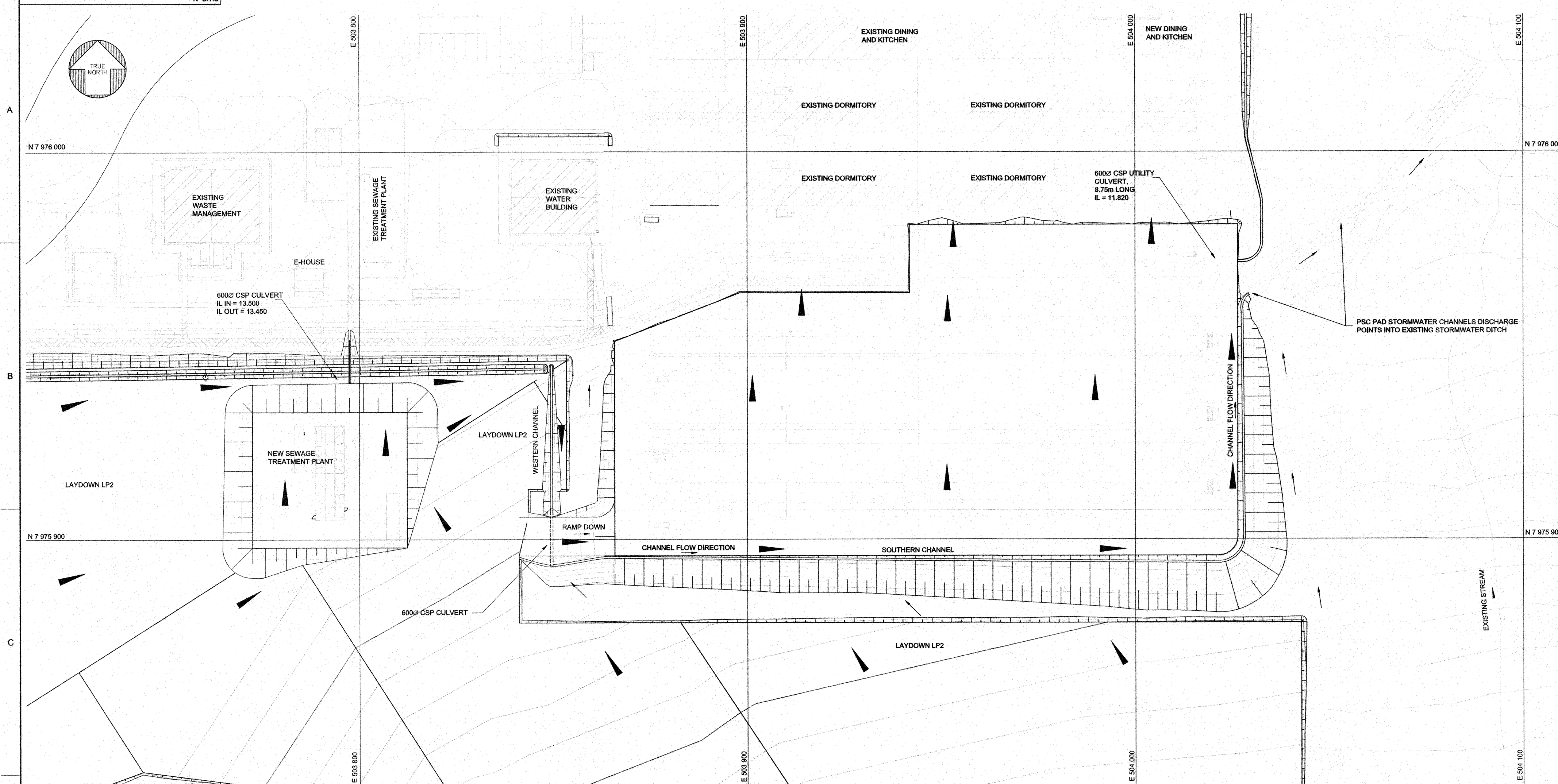


Attachment 15.5

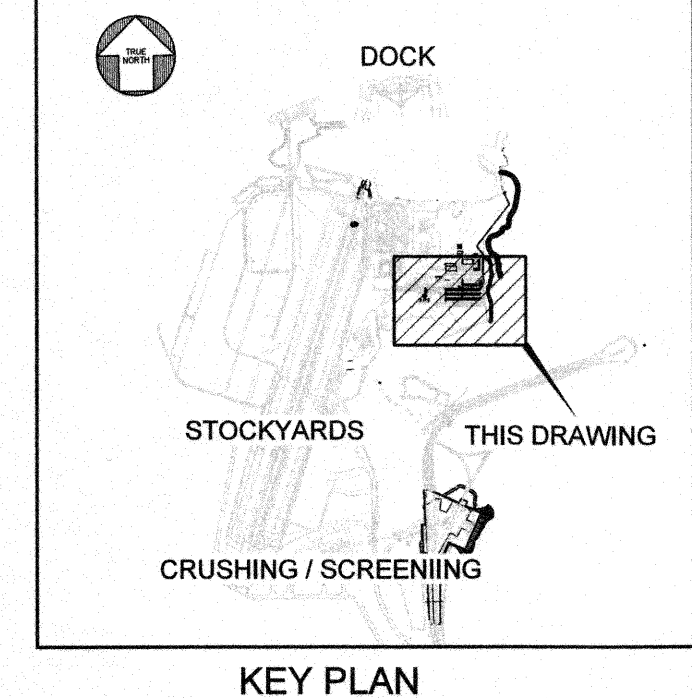
Milne Port Site Complex Expansion Drawings

(3 Pages)



PORT SITE COMPLEX EXPANSION - DRAINAGE PLAN
SCALE 1:500



SCALE 1:500



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 PAD LAYERWORKS CONSTRUCTION REFER TO DETAIL 1 ON DWG. No. H353004-00000-221-294-0002-0001.

LEGEND:

- OFF PAD FLOW DIRECTION
 ON PAD FLOW DIRECTION
 EXISTING BUILDINGS

PERMIT TO PRACTICE
HATCH LTD.
Signature _____
Date _____ 2016-03-01
PERMIT NUMBER: P 512
The Association of Professional Engineers,
Geologists and Geophysicists of NWT/NU

FOR CONSTRUCTION

HATCH

Baffinland

BAFFINLAND IRON MINES LP
MARY RIVER EXPANSION PROJECT

PORT SITE
PORT SITE COMPLEX PAD EXPANSION
DRAINAGE PLAN

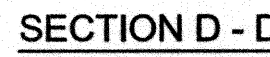
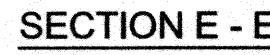
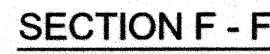
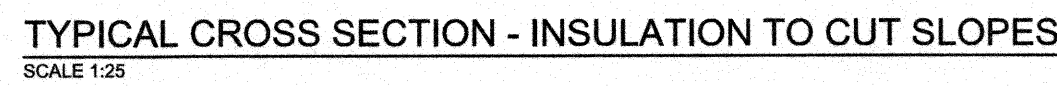
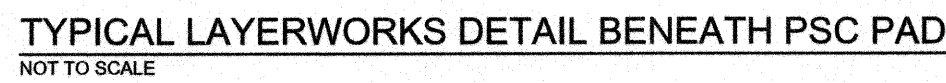
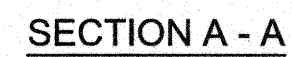
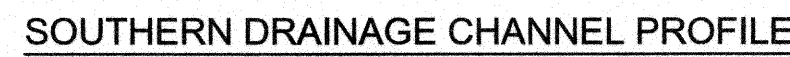
	DRAFTSPERSON	I BARNARD	NR
	DESIGNER	I BARNARD	NR
	CHECKER	F HUGO	<i>Bj</i>
	DESIGN COORD.	R GOOSEN	<i>hulb</i>
	RESP. ENG.	R HALIM	
	LEAD DISC. ENG.	A GROBELAAR	
	AREA LEAD	V LAVRIC	<i>i.ing</i>
	ENG. MANAGER	R GOOSEN	
019	AREA MANAGER	T ATIBA	<i>z</i>

DATE	AREA MANAGER	PROJECT	2017
ROLE	NAME	SIGNATURE	
DRAWING APPROVAL STATUS:		Approved for Construction	

DRAWING APPROVAL STATUS:	Approved for Constr
--------------------------	---------------------

SCALE 1:500 OR AS NOTED	DWG. No. H353004-40000-228-272-0018-0001	REV 0
-------------------------------	--	-----------------

	\$TIMES
USERSAMES	
DATES	
FILES	



1. ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.
2. LAYERWORKS TO BE AS PER DETAILS ON DRAWING NO. H353004-0000-221-554-000-001 - DETAIL 1. THE LAYERWORKS FOR THE REST OF THE PAD TO BE AS PER DETAILS ON DRAWING NO. H353004-0000-221-554-000-001 - DETAIL 2. THE LAYERWORKS FOR PADS AND LAYDOWNCS SECTION AS SEEN ON THIS DRAWING.
3. FOR THE DRAINAGE PLAN REFER TO DRAWING NO. H353004-0000-228-272-018-001.
4. FILL MATERIAL A'S GRAIN SIZE DISTRIBUTION SHALL FOLLOW THE SPECIFICATION OF FILL MATERIALS, H353004-0000-280-078-000-001.
5. THE PLACEMENT AND COMPACTION OF TYPE 5, 8 AND 12 SHOULD FOLLOW THE REQUIREMENTS IN THE SPECIFICATION OF "PLACEMENT OF FILL, H353004-0000-221-078-0001".
6. "PLACEMENT OF FILL SHALL BE INSPECTED AND APPROVED BY AN EXPERIENCED GEOTECHNICAL ENGINEER OR THEIR DESIGNATE PRIOR TO FILLING THE NEXT LAYER.

PERMIT TO PRACTICE
HATCH LTD.

Signature [Signature]
Date 2019-03-01

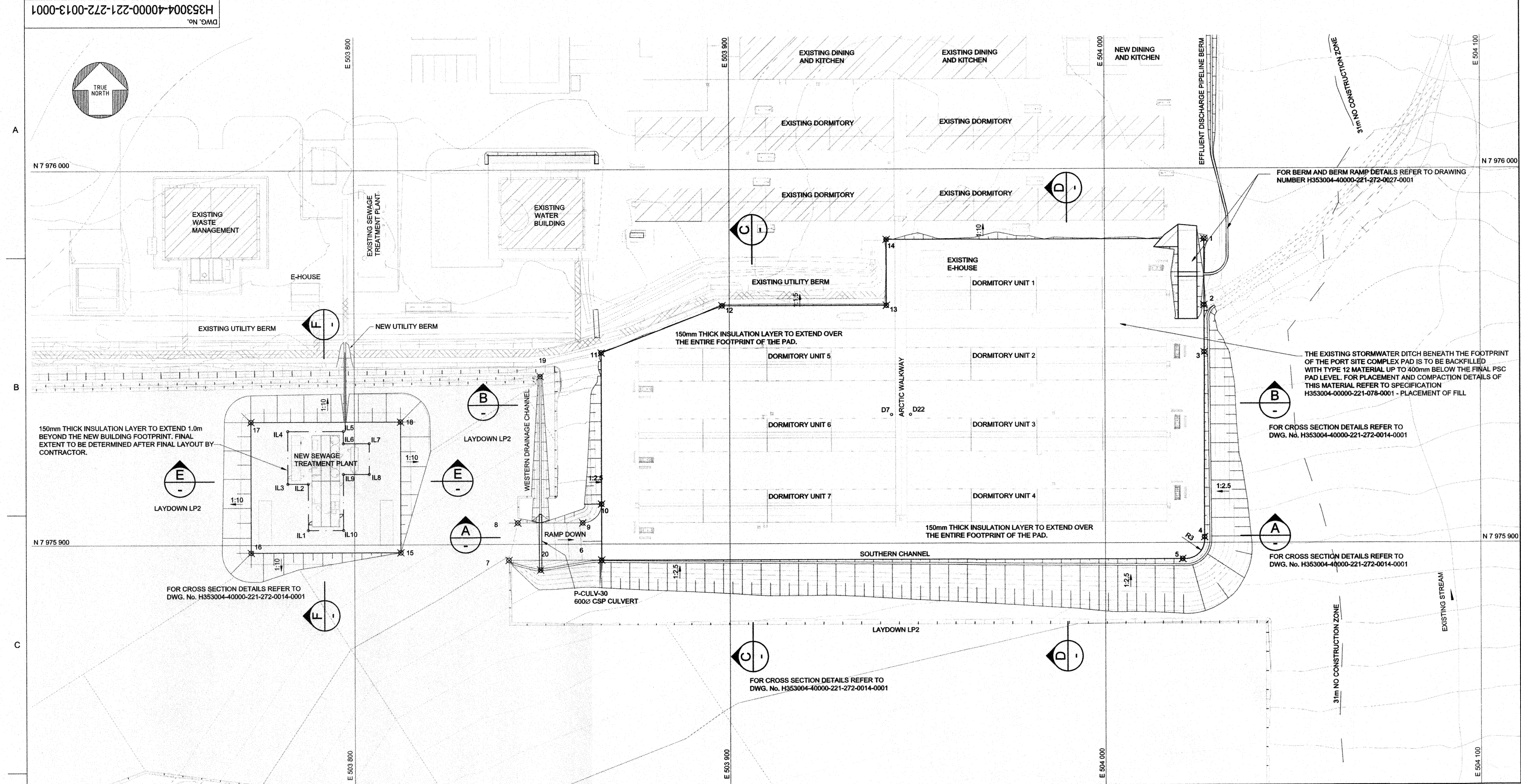
PERMIT NUMBER: P 512
The Association of Professional Engineers,
Geologists and Geophysicists of NWT/NU

Baffinland

BAFFINLAND IRON MINES LP
MARY RIVER EXPANSION PROJECT

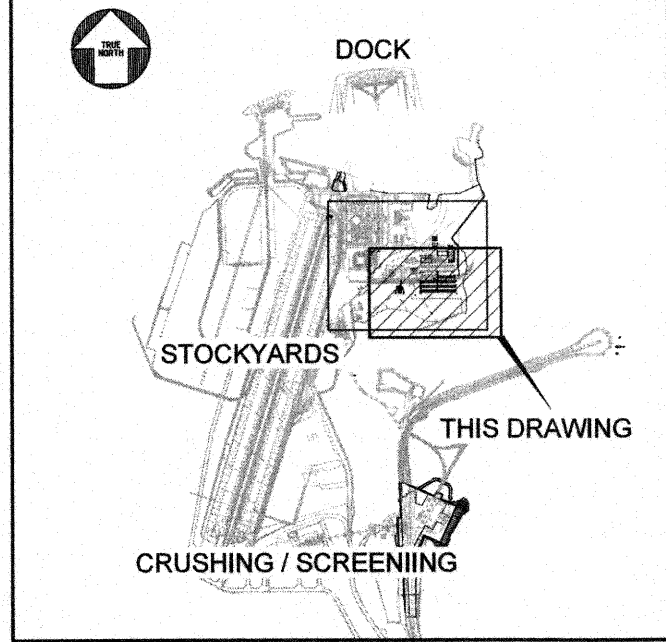
PORT SITE
PORT SITE COMPLEX PAD EXPANSION
PAD CROSS SECTIONS

\$USERNAMES	\$TIMES
\$DATES	
\$FILES	



PLAN ON PORT SITE COMPLEX EXPANSION
SCALE 1:500

PORT SITE COMPLEX PADS SETTING OUT CO-ORDINATES			
POINT	E	N	LEVEL
1	504 026.448	7 975 981.259	11.840
2	504 026.436	7 975 983.604	12.117
3	504 026.428	7 975 950.998	12.243
4	504 026.396	7 975 901.539	12.737
5	504 020.562	7 975 895.727	12.796
6	503 865.740	7 975 895.727	12.796
7	503 841.062	7 975 895.737	15.042
8	503 843.438	7 975 905.736	14.855
9	503 860.744	7 975 905.728	12.881
10	503 865.746	7 975 910.725	12.646
11	503 865.755	7 975 951.102	12.243
12	503 898.050	7 975 963.658	12.116
13	503 941.860	7 975 963.658	12.116
14	503 941.860	7 975 981.259	11.940
15	503 812.276	7 975 897.916	14.300
16	503 772.429	7 975 897.916	14.300
17	503 772.429	7 975 932.864	14.250
18	503 812.276	7 975 932.864	14.250
19	503 949.488	7 975 944.878	13.228
20	503 949.485	7 975 893.128	12.965

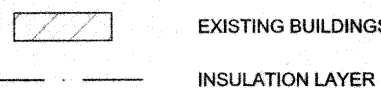


KEY PLAN

NOTES:

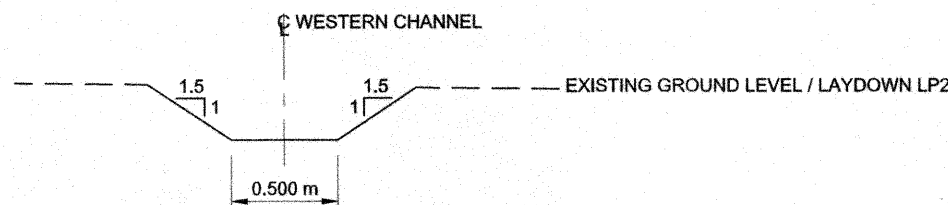
- LIDAR SURVEY PROVIDED BY PHOTASAT (2016). LEVELS BASED ON GEODETIC DATUM.
- COORDINATE GRID IS SHOWN IN UTM (NAD83) ZONE 17 AND IS IN METERS.
- CONTOURS ARE IN METERS. CONTOUR INTERVAL IS 0.5m. ALL DIMENSIONS SHOWN ARE IN METERS.
- BULK LAYERWORKS TO BE AS PER DETAILS SHOWN ON DRAWING No. H353004-00000-221-294-0002-0001 - DETAIL 2.
- FOR THE DRAINAGE PLAN REFER TO DRAWING No. H353004-00000-228-272-0018-0001.
- FILL MATERIALS GRAIN SIZE DISTRIBUTION SHALL FOLLOW THE SPECIFICATION OF 'FILL MATERIALS, H353004-00000-280-078-0002'.
- THE PLACEMENT AND COMPACTION OF TYPE 5, 8 AND 12 SHALL FOLLOW THE REQUIREMENTS IN THE SPECIFICATION OF 'PLACEMENT OF FILL, H353004-00000-221-078-0001'.
- FOR LAYERWORKS BENEATH THE DORMITORY UNITS AND ARCTIC WALKWAY REFER TO DRAWING No. H353004-00000-221-272-0014-0001 - PAD CROSS SECTIONS.
- PLACEMENT OF FILLS SHOULD BE INSPECTED AND APPROVED BY AN EXPERIENCED GEOTECHNICAL ENGINEER OR THEIR DESIGNATE PRIOR TO FILLING THE NEXT LAYER.

LEGEND:



INSULATION LAYER SETTING OUT CO-ORDINATES			
POINT	E	N	
IL.1	503 787.646	7 975 903.953	
IL.2	503 787.646	7 975 916.340	
IL.3	503 782.231	7 975 916.340	
IL.4	503 782.231	7 975 930.403	
IL.5	503 797.059	7 975 930.403	
IL.6	503 797.059	7 975 927.128	
IL.7	503 801.990	7 975 927.128	
IL.8	503 801.990	7 975 916.908	
IL.9	503 797.059	7 975 916.908	
IL.10	503 797.059	7 975 903.953	

NOTE:
150mm INSULATION BOARD TO BE PLACED ON SEWER TREATMENT PLANT AS INDICATED.
IF CONTAINERS / PLANT IS PLACED DIFFERENTLY THEN INSULATION BOARD AND BACKFILL IS TO BE CHANGED ACCORDINGLY.



TYPICAL SECTION THROUGH WESTERN STORMWATER CHANNEL
SCALE 1:25

FOR CONSTRUCTION

THIS DRAWING WAS PREPARED BY HATCH LTD. FOR THE EXCLUSIVE USE OF BAFFINLAND IRON MINES LTD. (PVT) LTD. AND IS NOT TO BE USED IN ANY MANNER OTHER THAN THAT AUTHORIZED BY HATCH LTD. ANY REUSE OR MODIFICATION OF THIS DRAWING WITHOUT THE WRITTEN CONSENT OF HATCH LTD. IS PROHIBITED.

0 APPROVED FOR CONSTRUCTION

REVISIONS

DATE 28/02/2019

BY IHB

CHKD FH

DATE 28/02/2019

ROLE

NAME

SIGNATURE

DATE

DRAWING APPROVAL STATUS: Approved for Construction

HATCH

DRAFTSPERSON I BARNARD NR

DESIGNER I BARNARD NR

CHECKER F HUGO 2019-03-01

DESIGN COORD. R GOOSEN 2019-03-01

RESP. ENG. R HALIM 2019-03-01

LEAD DISC. ENG. A GROBELAAR 2019-03-01

AREA MANAGER V LAVRIC 2019-03-01

PROJ. MANAGER TATBA 2019-03-01

CLIENT

Baffinland

BAFFINLAND IRON MINES LP

MARY RIVER EXPANSION PROJECT

PORT SITE COMPLEX PAD EXPANSION LAYOUT PLAN

DWG. No. H353004-40000-221-272-0013-0001

SCALE 1:500 OR AS NOTED

REV 0

SHEET SIZE: E

PERMIT TO PRACTICE

HATCH LTD.

Signature

Date 2019-03-01

PERMIT NUMBER: P 512

The Association of Professional Engineers, Geologists and Geophysicists of NWTNU

REFERENCE DRAWINGS

H353004-40000-221-272-0027-0001	PSC EFFLUENT DISCHARGE PIPELINE - PLAN AND PROFILE
H353004-PC003-234-248-0001	PC003 - INDEXER FOUNDATION SUPPLY PACKAGE
H353004-40000-221-272-0014-0001	PORT SITE COMPLEX EXPANSION - CROSS SECTIONS
H353004-40000-228-272-0018-0001	PORT SITE COMPLEX EXPANSION - DRAINAGE PLAN
H353004-40000-221-273-0004-0001	LAYDOWN AREA LP2 - LAYOUT AND SECTIONS
H353004-00000-221-294-0002-0001	STANDARD DRAWING - EARTHWORKS AND DRAINAGE DETAILS

DRAWING No.

DRAWING TITLE