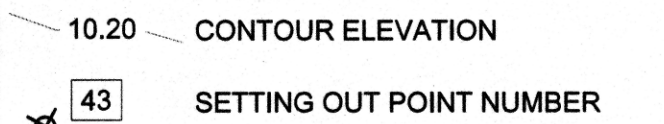


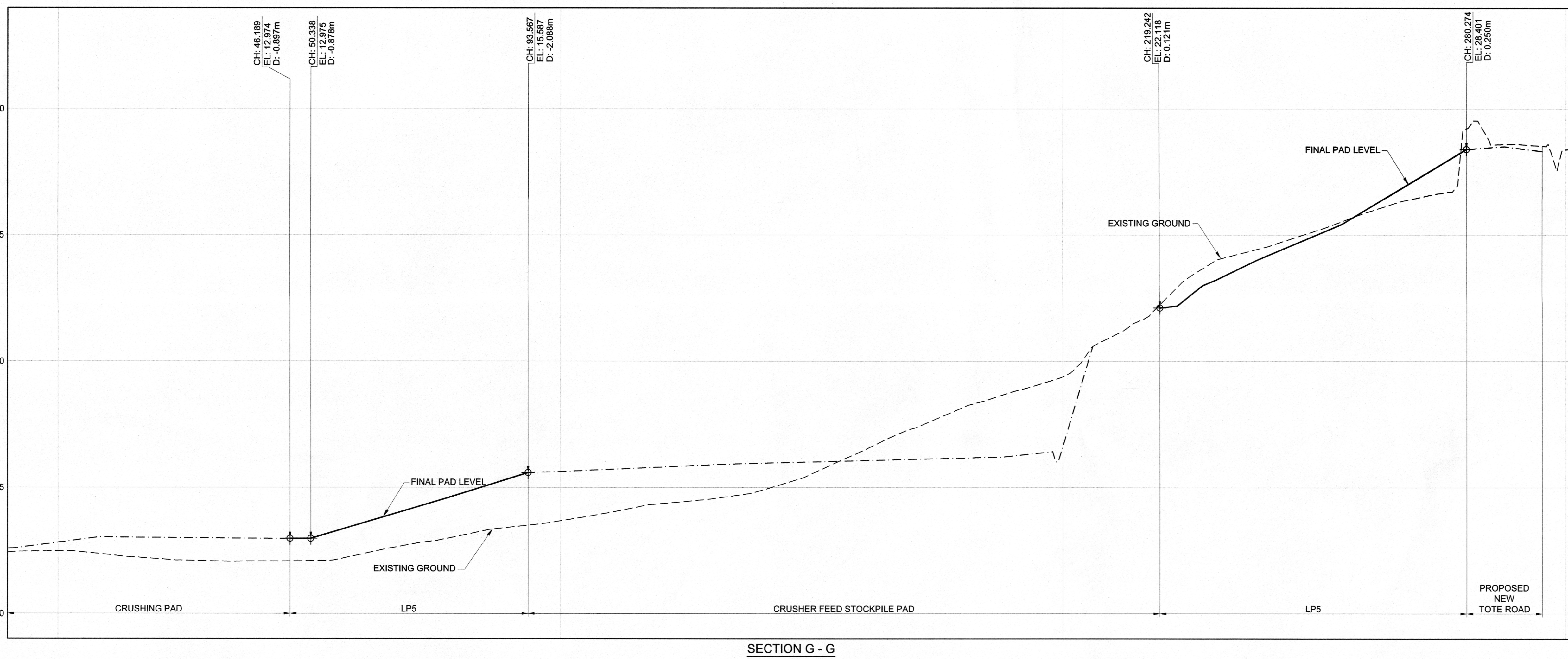
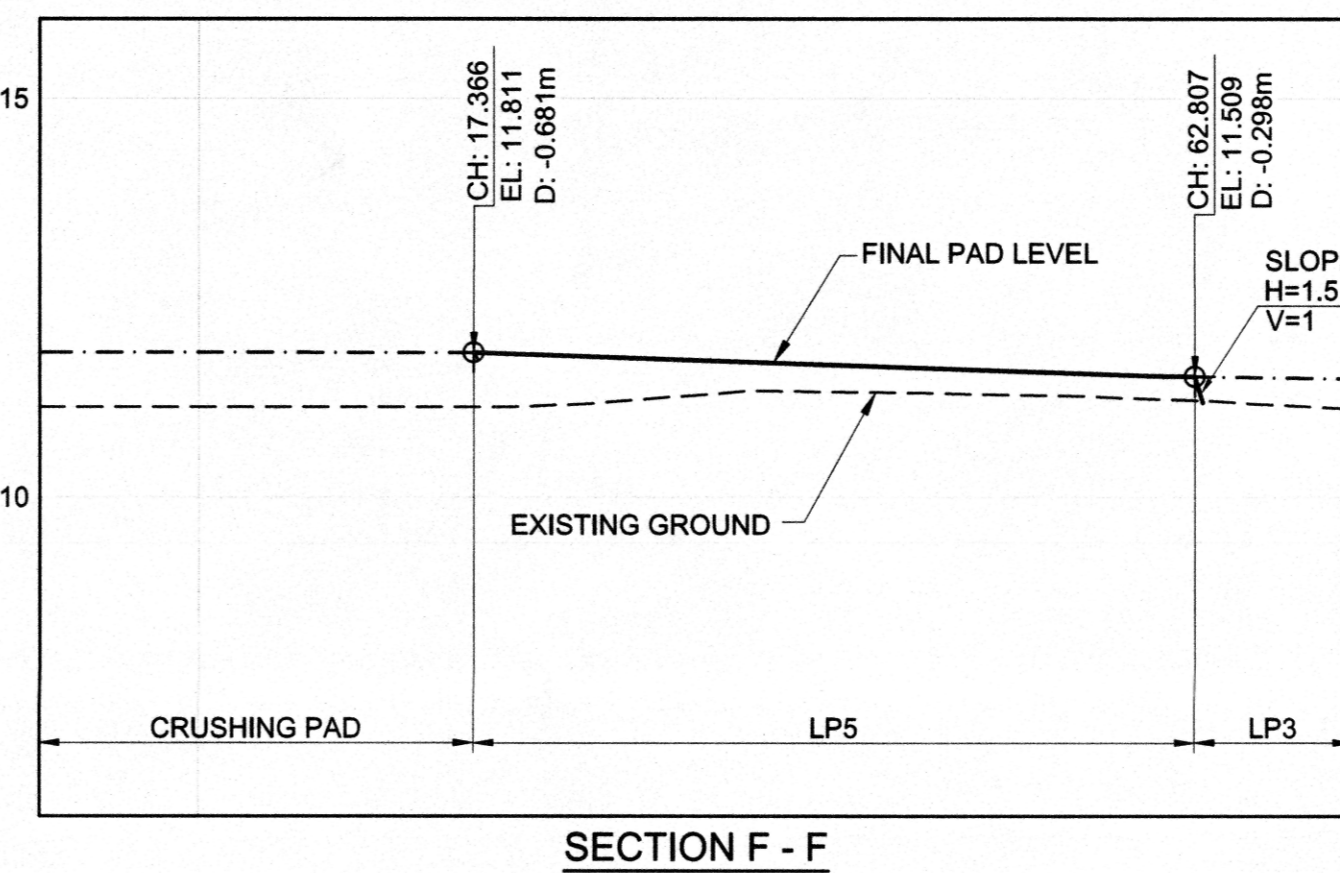
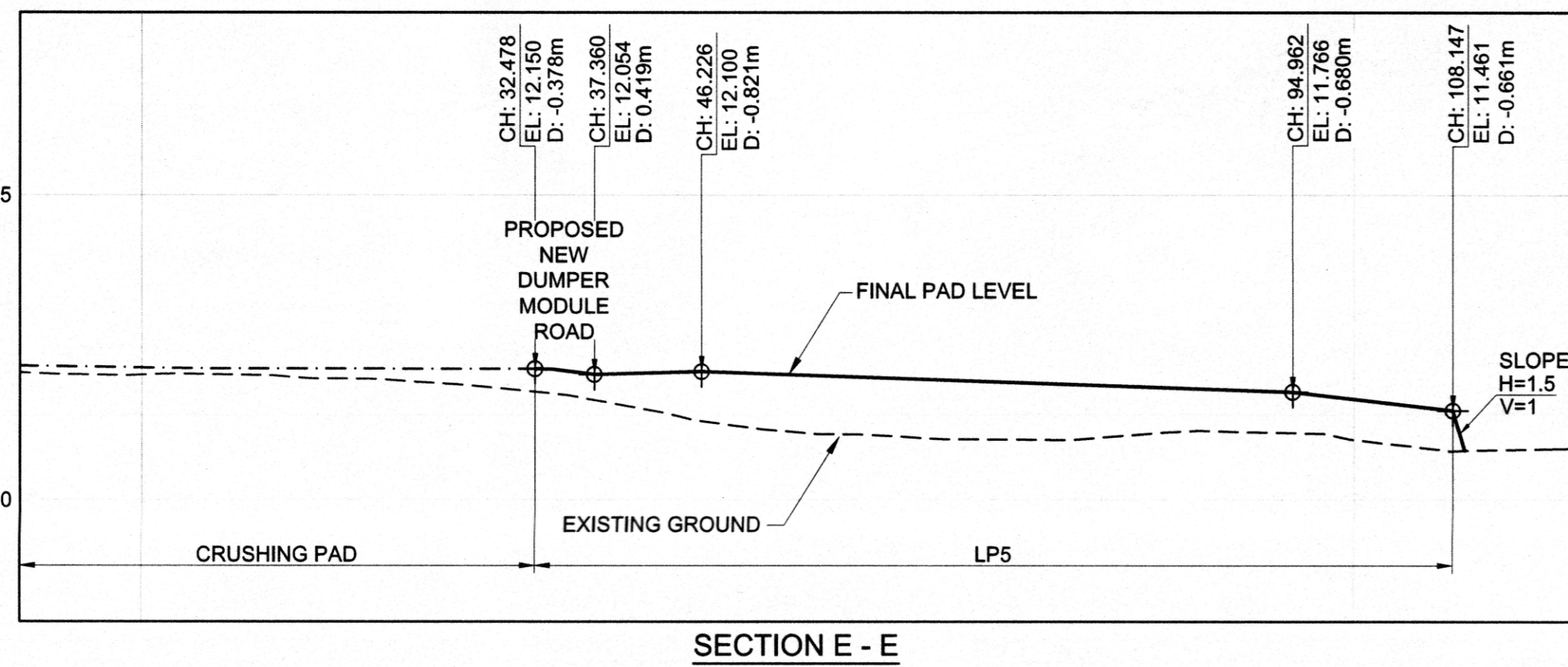
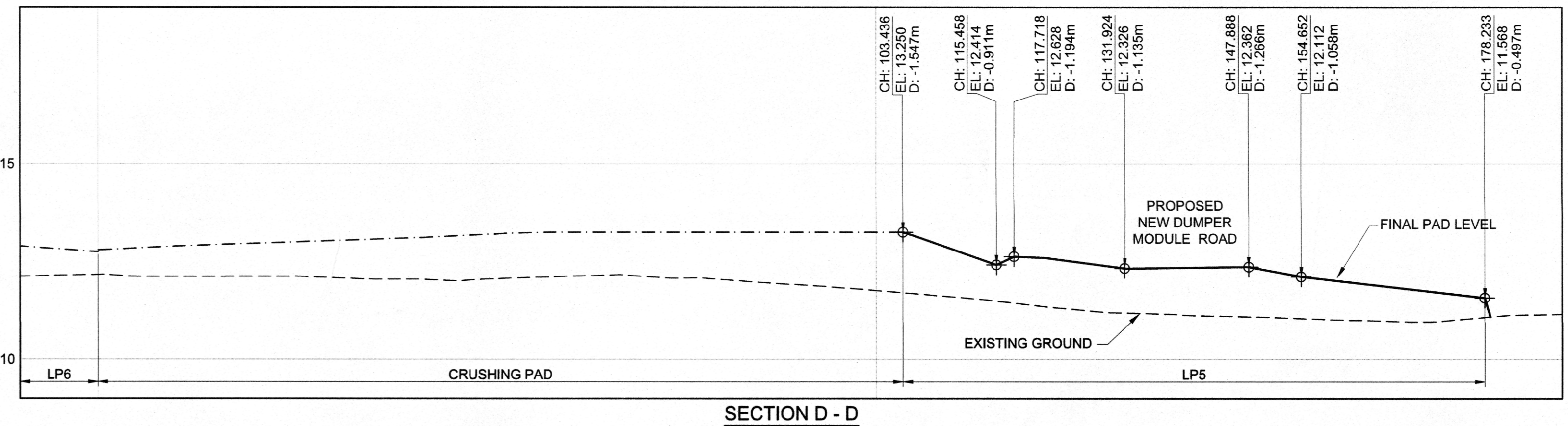
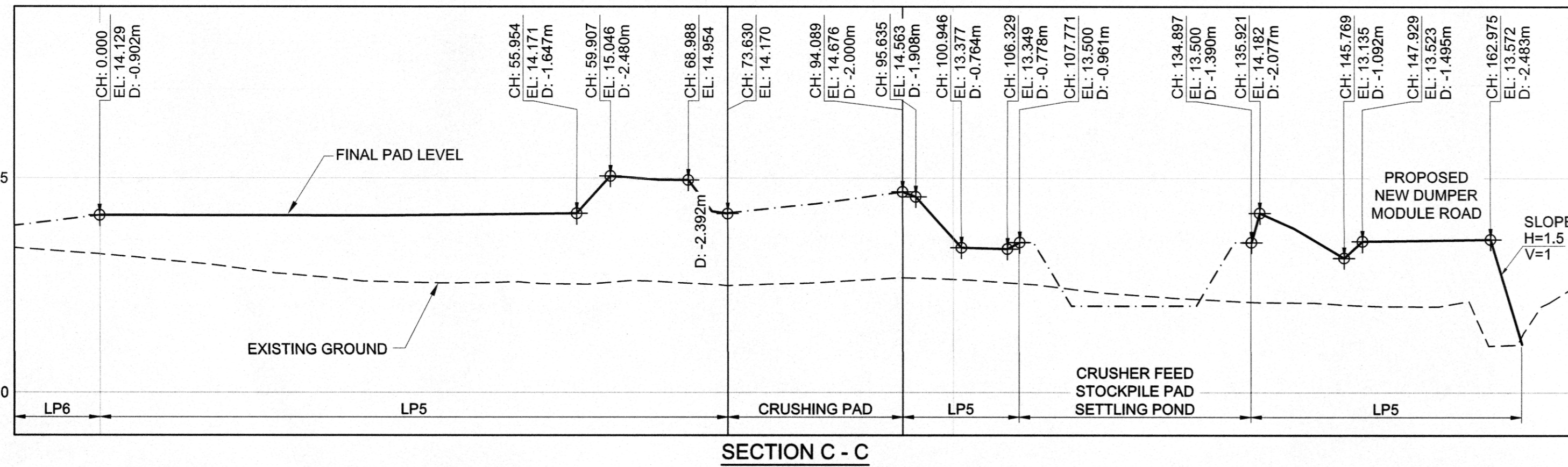
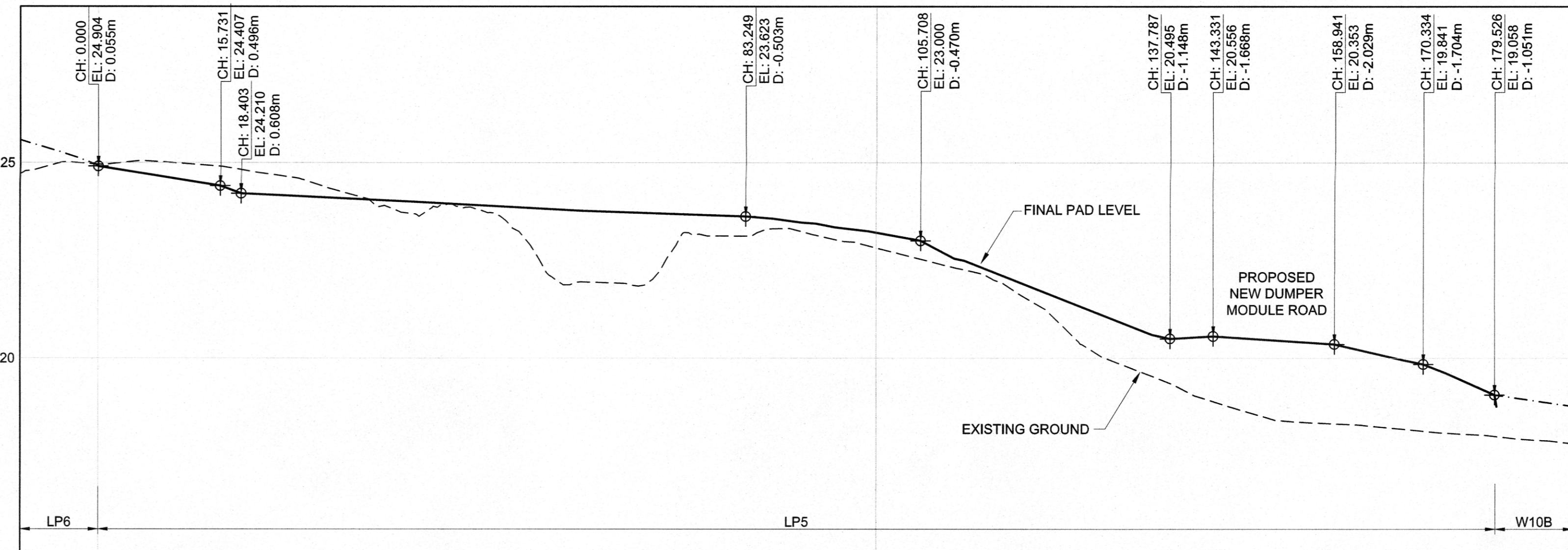
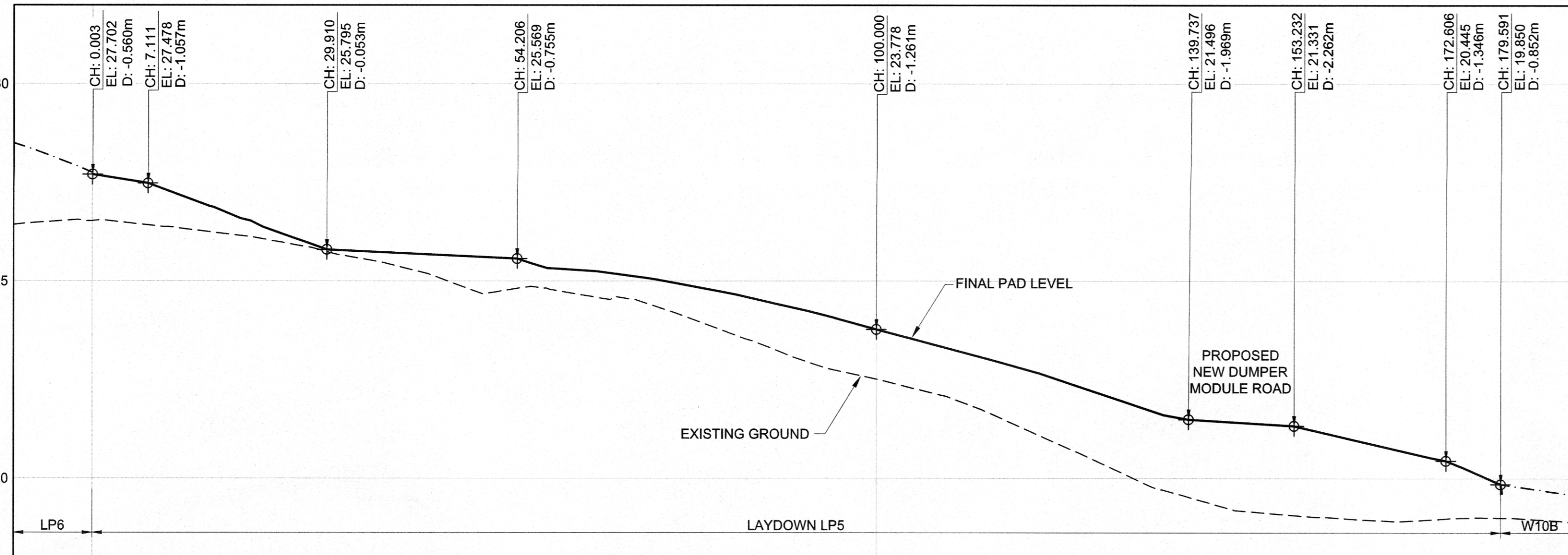
Attachment 15.6

Milne Port Laydown Areas Drawings

(9 Pages)



FILES



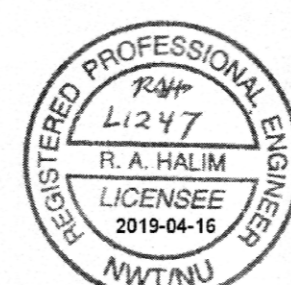
LEGEND:
CH = CHAINAGE
EL = ELEVATION
D = DEPTH

PERMIT TO PRACTICE
HATCH LTD.

Signature *[Signature]*
Date 2019-04-18

PERMIT NUMBER: P 512
The Association of Professional Engineers,
Geologists and Geophysicists of NWT/NU

FOR CONSTRUCTION



THIS DRAWING WAS PREPARED BY HATCH LTD. ("HATCH") FOR THE EXCLUSIVE USE OF BAFINLAND IRON MINES PLC ("CLIENT") AND ITS USE IS SUBJECT TO THE TERMS AND CONDITIONS OF THE CONTRACT BETWEEN HATCH AND THE CLIENT. ANY AND ALL RIGHTS OR INTERESTS CONTAINED THEREIN, THIS DRAWING AND ITS CONTENTS BELONG TO THE EXCLUSIVE 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. THIS DRAWING, AND THE INFORMATION CONTAINED HEREIN, SHALL BE TREATED AS CONFIDENTIAL FOR ALL OTHER PURPOSES AND SHALL NOT BE MODIFIED WITHOUT THE WRITTEN CONSENT OF HATCH.

HATCH


Baffinland

AFFINLAND IRON MINES LP
Y RIVER EXPANSION PROJECT

PORT SITE LAYDOWN AREA LP5 LONGITUDINAL PROFILES

SCALE 1:500 OR AS NOTED	DWG. No. H353004-40000-221-271-0010-0002	REV 2
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SHEET SIZE: E

H353004-40000-221-273-0002-0001	CRUSHING FEED STOCKPILE PAD CROSS SECTIONS
H353004-40000-221-272-0002-0001	CRUSHING FEED STOCKPILE PAD LAYOUT PLAN
H353004-40000-221-271-0010-0001	LAYDOWN AREA LP5 - LAYOUT
H353004-40000-221-271-0005-0001	LAYDOWN AREA LP3
H353004-40000-221-271-0008-0001	LAYDOWN AREA W10B
H353004-40000-221-271-0009-0001	LAYDOWN AREA LP6 - LAYOUT AND SECTIONS
DRAWING No.	DRAWING TITLE
	REFERENCE DRAWINGS

DRAWING APPROVAL					REVISIONS		ROLE		NAME		SIGNATURE		DATE				
					BY	CHK'D	DATE	DRAFTSPERSON	H HERBST	NR		12/04/2019					
								DESIGNER	H HERBST	NR		12/04/2019					
								CHECKER	F HUGO			2019-04-15					
								DESIGN COORD.	R GOOSEN			2019-04-15					
								RESP. ENG.	R HALIM			2019-04-15					
								LEAD DISC. ENG.	A GROBBELAAR			2019-04-15					
2	SECTIONS 'E-E', 'F-F' AND 'G-G' UPDATED					KR	FH	12/04/2019	AREA LEAD	V LAVRIC			2019-04-15				
1	EDC STAMP REMOVED					KvM	FH	17/08/2018	ENG. MANAGER	R GOOSEN			2019-04-15				
0	FOR CONSTRUCTION					HH	FH	16/04/2018	AREA MANAGER	T ATIBA			2019-04-15				
No.	DESCRIPTION					BY	CHK'D	DATE	ROLE	NAME	SIGNATURE		DATE				
REVIEWS														DRAWING APPROVAL STATUS:		Approved for Construction	

A

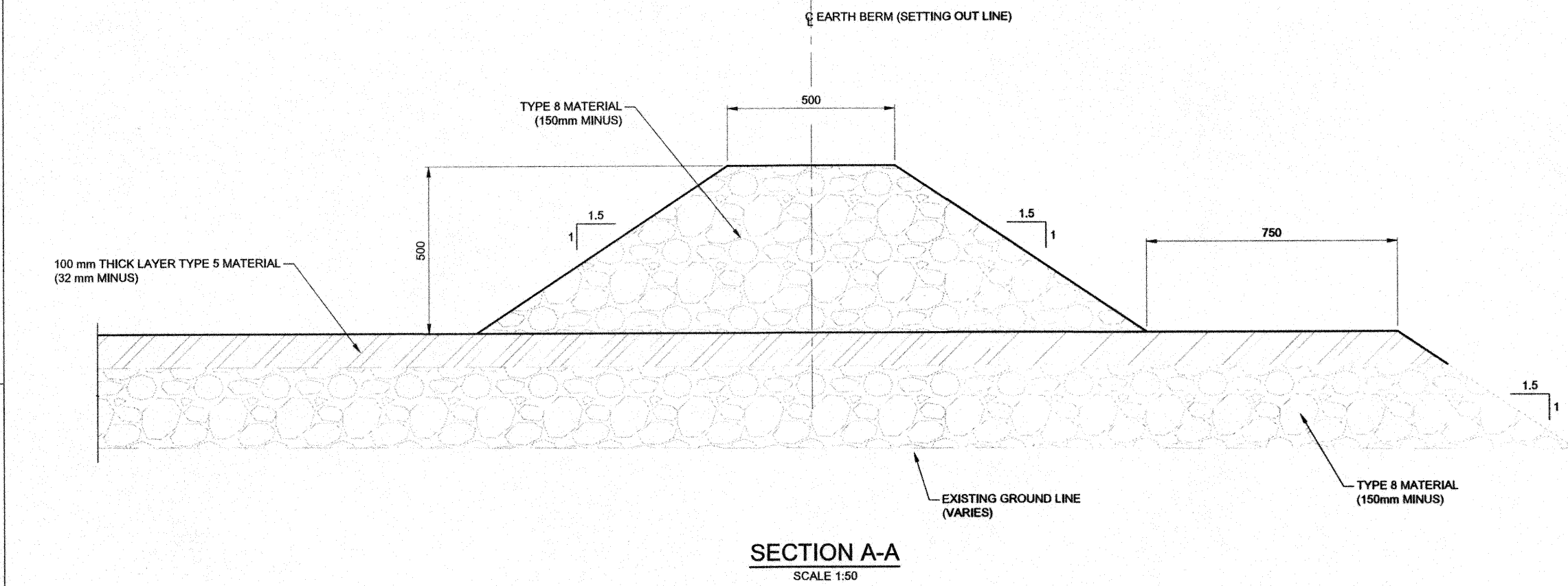
B

C

D

E

F



CULVERT SCHEDULE															
		UPSTREAM CULVERT CENTRE				DOWNSTREAM CULVERT CENTRE									
CULVERT ID	FISH BEARING	NUMBER OF PIPES	D (mm)	LENGTH (m)	E (mm)	W (mm)	TYPE	NORTHING	EASTING	U/S INV. ELEV (m)	RIP RAP REC'D	NORTHING	EASTING	D/S INV. ELEV (m)	SKEW (DEGREE)
P-CULV-36	NO	1	600	16.00	0	600	CSP	7975926	503637	11.05	NO	7975915	503625	10.89	80

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/3) + (n-1)*C
n	NUMBER OF PIPES
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

LEGEND:

→	OFF PAD FLOW DIRECTION
→	ON PAD FLOW DIRECTION

MATERIAL AND COMPACTION SPECIFICATION:

TYPE 5 (CRUSHER RUN) OR TYPE 3 (CRUSHER RUN):
THE MATERIAL MUST BE PLACED IN LIFTS NOT EXCEEDING 200mm AND SHALL BE COMPACTED BY MINIMUM 5 PASSES OF A MINIMUM 15 TON VIBRATORY ROLLER WITH VIBRATIONS IN THE RANGE OF 1200 TO 1500 vpm AND THE ROLLER SPEED OF ABOUT 2mph (3.2km/h). ALTERNATIVELY, THE COMPACTION SHOULD ACHIEVE A MINIMUM OF 100 PERCENT OF MAXIMUM DRY DENSITY AS DETERMINED BY TEST METHOD ASTM D698.

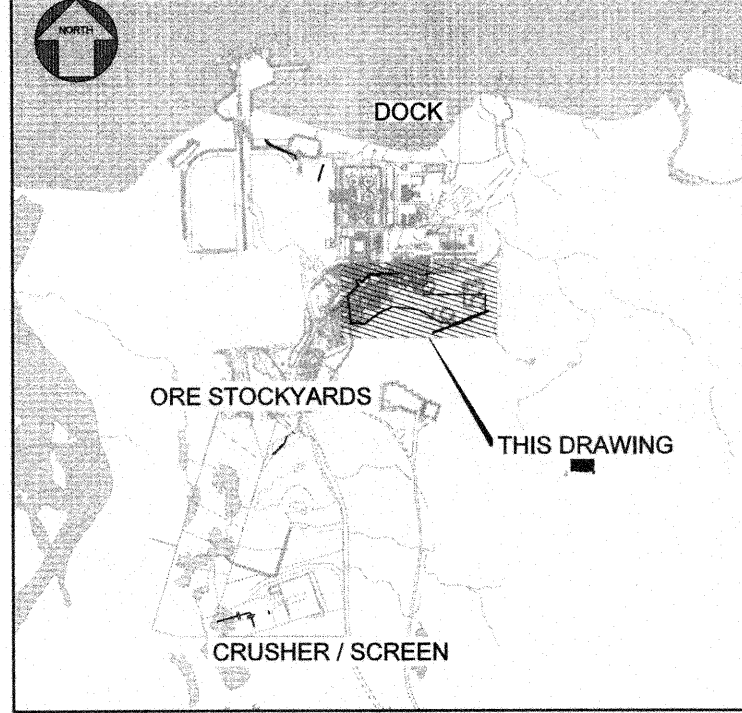
TYPE 8 (CRUSHER RUN):
THE ROCKFILL MUST BE PLACED IN LIFTS NOT EXCEEDING 500mm. THE PLACEMENT SHALL AVOID SEGREGATION AND NESTING OF COARSE PARTICLES. IT SHALL BE COMPACTED BY MINIMUM 5 PASSES OF A MINIMUM 15 TON VIBRATORY ROLLER WITH VIBRATIONS IN THE RANGE OF 1200 TO 1500 vpm AND THE ROLLER SPEED OF ABOUT 2mph (3.2km/h). EACH LIFT MUST BE "PROOF-ROLLED" PRIOR TO PLACING THE SUBSEQUENT LIFT.

TYPE 12 (RUN OF QUARRY):
THE ROCKFILL, IF USED, MUST BE PLACED IN LIFTS NOT EXCEEDING 1000mm. THE ROCKFILL SHALL BE COMPACTED BY MINIMUM 5 PASSES OF A MINIMUM 15 TON VIBRATORY ROLLER WITH VIBRATIONS IN THE RANGE OF 1200 TO 1500 vpm AND THE ROLLER SPEED OF ABOUT 2mph (3.2km/h). ALTERNATIVE COMPACTIONERS SUCH AS HEAVY LOADED RUBBER TIED HAUL TRUCKS CAN ONLY BE USED AS PER A WRITTEN APPROVAL FROM THE ENGINEER.

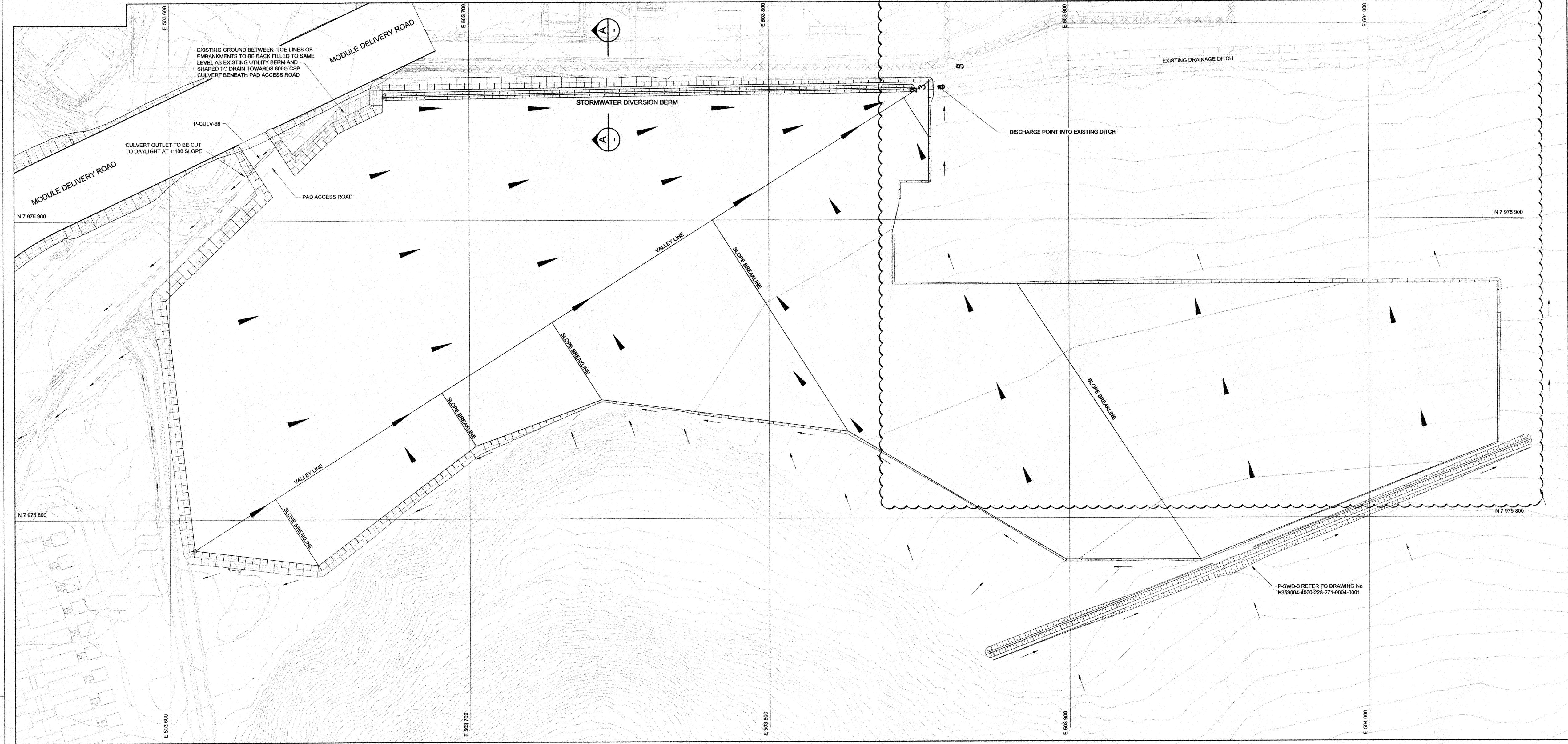
PERMIT TO PRACTICE
HATCH LTD.
Signature: [Signature]
Date: 2019-01-24
PERMIT NUMBER: P 512
The Association of Professional Engineers, Geologists and Geophysicists of NWT/NL

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 PAD LAYERWORKS CONSTRUCTION REFER TO DETAIL 1 ON DWG. No. H353004-0000-221-294-0002-0001.

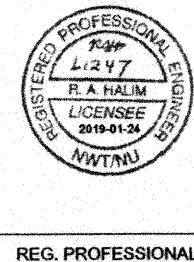


KEY PLAN



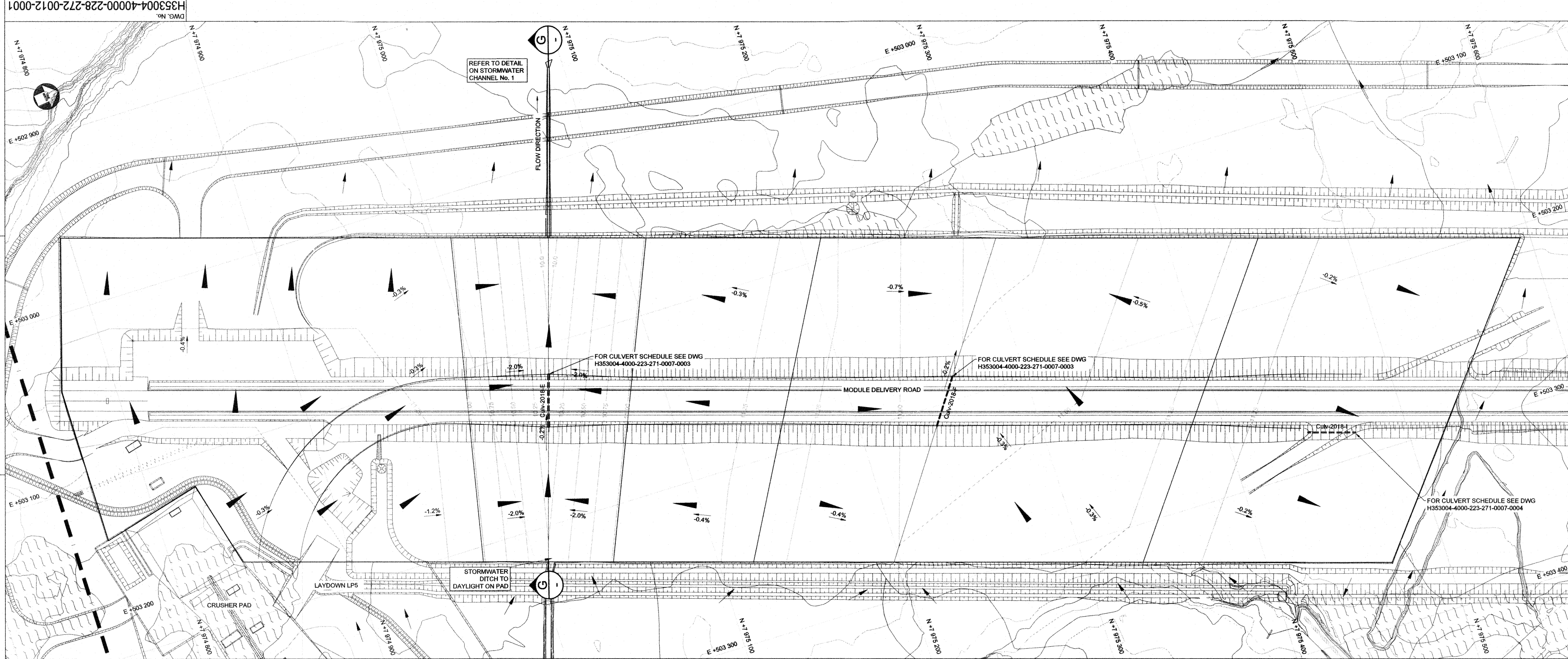
PLAN ON LAYDOWN LP2
SCALE 1:500

H353004-40000-228-272-001-11-0001	PORT SITE COMPLEX EXPANSION - DRAINAGE PLAN
H353004-40000-221-272-001-0001	PORT SITE COMPLEX EXPANSION - CROSS SECTIONS
H353004-40000-221-272-001-0001	PORT SITE COMPLEX EXPANSION - LAYOUT PLAN
H353004-40000-221-272-004-0001	LAYDOWN AREA LP2 - LAYOUT AND SECTIONS
H353004-40000-221-294-002-0001	STANDARD DRAWING - EARTHWORKS AND DRAINAGE DETAILS
DRAWING No.	DRAWING TITLE
1	REFERENCE DRAWINGS

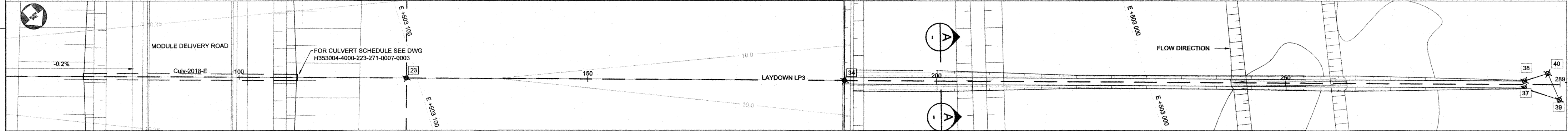


FOR CONSTRUCTION				HATCH			
No.	DESCRIPTION	BY	CHKD	DATE	ROLE	NAME	SIGNATURE
1	LP2 FOOTPRINT REVISED TO ACCOMMODATE NEW PSC	IBH	FIH	15/01/2019	AREA LEAD	V. LAURIC	[Signature]
2	LP2 EXTENDED TO THE EAST	IBH	FIH	20/02/2018	AREA LEAD	V. LAURIC	[Signature]
3	EDC STAMP REMOVED	GPM	FIH	18/04/2018	AREA MANAGER	R. GOOSEN	[Signature]
4	APPROVED FOR CONSTRUCTION						
REVISIONS				DRAWING APPROVAL STATUS: Approved for Construction			

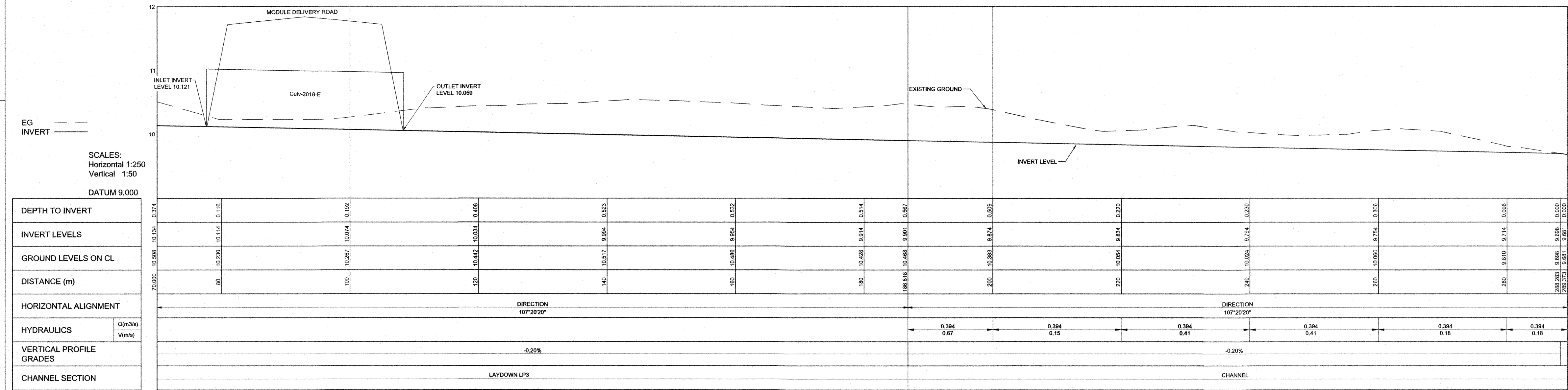
Baffinland			
BAFFINLAND IRON MINES LP MARY RIVER EXPANSION PROJECT			
PORT SITE LAYDOWN AREA LP2 DRAINAGE PLAN			
SCALE: 1:500 OR AS NOTED	DWG. No. H353004-40000-228-272-001-0001	REV 3	SHEET SIZE: E



PLAN ON LP3 LAYDOWN
SCALE 1:250



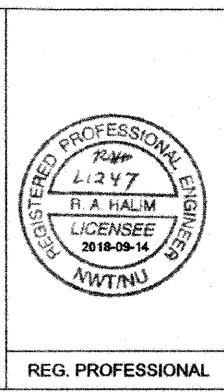
DETAIL - PLAN ON STORMWATER CHANNEL No. 1
SCALE 1:250



LONGITUDINAL SECTION G-G - STORMWATER CHANNEL No. 1

DRAWING No.	DRAWING TITLE
H353004-00000-221-294-0002-0001	EARTHWORKS AND DRAINAGE DETAILS
H353004-00000-223-271-0007-0004	MODULE DELIVERY ROAD PLAN AND PROFILE SHEET 4 OF 4
H353004-00000-223-271-0007-0005	MODULE DELIVERY ROAD PLAN AND PROFILE SHEET 3 OF 4
H353004-00000-221-294-0001-0001	STANDARD DRAWING - TYPICAL CULVERT DETAIL
H353004-00000-221-271-0005-0001	LAYDOWN AREA LP3
H353004-00000-221-294-0008-0001	STANDARD DRAWINGS - TYPICAL PAD, DITCH AND BERM SECTIONS
H353004-00000-221-273-0001-0001	HAUL, PRIMARY AND SECONDARY ROADS - TYPICAL CROSS SECTIONS
H353004-00000-220-272-0001-0001	PORT SITE - BLOCK PLAN

REFERENCE DRAWINGS
1
2
3
4
5
6
7
8

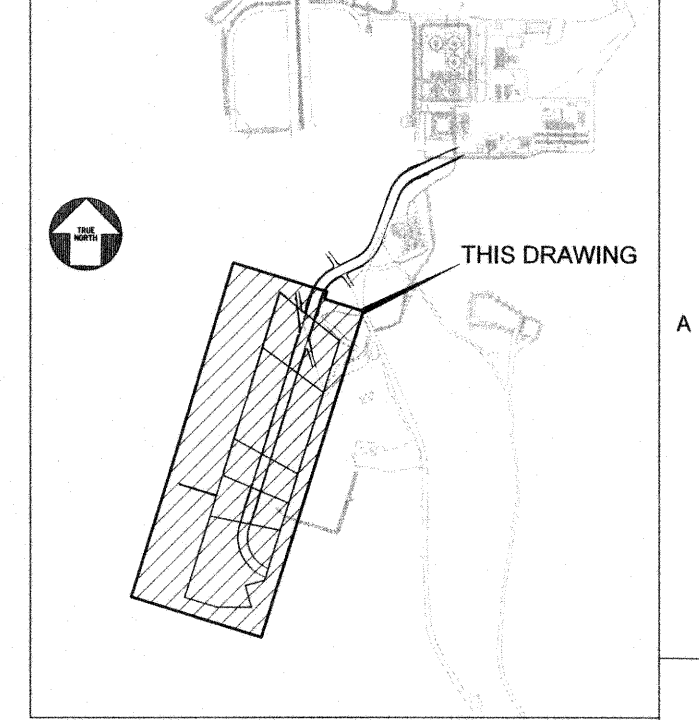


FOR CONSTRUCTION	
1	EDC STAMP REMOVED
0	APPROVED FOR CONSTRUCTION
No.	DESCRIPTION
	REVIS

DESIGNER	H HERBST
CHECKER	F HUGO
DESIGN COORD.	R GOOSEN
RESP. ENG.	R HALIM
LEAD DISC. ENG.	A GROBBELAAR
AREA LEAD	V LAVRIC
ENG. MANAGER	D STANGER
AREA MANAGER	T ATIBA

DRAFTSPERSON	H HERBST
DESIGNER	H HERBST
CHECKER	F HUGO
DESIGN COORD.	R GOOSEN
RESP. ENG.	R HALIM
LEAD DISC. ENG.	A GROBBELAAR
AREA LEAD	V LAVRIC
ENG. MANAGER	D STANGER
AREA MANAGER	T ATIBA

SCALE	1:1000
DWG. No.	H353004-00000-228-272-0012-0001
REV	1



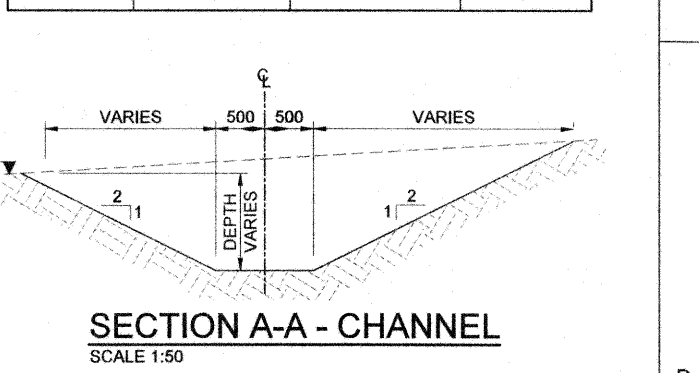
- NOTES:**
1. LIDAR SURVEY PROVIDED BY PHOTSAF (2016)
 2. COORDINATE GRID IS SHOWN IN UTM (NAD83) ZONE 17 AND IS IN METERS.
 3. EG CONTOURS AND ELEVATIONS ARE IN METERS. CONTOUR INTERVAL IS 0.5m.
 4. LAYDOWN CONTOURS AND ELEVATIONS ARE IN METERS. CONTOUR INTERVAL IS 0.25m.
 5. ALL DIMENSIONS ARE IN MILLIMETER UNLESS NOTED OTHERWISE.
 6. FOR TYPICAL LAYERWORKS FOR FINISHED GRADING, REFER TO DETAIL 1 ON DWG No. H353004-00000-221-294-0002-0001
 7. FOR ROAD LAYERWORKS REFER TO TYPICAL DETAILS SHOWN ON DWG. No. H353004-00000-221-273-0001-0001

LEGEND:

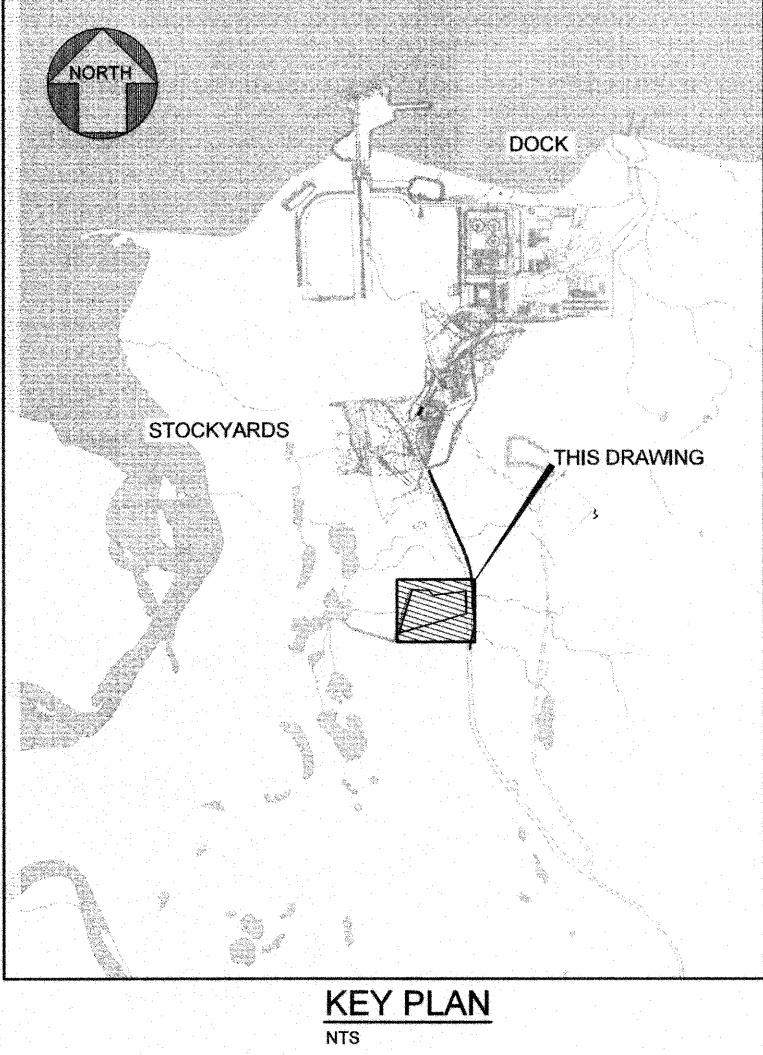
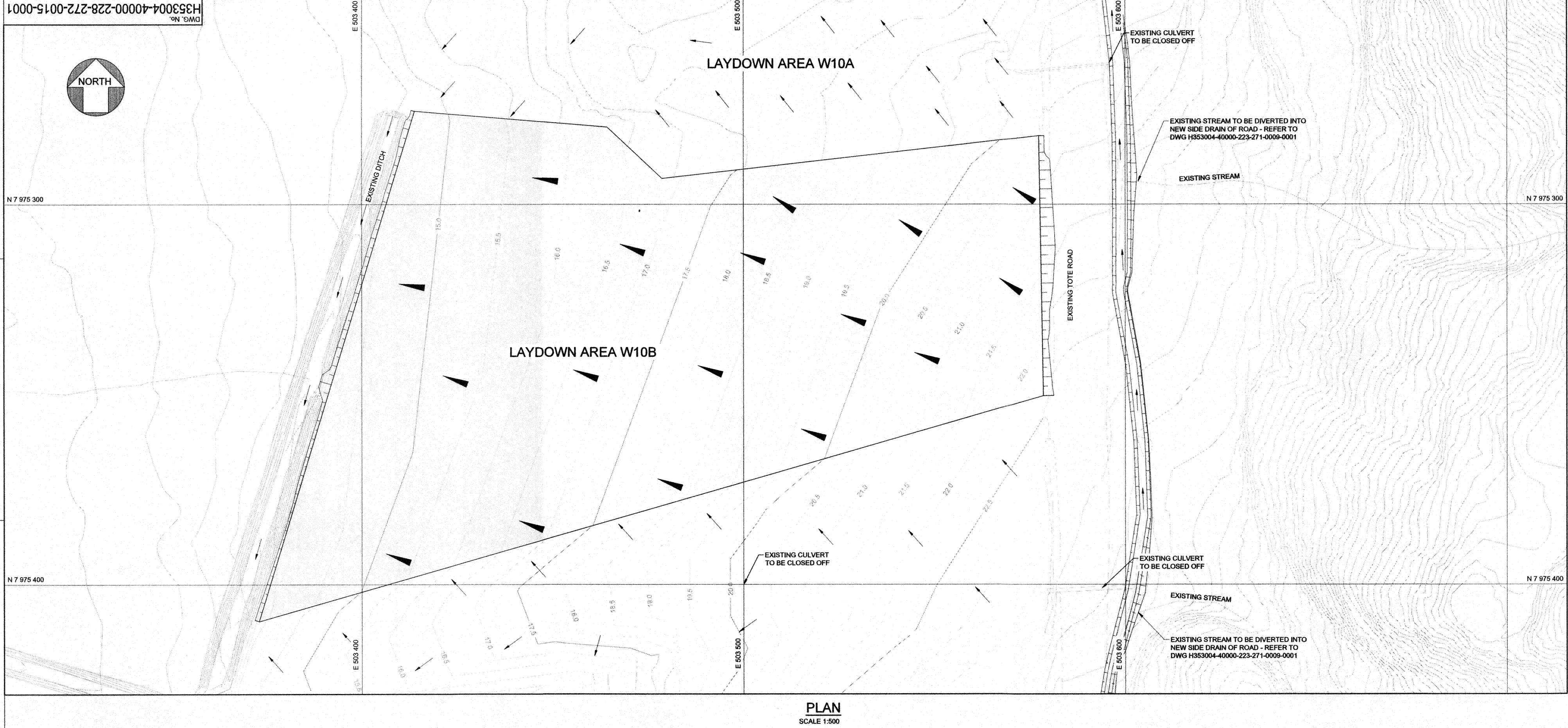
10.20	CONTOUR ELEVATION
43	SETTING OUT POINT NUMBER
EG	EXISTING GROUND
CH	CHAINAGE
EL	ELEVATION
→	OFF PAD FLOW DIRECTION
→	ON PAD FLOW DIRECTION

**LAYDOWN LP3
SETTING OUT COORDINATES**

POINT	E	N	LEVEL
34	503041.498	7975062.620	9.901
37	502948.601	7975092.145	9.706
38	502948.303	7975091.190	9.706
39	502944.325	7975095.224	9.695
40	502944.802	7975091.124	9.699



SECTION A-A - CHANNEL
SCALE 1:50



NOTES:

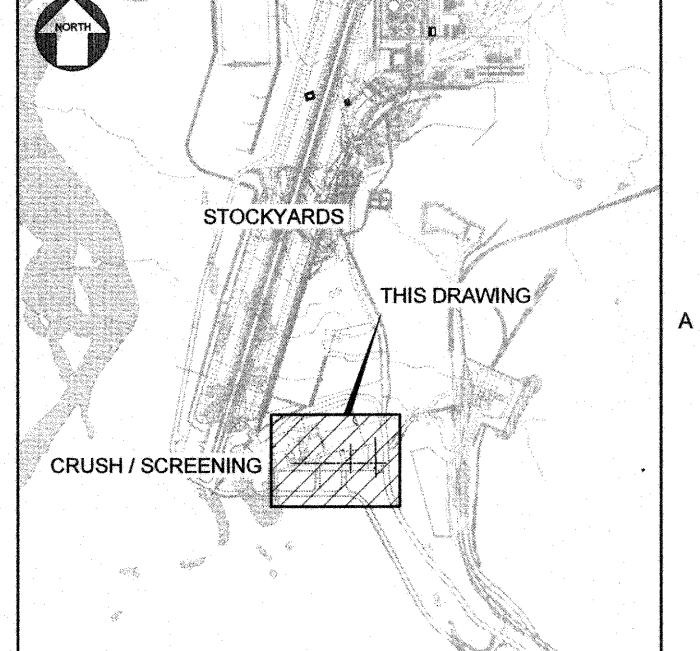
1. LIDAR SURVEY PROVIDED BY PHOTOSAT (2016)
2. CO-ORDINATE GRID IS SHOWN IN UTM (NAD83) ZONE 17 AND IS IN METERS.
3. CONTOURS ARE IN METERS. CONTOUR INTERVAL IS 0.5m.
4. ALL DIMENSIONS SHOWN ARE IN METERS, UNLESS NOTED OTHERWISE.

LEGEND:

- OFF PAD FLOW DIRECTION
- ▲ ON PAD FLOW DIRECTION

PERMIT TO PRACTICE
HATCH LTD.
Signature _____
Date 2018-08-14
PERMIT NUMBER: P 512
The Association of Professional Engineers,
Geologists and Geophysicists of NWT/NJ

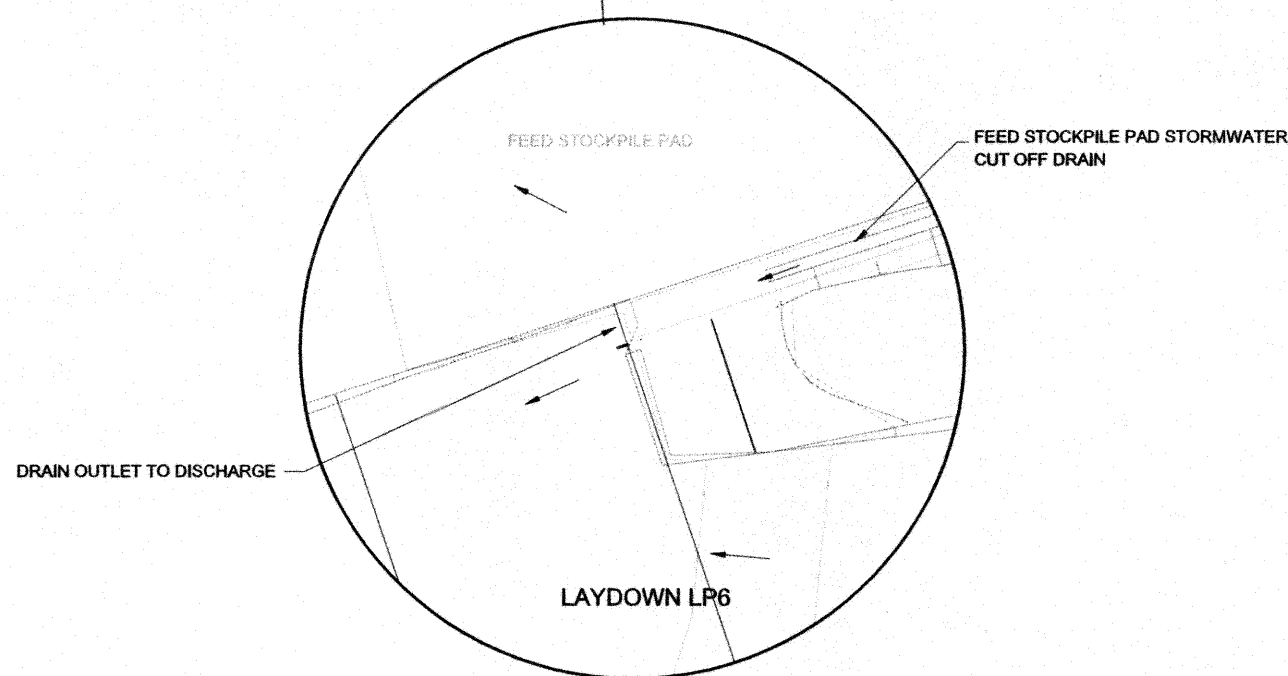
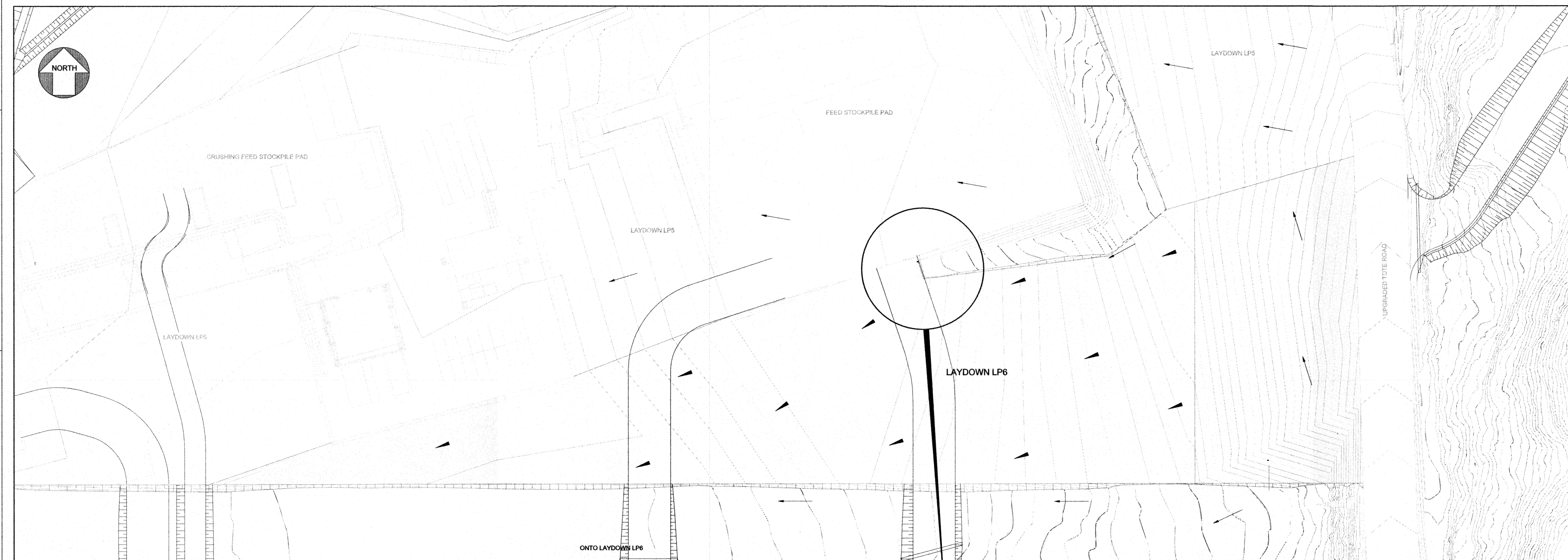
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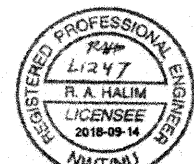
NOTES:

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.

LEGEND:



H353004-40000-221-271-0009-0001	LAYDOWN AREA LP6 - LAYOUT AND PROFILES
DRAWING No.	DRAWING TITLE
REFERENCE DRAWINGS	



FOR CONSTRUCTION

1	EDC STAMP REMOVED, DUMPER AND INDEXER STORAGE PAD REMOVED
0	APPROVED FOR CONSTRUCTION
No.	DESCRIPTION

THIS DRAWING WAS PREPARED BY HATCH LTD. ("HATCH") FOR THE EXCLUSIVE USE OF RAFFINLAND IRON MINES LP ("CLIENT") AND ITS USE IS SUBJECT TO THE TERMS AND CONDITIONS OF THE CONTRACT BETWEEN HATCH AND THE CLIENT. HATCH LIMITED ASSUMES NO LIABILITY FOR THE ACCURACY OF THE INFORMATION CONTAINED HEREIN OR 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. THIS DRAWING, AND THE INFORMATION CONTAINED HEREIN, SHALL BE TREATED AS CONFIDENTIAL FOR ALL OTHER PURPOSES AND SHALL NOT BE MODIFIED WITHOUT THE WRITTEN CONSENT OF HATCH.

DRAFTSPERSON	I BARNARD	NR	16/04/2018
DESIGNER	I BARNARD	NR	16/04/2018
CHECKER	F HUGO	<i>F Hugo</i>	2018-09-14
DESIGN COORD.	R GOOSEN	<i>R Goosen</i>	2018-09-13
RESP. ENG.	R HALIM	<i>R Halim</i>	2018-09-14
LEAD DISC. ENG.	A GROBBELAAR	<i>A Grobbelaar</i>	2018-09-13
AREA MANAGER	V LAIRV	<i>V Lairv</i>	2018-09-14
ENG. MANAGER	D STANGER	<i>D Stanger</i>	2018-09-14
AREA MANAGER	T ATIBA	<i>T Atiba</i>	2018-09-14
ROLE	NAME	SIGNATURE	DATE

DRAWING APPROVAL STATUS: Approved for Construction

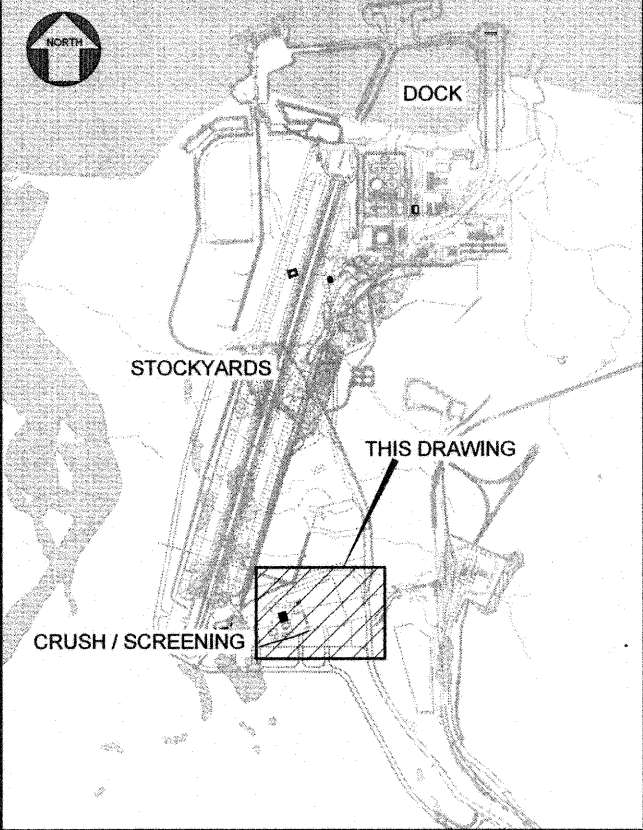
 Baffinland		
BAFFINLAND IRON MINES LP MARY RIVER EXPANSION PROJECT		
PORT SITE LAYDOWN AREA LP6 DRAINAGE PLAN		
SCALE 1:1,000 OR AS NOTED	DWG. No. H353004-40000-228-272-0016-0001	RI

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.

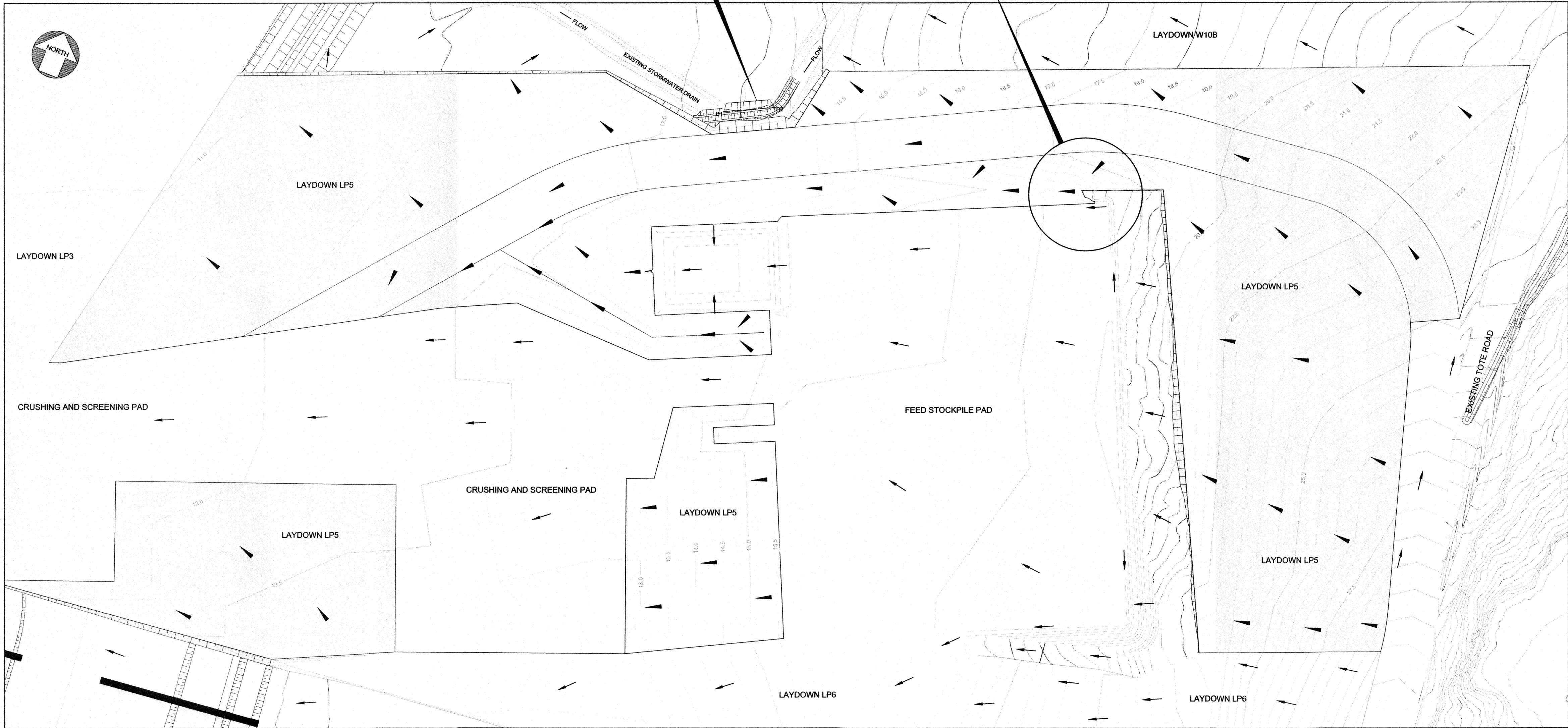
LEGEND:

- 26.5 — CONTOUR
→ OFF PAD FLOW DIRECTION
▲ ON PAD FLOW DIRECTION



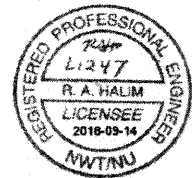
KEY PLAN

TOE OF DRAIN CHAMFER SETTING OUT DATA
D1 E +503 345.334
N +7 974 969.561
D2 E +505 359.910
N +7 974 974.936
INVERT LEVEL TO MATCH EXISTING. BATTER
SLOPES TO BE CUT AT 1:1.5



PERMIT TO PRACTICE
HATCH LTD.
Signature _____
Date 2018-09-14
PERMIT NUMBER: P 512
The Association of Professional Engineers,
Geologists and Geophysicists of NWT/NU

REFERENCE DRAWINGS	DRAWING TITLE
H353004-40000-221-271-0009-0001	LAYDOWN AREA LP6 - LAYOUT AND PROFILES
DRAWING No.	DRAWING TITLE



REG. PROFESSIONAL

FOR CONSTRUCTION

No.	DESCRIPTION	REVISIONS
1	EDC STAMP REMOVED	
0	FOR CONSTRUCTION	

HATCH

DRAFTSPERSON	I BARNARD	NR	16/04/2018
DESIGNER	F HUGO	NR	16/04/2018
CHECKER	H HERBST		2018-09-14
DESIGN COORD.	R GOOSEN		2018-09-13
RESP. ENG.	R HALIM		2018-09-14
LEAD DISC. ENG.	A GROBBELAAR		2018-09-13
AREA LEAD	V LAVRIC		2018-07-17
ENG. MANAGER	D STANGER		2018-07-17
AREA MANAGER	T ATIBA		2018-07-17
ROLE	NAME	SIGNATURE	DATE
			2018-07-17

DRAWING APPROVAL STATUS: Approved for Construction

Baffinland
BAFFINLAND IRON MINES LP
MARY RIVER EXPANSION PROJECT
PORT SITE
LAYDOWN AREA LP5
DRAINAGE PLAN
SCALE 1:500
DWG. No. H353004-40000-228-272-0017-0001
REV 1
SHEET SIZE: E