

APPENDIX C
AS BUILT AND INFRASTRUCTURE MONITORING REPORTS

APPENDIX C.1.1

CRUSHER FACILITY FOOTPRINT EXPANSION – AS BUILT DRAWING



13 August 2018

Assol Kubeisinova
Technical Advisor, Nunavut Water Board
P.O. Box 119
Gjoa Haven, NU X0B 1J0

**RE: As Built Drawing: Crusher Pad Expansion
Type 'A' Water Licence 2AM-MRY1325, Modification Request No. 1**

This submission provides the as-built drawings (Attachment 1) for the Crusher Pad Expansion completed at the Mary River Project Mine Site, in accordance with the reporting requirements outlined Part G, Item 4 of Baffinland Iron Mines Corporation's (Baffinland) Type A Water Licence – 2AM-MRY1325 Amendment 1 (Type A Water Licence). This submission was prepared in support of Water Licence Modification No. 1 approved under Motion No. **2017-A1-007**.

This submission is also provided to address concerns raised by Crown Indigenous Relations and Northern Affairs Canada (CIRNAC) regarding the expansion of the Crusher Pad Sedimentation Pond. The attached as built confirms that the footprint of the Crusher Pad is less than the 107,500 m² catchment area on which the expanded pond design is based.

Please do not hesitate to contact the undersigned should you have any questions.

Regards,

A handwritten signature in black ink, appearing to read "Christopher Murray", written over a horizontal line.

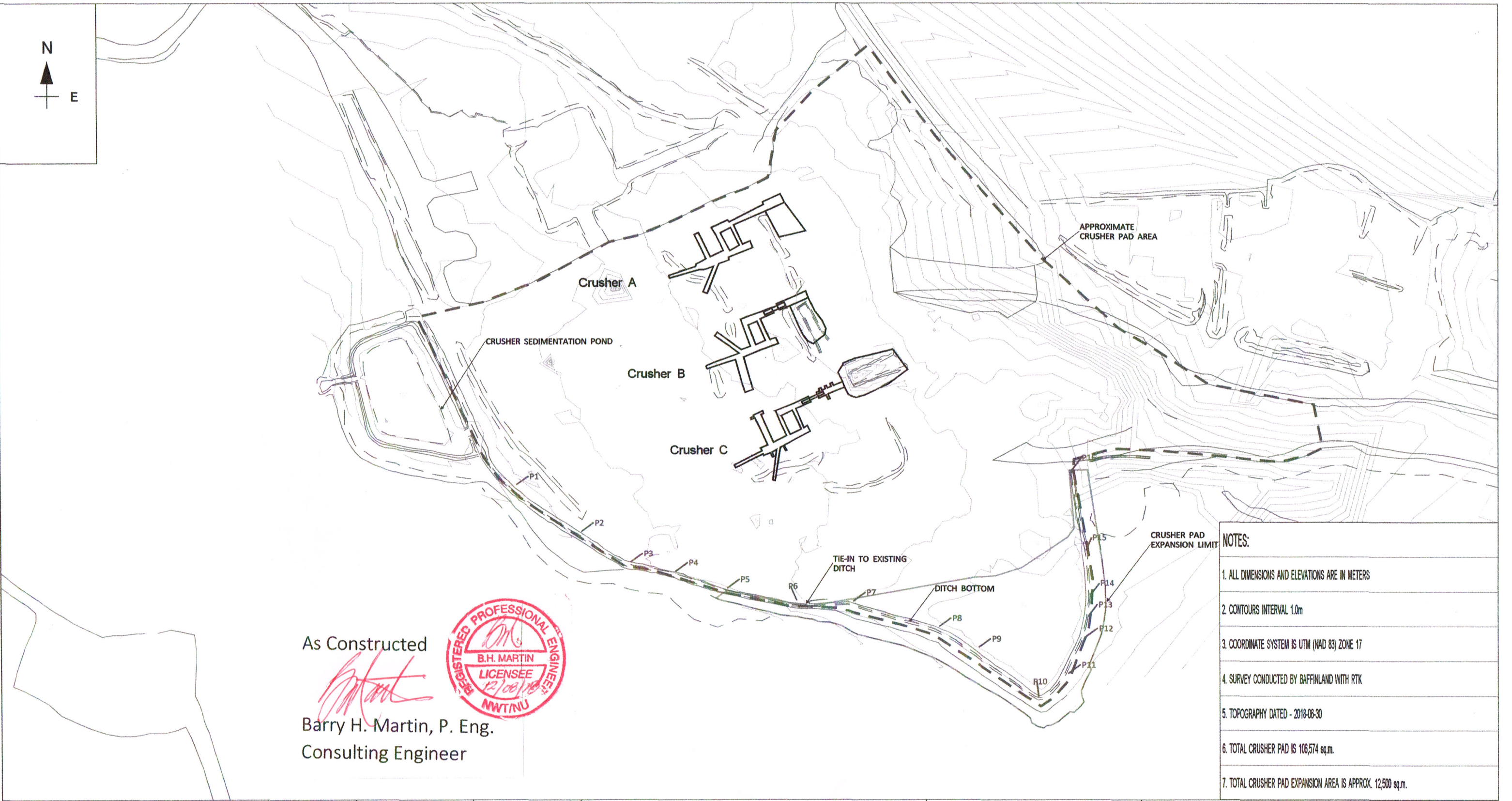
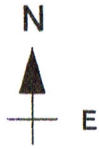
Christopher Murray
Environmental and Regulatory Compliance Manager

Attachments:

Attachment 1: As Built Drawing – Crusher Pad Expansion

cc. Karén Kharatyan (NWB)
Jonathan Mesher, Sarah Forte, Bridget Campbell (CIRNAC)
Fai Ndofor (QIA)
Megan Lord-Hoyle, Timothy Ray Sewell, William Bowden, Connor Devereaux, Andrew Vermeer
(Baffinland)

Attachment 1
As Built Drawing
Crusher Pad Expansion



As Constructed

Barry H. Martin, P. Eng.
Consulting Engineer



NOTES:

1. ALL DIMENSIONS AND ELEVATIONS ARE IN METERS
2. CONTOURS INTERVAL 1.0m
3. COORDINATE SYSTEM IS UTM (NAD 83) ZONE 17
4. SURVEY CONDUCTED BY BAFFINLAND WITH RTK
5. TOPOGRAPHY DATED - 2018-06-30
6. TOTAL CRUSHER PAD IS 106,574 sq.m.
7. TOTAL CRUSHER PAD EXPANSION AREA IS APPROX. 12,500 sq.m.

DATE:	ISSUED FOR	DRAWN BY:	APPROVED BY:
2018-07-31	ISSUED FOR REVIEW	RT	SF

STAMP/SEAL



LEGEND

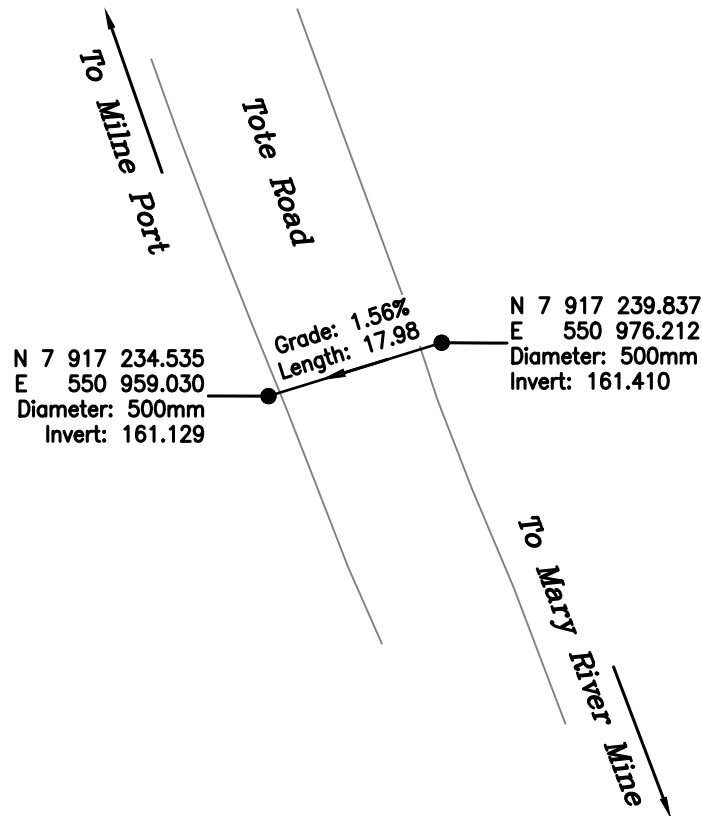
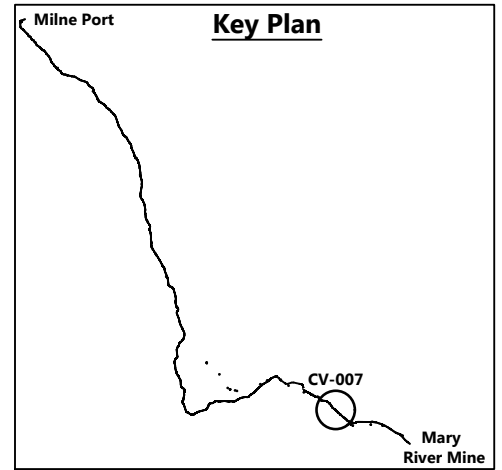
- CRUSEHR PAD EXPANSION
- TOP OF BANK
- BOTTOM OF BANK
- CRUSHER PAD AREA

SITE:
MARY RIVER MINE
DATE:
2018/07/31
PROJECT:
CRUSHER PAD EXPANSION
INTERCEPT DITCH AS-BUILT

APPENDIX C.1.2

CULVERT REPAIRS/REPLACEMENTS - AS BUILT DRAWINGS

UTM 17N
GRID NORTH
NAD83 CSRS (2002)
Geoid: HTv2.0



SURVEY CONTROL			
DESCRIPTION	NORTHING	EASTING	ELEVATION
ACL 010	7 915 188.464	554 091.614	169.670
P0001(3043)	7 914 647.313	557 930.082	170.983

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REV	YY/MM/DD	DESCRIPTION	DRWN	APVD
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-	-	-	-	-
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-	-	-	-	-

CLIENT:



TITLE:

**Topographic Survey
for Culvert CV-007
at 91km**

CLIENT NO:	-	FIELD:	AS	DATE:	18/10/28
PROJECT NO:	18SJ0057	DRWN:	NKP	DATE:	18/12/05
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SCALE:	1:750	APVD:	TD	DATE:	-

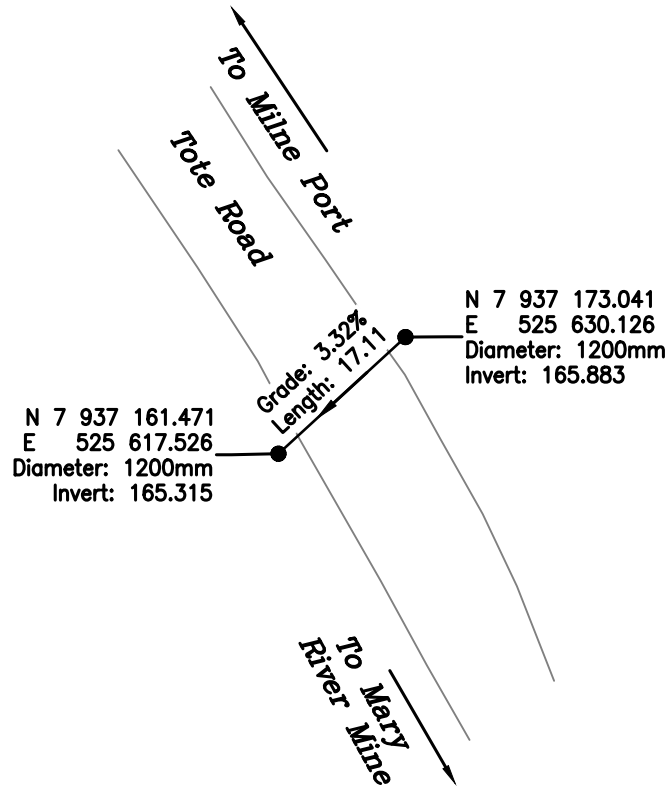
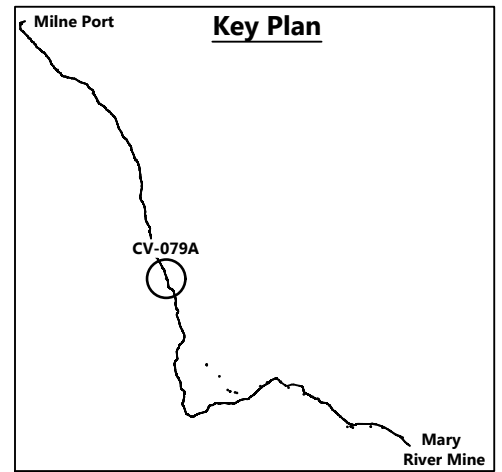
PROJECT:

**18SJ0057
Baffin Island, NU**

DWG NO:
18SJ0057-000-2126-030

REV:
0

UTM 17N
GRID NORTH
NAD83 CSRS (2002)
Geoid: HTv2.0



SURVEY CONTROL

DESCRIPTION	NORTHING	EASTING	ELEVATION
ACL 004	7 959 448.309	518 793.322	114.502
ACL 005	7 950 970.755	522 018.527	114.633
ACL 006	7 940 533.749	524 159.924	175.632

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CLIENT:



TITLE:

**Topographic Survey
for Culvert CV-079A
at 51km**

PROJECT:

**18SJ0057
Baffin Island, NU**

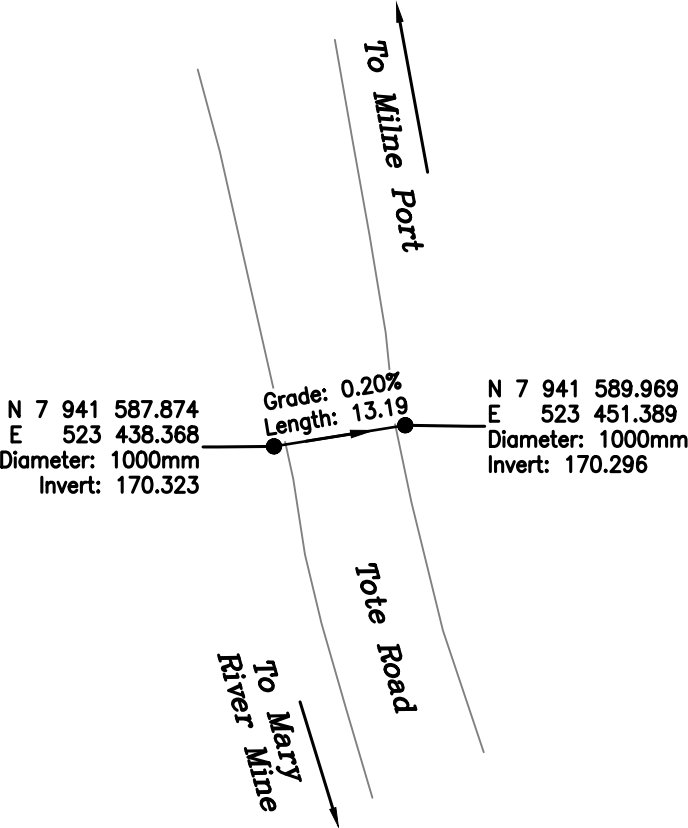
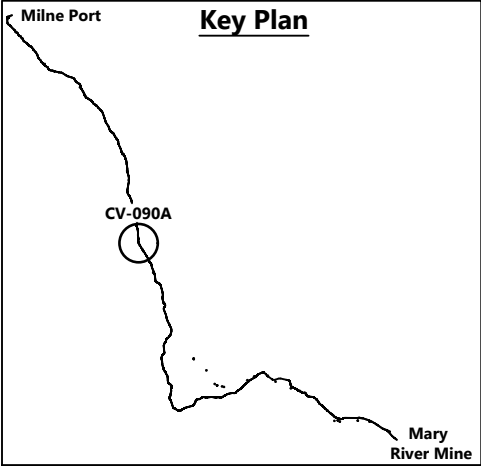
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CLIENT NO:	-	FIELD:	AS	DATE:	18/11/04
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SCALE:	1:750	APVD:	TD	DATE:	-

DWG NO:	18SJ0057-000-2126-013	REV:	0
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UTM 17N
GRID NORTH
NAD83 CSRS (2002)
Geoid: HTv2.0



SURVEY CONTROL			
DESCRIPTION	NORTHING	EASTING	ELEVATION
ACL 004	7 959 448.309	518 793.322	114.502
ACL 005	7 950 970.755	522 018.527	114.633
ACL 006	7 940 533.749	524 159.924	175.632

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REV	YY/MM/DD	DESCRIPTION	DRWN APVD

CLIENT:

Baffinland

Allnorth

TITLE:

**Topographic Survey
for Culvert CV-090A
at 45km**

CLIENT NO:	-	FIELD:	AS	DATE:	18/11/04
PROJECT NO:	18SJ0057	DRWN:	NKP	DATE:	18/12/05
DRAWING SIZE:	ANSI "A"	CHKD:	TD	DATE:	-
SCALE:	1:750	APVD:	TD	DATE:	-

PROJECT:

**18SJ0057
Baffin Island, NU**

DWG NO:	18SJ0057-000-2126-010	REV:	0
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UTM 17N
GRID NORTH
NAD83 CSRS (2002)
Geoid: HTv2.0

To Milne Port

Tote Road

To Mary
River Mine

N 7 944 199.803
E 523 102.211
Diameter: 1200mm
Invert: 147.855

Grade: 3.38%
Length: 21.10

N 7 944 199.256
E 523 123.305
Diameter: 1200mm
Invert: 148.569

N 7 944 189.035
E 523 103.438
Diameter: 1200mm
Invert: 147.642

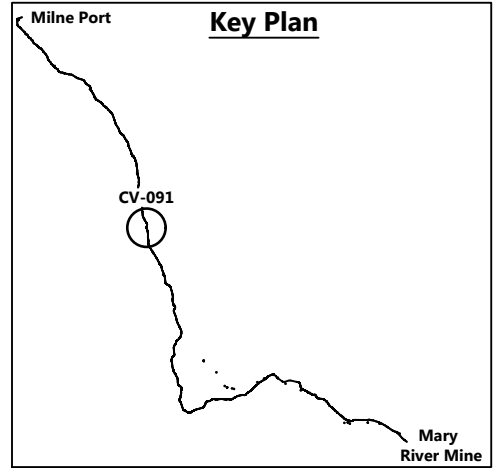
Grade: 4.96%
Length: 20.78

N 7 944 188.581
E 523 124.211
Diameter: 1200mm
Invert: 148.673

N 7 944 178.034
E 523 103.736
Diameter: 1200mm
Invert: 147.943

Grade: 4.01%
Length: 20.85

N 7 944 178.472
E 523 124.584
Diameter: 1200mm
Invert: 148.780



SURVEY CONTROL

DESCRIPTION	NORTHING	EASTING	ELEVATION
ACL 006	7 940 533.749	524 159.924	175.632
ACL 007	7 932 614.414	527 345.248	204.653
ACL 008	7 920 047.079	536 358.624	238.500

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CLIENT:



TITLE:

**Topographic Survey
for Culvert CV-091
at 43km**

PROJECT:

**18SJ0057
Baffin Island, NU**

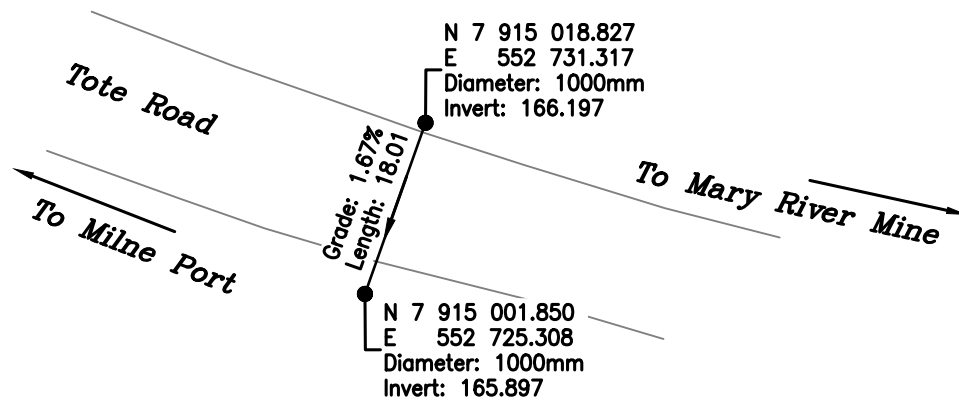
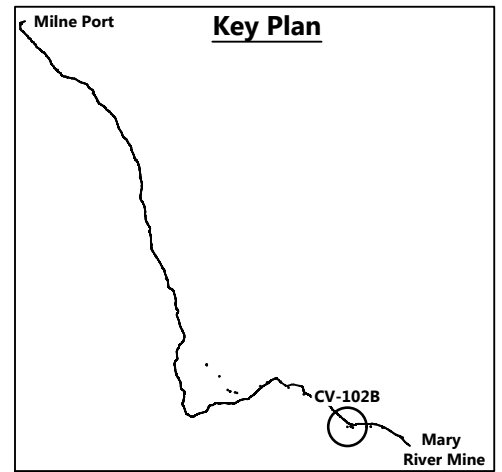
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DWG NO:	18SJ0057-000-2126-009	REV:	0
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UTM 17N
GRID NORTH
NAD83 CSRS (2002)
Geoid: HTv2.0



SURVEY CONTROL			
DESCRIPTION	NORTHING	EASTING	ELEVATION
ACL 010	7 915 188.464	554 091.614	169.670
P0001(3043)	7 914 647.313	557 930.082	170.983

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CLIENT:



TITLE:

**Topographic Survey
for Culvert CV-102B
at 93km**

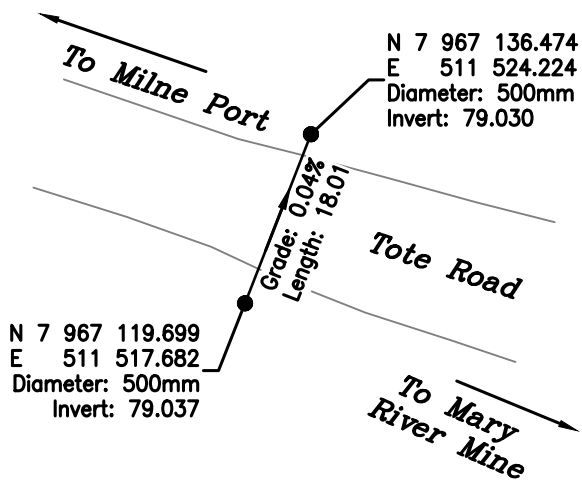
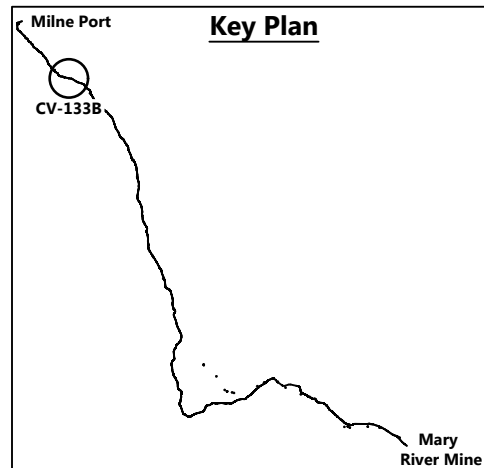
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SCALE:	1:750	APVD:	TD	DATE:	-

PROJECT:

**18SJ0057
Baffin Island, NU**

DWG NO:	18SJ0057-000-2126-031
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REV:	0
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SURVEY CONTROL			
DESCRIPTION	NORTHING	EASTING	ELEVATION
ACL 002	7 969 358.991	508 511.787	80.968
ACL 003	7 963 287.734	515 893.447	85.752
ACL 004	7 959 448.309	518 793.322	114.502

[illegible]

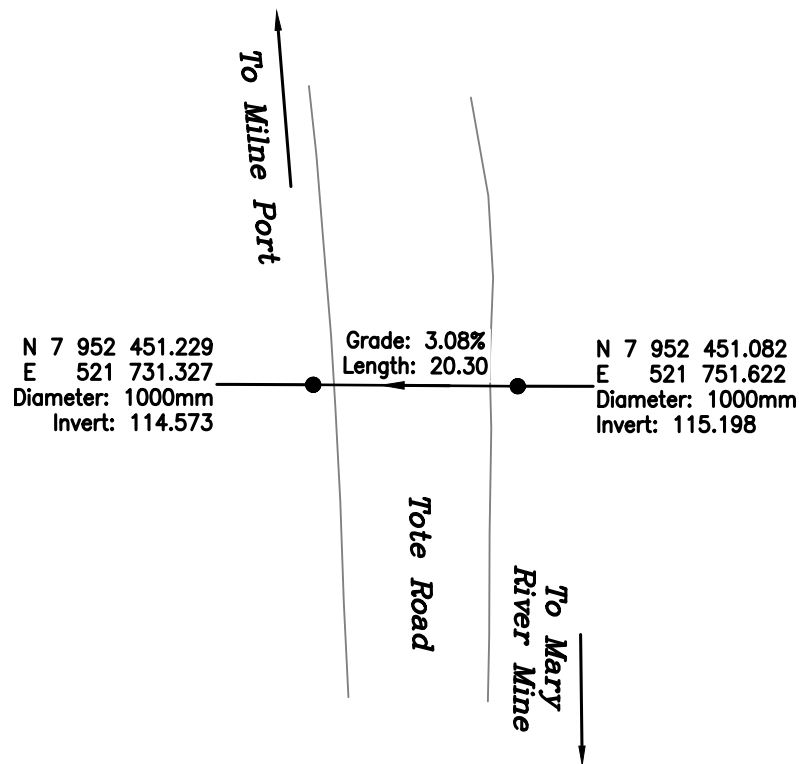
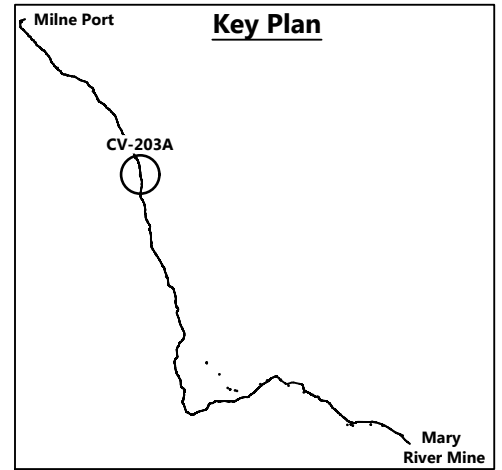
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DRAWING SIZE:	ANSI "A"	CHKD:	TD	DATE: -
SCALE:	1:750	APVD:	TD	DATE: -

18SJ0057
Baffin Island, NU

DWG NO:	REV:
18SJ0057-000-2126-001	0

UTM 17N
GRID NORTH
NAD83 CSRS (2002)
Geoid: HTv2.0



SURVEY CONTROL			
DESCRIPTION	NORTHING	EASTING	ELEVATION
ACL 005	7 950 970.755	522 018.527	114.633

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-	-	-	-	-
-	-	-	-	-

CLIENT:



TITLE:

**Topographic Survey
for Culvert CV-203A
at 34km**

CLIENT NO:	-	FIELD:	AS	DATE:	18/11/03
PROJECT NO:	18SJ0057	DRWN:	NKP	DATE:	18/12/05
DRAWING SIZE:	ANSI "A"	CHKD:	TD	DATE:	-
SCALE:	1:750	APVD:	TD	DATE:	-

PROJECT:

**18SJ0057
Baffin Island, NU**

DWG NO:	18SJ0057-000-2126-006
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REV:	0
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UTM 17N
GRID NORTH
NAD83 CSRS (2002)
Geoid: HTv2.0

To Milne Port

Tote Road

To Mary
River Mine

N 7 952 314.144
E 521 739.944
Diameter: 500mm
Invert: 109.449

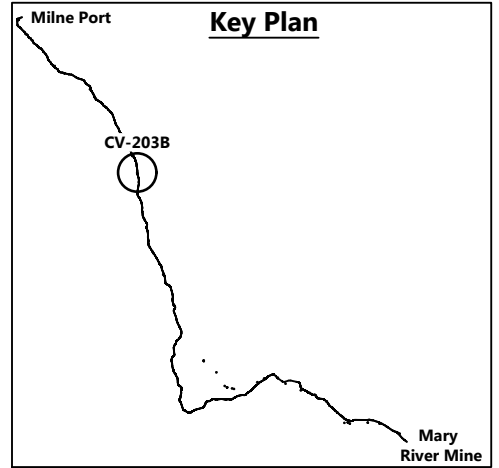
N 7 952 312.983
E 521 740.028
Diameter: 500mm
Invert: 109.499

Grade: 1.53%
Length: 15.76

Grade: 0.65%
Length: 15.46

N 7 952 311.946
E 521 755.552
Diameter: 500mm
Invert: 109.690

N 7 952 310.640
E 521 755.308
Diameter: 500mm
Invert: 109.600



SURVEY CONTROL

DESCRIPTION	NORTHING	EASTING	ELEVATION
ACL 005	7 950 970.755	522 018.527	114.633

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REV	YY/MM/DD	DESCRIPTION	DRWN	APVD

CLIENT:



TITLE:

**Topographic Survey
for Culvert CV-203B
at 34km**

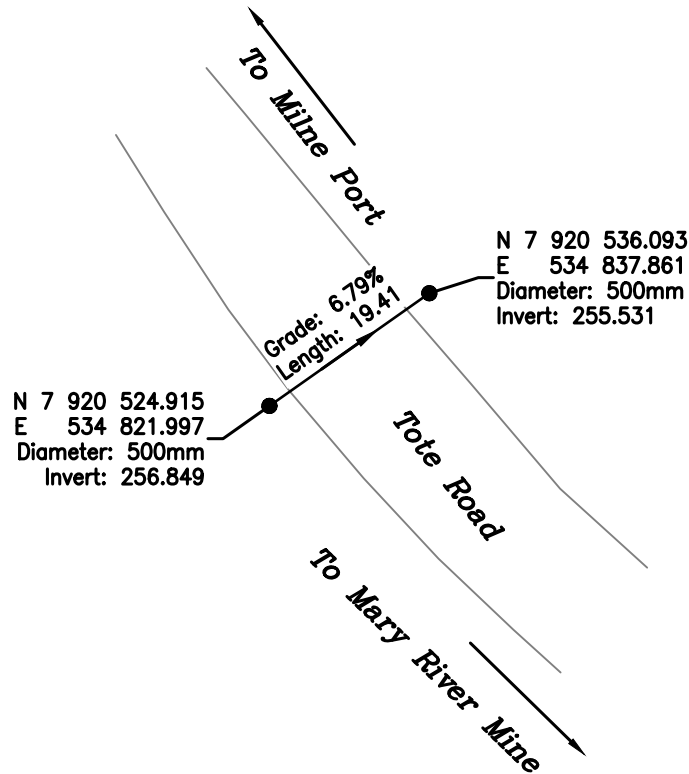
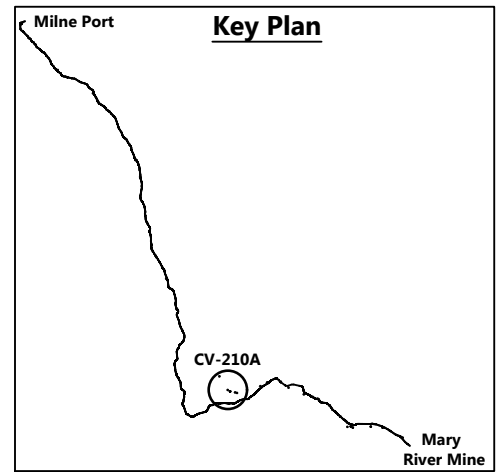
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DRAWING SIZE:	ANSI "A"	CHKD:	TD	DATE:	-
SCALE:	1:750	APVD:	TD	DATE:	-

PROJECT:

**18SJ0057
Baffin Island, NU**

DWG NO:	18SJ0057-000-2126-007	REV:	0
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UTM 17N
GRID NORTH
NAD83 CSRS (2002)
Geoid: HTv2.0



SURVEY CONTROL			
DESCRIPTION	NORTHING	EASTING	ELEVATION
ACL 008	7 920 047.079	536 358.624	238.500
ACL 009	7 920 241.719	544 619.570	182.680

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REV	YY/MM/DD	DESCRIPTION	DRWN	APVD

CLIENT:



TITLE:

**Topographic Survey
for Culvert CV-210A
at 72km**

CLIENT NO:	-	FIELD:	AS	DATE:	18/10/30
PROJECT NO:	18SJ0057	DRWN:	NKP	DATE:	18/12/05
DRAWING SIZE:	ANSI "A"	CHKD:	TD	DATE:	-
SCALE:	1:750	APVD:	TD	DATE:	-

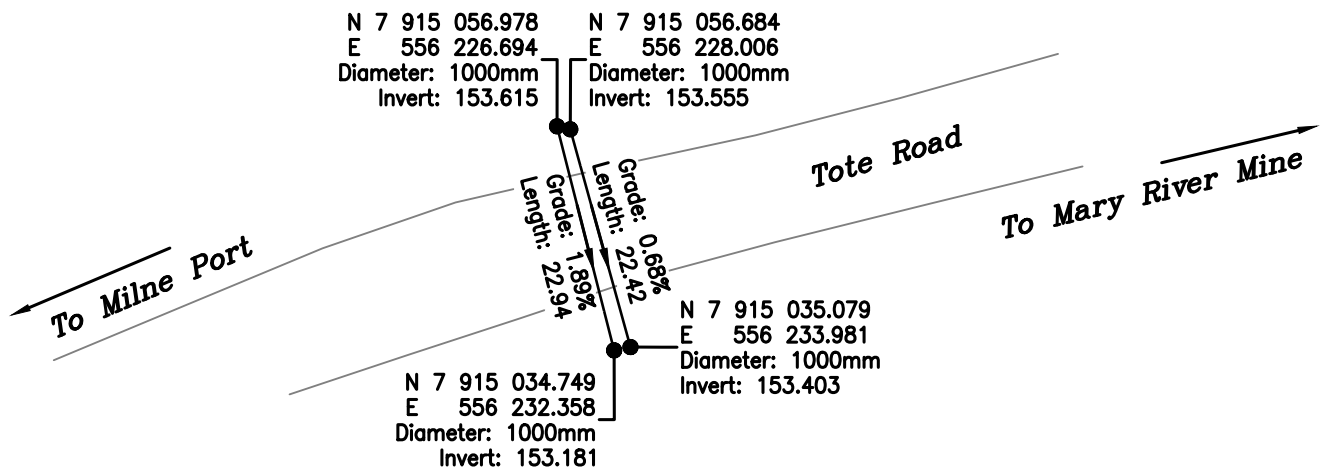
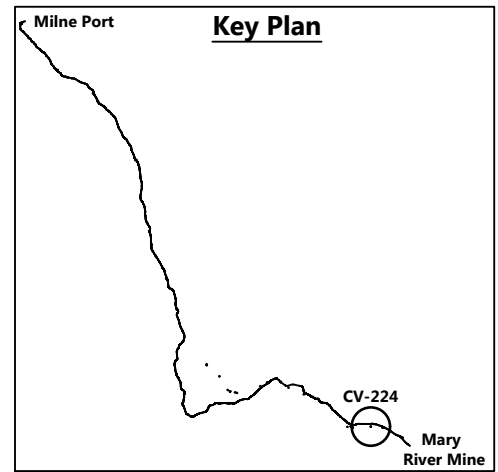
PROJECT:

**18SJ0057
Baffin Island, NU**

DWG NO:	18SJ0057-000-2126-019
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REV:	0
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UTM 17N
GRID NORTH
NAD83 CSRS (2002)
Geoid: HTv2.0



SURVEY CONTROL			
DESCRIPTION	NORTHING	EASTING	ELEVATION
P0001(3043)	7 914 647.313	557 930.082	170.983
MR1	7 913 406.463	561 204.758	198.911

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REV	YY/MM/DD	DESCRIPTION	DRWN	APVD

CLIENT:



TITLE:

**Topographic Survey
for Culvert CV-224
at 97.5km**

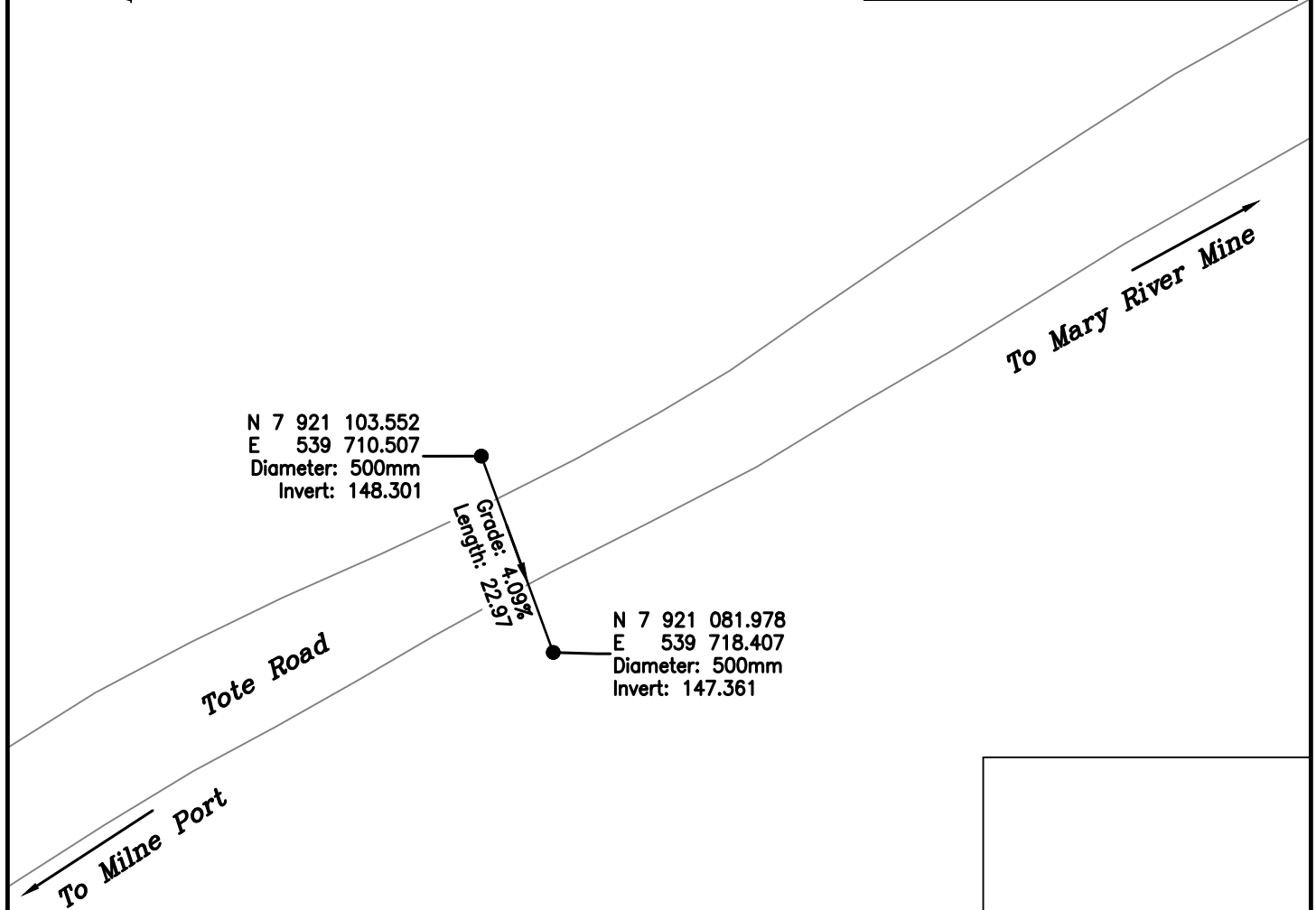
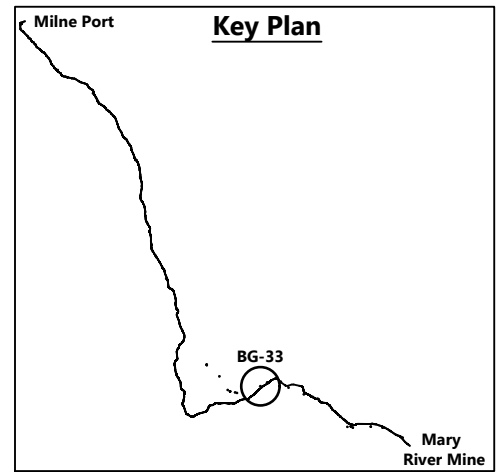
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SCALE:	1:750	APVD:	TD	DATE:	-

PROJECT:

**18SJ0057
Baffin Island, NU**

DWG NO:	18SJ0057-000-2126-034	REV:	0
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UTM 17N
GRID NORTH
NAD83 CSRS (2002)
Geoid: HTv2.0



SURVEY CONTROL			
DESCRIPTION	NORTHING	EASTING	ELEVATION
ACL 006	7 940 533.749	524 159.924	175.632
ACL 007	7 932 614.414	527 345.248	204.653
ACL 008	7 920 047.079	536 358.624	238.500

REV	YY/MM/DD	DESCRIPTION	DRWN	APVD
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-	-	-	-	-
-	-	-	-	-

CLIENT:

Baffinland

Allnorth

TITLE:			
Topographic Survey for Culvert BG-33 at 77km			
CLIENT NO:	-	FIELD:	AS
PROJECT NO:	18SJ0057	DRWN:	NKP
DRAWING SIZE:	ANSI "A"	CHKD:	TD
SCALE:	1:750	APVD:	TD
DATE:	18/11/06	DATE:	18/12/05

PROJECT:		REV:
18SJ0057		0
Baffin Island, NU		
DWG NO:	18SJ0057-000-2126-023	