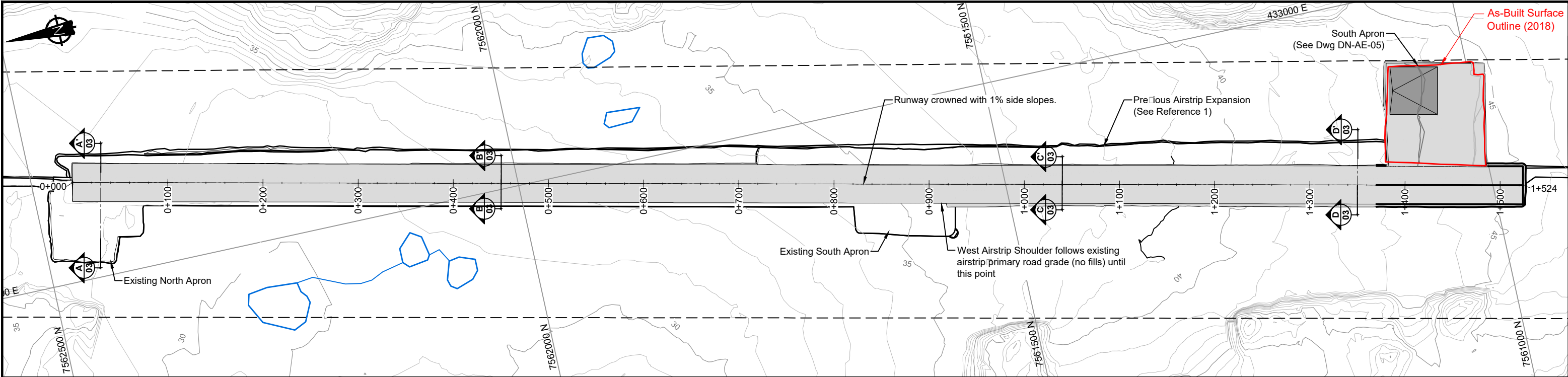
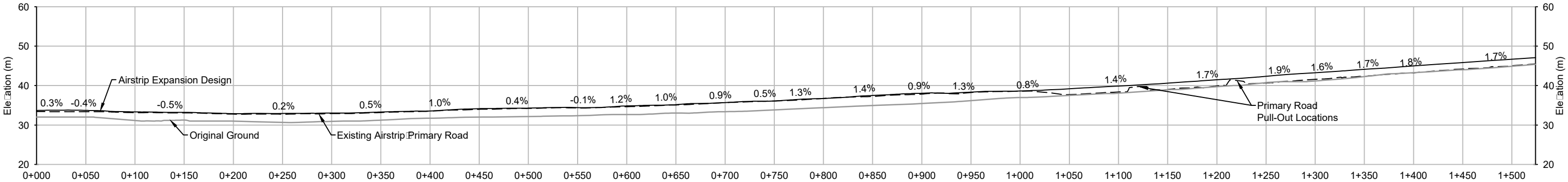
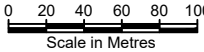
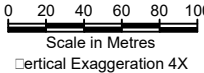




AIRSTRIP EXPANSION - PLAN



AIRSTRIP EXPANSION - CENTERLINE PROFILE



LEGEND

- Proposed Airstrip Expansion
- Chainage
- Existing Roads and Infrastructure
- Lakes, Ponds or Permanent Water Bodies
- Lease Boundary

REFERENCE

1. SRK Consulting (Canada) Inc., 2011. Engineering Drawings for the Doris North Airstrip Expansion & Bypass Road, Doris North Project, Nunavut, Canada. Revision D. Issued for Review Drawings Prepared for Hope Bay Mining Limited. Project Number 1CH008.033. July 26, 2011

AIRSTRIP EXPANSION STAKEOUT TABLE:

Chainage (m)	Northing (m)	Easting (m)	Elevation (m)
0+000	7,562,457.10	433,103.50	33.70
0+050	7,562,408.30	433,092.70	33.70
0+100	7,562,359.50	433,081.90	33.30
0+150	7,562,310.70	433,071.10	33.20
0+200	7,562,261.80	433,060.30	32.90
0+250	7,562,213.00	433,049.40	32.90
0+300	7,562,164.20	433,038.60	33.00
0+350	7,562,115.40	433,027.80	33.30
0+400	7,562,066.60	433,017.00	33.60
0+450	7,562,017.70	433,006.20	34.20
0+500	7,561,968.90	432,995.40	34.30
0+550	7,561,920.10	432,984.60	34.40
0+600	7,561,871.30	432,973.80	34.80
0+650	7,561,822.50	432,963.00	35.20
0+700	7,561,773.60	432,952.20	35.70
0+750	7,561,724.80	432,941.40	36.10

0+800	7,561,676.00	432,930.60	36.70
0+850	7,561,627.20	432,919.80	37.50
0+900	7,561,578.40	432,909.00	38.10
0+950	7,561,529.60	432,898.20	38.30
1+000	7,561,480.70	432,887.40	38.60
1+050	7,561,431.90	432,876.60	39.20
1+100	7,561,383.10	432,865.80	39.90
1+150	7,561,334.30	432,855.00	40.60
1+200	7,561,285.50	432,844.10	41.50
1+250	7,561,236.60	432,833.30	42.40
1+300	7,561,187.80	432,822.50	43.30
1+350	7,561,139.00	432,811.70	44.10
1+400	7,561,090.20	432,800.90	45.00
1+450	7,561,041.40	432,790.10	45.90
1+500	7,560,992.60	432,779.30	46.70
1+524	7,560,969.10	432,774.10	47.10

Z:\03 - SITE\Hope Bay\1CH022\005.300\Drawings\As-Built\02 - South Apron\1CH022.005.300_ND-AE-01-05_AB.dwg

				AB	AS-BUILT	CH	EMR	10Sep18
				5	SOUTH APRON UPDATES	MMM	EMR	7Oct16
				4	SOUTH APRON UPDATES	MMM	EMR	4Oct16
				3	SOUTH APRON ADDITION	KK	EMR	24Jun16
				2	RUNWAY EXTENDED	CH	EMR	10Feb16
				1	RUNWAY CROWNED	LW	EMR	22Oct15
				0	ISSUED FOR CONSTRUCTION	LW	EMR	19Oct15
				A	ISSUED FOR DISCUSSION	LW	EMR	17Oct15
DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE	NO.	DESCRIPTION	CHK'D	APP'D	DATE
REFERENCE DRAWINGS				REVISIONS				

PROFESSIONAL ENGINEERS STAMP

DESIGN: -
CHECKED: CH

DRAWN: V/J
APPROVED: EMR

REVIEWED: CH
DATE: Sep. 10, 2018

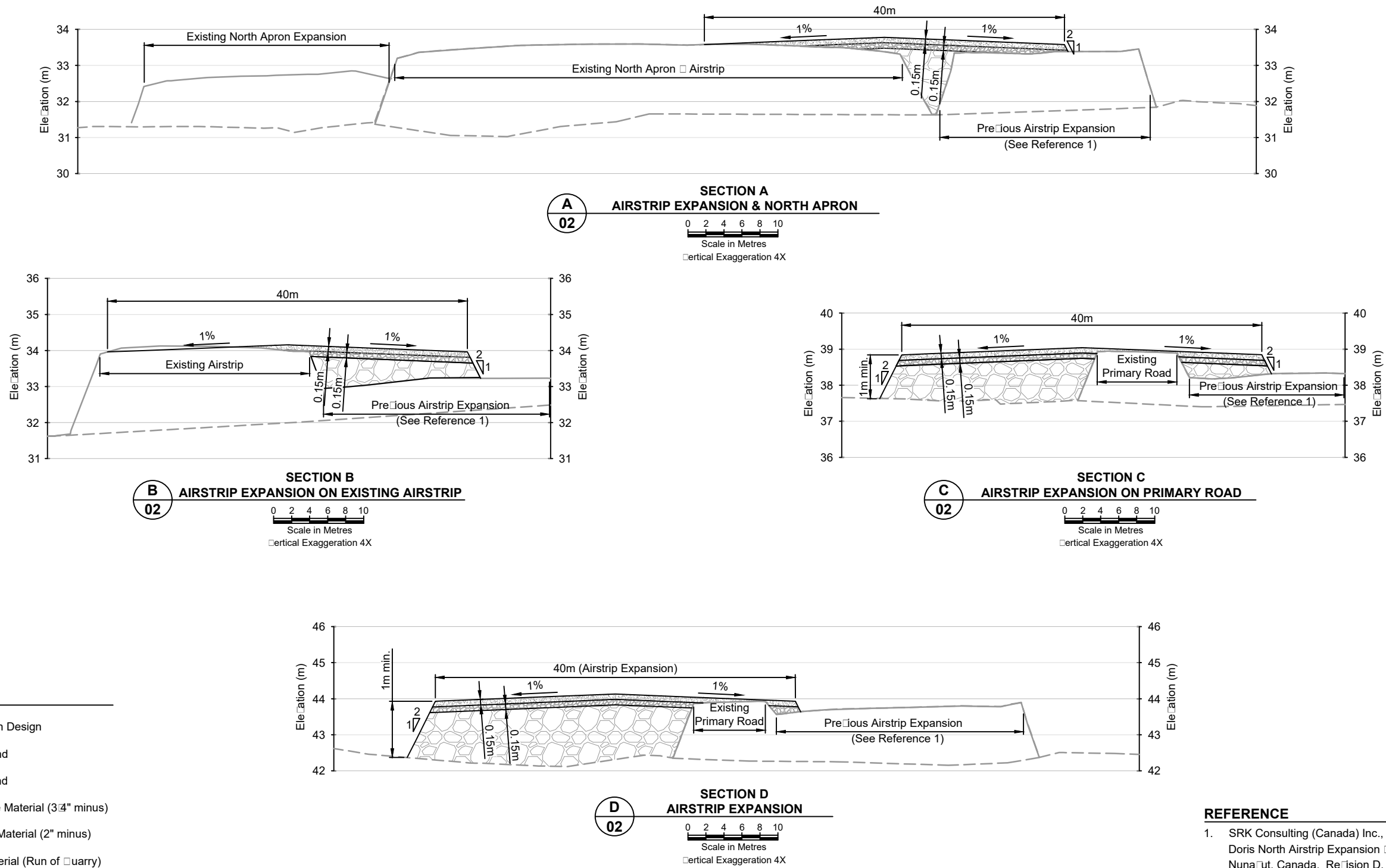
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DORIS NORTH PROJECT

SRK JOB NO.: 1CH022.005.300

Airstrip Expansion		
DRAWING TITLE:		
Airstrip Expansion - Plan and Centerline Profile		
DRAWING NO. DN-AE-02	SHEET 3 OF 7	REVISION NO. AB

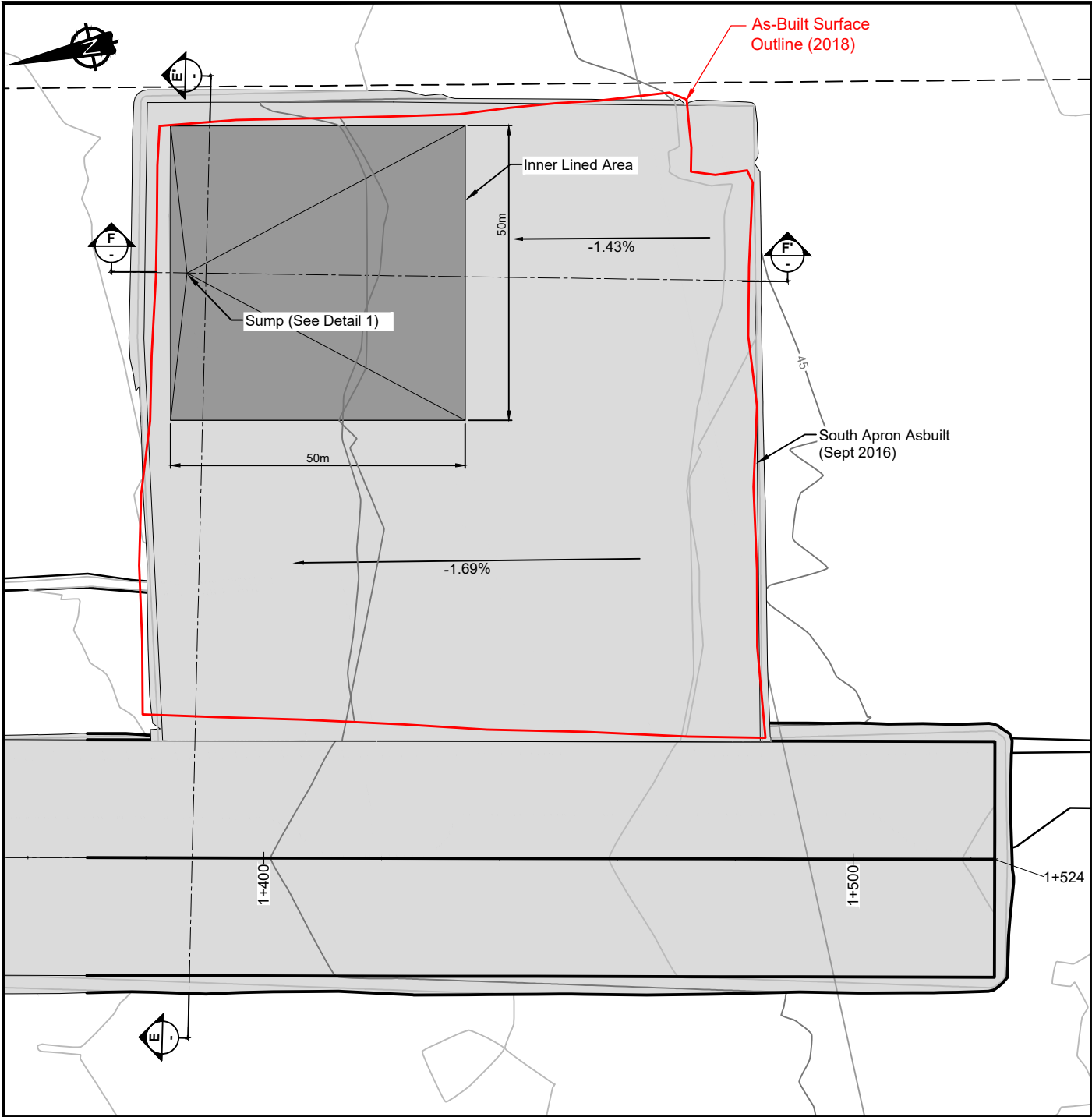
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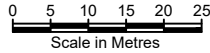
REFERENCE

1. SRK Consulting (Canada) Inc., 2011. Engineering Drawings for the Doris North Airstrip Expansion & Bypass Road, Doris North Project, Nunavut, Canada. Revision D. Issued for Review Drawings Prepared for Hope Bay Mining Limited. Project Number 1CH008.033. July 26, 2011

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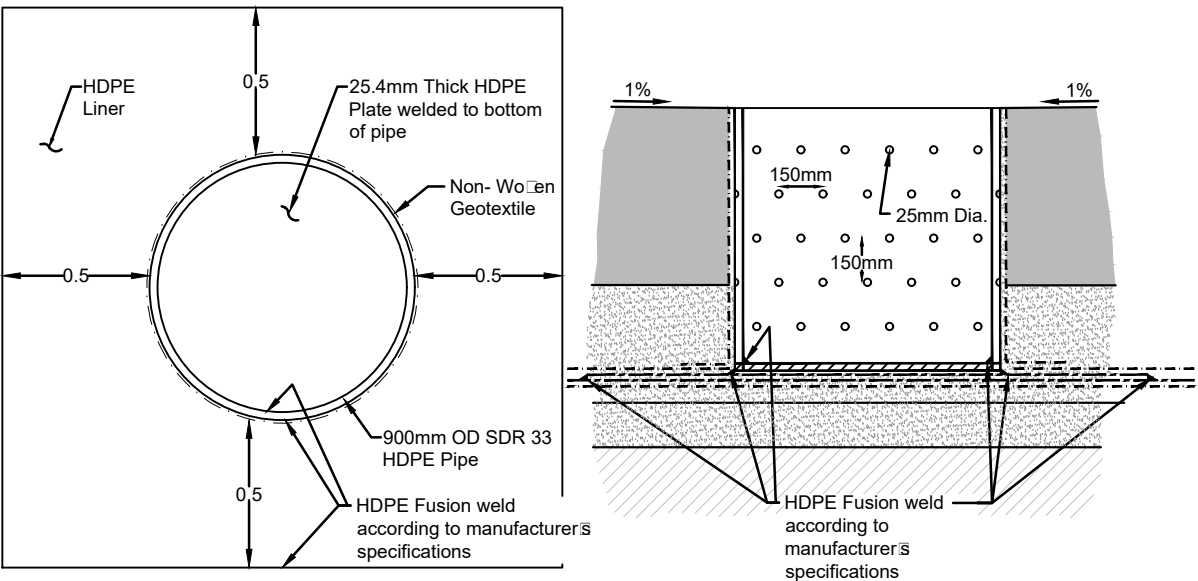


AIRSTRIP EXPANSION - PLAN



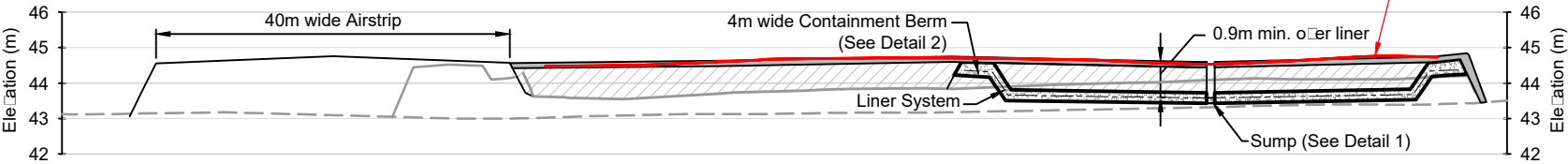
PLAN VIEW LEGEND

- Proposed Airstrip Expansion
- Lease Boundary
- Chainage
- Existing Roads and Infrastructure
- Lakes, Ponds or Permanent Water Bodies

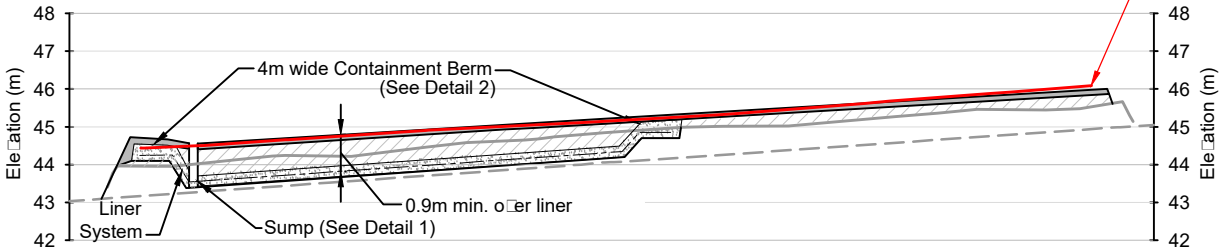


DETAIL 1 - SUMP

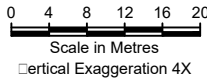
DETAIL 2
TYPICAL LINER SYSTEM AT CONTAINMENT BERM



SECTION E
AIRSTRIP EXPANSION & SOUTH APRON



SECTION F
SOUTH APRON



SECTION LEGEND

- Surfacing Material
- Bedding Material
- Transition Material
- Run of Quarry Material
- Rip Rap
- Non-woven Geotextile
- HDPE Liner
- Airstrip Apron Design
- Existing Ground
- Original Ground

Z:\031 SITE\Shore Bay\1022\2018 Drawings\As-Built\02 South Apron\1022.005.300_ND-AE-01-05 AB.dwg

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE	NO.	DESCRIPTION	CHK'D	APP'D	DATE
				AB	AS-BUILT	CH	EMR	10Sep18
				2	SOUTH APRON UPDATES	MMM	EMR	7Oct16
				1	SOUTH APRON UPDATES	MMM	EMR	4Oct16
				0	SOUTH APRON ADDITION	KK	EMR	24Jun16
REFERENCE DRAWINGS				REVISIONS				

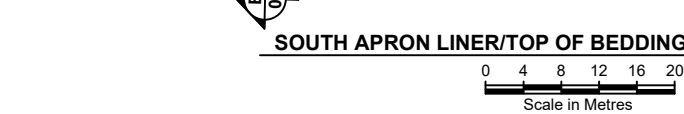
				Airstrip Expansion	
				DRAWING TITLE: Airstrip Expansion South Apron Plan, Sections and Details	
DESIGN: -		DRAWN: V/JG		REVIEWED: CH	
CHECKED: CH		APPROVED: EMR		DATE: Sep. 10, 2018	
FILE NAME: 1CT022.005.300_ND-AE-01-05 AB.dwg		SRK JOB NO.: 1CH022.005.300		DORIS NORTH PROJECT	
PROFESSIONAL ENGINEERS STAMP		SHEET 6 OF 7		REVISION NO. AB	



A horizontal scale bar with a double line border. It has tick marks at intervals of 4 units, labeled 0, 4, 8, 12, 16, and 20. Below the bar is the text "Scale in Metres".

	Proposed Airstrip Expansion	0+000	Chainage
	Lease Boundary		Existing Roads and Infrastructure
	Stakeout Point		Lakes, Ponds or Permanent Water Bodies

ID	Northing (m)	Easting (m)	Elevation (m)
CB-1	7,561,089.69	432,876.80	44.10
CB-2	7,561,079.06	432,925.65	44.10
CB-3	7,561,030.18	432,914.96	44.70
CB-4	7,561,040.89	432,866.13	44.70
CB-5	7,561,087.55	432,878.18	43.45
CB-6	7,561,077.68	432,923.50	43.45
CB-7	7,561,032.33	432,913.59	44.20
CB-8	7,561,042.27	432,868.27	44.20
CB-9	7,561,082.61	432,900.81	43.35



A horizontal scale bar with markings at 0, 4, 8, 12, 16, and 20. Below the bar is the text "Scale in Metres".

ID	Northing (m)	Easting (m)	Elevation (m)
L-1	7,561,087.14	432,878.44	43.60
L-2	7,561,077.42	432,923.09	43.60
L-3	7,561,032.74	432,913.32	44.35
L-4	7,561,042.53	432,868.69	44.35
L-5	7,561,089.28	432,877.07	44.25
L-6	7,561,078.79	432,925.23	44.25
L-7	7,561,030.60	432,914.70	44.85
L-8	7,561,041.16	432,866.55	44.85
L-9	7,561,093.27	432,874.51	44.25
L-10	7,561,081.35	432,929.22	44.25
L-11	7,561,026.61	432,917.25	44.85
L-12	7,561,038.60	432,862.56	44.85
L-13	7,561,082.27	432,900.74	43.50

[illegible]

DESIGN: -	DRAWN: VJG	REVIEWED: CH
CHECKED: CH	APPROVED: EMR	DATE: Sep. 10, 2018

DORIS NORTH PROJECT

Airstrip Expansion South Apron Stakeout Point Plans

SHEET
7 OF 7

REVISION NO.
AB

PROFESSIONAL ENGINEERS STAMP

P FILE NAME: 1CT022.005.300_ND-AE-01-05 AB.dwg

SRK JOB NO.:	1CH022.005.300
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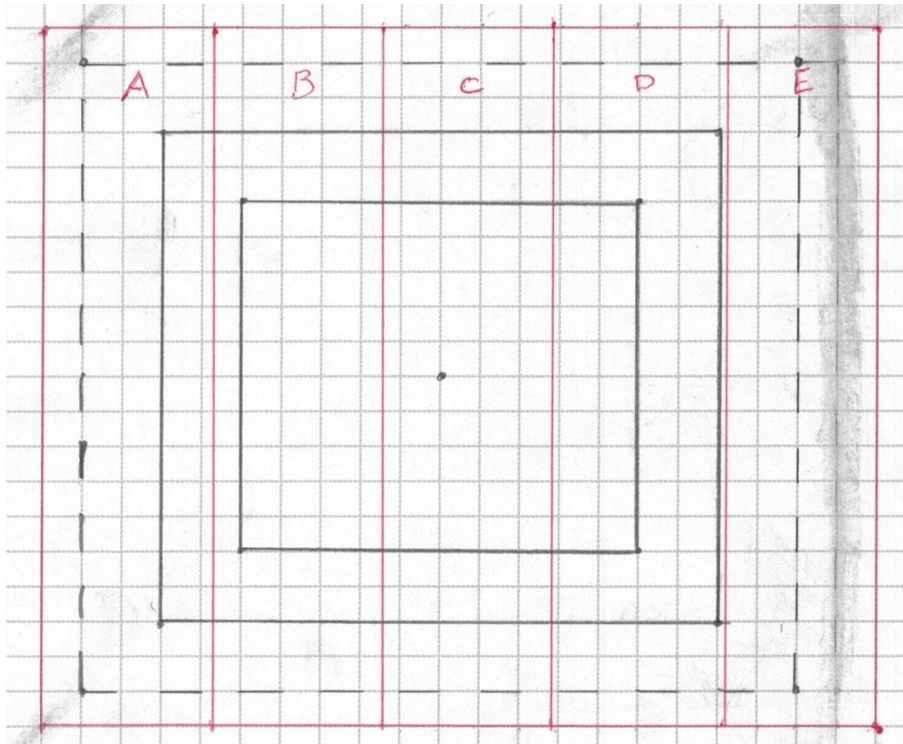
Tailings Catch Basin

Quality Assurance/Quality Control

Manager/Supervisor: Workers must review and be familiar with seaming Geomembrane processes, Seamer must understand guidelines, testing measures, and equipment used to preform seaming, testing and repairs.	
Company Name: Blomberg Building Group	
Site Name: Doris North, Hope bay	
Work area: TLR Tailings Catch Basin	
Job/task: HDPE Seam Welding	
Supervisor name: Eric Blomberg	Signature:

Preparation of tailings catch basin were done by NUNA Contacting, reference Drawings TCB-DN-02 for Earthworks and Geomembrane Layouts. Drawings Below are Rough Fits for Geotextile and HDPE Geomembrane.

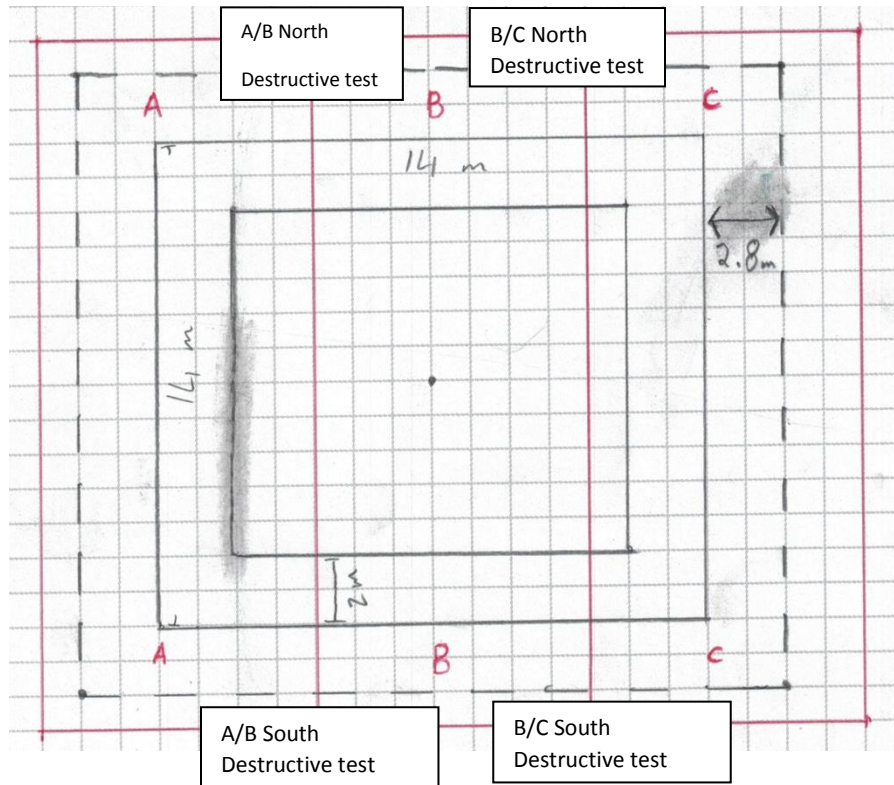
Section 1.0 Geo textile





Roll # Panel: A	Seam: A-B	Manufacture date: 2016-08-22	Serial No. Q34U00481
Roll # Panel: B	Seam: B-C	Manufacture date: 2015-04-08	Serial No. 030534037
Roll # Panel: C	Seam: C-D	Manufacture date: 2015-11-25	Serial No.030515196
Roll # Panel: D	Seam: D-E	Manufacture date: 2015-04-08	Serial No.030534074
Roll # Panel: E	Seam: E-F	Manufacture date: 2015-04-08	Serial No. 030533989

Section 2.0 HDPE



Roll #1: Panel: A,B,C Type:	Type: Textured SS HDPE	Serial No. 1-93602	Date Manufactured: No Roll Tag	Thickness: 60 mils
-----------------------------------	---------------------------	-----------------------	--------------------------------------	-----------------------

Non-Destructive Tests

Air Channel Testing (Hot wedge welds) 5 Min Test at 30 PSI, down 2-3 PSI max. Circle Pass or Fail.

Seam ID: Panel AB	Seam Tester ID: Manometer	Time: August 16 th , 9:45am	Pressure loss: 0	Pass	Fail
Seam ID: Panel BC	Seam Tester ID: Manometer	Time: August 16 th , 10:20am	Pressure loss: 0	Pass	Fail
Seam ID: Panel BC	Seam Tester ID: Manometer	Time: August 16 th , 10:31am	Pressure loss: 0	Pass	Fail



Destructive tests

Onsite Destructive Testing Locations (Every 500 Ft Min), 5 Peel and 5 shear tests done onsite. 5 Peel and 5 shear tests sent to independent lab.

Destruct ID: North AB	Seam ID: Panel AB	Welder ID: PW3627	TEST 1
Destruct ID: South BC	Seam ID: Panel BC	Welder ID: PW3627	TEST 2
North CD	Seam ID: Panel CD	Welder ID: PW3627	Test 3

Onsite Destructive Test Results

A/B North		1	2	3	4	5
A	Peel strength (ppi)	131	116	125	113	98
	Peel separation %	<5	<5	<5	<5	<5
	Peel Locus of Failure Code	SE	SE	SE	SE	SE
	Peel Failure Code	FTB	FTB	FTB	FTB	FTB
B	Peel strength (ppi)	100	119	101	110	107
	Peel separation %	<5	<5	<5	<5	<5
	Shear strength (ppi)	167	173	170	164	161
	Peel Locus of Failure Code	SE	SE	SE	SE	SE
	Peel Failure Code	FTB	FTB	FTB	FTB	FTB
B/C South		1	2	3	4	5
B	Peel strength (ppi)	98	106	113	108	109
	Peel separation %	<5	<5	<5	<5	<5
	Peel Locus of Failure Code	SE	SE	SE	SE	SE
	Peel Failure Code	FTB	FTB	FTB	FTB	FTB
C	Peel strength (ppi)	125	141	115	127	122
	Peel separation %	<5	<5	<5	<5	<5
	Shear strength (ppi)	171	169	175	165	174
	Peel Locus of Failure Code	SE	SE	SE	SE	SE
	Peel Failure Code	FTB	FTB	FTB	FTB	FTB
C/D North		1	2	3	4	5
C	Peel strength (ppi)	116	122	96	96	108
	Peel separation %	<5	<5	<5	<5	<5
	Peel Locus of Failure Code	SE	SE	SE	SE	SE



	Peel Failure Code	FTB	FTB	FTB	FTB	FTB
D	Peel strength (ppi)	127	114	111	121	105
	Peel separation %	<5	<5	<5	<5	<5
	Shear strength (ppi)	116	123	170	178	173
	Peel Locus of Failure Code	SE	SE	SE	SE	SE
	Peel Failure Code	FTB	FTB	FTB	FTB	FTB

Offsite Destructive Testing Locations

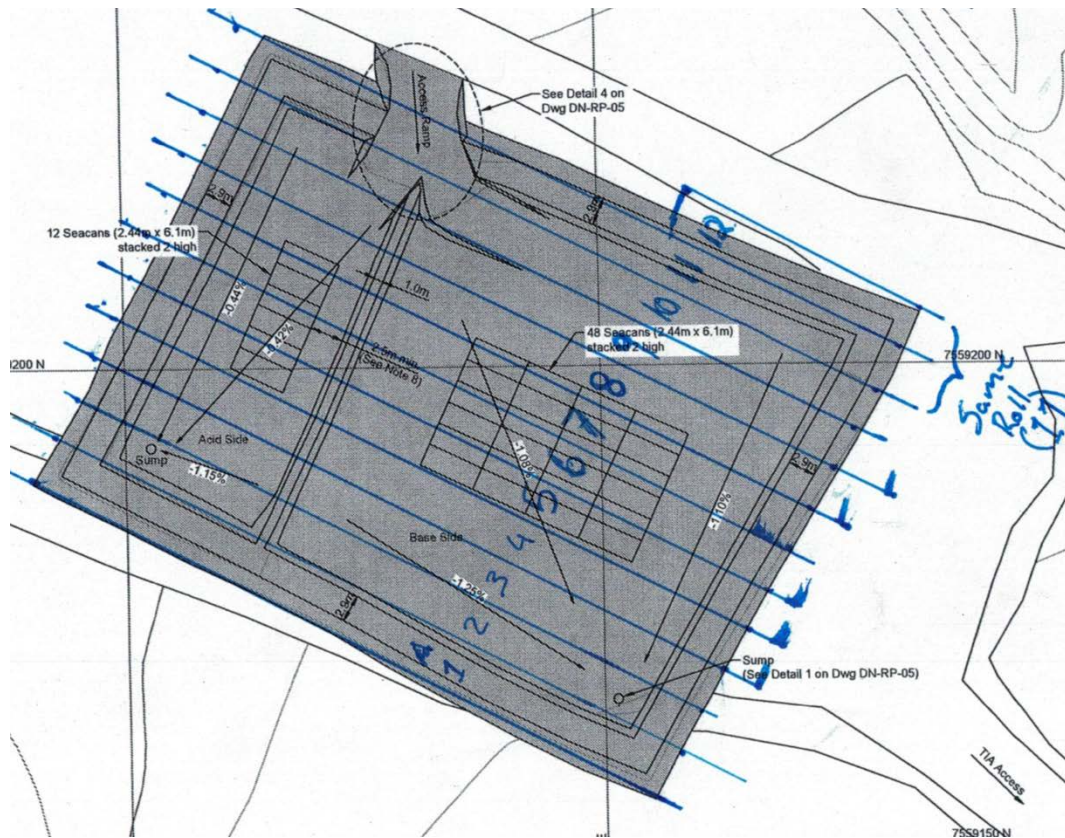
Destruct ID: South AB	Date: January 12 th , 2018	TRI Chain of custody completed and mailed	Yes	No
Destruct ID: North BC	Date: January 12 th , 2018	TRI Chain of custody completed and mailed	Yes	No
Destruct ID: North CD	Date: January 12 th , 2018	TRI Chain of custody completed and mailed	Yes	No

Repairs of Sample Cut outs: (Extrusion Weld) 4-8 PSI for Min time of 10 seconds, Observe for Bubbles.

Samples were taken from material hanging on the backside of the berm. They are in a position that will never be required to hold any fluids.

Repairs of Holes in HDPE Liner: (Extrusion Weld Vacuum Test) 4-8 PSI for Min time of 10 seconds, Observe for Bubbles.

Repair ID: Patch 1 BC	Personnel Preforming weld: Zane Miller	Time: 10:41am	Date: 08/17/17	Pass	Fail
Repair ID: Patch 2 BC	Personnel Preforming weld: Zane Miller	Time: 10:55am	Date: 08/17/17	Pass	Fail
Repair ID: Patch 3CD	Personnel Preforming weld: Zane Miller	Time: 11:21am	Date: 08/17/17	Pass	Fail
Extrusion Weld 1	Personnel Preforming weld: Zane Miller	Time: 11:45am	Date: 08/17/17	Pass	Fail
Extrusion Weld 2	Personnel Preforming weld: Zane Miller	Time: 1:23pm	Date: 08/17/17	Pass	Fail



Bottom Roll: Roll # 1	Seam: 1-2	Manufacture date: 4/9/15	Serial No. 030534115
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Bottom Roll: Roll # 2	Seam: 2-3	Manufacture date: 4/8/15	Serial No. 030534054
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Bottom Roll: Roll # 3	Seam: 3-4	Manufacture date: 4/8/15	Serial No. 030533990
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Bottom Roll: Roll # 4	Seam: 4-5	Manufacture date: 4/9/15	Serial No. 030534151
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Bottom Roll: Roll # 5	Seam: 5-6	Manufacture date: 4/9/15	Serial No. 030534158
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Bottom Roll: Roll # 6	Seam: 6-7	Manufacture date: 4/8/15	Serial No. 030533996
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Bottom Roll: Roll # 7	Seam: 7-8	Manufacture date: 08/22/16	Serial No. Q34U00271
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Bottom Roll: Roll # 8	Seam: 8-9	Manufacture date: 4/8/15	Serial No. 030534036
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Bottom Roll: Roll # 9	Seam: 9-10	Manufacture date: Couldn't Identify	Serial No. Q50J00361
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Bottom Roll: Roll # 10	Seam: 10-11	Manufacture date: 4/9/15	Serial No. 030534171
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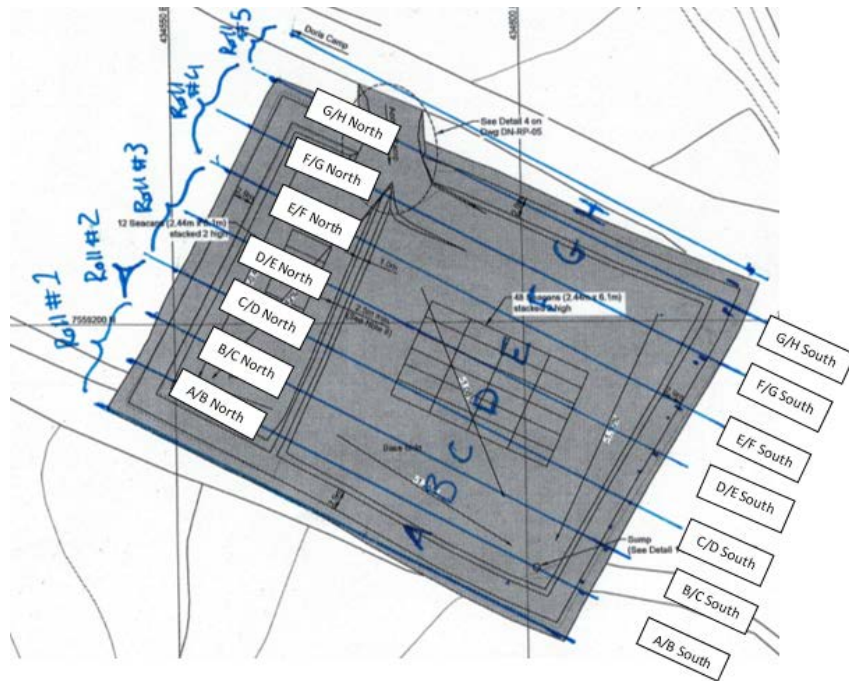




Bottom Roll: Roll # 11	Seam: 11-12	Manufacture date: 11/8/14	Serial No. 030513199
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Section 2.0 HDPE membrane



Roll #1: A & B Type: Textured SS HDPE	Serial No. 1-93634	Date Manufactured: No Roll Tag	Thickness 60 mils
Roll #2: C Type: Textured SS HDPE	Serial No. 1-93635	Date Manufactured: No Roll Tag	Thickness: 60 mils
Roll #3: D & E Type: Textured SS HDPE	Serial No. 1-93592	Date Manufactured: No Roll Tag	Thickness: 60 mils
Roll #4: F & G Type: Textured SS HDPE	Serial No. 1-93594	Date Manufactured: 7/13/2011	Thickness: 60 mils
Roll #5: H Type: Textured SS HDPE	Serial No. 1-93602	Date Manufactured: No Roll Tag	Thickness: 60 mils



Non-Destructive Tests

Air Channel Testing (Hot wedge welds) 5 Min Test at 30 PSI, down 2-3 PSI max. Circle Pass or Fail.

Seam ID: Panel AB	Seam Tester ID:	Time: 9:25	Pressure loss (PSI): 0	Pass	Fail
Seam ID: Panel BC	Seam Tester ID:	Time: 10:05	Pressure loss (PSI): 0	Pass	Fail
Seam ID: Panel CD	Seam Tester ID:	Time: 10:35	Pressure loss (PSI): 0	Pass	Fail
Seam ID: Panel DE	Seam Tester ID:	Time: 11:03	Pressure loss (PSI): 2	Pass	Fail
Seam ID: Panel EF	Seam Tester ID:	Time: 11:28	Pressure loss (PSI): 0	Pass	Fail
Seam ID: Panel FG	Seam Tester ID:	Time: 11: 35	Pressure loss (PSI): 1	Pass	Fail
Seam ID: Panel GH	Seam Tester ID:	Time: 11:55	Pressure loss (PSI): 0	Pass	Fail

Onsite Destructive Testing Locations (Every 500 Ft Min), 5 Peel and 5 shear tests done onsite.
5 Peel and 5 shear tests sent to independent lab.

Destruct ID: North AB	Seam ID: Panel AB	Welder ID: PW3627	TEST 1
Destruct ID: South BC	Seam ID: Panel BC	Welder ID: PW3627	TEST 2
Destruct ID: North CD	Seam ID: Panel CD	Welder ID: PW3627	TEST 3
Destruct ID: South DE	Seam ID: Panel DE	Welder ID: PW3627	TEST 4
Destruct ID: North EF	Seam ID: Panel EF	Welder ID: PW3627	TEST 5
Destruct ID: South FG	Seam ID: Panel FG	Welder ID: PW3627	TEST 6
Destruct ID: North GH	Seam ID: Panel GH	Welder ID: PW3627	TEST 7

Onsite Destructive Test Results

A/B North		1	2	3	4	5	MEAN
A	Peel strength (ppi)	122	109	104	117	99	110.2
	Peel separation %	<5	<5	<5	<5	<5	
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	

	Peel Failure Code	FTB	FTB	FTB	FTB	FTB	
B	Peel strength (ppi)	79	118	100	119	119	107
	Peel separation %	<5	<5	<5	<5	<5	
	Shear strength (ppi)	167	164	160	161	161	162.6
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel Failure Code	FTB	FTB	FTB	FTB	FTB	
B/C South		1	2	3	4	5	MEAN
B	Peel strength (ppi)	119	141	148	144	146	139.6
	Peel separation %	<5	<5	<5	<5	<5	
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel Failure Code	FTB	FTB	FTB	FTB	FTB	
C	Peel strength (ppi)	116	114	112	121	105	113.6
	Peel separation %	<5	<5	<5	<5	<5	
	Shear strength (ppi)	167	167	175	170	165	168.8
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel Failure Code	FTB	FTB	FTB	FTB	FTB	
C/D North		1	2	3	4	5	MEAN
C	Peel strength (ppi)	124	121	127	121	118	122.2
	Peel separation %	<5	<5	<5	<5	<5	
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel Failure Code	FTB	FTB	FTB	FTB	FTB	
D	Peel strength (ppi)	126	127	131	124	130	127.6
	Peel separation %	<5	<5	<5	<5	<5	
	Shear strength (ppi)	173	168	164	162	165	166.4
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel Failure Code	FTB	FTB	FTB	FTB	FTB	
D/E South		1	2	3	4	5	MEAN
D	Peel strength (ppi)	128	115	139	136	136	130.8
	Peel separation %	<5	<5	<5	<5	<5	
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel Failure Code	FTB	FTB	FTB	FTB	FTB	
E	Peel strength (ppi)	108	116	114	111	114	112.6
	Peel separation %	<5	<5	<5	<5	<5	
	Shear strength (ppi)	164	159	157	165	168	162.6
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel Failure Code	FTB	FTB	FTB	FTB	FTB	

E/F North		1	2	3	4	5	MEAN
E	Peel strength (ppi)	122	126	126	117	120	122.2
	Peel separation %	<5	<5	<5	<5	<5	
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel Failure Code	FTB	FTB	FTB	FTB	FTB	
F	Peel strength (ppi)	120	125	110	125	113	118.6
	Peel separation %	<5	<5	<5	<5	<5	
	Shear strength (ppi)	179	171	181	178	175	176.8
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel Failure Code	FTB	FTB	FTB	FTB	FTB	
F/G South		1	2	3	4	5	MEAN
F	Peel strength (ppi)	131	108	117	130	112	119.6
	Peel separation %	<5	<5	<5	<5	<5	
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel Failure Code	FTB	FTB	FTB	FTB	FTB	
G	Peel strength (ppi)	147	133	144	131	134	137.8
	Peel separation %	<5	<5	<5	<5	<5	
	Shear strength (ppi)	176	165	179	167	176	172.6
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel Failure Code	FTB	FTB	FTB	FTB	FTB	
G/H North		1	2	3	4	5	MEAN
G	Peel strength (ppi)	125	122	126	96	104	114.6
	Peel separation %	<5	<5	<5	<5	<5	
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel Failure Code	FTB	FTB	FTB	FTB	FTB	
H	Peel strength (ppi)	140	108	139	123	138	129.6
	Peel separation %	<5	<5	<5	<5	<5	
	Shear strength (ppi)	171	159	174	171	174	169.8
	Peel Locus of Failure Code	SE	SE	SE	SE	SE	
	Peel Failure Code	FTB	FTB	FTB	FTB	FTB	