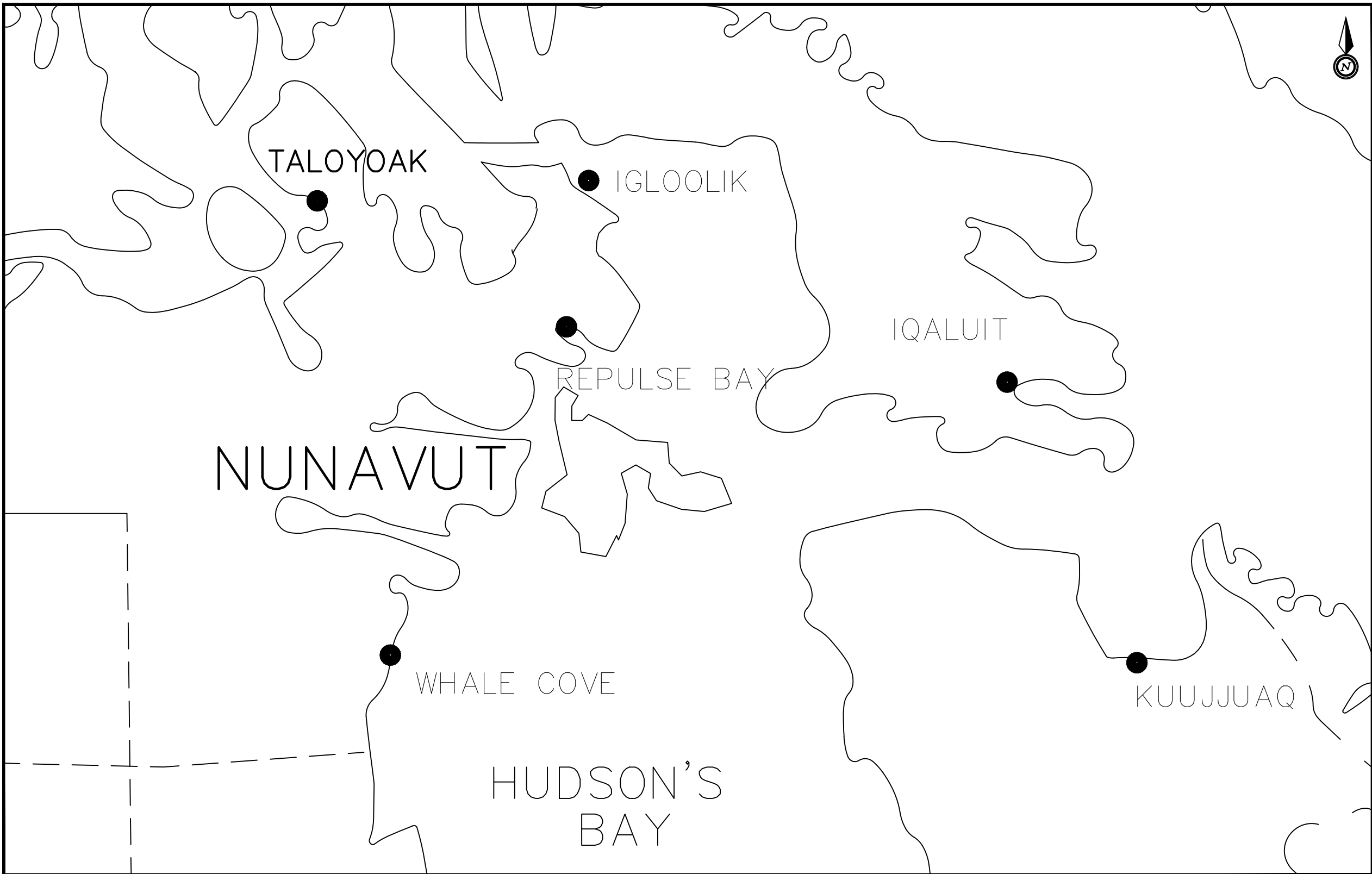


COMMUNITY OF TALOYOAK



INDEX OF INCLUDED DRAWINGS	
SHEET NUMBER	SHEET TITLE
COV	COVER SHEET
OSP	OVERALL SITE PLAN
VOL	OVERALL CONTOURS AND ESTIMATED VOLUMES
DET-1	CROSS SECTIONS
DET-2	CROSS SECTIONS
DET-3	CROSS SECTIONS
DET-4	TRUCK DISCHARGE DETAILS
DET-5	PUMPING AND DEWATERING DETAILS
DET-6	LINER DETAILS, SPILLWAY DETAILS AND MISC. DETAILS
DET-7	AIR VENTILATION PIPE DETAILS
DET-8	EXISTING LAGOON DECOMMISSIONING WORK DETAILS
AR-PP	ACCESS ROAD PLAN & DETAILS
AR-XS	ACCESS ROAD CROSS SECTIONS
BH	BOREHOLE DETAILS



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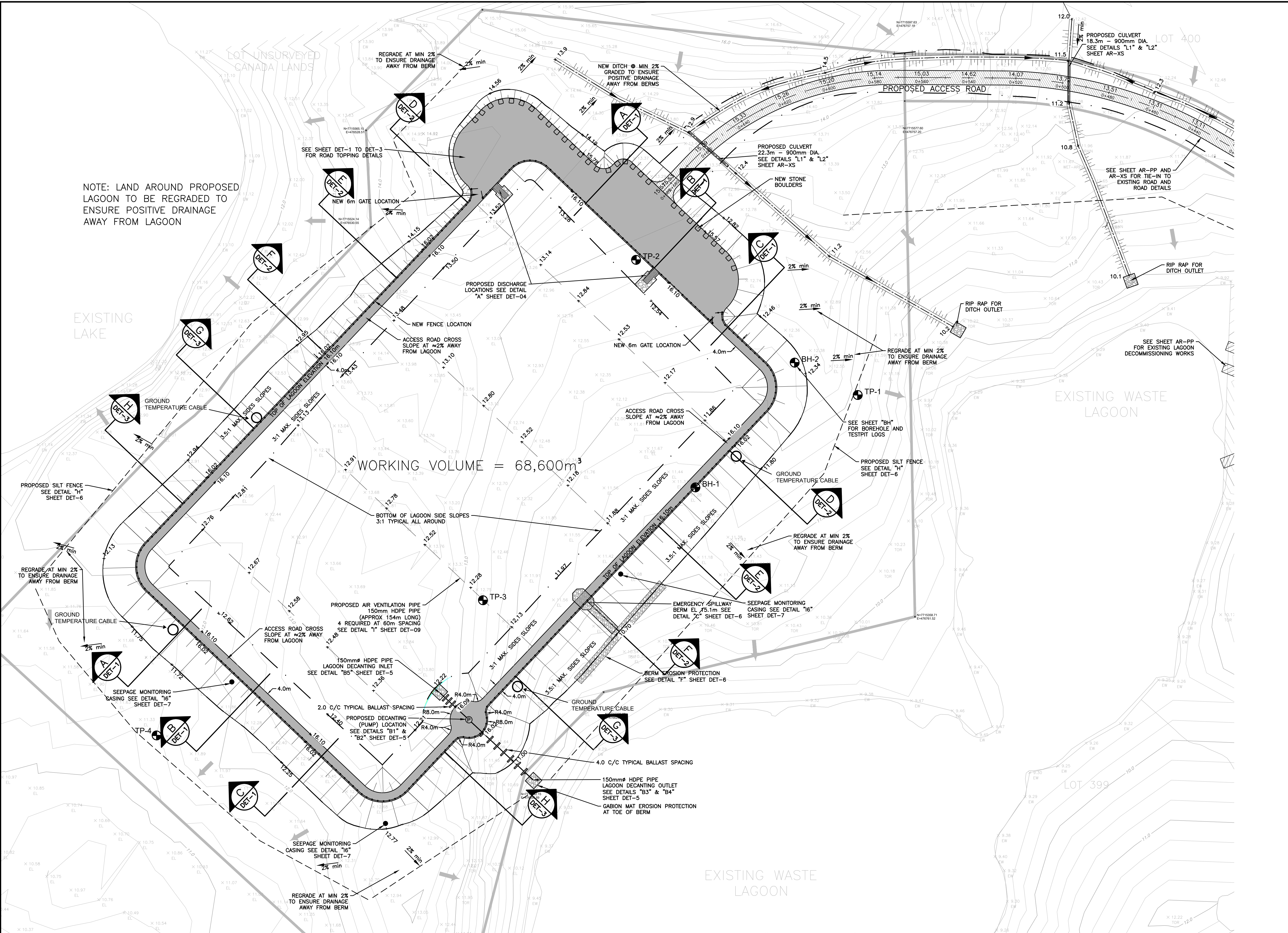
GOVERNMENT OF NUNAVUT TALOYOAK WASTEWATER TREATMENT

PROJECT FRN-21016570-A0

**ISSUED FOR TENDER
PURPOSES ONLY**

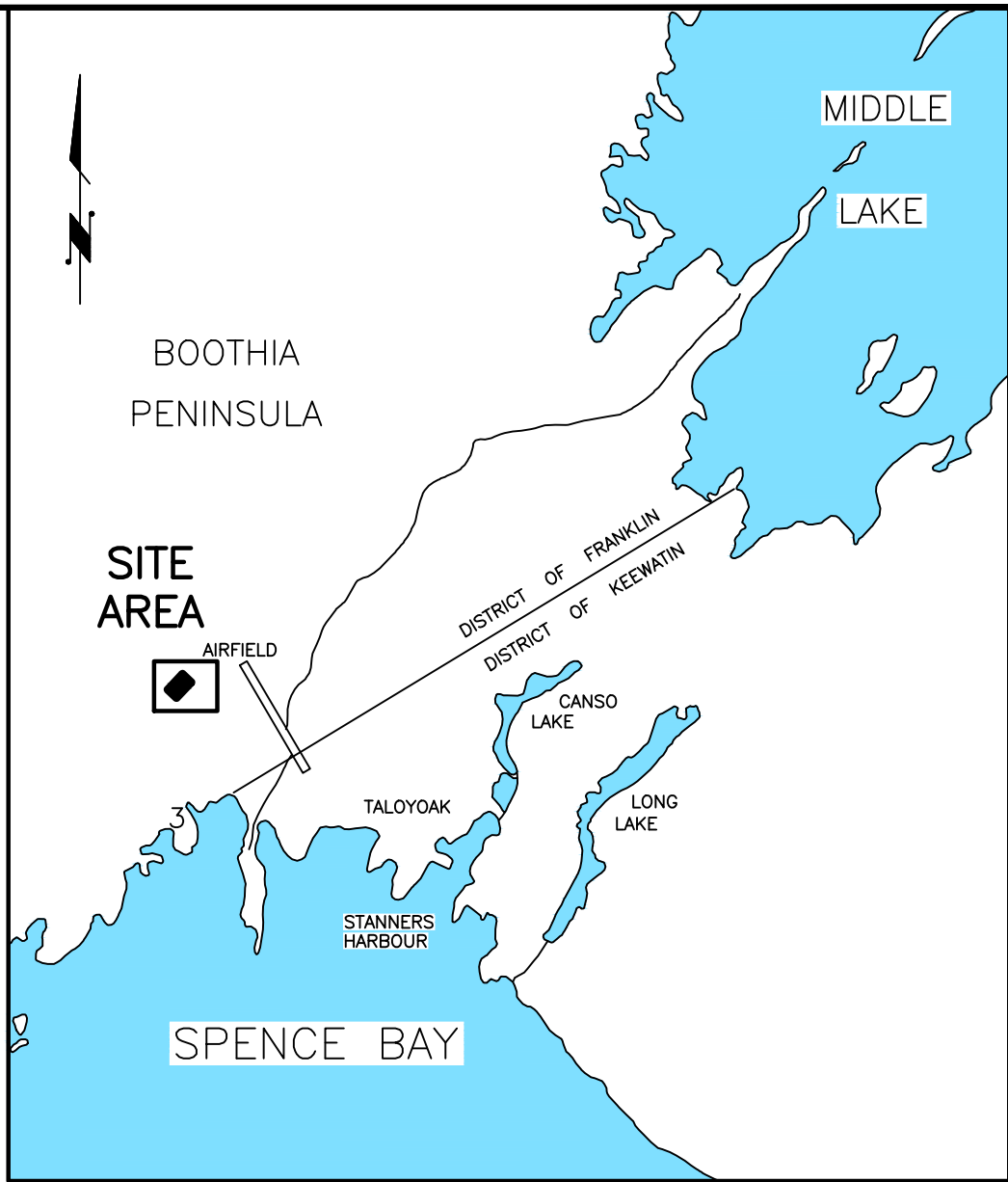
DATE: MARCH 9, 2022

File Name: S:\UTM\16570-00\05 Execution\05 Drawings\01 - OSP.dwg
User: K. Johnson
Date: 16, 2022 3:47 PM
Plotted by: J. B. B.



NOTE: LAND AROUND PROPOSED LAGOON TO BE REGRADED TO ENSURE POSITIVE DRAINAGE AWAY FROM LAGOON

WORKING VOLUME = 68,600m³



KEYPLAN
N.T.S.

CONTROL MONUMENTS UTM ZONE 15 NAD 83 (SCRS), EPOCH 2010.0		
STATION	NORTHING	EASTING
1	7715153.00	479322.86
2	7715447.04	478162.96
3	7715516.46	477264.98
CCM300	7714774.62	479608.48
CCM315	7715693.89	477230.89
CCM333	7714666.83	477909.18

LEGEND

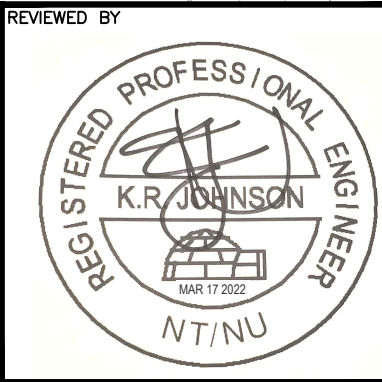
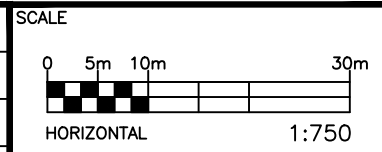
- GABION MAT
- TOP OF BERM & TURNAROUND
- TOP OF ACCESS ROAD
- TOPOGRAPHIC SURVEY POINT
- PROPOSED GRADES
- STONE BOULDERS—SEE DETAIL SHEET FOR SPACING
- SLOPE
- LOCATION OF SILT FENCING
- NEW FENCE LOCATION
- EXISTING DRAINAGE COURSE
- DIRECTION OF EXISTING OVERLAND FLOW
- DIRECTION OF PROPOSED OVERLAND FLOW
- PROPOSED DRAINAGE DITCH
- BOREHOLE/TESTPIT LOCATION
- LOT BOUNDARIES

GEOTECHNICAL POINTS		
POINT	NORTHING	EASTING
BH-1	7715434.08	476678.2135
BH-2	7715487.05	476720.3503
TP-1	7715473.30	476747.1276
TP-2	7715530.68	476653.0125
TP-3	7715386.18	476588.0330
TP-4	7715328.80	476449.4724
TP-5	7715226.01	476511.9526

- NOTES
- CONTRACTORS AND SUBCONTRACTORS SHALL NOT SCALE FROM THIS DRAWING.
 - ANY INCONSISTENCIES AND OMISSIONS FOUND ON THE DRAWINGS MUST BE REPORTED TO THE ENGINEER FOR CLARIFICATION BEFORE COMMENCING THE WORK.
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 - ACCESS TO EXISTING LAGOON DISCHARGE LOCATION IS TO MAINTAINED AT ALL TIMES FOR CONTINUING MUNICIPAL OPERATIONS.

PERMIT OF PRACTICE
EXP SERVICES INC.
Signature: *K. Johnson*
Date: Mar 17 2022
PERMIT NUMBER: P483
NT/NU Association of Professional
Engineers and Geoscientists

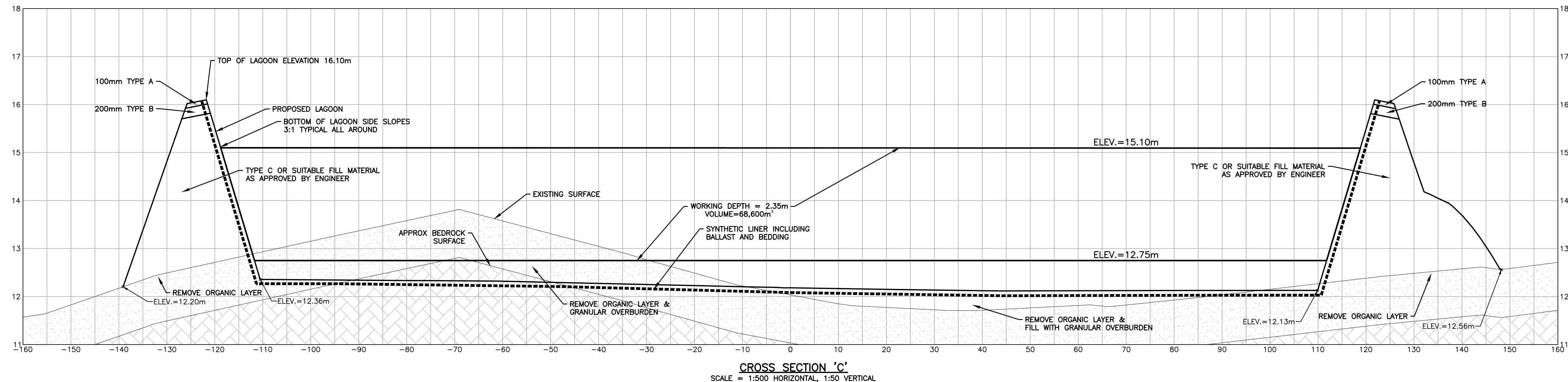
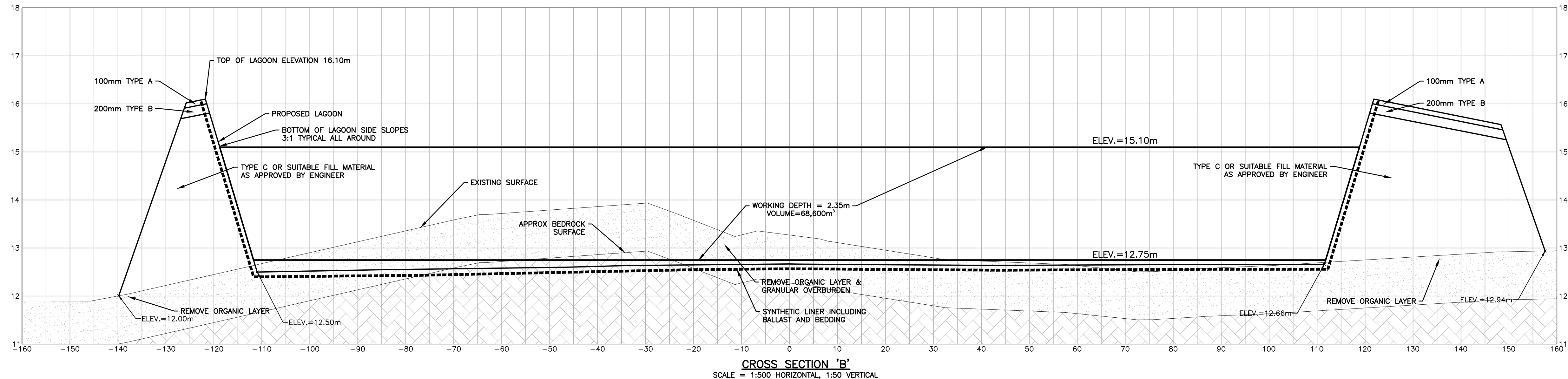
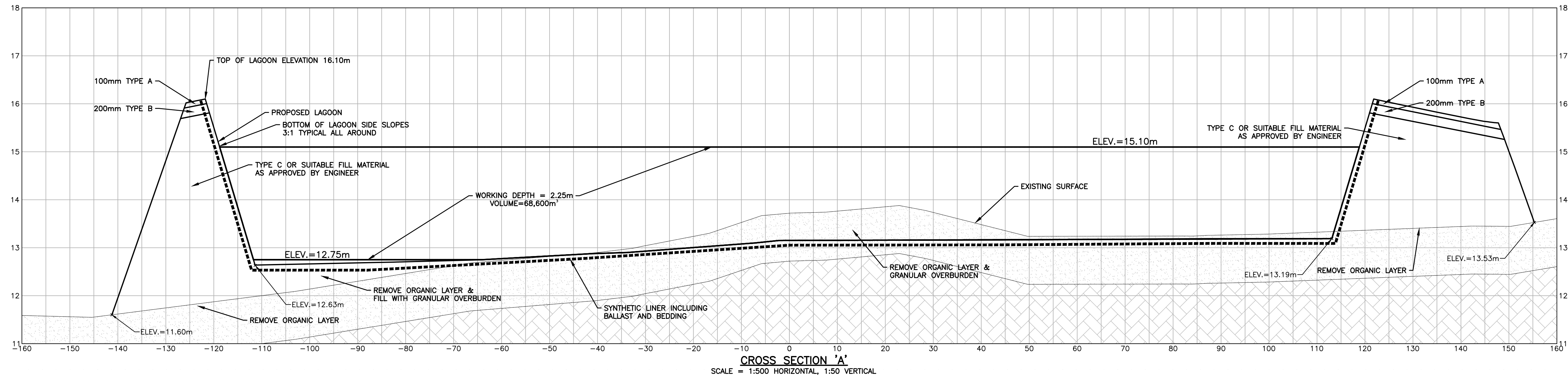
REV	REVISION DESCRIPTION	DATE	BY	APPRO
4	ISSUED FOR TENDER SUBMISSION	22/03/09	CK	KJ
3	99% DESIGN SUBMISSION	22/01/21	CK	KJ
2	75% DESIGN SUBMISSION	21/11/26	CK	KJ
1	PRELIMINARY	21/09/27	IB	KJ



GOVERNMENT OF NUNAVUT
COMMUNITY AND GOVERNMENT SERVICES
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PROJECT
S.BUTLER
DESIGN
C.KEUNG
CHECKED
K.JOHNSON
CAD
I.BILLIARD
PROJECT MANAGER
K.JOHNSON
APPROVED

TALOYOAK WASTEWATER TREATMENT
TALOYOAK, NUNAVUT
OVERALL SITE PLAN
PROJECT No.
FRN-21016570-AD
SURVEY
DATE
DRAWING No.
OSP



- GENERAL NOTES
1. THE SUBBASE SHALL BE UNIFORM AND FREE OF SHARP ROCK FRAGMENTS OR STONES, LARGE STONES AND OTHER DELETERIOUS MATTER SUCH AS CONSTRUCTION DEBRIS AND METALLIC OBJECTS. THE SURFACE SHALL NOT HAVE ANY NATURAL OR FOREIGN OBJECT THAT PROTRUDES ABOVE THE SURFACE OF THE SUBBASE.
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SEWAGE LAGOON VOLUMES	
ELEVATION (m)	VOLUMES (m³)
11.25	0.0
11.50	0.0
11.75	0.0
12.00	71.8
12.25	751.3
12.50	2742.8
12.75	6442.4
13.00	11722.0
13.25	17999.2
13.50	25045.3
13.75	32493.9
14.00	40078.0
14.25	47797.9
14.50	55654.3
14.75	63648.3
15.00	71780.7
15.10	75072.6
15.25	80052.4
15.50	88464.1
15.75	97016.8
16.00	105712.6
16.10	109365.5

- NOTES
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 5. ACCESS TO EXISTING LAGOON DISCHARGE LOCATION IS TO MAINTAINED AT ALL TIMES FOR CONTINUING MUNICIPAL OPERATIONS.

PERMIT OF PRACTICE
EXP SERVICES INC.
Signature *E. Bell*
Date **Mar 17 2022**
PERMIT NUMBER: P483
NT/NU Association of Professional
Engineers and Geoscientists

REV	REVISION DESCRIPTION	DATE	BY	APPD
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SCALE
AS SHOWN
NORTH

DESIGNED BY

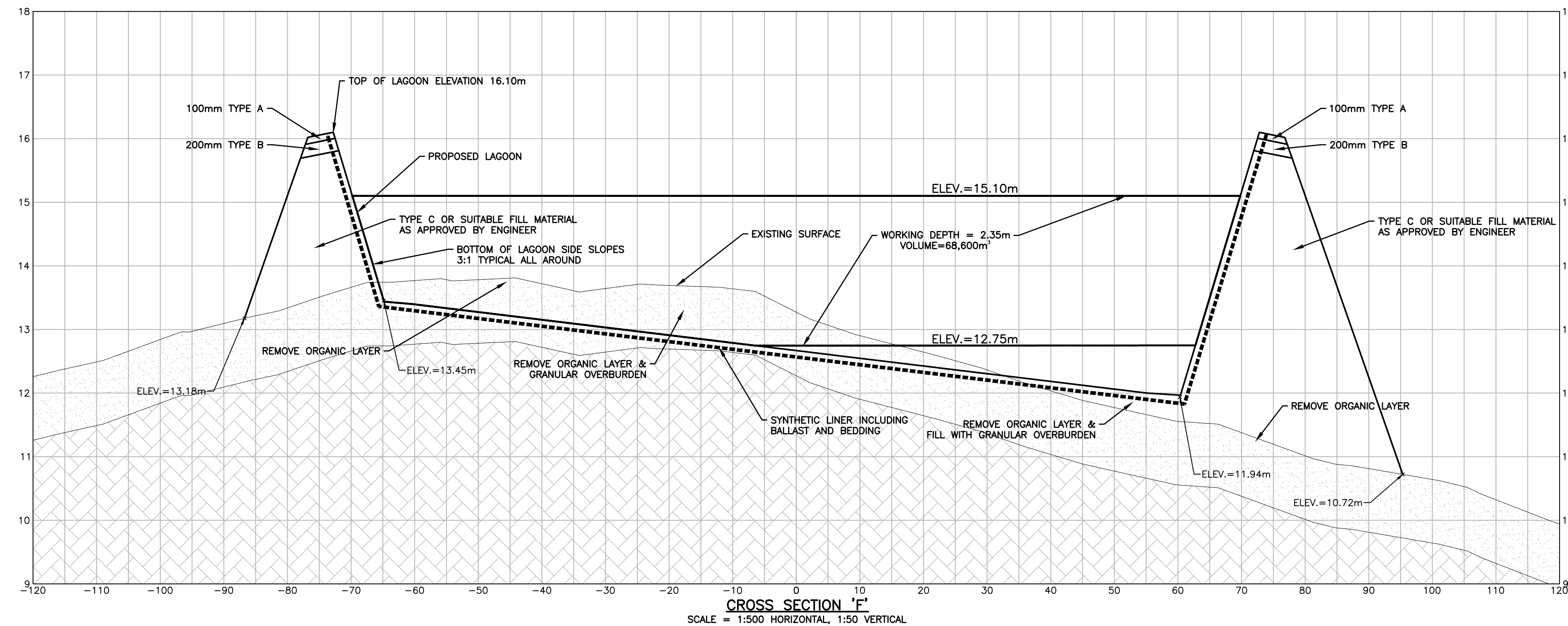
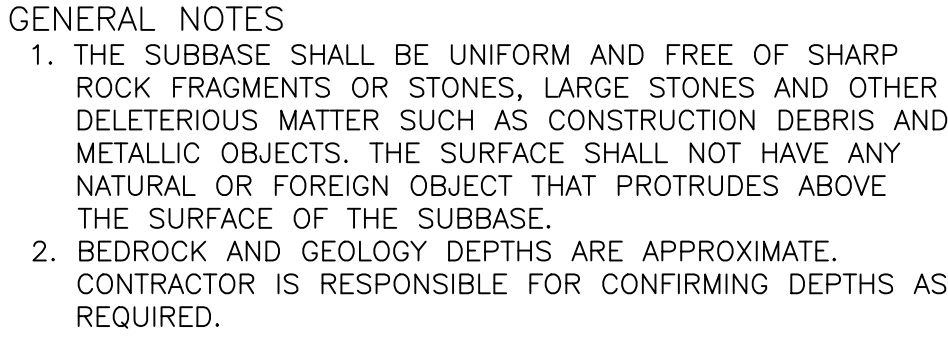
REVIEWED BY
K.R. JOHNSON
REGISTERED PROFESSIONAL ENGINEER
NT/NU

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BASEPLAN
DESIGN
CHECKED
CAD
PROJECT MANAGER
APPROVED

PROJECT
TALOYOAK WASTEWATER TREATMENT
TALOYOAK, NUNAVUT
TITLE
CROSS SECTIONS

PROJECT No.
FRN-21016570-AG
SURVEY
DATE
DRAWING No.
DET-1



NOTES

1. CONTRACTORS AND SUBCONTRACTORS SHALL NOT SCALE FROM THIS DRAWING.
2. DISCREPANCIES AND INCONSISTENCIES AND OMISSIONS FOUND ON THE DRAWINGS MUST BE REPORTED TO THE ENGINEER FOR CLARIFICATION BEFORE COMMENCING THE WORK.
3. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND ELEVATIONS AND REPORT TO THE ENGINEER. IF ANY DISCREPANCIES OR OMISSIONS ARE COMMENCED, THE CONTRACTOR ACCEPTS THE RESPONSIBILITY FOR ANY DIMENSIONS, ELEVATIONS, AND SITE CONDITIONS.
4. THE POSITIONS OF POLE LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES ARE LOCATIONS SHOWN ON THIS DRAWING. THE CONTRACTOR ACCEPTS THE RESPONSIBILITY FOR THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE AND LOCATION OF SUCH UTILITIES AND STRUCTURES AND ASSUME ALL LIABILITY FOR DAMAGE TO THEM.
5. ACCESS TO EXISTING LAGOON DISCHARGE LOCATION IS TO MAINTAINED AT ALL TIMES FOR CONTINUING MUNICIPAL OPERATIONS.

PERMIT OF PRACTICE
EXP SERVICES INC.

Signature Eino Bell

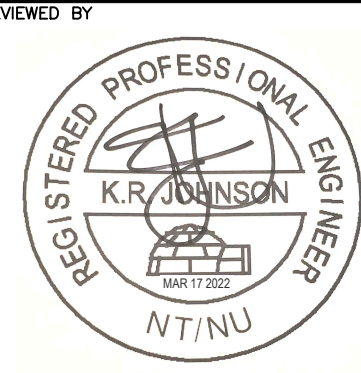
Date Mar 17 2022

PERMIT NUMBER: P483
NT/NU Association of Professional
Engineers and Geoscientists

4	ISSUED FOR TENDER SUBMISSION	22/03/09	CK	KJ
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2	75% DESIGN SUBMISSION	21/11/26	CK	KJ
1	PRELIMINARY	21/09/27	IB	KJ
REV	REVISION DESCRIPTION	DATE	BY	APPD



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Ottawa, ON K2B 8H5
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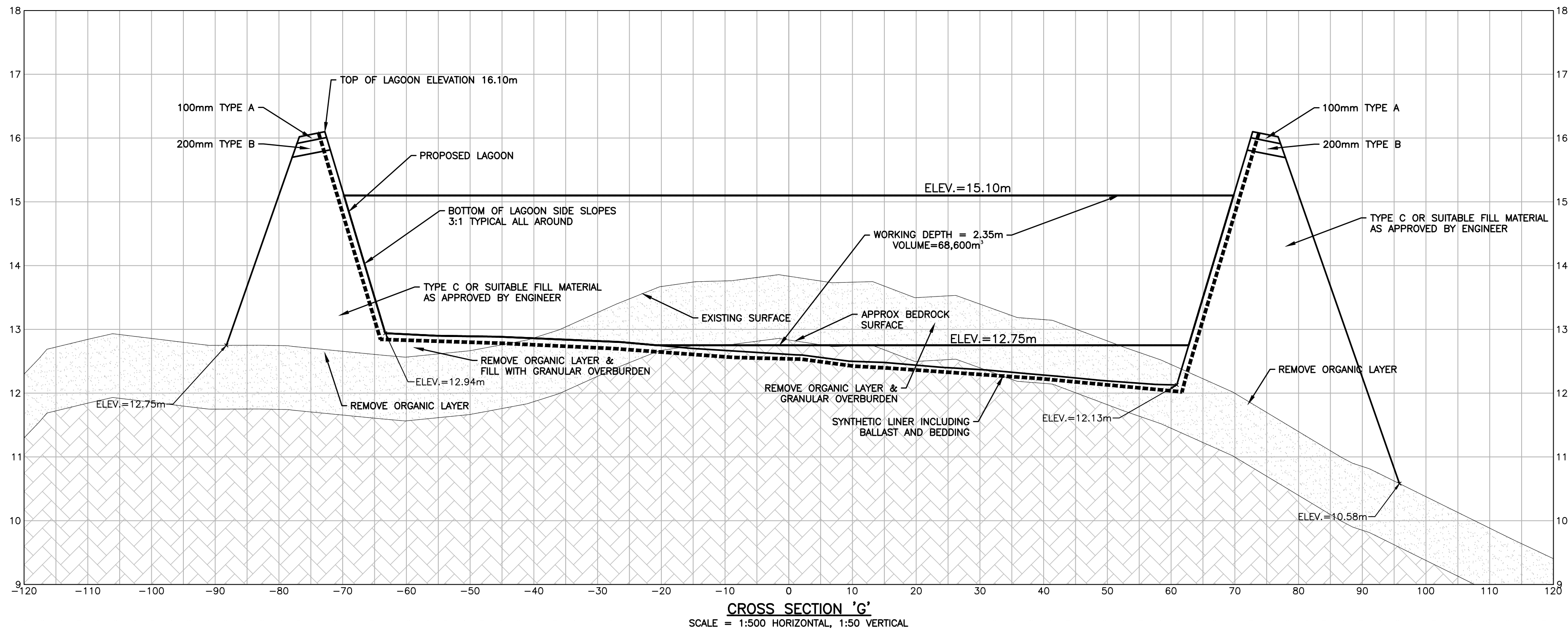
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BASEPLAN	S.BUTLER
DESIGN	C.KEUNG
CHECKED	K.JOHNSON
CAD	I.BILLIALD
PROJECT MANAGER	K.JOHNSON
APPROVED	---

PROJECT	TALOYOAK WASTEWATER TREATMENT TALOYOAK, NUNAVUT
TITLE	CROSS SECTIONS

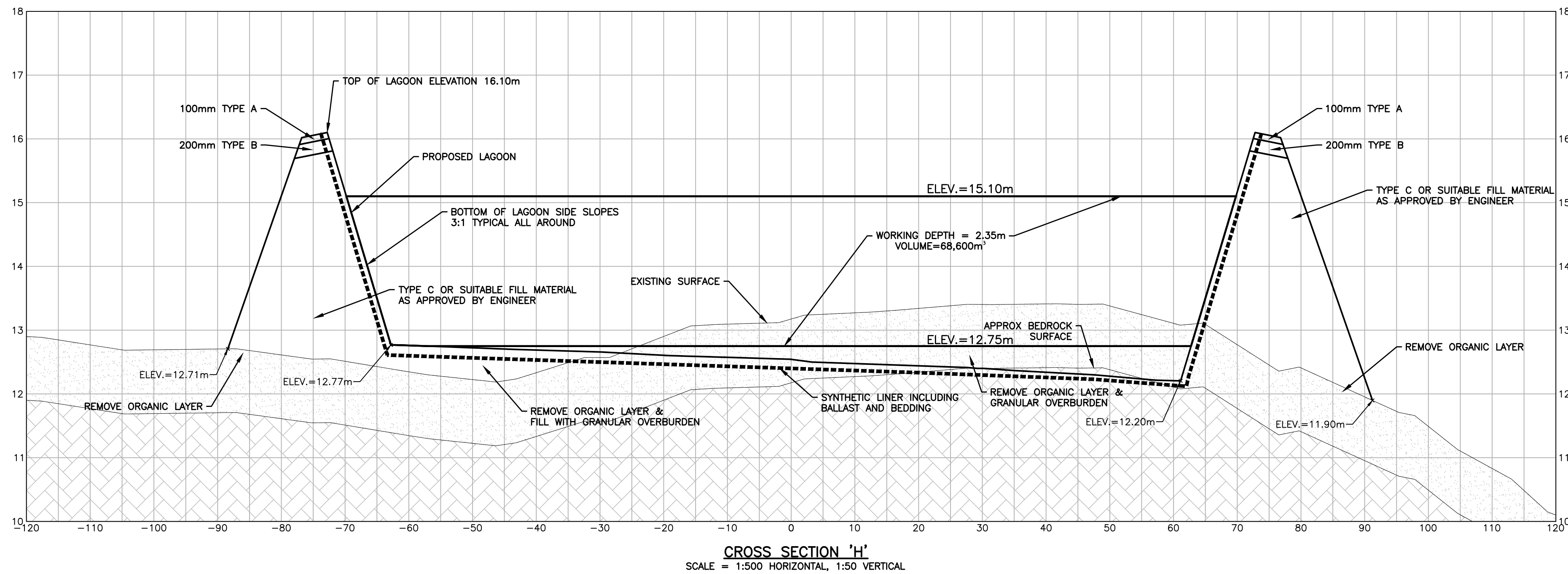
PROJECT No.
RN-21016570-A0
SURVEY 
DATE

DRAWING No.
DET-2



- GENERAL NOTES
1. THE SUBBASE SHALL BE UNIFORM AND FREE OF SHARP ROCK FRAGMENTS OR STONES, LARGE STONES AND OTHER DELETERIOUS MATTER SUCH AS CONSTRUCTION DEBRIS AND METALLIC OBJECTS. THE SURFACE SHALL NOT HAVE ANY NATURAL OR FOREIGN OBJECT THAT PROTRUDES ABOVE THE SURFACE OF THE SUBBASE.
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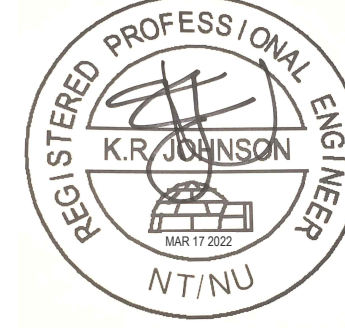
PERMIT OF PRACTICE
EXP SERVICES INC.
Signature *[Signature]*
Date **Mar 17 2022**
PERMIT NUMBER: P483
NT/NU Association of Professional
Engineers and Geoscientists

REV	REVISION DESCRIPTION	DATE	BY	APPD
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1	PRELIMINARY	21/09/27	IB	KJ

SCALE
AS SHOWN
NORTH

DESIGNED BY

REVIEWED BY



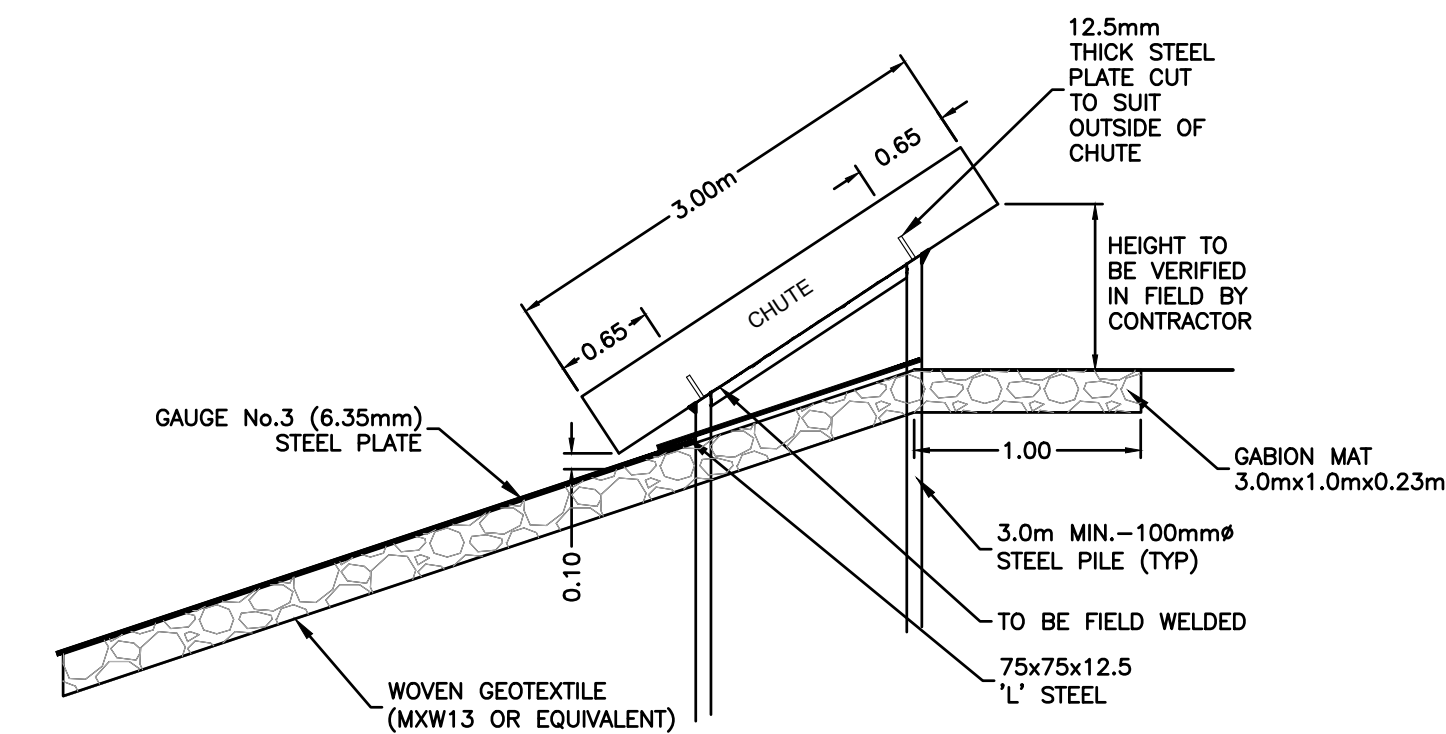
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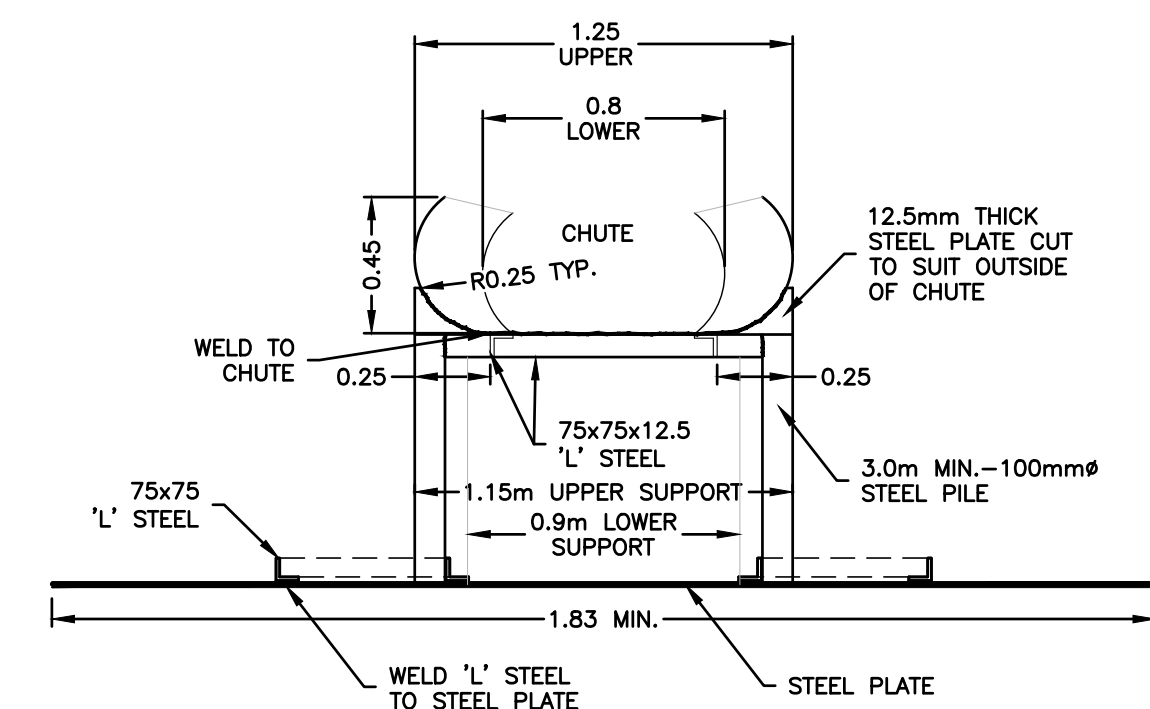
BASEPLAN
DESIGN
CHECKED
CAD
PROJECT MANAGER
APPROVED

PROJECT
S.BUTLER
C.KEUNG
K.JOHNSON
I.BILLIARD
K.JOHNSON
TITLE
TALOYOAK WASTEWATER TREATMENT
TALOYOAK, NUNAVUT
CROSS SECTIONS

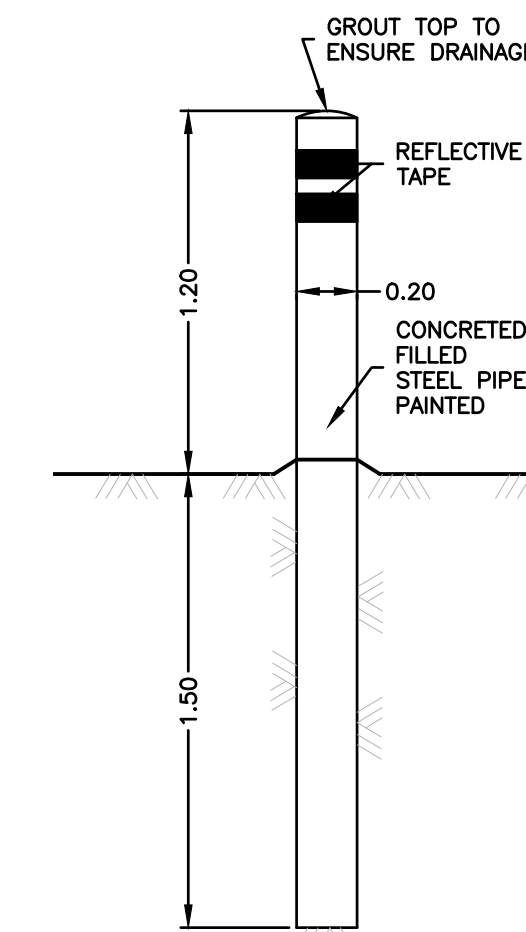
PROJECT No.
FRN-21016570-AG
SURVEY **#exp.**
DATE
DRAWING No.
DET-3



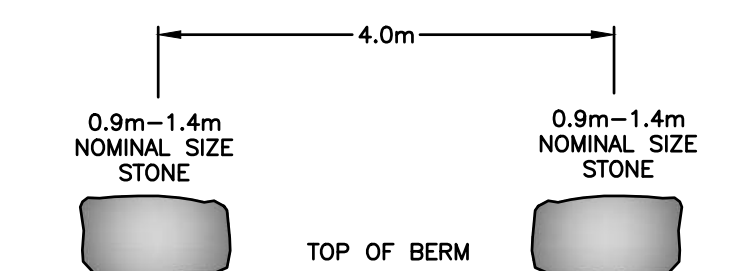
DETAIL "A2"
TRUCK DISCHARGE CHUTE SECTION B-B VIEW
1:50



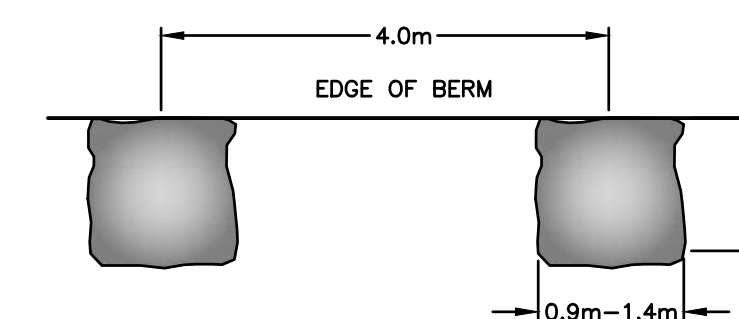
DETAIL "A3"
TRUCK DISCHARGE CHUTE SECTION A-A VIEW
1:25



DETAIL "A4"
BOLLARD DETAIL
1:25



DETAIL "A5"
STONE BARRIER DETAIL SECTION VIEW
N.T.S.



DETAIL "A6"
STONE BARRIER DETAIL PLAN VIEW
N.T.S.

NOTES

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NOTES

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5. ANY DAMAGE EXISTING NOT NECESSARILY SHOWN ON THE DRAWING, MUST BE REPAIRED AT THE CONTRACTOR'S OWN COSTS.

PERMIT OF PRACTICE
EXP SERVICES INC.
Signature Eric Bell
Date Mar 17 2022


PERMIT NUMBER: P483
NT/NU Association of Professional
Engineers and Geoscientists

4	ISSUED FOR TENDER SUBMISSION	22/03/09	CK	KJ
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REV	REVISION DESCRIPTION	DATE	BY	APPROVED

SCALE

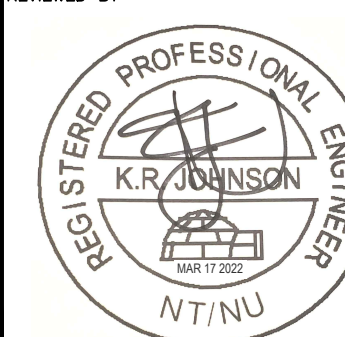
AS SHOWN

NORTH



DESIGNED BY

REVIEWED BY



GOVERNMENT OF NUNAVUT
COMMUNITY AND GOVERNMENT SERVICES
CAMBRIDGE BAY, NUNAVUT




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t: +1 613 688 1899 | f: +1 613 225 7330
2650 Queensview Drive, Unit 100
Ottawa, ON K2B 8H6
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• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY

BASEPLAN	S.BUTLER
DESIGN	C.KEUNG
CHECKED	K.JOHNSON
CAD	I.BILLIARD
PROJECT MANAGER	K.JOHNSON
APPROVED	---

PROJECT
TALOYOAK WASTEWATER TREATMENT
TALOYOAK, NUNAVUT

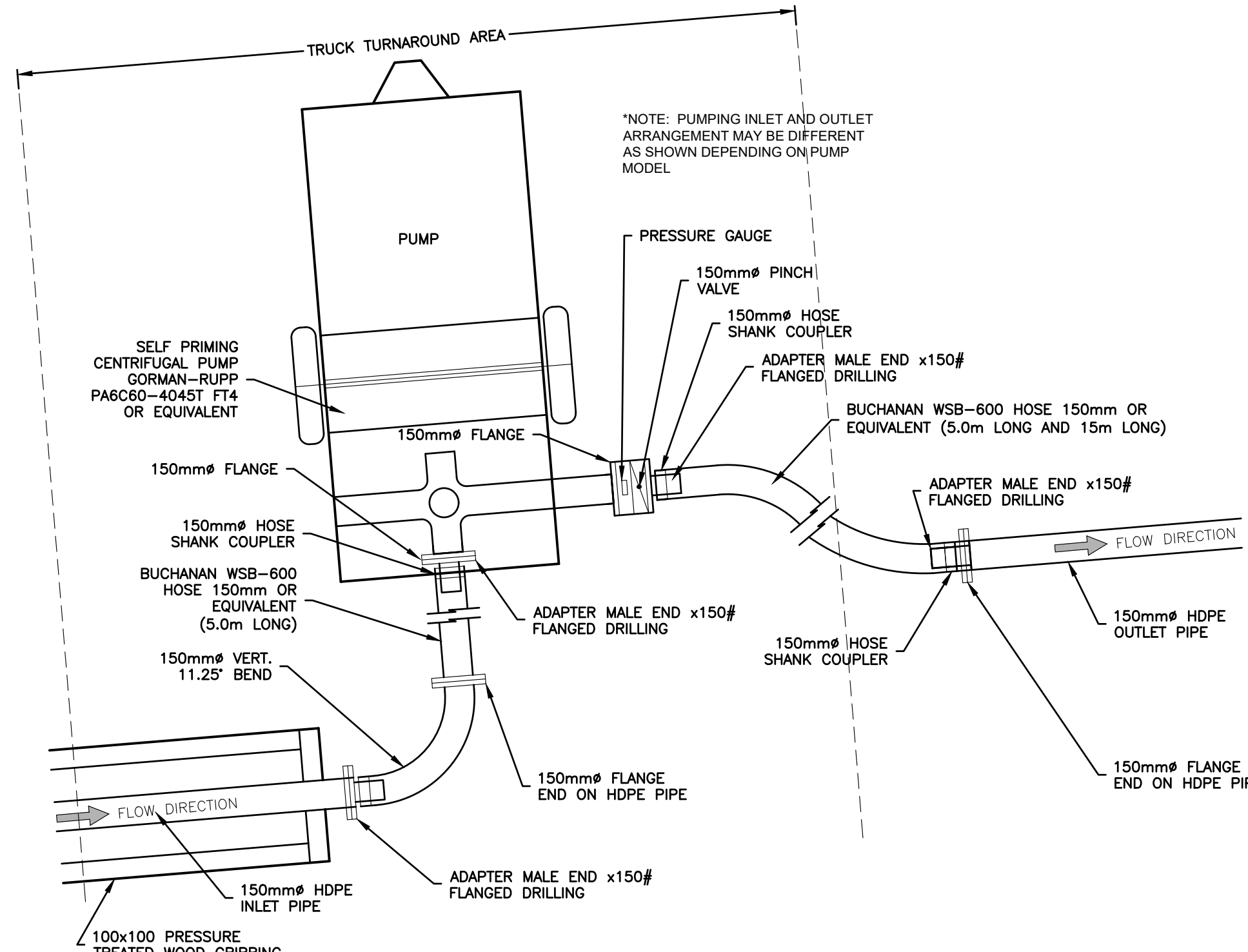
TRUCK DISCHARGE DETAILS

PROJECT No.
FRN-21016570-AO
SURVEY  exp.

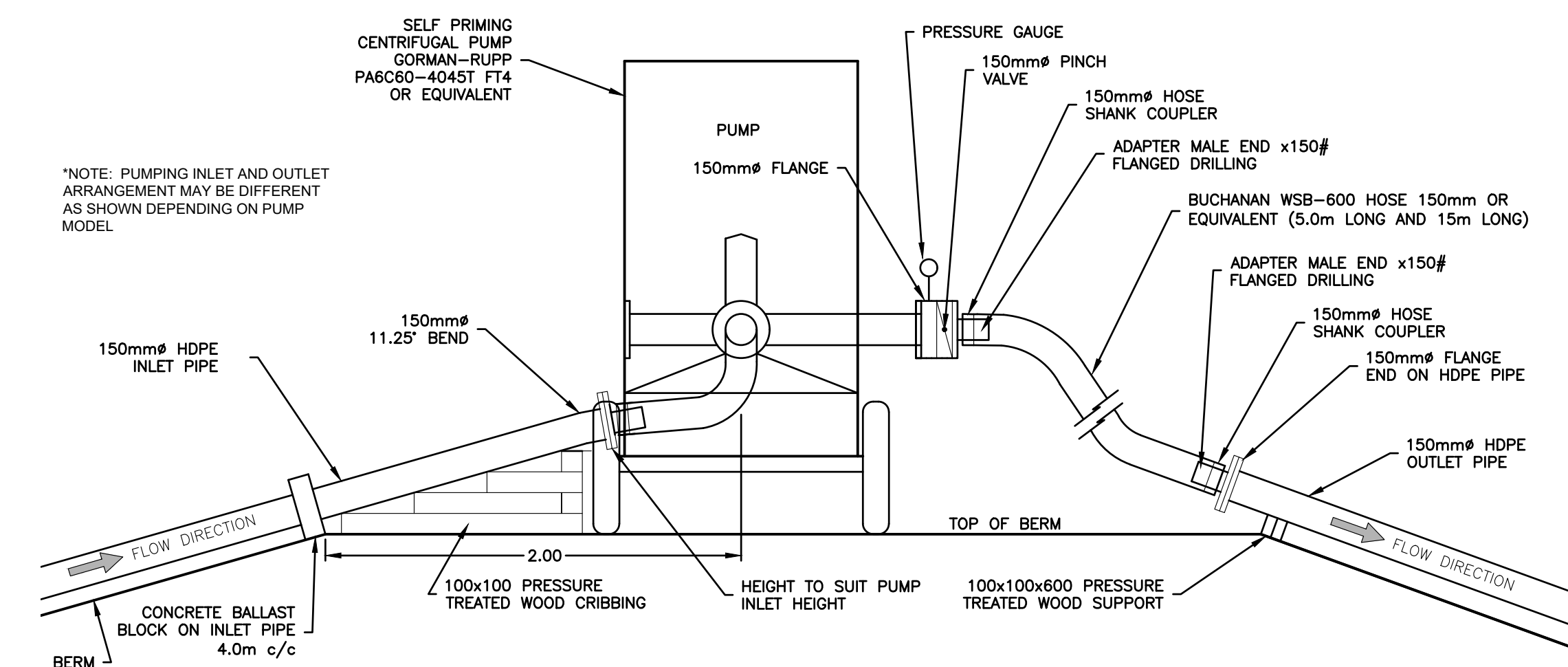
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DRAWING No.

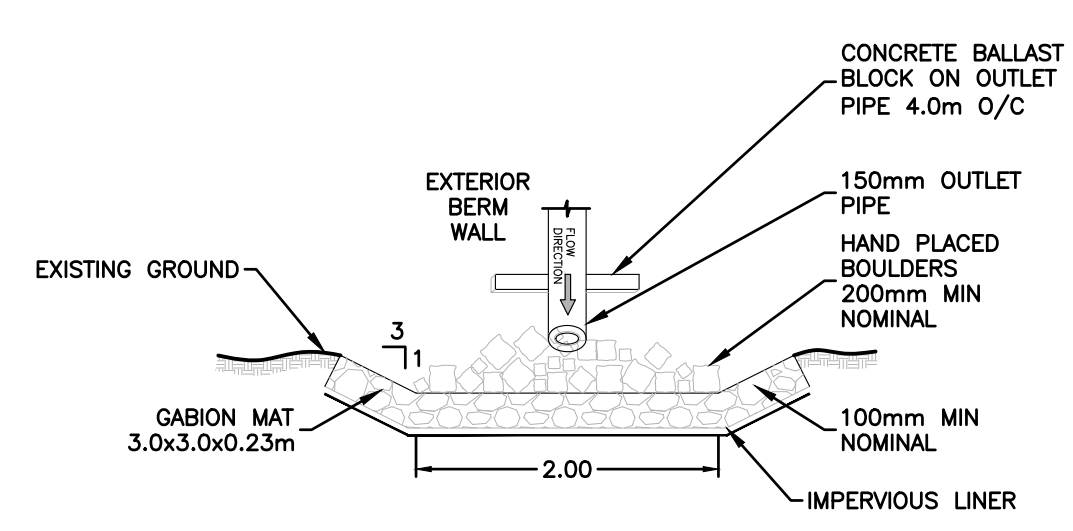
DET-4



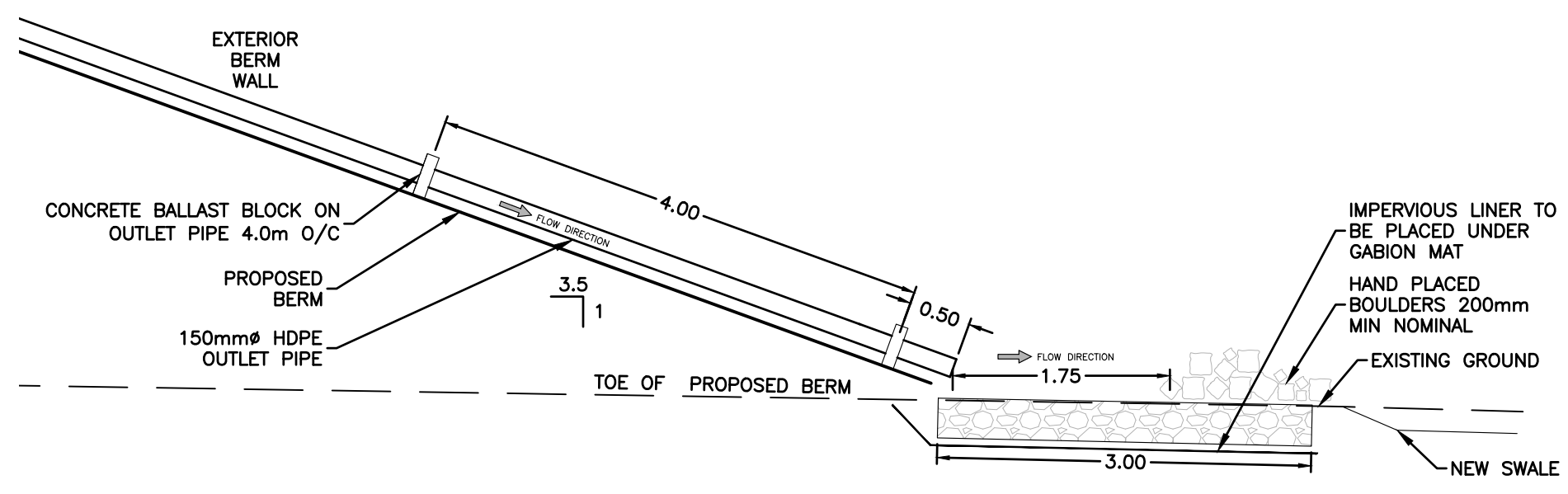
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LAGOON DEWATERING PUMP INFRASTRUCTURE PLAN VIEW
1:25



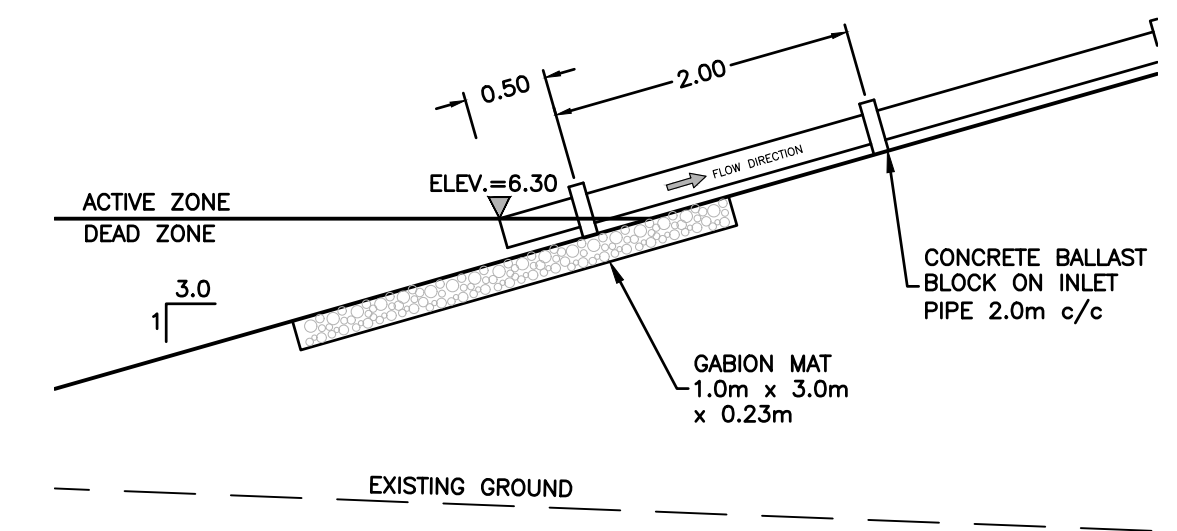
DETAIL "B2"
LAGOON DEWATERING PUMP INFRASTRUCTURE
1:25



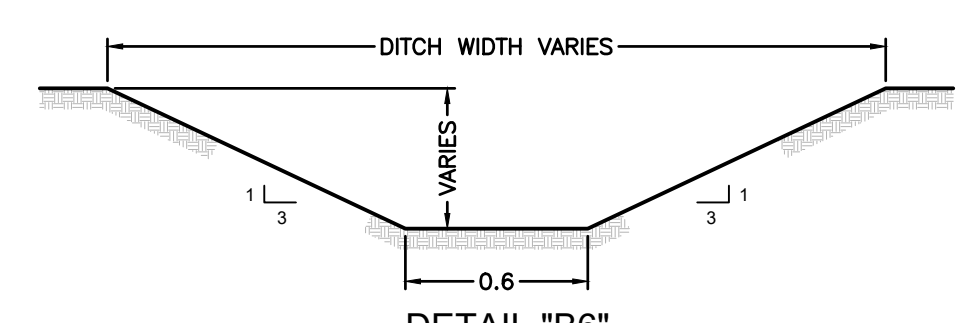
DETAIL "B3"
LAGOON DEWATERING OUTLET ELEVATION VIEW
1:50



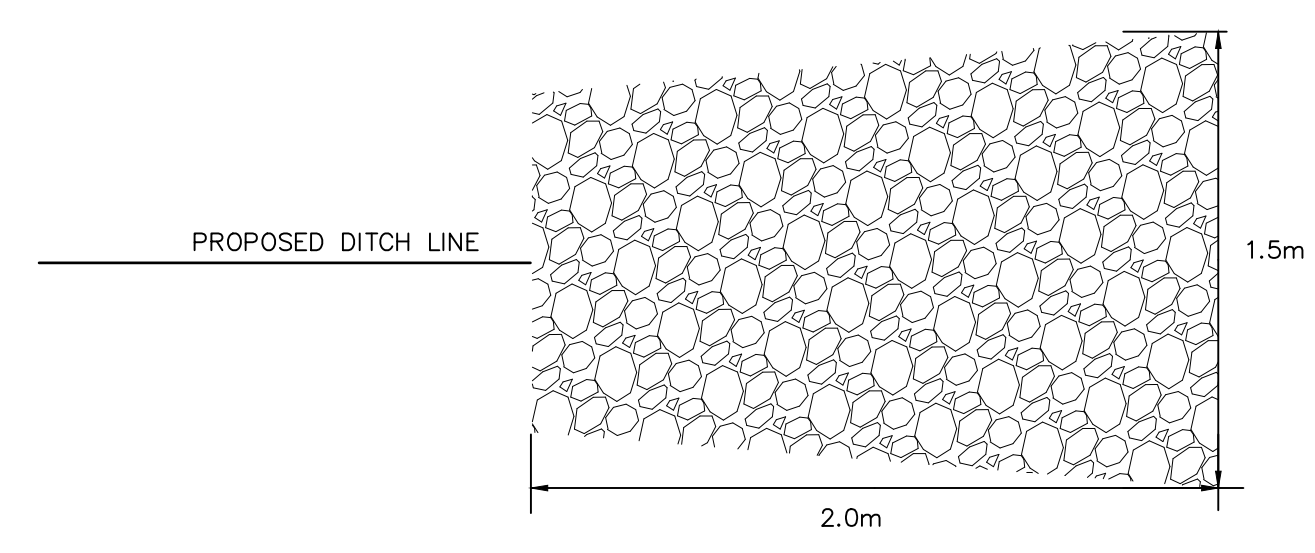
DETAIL "B4"
LAGOON DEWATERING OUTLET SECTION VIEW
1:50



DETAIL "B5"
LAGOON DEWATERING INLET
1:50



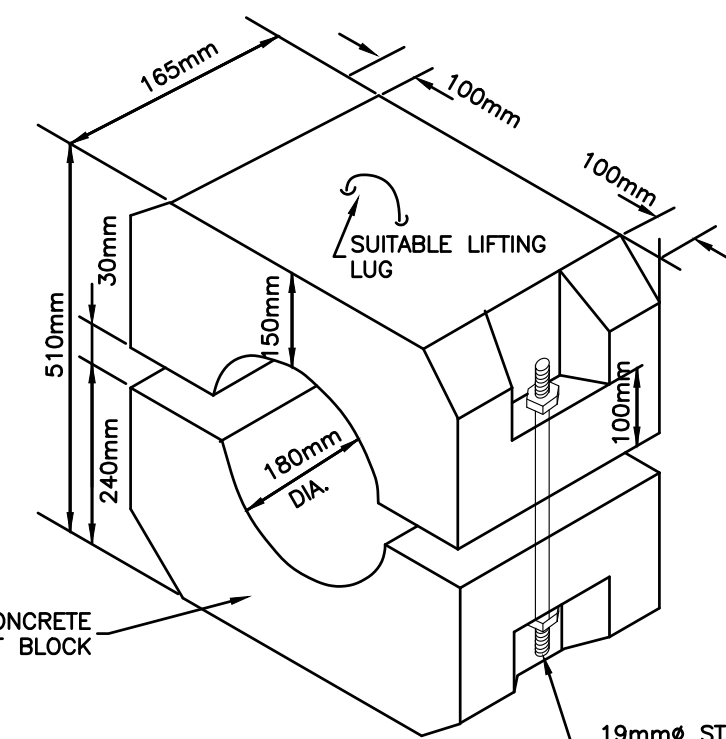
DETAIL "B6"
DITCH DETAIL
N.T.S.



PLAN

1. RIP RAP THICKNESS TO BE 300mm
2. RIP RAP TO BE HAND PLACED.
3. NOMINAL SIZE OR RIP RAP TO BE 0.5 THICKNESS.
4. FILTER CLOTH TO BE INSTALL UNDER ENTIRE RIP RAP APRON.

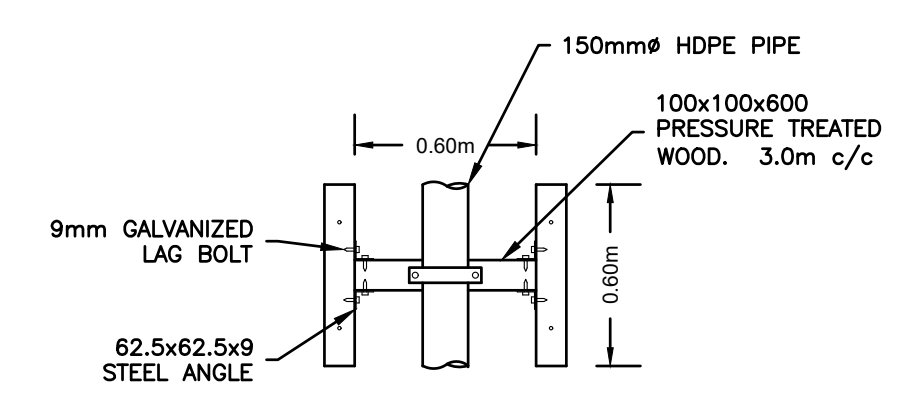
DETAIL "B9"
RIP RAP TREATMENT ON DITCH OUTLET
N.T.S.



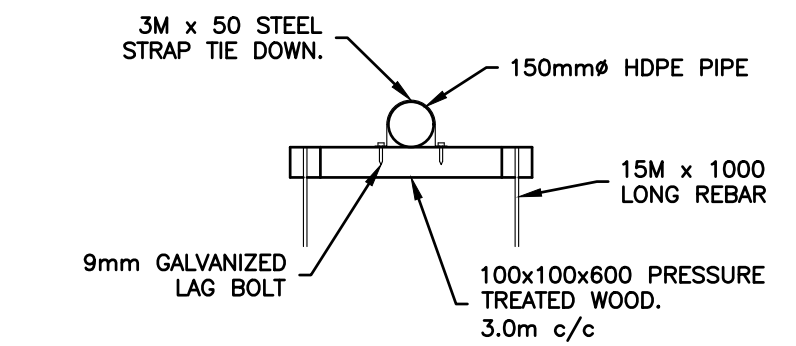
DETAIL "B7"
CONCRETE BALLAST BLOCK
N.T.S

NOTES:

1. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR CONCRETE BALLAST BLOCKS C/W REINFORCING.
2. CONTRACTOR TO USE 6.25mm THICK NEOPRENE SPONGE PADDING BETWEEN PIPE AND BLOCKS TO PREVENT CONTACT. WIDTH TO BE 180mm.



PLAN VIEW



SECTION VIEW

DETAIL "B8"
OUTLET PIPE SUPPORT
1:25

NOTES

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5. ACCESS TO EXISTING LAGOON DISCHARGE LOCATION IS TO MAINTAINED AT ALL TIMES FOR CONTINUING MUNICIPAL OPERATIONS.

PERMIT OF PRACTICE
EXP SERVICES INC.

Signature: *[Signature]*

Date: Mar 17 2022

PERMIT NUMBER: P483
NT/NU Association of Professional Engineers and Geoscientists

REV	REVISION DESCRIPTION	DATE	BY	APPD
4	ISSUED FOR TENDER SUBMISSION	22/03/09	CK	KJ
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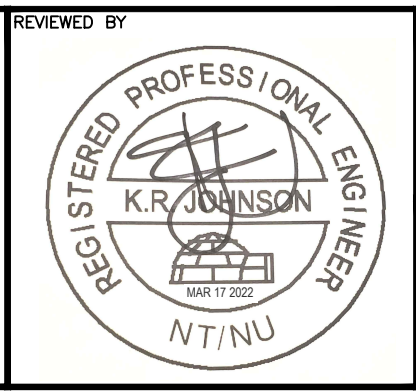
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BASE PLAN

S.BUTLER

DESIGN

C.KEUNG

CHECKED

K.JOHNSON

CAD

I.BILLIARD

PROJECT MANAGER

K.JOHNSON

APPROVED

PROJECT

TALOYOAK WASTEWATER TREATMENT

TALOYOAK, NUNAVUT

PUMPING AND DEWATERING DETAILS

PROJECT No.

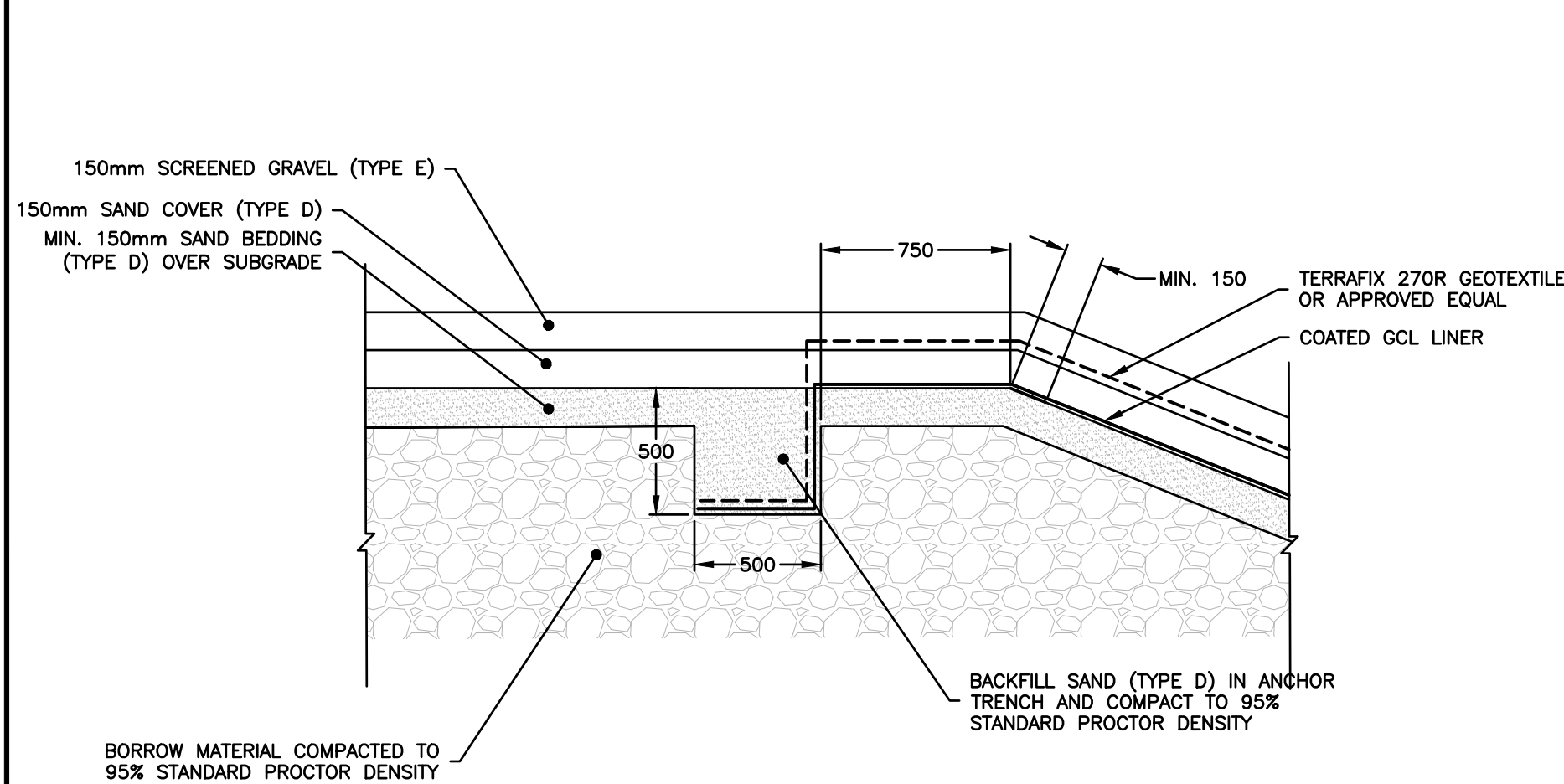
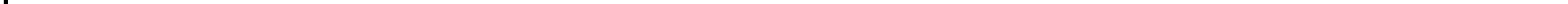
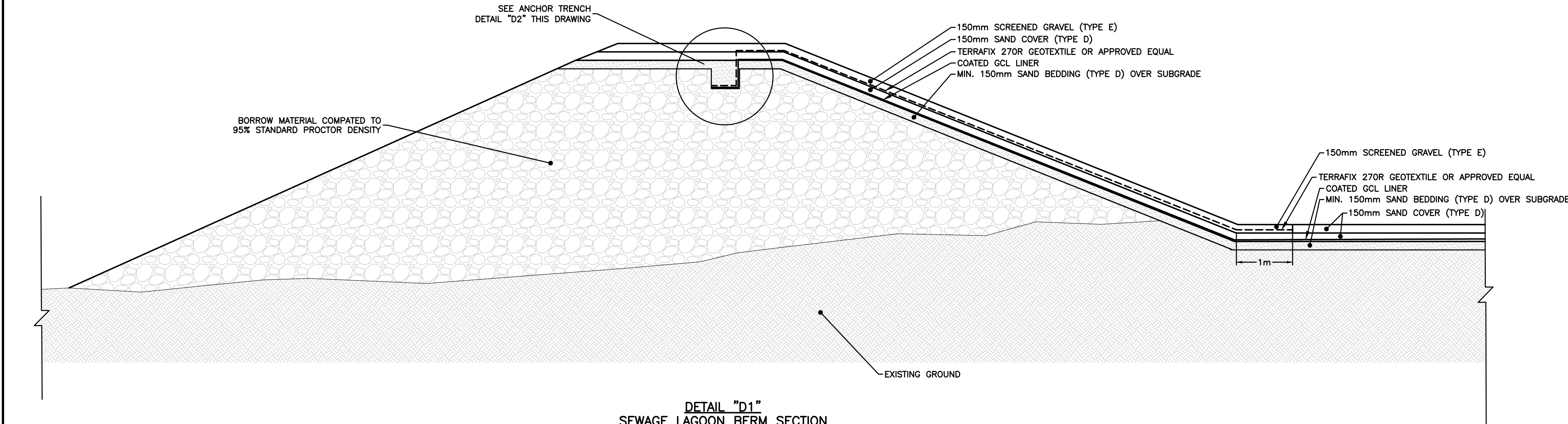
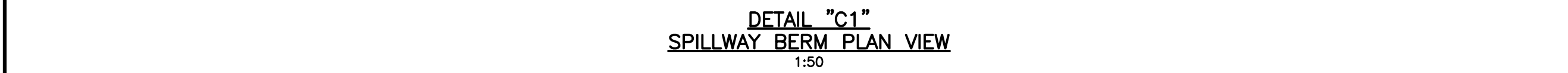
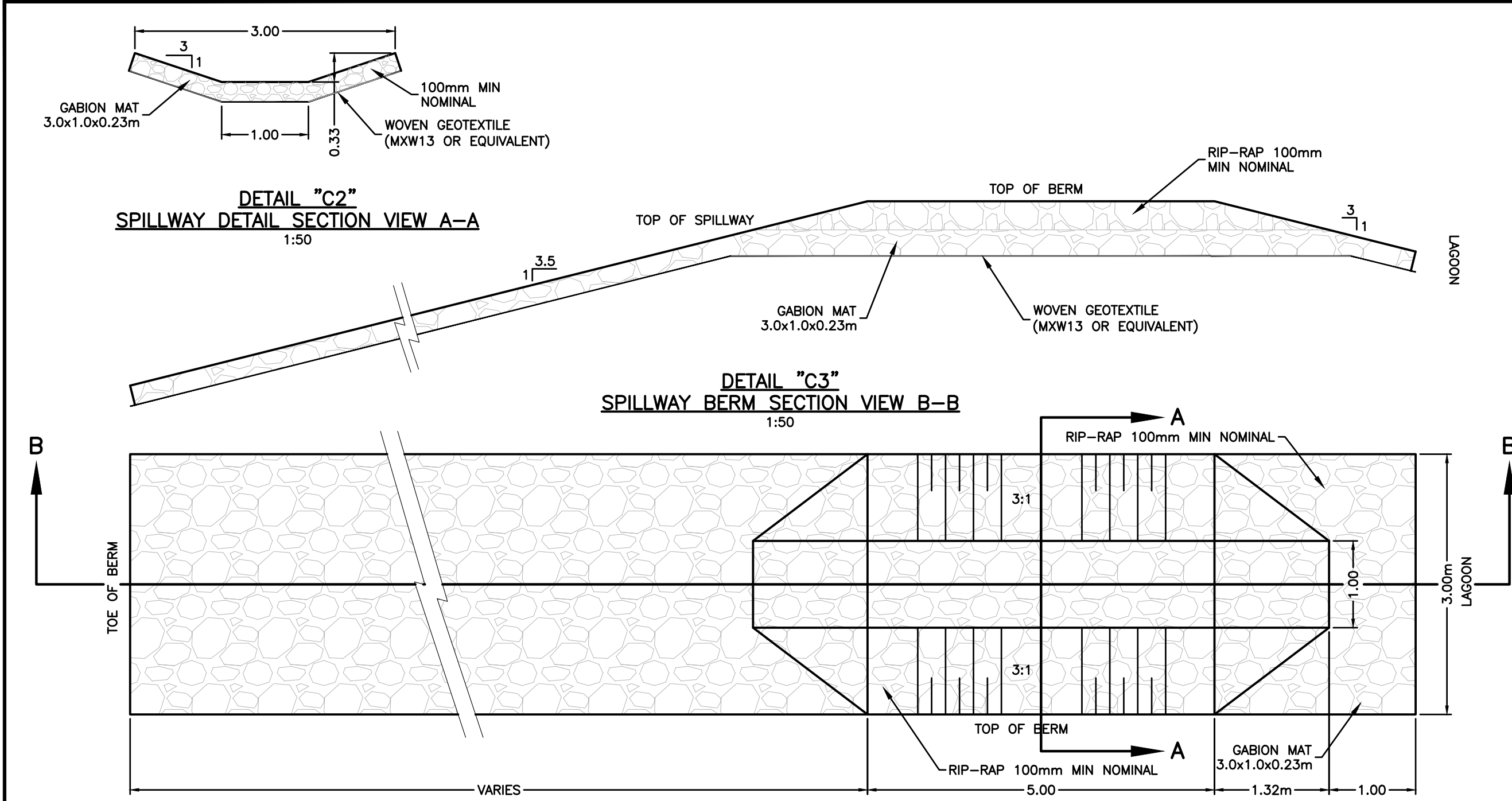
FRN-21016570-AG

SURVEY

DATE

DRAWING No.

DET-5



NOTES

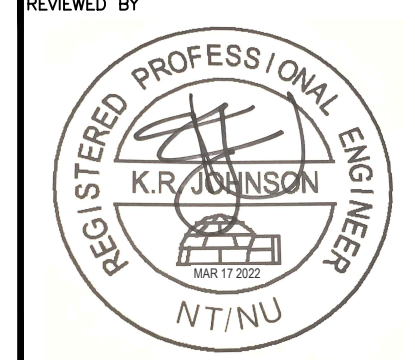
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PERMIT OF PRACTICE
EXP SERVICES INC.
Signature: *[Signature]*
Date: Mar 17 2022
PERMIT NUMBER: P483
NT/NU Association of Professional
Engineers and Geoscientists

REV	REVISION DESCRIPTION	DATE	BY	APPD
4	ISSUED FOR TENDER SUBMISSION	22/03/09	CK	KJ
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1	PRELIMINARY	21/09/27	IB	KJ

SCALE	AS SHOWN
NORTH	

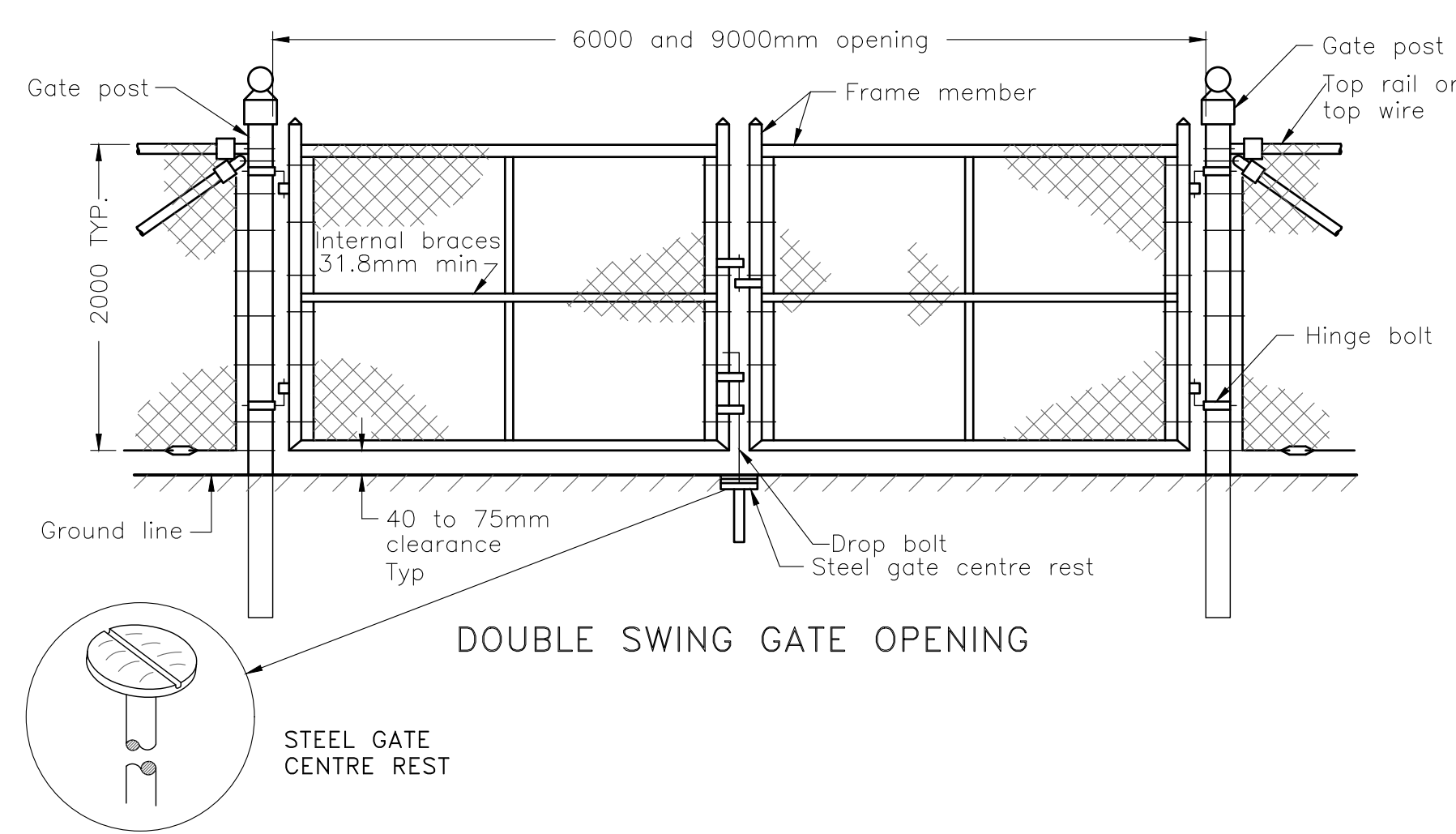
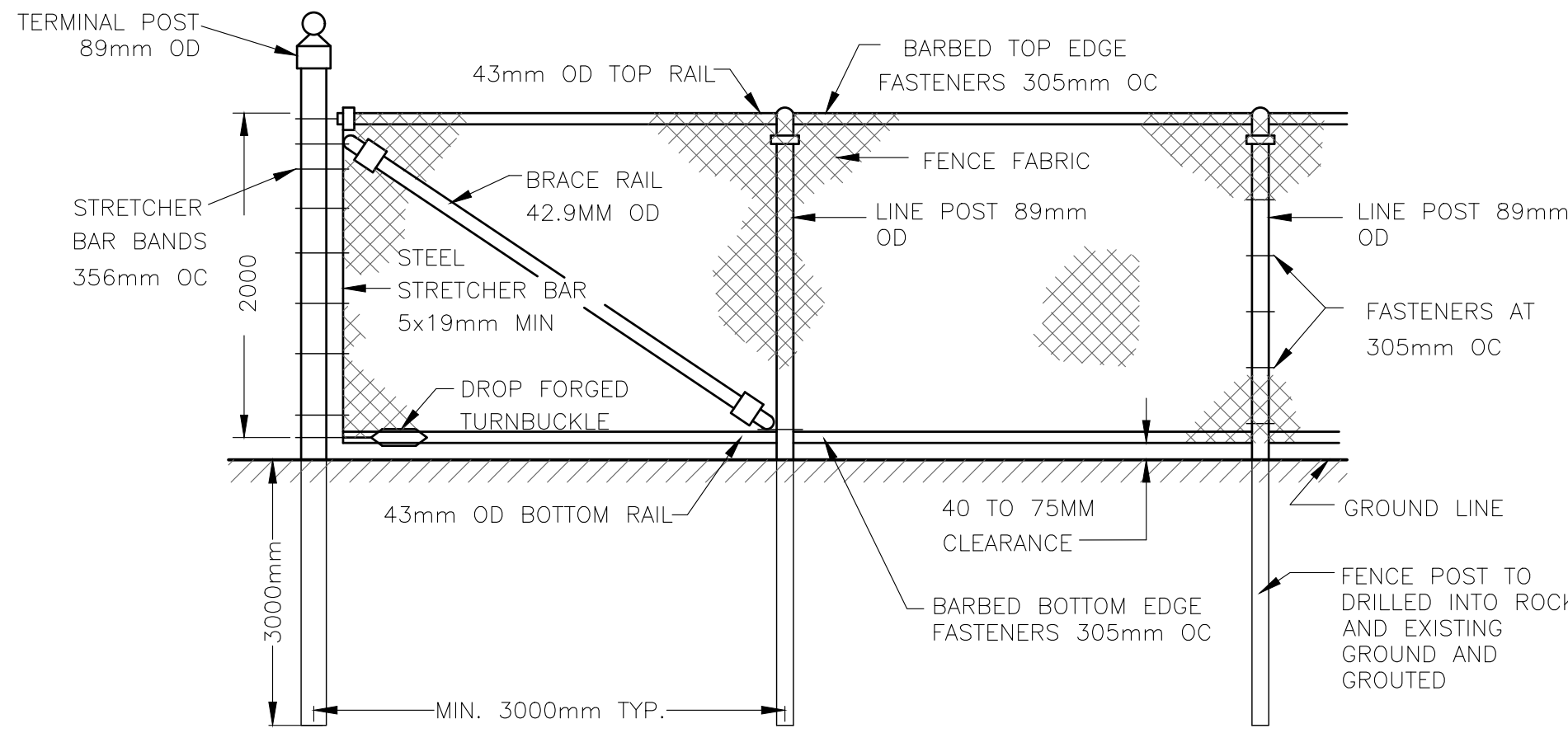
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BASE PLAN	PROJECT
S.BUTLER	TALOYOAK WASTEWATER TREATMENT
DESIGN	C.KEUNG
CHECKED	K.JOHNSON
CAD	I.BILLIALL
PROJECT MANAGER	K.JOHNSON
TITLE	LINER DETAILS, SPILLWAY DETAILS AND MISC. DETAILS
APPROVED	---

PROJECT No.	DRAWING No.
FRN-21016570-AG SURVEY	DET-6

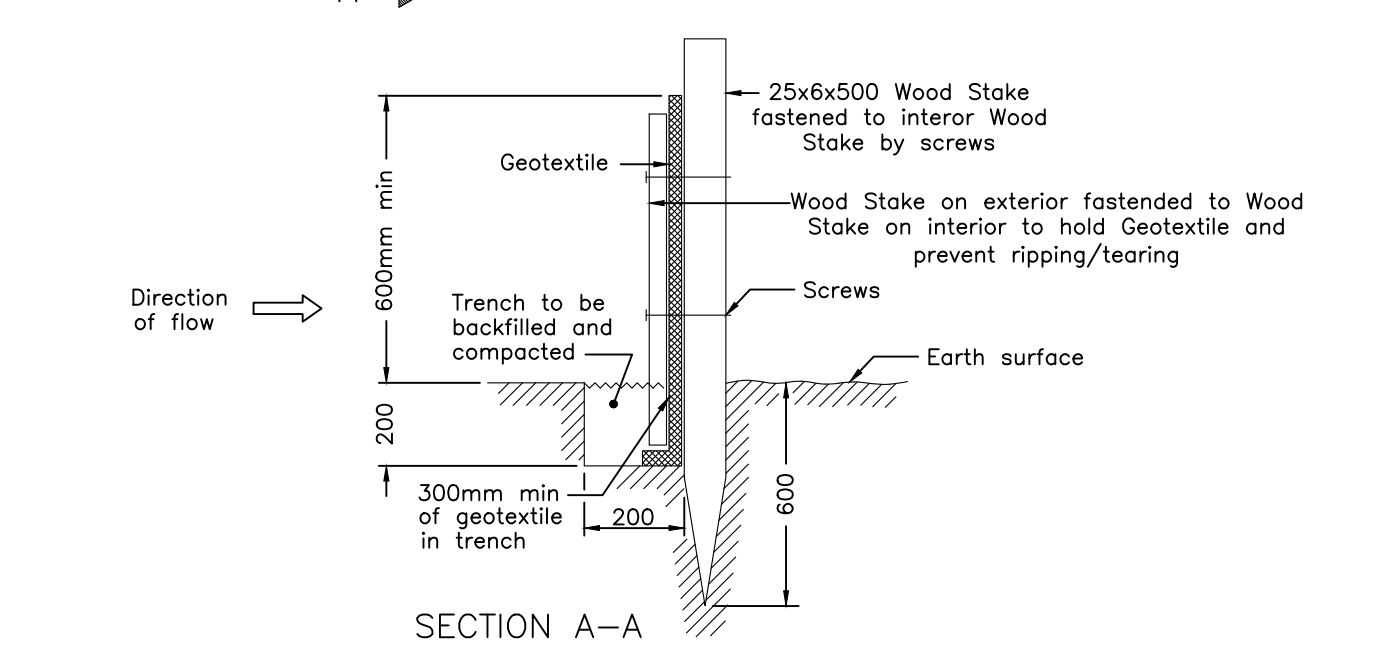
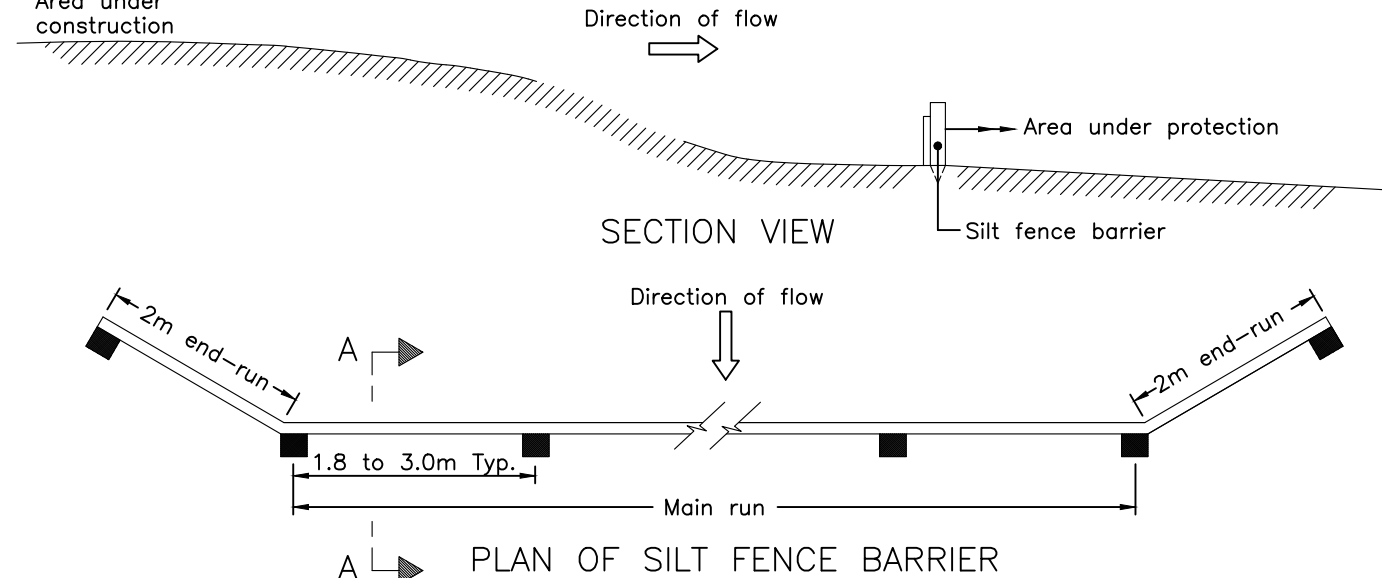
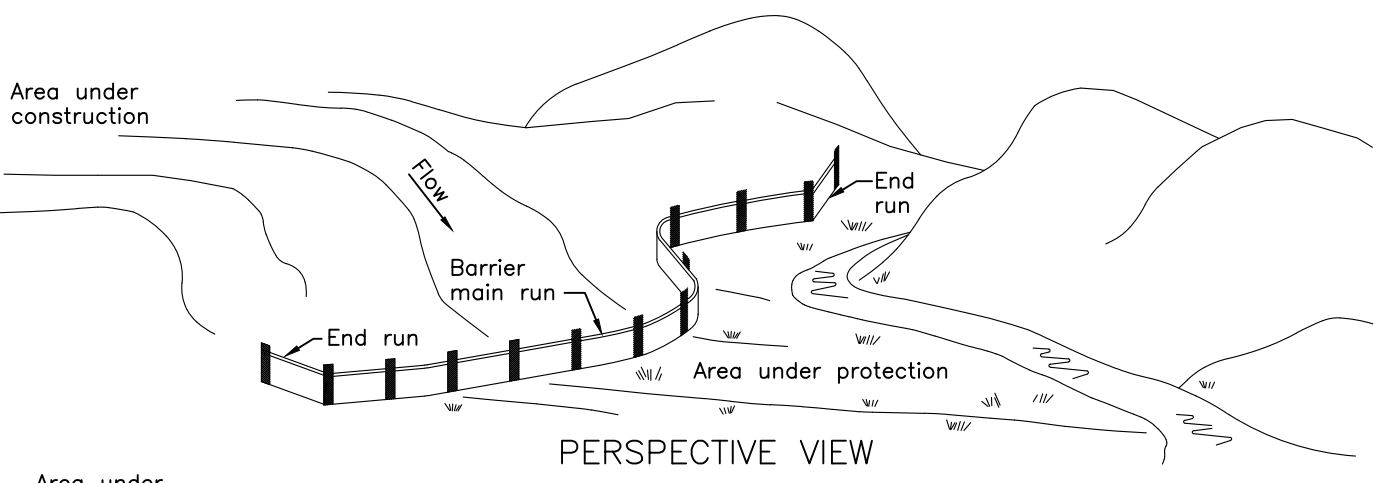
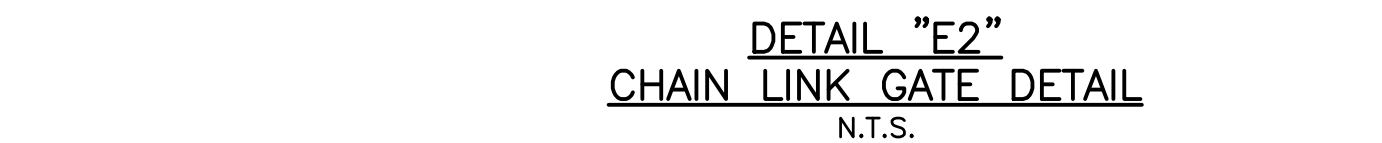


GATE AND GATE POST DETAILS			
Gate type and max opening m	Frame member min OD mm	Post dia min OD mm	Post length standard m
Double swing 6.0	42.9	88.9	2.6
Double swing 9.0	48.3	114.3	2.9

NOTES:

A Gate frames greater than 3.6m in width are supplied with diagonal braces.

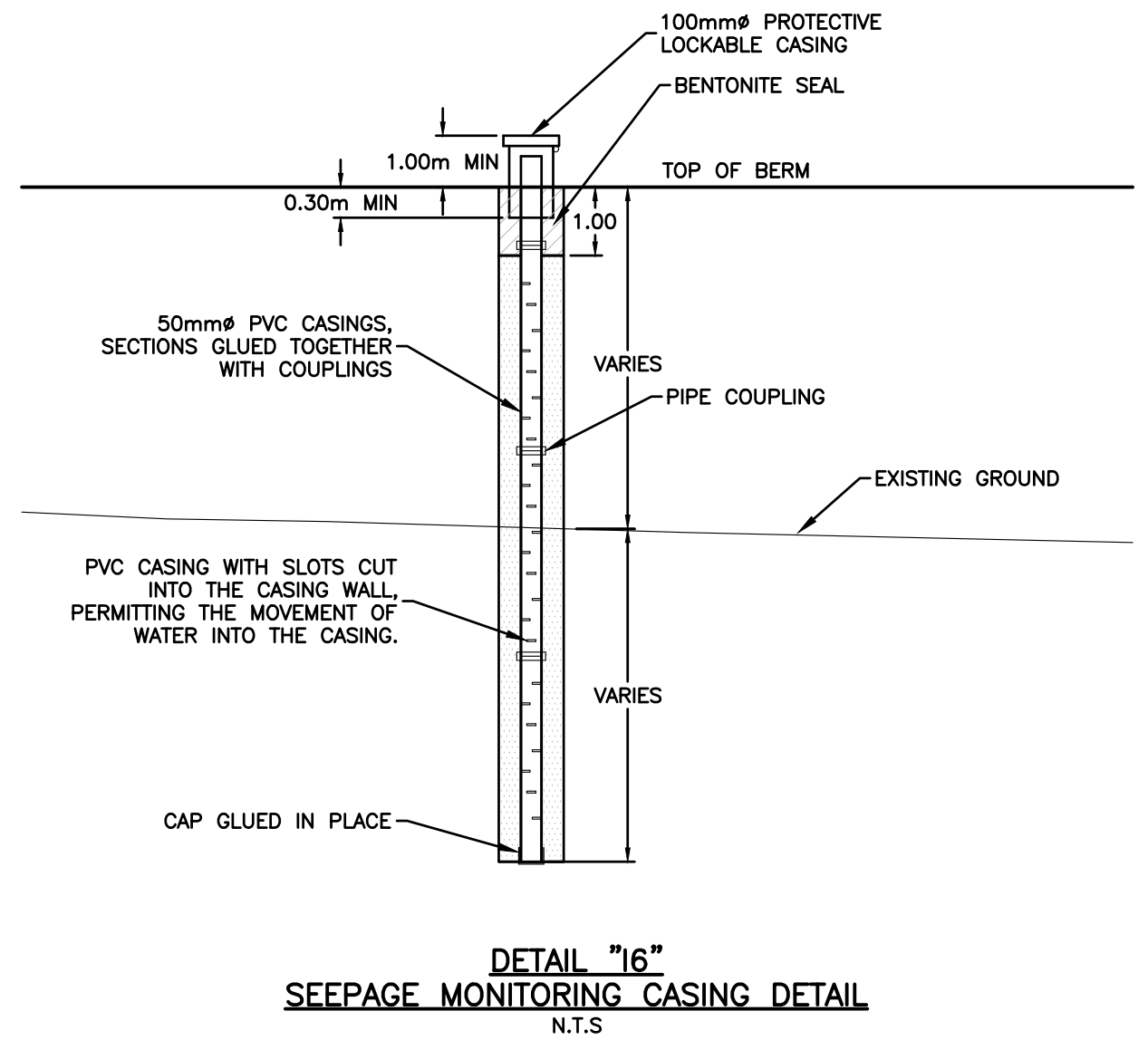
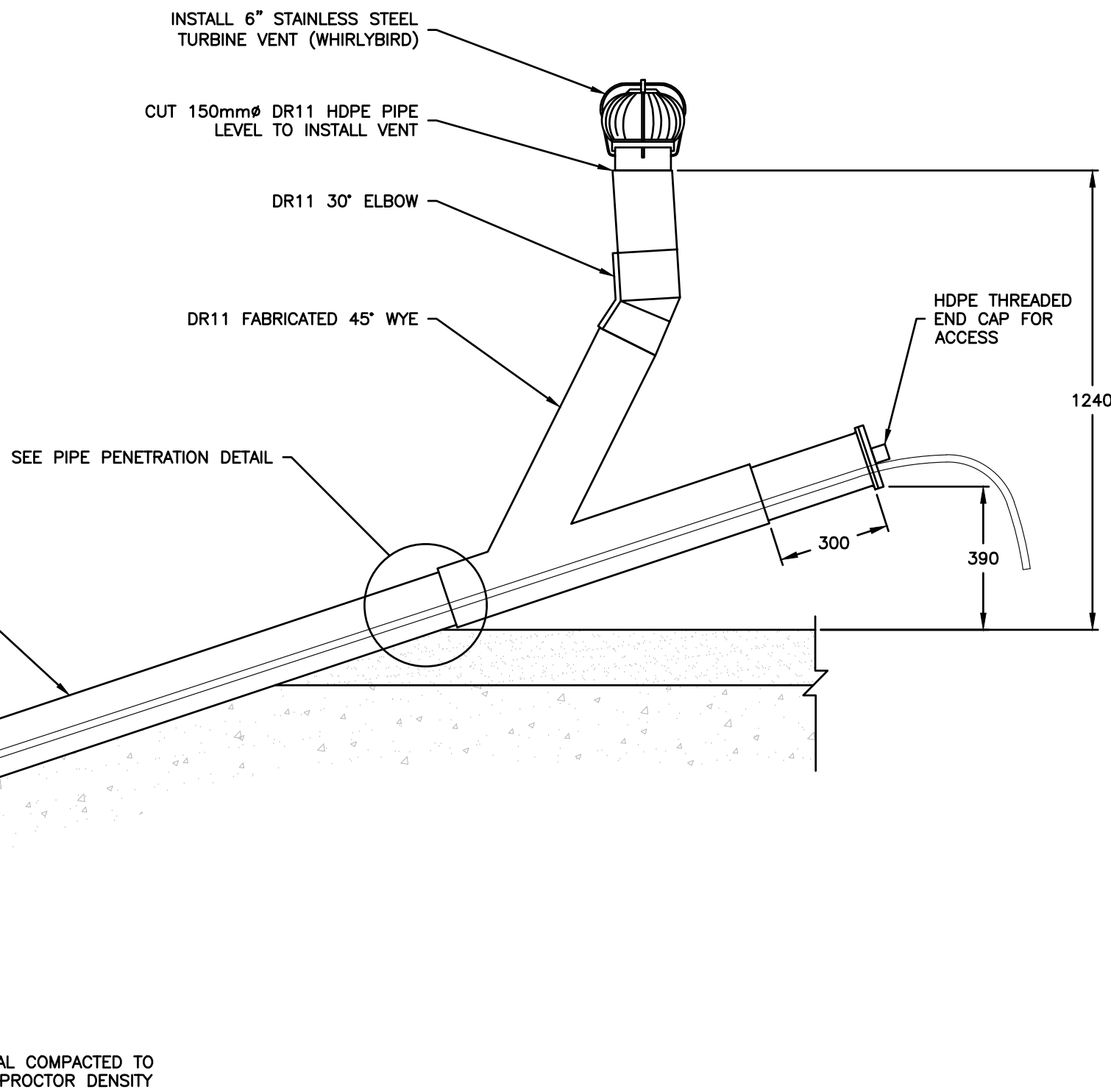
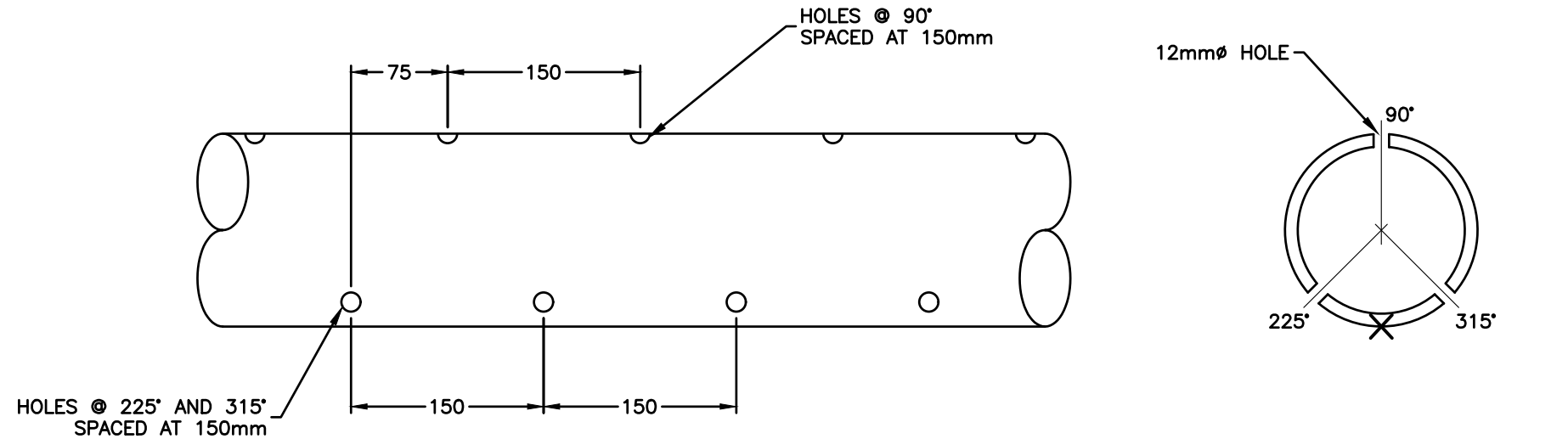
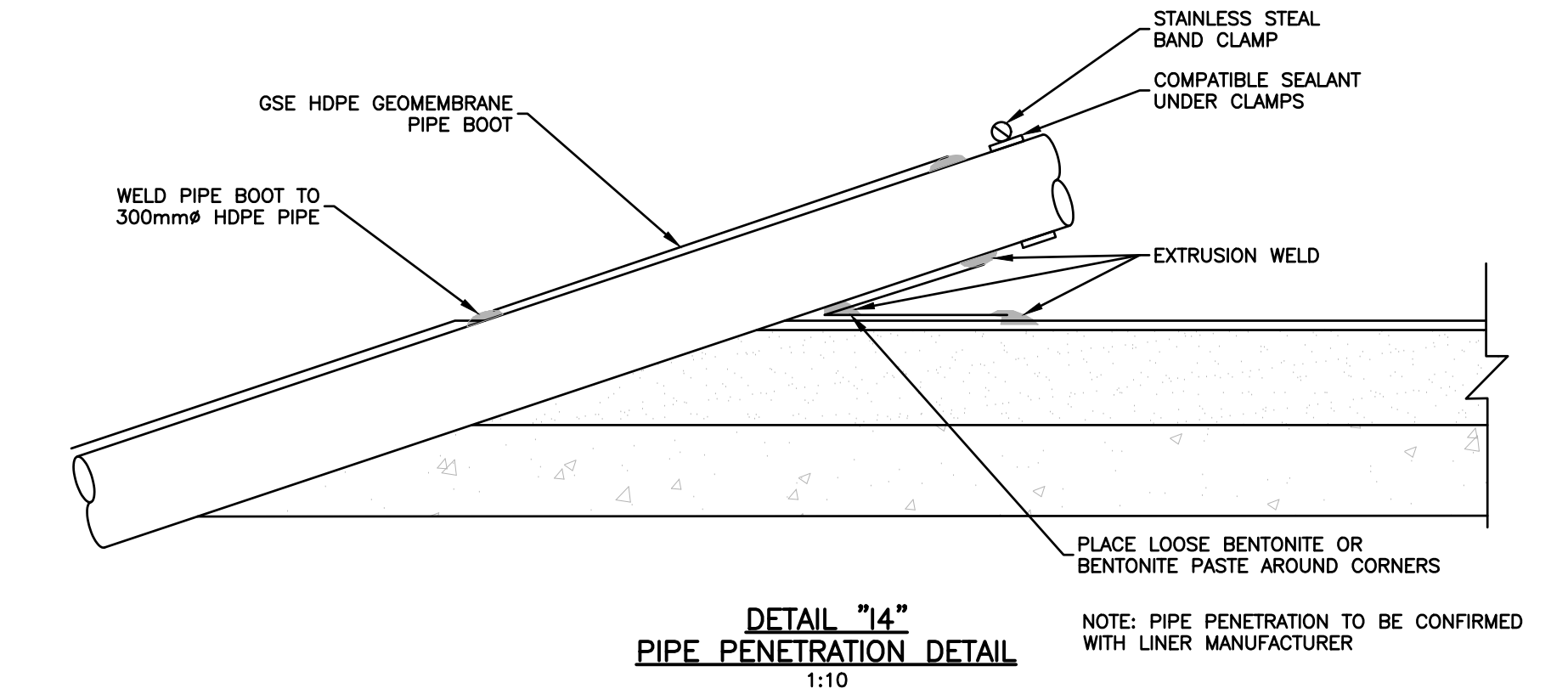
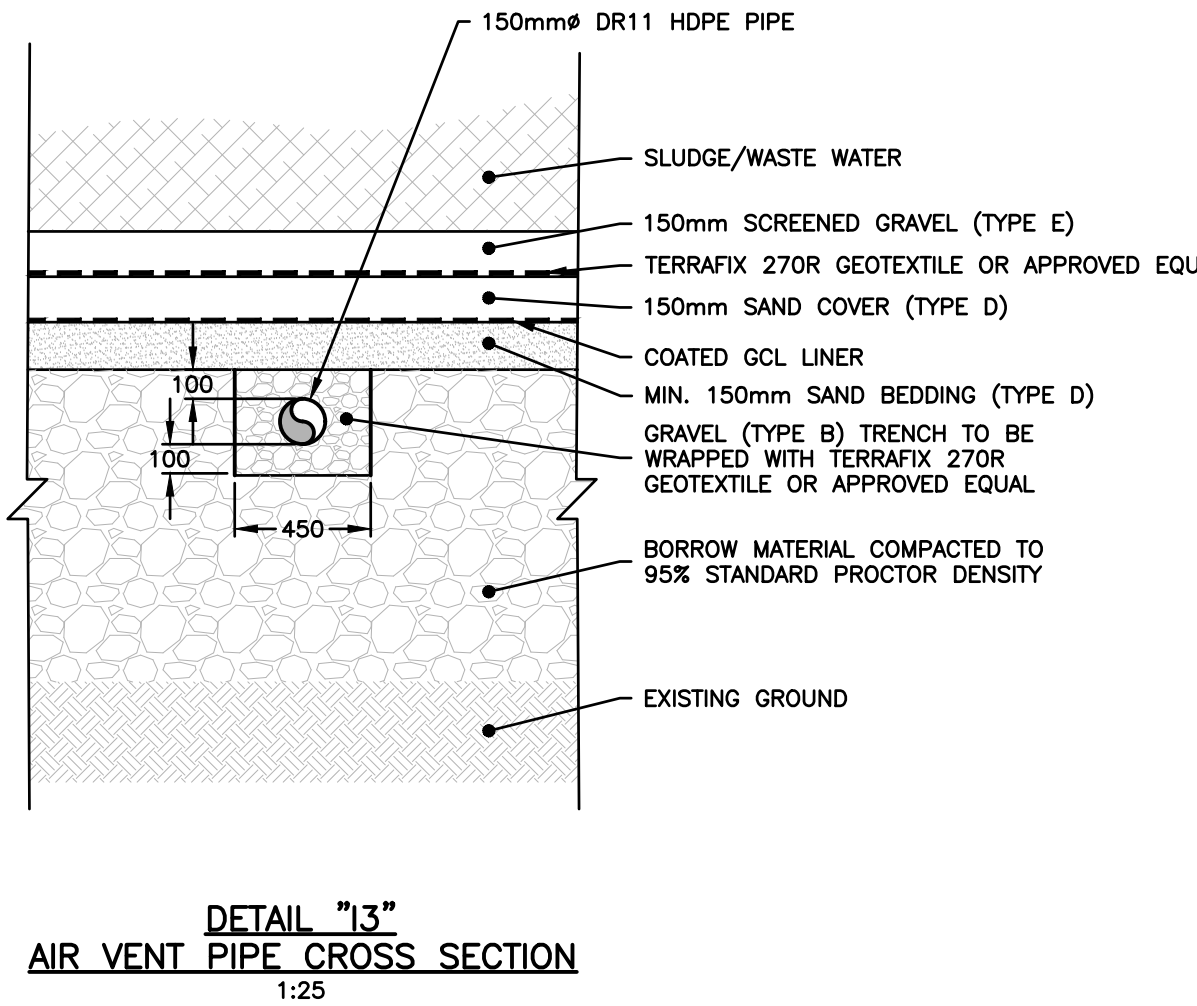
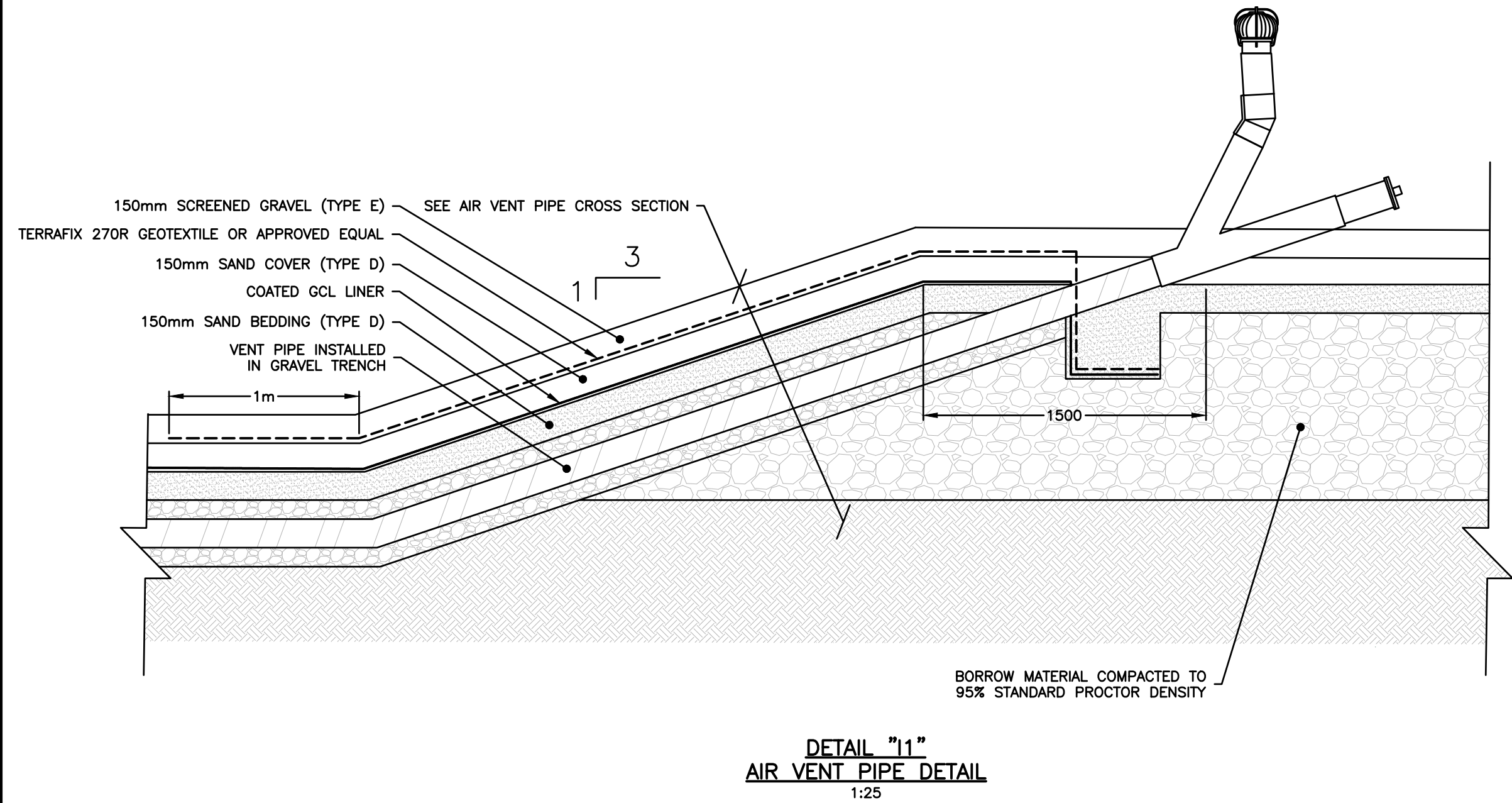
B All dimensions are in millimetres unless otherwise shown.



NOTE:

A All dimensions are in millimetres or metres unless otherwise shown.



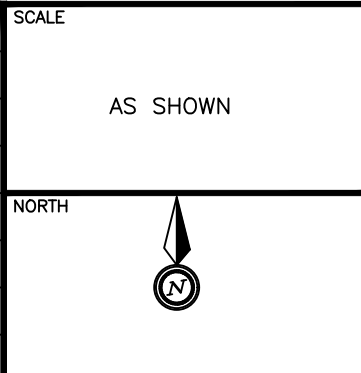


NOTES

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PERMIT OF PRACTICE
EXP SERVICES INC.
Signature *E. Bell*
Date **Mar 17 2022**
PERMIT NUMBER: P483
NT/NU Association of Professional
Engineers and Geoscientists

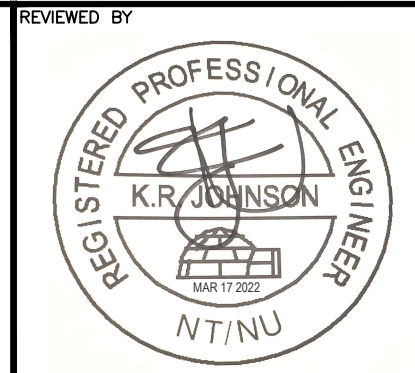
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DESIGNED BY

REVIEWED BY

REGISTERED PROFESSIONAL ENGINEER
K.R. JOHNSON
NT/NU



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DESIGN
CHECKED
CAD
PROJECT MANAGER
APPROVED

S.BUTLER
C.KEUNG
K.JOHNSON
I.BILLIARD
K.JOHNSON

PROJECT

TALOYOAK WASTEWATER TREATMENT
TALOYOAK, NUNAVUT

AIR VENTILATION PIPE DETAILS

PROJECT No.
FRN-21016570-AG
SURVEY **exp**
DATE
DRAWING No.
DET-7



DETAIL "J1"
REMOVAL OF EXISTING DISCHARGE CHUTES
N.T.S.

NOTES

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PERMIT OF PRACTICE
EXP SERVICES INC.

Signature *[Signature]*

Date **Mar 17 2022**

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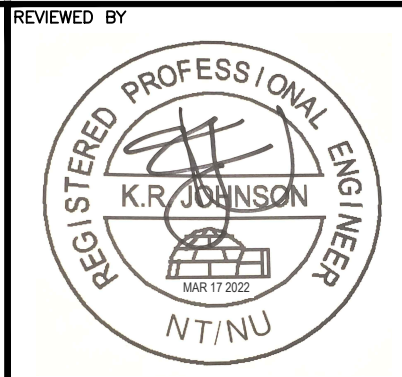
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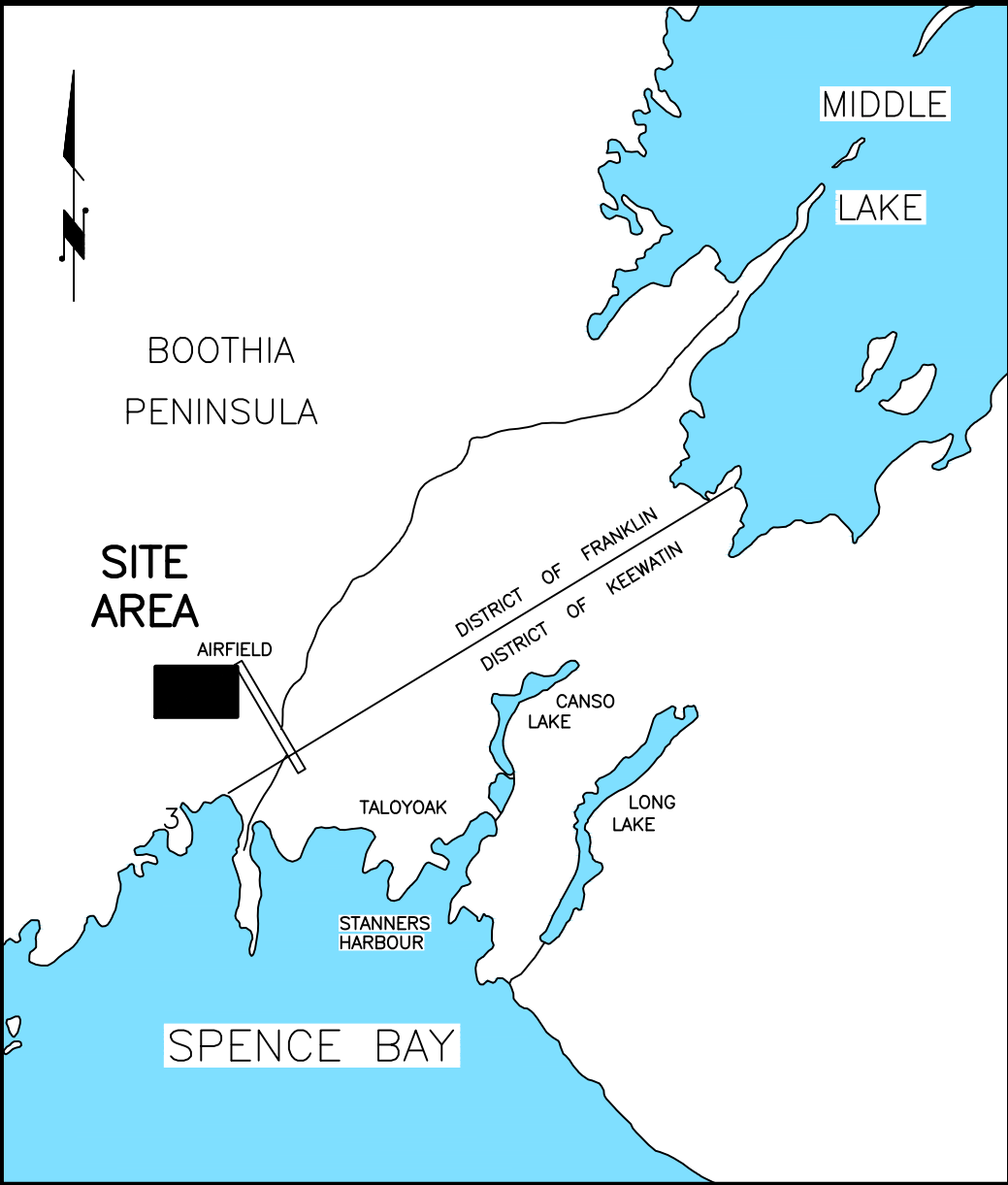
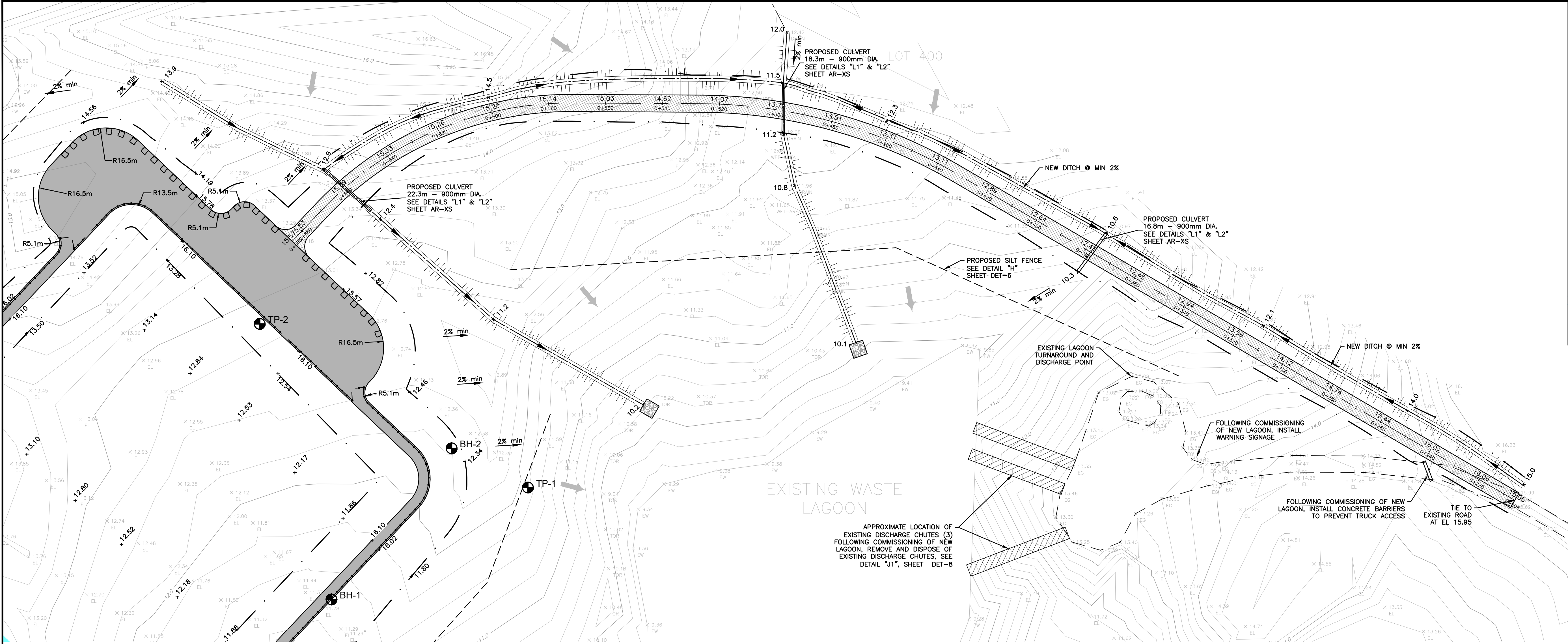
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BASE PLAN	S. BUTLER
DESIGN	C. KEUNG
CHECKED	K. JOHNSON
CAD	I. BILLIARD
PROJECT MANAGER	K. JOHNSON
APPROVED	---

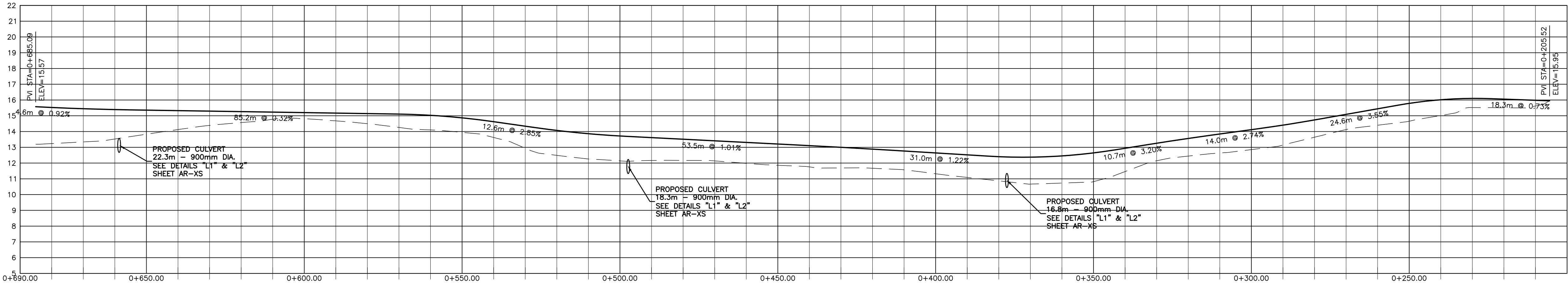
PROJECT	TALOYOAK WASTEWATER TREATMENT TALOYOAK, NUNAVUT
TITLE	EXISTING LAGOON DECOMMISSIONING WORK DETAILS

PROJECT No.	FRN-21016570-AG
SURVEY	#exp.
DATE	---
DRAWING No.	DET-8



LEGEND

- GABION MAT
- TOP OF BERM & TURNAROUND
- TOP OF ACCESS ROAD
- TOPOGRAPHIC SURVEY POINT
- PROPOSED GRADES
- STONE BOULDERS—SEE DETAIL SHEET FOR SPACING
- 5.0% SLOPE
- LOCATION OF SILT FENCING
- NEW FENCE LOCATION
- EXISTING DRAINAGE COURSE
- DIRECTION OF EXISTING OVERLAND FLOW
- DIRECTION OF PROPOSED OVERLAND FLOW
- PROPOSED DRAINAGE DITCH
- BOREHOLE/TESTPIT LOCATION



NOTES

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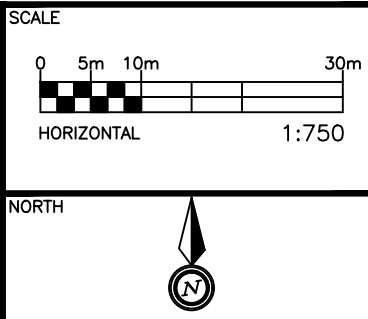
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EXP SERVICES INC.

Signature: *[Signature]*

Date: Mar 17 2022

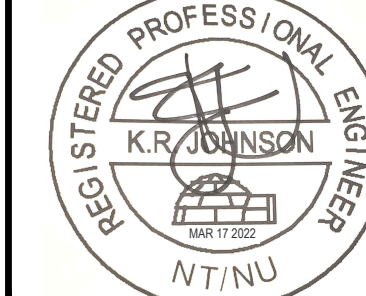
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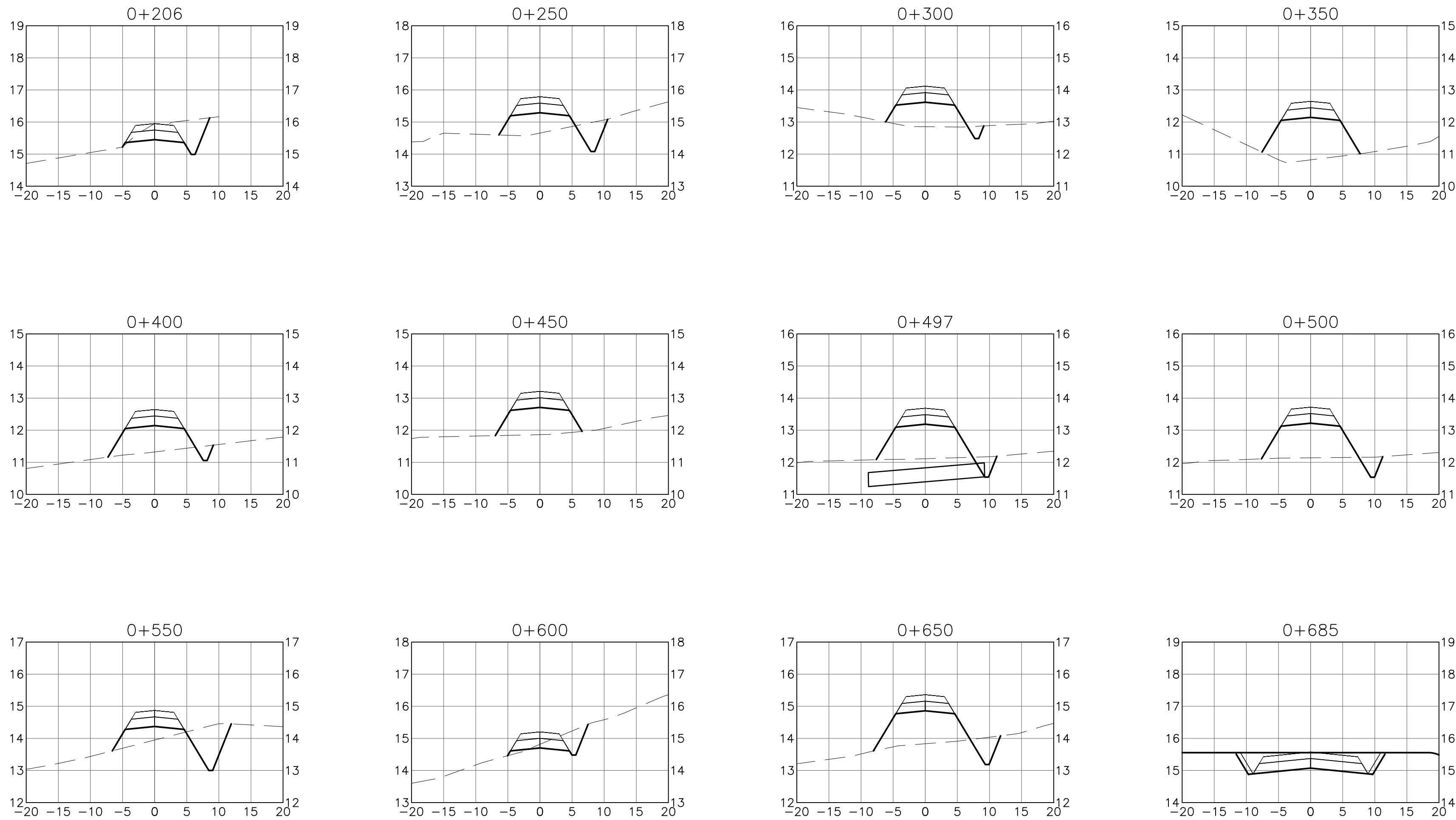
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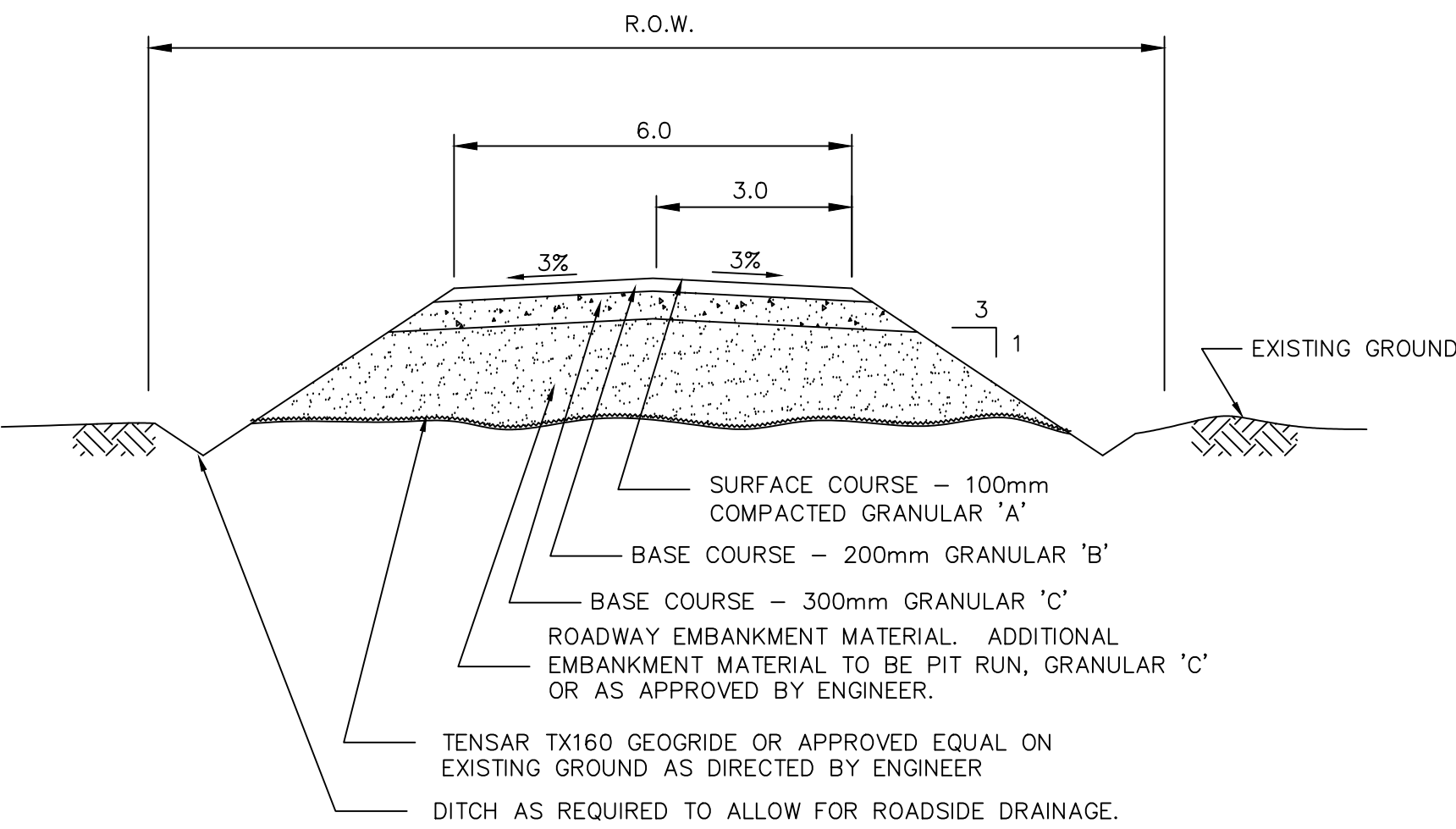
BASEPLAN	S.BUTLER
DESIGN	C.KEUNG
CHECKED	K.JOHNSON
CAD	I.BILLIARD
PROJECT MANAGER	K.JOHNSON
APPROVED	---

PROJECT	TALOYOAK WASTEWATER TREATMENT
	TALOYOAK, NUNAVUT
TITLE	ACCESS ROAD PLAN & DETAILS

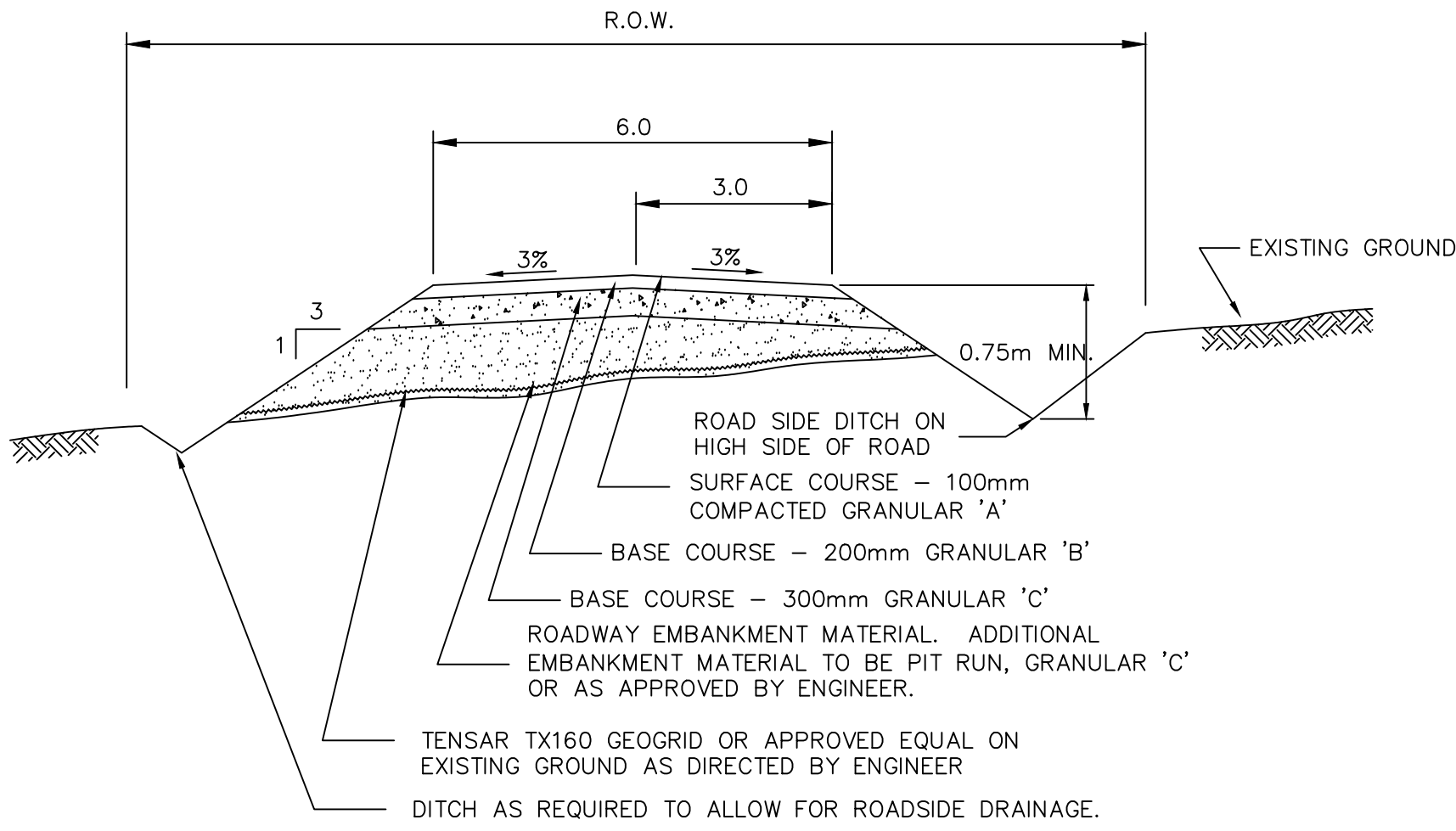
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SURVEY	exp.
DATE	----
DRAWING No.	AR-PP



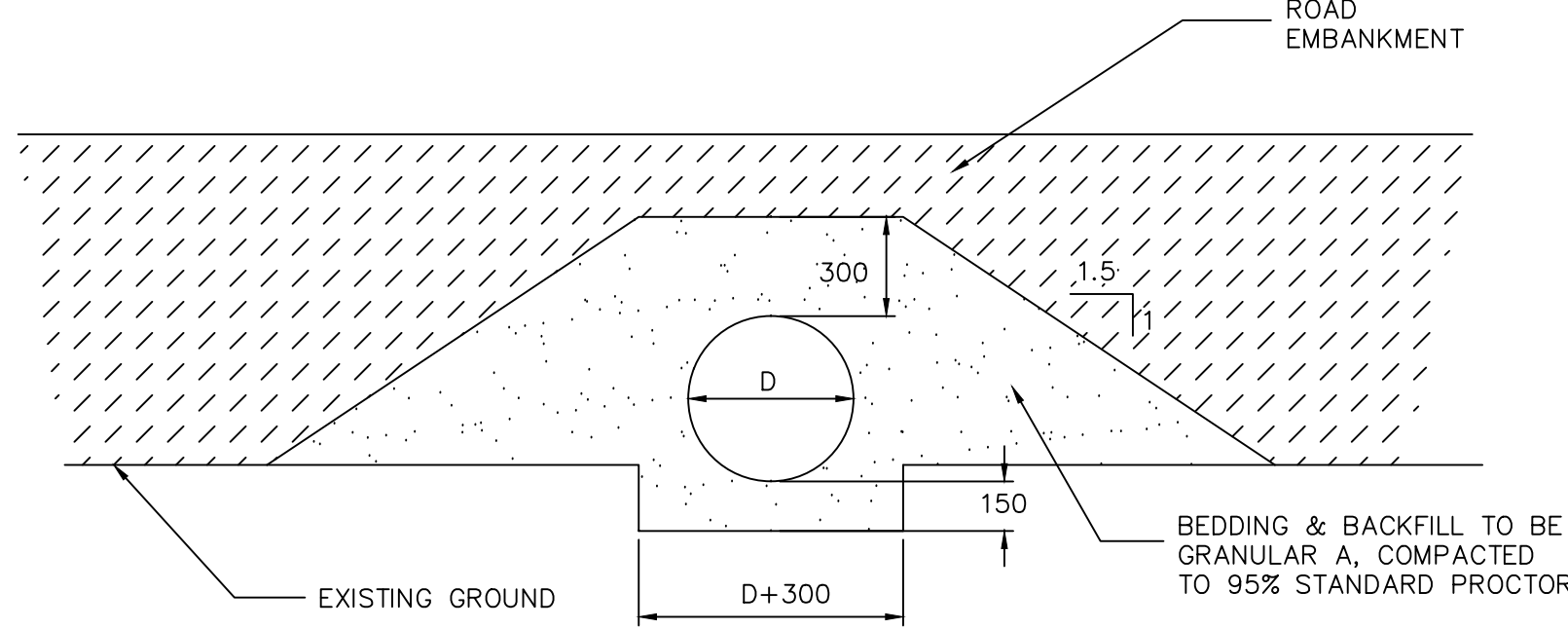
ACCESS ROAD CROSS SECTIONS
1:500 HORIZ 1:100 VERT



DETAIL "K1"
ROAD EMBANKMENT - LEVEL GROUND
N.T.S.

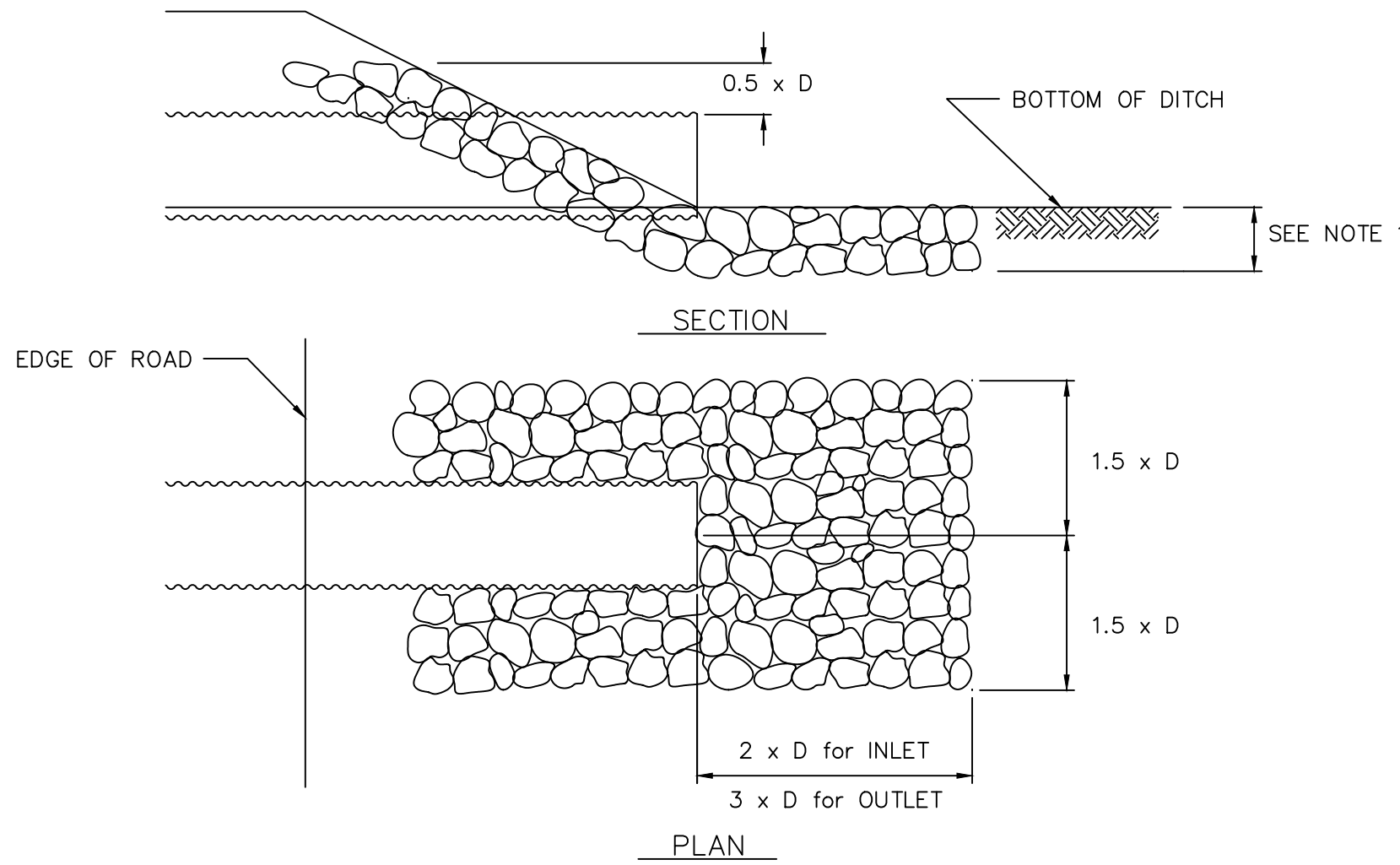


DETAIL "K2"
ROAD EMBANKMENT - SLOPED GROUND
N.T.S.



- NOTES:
1. MINIMUM COVER TO BE 450mm IN ROADS AND 300mm IN DRIVEWAYS.
 2. INVERT OF CULVERT TO BE EMBEDDED 150mm BELOW EXISTING GROUND.
 3. SEE DETAIL 'L2' FOR CULVERT APRON DETAIL.

DETAIL "L1"
PIPE CULVERT IN AN EMBANKMENT
N.T.S.



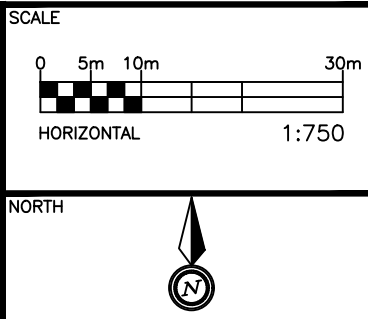
- NOTES:
1. RIP RAP THICKNESS TO BE 300mm FOR DIA. LESS THAN 1400mm, AND 600mm FOR DIA. GREATER THAN 1400mm
 2. RIP RAP TO BE HAND PLACED.
 3. MINIMUM CULVERT DIA. TO BE 400mm.
 4. NOMINAL SIZE OF RIP RAP TO BE 0.5 THICKNESS.
 5. TERRAFIX 270R GEOTEXTILE OR APPROVED EQUAL TO BE INSTALLED UNDER ENTIRE RIPRAP APRON.

DETAIL "L2"
CULVERT APRON DETAIL
N.T.S.

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1. CONTRACTORS AND SUBCONTRACTORS SHALL NOT SCALE FROM THIS DRAWING.
 2. ANY INCONSISTENCIES AND OMISSIONS FOUND ON THE DRAWINGS MUST BE REPORTED TO THE ENGINEER FOR CLARIFICATION BEFORE COMMENCING THE WORK.
 3. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND ELEVATIONS AND REPORT ALL FINDINGS TO THE ENGINEER. ONCE CONSTRUCTION HAS COMMENCED, THE CONTRACTOR ACCEPTS RESPONSIBILITY FOR ALL DIMENSIONS, ELEVATIONS, AND SITE CONDITIONS.
 4. THE POSITIONS OF POLE LINES, CONDUITS, WATERMAINS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES ARE NOT NECESSARILY SHOWN ON THE DRAWINGS. WHERE SHOWN ON THE DRAWING, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONFIRM THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND ASSUME ALL LIABILITY FOR DAMAGE TO THEM.
 5. ACCESS TO EXISTING LAGOON DISCHARGE LOCATION IS TO MAINTAINED AT ALL TIMES FOR CONTINUING MUNICIPAL OPERATIONS.

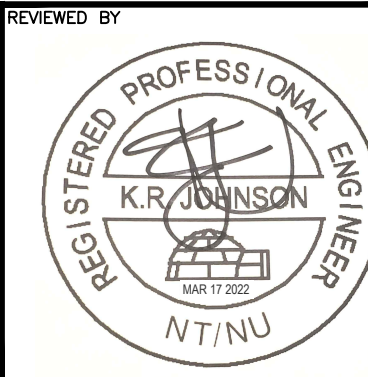
PERMIT OF PRACTICE
EXP SERVICES INC.
Signature *E. Bell*
Date **Mar 17 2022**
PERMIT NUMBER: P483
NT/NU Association of Professional
Engineers and Geoscientists

REV	REVISION DESCRIPTION	DATE	BY	APPRO
4	ISSUED FOR TENDER SUBMISSION	22/03/09	CK	KJ
3	99% DESIGN SUBMISSION	22/01/21	CK	KJ
2	75% DESIGN SUBMISSION	21/11/26	CK	KJ
1	PRELIMINARY	21/09/27	IB	KJ



DESIGNED BY

REVIEWED BY



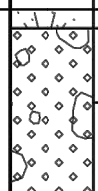

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GOVERNMENT OF NUNAVUT
COMMUNITY AND GOVERNMENT SERVICES
CAMBRIDGE BAY, NUNAVUT
exp. Services Inc.
1-813-688-1880 / 1-813-225-7330
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Canada
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• INDUSTRIAL • INFRASTRUCTURE • SUSTAINABILITY •

BASEPLAN
DESIGN
CHECKED
CAD
PROJECT MANAGER
APPROVED

PROJECT
S.BUTLER
C.KEUNG
K.JOHNSON
I.BILLIARD
K.JOHNSON
TITLE
ACCESS ROAD CROSS SECTIONS

PROJECT No.
FRN-21016570-AD
SURVEY
DATE
DRAWING No.
AR-XS



SOIL	SOIL DESCRIPTION	GEODETIC m
	ROOTMAT/TOPSOIL - grass covered tundra	12.6 12.5
	SAND Brown to grey, sand with silt and gravel, moist to wet - occasional cobbles and boulders - unfrozen	11.6
	BEDROCK Grey to pink granite	

SOIL DESCRIPTION	GEODETIC m
ROOTMAT/TOPSOIL - grass covered tundra	12.8 12.7
SAND Brown to grey, sand with silt and gravel, moist to wet - occasional cobbles and boulders - unfrozen	11.8
BEDROCK Grey to pink granite	
End of Borehole at 10.0 m - target depth	2.8

SOIL	SOIL DESCRIPTION	GEODEPTH m
	ROOTMAT/TOPSOIL - grass covered tundra	12.9 12.8
	<u>SAND</u> Brown to grey, sand with silt and gravel, moist to wet - occasional cobbles and boulders - unfrozen	11.8
	End of Test Pit at 1.1 m - practical refusal on sound bedrock	

SOIL DESCRIPTION	GEODETIC m
ROOTMAT/TOPSOIL - grass covered tundra	13.6 13.5
<u>SAND</u> Brown to grey, silty sand with gravel, moist to wet - occasional cobbles and boulders - unfrozen	12.5
End of Test Pit at 1.1 m - practical refusal on sound bedrock	

Geodetic m	SOIL DESCRIPTION	Geodetic m
13.1	ROOTMAT/TOPSOIL	13.0
	- grass covered tundra	
	SAND	12.3
	Brown to grey, sand to silty sand, moist to wet	
	- occasional cobbles and boulders	
	- unfrozen	
	End of Test Pit at 0.8 m	
	- practical refusal on sound bedrock	

SYMBOL	SOIL DESCRIPTION	GEODETIC m
	ROOTMAT/TOPSOIL - grass covered tundra	11.4 11.3
	<u>SAND</u> Brown to grey, silty sand with gravel, moist to wet - occasional cobbles and boulders - unfrozen	10.5
	End of Test Pit at 0.9 m - practical refusal on sound bedrock	

DEPTH m	SOIL DESCRIPTION	GEODEPTH m
	ROOTMAT/TOPSOIL	10.9
	- grass covered tundra	10.8
	SAND	
	Brown to grey, silty sand with gravel, moist to wet	
	- occasional cobbles and boulders	9.8
	- unfrozen	
	End of Test Pit at 1.1 m	
	- practical refusal on sound bedrock	

NOTES

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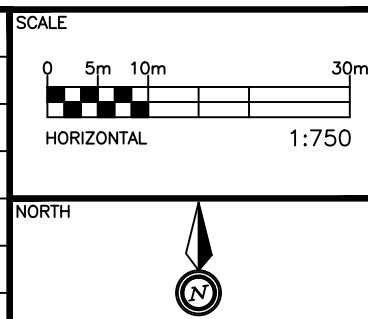
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EXP SERVICES INC.

Signature Eric Bell

Date Mar 17 2022

PERMIT NUMBER: P483
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DESIGNED BY

REVIEWED BY

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GOVERNMENT OF NUNAVUT
COMMUNITY AND GOVERNMENT SERVICES
CAMBRIDGE BAY, NUNAVUT

 **exp.** Services Inc.

T: +1 813 688 1899 | F: +1 813 225 7330
2650 Queensview Drive, Unit 100
Ottawa, ON K2B 8H6
Canada


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DESIGN	C.KEUNG
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CAD	I.BILLIARD
PROJECT MANAGER	K.JOHNSON
APPROVED	

PROJECT TALOYOAK WASTEWATER TREATMENT
TALOYOAK, NUNAVUT

TITLE	BOREHOLE DETAILS
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PROJECT No.	FRN-21016570-A0
SURVEY	
DATE	----
DRAWING No.	BH