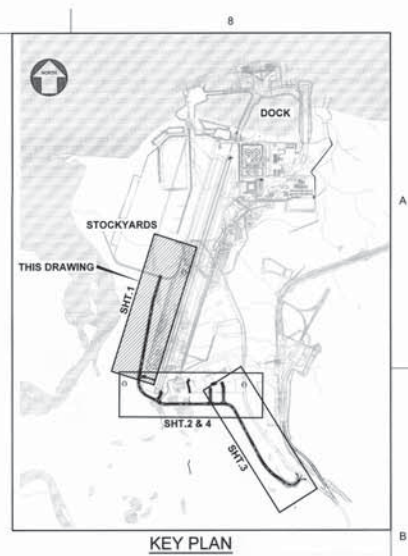


Attachment 12.6

Milne Port Southern Bypass Road Drawings

(4 Pages)



1. LIDAR SURVEY PROVIDED BY PHOTSAT (2016)
2. CO-ORDINATE GRID IS SHOWN IN UTM (NAD83) ZONE 11 AND IS IN METERS.
3. CONTOURS ARE IN METERS. CONTOUR INTERVAL IS 0.5m.
4. ALL DIMENSIONS SHOWN ARE IN METERS, UNLESS NOTED OTHERWISE.
5. FOR TYPICAL CROSS-SECTION DETAILS REFER TO THE PRIMARY ROAD SECTION ON DRAWING No. H350004-221-273-0001-0001

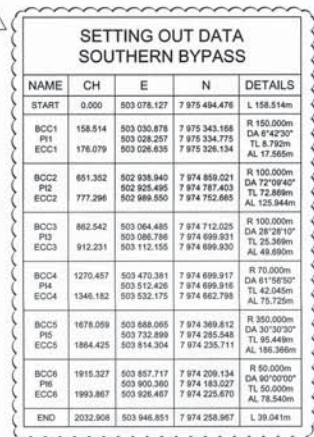
----- LAYDOWN AREA BOUNDARY

CULVERT SCHEDULE LEGEND:

D	CULVERT DIAMETER
E	EMBEDMENT DEPTH
C	CULVERT SPACING AND BEDDING CLEARANCE C = 500 WHILE D > 900mm C = 300 WHILE D < 900mm
W	CULVERT BACKFILL TOP WIDTH W = $(\pi D) \div (\pi - 1)^2$ n = no. of pipe/culvert
TYPE	CULVERT MATERIAL
U/S INV.	CULVERT UPSTREAM INVERT ELEVATION
D/S INV.	CULVERT DOWNSTREAM INVERT ELEVATION
L	RIPRAP APRON LENGTH L = 4-d (APPROX)
S	CULVERT SLOPE
LENGTH	CULVERT LENGTH
CSP	CORRUGATED STEEL PIPE

BVC	BEGINNING VERTICAL CURVE
EVC	END VERTICAL CURVE
BCC	BEGINNING CIRCULAR CURVE
ECC	END CIRCULAR CURVE
R	RADIUS (CURVE)
DA	DEFLECTION ANGLE (CURVE)
TL	TANGENT LENGTH (CURVE)
AL	ARC LENGTH (CURVE)

DATUM 0.000



PERMIT TO PRACTICE
WATON LTD
Signature _____
Date _____
PERMIT NUMBER: P 512
The Association of Professional Engineers,
Geoscientists and Geotechnicians of MATS/NZ

[illegible]

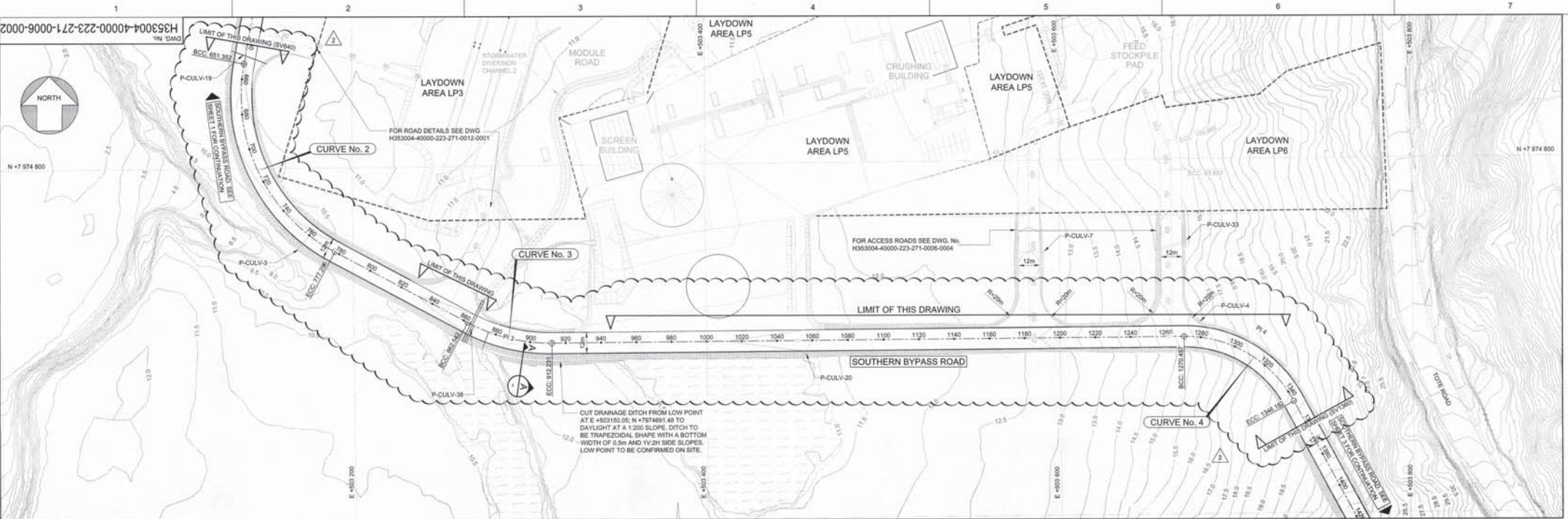
USERNAMES	STIMES
SDATES	
SFILES	

DRAWING APPROVAL STATUS:		Approved for Construction
--------------------------	--	---------------------------

1:1,000
OR AS NOTED

H353004-40000-223-271-0006-0001

2



CULVERT SCHEDULE														
(THIS SCHEDULE TO BE READ IN CONJUNCTION WITH DWG. No. H353004-40000-221-294-0001-0001-TYPICAL CULVERT DETAILS)														
CULVERT AT UPSTREAM					CULVERT AT DOWNSTREAM					NOTE: FINAL US INVERT AND DS INVERT LEVELS ARE TO BE CONFIRMED ON SITE				
CULVERT ID	FISH BEARING	NUMBER OF PIPES	D (mm)	LENGTH (m)	E (mm)	W (mm)	TYPE	NORTHING	EASTING	US INV. ELEV (m)	RIP RAP REQ'D	NORTHING	EASTING	DS INV. ELEV (m)
P-CULV-3	N	1	600	19.455	0	600	CSP	7974769.089	502960.826	10.422	N	7974753.896	502966.674	9.879
P-CULV-4	N	1	600	18.245	0	600	CSP	7974709.320	503479.430	10.356	Y	7974691.194	503477.364	10.807
P-CULV-19	N	1	600	21.700	0	600	CSP	7974709.627	503255.458	11.284	N	7974689.981	503254.258	11.000
P-CULV-20	N	1	900	22.698	0	900	CSP	7974708.040	503264.950	11.278	Y	774691.902	503255.347	11.076
P-CULV-38	N	1	1200	23.350	0	1200	CSP	7974724.155	503073.407	9.911	Y	7974701.280	503061.860	9.890

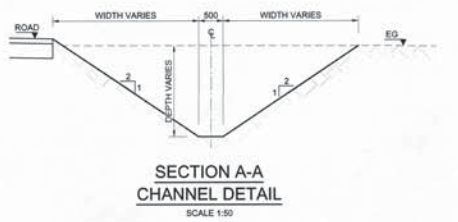
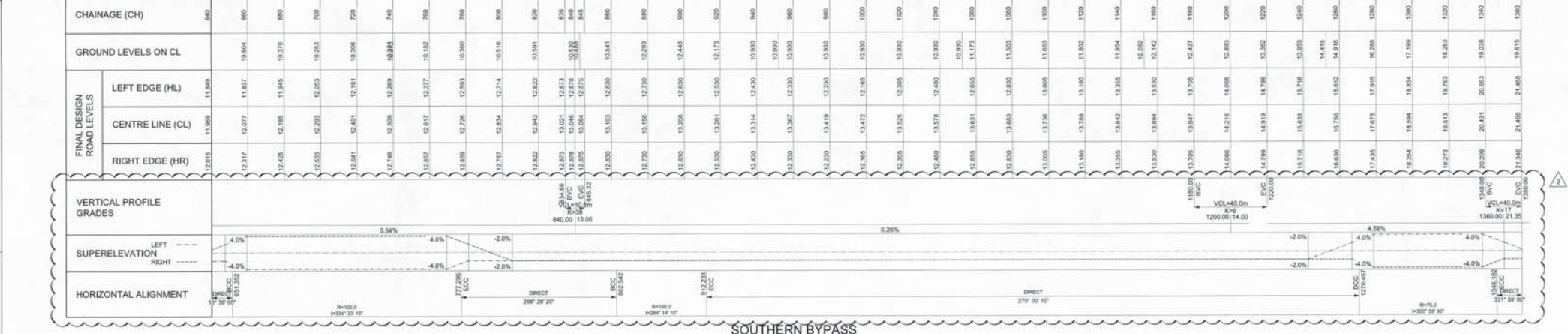
CULVERT SCHEDULE LEGEND:

D CULVERT DIAMETER
E EMBEDMENT DEPTH
C CULVERT SPACING AND BEDDING CLEARANCE
C = 500 WHILE D > 900mm
C = 300 WHILE D <= 900mm
W CULVERT BACKFILL TOP WIDTH
W = (n*W) + (n-1)*C
n = no. of pipes/culvert
TYPE CULVERT MATERIAL
US INV. CULVERT UPSTREAM INVERT ELEVATION
DS INV. CULVERT DOWNSTREAM INVERT ELEVATION
L RIPRAP APRON LENGTH
S CULVERT SLOPE
LENGTH CULVERT LENGTH
CSP CORRUGATED STEEL PIPE

ROAD DATA LEGEND:

BVC BEGINNING VERTICAL CURVE
 EVC END VERTICAL CURVE
 BCC BEGINNING CIRCULAR CURVE
 ECC END CIRCULAR CURVE
 R RADIUS (CURVE)
 DA DEFLECTION ANGLE (CURVE)
 TL TANGENT LENGTH (CURVE)
 AL ARC LENGTH (CURVE)

SCALES:
 HORIZONTAL 1:1000
 VERTICAL 1:200
 DATUM 5.000



SETTING OUT DATA SOUTHERN BYPASS

NAME	CH	E	N	DETAILS
START	0.000	503 078.127	7 975 494.476	L 156.514m
BCC1	158.514	503 030.878	7 975 343.168	R 150.000m
P11	503 028.257	7 975 334.775		DA 6°42'50"
ECC1	176.079	503 028.639	7 975 328.134	TL 6.792m
BCC2	651.362	502 938.940	7 974 850.021	R 100.000m
P12	502 925.495	7 974 787.403		DA 72°09'40"
ECC2	777.236	502 989.050	7 974 732.660	TL 72.869m
BCC3	862.542	503 064.485	7 974 712.025	R 100.000m
P13	503 058.786	7 974 699.931		DA 38°29'10"
ECC3	912.231	503 112.155	7 974 686.930	TL 25.369m
BCC4	1270.457	503 470.381	7 974 699.917	R 75.000m
P14	503 512.426	7 974 699.918		DA 61°58'50"
ECC4	1346.182	503 535.175	7 974 662.796	TL 42.045m
BCC5	1678.069	503 688.065	7 974 369.812	R 250.000m
P15	503 732.899	7 974 285.548		DA 30°30'30"
ECC5	1864.425	503 814.304	7 974 235.711	TL 186.369m
BCC6	1915.327	503 857.717	7 974 209.134	R 50.000m
P16	503 860.380	7 974 133.027		DA 90°00'00"
ECC6	1993.867	503 926.467	7 974 225.670	TL 50.000m
END	2032.908	503 946.851	7 974 258.367	L 39.041m

DRAWING No.	DRAWING TITLE
H353004-40000-223-271-0012-0001	STOCKPILE 2 - SOUTHERN ACCESS ROADS
H353004-40000-221-273-0001-0001	TYPICAL CROSS-SECTION - MODULE PRIMARY AND SECONDARY ROADS
H353004-40000-223-294-0009-0001	TYPICAL CROSS-SECTION - SHEET 4 OF 4
H353004-40000-223-294-0005-0001	TYPICAL CROSS-SECTION - SHEET 3 OF 4
H353004-40000-223-294-0004-0001	TYPICAL CROSS-SECTION - SHEET 2 OF 4
H353004-40000-223-294-0003-0002	TYPICAL CROSS-SECTION - SHEET 1 OF 4
H353004-40000-223-294-0003-0001	TYPICAL CROSS-SECTION - SHEET 1 OF 4
H353004-40000-223-294-0002-0001	TYPICAL CROSS-SECTION - SINGLE BARREL PIPE CULVERT
H353004-40000-223-294-0001-0001	TYPICAL CROSS-SECTION - MULTIPLE BARREL PIPE CULVERT

REFERENCE DRAWINGS
H353004-40000-223-271-0012-0001
H353004-40000-221-273-0001-0001
H353004-40000-223-294-0009-0001
H353004-40000-223-294-0005-0001
H353004-40000-223-294-0004-0001
H353004-40000-223-294-0003-0002
H353004-40000-223-294-0003-0001
H353004-40000-223-294-0002-0001
H353004-40000-223-294-0001-0001

FOR CONSTRUCTION
2 BYPASS CHAINAGE DISTANCES AND VERTICAL PROFILE BETWEEN CH 840 & CH 1200 CHANGED
1 CULVERT (P-CULV-19) POSITION AMENDED AND EDC NOTE REMOVED
0 APPROVED FOR CONSTRUCTION
REVISIONS
BY CHKD DATE DESCRIPTION
9HB FH 12/04/2019 AREA LEAD V LAURIC
KYOM FH 20/09/2018 ENG. MANAGER R GOOSEN
KYOM FH 15/05/2018 AREA MANAGER T ATIBA
ROLE NAME SIGNATURE DATE
DRAWING APPROVAL STATUS: Approved for Construction

HATCH

DRAFTSPERSON K VAN DER MERWE NR 12/04/2019
 DESIGNER E BALOGH NR 12/04/2019
 CHECKER F HUGO 2019-04-15
 DESIGN COORD. R GOOSEN 2019-04-15
 RESP. ENGR. R HALIM 2019-04-15
 LEAD ENGR. A GROENELAR 2019-04-15

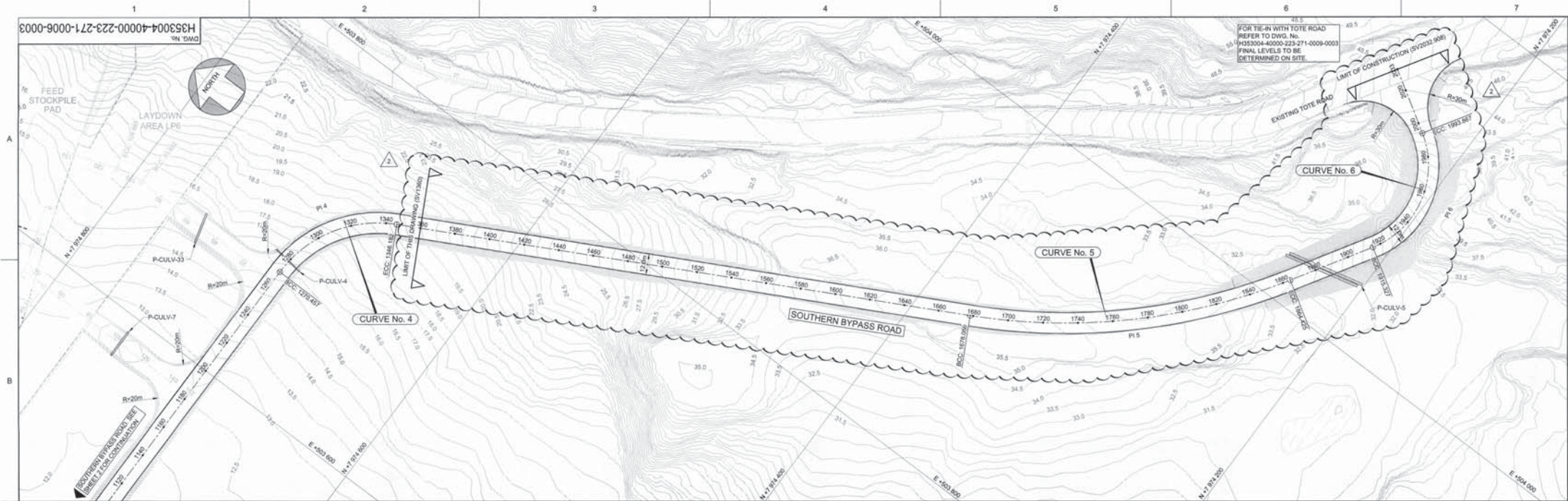
Baffinland

BAFFINLAND IRON MINES LP
MARY RIVER EXPANSION PROJECT

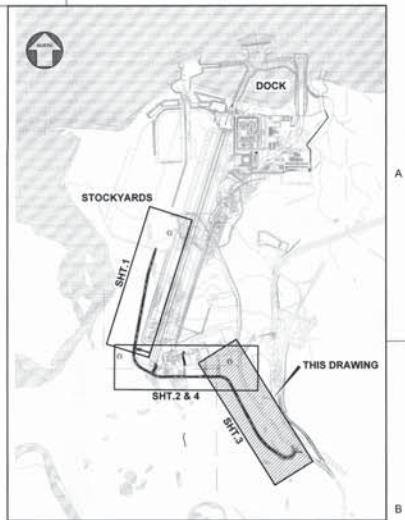
PORT SITE
SOUTHERN BYPASS ROAD
PLAN & PROFILE SHEET 2 OF 4

DWG. No. H353004-40000-223-271-0006-0002
 SCALE 1:1000
 SHEET SIZE: E

REVISIONS
1
2
3
4
5
6
7
8



PLAN
SCALE 1:1000



KEY PLAN

NOTES:

1. LIDAR SURVEY PROVIDED BY PHOTOSAT (2016)
2. CO-ORDINATE GRID IS SHOWN IN UTM (NAD83) ZONE 17 AND IS IN METERS.
3. CONTOURS ARE IN METERS. CONTOUR INTERVAL IS 0.5m.
4. ALL DIMENSIONS SHOWN ARE IN METERS, UNLESS NOTED OTHERWISE.
5. FOR TYPICAL CROSS-SECTION DETAILS REFER TO THE PRIMARY ROAD SECTION ON DRAWING No. H353004-221-273-0001-0001

LEGEND:

--- LAYDOWN AREA BOUNDARY

CULVERT SCHEDULE LEGEND:

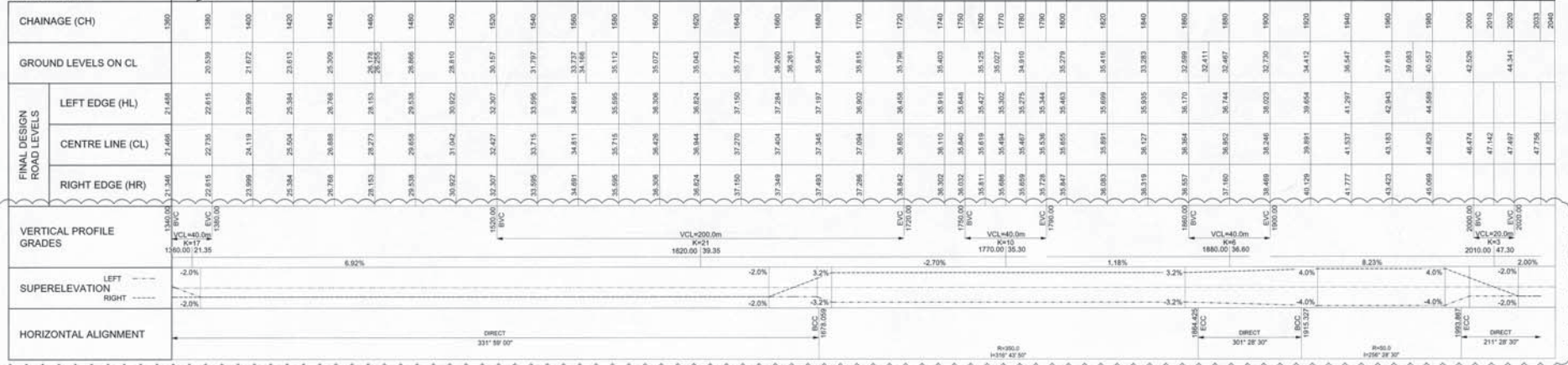
D CULVERT DIAMETER
E EMBEDMENT DEPTH
C CULVERT SPACING AND BEDDING CLEARANCE
C = 500 WHILE D > 900mm
C = 300 WHILE D < 900mm
W CULVERT BACKFILL TOP WIDTH
W = (D/2) + (n/2) * C
n = no. of pipe/culvert
TYPE CULVERT MATERIAL
U/S INV. CULVERT UPSTREAM INVERT ELEVATION
D/S INV. CULVERT DOWNSTREAM INVERT ELEVATION
L RIPRAP APRON LENGTH
L = 4d (APPROX)
S CULVERT SLOPE
LENGTH CULVERT LENGTH
CSP CORRUGATED STEEL PIPE

ROAD DATA LEGEND:

BVC BEGINNING VERTICAL CURVE
EVC END VERTICAL CURVE
BCC BEGINNING CIRCULAR CURVE
ECC END CIRCULAR CURVE
R RADIUS (CURVE)
DA DEFLECTION ANGLE (CURVE)
TL TANGENT LENGTH (CURVE)
AL ARC LENGTH (CURVE)

SCALES:
HORIZONTAL 1:1000
VERTICAL 1:200

DATUM 20.000



SOUTHERN BYPASS
FROM 1360.000 TO 2040.000

SETTING OUT DATA
SOUTHERN BYPASS

NAME	CH	E	N	DETAILS
START	0.000	503 078.127	7 075 494.476	L 158.514m
BCC1	158.514	503 030.878	7 075 343.168	R 150.000m
P1	503 028.257	7 075 334.775	DA 8°42'30"	
ECC1	176.079	503 026.635	7 075 328.134	TL 8.720m
BCC2	651.352	502 938.940	7 074 859.021	R 100.000m
P2	502 925.495	7 074 787.403	DA 12°09'40"	
ECC2	777.296	502 989.550	7 074 732.665	TL 72.866m
BCC3	862.542	503 064.485	7 074 712.025	R 100.000m
P3	503 085.786	7 074 699.931	DA 20°28'10"	
ECC3	912.231	503 112.155	7 074 659.330	TL 25.369m
BCC4	1270.457	503 470.381	7 074 899.917	R 70.000m
P4	503 512.426	7 074 699.916	DA 61°58'30"	
ECC4	1346.182	503 532.175	7 074 662.798	TL 42.045m
BCC5	1678.059	503 688.065	7 074 369.812	R 350.000m
P5	503 732.859	7 074 285.548	DA 30°30'30"	
ECC5	1964.425	503 814.304	7 074 235.711	TL 95.448m
BCC6	1915.327	503 857.717	7 074 259.134	R 50.000m
P6	503 900.360	7 074 183.027	DA 90°30'00"	
ECC6	1993.867	503 926.467	7 074 225.979	TL 78.540m
END	2032.908	503 948.851	7 074 258.967	L 39.041m

PERMIT TO PRACTICE
HATCH LTD.
Signature: _____
Date: _____
PERMIT NUMBER: P-112
The Association of Professional Engineers,
Geologists and Geophysicists of MONTANA

H353004-40000-221-273-0002-0001	TYPICAL CROSS-SECTION - HAUL, PRIMARY AND SECONDARY ROADS
H353004-40000-220-294-0006-0001	TYPICAL CROSS-SECTION - SHEET 4 OF 4
H353004-40000-220-294-0005-0001	TYPICAL CROSS-SECTION - SHEET 3 OF 4
H353004-40000-220-294-0004-0001	TYPICAL CROSS-SECTION - SHEET 2 OF 4
H353004-40000-220-294-0003-0002	TYPICAL CROSS-SECTION - SHEET 1 OF 4
H353004-40000-220-294-0003-0001	TYPICAL CROSS-SECTION - SINGLE BARREL PIPE CULVERT
H353004-40000-220-294-0002-0001	TYPICAL CROSS-SECTION - MULTIPLE BARREL PIPE CULVERT
H353004-40000-220-294-0001-0001	TYPICAL CROSS-SECTION - MULTIPLE BARREL PIPE CULVERT

DRAWING No. _____
REFERENCE DRAWINGS



FOR CONSTRUCTION

No.	DESCRIPTION	REVISIONS
2	BYPASS CHAINAGE DISTANCES CHANGED	
1	EDC STAMP REMOVED	
0	APPROVED FOR CONSTRUCTION	

BY	CHKD	DATE	ROLE	NAME	SIGNATURE	DATE
PHB	FH	12/04/2019	AREA LEAD	V. LAVRIC		2019-04-15
	FH	17/06/2019	ENG. MANAGER	R. GOOSSEN		2019-04-15
	FH	15/05/2019	AREA MANAGER	T. ATIBA		2019-04-15

HATCH

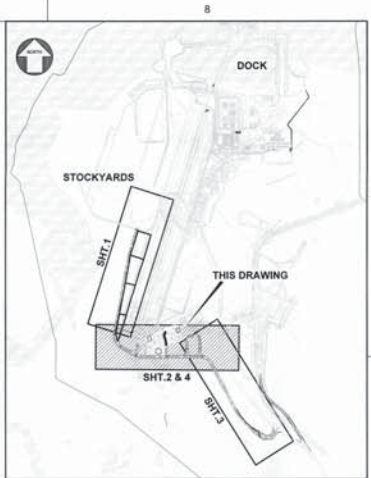
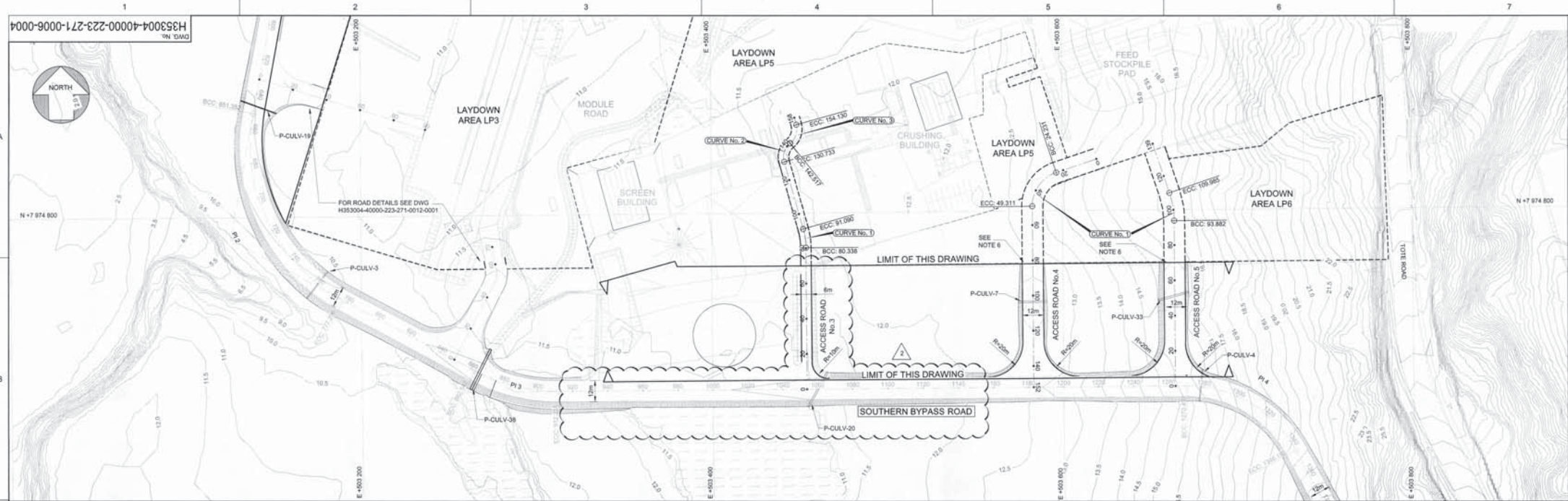
Baffinland

BAFFINLAND IRON MINES LP
MARY RIVER EXPANSION PROJECT

PORT SITE
SOUTHERN BYPASS ROAD
PLAN & PROFILE SHEET 3 OF 4

DWG. No. H353004-40000-223-271-0006-0003
SCALE 1:1,000
REV 2

SHEET SIZE: E



KEY PLAN

NOTES:

- LIDAR SURVEY PROVIDED BY PHOTOSAT (2016)
- CO-ORDINATE GRID IS SHOWN IN UTM (NAD83) ZONE 17 AND IS IN METERS.
- CONTOURS ARE IN METERS. CONTOUR INTERVAL IS 0.5m.
- ALL DIMENSIONS SHOWN ARE IN METERS, UNLESS NOTED OTHERWISE.
- FOR TYPICAL CROSS-SECTION DETAILS REFER TO THE PRIMARY ROAD SECTION ON DRAWING No. H353004-221-273-0001-0001
- ROADS TO TIE INTO LAYDOWN AREAS. FINAL LEVELS TO BE CONFIRMED ON SITE. TRAVEL WAY TO BE DEMARCATED ON LAYDOWN AREAS AS PER SITE ENGINEER'S INSTRUCTIONS.

LEGEND:

----- LAYDOWN AREA BOUNDARY

CULVERT SCHEDULE														
(THIS SCHEDULE TO BE READ IN CONJUNCTION WITH DRG. No. H353004-00000-221-284-0001-0001-TYPICAL CULVERT DETAILS)														
CULVERT ID	FISH BEARING	NUMBER OF PIPES	D (mm)	LENGTH (m)	E (mm)	W (mm)	TYPE	CULVERT AT UPSTREAM			CULVERT AT DOWNSTREAM			SKEW (DEGREE)
								NORTHING	EASTING	US INV. ELEV (m)	R/R RAP REQ'D	NORTHING	EASTING	
P-CULV-7	N	1	900	16.42	0	900	CSP	7974748.500	503390.900	12.806	Y	7974748.496	503374.484	12.326
P-CULV-33	N	1	900	17.75	0	900	CSP	7974753.350	503472.000	15.450	Y	7974748.752	503454.865	15.007

CULVERT SCHEDULE LEGEND:

D CULVERT DIAMETER
E EMBEDEDMENT DEPTH
C CULVERT SPACING AND BEDDING CLEARANCE
C = 500 WHILE D > 900mm
C = 300 WHILE D < 900mm
W CULVERT BACKFILL TOP WIDTH
W = (D/2) + (D/2) * C
R RADIUS OF CURVE
R = NO. OF PIPE/CULVERT
US INV. CULVERT UPSTREAM INVERT ELEVATION
DS INV. CULVERT DOWNSTREAM INVERT ELEVATION
L CULVERT LENGTH
S CULVERT SLOPE
CSP CORRUGATED STEEL PIPE

SETTING OUT DATA					
ACCESS ROAD No.4					
NAME	CH	E	N	DETAILS	
START	0.000	503 419.701	7 974 629.209	L 24.231m	
BCC1	24.231	503 386.675	7 974 821.662	R 20.000m	
P1	503 382.905	7 974 817.148	DA 71°51'00"	TL 14.481m	
ECC1	49.311	503 382.905	7 974 802.657	AL 25.080m	
END	152.048	503 362.901	7 974 699.920	L 102.737m	

SETTING OUT DATA					
ACCESS ROAD No.5					
NAME	CH	E	N	DETAILS	
START	0.000	503 463.843	7 974 699.918	L 93.852m	
BCC1	93.882	503 463.843	7 974 793.800	R 50.000m	
P1	503 463.843	7 974 801.821	DA 19°27'10"	TL 8.122m	
ECC1	108.965	503 461.273	7 974 809.626	AL 16.103m	
END	139.465	503 451.942	7 974 837.590	L 29.485m	

SETTING OUT DATA					
ACCESS ROAD No.3 01					
NAME	CH	E	N	DETAILS	
START	0.000	503 253.686	7 974 699.925	L 80.338m	
BCC1	80.338	503 253.686	7 974 780.263	R 40.000m	
P1	503 253.686	7 974 785.672	DA 19°24'00"	TL 5.408m	
ECC1	91.080	503 253.253	7 974 790.888	AL 10.751m	
BCC2	130.733	503 241.727	7 974 829.106	R 10.000m	
P2	503 239.973	7 974 835.475	DA 68°32'50"	TL 6.806m	
ECC2	142.409	503 245.142	7 974 839.587	AL 11.876m	
BCC3	142.517	503 245.227	7 974 839.655	R 10.000m	
P3	503 250.362	7 974 843.739	DA 68°32'30"	TL 6.561m	
ECC3	154.130	503 248.659	7 974 850.076	AL 11.813m	
END	158.339	503 247.567	7 974 854.140	L 4.208m	

ROAD DATA LEGEND:

BVC BEGINNING VERTICAL CURVE
EVC END VERTICAL CURVE
BCC BEGINNING CIRCULAR CURVE
ECC END CIRCULAR CURVE
R RADIUS (CURVE)
DA DEFLECTION ANGLE (CURVE)
TL TANGENT LENGTH (CURVE)
AL ARC LENGTH (CURVE)

SCALES:
HORIZONTAL 1:1000
VERTICAL 1:200

DATUM 5.000

CHAINAGE (CH)		60	70	80	90	100	110	120	130	140	150	160
GROUND LEVELS ON CL		13.153	12.826	12.539	12.503	12.477	12.423	12.447	12.515	12.571	12.581	12.513
FINAL DESIGN ROAD LEVELS	LEFT EDGE (HL)	14.718	14.546	14.365	14.337	14.312	14.272	14.247	14.216	14.180	14.140	13.896
	CENTRE LINE (CL)	14.546	14.373	14.191	14.163	14.137	14.097	14.072	14.041	14.005	13.965	13.806
	RIGHT EDGE (HR)	14.718	14.546	14.365	14.337	14.312	14.272	14.247	14.216	14.180	14.140	13.896
VERTICAL PROFILE GRADES		10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
SUPERELEVATION		LEFT ---	3.91%	3.91%	3.91%	3.91%	3.91%	3.91%	3.91%	3.91%	3.91%	3.91%
		RIGHT ---	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%

SCALES:
HORIZONTAL 1:1000
VERTICAL 1:200

DATUM 5.000

CHAINAGE (CH)		0	6	20	40	60	80
GROUND LEVELS ON CL		15.535	15.596	15.596	15.501	15.501	15.501
FINAL DESIGN ROAD LEVELS	LEFT EDGE (HL)	16.930	17.030	17.030	16.980	16.980	16.930
	CENTRE LINE (CL)	16.930	17.030	17.030	16.980	16.980	16.930
	RIGHT EDGE (HR)	16.930	17.030	17.030	16.980	16.980	16.930
VERTICAL PROFILE GRADES		5.8%	0.64%	0.64%	0.64%	0.64%	0.64%
SUPERELEVATION		LEFT ---	5.8%	5.8%	5.8%	5.8%	5.8%
		RIGHT ---	0.64%	0.64%	0.64%	0.64%	0.64%

ACCESS ROAD NO.4
FROM 60.000 TO 152.048

ACCESS ROAD NO.5
FROM 0.000 TO 80.000

FOR CONSTRUCTION



REG. PROFESSIONAL

2 FINES PAD EXTENDED TO SOUTHERN BYPASS ROAD. ACCESS ROADS No. 1 & 2 REMOVED. ROAD No. 3 REVISED
1 EDC STAMP REMOVED
0 APPROVED FOR CONSTRUCTION

REVISIONS

DESIGNER: K VAN DER MERWE
CHECKER: F HUGO
DESIGN COORD.: R GOOSSEN
RES. ENG.: A GROSBELAAR
LEAD DESIG. ENG.: V LAVRIC
ENG. MANAGER: R GOOSSEN
AREA MANAGER: T ATIBA

HATCH

DRAFTSPERSON: K VAN DER MERWE
DESIGNER: F HUGO
CHECKER: R GOOSSEN
DESIGN COORD.: A GROSBELAAR
RES. ENG.: V LAVRIC
LEAD DESIG. ENG.: R GOOSSEN
ENG. MANAGER: T ATIBA

DRAWING APPROVAL STATUS: Approved for Construction

Baffinland

BAFFINLAND IRON MINES LP
MARY RIVER EXPANSION PROJECT

PORT SITE
SOUTHERN BYPASS ROAD
PLAN & PROFILE SHEET 4 OF 4

DWG. No. H353004-40000-223-271-0006-0004

DRAWING No.	REFERENCE DRAWINGS
H353004-40000-221-272-0015-0001	FINES STOCKPILE LAYOUT
H353004-40000-223-271-0012-0001	STOCKPILE 2 - SOUTHERN ACCESS ROADS - PLAN & PROFILES
H353004-10000-221-273-0003-0001	TYPICAL CROSS-SECTION - HAUL, PRIMARY AND SECONDARY ROADS
H353004-00000-220-284-0006-0001	TYPICAL CROSS-SECTION - SHEET 4 OF 4
H353004-00000-220-284-0005-0001	TYPICAL CROSS-SECTION - SHEET 3 OF 4
H353004-00000-220-284-0004-0001	TYPICAL CROSS-SECTION - SHEET 2 OF 4
H353004-00000-220-284-0003-0002	TYPICAL CROSS-SECTION - SHEET 1 OF 4
H353004-00000-220-284-0003-0001	TYPICAL CROSS-SECTION - SINGLE BARREL PIPE CULVERT
H353004-00000-220-284-0002-0001	TYPICAL CROSS-SECTION - MULTIPLE BARREL PIPE CULVERT
H353004-00000-220-284-0001-0001	DRAWING TITLE