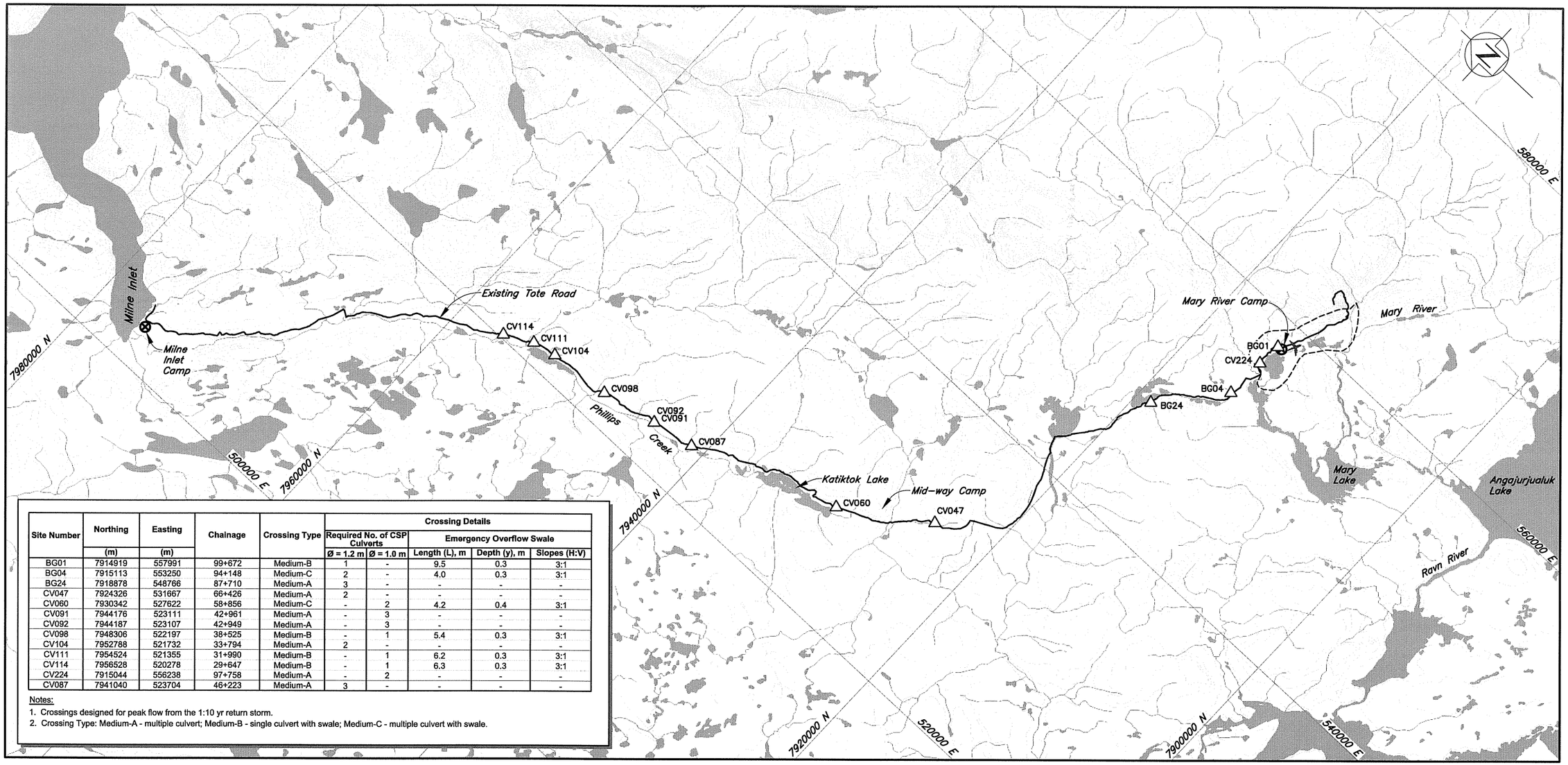

Site Number	Northing	Easting	Chainage	Crossing Type	Crossing Details				
					Required No. of CSP Culverts		Emergency Overflow Swale		
	(m)	(m)			Ø = 1.2 m	Ø = 1.0 m	Length (L), m	Depth (y), m	Slopes (H:V)
BG01	7914919	557991	99+672	Medium-B	1	-	9.5	0.3	3:1
BG04	7915113	553250	94+148	Medium-C	2	-	4.0	0.3	3:1
BG24	7918878	548766	87+710	Medium-A	3	-	-	-	-
CV047	7924326	531667	66+426	Medium-A	2	-	-	-	-
CV060	7930342	527622	58+856	Medium-C	-	2	4.2	0.4	3:1
CV091	7944176	523111	42+961	Medium-A	-	3	-	-	-
CV092	7944187	523107	42+949	Medium-A	-	3	-	-	-
CV098	7948306	522197	38+525	Medium-B	-	1	5.4	0.3	3:1
CV104	7952788	521732	33+794	Medium-A	2	-	-	-	-
CV111	7954524	521355	31+990	Medium-B	-	1	6.2	0.3	3:1
CV114	7956528	520278	29+647	Medium-B	-	1	6.3	0.3	3:1
CV224	7915044	556238	97+758	Medium-A	-	2	-	-	-
CV087	7941040	523704	46+223	Medium-A	3	-	-	-	-

Notes:
1. Crossings designed for peak flow from the 1:10 yr return storm.
2. Crossing Type: Medium-A - multiple culvert; Medium-B - single culvert with swale; Medium-C - multiple culvert with swale.

Scale 3 1.5 0 3 6 9 12 15 Kilometres

LEGEND:

- Water
- Mine Facilities area
- Existing Road
- Airstrip
- Exploration Camp Location
- Medium Crossing

NOTES:

1. Mapping is from Natural Resources Canada National Topographic Data Base 1:250000 and provided by Baffinland Iron Mines Corporation.
2. Contours are in metres. Contour interval varies.
3. Coordinate grid is shown in UTM (NAD 83) Zone 17 and is in metres.

DRG. NO.	DESCRIPTION
REFERENCE DRAWINGS	

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
REVISIONS						

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
0	13JUL07	ISSUED IN FINAL	KH/BP	MD		
REVISIONS						

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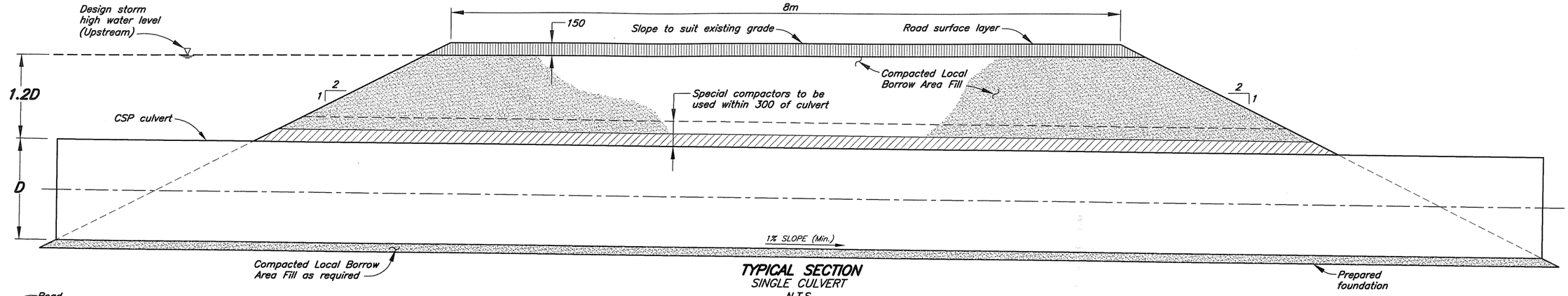
Baffinland Iron Mines Corporation

MARY RIVER PROJECT – BULK SAMPLING PROGRAM

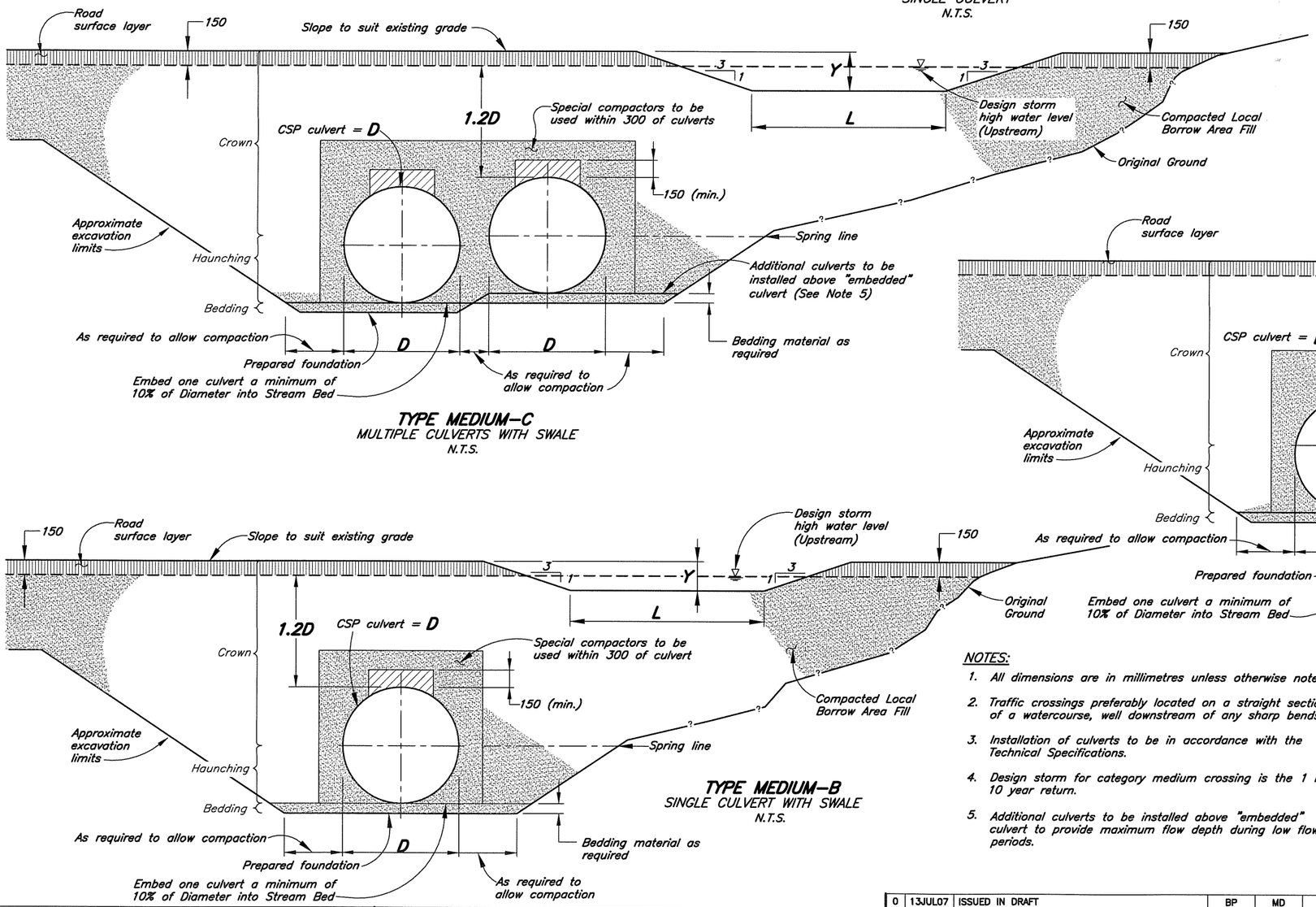
MEDIUM CROSSINGS LOCATIONS PLAN

PROJECT/ASSIGNMENT NO.	DRAWING NO.	REVISION
NB102-00181/10	420	0

XREF FILE(S): Base Map_Mine Route; Culverts and Crossings IMAGE FILE(S): Baffinland logo-big corp_b+W
NORTH BAY ON. CREATED BY: mdemers SAVED: I:\102-00181-10\Assignment\Vcad\Dwg\03_ISSUED IN FINAL_REV-0\420R0. 7/12/2007 9:51:59 AM PRINTED: 7/12/2007 9:52:53 AM. Layout1, rjohnson

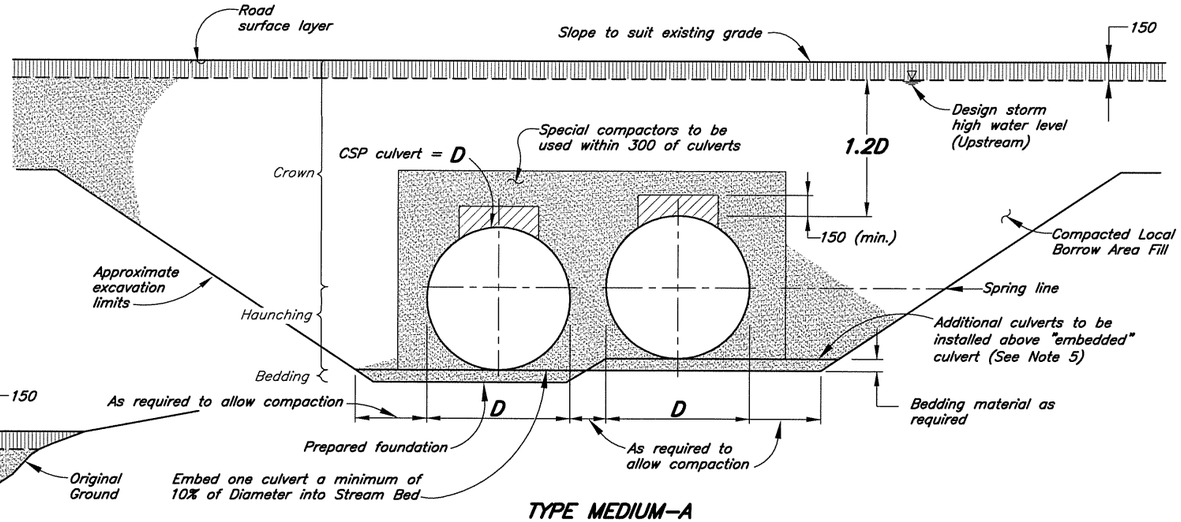


TYPICAL SECTION
SINGLE CULVERT
N.T.S.



TYPE MEDIUM–C
MULTIPLE CULVERTS WITH SWALE
N.T.S.

TYPE MEDIUM–B
SINGLE CULVERT WITH SWALE
N.T.S.



TYPE MEDIUM–A
MULTIPLE CULVERTS
N.T.S.

LEGEND:

- Compacted Local Borrow Area Fill
- Loose Local Borrow Area Fill
- Road surfacing material

NOTES:

1. All dimensions are in millimetres unless otherwise noted.
2. Traffic crossings preferably located on a straight section of a watercourse, well downstream of any sharp bends.
3. Installation of culverts to be in accordance with the Technical Specifications.
4. Design storm for category medium crossing is the 1 in 10 year return.
5. Additional culverts to be installed above "embedded" culvert to provide maximum flow depth during low flow periods.

DRG. NO.	DESCRIPTION
REFERENCE DRAWINGS	

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
REVISIONS						

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
0	13JUL07	ISSUED IN DRAFT	BP	MD		
REVISIONS						

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Baffinland IRON MINES CORPORATION

MARY RIVER PROJECT – BULK SAMPLING PROGRAM

MEDIUM CROSSINGS
TYPICAL SECTIONS AND DETAILS

PROJECT/ASSIGNMENT NO.	DRAWING NO.	REVISION
NB102–00181/10	421	0

XREF FILE(S): IMAGE FILE(S): Baffinland logo-big corp_b+w
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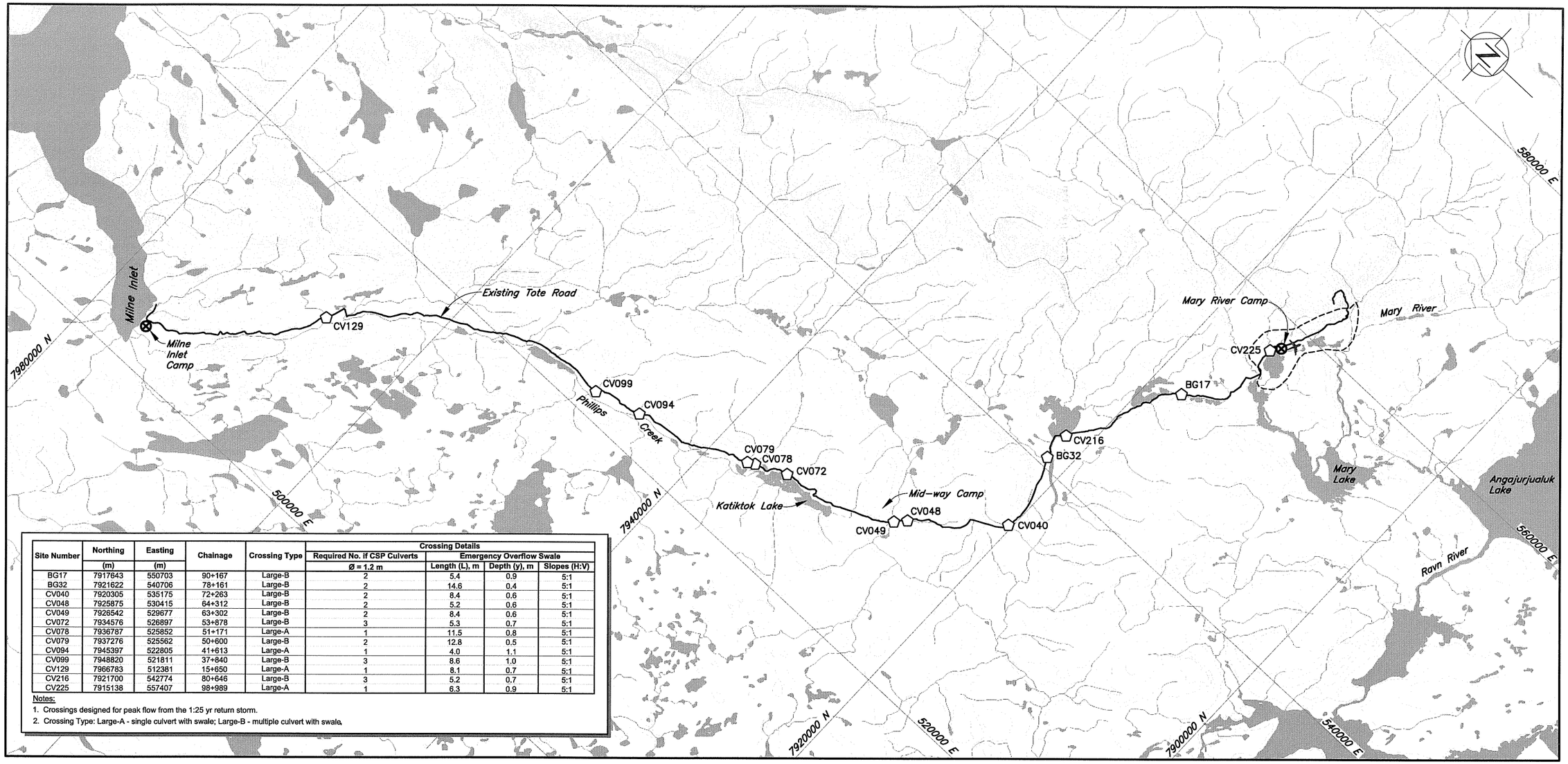

Site Number	Northing (m)	Easting (m)	Chainage	Crossing Type	Crossing Details: Required No. if CSP Culverts Ø = 1.2 m	Emergency Overflow Swale: Length (L), m	Depth (y), m	Slopes (H:V)
BG17	7917643	550703	90+167	Large-B	2	5.4	0.9	5:1
BG32	7921622	540706	78+161	Large-B	2	14.6	0.4	5:1
CV040	7920305	535175	72+263	Large-B	2	8.4	0.6	5:1
CV048	7925875	530415	64+312	Large-B	2	5.2	0.6	5:1
CV049	7926542	529677	63+302	Large-B	2	8.4	0.6	5:1
CV072	7934576	526897	53+878	Large-B	3	5.3	0.7	5:1
CV078	7936787	525852	51+171	Large-A	1	11.5	0.8	5:1
CV079	7937276	525562	50+600	Large-B	2	12.8	0.5	5:1
CV094	7945397	522805	41+613	Large-A	1	4.0	1.1	5:1
CV099	7948820	521811	37+840	Large-B	3	8.6	1.0	5:1
CV129	7966783	512381	15+650	Large-A	1	8.1	0.7	5:1
CV216	7921700	542774	80+646	Large-B	3	5.2	0.7	5:1
CV225	7915138	557407	98+989	Large-A	1	6.3	0.9	5:1

Notes:
1. Crossings designed for peak flow from the 1:25 yr return storm.
2. Crossing Type: Large-A - single culvert with swale; Large-B - multiple culvert with swale.

LEGEND:
- Water
- Mine Facilities area
- Existing Road
- Airstrip
- Exploration Camp Location
- Large Crossing

NOTES:
1. Mapping is from Natural Resources Canada National Topographic Data Base 1:250000 and provided by Baffinland Iron Mines Corporation.
2. Contours are in metres. Contour interval varies.
3. Coordinate grid is shown in UTM (NAD 83) Zone 17 and is in metres.

Scale 3 1.5 0 3 6 9 12 15 Kilometres

DRG. NO.	DESCRIPTION
REFERENCE DRAWINGS	

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
REVISIONS						

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
0	13JUL07	ISSUED IN FINAL	KH/BP	MD		
REVISIONS						

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MARY RIVER PROJECT – BULK SAMPLING PROGRAM

LARGE CROSSINGS LOCATIONS PLAN

PROJECT/ASSIGNMENT NO.	DRAWING NO.	REVISION
NB102-00181/10	430	0

XREF FILE(S): Base Map_Mine Route; Culverts and Crossings IMAGE FILE(S): Baffinland logo-big corp_b+W
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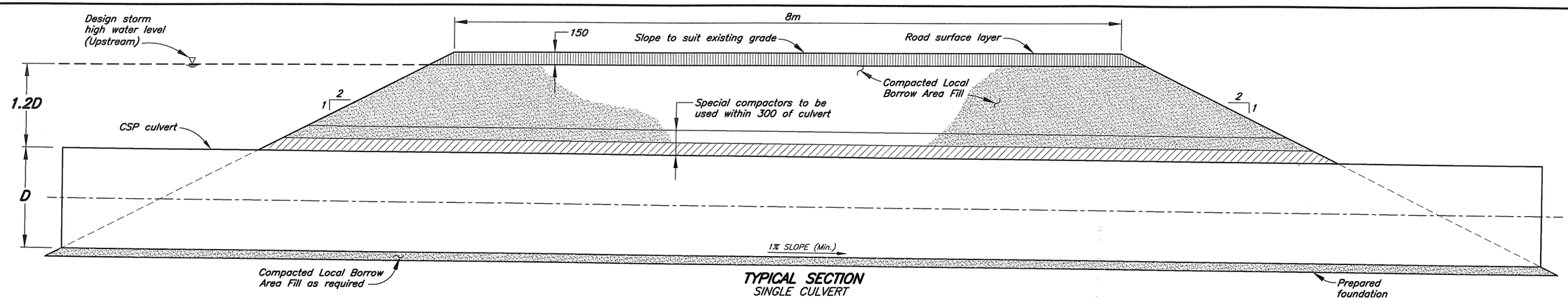
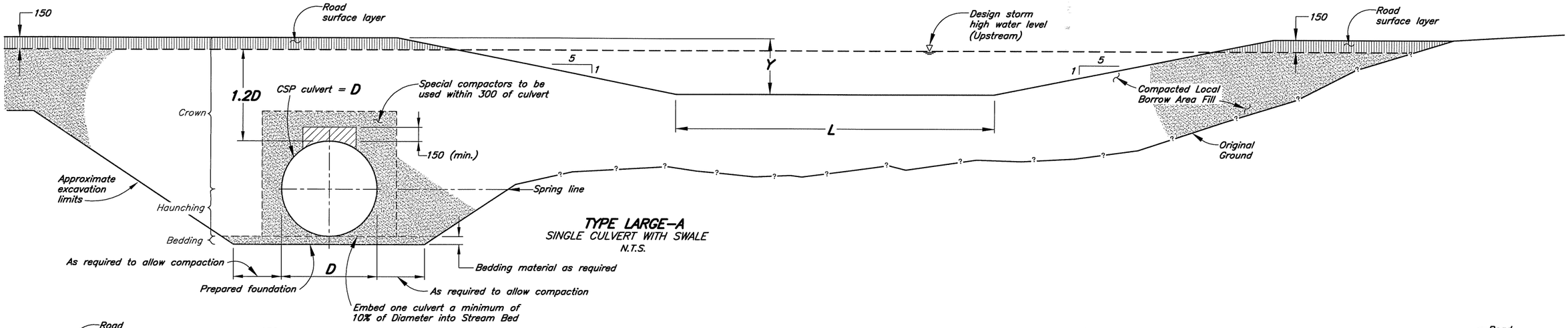
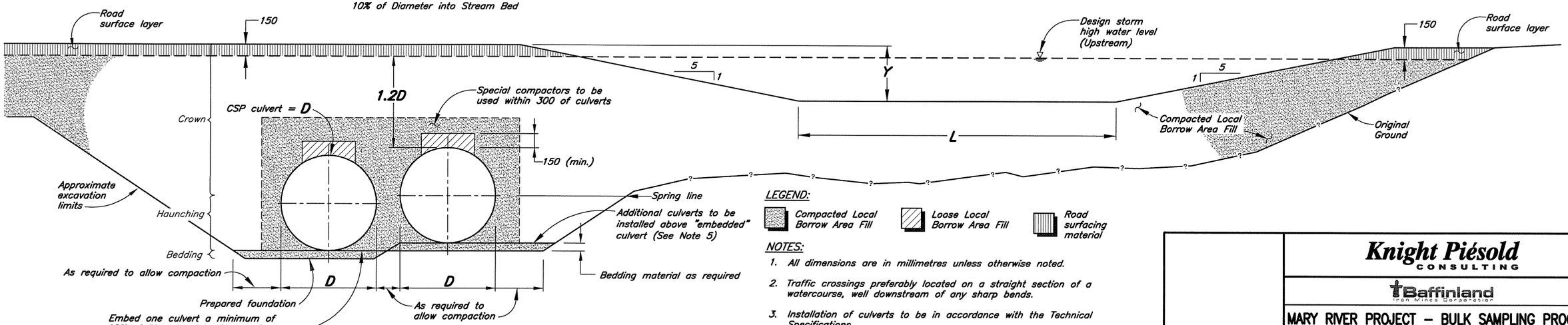


TYPICAL SECTION
SINGLE CULVERT
N.T.S.



TYPE LARGE–A
SINGLE CULVERT WITH SWALE
N.T.S.



TYPE LARGE–B
MULTIPLE CULVERTS WITH SWALE
N.T.S.

LEGEND:

- Compacted Local Borrow Area Fill
- Loose Local Borrow Area Fill
- Road surfacing material

NOTES:

1. All dimensions are in millimetres unless otherwise noted.
2. Traffic crossings preferably located on a straight section of a watercourse, well downstream of any sharp bends.
3. Installation of culverts to be in accordance with the Technical Specifications.
4. Design storm for category large crossing is the 1 in 25 year return.
5. Additional culverts to be installed above "embedded" culvert to provide maximum flow depth during low flow periods.

DRG. NO.	DESCRIPTION
REFERENCE DRAWINGS	

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
REVISIONS						

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
0	13JUL07	ISSUED IN FINAL	BP	MD		
REVISIONS						

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MARY RIVER PROJECT – BULK SAMPLING PROGRAM

LARGE CROSSINGS TYPICAL SECTIONS AND DETAILS

PROJECT/ASSIGNMENT NO.	DRAWING NO.	REVISION
NB102–00181/10	431	0

XREF FILE(S): IMAGE FILE(S): Baffinland logo-big corp_b+w
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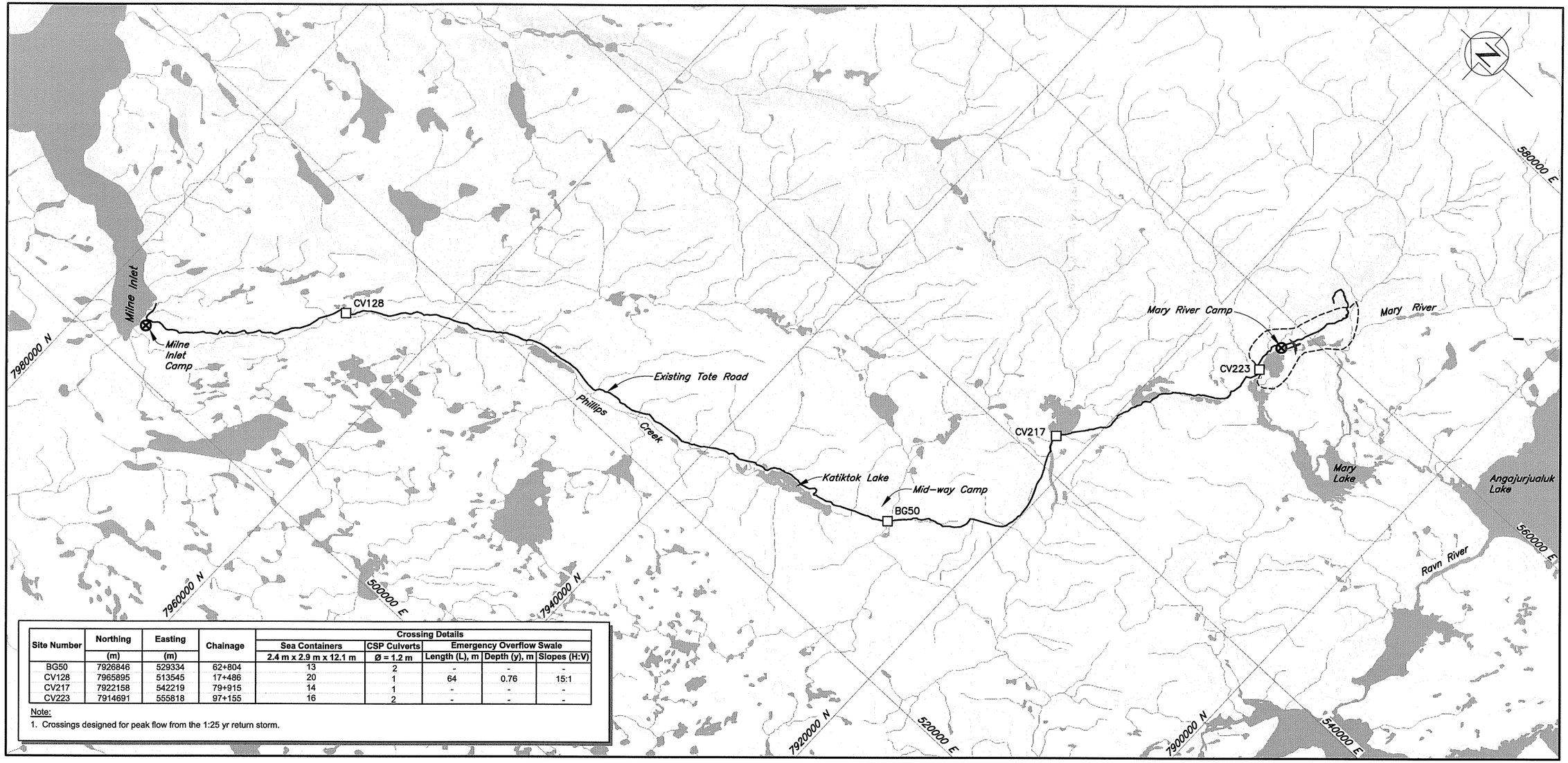

Site Number	Northing	Easting	Chainage	Crossing Details				
				Sea Containers	CSP Culverts	Emergency Overflow Swale		
	(m)	(m)		2.4 m x 2.9 m x 12.1 m	Ø = 1.2 m	Length (L), m	Depth (y), m	Slopes (H:V)
BG50	7926846	529334	62+804	13	2	-	-	-
CV128	7965895	513545	17+486	20	1	64	0.76	15:1
CV217	7922158	542219	79+915	14	1	-	-	-
CV223	7914691	555818	97+155	16	2	-	-	-

Note:

1. Crossings designed for peak flow from the 1:25 yr return storm.

LEGEND:

- Water
- Mine Facilities area
- Existing Road
- Airstrip
- Exploration Camp Location
- Extra-Large Crossing

NOTES:

1. *Mapping is from Natural Resources Canada National Topographic Data Base 1:250000 and provided by Baffinland Iron Mines Corporation.*
2. *Contours are in metres. Contour interval varies.*
3. *Coordinate grid is shown in UTM (NAD 83) Zone 17 and is in metres.*

Scale 3 1.5 0 3 6 9 12 15 Kilometres

DRG. NO.	DESCRIPTION
REFERENCE DRAWINGS	

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
REVISIONS						

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
0	13JUL07	ISSUED IN FINAL	KH/BP	MD		
REVISIONS						

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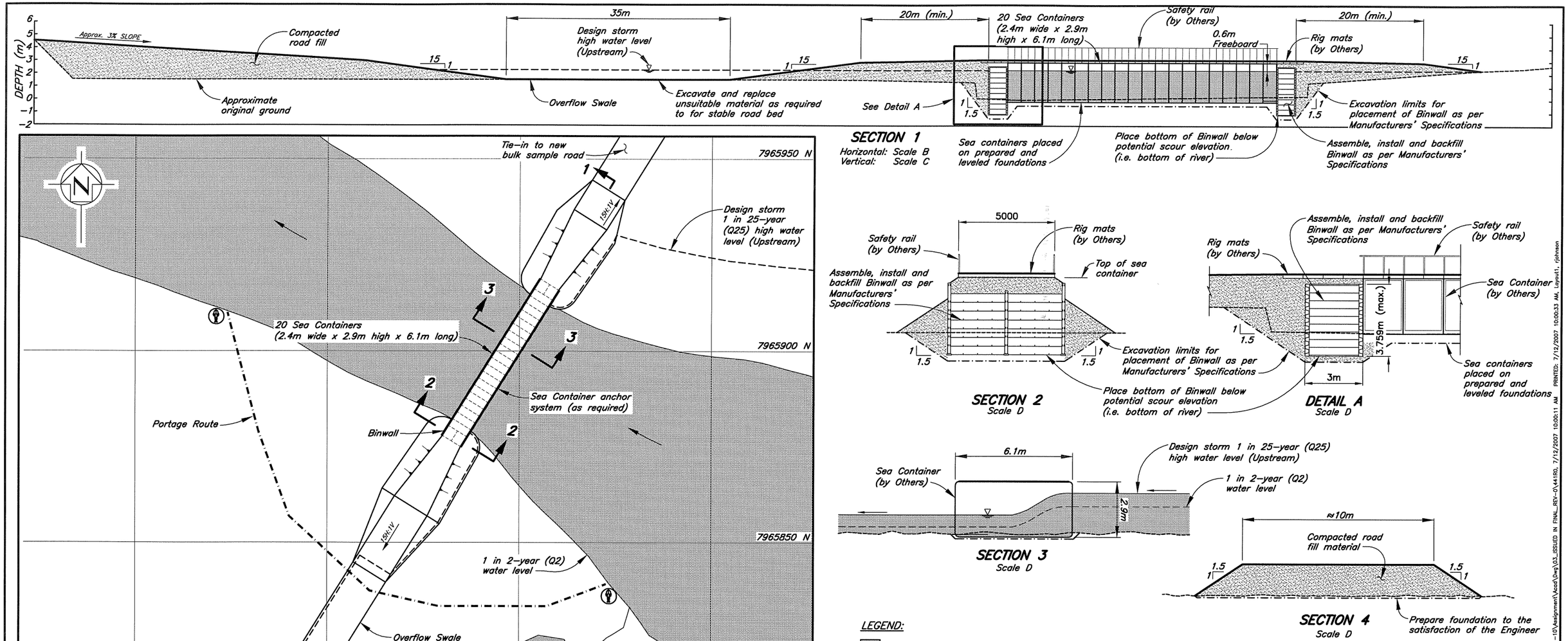
MARY RIVER PROJECT – BULK SAMPLING PROGRAM

EXTRA-LARGE CROSSINGS LOCATIONS PLAN

PROJECT/ASSIGNMENT NO.	DRAWING NO.	REVISION
NB102-00181/10	440	0

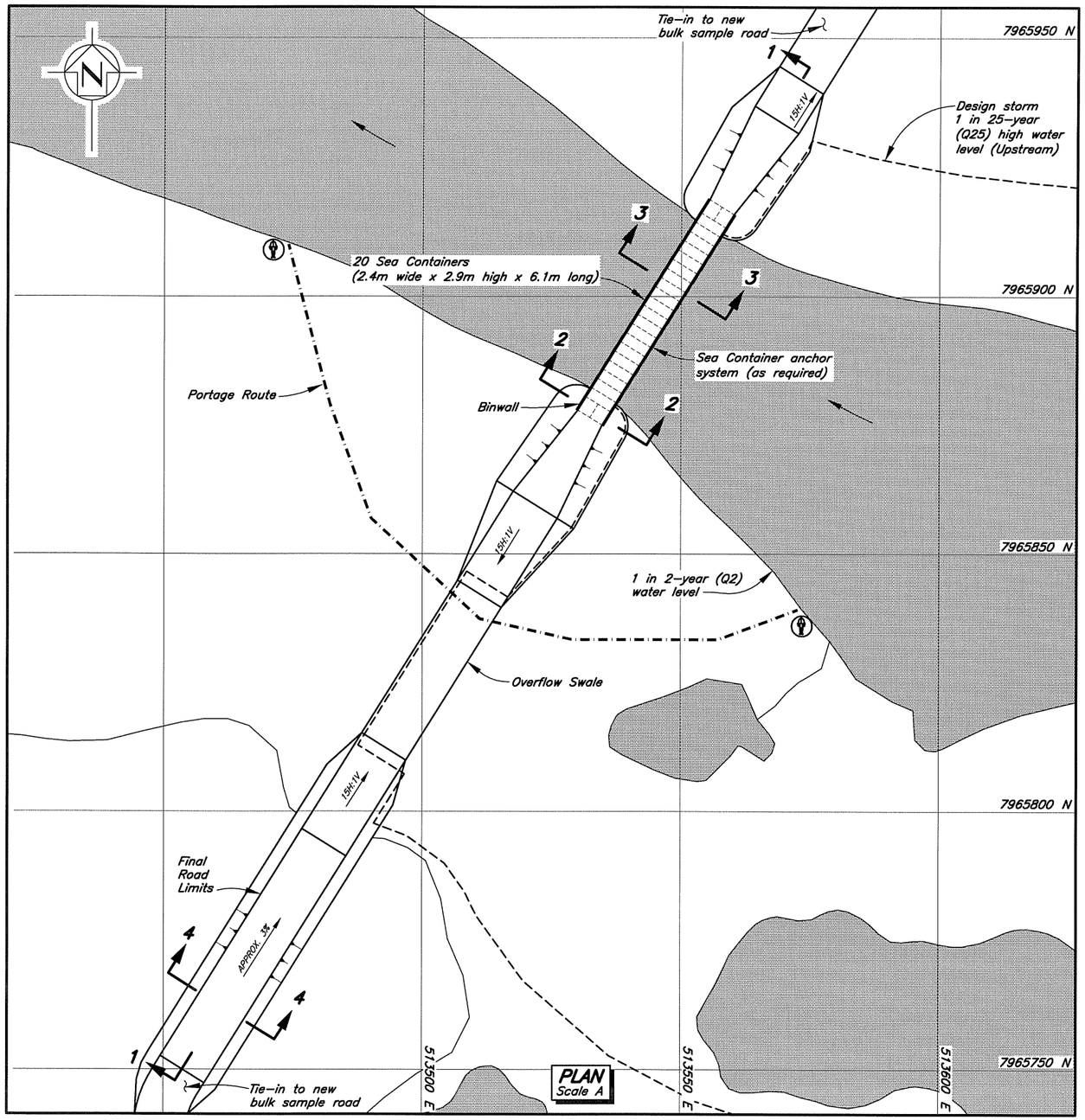
XREF FILE(S): Base Map_Mine Route; Culverts and Crossings IMAGE FILE(S): Baffinland logo-big corp_bs+W

NORTH BAY ON. CREATED BY: mdemers SVED: I:\102-00181-10\Assignment\Acad\Dwg\03_ISSUED IN FINAL_REV-0\440R0, 7/12/2007 9:59:04 AM PRINTED: 7/12/2007 9:59:33 AM, Layout1, rjohnson



SECTION 1

Horizontal: Scale B
Vertical: Scale C



PLAN

Scale A

SECTION 2

Scale D

DETAIL A

Scale D

SECTION 3

Scale D

SECTION 4

Scale D

LEGEND:

- Water
- Compacted road fill
- Foundation preparation limits
- Original ground approx.
- Portage Route
- Portage Sign

NOTES:

1. Mapping provided by Eagle Mapping (2006).
2. Contours are in metres, contour interval is 5 metres.
3. Original ground profile determined from initial site assessment of crossings.
4. Design storm for extra large category crossing is 1 in 25–year (Q25) return. The 1 in 2–year (Q2) return water level is also shown.
5. All installations and construction to be carried out in accordance with the Technical Specifications.
6. Sea Containers to be designed by Others.
7. Binwalls to consist of Standard Marine Binwall Components.

Scale A: 10 5 0 10 20 30 40 50 M
Scale B: 6 3 0 5 10 15 20 25 30 M
Scale C: 3 0 3 6 9 12 15 M
Scale D: 2 1 0 2 4 6 8 10 M

DRG. NO.	DESCRIPTION

REFERENCE DRAWINGS

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
0	13JUL07	ISSUED IN FINAL	BP	MD/SIR		

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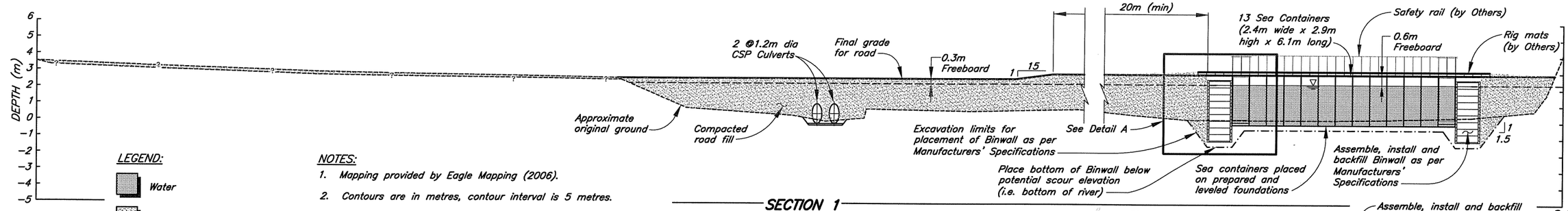
Baffinland Iron Mines Corporation

MARY RIVER PROJECT – BULK SAMPLING PROGRAM

EXTRA–LARGE CROSSING CV128 PLAN AND SECTIONS

P/A NO.	DRG. NO.	REV.
NB102–00181/10	441	0

XREF FILE(S): binwall IMAGE FILE(S): Baffinland logo–big corp_b+w Baffinland logo–big corp_b+w Baffinland logo–big corp_b+w
NORTH BAY ON. CREATED BY: mdemers SAVED: L:\102–00181–10\Assignment\Acad\Dwg\03_ISSUED IN FINAL_REV–0\441RD. 7/12/2007 10:00:11 AM PRINTED: 7/12/2007 10:00:33 AM Layout1, rjohnson



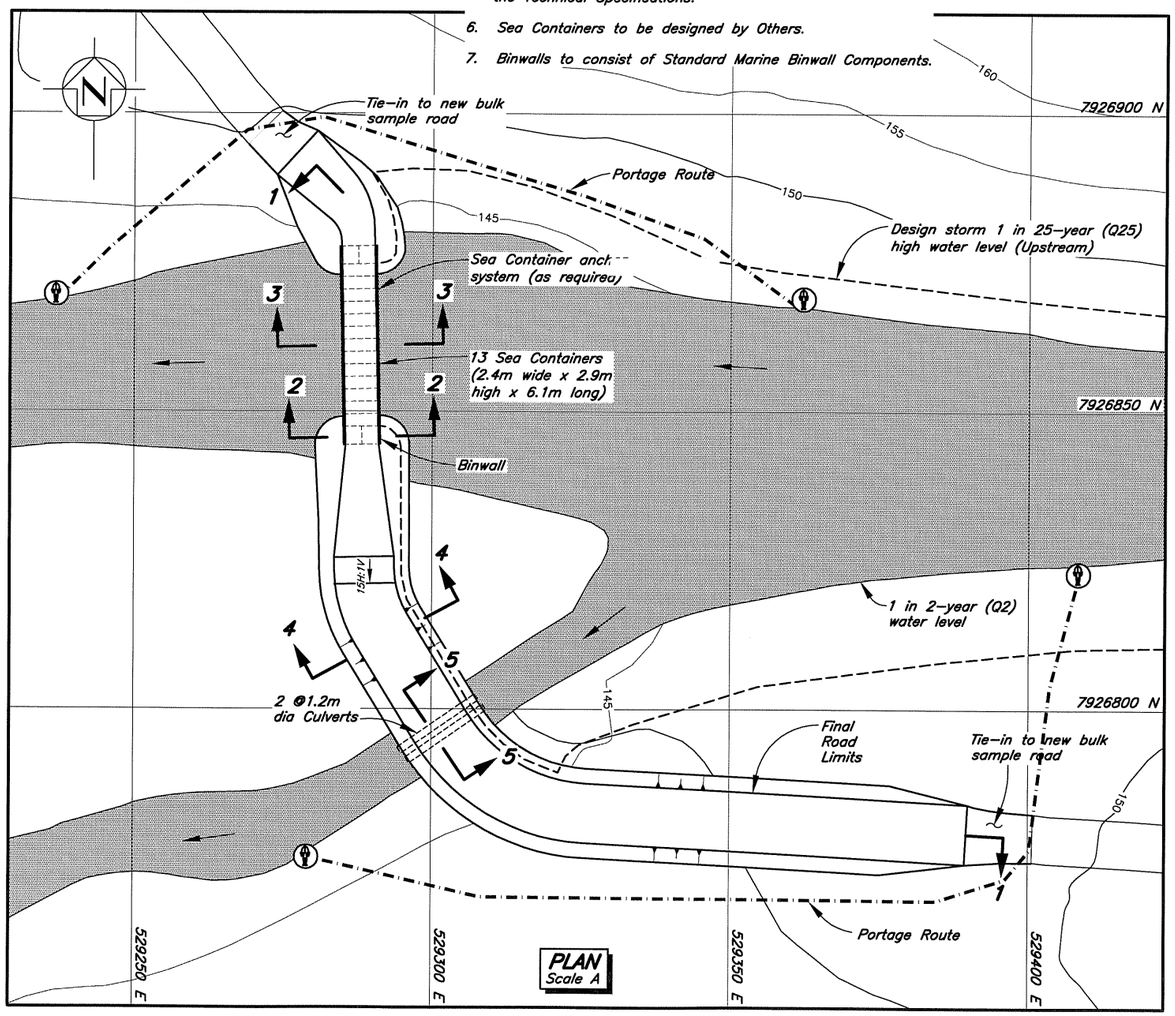
SECTION 1
Horizontal: Scale B
Vertical: Scale C

LEGEND:

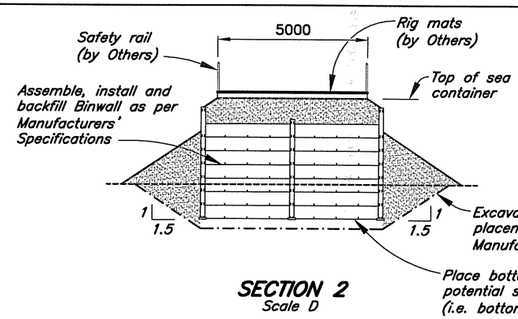
- Water
- Compacted road fill
- Foundation preparation limits
- Original ground approx.
- Portage Route
- Portage Sign

NOTES:

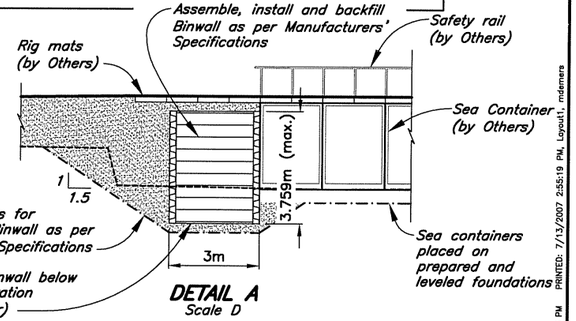
1. Mapping provided by Eagle Mapping (2006).
2. Contours are in metres, contour interval is 5 metres.
3. Original ground profile determined from initial site assessment of crossings.
4. Design storm for extra large category crossing is 1 in 25–year (Q25) return. The 1 in 2–year (Q2) return water level is also shown.
5. All installations and construction to be carried out in accordance with the Technical Specifications.
6. Sea Containers to be designed by Others.
7. Binwalls to consist of Standard Marine Binwall Components.



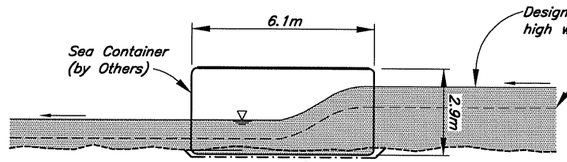
PLAN
Scale A



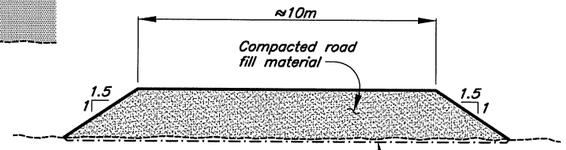
SECTION 2
Scale D



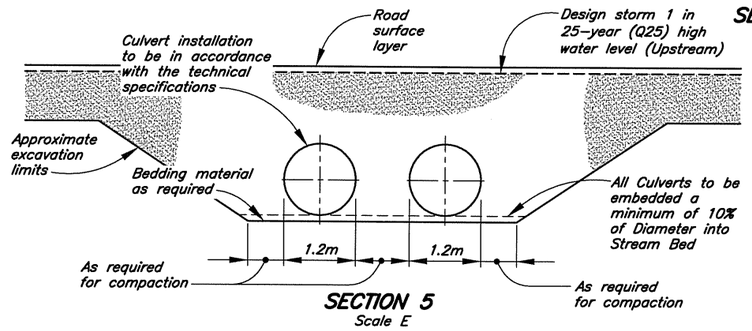
DETAIL A
Scale D



SECTION 3
Scale D



SECTION 4
Scale D



SECTION 5
Scale E

Scale A: 10 5 0 10 20 30 40 50 M
Scale B: 5 2.5 0 5 10 15 20 25 M
Scale C: 2.5 0 2.5 5 7.5 10 12.5 M
Scale D: 2 1 0 2 4 6 8 10 M
Scale E: 1 0.5 0 1 2 3 4 5 M

DRG. NO.	DESCRIPTION
REFERENCE DRAWINGS	

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
REVISIONS						

REV.	DATE	DESCRIPTION	DESIGN	DRAWN	CHK'D	APP'D
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Knight Piésold CONSULTING

Baffinland Iron Mines Corporation

MARY RIVER PROJECT – BULK SAMPLING PROGRAM

EXTRA–LARGE CROSSING BG50 PLAN AND SECTIONS

PROJECT/ASSIGNMENT NO.	DRAWING NO.	REVISION
NB102–00181/10	442	0

XREF FILE(S): Major Crossings Mapping; binwall IMAGE FILE(S): Baffinland logo–big corp_b+W Baffinland logo–big corp_b+W Baffinland logo–big corp_b+W
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