

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

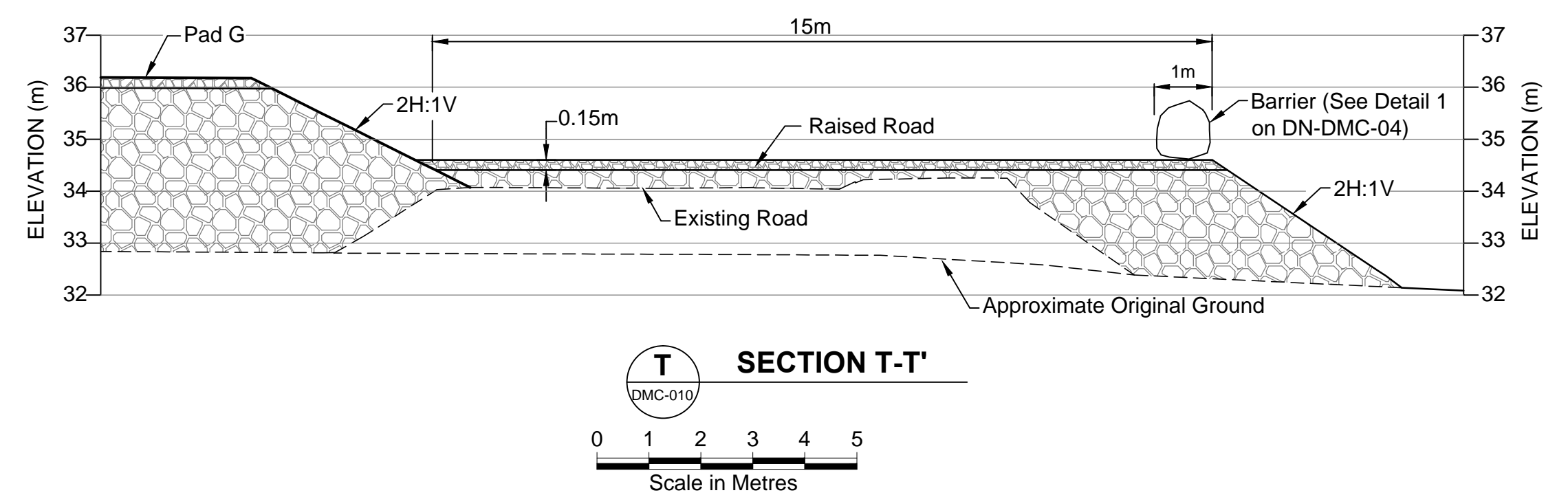
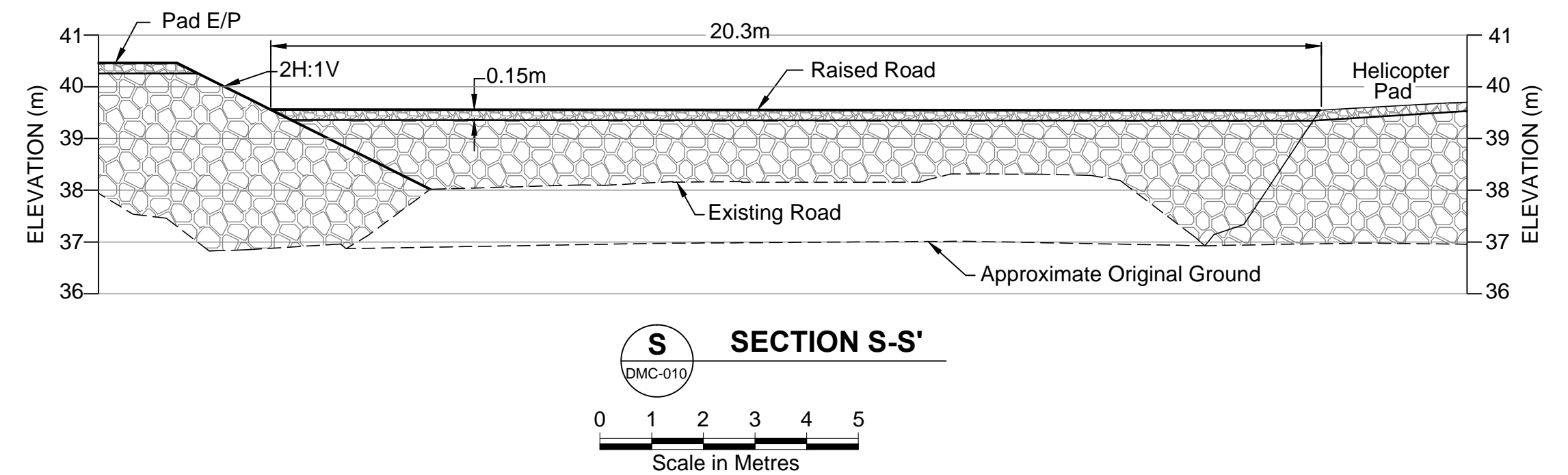
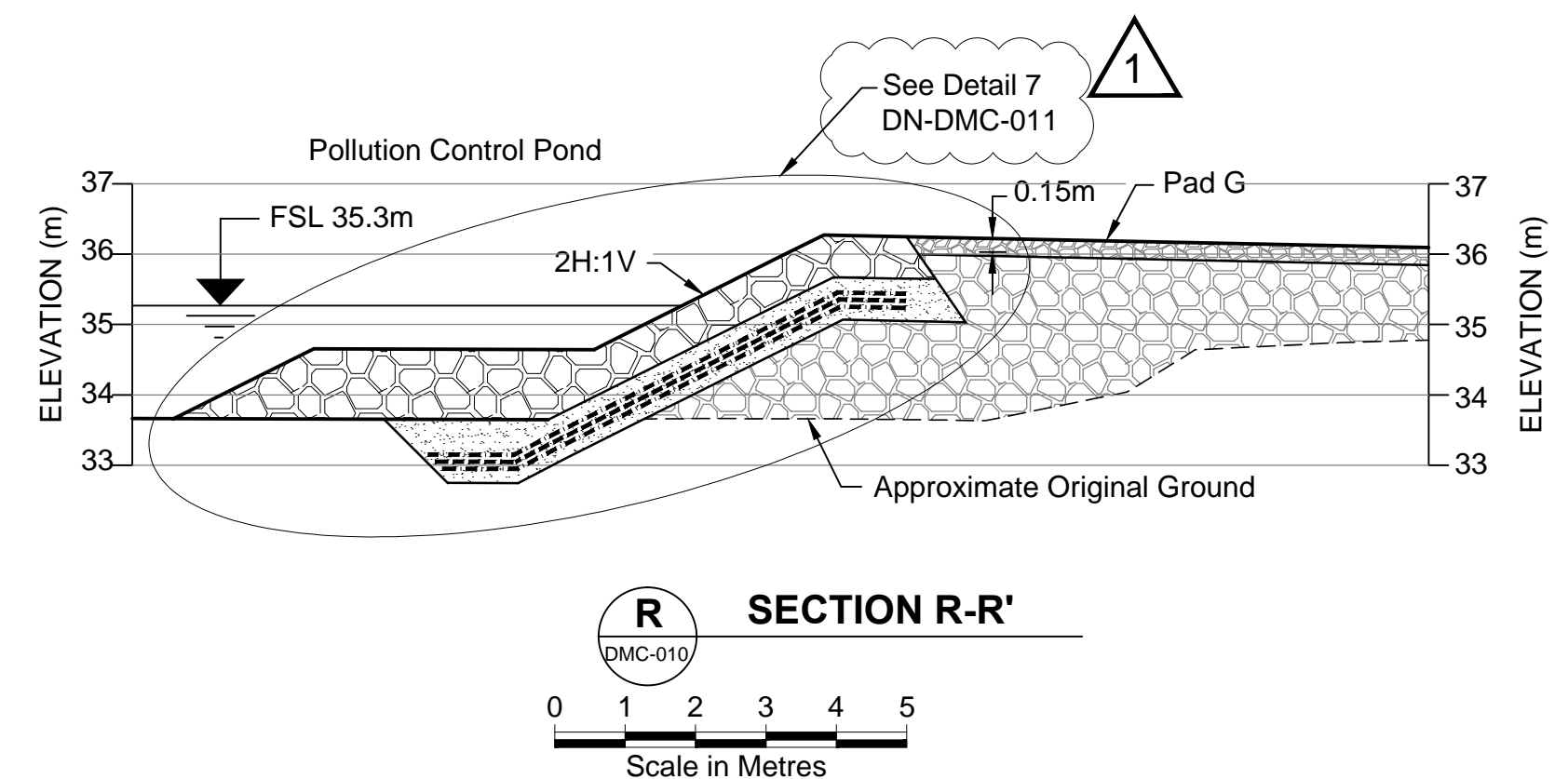
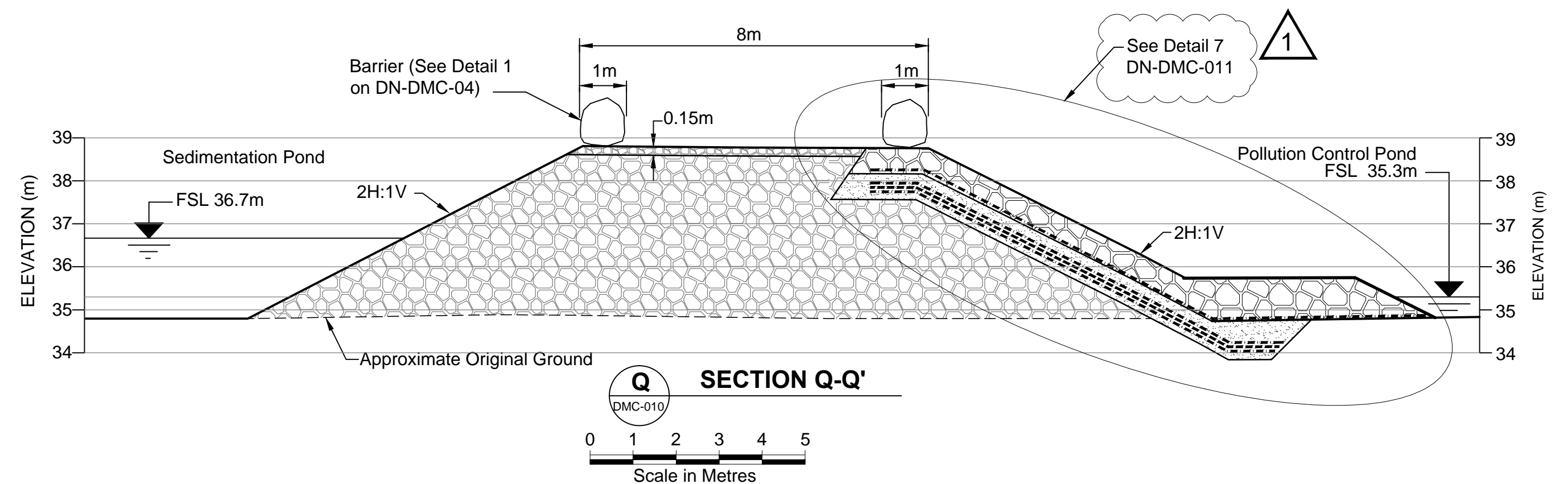
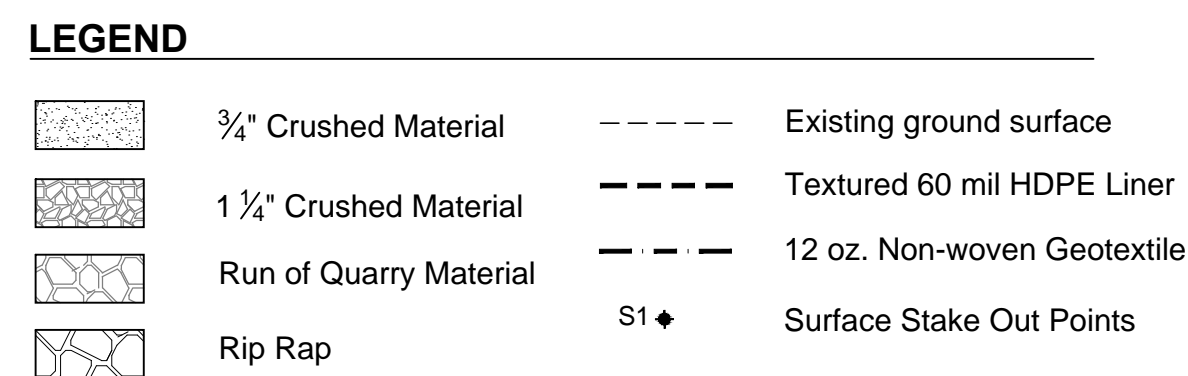
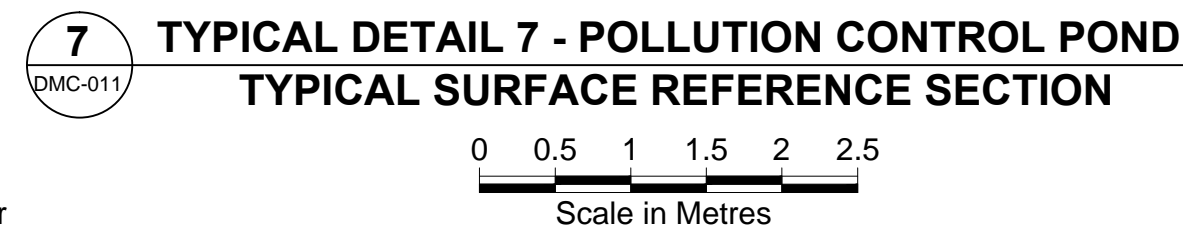
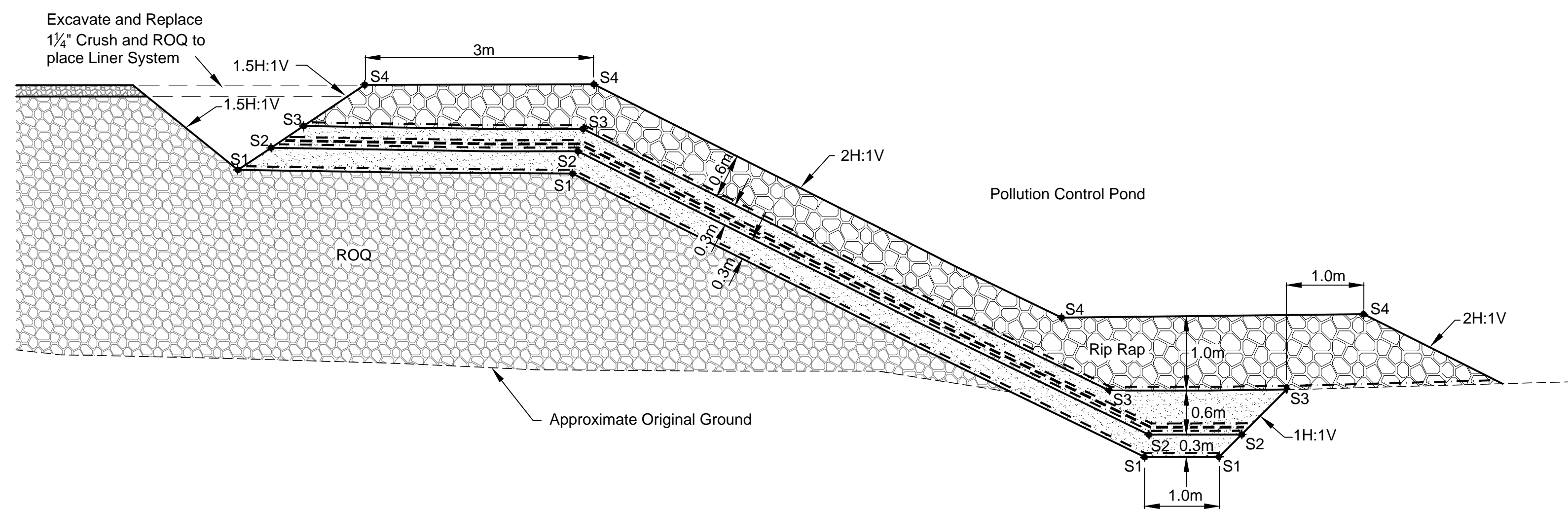
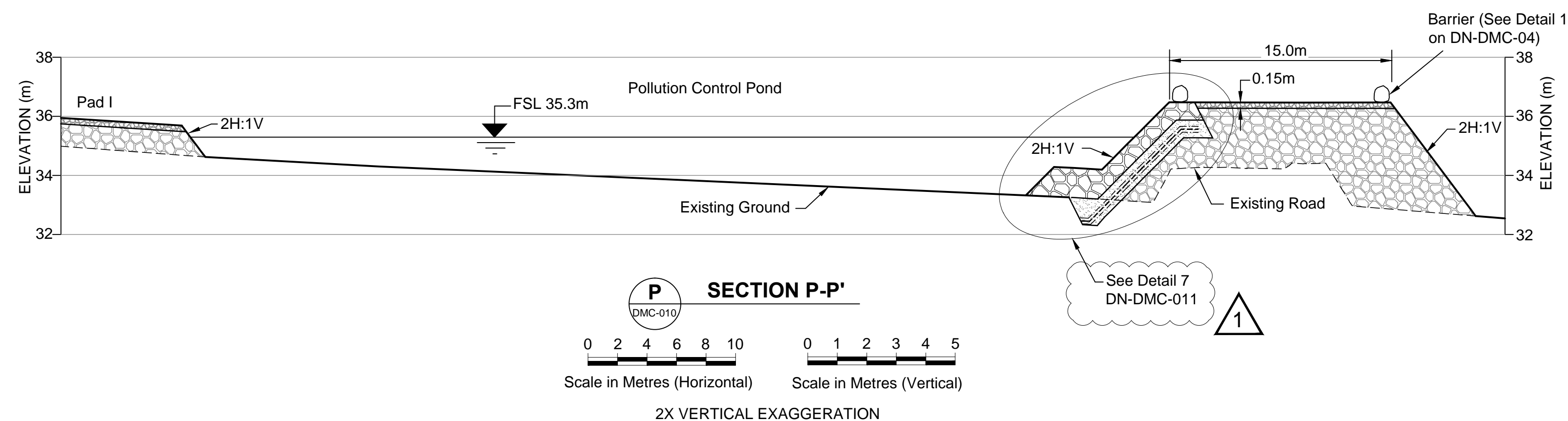
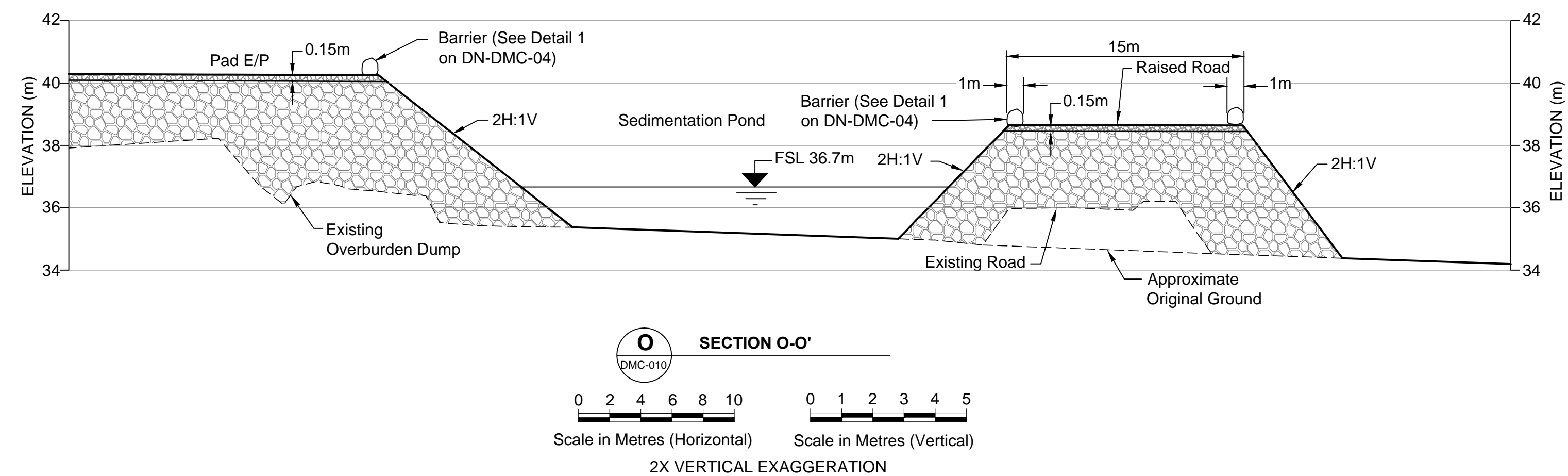
ACTIVE DRAWING STATUS

SRK DWG NUMBER	NEWMONT DWG NUMBER	DRAWING TITLE	REVISION	DATE	STATUS	OLD/REPLACED REVISIONS			
DN-DMC-00	HB+D-CIV-CIV-OND-0039	Engineering Drawings for Doris North Camp Area	5	February 14, 2011	Issued for Construction	Rev. 4, Sept. 29, 2010	Rev. 3, June 30, 2010	Rev. 0, June 24, 2010	Rev. A, June 4, 2010
DN-DMC-01	HB+D-CIV-CIV-OND-0030	Doris North Camp Grading Plan (West Side)	3	June 30, 2010	Issued for Construction	Rev. 2, June 24, 2010	Rev. 1, June 4, 2010	Rev. 0, May 26, 2010	
DN-DMC-02	HB+D-CIV-CIV-OND-0040	Doris North Camp Sections and Details (West Side)	1	June 30, 2010	Issued for Construction	Rev. 0, June 24, 2010	Rev. A, June 4, 2010		
DN-DMC-03	HB+D-CIV-CIV-OND-0041	Doris North Camp Sections and Details (West Side)	1	June 30, 2010	Issued for Construction	Rev. 0, June 24, 2010	Rev. A, June 4, 2010		
DN-DMC-04	HB+D-CIV-CIV-OND-0042	Doris North Camp Sections and Details (West Side)	1	June 30, 2010	Issued for Construction	Rev. 0, June 24, 2010	Rev. A, June 13, 2010		
DN-DMC-05	HB+D-CIV-CIV-OND-0052	Material Specifications (West Side)	1	June 30, 2010	Issued for Construction	Rev. 0, June 24, 2010	Rev. A, June 4, 2010		
DN-DMC-06	HB+D-CIV-CIV-OND-0048	Doris North Camp Grading Plan (East Side)	0	June 24, 2010	Issued for Construction				
DN-DMC-07	HB+D-CIV-CIV-OND-0049	Doris North Camp Sections and Details (East Side)	0	June 24, 2010	Issued for Construction				
DN-DMC-08	HB+D-CIV-CIV-OND-0050	Doris North Camp Sections and Details (East Side)	0	June 24, 2010	Issued for Construction				
DN-DMC-09	HB+D-CIV-CIV-OND-0051	Material Specifications (East Side)	0	June 24, 2010	Issued for Construction				
DN-DMC-010	HB+D-CIV-CIV-OND-0070	Sedimentation and Pollution Control Ponds Grading Plan	0	September 29, 2010	Issued for Construction	Rev. A, July 28, 2010			
DN-DMC-011	HB+D-CIV-CIV-OND-0071	Sedimentation and Pollution Control Ponds Sections	1	February 14, 2011	Issued for Construction	Rev. 0, Sept. 29, 2010	Rev. A, July 28, 2010		
DN-DMC-012	HB+D-CIV-CIV-OND-0072	Float Plane Dock Access Road and Dyke Profiles	0	September 29, 2010	Issued for Construction	Rev. A, July 28, 2010			
DN-DMC-013	HB+D-CIV-CIV-OND-0073	Material Specifications (Sedimentation & Pollution Control Ponds)	1	February 14, 2011	Issued for Construction	Rev. 0, Sept. 29, 2010	Rev. A, July 28, 2010		
DN-DMC-014	HB+D-CIV-CIV-OND-0080	Sedimentation and Pollution Control Ponds Typical Details	0	September 29, 2010	Issued for Construction	Rev. A, July 28, 2010			
DN-DMC-015	HB+D-CIV-CIV-OND-0082	Pad R - Raised Access Ramp	1	August 08, 2010	Issued for Construction				
DN-DMC-016	HB+D-CIV-CIV-OND-0088	Pollution Control Pond Surfaces 1 and 2	0	September 29, 2010	Issued for Construction				
DN-DMC-017	HB+D-CIV-CIV-OND-0089	Pollution Control Pond Surfaces 3 and 4	0	September 29, 2010	Issued for Construction				
DN-DMC-018	HB+D-CIV-CIV-OND-0091	Pad C Expansion	0	September 8, 2010	Issued for Construction				
DN-DMC-019	HB+D-CIV-CIV-OND-0109	Doris North Access Road General Arrangement	0	September 24, 2010	Issued for Construction				
DN-DMC-020	HB+D-CIV-CIV-OND-0110	Doris North Access Road Profiles	0	September 24, 2010	Issued for Construction				
DN-DMC-021	HB+D-CIV-CIV-OND-0111	Doris North Access Road Sections and Details Sheet 1 of 2	0	September 24, 2010	Issued for Construction				
DN-DMC-022	HB+D-CIV-CIV-OND-0112	Doris North Access Road Sections and Details Sheet 2 of 2	0	September 24, 2010	Issued for Construction				
DN-DMC-023	HB+D-CIV-CIV-OND-0113	Material Specifications (Doris North Access Road)	0	September 24, 2010	Issued for Construction				

HOPE BAY MINING LTD.



PROJECT NO: 1CH008.027
ISSUED FOR CONSTRUCTION
Revision 5
February 14, 2011
DN-DMC-00 / HB+D-CIV-CIV-OND-0039

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1	MINOR TEXT EDITS	LW	EMR	14FEB11
0	ISSUED FOR CONSTRUCTION	LW	EMR	29SEP10
A	ISSUED FOR REVIEW	LW	EMR	28JUL10
NO.	DESCRIPTION	CHK'D	APP'D	DATE
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



DESIGN: MK	DRAWN: MDDS	REVIEWED: EMR
CHECKED: LW	APPROVED: EMR	DATE: Feb. 14,
FILE NAME: DN-DMC-010.dwg		

FILE NAME: DN-DMC-010.dwg



HOPE BAY MINING LIMITED

SRK JOB NO.: 1CH008 027 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 18

REVISION NO.

1. Soil classification for these works are based on the Unified Soil Classification System (USCS).
2. On bare tundra surfaces the maximum snow thickness allowed prior to fill placement shall be 102mm (4"). On all other surfaces complete snow removal is required. The Engineer must approve all surfaces prior to placement of any construction material.
3. Snow and ice on construction material must be removed prior to loading for construction use.
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. Maximum lift thickness of ROQ is 1.85m. Staged construction will be required where fill thickness exceeds 1.85m.
8. In areas where staged construction is required, all snow shall be removed and the surface scarified prior to placing the next lift. The Engineer will approve such staged construction.
9. Run of Quarry, and Surfacing material has to be compacted after placement.
10. Compaction will be a field specification, based on trial compaction tests to be carried out by the Contractor to the satisfaction of the Engineer.
11. It is the Contractor's responsibility to create the construction materials as specified through appropriate crushing. Any deviations must be approved by the Engineer.
12. 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.
13. Construction fill material must be free of overburden soils. Such unsuitable material shall be disposed of in a designated on site disposal area as outlined in the Contractors' quarry development plan.
14. Construction fill material will not have to be washed to remove blast residues or fines, unless specifically instructed by the Engineer.
15. Rip Rap shall be clean with no fine grained material and a minimum boulder size of 1000mm.
16. Run of Quarry (ROQ) shall be well-graded, containing sufficient quantities of gravel, sand, and silt sized material. For fill thickness <0.85m the maximum boulder size shall not exceed 500mm. For fill thickness >0.85m the maximum boulder size shall not exceed 900mm.
17. Surfacing material shall be a well-graded manufactured crush product produced from ROQ material. The screen size shall be no greater than 51mm (2") but no smaller than 32mm (1-1/4").
18. 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").
19. 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.

Item	Quantity/Area/Volume	Description
3/4" Finishing Material	Liner Subgrade (0.3 m)	1,100 m ³
	Overliner (0.3 m)	1,100 m ³
	Culvert	60 m ³
	Total	2,260 m ³
Surfacing Material (1-1/4" Crush)	Berm Surfacing	100 m ³
	Road surfacing	1,200 m ³
	Total	1,300 m ³
Run of Quarry Material	Berm	6,600 m ³
	Road	14,000 m ³
	Total	26,600 m ³
Geotextile	Pollution Control Pond	8,200 m ²
	Total	8,200 m ²
Liner	Pollution Control Pond	2,000 m ²
	Total	2,000 m ²
Rip Rap	Spillway Aprons	100 m ³
	Rip Rap over liner	1,600 m ³
	Total	1,700 m ²
Culverts 4 in total		95 m
	Total	95 m
Excavation within Pollution Control Pond		1,100 m ³
	Total	1,100 m ³

POLLUTION CONTROL POND STAKE-OUT TABLE			
ID	Northing	Easting	Elevation (m)
PP-01	7,558,916.02	433,174.34	37.17
PP-02	7,558,971.42	433,124.60	40.27
PP-03	7,558,956.47	433,146.60	36.00
PP-04	7,558,980.84	433,189.66	36.00
PP-05	7,558,983.10	433,198.43	36.00
PP-06	7,558,982.91	433,234.79	36.00
PP-07	7,558,975.09	433,240.71	36.00
PP-08	7,558,921.36	433,241.22	36.00
PP-09	7,558,916.20	433,234.56	36.00
PP-10	7,558,923.81	433,178.43	33.28
PP-11	7,558,955.84	433,149.30	35.07
PP-12	7,558,979.05	433,191.02	34.88
PP-13	7,558,980.76	433,198.49	34.82
PP-14	7,558,980.92	433,233.79	35.00
PP-15	7,558,974.63	433,239.49	35.39
PP-16	7,558,961.93	433,238.83	35.00
PP-17	7,558,947.61	433,236.97	34.00
PP-18	7,558,923.98	433,235.81	33.31
PP-19	7,558,921.73	433,232.66	33.24

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