

Engineering Drawings for the Roberts Bay Quarry 1 Fuel Tank Farm, Doris North Project, Nunavut, Canada

ACTIVE DRAWING STATUS

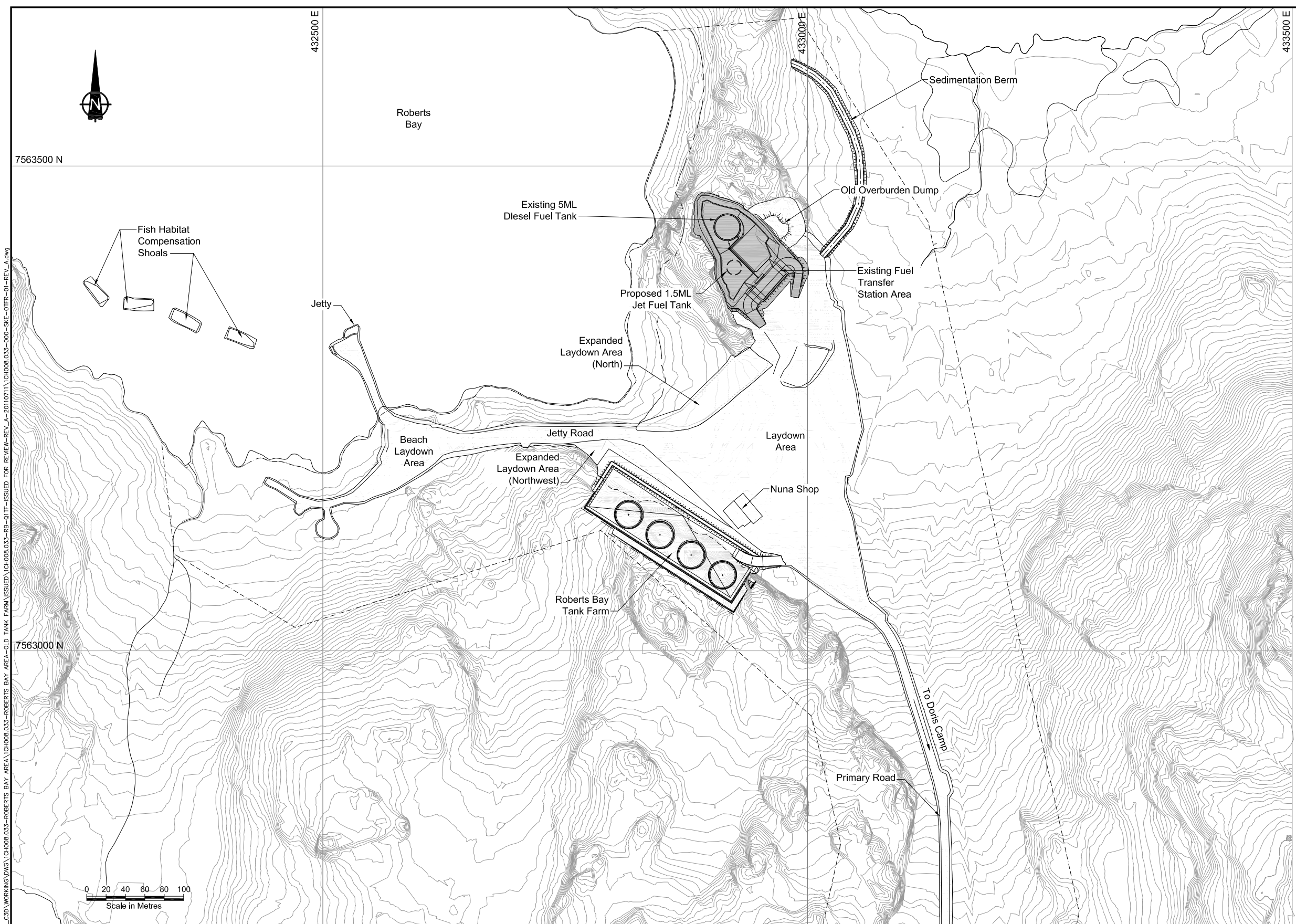
DWG NUMBER	NEWMONT DWG NUMBER	DRAWING TITLE	REVISION	DATE	STATUS	OLD/REPLACED REVISIONS	
RB-Q1TF-00	HB+R-CIV-CIV-OND-0047	Engineering Drawings for the Roberts Bay Quarry 1 Fuel Tank Farm	A	July 8, 2011	Issued for Review		
RB-Q1TF-01	HB+R-CIV-CIV-OND-0048	General Arrangement	A	July 8, 2011	Issued for Review		
RB-Q1TF-02	HB+R-CIV-CIV-OND-0049	Plan View and Sections	A	July 8, 2011	Issued for Review		
RB-Q1TF-03	HB+R-CIV-CIV-OND-0050	Sections and Details	A	July 8, 2011	Issued for Review		
RB-Q1TF-04	HB+R-CIV-CIV-OND-0051	Liner Raise Layout	A	July 8, 2011	Issued for Review		
RB-Q1TF-05	HB+R-CIV-CIV-OND-0052	Liner Cover Layout	A	July 8, 2011	Issued for Review		
RB-Q1TF-06	HB+R-CIV-CIV-OND-0053	Liner Raise Details Sheet 1 of 2	A	July 8, 2011	Issued for Review		
RB-Q1TF-07	HB+R-CIV-CIV-OND-0054	Liner Raise Details Sheet 2 of 2	A	July 8, 2011	Issued for Review		

HOPE BAY MINING LTD.



PROJECT NO: 1CH008.033
ISSUED FOR REVIEW
Revision A
July 8, 2011
RB-Q1TF-00 / HB+R-CIV-CIV-OND-0047

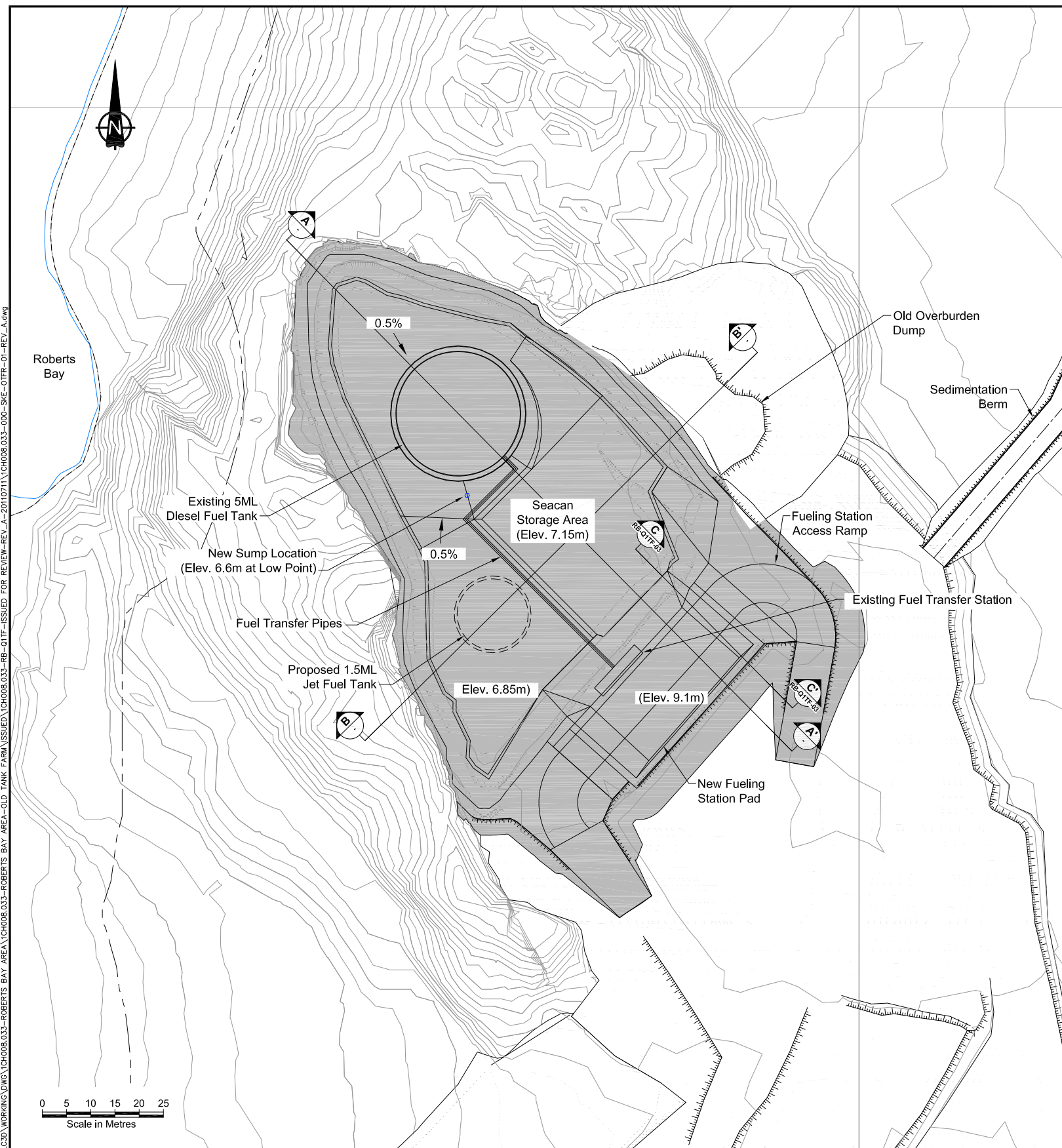
J:\01_SITES\Hope Bay\ACAD\C3D\WORKING\DWG\CH008.033-ROBERTS BAY AREA-OLD TANK FARM\ISSUED FOR REVIEW-REV_A-2010711\CH008.033-000-SKE-OTFR-01-REV_A.dwg



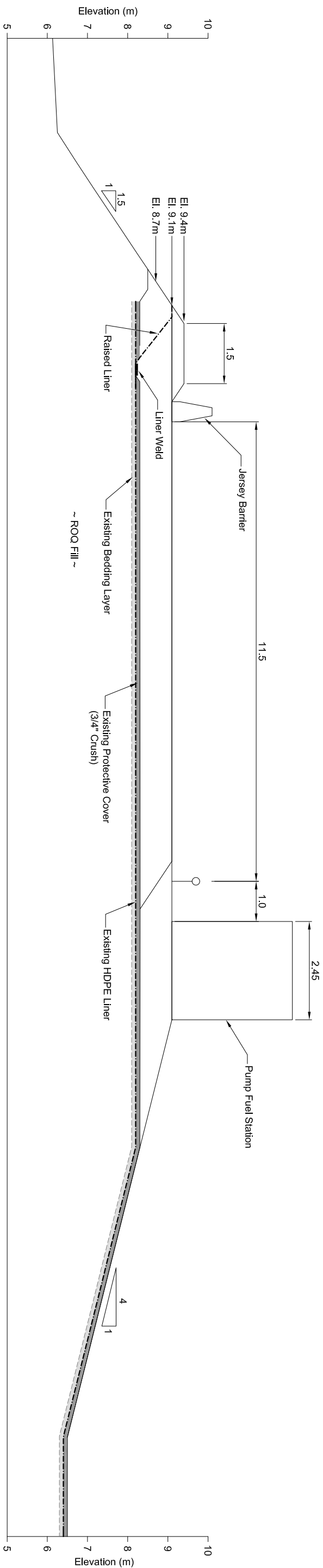
- NOTES**
1. The designs are based on the contour information shown on these drawings. It is however the Contractor's responsibility to confirm that the contours are a fair reflection of the ground levels in the vicinity of the works, and to advise the Construction Manager and Engineer of any differences.
 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
 - Commercial lease boundary
 - 30m shoreline setback

J. 01 - SITES / Hope Bay / ACAD																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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Doris North Project		
DRAWING TITLE: Roberts Bay Quarry 1 Fuel Tank Farm Plan View and Sections		
NEWMONT DRAWING NO. HB+R-CIV-CIV-OND-0049	SHEET 3 OF 7	REVISION NO. A



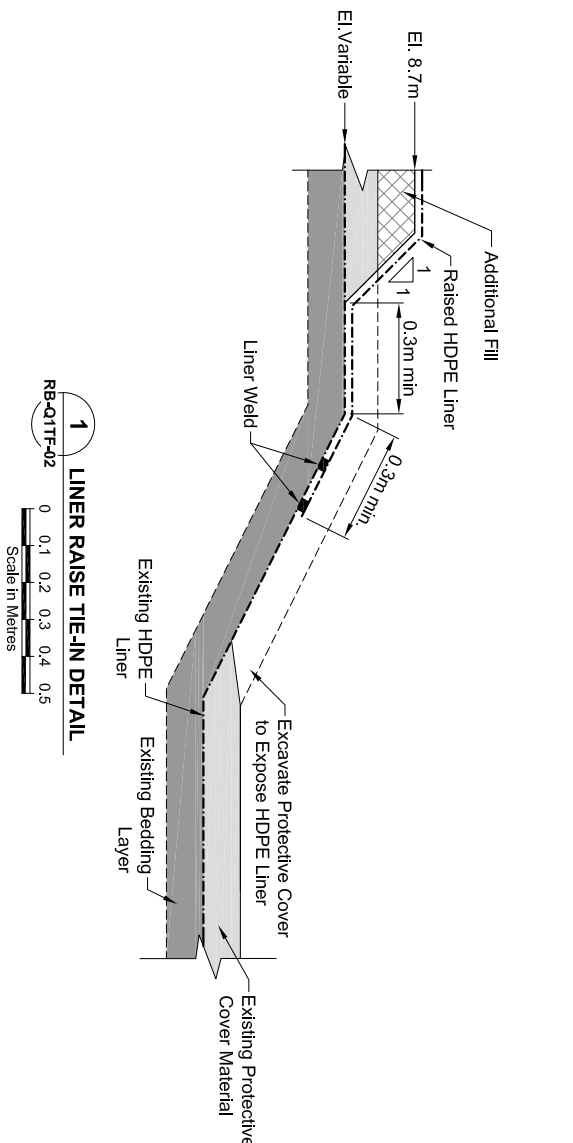
C

SECTION C - C'

RE-A1TF-02

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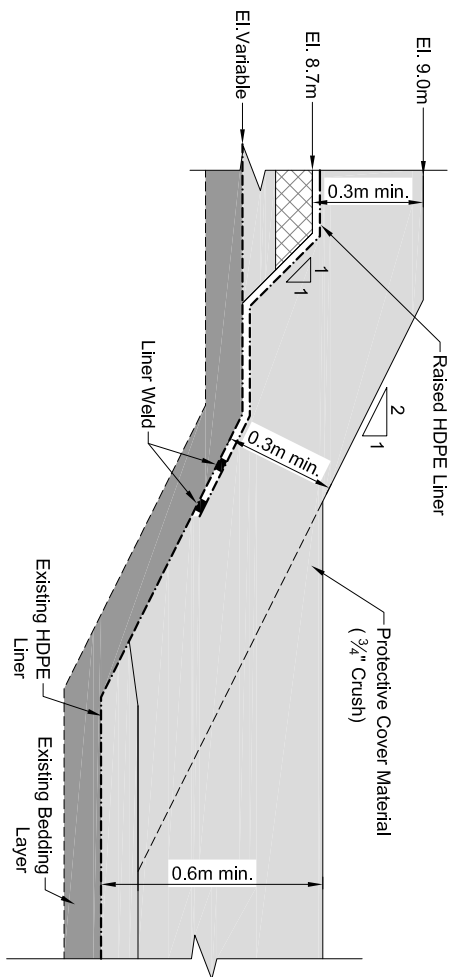
Scale in Metres



1 LINER RAISE TIE-IN DETAIL

RB-Q1TF-02

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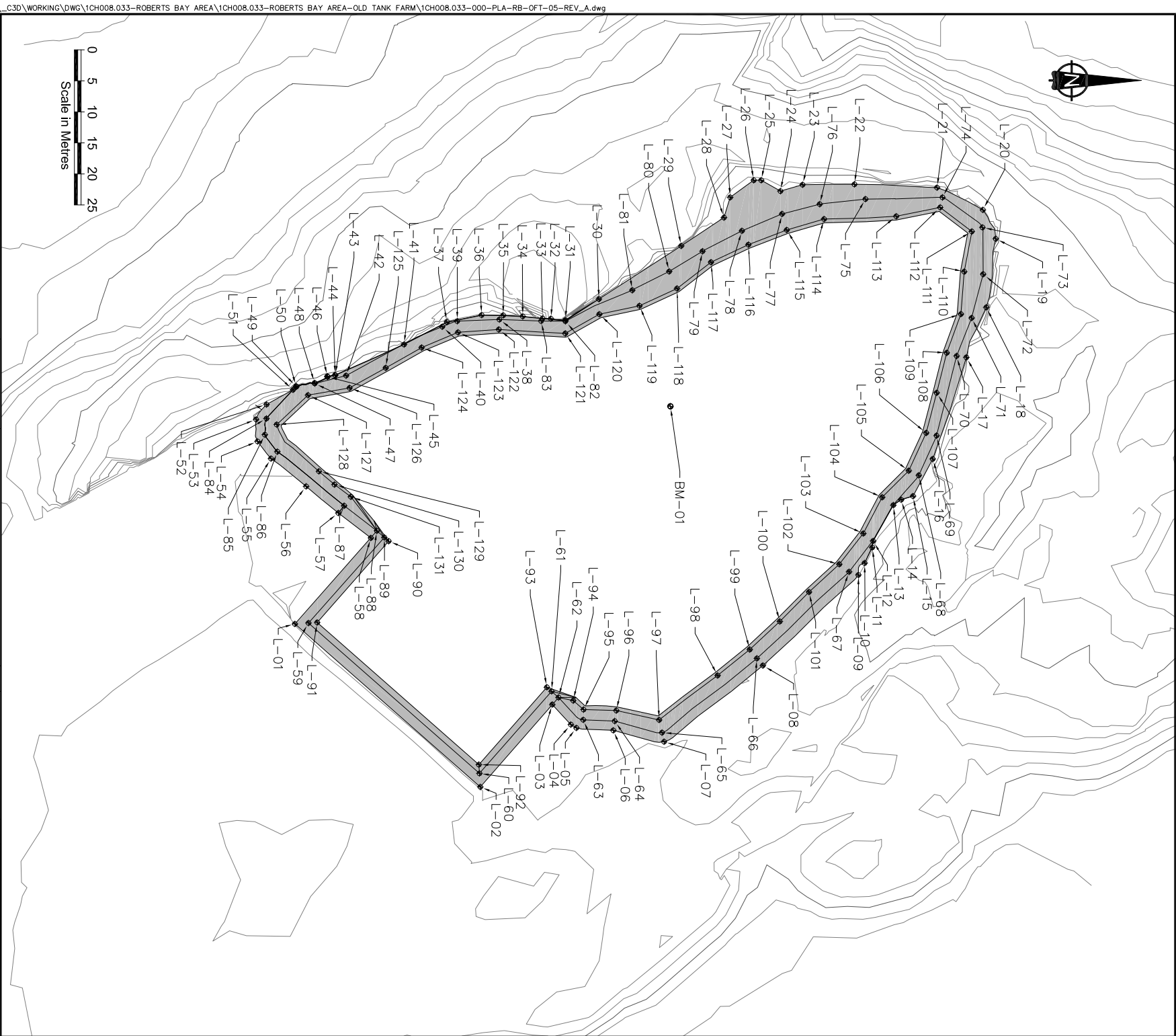


2 LINER RAISE COVER DETAIL

RB-Q1TF-02

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[illegible]



LINER EXTENSION - STAKE-OUT TABLE

ID	Northing	Easting	Elevation (m)
L-01	7563359.453	4329254.131	9.20
L-02	7563360.334	4329080.384	9.20
L-03	7563400.936	4329697.418	9.20
L-04	7563403.927	4329703.348	8.70
L-05	7563404.812	4329700.885	8.70
L-06	7563410.761	4329711.273	8.70
L-07	7563418.957	4329713.110	8.70
L-08	7563434.870	4329600.835	8.70
L-09	7563450.270	4329646.235	8.70
L-10	7563451.274	4329644.326	8.70
L-11	7563452.456	4329641.716	9.20
L-12	7563452.629	4329640.773	9.20
L-13	7563465.899	4329394.986	9.20
L-14	7563467.161	4329394.126	9.20
L-15	7563469.066	4329203.545	8.70
L-16	7563462.242	4329297.568	8.70
L-17	7563467.666	4329111.143	8.70
L-18	7563470.869	4329019.143	8.70
L-19	7563472.394	4329022.089	8.70
L-20	7563470.329	4328987.433	8.70
L-21	7563462.932	4328983.948	8.70
L-22	7563449.628	4328983.321	8.70
L-23	7563441.288	4328983.384	8.70
L-24	7563437.700	4328984.413	8.70
L-25	7563434.600	4328982.662	8.70
L-26	7563433.400	4328982.662	8.70
L-27	7563429.600	4328985.413	8.70
L-28	7563428.600	4328988.677	8.70
L-29	7563421.709	4328983.238	8.70
L-30	7563408.445	4329011.811	8.70
L-31	7563403.021	4329025.210	9.20
L-32	7563400.705	4329049.963	9.20
L-33	7563398.367	4329044.909	9.20
L-34	7563396.169	4329044.587	9.20
L-35	7563393.023	4329044.417	9.20
L-36	7563389.652	4329043.372	9.20
L-37	7563383.952	4329050.501	9.20
L-38	7563392.413	4329050.095	8.70
L-39	7563386.315	4329065.251	8.70
L-40	7563383.200	4329066.259	8.70
L-41	7563377.042	4329090.119	8.70
L-42	7563367.703	4329141.136	8.70
L-43	7563365.943	432914.081	8.70
L-44	7563365.927	432914.033	9.20
L-45	7563364.724	432914.332	8.70
L-46	7563364.675	4329149.240	8.70
L-47	7563362.658	4329154.404	8.70
L-48	7563362.627	4329155.309	9.70
L-49	7563359.698	4329155.924	8.70
L-50	7563355.646	4329155.836	9.70

**LINER EXTENSION - STAKE-OUT
TABLE**

ID	Nothing	Easting	Elevation (m)
L-51	7563359.151	432316.417	8.70
L-52	7563354.879	432318.782	8.70
L-53	7563353.193	432321.167	8.70
L-54	7563353.434	432322.734	8.70
L-55	7563355.598	432322.486	8.70
L-56	7563361.262	432331.974	8.70
L-57	7563366.449	432336.282	8.70
L-58	7563371.697	432340.277	8.20
L-59	7563361.641	432355.980	9.20
L-60	7563389.193	432378.207	9.20
L-61	7563400.810	432384.989	9.20
L-62	7563401.937	432386.979	9.20
L-63	7563405.922	432386.581	8.70
L-64	7563410.994	432386.781	8.70
L-65	7563418.615	432371.639	8.70
L-66	7563433.904	432359.688	8.70
L-67	7563448.759	432349.740	8.70
L-68	7563459.997	432330.188	8.70
L-69	7563462.858	432323.802	8.70
L-70	7563466.091	432310.973	8.70
L-71	7563468.511	432304.848	8.70
L-72	7563470.387	432307.789	8.70
L-73	7563470.249	432300.260	8.70
L-74	7563463.812	432386.427	8.70
L-75	7563465.004	432386.888	8.70
L-76	7563444.303	432386.515	8.70
L-77	7563437.984	432388.089	8.70
L-78	7563431.495	432390.817	8.70
L-79	7563425.144	432394.101	8.70
L-80	7563419.772	432387.385	8.70
L-81	7563413.826	432390.376	8.70
L-82	7563403.049	432395.376	8.70
L-83	7563399.134	432395.336	8.70
L-84	7563354.870	432321.049	8.70
L-85	7563354.605	432323.653	8.70
L-86	7563356.623	432322.384	8.70
L-87	7563367.392	432393.086	8.70
L-88	7563372.668	432393.136	9.20
L-89	7563374.660	432340.203	9.20
L-90	7563374.565	432340.801	8.20
L-91	7563363.052	432345.889	8.20
L-92	7563389.102	432376.795	8.20
L-93	7563400.059	432364.328	8.20
L-94	7563404.310	432366.480	7.99
L-95	7563405.971	432367.930	7.87
L-96	7563411.248	432368.086	7.85
L-97	7563418.150	432368.597	7.65
L-98	7563427.572	432362.431	7.76
L-99	7563432.752	432356.258	7.78
L-100	7563437.801	432355.733	7.76

**LINER EXTENSION - STAKE-OUT
TABLE**

ID	Nothing	Existing	Elevation (m)
L-101	7563442.303	4322048.995	7.74
L-102	7563447.191	4323454.518	7.71
L-103	7563455.050	4323309.563	7.73
L-104	7563454.098	4323383.723	7.63
L-105	7563458.381	4323293.453	7.81
L-106	7563461.188	4323232.385	7.84
L-107	7563462.881	4323116.503	7.87
L-108	7563464.503	4323014.466	7.87
L-109	7563466.787	4323004.218	7.75
L-110	7563467.320	4323097.388	7.15
L-111	7563468.543	4323809.916	7.79
L-112	7563463.444	4323887.035	7.88
L-113	7563466.381	4323888.487	7.28
L-114	7563444.731	4323888.915	7.45
L-115	7563438.718	4323890.671	7.36
L-116	7563432.537	4323983.036	7.47
L-117	7563426.510	4323989.866	7.58
L-118	7563421.036	4323900.102	7.19
L-119	7563414.981	4323902.887	7.30
L-120	7563408.516	4323904.244	7.92
L-121	7563403.029	4323907.337	7.76
L-122	7563392.313	4323906.702	7.90
L-123	7563386.742	4323907.165	7.80
L-124	7563379.878	4323909.616	7.77
L-125	7563374.092	4323912.889	7.71
L-126	7563368.270	4323916.115	7.70
L-127	7563361.567	4323921.280	7.52
L-128	7563356.558	4323922.021	7.74
L-129	7563363.328	4323929.554	7.86
L-130	7563365.832	4323931.680	7.86
L-131	7563368.471	4323933.665	7.80

BENCHMARK STAKE-OUT TABLE			
ID	Northing	Easting	Elevation (m)
BM-01	7563419.971	432919.076	6.50

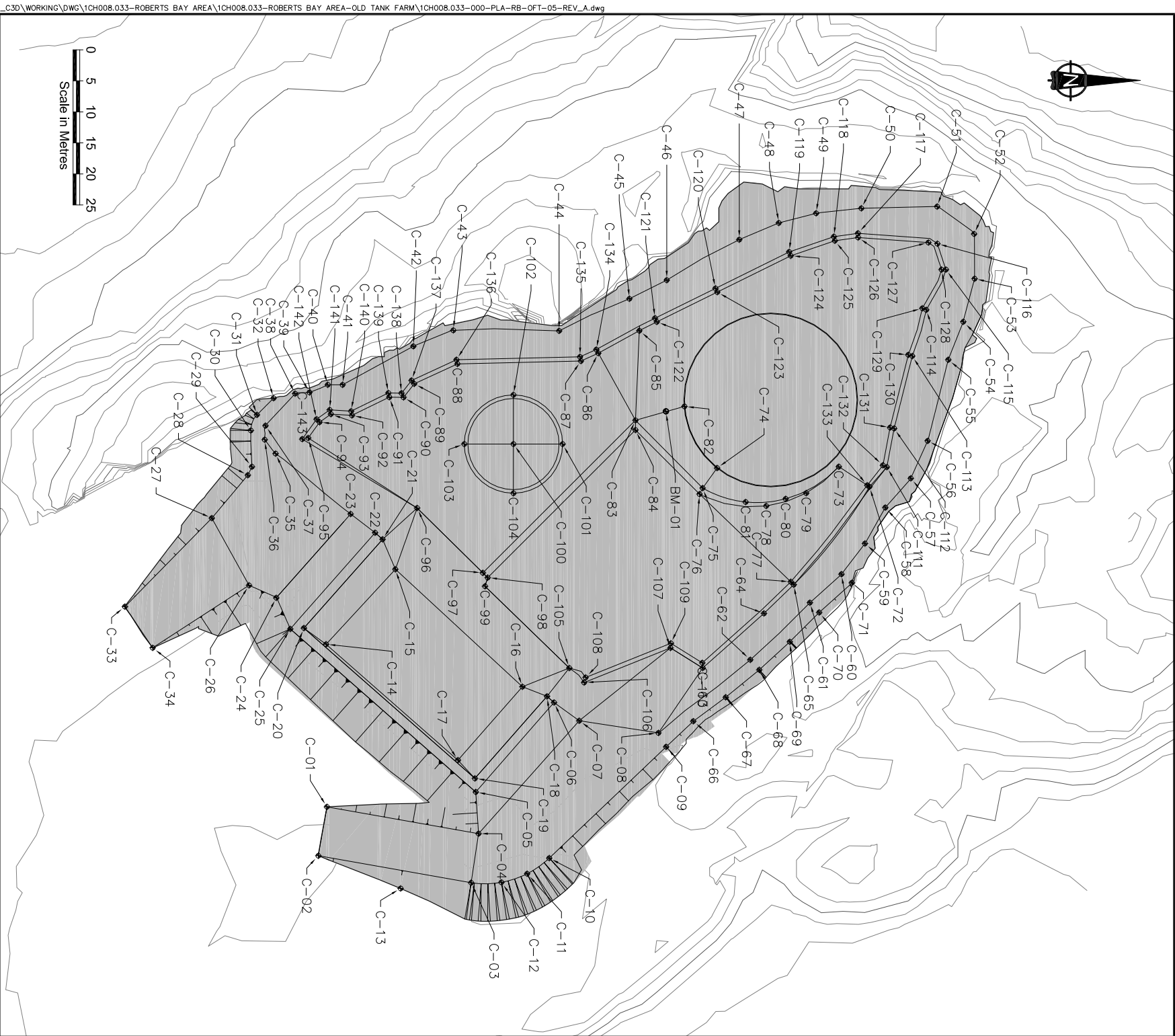
NOTES

1. The co-ordinate system is UTM NAD 83, Zone 13.
2. All dimensions are in metric units, unless specifically mentioned.
3. 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
4. Construction shall be in accordance with the following Technical Specifications:
Earthworks and Geotechnical Engineering, Hope Bay project, Nunavut, Canada, Revision G-1ssue for Construction.
5. Notes in this drawing apply to all other active drawings.

Item	Quantity/real Volume	Description ¹
34" Finishing Material	TF Overfill (thickness varies) 5,170 m³ 2011 TFk Preheats (flour) 172 m³ Total 5,397 m³	Volumes derived from CMI 30
Geosilite Non-Vooren Needs	TF Geosilite (underlayer)³ 1,482 m³ 2011 TF Geosilite (overlayer)³ 1,482 m³ Total 2,924 m³	Volumes derived from CMI 30
Punched LP 16 or equivalent	1,482 m³ 2011	Volumes derived from CMI 30
Ultr Durable Sols Treated HDPE 80 or equivalent	1,482 m³ 2011	Volumes derived from CMI 30

1. All volumes reported are calculated to neat lines. No bunking/sinking factor have been utilized in the volume.
2. Area does not account for overlaps, excess required for installation or for any deviation from neat design lines/losses into the Tundra are not accounted for.

Doris North Project									
DRAWING TITLE: Quarry 1 Fuel Tank Farm Liner Raise Layout									
NEWMONT DRAWING NO.: HB+R-CIV-CIV-OND-0051									
SHEET 4 of 8									
REVISION NO.: A									
NEWMONT NORTH AMERICA									
HOPE BAY MINING LTD.									
SRK JOB NO.: 1CH008.033									
SRK DWG NO.: RB-Q1TF-04									
DESIGN: IM									
DRAWN: BPM									
REVIEWED: EMR									
CHECKED: IM									
APPROVED: EMR									
DATE: July 08, 2011									
FILE NAME: 1CH008.033-000-RB-Q1TF-05-REV-A.dwg									
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									
DRAWING NO.									
DRAWING TITLE									
REFERENCE DRAWINGS									
REVISIONS									
NO.									
DESCRIPTION									
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EMR									
08JUL11									
CHK'D									
APP'D									
DATE									



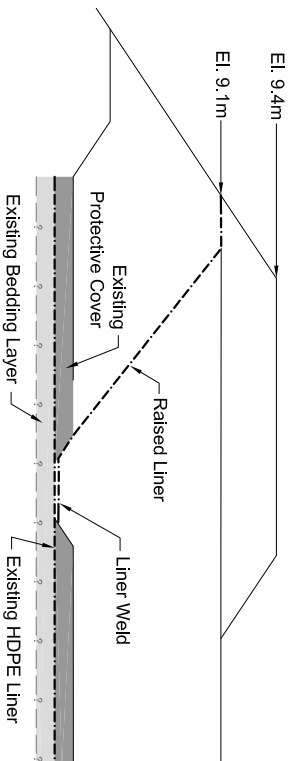
COVER EXTENSION - STAKE-OUT			
TABLE			
ID	Northing	Easting	Elevation (m)
C-01	7565365.355	432982.787	6.05
C-02	7565363.986	432990.666	5.94
C-03	7565368.586	432995.012	9.00
C-04	7565368.781	432987.102	9.00
C-05	7565369.334	432980.394	9.20
C-06	7565340.1937	432965.979	9.20
C-07	7565406.003	432868.914	9.00
C-08	7565418.759	432970.879	9.00
C-09	7565341.9397	432973.116	9.00
C-10	7565340.1172	432991.043	9.00
C-11	7565397.605	432993.562	9.00
C-12	7565393.464	432994.947	9.00
C-13	7565337.221	432995.928	6.21
C-14	7565365.211	432966.596	9.10
C-15	7565376.379	432944.519	9.10
C-16	7565366.844	432963.442	9.10
C-17	7565366.452	432975.265	9.10
C-18	7565340.610	432964.989	9.20
C-19	7565369.193	432978.207	9.20
C-20	7565331.641	432965.990	9.20
C-21	7565334.321	432939.695	9.50
C-22	7565373.112	432938.632	9.50
C-23	7565363.168	432935.612	9.50
C-24	7565367.186	432949.121	9.50
C-25	7565369.453	432964.131	9.20
C-26	7565362.799	432947.089	9.00
C-27	7565346.800	432936.279	9.00
C-28	7565332.609	432929.357	9.00
C-29	7565393.286	432928.003	9.00
C-30	7565333.093	432922.160	9.00
C-31	7565364.075	432919.639	9.00
C-32	7565366.760	432916.950	9.00
C-33	7565332.804	432950.540	7.61
C-34	7565337.217	432957.173	7.51
C-35	7565367.081	432925.888	9.00
C-36	7565365.527	432923.639	9.00
C-37	7565365.454	432921.391	9.00
C-38	7565360.224	432916.222	9.00
C-39	7565362.536	432916.030	9.00
C-40	7565365.482	432914.800	9.00
C-41	7565367.614	432914.807	9.00
C-42	7565379.212	432908.598	9.00
C-43	7565365.706	432906.026	9.00
C-44	7565342.763	432906.113	9.00
C-45	7565341.087	432900.943	9.00
C-46	7565340.096	432897.942	9.00
C-47	7565341.779	432891.424	9.00
C-48	7565348.155	432888.731	9.00
C-49	7565344.166	432887.172	9.00
C-50	7565341.448	432886.387	9.00

COVER EXTENSION - STAKE-OUT			
TABLE			
ID	Nothing	Existing	Elevation (m)
C-51	7563.63,659	432986.095	9.00
C-52	7563.689,618	432990.503	9.00
C-53	7563.689,697	432997.713	9.00
C-54	7563.667,888	432994.653	9.00
C-55	7563.665,452	432910.767	9.00
C-56	7563.642,134	432923.836	9.00
C-57	7563.659,412	432928.866	9.00
C-58	7563.655,313	432934.572	9.00
C-59	7563.642,032	432940.389	9.00
C-60	7563.448,246	432945.308	9.00
C-61	7563.343,162	432949.900	9.00
C-62	7563.345,898	432956.100	9.00
C-63	7563.342,954	432960.417	7.15
C-64	7563.353,767	432951.626	7.15
C-65	7563.440,565	432947.000	7.15
C-66	7563.342,375	432986.394	9.00
C-67	7563.429,603	432965.141	9.00
C-68	7563.335,020	432960.720	9.00
C-69	7563.339,920	432966.206	9.00
C-70	7563.444,655	432951.477	9.00
C-71	7563.449,922	432964.693	9.00
C-72	7563.652,760	432931.219	6.80
C-73	7563.471,819	432927.394	6.80
C-74	7563.828,211	432928.210	6.80
C-75	7563.425,884	432931.437	6.80
C-76	7563.423,579	432932.414	7.15
C-77	7563.440,081	432934.535	7.15
C-78	7563.336,125	432934.322	6.90
C-79	7563.342,564	432932.283	6.75
C-80	7563.339,258	432933.168	6.80
C-81	7563.342,807	432933.684	6.80
C-82	7563.422,951	432918.283	6.80
C-83	7563.341,081	432922.057	6.80
C-84	7563.3415,081	432922.084	7.15
C-85	7563.3415,686	432906.088	6.85
C-86	7563.009,076	432908.710	6.85
C-87	7563.006,274	432910.989	6.85
C-88	7563.986,379	432911.435	6.85
C-89	7563.779,410	432914.641	6.85
C-90	7563.375,389	432916.755	6.85
C-91	7563.375,389	432916.755	6.85
C-92	7563.693,384	432919.179	6.85
C-93	7563.695,995	432919.526	6.85
C-94	7563.984,160	432920.824	6.85
C-95	7563.662,332	432923.367	6.85
C-96	7563.973,882	432934.651	6.85
C-97	7563.901,468	432945.004	7.15
C-98	7563.991,252	432945.866	7.15
C-99	7563.990,823	432947.265	7.15
C-100	7563.995,399	432942.347	7.50

COVER EXTENSION - STAKE-OUT			
TABLE			
ID	Nothing	Existing	Elevation (m)
C-101	7563403.319	432924.347	6.86
C-102	7563396.389	432016.427	6.86
C-103	7563387.419	432924.347	6.86
C-104	7563395.389	432932.267	6.86
C-105	7563404.386	432960.427	7.15
C-106	7563406.792	432962.761	7.15
C-107	7563420.689	432957.168	7.15
C-108	7563407.027	432961.945	7.15
C-109	7563420.765	432956.440	7.15
C-110	7563425.823	432959.585	7.15
C-111	7563455.553	432928.056	6.85
C-112	7563456.736	432921.834	6.85
C-113	7563459.655	432910.171	6.85
C-114	7563461.905	432902.727	6.85
C-115	7563465.017	432986.240	6.85
C-116	7563463.703	432982.075	6.85
C-117	7563450.902	432990.404	6.85
C-118	7563447.024	432990.940	6.85
C-119	7563439.819	432993.400	6.85
C-120	7563427.950	432989.288	6.85
C-121	7563418.204	432904.067	6.85
C-122	7563418.502	432904.867	6.85
C-123	7563428.247	432989.889	6.85
C-124	7563404.077	432984.020	6.85
C-125	7563447.179	432991.585	6.85
C-126	7563450.924	432991.077	6.85
C-127	7563462.253	432991.886	6.85
C-128	7563464.368	432996.246	6.85
C-129	7563461.275	432992.478	6.85
C-130	7563459.013	432908.977	6.85
C-131	7563456.081	432921.680	6.85
C-132	7563454.925	432927.771	6.85
C-133	7563452.405	432930.987	6.85
C-134	7563406.152	432909.124	6.85
C-135	7563408.744	432910.302	6.85
C-136	7563398.225	432910.768	6.85
C-137	7563378.983	432914.100	6.85
C-138	7563377.371	432916.151	6.85
C-139	7563375.248	432916.123	6.85
C-140	7563369.249	432918.050	6.85
C-141	7563365.800	432918.844	6.85
C-142	7563363.682	432920.342	6.85
C-143	7563361.376	432922.549	6.85

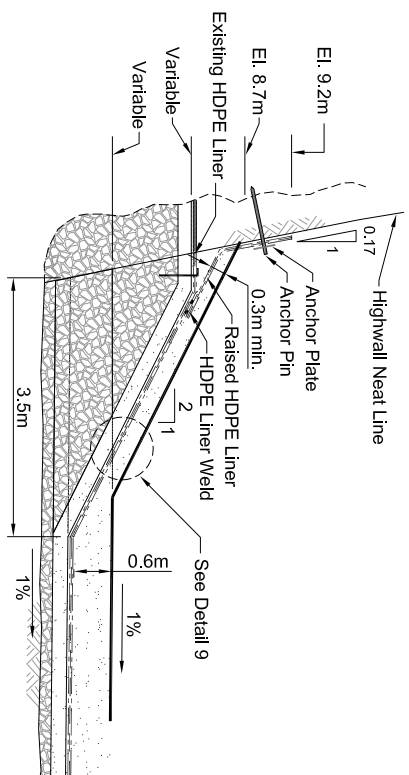
BENCHMARK STAKE-OUT TABLE			
ID	Northing	Easting	Elevation (m)
BM-01	7563419.971	432919.076	6.50

Doris North Project									
DRAWING TITLE: Quarry 1 Fuel Tank Farm Liner Cover Layout									
NEWMONT. NORTH AMERICA									
HOPE BAY MINING LTD.									
NEWMONT DRAWING NO. HB-R-CIV-CIV-OND-0052									
SHEET 5 OF 8									
REVISION NO. A									
SRK JOB NO.: 1CH008.033									
SRK DWG NO.: RB-Q1TF-05									
SRK FILE NAME: 1CH008.033-000-PLA-RB-Q1TF-05-REV-A.dwg									
DESIGN: IM									
DRAWN: BFM									
REVIEWED: LW									
CHECKED: IM									
APPROVED: EKR									
DATE: July 08, 2011									
This drawing is uncontrolled when printed unless stamped and signed with original ink and recorded on a Distribution Register.									
PROFESSIONAL ENGINEER'S STAMP									
Original Drawings Stamped and Signed by Engineer									
DRAWING NO.									
DRAWING TITLE									
DRAWING NO.									
DRAWING TITLE									
NO.									
Issued for Review									
DESCRIPTION									
CHK'D									
APP'D									
DATE									
REVISIONS									
REFERENCE DRAWINGS									



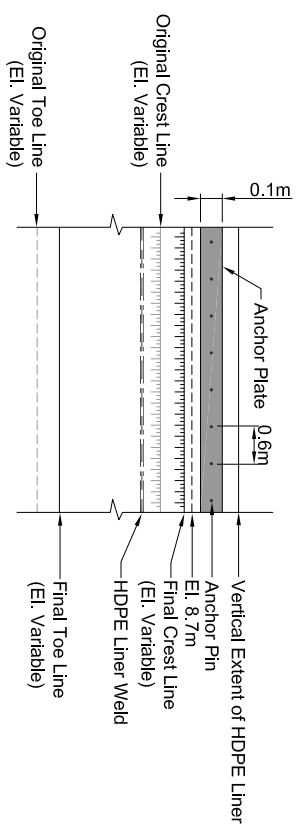
3 **TYPICAL DETAIL 3**

RB-Q1TF-03 **LINER RAISE TIE-IN DETAIL**



4
TYPICAL DETAIL 4
RB-QTTE-02 TYPICAL FINAL TANK FARM SECTION ALONG BERM

0 0.5 1 1.5 2 2.5
Scale in Metres



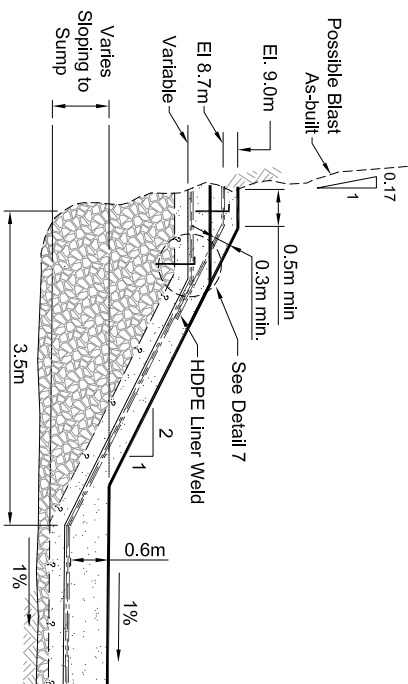
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RB-Q1TF-02

SCHEMATIC VIEW LOOKING AT HIGH WALL

0 0.5 1 1.5 2 2.5

Scale in Metres

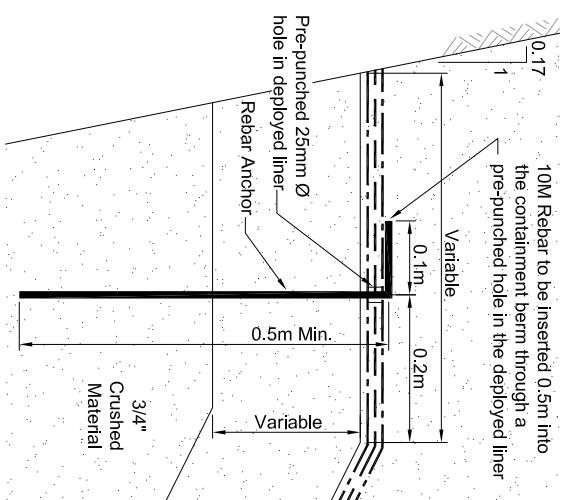


6 **TYPICAL DETAIL 6**

RB-QT-02 TYPICAL FINAL TANK FARM SECTION ALONG BERM

0 0.5 1 1.5 2 2.5

Scale in Metres



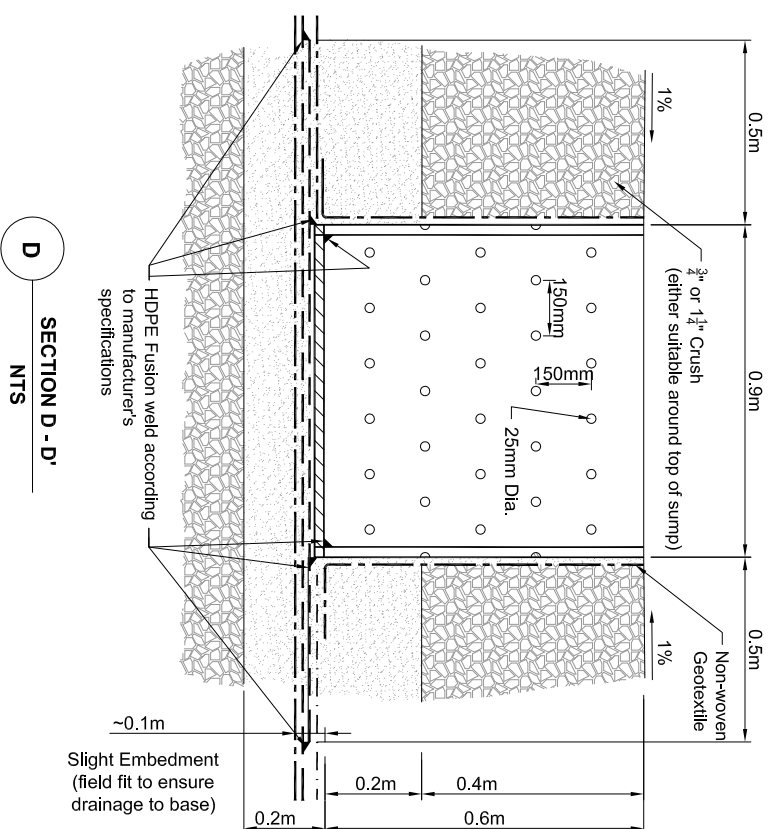
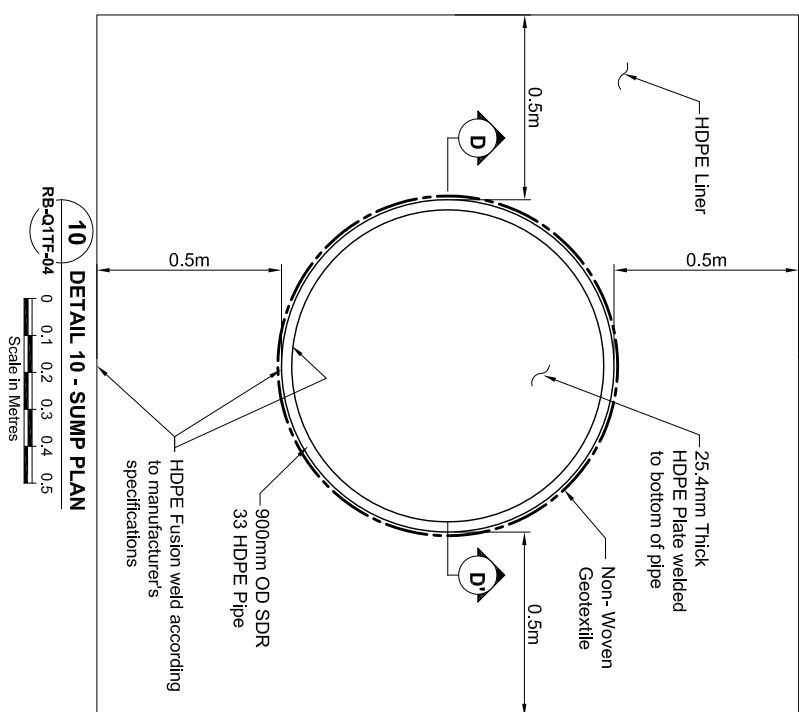
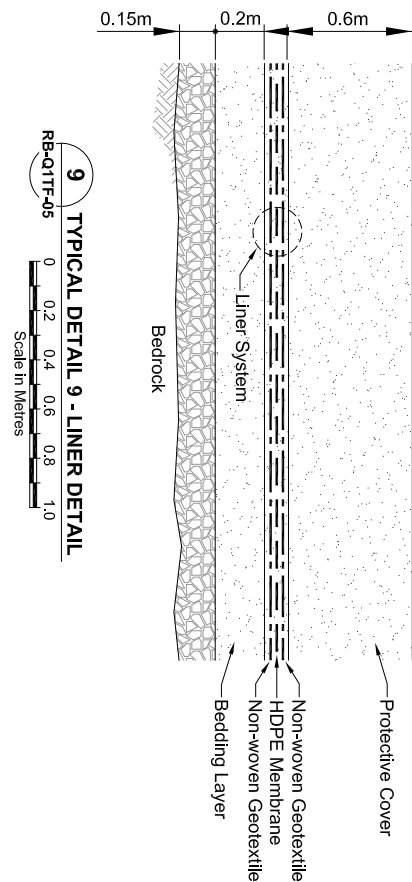
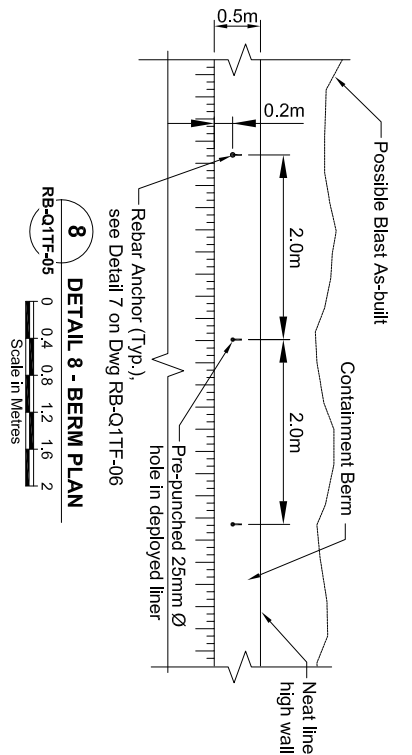
7
-
TYPICAL DETAIL 7 - REBAR

0 0.05 0.1 0.15 0.2 0.25
Scale in Metres

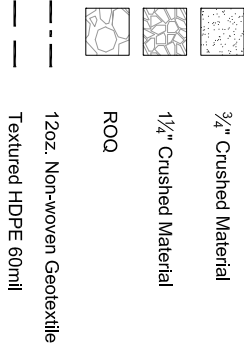
[illegible]

NOTES

1. Soil classification for these works are based on the Unified Soil Classification System (USCS).
2. Snow and ice on construction material must be removed prior to loading for construction use.
3. Due care must be taken when exposing the existing liner system such that the least amount of damage is inflicted. Any damage shall be repaired by appropriate method and testing shall be performed as per industry standards. All damages and repairs shall be surveyed and inspected by the Engineer before backfilling.
4. Due care must be taken when placing fill materials such that no damage occurs to the subgrade and/or liner system. Any damage must be immediately reported to the Engineer.
5. Geotextile shall be 12 oz. non-woven geotextile.
6. Liner shall be 60 mil textured HDPE liner.
7. Surfacing material has to be compacted after placement.
8. Compaction will be a field specification, based on trial compaction tests to be carried out by the Contractor to the satisfaction of the Engineer.
9. It is the Contractor's responsibility to create the construction materials as specified through appropriate crushing. Any deviations must be approved by the Engineer.
10. Construction fill material shall be from approved rock quarries, shall be non-acid generating, free of organic material or similar impurities, as well as snow and ice.
11. Construction fill material will not have to be washed to remove blast residues or fines, unless specifically instructed by the Engineer.
12. 3/4" Finishing material shall be well graded manufactured crush product produced from ROQ material. The screen size shall be no greater than 32mm (1-1/4") but no smaller than 19mm (3/4")
13. The Contractor shall collect samples of the surfacing material directly from the crusher stockpile and submit for laboratory testing including but not limited to grain size distribution, and moisture content at least 1 sample every 8,000m³. The Engineer may conduct additional sampling and testing as deemed necessary.



LEGEND

[illegible]