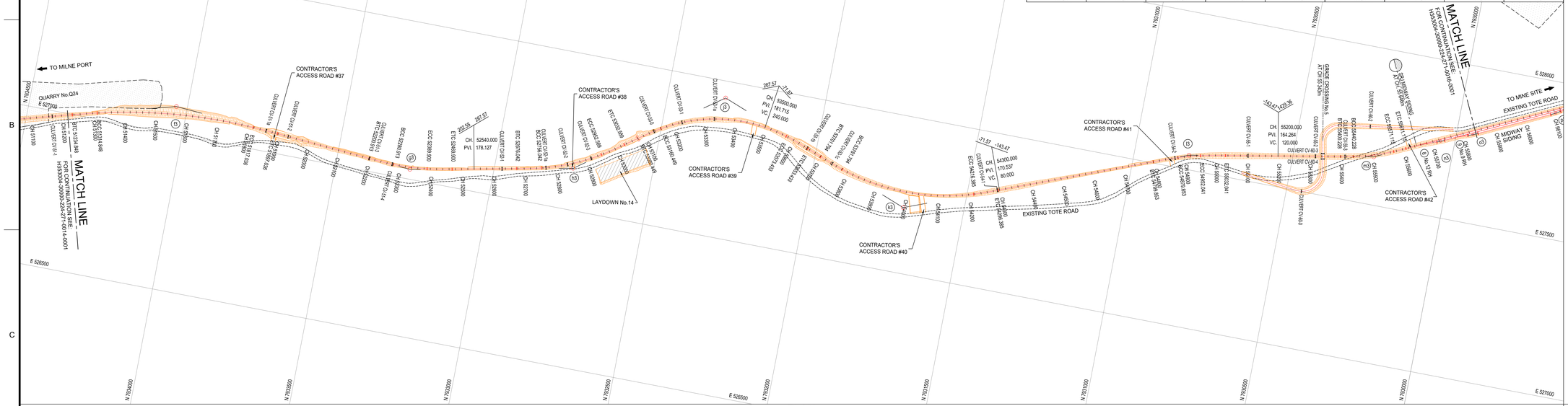
DWG. No. H353004-30000-224-271-0015-0001

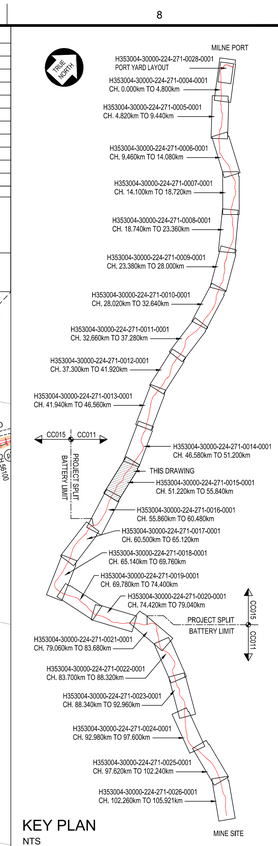
FORMATION SETTING OUT CO-ORDINATE LIST UTM (NAD83) ZONE 17

	Y	X		Y	X		Y	X		Y	X		Y	X
BTC CURVE f3	526998.979	7934356.983	BTC CURVE h3	527097.965	7932929.415	BTC CURVE k3	527319.249	7931981.986	GRADE CROSSING No.5	527623.332	7930406.174	BCC CURVE n2	527737.702	7930056.602
BCC CURVE f3	527019.652	7934279.702	BCC CURVE h3	527115.206	7932851.308	BCC CURVE k3	527292.218	7931906.704	BTC CURVE m3	527633.656	7930349.804	PI CURVE n3	527742.108	7930044.928
PI CURVE f3	527087.818	7934035.015	PI CURVE h3	527133.245	7932752.415	PI CURVE k3	527209.063	7931692.563	BCC CURVE m3	527641.264	7930310.536	ECC CURVE n3	527747.468	7930033.659
ECC CURVE f3	527088.606	7933781.738	ECC CURVE h3	527193.159	7932671.696	ECC CURVE k3	527293.843	7931479.061	PI CURVE m3	527652.742	7930245.585	SRJ No.9 RH 9		
ETC CURVE f3	527063.379	7933701.911	ETC CURVE h3	527238.434	7932605.756	ETC CURVE k3	527321.445	7931403.986	ECC CURVE m3	527681.446	7930186.202	PI No.9 RH 9		
BTC CURVE g3	527041.143	7933398.841	BTC CURVE j3	527266.328	7932566.865	BTC CURVE l3	527504.147	7930934.838	ETC CURVE m3	527698.257	7930149.908	ES No.9 RH 9		
BCC CURVE g3	527036.811	7933318.978	BCC CURVE j3	527311.192	7932500.656	BCC CURVE l3	527531.975	7930859.667	SRJ No.12 RH 8	527713.345	7930118.192	ETO No.9 RH 9		
PI CURVE g3	527031.256	7933284.092	PI CURVE j3	527446.358	7932315.861	PI CURVE l3	527546.370	7930826.417	PI No.12 RH 8	527718.732	7930106.872	BCC CURVE o3		
ECC CURVE g3	527043.530	7933210.308	ECC CURVE j3	527362.908	7932102.658	RCC CURVE l3	527551.611	7930790.399	ES No.12 RH 8	527727.810	7930087.785	PI CURVE o3		
ETC CURVE g3	527057.669	7933131.580	ETC CURVE j3	527336.455	7932027.182	ETC CURVE l3	527567.330	7930711.968	ETO No.12 RH 8	527726.218	7930087.028	ECC CURVE o3		

CURVE f3	CURVE g3	CURVE h3	CURVE j	CURVE k3	CURVE l3	CURVE m3	CURVE n3	CURVE o3
RAD. = 1700.000m	RAD. = 700.000m	RAD. = 650.000m	RAD. = 500.000m	RAD. = 700.000m	RAD. = 800.000m	RAD. = 650.000m	RAD. = 300.000m	RAD. = 300.000m
SPIRAL = 80m	SPIRAL = 80m	SPIRAL = 80m	SPIRAL = 80m	SPIRAL = 80m	SPIRAL = 80m	SPIRAL = 40m	SPIRAL = 0m	SPIRAL = 0m
SHIFT = 0.157m	SHIFT = 0.381m	SHIFT = 0.410m	SHIFT = 0.533m	SHIFT = 0.381m	SHIFT = 0.333m	SHIFT = 0.103m	SHIFT = 0m	SHIFT = 0m
D.A. = 19.6217°	D.A. = 15.4688°	D.A. = 24.3769°	D.A. = 56.4918°	D.A. = 42.1199°	D.A. = 10.8996°	D.A. = 15.0632°	D.A. = 4.7636°	D.A. = 6.3597°
T.L. = 333.996m	T.L. = 135.119m	T.L. = 180.481m	T.L. = 308.891m	T.L. = 309.688m	T.L. = 116.352m	T.L. = 105.962m	T.L. = 12.479m	T.L. = 16.667m
ARC. = 502.188+160m	ARC. = 108.987+160m	ARC. = 196.547+160m	ARC. = 412.984+160m	ARC. = 434.592+160m	ARC. = 72.187+160m	ARC. = 130.887+80m	ARC. = 24.942m	ARC. = 33.299m
Dc = 1.027°	Dc = 2.495°	Dc = 2.687°	Dc = 3.493°	Dc = 2.495°	Dc = 2.183°	Dc = 2.687°	Dc = 19.098°	Dc = 19.098°
Ea = 0.500°	Ea = 1.500°	Ea = 1.500°	Ea = 2.000°	Ea = 1.500°	Ea = 1.500°	Ea = 1.500°	Ea = 0.000°	Ea = 0.000°
Eu,f = 0.651°	Eu,f = 1.294°	Eu,f = 1.509°	Eu,f = 1.912°	Eu,f = 1.294°	Eu,f = 0.945°	Eu,f = 1.509°	Eu,f = 0.920°	Eu,f = 0.920°
Vf = 40mph	Vf = 40mph	Vf = 40mph	Vf = 40mph	Vf = 40mph	Vf = 40mph	Vf = 40mph	Vf = 15mph	Vf = 15mph

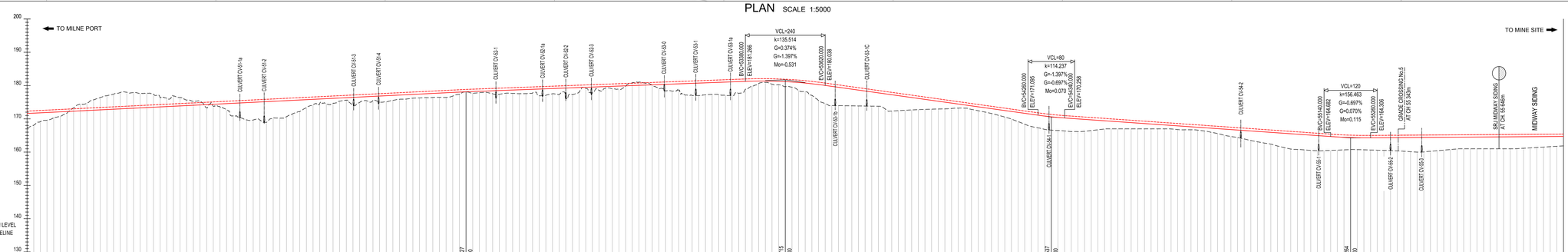


PLAN SCALE 1:5000



KEY PLAN

NTS



CUT DEPTH:

FILL HEIGHT:

RAIL LEVEL:

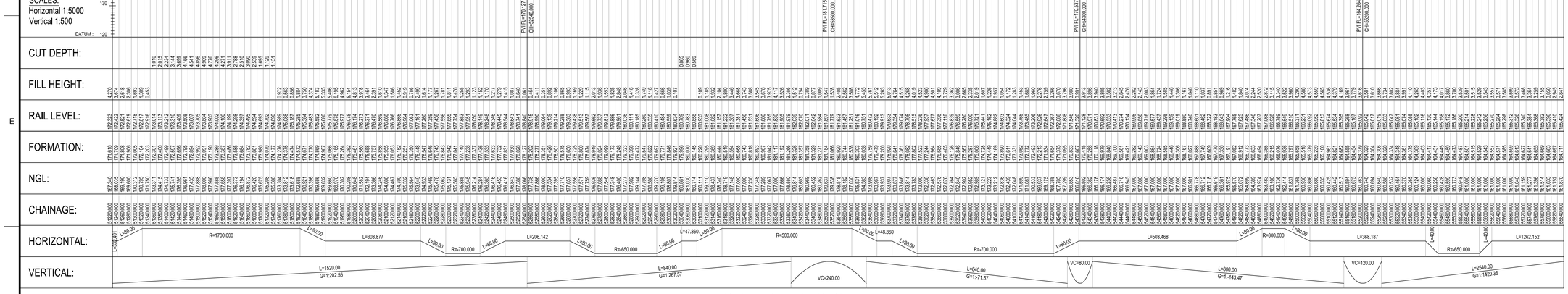
FORMATION:

NGL:

CHAINAGE:

HORIZONTAL:

VERTICAL:



LONGITUDINAL SECTION

LEGEND :

= APPROVED WATER SOURCES

= MASSIVE ICE FORMATION

NOTE :

1. EARTHWORKS FOOTPRINT DOES NOT INDICATE EXTENT OF FORMATION WIDENING AROUND CURVES WHERE APPLICABLE (REFER TO TYPICAL DRAWINGS) .
2. START / END DEVIATION REFER TO RAIL ALIGNMENT EXTENDING BEYOND EXISTING PERMITTING AREA BOUNDARIES.
3. CO-ORDINATE SYSTEM: UTM (NAD83) ZONE 17, NORTH, METER.
4. ALL DIMENSIONS SHOWN ARE IN METERS, UNLESS OTHERWISE SPECIFIED.
5. THIS DRAWING WAS PREVIOUSLY ISSUED AS: H353004-00000-224-272-0015-0001
6. FORMATION = TOP OF SUBGRADE.
7. CURVE DATA BELOW THE LINE IS IN IMPERIAL UNITS (IU).

PERMIT TO PRACTICE
HATCH LTD.
Signature
Date 2021-09-01
PERMIT NUMBER: P 512
The Association of Professional Engineers, Geologists and Geophysicists of NWT/NU

DRAWING No.	DRAWING TITLE
H353004-30000-224-271-0016-0001	LINE PLAN AND LONGITUDINAL SECTION - CH. 55+860 TO CH. 60+480
H353004-30000-224-271-0014-0001	LINE PLAN AND LONGITUDINAL SECTION - CH. 46+580 TO CH. 51+200

REFERENCE DRAWINGS

REGISTERED PROFESSIONAL ENGINEER C.H. CHAN LICENSEE 2021.09.02 NT/NU

REG. PROFESSIONAL

APPROVED FOR CONSTRUCTION

THIS DRAWING WAS PREPARED BY HATCH LTD. (HATCH) FOR THE EXCLUSIVE USE OF BAFFINLAND IRON MINES LP (CLIENT") AND ITS USE IS SUBJECT TO THE TERMS AND CONDITIONS OF THE CONTRACT BETWEEN HATCH AND THE THE CLIENT, INCLUDING ANY LIMITATIONS ON LIABILITY CONTAINED THEREIN. THIS DRAWING AND ITS CONTENTS REMAIN THE INTELLECTUAL PROPERTY OF HATCH SUBJECT TO CLIENT'S ROYALTY-FREE, IRREVOCABLE, PERPETUAL AND NON-EXCLUSIVE LICENSE TO USE AND REPRODUCE THE DRAWING FOR PURPOSES CONNECTED WITH THE PROJECT, INCLUDING THE CONSTRUCTION, COMPLETION, MAINTENANCE, EXTENSION, REINSTATEMENT AND REPAIR OF THE PROJECT. THE DRAWING IS TO BE TREATED AS CONFIDENTIAL AND MAY NOT BE USED FOR ANY OTHER PURPOSES AND SHALL NOT BE MODIFIED WITHOUT THE WRITTEN CONSENT OF HATCH.

No.	DESCRIPTION	BY	CHK'D	DATE
1	KEY PLAN UPDATED.	AJVN		2021/01/19
0	APPROVED FOR CONSTRUCTION.	AJVN		2019/02/25

REVISIONS

HATCH

ROLE	NAME	SIGNATURE	DATE
DRAFTSPERSON	A VAN NIEKERK	NR	2017-01-24
DESIGNER	A VAN NIEKERK	NR	2017/01/07
CHECKER	C CHAN		2021/09/02
DESIGN COORD.	L NGWENYA		2021/08/23
RESP. ENG.	R HALIM		2021-09-01
LEAD DISC. ENG.	F VAN BILJON		2021/08/23
AREA LEAD	L NGWENYA		2021/08/23
ENG. MANAGER	F VAN BILJON		2021/08/23
AREA MANAGER	F PITTMAN	Fay Pittman	

DRAWING APPROVAL STATUS: Approved for Construction

Baffinland

BAFFINLAND IRON MINES LP
MARY RIVER PROJECT

RAIL SITE
PLAN AND LONGITUDINAL SECTION
CH. 51+220 TO CH. 55+840

SCALE 1:5,000 OR AS NOTED

DWG. No. H353004-30000-224-271-0015-0001

REV 1

SHEET SIZE: A0

$LASTNAME$ $TIMES
$FILENAME$
$FILES