

Appendix B: As-Built Drawings

Engineering Drawings for the North Dam, Doris North Project, Nunavut, Canada

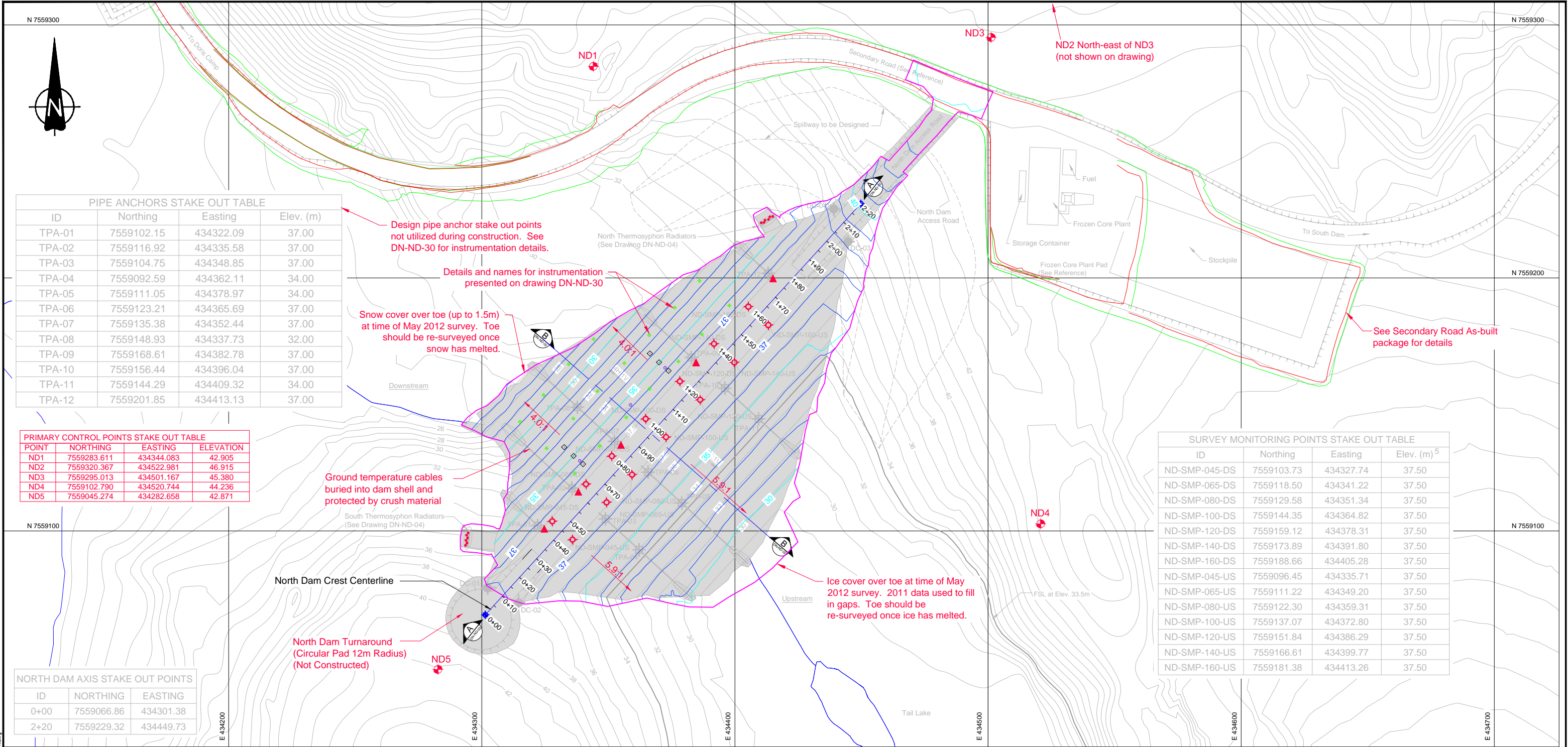
ACTIVE DRAWING STATUS

SRK DWG NUMBER	NEWMONT DWG NUMBER	DRAWING TITLE	REVISION	DATE	STATUS	OLD/REPLACED REVISIONS		
DN-ND-00	HB+T-CIV-CIV-OND-0020	Engineering Drawings for North Dam	AB	July 20, 2012	2012 As-Built	Rev 7, Apr. 2, 2012	Rev. 6, Mar. 19, 2012	Rev. 5, Feb. 24, 2012
DN-ND-01	HB+T-CIV-CIV-OND-0021	North Dam General Arrangement	AB	July 20, 2012	2012 As-Built	Rev 1, Mar. 31, 2011	Rev. 0, Dec. 3, 2010	Rev. A, Oct. 22, 2010
DN-ND-02	HB+T-CIV-CIV-OND-0022	North Dam Geological Section and Typical Cross Section	AB	July 20, 2012	2012 As-Built	Rev 1, Feb. 4, 2011	Rev. 0, Dec. 3, 2010	
DN-ND-03	HB+T-CIV-CIV-OND-0023	North Dam Key Trench Layout & Vertical Ground Temperature Cable Drill Holes	AB	July 20, 2012	2012 As-Built	Rev 1, Dec. 3, 2010	Rev. 0, Dec. 3, 2010	Rev. A, Oct. 22, 2010
DN-ND-04	HB+T-CIV-CIV-OND-0024	North Dam Thermosyphon Evaporator Pipe Layout	AB	July 20, 2012	2012 As-Built	Rev 3, Feb. 16, 2011	Rev. 2, Feb. 9, 2011	Rev. 1, Feb. 4, 2011
DN-ND-05	HB+T-CIV-CIV-OND-0025	North Dam Geosynthetic Clay Liner Lower and Upper Layout	AB	July 20, 2012	2012 As-Built	Rev 2, Feb. 9, 2011	Rev. 1, Feb. 4, 2011	Rev. 0, Dec. 3, 2010
DN-ND-06	HB+T-CIV-CIV-OND-0026	North Dam Core Layout	AB	July 20, 2012	2012 As-Built	Rev 1, Feb. 9, 2011	Rev. 0, Dec. 3, 2010	
DN-ND-07	HB+T-CIV-CIV-OND-0027	North Dam Transition Material Layout	AB	July 20, 2012	2012 As-Built	Rev 1, Feb. 4, 2011	Rev. 0, Dec. 3, 2010	
DN-ND-08	HB+T-CIV-CIV-OND-0028	North Dam Shell Access Road and Turnaround Layout	AB	Sep. 28, 2012	2012 As-Built	Rev 2, Apr. 2, 2012	Rev. 1, Feb. 24, 2012	Rev. 0, Dec. 3, 2010
DN-ND-09	HB+T-CIV-CIV-OND-0029	North Dam Vertical Ground Temperature Cables Layout	AB	July 20, 2012	2012 As-Built	Rev 0, Dec. 3, 2010	Rev. A, Oct. 22, 2010	
DN-ND-10	HB+T-CIV-CIV-OND-0030	North Dam Horizontal Ground Temperature Cable Layout - Top of Liner	AB	July 20, 2012	2012 As-Built	Rev 0, Dec. 3, 2010	Rev. A, Oct. 22, 2010	
DN-ND-11	HB+T-CIV-CIV-OND-0031	North Dam Horizontal Ground Temperature Cable Layout - Middle Core	AB	July 20, 2012	2012 As-Built	Rev 0, Dec. 3, 2010	Rev. A, Oct. 22, 2010	
DN-ND-12	HB+T-CIV-CIV-OND-0032	North Dam Horizontal Ground Temperature Cable Layout - Upper Core	AB	July 20, 2012	2012 As-Built	Rev 1, Feb. 4, 2011	Rev. 0, Dec. 3, 2010	
DN-ND-13	HB+T-CIV-CIV-OND-0033	North Dam Ground Temperature Cables on Layout of Shell	AB	Sep. 28, 2012	2012 As-Built	Rev 0, Dec. 3, 2010	Rev. A, Oct. 22, 2010	
DN-ND-14	HB+T-CIV-CIV-OND-0034	North Dam Ground Temperature Cable Clusters at Chainage 0+40 and 0+60	AB	July 20, 2012	2012 As-Built	Rev 1, Feb. 4, 2011	Rev. 0, Dec. 3, 2010	
DN-ND-15	HB+T-CIV-CIV-OND-0035	North Dam Ground Temperature Cable Clusters at Chainage 0+85 and 1+30	AB	July 20, 2012	2012 As-Built	Rev 1, Feb. 4, 2011	Rev. 0, Dec. 3, 2010	
DN-ND-16	HB+T-CIV-CIV-OND-0036	North Dam Ground Temperature Cable Clusters at Chainage 1+75	AB	July 20, 2012	2012 As-Built	Rev 3, Apr. 2, 2012	Rev. 2, Mar. 31, 2011	Rev. 1, Feb. 4, 2011
DN-ND-17	HB+T-CIV-CIV-OND-0037	North Dam Sections 0+10 to 0+40	AB	July 20, 2012	2012 As-Built	Rev 0, Dec. 3, 2010	Rev. A, Oct. 22, 2010	
DN-ND-18	HB+T-CIV-CIV-OND-0038	North Dam Sections 0+45 to 0+55	AB	July 20, 2012	2012 As-Built	Rev 0, Dec. 3, 2010	Rev. A, Oct. 22, 2010	
DN-ND-19	HB+T-CIV-CIV-OND-0039	North Dam Sections 0+60 to 0+70	AB	July 20, 2012	2012 As-Built	Rev 0, Dec. 3, 2010	Rev. A, Oct. 22, 2010	
DN-ND-20	HB+T-CIV-CIV-OND-0040	North Dam Sections 0+75 to 0+85	AB	July 20, 2012	2012 As-Built	Rev 0, Dec. 3, 2010	Rev. A, Oct. 22, 2010	
DN-ND-21	HB+T-CIV-CIV-OND-0041	North Dam Sections 0+90 to 1+00	AB	July 20, 2012	2012 As-Built	Rev 0, Dec. 3, 2010	Rev. A, Oct. 22, 2010	
DN-ND-22	HB+T-CIV-CIV-OND-0042	North Dam Sections 1+05 to 1+15	AB	July 20, 2012	2012 As-Built	Rev 0, Dec. 3, 2010	Rev. A, Oct. 22, 2010	
DN-ND-23	HB+T-CIV-CIV-OND-0043	North Dam Sections 1+20 to 1+30	AB	July 20, 2012	2012 As-Built	Rev 0, Dec. 3, 2010	Rev. A, Oct. 22, 2010	
DN-ND-24	HB+T-CIV-CIV-OND-0044	North Dam Sections 1+35 to 1+55	AB	July 20, 2012	2012 As-Built	Rev 0, Dec. 3, 2010	Rev. A, Oct. 22, 2010	
DN-ND-25	HB+T-CIV-CIV-OND-0045	North Dam Sections 1+60 to 1+85	AB	July 20, 2012	2012 As-Built	Rev 0, Dec. 3, 2010	Rev. A, Oct. 22, 2010	
DN-ND-26	HB+T-CIV-CIV-OND-0046	North Dam Sections 1+90 to 2+10	AB	July 20, 2012	2012 As-Built	Rev 0, Dec. 3, 2010	Rev. A, Oct. 22, 2010	
DN-ND-27	HB+T-CIV-CIV-OND-0047	North Dam Thermosyphon Details	AB	Sep. 28, 2012	2012 As-Built	Rev 2, Feb. 9, 2011	Rev. 1, Feb. 4, 2011	Rev. 0, Dec. 3, 2010
DN-ND-28	HB+T-CIV-CIV-OND-0048	North Dam Stake Out Coordinates for Instrument Clusters	0	Dec. 3, 2010	Issued for Construction			
DN-ND-29	HB+T-CIV-CIV-OND-0049	North Dam Percolation Test Borehole Locations	AB	July 20, 2012	2012 As-Built	Rev 2, Feb. 4, 2011	Rev. 0, Jan. 20, 2011	
DN-ND-30	HB+T-CIV-CIV-OND-0061	North Dam Additional Instrumentation Layout	AB	July 20, 2012	2012 As-Built	Rev 0, Feb. 24, 2012	Rev. A, Feb. 10, 2012	
DN-ND-31	HB+T-CIV-CIV-OND-0062	North Dam Typical Additional Instrumentation Section and Details	AB	July 20, 2012	2012 As-Built	Rev 1, Mar. 19, 2012	Rev. 0, Feb. 24, 2012	Rev. A, Feb. 10, 2012
DN-ND-32	HB+T-CIV-CIV-OND-0063	North Dam Ground Temperature Cable Details	0	Mar. 30, 2012	Issued for Construction			

HOPE BAY MINING LTD.



PROJECT NO: 1CH008.058
Revision AB
September 28, 2012
DN-ND-00 / HB+T-CIV-CIV-OND-0020



PIPE ANCHORS STAKE OUT TABLE			
ID	Northing	Easting	Elev. (m)
TPA-01	7559102.15	434322.09	37.00
TPA-02	7559116.92	434335.58	37.00
TPA-03	7559104.75	434348.85	37.00
TPA-04	7559092.59	434362.11	34.00
TPA-05	7559111.05	434378.97	34.00
TPA-06	7559123.21	434365.69	37.00
TPA-07	7559135.38	434352.44	37.00
TPA-08	7559148.93	434337.73	32.00
TPA-09	7559168.61	434382.78	37.00
TPA-10	7559156.44	434396.04	37.00
TPA-11	7559144.29	434409.32	34.00
TPA-12	7559201.85	434413.13	37.00

PRIMARY CONTROL POINTS STAKE OUT TABLE			
POINT	NORTHING	EASTING	ELEVATION
ND1	7559283.611	434344.083	42.905
ND2	7559320.367	434522.981	46.915
ND3	7559295.013	434501.167	45.380
ND4	7559102.790	434520.744	44.236
ND5	7559045.274	434282.658	42.871

SURVEY MONITORING POINTS STAKE OUT TABLE			
ID	Northing	Easting	Elev. (m) ⁵
ND-SMP-045-DS	7559103.73	434327.74	37.50
ND-SMP-065-DS	7559118.50	434341.22	37.50
ND-SMP-080-DS	7559129.58	434351.34	37.50
ND-SMP-100-DS	7559144.35	434364.82	37.50
ND-SMP-120-DS	7559159.12	434378.31	37.50
ND-SMP-140-DS	7559173.89	434391.80	37.50
ND-SMP-160-DS	7559188.66	434405.28	37.50
ND-SMP-045-US	7559096.45	434335.71	37.50
ND-SMP-065-US	7559111.22	434349.20	37.50
ND-SMP-080-US	7559122.30	434359.31	37.50
ND-SMP-100-US	7559137.07	434372.80	37.50
ND-SMP-120-US	7559151.84	434386.29	37.50
ND-SMP-140-US	7559166.61	434399.77	37.50
ND-SMP-160-US	7559181.38	434413.26	37.50

NORTH DAM AXIS STAKE OUT POINTS		
ID	NORTHING	EASTING
0+00	7559066.86	434301.38
2+20	7559229.32	434449.73

NORTH DAM CREST STAKE OUT POINTS			
ID	NORTHING	EASTING	ELEV.(m)
DC-01	7559077.49	434302.29	37.50
DC-02	7559071.63	434314.54	37.50
DC-03	7559214.31	434444.67	37.50
DC-04	7559227.29	434439.07	37.50

LEGEND

- Survey Monitoring Point
- Ground Temperature Cable
- Pipe Anchor
- North Dam Crest Stake Out Points
- North Dam Axis Stake Out Points
- Road Crest As-built
- Road Toe As-built
- Survey Monitoring Point As-built
- Data Logger and Battery Support Post As-built
- Primary Control Point As-built
- Deep Settlement Point As-built
- Surface Survey Point As-built
- Inclinometer Location As-built
- Major Contour As-built
- Minor Contour As-built
- Final Surface Extents As-built
- Thermosyphon Radiator As-built

REFERENCE

For detailed design of the Frozen Core Plant Pad and Secondary Road refer to Secondary Road from Doris Creek Bridge to South Dam 0+000 to 0+950, Doris North Project, Nunavut, Canada - TL-RDS-04 [HB+T-CIV-CIV-OND-0005] - Rev. 1 - Issued for Construction, Doris North Project, Nunavut, Canada. Sept 24, 2010 and Material Specifications, North Project, Nunavut, Canada - TL-RDS-11 [HB+T-CIV-CIV-OND-0012] - Rev. 1 - Issued for Construction, Doris North Project, Nunavut, Canada. Sept 24, 2010.

NOTES

- Topographic contour data for the terrain model was provided by the Contractor.
- The co-ordinate system is UTM NAD 83, Zone 13.
- 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.
- For details of survey monitoring points and ground temperature cables see Dwg DN-ND-16.
- Stake out elevation in table is the design dam crest.

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DRAWING NO.

DRAWING TITLE

DRAWING NO.

DRAWING TITLE

REFERENCE DRAWINGS

AB 2012 AS-BUILT

1 UPDATED STAKE OUT TABLES

0 ISSUED FOR CONSTRUCTION

A ISSUED FOR REVIEW

NO. DESCRIPTION

CH'K'D

APP'D

DATE

AB

2012 AS-BUILT

JBK

LW

20JUL12

1

UPDATED STAKE OUT TABLES

LW

EMR

31MAR11

0

ISSUED FOR CONSTRUCTION

LW

EMR

03DEC10

A

ISSUED FOR REVIEW

LW

EMR

22OCT10

PROFESSIONAL ENGINEER'S STAMP

FILE NAME: DN-ND-01.dwg

DESIGN: EMR

DRAWN: VY/LR/NV/DC

REVIEWED: LW

CHECKED: LW/JBK/MMM

APPROVED: EMR

DATE: July 20, 2012

HOPE BAY MINING LTD.

SRK JOB NO.:1CH008,027/058

SRK DWG NO.: DN-ND-01

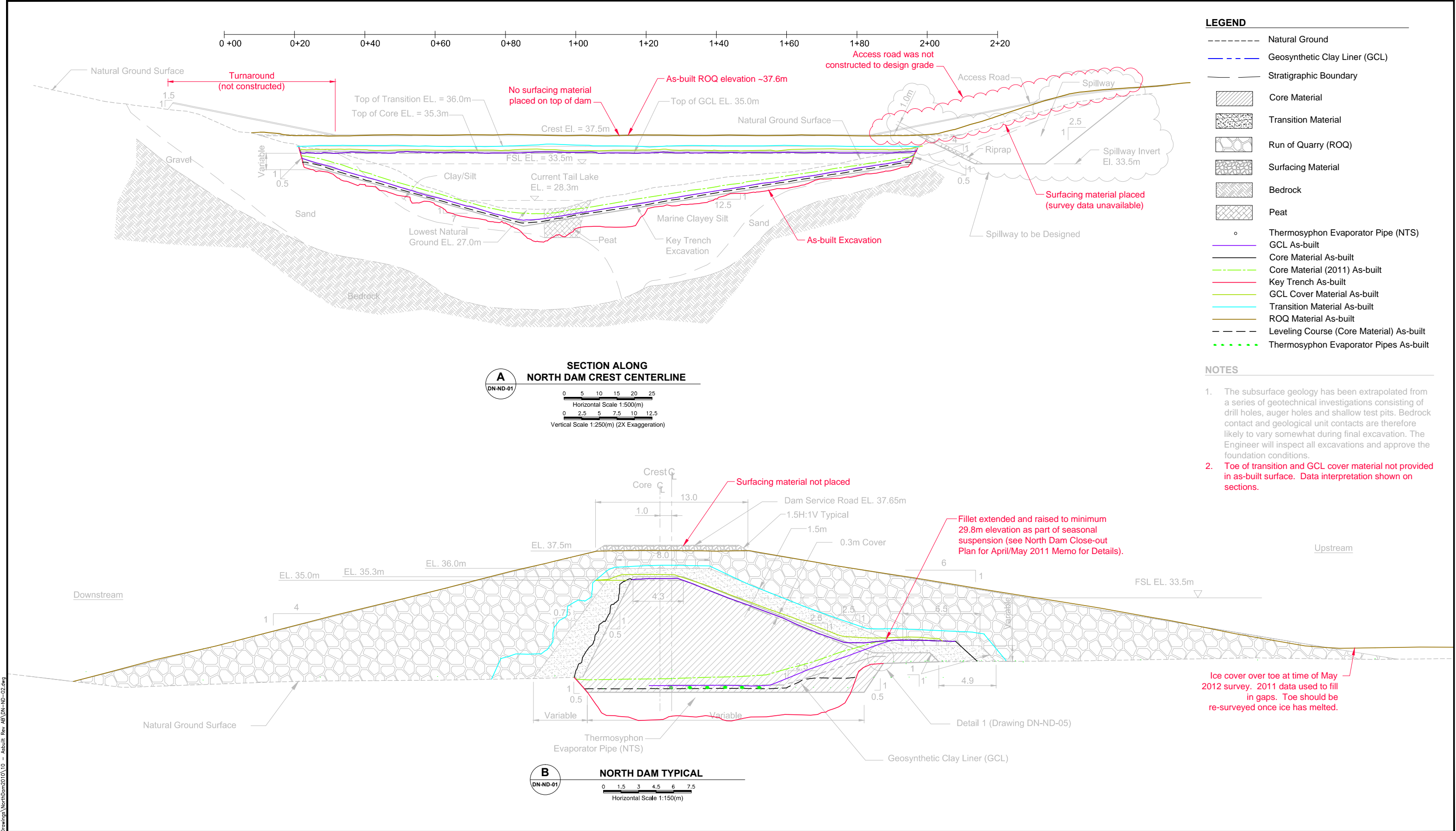
Doris North Project

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NEWMONT DRAWING NO. HB+T-CIV-CIV-OND-0021

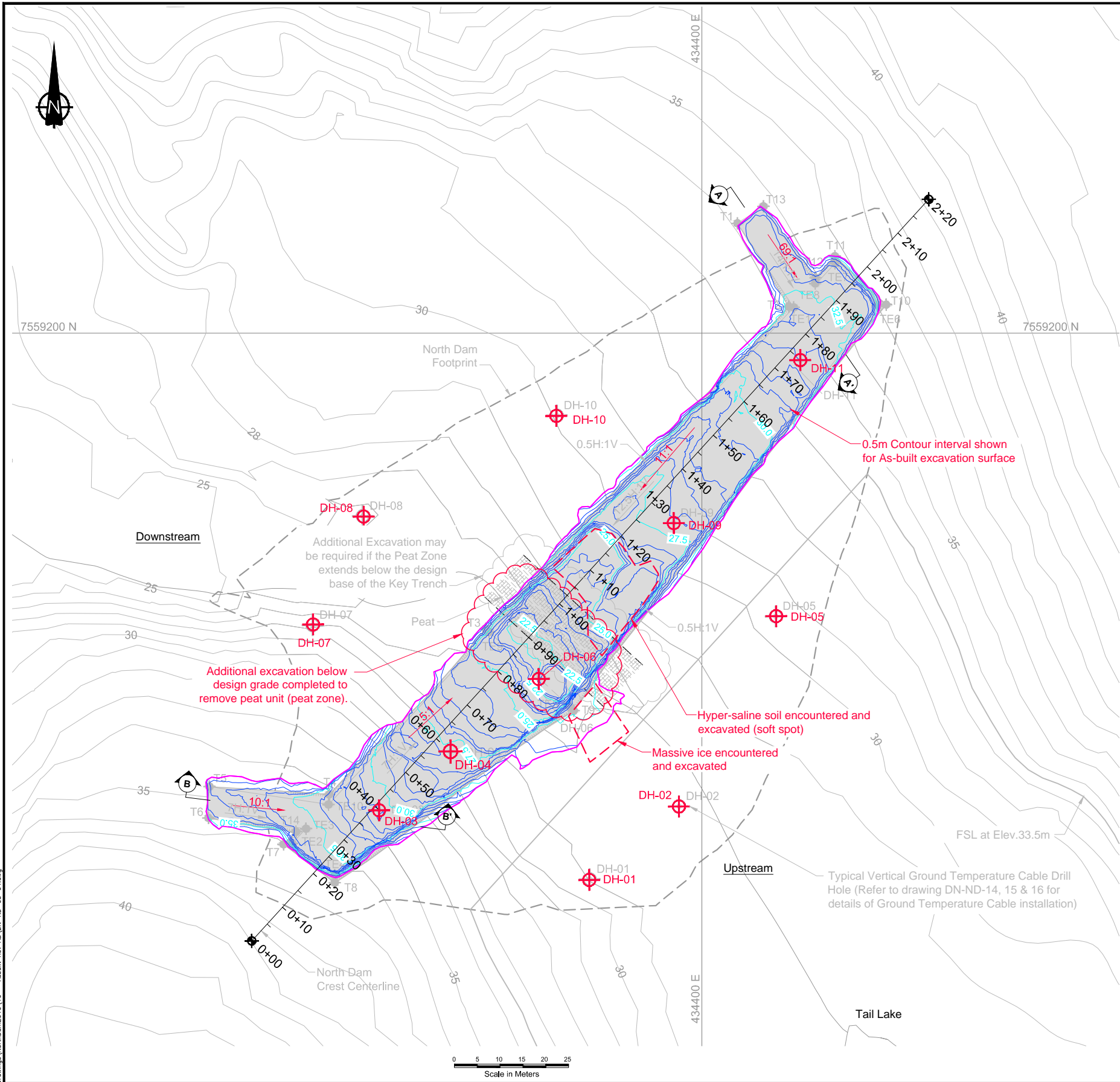
SHEET 2 OF 29

REVISION NO. AB



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								DESIGN: EMR DRAWN: VV/LR/NV/DC REVIEWED: LW				DRAWING TITLE: North Dam Geological Section and Typical Cross Section							
								CHECKED: LW/JBK APPROVED: EMR DATE: July 20, 2012				HOPE BAY MINING LTD.				NEWMONT DRAWING NO. HB+T-CIV-CIV-OND-0022			
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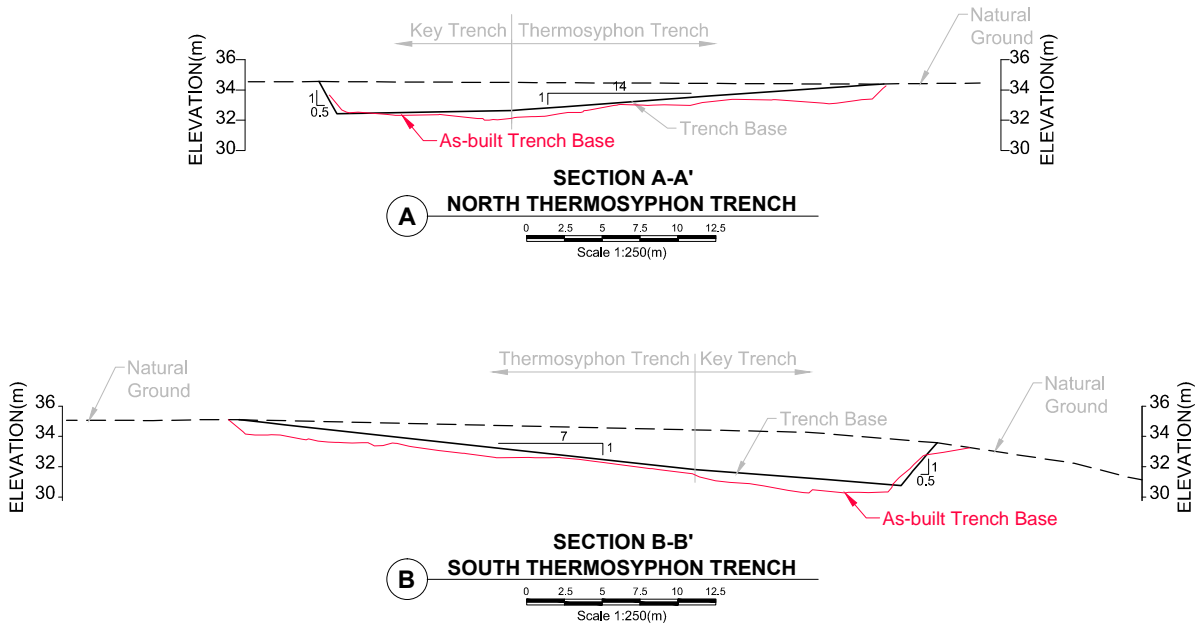


KEY TRENCH STAKE OUT POINTS			
Key Trench Crest			
ID	Easting	Northing	Elev. (m)
T1	434407.80	7559224.05	34.11
T2	434419.06	7559205.81	34.15
T3	434352.63	7559135.23	26.73
T4	434318.35	7559098.95	34.25
T5	434292.11	7559100.66	34.67
T6	434291.88	7559093.81	35.60
T7	434308.35	7559088.04	36.04
T8	434319.57	7559079.60	36.18
T9	434371.92	7559117.30	27.91
T10	434440.40	7559206.22	36.29
T11	434429.16	7559216.85	35.68
T12	434424.92	7559212.13	34.93
T13	434413.52	7559227.78	34.74
T14	434311.09	7559090.78	35.33
Key Trench Toe			
TE1	434420.15	7559205.64	32.44
TE2	434310.25	7559088.21	33.50
TE3	434313.28	7559091.46	32.88
TE4	434319.58	7559081.26	33.33
TE5	434370.77	7559118.48	24.64
TE6	434438.54	7559206.10	33.50
TE7	434429.19	7559215.28	33.50
TE8	434424.84	7559210.90	33.37
TE9	434353.39	7559134.52	24.64
TE10	434318.21	7559096.76	31.86

AS-BUILT VERTICAL GROUND TEMPERATURE CABLE DRILL HOLE STAKE OUT POINTS			
ID	Northing	Easting	Elev. (m)
DH-01	7559080.20	434375.33	29.28
DH-02	7559096.30	434394.99	28.47
DH-03	7559095.47	434329.30	31.26
DH-04	7559108.38	434344.94	28.45
DH-05	7559138.01	434416.31	30.25
DH-06	7559124.25	434364.27	25.15
DH-07	7559136.20	434314.83	27.99
DH-08	7559159.81	434325.92	26.05
DH-09	7559158.40	434393.86	28.38
DH-10	7559181.87	434368.11	30.05
DH-11	7559194.11	434421.58	31.97

- NOTES**
- The final key trench extent and depth will be determined in the field by the Engineer. Volume presented are approximate.

NORTH DAM QUANTITIES		
Item	Unit	Quantity
Key Trench Excavation (Design)	m ³	7,700
Key Trench Excavation As-built	m ³	9,800

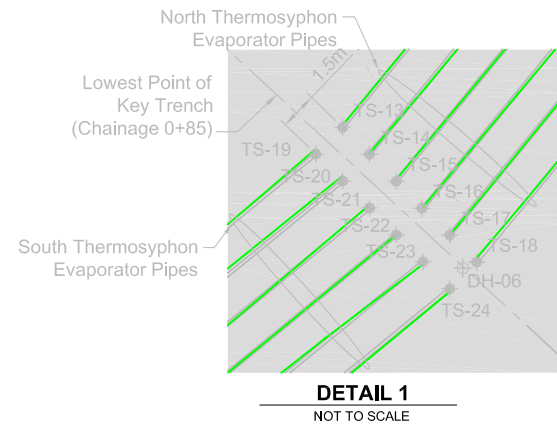
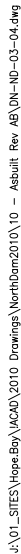


- LEGEND**
- Key Trench Excavation Major Contour As-built
 - Key Trench Excavation Minor Contour As-built
 - Extents of Key Trench Excavation As-built

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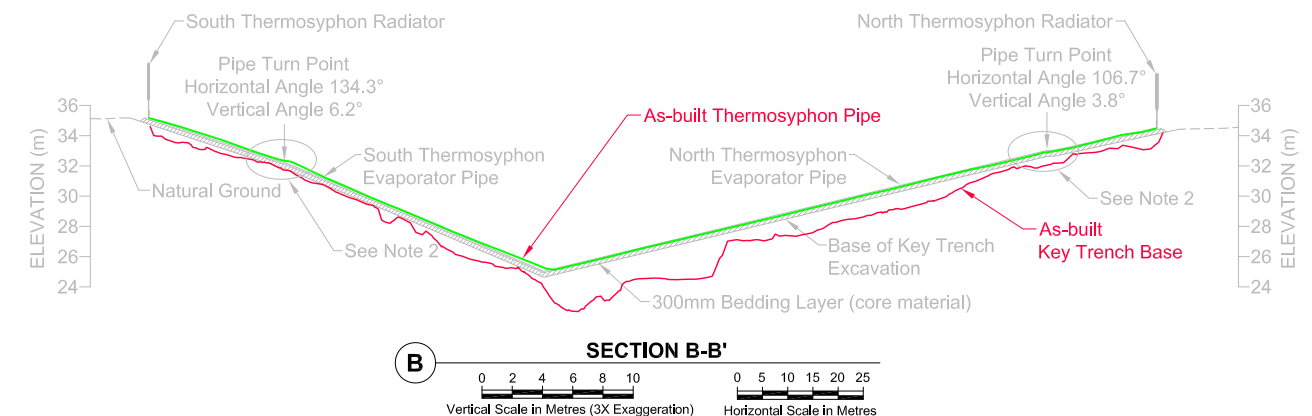
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								REVIEWED: LW DATE: July 20, 2012				HOPE BAY MINING LTD.			
												DRAWING TITLE: North Dam Key Trench Layout & Vertical Ground Temperature Cable Drill Holes			
												NEWMONT DRAWING NO. HB+T-CIV-CIV-OND-0023			
												SHEET 4 OF 29			
												REVISION NO. AB			

1. Field fit to ensure core material cover over evaporator pipe before GCL placement. Lower liner will drape/cover over evaporator pipes.
2. Bedding layer (core material) to be graded towards evaporator pipe turn point. Bedding layer (core material) varies from 300 to 500mm.



BEDDING LAYER STAKE OUT POINTS			
ID	NORTHING	EASTING	ELEV. (m)
CB-01	7559215.50	434429.19	33.81
CB-02	7559206.11	43438.71	33.77
CB-03	7559118.37	434370.89	24.97
CB-04	7559081.16	434319.58	33.65
CB-05	7559088.19	434310.00	33.83
CB-06	7559091.34	434312.94	33.62
CB-07	7559089.72	434327.67	32.01
CB-08	7559097.78	434318.98	31.99
CB-09	7559136.13	434354.70	25.10
CB-10	7559205.05	434420.35	32.71
CB-11	7559205.65	434428.58	33.19
CB-12	7559211.00	434424.97	33.68

NORTH DAM QUANTITIES		
Item	Unit	Quantity
300mm Bedding Layer (core material)	m ³	1,066
Thermosyphon Evaporator Pipes	m	1,260
Leveling Course As-built (core material)	m³	5,070

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unless stamped and signed with original
and recorded on a Distribution Register.



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CHECKED:	LW/JBK/MMM	APPROVED:	EMR	DATE:	July 20, 2012
FILE NAME:	DN-ND-03-04.dwg				



NEWMONT™
NORTH AMERICA

HOPE BAY MINING LTD.

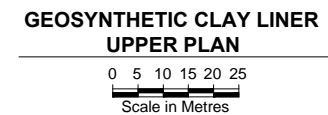
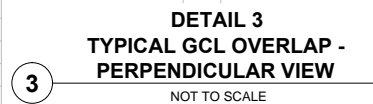
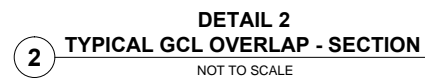
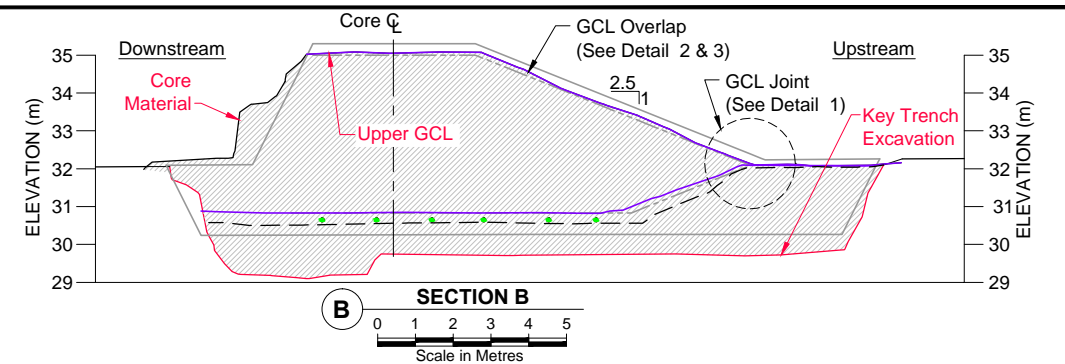
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Doris North Project

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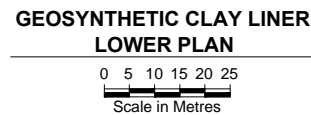
North Dam
Thermosyphon Evaporator Pipe Layout

NEWMONT DRAWING NO. HB+T-CIV-CIV-OND-0024	SHEET 5 OF 29	REVISION NO. AB
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NOTE: As-built liner quantities do not account for patches or overlaps.

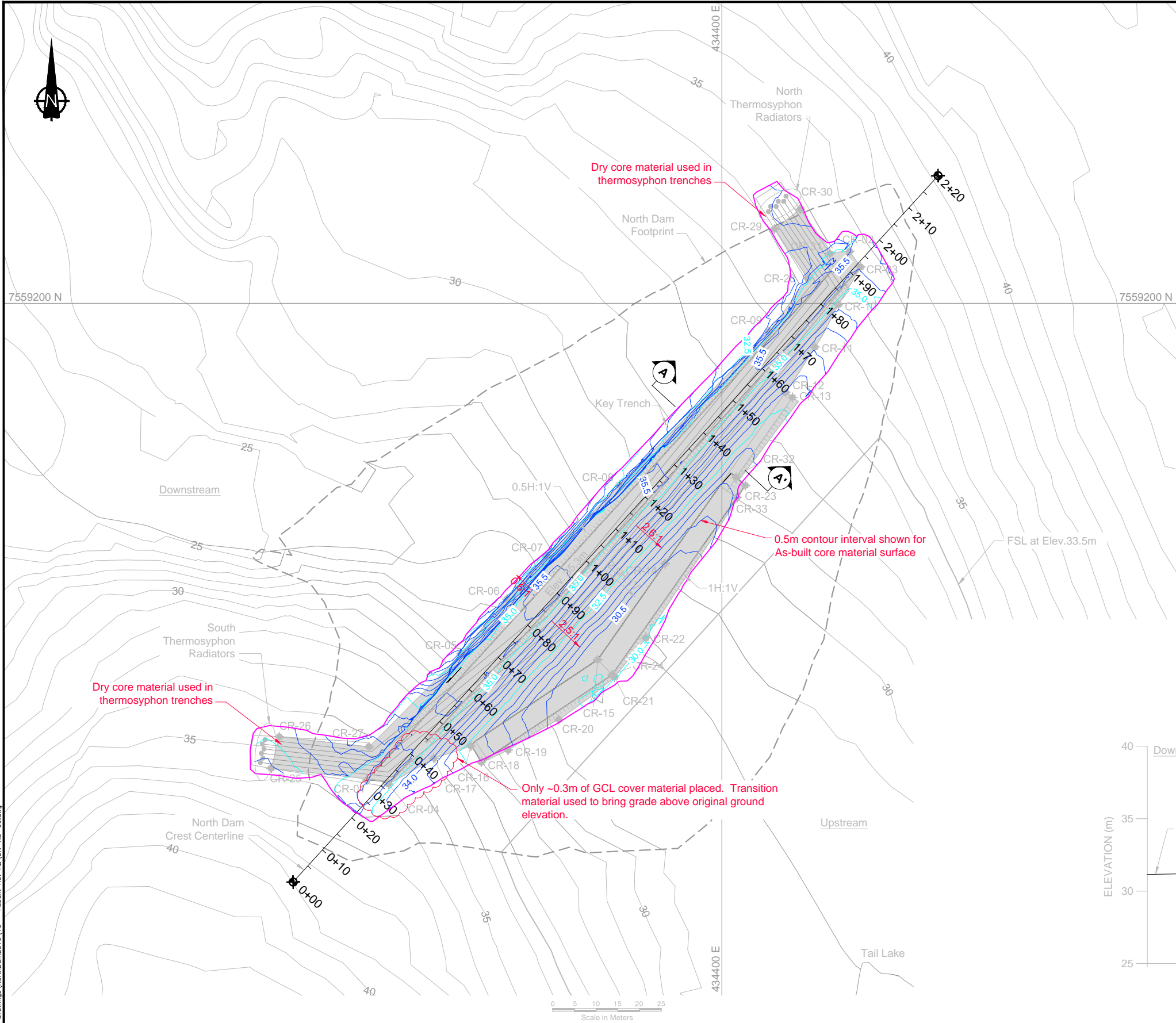
UPPER GCL LINER STAKE OUT POINTS			
ID	NORTHING	EASTING	Elev. (m)
ULR-01	7559214.16	434431.41	35.00
ULR-02	7559211.14	434434.48	35.00
ULR-03	7559209.40	434435.66	34.18
ULR-04	7559208.68	434436.38	34.17
ULR-05	7559117.26	434372.13	28.50
ULR-06	7559117.99	434371.42	28.50
ULR-07	7559081.44	434318.33	34.71
ULR-08	7559082.06	434317.46	34.75
ULR-09	7559082.35	434316.87	35.00
ULR-10	7559084.92	434313.41	35.00



LOWER GCL LINER STAKE OUT POINTS			
ID	NORTHING	EASTING	Elev. (m)
LLR-01	7559215.72	434429.18	34.11
LLR-02	7559130.18	434358.87	25.28
LLR-03	7559095.64	434316.75	32.72
LLR-04	7559088.17	434309.75	34.17
LLR-05	7559083.45	434316.09	34.05
LLR-06	7559123.78	434365.26	25.25
LLR-07	7559209.41	434435.62	34.09
LLR-08	7559208.68	434436.38	34.17
LLR-09	7559117.26	434372.13	28.50
LLR-10	7559117.99	434371.42	28.50
LLR-11	7559081.44	434318.33	34.71
LLR-12	7559082.06	434317.46	34.75

	Geosynthetic Clay Liner (Section View)		Geosynthetic Clay Liner (Plan View)
	Thermosyphon Evaporator Pipe As-built		Core Material
	GCL As-built (Section View)		Bentonite Powder
	Core Material As-built (Section View)		Liner Panels As-built (Plan View)
	Key Trench As-built (Section View)		Liner Panel Patches As-built (Plan View)
	Leveling Course (Core Material) As-built		

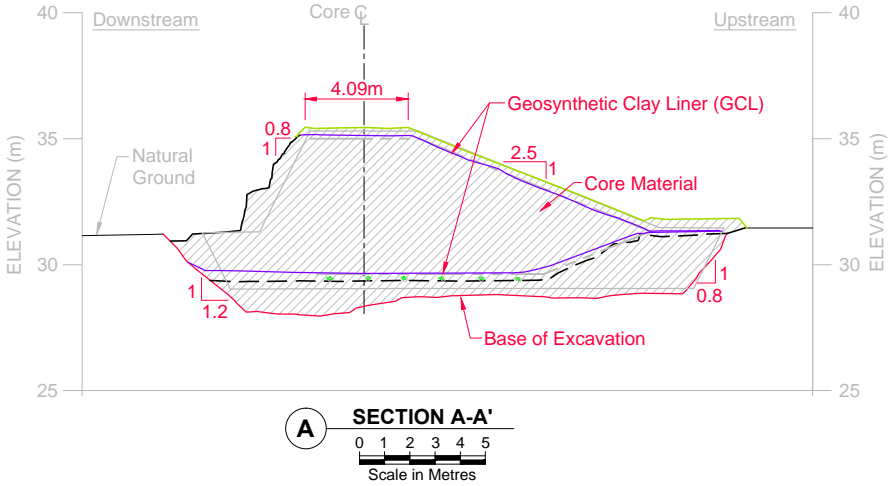
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- LEGEND**
- Natural Ground
 - Geosynthetic Clay Liner (GCL)
 - Core Material
 - Grey Shading for Plan View
 - Core Material Major Contour As-built
 - Core Material Minor Contour As-built
 - Core Material Extents As-built
 - GCL As-built (Section View)
 - Core Material As-built (Section View)
 - Levelling Course As-built (Section View)
 - Key Trench As-built (Section View)
 - GCL Cover Material As-built (Section View)
 - Thermosyphon Evaporator Pipes As-built

NORTH DAM CORE STAKE OUT POINTS			
ID	NORTHING	EASTING	ELEV.(m)
CR-01	7559090.34	434318.35	35.30
CR-02	7559211.93	434429.37	35.30
CR-03	7559208.33	434431.91	35.30
CR-04	7559089.37	434323.29	35.30
CR-05	7559119.38	434340.05	28.17
CR-06	7559131.93	434350.59	26.83
CR-07	7559141.90	434359.69	26.83
CR-08	7559158.14	434376.43	29.63
CR-09	7559193.50	434410.85	32.80
CR-10	7559199.67	434426.81	34.47
CR-11	7559189.91	434421.40	33.44
CR-12	7559179.49	434414.64	32.62
CR-13	7559178.36	434416.26	32.62
CR-14	7559140.09	434386.94	30.18
CR-15	7559117.99	434371.42	28.80
CR-16	7559098.15	434342.26	32.06
CR-17	7559095.31	434333.73	33.82
CR-18	7559094.44	434344.65	32.06
CR-19	7559097.23	434350.80	30.48
CR-20	7559104.21	434362.53	28.50
CR-21	7559113.98	434375.33	28.04
CR-22	7559123.01	434382.52	27.89
CR-23	7559158.09	434405.41	31.29
CR-24	7559114.54	434374.79	28.80
CR-25	7559093.02	434296.31	35.71
CR-26	7559100.28	434298.19	34.60
CR-27	7559097.95	434318.84	32.33
CR-28	7559205.71	434419.74	33.10
CR-29	7559217.06	434412.13	34.10
CR-30	7559221.63	434418.01	34.83
CR-31	7559211.40	434424.87	33.99
CR-32	7559159.94	434403.27	31.48
CR-33	7559155.28	434403.43	31.29

NORTH DAM QUANTITIES		
Item	Unit	Quantity
Total Core Material (excluding 300mm bedding layer(core material))	m³	14,720
Total Core Material As-built (includes levelling course)	m³	14,630



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				1	MINOR TEXT EDITS	LW	EMR	04FEB11
				0	ISSUED FOR CONSTRUCTION	LW	EMR	03DEC10
				A	ISSUED FOR REVIEW	LW	EMR	22OCT10

PROFESSIONAL ENGINEER'S STAMP

DESIGN: EMR

CHECKED: LW/GBK/MMM

FILE NAME: DN-ND-06.dwg

DRAWN: VV/LR/NV/DC

APPROVED: EMR

REVIEWED: LW

DATE: July 20, 2012

HOPE BAY MINING LTD.

SRK JOB NO.:1CH008,027/058

SRK DWG NO.: DN-ND-06

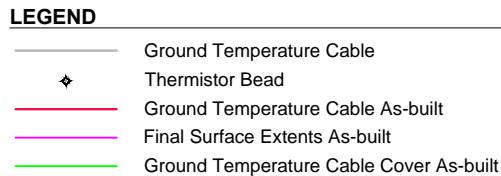
Doris North Project

DRAWING TITLE:
North Dam
Core Layout

NEWMONT DRAWING NO.
HB+T-CIV-CIV-OND-0026

SHEET
7 OF 29

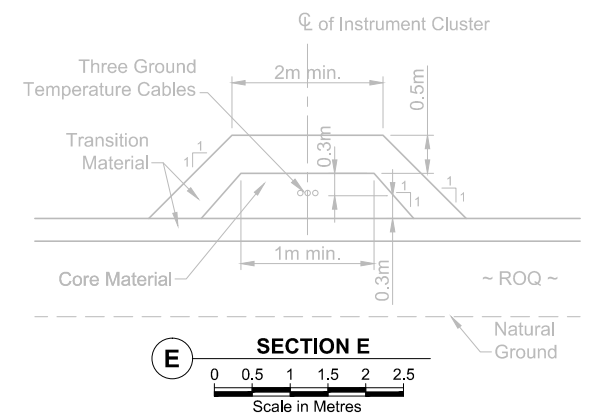
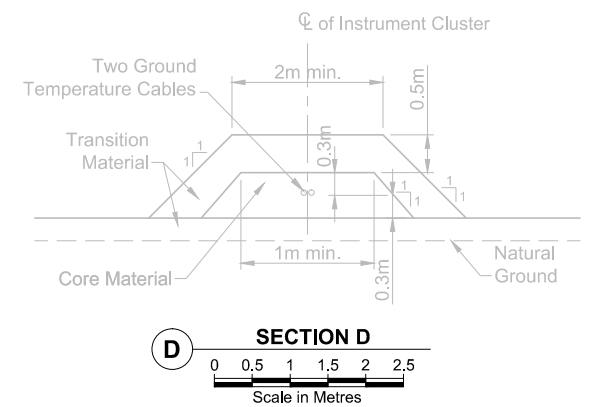
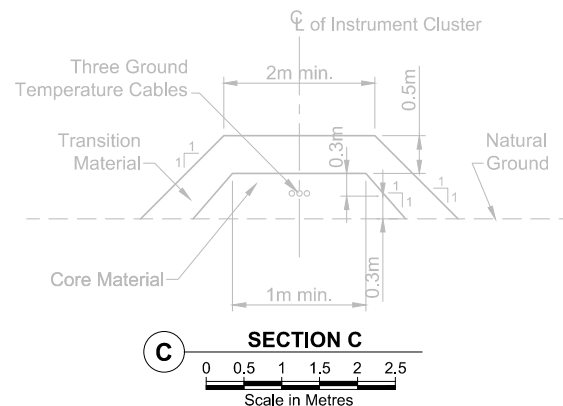
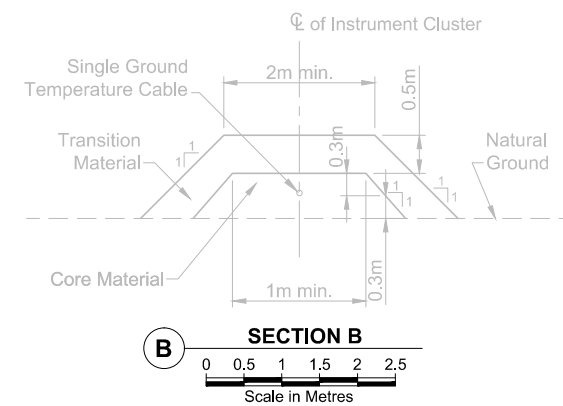
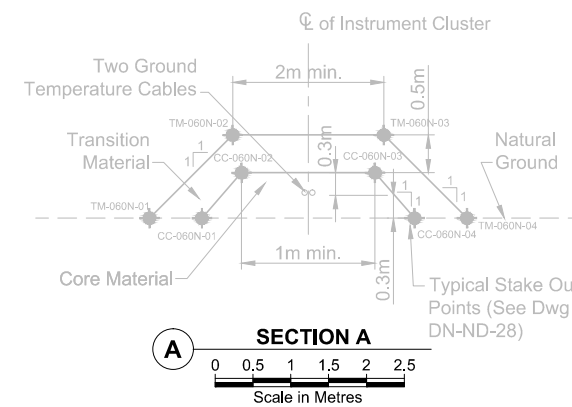
AB



**VERTICAL GROUND
TEMPERATURE CABLE LAYOUT**

0 5 10 15 20 25

Scale in Metres



VERTICAL GROUND TEMPERATURE CABLE STRING STAKE OUT POINTS		
ID	NORTHING	EASTING
ND-VTS-040-KT	7559095.51	434329.24
ND-VTS-060-DS	7559136.03	434314.70
ND-VTS-060-KT	7559108.30	434344.88
ND-VTS-060-US	7559080.37	434375.43
ND-VTS-085-DS	7559159.92	434325.70
ND-VTS-085-KT	7559124.33	434364.37
ND-VTS-085-US	7559096.34	434395.02
ND-VTS-130-DS	7559181.94	434368.24
ND-VTS-130-KT	7559158.38	434393.82
ND-VTS-130-US	7559137.96	434416.20
ND-VTS-175-KT	7559194.00	434421.58

1. Ground temperature cable cover field fit to ensure adequate protection maintained. Survey data sparse and incomplete for protective cover.
2. Leads from the key trench and lower and middle horizontal GTCs were ran up the edge of the core and brought to the downstream side of the dam shell at the upper horizontal GTC elevation (See JDS-RFI-005 for Details).

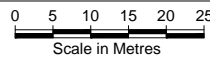
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LEGEND

- Ground Temperature Cable
- Thermistor Bead
- Ground Temperature Cable As-built
- Ground Temperature Cable Cover As-built
- Thermistor Bead As-built

HORIZONTAL GROUND TEMPERATURE CABLE LAYOUT

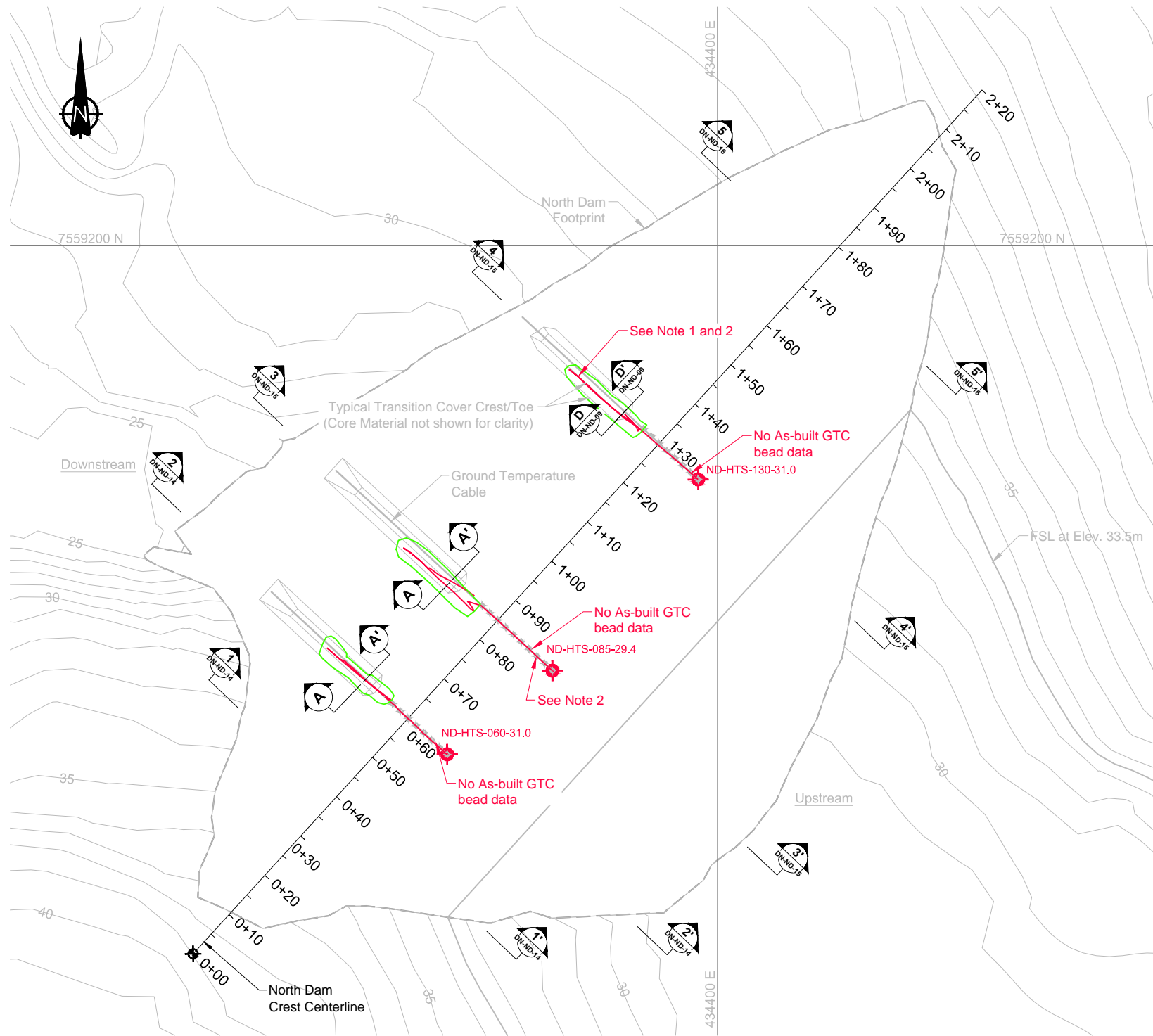


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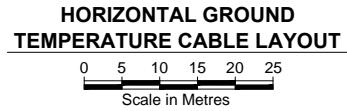
- Ground temperature cable cover field fit to ensure adequate protection maintained. Survey data sparse and incomplete for protective cover.
- Leads from the key trench and lower and middle horizontal GTCs were ran up the edge of the core and brought to the downstream side of the dam shell at the upper horizontal GTC elevation (See JDS-RFI-005 for Details).

HORIZONTAL TOP OF LINER GROUND TEMPERATURE CABLE AS-BUILT POINTS			
ID	NORTHING	EASTING	Elev. (m)
ND-HTS-040-31.5	7559092.60	434332.39	32.78
ND-HTS-060-28.8	7559104.01	434349.53	30.80
ND-HTS-085-25.3	7559118.27	434370.93	28.31
ND-HTS-130-28.8	7559155.37	434397.08	30.60
ND-HTS-175-32.5	7559192.51	434423.19	32.78

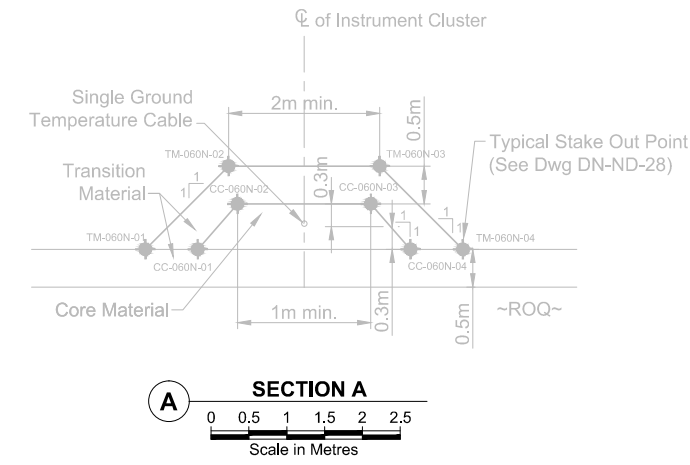
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								Horizontal Ground Temperature Cable Layout - Top of Liner			
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								SHEET 11 OF 29			
								AB			



LEGEND	
	Ground Temperature Cable
	Thermistor Bead
	Ground Temperature Cable As-built
	Ground Temperature Cable Cover As-built
	Thermistor Bead As-built



- NOTES**
- Ground temperature cable cover field fit to ensure adequate protection maintained. Survey data sparse and incomplete for protective cover.
 - Leads from the key trench and lower and middle horizontal GTCs were ran up the edge of the core and brought to the downstream side of the dam shell at the upper horizontal GTC elevation (See JDS-RFI-005 for Details).

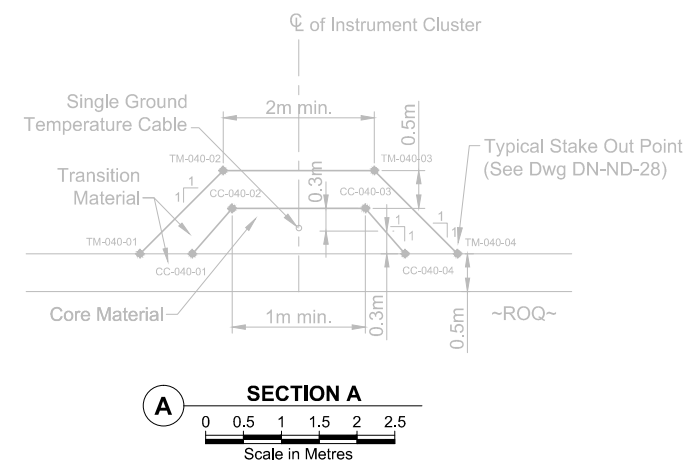
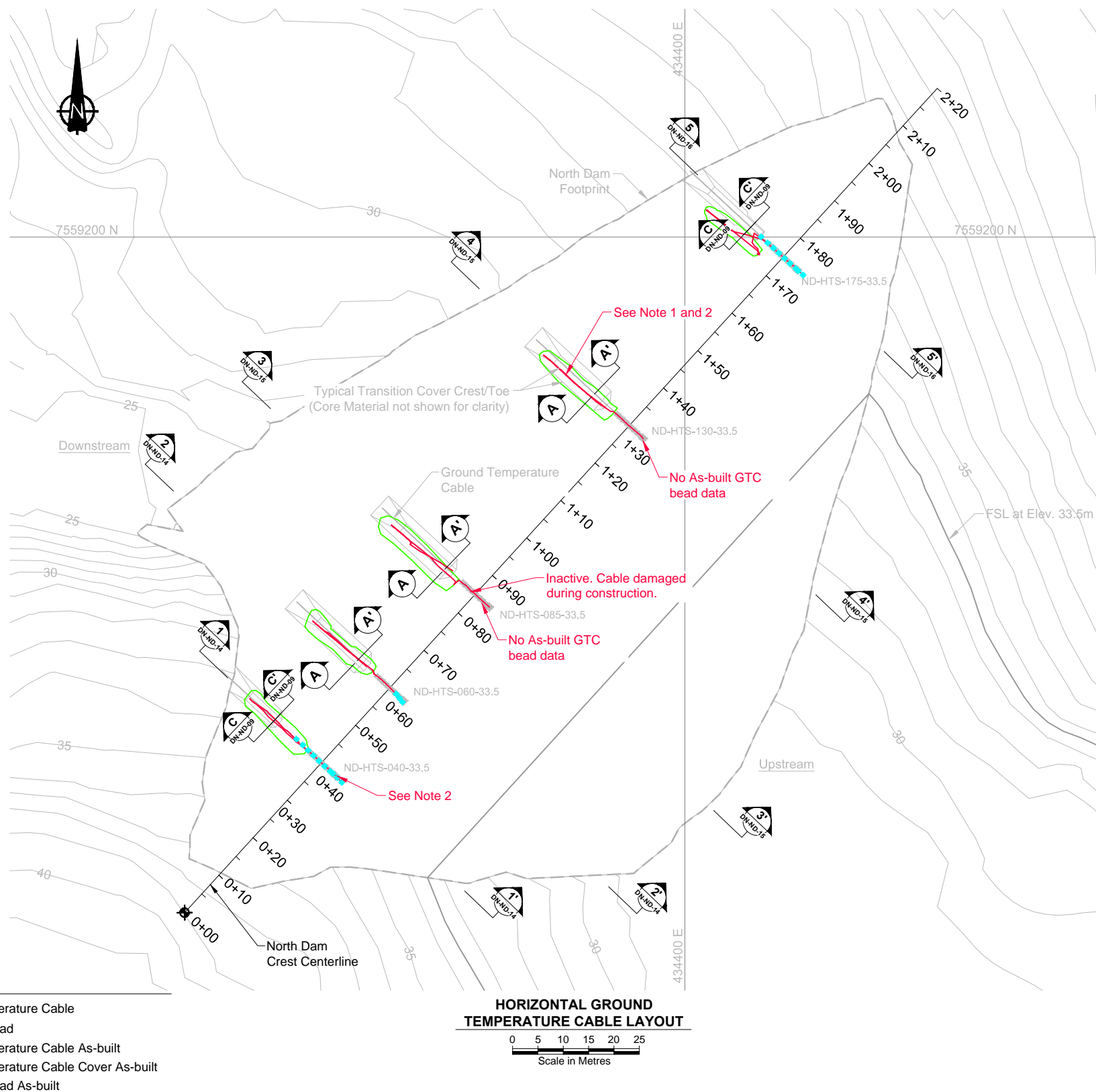


HORIZONTAL MIDDLE CORE GROUND TEMPERATURE CABLE AS-BUILT POINTS			
ID	NORTHING	EASTING	Elev. (m)
ND-HTS-060-31.0	7559104.30	434349.14	31.00
ND-HTS-085-29.4	7559120.13	434368.93	29.42
ND-HTS-130-31.0	7559156.13	434396.24	31.00

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												DRAWING TITLE: North Dam			
												Horizontal Ground Temperature Cable Layout - Middle Core			
												NEWMONT DRAWING NO. HB+T-CIV-CIV-OND-0031			
												SHEET 12 OF 29			
												AB			

DRAWING NO.				DRAWING TITLE				DRAWING NO.				DRAWING TITLE			



HORIZONTAL UPPER CORE GROUND TEMPERATURE CABLE STAKE OUT POINTS			
ID	NORTHING	EASTING	Elev. (m)
ND-HTS-040-33.5	7559093.85	434331.08	33.50
ND-HTS-060-33.5	7559108.62	434344.57	33.50
ND-HTS-085-33.5	7559127.07	434361.44	33.50
ND-HTS-130-33.5	7559160.30	434391.79	33.50
ND-HTS-175-33.5	7559193.53	434422.12	33.50

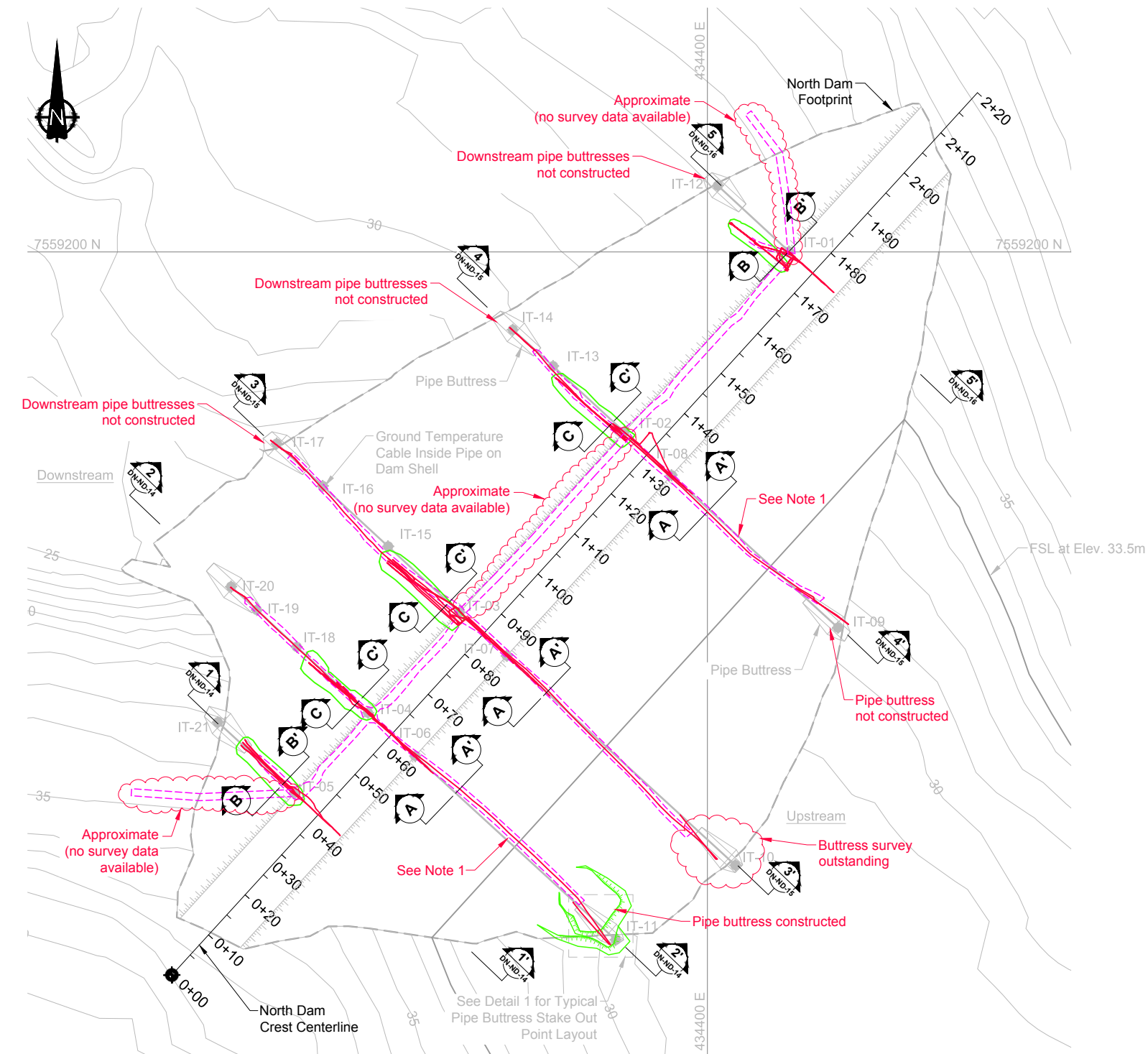
NORTH DAM QUANTITIES:	
Total Core Material for Embedded Ground Temperature Cable Leads	264m ³
Total Transition Material for Embedded Ground Temperature Cable Leads	914m ³

NOTES

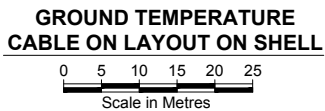
1. Ground temperature cable cover field fit to ensure adequate protection maintained. Survey data sparse and incomplete for protective cover.
2. Leads from the key trench and lower and middle horizontal GTCs were ran up the edge of the core and brought to the downstream side of the dam shell at the upper horizontal GTC elevation (See JDS-RFI-005 for Details).

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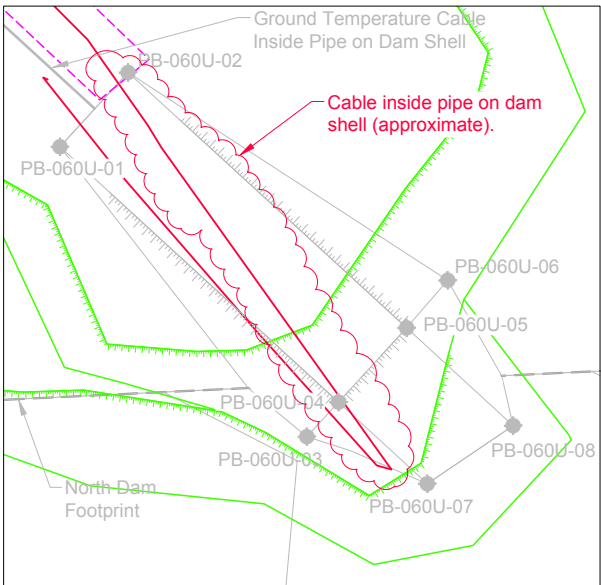
LEGEND	
	Ground Temperature Cable
	Thermistor Bead
	Ground Temperature Cable As-built
	Ground Temperature Cable and Pipe Buttress Cover As-built
	Instrumentation Trenches As-built



NOTE

1. GTC leads were placed in trenches and covered with core material.

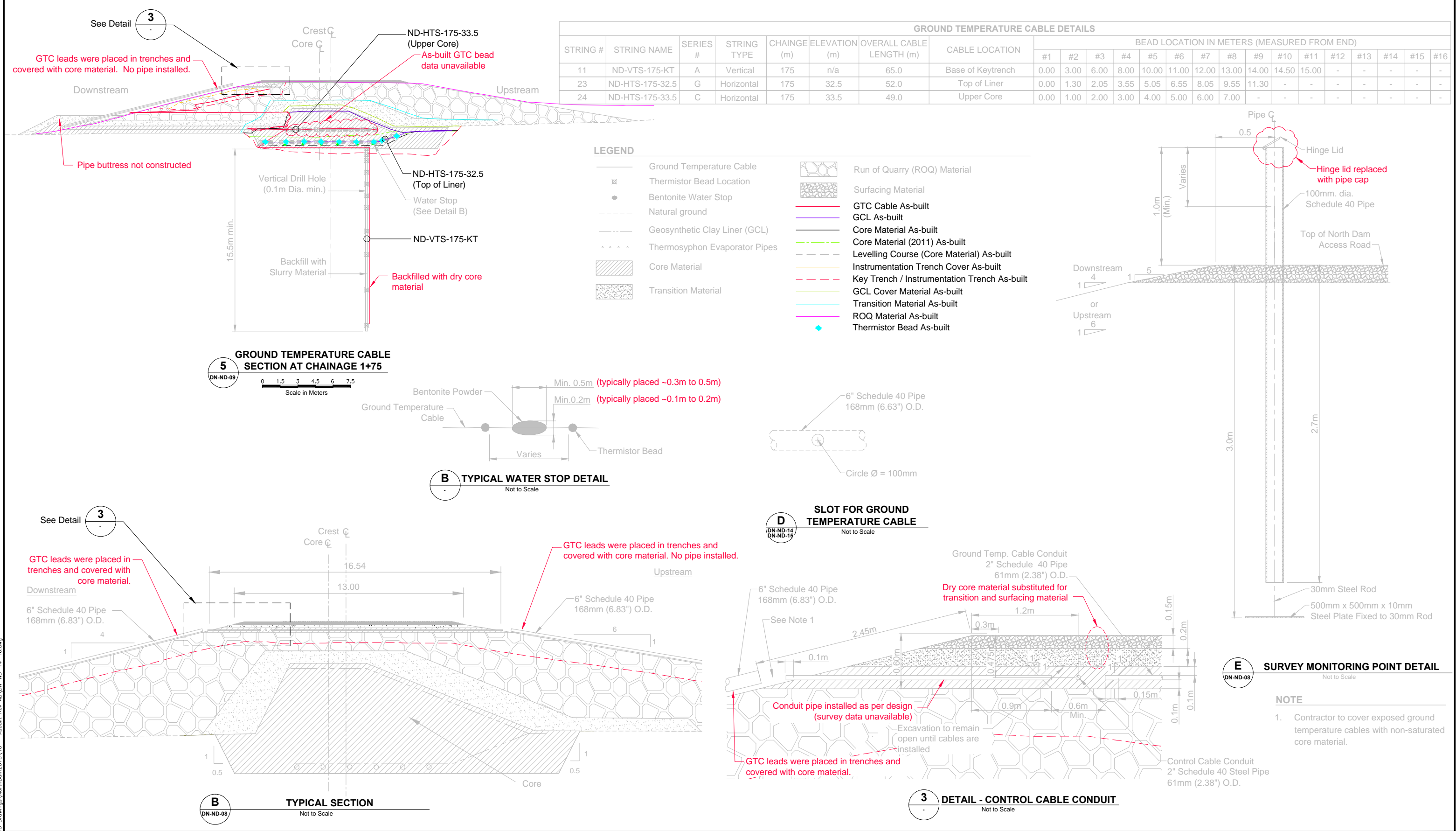
INSTRUMENTATION STAKE OUT POINTS			
ID	NORTHING	EASTING	ELEV.(m)
IT-01	7559200.08	434415.04	37.65
IT-02	7559166.85	434384.69	37.65
IT-03	7559133.62	434354.35	37.65
IT-04	7559115.16	434337.49	37.65
IT-05	7559100.39	434324.01	37.65
IT-06	7559107.18	434346.19	37.65
IT-07	7559125.65	434363.05	37.65
IT-08	7559158.88	434393.39	37.65
IT-09	7559130.82	434424.03	30.53
IT-10	7559087.08	434405.15	28.39
IT-11	7559073.35	434383.11	29.56
IT-12	7559212.21	434401.92	33.50
IT-13	7559178.97	434371.58	33.50
IT-14	7559185.67	434364.16	31.00
IT-15	7559145.78	434341.20	33.50
IT-16	7559156.91	434329.16	29.40
IT-17	7559164.70	434320.68	26.52
IT-18	7559127.28	434324.38	33.50
IT-19	7559134.08	434317.03	31.00
IT-20	7559138.38	434312.29	29.40
IT-21	7559113.41	434309.85	33.16



PIPE BUTTRESSES STAKE OUT POINTS			
ID	NORTHING	EASTING	Elev. (m)
PB-060U-01	7559078.87	434375.58	30.81
PB-060U-02	7559080.34	434376.93	30.81
PB-060U-03	7559073.12	434380.47	29.88
PB-060U-04	7559073.80	434381.10	30.81
PB-060U-05	7559075.28	434382.45	30.81
PB-060U-06	7559076.22	434383.27	29.56
PB-060U-07	7559072.18	434382.86	29.61
PB-060U-08	7559073.33	434384.57	29.37
PB-085U-01	7559092.60	434397.61	29.64
PB-085U-02	7559094.07	434398.97	29.64
PB-085U-03	7559086.60	434402.29	28.38
PB-085U-04	7559087.53	434403.14	29.64
PB-085U-05	7559089.00	434404.49	29.64
PB-085U-06	7559089.93	434405.34	28.38
PB-085U-07	7559085.72	434405.11	28.30
PB-085U-08	7559087.16	434406.49	28.27
PB-130U-01	7559135.37	434417.54	31.99
PB-130U-02	7559136.85	434418.89	31.99
PB-130U-03	7559129.60	434422.06	30.78
PB-130U-04	7559130.49	434422.88	31.99
PB-130U-05	7559131.96	434424.23	31.99
PB-130U-06	7559132.85	434425.04	30.78
PB-130U-07	7559128.32	434425.24	30.38
PB-130U-08	7559130.07	434426.29	30.58
PB-040D-01	7559107.69	434314.72	34.70
PB-040D-02	7559109.17	434316.07	34.70
PB-040D-03	7559111.32	434308.83	33.39
PB-040D-04	7559112.28	434309.72	34.71
PB-040D-05	7559113.76	434311.07	34.71
PB-040D-06	7559115.01	434312.21	33.01
PB-040D-07	7559114.44	434307.36	33.10
PB-040D-08	7559116.33	434308.26	32.80
PB-060D-01	7559133.56	434316.10	30.60
PB-060D-02	7559135.04	434317.45	30.60
PB-060D-03	7559136.36	434310.95	29.18
PB-060D-04	7559137.41	434311.91	30.60
PB-060D-05	7559138.88	434313.26	30.60
PB-060D-06	7559139.93	434314.22	29.18
PB-060D-07	7559141.23	434307.73	27.76
PB-060D-08	7559142.71	434309.10	28.12
PB-085D-01	7559159.00	434325.46	28.04
PB-085D-02	7559160.47	434326.81	28.04
PB-085D-03	7559162.46	434319.08	26.28
PB-085D-04	7559163.76	434320.27	28.04
PB-085D-05	7559165.24	434321.62	28.04
PB-085D-06	7559166.25	434322.55	26.65
PB-085D-07	7559165.69	434318.17	26.61
PB-085D-08	7559166.89	434319.81	26.81
PB-130D-01	7559180.86	434367.96	32.20
PB-130D-02	7559182.34	434369.31	32.20
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PB-130D-04	7559184.46	434364.04	32.20
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PB-130D-06	7559186.91	434366.29	30.87
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PB-130D-08	7559189.10	434361.90	29.83
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PB-175D-04	7559211.02	434401.78	34.71
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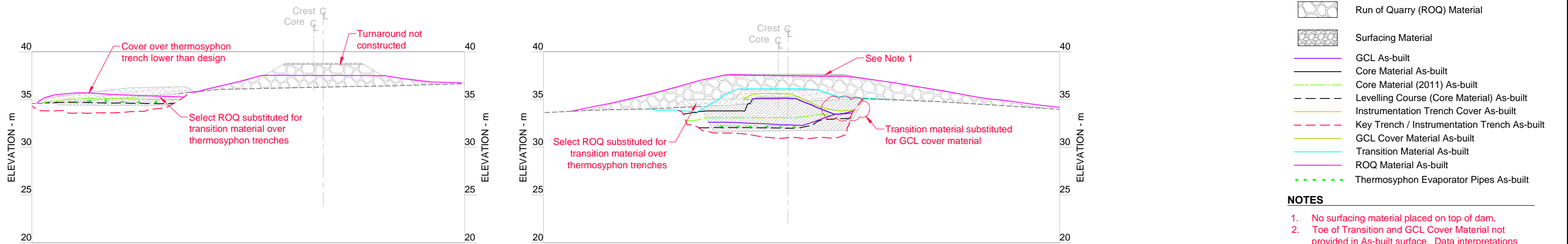
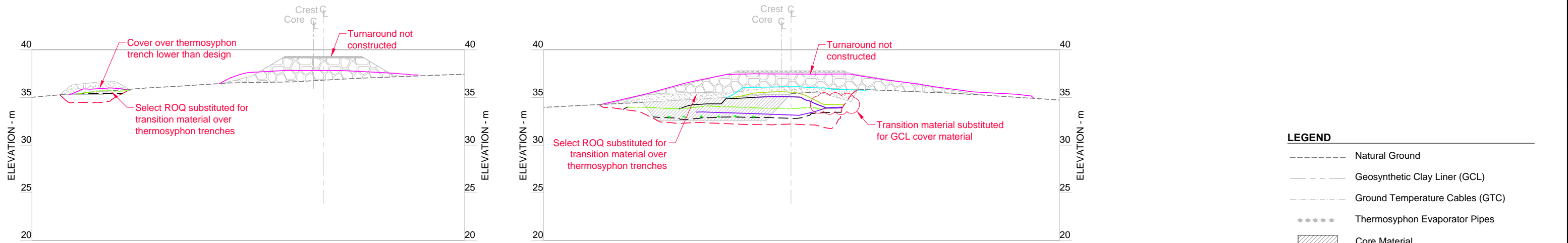
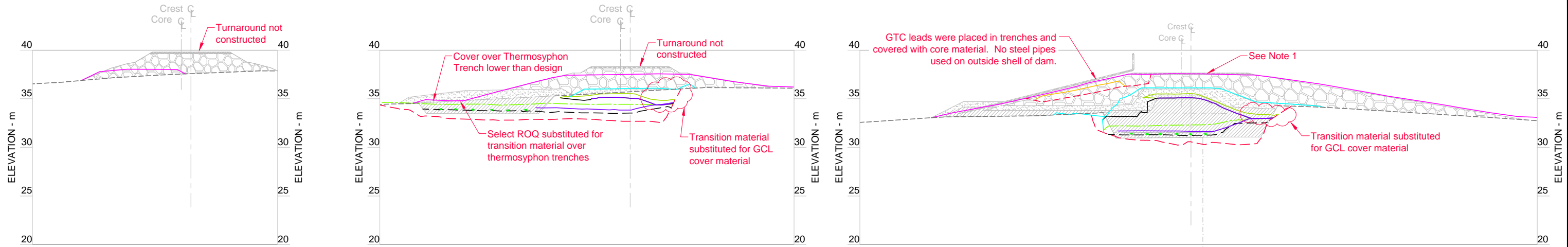
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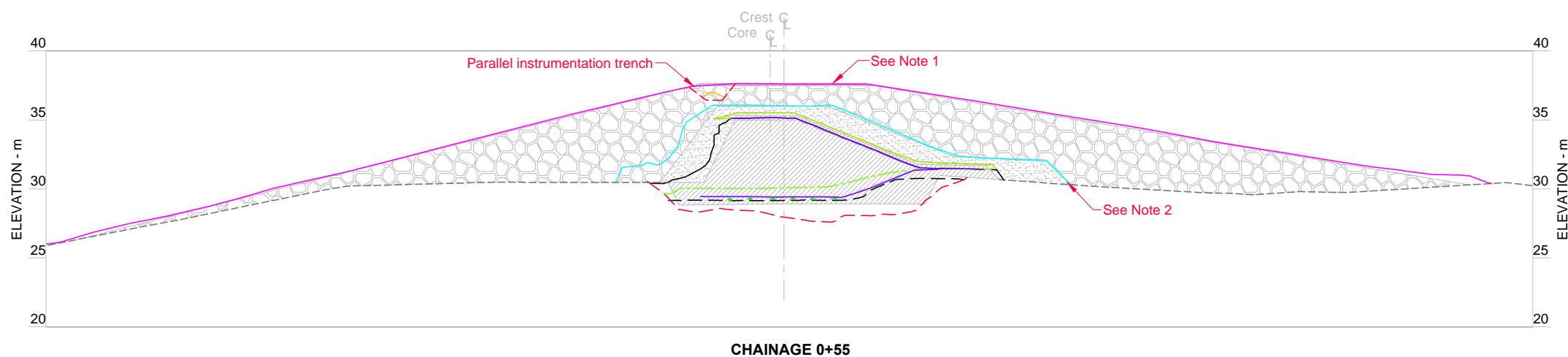
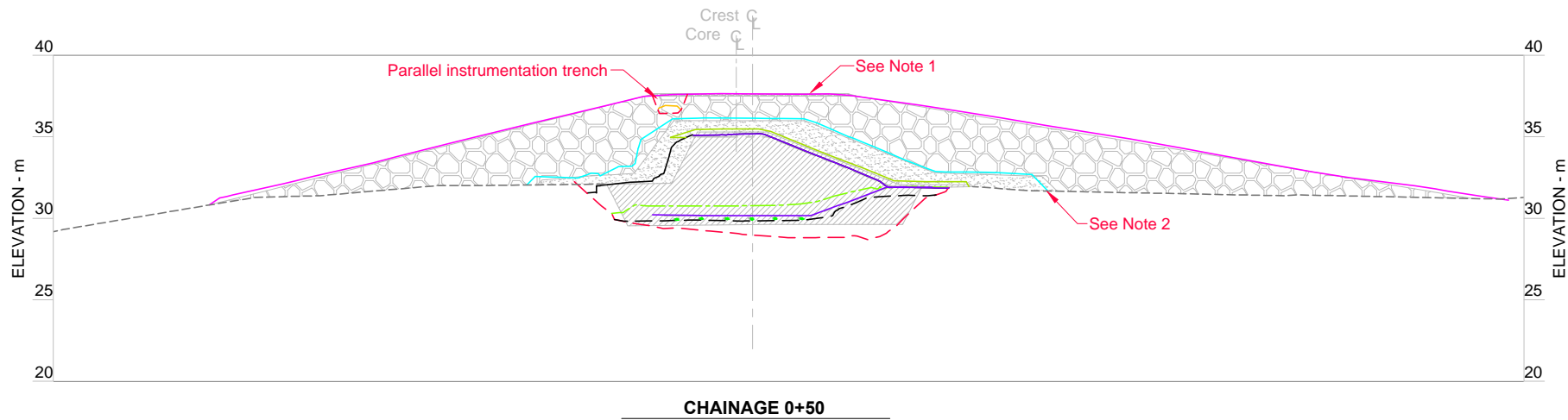
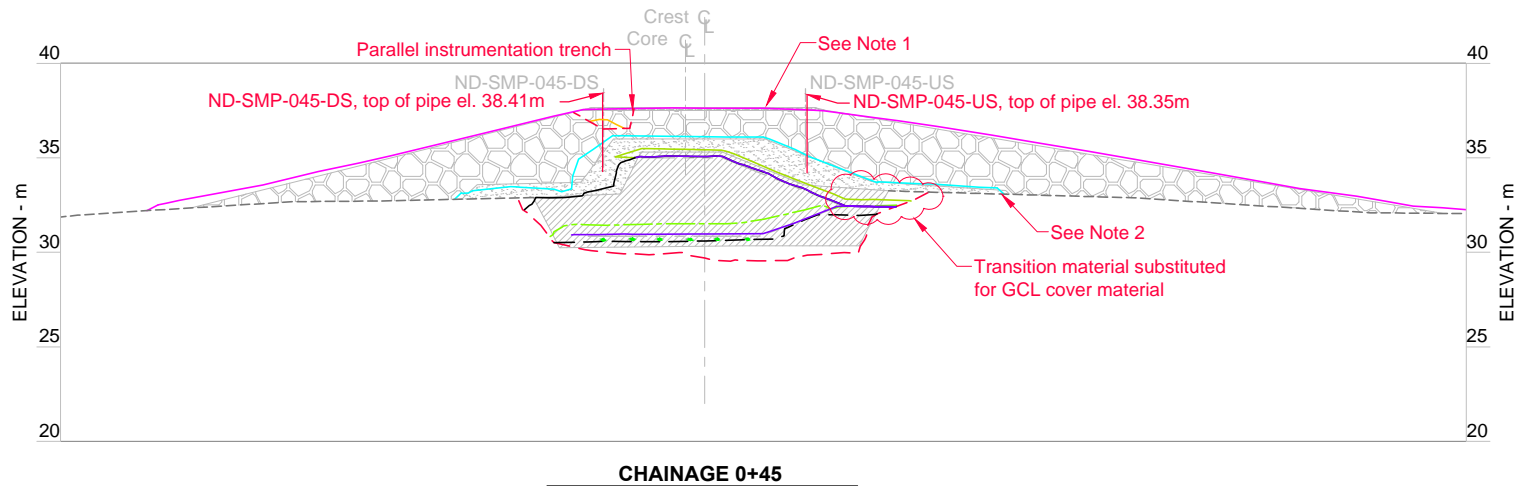


- LEGEND**
- Natural Ground
 - Geosynthetic Clay Liner (GCL)
 - Ground Temperature Cables (GTC)
 - Thermosyphon Evaporator Pipes
 - Core Material
 - Transition Material
 - Run of Quarry (ROQ) Material
 - Surfacing Material
 - GCL As-built
 - Core Material As-built
 - Core Material (2011) As-built
 - Levelling Course (Core Material) As-built
 - Instrumentation Trench Cover As-built
 - Key Trench / Instrumentation Trench As-built
 - GCL Cover Material As-built
 - Transition Material As-built
 - ROQ Material As-built
 - Thermosyphon Evaporator Pipes As-built

- NOTES**
1. No surfacing material placed on top of dam.
 2. Toe of Transition and GCL Cover Material not provided in As-built surface. Data interpretations shown on sections.

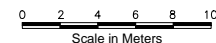
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Scale in Meters

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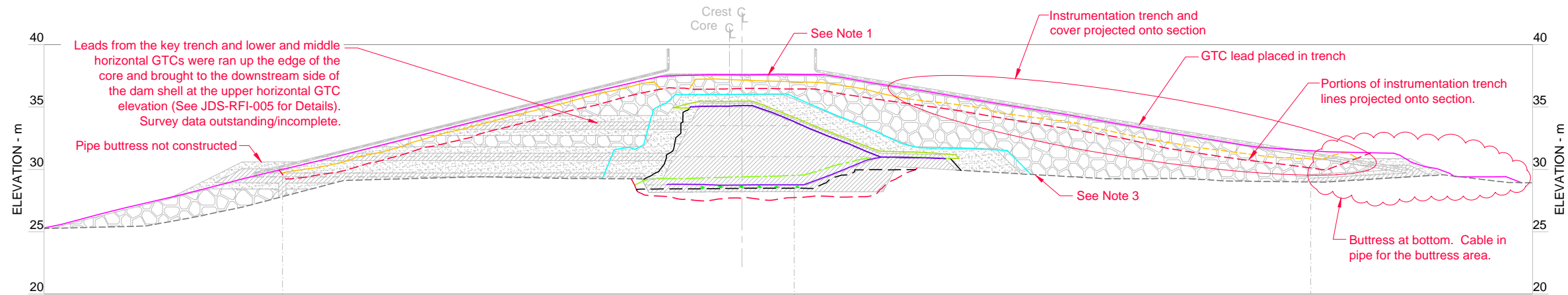


- LEGEND**
- Natural Ground
 - Geosynthetic Clay Liner (GCL)
 - Ground Temperature Cables (GTC)
 - Thermosyphon Evaporator Pipes
 - Core Material
 - Transition Material
 - Run of Quarry (ROQ) Material
 - Surfacing Material
 - GCL As-built
 - Core Material As-built
 - Core Material (2011) As-built
 - Levelling Course (Core Material) As-built
 - Instrumentation Trench Cover As-built
 - Key Trench / Instrumentation Trench As-built
 - GCL Cover Material As-built
 - Transition Material As-built
 - ROQ Material As-built
 - Thermosyphon Evaporator Pipes As-built

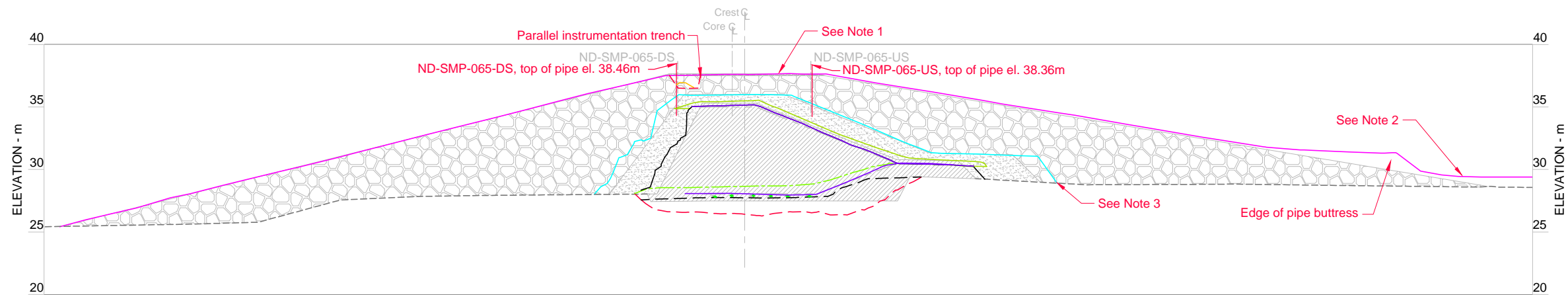
- NOTES**
- No surfacing material placed on top of dam.
 - Toe of Transition and GCL Cover Material not provided in As-built surface. Data interpretations shown on sections.



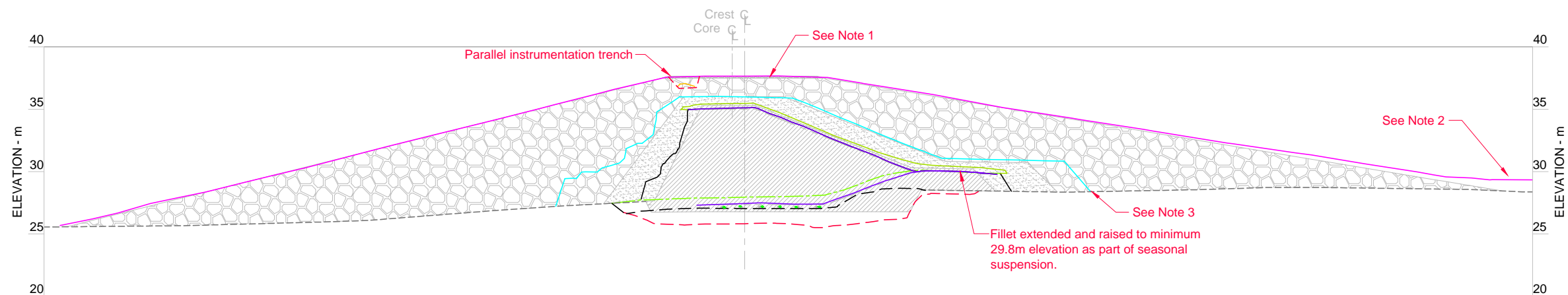
\\01_SITES\Hope Bay\000\NorthDam\2010 Drawings\NorthDam\2010 - Asbuilt Rev AB\DN-ND-17-26.dwg



CHAINAGE 0+60



CHAINAGE 0+65



CHAINAGE 0+70

LEGEND

- Natural Ground
- Geosynthetic Clay Liner (GCL)
- Ground Temperature Cables (GTC)
- Thermosyphon Evaporator Pipes
- Core Material
- Transition Material
- Run of Quarry (ROQ) Material
- Surfacing Material
- GCL As-built
- Core Material As-built
- Core Material (2011) As-built
- Levelling Course (Core Material) As-built
- Instrumentation Trench Cover As-built
- Key Trench / Instrumentation Trench As-built
- GCL Cover Material As-built
- Transition Material As-built
- ROQ Material As-built
- Thermosyphon Evaporator Pipes As-built

NOTES

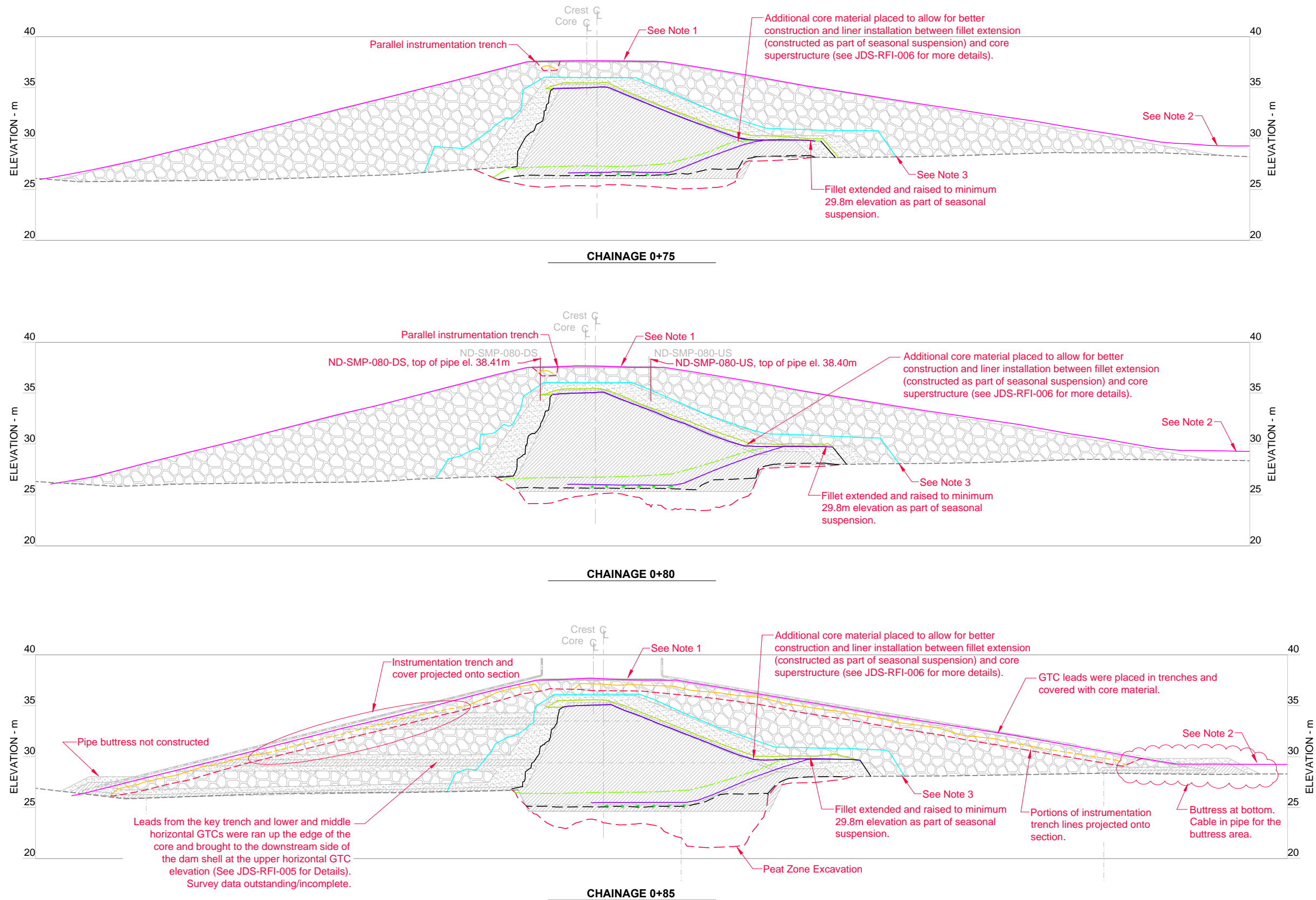
- No surfacing material placed on top of dam.
- Ice cover over toe at time of May 2012 survey. Toe to be re-surveyed once ice has melted.
- Toe of Transition and GCL Cover Material not provided in As-built surface. Data interpretations shown on sections.

0 2 4 6 8 10
Scale in Meters

\\01_SITES\Hope Bay\JACAD\2010 Drawings\NorthDam\2010_10 - Asbuilt Rev AB\DN-ND-17-26.dwg

											srk consulting			NEWMONT NORTH AMERICA			Doris North Project		
											DESIGN: EMR			DRAWN: VY/LR/NV/DC			DRAWING TITLE: North Dam Sections 0+60 to 0+70		
											CHECKED: LW/JBK/MMM			APPROVED: EMR			HOPE BAY MINING LTD.		
											DATE: July 20, 2012						NEWMONT DRAWING NO. HB+T-CIV-CIV-OND-0039		
DRAWING NO.				DRAWING TITLE				REFERENCE DRAWINGS			NO.			DESCRIPTION			SHEET 20 of 29		
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LEGEND

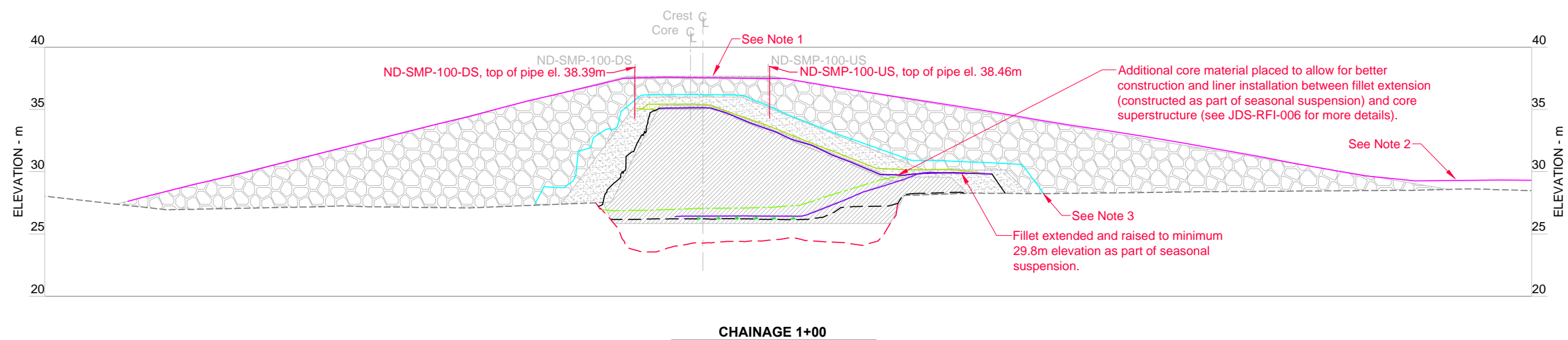
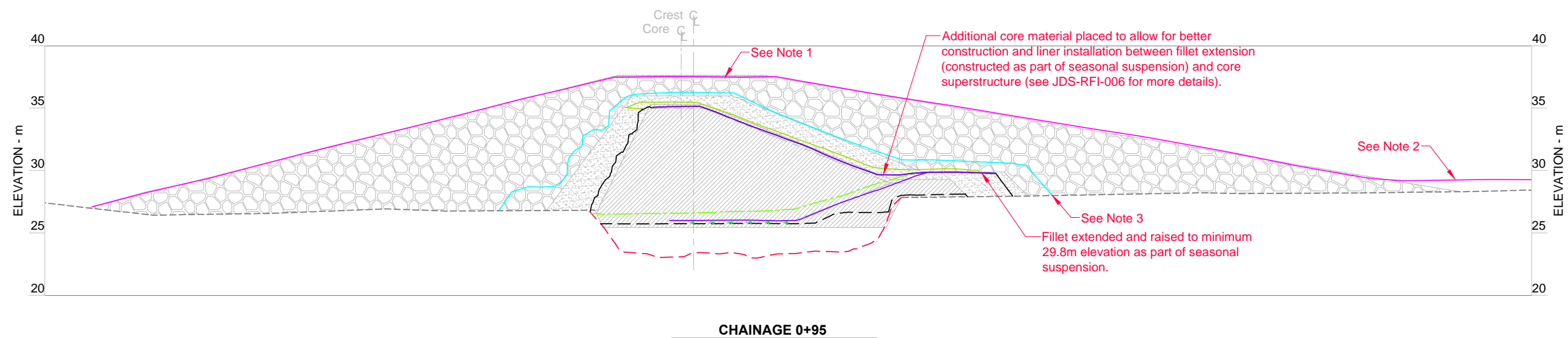
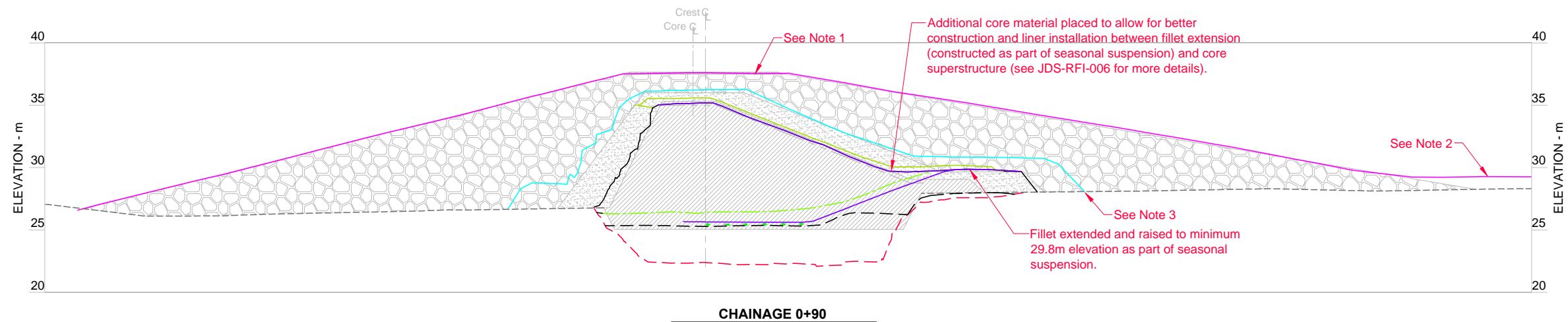
---	Natural Ground
---	Geosynthetic Clay Liner (GCL)
---	Ground Temperature Cables (GTC)
....	Thermosyphon Evaporator Pipes
[Pattern]	Core Material
[Pattern]	Transition Material
[Pattern]	Run of Quarry (ROQ) Material
[Pattern]	Surfacing Material
---	GCL As-built
---	Core Material As-built
---	Core Material (2011) As-built
---	Levelling Course (Core Material) As-built
---	Instrumentation Trench Cover As-built
---	Key Trench / Instrumentation Trench As-built
---	GCL Cover Material As-built
---	Transition Material As-built
---	ROQ Material As-built
---	Thermosyphon Evaporator Pipes As-built

NOTES



















- No surfacing material placed on top of dam.
- Ice cover over toe at time of May 2012 survey. Toe to be re-surveyed once ice has melted.
- Toe of Transition and GCL Cover Material not provided in As-built surface. Data interpretations shown on sections.

0 2 4 6 8 10
Scale in Meters

								srk consulting			NEWMONT NORTH AMERICA			Doris North Project		
								DESIGN: EMR			DRAWN: VY/LR/NV/DC			DRAWING TITLE: North Dam Sections 0+75 to 0+85		
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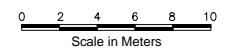


- ### LEGEND

- | | |
|---|--|
|  | Natural Ground |
|  | Geosynthetic Clay Liner (GCL) |
|  | Ground Temperature Cables (GTC) |
|  | Thermosyphon Evaporator Pipes |
|  | Core Material |
|  | Transition Material |
|  | Run of Quarry (ROQ) Material |
|  | Surfacing Material |
|  | GCL As-built |
|  | Core Material As-built |
|  | Core Material (2011) As-built |
|  | Levelling Course (Core Material) As-built |
|  | Instrumentation Trench Cover As-built |
|  | Key Trench / Instrumentation Trench As-built |
|  | GCL Cover Material As-built |
|  | Transition Material As-built |
|  | ROQ Material As-built |
|  | Thermosyphon Evaporator Pipes As-built |

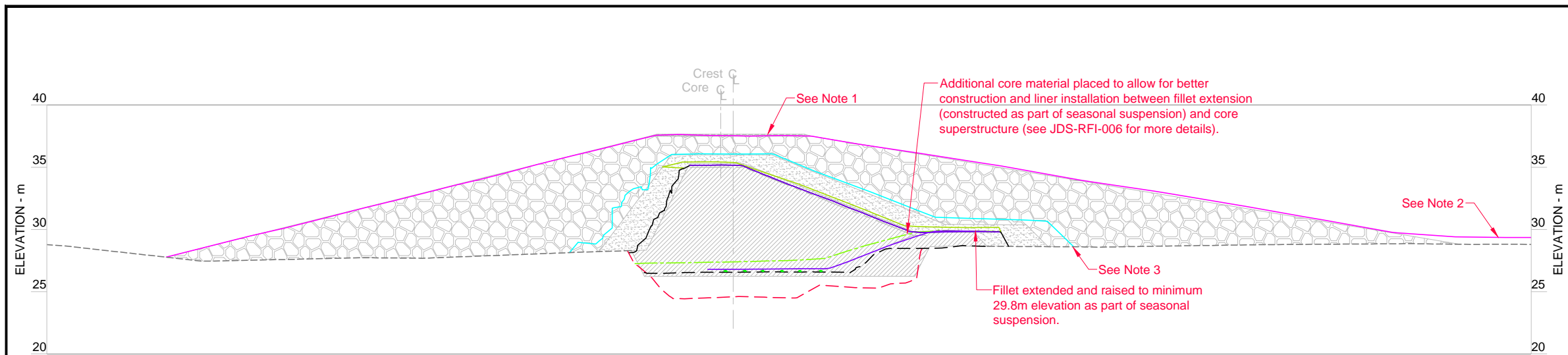
NOTES

1. No surfacing material placed on top of dam.
2. Ice cover over toe at time of May 2012 survey. Toe to be re-surveyed once ice has melted.
3. Toe of Transition and GCL Cover Material not provided in As-built surface. Data interpretations shown on sections.

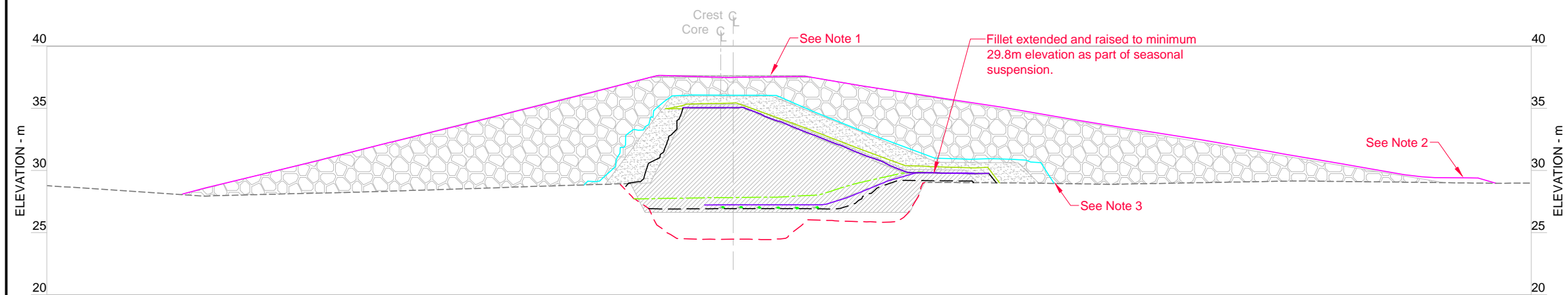


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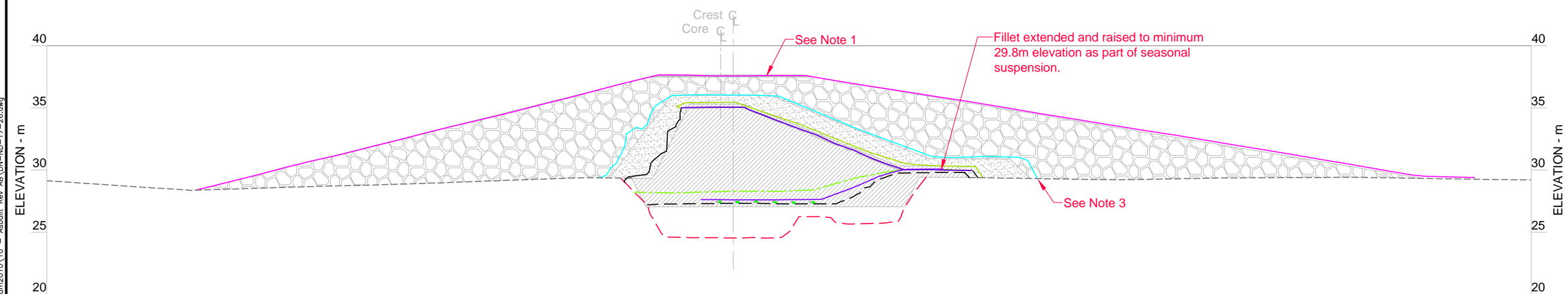
[illegible]



CHAINAGE 1+05





















CHAINAGE 1+10



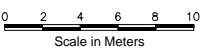
CHAINAGE 1+15

- ### LEGEND

	Natural Ground
	Geosynthetic Clay Liner (GCL)
	Ground Temperature Cables (GTC)
	Thermosyphon Evaporator Pipes
	Core Material
	Transition Material
	Run of Quarry (ROQ) Material
	Surfacing Material
	GCL As-built
	Core Material As-built
	Core Material (2011) As-built
	Levelling Course (Core Material) As-built
	Instrumentation Trench Cover As-built
	Key Trench / Instrumentation Trench As-built
	GCL Cover Material As-built
	Transition Material As-built
	ROQ Material As-built
	Thermosyphon Evaporator Pipes As-built

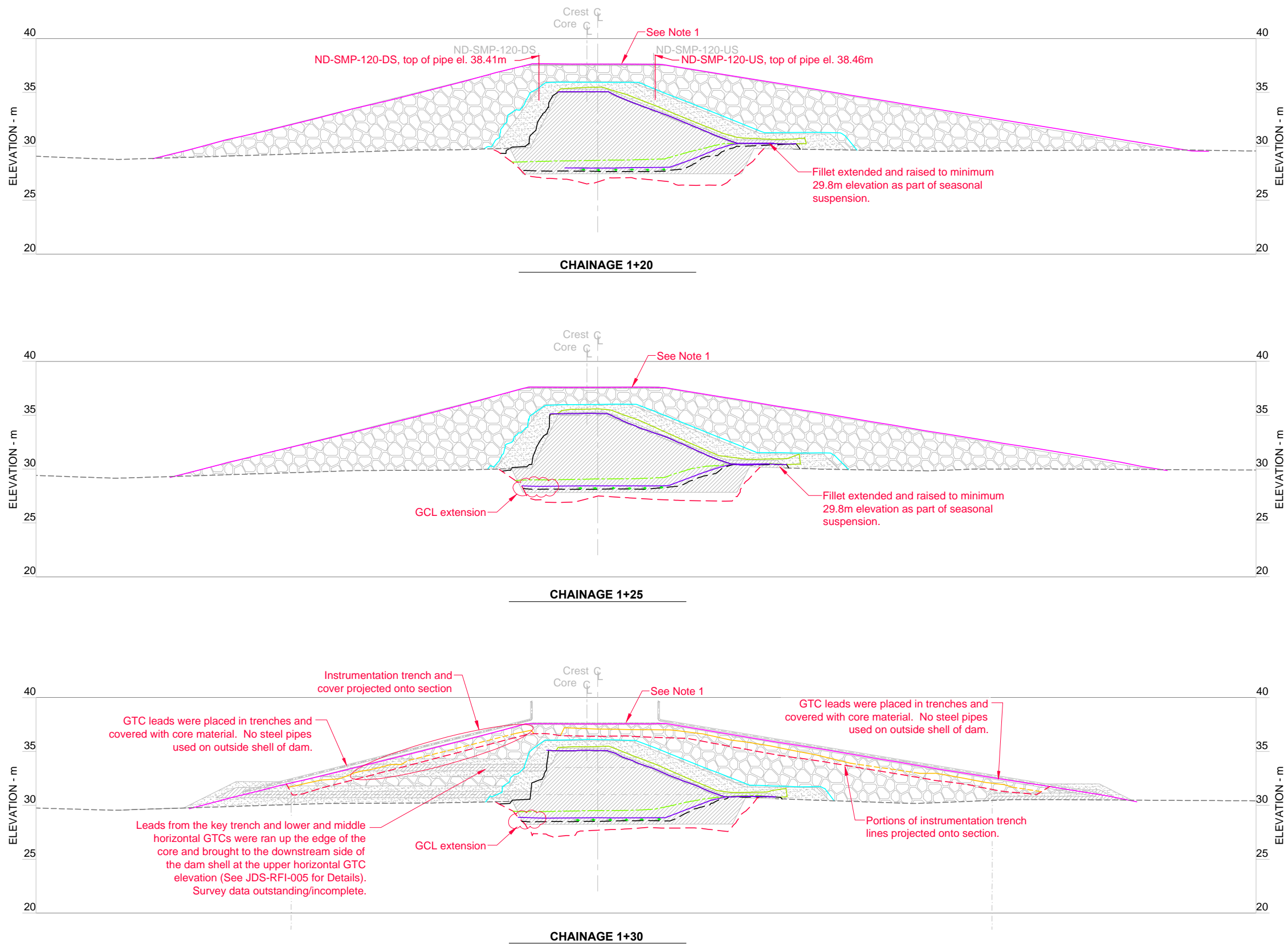
NOTES

1. No surfacing material placed on top of dam.
2. Ice cover over toe at time of May 2012 survey. Toe to be re-surveyed once ice has melted.
3. Toe of Transition and GCL Cover Material not provided in As-built surface. Data interpretations shown on sections.

[illegible]

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LEGEND

Natural Ground

Geosynthetic Clay Liner (GCL)

Ground Temperature Cables (GTC)

Thermosyphon Evaporator Pipes

Core Material

Transition Material

Run of Quarry (ROQ) Material

Surfacing Material

GCL As-built

Core Material As-built

Core Material (2011) As-built

Levelling Course (Core Material) As-built

Instrumentation Trench Cover As-built

Key Trench / Instrumentation Trench As-built

GCL Cover Material As-built

Transition Material As-built

ROQ Material As-built

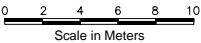
Thermosyphon Evaporator Pipes As-built

- NOTES**
1.

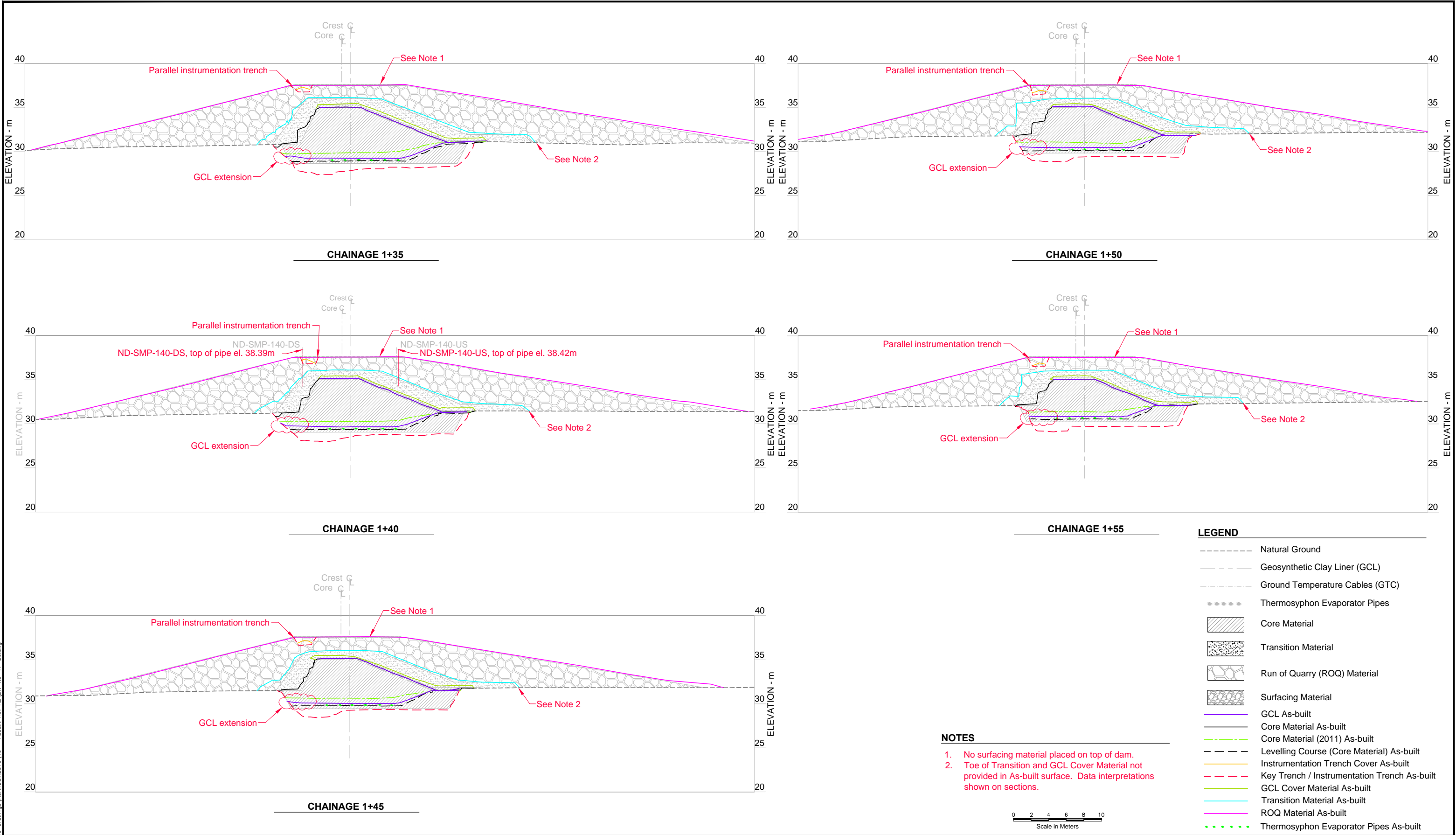
No surfacing material placed on top of dam.
2.

Ice cover over toe at time of May 2012 survey. Toe to be re-surveyed once ice has melted.
3.

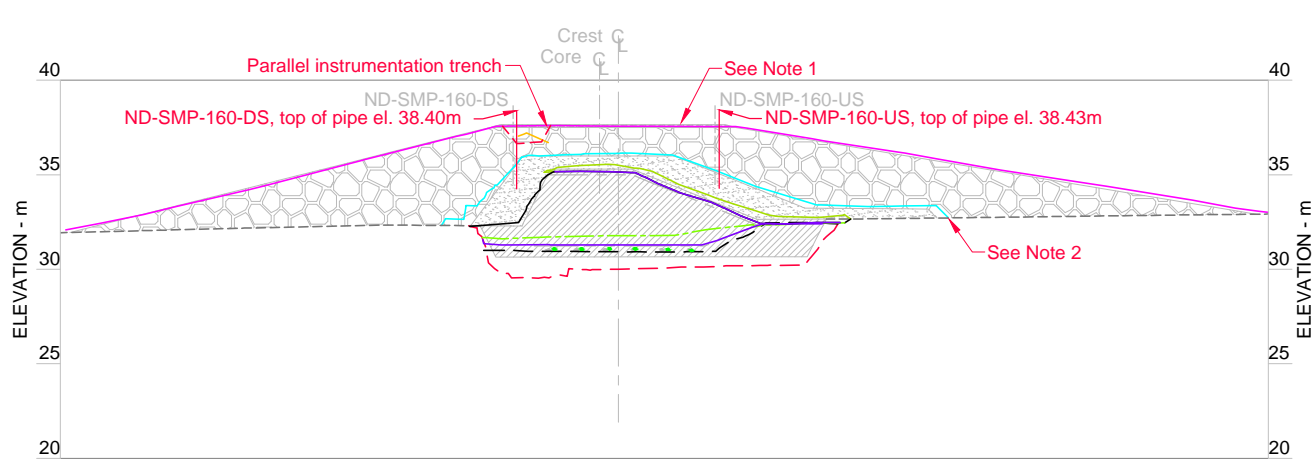
Toe of Transition and GCL Cover Material not provided in As-built surface. Data interpretations shown on sections.



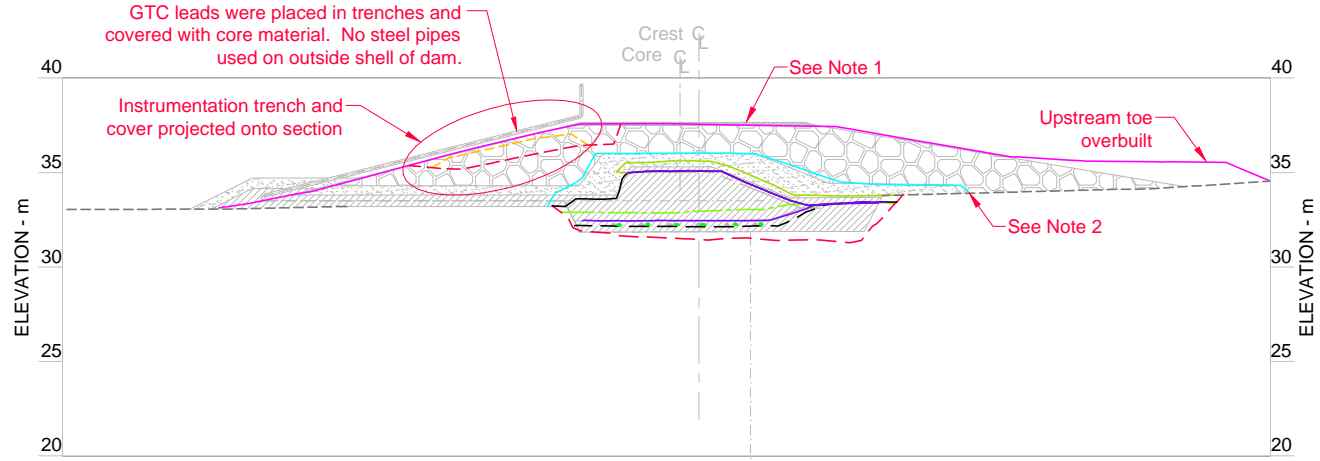
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								O ISSUED FOR CONSTRUCTION			LW EMR 03DEC10					
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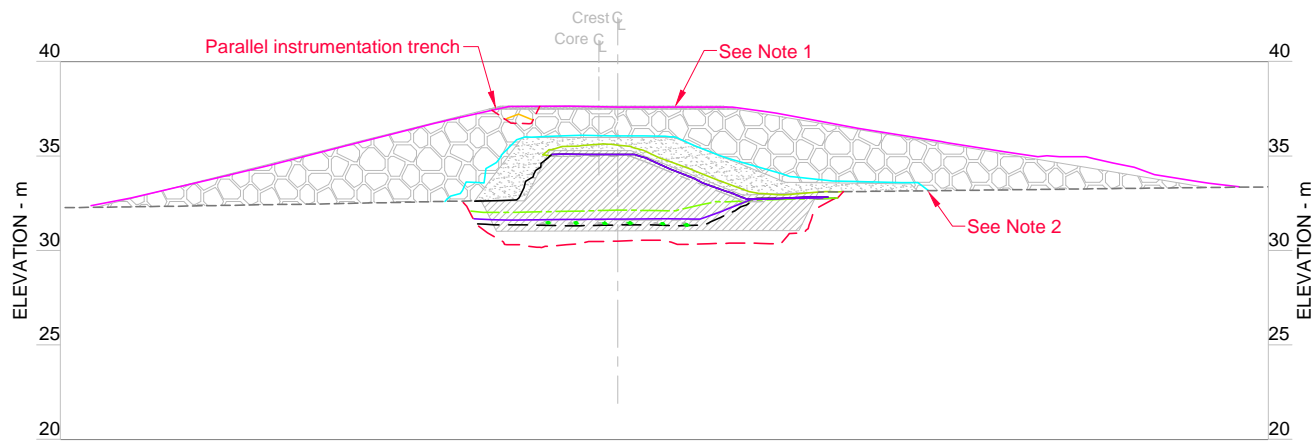
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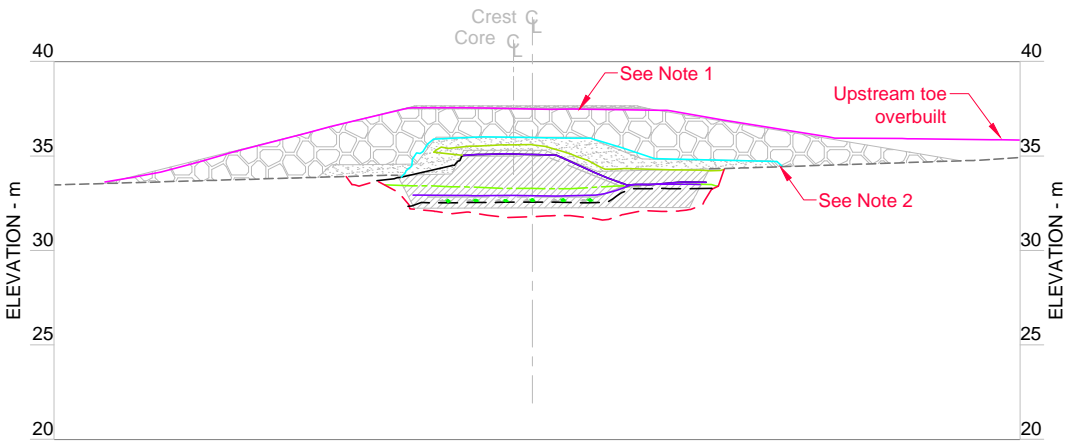
CHAINAGE 1+60



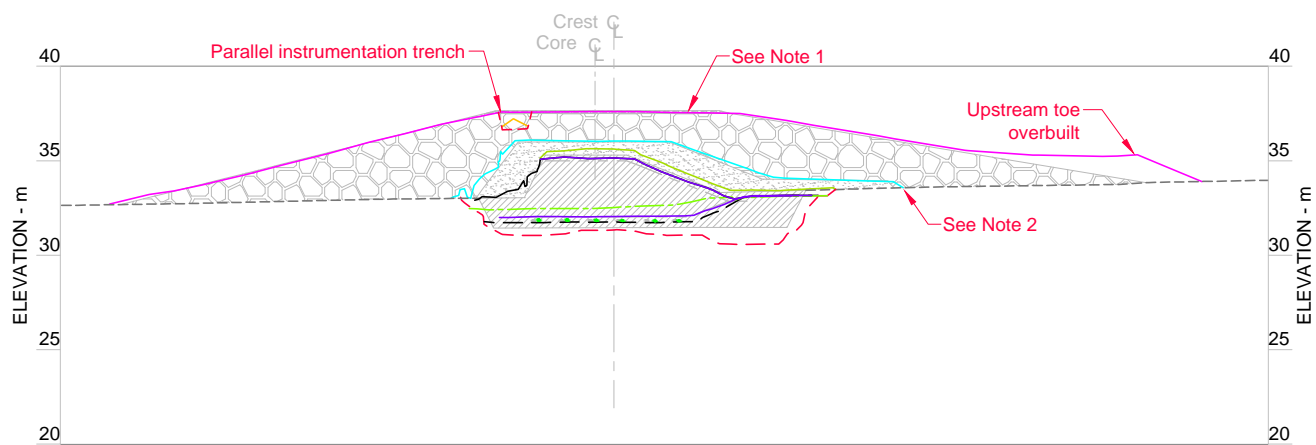
CHAINAGE 1+75



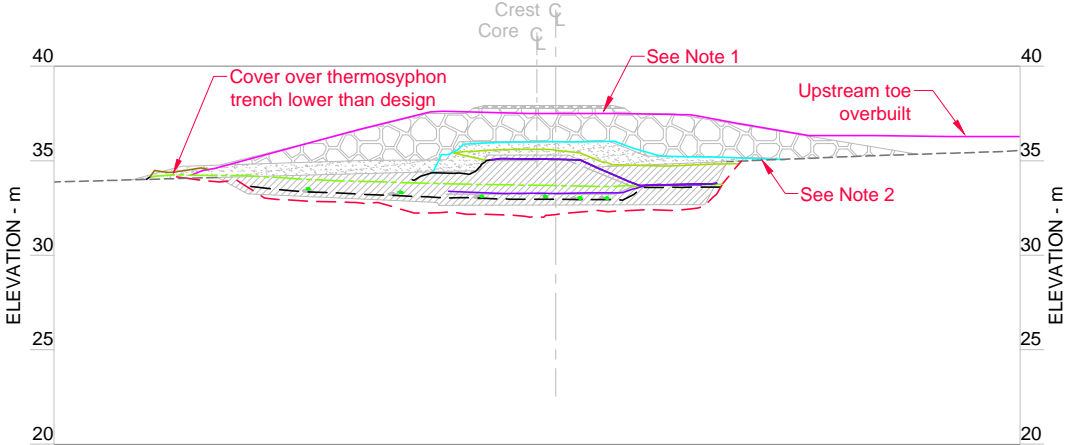
CHAINAGE 1+65



CHAINAGE 1+80



CHAINAGE 1+70



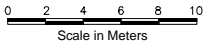
CHAINAGE 1+85

LEGEND

- Natural Ground
- Geosynthetic Clay Liner (GCL)
- Ground Temperature Cables (GTC)
- ... Thermosyphon Evaporator Pipes
- Core Material
- Transition Material
- Run of Quarry (ROQ) Material
- Surfacing Material
- GCL As-built
- Core Material As-built
- Core Material (2011) As-built
- Levelling Course (Core Material) As-built
- Instrumentation Trench Cover As-built
- Key Trench / Instrumentation Trench As-built
- GCL Cover Material As-built
- Transition Material As-built
- ROQ Material As-built
- Thermosyphon Evaporator Pipes As-built

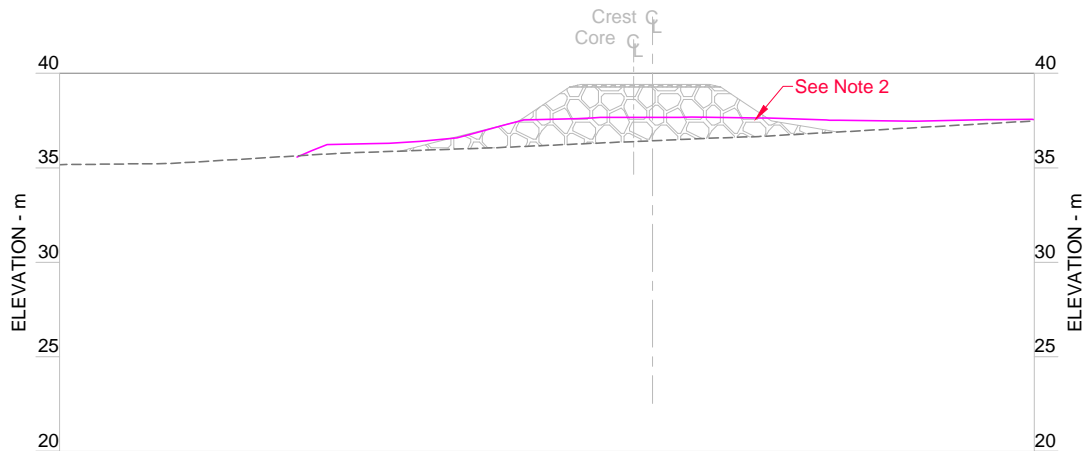
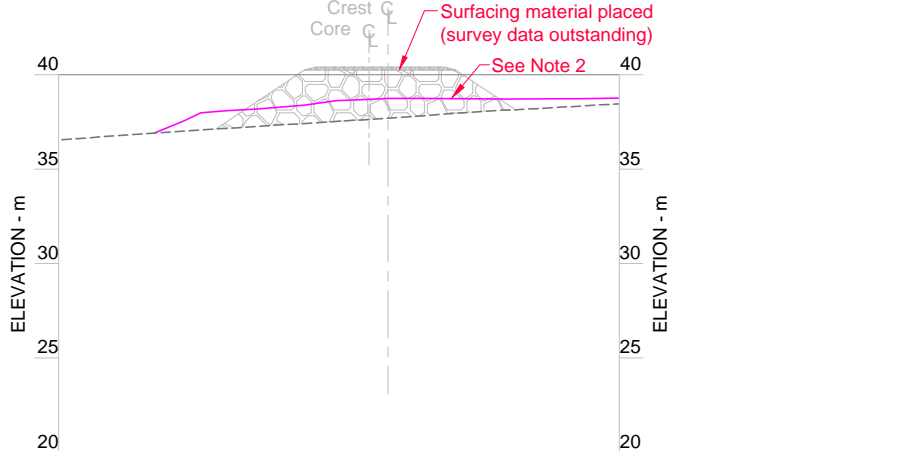
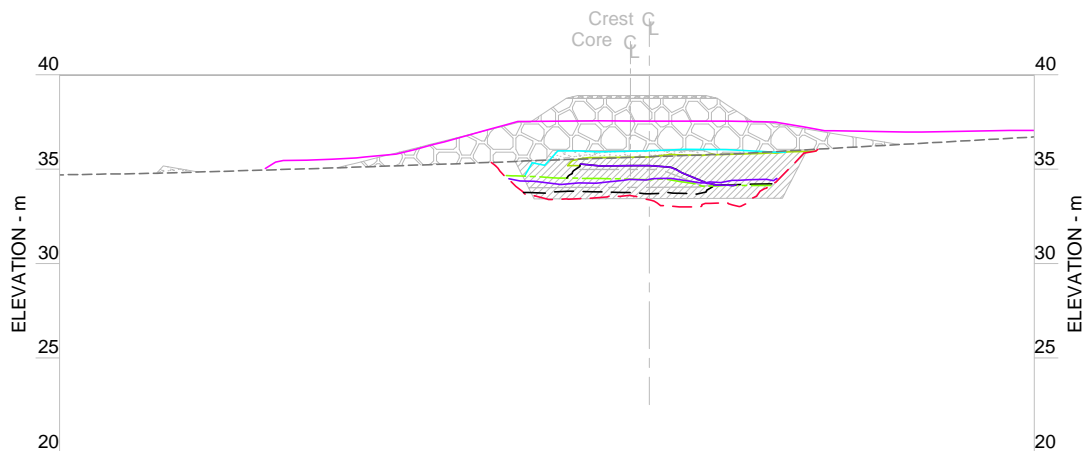
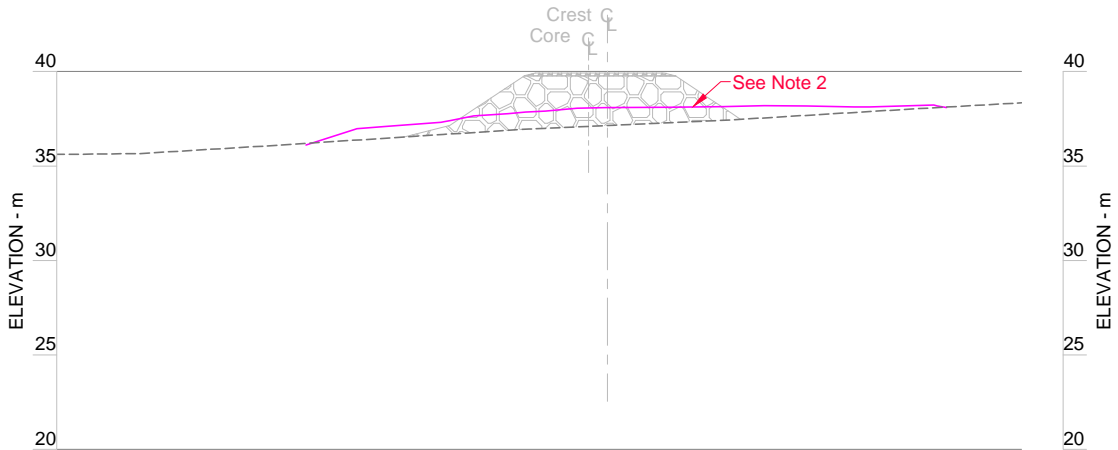
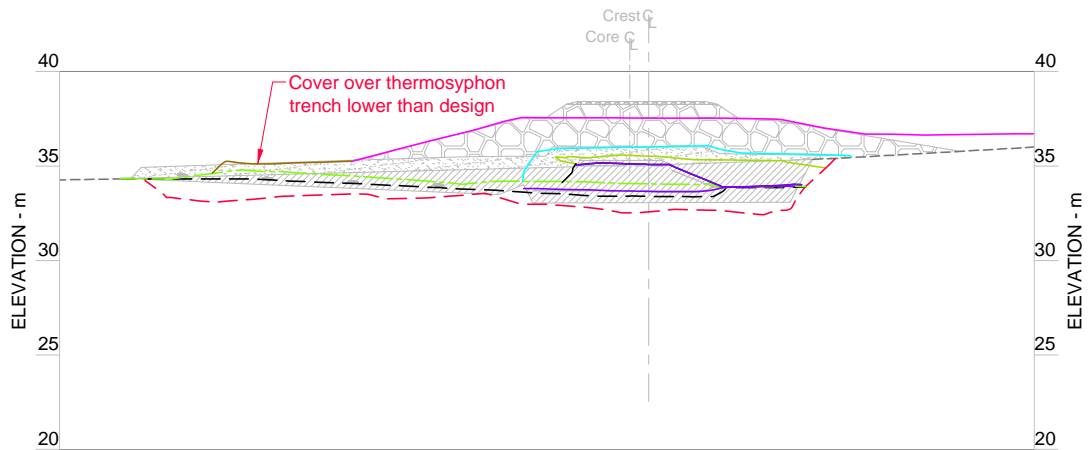
NOTES

- No surfacing material placed on top of dam.
- Toe of Transition and GCL Cover Material not provided in As-built surface. Data interpretations shown on sections.



J:\01_SITES\Hope Bay\UCAD\2010 Drawings\NorthDam\2010 - As-built Rev AB\DN-ND-17-26.dwg

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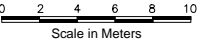


LEGEND

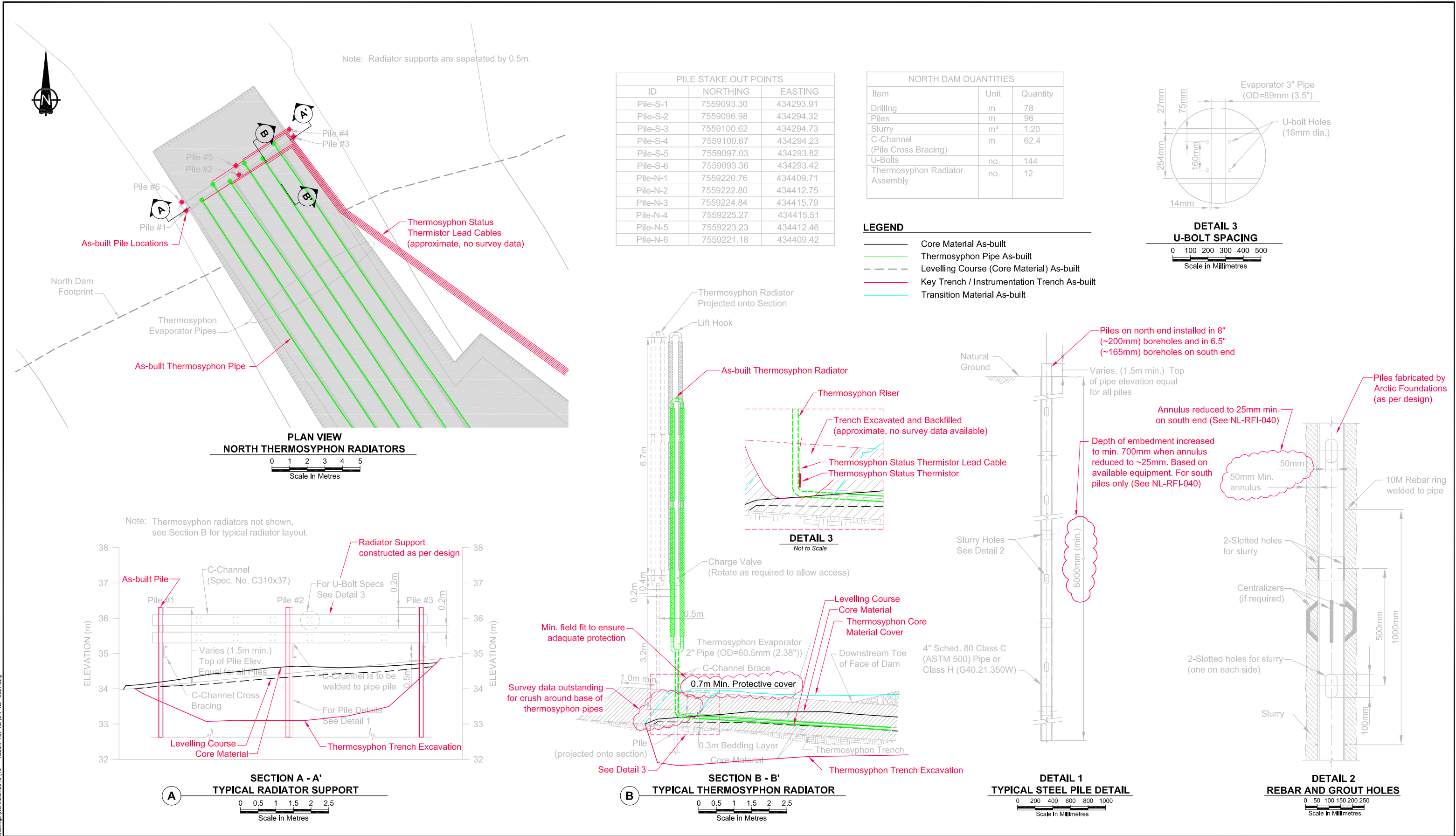
- Natural Ground
- Geosynthetic Clay Liner (GCL)
- Ground Temperature Cables (GTC)
- Thermosyphon Evaporator Pipes
- Core Material
- Transition Material
- Run of Quarry (ROQ) Material
- Surfacing Material
- GCL As-built
- Core Material As-built
- Core Material (2011) As-built
- Levelling Course (Core Material) As-built
- Instrumentation Trench Cover As-built
- Key Trench / Instrumentation Trench As-built
- GCL Cover Material As-built
- Transition Material As-built
- ROQ Material As-built
- Thermosyphon Evaporator Pipes As-built

NOTE

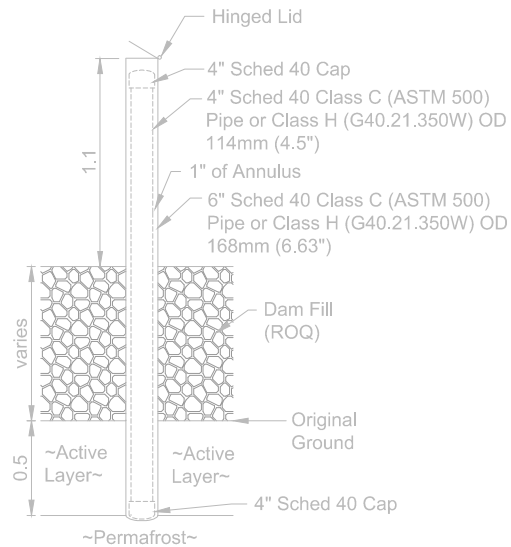
- No surfacing material placed on top of dam.
- Access road not built to design grade. Portions of access road do not meet the minimum 1m thickness requirements.



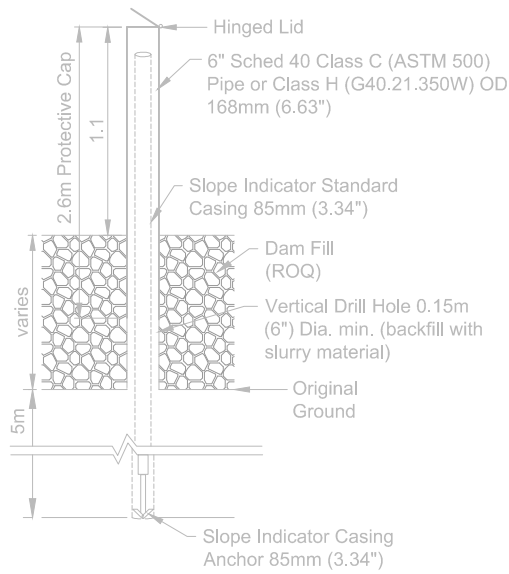
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								A ISSUED FOR REVIEW				LW EMR 23OCT10			
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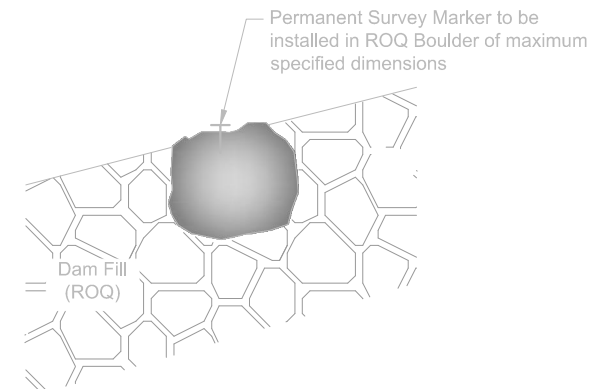
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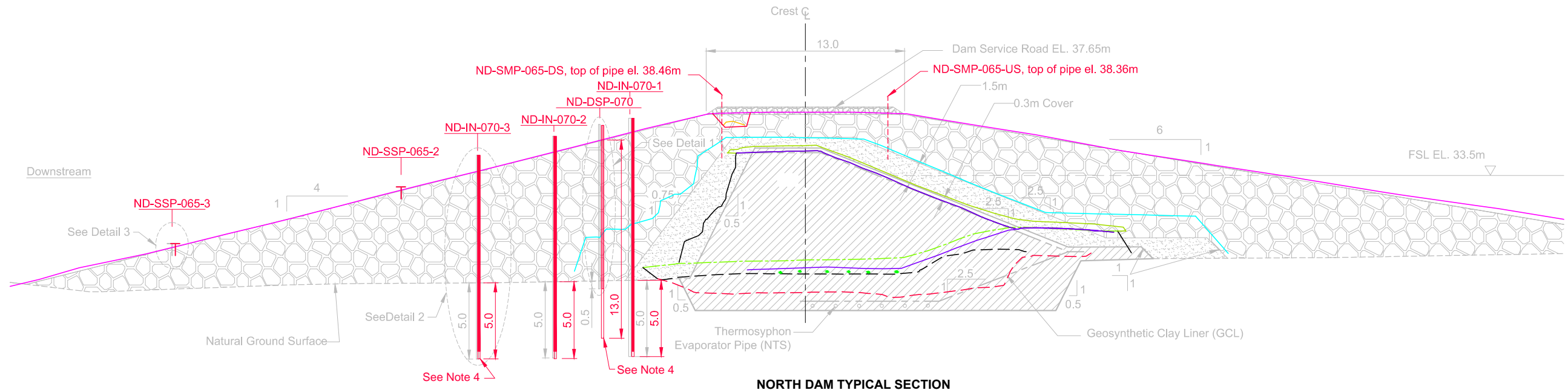
DETAIL 1
1 DEEP SETTLEMENT POINT INSTALLATION
Not to Scale
Installed as per design



DETAIL 2
2 INCLINOMETER INSTALLATION
Not to Scale
Installed as per design



DETAIL 3
3 SURFICIAL SURVEY POINT INSTALLATION
Not to Scale
Installed as per design



NORTH DAM TYPICAL SECTION



LEGEND

-----	Natural Ground		Core Material	-----	GCL As-built
-----	Geosynthetic Clay Liner (GCL)		Transition Material	-----	Core Material As-built
-----	Stratigraphic Boundary		Run of Quarry (ROQ)	-----	Core Material (2011) As-built
o	Thermosyphon Evaporator Pipe (NTS)		Surfacing Material	-----	Levelling Course (Core Material) As-built
			Bedrock	-----	Instrumentation Trench Cover As-built
			Peat	-----	Key Trench / Instrumentation Trench As-built
				-----	GCL Cover Material As-built
				-----	Transition Material As-built
				-----	ROQ Material As-built
				-----	Thermosyphon Evaporator Pipes As-built

NOTES

- Arc and resistance welding of the steel pipe to be in accordance of CSA standards W59 and W55.3, for all procedures and practices. Refer to CSA standard W48 [Clause 5.1.8 of CAN/CSA-S16-01 Limit States Design of Steel Structures] for welding electrodes.
- All monitoring points are to be clearly marked for easy identification according to HBML safety procedures.
- Construction shall be in accordance with the following Technical Specifications: Earthworks and Geotechnical Engineering, Hope Bay Project, Nunavut, Canada, Revision G - Issue for Construction.
- Inclinometer drill holes backfilled with wet core material. Deep settlement point drill holes backfilled with dry core material.

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																																								Doris North Project									
																														DRAWING TITLE:																			
																														North Dam																			
																														Typical Additional Instrumentation																			
																														Section and Details																			
																														HOPE BAY MINING LTD.																			
																														NEWMONT DRAWING NO.																			
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																														SHEET																			
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DRAWING NO.				DRAWING TITLE				DRAWING NO.				DRAWING TITLE			