Engineering Drawings for the Doris North Camp Area, Doris North Project, Nunavut, Canada

ACTIVE DRAWING STATUS

SRK DWG NUMBER	NEWMONT DWG NUMBER	DRAWING TITLE	REV.	DATE	STATUS	OLD/REPLACED REVISIONS				
DN-DMC-00	HB+D-CIV-CIV-OND-0039	Engineering Drawings for Doris North Camp Area	AB1	May 18, 2012	As-built	AB, Dec. 16, 2011	Rev. 17, Nov. 23, 2011	Rev. 16, Oct. 26, 2011	Rev. 15, Oct. 26, 2011	Rev. 14, Oct. 13, 2011
DN-DMC-01	HB+D-CIV-CIV-OND-0030	Doris North Camp Grading Plan (West Side)	AB	Dec. 16, 2011	As-built	AB, Dec. 16, 2011	Rev. 3, Jun. 30, 2010	Rev. 2, Jun. 24, 2010	Rev. 1, Jun. 4, 2010	Rev. 0, May 26, 2010
DN-DMC-02	HB+D-CIV-CIV-OND-0040	Doris North Camp Sections and Details (West Side)	AB	Dec. 16, 2011	As-built	AB, Dec. 16, 2011	Rev. 1, Jun. 30, 2010	Rev. 0, Jun. 24, 2010	Rev. A, Jun. 4, 2010	
DN-DMC-03	HB+D-CIV-CIV-OND-0041	Doris North Camp Sections and Details (West Side)	AB	Dec. 16, 2011	As-built	AB, Dec. 16, 2011	Rev. 1, Jun. 30, 2010	Rev. 0, Jun. 24, 2010	Rev. A, Jun. 4, 2010	
DN-DMC-04	HB+D-CIV-CIV-OND-0042	Doris North Camp Sections and Details (West Side)	1	Jun. 30, 2010	IFC	Rev. 0, Jun. 24, 2010	Rev. A, Jun. 13, 2010			
DN-DMC-05	HB+D-CIV-CIV-OND-0052	Material Specifications (West Side)	1	Jun. 30, 2010	IFC	Rev. 0, Jun. 24, 2010	Rev. A, Jun. 4, 2010			
DN-DMC-06	HB+D-CIV-CIV-OND-0048	Doris North Camp Grading Plan (East Side)	AB	Dec. 16, 2011	As-built	AB, Dec. 16, 2011	Rev. 0, Jun. 24, 2010			
DN-DMC-07	HB+D-CIV-CIV-OND-0049	Doris North Camp Sections and Details (East Side)	AB	Dec. 16, 2011	As-built	AB, Dec. 16, 2011	Rev. 0, Jun. 24, 2010			
DN-DMC-08	HB+D-CIV-CIV-OND-0050	Doris North Camp Sections and Details (East Side)	0	Jun. 24, 2010	IFC					
DN-DMC-09	HB+D-CIV-CIV-OND-0051	Material Specifications (East Side)	0	Jun. 24, 2010	IFC					
DN-DMC-010	HB+D-CIV-CIV-OND-0070	Sedimentation and Pollution Control Ponds Grading Plan	AB	Mar. 20, 2012	As-built	IFC, Jun. 20, 2011	Rev. 0, Sep. 29, 2010	Rev. A, Jul. 28, 2010		
DN-DMC-011	HB+D-CIV-CIV-OND-0071	Sedimentation and Pollution Control Ponds Sections	AB	Mar. 20, 2012	As-built	IFC, Jun. 20, 2011	Rev. 1, Feb. 14, 2011	Rev. 0, Sep. 29, 2010	Rev. A, Jul. 28, 2010	
DN-DMC-012	HB+D-CIV-CIV-OND-0072	Float Plane Dock Access Road and Dyke Profiles	AB	Mar. 20, 2012	As-built	IFC, Sep. 29, 2011	Rev. A, Jul. 28, 2010			
DN-DMC-013	HB+D-CIV-CIV-OND-0073	Material Specifications (Sedimentation & Pollution Control Ponds)	2	Jun. 09, 2011	IFC	Rev. 1, Feb. 14, 2011	Rev. 1, Feb. 14, 2011	Rev. 0, Sep. 29, 2010	Rev. A, Jul. 28, 2010	
DN-DMC-014	HB+D-CIV-CIV-OND-0080	Sedimentation and Pollution Control Ponds Typical Details	AB	Mar. 20, 2012	As-built	IFC, Jun. 20, 2011	Rev. 0, Sep. 29, 2010	Rev. A, Jul. 28, 2010		
DN-DMC-015	HB+D-CIV-CIV-OND-0082	Pad R - Raised Access Ramp	1	Aug. 08, 2010	Superseded by DN-DMC-19					
DN-DMC-016	HB+D-CIV-CIV-OND-0088	Pollution Control Pond Surfaces 1 and 2	0	Sep. 29, 2010	Superseded by DN-DMC-034 & 036					
DN-DMC-017	HB+D-CIV-CIV-OND-0089	Pollution Control Pond Surfaces 3 and 4	0	Sep. 29, 2010	Superseded by DN-DMC-037 & 038					
DN-DMC-018	HB+D-CIV-CIV-OND-0091	Pad C Expansion	AB	Dec. 16, 2011	As-built	AB, Dec. 16, 2011	Rev. 0, Sep. 8, 2010			
DN-DMC-019	HB+D-CIV-CIV-OND-0109	Doris North Access Road General Arrangement	AB	Dec. 16, 2011	As-built	AB, Dec. 16, 2011	Rev. 0, Sep. 8, 2010			
DN-DMC-020	HB+D-CIV-CIV-OND-0110	Doris North Access Road Profiles	AB	Dec. 16, 2011	As-built	AB, Dec. 16, 2011	Rev. 0, Sep. 8, 2010			
DN-DMC-021	HB+D-CIV-CIV-OND-0111	Doris North Access Road Sections and Details Sheet 1 of 2	AB	Dec. 16, 2011	As-built	AB, Dec. 16, 2011	Rev. 0, Sep. 8, 2010			
DN-DMC-022	HB+D-CIV-CIV-OND-0112	Doris North Access Road Sections and Details Sheet 2 of 2	AB	Dec. 16, 2011	As-built	AB, Dec. 16, 2011	Rev. 0, Sep. 8, 2010			
DN-DMC-023	HB+D-CIV-CIV-OND-0113	Material Specifications (Doris North Access Road)	0	Sep. 24, 2010	IFC					
DN-DMC-024	HB+D-CIV-CIV-OND-0120	Diversion Berm General Arrangement	0	Apr. 7, 2011	IFC	Rev. A, Mar. 21, 2011				
DN-DMC-025	HB+D-CIV-CIV-OND-0121	Diversion Berm Section and Details	0	Apr. 7, 2011	IFC	Rev. A, Mar. 21, 2011				
DN-DMC-026	HB+D-CIV-CIV-OND-0122	Material Specifications	-	-	Removed	Rev. A, Mar. 21, 2011				
DN-DMC-027	HB+D-CIV-CIV-OND-0123	Doris North Diversion Berm Sections	0	Apr. 7, 2011	IFC	Rev. A, Mar. 21, 2011				
DN-DMC-028	HB+D-CIV-CIV-OND-0124	Sedimentation Pond Surface 1 and 2	0	Jun. 09, 2011	Superseded by DN-DMC-042 & 043					
DN-DMC-029	HB+D-CIV-CIV-OND-0125	Sedimentation Pond Surface 3 and 4	0	Jun. 09, 2011	Superseded by DN-DMC-041 & 043					
DN-DMC-030	HB+D-CIV-CIV-OND-0126	Pad Q Expansion General Arrangement	0	Jun. 13, 2011	IFC					
DN-DMC-031	HB+D-CIV-CIV-OND-0127	Pad Q Expansion Sections	0	Jun. 13, 2011	IFC					
DN-DMC-032	HB+D-CIV-CIV-OND-0140	Existing Sedimentation and Pollution Pond General Arrangement	AB	Mar. 20, 2012	As-built	IFC, Nov. 23, 2011	Rev. 0, Aug. 19, 2011			
DN-DMC-033	HB+D-CIV-CIV-OND-0141	Pollution Pond Upgrade - Final Backfilled Surface	AB	Mar. 20, 2012	As-built	IFC, Oct. 26, 2011	Rev. 0, Aug. 19, 2011			
DN-DMC-034	HB+D-CIV-CIV-OND-0142	Pollution Pond Upgrade - Excavation Surface	AB	Mar. 20, 2012	As-built	IFC, Aug. 19, 2011				
DN-DMC-035	HB+D-CIV-CIV-OND-0143	Pollution Pond Excavation Sections	AB	Mar. 20, 2012	As-built	IFC, Aug. 19, 2011				
DN-DMC-036	HB+D-CIV-CIV-OND-0144	Pollution Pond Upgrade - Liner Extension Surface	AB	Mar. 20, 2012	As-built	IFC, Aug. 19, 2011				
DN-DMC-037	HB+D-CIV-CIV-OND-0145	Pollution Pond Upgrade - Overliner (Crush) Surface	AB	Mar. 20, 2012	As-built	IFC, Aug. 19, 2011				
DN-DMC-038	HB+D-CIV-CIV-OND-0146	Pollution Pond Upgrade - Final Surface w. Stake Out Points	AB	Mar. 20, 2012	As-built	IFC, Aug. 19, 2011				
DN-DMC-039	HB+D-CIV-CIV-OND-0147	Pollution Pond Sections & Details w. Liner Installed and Backfilled	AB	Mar. 20, 2012	As-built	IFC, Jun. 20, 2011	Rev. 0, Aug. 19, 2011			
DN-DMC-040	HB+D-CIV-CIV-OND-0148	Pollution Pond Stake Out Point Tables	0	Aug. 19, 2011	IFC					
DN-DMC-041	HB+D-CIV-CIV-OND-0149	Sedimentation Pond Upgrade - Final Surface	AB1	May 18, 2012	As-built	IFC, Oct. 26, 2011	Rev. 0, Aug. 25, 2011			
DN-DMC-042	HB+D-CIV-CIV-OND-0150	Sedimentation Pond Upgrade - Excavation Surface	AB	Mar. 20, 2012	As-built	IFC, Aug. 25, 2011				
DN-DMC-043	HB+D-CIV-CIV-OND-0151	Sedimentation Pond Upgrade - Liner Surface	AB1	May 18, 2012	As-built	IFC, Aug. 25, 2011				
DN-DMC-044	HB+D-CIV-CIV-OND-0152	Sedimentation Pond Sections and Details	AB	Mar. 20, 2012	As-built	IFC, Oct. 26, 2011	Rev. 0, Aug. 25, 2011			
DN-DMC-045	HB+D-CIV-CIV-OND-0153	Doris Camp Sump Locations	0	Aug. 26, 2011	IFC					
DN-DMC-046	HB+D-CIV-CIV-OND-0154	Doris Camp Sump Section and Details	1	Oct. 13, 2011	IFC	Rev. 0, Sept. 20, 2011	Rev. A, Aug. 26, 2011			
DN-DMC-047	HB+D-CIV-CIV-OND-0163	Ground Temperature Cable Section and Details	A	Nov. 23, 2011	IFR					

HOPE BAY MINING LTD.

srk consulting

PROJECT NO: 1CH008.033
ISSUED FOR CONSTRUCTION
REVISION AB1, May 18, 2012
DN-DMC-00 / HB+D-CIV-CIV-OND-0039

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MATERIAL LIST AND QUANTITIES

	Item	Quantity/ Area/ Volume		Description
1.	~0.2m levelling course	Over OG	330m³	Civil 3D Quantities to neat lines. Liner/geotextile quantities listed fo not accound for overlap
2.	Pad E/P Back Slope 3/4" crush	Min 0.6m wide portion	130m³	
3.	Pad E/P Back Slope 3/4" crush	<0.6m wider portion to blend slope into Pad E/P AB	80m³	
4.	HDPE Liner	New segment	3530m²	
5.	Non-Woven Geotextile		4730m²	
6.	1 1/4" or 3/4" Overliner crush	For horizontal liner on top of Pad E/P	60m²	
7.	Base Insullation	STYROFOAM Highload 40 (2" min)	1800m²	

NOTES

1. Horizontal top liner segment to be covered with 0.15m of 3/4" crush. Edge of Pad E/P, with new liner extension, to be field fit to ensure minimum 0.5% grading of Pad E/P is maintained towards sedimentation pond.
2. The barriers are to consist of boulders larger than 1m in diameter / or a rock fill berm 0.5m high. Maximum spacing between barriers is 1.0m.

DESIGN CAPACITY:

- Sediment pond capacity to Full Supply Level (FSL), El. 37.0 = 3,325 m³
- Sediment pond capacity to Top of Freeboard, El. 37.3 = 4,006 m³

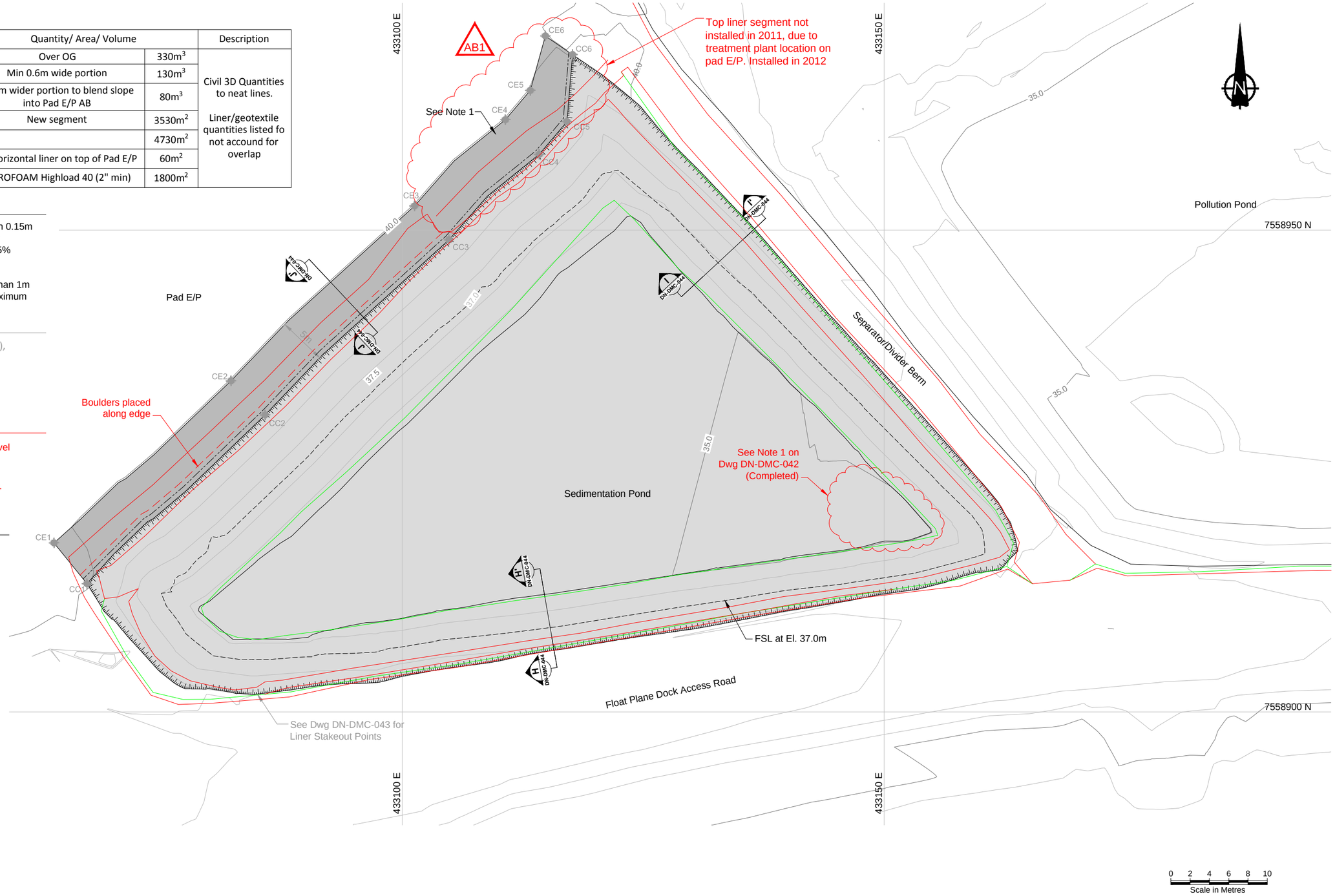
AS-BUILT CAPACITY:

- Sediment Pond As-built Capacity to full supply level (FSL) Elev. 37.0 m = 3,393 m³
- Sediment Pond Capacity to top of freeboard Elev. 37.3 m = 4,078 m³

LEGEND

- Exposed Liner Surface
- Top Anchored/Covered Liner
- Stake Out Point
- Boulder Barriers for Safety and To Anchor Liner (See Note 2)
- As-built Crest
- As-built Toe

LINER COVER STAKE OUT POINTS			
ID	Northing	Easting	Elevation
CC1	7558913.32	433067.29	40.04
CC2	7558930.84	433085.78	39.76
CC3	7558949.01	433104.86	39.52
CC4	7558957.87	433114.21	40.02
CC5	7558961.27	433117.10	39.77
CC6	7558968.22	433117.67	40.18
CE1	7558917.55	433063.88	40.19
CE2	7558934.37	433082.24	40.25
CE3	7558952.53	433101.29	40.28
CE4	7558961.47	433110.71	40.17
CE5	7558964.51	433113.29	40.14
CE6	7558970.16	433114.86	40.18



DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
–	–		

REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
AB1	AS-BUILT	MMM	EMR	18MAY12
AB	AS-BUILT	JBK	LW	20MAR12
1	ISSUED FOR CONSTRUCTION	JBK	LW	26OCT11
0	ISSUED FOR CONSTRUCTION	JBK	EMR	25AUG11

REVISIONS

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PROFESSIONAL ENGINEERS STAMP

srk consulting

DESIGN: JBK	DRAWN: NV	REVIEWED: LW
CHECKED: JBK/MMM	APPROVED: EMR	DATE: May. 18, 2012

FILE NAME: 1CH008.033-000-PLN-DNDMC41-AB.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LIMITED

SRK JOB NO.: 1CH008.033/.058 SRK DWG NO.: DN-DMC-041

DORIS NORTH PROJECT

DRAWING TITLE: Sedimentation Pond Upgrade - Final Surface

DRAWING NO. HB+D-CIV-CIV-OND-0149 | SHEET 42 OF 46 | REVISION NO. AB1

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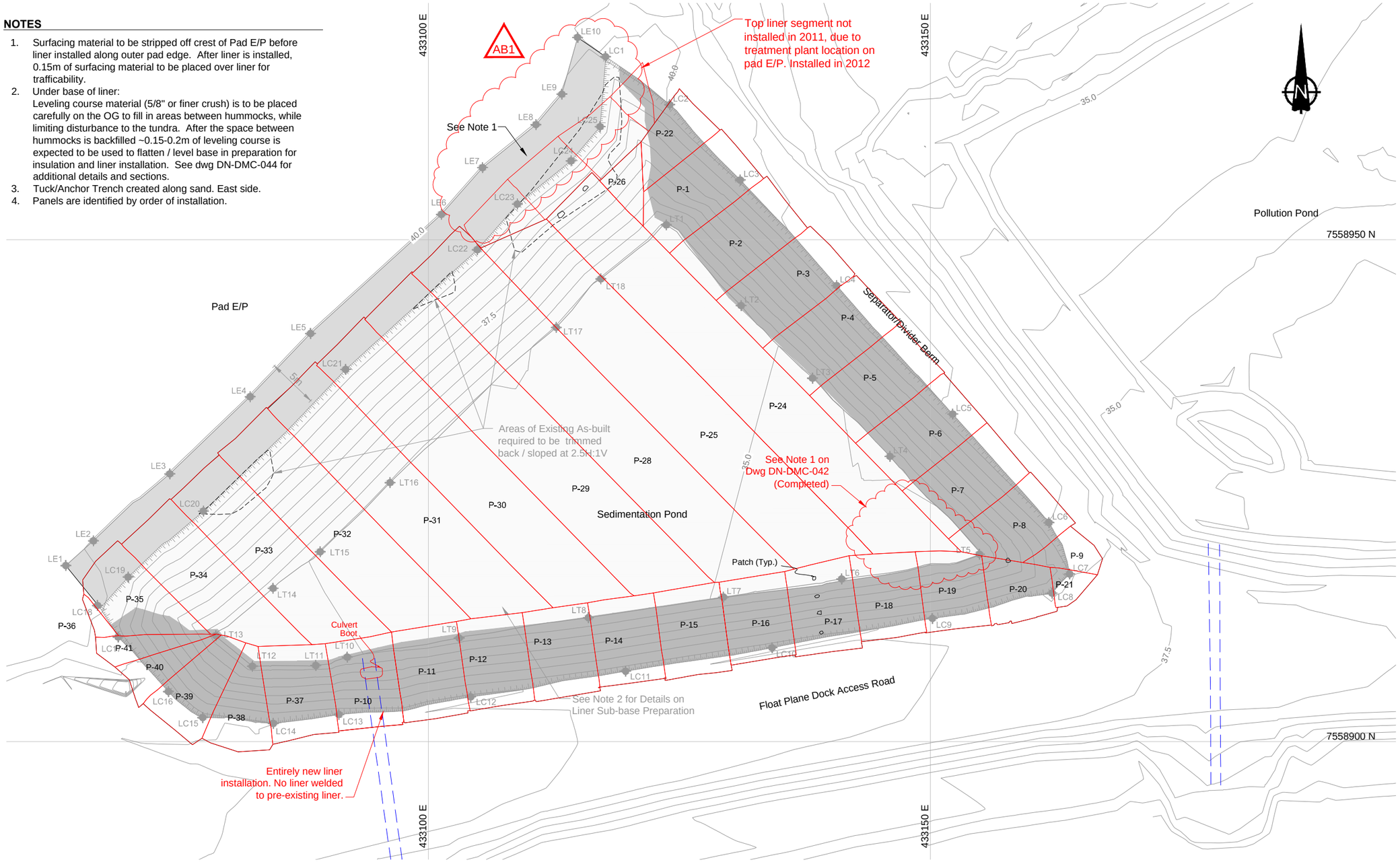
LINER STAKE OUT POINTS			
ID	Northing	Easting	Elevation
LT1	7558951.49	433123.69	35.40
LT2	7558943.44	433131.15	35.13
LT3	7558936.22	433138.26	34.92
LT4	7558928.42	433145.97	35.03
LT5	7558918.67	433154.89	34.97
LT6	7558916.22	433141.16	34.86
LT7	7558914.40	433129.38	34.97
LT8	7558912.36	433115.93	35.00
LT9	7558910.33	433103.06	35.22
LT10	7558908.43	433091.91	35.58
LT11	7558907.60	433088.78	35.74
LT12	7558907.52	433082.46	35.75
LT13	7558910.56	433078.84	35.73
LT14	7558915.29	433084.52	35.72
LT15	7558918.92	433089.22	35.46
LT16	7558925.81	433096.17	35.46
LT17	7558941.27	433112.73	35.44
LT18	7558946.11	433117.17	35.44
LC1	7558968.24	433117.64	40.15
LC2	7558963.46	433124.03	39.99
LC3	7558955.96	433131.06	39.61
LC4	7558945.44	433140.66	39.37
LC5	7558932.64	433152.22	38.96
LC6	7558921.82	433161.81	38.47
LC7	7558916.71	433163.87	38.02
LC8	7558914.80	433162.12	38.05
LC9	7558912.28	433150.20	37.86
LC10	7558909.36	433134.23	38.23
LC11	7558907.03	433119.64	38.26
LC12	7558904.47	433104.21	38.61
LC13	7558902.71	433091.08	38.81
LC14	7558901.82	433084.54	39.01
LC15	7558902.41	433077.51	39.21
LC16	7558905.00	433074.10	39.35
LC17	7558910.42	433069.09	39.76
LC18	7558913.58	433067.03	40.07
LC19	7558916.41	433070.09	39.85
LC20	7558922.97	433077.59	39.85
LC21	7558937.09	433091.75	39.85
LC22	7558949.01	433104.86	39.85
LC23	7558953.56	433108.86	39.85
LC24	7558957.87	433114.21	39.85
LC25	7558961.27	433117.10	39.85
LE1	7558917.55	433063.88	40.19
LE2	7558920.01	433066.63	39.91
LE3	7558926.68	433074.24	39.91
LE4	7558934.37	433082.24	39.91
LE5	7558940.67	433088.26	39.91
LE6	7558952.53	433101.29	39.91
LE7	7558957.19	433105.39	39.91
LE8	7558961.47	433110.71	39.91
LE9	7558964.51	433113.29	39.91
LE10	7558970.16	433114.86	40.18

NOTES

1. Surfacing material to be stripped off crest of Pad E/P before liner installed along outer pad edge. After liner is installed, 0.15m of surfacing material to be placed over liner for trafficability.
2. Under base of liner:
   Leveling course material (5/8" or finer crush) is to be placed carefully on the OG to fill in areas between hummocks, while limiting disturbance to the tundra. After the space between hummocks is backfilled ~0.15-0.2m of leveling course is expected to be used to flatten / level base in preparation for insulation and liner installation. See dwg DN-DMC-044 for additional details and sections.
3. Tuck/Anchor Trench created along sand. East side.
4. Panels are identified by order of installation.



LEGEND

- Liner Extension Surface
- Existing Liner Beneath Excavation
- Stake Out Point
- As-built Crest
- As-built Toe

0 2 4 6 8 10
Scale in Metres

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
–	–		

REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
AB1	AS–BUILT	MMM	EMR	18MAY12
AB	AS–BUILT	MMM	LW	20MAR12
0	ISSUED FOR CONSTRUCTION	JBK	EMR	24AUG11

REVISIONS

This drawing is uncontrolled when printed unless stamped and signed with original ink and recorded on a Distribution Register.

PROFESSIONAL ENGINEERS STAMP

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DESIGN: JBK | DRAWN: NV | REVIEWED: LW
CHECKED: JBK/MMM | APPROVED: EMR | DATE: May. 18, 2012
FILE NAME: 1CH008.033–000–PLN–DNDMC43–AB.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LIMITED

SRK JOB NO.: 1CH008.033/.058 | SRK DWG NO.: DN-DMC-043

DORIS NORTH PROJECT

DRAWING TITLE: Sedimentation Pond Upgrade - Liner Surface

DRAWING NO. HB+D-CIV-CIV-OND-0151 | SHEET 44 OF 46 | REVISION NO. AB1

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Engineering Drawings for the Doris North Camp Area, Doris North Project, Nunavut, Canada

ACTIVE DRAWING STATUS

SRK DWG NUMBER	NEWMONT DWG NUMBER	DRAWING TITLE	REV.	DATE	STATUS	OLD/REPLACED REVISIONS				
DN-DMC-00	HB+D-CIV-CIV-OND-0039	Engineering Drawings for Doris North Camp Area	AB	Mar. 20, 2012	AB 2010	AB, Dec. 16, 2011	Rev. 17, Nov. 23, 2011	Rev. 16, Oct. 26, 2011	Rev. 15, Oct. 26, 2011	Rev. 14, Oct. 13, 2011
DN-DMC-01	HB+D-CIV-CIV-OND-0030	Doris North Camp Grading Plan (West Side)	AB	Dec. 16, 2011	AB 2010	AB, Dec. 16, 2011	Rev. 3, Jun. 30, 2010	Rev. 2, Jun. 24, 2010	Rev. 1, Jun. 4, 2010	Rev. 0, May 26, 2010
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DN-DMC-03	HB+D-CIV-CIV-OND-0041	Doris North Camp Sections and Details (West Side)	AB	Dec. 16, 2011	AB 2010	AB, Dec. 16, 2011	Rev. 1, Jun. 30, 2010	Rev. 0, Jun. 24, 2010	Rev. A, Jun. 4, 2010	
DN-DMC-04	HB+D-CIV-CIV-OND-0042	Doris North Camp Sections and Details (West Side)	1	Jun. 30, 2010	IFC	Rev. 0, Jun. 24, 2010	Rev. A, Jun. 13, 2010			
DN-DMC-05	HB+D-CIV-CIV-OND-0052	Material Specifications (West Side)	1	Jun. 30, 2010	IFC	Rev. 0, Jun. 24, 2010	Rev. A, Jun. 4, 2010			
DN-DMC-06	HB+D-CIV-CIV-OND-0048	Doris North Camp Grading Plan (East Side)	AB	Dec. 16, 2011	AB 2010	AB, Dec. 16, 2011	Rev. 0, Jun. 24, 2010			
DN-DMC-07	HB+D-CIV-CIV-OND-0049	Doris North Camp Sections and Details (East Side)	AB	Dec. 16, 2011	AB 2010	AB, Dec. 16, 2011	Rev. 0, Jun. 24, 2010			
DN-DMC-08	HB+D-CIV-CIV-OND-0050	Doris North Camp Sections and Details (East Side)	0	Jun. 24, 2010	IFC					
DN-DMC-09	HB+D-CIV-CIV-OND-0051	Material Specifications (East Side)	0	Jun. 24, 2010	IFC					
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DN-DMC-013	HB+D-CIV-CIV-OND-0073	Material Specifications (Sedimentation & Pollution Control Ponds)	2	Jun. 09, 2011	IFC	Rev. 1, Feb. 14, 2011	Rev. 1, Feb. 14, 2011	Rev. 0, Sep. 29, 2010	Rev. A, Jul. 28, 2010	
DN-DMC-014	HB+D-CIV-CIV-OND-0080	Sedimentation and Pollution Control Ponds Typical Details	AB	Mar. 20, 2012	AB 2011	IFC, Jun. 20, 2011	Rev. 0, Sep. 29, 2010	Rev. A, Jul. 28, 2010		
DN-DMC-015	HB+D-CIV-CIV-OND-0082	Pad R - Raised Access Ramp	1	Aug. 08, 2010	Superseded by DN-DMC-19					
DN-DMC-016	HB+D-CIV-CIV-OND-0088	Pollution Control Pond Surfaces 1 and 2	0	Sep. 29, 2010	Superseded by DN-DMC-034 & 036					
DN-DMC-017	HB+D-CIV-CIV-OND-0089	Pollution Control Pond Surfaces 3 and 4	0	Sep. 29, 2010	Superseded by DN-DMC-037 & 038					
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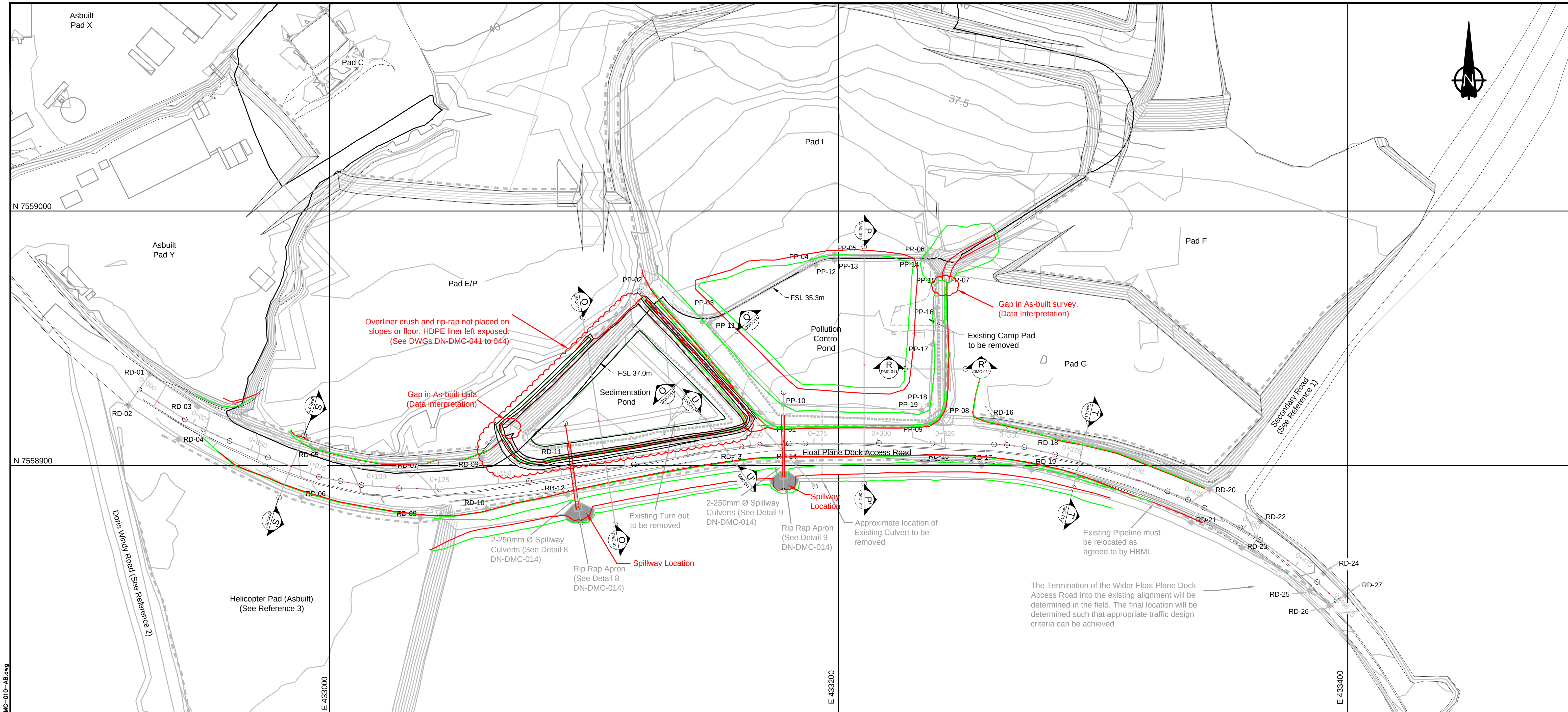
DN-DMC-023	HB+D-CIV-CIV-OND-0113	Material Specifications (Doris North Access Road)	0	Sep. 24, 2010	IFC					
DN-DMC-024	HB+D-CIV-CIV-OND-0120	Diversion Berm General Arrangement	0	Apr. 7, 2011	IFC	Rev. A, Mar. 21, 2011				
DN-DMC-025	HB+D-CIV-CIV-OND-0121	Diversion Berm Section and Details	0	Apr. 7, 2011	IFC	Rev. A, Mar. 21, 2011				
DN-DMC-026	HB+D-CIV-CIV-OND-0122	Material Specifications	-	-	Removed	Rev. A, Mar. 21, 2011				
DN-DMC-027	HB+D-CIV-CIV-OND-0123	Doris North Diversion Berm Sections	0	Apr. 7, 2011	IFC	Rev. A, Mar. 21, 2011				
DN-DMC-028	HB+D-CIV-CIV-OND-0124	Sedimentation Pond Surface 1 and 2	0	Jun. 09, 2011	Superseded by DN-DMC-042 & 043					
DN-DMC-029	HB+D-CIV-CIV-OND-0125	Sedimentation Pond Surface 3 and 4	0	Jun. 09, 2011	Superseded by DN-DMC-041 & 043					
DN-DMC-030	HB+D-CIV-CIV-OND-0126	Pad Q Expansion General Arrangement	0	Jun. 13, 2011	IFC					
DN-DMC-031	HB+D-CIV-CIV-OND-0127	Pad Q Expansion Sections	0	Jun. 13, 2011	IFC					
DN-DMC-032	HB+D-CIV-CIV-OND-0140	Existing Sedimentation and Pollution Pond General Arrangement	AB	Mar. 20, 2012	AB 2011	IFC, Nov. 23, 2011	Rev. 0, Aug. 19, 2011			
DN-DMC-033	HB+D-CIV-CIV-OND-0141	Pollution Pond Upgrade - Final Backfilled Surface	AB	Mar. 20, 2012	AB 2011	IFC, Oct. 26, 2011	Rev. 0, Aug. 19, 2011			
DN-DMC-034	HB+D-CIV-CIV-OND-0142	Pollution Pond Upgrade - Excavation Surface	AB	Mar. 20, 2012	AB 2011	IFC, Aug. 19, 2011				
DN-DMC-035	HB+D-CIV-CIV-OND-0143	Pollution Pond Excavation Sections	AB	Mar. 20, 2012	AB 2011	IFC, Aug. 19, 2011				
DN-DMC-036	HB+D-CIV-CIV-OND-0144	Pollution Pond Upgrade - Liner Extension Surface	AB	Mar. 20, 2012	AB 2011	IFC, Aug. 19, 2011				
DN-DMC-037	HB+D-CIV-CIV-OND-0145	Pollution Pond Upgrade - Overliner (Crush) Surface	AB	Mar. 20, 2012	AB 2011	IFC, Aug. 19, 2011				
DN-DMC-038	HB+D-CIV-CIV-OND-0146	Pollution Pond Upgrade - Final Surface w. Stake Out Points	AB	Mar. 20, 2012	AB 2011	IFC, Aug. 19, 2011				
DN-DMC-039	HB+D-CIV-CIV-OND-0147	Pollution Pond Sections & Details w. Liner Installed and Backfilled	AB	Mar. 20, 2012	AB 2011	IFC, Jun. 20, 2011	Rev. 0, Aug. 19, 2011			
DN-DMC-040	HB+D-CIV-CIV-OND-0148	Pollution Pond Stake Out Point Tables	0	Aug. 19, 2011	IFC					
DN-DMC-041	HB+D-CIV-CIV-OND-0149	Sedimentation Pond Upgrade - Final Surface	AB	Mar. 20, 2012	AB 2011	IFC, Oct. 26, 2011	Rev. 0, Aug. 25, 2011			
DN-DMC-042	HB+D-CIV-CIV-OND-0150	Sedimentation Pond Upgrade - Excavation Surface	AB	Mar. 20, 2012	AB 2011	IFC, Aug. 25, 2011				
DN-DMC-043	HB+D-CIV-CIV-OND-0151	Sedimentation Pond Upgrade - Liner Surface	AB	Mar. 20, 2012	AB 2011	IFC, Aug. 25, 2011				
DN-DMC-044	HB+D-CIV-CIV-OND-0152	Sedimentation Pond Sections and Details	AB	Mar. 20, 2012	AB 2011	IFC, Oct. 26, 2011	Rev. 0, Aug. 25, 2011			
DN-DMC-045	HB+D-CIV-CIV-OND-0153	Doris Camp Sump Locations	0	Aug. 26, 2011	IFC					
DN-DMC-046	HB+D-CIV-CIV-OND-0154	Doris Camp Sump Section and Details	1	Oct. 13, 2011	IFC	Rev. 0, Sept. 20, 2011	Rev. A, Aug. 26, 2011			
DN-DMC-047	HB+D-CIV-CIV-OND-0163	Ground Temperature Cable Section and Details	A	Nov. 23, 2011	IFR					

HOPE BAY MINING LTD.

srk consulting

PROJECT NO: 1CH008.033
ISSUED FOR CONSTRUCTION
REVISION AB, March 20, 2012
DN-DMC-00 / HB+D-CIV-CIV-OND-0039

J:\01_SITES\Hope Bay\ACAD\2011 Drawings\Doris Camp\Sedimentation Pond\As-builts\DN-DMC-00_Cover Page-III.dwg



LEGEND

- New Ponds and Raised Road
- Stake-out Point
- Existing Buildings
- Safety Berms (See Typical Berm Barrier Options Detail on Dwg DN-DMC-03)
- As-built Crest
- As-built Toe
- As-built Spillway Culvert Alignment

REFERENCES

1. For detailed road alignment refer to Engineering Drawings for the Doris North Secondary Road, Doris North Project, Nunavut, Canada, SRK 20102011.
2. For detailed road alignment refer to Engineering Drawings for the Doris-Windy All Weather Road, Doris Infrastructure Project, Nunavut, Canada, SRK 2010/2011.
3. For detailed design refer to Engineering drawings from the Laydown Pad Expansions, Doris North Project, Nunavut, Canada, SRK 2010/2011.

0 5 10 15 20 25
Scale in Metres

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
–	–		

REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
AB	AS-BUILT	JK	LW	20Mar12
1	SED POND EDITS	JBK	EMR	20JUN11
0	ISSUED FOR CONSTRUCTION	LW	EMR	29SEP10
A	ISSUED FOR REVIEW	LW	EMR	28JUL10

REVISIONS

PROFESSIONAL ENGINEERS STAMP

srk consulting

DESIGN: MK/JK	DRAWN: MDDS/BFM	REVIEWED: LW
CHECKED: JK/MMM	APPROVED: EMR	DATE: Mar. 20, 2012

FILE NAME: DN-DMC-010-AB.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LIMITED

SRK JOB NO.: 1CH008.033/.058 SRK DWG NO.: DN-DMC-010

DORIS NORTH PROJECT

DRAWING TITLE:
Sedimentation and Pollution Control Ponds Grading Plan

NEWMONT DRAWING NO.	SHEET	REVISION NO.
HB+D-CIV-CIV-OND-0070	11 OF 33	AB

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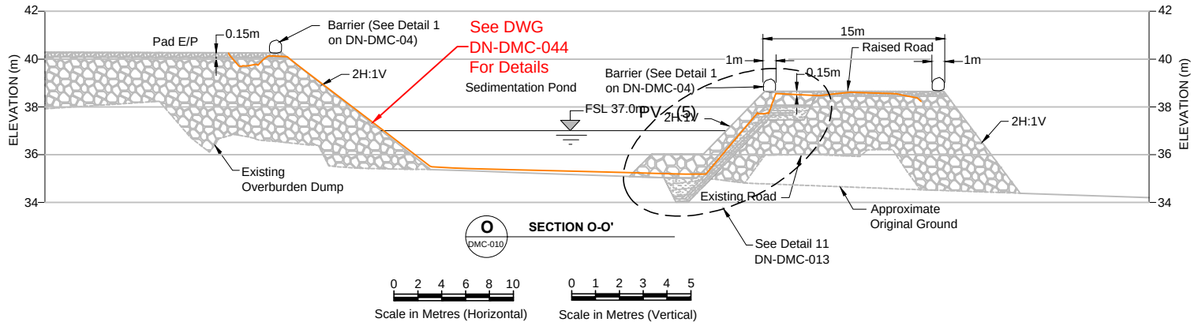

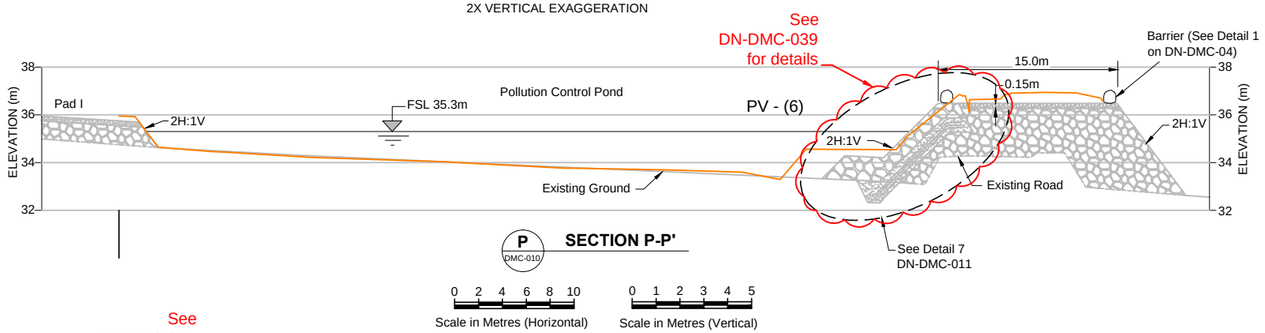

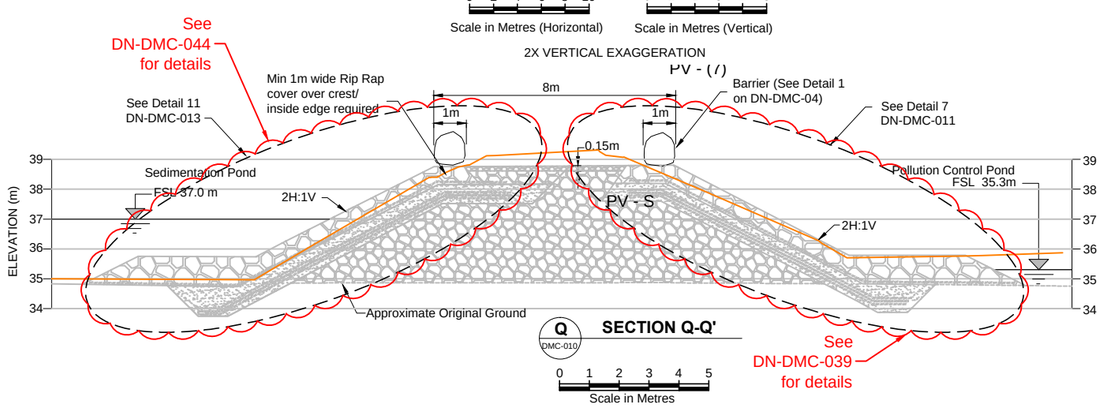

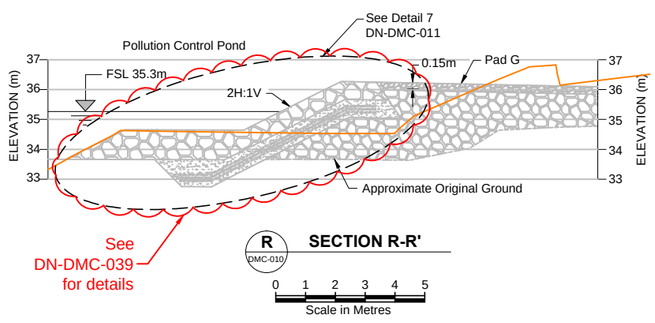

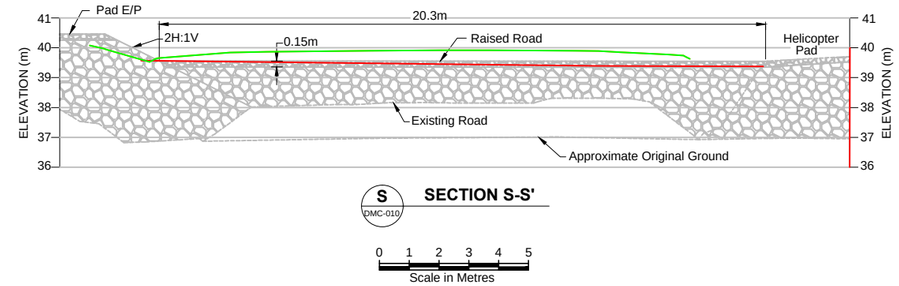

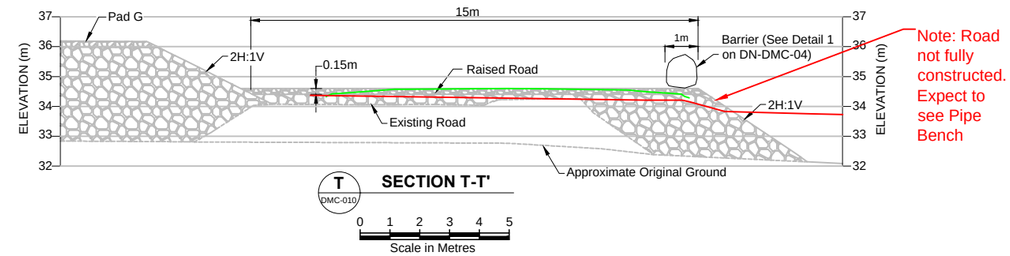

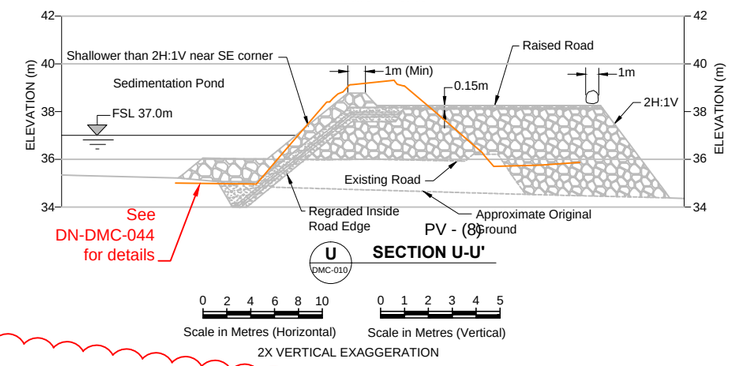

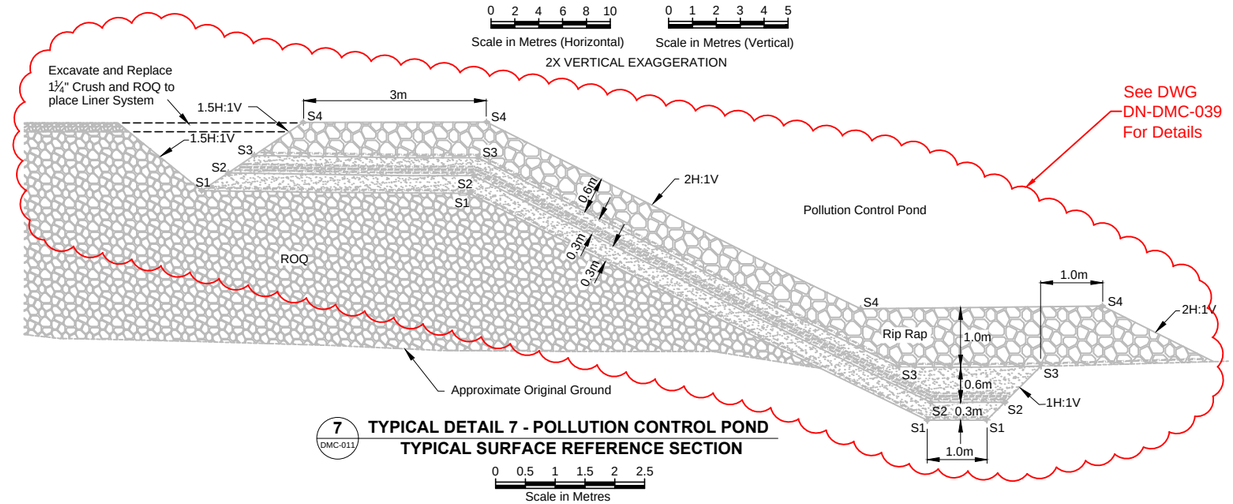

LEGEND

- ¾" Crushed Material
- 1 ¼" Crushed Material
- Run of Quarry Material
- Rip Rap
- Existing ground surface
- Textured 60 mil HDPE Liner
- 12 oz. Non-woven Geotextile
- Surface Stake Out Points
- Final/Top As-built Surface
- As-built Crush (1 1/4")
- As-built ROQ

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
–	–		

REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
AB	AS-BUILT	JK	LW	20MAR12
2	SED POND EDITS	JK	EMR	20JUN11
1	MINOR TEXT EDITS	LW	EMR	14FEB11
0	ISSUED FOR CONSTRUCTION	LW	EMR	29SEP10
A	ISSUED FOR REVIEW	LW	EMR	28JUL10

REVISIONS

PROFESSIONAL ENGINEERS STAMP

srk consulting

DESIGN: MK/IM	DRAWN: MDDS/BFM	REVIEWED: LW
CHECKED: JK/MMM	APPROVED: EMR	DATE: Mar. 20, 2012

FILE NAME: DN–DMC–010–AB.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LIMITED

SRK JOB NO.: 1CH008.033/.058 SRK DWG NO.: DN-DMC-011

DORIS NORTH PROJECT

DRAWING TITLE: Sedimentation and Pollution Control Ponds Sections

NEMONT DRAWING NO. HB+D-CIV-CIV-OND-0071 | SHEET 12 OF 33 | REVISION NO. AB

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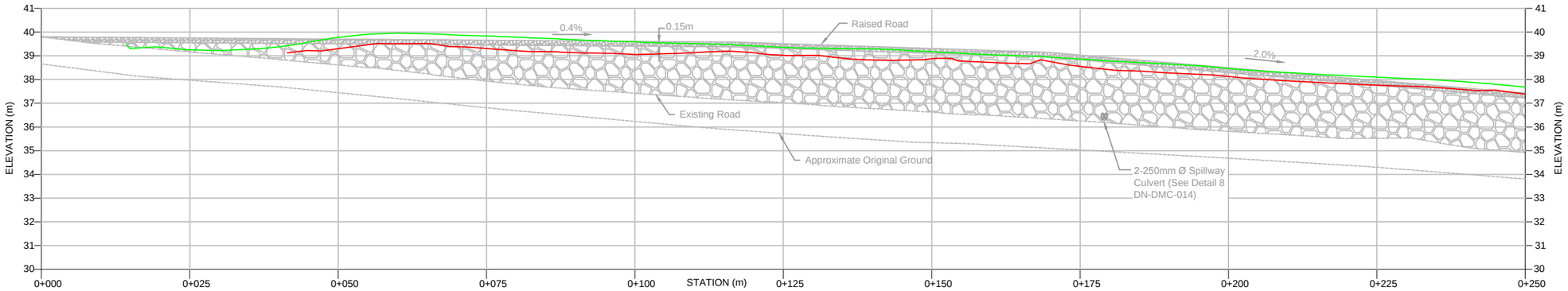
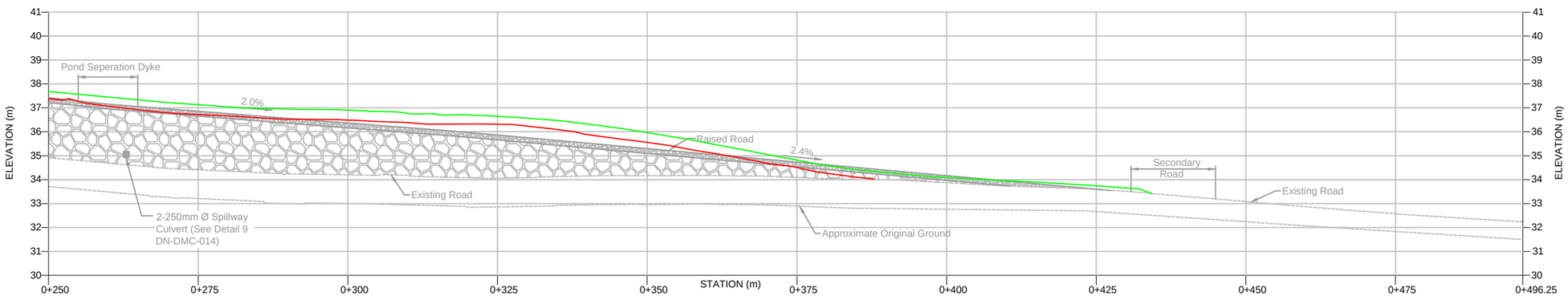


PROFILE ALONG ROAD RAISE (STA. 0+000 to 0+250)

0 4 8 12 16 20 — Scale in Metres (Horizontal)

0 1 2 3 4 5 — Scale in Metres (Vertical)

4X VERTICAL EXAGGERATION



PROFILE ALONG ROAD RAISE (STA. 0+250 to 0+496.25)

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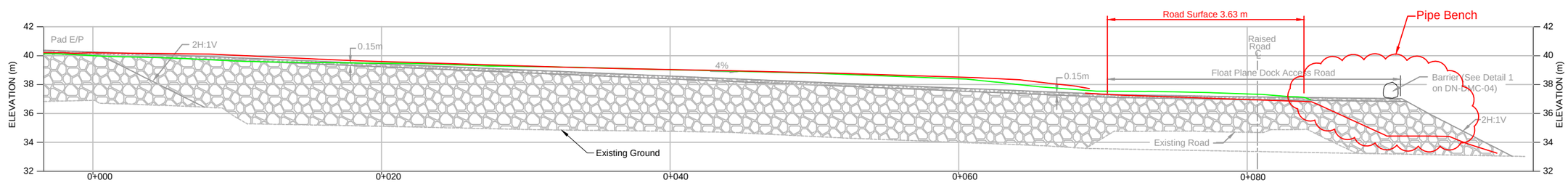
0 1 2 3 4 5 — Scale in Metres (Vertical)

4X VERTICAL EXAGGERATION



PROFILE ALONG POND SEPARATION DYKE

0 1 2 3 4 5 — Scale in Metres

Notes

1. All dimensions in meters unless noted otherwise.
2. All work is to be set out prior to the start of any construction, according to the Stake Out tables provided. Should there be any difference between the coordinates provided and the field location, the Engineer is to be notified immediately.
3. Prior to placement of any construction material, the receiving surface must be free of snow and ice.
4. The engineer must approve all surfaces prior to placement of any construction material.
5. An appropriately qualified subcontractor must install the liner in accordance with standard procedures. The Liner subcontractor must supply the Engineer with a Quality Assurance protocol.
6. The Contractor will inform the Owner and Engineer in advance of any specialist subcontractor and/or technicians that will be subcontracted to out specialized works. The Owner must approve all such subcontractors.
7. Geotextile overlaps shall be at least 500 mm if not sewed or heat bonded. If sewing or heat bonding is used the overlap can be reduced to 200 mm.
8. The Contractor will be responsible to store and handle on site liner and geotextile in accordance with manufacturers specifications.
9. Due care must be taken when placing fill material such that no damage occurs to the HDPE liner and/or geotextile. Any damage must be immediately reported to the Engineer.
10. Where the thickness of the road is greater than 3.0m allow for the placement of barriers.
11. The barriers are to consist of boulders larger than 1m in diameter, jersey-barriers (1.82 long X 1.37m high X 0.61m wide) or a rock fill berm 0.5m high. Maximum spacing between barriers is 3.3m.
12. Notes in this drawing apply to all other active drawings

LEGEND

- Existing ground surface
- 1½" Crushed Material
- Run of Quarry Material
- As-built Crush (1 1/4")
- As-built ROQ

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
–	–		

REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
AB	AS BUILT	MMM	LW	20MAR12
0	ISSUED FOR CONSTRUCTION	LW	EMR	29SEP10
A	ISSUED FOR REVIEW	LW	EMR	28JUL10

REVISIONS

PROFESSIONAL ENGINEERS STAMP

srk consulting

DESIGN: MK	DRAWN: MDDS	REVIEWED: EMR
CHECKED: MMM	APPROVED: EMR	DATE: Mar. 20, 2012

FILE NAME: DN–DMC–010.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LIMITED

SRK JOB NO.:1CH008.027/.058 SRK DWG NO.: DN-DMC-012

DORIS NORTH PROJECT

DRAWING TITLE:

Float Plane Dock Access Road and Dyke Profiles

NEMONT DRAWING NO. HB+D-CIV-CIV-OND-0072 | SHEET 13 OF 33 | REVISION NO. AB

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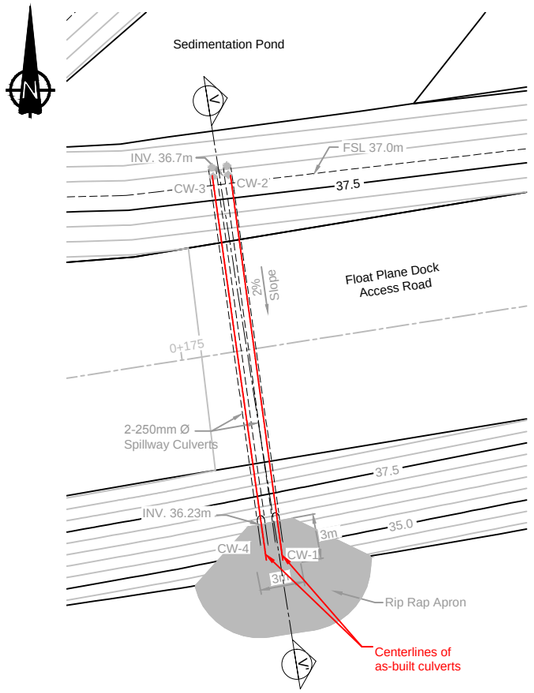
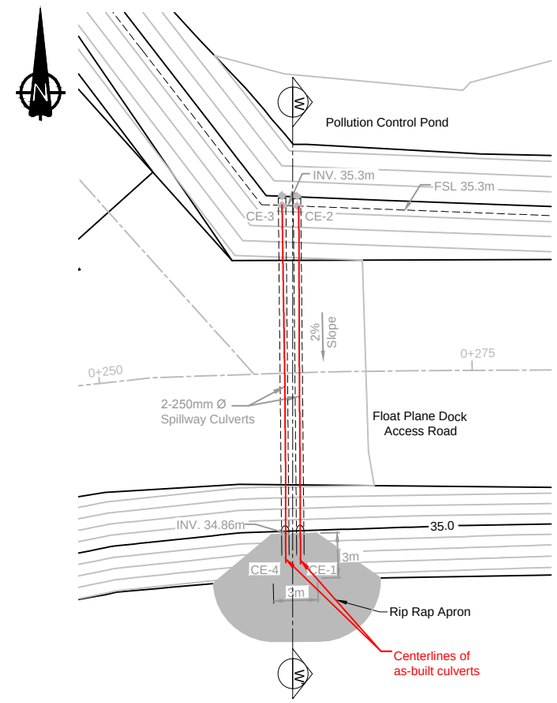


TYPICAL DETAIL 8 - SEDIMENTATION POND SPILLWAY CULVERT

8 DMC-010

0 2 4 6 8 10
Scale in Metres



TYPICAL DETAIL 9 - POLLUTION CONTROL POND SPILLWAY CULVERT

9 DMC-010

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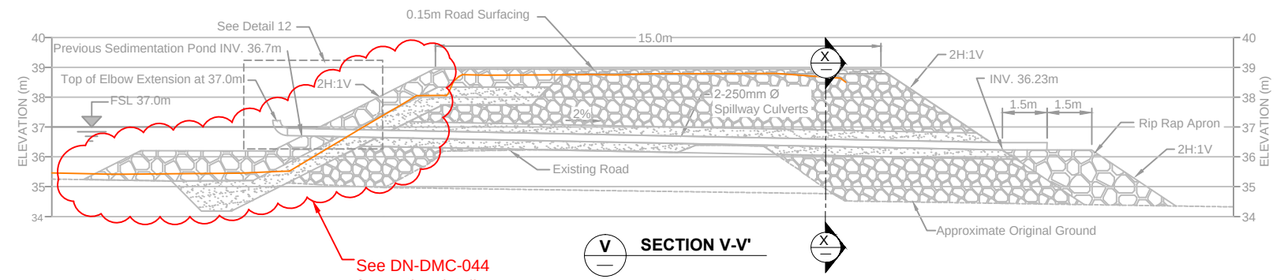
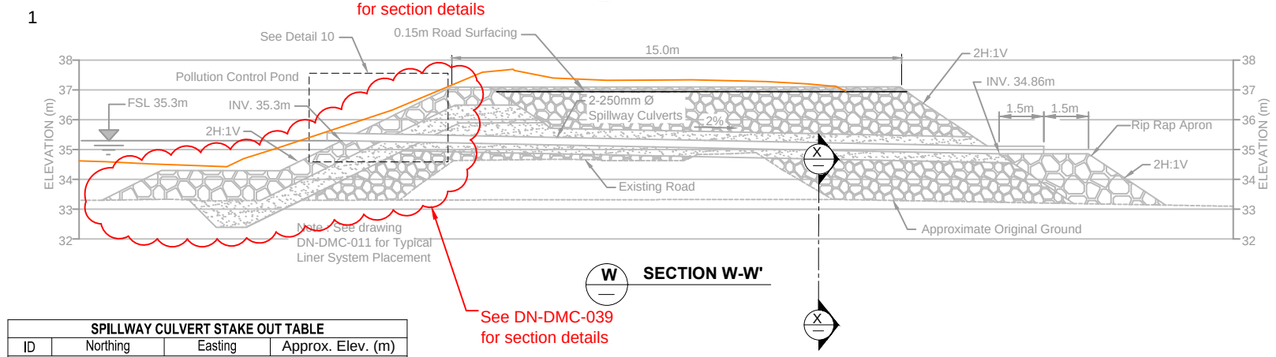
Scale in Metres

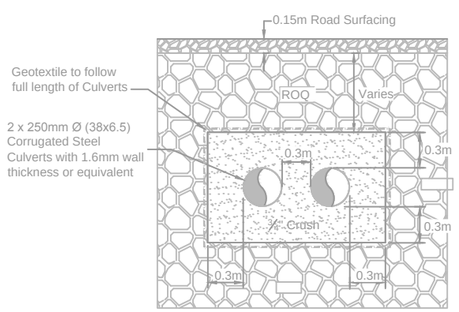


SECTION V-V'



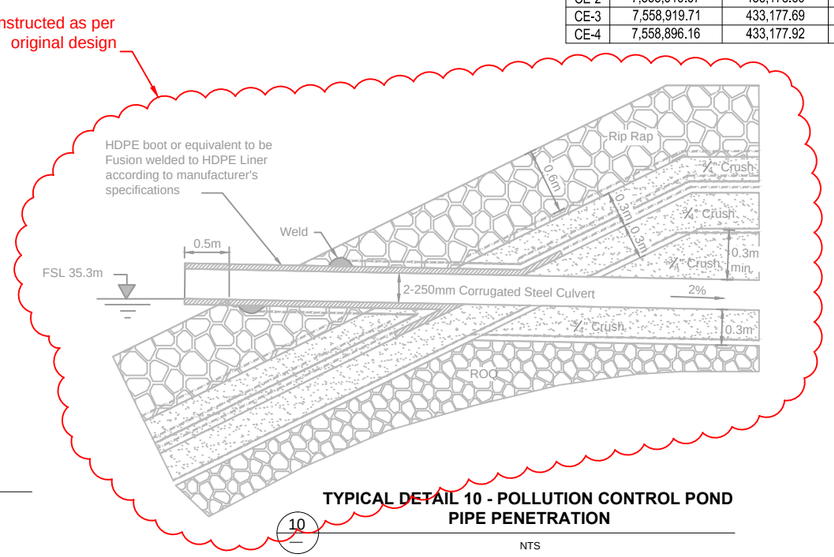
SECTION W-W'

SPILLWAY CULVERT STAKE OUT TABLE			
ID	Northing	Easting	Approx. Elev. (m)
Sedimentation Pond Culvert			
CW-1	7,558,883.65	433,097.91	36.20
CW-2	7,558,908.36	433,094.49	36.71
CW-3	7,558,908.25	433,093.49	36.71
CW-4	7,558,883.45	433,096.93	36.20
Pollution Control Pond Culvert			
CE-1	7,558,896.19	433,178.92	34.83
CE-2	7,558,919.67	433,178.69	35.31
CE-3	7,558,919.71	433,177.69	35.31
CE-4	7,558,896.16	433,177.92	34.83



SECTION X-X' - CULVERT SECTION

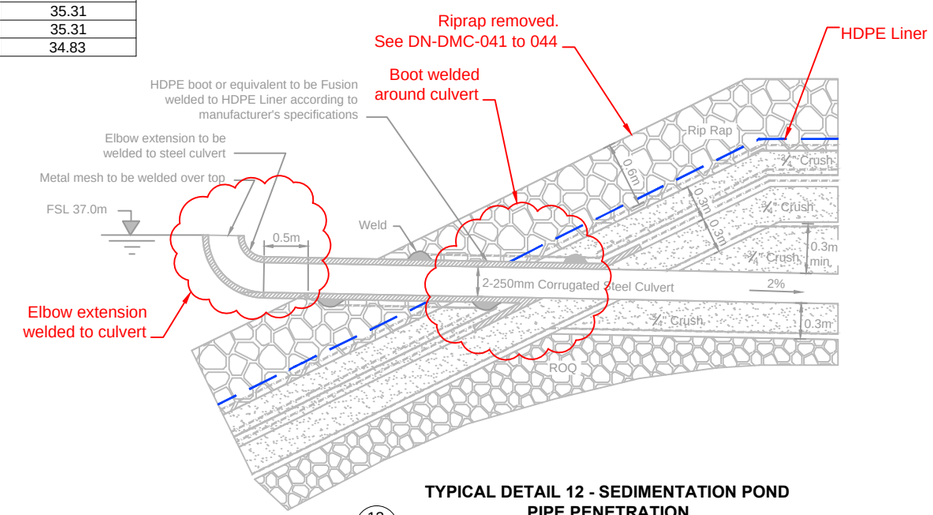
NTS



TYPICAL DETAIL 10 - POLLUTION CONTROL POND PIPE PENETRATION

10

NTS



TYPICAL DETAIL 12 - SEDIMENTATION POND PIPE PENETRATION

12

NTS

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
DMC-010	Sedimentation and Pollution Ponds Grading Plan		

REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
AB	AS-BUILT	MMM	LW	20MAR12
1	SED POND EDITS	JK	EMR	20JUN11
0	ISSUED FOR CONSTRUCTION	LW	EMR	29SEP10
A	ISSUED FOR REVIEW	LW	EMR	28JUL10

REVISIONS

PROFESSIONAL ENGINEERS STAMP

srk consulting

DESIGN: MK | DRAWN: MDDS | REVIEWED: LW
CHECKED: JK/MMM | APPROVED: EMR | DATE: Mar. 20, 2012
FILE NAME: DN-DMC-010-AB.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LIMITED

SRK JOB NO.: 1CH008.033/.058 | SRK DWG NO.: DN-DMC-014

DORIS NORTH PROJECT

DRAWING TITLE: Sedimentation and Pollution Control Pond Typical Details

NEMONT DRAWING NO.: HB+D-CIV-CIV-OND-0080 | SHEET: 15 OF 33 | REVISION NO.: AB

J:\01_SITES\Hope Bay\(ACAD)\2011 Drawings\Doris Camp\Sedimentation Pond\As-builts\DN-DMC-010-AB.dwg

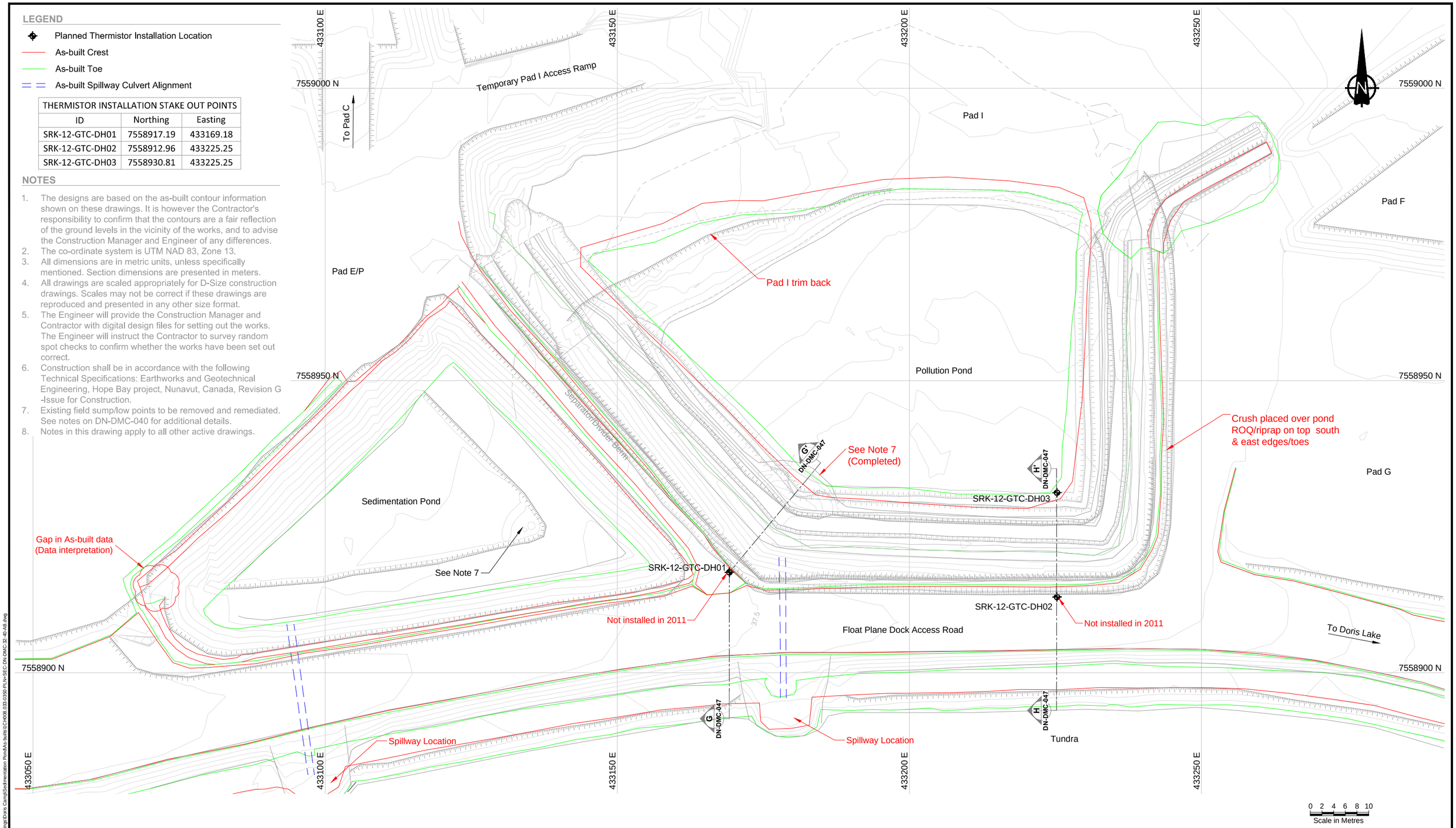
LEGEND

- Planned Thermistor Installation Location
- As-built Crest
- As-built Toe
- As-built Spillway Culvert Alignment

THERMISTOR INSTALLATION STAKE OUT POINTS		
ID	Northing	Easting
SRK-12-GTC-DH01	7558917.19	433169.18
SRK-12-GTC-DH02	7558912.96	433225.25
SRK-12-GTC-DH03	7558930.81	433225.25

NOTES

1. The designs are based on the as-built contour information shown on these drawings. It is however the Contractor's responsibility to confirm that the contours are a fair reflection of the ground levels in the vicinity of the works, and to advise the Construction Manager and Engineer of any differences.
2. The co-ordinate system is UTM NAD 83, Zone 13.
3. All dimensions are in metric units, unless specifically mentioned. Section dimensions are presented in meters.
4. All drawings are scaled appropriately for D-Size construction drawings. Scales may not be correct if these drawings are reproduced and presented in any other size format.
5. The Engineer will provide the Construction Manager and Contractor with digital design files for setting out the works. The Engineer will instruct the Contractor to survey random spot checks to confirm whether the works have been set out correct.
6. Construction shall be in accordance with the following Technical Specifications: Earthworks and Geotechnical Engineering, Hope Bay project, Nunavut, Canada, Revision G -Issue for Construction.
7. Existing field sump/low points to be removed and remediated. See notes on DN-DMC-040 for additional details.
8. Notes in this drawing apply to all other active drawings.



DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
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REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
AB	AS-BUILT	JK	LW	20MAR12
1	GROUND TEMPERATURE CABLE	LW	EMR	23NOV11
0	ISSUED FOR CONSTRUCTION	JBK	EMR	19AUG11

REVISIONS

This drawing is uncontrolled when printed unless stamped and signed with original ink and recorded on a Distribution Register.

PROFESSIONAL ENGINEERS STAMP

srk consulting

DESIGN: LW	DRAWN: NV/DJ	REVIEWED: EMR
CHECKED: LW/JK/MMM	APPROVED: EMR	DATE: Mar. 20, 2012

FILE NAME: 1CH008.033-0350-PLN+SEC-DN-DMC-32-40-AB.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LIMITED

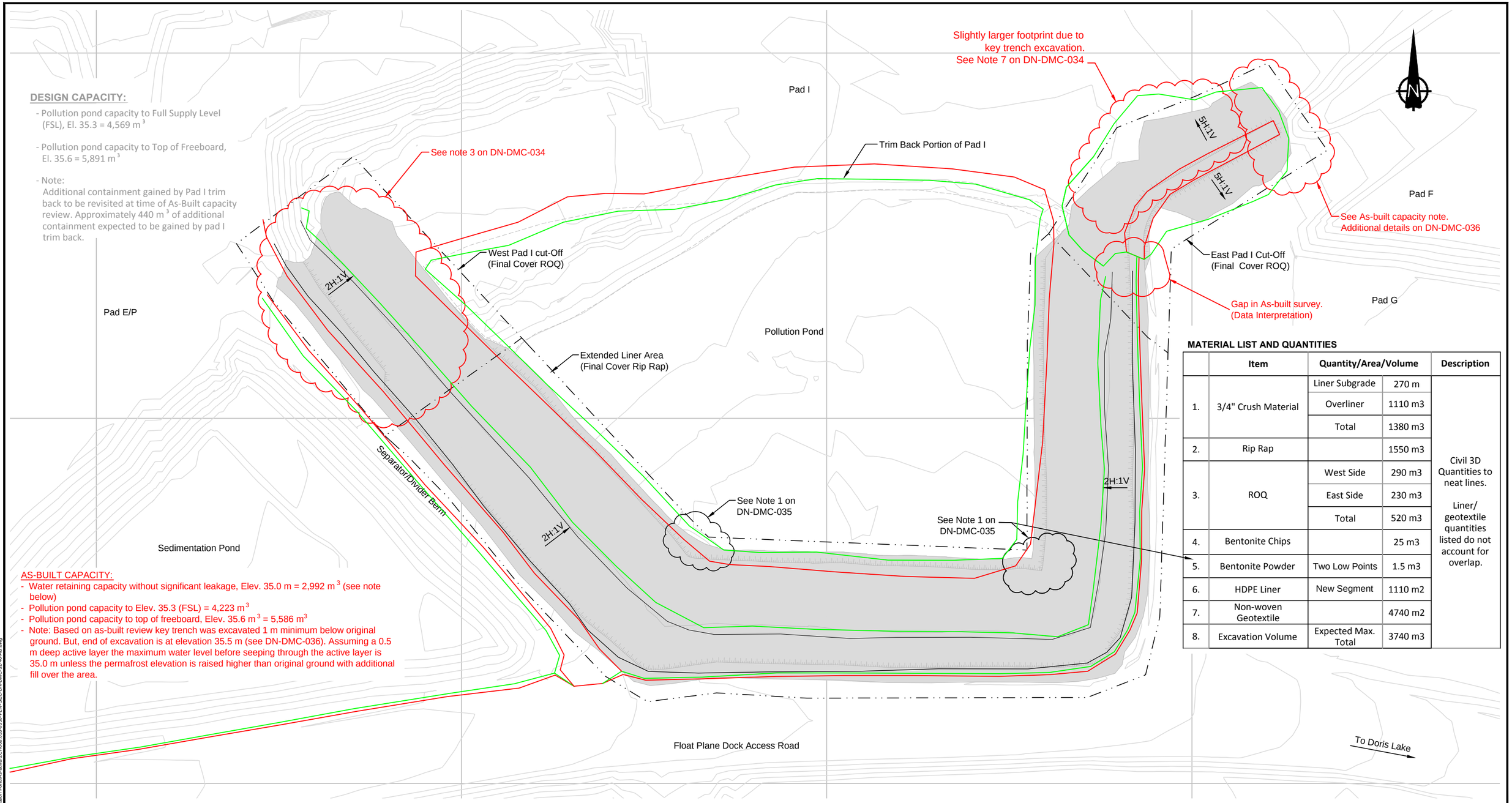
SRK JOB NO.: 1CH008.033/.058 SRK DWG NO.: DN-DMC-032

DORIS NORTH PROJECT

DRAWING TITLE: Existing Sedimentation and Pollution Pond General Arrangement

DRAWING NO. HB+D-CIV-CIV-OND-0140 | SHEET 34 OF 48 | REVISION NO. AB

J:\01_SITES\Hope Bay\ACAD\2011 Drawings\Doris Camp\Sedimentation Pond\As-built\1CH008.033-0350-PLN+SEC-DN-DMC-32-40-AB.dwg



DESIGN CAPACITY:

- Pollution pond capacity to Full Supply Level (FSL), El. 35.3 = 4,569 m^3
- Pollution pond capacity to Top of Freeboard, El. 35.6 = 5,891 m^3
- Note:
  Additional containment gained by Pad I trim back to be revisited at time of As-Built capacity review. Approximately 440 m^3 of additional containment expected to be gained by pad I trim back.

AS-BUILT CAPACITY:

- Water retaining capacity without significant leakage, Elev. 35.0 m = 2,992 m^3 (see note below)
- Pollution pond capacity to Elev. 35.3 (FSL) = 4,223 m^3
- Pollution pond capacity to top of freeboard, Elev. 35.6 m^3 = 5,586 m^3
- Note: Based on as-built review key trench was excavated 1 m minimum below original ground. But, end of excavation is at elevation 35.5 m (see DN-DMC-036). Assuming a 0.5 m deep active layer the maximum water level before seeping through the active layer is 35.0 m unless the permafrost elevation is raised higher than original ground with additional fill over the area.

MATERIAL LIST AND QUANTITIES

	Item	Quantity/Area/Volume		Description
1.	3/4" Crush Material	Liner Subgrade	270 m	Civil 3D Quantities to neat lines. Liner/ geotextile quantities listed do not account for overlap.
		Overliner	1110 m3	
		Total	1380 m3	
2.	Rip Rap		1550 m3	
3.	ROQ	West Side	290 m3	
		East Side	230 m3	
		Total	520 m3	
4.	Bentonite Chips		25 m3	
5.	Bentonite Powder	Two Low Points	1.5 m3	
6.	HDPE Liner	New Segment	1110 m2	
7.	Non-woven Geotextile		4740 m2	
8.	Excavation Volume	Expected Max. Total	3740 m3	

LEGEND

- Final Cover Surface
- As-built Crest
- As-built Toe
- As-built Spillway Culvert Alignment

0 2 4 6 8 10
Scale in Metres

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
–	–		

REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
AB	As-built	JBK	LW	20MAR12
0	ISSUED FOR CONSTRUCTION	JBK	EMR	19AUG11

REVISIONS

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CHECKED: JBK/MMM	APPROVED: EMR	DATE: Mar. 20, 2012

FILE NAME: 1CH008.033-0350-PLN+SEC-DN-DMC-32-40-AB.dwg

NEWMONT. NORTH AMERICA

HOPE BAY MINING LIMITED

SRK JOB NO.: 1CH008.033/.058 SRK DWG NO.: DN-DMC-033

DORIS NORTH PROJECT

DRAWING TITLE: Pollution Pond Upgrade - Final Backfilled Surface

DRAWING NO. HB+D-CIV-CIV-OND-0141 | SHEET 35 OF 42 | REVISION NO. AB

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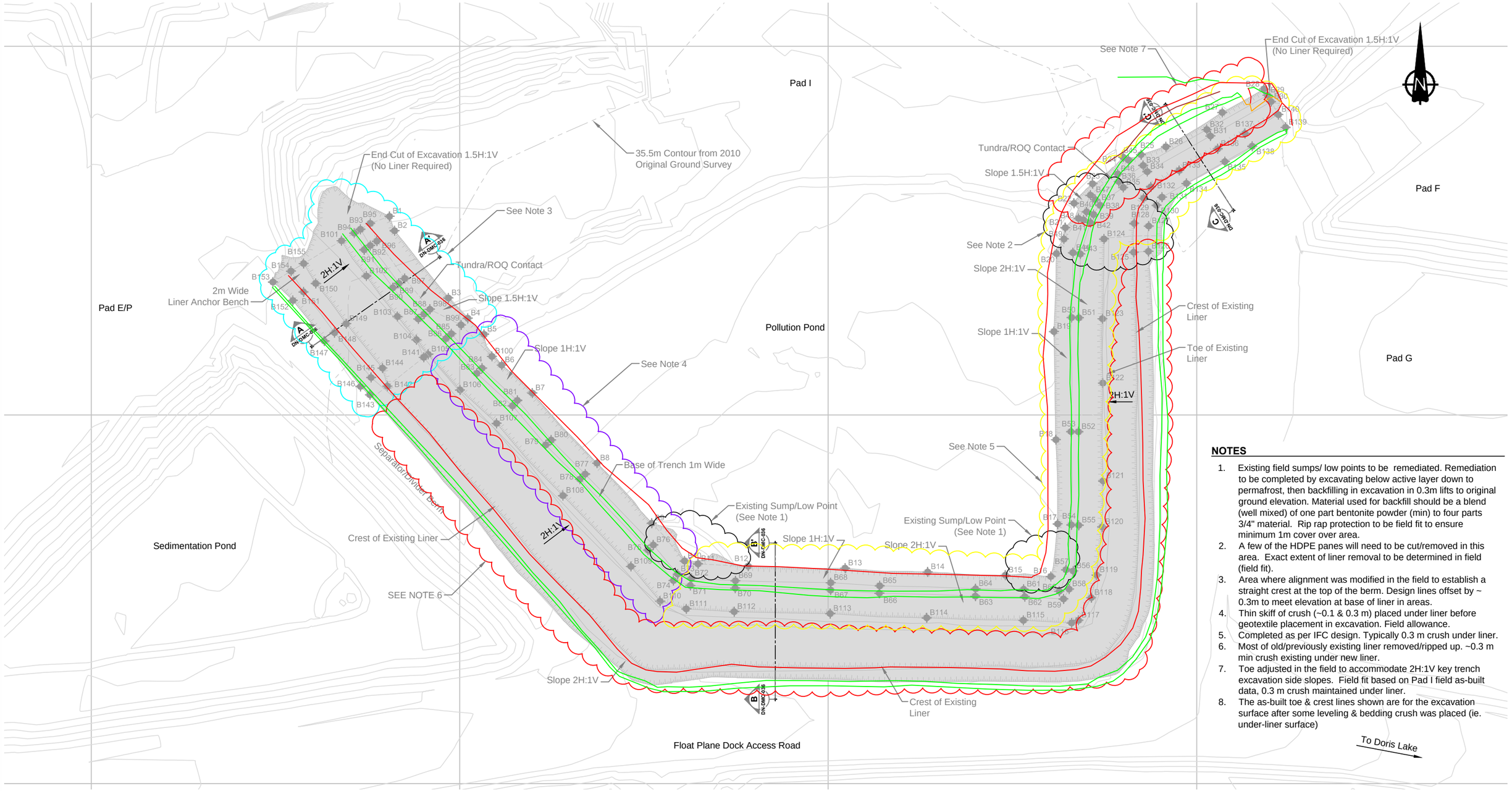

NOTES

1. Existing field sumps/ low points to be remediated. Remediation to be completed by excavating below active layer down to permafrost, then backfilling in excavation in 0.3m lifts to original ground elevation. Material used for backfill should be a blend (well mixed) of one part bentonite powder (min) to four parts 3/4" material. Rip rap protection to be field fit to ensure minimum 1m cover over area.
2. A few of the HDPE panes will need to be cut/removed in this area. Exact extent of liner removal to be determined in field (field fit).
3. Area where alignment was modified in the field to establish a straight crest at the top of the berm. Design lines offset by ~ 0.3m to meet elevation at base of liner in areas.
4. Thin skiff of crush (~0.1 & 0.3 m) placed under liner before geotextile placement in excavation. Field allowance.
5. Completed as per IFC design. Typically 0.3 m crush under liner.
6. Most of old/previously existing liner removed/ripped up. ~0.3 m min crush existing under new liner.
7. Toe adjusted in the field to accommodate 2H:1V key trench excavation side slopes. Field fit based on Pad I field as-built data, 0.3 m crush maintained under liner.
8. The as-built toe & crest lines shown are for the excavation surface after some leveling & bedding crush was placed (ie. under-liner surface)

LEGEND

- Excavation Surface
- Existing Liner beneath Excavation
- B1 Stake Out Point (See Dwg DN-DMC-036 for Stakeout Table)

0 2 4 6 8 10
Scale in Metres

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
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REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
AB	As-built	JBK	LW	20MAR12
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FILE NAME: 1CH008.033-0350-PLN+SEC-DN-DMC-32-40-AB.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LIMITED

SRK JOB NO.: 1CH008.033/.058 | SRK DWG NO.: DN-DMC-034

DORIS NORTH PROJECT

DRAWING TITLE: Pollution Pond Upgrade - Excavation Surface

DRAWING NO. HB+D-CIV-CIV-OND-0142 | SHEET 36 OF 42 | REVISION NO. AB

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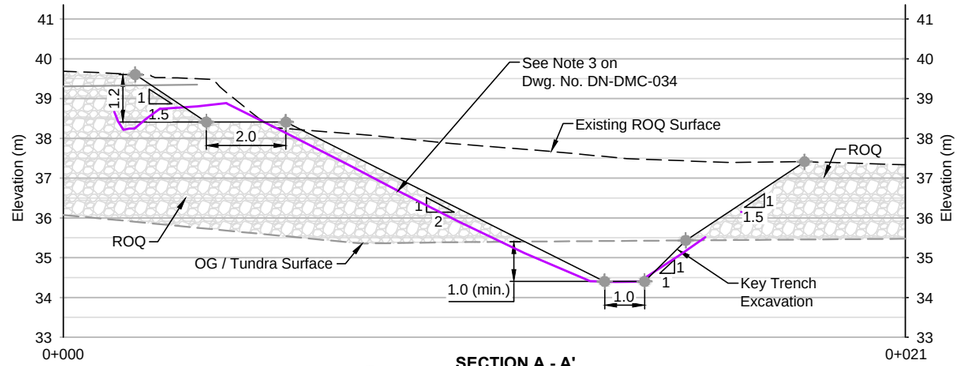
NOTES

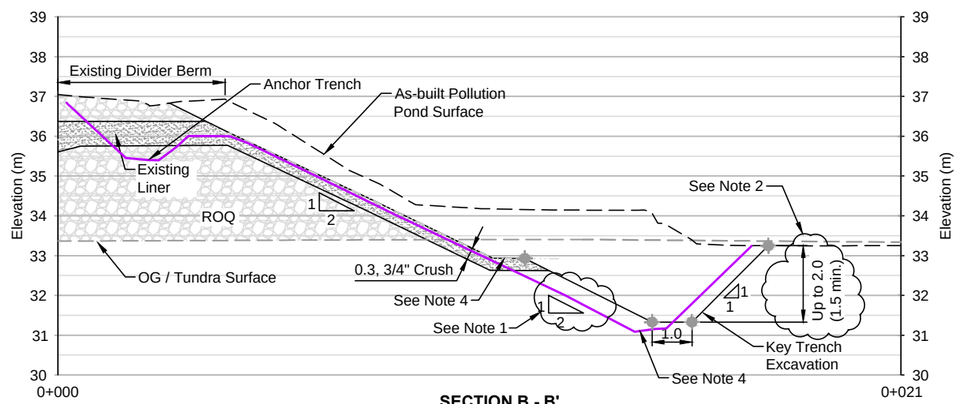
1. The excavation slope in the tundra/permafrost may be steepened based on site conditions and safety considerations. The 2H:1V excavation slope has been shown for conservatism. Excavation/trench slope steepening will be reassessed in the field and guidance will be provided by on site engineer. If possible slopes will be steepened to minimize footprint of permafrost disturbance.A minimum slope of 1H:1V and a maximum slope of 2H:1V is expected.
2. The liner/key trench excavation depth is required to go 0.5m into permafrost. Based on site reconnaissance, excavation depths are expected to be typically 1.5m with select areas up to 2m in depth. Excavation depth into permafrost to be determined/confirmed by on site field engineer. The maximum 2m excavation depth has been modelled to show maximum expected excavation footprint (ie. expected to have a smaller as-built than design footprint).
3. All dimensions shown in meters unless otherwise noted.
4. Liner alignment offset as all new liner was placed rather than tying into existing liner, slight bench eliminated in areas.

LEGEND

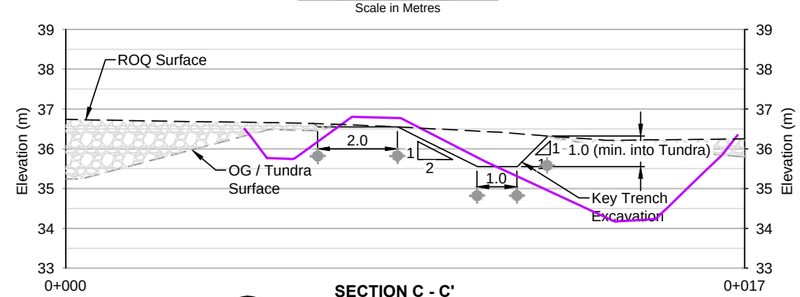
- 3/4" Crush Material
- Bentonite Chips
- Rip Rap
- Run of Quarry Material
- Liner System
- Existing HDPE Liner
- HDPE Liner Extension
- Non-Woven Geotextile
- Stake Out Point
- As-built Excavation



SECTION A - A'
EXCAVATION SURFACE
A DN-DMC-034
0 1 2 3 4 5
Scale in Metres



SECTION B - B'
EXCAVATION SURFACE
B DN-DMC-034
0 1 2 3 4 5
Scale in Metres



SECTION C - C'
EXCAVATION SURFACE
C DN-DMC-034
0 1 2 3 4 5
Scale in Metres

EXCAVATION STAKE OUT POINTS			
ID	Northing	Easting	Elevation
B1	7558976.94	433140.48	37.52
B2	7558974.99	433141.16	37.47
B3	7558965.86	433148.47	37.26
B4	7558963.12	433151.09	36.13
B5	7558960.94	433153.31	36.07
B6	7558956.76	433155.71	35.02
B7	7558952.97	433159.85	34.83
B8	7558943.47	433168.63	34.35
B9	7558935.33	433176.06	33.54
B10	7558930.20	433180.51	33.35
B11	7558929.81	433182.34	33.32
B12	7558929.51	433189.15	33.36
B13	7558929.22	433202.30	33.41
B14	7558928.71	433213.50	33.25
B15	7558928.27	433224.04	33.06
B16	7558928.11	433230.21	33.29
B17	7558935.24	433231.13	33.48
B18	7558946.65	433230.90	33.70
B19	7558961.31	433230.63	34.19
B20	7558971.88	433230.97	34.45
B21	7558975.40	433232.17	35.24
B22	7558978.70	433233.35	35.91
B23	7558981.35	433235.86	35.94
B24	7558984.95	433240.03	36.59
B25	7558985.29	433242.45	36.32
B26	7558986.37	433245.83	36.33
B27	7558991.02	433253.47	36.47
B28	7558994.20	433259.13	36.63
B29	7558993.35	433259.61	35.66
B30	7558992.48	433260.10	35.66
B31	7558987.83	433251.87	35.52
B32	7558988.70	433251.37	35.52
B33	7558983.84	433242.74	34.87
B34	7558983.00	433243.29	34.87
B35	7558980.84	433240.03	34.46
B36	7558981.65	433239.43	34.46
B37	7558979.20	433236.24	34.36
B38	7558978.44	433236.90	34.36
B39	7558977.19	433236.01	34.35
B40	7558977.55	433235.07	34.35
B41	7558976.45	433234.65	34.32
B42	7558976.09	433235.59	34.32
B43	7558971.83	433234.21	32.19
B44	7558972.00	433233.21	32.22
B45	7558984.57	433240.75	36.11
B46	7558982.68	433239.29	35.39
B47	7558979.81	433235.58	35.26
B48	7558976.66	433233.98	35.02
B49	7558973.86	433231.99	34.58
B50	7558963.21	433233.02	31.93
B51	7558963.18	433234.02	31.93
B52	7558947.72	433233.95	31.63
B53	7558947.74	433232.95	31.64
B54	7558935.11	433232.99	31.62
B55	7558935.04	433233.99	31.62
B56	7558928.85	433233.26	31.55
B57	7558929.02	433232.27	31.55
B58	7558926.40	433232.69	31.43
B59	7558925.06	433231.93	31.39
B60	7558926.09	433231.36	31.41
B61	7558926.36	433226.53	31.16
B62	7558925.36	433226.67	31.16
B63	7558925.44	433219.97	31.20
B64	7558926.44	433220.00	31.20
B65	7558926.83	433206.99	31.29
B66	7558925.83	433206.94	31.29
B67	7558926.26	433200.32	31.35
B68	7558927.26	433200.34	31.35
B69	7558927.52	433187.42	31.33
B70	7558926.52	433187.38	31.33
B71	7558926.87	433181.29	31.33
B72	7558927.86	433181.46	31.33
B73	7558928.42	433179.57	31.39
B74	7558927.55	433179.00	31.40
B75	7558931.68	433175.55	31.57
B76	7558932.37	433176.27	31.57
B77	7558941.98	433167.03	32.18
B78	7558941.29	433166.31	32.18
B79	7558945.94	433161.67	32.41
B80	7558946.61	433162.41	32.41
B81	7558951.97	433157.83	32.67
B82	7558951.23	433157.16	32.67
B83	7558955.64	433152.32	32.99
B84	7558956.35	433153.03	32.99
B85	7558961.02	433148.87	33.51
B86	7558960.36	433148.12	33.51
B87	7558963.03	433144.38	34.28
B88	7558963.66	433145.15	34.29
B89	7558967.86	433141.74	34.41
B90	7558967.25	433140.94	34.41
B91	7558972.41	433137.03	34.58
B92	7558972.98	433137.86	34.58
B93	7558975.18	433136.53	34.11
B94	7558974.66	433135.68	34.11
B95	7558975.98	433137.86	35.66
B96	7558973.56	433138.75	35.63
B97	7558968.51	433142.54	35.44
B98	7558964.34	433145.96	35.34
B99	7558962.20	433150.19	35.27
B100	7558957.95	433154.37	35.07
B101	7558973.63	433133.96	35.11
B102	7558968.84	433137.33	35.50
B103	7558963.35	433141.55	35.33
B104	7558960.20	433144.13	35.23
B105	7558958.23	433145.73	35.11
B106	7558953.39	433150.04	34.60
B107	7558948.87	433155.00	34.27
B108	7558939.07	433164.00	33.78
B109	7558929.46	433173.24	33.17
B110	7558924.75	433177.18	33.03
B111	7558923.70	433180.74	32.93
B112	7558923.32	433187.25	32.93
B113	7558923.06	433200.27	32.95
B114	7558922.49	433213.37	32.83
B115	7558922.16	433226.48	32.76
B116	7558921.79	433233.03	32.94
B117	7558922.16	433233.95	32.98
B118	7558925.22	433235.70	33.01
B119	7558928.30	433236.42	33.14
B120	7558934.82	433237.18	33.22
B121	7558941.06	433237.29	33.23
B122	7558954.32	433237.27	33.28
B123	7558963.05	433237.21	33.53
B124	7558973.86	433237.43	33.83
B125	7558972.07	433241.46	35.49
B126	7558972.18	433243.45	35.50
B127	7558975.61	433243.49	35.49
B128	7558975.99	433241.52	35.49
B129	7558979.39	433242.80	35.55
B130	7558978.43	433244.56	35.55
B131	7558979.53	433245.29	35.58
B132	7558980.94	433243.80	35.58
B133	7558983.15	433247.63	36.64
B134	7558981.40	433248.61	36.64
B135	7558984.35	433253.83	36.52
B136	7558986.09	433252.85	36.52
B137	7558988.18	433256.55	36.58
B138	7558986.44	433257.53	36.58
B139	7558988.99	433262.07	36.66
B140	7558990.73	433261.08	36.66
B141	7558957.82	433145.12	35.38
B142	7558953.91	433140.19	38.14
B143	7558952.74	433137.82	39.47
B144	7558956.36	433139.52	38.23
B145	7558955.08	433137.98	38.23
B146	7558953.87	433136.54	39.49
B147	7558960.03	433131.63	39.59
B148	7558961.16	433133.01	38.41
B149	7558962.37	433134.60	38.41
B150	7558967.83	433130.46	38.60
B151	7558966.68	433128.81	38.60
B152	7558965.52	433127.36	39.84
B153	7558968.03	433124.66	40.01
B154	7558969.50	433127.11	38.11
B155	7558970.54	433128.82	38.11

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
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REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
AB	AS-BUILT	JBK	LW	20MAR12
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REVISIONS

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FILE NAME: 1CH008.033-0350-PLN+SEC-DN-DMC-32-40-AB.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LIMITED

SRK JOB NO.:1CH008.033/.058 | SRK DWG NO.: DN-DMC-035

DORIS NORTH PROJECT

DRAWING TITLE: Pollution Pond Excavation Sections

DRAWING NO. HB+D-CIV-CIV-OND-0143 | SHEET 36 OF 42 | REVISION NO. AB

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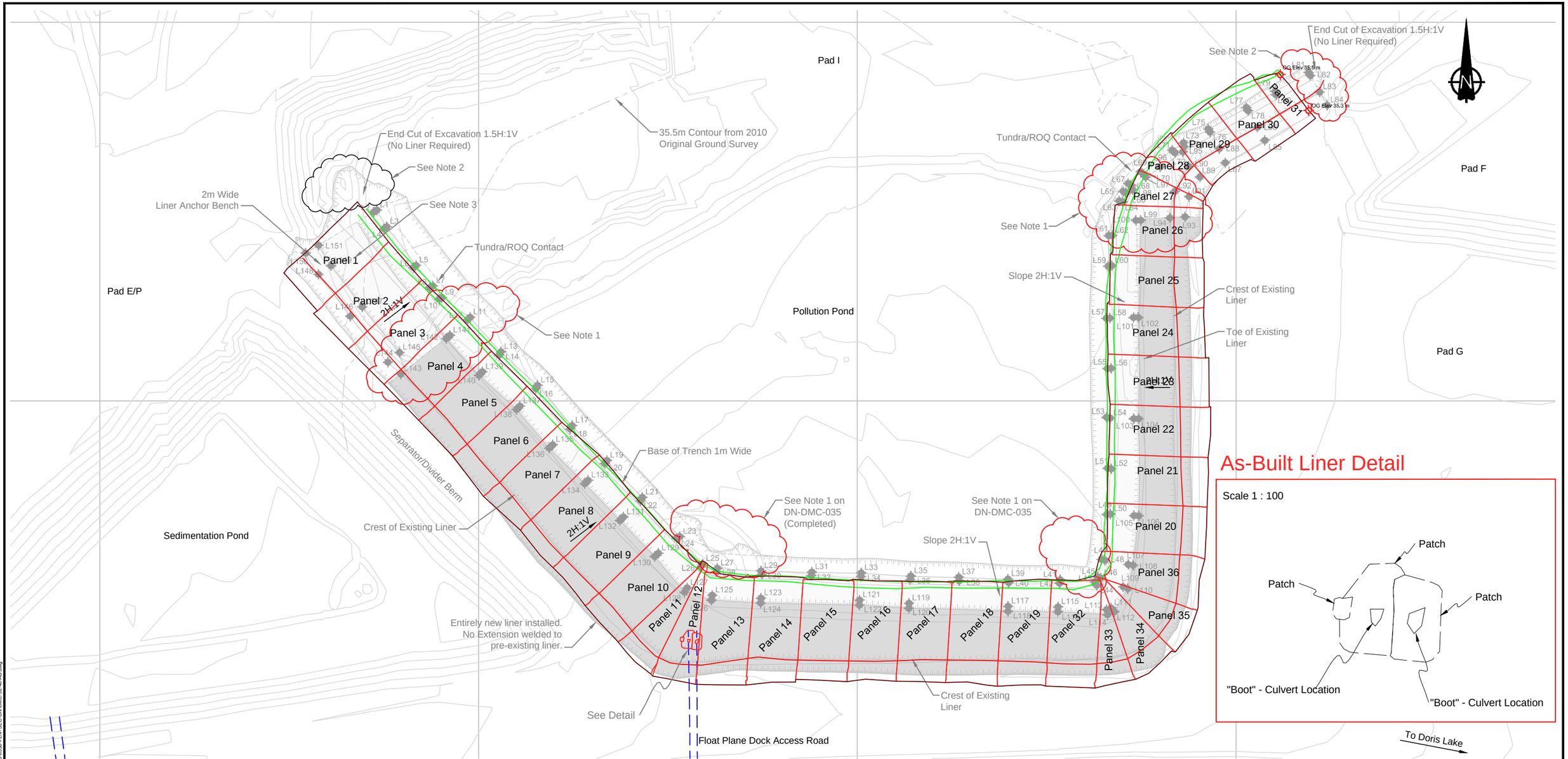

LEGEND

- Extended Liner Surface
- Existing Liner
- Stake Out Point (See Dwg DN-DMC-041 for Stakeout Table)
- As-built Crest
- As-built Toe
- As-built Spillway Culvert Alignment

NOTES

1. A few of the HDPE panes will need to be cut/removed in this area. Exact extent of liner removal to be determined in field (field fit).
2. End of excavation and liner surface to be field fit, if required, to ensure run-off from Pad I is captured. Final side surfaces will be blended to existing as-built.
3. Panels are identified by order of installation.

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
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REFERENCE DRAWINGS

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CHECKED: JBK/MMM	APPROVED: EMR	DATE: Mar. 20, 2012

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NEWMONT NORTH AMERICA

HOPE BAY MINING LIMITED

SRK JOB NO.:1CH008.033/.058 SRK DWG NO.: DN-DMC-036

DORIS NORTH PROJECT

DRAWING TITLE: Pollution Pond Upgrade - Liner Extension Surface

DRAWING NO. HB+D-CIV-CIV-OND-0144 | SHEET 38 OF 42 | REVISION NO. AB

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Pad I

35.5m Contour from 2010 Original Ground Survey

See Note 2 on DN-DMC-037

2m Wide Liner Anchor Bench

Tundra/ROQ Contact

Pad E/P

Pollution Pond

Pad F

Pad G

Sedimentation Pond

Separator/Divider Berm

2H:1V

See Note 1 on DN-DMC-035 (Completed)

See Note 1 on DN-DMC-037

Crest of Existing Liner

Float Plane Dock Access Road

To Doris Lake

LEGEND

- Overliner Surface (3/4" Material)
- Existing Liner
- Stake Out Point (See Dwg DN-DMC-041 for Stakeout Table)
- As-built Crest
- As-built Toe
- As-built Spillway Culvert Alignment
- As-built Edge Keytrench Liner Excavation

0 2 4 6 8 10
Scale in Metres

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
–	–		

REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
AB	AS-BUILT	JBK	LW	20MAR12
0	ISSUED FOR CONSTRUCTION	JBK	EMR	19AUG11

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CHECKED: JBK/MMM	APPROVED: EMR	DATE: Mar. 20, 2012

FILE NAME: 1CH008.033-0350-PLN+SEC-DN-DMC-32-40-AB.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LIMITED

SRK JOB NO.: 1CH008.033/.058 SRK DWG NO.: DN-DMC-037

DORIS NORTH PROJECT

DRAWING TITLE: Pollution Pond Upgrade - Overliner (Crush) Surface

DRAWING NO. HB+D-CIV-CIV-OND-0145 | SHEET 39 OF 42 | REVISION NO. AB

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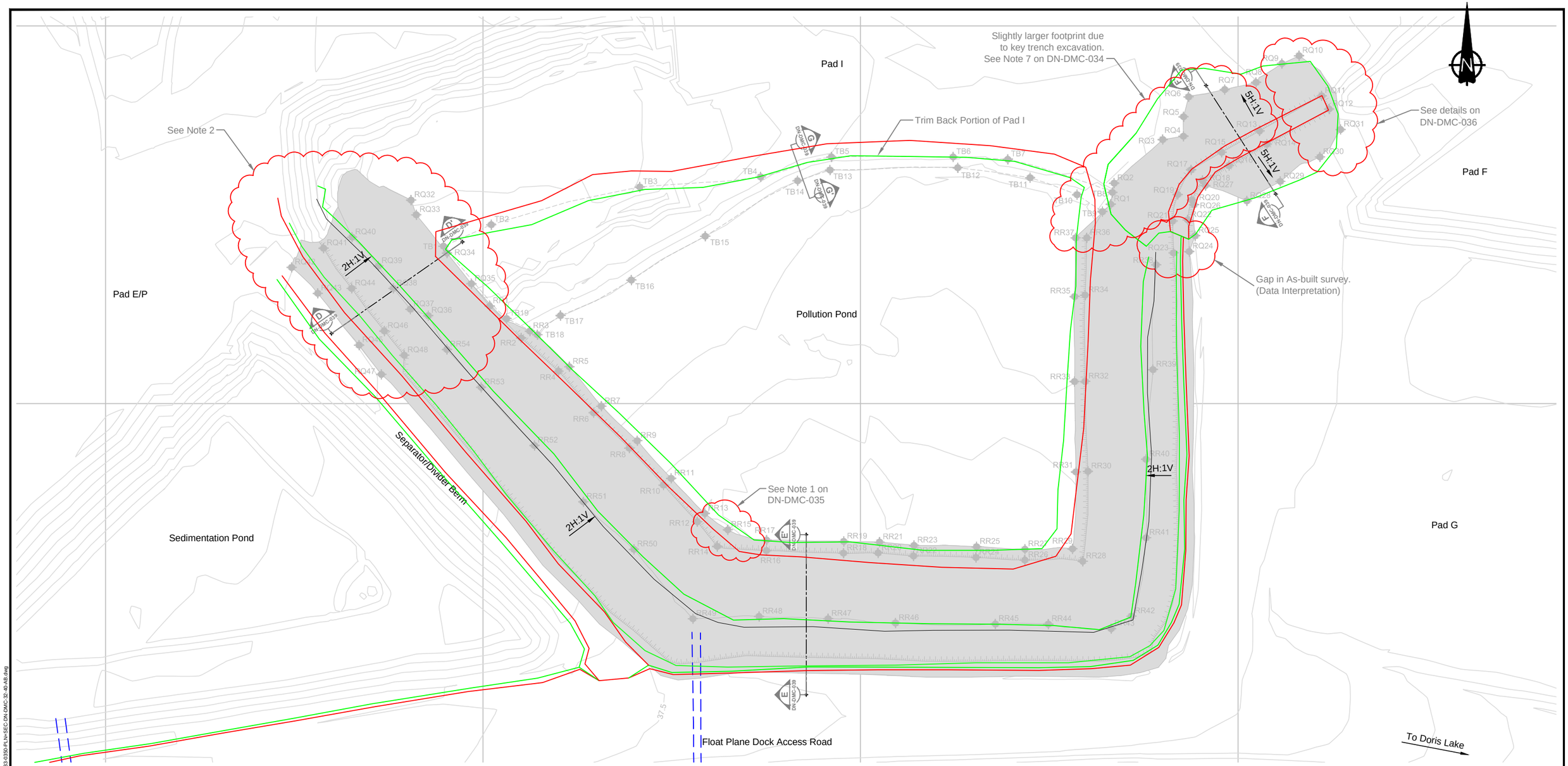

LEGEND

- Final Cover Surface
- Stake Out Point (See Dwg DN-DMC-041 for Stakeout Table)
- As-built Crest
- As-built Toe
- As-built Spillway Culvert Alignment

NOTE

1. 5H:1V ROQ cover may be extended over this area if determined in field that additional material will allow for better/ safer temporary access to Pad I.
2. Area where alignment was modified in the field to establish a straight crest at the top of the berm. Design lines offset by~0.3m to meet elevation at base of liner in areas.

0 2 4 6 8 10
Scale in Metres

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
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REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
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CHECKED: JBK | APPROVED: EMR | DATE: Mar. 20, 2012
FILE NAME: 1CH008.033-0350-PLN+SEC-DN-DMC-32-40-AB.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LIMITED

SRK JOB NO.: 1CH008.033/.058 | SRK DWG NO.: DN-DMC-038

DORIS NORTH PROJECT

DRAWING TITLE: Pollution Pond Upgrade - Final Surface with Stake Out Points

DRAWING NO. HB+D-CIV-CIV-OND-0146 | SHEET 40 OF 42 | REVISION NO. AB

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MATERIAL LIST AND QUANTITIES

	Item	Quantity/ Area/ Volume		Description
1.	~0.2m levelling course	Over OG	330m³	Civil 3D Quantities to neat lines. Liner/geotextile quantities listed fo not accound for overlap
2.	Pad E/P Back Slope 3/4" crush	Min 0.6m wide portion	130m³	
3.	Pad E/P Back Slope 3/4" crush	<0.6m wider portion to blend slope into Pad E/P AB	80m³	
4.	HDPE Liner	New segment	3530m²	
5.	Non-Woven Geotextile		4730m²	
6.	1 1/4" or 3/4" Overliner crush	For horizontal liner on top of Pad E/P	60m²	
7.	Base Insullation	STYROFOAM Highload 40 (2" min)	1800m²	

NOTES

1. Horizontal top liner segment to be covered with 0.15m of 3/4" crush. Edge of Pad E/P, with new liner extension, to be field fit to ensure minimum 0.5% grading of Pad E/P is maintained towards sedimentation pond.
2. The barriers are to consist of boulders larger than 1m in diameter / or a rock fill berm 0.5m high. Maximum spacing between barriers is 1.0m.

DESIGN CAPACITY:

- Sediment pond capacity to Full Supply Level (FSL), El. 37.0 = 3,325 m³
- Sediment pond capacity to Top of Freeboard, El. 37.3 = 4,006 m³

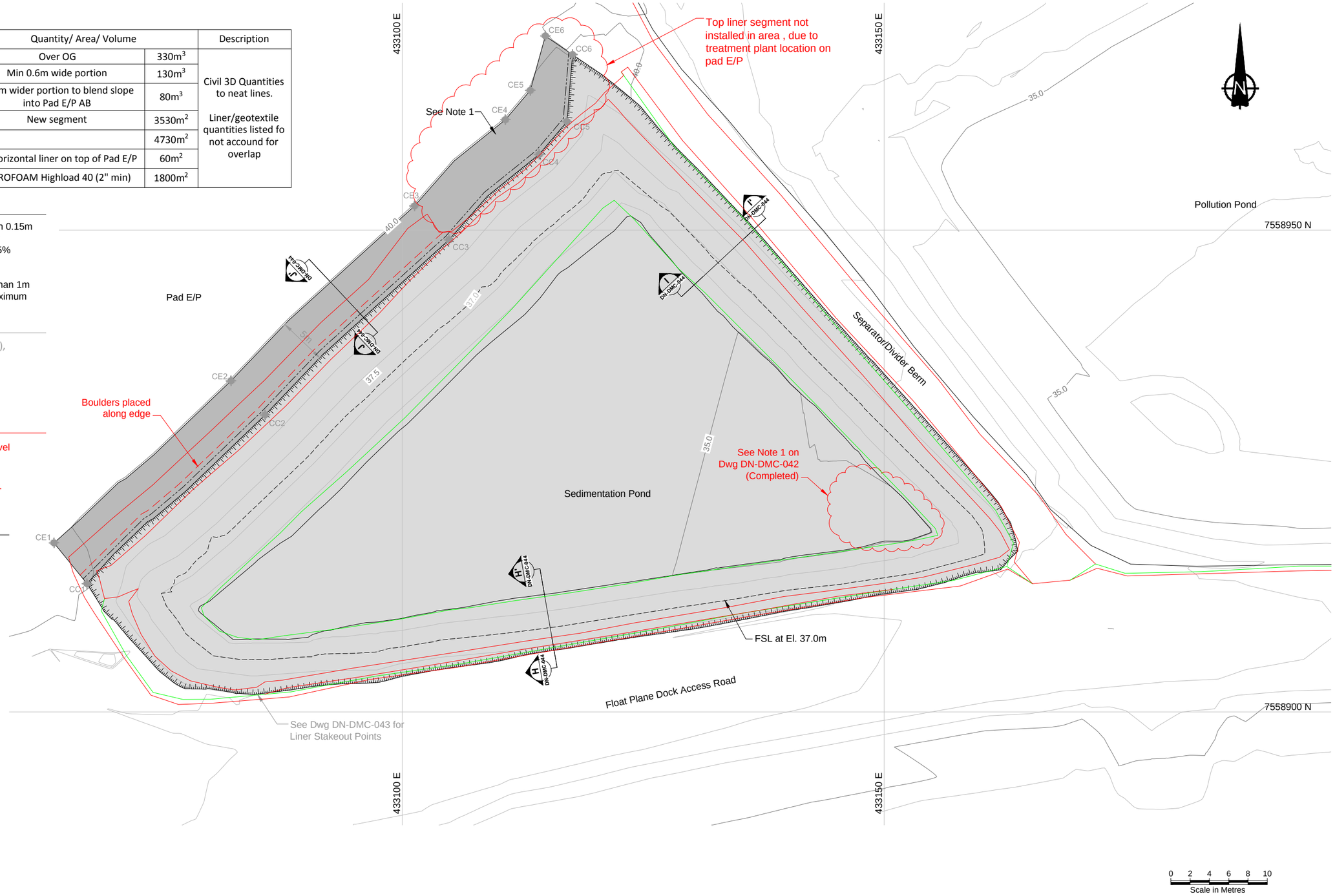
AS-BUILT CAPACITY:

- Sediment Pond As-built Capacity to full supply level (FSL) Elev. 37.0 m = 3,393 m³
- Sediment Pond Capacity to top of freeboard Elev. 37.3 m = 4,078 m³

LEGEND

- Exposed Liner Surface
- Top Anchored/Covered Liner
- Stake Out Point
- Boulder Barriers for Safety and To Anchor Liner (See Note 2)
- As-built Crest
- As-built Toe

LINER COVER STAKE OUT POINTS			
ID	Northing	Easting	Elevation
CC1	7558913.32	433067.29	40.04
CC2	7558930.84	433085.78	39.76
CC3	7558949.01	433104.86	39.52
CC4	7558957.87	433114.21	40.02
CC5	7558961.27	433117.10	39.77
CC6	7558968.22	433117.67	40.18
CE1	7558917.55	433063.88	40.19
CE2	7558934.37	433082.24	40.25
CE3	7558952.53	433101.29	40.28
CE4	7558961.47	433110.71	40.17
CE5	7558964.51	433113.29	40.14
CE6	7558970.16	433114.86	40.18



DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
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REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
AB	AS-BUILT	JBK	LW	20MAR12
1	ISSUED FOR CONSTRUCTION	JBK	LW	26OCT11
0	ISSUED FOR CONSTRUCTION	JBK	EMR	25AUG11

REVISIONS

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FILE NAME: 1CH008.033-000-PLN-DNDMC41-AB.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LIMITED

SRK JOB NO.: 1CH008.033/.058 | SRK DWG NO.: DN-DMC-041

DORIS NORTH PROJECT

DRAWING TITLE: Sedimentation Pond Upgrade - Final Surface

DRAWING NO. HB+D-CIV-CIV-OND-0149 | SHEET 42 OF 46 | REVISION NO. AB

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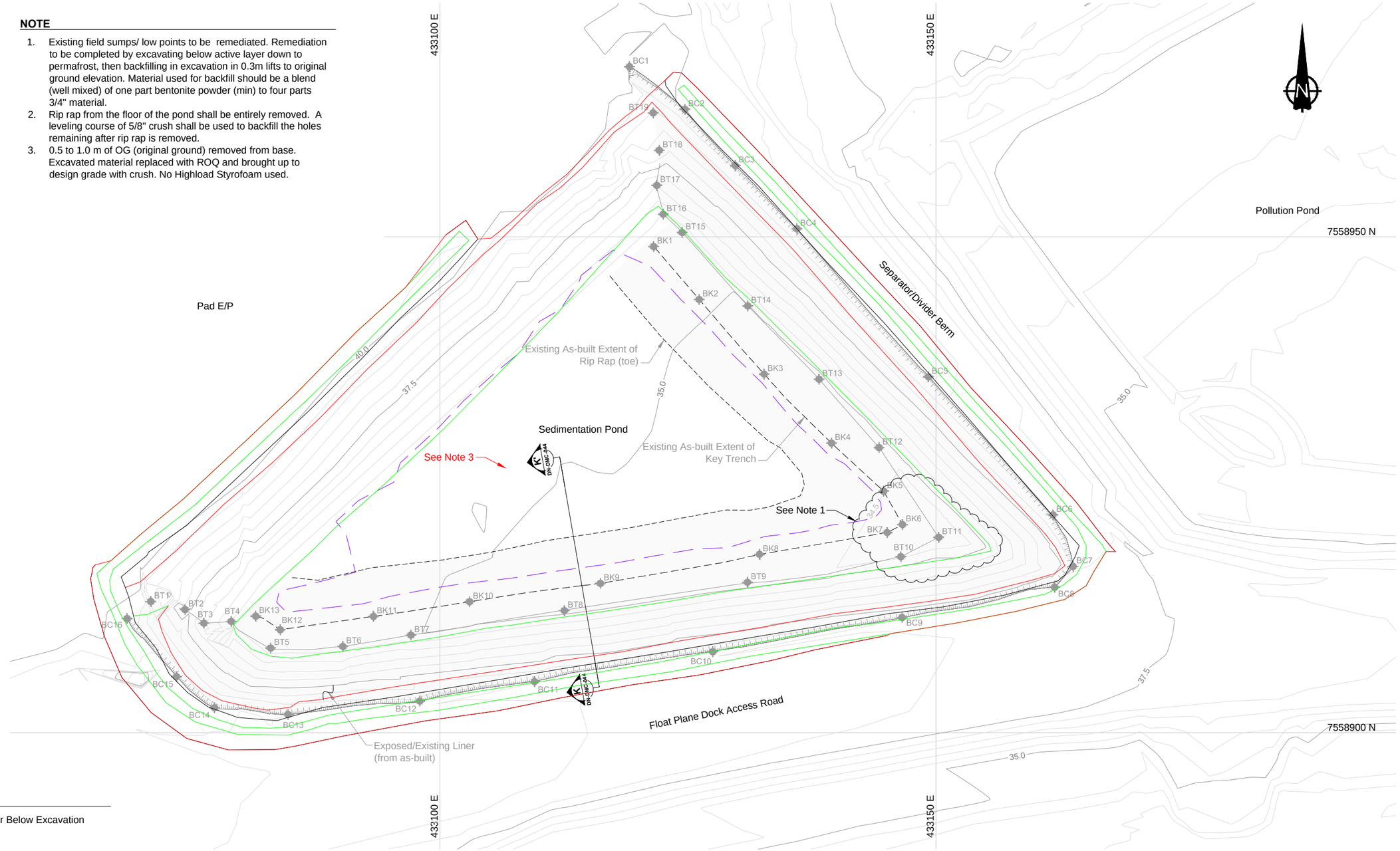
EXCAVATION STAKE OUT POINTS			
ID	Northing	Easting	Elevation
BC1	7558967.17	433119.11	40.14
BC2	7558962.87	433124.70	39.96
BC3	7558957.20	433129.77	39.65
BC4	7558950.82	433135.99	39.50
BC5	7558935.90	433149.25	39.06
BC6	7558921.98	433161.80	38.50
BC7	7558916.78	433163.83	38.05
BC8	7558914.67	433161.96	38.01
BC9	7558911.63	433146.59	37.93
BC10	7558908.18	433127.51	38.27
BC11	7558905.17	433109.53	38.50
BC12	7558903.19	433097.97	38.65
BC13	7558901.85	433084.69	39.01
BC14	7558902.53	433077.27	39.22
BC15	7558905.66	433073.45	39.38
BC16	7558911.53	433068.46	39.86
BT1	7558913.24	433070.86	38.42
BT2	7558912.43	433074.31	37.10
BT3	7558911.05	433076.21	36.60
BT4	7558911.22	433078.97	35.50
BT5	7558908.55	433082.94	35.20
BT6	7558908.72	433090.21	35.17
BT7	7558909.85	433097.07	35.08
BT8	7558912.32	433112.55	34.80
BT9	7558915.18	433131.00	34.67
BT10	7558917.76	433146.47	34.45
BT11	7558919.71	433150.28	34.43
BT12	7558928.77	433144.27	34.56
BT13	7558935.66	433138.22	34.72
BT14	7558943.04	433131.03	34.96
BT15	7558950.45	433124.42	35.13
BT16	7558952.29	433122.51	35.47
BT17	7558955.20	433121.86	36.52
BT18	7558958.73	433122.11	38.31
BT19	7558962.51	433121.50	38.95
BK1	7558949.03	433121.55	35.14
BK2	7558943.70	433126.13	35.05
BK3	7558936.17	433132.68	34.80
BK4	7558929.21	433139.48	34.62
BK5	7558924.36	433144.73	34.50
BK6	7558921.00	433146.63	34.43
BK7	7558920.19	433145.09	34.45
BK8	7558917.99	433132.22	34.66
BK9	7558915.07	433116.18	34.74
BK10	7558913.22	433102.99	34.93
BK11	7558911.74	433093.30	35.16
BK12	7558910.40	433083.91	35.20
BK13	7558911.77	433081.43	35.25

NOTE

1. Existing field sumps/ low points to be remediated. Remediation to be completed by excavating below active layer down to permafrost, then backfilling in excavation in 0.3m lifts to original ground elevation. Material used for backfill should be a blend (well mixed) of one part bentonite powder (min) to four parts 3/4" material.
2. Rip rap from the floor of the pond shall be entirely removed. A leveling course of 5/8" crush shall be used to backfill the holes remaining after rip rap is removed.
3. 0.5 to 1.0 m of OG (original ground) removed from base. Excavated material replaced with ROQ and brought up to design grade with crush. No Highload Styrofoam used.



LEGEND

- Excavation Surface / Existing Liner Below Excavation
- Stake Out Point
- As-built Crest
- As-built Toe
- Excavated Base

0 2 4 6 8 10
Scale in Metres

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
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REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
AB	AS–BUILT	JBK	LW	20MAR12
0	ISSUED FOR CONSTRUCTION	JBK	EMR	24AUG11

REVISIONS

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FILE NAME: 1CH008.033–000–PLN–DNDMC42–AB.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LIMITED

SRK JOB NO.: 1CH008.033/.058 | SRK DWG NO.: DN-DMC-042

DORIS NORTH PROJECT

DRAWING TITLE: Sedimentation Pond Upgrade - Excavation Surface

DRAWING NO. HB+D-CIV-CIV-OND-0150 | SHEET 43 OF 46 | REVISION NO. AB

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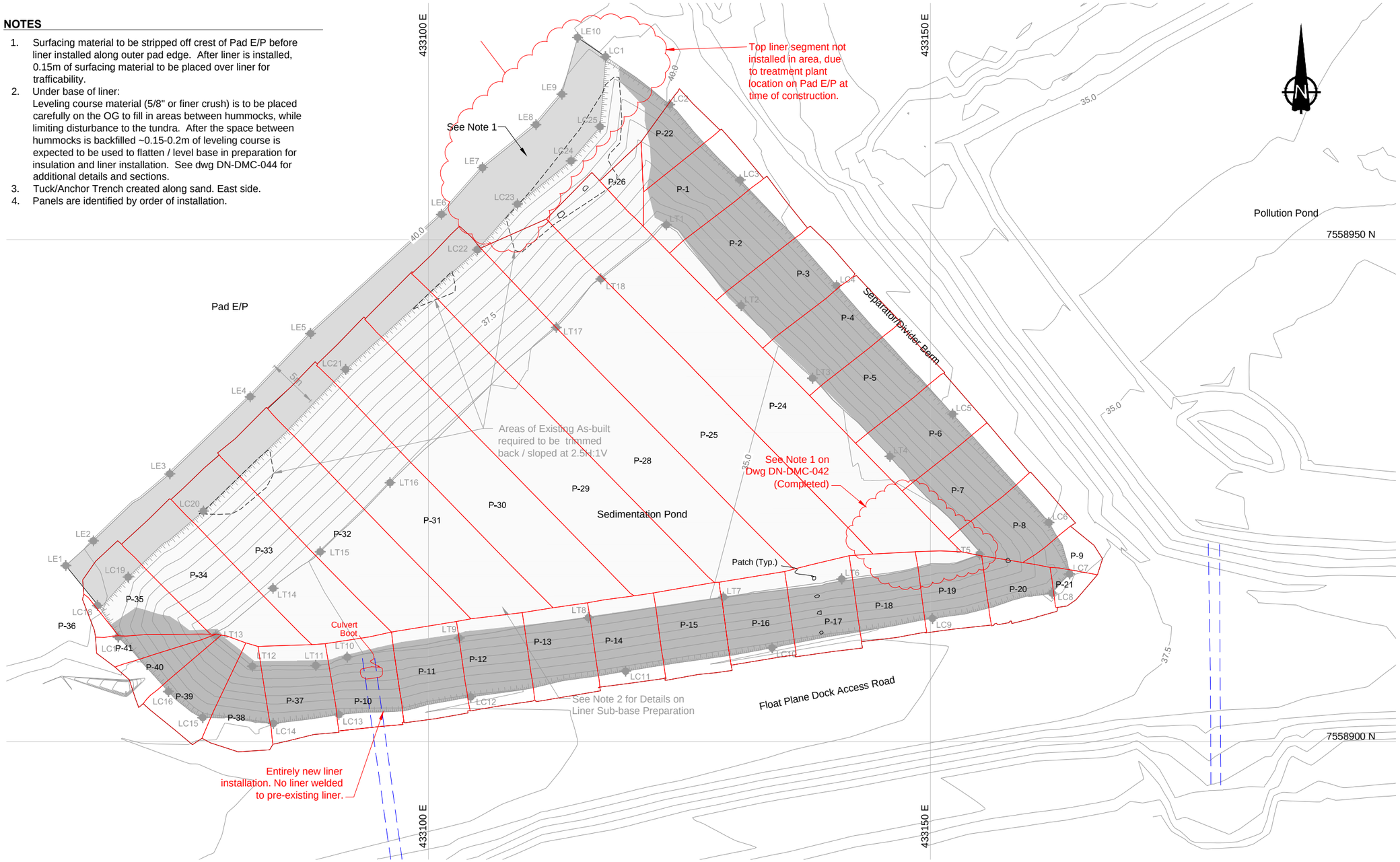
LINER STAKE OUT POINTS			
ID	Northing	Easting	Elevation
LT1	7558951.49	433123.69	35.40
LT2	7558943.44	433131.15	35.13
LT3	7558936.22	433138.26	34.92
LT4	7558928.42	433145.97	35.03
LT5	7558918.67	433154.89	34.97
LT6	7558916.22	433141.16	34.86
LT7	7558914.40	433129.38	34.97
LT8	7558912.36	433115.93	35.00
LT9	7558910.33	433103.06	35.22
LT10	7558908.43	433091.91	35.58
LT11	7558907.60	433088.78	35.74
LT12	7558907.52	433082.46	35.75
LT13	7558910.56	433078.84	35.73
LT14	7558915.29	433084.52	35.72
LT15	7558918.92	433089.22	35.46
LT16	7558925.81	433096.17	35.46
LT17	7558941.27	433112.73	35.44
LT18	7558946.11	433117.17	35.44
LC1	7558968.24	433117.64	40.15
LC2	7558963.46	433124.03	39.99
LC3	7558955.96	433131.06	39.61
LC4	7558945.44	433140.66	39.37
LC5	7558932.64	433152.22	38.96
LC6	7558921.82	433161.81	38.47
LC7	7558916.71	433163.87	38.02
LC8	7558914.80	433162.12	38.05
LC9	7558912.28	433150.20	37.86
LC10	7558909.36	433134.23	38.23
LC11	7558907.03	433119.64	38.26
LC12	7558904.47	433104.21	38.61
LC13	7558902.71	433091.08	38.81
LC14	7558901.82	433084.54	39.01
LC15	7558902.41	433077.51	39.21
LC16	7558905.00	433074.10	39.35
LC17	7558910.42	433069.09	39.76
LC18	7558913.58	433067.03	40.07
LC19	7558916.41	433070.09	39.85
LC20	7558922.97	433077.59	39.85
LC21	7558937.09	433091.75	39.85
LC22	7558949.01	433104.86	39.85
LC23	7558953.56	433108.86	39.85
LC24	7558957.87	433114.21	39.85
LC25	7558961.27	433117.10	39.85
LE1	7558917.55	433063.88	40.19
LE2	7558920.01	433066.63	39.91
LE3	7558926.68	433074.24	39.91
LE4	7558934.37	433082.24	39.91
LE5	7558940.67	433088.26	39.91
LE6	7558952.53	433101.29	39.91
LE7	7558957.19	433105.39	39.91
LE8	7558961.47	433110.71	39.91
LE9	7558964.51	433113.29	39.91
LE10	7558970.16	433114.86	40.18

NOTES

1. Surfacing material to be stripped off crest of Pad E/P before liner installed along outer pad edge. After liner is installed, 0.15m of surfacing material to be placed over liner for trafficability.
2. Under base of liner:
   Leveling course material (5/8" or finer crush) is to be placed carefully on the OG to fill in areas between hummocks, while limiting disturbance to the tundra. After the space between hummocks is backfilled ~0.15-0.2m of leveling course is expected to be used to flatten / level base in preparation for insulation and liner installation. See dwg DN-DMC-044 for additional details and sections.
3. Tuck/Anchor Trench created along sand. East side.
4. Panels are identified by order of installation.



LEGEND

- Liner Extension Surface
- Existing Liner Beneath Excavation
- Stake Out Point
- As-built Crest
- As-built Toe

0 2 4 6 8 10
Scale in Metres

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
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REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
AB	AS-BUILT	MMM	LW	20MAR12
0	ISSUED FOR CONSTRUCTION	JBK	EMR	24AUG11

REVISIONS

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FILE NAME: 1CH008.033-000-PLN-DNDMC43-AB.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LIMITED

SRK JOB NO.: 1CH008.033/.058 | SRK DWG NO.: DN-DMC-043

DORIS NORTH PROJECT

DRAWING TITLE: Sedimentation Pond Upgrade - Liner Surface

DRAWING NO. HB+D-CIV-CIV-OND-0151 | SHEET 44 OF 46 | REVISION NO. AB

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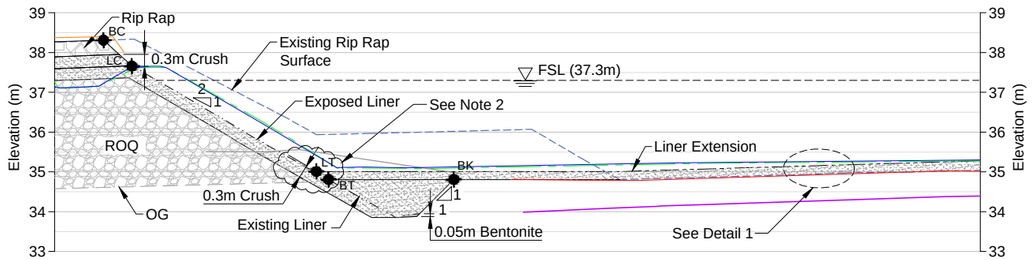
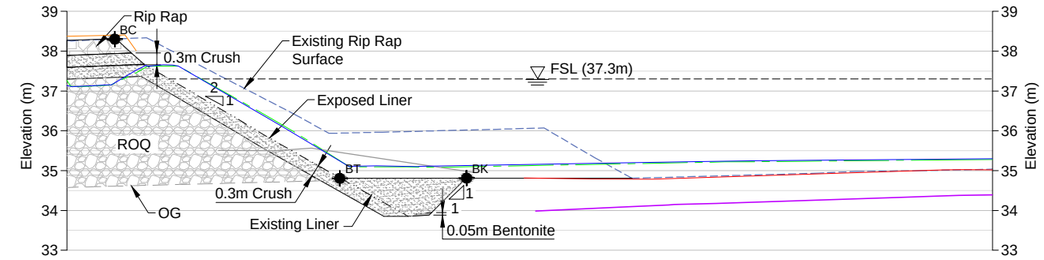


SECTION H - H'
FINAL SURFACE

H
DN-DMC-041

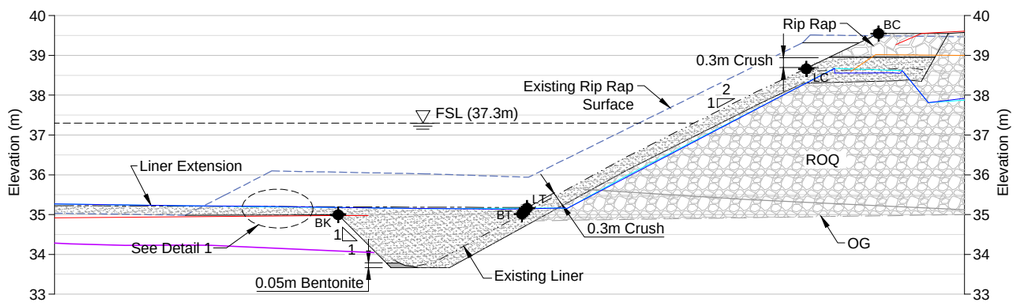
0 1 2 3 4 5
Scale in Metres



SECTION K - K'
EXCAVATION SURFACE

K
DN-DMC-042

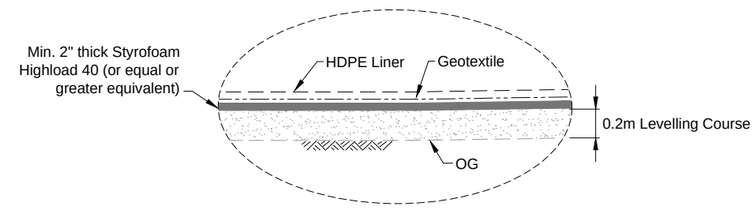
0 1 2 3 4 5
Scale in Metres



SECTION I - I'
FINAL SURFACE

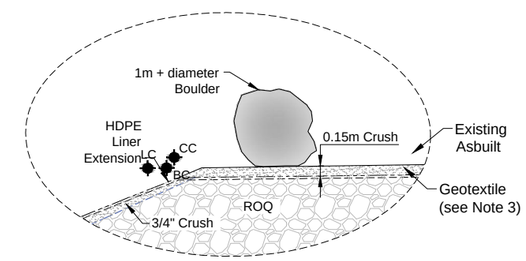
I
DN-DMC-041

0 1 2 3 4 5
Scale in Metres



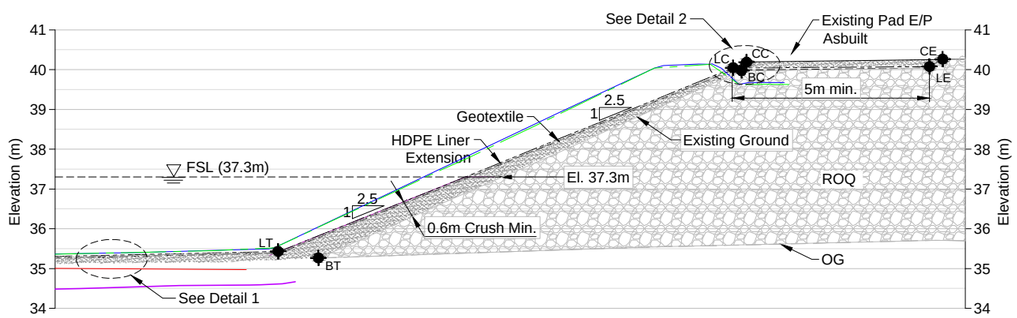
DETAIL 1
Not to Scale

1
-



DETAIL 2
Not to Scale

2
-



SECTION J - J'
FINAL SURFACE

J
DN-DMC-041

0 1 2 3 4 5
Scale in Metres

NOTES

1. All dimensions shown in meters unless otherwise noted.
2. Liner overlaps to be 0.5m and minimum 2m on curving sides / east and west ends.
3. Nonwoven geofabric to be placed against slope of existing Pad E/P asbuilt before liner bedding layer of crush placed and compacted against slope.

LEGEND

- 3/4" Crush Material
- Bentonite Chips
- Rip Rap
- Run of Quarry Material
- Liner System
- Existing HDPE Liner
- HDPE Liner Extension
- Non-Woven Geotextile
- LC CC BC Stake Out Points
- As-built Liner
- As-built Underliner Crush
- As-built Overliner Crush
- As-built ROQ
- As-built Excavation
- As-built Bentonite Under Liner

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
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REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
AB	AS-BUILT	MMM	LW	20MAR12
0	ISSUED FOR CONSTRUCTION	JBK	EMR	24AUG11

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FILE NAME: 1CH008.033-000-SEC-DNDMC44-AB.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LIMITED

SRK JOB NO.: 1CH008.033/.058 | SRK DWG NO.: DN-DMC-044

DORIS NORTH PROJECT

DRAWING TITLE: Sedimentation Pond Sections and Details

DRAWING NO. HB+D-CIV-CIV-OND-0152 | SHEET 45 OF 46 | REVISION NO. AB

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Engineering Drawings for the Roberts Bay Fuel Tank Farm, Doris North Project, Nunavut, Canada

ACTIVE DRAWING STATUS

DWG NUMBER	NEWMONT DWG NUMBER	DRAWING TITLE	REVISION	DATE	STATUS	OLD/REPLACED REVISIONS			
RBTF-00	HB+R-CIV-CIV-OND-0027	Engineering Drawings for the Roberts Bay Fuel Tank Farm	AB	Apr. 18, 2012	2011 As-built	Rev. 2, June 9, 2011	Rev. 1, May 9, 2011	Rev. 0, Apr. 6, 2011	Rev. C, Mar. 11, 2011
RBTF-01	HB+R-CIV-CIV-OND-0028	Fuel Tank Farm General Arrangement	AB	Apr. 18, 2012	2011 As-built	Rev. 2, June 9, 2011	Rev. 1, May 9, 2011	Rev. 0, Apr. 6, 2011	Rev. C, Mar. 11, 2011
RBTF-02	HB+R-CIV-CIV-OND-0029	Fuel Tank Farm Plan Layout	AB	Apr. 18, 2012	2011 As-built	Rev. 2, June 9, 2011	Rev. 1, May 9, 2011	Rev. 0, Apr. 6, 2011	Rev. C, Mar. 11, 2011
RBTF-03	HB+R-CIV-CIV-OND-0042	Fuel Tank Farm Bedrock Excavation	1	June 9, 2011	Issued for Construction	Rev. 0, Apr. 6, 2011	Rev. A, Mar. 11, 2011		
RBTF-04	HB+R-CIV-CIV-OND-0043	Fuel Tank Farm Subgrade Plan	AB	Apr. 18, 2012	2011 As-built	Rev. 1, June 9, 2011	Rev. 0, Apr. 6, 2011	Rev. A, Mar. 11, 2011	
RBTF-05	HB+R-CIV-CIV-OND-0044	Fuel Tank Farm Subgrade Sections and Details	AB	Apr. 18, 2012	2011 As-built	Rev. 0, Apr. 6, 2011	Rev. A, Mar. 11, 2011		
RBTF-06	HB+R-CIV-CIV-OND-0045	Fuel Tank Farm Final Layout Plan (with Stake Out Points)	AB	Apr. 18, 2012	2011 As-built	Rev. 2, June 9, 2011	Rev. 0, Apr. 6, 2011	Rev. A, Mar. 11, 2011	
RBTF-07	HB+R-CIV-CIV-OND-0030	Fuel Tank Farm Sections Sheet 1 of 2	AB	Apr. 18, 2012	2011 As-built	Rev. 1, June 9, 2011	Rev. 1, June 9, 2011	Rev. 0, Apr. 6, 2011	Rev. C, Mar. 11, 2011
RBTF-08	HB+R-CIV-CIV-OND-0046	Fuel Tank Farm Sections Sheet 2 of 2	0	April 6, 2011	Issued for Construction	Rev. A, Mar. 11, 2011			
RBTF-09	HB+R-CIV-CIV-OND-0031	Fuel Tank Farm Details Sheet 1 of 2	1	June 9, 2011	Issued for Construction	Rev. 0, Apr. 6, 2011	Rev. C, Mar. 11, 2011	Rev. B, Sept. 27, 2010	Rev. A, April 27, 2010
RBTF-10	HB+R-CIV-CIV-OND-0047	Fuel Tank Farm Details Sheet 2 of 2	0	April 6, 2011	Issued for Construction	Rev. A, Mar. 11, 2011			
RBTF-11	HB+R-CIV-CIV-OND-0048	Roberts Bay Preliminary Laydown Expansion	AB	Apr. 18, 2012	2011 As-built	Rev. 2, June 9, 2011	Rev. 1, May 9, 2011	Rev. 0, Apr. 6, 2011	Rev. A, Mar. 11, 2011
RBTF-12	HB+R-CIV-CIV-OND-0039	Roberts Bay Overburden Storage Area and Sedimentation Control Berm	AB	Apr. 18, 2012	2011 As-built	Rev. 0, April 6, 2011	Rev. B, Mar. 11, 2011	Rev. A, Sept. 27, 2010	

HOPE BAY MINING LTD.

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PROJECT NO: 1CH008.058
2011 As-built
Revision AB
Apr. 18, 2012
RBTF-00 / HB+R-CIV-CIV-OND-0027

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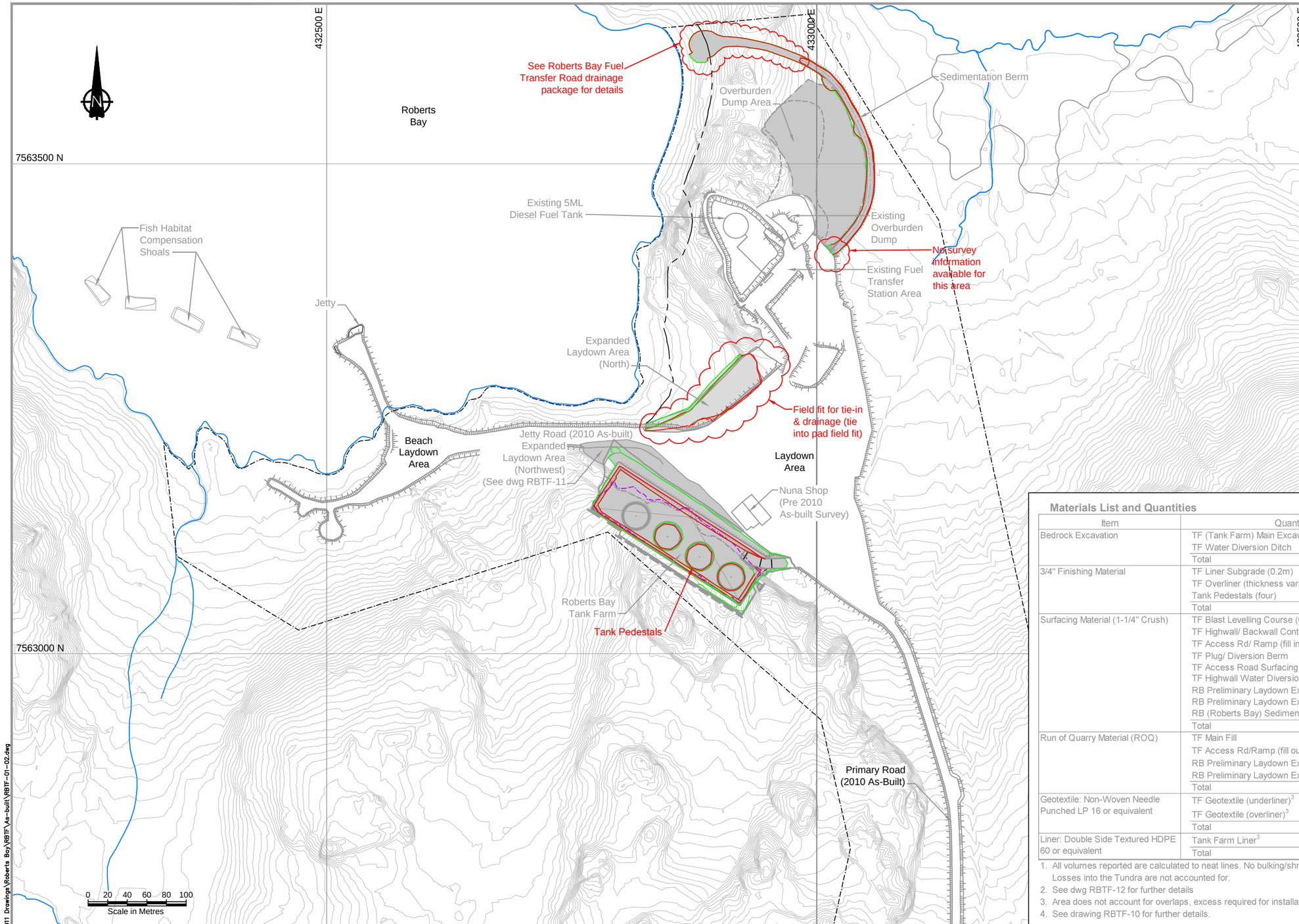


NOTES

1. The designs are based on the contour information shown on these drawings. It is however the Contractor's responsibility to confirm that the contours are a fair reflection of the ground levels in the vicinity of the works, and to advise the Construction Manager and Engineer of any differences.
2. The co-ordinate system is UTM NAD 83, Zone 13.
3. All dimensions are in metric units, unless specifically mentioned.
4. All drawings are scaled appropriately for D-Size construction drawings. Scales may not be correct if these drawings are reproduced and presented in any other size format.
5. The Engineer will provide the Construction Manager and Contractor with digital design files for setting out the works. The Engineer will instruct the Contractor to survey random spot checks to confirm whether the works have been set out correct.
6. Construction shall be in accordance with the following Technical Specifications: Earthworks and Geotechnical Engineering, Hope Bay project, Nunavut, Canada, Revision G -Issue for Construction.
7. Quarried rock from the tank farm area will be used to construct the laydown expansive areas. Excess rock will be used at other areas of the site.
8. Notes in this drawing apply to all other active drawings.

LEGEND

- New Infrastructure (constructed in 2011)
- Commercial Lease Boundary
- 30m Shoreline Setback
- As-built Crest
- As-built Toe
- As-built Cut/Fill Line

Materials List and Quantities

Item	Quantity/Area/Volume		Description[1]
Bedrock Excavation	TF (Tank Farm) Main Excavation	75,500 m³	Volumes derived from Gemcom (Gems 6.3) model.
	TF Water Diversion Ditch	5 m³	
	Total	75,505 m³	
3/4" Finishing Material	TF Liner Subgrade (0.2m)	2,110 m³	Volumes derived from Gemcom (Gems 6.3) model.
	TF Overliner (thickness varies)	5,455 m³	
	Tank Pedestals (four)	1,596 m³	
	Total	9,151 m³	
Surfacing Material (1-1/4" Crush)	TF Blast Levelling Course (0.15m)	1,160 m³	Volumes derived from Gemcom (Gems 6.3) model.
	TF Highwall/ Backwall Containment Berm	790 m³	
	TF Access Rd/ Ramp (fill inside containment)	190 m³	
	TF Plug/ Diversion Berm	15 m³	
	TF Access Road Surfacing (outside continment)	45 m³	Calculated from ACAD 2011
	TF Highwall Water Diversion Berm[4]	300 m³	~ Hand calculation to neat lines
	RB Preliminary Laydown Expansion Northwest	380 m³	Calculated from ACAD 2011
	RB Preliminary Laydown Expansion North	517 m³	Calculated from ACAD 2011
	RB (Roberts Bay) Sedimentation Berm[2]	2,500 m³	Volumes derived from CIVIL 3D
	Total	5,897 m³	
Run of Quarry Material (ROQ)	TF Main Fill	12,355 m³	Volumes derived from Gemcom (Gems 6.3) model.
	TF Access Rd/Ramp (fill outside of containment)	410 m³	
	RB Preliminary Laydown Expansion Northwest	2,365 m³	Volumes derived from CIVIL 3D
	RB Preliminary Laydown Expansion North	4,341 m³	Volumes derived from CIVIL 3D
	Total	19,471 m³	
Geotextile: Non-Woven Needle Punched LP 16 or equivalent	TF Geotextile (underliner)[3]	10,300 m²	Areas derived from Gemcom (Gems 6.3) model.
	TF Geotextile (overliner)[3]	10,300 m²	
	Total	20,600 m²	
Liner: Double Side Textured HDPE 60 or equivalent	Tank Farm Liner[3]	10,300 m²	Areas derived from Gemcom (Gems 6.3) model.
	Total	10,300 m²	

1. All volumes reported are calculated to neat lines. No bulking/shrinking factor have been utilized in the volume determination. Losses into the Tundra are not accounted for.
2. See dwg RBTF-12 for further details
3. Area does not account for overlaps, excess required for installation or for any deviation from neat design lines
4. See drawing RBTF-10 for further details.

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE

REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
AB	AS-BUILT	JBK	EMR	18Apr12
2	Tanks Moved	JBK	EMR	09Jun11
1	North Laydown Added	JBK	EMR	09May11
0	Issued for Construction	JBK	EMR	06Apr11
C	Issued for Review	JBK	EMR	11Mar11
B	Never Issued	AT	EMR	27Sep10
A	Issued for Comments	AT	EMR	27Apr10

REVISIONS

This drawing is uncontrolled when printed unless stamped and signed with original ink and recorded on a Distribution Register.

PROFESSIONAL ENGINEER'S STAMP

srk consulting

DESIGN: JBK/AT	DRAWN: NV/DC/LR	REVIEWED: EMR
CHECKED: MMM	APPROVED: EMR	DATE: Apr. 18, 2012

FILE NAME: RBTF-01-02.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LTD.

SRK JOB NO.: 1CH008.058 SRK DWG NO.: RBTF-01

Doris North Project

DRAWING TITLE:

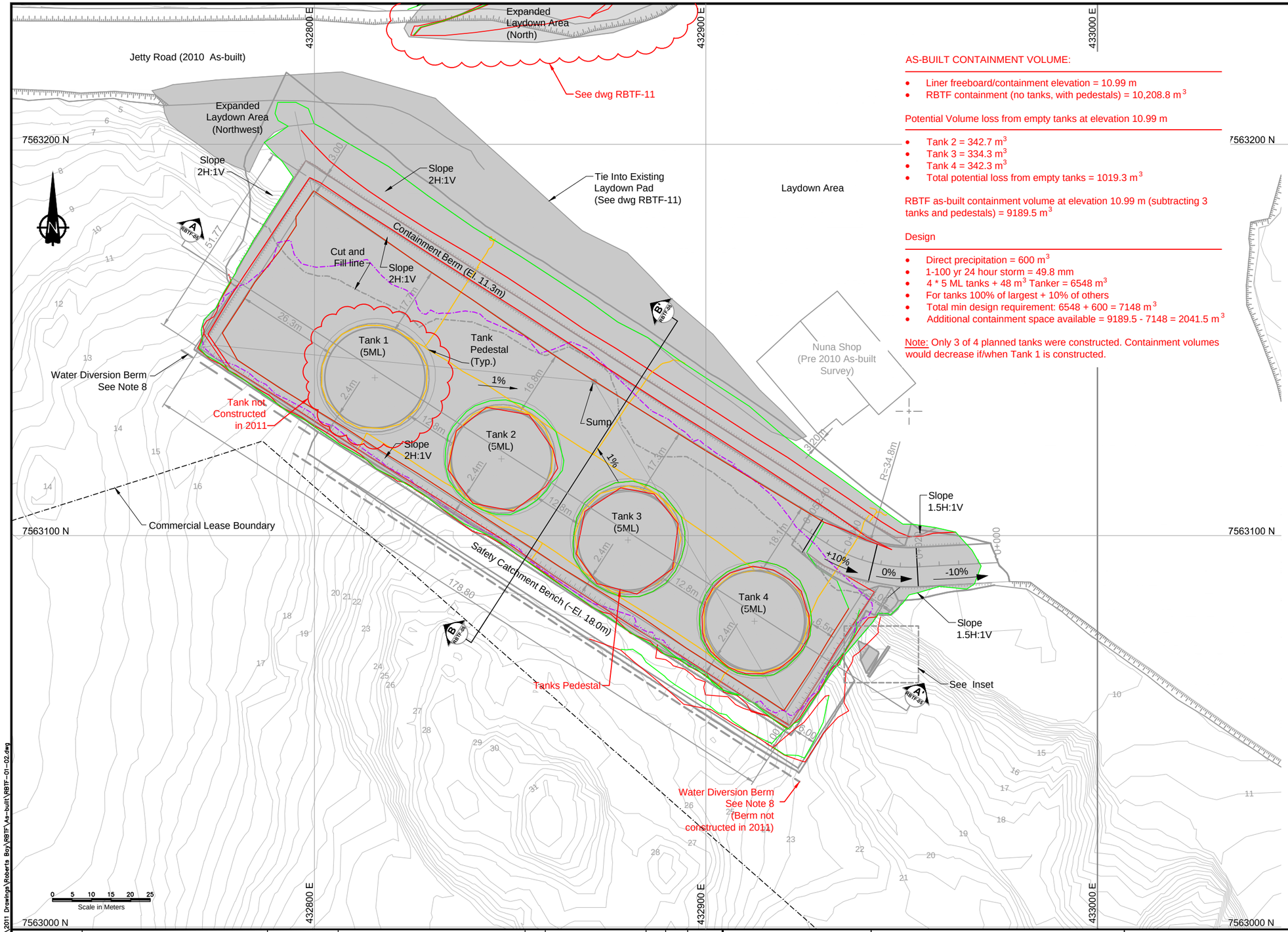
Fuel Tank Farm
General Arrangement

NEWMONT DRAWING NO. HB+R-CIV-CIV-OND-0028

SHEET 2 OF 13

REVISION NO. AB

J:\01_SITES\Hope_Bay\ACAD\2011 Drawings\Roberts Bay\RBTF\As-built\RBTF-01-02.dwg



AS-BUILT CONTAINMENT VOLUME:

- Liner freeboard/containment elevation = 10.99 m
- RBTF containment (no tanks, with pedestals) = 10,208.8 m^3

Potential Volume loss from empty tanks at elevation 10.99 m

- Tank 2 = 342.7 m^3
- Tank 3 = 334.3 m^3
- Tank 4 = 342.3 m^3
- Total potential loss from empty tanks = 1019.3 m^3

RBTF as-built containment volume at elevation 10.99 m (subtracting 3 tanks and pedestals) = 9189.5 m^3

Design

- Direct precipitation = 600 m^3
- 1-100 yr 24 hour storm = 49.8 mm
- 4 * 5 ML tanks + 48 m^3 Tanker = 6548 m^3
- For tanks 100% of largest + 10% of others
- Total min design requirement: 6548 + 600 = 7148 m^3
- Additional containment space available = 9189.5 - 7148 = 2041.5 m^3

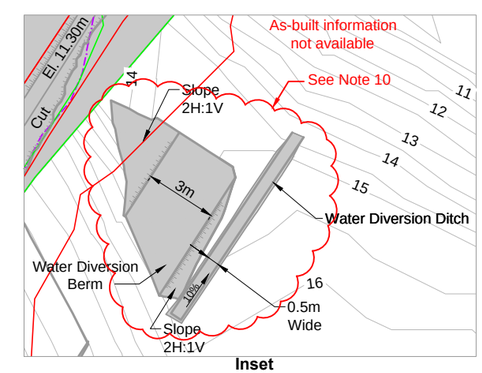
Note: Only 3 of 4 planned tanks were constructed. Containment volumes would decrease if/when Tank 1 is constructed.

NOTES:

1. The Roberts Bay Tank Farm is to be constructed on a graded engineered fill pad over an intact bedrock surface.
2. The bedrock surface shall be drill and blasted to specified elevation. The finished grade of the blasted bedrock surface has a maximum tolerance of -0.3m.
3. The Contractor shall ensure the blasted floor has natural drainage and minimal ponding water.
4. All blasted material shall be excavated to the expose intact rock surface for survey and approval from the EPCM team and the Engineer.
5. The scope of work described herein specifically excludes all electrical and mechanical elements.
6. Tanks 1 to 4 will be designed and constructed by Others and will only be operational once the appropriate regulatory approvals have been put in place. The grounding of the tanks will be designed and installed by Others.
7. The Roberts Bay Tank Farm Design is based on and meets the standards from Canadian Council of Ministers of Environment (CCME), National Fire Code of Canada (2010) and Newmont Environmental Standards.
8. The exact location of the highwall water diversion is to be field fit to ensure drainage is directed away from highwall. See typical detail 13 on dwg RBTF-10 for additional berm details.
9. Ramp access shall be restricted, for light maintenance vehicles only.
10. Water Diversion Berm side slope to be field fit to ensure no ponding and drainage directed towards diversion ditch.
11. The Owner will install appropriate signage and barricade to prevent any vehicle access within the secondary catchment area other than on the ram
12. The tank locations and inter-tank spacing has been provided by others.

LEGEND

- As-built Cut/fill Line
- As-built Crest
- As-built Toe
- Grounding Cables



Inset
Diversion Berm and Ditch
0 1.25 2.5 3.75 5 6.25
Scale in Meters

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
–	–		

REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
AB	As-built	MMM	EMR	18Apr12
2	Tanks Moved	JBK	EMR	09Jun11
1	North Laydown Added	JBK	EMR	09May11
0	Issued for Construction	JBK	EMR	06Apr11
C	Issued for Review	JBK	EMR	11Mar11
B	Never Issued	MK	EMR	27Sep10
A	Issued for Comments	AT	EMR	27Apr10

REVISIONS

Original Drawings Stamped and Signed by Engineer
This drawing is uncontrolled when printed unless stamped and signed with original ink and recorded on a Distribution Register.
PROFESSIONAL ENGINEER'S STAMP

srk consulting

DESIGN: AT/JBK/MMM	DRAWN: NV/DC/LR	REVIEWED: EMR
CHECKED: AT/JBK/MMM	APPROVED: EMR	DATE: Apr. 18, 2012

FILE NAME: RBTF-01-02.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LTD.

SRK JOB NO.: 1CH008.033 SRK DWG NO.: RBTF-02

Doris North Project

DRAWING TITLE: Fuel Tank Farm Plan Layout

NEWMONT DRAWING NO. HB+R-CIV-CIV-OND-0029 | SHEET 3 OF 13 | REVISION NO. AB

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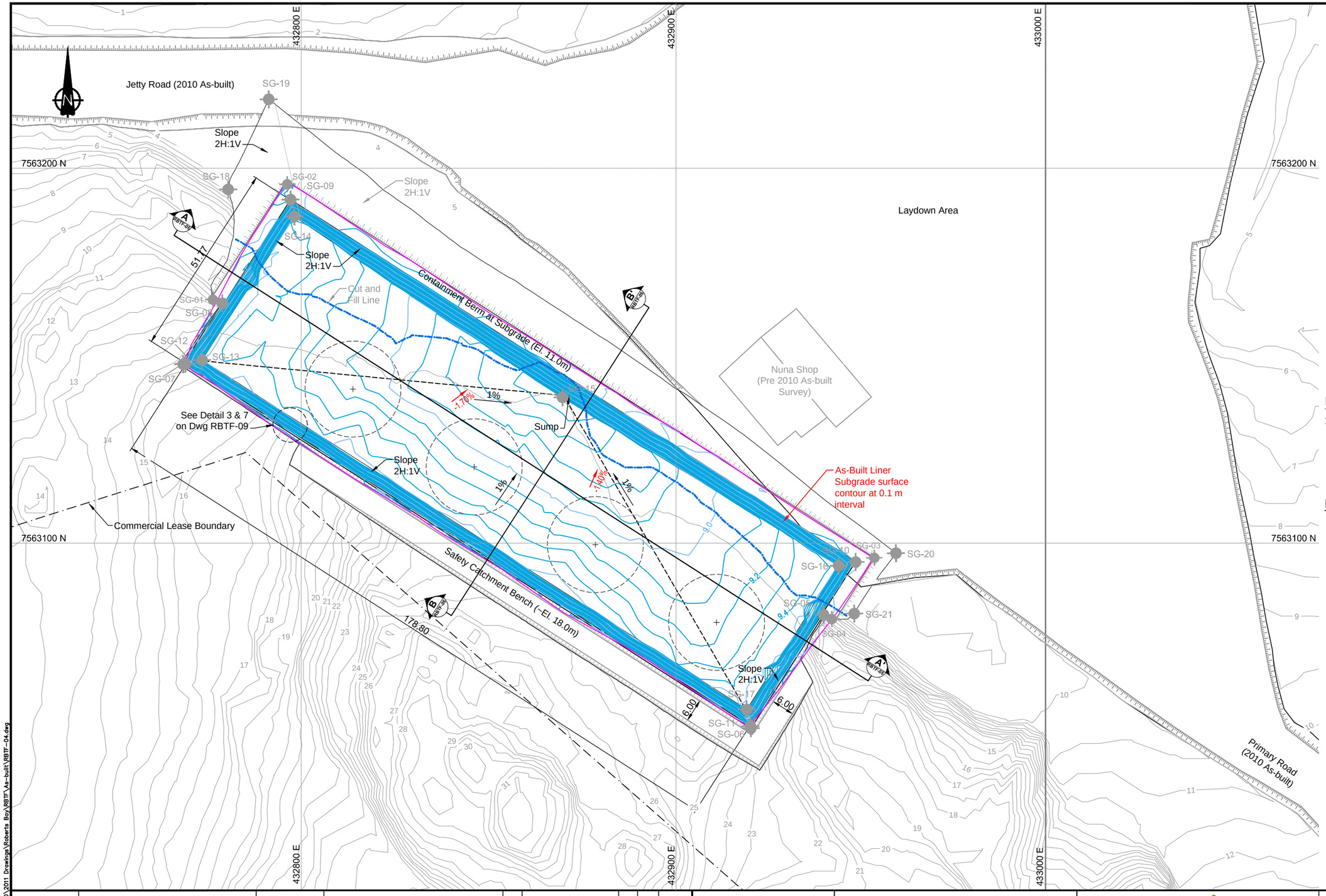

SUBGRADE STAKE OUT POINTS			
ID	Northing	Easting	Elev. (m)
SG-01	7563164.90	432777.91	11.00
SG-02	7563195.67	432797.75	11.00
SG-03	7563096.03	432954.35	11.00
SG-04	7563079.72	432943.00	11.00
SG-05	7563080.83	432940.83	11.00
SG-06	7563050.53	432921.39	11.00
SG-07	7563147.69	432769.93	11.00
SG-08	7563163.96	432780.37	11.00
SG-09	7563191.53	432798.65	11.00
SG-10	7563094.92	432949.27	11.00
SG-11	7563051.22	432921.24	11.00
SG-12	7563147.84	432770.63	11.00
SG-13	7563148.82	432775.07	9.39
SG-14	7563187.01	432799.63	9.40
SG-15	7563138.83	432871.14	8.42
SG-16	7563093.92	432944.75	9.40
SG-17	7563055.67	432920.28	9.39
SG-18	7563194.31	432781.98	5.00
SG-19	7563218.34	432792.80	3.06
SG-20	7563097.28	432960.09	8.85
SG-21	7563081.17	432948.96	9.19

NOTES

1. Stake out points provided are for top subgrade surface (i.e. surface liner system will be installed/placed on top of). The Contractor must make the appropriate adjustments for the different fill types when setting out the works.

LEGEND

- Liner Subgrade Major Contour (2011 As-built)
- Liner Subgrade Minor Contour (2011 As-built)
- Liner Subgrade Outline/ Extents (2011 As-built)
- Extent of Excavation (2011 As-built)

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE

REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
AB	As-built	JBK	EMR	18Apr12
1	Tanks Moved	JBK	EMR	09Jun11
0	Issued for Construction	JBK	EMR	06Apr11
A	Issued for Review	JBK	EMR	11Mar11

REVISIONS

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PROFESSIONAL ENGINEER'S STAMP

srk consulting

DESIGN: JBK	DRAWN: DC/LR	REVIEWED: LW
CHECKED: JBK/MMM	APPROVED: EMR	DATE: April 18, 2012

FILE NAME: RBTF-04.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LTD.

SRK JOB NO.: 1CH008.033 SRK DWG NO.: RBTF-04

Doris North Project

DRAWING TITLE:

Fuel Tank Farm
Subgrade Plan

NEWMONT DRAWING NO. HB+R-CIV-CIV-OND-0043

SHEET 5 OF 13

REVISION NO. AB

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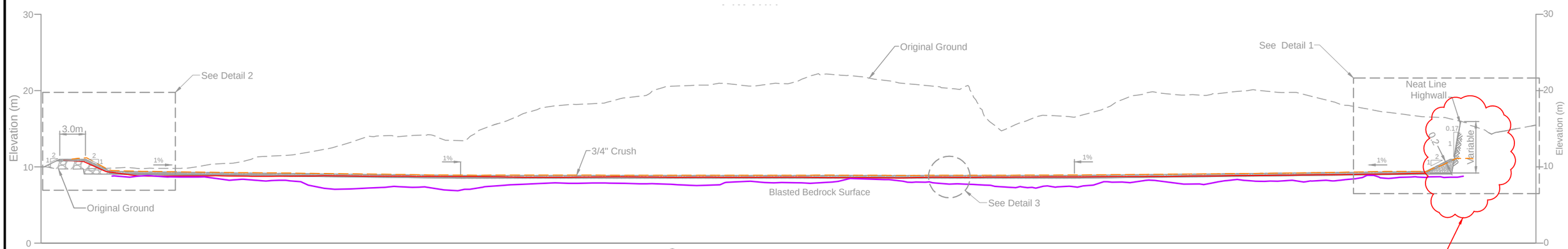
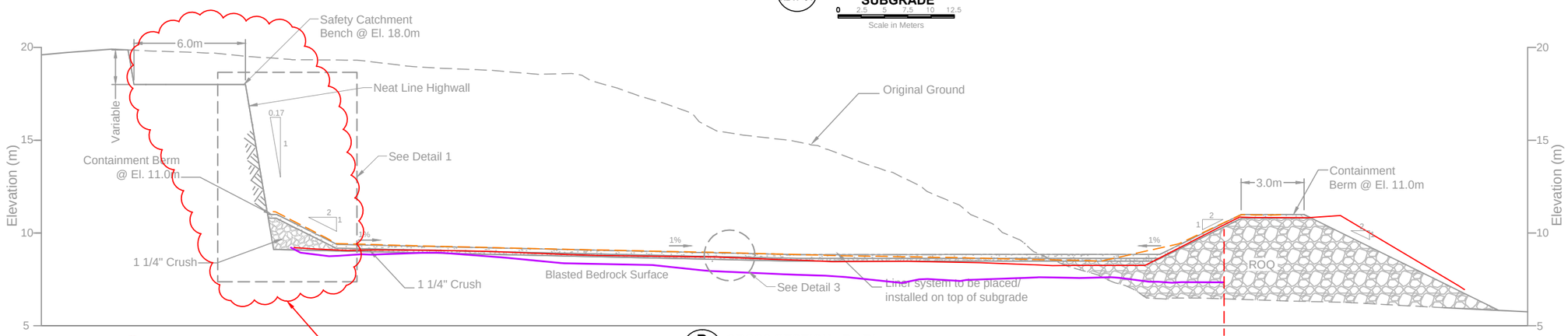
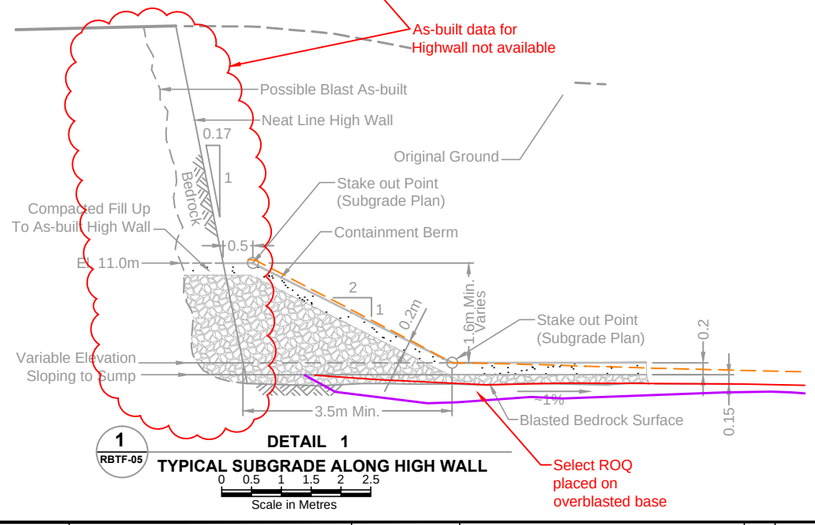


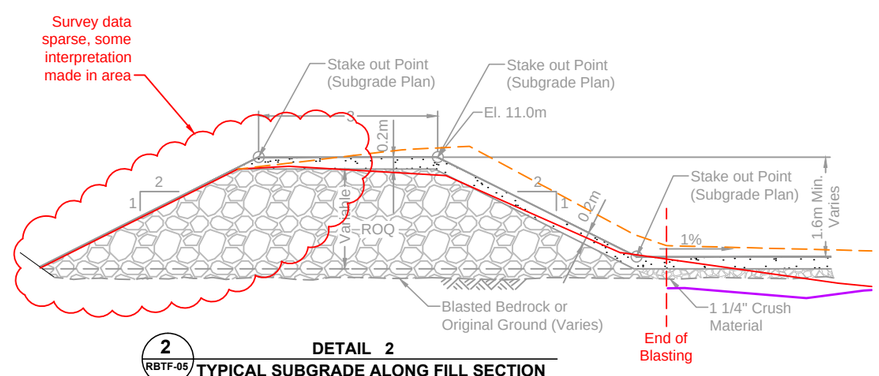
A RBTF-04 **CROSS SECTION A - A'**
SUBGRADE
0 2.5 5 7.5 10 12.5
Scale in Meters



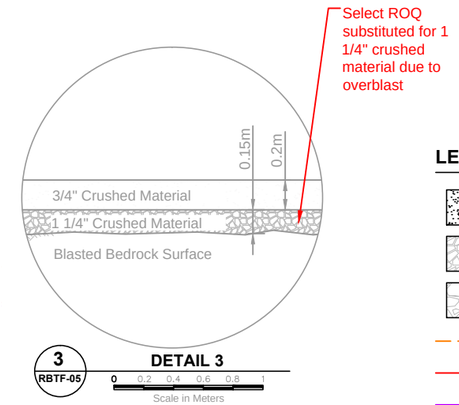
B RBTF-04 **CROSS SECTION B - B'**
SUBGRADE
0 1.25 2.5 3.75 5 6.25
Scale in Meters



1 RBTF-05 **DETAIL 1**
TYPICAL SUBGRADE ALONG HIGH WALL
0 0.5 1 1.5 2 2.5
Scale in Metres



2 RBTF-05 **DETAIL 2**
TYPICAL SUBGRADE ALONG FILL SECTION
0 0.5 1 1.5 2 2.5
Scale in Metres



3 RBTF-05 **DETAIL 3**
0 0.2 0.4 0.6 0.8 1
Scale in Metres

LEGEND

- ¾" Crushed Material
- 1¼" Crushed Material
- ROQ
- As-built Crush Underliner
- As-built ROQ
- As-built Excavation

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
REFERENCE DRAWINGS			

NO.	DESCRIPTION	CHK'D	APP'D	DATE
AB	As-built	MMM	EMR	18Apr12
0	Issued for Construction	JBK	EMR	06Apr11
A	Issued for Review	JBK	EMR	11Mar11

REVISIONS

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PROFESSIONAL ENGINEER'S STAMP

srk consulting

DESIGN: JBK	DRAWN: DC/LR	REVIEWED: LW
CHECKED: MMM	APPROVED: EMR	DATE: Apr. 18, 2012

FILE NAME: RBTF-Sections.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LTD.

SRK JOB NO.: 1CH008.058 SRK DWG NO.: RBTF-05

Doris North Project

DRAWING TITLE:
Fuel Tank Farm
Subgrade Sections and Details

NEWMONT DRAWING NO. HB+R-CIV-CIV-OND-0044
SHEET 6 OF 13
REVISION NO. AB

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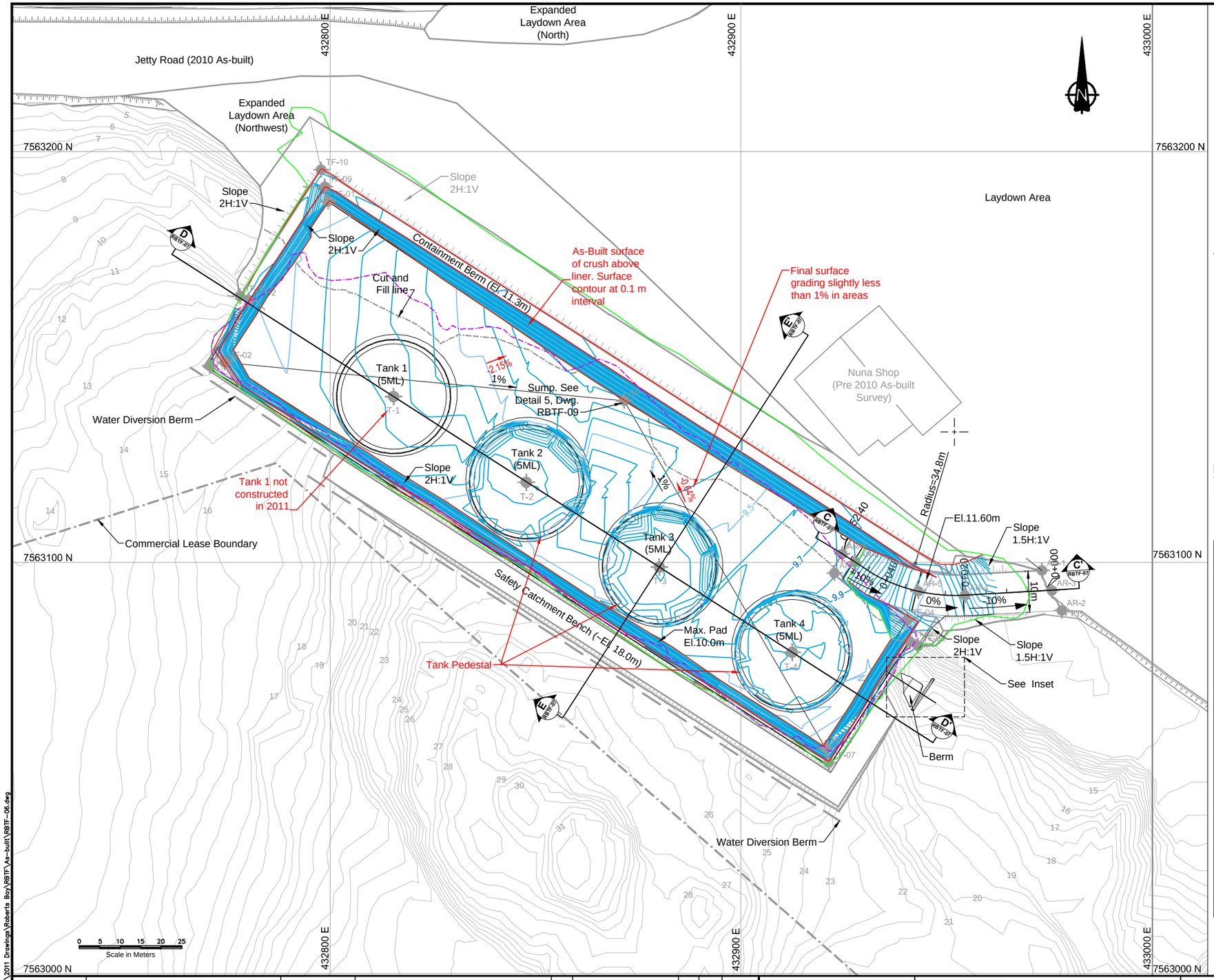


ACCESS RAMP STAKE OUT POINTS			
ID	Northing	Easting	Elev. (m)
AR-1	7563098.04	432972.72	9.69
AR-2	7563088.29	432977.56	9.26
AR-3	7563093.16	432975.14	9.48
AR-4	7563092.00	432953.96	11.60
AR-5	7563093.03	432942.62	11.60
AR-6	7563100.11	432927.30	10.14
AR-7	7563097.42	432922.23	9.75
AR-8	7563102.06	432924.54	9.75

SUMP PUMP STAKE OUT POINT			
ID	Northing	Easting	Elev. (m)
SP	7563139.33	432871.47	9.02

FUEL TANK FARM STAKE OUT POINTS			
ID	Northing	Easting	Elev. (m)
TF-01	7563187.84	432799.46	10.00
TF-02	7563148.65	432774.32	10.00
TF-03	7563054.91	432920.44	10.00
TF-04	7563086.02	432940.39	10.00
TF-05	7563079.72	432943.00	11.30
TF-06	7563080.86	432940.91	11.30
TF-07	7563051.32	432921.22	11.30
TF-08	7563147.86	432770.72	11.30
TF-09	7563191.44	432798.68	11.30
TF-10	7563195.58	432797.77	11.30
TF-11	7563164.82	432778.04	11.30
TF-12	7563163.81	432780.22	11.30
TF-13	7563071.76	432941.76	15.10
TF-14	7563069.88	432944.11	15.15
TF-15	7563068.25	432939.48	15.75
TF-16	7563064.93	432940.91	16.07
TF-17	7563064.19	432941.41	15.21
TF-18	7563063.91	432941.82	15.21
TF-19	7563071.56	432946.96	14.28
TF-20	7563071.76	432946.49	14.29

TANK (Center) STAKE OUT POINTS			
ID	Northing	Easting	Elev. (m)
T-1	7563140.35	432815.41	10.32
T-2	7563119.61	432847.74	10.32
T-3	7563098.87	432880.07	10.32
T-4	7563078.13	432912.40	10.32

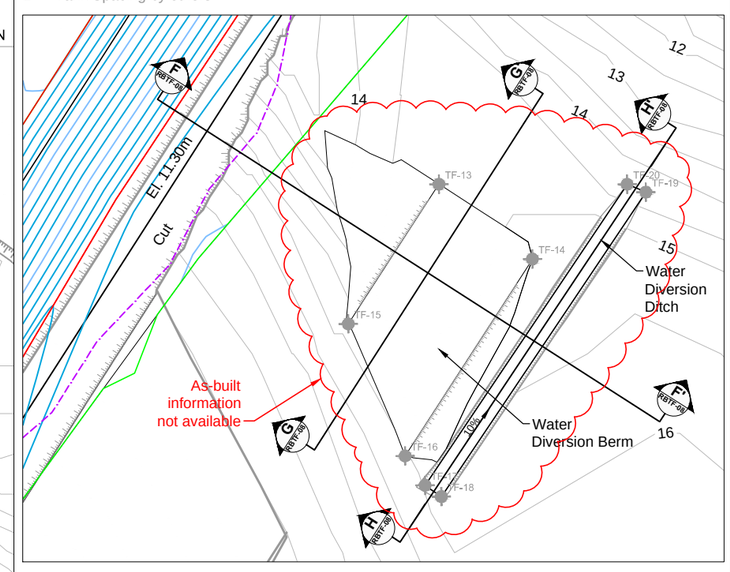
As-built info for tanks not available

LEGEND

- Overliner Crush Major Contour (2011 As-built)
- Overliner Crush Minor Contour (2011 As-built)
- Overliner Crush Outline/ Extents (2011 As-built)
- Extent of Excavation (2011 As-built)
- Crest (2011 As-built)
- Toe (2011 As-built)

NOTES

1. Stake out points shown are for final Fuel Tank Farm surface (i.e. after liner cover and access ramp are constructed).
2. Tank Spacing by others.



Inset - Diversion Berm and Ditch

0 0.75 1.5 2.25 3 3.75
Scale in Meters

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
–	–		

REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
AB	As-built	JBK	EMR	18Apr12
2	Tanks Moved	JBK	EMR	09Jun11
1	North Laydown Added	JBK	EMR	09May11
0	Issued for Construction	JBK	EMR	06Apr11
A	Issued for Review	JBK	EMR	11Mar11

REVISIONS

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PROFESSIONAL ENGINEER'S STAMP

srk consulting

DESIGN: AT/JBK/MMM	DRAWN: DC/LR	REVIEWED: LW
CHECKED: JBK/MMM	APPROVED: EMR	DATE: Apr. 18, 2012

FILE NAME: RBTF-06.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LTD.

SRK JOB NO.: 1CH008.033 SRK DWG NO.: RBTF-06

Doris North Project

DRAWING TITLE: Fuel Tank Farm Final Layout Plan (with Stake Out Points)

NEWMONT DRAWING NO. HB+R-CIV-CIV-OND-0045 | SHEET 7 OF 13 | REVISION NO. AB

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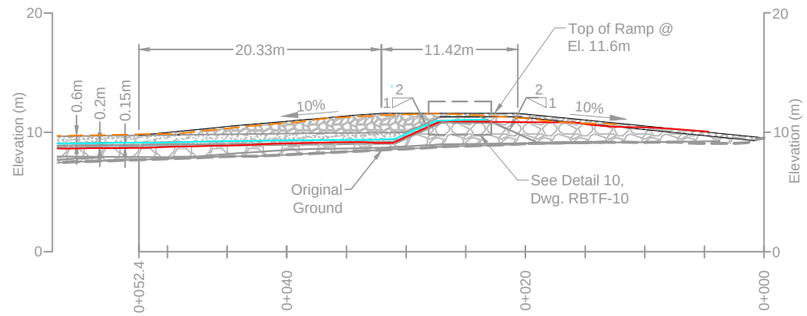
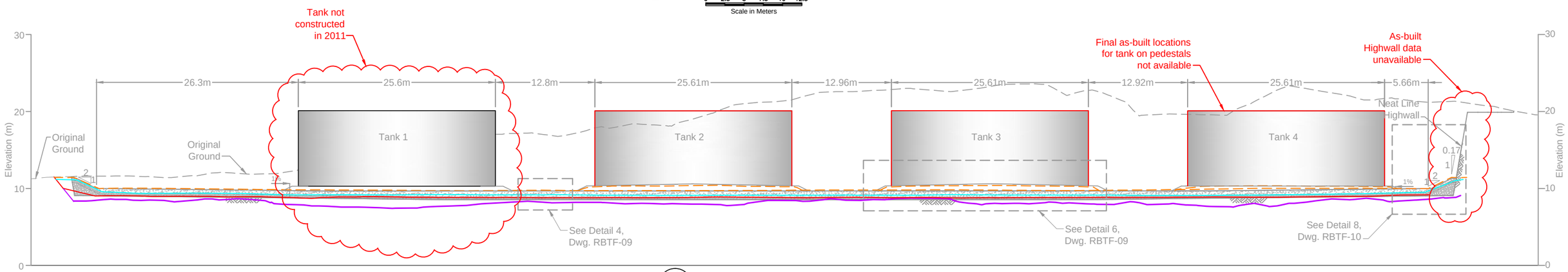
Notes:

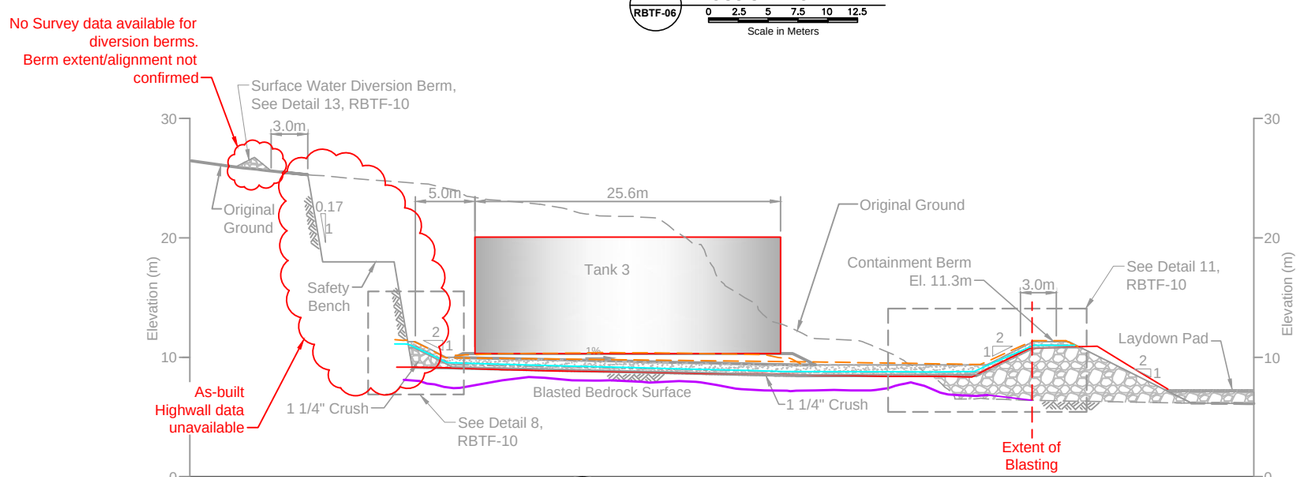
1. Select ROQ substituted for 1¼" crushed material.



C RBTF-06 **CROSS SECTION C - C'**
Center Line of Access Ramp
0 2.5 5 7.5 10 12.5
Scale in Meters



D RBTF-06 **CROSS SECTION D - D'**
0 2.5 5 7.5 10 12.5
Scale in Meters



E RBTF-06 **CROSS SECTION E - E'**
0 2.5 5 7.5 10 12.5
Scale in Meters

LEGEND

- ¾" Crushed Material
- 1¼" Crushed Material
- ROQ
- As-built 3/4" Crush Material
- As-built Select ROQ
- As-built Excavation
- As-built Liner System

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE

REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
AB	As-builts	MMM	EMR	18Apr12
1	Tanks Moved	JBK	EMR	09Jun11
0	Issued for Construction	JBK	EMR	06Apr11
C	Issued for Review	JBK	EMR	11Mar11
B	Never Issued	MK	EMR	27Sep10
A	Issued for Comment	AT	EMR	27Apr10

REVISIONS

This drawing is uncontrolled when printed unless stamped and signed with original ink and recorded on a Distribution Register.

PROFESSIONAL ENGINEER'S STAMP

srk consulting

DESIGN: JBK/MMM	DRAWN: DC/LR	REVIEWED: LW
CHECKED: MMM	APPROVED: EMR	DATE: Apr. 18, 2012

FILE NAME: RBTF–Sections.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LTD.

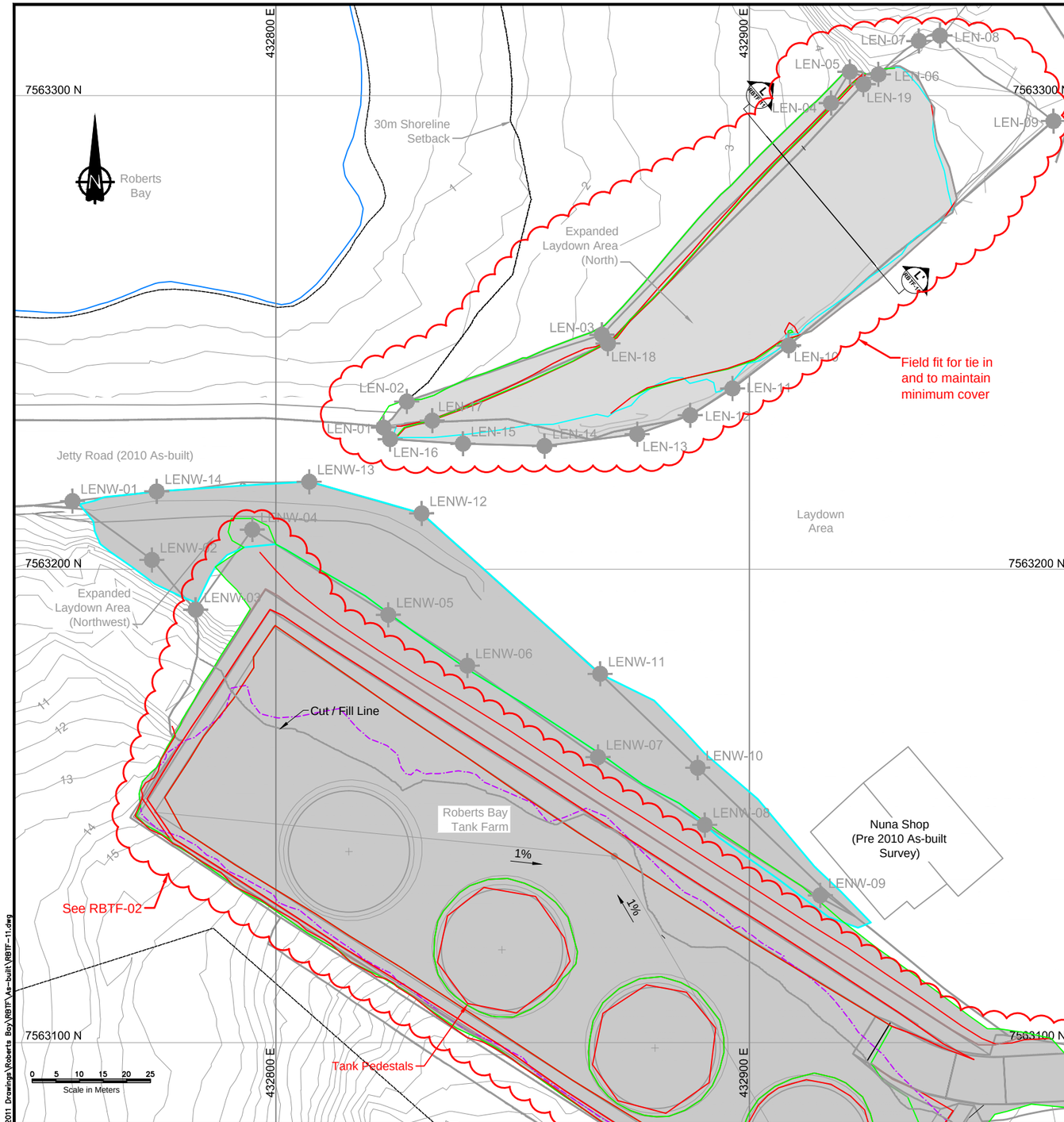
SRK JOB NO.: 1CH008.058 SRK DWG NO.: RBTF-07

Doris North Project

DRAWING TITLE:
Fuel Tank Farm
Sections
Sheet 1 of 2

NEWMONT DRAWING NO. HB+R-CIV-CIV-OND-0030 | SHEET 8 OF 13 | REVISION NO. AB

J:\01_SITES\Hope_Bay\ACAD\2011 Drawings\Roberts Bay\RBTF\As-built\RBTF-Sections.dwg



NORTHWEST LAYDOWN EXPANSION STAKE OUT POINTS			
ID	Northing	Easting	Elev. (m)
LENW-01	7563214.37	432757.02	6.10
LENW-02	7563201.95	432773.79	6.15
LENW-03	7563191.44	432783.05	6.29
LENW-04	7563208.35	432795.00	6.40
LENW-05	7563190.35	432823.72	6.50
LENW-06	7563179.62	432840.42	6.90
LENW-07	7563160.31	432868.03	7.00
LENW-08	7563145.99	432890.58	7.20
LENW-09	7563131.10	432914.98	7.47
LENW-10	7563158.06	432889.08	7.05
LENW-11	7563177.89	432868.48	6.20
LENW-12	7563211.77	432830.77	5.38
LENW-13	7563218.46	432807.03	5.95
LENW-14	7563216.42	432774.80	6.00

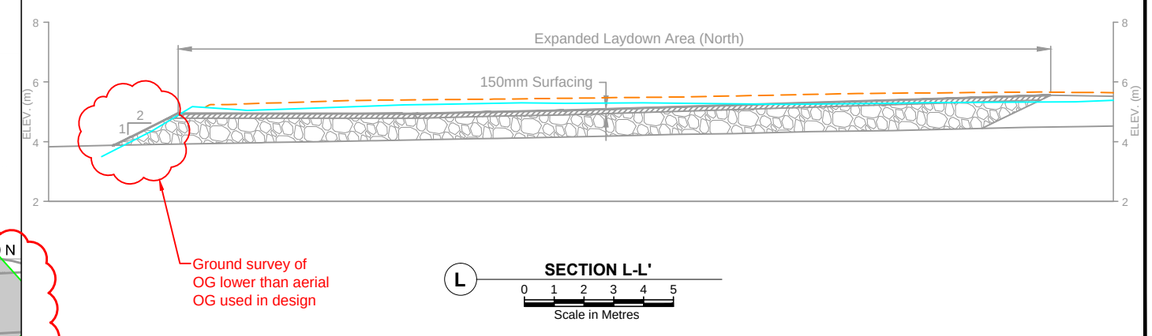
NORTH LAYDOWN EXPANSION STAKE OUT POINTS			
ID	Northing	Easting	Elev. (m)
LEN-01	7563229.64	432822.90	4.55
LEN-02	7563235.40	432827.64	2.45
LEN-03	7563249.49	432868.87	2.92
LEN-04	7563298.44	432917.26	4.48
LEN-05	7563305.05	432921.23	5.04
LEN-06	7563304.48	432927.26	7.06
LEN-07	7563311.56	432935.79	6.63
LEN-08	7563312.69	432940.27	7.47
LEN-09	7563294.64	432964.24	6.74
LEN-10	7563247.23	432908.30	4.98
LEN-11	7563238.16	432896.44	4.70
LEN-12	7563232.50	432887.50	4.00
LEN-13	7563228.50	432876.31	4.00
LEN-14	7563226.00	432856.72	4.00
LEN-15	7563226.50	432839.50	4.00
LEN-16	7563227.46	432824.11	5.57
LEN-17	7563231.37	432833.01	5.27
LEN-18	7563247.66	432870.12	4.00
LEN-19	7563302.38	432924.09	7.00

NOTES:

1. Quarried Rock from the tank farm area will be used to construct the laydown expansion areas. Excess rock will be used at other areas of the site, if applicable.
2. Laydown expansion areas will tie into the existing crest of the as-built laydown pad to ensure a smooth transition and prevent ponding of water in low areas.
3. Based on available as-built data, portions of existing Robert's Bay Laydown area are expected to be slightly under the minimum 1m pad thickness. Transition into existing laydown will be field fit to ensure a smooth transition and uphold minimum permafrost protection.
4. Stake-out table presented above are to final surface grade; 0.15m of 1¼" crush should overly the placed ROQ (i.e. ROQ grades are 0.15m below the stake-out elevations listed above).

LEGEND

- As-built 3/4" Crush Material
- As-built ROQ Limits
- As-built Toe
- As-built Crest
- Extent of Excavation



DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE

REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
AB	As-built	MMM	EMR	18Apr12
2	Tanks Moved	JBK	EMR	09Jun11
1	North Laydown Added	JBK	EMR	09May11
0	Issued for Construction	JBK	EMR	06Apr11
A	Issued for Review	JBK	EMR	11Mar11

REVISIONS

This drawing is uncontrolled when printed unless stamped and signed with original ink and recorded on a Distribution Register.

PROFESSIONAL ENGINEER'S STAMP

srk consulting

DESIGN: JBK | DRAWN: LR | REVIEWED: EMR
CHECKED: MMM | APPROVED: EMR | DATE: Apr. 18, 2012
FILE NAME: RBTF-11.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LTD.

SRK JOB NO.: 1CH008.033 | SRK DWG NO.: RBTF-11

Doris North Project

DRAWING TITLE: Roberts Bay Preliminary Laydown Expansion

NEWMONT DRAWING NO.: HB+R-CIV-CIV-OND-0048 | SHEET 12 OF 13 | REVISION NO. AB

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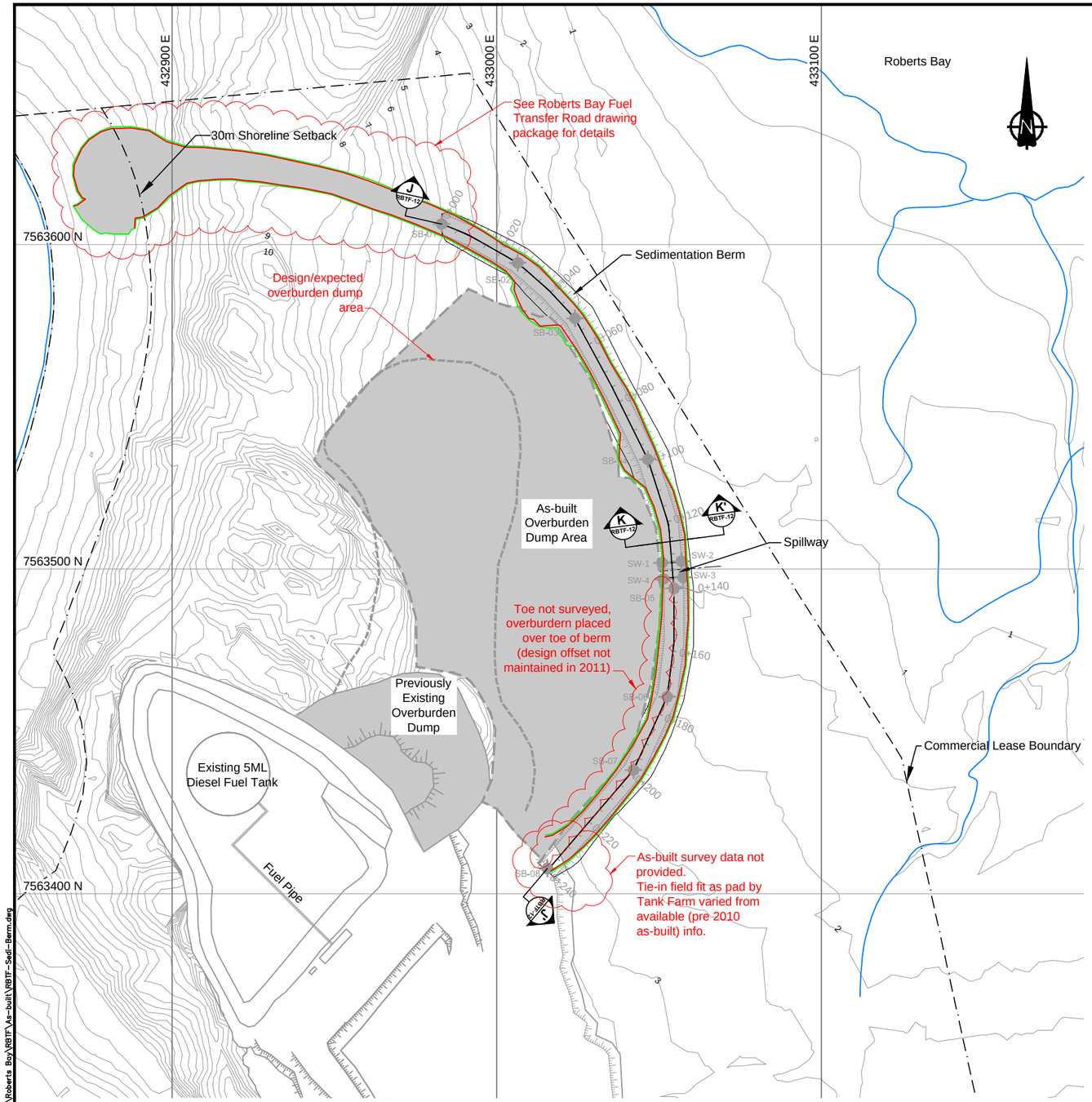


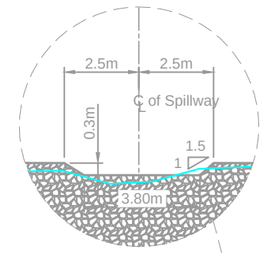
PLAN

0 7.5 15 22.5 30 37.5

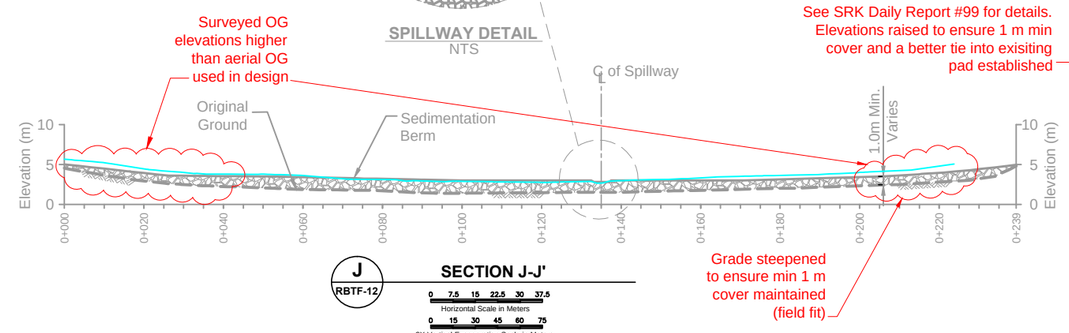
Scale in Meters

SEDIMENTATION BERM STAKE OUT POINTS			
ID	Northing	Easting	Elev. (m)
SB-01	7563606.32	432983.03	5.00
SB-02	7563594.32	433006.44	4.00
SB-03	7563577.23	433024.08	4.00
SB-04	7563533.76	433046.56	3.00
SB-05	7563494.07	433054.59	3.00
SB-06	7563460.68	433052.51	3.00
SB-07	7563438.11	433042.13	3.50
SB-08	7563407.80	433015.62	5.00
SPILLWAY STAKE OUT POINTS			
ID	Northing	Easting	Elev. (m)
SW-1	7563501.94	433050.92	3.00
SW-2	7563502.44	433056.90	3.00
SW-3	7563497.46	433057.32	3.00
SW-4	7563496.96	433051.34	3.00

See SRK Daily Report #99 for details. Elevations raised to ensure 1 m min cover and a better tie into exisiting pad established



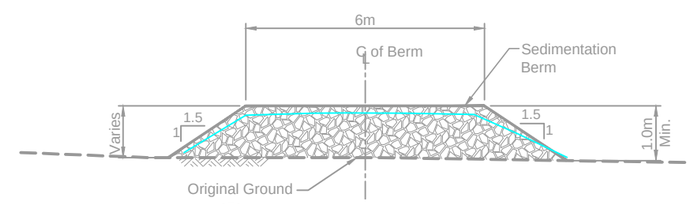
SPILLWAY DETAIL
NTS



J
RBTF-12

SECTION J-J'

0 7.5 15 22.5 30 37.5
Horizontal Scale in Meters
0 15 30 45 60 75
2X Vertical Exaggeration Scale in Meters



K
RBTF-12

SECTION K-K'

0 0.75 1.5 2.25 3 3.75
Scale in Meters

NOTES:

1. Overburden material should be placed in lifts not exceeding 1.5m in thickness. The overall final slope of the overburden pile should not exceed 3H:1V.
2. The overburden storage shall have minimum setback of 15m away from the Sedimentation Control Berm and above elevation 2.8m. (Offset not maintained in 2011)
3. The Contractor shall employ best management practices to ensure sediment control and to prevent erosion from the overburden stockpile.

LEGEND:

- 1 1/4" Crush or Select ROQ
- Stream / Waterbody
- As-built Select ROQ
- As-built Toe
- As-built Crest

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
–	–		

REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
AB	As-built	JBK	EMR	18Apr12
0	Issued for Construction	JBK	EMR	06Apr11
B	Issued for Review	JBK	EMR	11Mar11
A	Never Issued	MK	EMR	27Sep10

REVISIONS

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PROFESSIONAL ENGINEER'S STAMP

srk consulting

DESIGN: JBK/MMM	DRAWN: LR	REVIEWED: JBK
CHECKED: MMM	APPROVED: EMR	DATE: Apr. 18, 2012

FILE NAME: RBTF–Sedi–Berm.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LTD.

SRK JOB NO.: 1CH008.033 SRK DWG NO.: RBTF-12

Doris North Project

DRAWING TITLE:

Roberts Bay Overburden Storage Area and Sedimentation Control Berm

NEWMONT DRAWING NO. HB+R-CIV-CIV-OND-0039

SHEET 13 OF 13

REVISION NO. AB

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Engineering Drawings for the Roberts Bay Fuel Transfer Access Road Doris North Project, Nunavut, Canada

ACTIVE DRAWING STATUS

SRK DWG NUMBER	NEWMONT DWG NUMBER	DRAWING TITLE	REVISION	DATE	STATUS	OLD/REPLACED REVISIONS		
RB-FAR-00	HB-R-CIV-CIV-OND-055	Engineering Drawings for the Roberts Bay Fuel Transfer Access Road	AB	May 04, 2012	2011 As-built	Rev. 2, Aug. 09, 2011	Rev. 1, Aug. 03, 2011	Rev. 0, July 26, 2011
RB-FAR-01	HB-R-CIV-CIV-OND-056	Roberts Bay Fuel Transfer Access Road General Arrangement	AB	May 04, 2012	2011 As-built	Rev. 2, Aug. 09, 2011	Rev. 1, Aug. 03, 2011	Rev. 0, July 26, 2011
RB-FAR-02	HB-R-CIV-CIV-OND-057	Roberts Bay Fuel Transfer Access Road Details	AB	May 04, 2012	2011 As-built	Rev. 2, Aug. 09, 2011	Rev. 1, Aug. 03, 2011	Rev. 0, July 26, 2011

HOPE BAY MINING LTD.

srk consulting

PROJECT NO: 1CH008.033
2011 As-built
Revision AB
May 04, 2012
RB-FAR-00/HB-R-CIV-CIV-OND-055

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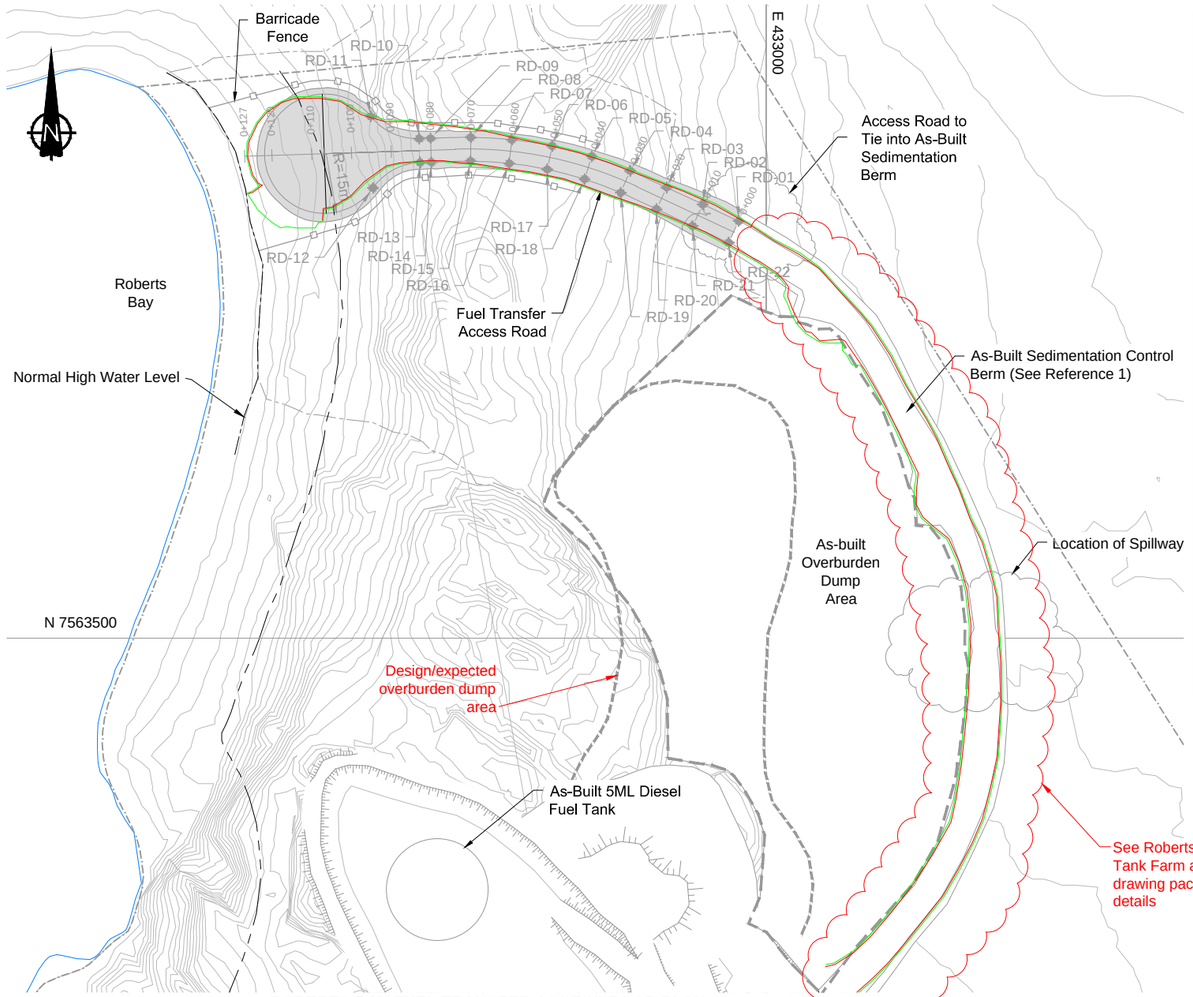


ROBERTS BAY FUEL TRANSFER ACCESS ROAD PLAN

0 5 10 15 20 25
Scale in Metres

ACCESS ROAD - STAKEOUT POINTS			
ID	Northing	Easting	Elevation (m)
0+000	7563602.206	432991.804	5.77
0+010	7563606.433	432982.741	6.41
0+020	7563610.660	432973.678	7.05
0+030	7563614.846	432964.597	8.20
0+040	7563618.336	432955.226	9.22
0+050	7563620.872	432945.553	9.85
0+060	7563622.430	432935.675	10.03
0+070	7563622.993	432925.691	9.68
0+080	7563622.745	432915.694	8.91
0+090	7563622.423	432905.699	7.14
0+100	7563622.100	432895.704	5.05
0+106.85	7563621.880	432888.871	3.82
RD-01	7563604.925	432993.072	5.76
RD-02	7563609.152	432984.009	6.40
RD-03	7563613.378	432974.947	7.03
RD-04	7563617.601	432965.783	8.19
RD-05	7563621.195	432956.135	9.21
RD-06	7563623.807	432946.176	9.83
RD-07	7563625.412	432936.007	10.02

ACCESS ROAD - STAKEOUT POINTS			
ID	Northing	Easting	Elevation (m)
RD-08	7563625.993	432925.727	9.67
RD-09	7563625.744	432915.615	8.90
RD-10	7563625.652	432912.762	8.55
RD-11	7563631.262	432900.575	6.68
RD-12	7563613.272	432901.155	6.29
RD-13	7563619.655	432912.956	8.56
RD-14	7563619.748	432915.808	8.90
RD-15	7563619.993	432925.688	9.67
RD-16	7563619.446	432935.369	10.02
RD-17	7563617.934	432944.946	9.83
RD-18	7563615.474	432954.325	9.21
RD-19	7563612.090	432963.411	8.19
RD-20	7563607.941	432972.410	7.03
RD-21	7563603.714	432981.473	6.40
RD-22	7563599.487	432990.536	5.76

NOTES

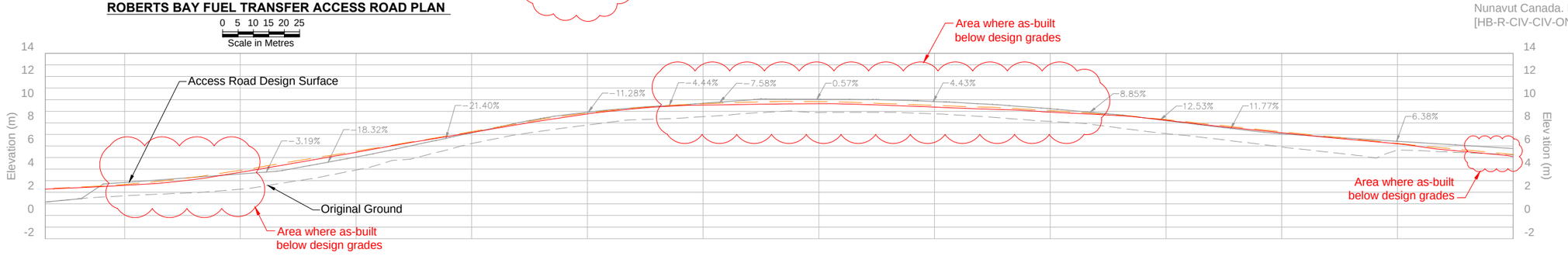
1. The designs are based on the contour information shown on these drawings. It is however the Contractor's responsibility to confirm that the contours are a fair reflection of the ground levels in the vicinity of the works, and to advise the Construction Manager and Engineer of any differences.
2. The co-ordinate system is UTM NAD 83, Zone 13.
3. All dimensions are in metric units, unless specifically mentioned.
4. All drawings are scaled appropriately for D-Size construction drawings. Scales may not be correct if these drawings are reproduced and presented in any other size format.
5. The Engineer will provide the Construction Manager and Contractor with digital design files for setting out the works. The Engineer will instruct the Contractor to survey random spot checks to confirm whether the works have been set out correct.
6. Construction shall be in accordance with the following Technical Specifications: Earthworks and Geotechnical Engineering, Hope Bay project, Nunavut, Canada, Revision G -Issue for Construction.
7. Access Road is intended for temporary use by light vehicle only.
8. Barricade fence to be installed from chainage 0+050 to normal high water level 2m away from the toes of the access road. Barricade fence to be installed and maintained during construction and fuel off loading operations.
9. Notes in this drawing apply to all other active drawings.

LEGEND

- New Infrastructure
- Commercial lease boundary
- 30m shoreline setback
- Normal High Water Level
- Barricade Fence
- As-built Crush
- As-built ROQ
- RD-14 Survey Stakeout Point
- As-built Crest (2011 As-built)
- As-built Toe (2011 As-built)

REFERENCE

1. For detail design of Roberts Bay Overburden Storage Area and sedimentation control berm, see Engineering Drawings for the Roberts Bay Fuel Tank Farm, Doris North Project, Nunavut Canada. Drawing RBTF-12 [HB-R-CIV-CIV-OND-039] Rev 0 April 6, 2011.



ROBERTS BAY FUEL TRANSFER ACCESS ROAD PROFILE

0 2 4 6 8 10
Scale in Metres

PROFILE LEGEND

6.1% Grade

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE

REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
AB	AS-BUILT	JBK	EMR	04May12
2	Vertical Profile Revised	BFM	LW	09Aug11
1	Addition of Barricade Fence	LW	EMR	03Aug11
0	Issued for Construction	MMM	EMR	26Jul11
A	Issued for Discussion	MMM	EMR	22Jul11

REVISIONS

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PROFESSIONAL ENGINEER'S STAMP

srk consulting

DESIGN: MMM | DRAWN: MDDS | REVIEWED: EMR
CHECKED: BFM/JBK | APPROVED: LW | DATE: May 04, 2012
FILE NAME: 1CH008.033-000-PLN-RBFAR01-REV_AB.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LTD.

SRK JOB NO.: 1CH008.033/.058 | SRK DWG NO.: RB-FAR-01

Doris North Project

DRAWING TITLE:
Roberts Bay Fuel Transfer
Access Road General Arrangement

NEWMONT DRAWING NO. HB-R-CIV-CIV-OND-056 | SHEET 2 OF 3 | REVISION NO. AB

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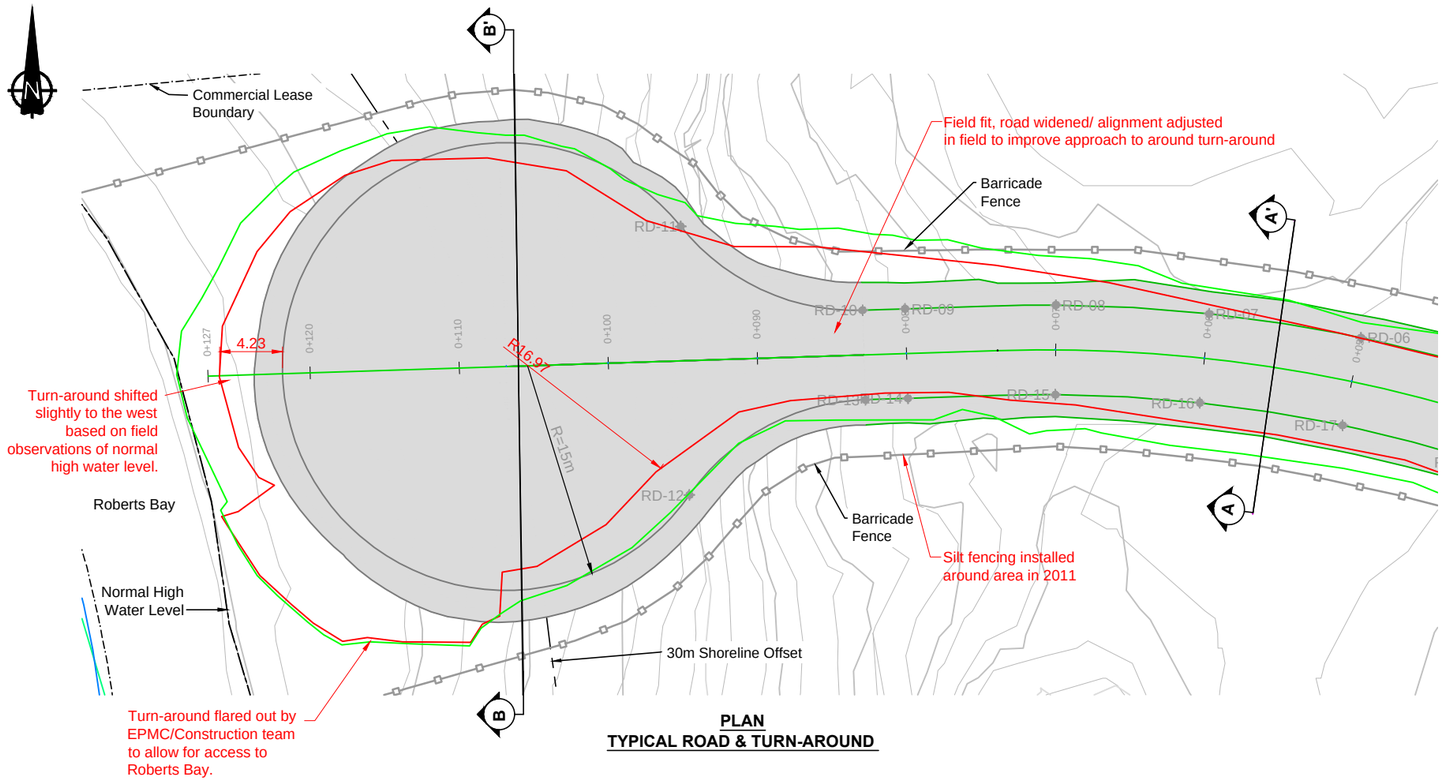
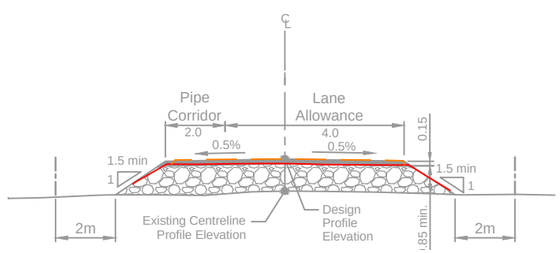


PLAN
TYPICAL ROAD & TURN-AROUND

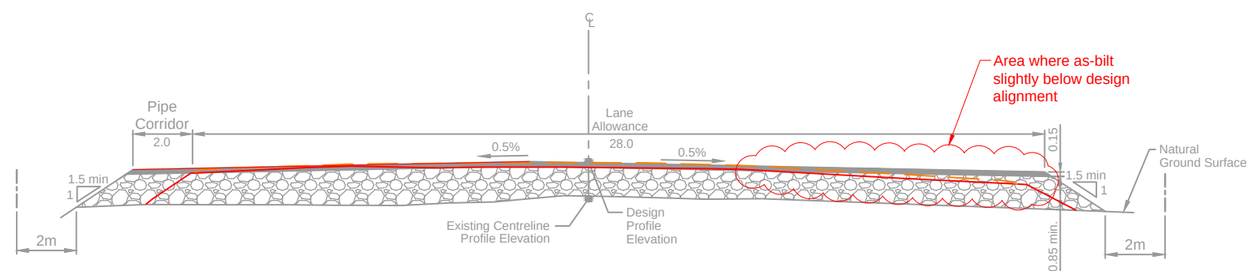
Materials List and Quantities

Item	Quantity / Area / Volume		Description
1. Run of Quarry Material	Road Expansion	1600 m^3	Approximate In-Place Neat-line Volume (Includes Turn-Around)
2. Surface Grade Material	Road Expansion	200 m^3	Approximate In-Place Neat-line Volume (Includes Turn-Around)
3. Barricade Fence	North Side of Access Road South Side of Access Road Total	103 m 87 m 190 m	Approximate In-Place Length



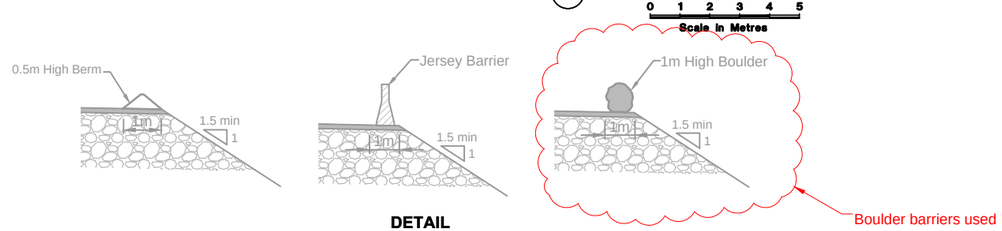
A **TYPICAL ROAD SECTION**

0 1 2 3 4 5
Scale in Metres



B **TYPICAL ROAD WITH TURN-AROUND SECTION**

0 1 2 3 4 5
Scale in Metres



DETAIL
TYPICAL CREST BARRIERS OPTIONS

LEGEND

- Surfacing Material
- Run of Quarry Material
- As-built Crush
- As-built ROQ
- As-built Crest (2011 As-built)
- As-built Toe (2011 As-built)

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
REFERENCE DRAWINGS			

NO.	DESCRIPTION	CHK'D	APP'D	DATE
AB	As-built	JBK	EMR	04May12
2	Vertical Profile Revised	BFM	LW	09Aug11
1	Addition of Barricade Fence	LW	EMR	03Aug11
0	Issued for Construction	MMM	EMR	26Jul11
A	Issued for Discussion	MMM	EMR	22Jul11

REVISIONS

This drawing is uncontrolled when printed unless stamped and signed with original ink and recorded on a Distribution Register.

PROFESSIONAL ENGINEER'S STAMP

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DESIGN: MMM	DRAWN: MDDS	REVIEWED: EMR
CHECKED: BFM/JBK	APPROVED: LW	DATE: May 04, 2012

FILE NAME: 1CH008.033-000-DET-RBFAR02-REV_AB.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LTD.

SRK JOB NO.: 1CH008.033/.058 SRK DWG NO.: RB-FAR-02

Doris North Project

DRAWING TITLE:
Roberts Bay Fuel Transfer Access Road Details

NEWMONT DRAWING NO.	SHEET	REVISION NO.
HB-R-CIV-CIV-OND-057	3 OF 3	AB

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Engineering Drawings for the Roberts Bay Fuel Tank Farm, Doris North Project, Nunavut, Canada

ACTIVE DRAWING STATUS

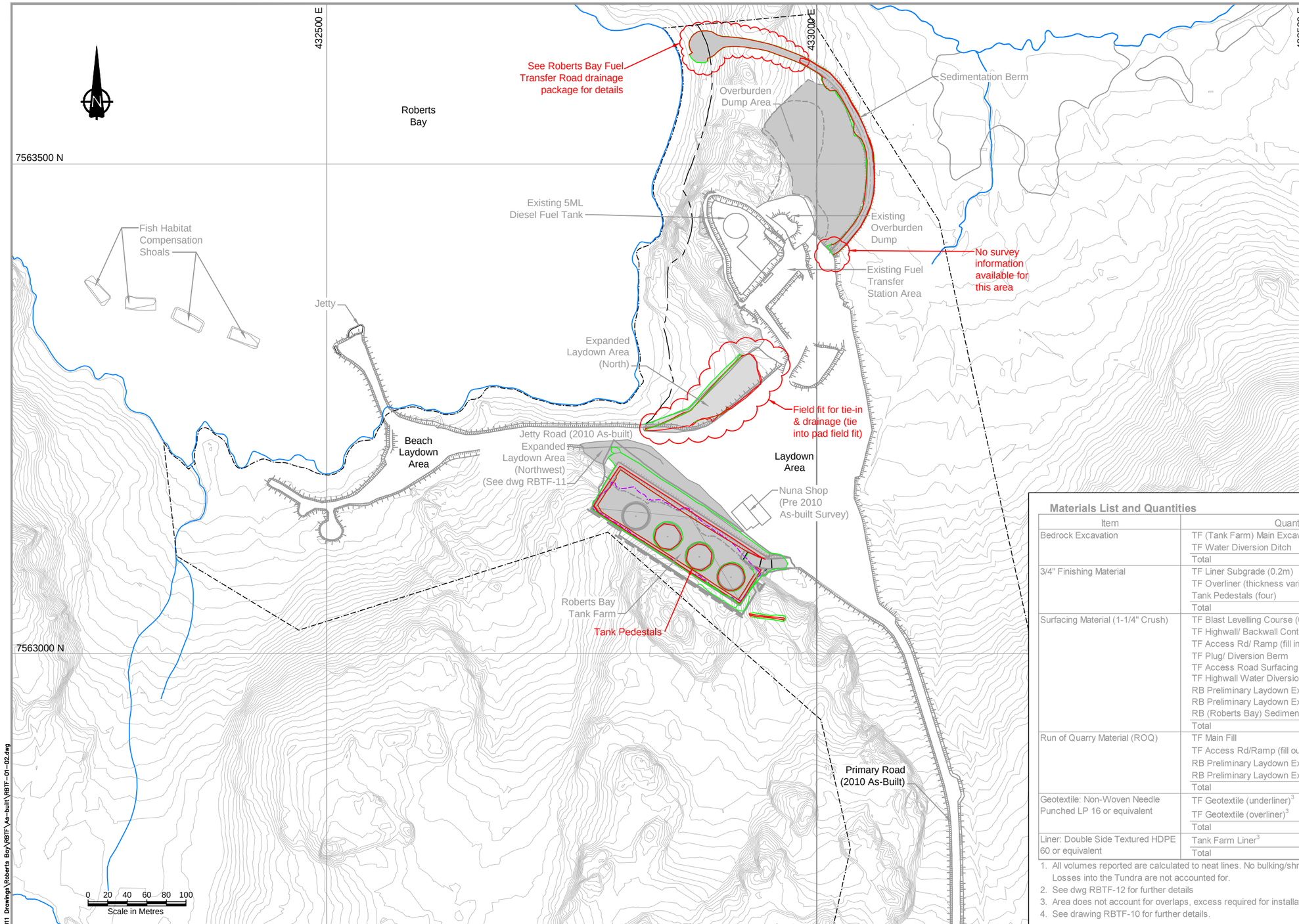
DWG NUMBER	NEWMONT DWG NUMBER	DRAWING TITLE	REVISION	DATE	STATUS	OLD/REPLACED REVISIONS			
RBTF-00	HB+R-CIV-CIV-OND-0027	Engineering Drawings for the Roberts Bay Fuel Tank Farm	AB1	May 18, 2012	As-built	Rev. 2, June 9, 2011	Rev. 1, May 9, 2011	Rev. 0, Apr. 6, 2011	Rev. C, Mar. 11, 2011
RBTF-01	HB+R-CIV-CIV-OND-0028	Fuel Tank Farm General Arrangement	AB1	May 18, 2012	As-built	Rev. 2, June 9, 2011	Rev. 1, May 9, 2011	Rev. 0, Apr. 6, 2011	Rev. C, Mar. 11, 2011
RBTF-02	HB+R-CIV-CIV-OND-0029	Fuel Tank Farm Plan Layout	AB1	May 18, 2012	As-built	Rev. 2, June 9, 2011	Rev. 1, May 9, 2011	Rev. 0, Apr. 6, 2011	Rev. C, Mar. 11, 2011
RBTF-03	HB+R-CIV-CIV-OND-0042	Fuel Tank Farm Bedrock Excavation	1	June 9, 2011	Issued for Construction	Rev. 0, Apr. 6, 2011	Rev. A, Mar. 11, 2011		
RBTF-04	HB+R-CIV-CIV-OND-0043	Fuel Tank Farm Subgrade Plan	AB	Apr. 18, 2012	2011 As-built	Rev. 1, June 9, 2011	Rev. 0, Apr. 6, 2011	Rev. A, Mar. 11, 2011	
RBTF-05	HB+R-CIV-CIV-OND-0044	Fuel Tank Farm Subgrade Sections and Details	AB	Apr. 18, 2012	2011 As-built	Rev. 0, Apr. 6, 2011	Rev. A, Mar. 11, 2011		
RBTF-06	HB+R-CIV-CIV-OND-0045	Fuel Tank Farm Final Layout Plan (with Stake Out Points)	AB1	May 18, 2012	As-built	Rev. 2, June 9, 2011	Rev. 0, Apr. 6, 2011	Rev. A, Mar. 11, 2011	
RBTF-07	HB+R-CIV-CIV-OND-0030	Fuel Tank Farm Sections Sheet 1 of 2	AB	Apr. 18, 2012	2011 As-built	Rev. 1, June 9, 2011	Rev. 1, June 9, 2011	Rev. 0, Apr. 6, 2011	Rev. C, Mar. 11, 2011
RBTF-08	HB+R-CIV-CIV-OND-0046	Fuel Tank Farm Sections Sheet 2 of 2	0	April 6, 2011	Issued for Construction	Rev. A, Mar. 11, 2011			
RBTF-09	HB+R-CIV-CIV-OND-0031	Fuel Tank Farm Details Sheet 1 of 2	1	June 9, 2011	Issued for Construction	Rev. 0, Apr. 6, 2011	Rev. C, Mar. 11, 2011	Rev. B, Sept. 27, 2010	Rev. A, April 27, 2010
RBTF-10	HB+R-CIV-CIV-OND-0047	Fuel Tank Farm Details Sheet 2 of 2	0	April 6, 2011	Issued for Construction	Rev. A, Mar. 11, 2011			
RBTF-11	HB+R-CIV-CIV-OND-0048	Roberts Bay Preliminary Laydown Expansion	AB	Apr. 18, 2012	2011 As-built	Rev. 2, June 9, 2011	Rev. 1, May 9, 2011	Rev. 0, Apr. 6, 2011	Rev. A, Mar. 11, 2011
RBTF-12	HB+R-CIV-CIV-OND-0039	Roberts Bay Overburden Storage Area and Sedimentation Control Berm	AB	Apr. 18, 2012	2011 As-built	Rev. 0, April 6, 2011	Rev. B, Mar. 11, 2011	Rev. A, Sept. 27, 2010	

HOPE BAY MINING LTD.

srk consulting

PROJECT NO: 1CH008.058
As-built
Revision AB1
May 18, 2012
RBTF-00 / HB+R-CIV-CIV-OND-0027

J:\01_SITES\Hope.Bay\IACAD\2011 Drawings\Roberts Bay\RBTF\As-built\RB_Cover Page.dwg



NOTES

1. The designs are based on the contour information shown on these drawings. It is however the Contractor's responsibility to confirm that the contours are a fair reflection of the ground levels in the vicinity of the works, and to advise the Construction Manager and Engineer of any differences.
2. The co-ordinate system is UTM NAD 83, Zone 13.
3. All dimensions are in metric units, unless specifically mentioned.
4. All drawings are scaled appropriately for D-Size construction drawings. Scales may not be correct if these drawings are reproduced and presented in any other size format.
5. The Engineer will provide the Construction Manager and Contractor with digital design files for setting out the works. The Engineer will instruct the Contractor to survey random spot checks to confirm whether the works have been set out correct.
6. Construction shall be in accordance with the following Technical Specifications: Earthworks and Geotechnical Engineering, Hope Bay project, Nunavut, Canada, Revision G -Issue for Construction.
7. Quarried rock from the tank farm area will be used to construct the laydown expansive areas. Excess rock will be used at other areas of the site.
8. Notes in this drawing apply to all other active drawings.

LEGEND

- New Infrastructure (constructed in 2011)
- Commercial Lease Boundary
- 30m Shoreline Setback
- As-built Crest
- As-built Toe
- As-built Cut/Fill Line

Materials List and Quantities

Item	Quantity/Area/Volume		Description[1]
Bedrock Excavation	TF (Tank Farm) Main Excavation	75,500 m³	Volumes derived from Gemcom (Gems 6.3) model.
	TF Water Diversion Ditch	5 m³	
	Total	75,505 m³	
3/4" Finishing Material	TF Liner Subgrade (0.2m)	2,110 m³	Volumes derived from Gemcom (Gems 6.3) model.
	TF Overliner (thickness varies)	5,455 m³	
	Tank Pedestals (four)	1,596 m³	
	Total	9,151 m³	
Surfacing Material (1-1/4" Crush)	TF Blast Levelling Course (0.15m)	1,160 m³	Volumes derived from Gemcom (Gems 6.3) model.
	TF Highwall/ Backwall Containment Berm	790 m³	
	TF Access Rd/ Ramp (fill inside containment)	190 m³	
	TF Plug/ Diversion Berm	15 m³	
	TF Access Road Surfacing (outside continment)	45 m³	Calculated from ACAD 2011
	TF Highwall Water Diversion Berm[4]	300 m³	~ Hand calculation to neat lines
	RB Preliminary Laydown Expansion Northwest	380 m³	Calculated from ACAD 2011
	RB Preliminary Laydown Expansion North	517 m³	Calculated from ACAD 2011
	RB (Roberts Bay) Sedimentation Berm[2]	2,500 m³	Volumes derived from CIVIL 3D
	Total	5,897 m³	
Run of Quarry Material (ROQ)	TF Main Fill	12,355 m³	Volumes derived from Gemcom (Gems 6.3) model.
	TF Access Rd/Ramp (fill outside of containment)	410 m³	
	RB Preliminary Laydown Expansion Northwest	2,365 m³	Volumes derived from CIVIL 3D
	RB Preliminary Laydown Expansion North	4,341 m³	Volumes derived from CIVIL 3D
	Total	19,471 m³	
Geotextile: Non-Woven Needle Punched LP 16 or equivalent	TF Geotextile (underliner)[3]	10,300 m²	Areas derived from Gemcom (Gems 6.3) model.
	TF Geotextile (overliner)[3]	10,300 m²	
	Total	20,600 m²	
Liner: Double Side Textured HDPE 60 or equivalent	Tank Farm Liner[3]	10,300 m²	Areas derived from Gemcom (Gems 6.3) model.
	Total	10,300 m²	

1. All volumes reported are calculated to neat lines. No bulking/shrinking factor have been utilized in the volume determination. Losses into the Tundra are not accounted for.
2. See dwg RBTF-12 for further details
3. Area does not account for overlaps, excess required for installation or for any deviation from neat design lines
4. See drawing RBTF-10 for further details.

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE

REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
AB1	AS-BUILT	MMM	EMR	18May12
AB	AS-BUILT	JBK	EMR	18Apr12
2	Tanks Moved	JBK	EMR	09Jun11
1	North Laydown Added	JBK	EMR	09May11
0	Issued for Construction	JBK	EMR	06Apr11
C	Issued for Review	JBK	EMR	11Mar11
B	Never Issued	AT	EMR	27Sep10
A	Issued for Comments	AT	EMR	27Apr10

REVISIONS

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PROFESSIONAL ENGINEER'S STAMP

srk consulting

DESIGN: JBK/AT	DRAWN: NV/DC/LR	REVIEWED: EMR
CHECKED: MMM	APPROVED: EMR	DATE: May 18, 2012

FILE NAME: RBTF-01-02.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LTD.

SRK JOB NO.: 1CH008.058 SRK DWG NO.: RBTF-01

Doris North Project

DRAWING TITLE:

Fuel Tank Farm
General Arrangement

NEWMONT DRAWING NO. HB+R-CIV-CIV-OND-0028

SHEET 2 OF 13

REVISION NO. AB1

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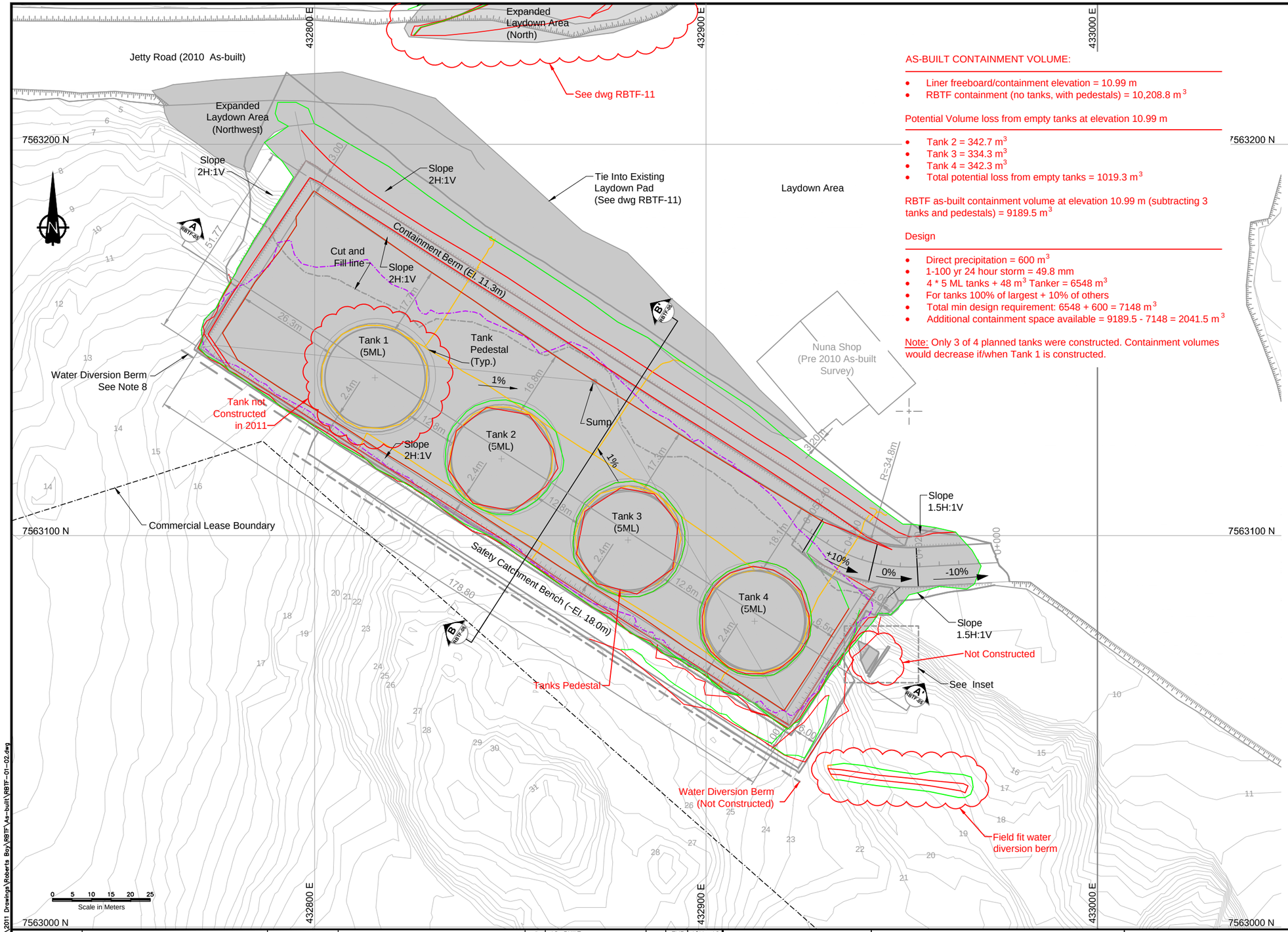


AS-BUILT CONTAINMENT VOLUME:

- Liner freeboard/containment elevation = 10.99 m
- RBTF containment (no tanks, with pedestals) = 10,208.8 m^3

Potential Volume loss from empty tanks at elevation 10.99 m

- Tank 2 = 342.7 m^3
- Tank 3 = 334.3 m^3
- Tank 4 = 342.3 m^3
- Total potential loss from empty tanks = 1019.3 m^3

RBTF as-built containment volume at elevation 10.99 m (subtracting 3 tanks and pedestals) = 9189.5 m^3

Design

- Direct precipitation = 600 m^3
- 1-100 yr 24 hour storm = 49.8 mm
- 4 * 5 ML tanks + 48 m^3 Tanker = 6548 m^3
- For tanks 100% of largest + 10% of others
- Total min design requirement: 6548 + 600 = 7148 m^3
- Additional containment space available = 9189.5 - 7148 = 2041.5 m^3

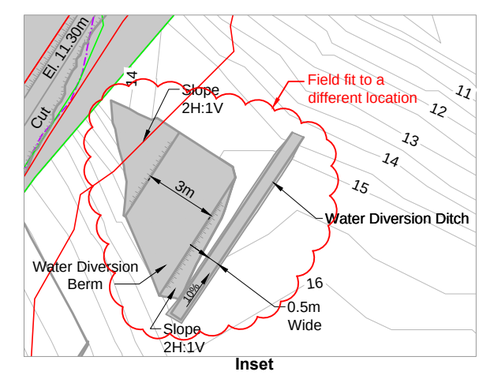
Note: Only 3 of 4 planned tanks were constructed. Containment volumes would decrease if/when Tank 1 is constructed.

NOTES:

1. The Roberts Bay Tank Farm is to be constructed on a graded engineered fill pad over an intact bedrock surface.
2. The bedrock surface shall be drill and blasted to specified elevation. The finished grade of the blasted bedrock surface has a maximum tolerance of -0.3m.
3. The Contractor shall ensure the blasted floor has natural drainage and minimal ponding water.
4. All blasted material shall be excavated to the expose intact rock surface for survey and approval from the EPCM team and the Engineer.
5. The scope of work described herein specifically excludes all electrical and mechanical elements.
6. Tanks 1 to 4 will be designed and constructed by Others and will only be operational once the appropriate regulatory approvals have been put in place. The grounding of the tanks will be designed and installed by Others.
7. The Roberts Bay Tank Farm Design is based on and meets the standards from Canadian Council of Ministers of Environment (CCME), National Fire Code of Canada (2010) and Newmont Environmental Standards.
8. The exact location of the highwall water diversion is to be field fit to ensure drainage is directed away from highwall. See typical detail 13 on dwg RBTF-10 for additional berm details.
9. Ramp access shall be restricted, for light maintenance vehicles only.
10. Water Diversion Berm side slope to be field fit to ensure no ponding and drainage directed towards diversion ditch.
11. The Owner will install appropriate signage and barricade to prevent any vehicle access within the secondary catchment area other than on the ram
12. The tank locations and inter-tank spacing has been provided by others.

LEGEND

- As-built Cut/fill Line
- As-built Crest
- As-built Toe
- Grounding Cables



Inset
Diversion Berm and Ditch

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
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REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
AB1	AS-BUILT	MMM	EMR	18May12
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C	Issued for Review	JBK	EMR	11Mar11
B	Never Issued	MK	EMR	27Sep10
A	Issued for Comments	AT	EMR	27Apr10

REVISIONS

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PROFESSIONAL ENGINEER'S STAMP

srk consulting

DESIGN: AT/JBK/MMM	DRAWN: NV/DC/LR	REVIEWED: EMR
CHECKED: AT/JBK/MMM	APPROVED: EMR	DATE: May 18, 2012

FILE NAME: RBTF-01-02.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LTD.

SRK JOB NO.: 1CH008.033 SRK DWG NO.: RBTF-02

Doris North Project

DRAWING TITLE: Fuel Tank Farm Plan Layout

NEWMONT DRAWING NO. HB+R-CIV-CIV-OND-0029 | SHEET 3 OF 13 | REVISION NO. AB1

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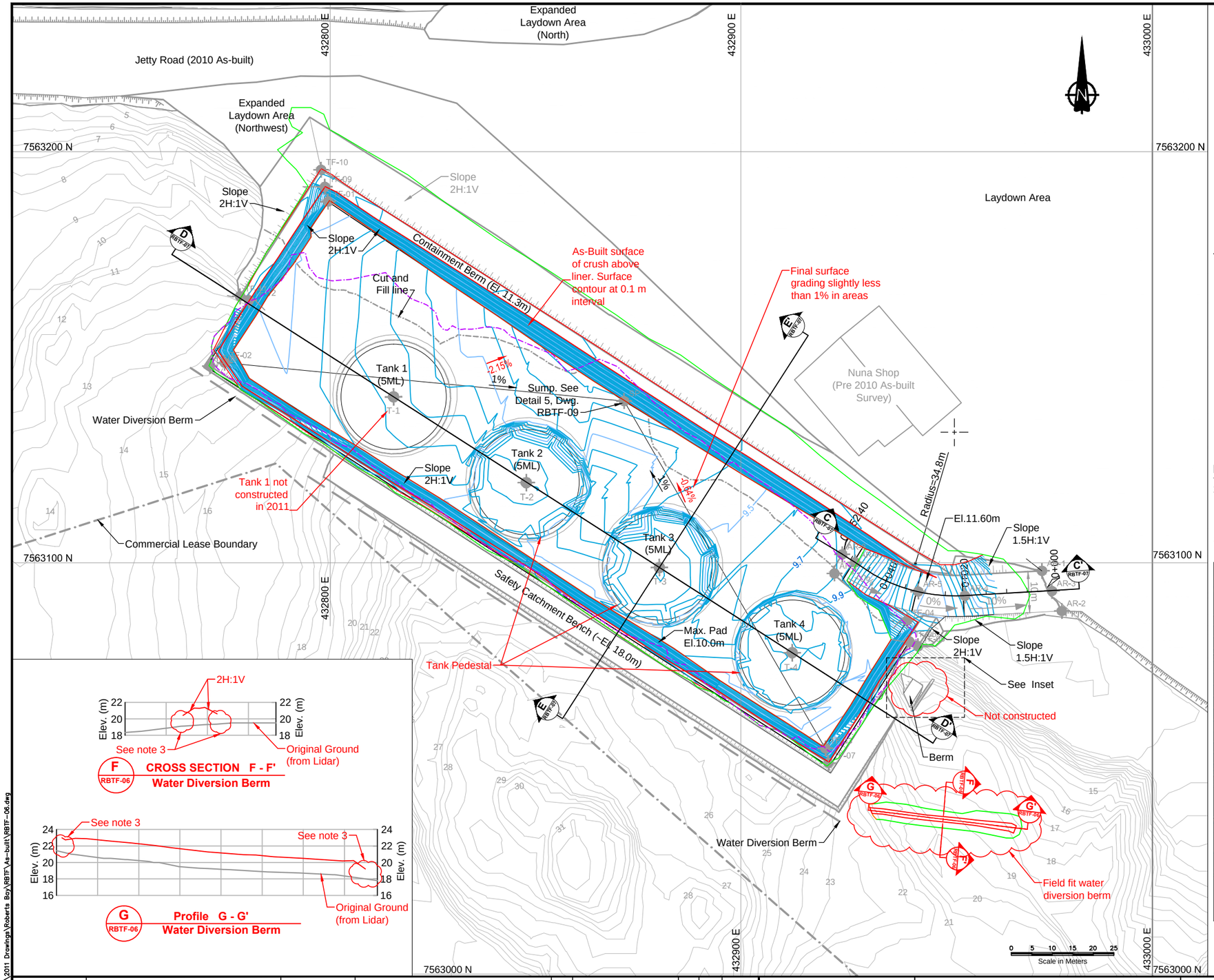


ACCESS RAMP STAKE OUT POINTS			
ID	Northing	Easting	Elev. (m)
AR-1	7563098.04	432972.72	9.69
AR-2	7563088.29	432977.56	9.26
AR-3	7563093.16	432975.14	9.48
AR-4	7563092.00	432953.96	11.60
AR-5	7563093.03	432942.62	11.60
AR-6	7563100.11	432927.30	10.14
AR-7	7563097.42	432922.23	9.75
AR-8	7563102.06	432924.54	9.75

SUMP PUMP STAKE OUT POINT			
ID	Northing	Easting	Elev. (m)
SP	7563139.33	432871.47	9.02

FUEL TANK FARM STAKE OUT POINTS			
ID	Northing	Easting	Elev. (m)
TF-01	7563187.84	432799.46	10.00
TF-02	7563148.65	432774.32	10.00
TF-03	7563054.91	432920.44	10.00
TF-04	7563086.02	432940.39	10.00
TF-05	7563079.72	432943.00	11.30
TF-06	7563080.86	432940.91	11.30
TF-07	7563051.32	432921.22	11.30
TF-08	7563147.86	432770.72	11.30
TF-09	7563191.44	432798.68	11.30
TF-10	7563195.58	432797.77	11.30
TF-11	7563164.82	432778.04	11.30
TF-12	7563163.81	432780.22	11.30
TF-13	7563071.76	432941.76	15.10
TF-14	7563069.88	432944.11	15.15
TF-15	7563068.25	432939.48	15.75
TF-16	7563064.93	432940.91	16.07
TF-17	7563064.19	432941.41	15.21
TF-18	7563063.91	432941.82	15.21
TF-19	7563071.56	432946.96	14.28
TF-20	7563071.76	432946.49	14.29

TANK (Center) STAKE OUT POINTS			
ID	Northing	Easting	Elev. (m)
T-1	7563140.35	432815.41	10.32
T-2	7563119.61	432847.74	10.32
T-3	7563098.87	432880.07	10.32
T-4	7563078.13	432912.40	10.32

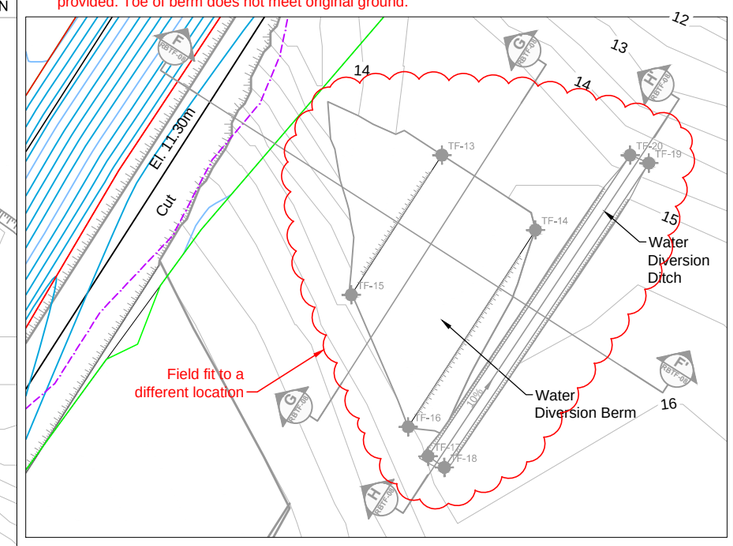
As-built info for tanks not available

LEGEND

- Overliner Crush Major Contour (2011 As-built)
- Overliner Crush Minor Contour (2011 As-built)
- Overliner Crush Outline/ Extents (2011 As-built)
- Extent of Excavation (2011 As-built)
- Crest (2011 As-built)
- Toe (2011 As-built)

NOTES

1. Stake out points shown are for final Fuel Tank Farm surface (i.e. after liner cover and access ramp are constructed).
2. Tank Spacing by others.
3. Original ground survey of water diversion berm not provided. Toe of berm does not meet original ground.



Inset - Diversion Berm and Ditch

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
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A	Issued for Review	JBK	EMR	11Mar11

REVISIONS

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PROFESSIONAL ENGINEER'S STAMP

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DESIGN: AT/JBK/MMM | DRAWN: DC/LR | REVIEWED: LW
CHECKED: JBK/MMM | APPROVED: EMR | DATE: May 18, 2012
FILE NAME: RBTF–06.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LTD.

SRK JOB NO.: 1CH008.033 | SRK DWG NO.: RBTF-06

Doris North Project

DRAWING TITLE: Fuel Tank Farm Final Layout Plan (with Stake Out Points)

NEWMONT DRAWING NO. HB+R-CIV-CIV-OND-0045 | SHEET 7 OF 13 | REVISION NO. AB1

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Engineering Drawings for the Doris North Land Farm, Doris North Project, Nunavut, Canada

ACTIVE DRAWING STATUS

SRK DWG #	NEWMONT DWG NUMBER	DRAWING TITLE	REV	DATE	STATUS	OLD/REPLACED REVISIONS					
LF-00	HB+D-CIV-CIV-OND-0031	Engineering Drawings for Doris North Land Farm	AB	April 20, 2012	2011 As-built	Rev. 8, Jul. 11, 2011	Rev. 7, Jun. 28, 2011	Rev. 6, Mar. 31, 2011	Rev. 5, Mar. 22, 2010	Rev. 4, Aug. 9, 2010	Rev. 3, Apr. 27, 2010
LF-01	HB+D-CIV-CIV-OND-0032	Land Farm Location Map	5	Jun. 28, 2011	Gen. Revs to New O.G.	Rev. 4, Aug. 9, 2010	Rev. 3, Apr. 27, 2010	Rev. 2, Feb. 8, 2010	Rev. 1, Feb. 1, 2010	Rev. 0, Dec. 17, 2009	
LF-02	HB+D-CIV-CIV-OND-0033	Land Farm General Arrangement	AB	April 20, 2012	2011 As-built	Rev. 5, Jun. 28, 2011	Rev. 4, Aug. 9, 2010	Rev. 3, Apr. 27, 2010	Rev. 2, Feb. 8, 2010	Rev. 1, Feb. 1, 2010	Rev. 0, Dec. 17, 2009
LF-03	HB+D-CIV-CIV-OND-0034	Foundation Base Plan View	AB	April 20, 2012	2011 As-built	Rev. 6, Jun. 28, 2011	Rev. 5, Mar. 22, 2011	Rev. 4, Aug. 9, 2010	Rev. 3, Apr. 27, 2010	Rev. 2, Feb. 8, 2010	Rev. 1, Feb. 1, 2010
LF-04	HB+D-CIV-CIV-OND-0035	Containment Berm Plan View	AB	April 20, 2012	2011 As-built	Rev. 5, Jun. 28, 2011	Rev. 5, Jun. 28, 2011	Rev. 4, Aug. 9, 2010	Rev. 3, Apr. 27, 2010	Rev. 2, Feb. 8, 2010	Rev. 1, Feb. 1, 2010
LF-05	HB+D-CIV-CIV-OND-0036	Containment Berm Sections and Details	AB	April 20, 2012	2011 As-built	Rev. 6, Jul. 11, 2011	Rev. 5, Jun. 28, 2011	Rev. 4, Aug. 9, 2010	Rev. 3, Apr. 27, 2010	Rev. 2, Feb. 8, 2010	Rev. 1, Feb. 1, 2010
LF-06	HB+D-CIV-CIV-OND-0037	Completed Land Farm Plan View	AB	April 20, 2012	2011 As-built	Rev. 5, Jun. 28, 2011	Rev. 4, Aug. 9, 2010	Rev. 3, Apr. 27, 2010	Rev. 2, Feb. 8, 2010	Rev. 1, Feb. 1, 2010	Rev. 0, Dec. 17, 2009
LF-07	HB+D-CIV-CIV-OND-0038	Final Sections and Details	AB	April 20, 2012	2011 As-built	Rev. 5, Jun. 28, 2011	Rev. 4, Aug. 9, 2010	Rev. 3, Apr. 27, 2010	Rev. 2, Feb. 8, 2010	Rev. 1, Feb. 1, 2010	Rev. 0, Dec. 17, 2009
LF-08	HB+D-CIV-CIV-OND-0131	Land Farm Liner Plan View	AB	April 20, 2012	2011 As-built	Rev. 1, Jul. 11, 2011	Rev. 0, Jun. 28, 2011				

HOPE BAY MINING LTD.

srk consulting

PROJECT NO: 1CH008.033/.058
2011 As-Built
Revision AB
Apr. 20, 2012
LF-00 / HB+D-CIV-CIV-OND-0031

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NOTES

1. The Contractor is not responsible to obtain all necessary permits and approvals for the Works; however, the Contractor must confirm that such approvals have been obtained from the Owner prior to proceeding with any construction.
2. Topographic contour data for the terrain model was provided by the Contractor.
3. The co-ordinate system is UTM NAD 83, Zone 13.
4. All dimensions are in metric units, unless specifically mentioned.
5. Typical details are Not to Scale (NTS) unless specifically mentioned.
6. All drawings are scaled appropriately for D-Size construction drawings. Scales may not be correct if these drawings are reproduced and presented in any other size format.
7. Notes and specifications on any drawings in this set apply equally to all drawings in the set.
8. All work is to be set out prior to the start of any construction, according to the Stake-Out Tables or 3D surface files provided. Should there be any difference between the co-ordinates provided and the field location, the Engineer is to be informed immediately.
9. Subsurface soil conditions have not been confirmed at this location. SRK has been verbally informed of the conditions by the Owner. It is understood that foundation conditions consist of about 1m of random overburden fill which has been leveled using a dozer, overlying ice-rich marine silt and clay permafrost, possibly up to 20m thick. The random fill was originally placed as frozen lumps of soil mixed with snow and ice with random quantities of quarry rock. This fill was allowed to thaw in and was subsequently leveled. The fill was not compacted, and no quality control was carried out. SRK has informed the Owner of the risks associated with founding the land farm on this leveling pad without undertaking further geotechnical investigation.
10. The scope of work described in these drawings specifically exclude all electrical and mechanical elements.

LEGEND

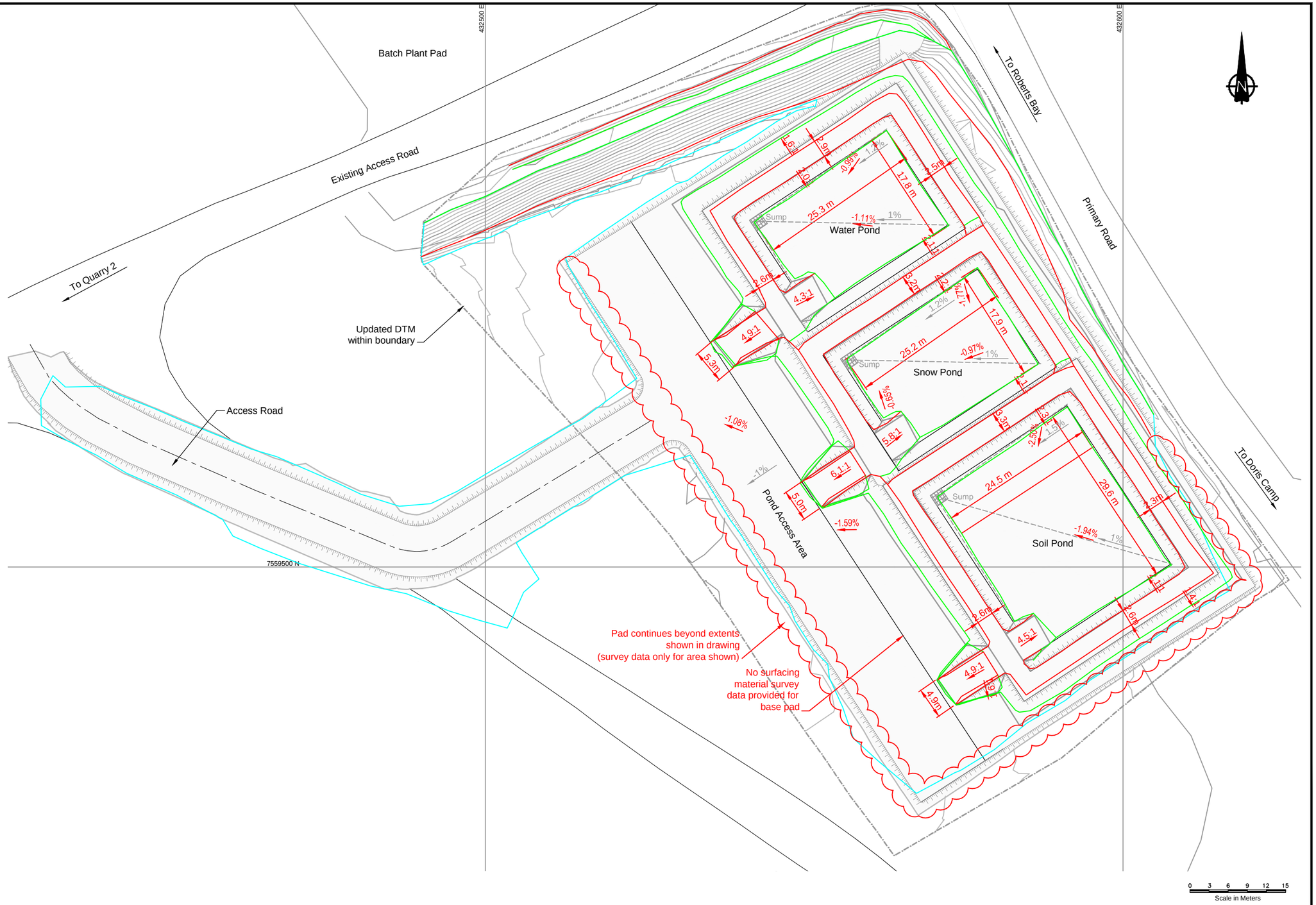
- As-built Crest
- As-built Toe
- As-built Extent of ROQ

As-built Containment

- Soil Pond As-built volume = 325 m^3 at El. 56.75 m
- Snow Pond As-built volume = 195 m^3 at El. 56.45 m
- Water Pond As-built volume = 186 m^3 at El. 55.93 m

Note

* As built capacities calculated from within crush surface final down from the low point of the liner crest (i.e. liner freeboard/containment elevation).



DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
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REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
AB	As-built	JBK	EMR	04/20/12
5	GENERAL REVISIONS TO NEW O.G.	JBK	EMR	06/28/11
4	ISSUED FOR CONSTRUCTION	IM	EMR	08/09/10
3	ISSUED FOR CONSTRUCTION	IM	EMR	04/27/10
2	ISSUED FOR COMMENT	LW	EMR	02/08/10
1	WATER LICENSE REVIEW	PM	EMR	02/01/10
0	ISSUED FOR REVIEW	TG	EMR	12/17/09

REVISIONS

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PROFESSIONAL ENGINEERS STAMP

srk consulting

DESIGN: CB/JBK | DRAWN: NV/LR | REVIEWED: EMR
CHECKED: MMM | APPROVED: EMR | DATE: APR. 20, 2012
FILE NAME: 1CH008.033–Land Farm_GA.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LTD.

SRK JOB NO.: 1CH008.033/.058 | SRK DWG NO.: LF-02

Doris North Project

DRAWING TITLE:
Land Farm
General Arrangement

NEWMONT DRAWING NO.: HB+D-CIV-CIV-OND-0033 | SHEET: 3 OF 9 | REVISION NO.: AB

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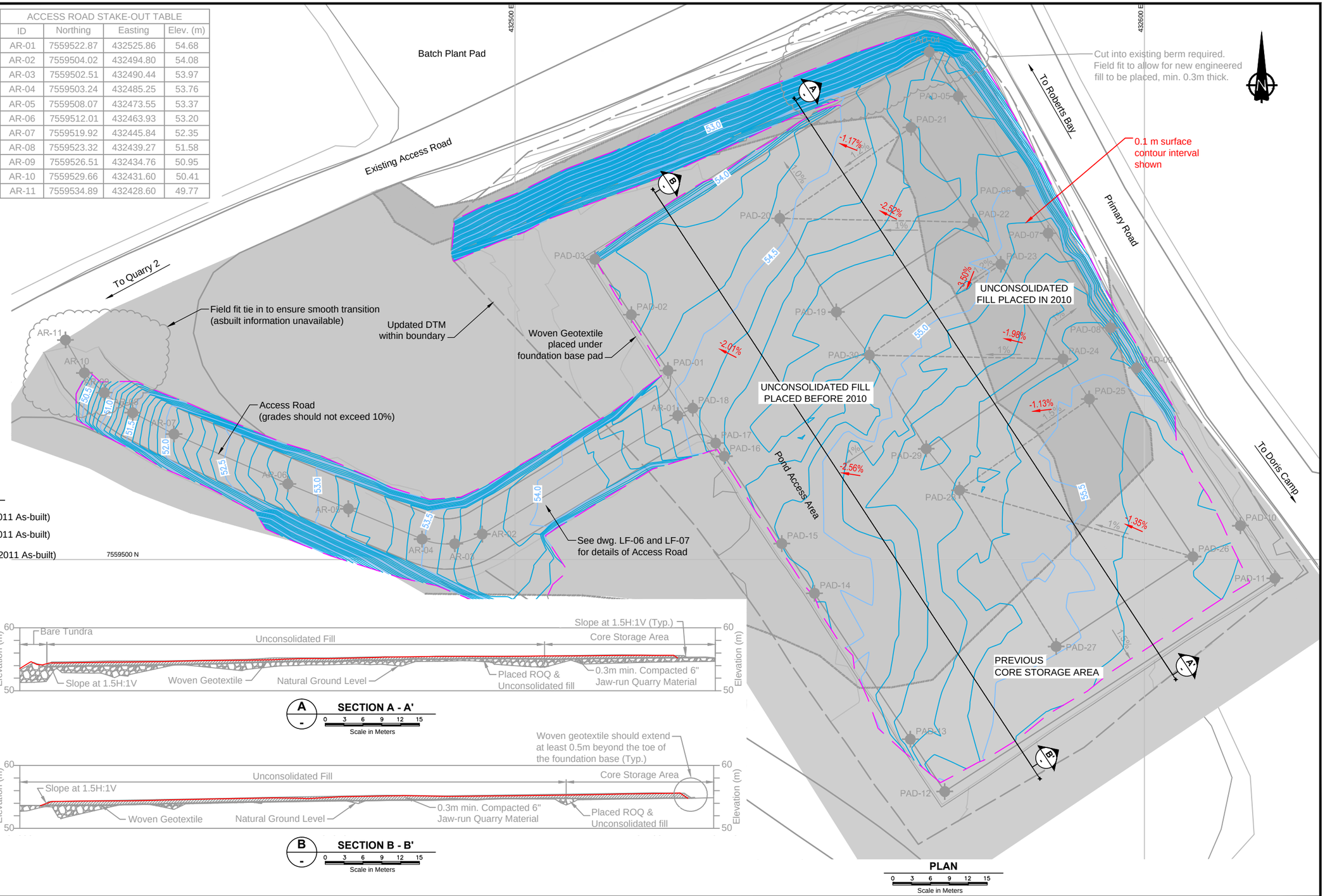
FOUNDATION BASE STAKE-OUT TABLE			
ID	Northing	Easting	Elev.(m)
PAD-01	7559530.03	432524.32	54.55
PAD-02	7559538.89	432518.50	54.31
PAD-03	7559547.70	432512.71	54.12
PAD-04	7559580.65	432565.83	54.81
PAD-05	7559573.59	432570.45	54.81
PAD-06	7559558.55	432580.33	54.81
PAD-07	7559551.85	432584.73	55.31
PAD-08	7559536.81	432594.61	55.31
PAD-09	7559530.45	432598.78	55.61
PAD-10	7559505.38	432615.25	55.61
PAD-11	7559497.02	432620.74	55.61
PAD-12	7559463.13	432568.29	55.57
PAD-13	7559471.44	432562.83	55.43
PAD-14	7559494.63	432547.59	55.02
PAD-15	7559502.52	432542.40	55.11
PAD-16	7559516.40	432533.28	54.82
PAD-17	7559518.50	432531.89	54.77
PAD-18	7559524.03	432528.26	54.63
PAD-19	7559539.33	432551.08	54.90
PAD-20	7559554.20	432542.08	54.58
PAD-21	7559568.65	432562.93	54.90
PAD-22	7559553.61	432572.81	54.90
PAD-23	7559546.91	432577.21	55.40
PAD-24	7559531.87	432587.09	55.40
PAD-25	7559525.51	432591.26	55.70
PAD-26	7559500.44	432607.73	55.70
PAD-27	7559486.16	432585.99	55.70
PAD-28	7559511.01	432570.63	55.30
PAD-29	7559517.59	432565.35	55.40
PAD-30	7559532.46	432556.33	55.09

ACCESS ROAD STAKE-OUT TABLE			
ID	Northing	Easting	Elev. (m)
AR-01	7559522.87	432525.86	54.68
AR-02	7559504.02	432494.80	54.08
AR-03	7559502.51	432490.44	53.97
AR-04	7559503.24	432485.25	53.76
AR-05	7559508.07	432473.55	53.37
AR-06	7559512.01	432463.93	53.20
AR-07	7559519.92	432445.84	52.35
AR-08	7559523.32	432439.27	51.58
AR-09	7559526.51	432434.76	50.95
AR-10	7559529.66	432431.60	50.41
AR-11	7559534.89	432428.60	49.77



LEGEND

- ROQ Foundation Pad Major Contour (2011 As-built)
- ROQ Foundation Pad Minor Contour (2011 As-built)
- ROQ Foundation Pad Outline/ Extents (2011 As-built)

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
–	–		

REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
AB	AS-BUILT	JBK	EMR	04/20/12
6	GENERAL REVISIONS TO NEW O.G.	JBK	EMR	06/28/11
5	UPDATED STAKE OUT TABLE	IM	EMR	03/22/11
4	ISSUED FOR CONSTRUCTION	IM	EMR	08/09/10
3	ISSUED FOR CONSTRUCTION	IM	EMR	04/27/10
2	ISSUED FOR COMMENT	LW	EMR	02/08/10
1	WATER LICENSE REVIEW	PM	EMR	02/01/10
0	ISSUED FOR REVIEW	TG	EMR	12/17/09

REVISIONS

Original Drawings Stamped and Signed by Engineer

This drawing is uncontrolled when printed unless stamped and signed with original ink and recorded on a Distribution Register.

PROFESSIONAL ENGINEERS STAMP

srk consulting

DESIGN: CB/JBK	DRAWN: NV/LR	REVIEWED: EMR
CHECKED: JBK	APPROVED: EMR	DATE: APR. 20, 2012

FILE NAME: 1CH008.033–Land Farm_Base Pad.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LTD.

SRK JOB NO.: 1CH008.033/.058 SRK DWG NO.: LF-03

Doris North Project

DRAWING TITLE: Foundation Base Plan View

NEWMONT DRAWING NO.	SHEET	REVISION NO.
HB+D-CIV-CIV-OND-0034	4 OF 9	AB

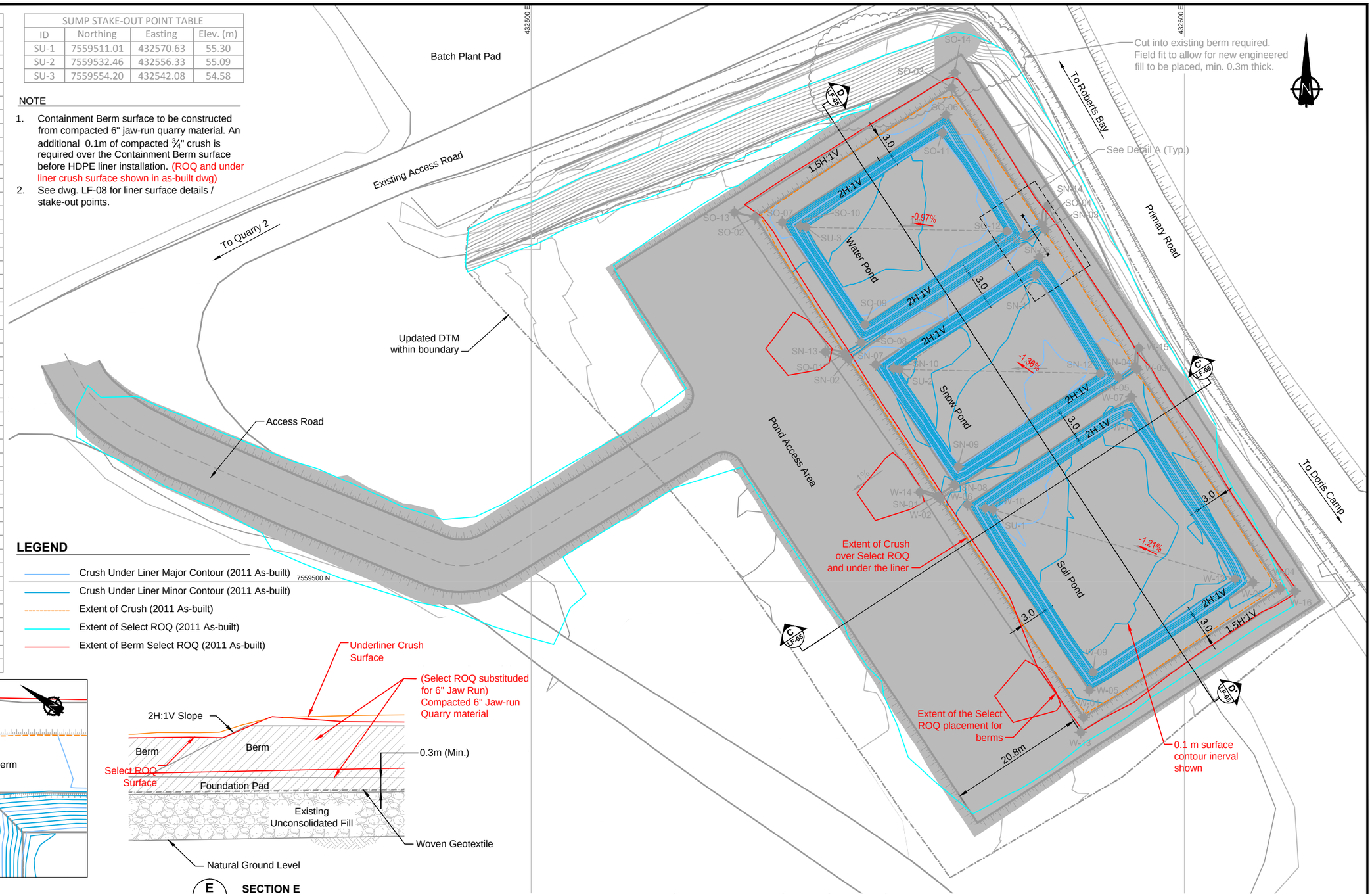
J:\01_SITES\Hope_Bay\1ACAD\2011 Drawings\Land Farm\As-builts\1CH008.033-Land Farm_Base Pad.dwg

WATER POND STAKE-OUT TABLE			
ID	Northing	Easting	Elev. (m)
W-01	7559479.24	432584.56	56.70
W-02	7559512.67	432562.60	56.70
W-03	7559532.44	432592.69	56.70
W-04	7559499.00	432614.65	56.70
W-05	7559483.39	432585.42	56.70
W-06	7559511.81	432566.76	56.70
W-07	7559528.28	432591.83	56.70
W-08	7559499.86	432610.50	56.70
W-09	7559486.16	432585.99	55.70
W-10	7559511.24	432569.53	55.70
W-11	7559525.51	432591.26	55.70
W-12	7559500.44	432607.73	55.70
W-13	7559476.99	432584.09	55.62
W-14	7559513.69	432559.47	55.32
W-15	7559535.70	432593.01	55.33
W-16	7559498.54	432616.86	55.63
SNOW POND STAKE-OUT TABLE			
SN-01	7559513.18	432562.27	56.40
SN-02	7559534.07	432548.55	56.40
SN-03	7559553.83	432578.64	56.40
SN-04	7559532.94	432592.36	56.40
SN-05	7559531.29	432589.86	56.40
SN-06	7559549.68	432577.78	56.40
SN-07	7559533.21	432552.70	56.40
SN-08	7559514.82	432564.78	56.40
SN-09	7559517.59	432565.35	55.40
SN-10	7559532.64	432555.47	55.40
SN-11	7559546.91	432577.21	55.40
SN-12	7559531.86	432587.09	55.40
SN-13	7559535.17	432545.01	54.83
SN-14	7559557.50	432579.04	54.84
SOIL POND STAKE-OUT TABLE			
SO-01	7559534.91	432548.00	55.90
SO-02	7559555.81	432534.27	55.90
SO-03	7559575.58	432564.36	55.90
SO-04	7559554.67	432578.09	55.90
SO-05	7559553.03	432575.58	55.90
SO-06	7559571.42	432563.50	55.90
SO-07	7559554.95	432538.43	55.90
SO-08	7559536.56	432550.50	55.90
SO-09	7559539.33	432551.08	54.90
SO-10	7559554.38	432541.20	54.90
SO-11	7559568.65	432562.93	54.90
SO-12	7559553.61	432572.81	54.90
SO-13	7559556.47	432531.10	54.38
SO-14	7559577.81	432564.83	54.82

SUMP STAKE-OUT POINT TABLE			
ID	Northing	Easting	Elev. (m)
SU-1	7559511.01	432570.63	55.30
SU-2	7559532.46	432556.33	55.09
SU-3	7559554.20	432542.08	54.58

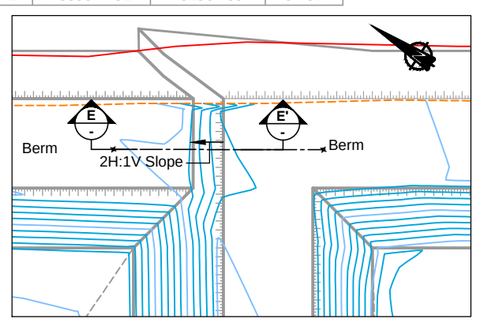
NOTE

1. Containment Berm surface to be constructed from compacted 6" jaw-run quarry material. An additional 0.1m of compacted ¾" crush is required over the Containment Berm surface before HDPE liner installation. (ROQ and under liner crush surface shown in as-built dwg)
2. See dwg. LF-08 for liner surface details / stake-out points.



LEGEND

- Crush Under Liner Major Contour (2011 As-built)
- Crush Under Liner Minor Contour (2011 As-built)
- Extent of Crush (2011 As-built)
- Extent of Select ROQ (2011 As-built)
- Extent of Berm Select ROQ (2011 As-built)



DETAIL A (TYPICAL)

0 0.4 0.8 1.2 1.6 2.0

Scale in Metres

SECTION E

0 0.4 0.8 1.2 1.6 2.0

~ Scale in Metres

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
–	–		

REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
AB	AS-BUILT	JBK	EMR	04/20/12
5	GENERAL REVISIONS TO NEW O.G.	JBK	EMR	06/28/11
4	ISSUED FOR CONSTRUCTION	IM	EMR	08/09/10
3	ISSUED FOR CONSTRUCTION	IM	EMR	04/27/10
2	ISSUED FOR COMMENT	LW	EMR	02/08/10
1	WATER LICENSE REVIEW	PM	EMR	02/01/10
0	ISSUED FOR REVIEW	TG	EMR	12/17/09

REVISIONS

Original Drawings Stamped and Signed by Engineer

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PROFESSIONAL ENGINEERS STAMP

srk consulting

DESIGN: CB/JBK | DRAWN: NV/LR | REVIEWED: EMR

CHECKED: JBK | APPROVED: EMR | DATE: APR. 20, 2012

FILE NAME: 1CH008.033–Land Farm_Containment Berm.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LTD.

SRK JOB NO.: 1CH008.033/.058 | SRK DWG NO.: LF-04

Doris North Project

DRAWING TITLE: Containment Berm Plan View

NEWMONT DRAWING NO.: HB+D-CIV-CIV-OND-0035 | SHEET: 5 OF 9 | REVISION NO.: AB

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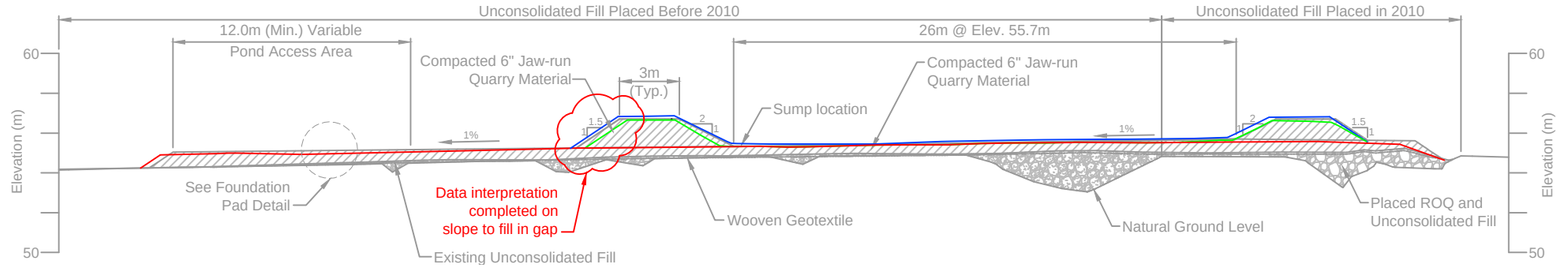

C LF-04 **SECTION C - C'**

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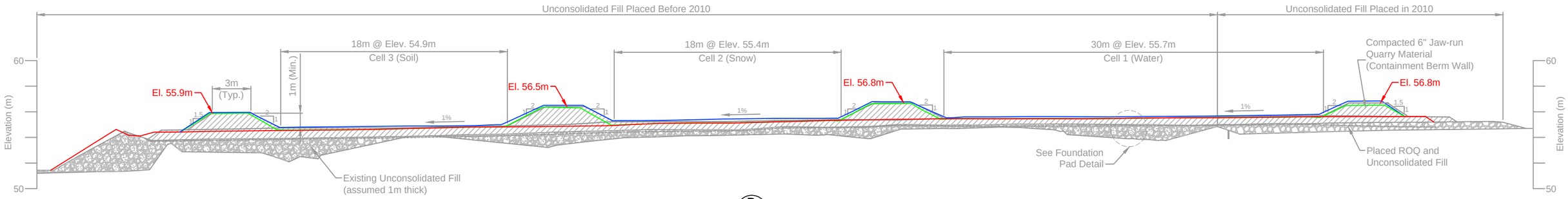
Scale in Meters



D LF-04 **SECTION D - D'**

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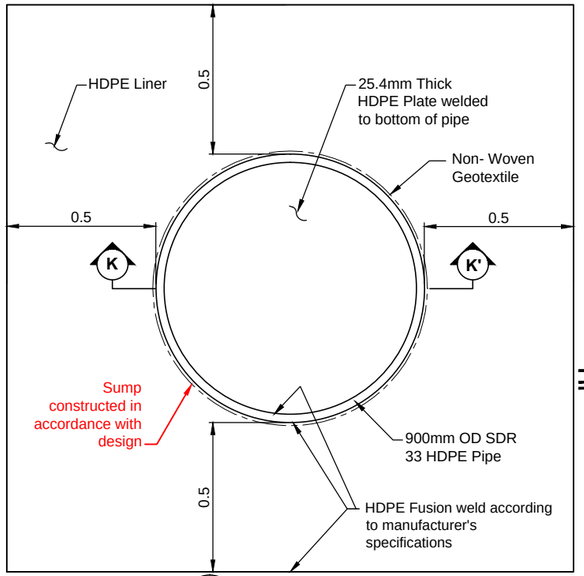
Scale in Meters



C LF-08 **DETAIL C - SUMP PLAN**

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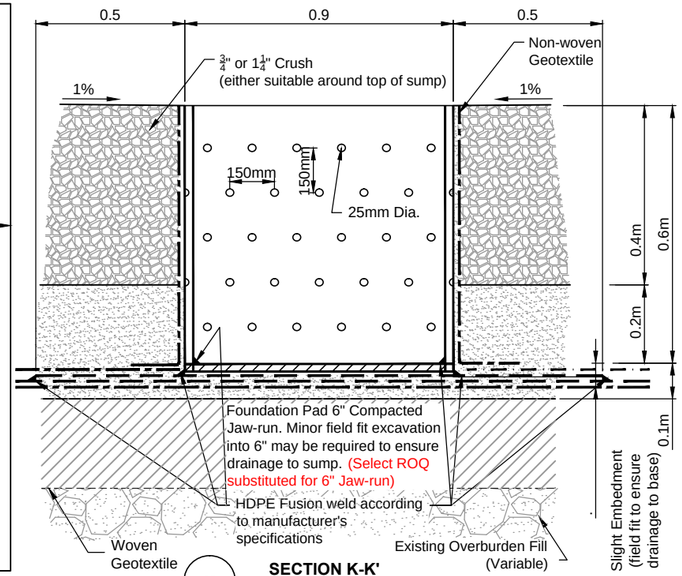
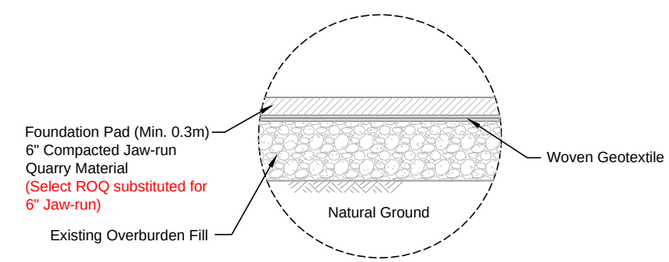
Scale in Metres



K **SECTION K-K'**
NTS



TYPICAL FOUNDATION BASE PAD DETAIL
(NTS)

LEGEND

- Compacted 6" Jaw-run Quarry material
- Existing Unconsolidated Fill
- ROQ (Run of Quarry) Fill
- As-built Crush Under Liner
- As-built Berm ROQ
- As-built Foundation Pad ROQ

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
–	–		

REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
AB	AS-BUILT	JBK	LW	04/20/12
6	SUMP DETAILS ADDED	JBK	LW	07/11/11
5	GENERAL REVISIONS TO NEW O.G.	JBK	EMR	06/28/11
4	ISSUED FOR CONSTRUCTION	IM	EMR	08/09/10
3	ISSUED FOR CONSTRUCTION	IM	EMR	04/27/10
2	ISSUED FOR COMMENT	LW	EMR	02/08/10
1	WATER LICENSE REVIEW	PM	EMR	02/01/10
0	ISSUED FOR REVIEW	TG	EMR	12/17/09

REVISIONS

Original Drawings
Stamped and
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PROFESSIONAL ENGINEERS STAMP

srk consulting

DESIGN: CB/JBK	DRAWN: NV/LR	REVIEWED: EMR
CHECKED: JBK	APPROVED: EMR	DATE: APR. 20, 2012

FILE NAME: 1CH008.033–Sections_Details.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LTD.

SRK JOB NO.: 1CH008.033/.058 SRK DWG NO.: LF-05

Doris North Project

DRAWING TITLE:
Containment Berm
Sections and Details

NEWMONT DRAWING NO.	SHEET	REVISION NO.
HB+D-CIV-CIV-OND-0036	6 OF 9	AB

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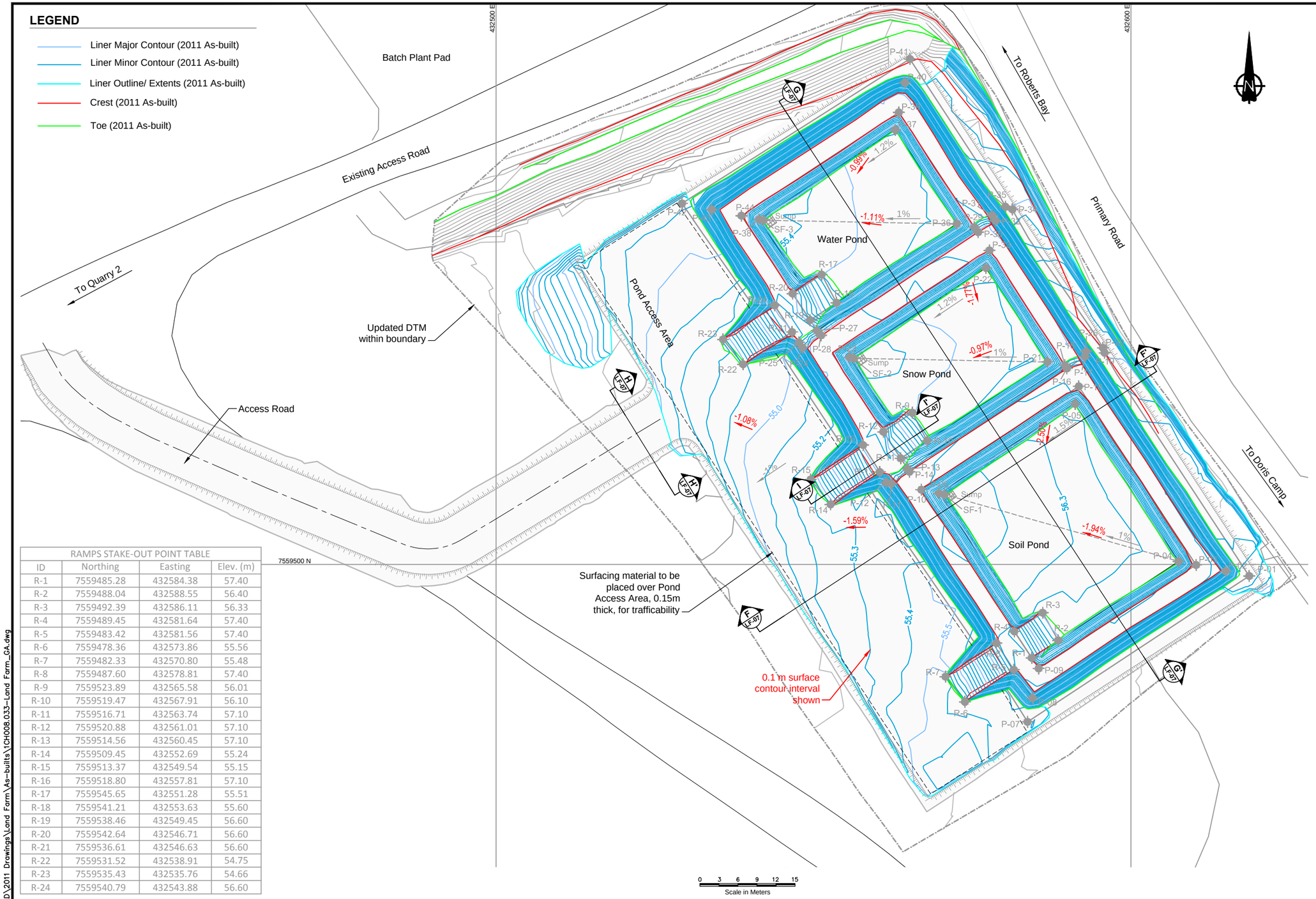

RAMPS STAKE-OUT POINT TABLE			
ID	Northing	Easting	Elev. (m)
R-1	7559485.28	432584.38	57.40
R-2	7559488.04	432588.55	56.40
R-3	7559492.39	432586.11	56.33
R-4	7559489.45	432581.64	57.40
R-5	7559483.42	432581.56	57.40
R-6	7559478.36	432573.86	55.56
R-7	7559482.33	432570.80	55.48
R-8	7559487.60	432578.81	57.40
R-9	7559523.89	432565.58	56.01
R-10	7559519.47	432567.91	56.10
R-11	7559516.71	432563.74	57.10
R-12	7559520.88	432561.01	57.10
R-13	7559514.56	432560.45	57.10
R-14	7559509.45	432552.69	55.24
R-15	7559513.37	432549.54	55.15
R-16	7559518.80	432557.81	57.10
R-17	7559545.65	432551.28	55.51
R-18	7559541.21	432553.63	55.60
R-19	7559538.46	432549.45	56.60
R-20	7559542.64	432546.71	56.60
R-21	7559536.61	432546.63	56.60
R-22	7559531.52	432538.91	54.75
R-23	7559535.43	432535.76	54.66
R-24	7559540.79	432543.88	56.60

LAND FARM STAKE-OUT POINT TABLE			
ID	Northing	Easting	Elev. (m)
P-01	7559498.18	432618.64	55.62
P-02	7559498.94	432614.94	57.40
P-03	7559499.91	432610.27	57.40
P-04	7559500.48	432607.50	56.40
P-05	7559525.28	432591.21	56.40
P-06	7559511.19	432569.75	56.40
P-07	7559475.21	432583.72	55.60
P-08	7559478.95	432584.50	57.40
P-09	7559483.62	432585.47	57.40
P-10	7559511.77	432566.99	57.40
P-11	7559512.74	432562.31	57.40
P-12	7559512.91	432561.48	57.10
P-13	7559515.09	432564.80	57.10
P-14	7559514.58	432565.12	57.40
P-15	7559531.38	432589.60	57.10
P-16	7559530.87	432589.91	57.40
P-17	7559532.73	432592.75	57.40
P-18	7559528.05	432591.79	57.40
P-19	7559533.32	432595.85	55.46
P-20	7559534.10	432595.60	55.43
P-21	7559531.91	432586.86	56.10
P-22	7559546.68	432577.16	56.10
P-23	7559532.59	432555.70	56.10
P-24	7559534.13	432548.26	57.10
P-25	7559534.97	432547.71	56.60
P-26	7559533.56	432592.93	57.10
P-27	7559536.82	432550.53	56.60
P-28	7559536.07	432551.20	57.10
P-29	7559553.11	432575.33	56.60
P-30	7559552.32	432575.94	57.10
P-31	7559554.96	432578.15	56.60
P-32	7559554.13	432578.70	57.10
P-33	7559549.45	432577.73	57.10
P-34	7559555.90	432581.33	54.99
P-35	7559556.33	432580.24	54.94
P-36	7559553.65	432572.58	55.60
P-37	7559568.42	432562.88	55.60
P-38	7559554.33	432541.42	55.60
P-39	7559571.19	432563.45	56.60
P-40	7559575.87	432564.42	56.60
P-41	7559579.59	432565.19	54.81
P-42	7559556.85	432529.29	54.34
P-43	7559555.88	432533.98	56.60
P-44	7559554.91	432538.65	56.60

SUMP FINAL STAKE-OUT TABLE			
ID	Northing	Easting	Elev. (m)
SF-01	7559511.01	432570.63	56.00
SF-02	7559532.46	432556.33	55.78
SF-03	7559554.20	432542.08	55.28

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
–	–		

REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
AB	As-built	JBK	EMR	04/20/12
5	GENERAL REVISIONS TO NEW O.G.	JBK	EMR	06/28/11
4	ISSUED FOR CONSTRUCTION	IM	EMR	08/09/10
3	ISSUED FOR CONSTRUCTION	IM	EMR	04/27/10
2	ISSUED FOR COMMENT	LW	EMR	02/08/10
1	WATER LICENSE REVIEW	PM	EMR	02/01/10
0	ISSUED FOR REVIEW	TG	EMR	12/17/09

REVISIONS

Original Drawings Stamped and Signed by Engineer

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PROFESSIONAL ENGINEERS STAMP

srk consulting

DESIGN: CB/JBK | DRAWN: NV/LR | REVIEWED: EMR
CHECKED: JBK | APPROVED: EMR | DATE: APR. 20, 2012
FILE NAME: 1CH008.033–Land Farm_GA.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LTD.

SRK JOB NO.: 1CH008.033/.058 | SRK DWG NO.: LF-06

Doris North Project

DRAWING TITLE: Land Farm Stakeout Points

NEWMONT DRAWING NO.: HB+D-CIV-CIV-OND-0033 | SHEET: 3 OF 9 | REVISION NO.: 5

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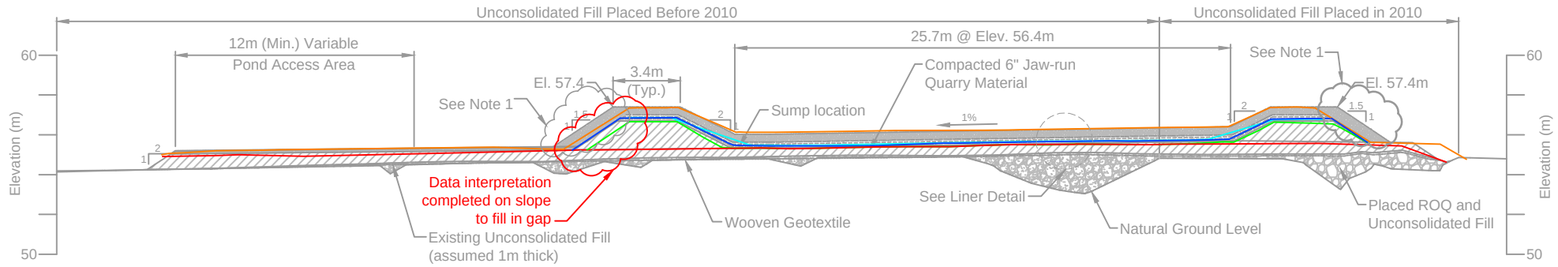
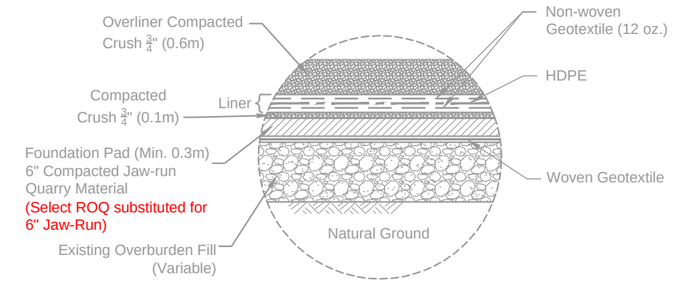
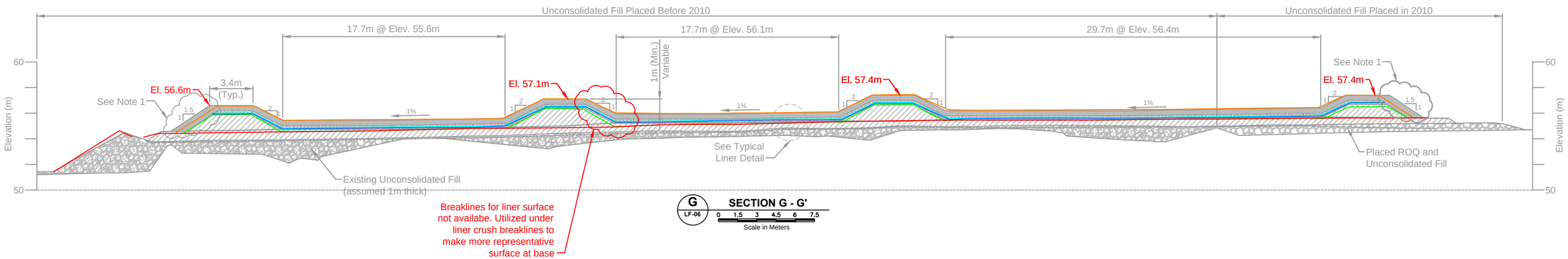


F LF-06 **SECTION F - F'**

0 1.5 3 4.5 6 7.5
Scale in Meters



TYPICAL LINER DETAIL
(NTS)



G LF-06 **SECTION G - G'**

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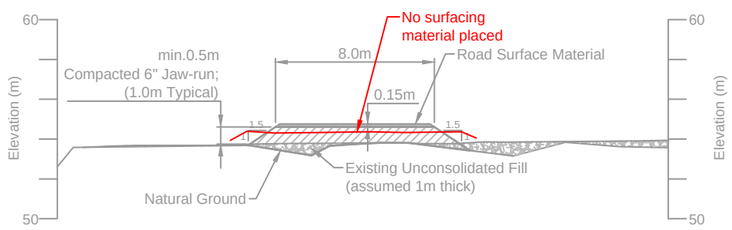
Scale in Meters



H LF-06 **SECTION H - H'**

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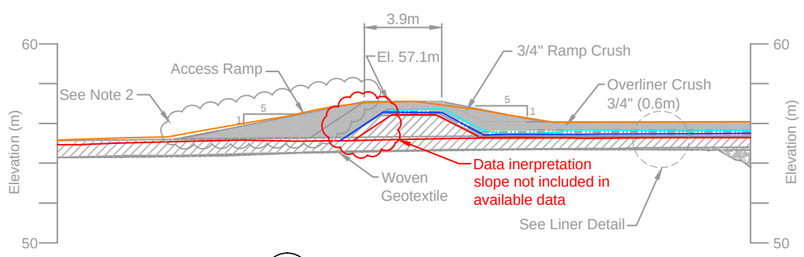
Scale in Meters



I LF-06 **SECTION I - I'**

0 1.5 3 4.5 6 7.5
Scale in Meters

LEGEND

- Overliner Compacted Crush 3/4" (0.6m)
- Compacted 6" Jaw-run Quarry Material (Select ROQ substituted for 6" Jaw-run)
- Existing Unconsolidated Fill
- ROQ (Run of Quarry) and Unconsolidated Fill
- As-built Crush Above Liner
- As-built Liner
- As-built Crush Under Liner
- As-built Berm ROQ
- As-built Foundation Pad ROQ

NOTES

1. On the outside 1.5H:1V berm slopes, i.e. where no liner has been placed, compacted 1-1/4" or 6" Jaw-run material may be substituted for 3/4" overliner material.
2. For the Access Ramp slope outside of the lined containment (i.e. south of the areas where liner has been placed), 1-1/4" crush or compacted 6" Jaw-run material, overlaid by 0.15m of surfacing material, may be substituted for the outlined 3/4" ramp crush. (Select ROQ substituted as per NL-RFI-033.)

Description	Material Specifications	Quantity
Foundation Pad: Base (min. 0.3m)	Compacted 6" Jaw-run quarry material	4093 m^3
Woven Geotextile	LP315 or equilavent 6 oz woven geotextile	6608 m^2
Foundation Pad: Berms	Compacted 6" Jaw-run quarry material	1793 m^3
Non-woven Geotextile	12 oz non-woven geotextile	6798 m^2
HDPE Geomembrane Liner	Solmax 460T or equilavent 60 mil textured HDPE	3399 m^2
Underliner (0.1m)	3/4" crushed rock	340 m^3
Overliner (0.6m)	3/4" crushed rock	2591 m^3
Access Ramps	3/4" crushed rock	142 m^3
Access Road Base (min 0.5, typically 1.0m)	Compacted 6" Jaw-run quarry material	975 m^3
Access Road Surfacing (0.15m)	1 1/4" crushed rock	89 m^3
Pond Access Area Surfacing (0.15m)	1 1/4" crushed rock	290 m^3

These quantities are neat line quantities and the Contractor needs to apply the appropriate bulking and/or shrinkage factors as well as make the necessary allowances for liner and geotextile overlap.

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
–	–		

REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
AB	AS-BUILT	MMM		03/28/12
5	GENERAL REVISIONS TO NEW O.G.	JBK	EMR	06/28/11
4	ISSUED FOR CONSTRUCTION	IM	EMR	08/09/10
3	ISSUED FOR CONSTRUCTION	IM	EMR	04/27/10
2	ISSUED FOR COMMENT	LW	EMR	02/08/10
1	WATER LICENSE REVIEW	PM	EMR	02/01/10
0	ISSUED FOR REVIEW	TG	EMR	12/17/09

REVISIONS

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PROFESSIONAL ENGINEERS STAMP

srk consulting

DESIGN: CB/JBK | DRAWN: NV/LR | REVIEWED: EMR
CHECKED: JBK | APPROVED: EMR | DATE: MAR. 28, 2012
FILE NAME: 1CH008.033–Land Farm_LF–07.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LTD.

SRK JOB NO.: 1CH008.033/.058 | SRK DWG NO.: LF-07

Doris North Project

DRAWING TITLE:

Final Sections and Details

NEWMONT DRAWING NO.: HB+D-CIV-CIV-OND-0038 | SHEET: 8 OF 9 | REVISION NO.: AB

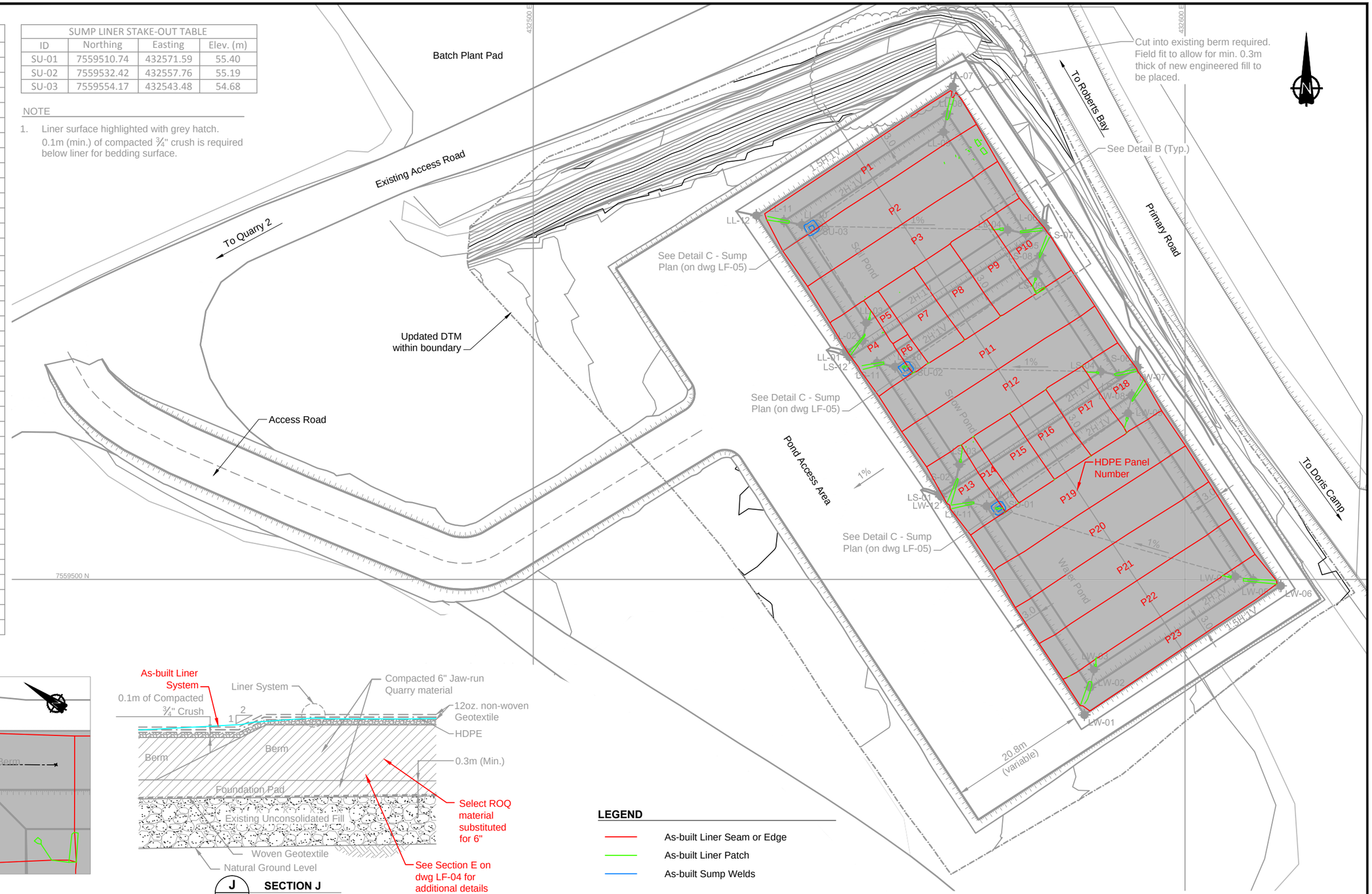
J:\01_SITES\Hope Bay\ACAD\2011 Drawings\Land Farm\As-builts\1CH008.033-Land Farm_LF-07.dwg

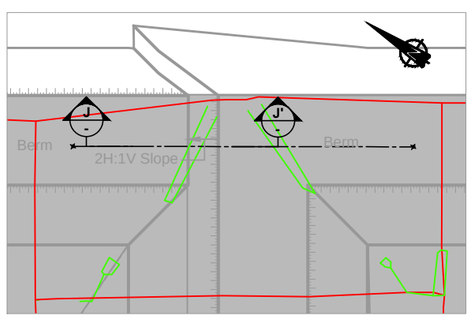
WATER POND LINER STAKE-OUT TABLE			
ID	Northing	Easting	Elev. (m)
LW-01	7559479.20	432584.55	56.80
LW-02	7559483.43	432585.43	56.80
LW-03	7559486.20	432586.00	55.80
LW-04	7559500.44	432607.69	55.80
LW-05	7559499.87	432610.46	56.80
LW-06	7559498.99	432614.69	56.80
LW-07	7559532.48	432592.70	56.80
LW-08	7559528.25	432591.83	56.80
LW-09	7559525.48	432591.25	55.80
LW-10	7559511.23	432569.56	55.80
LW-11	7559511.81	432566.79	56.80
LW-12	7559512.68	432562.56	56.80
SNOW POND LINER STAKE-OUT TABLE			
LS-01	7559513.16	432562.25	56.50
LS-02	7559514.86	432564.79	56.50
LS-03	7559517.63	432565.36	55.50
LS-04	7559531.87	432587.05	55.50
LS-05	7559531.30	432589.82	56.50
LS-06	7559532.95	432592.39	56.50
LS-07	7559553.88	432578.65	56.50
LS-08	7559549.65	432577.77	56.50
LS-09	7559546.88	432577.20	55.50
LS-10	7559532.63	432555.51	55.50
LS-11	7559533.21	432552.74	56.50
LS-12	7559534.08	432548.51	56.50
SOIL POND LINER STAKE-OUT TABLE			
LL-01	7559534.89	432547.98	56.00
LL-02	7559536.60	432550.51	56.00
LL-03	7559539.37	432551.08	55.00
LL-04	7559553.61	432572.78	55.00
LL-05	7559553.04	432575.55	56.00
LL-06	7559554.69	432578.12	56.00
LL-07	7559575.62	432564.37	56.00
LL-08	7559571.39	432563.50	56.00
LL-09	7559568.62	432562.92	55.00
LL-10	7559554.37	432541.23	55.00
LL-11	7559554.95	432538.46	56.00
LL-12	7559555.82	432534.23	56.00

SUMP LINER STAKE-OUT TABLE			
ID	Northing	Easting	Elev. (m)
SU-01	7559510.74	432571.59	55.40
SU-02	7559532.42	432557.76	55.19
SU-03	7559554.17	432543.48	54.68

NOTE

1. Liner surface highlighted with grey hatch. 0.1m (min.) of compacted ¾" crush is required below liner for bedding surface.





DETAIL B (TYPICAL)

0 1 2 3 4 5
Scale in Metres

J - **SECTION J**

Not to Scale

LEGEND

- As-built Liner Seam or Edge
- As-built Liner Patch
- As-built Sump Welds

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
–	–		

REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
AB	AS-BUILT	MMM	LW	04/20/12
1	SUMP DETAILS ADDED	JBK	LW	07/11/11
0	ISSUED FOR CONSTRUCTION	JBK	EMR	06/28/11

REVISIONS

This drawing is uncontrolled when printed unless stamped and signed with original ink and recorded on a Distribution Register.

PROFESSIONAL ENGINEERS STAMP

srk consulting

DESIGN: CB/JBK	DRAWN: NV/LR	REVIEWED: EMR
CHECKED: MMM	APPROVED: EMR	DATE: APR. 20, 2012

FILE NAME: 1CH008.033–Land Farm_Liner–LF–08.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LTD.

SRK JOB NO.: 1CH008.033/.058 SRK DWG NO.: LF-08

Doris North Project

DRAWING TITLE:

Land Farm Liner Plan View

NEWMONT DRAWING NO.	SHEET	REVISION NO.
HB+D-CIV-CIV-OND-0131	9 OF 9	AB

J:\01_SITES\Hope.Bay\LACAD\2011 Drawings\Land Farm\As-builts\1CH008.033-Land Farm_Liner-LF-08.dwg

Engineering Drawings for the Doris North Tail Lake Access Road, Doris North Project, Nunavut, Canada

ACTIVE DRAWING STATUS

DWG NUMBER	NEWMONT DWG NUMBER	DRAWING TITLE	REVISION	DATE	STATUS	OLD/REPLACED REVISIONS	
DN-TLAR-00	HB+T-CIV-CIV-OND-0050	Engineering Drawings for the Doris North Tail Lake Access Road	AB	Apr. 20, 2012	2011 As-built	Rev 0, May 13, 2011	Rev A, Mar. 18, 2011
DN-TLAR-01	HB+T-CIV-CIV-OND-0051	General Arrangement of Secondary Road and Tail Lake Access Road	0	May 13, 2011	Issued for Construction	Rev A, Mar. 18, 2011	
DN-TLAR-02	HB+T-CIV-CIV-OND-0052	Tail Lake Access Road Plan and Profile	AB	Apr. 20, 2012	2011 As-built	Rev 0, May 13, 2011	Rev A, Mar. 18, 2011
DN-TLAR-03	HB+T-CIV-CIV-OND-0053	Tail Lake Access Road Details	AB	Apr. 20, 2012	2011 As-built	Rev 0, May 13, 2011	Rev A, Mar. 18, 2011

HOPE BAY MINING LTD.

srk consulting

PROJECT NO: 1CH008.033
2011 AS-Built
Revision AB,
Apr. 20, 2012
DN-TLAR-00 / HB+T-CIV-CIV-OND-0050

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LEGEND

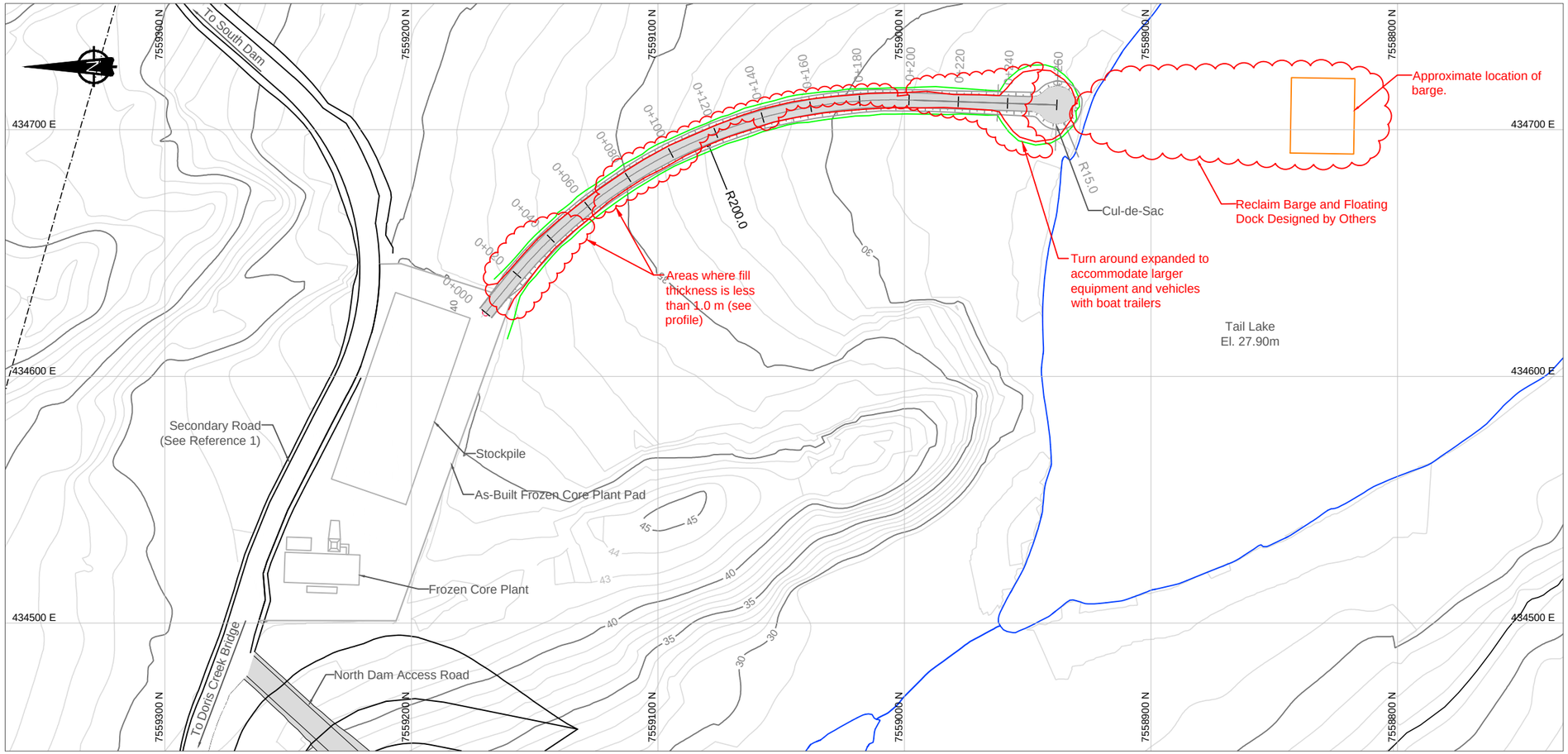
- Route Centerline with Chainage Marker (0+100)
- Point of Curve/Tangent
  - PC - curve segment ;
  - PRC - intersection of two curves;
  - PT - straight line segment
- Toe of Fill / Cut Daylighting
- Centerline of Road
- Crest of Road
- Ponds, Lakes or Permanent Water Bodies
- Commercial Lease Boundary
- As-built Crest
- As-built Toe

NOTES

1. Traffic signs, kilometre markers, and reflective markers shall be installed as required according to the HBML Health and Safety Manual and all relevant rules and regulations. The Construction Manager will be responsible for this.
2. An operational procedure for use of the road is required according to the HBML Health and Safety Manual and all relevant rules and regulation.

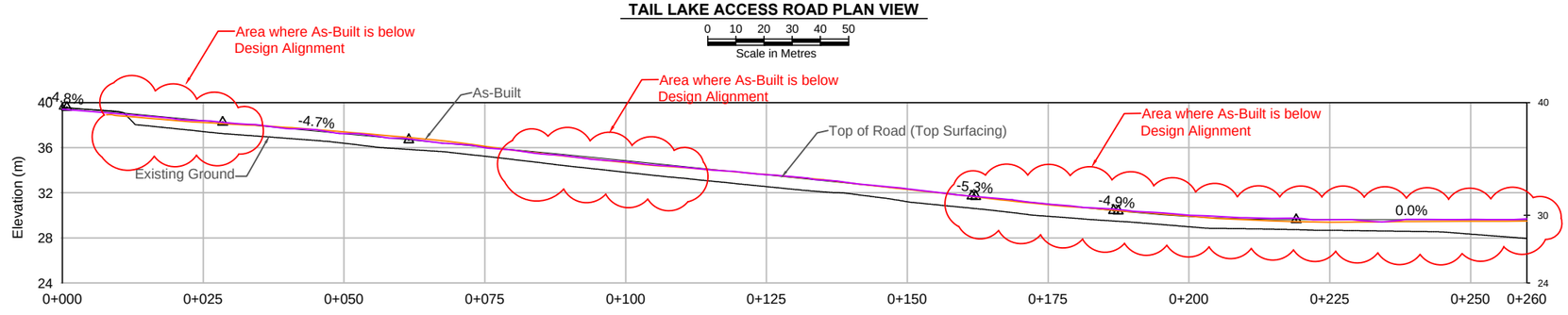
REFERENCE

1. For detailed design refer to engineering drawings for the Doris North Secondary Road, Doris North Project, Nunavut, Canada, Revision 2, SRK, 2010.



TAIL LAKE ACCESS ROAD PLAN VIEW

0 10 20 30 40 50
Scale in Metres



TAIL LAKE ACCESS ROAD PROFILE- 2x VERT. EX.

0 5 10 15 20 25
Scale in Metres

PROFILE LEGEND

- Point of Vertical Intersection
- 6.1% Grade

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
REFERENCE DRAWINGS			

NO.	DESCRIPTION	CHK'D	APP'D	DATE
AB	As-Built	MM	EMR	20Apr12
0	Issued for Construction	MM	EMR	13May11
A	Issued for Review	LW	EMR	18Mar11

REVISIONS

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PROFESSIONAL ENGINEERS STAMP

srk consulting

DESIGN: LW	DRAWN: BFM	REVIEWED: LW
CHECKED: MMM	APPROVED: EMR	DATE: Apr. 20, 2012

FILE NAME: 1CH008_033_211-2_AB.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LTD

SRK JOB NO.: 1CH008.033.211 SRK DWG NO.: DN-TLAR-02

Doris North Project

DRAWING TITLE: Tail Lake Access Road Plan and Profile

DRAWING NO. HB+T-CIV-CIV-OND-0052 | SHEET 3 of 4 | REVISION NO. AB

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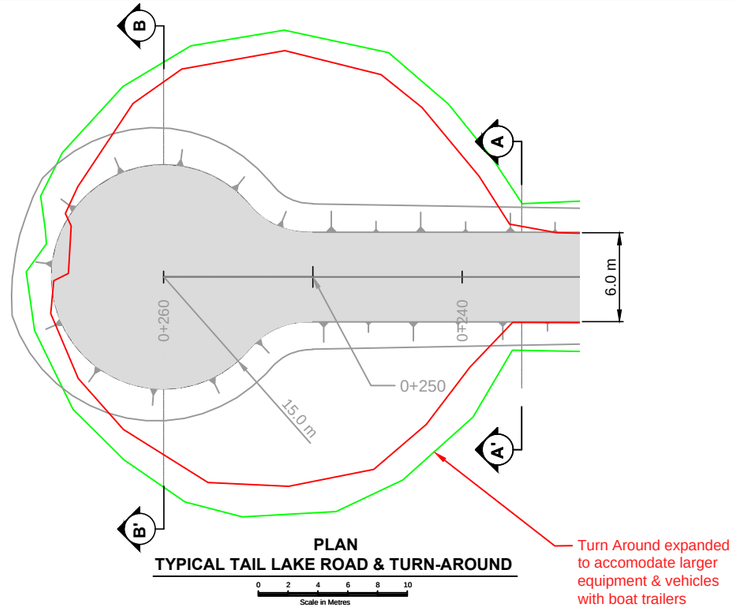


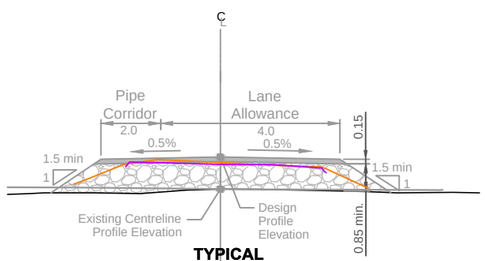
PLAN
TYPICAL TAIL LAKE ROAD & TURN-AROUND

Materials List and Quantities

Item	Quantity / Area / Volume	Description
1. Run of Quarry Material	Road 0+000 to 0+260 Volume 1960 m³	Approximate In-Place Neat-line Volume (Includes Turn-Around)
2. Surface Grade Material	Road 0+000 to 0+260 Volume 252 m³	Approximate In-Place Neat-line Volume (Includes Turn-Around)

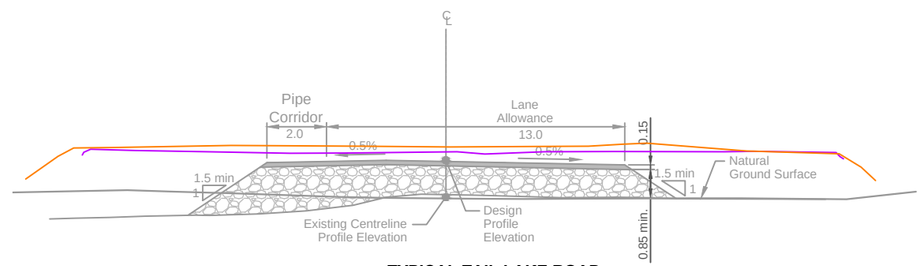
Tail Lake Access Road Design Profile Stakeout Points

STATION	EASTING	NORTHING	ELEVATION
0+000	434625.81	7559169.81	39.60
0+020	434641.25	7559157.10	38.65
0+040	434655.85	7559143.44	37.71
0+060	434669.02	7559128.40	36.77
0+080	434680.61	7559112.11	35.82
0+100	434690.53	7559094.75	34.84
0+120	434698.66	7559076.49	33.85
0+140	434704.92	7559057.51	32.82
0+160	434709.26	7559037.99	31.78
0+180	434711.63	7559018.14	30.74
0+200	434712.01	7558998.15	29.88
0+220	434711.35	7558978.16	29.60
0+240	434710.69	7558958.18	29.60
0+250	434710.36	7558948.18	29.60
0+260	434710.03	7558938.20	29.60



A **TYPICAL TAIL LAKE ROAD SECTION**

0 1 2 3 4 5
Scale in Metres



B **TYPICAL TAIL LAKE ROAD WITH TURN-AROUND SECTION**

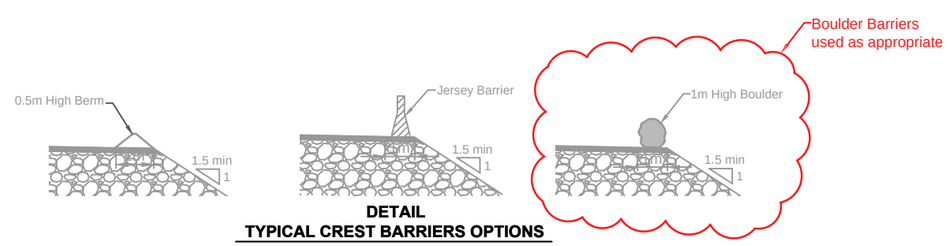
0 1 2 3 4 5
Scale in Metres

LEGEND

- Surfacing Material
- Run of Quarry Material
- As-built Crest
- As-built Toe
- As-built Final Surface (after Crush)
- As-built ROQ

NOTES

1. All dimensions in metres unless noted otherwise.
2. Minimum design thickness must be maintained for all sections of the Secondary road including turnouts.
3. Locations for animal crossings will be identified by Land Owner and Elders once road construction is completed.
4. The Secondary Road crest width is to be widened by 1.0m on each side of the road in areas where the road thickness is greater than 3.0m to allow for the placement of barriers.
5. The barriers are to consist of boulders larger than 1m in diameter, jersey-barriers (1.82 long X 1.37m high X 0.61m wide) or a rock fill berm 0.5m high. Maximum spacing between barriers is 3.3m.
6. Notes in this drawing apply to all other active drawings.



DETAIL
TYPICAL CREST BARRIERS OPTIONS

0 1 2 3 4 5
Scale in Metres

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE

REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
AB	As– Built	MM	EMR	20Apr12
0	Issued for Construction	MM	EMR	13May11
A	Issued for Review	LW	EMR	18May11

REVISIONS

This drawing is uncontrolled when printed unless stamped and signed with original ink and recorded on a Distribution Register.

PROFESSIONAL ENGINEERS STAMP

srk consulting

DESIGN: LW | DRAWN: BFM | REVIEWED: LW
CHECKED: MMM | APPROVED: EMR | DATE: Apr. 20, 2012
FILE NAME: 1CH008_033_211-2_AB.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LTD

SRK JOB NO.: 1CH008.033.211 | SRK DWG NO.: DN-TLAR-03

Doris North Project

DRAWING TITLE: Tail Lake Access Road Details

DRAWING NO. HB+T-CIV-CIV-OND-0053 | SHEET 4 of 4 | REVISION NO. AB

\\VAN-SVR0\Projects\01_SITES\Hope Bay\ACAD\2011 Drawings\Tail Lake Access Road\REV AB\1C-H008_033_211-2_AB.dwg

Engineering Drawings for the Doris North Primary Vent Raise Pad, Doris North Project, Nunavut, Canada

ACTIVE DRAWING STATUS

DWG NUMBER	NEWMONT DWG NUMBER	DRAWING TITLE	REVISION	DATE	STATUS	OLD/REPLACE REVISION		
DN-PVR-00	HB+D-CIV-CIV-OND-0132	Engineering Drawings for the Primary Vent Raise Pad	AB	May 4, 2012	2011 As-built	Rev. 1, Aug. 8, 2011	Rev. 0, Aug. 2, 2011	Rev. A, July 8, 2011
DN-PVR-01	HB+D-CIV-CIV-OND-0133	General Arrangement	AB	May 4, 2012	2011 As-built	Rev. 0, Aug. 8, 2011	Rev. A, July 8, 2011	
DN-PVR-02	HB+D-CIV-CIV-OND-0134	Vent Raise Pad Final Plan Layout	AB	May 4, 2012	2011 As-built	Rev. 0, Aug. 8, 2011	Rev. A, July 8, 2011	
DN-PVR-03	HB+D-CIV-CIV-OND-0135	Vent Raise Pad Sections	AB	May 4, 2012	2011 As-built	Rev. 0, Aug. 8, 2011	Rev. A, July 8, 2011	
DN-PVR-04	HB+D-CIV-CIV-OND-0136	Fuel Tank Subgrade Plan and Liner Cover Plan Layout	AB	May 4, 2012	2011 As-built	Rev. 0, Aug. 8, 2011	Rev. A, July 8, 2011	
DN-PVR-05	HB+D-CIV-CIV-OND-0137	Fuel Tank Sections	AB	May 4, 2012	2011 As-built	Rev. 0, Aug. 8, 2011	Rev. A, July 8, 2011	
DN-PVR-06	HB+D-CIV-CIV-OND-0138	Vent Raise Pad Bedrock Excavation	AB	May 4, 2012	2011 As-built	Rev. 0, Aug. 2, 2011		
DN-PVR-07	HB+D-CIV-CIV-OND-0139	Vent Raise Pad ROQ Fill	AB	May 4, 2012	2011 As-built	Rev. 0, Aug. 8, 2011		

HOPE BAY MINING LTD.

srk consulting

PROJECT NO: 1CH008.033
ISSUED FOR CONSTRUCTION
2011 AS-BUILT,
May 4, 2012
DN-PVR-00 / HB+D-CIV-CIV-OND-0132

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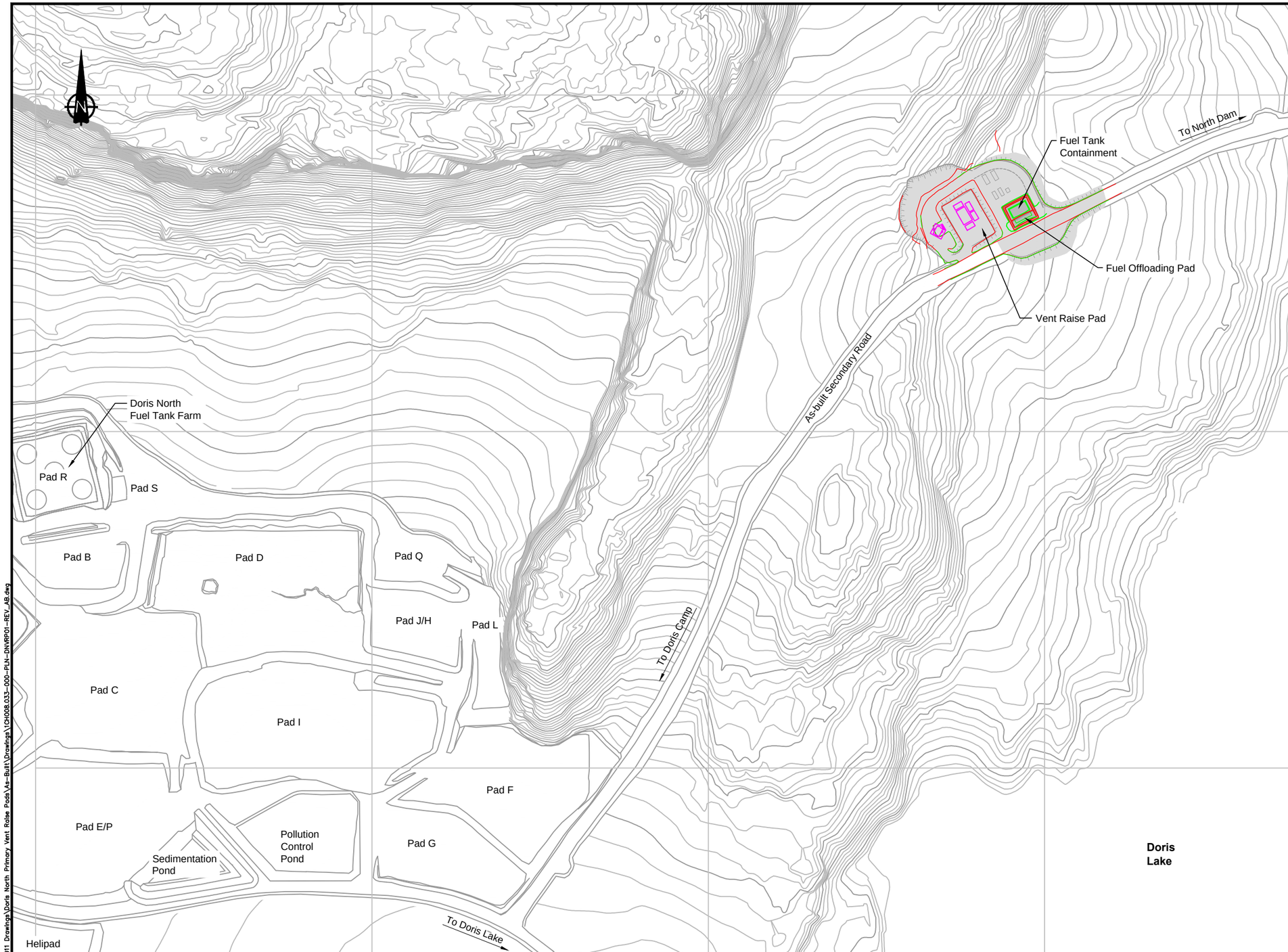

LEGEND

- Primary Vent Raised Pad Infrastructure
- Fuel Transfer Containment Infrastructure
- As-built Crest (2011 As-built)
- As-built Toe (2011 As-built)
- As-built Buildings (2011 As-built)

NOTES

1. The Contractor is not responsible to obtain all necessary permits and approvals for the Works; however, the Contractor must confirm that such approvals have been obtained from the Owner prior to proceeding with any construction.
2. Topographic contour data for the terrain model was provided by the Contractor.
3. The co-ordinate system is UTM NAD 83, Zone 13.
4. All dimensions are in metric units, unless specifically mentioned.
5. Typical details are Not to Scale (NTS) unless specifically mentioned.
6. All drawings are scaled appropriately for D-Size construction drawings. Scales may not be correct if these drawings are reproduced and presented in any other size format.
7. Notes and specifications on any drawings in this set apply equally to all drawings in the set.
8. All work is to be set out prior to the start of any construction, according to the Stake-Out Tables or 3D surface files provided. Should there be any difference between the co-ordinates provided and the field location, the Engineer is to be informed immediately.
9. All engineering specifications for execution of the works are listed on the drawings or in the Technical Specifications: Earth Works and Geotechnical Engineering, Hope Bay Project, Nunavut, Canada, Revision G - Issued for Construction.
10. The scope of work described in these drawings specifically exclude all electrical and mechanical elements.

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
–	–		

REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
AB	AS-BUILT	JK	EMR	04MAY12
0	ISSUED FOR CONSTRUCTION	IM	LW	08AUG11
A	ISSUED FOR REVIEW	IM	EMR	08JUL11

REVISIONS

Original Drawings Stamped and Signed by Engineer

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PROFESSIONAL ENGINEERS STAMP

srk consulting

DESIGN: IM	DRAWN: LR	REVIEWED: EMR
CHECKED: IM/JBK	APPROVED: LW	DATE: MAY 04, 2012

FILE NAME: 1CH008.033–000–PLN–DNVRP01–REV_AB.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LTD.

SRK JOB NO.: 1CH008.033/.058 SRK DWG NO.: DN-PVR-01

Doris North Project

DRAWING TITLE:

Vent Raise Pads
General Arrangement

NEWMONT DRAWING NO. HB+T-CIV-CIV-OND-0133

SHEET 2 OF 8

REVISION NO. AB

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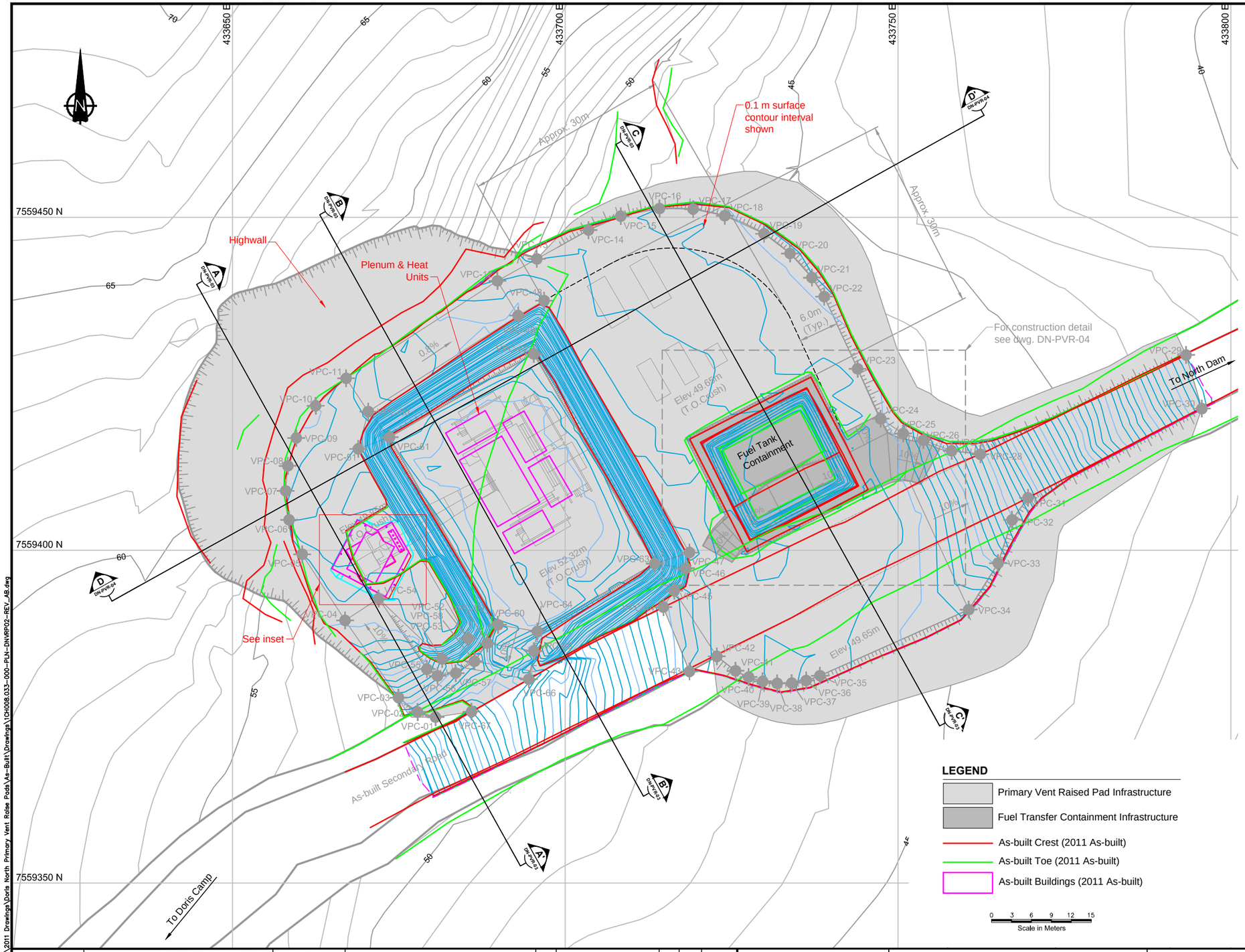
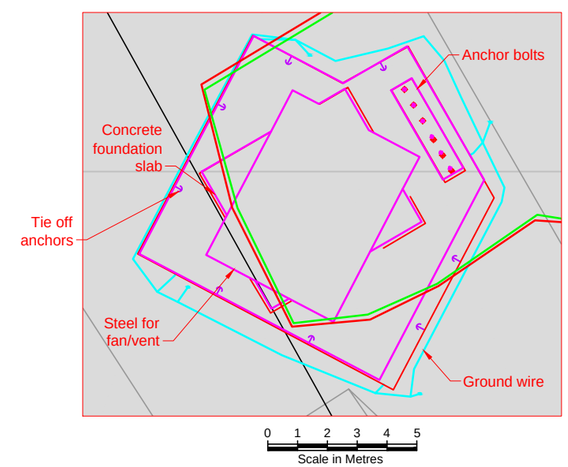


PRIMARY VENT RAISE PAD TOP OF CRUSH STAKE OUT TABLE			
ID	Northing	Easting	Elev. (m)
VPC-01	7559374.92	433680.51	51.89
VPC-02	7559375.69	433677.82	51.61
VPC-03	7559377.85	433674.96	51.25
VPC-04	7559389.46	433666.92	49.85
VPC-05	7559399.39	433660.48	49.85
VPC-06	7559404.55	433658.52	49.85
VPC-07	7559408.91	433658.00	49.85
VPC-08	7559412.66	433658.32	49.85
VPC-09	7559416.86	433659.60	49.85
VPC-10	7559421.69	433662.50	49.85
VPC-11	7559425.81	433667.09	49.85
VPC-12	7559440.44	433689.80	49.65
VPC-13	7559443.75	433695.73	49.65
VPC-14	7559448.07	433703.50	49.65
VPC-15	7559450.16	433708.34	49.65
VPC-16	7559451.31	433714.16	49.65
VPC-17	7559451.22	433719.21	49.65
VPC-18	7559450.22	433723.95	49.65
VPC-19	7559447.52	433729.87	49.65
VPC-20	7559444.57	433733.77	49.65
VPC-21	7559440.94	433737.06	49.65
VPC-22	7559438.09	433738.90	49.65
VPC-23	7559427.24	433743.92	49.65
VPC-24	7559419.75	433747.38	49.65
VPC-25	7559417.53	433750.77	49.65
VPC-26	7559416.51	433753.81	49.19
VPC-27	7559414.92	433758.05	48.86
VPC-28	7559414.40	433762.35	48.49
VPC-29	7559429.32	433793.28	45.09
VPC-30	7559421.26	433795.64	45.09
VPC-31	7559407.86	433769.52	48.10
VPC-32	7559404.56	433767.12	48.45
VPC-33	7559398.06	433765.04	48.95
VPC-34	7559391.07	433760.61	49.65
VPC-35	7559381.15	433738.27	49.65

PRIMARY VENT RAISE PAD TOP OF CRUSH STAKE OUT TABLE			
ID	Northing	Easting	Elev. (m)
VPC-36	7559380.43	433736.20	49.65
VPC-37	7559380.05	433734.03	49.65
VPC-38	7559380.00	433731.84	49.65
VPC-39	7559380.30	433729.66	49.65
VPC-40	7559380.94	433727.56	49.65
VPC-41	7559381.89	433725.58	49.65
VPC-42	7559384.06	433722.78	49.65
VPC-43	7559381.35	433712.50	49.34
VPC-44	7559391.45	433714.73	49.35
VPC-45	7559393.91	433716.38	49.65
VPC-46	7559397.28	433718.12	49.65
VPC-47	7559399.65	433718.66	49.65
VPC-48	7559437.49	433696.82	49.65
VPC-49	7559435.24	433692.92	49.65
VPC-50	7559420.82	433670.42	49.85
VPC-51	7559415.22	433668.91	49.85
VPC-52	7559386.76	433685.40	49.85
VPC-53	7559383.65	433681.49	49.85
VPC-54	7559392.72	433671.96	49.85
VPC-55	7559382.13	433679.22	51.14
VPC-56	7559381.12	433680.81	51.25
VPC-57	7559381.53	433683.55	51.58
VPC-58	7559383.30	433686.37	51.72
VPC-59	7559386.02	433688.29	52.02
VPC-60	7559388.79	433689.88	52.32
VPC-61	7559416.96	433673.61	52.32
VPC-62	7559429.47	433695.28	52.32
VPC-63	7559398.00	433713.45	52.32
VPC-64	7559387.79	433695.80	52.32
VPC-65	7559384.83	433695.30	52.02
VPC-66	7559380.62	433694.52	51.70
VPC-67	7559375.75	433685.92	52.50



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REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
AB	AS-BUILT	JBK	EMR	04MAY12
0	ISSUED FOR CONSTRUCTION	IM	LW	08AUG11
A	ISSUED FOR REVIEW	IM	EMR	08JUL11

REVISIONS

Original Drawings Stamped and Signed by Engineer

This drawing is uncontrolled when printed unless stamped and signed with original ink and recorded on a Distribution Register.

PROFESSIONAL ENGINEERS STAMP

srk consulting

DESIGN: IM	DRAWN: LR	REVIEWED: EMR
CHECKED: IM/JBK	APPROVED: LW	DATE: MAY 04, 2012

FILE NAME: 1CH008.033-000-PLN-DNVRP02-REV_AB.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LTD.

SRK JOB NO.: 1CH008.033/.0.58 SRK DWG NO.: DN-PVR-02

Doris North Project

DRAWING TITLE:

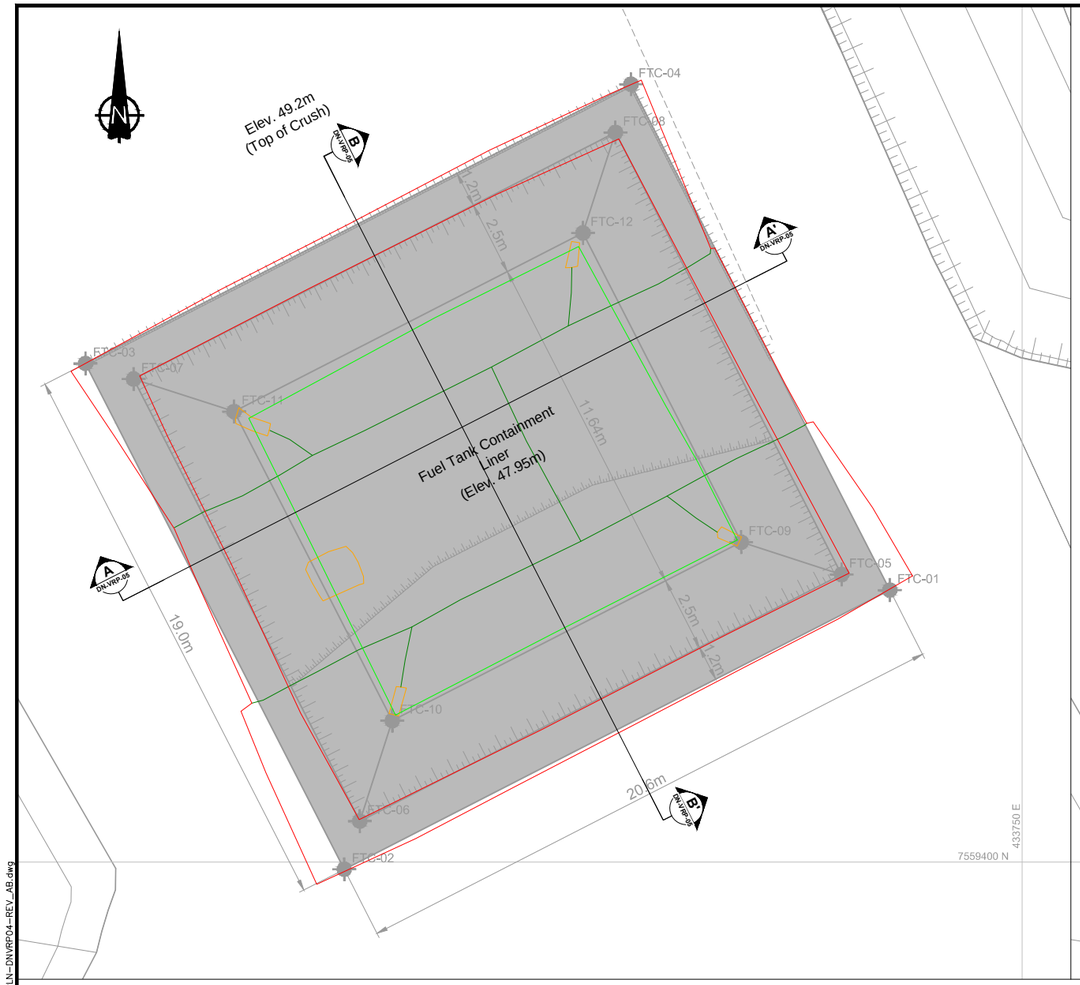
Vent Raise Pad Final Plan Layout

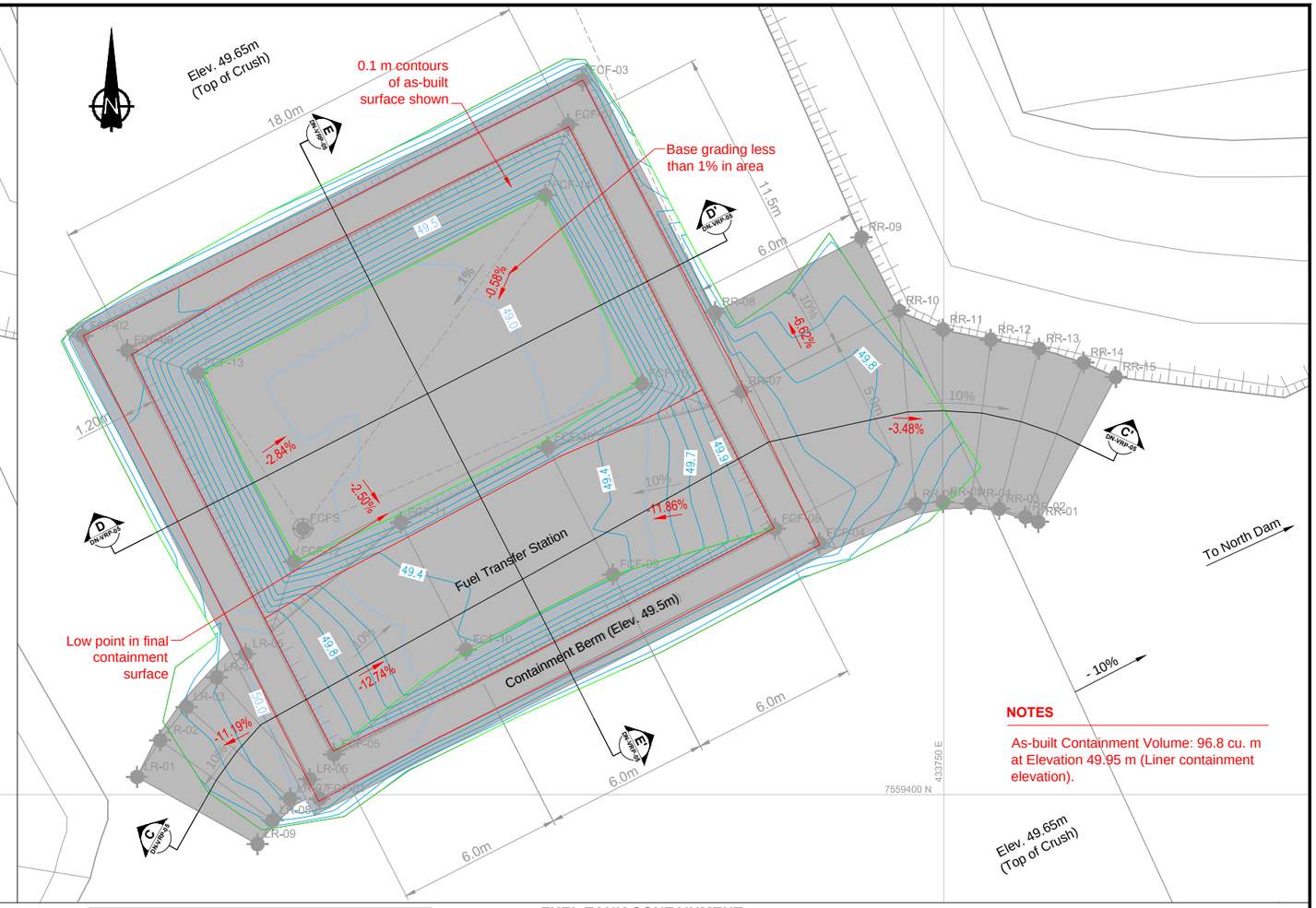
NEWMONT DRAWING NO. HB+T-CIV-CIV-OND-0134

SHEET 3 OF 8

REVISION NO. AB

J:\01_SITES\Hope.Bay\1ACAD\2011 Drawings\Doris North Primary Vent Raise Pads\As-Built\Drawings\1CH008.033-000-PLN-DNVRP02-REV_AB.dwg





NOTES

As-built Containment Volume: 96.8 cu. m at Elevation 49.95 m (Liner containment elevation).

FUEL TANK CONTAINMENT BEDDING LAYER STAKE-OUT TABLE

ID	Northing	Easting	Elev. (m)
FTC-01	7559409.11	433745.57	49.65
FTC-02	7559399.76	433727.28	49.65
FTC-03	7559416.71	433718.61	49.65
FTC-04	7559426.07	433736.89	49.65
FTC-05	7559409.64	433743.95	49.65
FTC-06	7559401.37	433727.80	49.65
FTC-07	7559416.19	433720.22	49.65
FTC-08	7559424.45	433736.37	49.65
FTC-09	7559410.72	433740.58	48.40
FTC-10	7559404.74	433728.89	48.40
FTC-11	7559415.10	433723.59	48.40
FTC-12	7559421.08	433735.28	48.40

A DN-VRP-05 FUEL TANK CONTAINMENT LINER PLAN

0 1 2 3 4 5
Scale in Meters

LEGEND

- Fuel Transfer Containment Infrastructure
- Stake Out Points
- Crush Above Liner Major Contour (2011 As-built)
- Crush Above Liner Minor Contour (2011 As-built)
- As-built Crest
- As-built Toe
- As-built Liner Seam
- As-built Liner Patch

NOTES

1. The co-ordinate system is UTM NAD 83, Zone 13.
2. All drawings are scaled appropriately for D-Size construction drawings. Scales may not be correct if these drawings are reproduced and presented in any other size format.

FUEL TANK CONTAINMENT FINAL SURFACE STAKE-OUT TABLE

ID	Northing	Easting	Elev.(m)
FCF-01	7559399.85	433727.31	49.95
FCF-02	7559416.68	433718.70	49.95
FCF-03	7559425.97	433736.86	49.95
FCF-04	7559409.15	433745.47	49.95
FCF-05	7559401.47	433727.83	49.95
FCF-06	7559416.16	433720.32	49.95
FCF-07	7559424.36	433736.34	49.95
FCF-08	7559409.67	433743.86	49.95
FCF-09	7559408.00	433737.97	49.35
FCF-10	7559405.27	433732.63	49.35
FCF-11	7559409.90	433730.26	49.25
FCF-12	7559408.48	433726.38	49.00
FCF-13	7559415.33	433722.87	49.00
FCF-14	7559421.80	433735.51	49.00
FCF-15	7559414.94	433739.02	49.00
FCF-16	7559412.63	433735.60	49.25

B DN-VRP-05 FUEL TANK CONTAINMENT LINER COVER LAYOUT PLAN

0 1 2 3 4 5
Scale in Meters

FUEL TANK CONTAIMENT BERM SUMP STAKE OUT TABLE

ID	Northing	Easting	Elev.(m)
FCFS	7559409.67	433726.71	48.85

FUEL TANK CONTAINMENT RAMP (LEFT) STAKE-OUT TABLE

ID	Northing	Easting	Elev.(m)
LR-01	7559400.64	433720.67	49.65
LR-02	7559401.98	433721.51	49.75
LR-03	7559403.19	433722.48	49.85
LR-04	7559404.26	433723.57	49.95
LR-05	7559405.12	433724.62	49.95
LR-06	7559400.56	433726.95	49.95
LR-07	7559399.86	433726.24	49.85
LR-08	7559399.06	433725.61	49.75
LR-09	7559398.20	433725.05	49.65

FUEL TANK CONTAINMENT RAMP (RIGHT) STAKE-OUT TABLE

ID	Northing	Easting	Elev.(m)
RR-01	7559409.92	433753.43	49.50
RR-02	7559410.10	433752.96	49.55
RR-03	7559410.39	433752.01	49.65
RR-04	7559410.58	433750.98	49.75
RR-05	7559410.64	433749.96	49.85
RR-06	7559410.56	433748.97	49.95
RR-07	7559414.66	433742.65	49.95
RR-08	7559417.54	433741.68	49.65
RR-09	7559420.26	433747.00	49.65
RR-10	7559417.59	433748.37	49.95
RR-11	7559416.90	433749.96	49.85
RR-12	7559416.54	433751.70	49.75
RR-13	7559416.21	433753.46	49.65
RR-14	7559415.71	433755.08	49.40
RR-15	7559415.18	433756.25	49.05

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
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REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
AB	AS-BUILT	JBK	EMR	04MAY12
0	ISSUED FOR CONSTRUCTION	IM	LW	08AUG11
A	ISSUED FOR DISCUSSION	IM	EMR	08JUL11

REVISIONS

Original Drawings Stamped and Signed by Engineer

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PROFESSIONAL ENGINEERS STAMP

srk consulting

DESIGN: IM	DRAWN: LR	REVIEWED: LW
CHECKED: IM/JBK	APPROVED: LW	DATE: MAY 04, 2012

FILE NAME: 1CH008.033–000–PLN–DNVRP04–REV_AB.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LTD.

SRK JOB NO.: 1CH008.033/.058 SRK DWG NO.: DN-PVR-04

Doris North Project

DRAWING TITLE: Fuel Tank Containment Subgrade Plan & Liner Cover Layout Plan

NEWMONT DRAWING NO. HB+D-CIV-CIV-OND-0136 | SHEET 5 OF 8 | REVISION NO. AB

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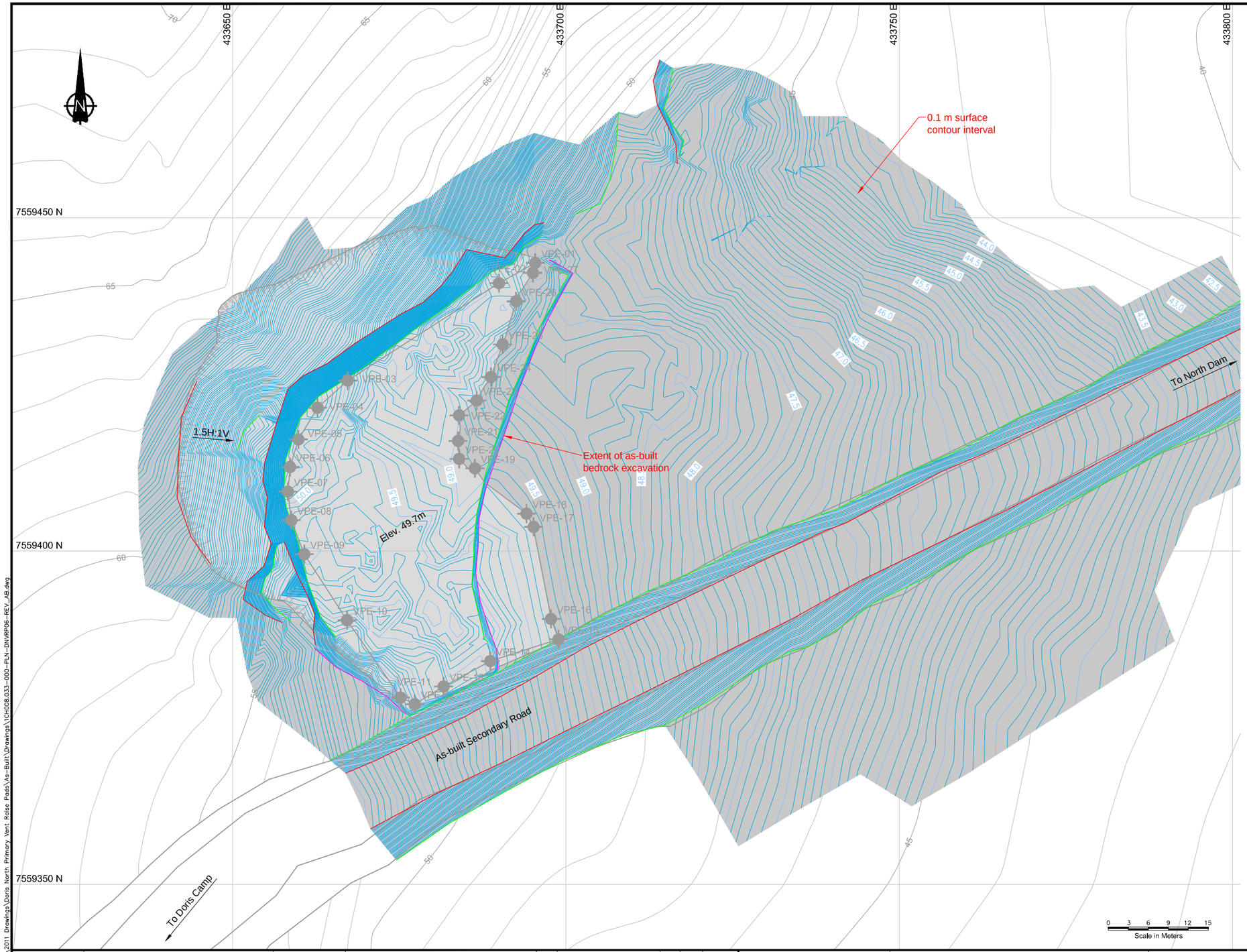

PRIMARY VENT RAISED PAD EXCAVATION STAKE OUT TABLE			
ID	Northing	Easting	Elev. (m)
VPE-01	7559443.22	433695.40	49.70
VPE-02	7559440.19	433689.95	49.70
VPE-03	7559425.57	433667.27	49.70
VPE-04	7559421.50	433662.73	49.70
VPE-05	7559416.74	433659.87	49.70
VPE-06	7559412.61	433658.62	49.70
VPE-07	7559408.92	433658.30	49.70
VPE-08	7559404.63	433658.81	49.70
VPE-09	7559399.53	433660.75	49.70
VPE-10	7559389.62	433667.17	49.70
VPE-11	7559378.02	433675.20	49.70
VPE-12	7559377.03	433677.32	49.70
VPE-13	7559379.68	433681.65	49.70
VPE-14	7559383.49	433688.65	49.70
VPE-15	7559386.76	433698.88	49.70
VPE-16	7559389.81	433697.76	49.70
VPE-17	7559403.62	433695.15	49.70
VPE-18	7559405.60	433694.09	49.70
VPE-19	7559412.40	433686.35	49.70
VPE-20	7559413.83	433683.98	49.70
VPE-21	7559416.52	433683.84	49.70
VPE-22	7559420.35	433683.98	49.70
VPE-23	7559422.57	433686.61	49.70
VPE-24	7559426.10	433688.76	49.70
VPE-25	7559430.99	433690.51	49.70
VPE-26	7559437.45	433692.53	49.70
VPE-27	7559441.73	433695.05	49.70

LEGEND

- Existing and Excavation Major Contour (2011 As-built)
- Existing and Excavation Minor Contour (2011 As-built)
- As-built Crest
- As-built Toe
- Extent of As-built Bedrock Excavation

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
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REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
AB	AS-BUILT	JBK	EMR	04MAY12
0	ISSUED FOR CONSTRUCTION	IM	LW	02AUG11

REVISIONS

Original Drawings Stamped and Signed by Engineer

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DESIGN: IM | DRAWN: LR | REVIEWED: EMR
CHECKED: IM/JBK | APPROVED: LW | DATE: MAY 04, 2012

FILE NAME: 1CH008.033-000-PLN-DNVRP06-REV_AB.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LTD.

SRK JOB NO.: 1CH008.033/.058 SRK DWG NO.: DN-PVR-06

Doris North Project

DRAWING TITLE:

Vent Raise Pad
Bedrock Excavation

NEWMONT DRAWING NO. HB+T-CIV-CIV-OND-0138 | SHEET 7 OF 8 | REVISION NO. AB

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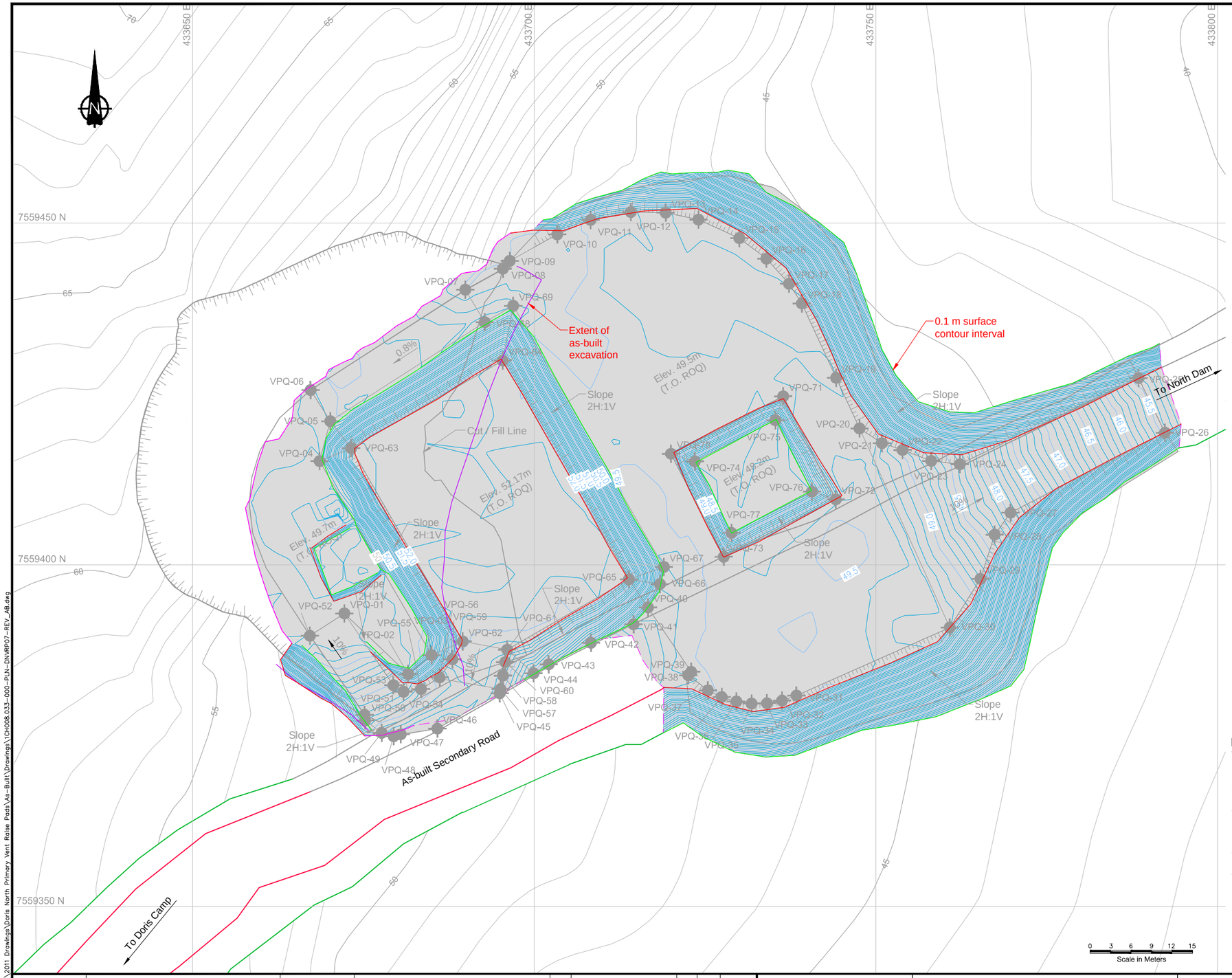

PRIMARY VENT RAISE PAD ROQ FILL STAKE OUT TABLE				PRIMARY VENT RAISE PAD ROQ FILL STAKE OUT TABLE			
ID	Northing	Easting	Elev. (m)	ID	Northing	Easting	Elev. (m)
VPQ-01	7559392.89	433672.21	49.70	VPQ-41	7559391.74	433715.36	49.80
VPQ-02	7559384.02	433681.54	49.70	VPQ-42	7559388.59	433708.30	50.25
VPQ-03	7559386.78	433684.98	49.70	VPQ-43	7559385.44	433702.12	50.85
VPQ-04	7559415.18	433668.59	49.70	VPQ-44	7559384.13	433699.90	51.05
VPQ-05	7559421.01	433670.16	49.70	VPQ-45	7559381.20	433694.94	51.56
VPQ-06	7559425.57	433667.27	49.70	VPQ-46	7559376.04	433685.82	52.35
VPQ-07	7559440.25	433689.91	49.50	VPQ-47	7559375.21	433680.46	51.74
VPQ-08	7559443.31	433695.42	49.50	VPQ-48	7559374.92	433679.42	51.64
VPQ-09	7559444.47	433696.42	49.50	VPQ-49	7559375.42	433677.68	51.46
VPQ-10	7559448.34	433703.37	49.50	VPQ-50	7559377.24	433675.26	51.16
VPQ-11	7559450.45	433708.25	49.50	VPQ-51	7559378.06	433675.18	51.10
VPQ-12	7559451.61	433714.14	49.50	VPQ-52	7559389.62	433667.17	49.70
VPQ-13	7559451.52	433719.24	49.50	VPQ-53	7559382.38	433679.38	50.99
VPQ-14	7559450.50	433724.05	49.50	VPQ-54	7559381.44	433680.87	51.10
VPQ-15	7559447.78	433730.02	49.50	VPQ-55	7559381.82	433683.44	51.43
VPQ-16	7559444.79	433733.98	49.50	VPQ-56	7559383.53	433686.16	51.57
VPQ-17	7559441.12	433737.30	49.50	VPQ-57	7559381.82	433695.07	51.57
VPQ-18	7559438.23	433739.17	49.50	VPQ-58	7559383.80	433695.43	51.77
VPQ-19	7559427.37	433744.19	49.50	VPQ-59	7559386.18	433688.04	51.87
VPQ-20	7559419.95	433747.61	49.50	VPQ-60	7559385.77	433695.76	51.97
VPQ-21	7559417.80	433750.90	49.50	VPQ-61	7559387.59	433696.05	52.17
VPQ-22	7559416.79	433753.91	49.04	VPQ-62	7559388.79	433689.54	52.17
VPQ-23	7559415.21	433758.12	48.71	VPQ-63	7559417.07	433673.20	52.17
VPQ-24	7559414.71	433762.30	48.34	VPQ-64	7559429.88	433695.39	52.17
VPQ-25	7559427.32	433788.45	45.46	VPQ-65	7559397.89	433713.86	52.17
VPQ-26	7559419.33	433792.33	45.46	VPQ-66	7559397.18	433718.41	49.50
VPQ-27	7559407.63	433769.72	47.95	VPQ-67	7559399.70	433718.98	49.50
VPQ-28	7559404.42	433767.39	48.30	VPQ-68	7559435.50	433692.77	49.50
VPQ-29	7559397.93	433765.31	48.80	VPQ-69	7559437.90	433696.93	49.50
VPQ-30	7559390.83	433760.82	49.50	VPQ-70	7559416.25	433720.02	49.50
VPQ-31	7559380.88	433738.38	49.50	VPQ-71	7559424.65	433736.44	49.50
VPQ-32	7559380.14	433736.27	49.50	VPQ-72	7559409.57	433744.15	49.50
VPQ-33	7559379.75	433734.06	49.50	VPQ-73	7559401.17	433727.74	49.50
VPQ-34	7559379.70	433731.82	49.50	VPQ-74	7559415.12	433723.53	48.20
VPQ-35	7559380.01	433729.60	49.50	VPQ-75	7559421.15	433735.30	48.20
VPQ-36	7559380.66	433727.45	49.50	VPQ-76	7559410.70	433740.65	48.20
VPQ-37	7559381.64	433725.42	49.50	VPQ-77	7559404.68	433728.87	48.20
VPQ-38	7559383.85	433722.55	49.50				
VPQ-39	7559384.34	433722.98	49.50				
VPQ-40	7559393.77	433716.65	49.50				

LEGEND

- Existing and Excavation Major Contour (2011 As-built)
- Existing and Excavation Minor Contour (2011 As-built)
- As-built Crest
- As-built Toe
- As-built Daylight ROQ
- As-built Excavation Extent

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
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REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
AB	AS-BUILT	JBK	EMR	04MAY12
0	ISSUED FOR CONSTRUCTION	LW	LW	08AUG11

REVISIONS

Original Drawings Stamped and Signed by Engineer

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PROFESSIONAL ENGINEERS STAMP

srk consulting

DESIGN: IM	DRAWN: LR	REVIEWED: EMR
CHECKED: IM	APPROVED: LW	DATE: MAY 04, 2012

FILE NAME: 1CH008.033-000-PLN-DNVRP07-REV_AB.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LTD.

SRK JOB NO.: 1CH008.033/.058 SRK DWG NO.: DN-PVR-07

Doris North Project

DRAWING TITLE:

Vent Raise Pad ROQ Fill

NEWMONT DRAWING NO. HB+T-CIV-CIV-OND-0139

SHEET 8 OF 8

REVISION NO. AB

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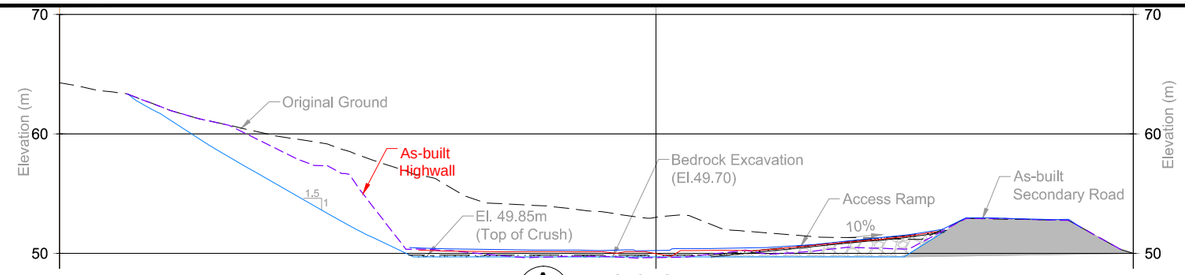
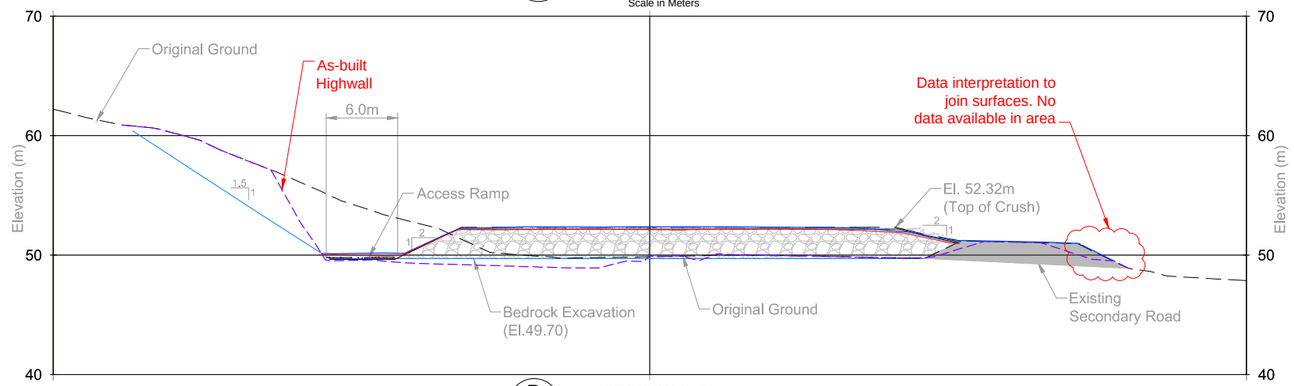


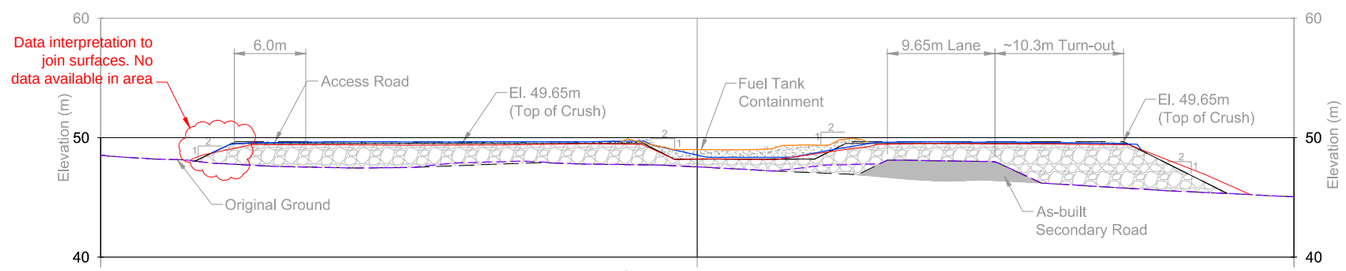
A DN-PVR-02 **SECTION A-A'**

0 2.5 5 7.5 10 12.5
Scale in Meters



B DN-PVR-02 **SECTION B-B'**

0 2.5 5 7.5 10 12.5
Scale in Meters



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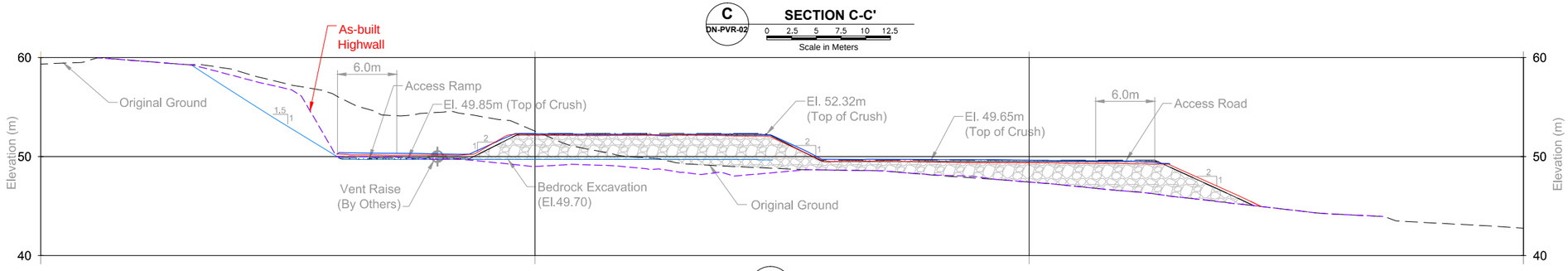
0 2.5 5 7.5 10 12.5
Scale in Meters



D DN-PVR-02 **SECTION D-D'**

0 2.5 5 7.5 10 12.5
Scale in Meters

LEGEND

- ¾" Crushed Material
- 1¼" Crushed Material
- ROQ
- Existing Road
- As-built Crush Above Liner
- As-built Crush
- As-built ROQ
- As-built Excavation

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
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REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
AB	AS-BUILT	JK	EMR	04MAY12
0	ISSUED FOR CONSTRUCTION	LW	LW	08AUG11
A	ISSUED FOR DISCUSSION	IM	EMR	08JUL11

REVISIONS

Original Drawings Stamped and Signed by Engineer

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PROFESSIONAL ENGINEERS STAMP

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DESIGN: IM	DRAWN: LR	REVIEWED: LW
CHECKED: IM/JBK	APPROVED: LW	DATE: MAY 04, 2012

FILE NAME: 1CH008.033-000-SEC-DNVRP03-REV_AB.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LTD.

SRK JOB NO.: 1CH008.033/.058 SRK DWG NO.: DN-PVR-03

Doris North Project

DRAWING TITLE: Vent Raise Pad Sections

NEWMONT DRAWING NO. HB+D-CIV-CIV-OND-0135 | SHEET 4 OF 8 | REVISION NO. AB

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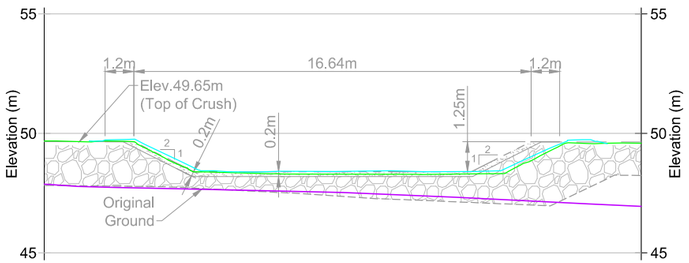

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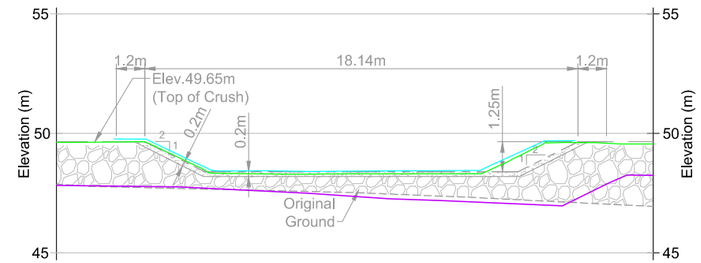
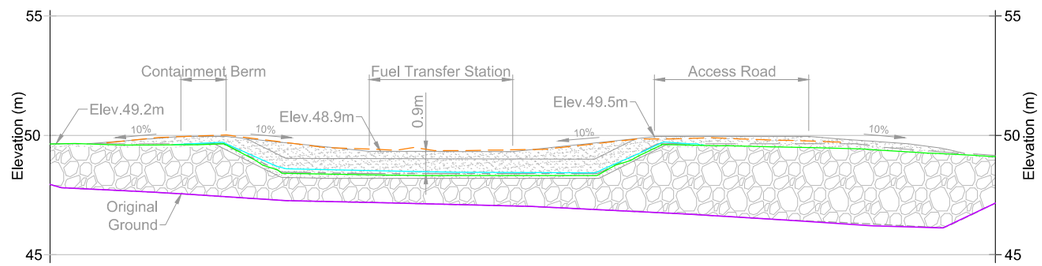
Scale in Meters



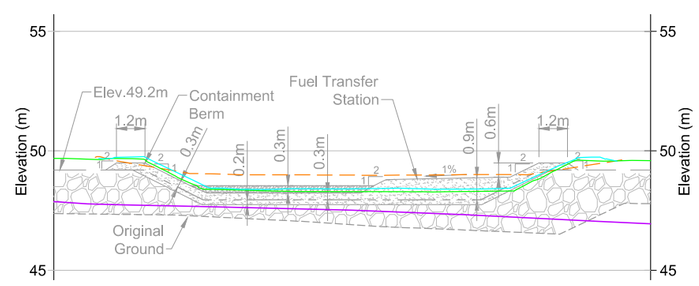
B DN-PVR-04 — **FUEL TANK SECTION B-B'**

0 1.25 2.50 3.75 5 6.25
Scale in Meters



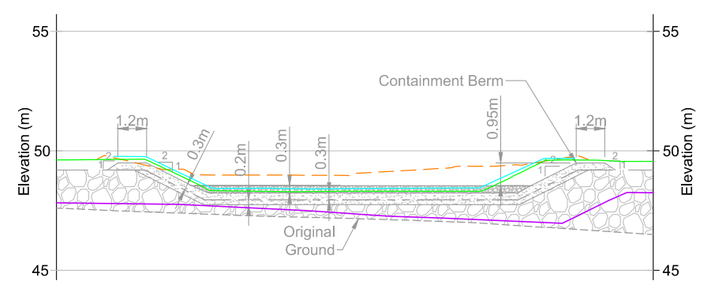
C DN-PVR-04 — **FUEL TANK SECTION C-C'**

0 1.25 2.50 3.75 5 6.25
Scale in Meters



D DN-PVR-04 — **FUEL TANK SECTION D-D'**

0 1.25 2.50 3.75 5 6.25
Scale in Meters



E DN-PVR-04 — **FUEL TANK SECTION E-E'**

0 1.25 2.50 3.75 5 6.25
Scale in Meters

LEGEND

- ¾" Crushed Material
- 1¼" Crushed Material
- ROQ
- Liner System
- As-built Crush Above Liner
- As-built Liner
- As-built Crush Below Liner
- As-built Existing Ground/Excavation

Material List and Quantities

Item	Quantity/Area/Volume		Description
Bedrock Excavation	PVR(Primary Vent Raise)	7,160 m^3	Volumes derived from Gemcom (Gems 6.3) Model and Autodesk Civil 3D 2011
	Total	7,160 m^3	
3/4" Finishing Material	FC (Fuel Containment) Liner Subgrade (0.2m)	82 m^3	Volumes derived from neat design lines
	FC (Fuel Containment) Overliner (0.3m)	123 m^3	
	Total	205 m^3	
Surfacing Material (1-1/4" Crush)	PVR	690 m^3	Volumes derived from neat design lines
	FC Ramps and Main Fill	97 m^3	
	Total	787 m^3	
Run of Quarry (ROQ)	PVR Pad	11,120 m^3	Volumes derived from Gemcom (Gems 6.3) Model
	Total	11,120 m^3	
Geotextile: Non-Woven Needle Punched LP 16 or equivalent	FC (Fuel Containment) Underliner	410 m^2	Volumes derived from Autodesk Civil 3D 2011 (Model)
	FC (Fuel Containment) Overliner	410 m^2	
	Total	820 m^2	
Liner: Double Side Textured HDPE 60 or equivalent	FC (Fuel Containment) Liner	410 m^2	Volumes derived from Autodesk Civil 3D 2011 (Model)
	Total	410 m^2	

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
–	–		

REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
AB	AS-BUILT	JBK	EMR	04MAY12
0	ISSUED FOR CONSTRUCTION	IM	LW	08AUG11
A	ISSUED FOR DISCUSSION	IM	EMR	08JUL11

REVISIONS

Original Drawings Stamped and Signed by Engineer

This drawing is uncontrolled when printed unless stamped and signed with original ink and recorded on a Distribution Register.

PROFESSIONAL ENGINEERS STAMP

srk consulting

DESIGN: IM | DRAWN: LR | REVIEWED: LW
CHECKED: IM/JBK | APPROVED: LW | DATE: MAY 04, 2012
FILE NAME: 1CH008.033-000-SEC-DNVRP05-REV_AB.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LTD.

SRK JOB NO.: 1CH008.033/.058 | SRK DWG NO.: DN-PVR-05

Doris North Project

DRAWING TITLE: Fuel Tank Sections

NEWMONT DRAWING NO. HB+D-CIV-CIV-OND-0137 | SHEET 6 OF 8 | REVISION NO. AB

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Engineering Drawings for the Doris-Windy All-Weather Road, Doris Infrastructure Project, Nunavut, Canada

ACTIVE DRAWING STATUS

DWG No.	DRAWING TITLE	NEWMONT DWG NUMBER	REV.	DATE	STATUS	OLD/REPLACED REVISIONS					
R-00	Engineering Drawings for the Doris-Windy All-Weather Road, Doris Infrastructure Project, Nunavut, Canada	HB+D-CIV-CIV-OND-0021	AB1	May 11, 2012	2011 As-built	Rev. AB, Dec. 16, 2011	Rev. 2, Jul. 26, 2010	Rev. 1, Apr. 12, 2010			
R-01	General Arrangement	HB+D-CIV-CIV-OND-0022	4	Mar. 26, 2010	IFC-Fill Thickness Modified	Rev. 3, Mar. 9, 2010	Rev. 2, Oct. 7, 2008	Rev. 1, Sept. 26, 2008	Rev. 0, Sept. 5, 2008	Rev. A, Aug. 15, 2008	
R-02	Road Alignment Plan and Profile (1 of 3)	HB+D-CIV-CIV-OND-0023	AB1	May 11, 2012	2011 As-built	Rev. AB, Dec. 16, 2011	Rev. 4, Mar. 26, 2010	Rev. 3, Mar. 9, 2010	Rev. 2, Oct. 7, 2008	Rev. 1, Sept. 26, 2008	Rev. 0, Sept. 5, 2008
R-03	Road Alignment Plan and Profile (2 of 3)	HB+D-CIV-CIV-OND-0024	AB1	May 11, 2012	2011 As-built	Rev. AB, Dec. 16, 2011	Rev. 4, Mar. 26, 2010	Rev. 3, Mar. 9, 2010	Rev. 2, Oct. 7, 2008	Rev. 1, Sept. 26, 2008	Rev. 0, Sept. 5, 2008
R-04	Road Alignment Plan and Profile (3 of 3)	HB+D-CIV-CIV-OND-0025	AB1	May 11, 2012	2011 As-built	Rev. AB, Dec. 16, 2011	Rev. 4, Mar. 26, 2010	Rev. 3, Mar. 9, 2010	Rev. 2, Oct. 7, 2008	Rev. 1, Sept. 26, 2008	Rev. 0, Sept. 5, 2008
R-05	Road Plan and Sections	HB+D-CIV-CIV-OND-0026	4	Mar. 26, 2010	IFC-Fill Thickness Modified	Rev. 3, Mar. 9, 2010	Rev. 2, Oct. 7, 2008	Rev. 1, Sept. 26, 2008	Rev. 0, Sept. 5, 2008	Rev. A, Aug. 15, 2008	
R-06	Animal Crossings Plan and Sections	HB+D-CIV-CIV-OND-0027	4	Mar. 26, 2010	IFC-Fill Thickness Modified	Rev. 3, Mar. 9, 2010	Rev. 2, Oct. 7, 2008	Rev. 1, Sept. 26, 2008	Rev. 0, Sept. 5, 2008	Rev. A, Aug. 15, 2008	
R-07	Typical Arch Culvert Details	HB+D-CIV-CIV-OND-0028	4	Apr. 1, 2010	IFC-Fill Thickness Modified	Rev. 3, Feb. 10, 2010	Rev. 2, Oct. 7, 2008	Rev. 1, Sept. 26, 2008	Rev. 0, Sept. 5, 2008	Rev. A, Aug. 15, 2008	
R-08	Material Specification	HB+D-CIV-CIV-OND-0029	4	Mar. 26, 2010	IFC-Fill Thickness Modified	Rev. 3, Mar. 9, 2010	Rev. 2, Oct. 7, 2008	Rev. 1, Sept. 26, 2008	Rev. 0, Sept. 5, 2008	Rev. A, Aug. 15, 2008	
R-09	Arch Culvert #1	HB+D-CIV-CIV-OND-0001	AB	Dec. 16, 2011	2010 As-built	Rev. 0, Apr. 8, 2010	Rev. A, Feb. 10, 2010				
R-10	Arch Culvert #2 and #3 Road Realignment	HB+D-CIV-CIV-OND-0002	0	Apr. 8, 2010	Issued for Construction						
R-11	Arch Culvert #2	HB+D-CIV-CIV-OND-0003	0	Apr. 8, 2010	Issued for Construction						
R-12	Arch Culvert #3	HB+D-CIV-CIV-OND-0004	0	Apr. 8, 2010	Issued for Construction						
R-13	Arch Culvert #4	HB+D-CIV-CIV-OND-0005	0	Apr. 8, 2010	Issued for Construction						
R-14	Doris to Windy Road All-Weather Road Bridges 2 & 3	HB+D-CIV-CIV-OND-0006	AB	May 11, 2012	2011 As-built	Rev. 0, Jul. 26, 2010					
R-15	Doris to Windy Road All-Weather Road Bridge 4	HB+D-CIV-CIV-OND-0007	AB	May 11, 2012	2011 As-built	Rev. 0, Jul. 26, 2010					
R-16	Doris to Windy Road Bridge Sections and Details	HB+D-CIV-CIV-OND-0008	0	Jul. 26, 2010	Issued for Construction						
R-17	Typical Thermistor Installation Layout and Design	HB+D-CIV-CIV-OND-0090	0	Jul. 26, 2010	Issued for Construction						

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PROJECT NO: 1CH008.033/.058
2011 As-built Package
Revision AB1
May 11, 2012
Drawing R-00 / HB+D-CIV-CIV-OND-0021

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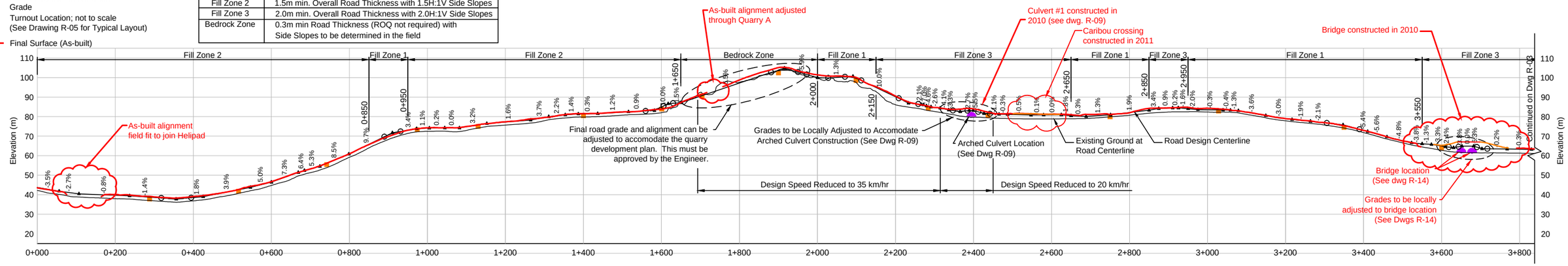
PROFILE LEGEND

- Start/End of Vertical and Horizontal Curves
- Point of Vertical Intersection
- 6.1% Grade
- Turnout Location; not to scale (See Drawing R-05 for Typical Layout)
- Final Surface (As-built)

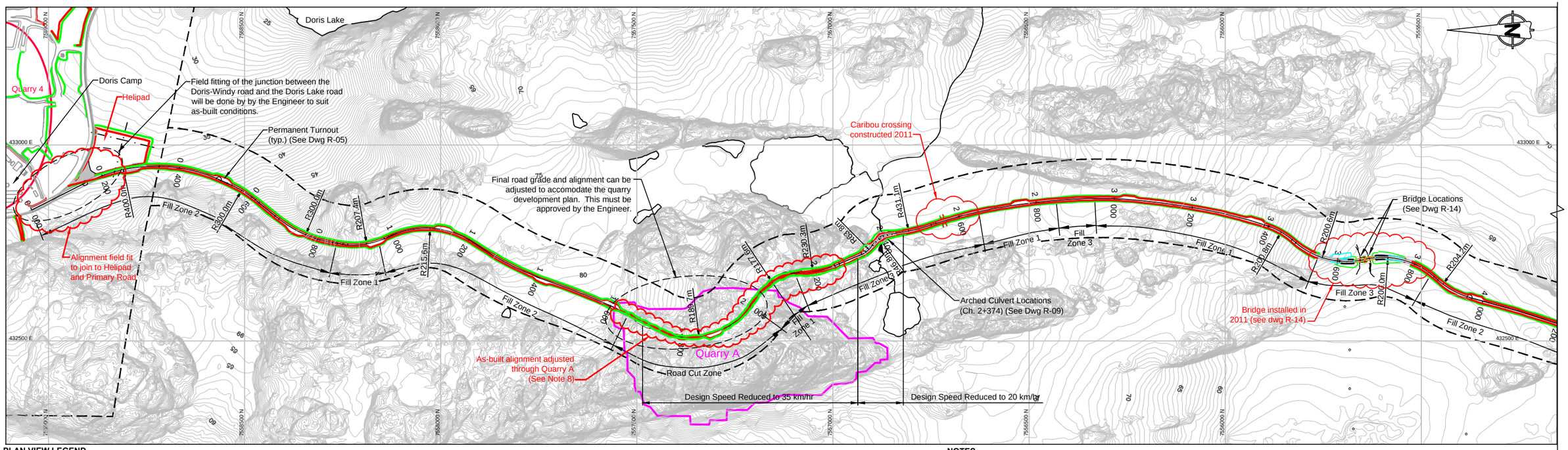
Road Construction Zones Table (See Dwg R-05):

Fill Zone 1	1.0m min. Overall Road Thickness with 1.5H:1V Side Slopes
Fill Zone 2	1.5m min. Overall Road Thickness with 1.5H:1V Side Slopes
Fill Zone 3	2.0m min. Overall Road Thickness with 2.0H:1V Side Slopes
Bedrock Zone	0.3m min Road Thickness (ROQ not required) with Side Slopes to be determined in the field



Doris-Windy Road Profile (Centerline)

0 50 100 150 200 250
Horizontal Scale in Metres
Vertical Exaggeration 5X



Doris-Windy Road Plan View

0 50 100 150 200 250
Scale in Metres

PLAN VIEW LEGEND

- Proposed Development Quarry
- Existing Approved and Permitted Quarry
- Drillhole Location
- Drillhole Location (No Casing)
- Drillhole Casing and Anchor Location
- Permafrost Degredation Location
- Route Centerline
- Arched Culvert
- Existing Roads and Infrastructure
- Toe of Fill / Cut Daylighting
- Centerline of Road
- Crest of Road
- Ponds, Lakes or Permanent Water Bodies
- Lease Boundary
- Lease Boundary
- As-built Toe of Road
- As-built Crest of Road

NOTES

1. All dimensions in metres unless noted otherwise.
2. During the first freshet following construction, sediment control may be required at some road sections to trap fine grained sediment released from road construction material. This will be accomplished by best practices for sediment source control and by installing silt fences in the areas of concern. It is the responsibility of the EPCM Team to implement appropriate measures.
3. Traffic signs, kilometre markers, and reflective markers shall be installed as required according to the HBML Health and Safety Manual and all relevant rules and regulations. The EPCM Team will be responsible for this.
4. An operational procedure for use of the road is required according to the HBML Health and Safety Manual and all relevant rules and regulation.
5. Prior to fill placement snow must be cleared.
6. Under no circumstances may the tundra be damaged. Excavation into the permafrost soils is strictly forbidden. Should inadvertent damage occur the Engineer must be immediately informed and construction ceased over the affected area.
7. Notes in this drawing apply to all other active drawings.
8. Road toe as-built lines through Quarry A interpreted from OG & available crest survey data.

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
R-09	Arch Culvert #1		
R-08	Material Specification		
R-07	Typical Arch Culvert Details		
R-06	Animal Crossings Plan and Sections		
R-05	Road Plan and Sections	R-13	Arch Culvert #4
R-04	Road Alignment Plan and Profile (3 of 3)	R-12	Arch Culvert #3
R-03	Road Alignment Plan and Profile (2 of 3)	R-11	Arch Culvert #2
R-01	General Arrangement Doris-Windy All-Weather Acc~	R-10	Arch Culvert #2 and #3 Road Realignment

REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
AB1	2011 As-built	JBK	EMR	11May12
AB	2010 As-built	JBK	EMR	16Dec11
4	IFC-Fill Thickness Modified	LW	EMR	26Mar10
3	IFC-Revised Archeological Sites	LW	EMR	9Mar10
2	Issued for Construction	LW	EMR	7Oct08
1	IFC-Revised Alignment/Profile	LW	MR	26Sep08
0	Issued for Construction	LW	MR	5Sep08
A	Issued for Approval	LW	EMR	15Aug08

REVISIONS

PROFESSIONAL ENGINEERS STAMP

srk consulting

DESIGN: LW	DRAWN: NV	REVIEWED: EMR
CHECKED: LW/EMR	APPROVED: EMR	DATE: MAY 11, 2012

FILE NAME: 1CH008_007-400-4-2.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LTD.

SRK JOB NO.: 1CH008.027/033/058

Doris-Windy All-Weather Access Road

DRAWING TITLE: Road Alignment Plan and Profile (1 of 3)

DRAWING NO. R-02 | SHEET 2 OF 13 | REVISION NO. AB1

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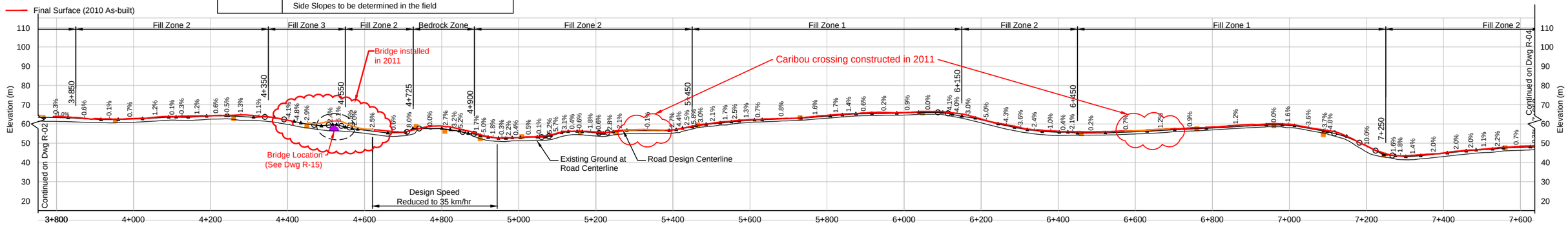
PROFILE LEGEND

- Start/End of Vertical and Horizontal Curves
- Point of Vertical Intersection
- 6.1% Grade
- Turnout Location; not to scale (See Drawing R-05 for Typical Layout)
- Final Surface (2010 As-built)

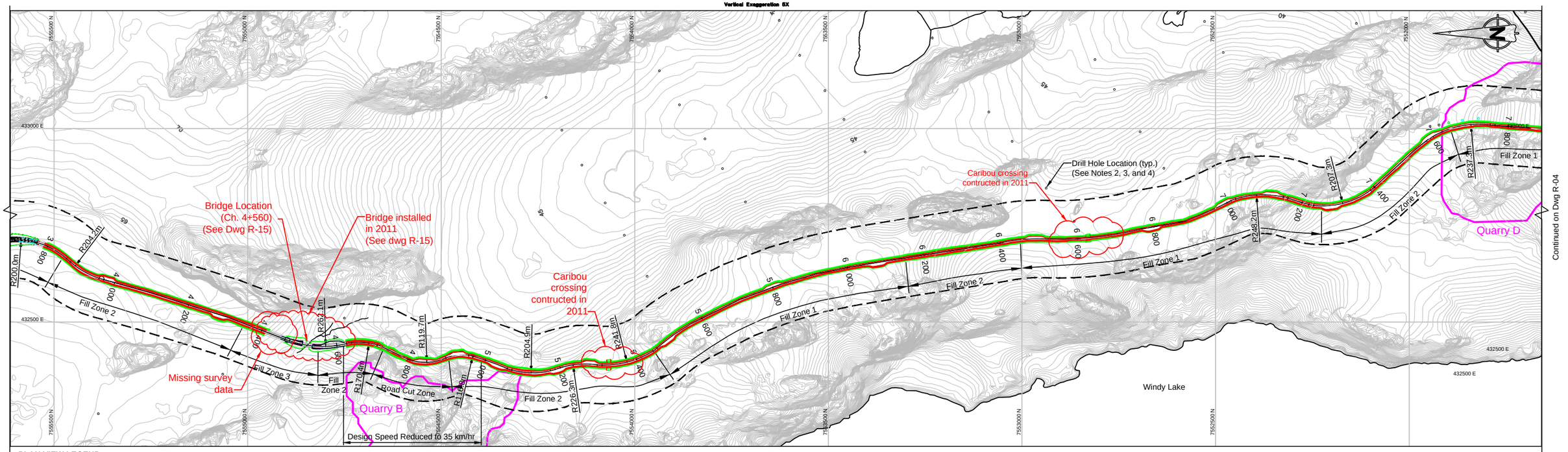
Road Construction Zones Table (See Dwg R-05):

Fill Zone 1	1.0m min. Overall Road Thickness with 1.5H:1V Side Slopes
Fill Zone 2	1.5m min. Overall Road Thickness with 1.5H:1V Side Slopes
Fill Zone 3	2.0m min. Overall Road Thickness with 2.0H:1V Side Slopes
Bedrock Zone	0.3m min Road Thickness (ROQ not required) with Side Slopes to be determined in the field



Doris-Windy Road Profile

0 50 100 150 200 250
Horizontal Scale in Metres
Vertical Exaggeration 5X



Doris-Windy Road Plan View

0 50 100 150 200 250
Scale in Metres

PLAN VIEW LEGEND

- Proposed Development Quarry
- Existing Approved and Permitted Quarry
- Drillhole Location
- Drillhole Location (No Casing)
- Permafrost Degredation Location
- Drillhole Casing and Anchor Location
- Route Centerline
- Arched Culvert
- Existing Roads and Infrastructure
- Toe of Fill / Cut Daylighting
- Centerline of Road
- Crest of Road
- Ponds, Lakes or Permanent Water Bodies
- Lease Boundary
- As-built Toe of Road
- As-built Crest of Road

NOTES

1. All dimensions in metres unless noted otherwise.
2. Construction hazards are present where drill hole locations are in proximity of the road alignment. Drill steel extends above ground.
3. Steel drill collars located within the construction area shall be cut to original ground surface prior to proceeding with road construction activities.
4. The Engineer will evaluate the drill sites that fall within the construction area and may instruct additional cover material be placed to mitigate damage to the tundra. Additional snow clearing, including manual methods may be required in these cases.
5. Notes in this drawing apply to all other active drawings.

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
R-09	Arch Culvert #1		
R-08	Material Specification		
R-07	Typical Arch Culvert Details		
R-06	Animal Crossings Plan and Sections		
R-05	Road Plan and Sections	R-13	Arch Culvert #4
R-04	Road Alignment Plan and Profile (3 of 3)	R-12	Arch Culvert #3
R-02	Road Alignment Plan and Profile (1 of 3)	R-11	Arch Culvert #2
R-01	General Arrangement Doris-Windy All-Weather Acc~	R-10	Arch Culvert #2 and #3 Road Realignment

REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
AB1	2011 As-built	JBK	EMR	11May12
AB	2010 As-built	JBK	EMR	16Dec11
4	IFC-Fill Thickness Modified	LW	EMR	26Mar10
3	IFC-Revised Archeological Sites	LW	EMR	9Mar10
2	Issued for Construction	LW	EMR	70ct08
1	IFC-Revised Alignment/Profile	LW	EMR	26Sep08
0	Issued for Construction	LW	EMR	5Sep08
A	Issued for Approval	LW	EMR	15Aug08

REVISIONS

PROFESSIONAL ENGINEERS STAMP

srk consulting

DESIGN: LW	DRAWN: NV	REVIEWED: EMR
CHECKED: LW/EMR	APPROVED: EMR	DATE: MAY 11, 2012
FILE NAME: 1CH008_007-400-4-2.dwg		

NEWMONT NORTH AMERICA

HOPE BAY MINING LTD.

SRK JOB NO.: 1CH008.027/033/058

Doris-Windy All-Weather Access Road

DRAWING TITLE: Road Alignment Plan and Profile (2 of 3)

DRAWING NO. R-03 | SHEET 3 OF 13 | REVISION NO. AB1

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PROFILE LEGEND

- Start/End of Vertical and Horizontal Curves
- Point of Vertical Intersection
- 6.1% Grade
- Turnout Location; not to scale (See Drawing R-05 for Typical Layout)
- Final Surface (2010 As-built)

Road Construction Zones Table (See Dwg R-05):

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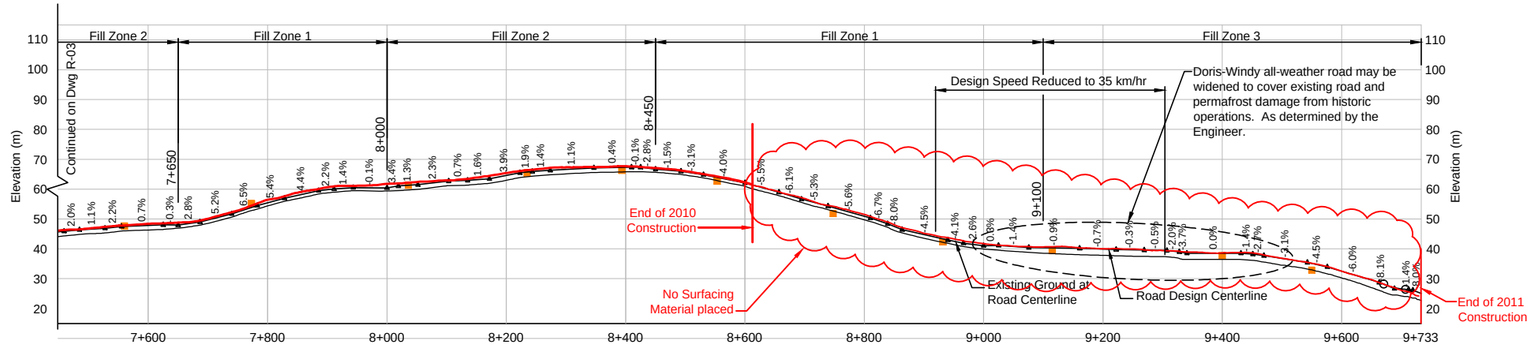
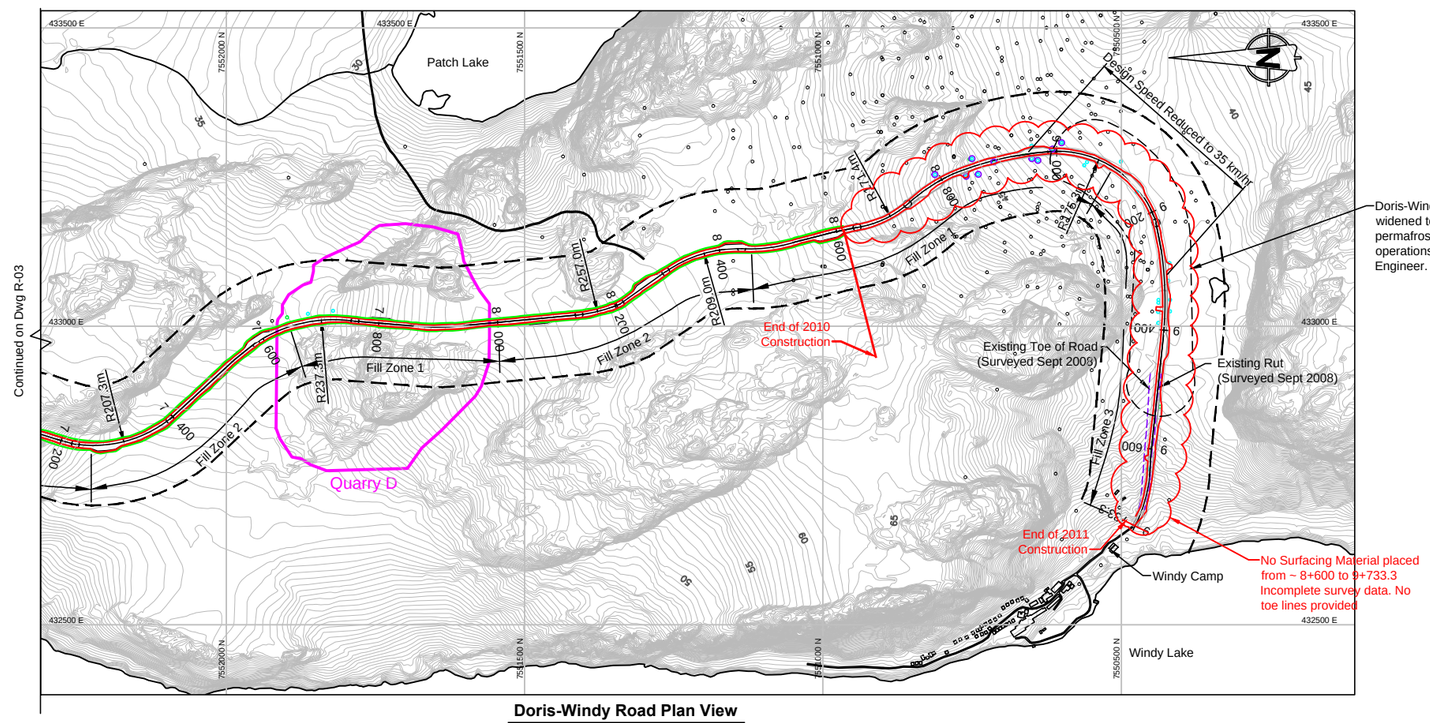


Doris-Windy Road Profile

0 50 100 150 200 250
Horizontal Scale in Metres
Vertical Exaggeration 5X



Doris-Windy Road Plan View

0 50 100 150 200 250
Scale in Metres

NOTES

1. All dimensions in metres unless noted otherwise.
2. Discussion between EPCM Team, Engineer, and Contractor will determine an appropriate termination of the Doris-Windy Road.
3. Notes in this drawing apply to all other active drawings.

PLAN VIEW LEGEND

- Proposed Development Quarry
- Existing Approved and Permitted Quarry
- Drillhole Location
- Drillhole Location (No Casing)
- Drillhole Casing and Anchor Location
- Permafrost Degredation Location
- As-built Toe of Road
- As-built Crest of Road
- Route Centerline
- Arched Culvert
- Existing Roads and Infrastructure
- Toe of Fill / Cut Daylighting
- Centerline of Road
- Crest of Road
- Ponds, Lakes or Permanent Water Bodies
- Lease Boundary

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
R-09	Arch Culvert #1		
R-08	Material Specification		
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R-01	General Arrangement Doris-Windy All-Weather Acc~	R-10	Arch Culvert #2 and #3 Road Realignment

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NO.	DESCRIPTION	CHK'D	APP'D	DATE
AB1	2010 As-built	JBK	EMR	11May12
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2	Issued for Construction	LW	EMR	7Oct08
1	IFC-Revised Alignment/Profile	LW	MR	26Sep08
0	Issued for Construction	LW	MR	5Sep08
A	Issued for Approval	LW	EMR	15Aug08

REVISIONS

PROFESSIONAL ENGINEERS STAMP

srk consulting

DESIGN: LW	DRAWN: NV	REVIEWED: EMR
CHECKED: LW/EMR	APPROVED: EMR	DATE: MAY 11, 2012

FILE NAME: 1CH008_007-400-4-2.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LTD.

SRK JOB NO.: 1CH008.027/033/058

Doris-Windy All-Weather Access Road

DRAWING TITLE: Road Alignment Plan and Profile (3 of 3)

DRAWING NO. R-04 | SHEET 4 OF 13 | REVISION NO. AB1

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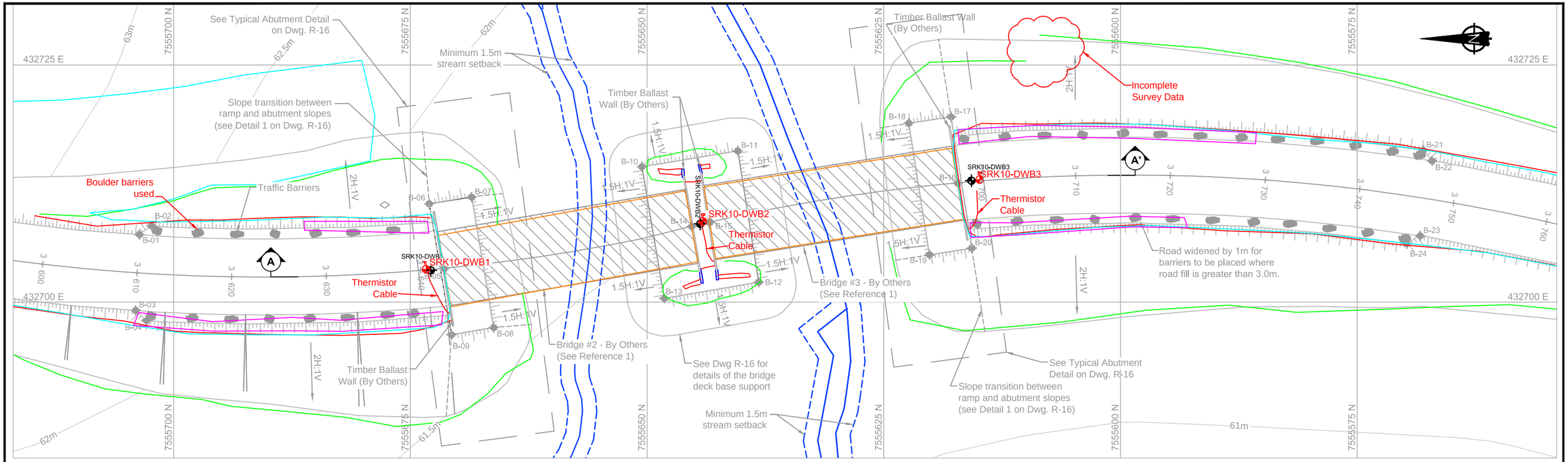
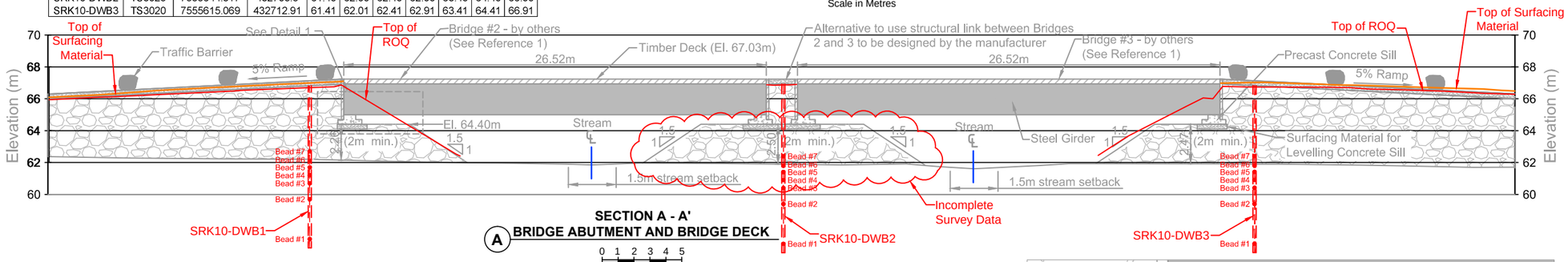


PLAN VIEW
DORIS-WINDY ROAD BRIDGE 2 & 3

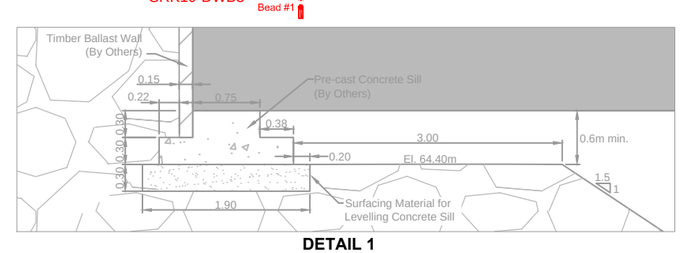
0 2 4 6 8 10
Scale in Metres

Thermistor ID	Serial Number	Northing	Easting	Bead Elevation (m) #1	#2	#3	#4	#5	#6	#7
SRK10-DWB1	TS3021	7555673.554	432703.47	61.70	62.30	62.70	63.20	63.70	64.70	67.20
SRK10-DWB2	TS3025	7555644.317	432708.5	61.40	62.00	62.40	62.90	63.40	64.40	66.90
SRK10-DWB3	TS3020	7555615.069	432712.91	61.41	62.01	62.41	62.91	63.41	64.41	66.91



SECTION A - A'
A BRIDGE ABUTMENT AND BRIDGE DECK

0 1 2 3 4 5
Scale in Metres



DETAIL 1
1 BRIDGE DECK BASE SUPPORT

0 0.2 0.4 0.6 0.8 1
Scale in Metres

Stakeout Table

Point #	Easting	Northing	Elevation
B-01	432,707.12	7,555,703.62	65.61
B-02	432,708.03	7,555,702.33	65.67
B-03	432,699.13	7,555,704.01	65.61
B-04	432,698.05	7,555,702.86	65.68
B-05	432,703.53	7,555,671.43	67.03
B-06	432,710.37	7,555,673.00	64.40
B-07	432,711.06	7,555,668.53	64.40
B-08	432,697.32	7,555,666.20	64.40
B-09	432,696.56	7,555,670.66	64.40
B-10	432,714.27	7,555,650.54	64.40
B-11	432,715.94	7,555,640.41	64.40
B-12	432,702.10	7,555,638.21	64.40
B-13	432,700.39	7,555,648.18	64.40
B-14	432,707.97	7,555,645.29	67.03
B-15	432,708.39	7,555,643.38	67.03
B-16	432,712.54	7,555,617.19	67.03
B-17	432,718.87	7,555,622.36	64.40
B-18	432,719.52	7,555,617.89	64.40
B-19	432,705.69	7,555,615.70	64.40
B-20	432,704.98	7,555,620.17	64.40
B-21	432,716.00	7,555,568.02	64.80
B-22	432,714.88	7,555,567.08	64.75
B-23	432,706.98	7,555,568.34	64.75
B-24	432,706.16	7,555,569.74	64.83

REFERENCE

1. Rapid Span Bridges Inc., 2010
   Hope Bay Project Resource Bridges 4780, 4781, 4782.
   Revision 0, May 17, 2010

LEGEND

- Route Centerline (Design)
- Toe of Fill / Cut Daylighting
- Centerline of Road
- Crest of Road
- Creek
- B-01 Bridge Stakeout Point
- Thermistor
- Boulder
- Run of Quarry
- Surfacing Material
- Timber
- Concrete
- Steel
- Crest (2011 As-built)
- Toe (2011 As-built)
- Barrier (2011 As-built)
- Edge of Crush (2011 As-built)
- Thermistor (2011 As-built)

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE

REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
AB	2011 As-built	JBK	EMR	11May12
0	Issued for Construction	PM	EMR	26July10
A	Issued for Comment	PM	EMR	27May10

REVISIONS

PROFESSIONAL ENGINEERS STAMP

srk consulting

DESIGN: PM	DRAWN: NV	REVIEWED: LW
CHECKED: PM/JBK	APPROVED: EMR	DATE: May 11, 2012

FILE NAME: Bridge Abutments C3D revAB.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LTD

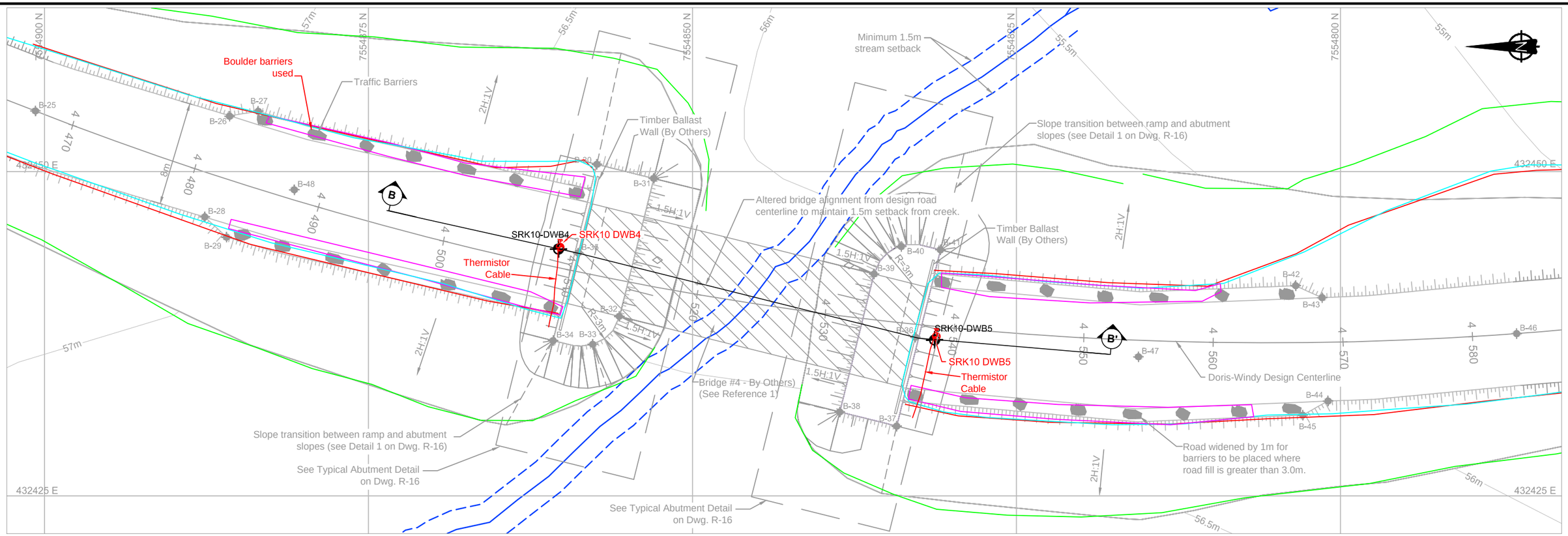
SRK JOB NO.: 1CH008.027/058 SRK DWG NO.: R-14

Doris North Project

DRAWING TITLE:
Doris to Windy All-Weather Road
Bridge 2 & 3

NEWMONT DRAWING NO. HB+D-CIV-CIV-OND-0006 | SHEET 14 of 17 | REVISION NO. AB

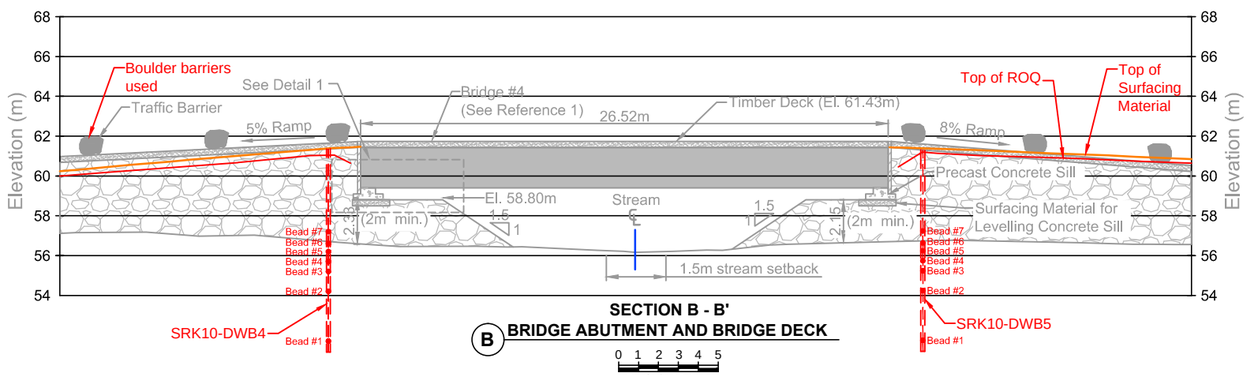
J:\01_SITES\HopeBay\1ACAD\2011 Drawings\Doris-Windy All-Weather Road\As-built\Drawings\Bridge Abutments C3D revAB.dwg



PLAN VIEW
DORIS-WINDY ROAD BRIDGE 4

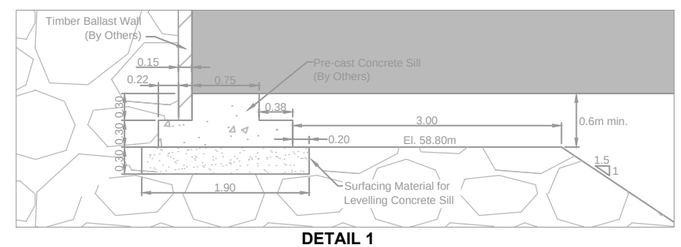
0 1 2 3 4 5
Scale in Metres

Thermistor ID	Serial Number	Northing	Easting	Bead Elevation (m) #1	#2	#3	#4	#5	#6	#7
SRK10-DWB4	TS3024	7554860.364	432444.18	51.70	54.20	55.20	55.70	56.20	56.60	57.20
SRK10-DWB5	TS3023	7554831.329	432437.29	51.74	54.24	55.24	55.74	56.24	56.64	57.24



SECTION B - B'
BRIDGE ABUTMENT AND BRIDGE DECK

0 1 2 3 4 5
Scale in Metres



DETAIL 1
BRIDGE DECK BASE SUPPORT

0 0.2 0.4 0.6 0.8 1
Scale in Metres

Bridge Pad and Ramp Stakeout Table:

Point #	Easting	Northing	Elevation
B-25	432,454.68	7,554,900.70	59.56
B-26	432,454.28	7,554,885.71	60.29
B-27	432,454.66	7,554,883.51	60.39
B-28	432,446.51	7,554,887.63	60.30
B-29	432,444.95	7,554,885.95	60.40
B-30	432,450.57	7,554,857.37	58.80
B-31	432,449.47	7,554,852.98	58.80
B-32	432,438.84	7,554,855.65	58.80
B-33	432,436.70	7,554,857.69	58.80
B-34	432,436.98	7,554,860.74	58.80
B-35	432,443.73	7,554,858.81	61.43
B-36	432,437.24	7,554,832.79	61.43
B-37	432,430.39	7,554,834.24	58.80
B-38	432,431.48	7,554,838.63	58.80
B-39	432,442.11	7,554,835.98	58.80
B-40	432,444.24	7,554,833.88	58.80
B-41	432,443.97	7,554,830.86	58.80
B-42	432,441.21	7,554,803.45	59.35
B-43	432,440.28	7,554,801.41	59.18
B-44	432,432.32	7,554,800.96	59.18
B-45	432,431.23	7,554,802.90	59.34
B-46	432,437.51	7,554,786.40	58.00
B-47	432,435.72	7,554,815.58	60.33
B-48	432,448.60	7,554,880.72	60.60

LEGEND

- Route Centerline (Design)
- Toe of Fill / Cut Daylighting
- Centerline of Road
- Crest of Road
- Creek
- Bridge Stakeout Point
- Thermistor
- Boulder
- Run of Quarry
- Surfacing Material
- Timber
- Concrete
- Steel
- Crest (2011 As-built)
- Toe (2011 As-built)
- Barrier (2011 As-built)
- Edge of Crush (2011 As-built)
- Thermistor (2011 As-built)

REFERENCE

1. Rapid Span Bridges Inc., 2010
   Hope Bay Project Resource Bridges 4780, 4781, 4782.
   Revision 0, May 17, 2010

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
REFERENCE DRAWINGS			

NO.	DESCRIPTION	CHK'D	APP'D	DATE
AB	2011 As-built	JBK	EMR	11May12
0	Issued for Construction	PM	EMR	26July10
A	Issued for Comment	PM	EMR	27May10

REVISIONS

PROFESSIONAL ENGINEERS STAMP

srk consulting

DESIGN: PM	DRAWN: NV	REVIEWED: LW
CHECKED: PM/JBK	APPROVED: EMR	DATE: May 11, 2012

FILE NAME: Bridge Abutments C3D revAB.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LTD

SRK JOB NO.: 1CH008.027/058 SRK DWG NO.: R-15

Doris North Project

DRAWING TITLE:
Doris to Windy All-Weather Road
Bridge 4

NEWMONT DRAWING NO. HB+D-CIV-CIV-OND-0007 | SHEET 15 of 17 | REVISION NO. AB

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Engineering Drawings for the Doris North Secondary Road, Doris North Project, Nunavut, Canada

ACTIVE DRAWING STATUS

DWG NUMBER	NEWMONT DWG NUMBER	DRAWING TITLE	REVISION	DATE	STATUS	OLD/REPLACED REVISIONS		
TL-RDS-00	HB+T-CIV-CIV-OND-0001	Engineering Drawings for the Doris North Secondary Road	AB	May 14, 2012	As-built	Rev. 6, Dec. 9, 2011	Rev. 5, Dec. 1, 2011	Rev. 4, Nov.22, 2011
TL-RDS-01	HB+T-CIV-CIV-OND-0002	General Arrangement of Secondary Road	1	Nov. 9, 2011	Revised Road Alignment	Rev. 0, June 2, 2010	Rev. A, Feb. 22, 2010	
TL-RDS-02	HB+T-CIV-CIV-OND-0003	Secondary Road from Doris North Camp to Doris Creek Bridge	AB	May 14, 2012	As-built	Rev. 2, Sept. 24, 2010	Rev. 1, Sept 17, 2010	Rev. 0, June 2, 2010
TL-RDS-03	HB+T-CIV-CIV-OND-0004	Main Vent Raise Pad, Secondary Vent Raise Pad and Access Road	1	Sept 17, 2010	Updated Topography	Rev. 0, June 2, 2010	Rev. A, Feb. 22, 2010	
TL-RDS-04	HB+T-CIV-CIV-OND-0005	Secondary Road from Doris Creek Bridge to South Dam 0+000 to 0+950	AB	May 14, 2012	As-built	Rev. 2, Nov. 9, 2011	Rev. 1, Sept 24, 2010	Rev. 0, June 2, 2010
TL-RDS-05	HB+T-CIV-CIV-OND-0006	Secondary Road from Doris Creek Bridge to South Dam 0+950 to 1+900	1	Nov. 9, 2011	Revised Road Alignment	Rev. 0, June 2, 2010	Rev. A, Feb. 22, 2010	
TL-RDS-06	HB+T-CIV-CIV-OND-0007	Secondary Road from Doris Creek Bridge to South Dam 1+900 to 2+850	1	Nov. 9, 2011	Revised Road Alignment	Rev. 0, June 2, 2010	Rev. A, Feb. 22, 2010	
TL-RDS-07	HB+T-CIV-CIV-OND-0008	Secondary Road from Doris Creek Bridge to South Dam 2+850 to 3+750	1	Nov. 9, 2011	Revised Road Alignment	Rev. 0, June 2, 2010	Rev. A, Feb. 22, 2010	
TL-RDS-08	HB+T-CIV-CIV-OND-0009	Secondary Road Details	0	June 2, 2010	Issued for Construction	Rev. A, Feb. 22, 2010		
TL-RDS-09	HB+T-CIV-CIV-OND-0010	Secondary Road from Doris Creek Bridge to South Dam 3+750 to 4+623	1	Nov. 9, 2011	Revised Road Alignment	Rev. 0, June 2, 2010	Rev. A, Feb. 22, 2010	
TL-RDS-10	HB+T-CIV-CIV-OND-0011	Quarry 3 Access Road	2	Nov. 22, 2011	Added Overburden Storage	Rev. 1, Nov. 9, 2011	Rev. 0, June 2, 2010	Rev. A, Feb. 22, 2010
TL-RDS-11	HB+T-CIV-CIV-OND-0012	Material Specifications	3	Nov. 9, 2011	Updated Stake Out Points	Rev. 2, Oct. 6, 2010	Rev. 1, Sept 24, 2010	Rev. 0, June 2, 2010
TL-RDS-12	HB+T-CIV-CIV-OND-0013	Doris Creek Bridge Plan View	AB	May 14, 2012	As-built	Rev. 2, Oct. 6, 2010	Rev. 1, Sept 24, 2010	Rev. 0, July 26, 2010
TL-RDS-13	HB+T-CIV-CIV-OND-0014	Doris Creek Bridge Sections and Details	2	Oct. 6, 2010	Bridge Adjusted to New Survey	Rev. 1, Sept. 24, 2010	Rev. 0, July 26, 2010	Rev. A, May 21, 2010
TL-RDS-14	HB+T-CIV-CIV-OND-0015	Typical Thermistor Installation Layout and Design	1	Oct. 6, 2010	Bridge Adjusted to New Survey	Rev. 0, July 26, 2010	Rev. A, May 21, 2010	
TL-RDS-15	HB+T-CIV-CIV-OND-0054	Tail Lake Access Road	0	Nov. 9, 2011	Issued for Construction			
TL-RDS-16	HB+T-CIV-CIV-OND-0060	Secondary Road Buttress	0	Dec. 9, 2011	Issued for Construction	Rev. A, Dec. 1, 2011		

HOPE BAY MINING LTD.

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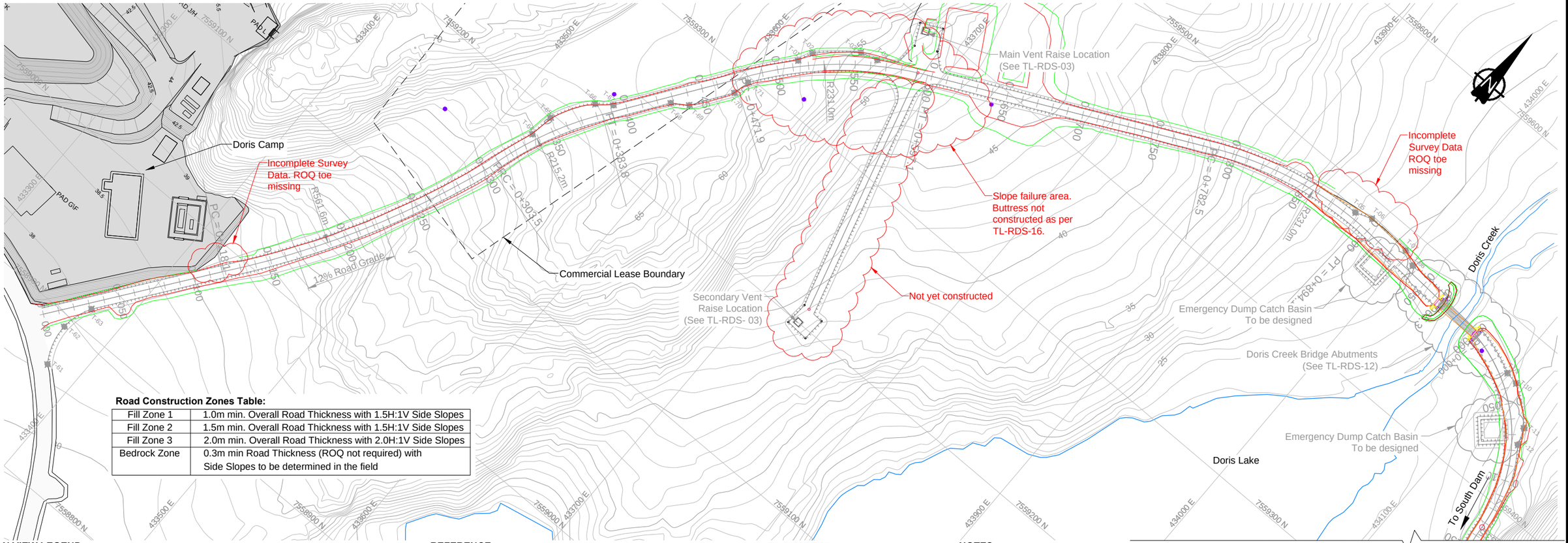
PROJECT NO: 1CH008.033/058
2011 As-built
Revision AB,
May 14, 2012
TL-RDS-00 / HB+T-CIV-CIV-OND-0001



Continued on Dwg TL-RDS-04

Road Construction Zones Table:

Fill Zone 1	1.0m min. Overall Road Thickness with 1.5H:1V Side Slopes
Fill Zone 2	1.5m min. Overall Road Thickness with 1.5H:1V Side Slopes
Fill Zone 3	2.0m min. Overall Road Thickness with 2.0H:1V Side Slopes
Bedrock Zone	0.3m min Road Thickness (ROQ not required) with Side Slopes to be determined in the field

PLAN VIEW LEGEND

- Route Centerline with Chainage Marker
- Point of Curve/Tangent
  - PC - curve segment ;
  - PRC - intersection of two curves;
  - PT - straight line segment
- Toe of Fill / Cut Daylighting
- Centerline of Road
- Crest of Road
- Ponds, Lakes or Permanent Water Bodies
- Commercial Lease Boundary
- Archeological Sites with min. 30m Buffer
- Drillhole Location
- Turnout Stakeout Point
- As-built Crest
- As-built Toe

REFERENCE

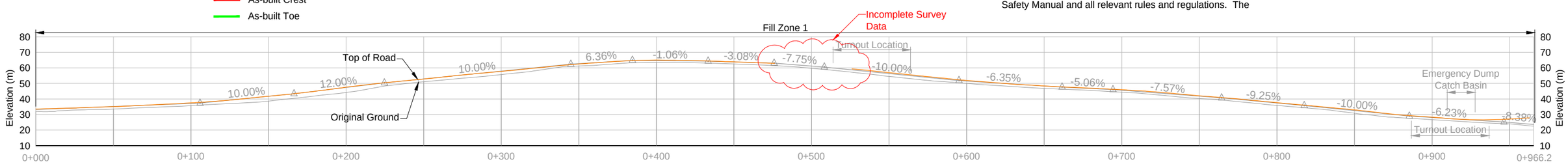
1. For a detailed drillhole layout refer to Drawing G-04, Revision C, SRK 2008, Engineering Drawings for Tailings Containment Area and Surface Infrastructure Components, Doris North Project, Nunavut, Canada, Drawings Issued for Construction, Revision E, Project No. 1CM014.011, April 2008.

PLAN VIEW
DORIS CAMP TO DORIS CREEK BRIDGE

0 20 40 60 80 100
Scale in Metres

NOTES

1. All dimensions in metres unless noted otherwise.
2. During the first freshet following construction, sediment control may be required at some road sections to trap fine grained sediment released from road construction material. This will be accomplished by best practices for sediment source control and by installing silt fences in the areas of concern. It is the responsibility of the Construction Manager to implement appropriate measures.
3. Traffic signs, kilometre markers, and reflective markers shall be installed as required according to the HBML Health and Safety Manual and all relevant rules and regulations. The Construction Manager will be responsible for this.
4. An operational procedure for use of the road is required according to the HBML Health and Safety Manual and all relevant rules and regulation.
5. Excavation into the permafrost soils is strictly forbidden. Should inadvertent damage occur the Engineer must be immediately informed and construction ceased over the affected area.
5. Contours shown based on aerial photography.
6. Notes in this drawing apply to all other active drawings.



PROFILE LEGEND

- Point of Vertical Intersection
- 6.1% Grade

PROFILE
DORIS CAMP TO BRIDGE

0 20 40 60 80 100
Scale in Metres

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE

REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
AB	As-built	MMM	EMR	14May12
2	Additional Turnouts	LW	EMR	24Sept10
1	Updated Topography	LW	EMR	17Sept10
0	Issued for Construction	LW	EMR	2June10
A	Issued for Comment	LW	EMR	22Feb10

REVISIONS

PROFESSIONAL ENGINEER'S STAMP

srk consulting

DESIGN: LW | DRAWN: NV | REVIEWED: LW
CHECKED: LW/MMM | APPROVED: EMR | DATE: May 14, 2012
FILE NAME: Secondary Road RevAB.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LTD.

SRK JOB NO.: 1CH008.027/058 | SRK DWG NO.: TL-RDS-02

Doris North Project

DRAWING TITLE: Secondary Road from Doris North Camp to Doris Creek Bridge

NEWMONT DRAWING NO. HB+T-CIV-CIV-OND-0003 | SHEET 2 of 14 | REVISION NO. AB

J:\01_SITES\Hope Bay\ACAD\2011 Drawings\Secondary Road\Drawings\Secondary Road RevAB.dwg

Road Construction Zones Table:

Fill Zone 1	1.0m min. Overall Road Thickness with 1.5H:1V Side Slopes
Fill Zone 2	1.5m min. Overall Road Thickness with 1.5H:1V Side Slopes
Fill Zone 3	2.0m min. Overall Road Thickness with 2.0H:1V Side Slopes
Bedrock Zone	0.3m min Road Thickness (ROQ not required) with Side Slopes to be determined in the field

PLAN VIEW LEGEND

- Route Centerline with Chainage Marker
- Point of Curve/Tangent
  - PC - curve segment ;
  - PRC - intersection of two curves;
  - PT - straight line segment
- Toe of Fill / Cut Daylighting
- Centerline of Road
- Crest of Road
- Ponds, Lakes or Permanent Water Bodies
- Commercial Lease Boundary
- Drillhole Location
- Turnout Stakeout Point
- As-built Crest
- As-built Toe
- As-built ROQ Breakline

REFERENCE

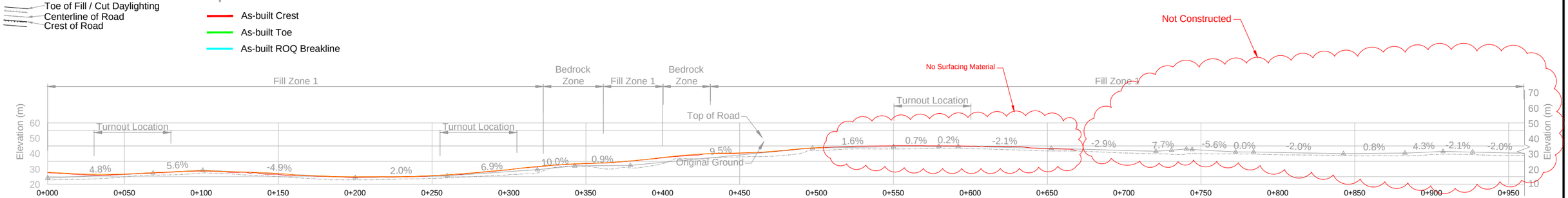
1. For a detailed drillhole layout refer to Drawing G-04, Revision C, SRK 2008, Engineering Drawings for Tailings Containment Area and Surface Infrastructure Components, Doris North Project, Nunavut, Canada, Drawings Issued for Construction, Revision A, C, D, E, Project No. 1CM014.011, April 2008.

PLAN VIEW
DORIS CREEK BRIDGE TO SOUTH DAM

0 20 40 60 80 100
Scale in Metres

NOTES

1. All dimensions in metres unless noted otherwise.
2. Construction hazards are present where drill hole locations are in proximity of the road alignment. Drill steel extends above ground.
3. Steel drill collars located within the construction area shall be cut to original ground surface prior to proceeding with road construction activities.
4. The Engineer will evaluate the drill sites that fall within the construction area and may instruct additional cover material be placed to mitigate damage to the tundra. Additional snow clearing, including manual methods may be required in these cases.
5. Contours shown based on aerial photography.
6. Notes in this drawing apply to all other active drawings.



PROFILE LEGEND

- Point of Vertical Intersection
- 6.1% Grade

PROFILE
0+000 TO 0+950

0 20 40 60 80 100
Scale in Metres

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE

REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
AB	As-built	MMM	EMR	14May12
2	Revised Road Alignment	LW	EMR	9Nov11
1	Add Core Plant/Updated Topo	LW	EMR	24Sep10
0	Issued for Construction	LW	EMR	2June10
A	Issued for Comment	LW	EMR	22Feb10

REVISIONS

This drawing is uncontrolled when printed unless stamped and signed with original ink and recorded on a Distribution Register.

PROFESSIONAL ENGINEER'S STAMP

srk consulting

DESIGN: LW	DRAWN: NV	REVIEWED: LW
CHECKED: LW/MMM	APPROVED: EMR	DATE: May 14, 2012

FILE NAME: 1CH008.003-000-PLN-TLRDS04-RevAB.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LTD.

SRK JOB NO.: 1CH008.033/058 SRK DWG NO.: TL-RDS-04

Doris North Project

DRAWING TITLE:
Secondary Road from Doris Creek Bridge to South Dam 0+000 to 0+950

NEWMONT DRAWING NO. HB+T-CIV-CIV-OND-0005 | SHEET 5 OF 17 | REVISION NO. AB

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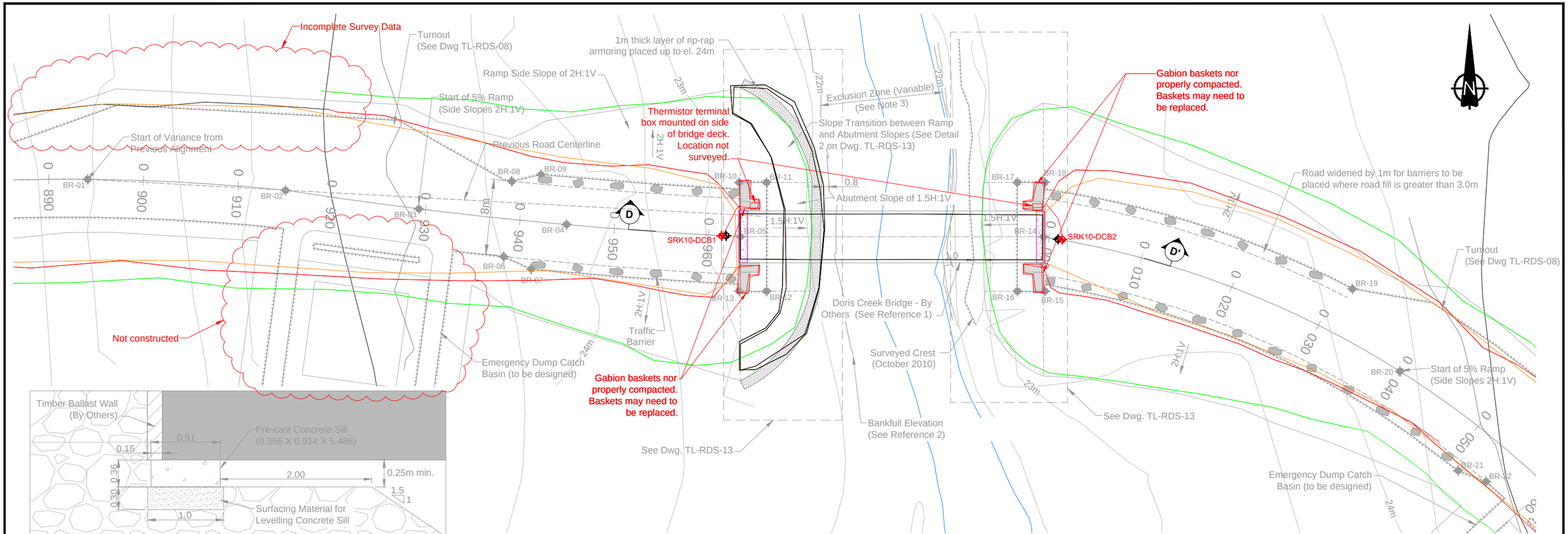


DETAIL 1
BRIDGE DECK BASE SUPPORT
(1)
0 0.2 0.4 0.6 0.8 1
Scale in Metres

PLAN VIEW
DORIS CREEK BRIDGE
0 2 4 6 8 10
Scale in Metres

Thermistor ID	Serial Number	Northing	Easting	Bead Elevation (m) #1	#2	#3	#4	#5	#6	#7
SRK10-DCB1	TS3017	7559475.3	434032.21	21.25	23.75	24.75	25.25	25.75	26.15	26.75
SRK10-DCB2	TS3016	7559474.92	434068.18	22.01	24.51	25.51	26.01	26.51	26.91	27.51

LEGEND

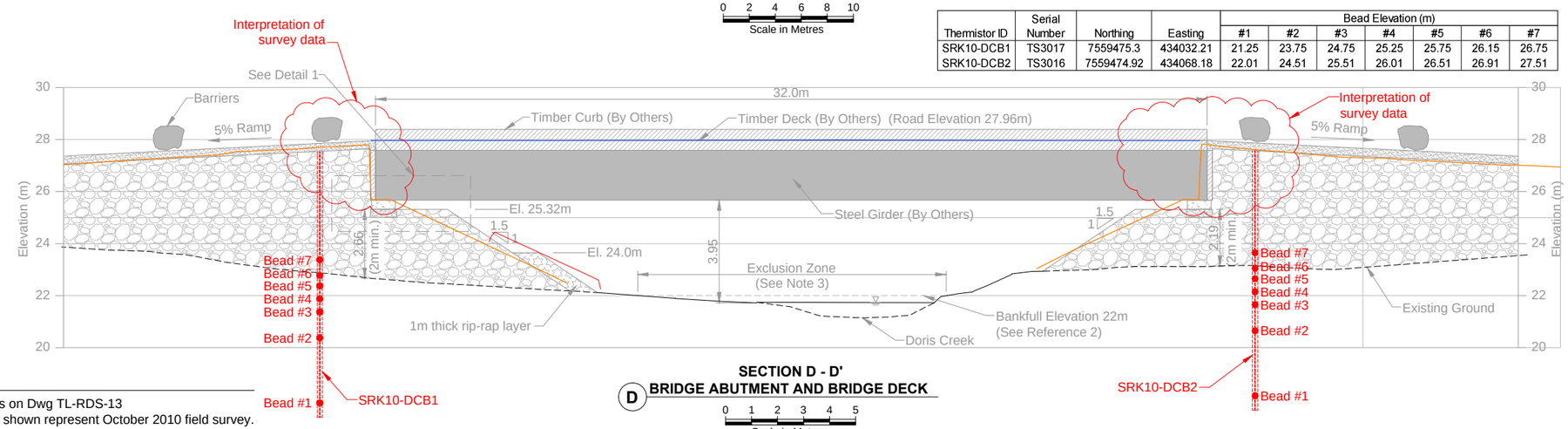
- Route Centerline
- Toe of Fill / Cut Daylighting
- Centerline of Road
- Crest of Road
- Doris Creek
- Abutment Setback Line
- Thermistor (See Dwg. TL-RDS-14)
- Boulder
- Run of Quarry
- Surfacing Material
- Rip-Rap
- Rock Gabion
- Timber
- Concrete
- Steel
- Turnout Stakeout Point
- As-built Crest
- As-built Toe

REFERENCE

1. Rapid Span Bridges Inc. 2007, Miramar Hope Bay Ltd. Doris Creek 32.004 Meter Timber Deck Bridge. Revision 1. June 19, 2007.
2. Golder Associates. 2007, Miramar Doris North, Hydrotechnical assessment of proposed Doris Creek bridge. Project No. 06-1373-06. January 19th, 2007.

NOTES

1. See notes on Dwg TL-RDS-13
2. Contours shown represent October 2010 field survey.
3. Exclusion zone below 22m contour.



SECTION D - D'
BRIDGE ABUTMENT AND BRIDGE DECK
(D)
0 1 2 3 4 5
Scale in Metres

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
–	–		

REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
AB	As-built	MMM	EMR	14May12
2	Bridge Adjusted to New Survey	JK	EMR	6Oct10
1	Bridge Adjusted to New Topo	LW	EMR	24Sep10
0	Issued For Construction	PM	EMR	26July10
A	Issued For Comment	PM	EMR	21May10

REVISIONS

PROFESSIONAL ENGINEERS STAMP

srk consulting

DESIGN: PM	DRAWN: NV	REVIEWED: LW
CHECKED: JK	APPROVED: EMR	DATE: May 14, 2012

FILE NAME: Secondary Road Bridge RevAB.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LTD

SRK JOB NO.: 1CH008.033/058 SRK DWG NO.: TL-RDS-12

Doris North Project

DRAWING TITLE: Doris Creek Bridge Plan View

NEWMONT DRAWING NO. HB+T-CIV-CIV-OND-0013 SHEET 12 of 14 REVISION NO. AB

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Engineering Drawings for the Windy Camp Temporary Diversion Berm, Doris North Project, Nunavut, Canada

ACTIVE DRAWING STATUS

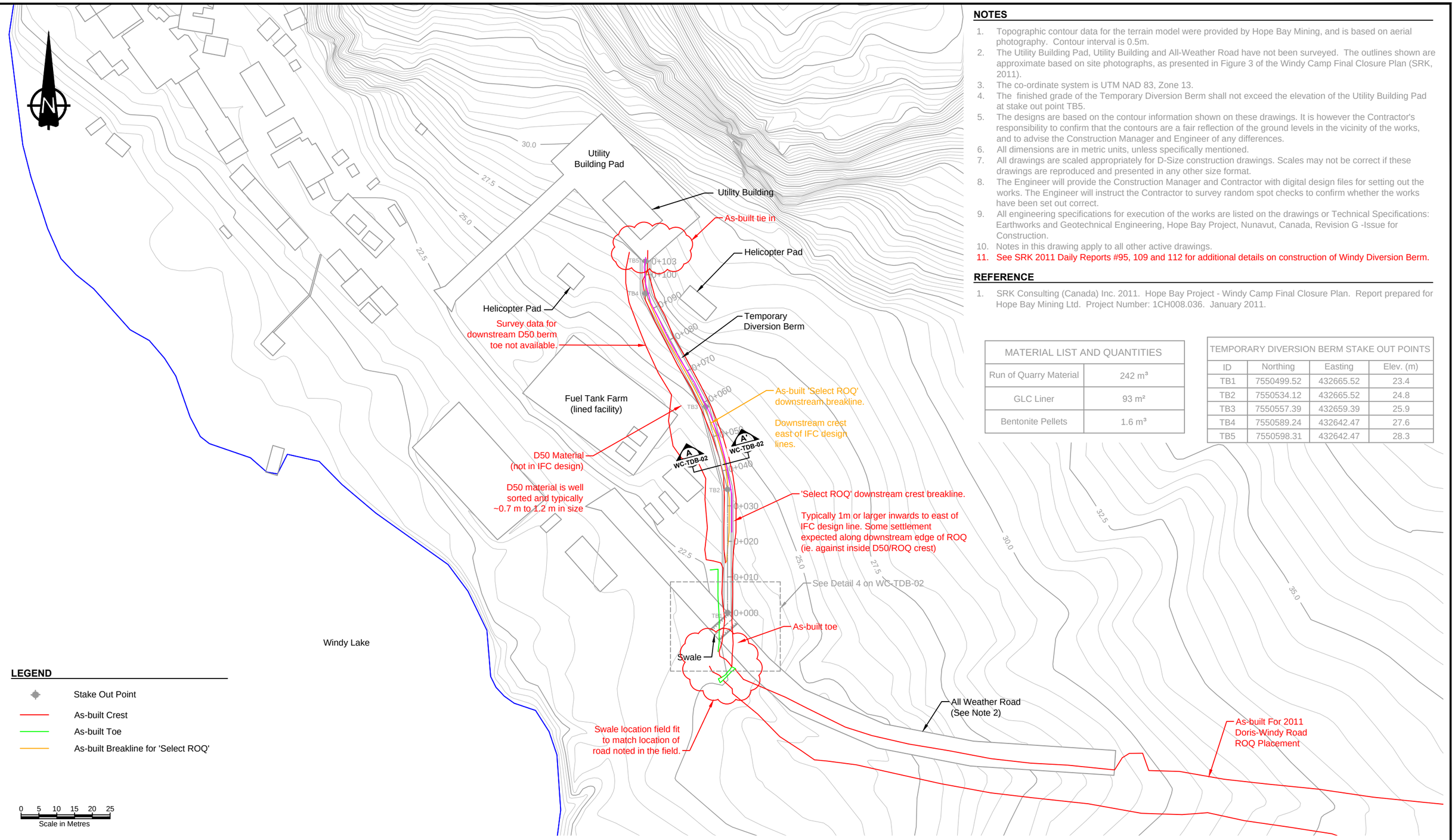
SRK DWG NUMBER	NEWMONT DWG NUMBER	DRAWING TITLE	REVISION	DATE	STATUS	OLD/REPLACED REVISIONS	
WC-TDB-00	HB+W-CIV-CIV-OND-15	Engineering Drawings for Windy Camp Temporary Diversion Berm	AB	May 17, 2012	2011 As-built	Rev 0, Apr. 4, 2011	Rev A, Mar. 11, 2011
WC-TDB-01	HB+W-CIV-CIV-OND-13	General Arrangement	AB	May 17, 2012	2011 As-built	Rev 0, Apr. 4, 2011	Rev A, Mar. 11, 2011
WC-TDB-02	HB+W-CIV-CIV-OND-14	Details and Sections	AB	May 17, 2012	2011 As-built	Rev 0, Apr. 4, 2011	Rev A, Mar. 11, 2011

HOPE BAY MINING LTD.

srk consulting

PROJECT NO: 1CH008.033/058
2011 As-built
Revision AB
May 17, 2012
WC-TDB-00 / HB+W-CIV-CIV-OND-15

J:\01_SITES\Hope_Bay\ACAD\2011 Drawings\Windy Camp Diversion Berm\DWG\2011 As-builts\WC-TDB-00_Title Page Rev AB.dwg



NOTES

1. Topographic contour data for the terrain model were provided by Hope Bay Mining, and is based on aerial photography. Contour interval is 0.5m.
2. The Utility Building Pad, Utility Building and All-Weather Road have not been surveyed. The outlines shown are approximate based on site photographs, as presented in Figure 3 of the Windy Camp Final Closure Plan (SRK, 2011).
3. The co-ordinate system is UTM NAD 83, Zone 13.
4. The finished grade of the Temporary Diversion Berm shall not exceed the elevation of the Utility Building Pad at stake out point TB5.
5. The designs are based on the contour information shown on these drawings. It is however the Contractor's responsibility to confirm that the contours are a fair reflection of the ground levels in the vicinity of the works, and to advise the Construction Manager and Engineer of any differences.
6. All dimensions are in metric units, unless specifically mentioned.
7. All drawings are scaled appropriately for D-Size construction drawings. Scales may not be correct if these drawings are reproduced and presented in any other size format.
8. The Engineer will provide the Construction Manager and Contractor with digital design files for setting out the works. The Engineer will instruct the Contractor to survey random spot checks to confirm whether the works have been set out correct.
9. All engineering specifications for execution of the works are listed on the drawings or Technical Specifications: Earthworks and Geotechnical Engineering, Hope Bay Project, Nunavut, Canada, Revision G -Issue for Construction.
10. Notes in this drawing apply to all other active drawings.
11. See SRK 2011 Daily Reports #95, 109 and 112 for additional details on construction of Windy Diversion Berm.

REFERENCE

1. SRK Consulting (Canada) Inc. 2011. Hope Bay Project - Windy Camp Final Closure Plan. Report prepared for Hope Bay Mining Ltd. Project Number: 1CH008.036. January 2011.

MATERIAL LIST AND QUANTITIES	
Run of Quarry Material	242 m³
GLC Liner	93 m²
Bentonite Pellets	1.6 m³

TEMPORARY DIVERSION BERM STAKE OUT POINTS			
ID	Northing	Easting	Elev. (m)
TB1	7550499.52	432665.52	23.4
TB2	7550534.12	432665.52	24.8
TB3	7550557.39	432659.39	25.9
TB4	7550589.24	432642.47	27.6
TB5	7550598.31	432642.47	28.3

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
–	–		

REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
AB	2011 AS-BUILT	JBK	EMR	17MAY12
0	ISSUED FOR CONSTRUCTION	MMM	EMR	4APR11
A	ISSUED FOR REVIEW	IM	EMR	10MAR11

REVISIONS

PROFESSIONAL ENGINEERS STAMP

srk consulting

DESIGN: IM | DRAWN: WJM | REVIEWED: LW
CHECKED: MMM/JBK | APPROVED: EMR | DATE: May 17, 2012
FILE NAME: WC-TDB-01_02_Rev AB.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LIMITED

SRK JOB NO.: 1CH008.033/058 | SRK DWG NO.: WC-TDB-01

Windy Camp
Temporary Diversion Berm

DRAWING TITLE: General Arrangement

DRAWING NO. HB+W-CIV-CIV-OND-13 | SHEET 2 OF 3 | REVISION NO. AB

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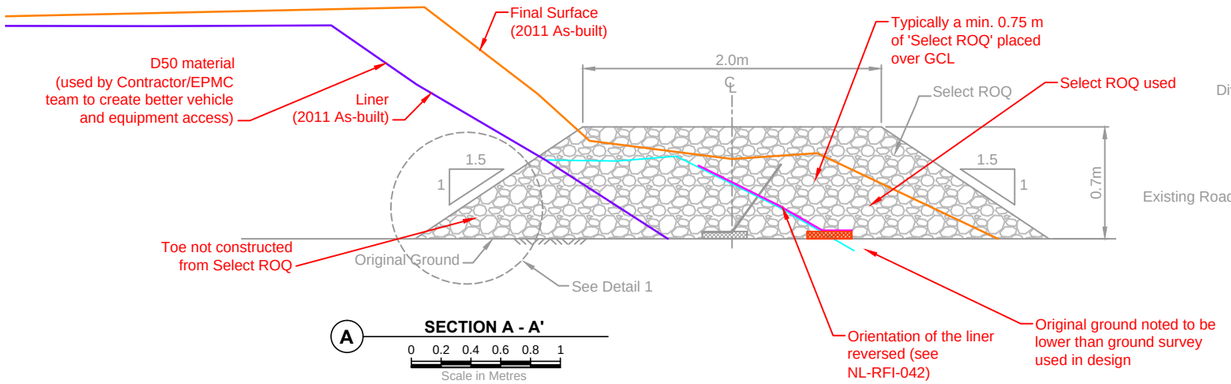

A SECTION A - A'

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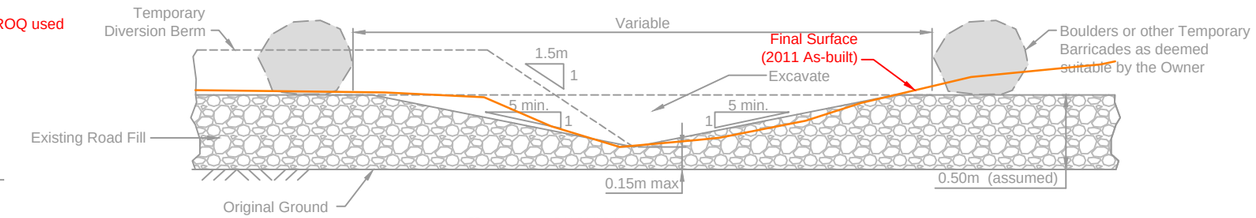
Scale in Metres



B SECTION B - B'

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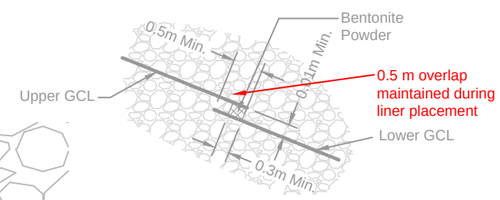
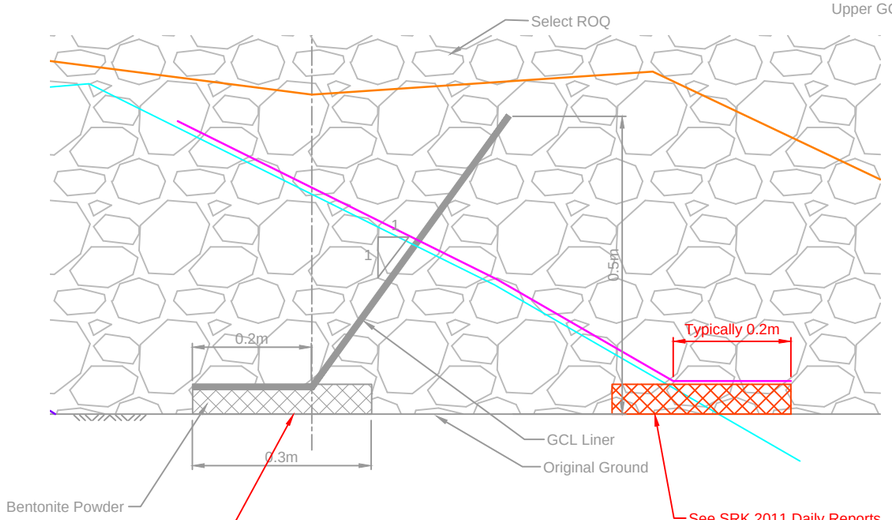
Scale in Metres



DETAIL 2
2 TYPICAL GCL OVERLAP - SECTION
NOT TO SCALE



DETAIL 1
1 TIE-IN OF GCL LINER

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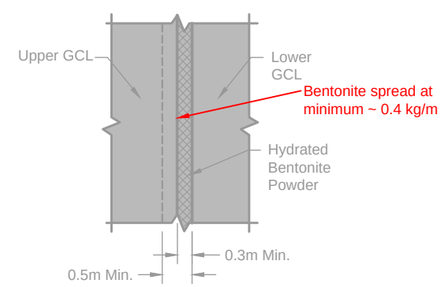
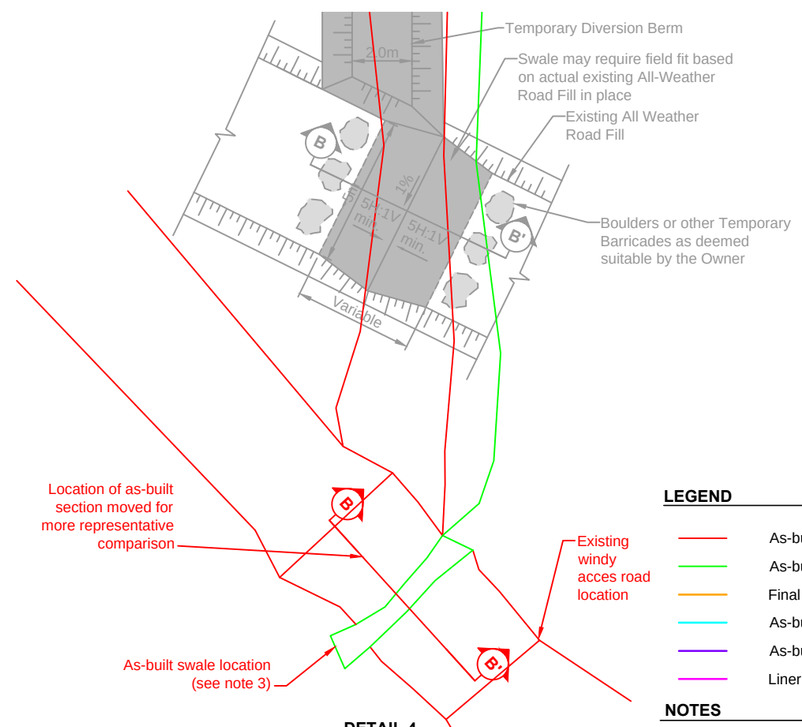
Scale in Metres



DETAIL 3
3 TYPICAL GCL OVERLAP -
PERPENDICULAR VIEW
NOT TO SCALE



DETAIL 4
4 JUNCTION POINT
BETWEEN ROAD AND BERM

0 0.5 1 1.5 2 2.5
Scale in Metres

LEGEND

- As-built Crest
- As-built Toe
- Final Surface
- As-built Select ROQ (for liner installation)
- As-built D50 Material
- Liner Surface (Interpreted)

NOTES

1. Owner to install signage to alert proximity of swale.
2. Select Run of Quarry (ROQ) material shall be well-graded, containing sufficient quantities of gravel, sand and silt sized materials; the maximum boulder size shall not exceed 500mm in any direction. Basic screening or manual selection may be used to achieve the desired gradation.
3. Location of junction between road and berm field fit to encountered conditions. Road arrangement around to the old Windy exploration camp area was noted in the field to be different than alignment approximated from site photos.

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
–	–		

REFERENCE DRAWINGS

NO.	DESCRIPTION	CHK'D	APP'D	DATE
AB	2011 AS-BUILT	JBK	EMR	17MAY12
0	ISSUED FOR CONSTRUCTION	MMM	EMR	4APR11
A	ISSUED FOR REVIEW	IM	EMR	10MAR11

REVISIONS

This drawing is uncontrolled when printed unless stamped and signed with original ink and recorded on a Distribution Register.

PROFESSIONAL ENGINEERS STAMP

srk consulting

DESIGN: IM | DRAWN: WJM | REVIEWED: LW
CHECKED: MMM/JBK | APPROVED: EMR | DATE: May 17, 2012
FILE NAME: WC-TDB-01_02_Rev AB.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LIMITED

SRK JOB NO.: 1CH008.033/058 | SRK DWG NO.: WC-TDB-02

Windy Camp
Temporary Diversion Berm

DRAWING TITLE: Details and Sections

DRAWING NO. HB+W-CIV-CIV-OND-14 | SHEET 3 OF 3 | REVISION NO. AB

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Engineering Drawings for the Doris North Camp Area Diversion Berm, Doris North Project, Nunavut, Canada

ACTIVE DRAWING STATUS

DWG NUMBER	NEWMONT DWG NUMBER	DRAWING TITLE	REVISION	DATE	STATUS	OLD/REPLACED REVISIONS		
DN-WDB-00	HB+D-CIV-CIV-OND-0165	Engineering Drawings for the Doris North Camp Area Diversion Berm	AB	July 16, 2012	As-built	Rev 2, Jan. 17, 2012	Rev 1, Jan. 13, 2012	Rev 0, Dec. 9, 2011
DN-WDB-01	HB+D-CIV-CIV-OND-0166	Diversion Berm General Arrangement	AB	July 16, 2012	As-built	Rev 2, Jan. 17, 2012	Rev 1, Jan. 13, 2012	Rev 0, Dec. 9, 2011
DN-WDB-02	HB+D-CIV-CIV-OND-0167	Diversion Berm Keytrench and ROQ Stakeout Tables	AB	July 16, 2012	As-built	Rev 1, Jan. 13, 2012	Rev 0, Dec. 9, 2011	Rev A, Dec. 5, 2011
DN-WDB-03	HB+D-CIV-CIV-OND-0168	Diversion Berm Sections and Details	AB	July 16, 2012	As-built	Rev 2, Jan. 17, 2012	Rev 1, Jan. 13, 2012	Rev 0, Dec. 9, 2011
DN-WDB-04	HB+D-CIV-CIV-OND-0169	Diversion Berm Sections and Details Continued	AB	July 16, 2012	As-built	Rev 0, Jan. 13, 2012		

HOPE BAY MINING LTD.

srk consulting

PROJECT NO: 1CH008.058
As-built
Revision AB
July 16, 2012
DN-WDB-00 / HB+D-CIV-CIV-OND-0165

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NOTES

1. The designs are based on the as-built contour information shown on these drawings. It is however the Contractor's responsibility to confirm that the contours are a fair reflection of the ground levels in the vicinity of the works, and to advise the Construction Manager and Engineer of any differences.
2. The co-ordinate system is UTM NAD 83, Zone 13.
3. All dimensions are in metric units, unless specifically mentioned. Section dimensions are presented in meters.
4. All drawings are scaled appropriately for D-Size construction drawings. Scales may not be correct if these drawings are reproduced and presented in any other size format.
5. The Engineer will provide the Construction Manager and Contractor with digital design files for setting out the works. The Engineer will instruct the Contractor to survey random spot checks to confirm whether the works have been set out correct.
6. Construction shall be in accordance with the following Technical Specifications: Earthworks and Geotechnical Engineering, Hope Bay project, Nunavut, Canada, Revision G -Issue for Construction.
7. Notes in this drawing apply to all other active drawings.

PLAN VIEW LEGEND

- Diversion Berm Area (3/4" Material)
- ROQ Cover Area
- As-built Crest
- As-built Toe
- As-built Daylight
- As-built Base of Key Trench

MATERIALS AND QUANTITIES:

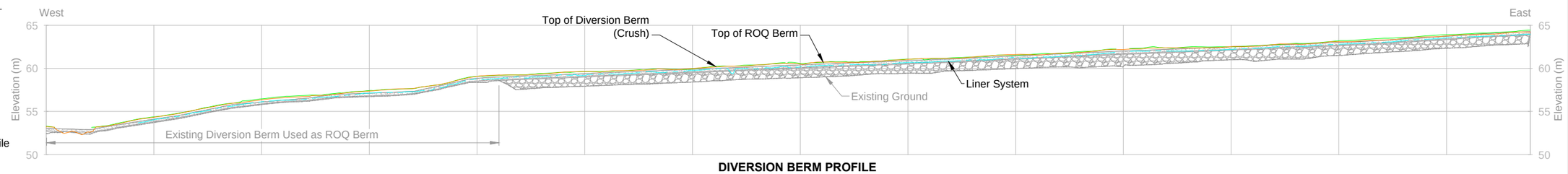
	Item	Area/Volume		Description
1.	3/4" Crush Material	Liner Subgrade	550m^3	Civil 3D Quantities to neat lines
		Overliner	1808m^3	
		Total	2353m^3	
2.	ROQ	3m wide ROQ Berm	3075m^3	
		ROQ Keytrench Cover	5319m^3	
3.	Geotextile	2 Layers	10440m^2	
4.	Geomembrane Liner		5494m^2	
5.	Bentonite Chips		100m^3	
6.	Keytrench Excavation		2849m^3	

DIVERSION BERM PLAN VIEW

0 10 20 30 40 50
Scale in Metres

SECTION LEGEND

- 3/4" Crush Material
- Run of Quarry Material
- Liner System
- Textured HDPE 60mil
- 12oz. Non-woven Geotextile
- Existing ground surface
- As-built Crush
- As-built HDPE
- As-built ROQ



DIVERSION BERM PROFILE

0 10 20 30 40 50
Horizontal Scale in Metres
Vertical Exaggeration 4X

REFERENCES

1. Engineering Drawings for the Doris North Camp Area, Doris North Project, Nunavut, Canada. Issued for Construction. Revision 7. Project No. 1CH008.027. April 7, 2011.

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
REFERENCE DRAWINGS			

NO.	DESCRIPTION	CHK'D	APP'D	DATE
AB	AS-BUILT	MMM	LW	11JUL12
2	UPDATED CULVERTS	LW	EMR	17JAN12
1	UPDATED TOPOGRAPHY	LW	EMR	13JAN12
0	ISSUED FOR CONSTRUCTION	LW	EMR	9DEC11
A	ISSUED FOR REVIEW	LW	EMR	5DEC11

REVISIONS

PROFESSIONAL ENGINEERS STAMP

srk consulting

DESIGN: LW	DRAWN: NV	REVIEWED: LW
CHECKED: MMM	APPROVED: LW	DATE: July 16, 2012

FILE NAME: 1CH008.058.217-PLN-DN-WDB-01_02_03 Rev AB.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LTD.

SRK JOB NO.: 1CH008.058 SRK DWG NO.: DN-WDB-01

Doris North Project

DRAWING TITLE: Diversion Berm General Arrangement

NEWMONT DRAWING NO. HB+D-CIV-CIV-OND-0166 | SHEET 2 of 5 | REVISION NO. AB

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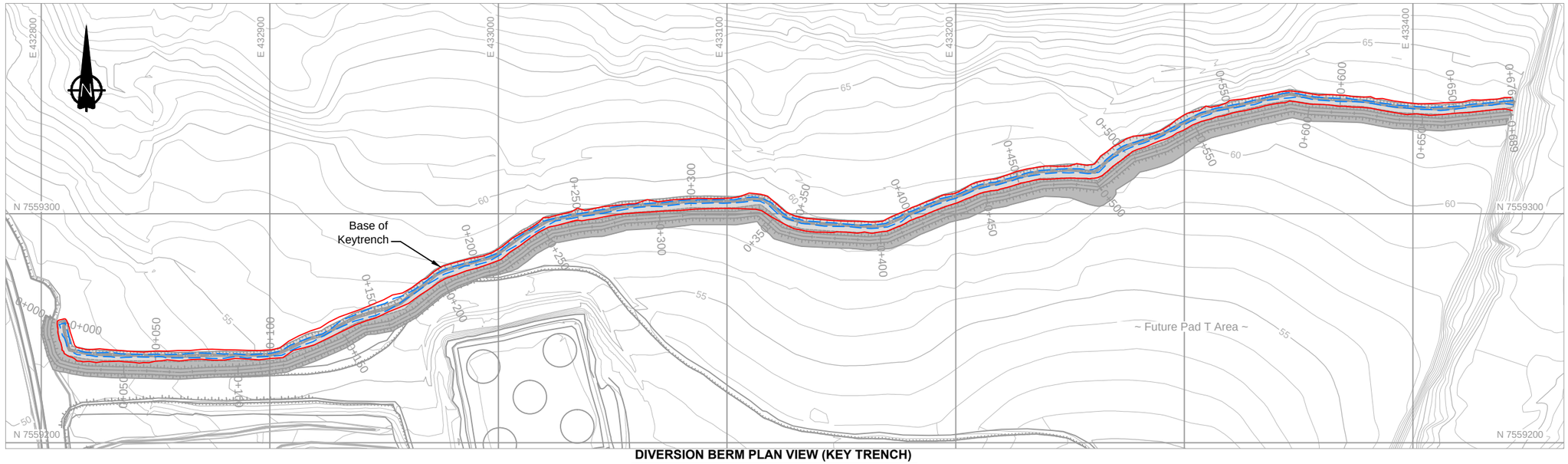
LEGEND

- ROQ Berm Area
- Keytrench Excavation
- As-built Crest
- As-built Toe
- As-built Daylight
- As-built Base of Key Trench

NOTES

1. The chainage stakeout points represent horizontal (directional) and vertical (grade) inflection points.



DIVERSION BERM PLAN VIEW (KEY TRENCH)

0 10 20 30 40 50
Scale in Metres

Keytrench Centerline Stakeout Table			
Chainage	Northing	Easting	Elevation
0+000.0	7559252.28	432810.28	50.22
0+001.7	7559250.66	432809.92	50.18
0+003.7	7559248.63	432810.13	50.13
0+010.5	7559241.99	432811.76	49.97
0+012.2	7559240.49	432812.37	49.93
0+018.9	7559239.20	432818.94	50.17
0+027.0	7559238.46	432827.04	50.46
0+054.0	7559237.98	432854.04	51.71
0+059.5	7559237.76	432859.58	52.05
0+077.7	7559238.29	432877.75	53.14
0+084.0	7559238.19	432884.05	53.41
0+094.4	7559238.41	432894.39	53.86
0+100.6	7559238.36	432900.64	53.92
0+105.6	7559239.80	432905.46	53.97
0+118.7	7559245.44	432917.23	54.10
0+125.2	7559247.08	432923.50	54.17
0+133.6	7559251.32	432930.79	54.25
0+140.9	7559254.68	432937.28	54.32
0+149.3	7559257.15	432945.32	54.41
0+157.0	7559259.03	432952.77	54.48
0+159.0	7559259.79	432954.62	54.55
0+161.9	7559260.94	432957.32	54.64
0+182.1	7559273.61	432972.96	56.02
0+186.7	7559275.55	432977.21	56.18
0+206.8	7559280.94	432996.51	56.72
0+210.1	7559282.37	432999.56	56.76
0+224.2	7559290.80	433010.85	56.89
0+236.7	7559297.02	433021.63	57.01
0+249.5	7559299.52	433034.24	57.13
0+259.9	7559300.59	433044.56	57.23
0+269.4	7559303.10	433053.71	57.33
0+290.0	7559304.55	433074.22	57.53
0+299.6	7559305.54	433083.83	57.62
0+319.0	7559305.51	433103.21	57.82
0+327.5	7559306.58	433111.62	57.90
0+331.7	7559306.34	433115.85	57.94
0+338.1	7559302.62	433121.02	58.00
0+345.2	7559297.87	433126.39	58.08
0+353.3	7559296.09	433134.24	58.16
0+378.3	7559294.60	433159.16	58.41
0+382.0	7559294.48	433162.87	58.45
0+387.9	7559294.98	433168.77	58.51
0+415.9	7559306.07	433194.46	58.79
0+424.0	7559308.15	433202.34	58.88
0+432.0	7559311.65	433209.54	58.96
0+440.1	7559313.22	433217.40	59.04
0+460.0	7559318.45	433236.67	59.23
0+472.5	7559319.17	433249.11	59.36
0+476.1	7559319.03	433252.75	59.39
0+484.2	7559318.20	433260.78	59.48
0+490.7	7559322.54	433265.67	59.55
0+501.2	7559329.21	433273.77	59.65
0+518.2	7559334.51	433289.94	59.82
0+538.5	7559343.90	433307.89	60.02
0+577.7	7559352.38	433346.12	60.41
0+586.9	7559350.72	433355.17	60.68
0+593.0	7559350.26	433361.25	60.82
0+610.5	7559349.22	433378.73	61.13
0+625.0	7559346.75	433393.04	61.34
0+645.0	7559345.78	433413.06	61.65
0+668.7	7559348.24	433436.58	61.96
0+676.0	7559348.95	433443.82	62.03

ROQ Berm Centerline Stakeout Table			
Chainage	Northing	Easting	Elevation
0+210.2	7559271.53	432986.52	58.59
0+218.1	7559274.22	432993.96	58.67
0+222.7	7559275.25	432998.43	58.71
0+227.2	7559277.11	433002.49	58.76
0+241.8	7559285.82	433014.23	58.90
0+252.9	7559291.40	433023.80	59.01
0+264.4	7559293.59	433035.18	59.13
0+269.7	7559294.24	433040.39	59.19
0+274.5	7559294.56	433045.18	59.24
0+284.8	7559297.23	433055.08	59.34
0+304.3	7559298.53	433074.56	59.53
0+314.1	7559299.54	433084.34	59.63
0+333.3	7559299.50	433103.54	59.83
0+342.1	7559300.58	433112.24	59.91
0+344.1	7559300.51	433114.26	59.94
0+356.1	7559292.61	433123.34	60.06
0+366.3	7559290.15	433133.23	60.16
0+395.3	7559288.40	433162.16	60.45
0+403.6	7559289.08	433170.41	60.52
0+431.3	7559300.16	433195.80	60.82
0+440.1	7559302.39	433204.36	60.92
0+448.5	7559306.01	433211.93	61.02
0+457.9	7559307.69	433221.18	61.13
0+475.3	7559312.37	433237.89	61.33
0+488.1	7559313.00	433250.70	61.48
0+500.0	7559311.76	433262.53	61.61
0+518.9	7559323.86	433277.11	61.79
0+535.0	7559328.73	433292.40	61.95
0+549.1	7559335.50	433304.79	62.09
0+554.8	7559337.99	433309.93	62.15
0+592.3	7559346.16	433346.55	62.53
0+600.3	7559344.90	433354.44	62.61
0+613.3	7559344.24	433367.42	62.74
0+624.0	7559343.69	433378.09	62.91
0+638.5	7559341.18	433392.36	63.14
0+659.2	7559340.10	433413.00	63.48
0+672.2	7559341.43	433425.94	63.69
0+689.2	7559343.16	433442.83	64.10

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
REFERENCE DRAWINGS			

NO.	DESCRIPTION	CHK'D	APP'D	DATE
AB	AS-BUILT	MMM	LW	11JUL12
1	UPDATED TOPOGRAPHY	LW	EMR	13JAN12
0	ISSUED FOR CONSTRUCTION	LW	EMR	9DEC11
A	ISSUED FOR REVIEW	LW	EMR	5DEC11

REVISIONS

PROFESSIONAL ENGINEERS STAMP

srk consulting

DESIGN: LW | DRAWN: NV | REVIEWED: LW
CHECKED: MMM | APPROVED: LW | DATE: July 16, 2012
FILE NAME: 1CH008.058.217-PLN-DN-WDB-01_02_03 Rev AB.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LTD.

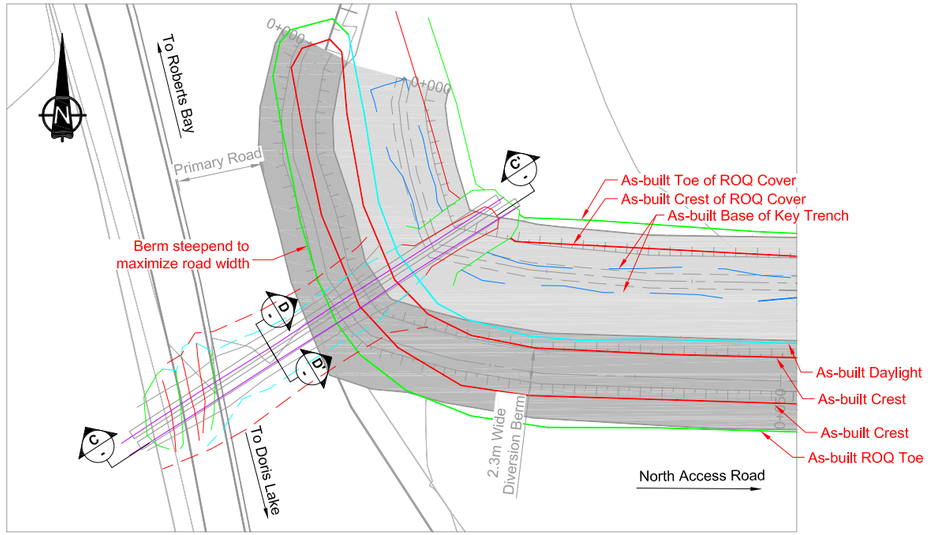
SRK JOB NO.: 1CH008.058 | SRK DWG NO.: DN-WDB-02

Doris North Project

DRAWING TITLE:
Diversion Berm
Keytrench and ROQ Berm Stakeout Tables

NEWMONT DRAWING NO.: HB+D-CIV-CIV-OND-0167 | SHEET: 3 of 5 | REVISION NO.: AB

J:\01_SITES\Hope Bay\ACAD\1CH008.033-000-PHASE1-C3D\WORKING\DWG\DORIS_NORTH_AREA\DORIS LAKE\CAMP AREA DIVERSION BERM\As-Built\1CH008.058.217-PLN-DN-WDB-01_02_03 Rev AB.dwg



1 CULVERT INLET DETAIL
DN-WDB-01
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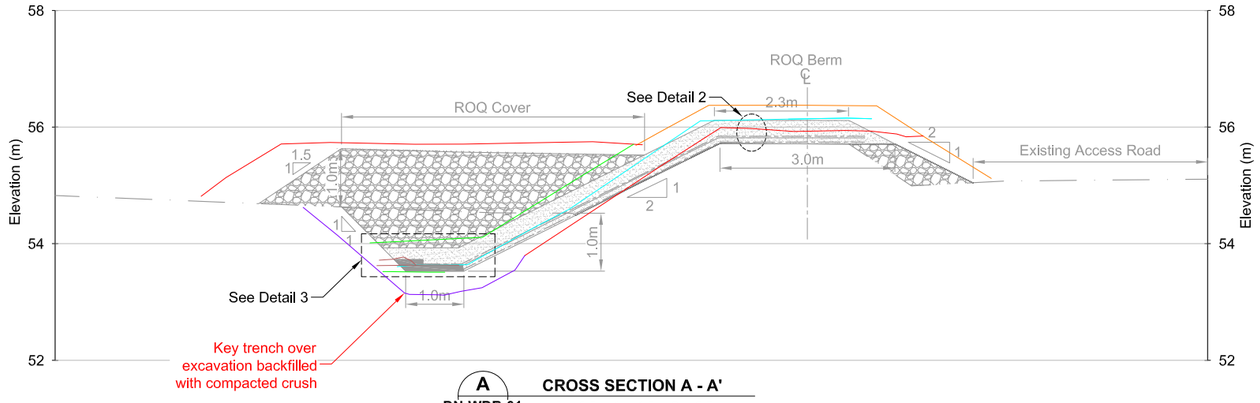
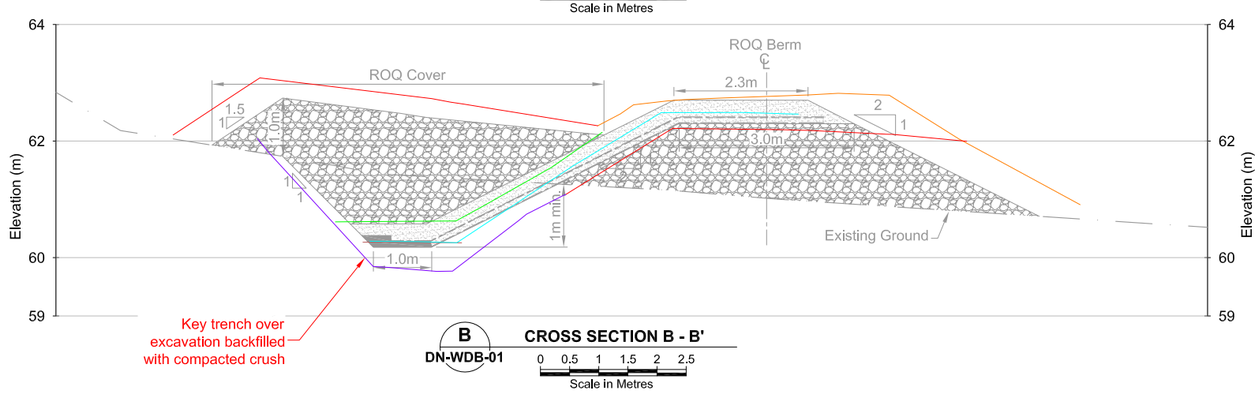
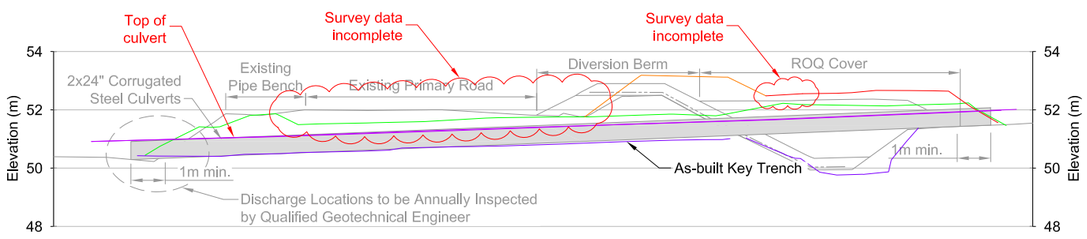
Scale in Metres



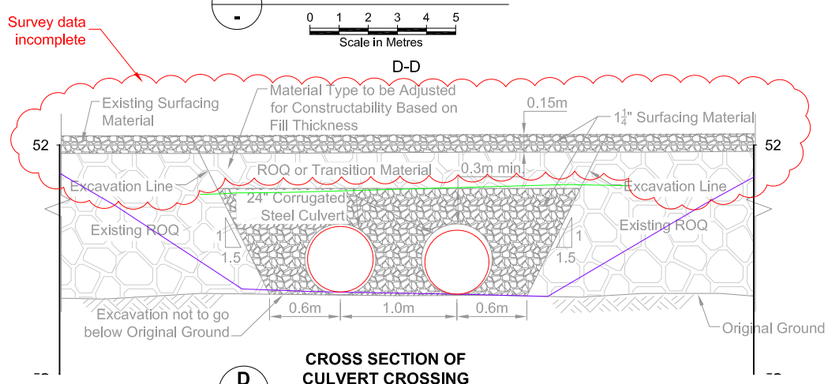
A CROSS SECTION A - A'
DN-WDB-01
0 0.5 1 1.5 2 2.5
Scale in Metres



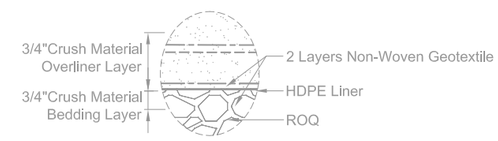
B CROSS SECTION B - B'
DN-WDB-01
0 0.5 1 1.5 2 2.5
Scale in Metres



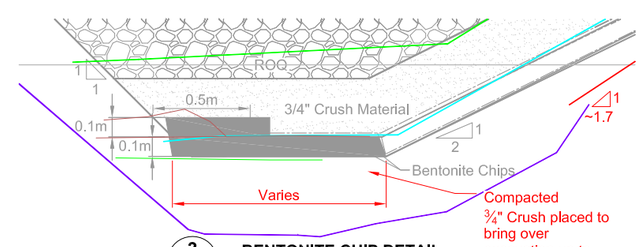
C CULVERT CROSS SECTION
0 1 2 3 4 5
Scale in Metres



D CROSS SECTION OF CULVERT CROSSING
NOT TO SCALE



2 LINER SYSTEM DETAIL
0 0.2 0.4 0.6 0.8 1
Scale in Metres



3 BENTONITE CHIP DETAIL
0 0.2 0.4 0.6 0.8 1
Scale in Metres

LEGEND (Section Views)

- Bentonite Chips
- 3/4" Crush Material
- Run of Quarry Material
- Liner System
- Textured HDPE 60mil
- As-built 12oz. Non-woven Geotextile
- Existing ground surface
- As-built 3/4" Crush Material
- As-built Final Berm
- As-built Excavation
- As-built Bentonite Chips
- As-built HDPE Liner System
- As-built ROQ
- As-built Top of Culvert

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
REFERENCE DRAWINGS			

NO.	DESCRIPTION	CHK'D	APP'D	DATE
AB	AS-BUILT	MMM	LW	11JUL12
2	UPDATED CULVERTS	LW	EMR	17JAN12
1	UPDATED TOPOGRAPHY	LW	EMR	13JAN12
0	ISSUED FOR CONSTRUCTION	LW	EMR	9DEC11
A	ISSUED FOR REVIEW	LW	EMR	5DEC11

REVISIONS

PROFESSIONAL ENGINEERS STAMP

srk consulting

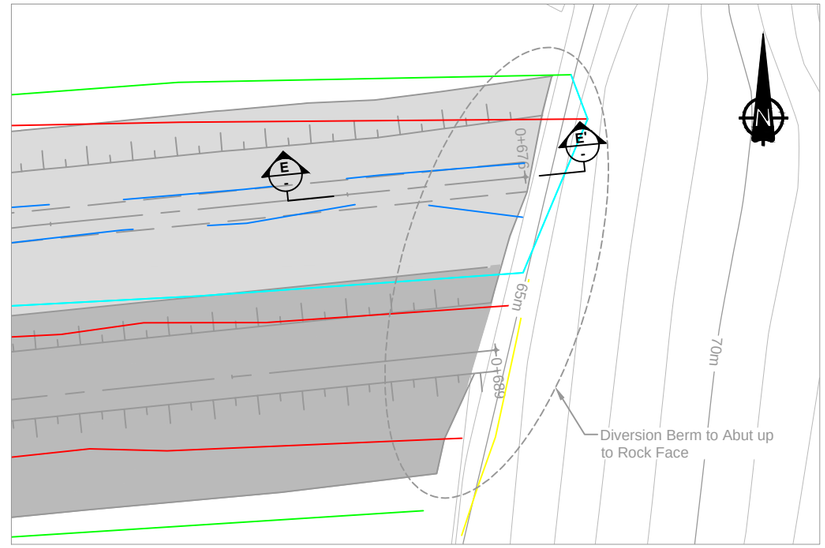
DESIGN: LW | DRAWN: NV | REVIEWED: LW
CHECKED: MMM | APPROVED: LW | DATE: July 16, 2012
FILE NAME: 1CH008.058.217-PLN-DN-WDB-01_02_03 Rev AB.dwg

NEWMONT NORTH AMERICA
HOPE BAY MINING LTD.
SRK JOB NO.: 1CH008.058 | SRK DWG NO.: DN-WDB-03

Doris North Project
DRAWING TITLE:
Diversion Berm Sections and Details

NEWMONT DRAWING NO.: HB+D-CIV-CIV-OND-0168 | SHEET 4 of 5 | REVISION NO. AB

J:\01_SITES\Hope Bay\ACAD\1CH008.033-000-PHASE I-C3D\WORKING\DWG\DORIS_NORTH_AREA\DORIS LAKE\CAMP AREA DIVERSION BERM\As-Built\1CH008.058.217-PLN-DN-WDB-01_02_03 Rev AB.dwg

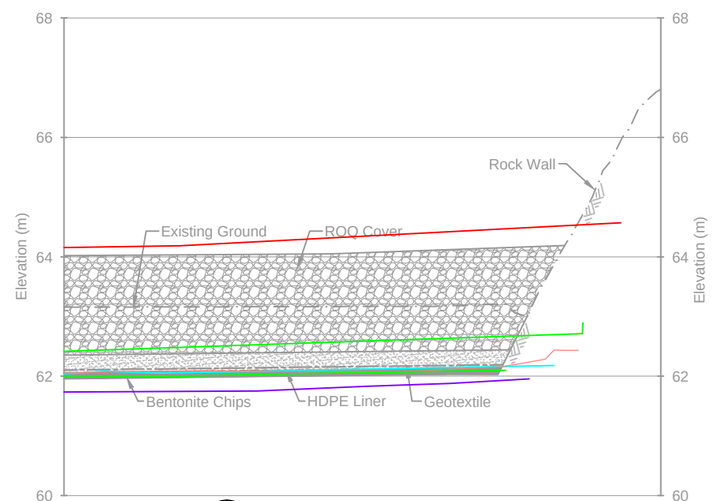


4 **KEYTRENCH / ROCK WALL TIE-IN DETAIL**
DN-WDB-01

0 1 2 3 4 5
Scale in Metres

PLAN VIEW LEGEND

- Diversion Berm Area (3/4" Material)
- ROQ Cover Area
- As-built Crest
- As-built Toe
- As-built Daylight
- As-built Base of Key Trench



E - E' **CROSS SECTION E - E'**

0 0.5 1 1.5 2 2.5
Scale in Metres

SECTION LEGEND

- Bentonite Chips
- 3/4" Crush Material
- Run of Quarry Material
- Liner System
- Textured HDPE 60mil
- 12oz. Non-woven Geotextile
- Existing ground surface
- As-built ROQ
- As-built Top of Crush
- As-built HDPE Liner System
- As-built Key Trench
- As-built Bentonite Chips

DRAWING NO.	DRAWING TITLE	DRAWING NO.	DRAWING TITLE
REFERENCE DRAWINGS			

NO.	DESCRIPTION	CHK'D	APP'D	DATE
AB	AS-BUILT	MMM	LW	11JUL12
0	ISSUED FOR CONSTRUCTION	LW	EMR	13JAN12

REVISIONS

PROFESSIONAL ENGINEERS STAMP

srk consulting

DESIGN: LW	DRAWN: NV	REVIEWED: LW
CHECKED: MMM	APPROVED: LW	DATE: July 16, 2012

FILE NAME: 1CH008.058.217-PLN-DN-WDB-01_02_03 Rev AB.dwg

NEWMONT NORTH AMERICA

HOPE BAY MINING LTD.

SRK JOB NO.: 1CH008.058 SRK DWG NO.: DN-WDB-04

Doris North Project

DRAWING TITLE:
Diversion Berm
Sections and Details Continued

NEWMONT DRAWING NO. HB+D-CIV-CIV-OND-0169
SHEET 5 of 5
REVISION NO. AB

J:\01_SITES\Hope Bay\VACAD\1CH008\033-000-PHASE1-C3D\WORKING\DORIS_NORTH_AREA\DORIS LAKE\CAMP AREA DIVERSION BERM\As-Built\1CH008.058.217-PLN-DN-WDB-01_02_03 Rev AB.dwg