside weld SAA SAA SAA SAA SAA SAA SAA Broken cloud Tech: GH Comments Broke outside weld, no peel SAA
Test # Date Test #	Aug. 13, 2021 1 2 3 4 Aug. 13, 2021 2 3 4 Wedge welde Aug. 14, 2021 1 2 3 3	Peel strength Inside weld 127 124 127 123 Shear Strength 151 145 150 149 172 daily qualifice Peel strength Inside weld 129 127 124	Outside weld 124 124 129 126 Dition Outside weld 124 127 129	light breeze SW Minimum ppi (lbs/inch) 91 91 91 91 10 120 120 120 120 Ight breeze NW Minimum ppi (lbs/inch) 91 91 91 91 91 91 91 91	Tech: AH Comments Broke outside weld, no peel SAA SAA SAA Comments Necked outside weld SAA SAA SAA SAA broken cloud Tech: GH Comments Broke outside weld, no peel SAA SAA SAA SAA SAA SAA SAA
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Test # Date Test # Date Test # Date Test #	Aug. 13, 2021 1 2 3 4 Aug. 13, 2021 2 3 4 Wedge welde Aug. 14, 2021 1 2 3 3	Peel strength 127 124 127 128 Shear Strength 151 145 150 149 187 181 181 181 182 182 182 182 183 184 185 185 185 185 187 187 188 188 188 188 188 188 188 188	Outside weld 124 124 129 126 Dition Outside weld 124 127 129	light breeze SW Minimum ppi (lbs/inch) 91 91 91 91 91 120 12	Tech: AH Comments Broke outside weld, no peel SAA SAA SAA Comments Necked outside weld SAA SAA SAA SAA Foken cloud Tech: GH Comments Broke outside weld, no peel SAA SAA SAA Comments Comments Comments
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Test # Date Test # Date Test # Date Test #	Aug. 13, 2021 1 2 3 4 Aug. 13, 2021 1 2 3 4 Wedge welde Aug. 14, 2021 1 2 3 4 Aug. 14, 2021	Peel strength Inside weld 127 124 127 123 Shear Strength 151 145 150 149 er #2 daily qualifice Peel strength Inside weld 129 127 124 126 Shear Strength	Outside weld 124 124 129 126 Dition Outside weld 124 127 129	light breeze SW Minimum ppi (lbs/inch) 91 91 91 91 120 120 120 120 Minimum ppi (lbs/inch) 120 120 120 120 120 120 Minimum ppi (lbs/inch) 91 91 91 91 Minimum ppi (lbs/inch) 91 120 120	Tech: AH Comments Broke outside weld, no peel SAA SAA SAA Comments Necked outside weld SAA SAA SAA broken cloud Tech: GH Comments Broke outside weld, no peel SAA SAA Comments Broke outside weld, no peel SAA SAA Comments Broke outside weld, no peel SAA SAA Comments Necked outside weld
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Test # Date Test # Date Test # Date Test # Date Test #	Aug. 13, 2021 2 3 4 Aug. 13, 2021 1 2 3 4 Wedge welde Aug. 14, 2021 1 2 3 4 Aug. 14, 2021	Peel strength Inside weld 127 124 127 123 Shear Strength 151 145 150 149 129 127 128 Inside weld 129 127 124 126 Shear Strength 156 148 151 148 148 148 148 148 149 121 145 151 151 145 151 145 151 145 151 145 151 145 145	Outside weld 124 124 129 126 Distion Outside weld 124 127 129 127 Outside weld 128 129	light breeze SW Minimum ppi (lbs/inch) 91 91 91 91 120 120 120 120 Ambient temp: '+12C light breeze NW Minimum ppi (lbs/inch) 91 91 Minimum ppi (lbs/inch) 120 Ambient temp: '+12C light breeze NW Minimum ppi (lbs/inch) 91 91 Minimum ppi (lbs/inch) 120 120 120 Ambient temp: '+13C breezy NW Minimum ppi (lbs/inch) 91 91 91 91 91 91	Tech: AH Comments Broke outside weld, no peel SAA SAA SAA Comments Necked outside weld SAA SAA broken cloud Tech: GH Comments Broke outside weld, no peel SAA SAA Comments Broke outside weld, no peel SAA SAA SAA Comments Broke outside weld SAA SAA Comments Necked outside weld SAA SAA SAA SAA SAA SAA SAA S
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Date Test # Date Test #	Aug. 13, 2021 1 2 3 4 Aug. 13, 2021 1 2 3 4 Wedge welde Aug. 14, 2021 1 2 3 4 Aug. 14, 2021 1 2 3 4 Aug. 14, 2021 1 2 3 4 Aug. 15, 2021 2 3 4 Wedge welde Aug. 15, 2021 2 3 4 4 4 4 4 4	Peel strength Inside weld 127 124 127 123 Shear Strength 151 145 150 149 149 127 128 150 149 129 127 124 126 156 145 156 145 157 127 124 126 156 145 157 148 158 148 159 148 159 148 151 151 151 152 148 153 151 152 153 154 155 155 145 155 145 155 145 155 145 155 145 155 145 151 151	Outside weld 124 124 129 126 Stion Outside weld 124 127 129 127 Outside weld 128 129 129 129	light breeze SW Minimum ppi (lbs/inch) 91 91 91 91 120 120 120 120 Ambient temp: '+12C light breeze NW Minimum ppi (lbs/inch) 191 91 101 102 Minimum ppi (lbs/inch) 103 Minimum ppi (lbs/inch) 104 105 105 107 108 Minimum ppi (lbs/inch) 109 1100 1100 1100 1100 1100 1100 1100	Tech: AH Comments Broke outside weld, no peel SAA SAA Necked outside weld SAA SAA SAA SAA broken cloud Tech: GH Comments Broke outside weld, no peel SAA SAA SAA Comments Broke outside weld, no peel SAA SAA Comments Broke outside weld SAA SAA Comments Necked outside weld SAA SAA SAA SAA SAA SAA SAA S
Test # Date Test # Date Test # Date Test # Date Test #	Aug. 13, 2021 1 2 3 4 Aug. 13, 2021 1 2 3 4 Wedge welde Aug. 14, 2021 1 2 3 4 Aug. 14, 2021 1 2 3 4 Aug. 14, 2021 1 2 3 4 Aug. 15, 2021 2 3 4 Wedge welde Aug. 15, 2021 2 3 4 4 4 4 4 4	Peel strength 127 124 127 123 Shear Strength 151 145 150 149 or #2 daily qualifice Peel strength 152 126 Shear Strength 159 127 128 Shear Strength 159 129 127 124 126 Shear Strength 156 148 148 178 181 181 181 181 182 182 183 183 184 184 185 185 185 185 185 185 185 185 185 185	Outside weld 124 124 129 126 Stion Outside weld 124 127 129 127 Outside weld 128 129 129 129	light breeze SW Minimum ppi (lbs/inch) 91 91 91 91 120 120 120 120 Ambient temp: '+12C light breeze NW Minimum ppi (lbs/inch) 91 91 Minimum ppi (lbs/inch) 120 Ambient temp: '+12C light breeze NW Minimum ppi (lbs/inch) 91 91 Minimum ppi (lbs/inch) 120 120 120 120 Ambient temp: '+13C breezy NW Minimum ppi (lbs/inch) 91 91 91 91 91 Minimum ppi (lbs/inch)	Tech: AH Comments Broke outside weld, no peel SAA SAA Comments Necked outside weld SAA SAA broken cloud Tech: GH Comments Broke outside weld, no peel SAA SAA SAA Comments Broke outside weld, no peel SAA SAA SAA Comments Broke outside weld SAA SAA Comments Necked outside weld SAA SAA SAA SAA SAA SAA SAA S
Date Test # Date Test #	Aug. 13, 2021 1 2 3 4 Aug. 13, 2021 1 2 3 4 Wedge welde Aug. 14, 2021 1 2 3 4 Aug. 14, 2021 1 2 3 4 Aug. 14, 2021 1 2 3 4 Aug. 15, 2021 2 3 4 Wedge welde Aug. 15, 2021 2 3 4 4 4 4 4 4	Peel strength 127 124 127 128 Shear Strength 151 145 150 149 182 182 182 184 185 186 186 186 187 187 188 188 188 188 188 188 188 188	Outside weld 124 124 129 126 Stion Outside weld 124 127 129 127 Outside weld 128 129 129 129	light breeze SW Minimum ppi (lbs/inch) 91 91 91 91 91 120 12	Tech: AH Comments Broke outside weld, no peel SAA SAA SAA SAA Comments Necked outside weld SAA SAA Froken cloud Tech: GH Comments Broke outside weld, no peel SAA SAA SAA SAA SAA Comments Broke outside weld Comments SAA SAA SAA SAA Comments SAA SAA SAA SAA Comments Broke outside weld, no peel SAA SAA SAA SAA SAA SAA SAA

A&A Technical Services Yellowknife NT



ly 30-August 18, bina Gold and Si LA site - Fuel Tan							EL S
	Wedeensld			Velder Qualification Dat			TUCHNICAL HAVIO
	weage weig	er #2 daily qualifica Peel strength	ition	Ambient temp: '+13C light breeze	broken cloud Tech: AH		1100,0100,010,010
Date	Aug. 16, 2021	Inside weld	Outside weld	Minimum ppi (lbs/inch)	Tech: AH	0	
Test #	1	126	122	91	Broke outside	Comments	
1030#	2	126	124	91	SAA	weia, no peel	
	3	126	129	91	1 0000000		
	4	129		1.7	SAA		
Date			125	91	SAA		
	Aug. 16, 2021	Shear Strength		Minimum ppi (lbs/inch)		Comments	
Test #	1	152		120	Necked outside	e weld	
	2	155		120	SAA		
	3	148		120	SAA		
	4	150		120	SAA		
	Wedge weld	er #2 daily qualifica	ition	Ambient temp: '+14C	broken cloud		
		Peel strength		wind SW	Tech: AH		
Date	Aug. 17, 2021	Inside weld	Outside weld	Minimum ppi (lbs/inch)		Comments	
Test #	1	122	122	91	Broke outside	weld, no peel	
	2	119	117	91	SAA		
	3	125	119	91	SAA		
	4	118	121	91	SAA		
Date	Aug. 17, 2021	Shear Strength		Minimum ppi (lbs/inch)		Comments	
Test #	1	148		120	Necked outside	e weld	
	2	155		120	SAA		
	3	149		120	SAA		
	4	144		120	SAA		

Daily Extrusion	Wolder Qualitication Data	_

	Extrusion welder		Extrudite temp 250C Ambient temp	: +6C Tech: AH
Date	Aug. 5, 2021	Peel strength	[Minimum ppi (lbs/inch)	Comments
Test #	1	121	78	Broke outside weld, no peel
	2	123	78	SAA
	3	121	78	SAA
	4	126	78	SAA
Date	Aug. 5, 2021	Shear Strength	Minimum ppi (lbs/inch)	Comments
Test#	1	152	120	Necked outside weld
	2	155	120	SAA
	3	148	120	SAA
	4	148	120	SAA
			Extrudite temp 250C Ambient temp.	
Date	Aug. 6, 2021	Peel strength	[Minimum ppi (lbs/inch)	Comments
Test #	Aug. 0, 2021	120	78	Broke outside weld, no peel
1621 #	2	123	78	SAA
	3	123		
	3 4	123	78	SAA
Data			78	SAA
Date	Aug. 6, 2021	Shear Strength	Minimum ppi (lbs/inch)	Comments
Test #	1	149	120	Necked outside weld
	2	152	120	SAA
	3	155	120	SAA
	4	151	120	SAA
			Extrudite temp 250C Ambient temp.	
Date	Aug. 7, 2021	Peel strength	Minimum ppi (lbs/inch)	Comments
Test #	1	128	78	Broke outside weld, no peel
	2	122	78	SAA
	3	119	78	SAA
	4	123	78	SAA
Date	Aug. 7, 2021	Shear Strength	Minimum ppi (lbs/inch)	Comments
Test #	1	145	120	Necked outside weld
	2	150	120	SAA
	3	151	120	SAA
	4	149	120	SAA
	Extrusion welder # 1	Hot Air temp: 250 C Extru	dite temp 250C Ambient temp: +6C	Tech: AH
Date	Aug. 8, 2021	Peel strength	Minimum ppi (lbs/inch)	Comments
Test #	1	124	78	Broke outside weld, no peel
	2	118	78	SAA
	3	115	78	SAA
	4	120	78	SAA
Date	Aug. 8, 2021	Shear Strength	Minimum ppi (lbs/inch)	Comments
Test #	1	151	120	Necked outside weld
	2	148	120	SAA
	3	142	120	SAA
	4	149	120	SAA
	Extrusion welder # :	Hot Air temp: 250 C Extr	udite temp 250C Ambient temp. +7C	Tech: AH
Date	Aug. 10, 2021	Peel strength	Minimum ppi (lbs/inch)	Comments
Test #	1	122	78	Broke outside weld, no peel
	2	118	78	SAA
	3	120	78	SAA
	4	117	78	SAA

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Yellowknife NT
July 30-August 18, 2021
Sabina Gold and Silver
MLA site - Fuel Tank Farm HDPE liner installation phase II
Daily Extrusion Welder Qualification Data





Date	Aug. 10, 2021	Shear Strength	Minimum ppi (lbs/inch)	Comments
Test #	1	123	120	Necked outside weld
	2	119	120	SAA
	3	126	120	SAA
	4	122	120	SAA
	Extrusion welder #	1 Hot Air temp: 240 C Extru	dite temp 250C Ambient temp. : +14C	Tech: AH
Date	Aug. 13, 2021	Peel strength	Minimum ppi (lbs/inch)	Comments
Test #	1	128	78	Broke outside weld, no peel
	2	122	78	SAA
	3	119	78	SAA
	4	123	78	SAA
Date	Aug. 13, 2021	Shear Strength	Minimum ppi (lbs/inch)	Comments
Test #	1	145	120	Necked outside weld
	2	150	120	SAA
	3	151	120	SAA
	4	149	120	SAA
		#1 Hot Air temp: 250 C	xtrudite temp 250C Ambient temp	o: +13C Tech: AH
Date	Aug. 16, 2021	Peel strength	Minimum ppi (lbs/inch)	Comments
Test #	1	118	78	Broke outside weld, no peel
	2	115	78	SAA
	3	121	78	SAA
	4	119	78	SAA
Date	Aug. 16, 2021	Shear Strength	Minimum ppi (lbs/inch)	Comments
Test #	1	148	120	Necked outside weld
	2	151	120	SAA
	3	147	120	SAA
	4	149	120	SAA
			xtrudite temp 250C Ambient temp.	+14C Tech: AH
Date	Aug. 17, 2021	Peel strength	Minimum ppi (lbs/inch)	Comments
Test #	1	121	78	Broke outside weld, no peel
	2	125	78	SAA
	3	117	78	SAA
	4	120	78	SAA
Date	Aug. 17, 2021	Shear Strength	Minimum ppi (lbs/inch)	Comments
Test #	1	148	120	Necked outside weld
	2	155	120	SAA
	3	155	120	SAA
	4	144	120	SAA

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A&A Technical Services Yellowknife NT July 30-August 18, 2021 Sabina Gold and SilverMLA site - Fuel Tank Farm HDPE liner installation phase II Dual wedge seam air pressure tests and extrusion weld patch vac box tests

After 5 minutes



				After 5 minute	S	TECHNICAL SERVICES
Date	Technician	Seam location	Start psi	Finish psi	Pass/Fail	Comments
Aug 5, 2021,	GH	P-1 and E tank pad	30	30	Pass	
Aug 5, 2021,	GH	P-2 and P-3	30	30	Pass	
Aug 5, 2021,	GH	P-3 and P-4	32	32	Pass	
Aug 5, 2021,	GH	P-4 and P-5	35	35	Pass	
Aug 5, 2021,	GH	P-5 and P-6	36	35	Pass	
Aug 5, 2021,	GH	P-6 and P-7	35	35	Pass	
Aug 5, 2021,	GH	P-7 and N tank pad a	30	30	Pass	
Aug 5, 2021,	GH	b b	30	30	Pass	
Aug 5, 2021,	GH	P-6 and N tank pad a	35	35	Pass	
Aug 5, 2021,	GH	b	30	35	Pass	
Aug 5, 2021,	GH	P-5 and N tank pad a	30	30	Pass	
Aug 5, 2021,	GH	b b	32	32	Pass	
Aug 5, 2021,	GH	P-4 and N tank pad a	30	30	Pass	
Aug 5, 2021,	GH	b	30	30		
Aug 5, 2021,	GH			40,000	Pass	
	2000	P-3 and N tank pad	30	30	Pass	
Aug 5, 2021,	GH	P-2 and P-1	30	30	Pass	
Aug 5, 2021,	AH	Vac test patch A			Pass	
9-Aug-21	AH	P-8 and P-9	31	30	Pass	
9-Aug-21	AH	P-8 and S tank pad a	30	30	Pass	
9-Aug-21	ÀН	b	35	35	Pass	
9-Aug-21	AH	С	35	35	Pass	
9-Aug-21	AH	d	38	38	Pass	
9-Aug-21	AH	P-9 and P-10	40	40	Pass	
9-Aug-21	AH	P-9 and S tank pad a	35	35	Pass	
9-Aug-21	AH	b	35	35	Pass	
9-Aug-21	AH	С	35	35	Pass	
9-Aug-21	AH	d	30	30	Pass	
9-Aug-21	AH	P-10 and P-11	30	30	Pass	
9-Aug-21	AH	P-10 and S tank pad a	34	34	Pass	
9-Aug-21	AH	ь	35	35	Pass	
9-Aug-21	AH	c	38	38	Pass	
9-Aug-21	AH	d	30	30	Pass	
9-Aug-21	AH	P-11 and P-1	40	40	Pass	
9-Aug-21	AH	P-15 and P-16	62			
	AH	P-15 and P-16	35	62	Pass	
9-Aug-21	0.0000			35	Pass	
9-Aug-21	AH	P-16 and P-17	35	35	Pass	
9-Aug-21	AH	P-17 toe	45	45	Pass	
9-Aug-21	AH	P-17 and P-18	30	30	Pass	
9-Aug-21	AH	P-18 toe	30	30	Pass	
9-Aug-21	АН	P-18 and P-19	35	35	Pass	
9-Aug-21	AH	P-19 toe	33	33	Pass	
9-Aug-21	AH	P-19 and P-20	32	32	Pass	
9-Aug-21	AH	P-20 toe	45	45	Pass	
9-Aug-21	AH	P-20 and P-21	54	54	Pass	
9-Aug-21	AH	P-21 toe P-21	34	34	Pass	
11-Aug-21	AH	P-22 toe	32	32	Pass	
11-Aug-21	AH	P-22 and P-23	35	35	Pass	
11-Aug-21	AH	P-23 and P-25	30	29	Pass	
11-Aug-21	AH	P-23 and P-24	30	30	Pass	
11-Aug-21	AH	P-24 and P-25	40	40	Pass	
11-Aug-21	AH	P-25 and P-26	39	39	Pass	
11-Aug-21	AH	P-26 and P-27	30	30	Pass	
11-Aug-21	AH	P-26 toe	30	30	Pass	
11-Aug-21	AH	P-27-P-28	44	44	Pass	
11-Aug-21	AH	P-28 and P-29	60	60	Pass	
11-Aug-21	AH	P-28 toe	34	34	Pass	
	AH	P-29 and P-30	54	54	Pass	
11-Aug-21	AH					
11-Aug-21 11-Aug-21	AH	P-29 and P-30	35	35	Pass	

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A&A Technical Services
Yellowknife NT
July 30-August 18, 2021
Sabina Gold and SilverMLA site - Fuel Tank Farm HDPE liner installation phase II
Dual wedge seam air pressure tests and extrusion weld patch vac box tests



after 5 minutes

				after 5 minutes	i i	Both and the state of the state
Date	Technician	Seam location	Start psi	Finish psi	Pass/Fail	Comments
11-Aug-21	AH	P-30 toe	32	32	Pass	
11-Aug-21	AH	P-31 and P-32	44	44	Pass	
11-Aug-21	AH	P-31 toe	34	34	Pass	
11-Aug-21	AH	P-32 and P-33	32	32	Pass	
11-Aug-21	AH	P-32 toe	34	33	Pass	
11-Aug-21	AH	P-33 and P-34	34	34	Pass	
11-Aug-21	AH	P-33 toe	35	35	Pass	
11-Aug-21	AH	P-34 and P-35	43	43	Pass	
11-Aug-21	AH	P-34 toe	32	32	Pass	
11-Aug-21	AH	P-35 toe	34	34	Pass	
11-Aug-21	AH	P-12 and P13	32	32	Pass	
11-Aug-21	GH	Vac Box patch B.C,D	32	32	Pass	
11-Aug-21	GH	P-13 and P-14	30	30	Pass	
12-Aug-21	GH	P-36 and P-37	30	30	Pass	
12-Aug-21	GH	P-37 and P-38	30	30	Pass	
12-Aug-21	GH	P-38 and P-39	30	30		
12-Aug-21	GH	P-39 and P-40	30	30	Pass	
					Pass	
12-Aug-21	GH	P-40 and P-41	30	30	Pass	
12-Aug-21	GH	P-41 and P-42	30	30	Pass	
12-Aug-21	GH	toe P-42	30	30	Pass	
12-Aug-21	GH	toe P-41	30	30	Pass	
12-Aug-21	GH	toe P-40	30	30	Pass	
12-Aug-21	GH	toe-P-39	30	30	Pass	
12-Aug-21	GH	toe P-38	30	30	Pass	
12-Aug-21	AH	toe P-37	30	30	Pass	
12-Aug-21	AH	toe P-36	30	30	Pass	
13-Aug-21	AH	P-44 andP- 45	32	32	Pass	
13-Aug-21	AH	P-43 and P-44	32	32	Pass	
13-Aug-21	AH	P-45 and P-46	32	32	Pass	
13-Aug-21	AH	P-46 and P-47	44	43	Pass	
14-Aug-21	AH	P-48 and P-49	44	44	Pass	
14-Aug-21	AH	P-49 and P-50	48	48	Pass	
14-Aug-21	GH	Vac test patch E			Pass	
14-Aug-21	AH	P-50 and P-51	33	32	Pass	
14-Aug-21	AH	P-51 an P-54	35	35	Pass	
14-Aug-21	AH	P-54 and P-55	38	38	Pass	
14-Aug-21	AH	P-48 and P-7	34	34	Pass	
14-Aug-21	AH	P-49 and P-7	32	32	Pass	
14-Aug-21	AH	P-50 and P-7	33	32	Pass	
14-Aug-21	AH	P-51 and P-7	34	34	Pass	
14-Aug-21	AH	P-54 and P-52	44	44	Pass	
14-Aug-21	AH	P-55 and P-53	39	39	Pass	
14-Aug-21 14-Aug-21	AH	P-53 and P-53	33	33	Pass	
14-Aug-21 14-Aug-21	AH	P-52 and P-53	30	30	Pass	
		P-52 and P=7 P-52 and P-6	30	30		
14-Aug-21	AH	1 3000000000000000000000000000000000000	31		Pass	
14-Aug-21	AH	P-52 and P-53		32	Pass	
14-Aug-21	AH	P-52 and P-4	54	54	Pass	
14-Aug-21	AH	P-52 and P-3	33	33	Pass	
14-Aug-21	АН	P-53 and P-56	30	30	Pass	
14-Aug-21	AH	P-56 and P-57	34	34	Pass	
14-Aug-21	AH	P-53 and P-57	33	33	Pass	
14-Aug-21	AH	P-53 and P-58	45	45	Pass	
14-Aug-21	AH	P-58 and P-59	60	60	Pass	
15-Aug-21	AH	P-60 and P-42	44	44	Pass	
15-Aug-21	AH	P-60 toe	45	45	Pass	
15-Aug-21	AH	P-60 and p-61	36	36	Pass	
15-Aug-21	AH	P-61 toe	33	33	Pass	
15-Aug-21	AH	P-61 and P-62	32	32	Pass	
15-Aug-21	AH	P-62 toe	32	32	Pass	page 11

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Dual wedge seam air pressure tests and extrusion weld patch vac box tests



15-Aug-21 AH P-62 and P-63 32 32 Pass 15-Aug-21 AH P-63 toe 30 30 Pass 15-Aug-21 AH P-63 and P-64 30 30 Pass 15-Aug-21 AH P-64 toe 54 54 Pass 15-Aug-21 AH P-64 and P-65 44 44 Pass 15-Aug-21 AH P-65 toe 65 65 Pass 15-Aug-21 AH P-66 and P-67 32 32 Pass 15-Aug-21 AH P-68 and P-69 31 31 Pass 15-Aug-21 AH P-68 and P-69 31 31 Pass 15-Aug-21 AH P-66 toe 34 34 Pass 15-Aug-21 AH P-67 toe 35 35 Pass 15-Aug-21 AH P-69 and P-70 35 35 Pass 15-Aug-21 AH P-69 and P-70 34 34 Pass 15-Aug-21 AH P-69 and P-70 34 34 Pass 15-Aug-21 AH P-70 toe 33 33 Pass 16-Aug-21 AH P-71 and P-52 32 32 Pass 16-Aug-21 AH P-72 and P-73 34 Pass 16-Aug-21 AH P-73 and P-53 33 Pass 16-Aug-21 AH P-73 and P-52 32 32 Pass 16-Aug-21 AH P-71 and P-52 32 32 Pass 16-Aug-21 AH P-71 and P-52 32 32 Pass 16-Aug-21 AH P-71 and P-52 32 32 Pass 16-Aug-21 AH P-73 and P-56 33 33 Pass 16-Aug-21 AH P-71 and P-14 41 41 Pass 16-Aug-21 AH P-71 and P-14 41 41 Pass 16-Aug-21 AH P-71 and P-2 32 32 Pass 16-Aug-21 AH P-71 and P-14 P-71 and P-2 32 32 Pass 16-Aug-21 AH P-71 and P-14 P-71 and P-71 and P-71	Date	Technician	Seam location	Start psi	Finish psi	Pass/Fail	Comments
15-Aug-21 AH P-63 and P-64 30 30 30 Pass 15-Aug-21 AH P-64 and P-65	15-Aug-21	AH	P-62 and P-63	32			
15-Aug-21 AH P-63 and P-64 30 30 30 Pass 15-Aug-21 AH P-64 and P-65	15-Aug-21	AH	P-63 toe	30	30		
15-Aug-21		AH	P-63 and P-64	30			
15-Aug-21 AH P-64 and P-65 65 65 P-35S 15-Aug-21 AH P-65 and P-67 32 32 32 P-35S 15-Aug-21 AH P-66 and P-67 32 32 32 P-35S 15-Aug-21 AH P-68 and P-69 31 31 31 P-35S 15-Aug-21 AH P-68 and P-69 31 31 31 P-35S 15-Aug-21 AH P-68 and P-69 31 31 31 P-35S 15-Aug-21 AH P-68 and P-69 34 34 P-35S 15-Aug-21 AH P-67 tote 35 35 P-35S 15-Aug-21 AH P-68 tote 35 35 P-35S 15-Aug-21 AH P-69 tote 36 36 P-35S 15-Aug-21 AH P-69 tote 36 36 P-35S 15-Aug-21 AH P-69 tote 36 36 P-35S 15-Aug-21 AH P-79 tote 36 36 P-35S 15-Aug-21 AH P-79 tote 36 36 P-35S 15-Aug-21 AH P-79 tote 36 36 P-35S 16-Aug-21 AH P-71 and P-70 34 34 P-35S 16-Aug-21 AH P-71 and P-52 32 32 32 P-35S 16-Aug-21 AH P-72 and P-53 33 33 P-35S 16-Aug-21 AH P-72 and P-56 33 33 P-35S 16-Aug-21 AH P-73 and P-56 33 33 P-35S 16-Aug-21 AH P-73 and P-56 33 33 P-35S 16-Aug-21 AH P-74 and P-56 33 33 P-35S 16-Aug-21 AH P-73 and P-65 33 33 P-35S 16-Aug-21 AH P-74 and P-75 30 P-75		AH		1,24,144			
15-Aug-21 AH P-65 toe 65 65 Pass 15-Aug-21 AH P-66 and P-67 32 32 Pass 15-Aug-21 AH P-67 and P-68 32 32 Pass 15-Aug-21 AH P-68 and P-69 31 31 Pass 15-Aug-21 AH P-68 and P-69 31 31 Pass 15-Aug-21 AH P-68 and P-69 31 31 Pass 15-Aug-21 AH P-68 toe 34 34 Pass 15-Aug-21 AH P-67 toe 35 35 Pass 15-Aug-21 AH P-68 toe 35 35 Pass 15-Aug-21 AH P-69 toe 36 36 Pass 15-Aug-21 AH P-69 toe 36 36 Pass 15-Aug-21 AH P-69 and P-70 34 34 Pass 15-Aug-21 AH P-70 toe 35 36 Pass 15-Aug-21 AH P-70 toe 36 36 Pass 15-Aug-21 AH P-70 toe 33 33 Pass 15-Aug-21 AH P-71 and P-73 34 34 Pass 16-Aug-21 AH P-72 and P-73 34 34 Pass 16-Aug-21 AH P-72 and P-52 32 32 Pass 16-Aug-21 AH P-72 and P-56 33 33 Pass 16-Aug-21 AH P-73 and P-66 33 33 Pass 16-Aug-21 AH P-73 and P-66 33 33 Pass 16-Aug-21 AH P-73 and P-66 33 33 Pass 16-Aug-21 AH P-73 and P-76 AB PASS 16-Aug-21 AH P-73 and P-76 AB PASS 16-Aug-21 AH P-73 and P-76 AB PASS 16-Aug-21 AH P-74 and P-75 30 AB PASS 16-Aug-21 AH P-75 and P-76 AB PASS 16-Aug-21 AH P-75 and P-76 AB PASS 16-Aug-21 AH P-75 AB PASS 16-Aug-21 AH P-76 AB PASS 16-Aug-21 AH P-77 AB PASS 16-Aug-21 AH P-78 AB PASS 16-Aug-21 AH P-78 AB PASS 16-Aug-21 AB PASS							
15-Aug-21 AH P-65 and P-67 32 32 Pass 15-Aug-21 AH P-67 and P-68 32 32 Pass 15-Aug-21 AH P-68 and P-69 31 31 31 Pass 15-Aug-21 AH P-66 toe 34 34 Pass 15-Aug-21 AH P-66 toe 35 35 35 Pass 15-Aug-21 AH P-68 toe 35 35 35 Pass 15-Aug-21 AH P-69 toe 36 36 36 Pass 15-Aug-21 AH P-69 and P-70 34 34 Pass 15-Aug-21 AH P-79 toe 36 36 36 Pass 15-Aug-21 AH P-79 toe 36 36 36 Pass 15-Aug-21 AH P-79 toe 36 36 36 Pass 15-Aug-21 AH P-70 toe 33 34 34 Pass 15-Aug-21 AH P-71 P-72 34 34 34 Pass 16-Aug-21 AH P-71 and P-73 34 Pass 16-Aug-21 AH P-72 and P-73 34 Pass 16-Aug-21 AH P-73 and P-56 33 33 Pass 16-Aug-21 AH P-73 and P-56 33 33 Pass 16-Aug-21 AH P-73 and P-14 41 41 Pass 16-Aug-21 AH P-71 and P-14 41 41 Pass 16-Aug-21 AH P-71 and P-14 41 41 Pass 16-Aug-21 AH P-71 and P-14 AH P-71 and P-14 AH P-71 and P-14 AH P-71 and P-14 AH P-71 and P-73 AB Pass 16-Aug-21 AH P-71 and P-73 32 Pass 16-Aug-21 AH P-71 and P-73 32 Pass 16-Aug-21 AH P-73 and P-76 37 Pass 16-Aug-21 AH P-74 and P-75 AB Pass 16-Aug-21 AH P-74 and P-76 AB Pass 18-Aug-21 AB P-74 and P-75 AB Pass 18-Aug-21 AB P-78 and P-79 AB Pass 18-Aug-21 AB P-7						18.24.55	
15-Aug-21			20.000				
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A&A Technical Services Subgrade acceptance and warranty

Sabina Gold and Silver – MLA Fuel tank farm HDPE liner installation – Phase II July 30 – August 18, 2021

Materials used for the construction of the tank farm floor and berms was a sandy pit run material with sub rounded to sub angular gravel sizes. The material was well compacted with a smooth drum roller. All floor areas, berms and key trenches were inspected and deemed acceptable prior to placing the two layers of 540g/m2 non-woven geotextile protection, followed by the Solmax 60mil smooth liner and a single layer of 540g/m2 non-woven geotextiles above the liner. All geotextile seams were heat bonded using a propane torch and aluminum roller for preventing wind uplift. HDPE seams were fused using a dual split wedge weld and air channel pressure tested. Extrusion weld patches were vac box tested. All wedge and extrusion welders were qualified daily prior to any liner placement.

Warranties issued by A&A Technical Services shall cover only the cost of replacement and/or repair of defective installations, determined or agreed to be the responsibility of A&A Technical Services, provide that the warranty work will be performed to the same standards and scope of work set out in the contract documents. A&A's installation warranty shall commence upon acceptance of the individual geosynthetic components by the owner or its representative as such components are completed. The installation warranty period shall not exceed beyond 1 years. Our installation warranty is rendered null and void if the installed geosynthetics are subject to abuse by machinery, equipment or personnel not under the control of A&A, harmful chemicals or unusual weather conditions or catastrophic earthworks failures. A&A Technical Services shall not be held liable for defects, damage and/or deficient materials and installations, either in whole or in part should the defects, damage or deficient materials and installations arise as the result from the use of poor quality and inappropriate or unsuitable earthworks material or site preparation. This limitation of liability extends to improper and/or construction techniques, and methods and equipment used to create the earthworks covering all or any portion of the completed geosynthetic installation.

Signed:

Dated: August 28, 2021

Al Harman President A&A Technical Services Yellowknife NT

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Date: 2021-12-17

Owner: Owner: Sabina Gold & Silver Corp.

Name: MLA Bulk storage Area Construction Report

Doc No: SBR7SBB-73-C-RPT-0001



Appendix B - Construction pictures (Tank Pad)





Appendix B - Construction pictures (Tank Construction)





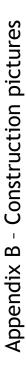










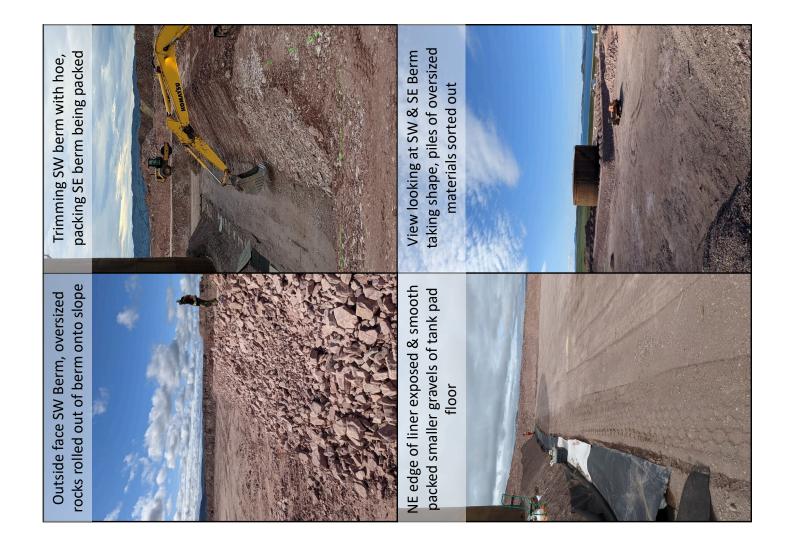








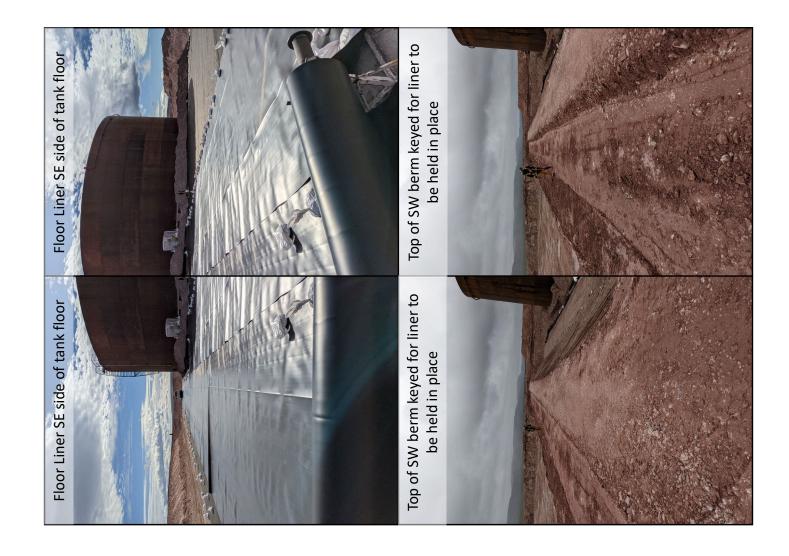






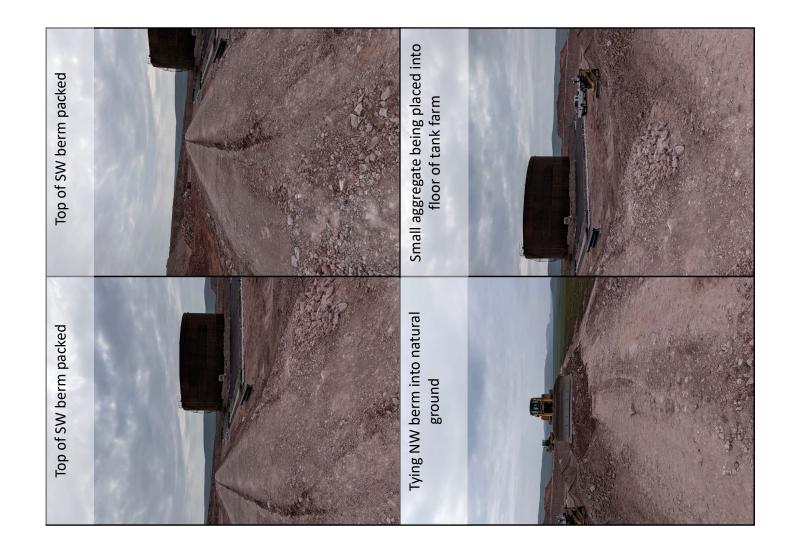














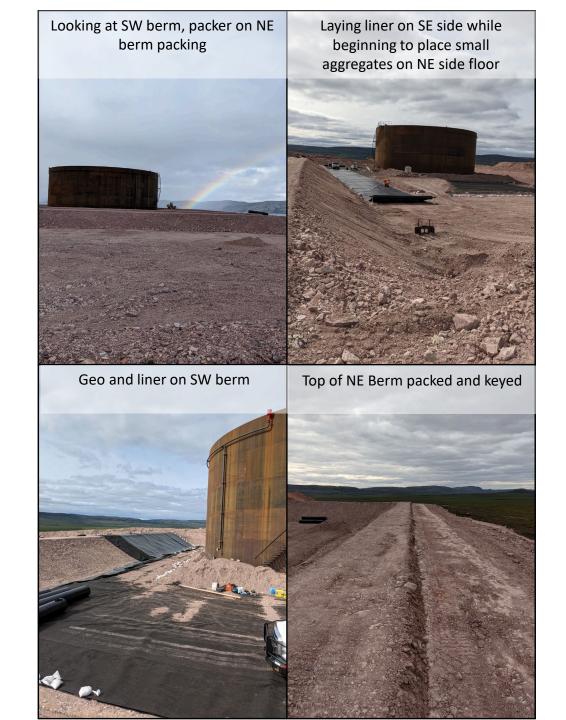






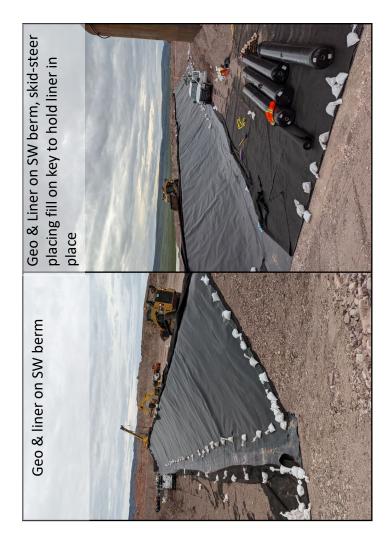
















Sabina Gold & Silver Corp. Back River - Marine Laydo

Back River - Marine Laydown Area Quarry Tank Farm (Phase 1)

Drawing Number	Drawing Title	Issue	Date	Revision
MLA-QTF-100	Fuel Tank Farm - General Arrangement	As-Constructed	2021/12/17	AC-1
MLA-QTF-101	Plan Layout - Final Arrangement	As-Constructed	2021/12/17	AC-1
MLA-QTF-102	Phase 1 Foundation Preparation Plan - Base Pad	Issued for Construction	7/22/2021	1
MLA-QTF-103	Phase 1 Containment Berm Plan	Issued for Construction	7/22/2021	1
MLA-QTF-104	Phase 1 Liner Subgrade Plan	As-Constructed	2021/12/17	AC-1
MLA-QTF-105	Phase 1 Final Layout	As-Constructed	2021/12/17	AC-1
MLA-QTF-300	Cross Sections	As-Constructed	2021/12/17	AC-1
MLA-QTF-301	Cross Sections	As-Constructed	2021/12/17	AC-1
MLA-QTF-400	Phase 1 Details	Issued for Construction	7/22/2021	1

NOTES

Context for "As Constructed" Drawing Set:

SRK was on site in 2019 and inspected the foundation below the first constructed MLA tank only.

SRK was not on site for any of the other tank farm construction and earthworks at the MLA in 2020 and 2021. SRK was all not involved in any of the on site quality control (QC) or quality assurance (QA) activities associated with this tank farm (beyond confirmation of bedrock below the first tank). It is SRK's understanding that all of the available as-built data was collected by Sub-Arctic survey under the guidance and supervision of Sabina Gold & Silver Corporation (Sabina). These 'as-constructed' drawings have been prepared based solely on the available information provided from Sabina to SRK.

The 'as-constructed' survey information shown in the drawing was provided to SRK via Sabina's SharePoint on 2021/11/10. None of this information has been visually verified in the field by SRK at this time. It is recommended that a professional geotechnical engineer licensed in Nunavut / Northwest Territories visit the MLA tank farm and complete a site inspection in the snow free months of 2022 (i.e. summer 2022) to confirm the layouts shown in these 'as-constructed' drawings, and to make any observations and comments beyond what is shown or presented in these drawings. Specifically, any comments on technical, operation or maintenance items that may not be apparent in the provided as-constructed information would be suggested to be focused on as part of this 2022 inspection.



