



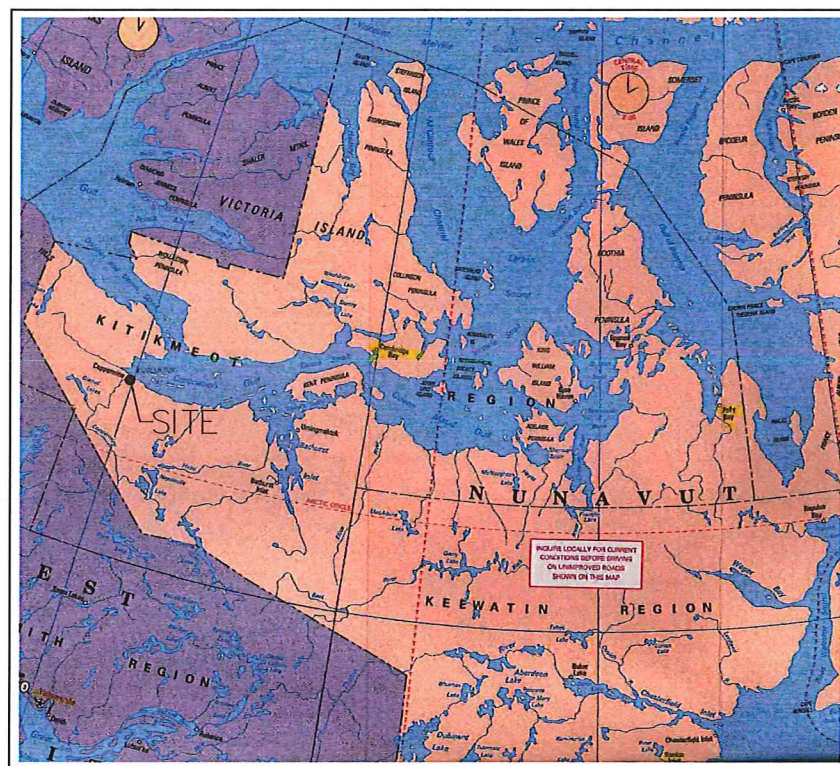
Appendix A

As-Built Drawings



PROPOSED SEWAGE LAGOON AND SOLID WASTE FACILITY UPGRADES HAMLET OF KUGLUKTUK, NUNAVUT

GOVERNMENT OF NUNAVUT
COMMUNITY AND GOVERNMENT SERVICES
P.O. BAG 200, CAMBRIDGE BAY, NUNAVUT X0B 0C0



Map Reference:
Map of Canada
Published by the CAA

KEY MAP

DRAWING INDEX

COVER PAGE AND DRAWING INDEX

- 1 *SOLID WASTE DISPOSAL FACILITY IMPROVEMENTS*
- 2 *SEWAGE LAGOON PLAN*
- 3 *SEWAGE LAGOON SECTIONS*
- 4 *SEWAGE LAGOON DETAILS*

नूना BURNSIDE

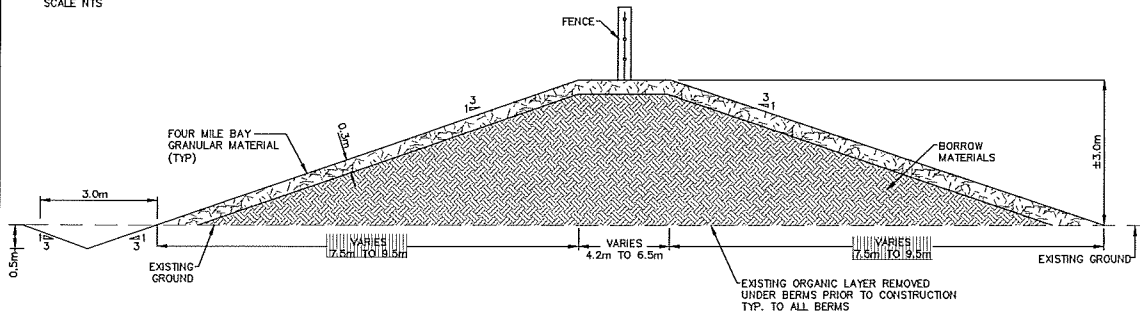
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telephone (519) 941-0342 fax (519) 941-8120
email info@nunaburnside.com
web www.nunaburnside.com

RECORD DRAWING

ORIGINAL SIGNED BY G.J. POPONCH, P. Eng.

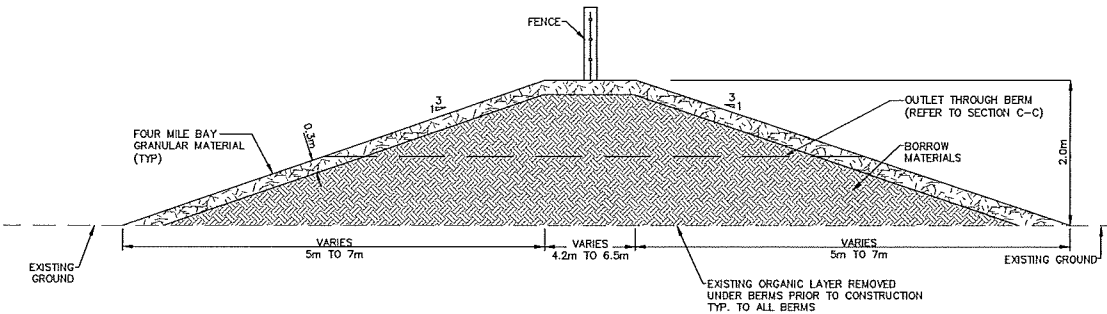
GN PROJECT NO. 04-4406

LANDFILL PERIMETER BERM
CROSS SECTION A-A
SCALE NTS

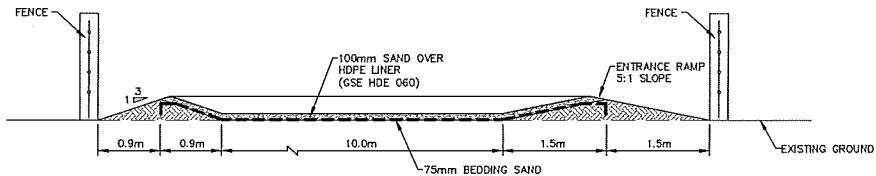


NOTE: FOUR MILE BAY GRANULAR MATERIAL PLACED OVER INTERIOR & EXTERIOR SLOPE OF PERIMETER BERM

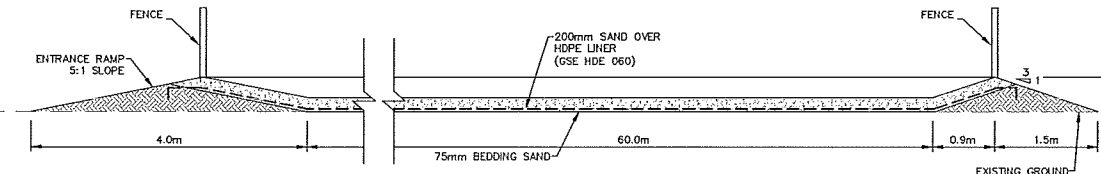
WATER RETENTION AREA
CROSS SECTION B-B
SCALE NTS



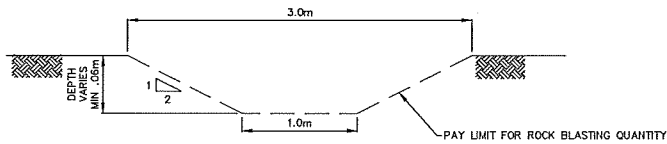
HAZARDOUS WASTE STORAGE
AREA CROSS SECTION D-D
SCALE NTS



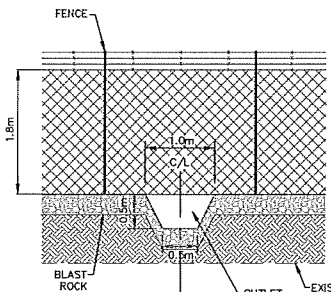
LANDFARMING AREA
CROSS SECTION E-E
SCALE NTS



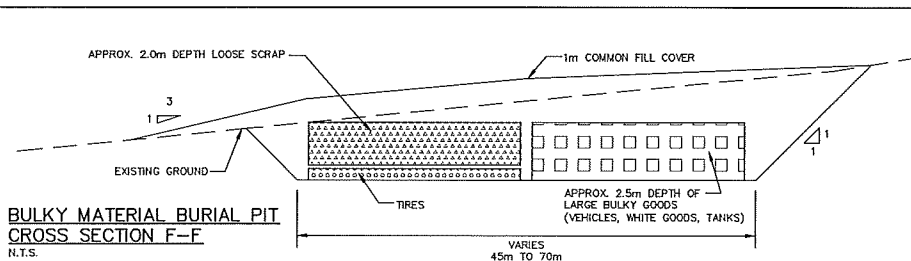
TYPICAL PERIMETER
DITCH DETAIL
SCALE NTS



OUTLET CROSS
SECTION C-C
SCALE 1:50



BULKY MATERIAL BURIAL PIT
CROSS SECTION F-F
N.T.S.



NOTES:

- ALL AREAS DISTURBED BY CONTRACTOR DURING CONSTRUCTION ACTIVITIES SHALL BE REINSTATED TO ORIGINAL CONDITION OR BETTER, BY THE CONTRACTOR.
- CONTRACTOR SHALL LOAD, HAUL AND PLACE AS SHOWN EXISTING TIRES, BULKY GOODS AND LOOSE SCRAP FROM EXISTING STORAGE AREA TO BULKY MATERIALS BURIAL PIT.
- TOPOGRAPHIC CONTOURS SHOWN ARE APPROXIMATE AND ARE DERIVED FROM REGIONAL TOPOGRAPHIC MAPS.

RECORD DRAWING

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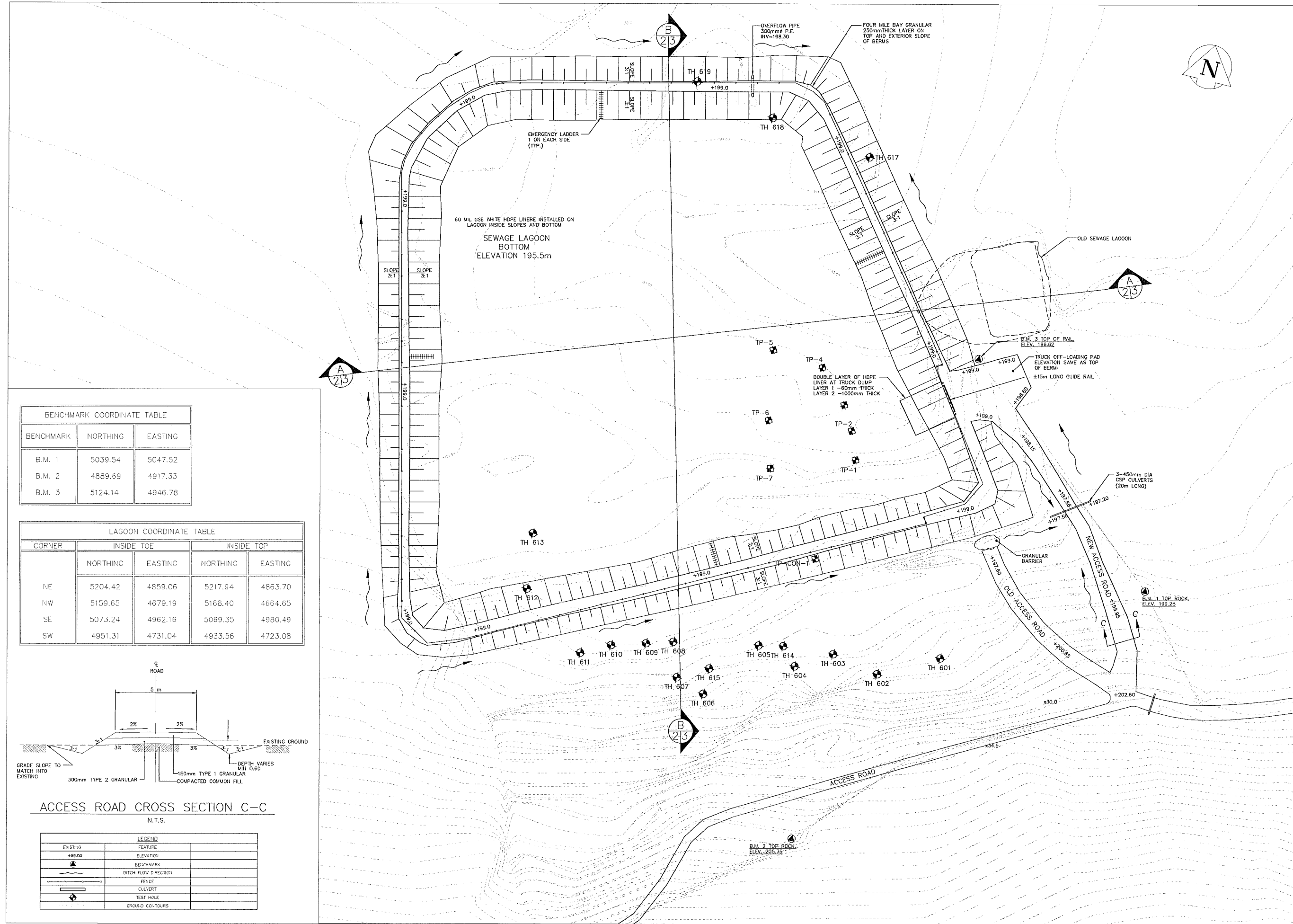


Client
GOVERNMENT OF NUNAVUT
PROJECT MANAGEMENT DIVISION
DEPARTMENT OF COMMUNITY AND
GOVERNMENT SERVICES (CGS)
KITIKMEOT REGION
P.O. BAG 200
CAMBRIDGE BAY, NUNAVUT
X0B 0C0

Drawing Title
THE HAMLET OF KUGLUKTUK
SOLID WASTE DISPOSAL
FACILITY IMPROVEMENTS

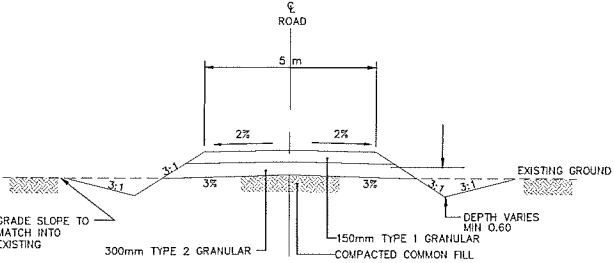
Drawn By
T.T.
Checked By
K. Hunter
Scale
AS SHOWN
Nuna Burnside Project No.
N-G 09755.0

Drawing
1



BENCHMARK COORDINATE TABLE		
BENCHMARK	NORTHING	EASTING
B.M. 1	5039.54	5047.52
B.M. 2	4889.69	4917.33
B.M. 3	5124.14	4946.78

LAGOON COORDINATE TABLE				
CORNER	INSIDE TOE		INSIDE TOP	
	NORTHING	EASTING	NORTHING	EASTING
NE	5204.42	4859.06	5217.94	4863.70
NW	5159.65	4679.19	5168.40	4664.65
SE	5073.24	4962.16	5069.35	4980.49
SW	4951.31	4731.04	4933.56	4723.08



ACCESS ROAD CROSS SECTION C-C
N.T.S.

LEGEND	
EXISTING	FEATURE
+89.00	ELEVATION
▲	BENCHMARK
—	DITCH FLOW DIRECTION
—	FENCE
—	CULVERT
⊕	TEST HOLE
—	GROUND CONTOURS

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4. Do not scale the drawings.

No.	Issue / Revision	Date
1	Client Review	Jan 01, 2000
2	Client Review and Approval	June 26, 2006
3	Issued for tender	July 17, 2006
4	Client Review and Approval	March 21, 2007
5	Issued for Construction	May 2, 2007
6	Record Drawing	November 18, 2008

RECORD DRAWING

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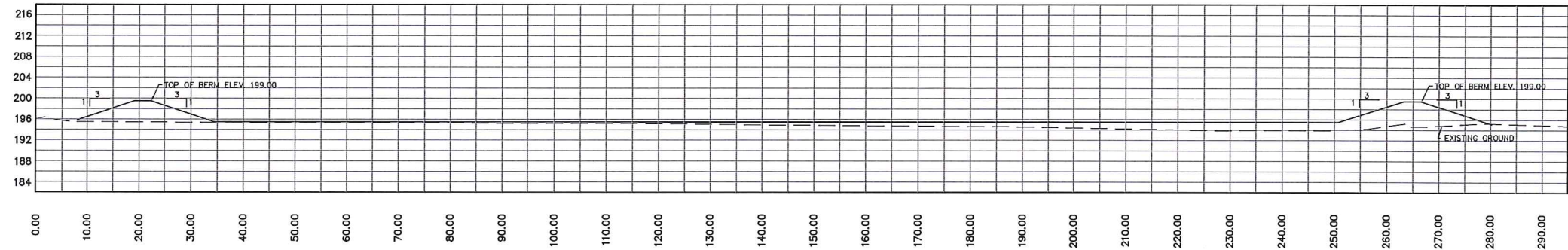
burnside

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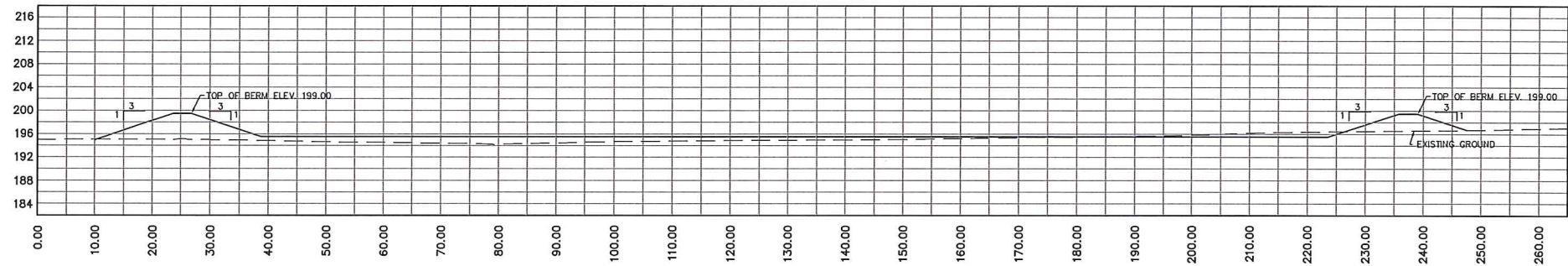
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PROJECT MANAGEMENT DIVISION
DEPARTMENT OF COMMUNITY AND
GOVERNMENT SERVICES (CGS)
KITIKMEOT REGION
P.O. BAG 200
CAMBRIDGE BAY, NUNAVUT
X0B 0C0

Drawing Title
THE HAMLET OF KUGLUKTUK
SEWAGE LAGOON PLAN

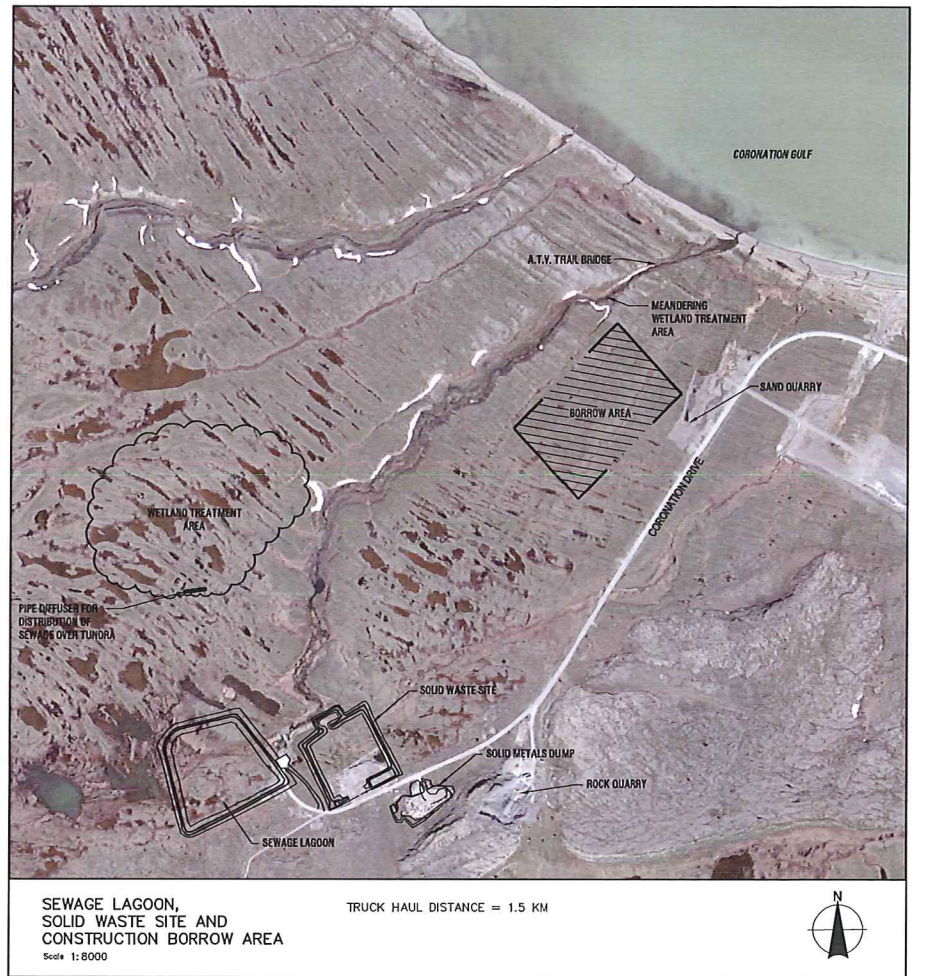
Drawn By J. McREDMOND	Checked By G. POPOWICH	Drawing No. 2
Scale 1:750	Project No. H-O 09755.0	



A SECTION A-A



B SECTION B-B



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RECORD DRAWING

ORIGINAL SIGNED BY G.J. POPOWICH, P. Eng.

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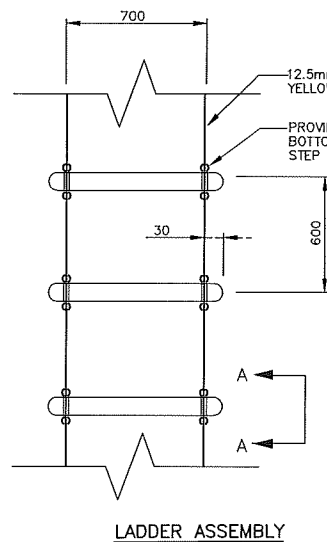
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CAMBRIDGE BAY, NUNAVUT
X0B 0C0

Drawing Title
**THE HAMLET OF KUGLUKTUK
SEWAGE LAGOON SECTIONS**

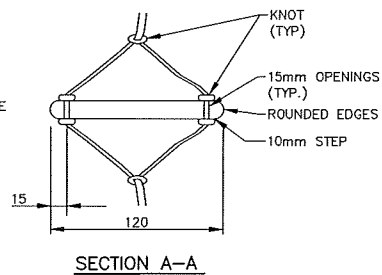
Drawn By
R.A.

Checked By
M.O'Hara/ X. Fernandes

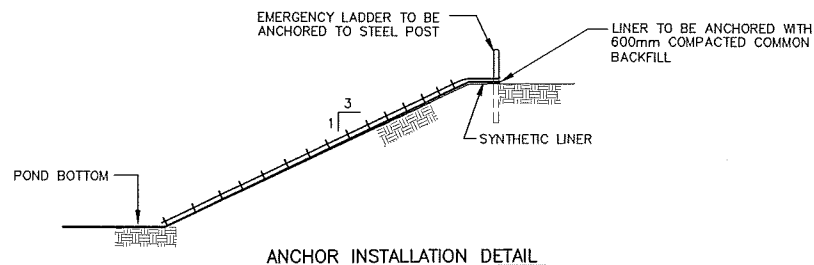
Drawing
3



LADDER ASSEMBLY



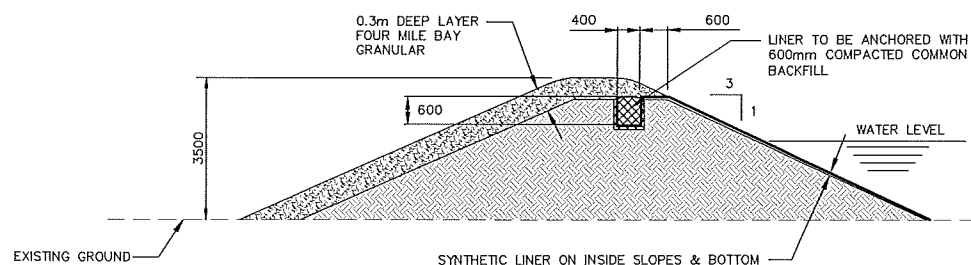
SECTION A-A



ANCHOR INSTALLATION DETAIL

EMERGENCY LADDER DETAILS

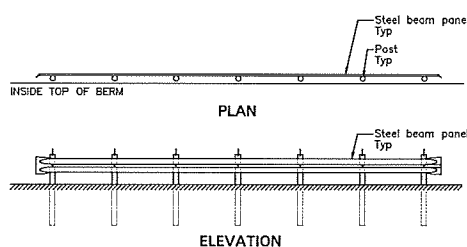
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NOTE:
FENCE NOT SHOWN FOR CLARITY

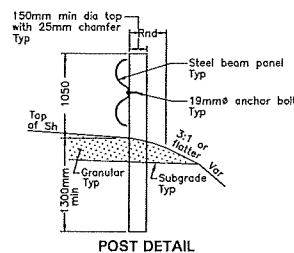
LAGOON BERM CROSS SECTION (TYP)

N.T.S.

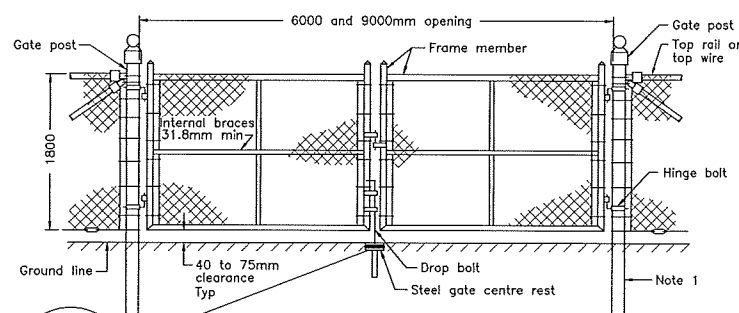


GUIDE RAIL AT TRUCK DUMP

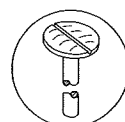
NTS



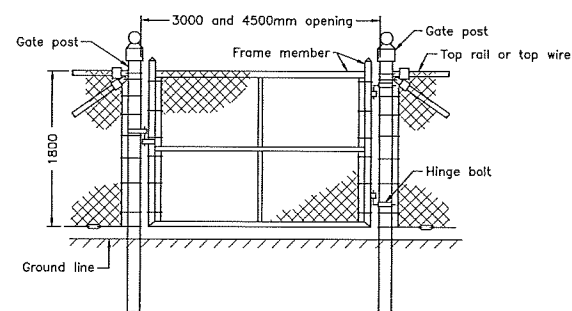
POST DETAIL



DOUBLE SWING GATE OPENING



STEEL GATE CENTRE REST



SINGLE SWING GATE OPENING

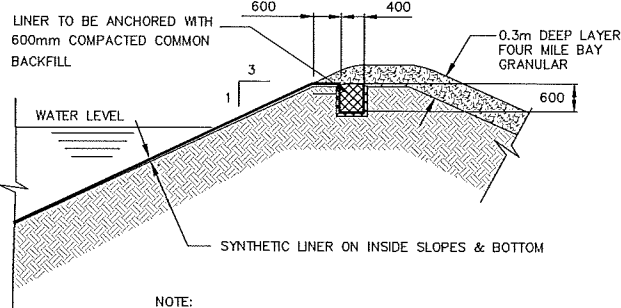
GATE AND GATE POST DETAILS			
Gate type and max opening m	Frame member min OD mm	Post dia min OD mm	Post length standard m
Single swing 3.0	42.9	88.9	2.6
Double swing 6.0	42.9	88.9	2.6
Single swing 4.5	48.3	114.3	2.9
Double swing 9.0	48.3	114.3	2.9

NOTES:

- A Gate frames greater than 3.6m in width are supplied with diagonal braces.
- B All dimensions are in millimetres unless otherwise shown.

FENCE, CHAIN LINK COMPONENT - GATE

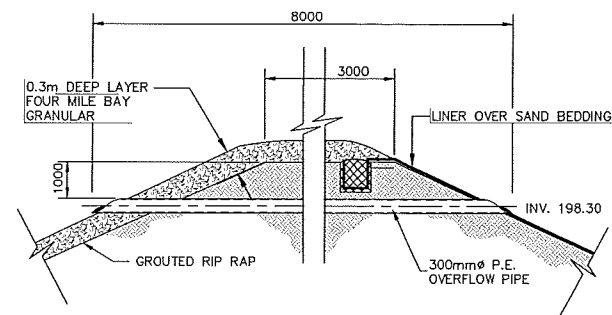
NTS



NOTE:
BERM CONSTRUCTED OF SAND MATERIAL TAKEN FROM BORROW PIT 15kms NORTHEAST OF SITE. PLACED IN LIFTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.

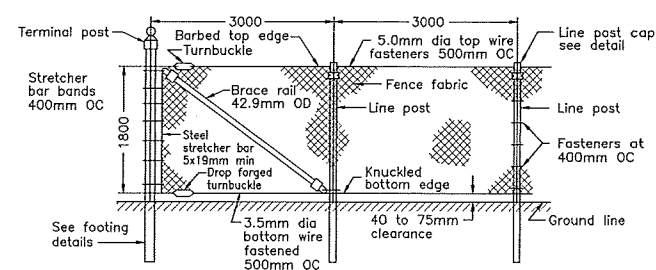
TYPICAL LINER ANCHOR DETAIL

N.T.S.

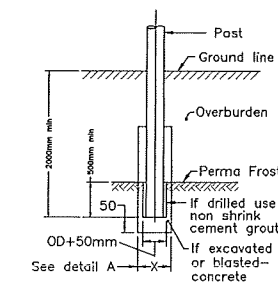


TYPICAL OVERFLOW DETAIL

N.T.S.



CHAIN LINK FENCE WITH TOP WIRE



TERMINAL AND LINE POST DETAIL (TYPICAL)

NOTE:
A All dimensions are in millimetres unless otherwise shown.

LINE POST WITH BARBED WIRE ARM

CHAIN LINK FENCE DETAILS

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RECORD DRAWING

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NOTES:

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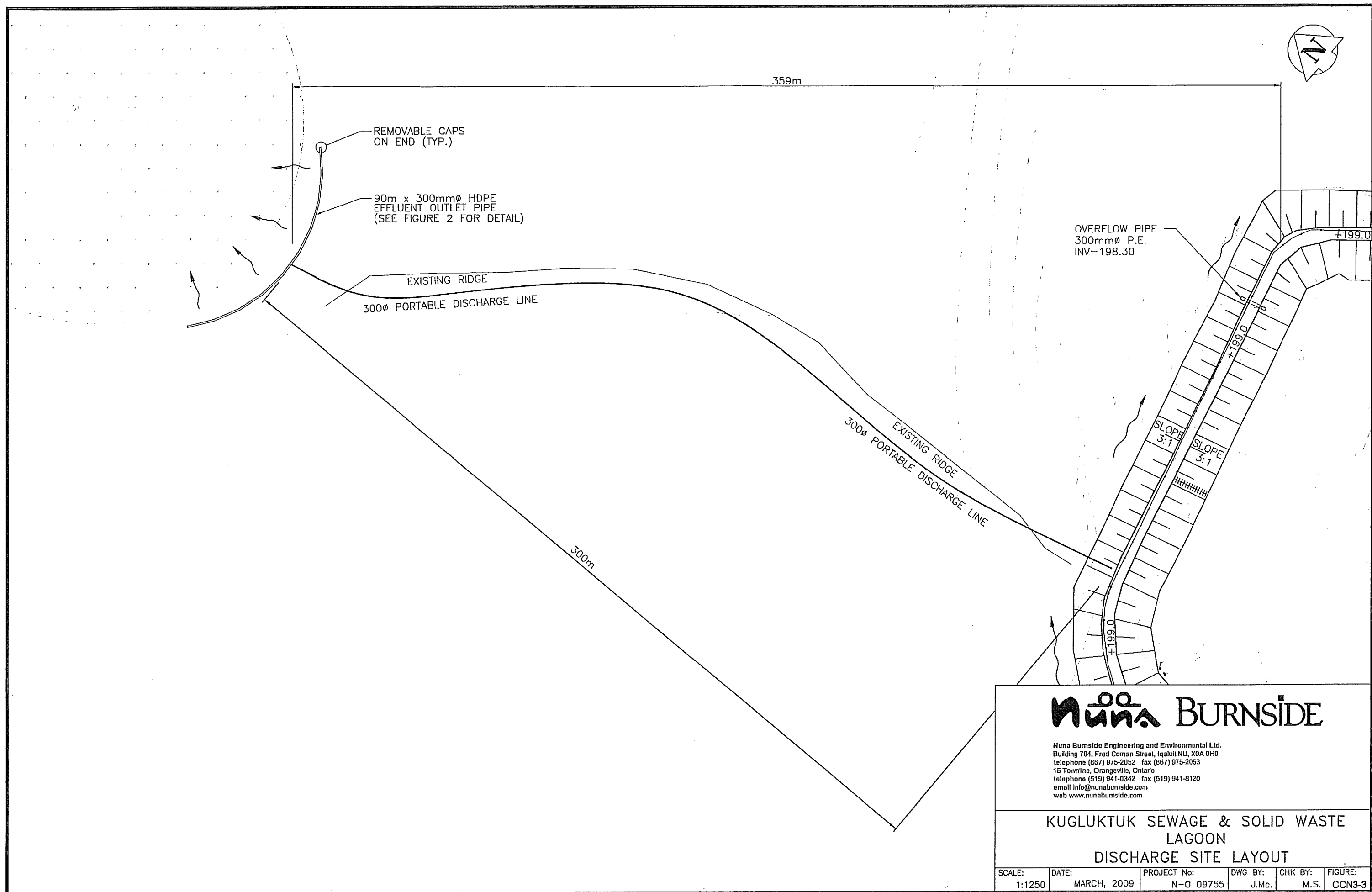
Nuna Burnside
Nuna Burnside Engineering and Environmental Ltd.
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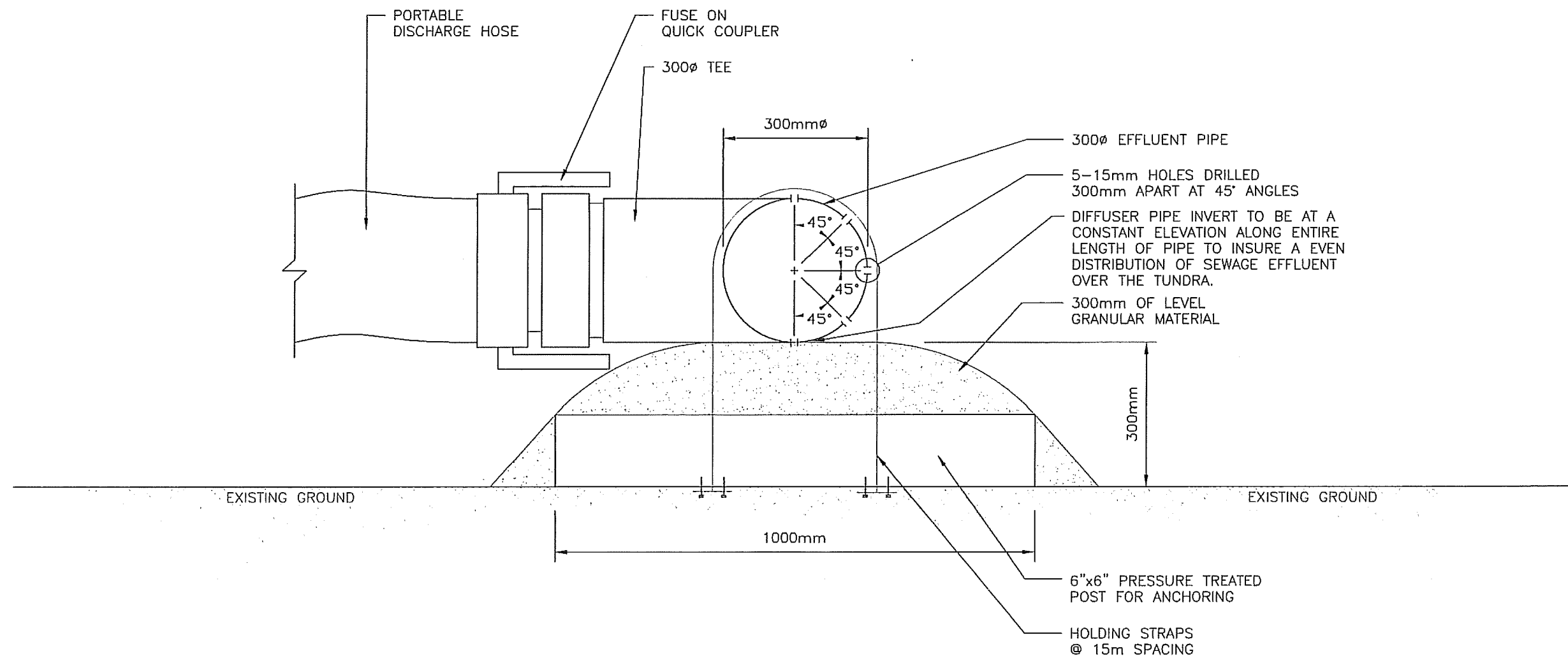


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PROJECT MANAGEMENT DIVISION
DEPARTMENT OF COMMUNITY AND
GOVERNMENT SERVICES (CGS)
KITIKMEOT REGION
P.O. BAG 200
CAMBRIDGE BAY, NUNAVUT
X0B 0C0

Drawing Title
THE HAMLET OF KUGLUKTUK
SEWAGE LAGOON DETAILS

Drawn By R.A.	Checked By M.O'Hara / X. Fernandes	Drawing 4
Scale NTS	Drawn Project No. N-0 09755.0	





EFFLUENT PIPE DETAIL

1:10

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web www.nunaburnside.com

KUGLUKTUK SEWAGE & SOLID WASTE
LAGOON
EFFLUENT PIPE DETAIL

SCALE: AS SHOWN	DATE: MARCH, 2009	PROJECT No: N-O 09755	DWG BY: J.Mc.	CHK BY: M.S.	FIGURE: CCN3-4
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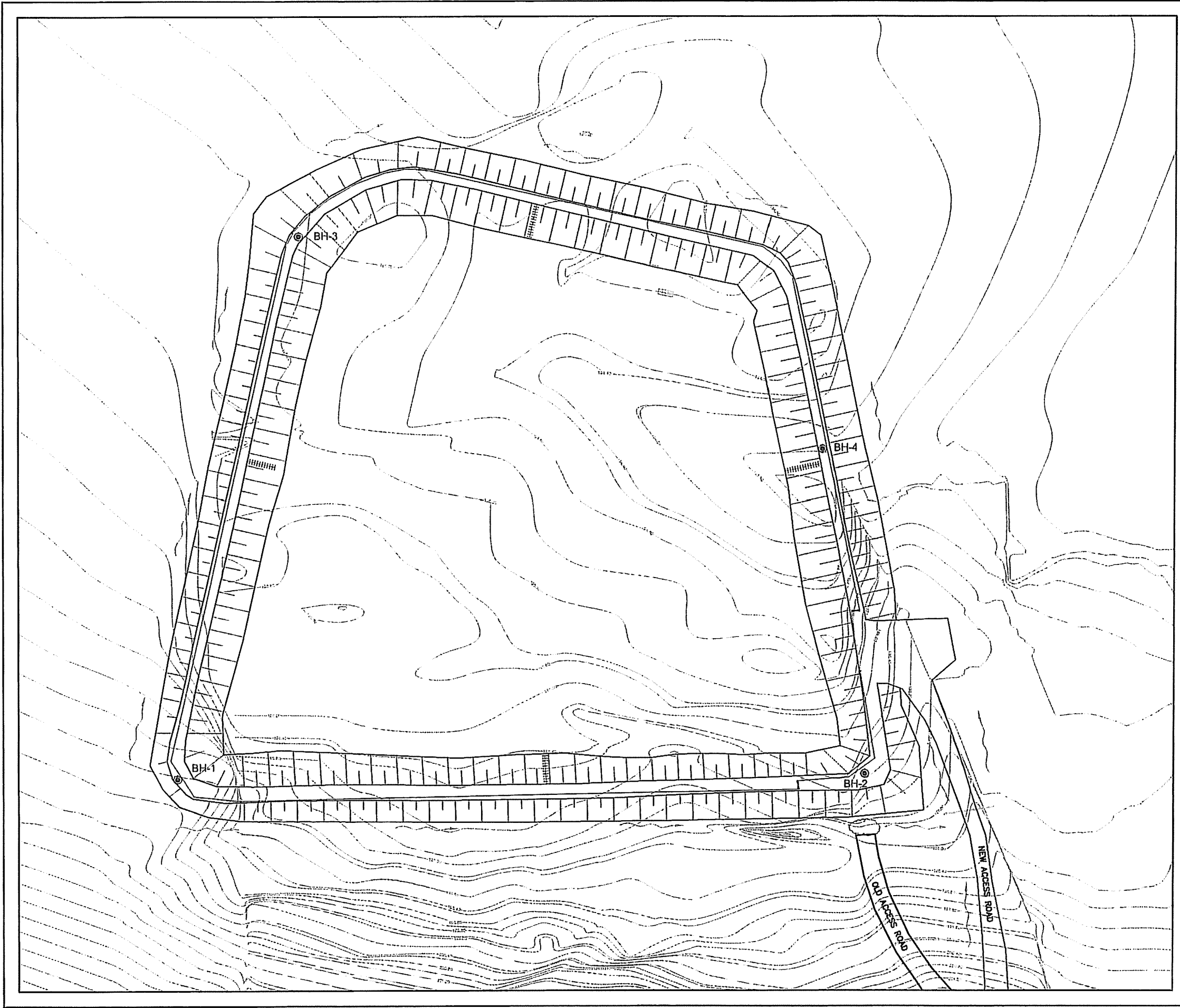


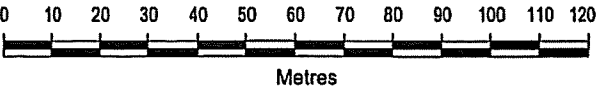
FIGURE 1

GOVERNMENT OF NUNAVUT
HAMLET OF KUGLUKTUK, NUNAVUT
THERMISTER BOREHOLE INSTALLATION

SEWAGE LAGOON SITE PLAN
WITH BOREHOLE LOCATIONS

LEGEND

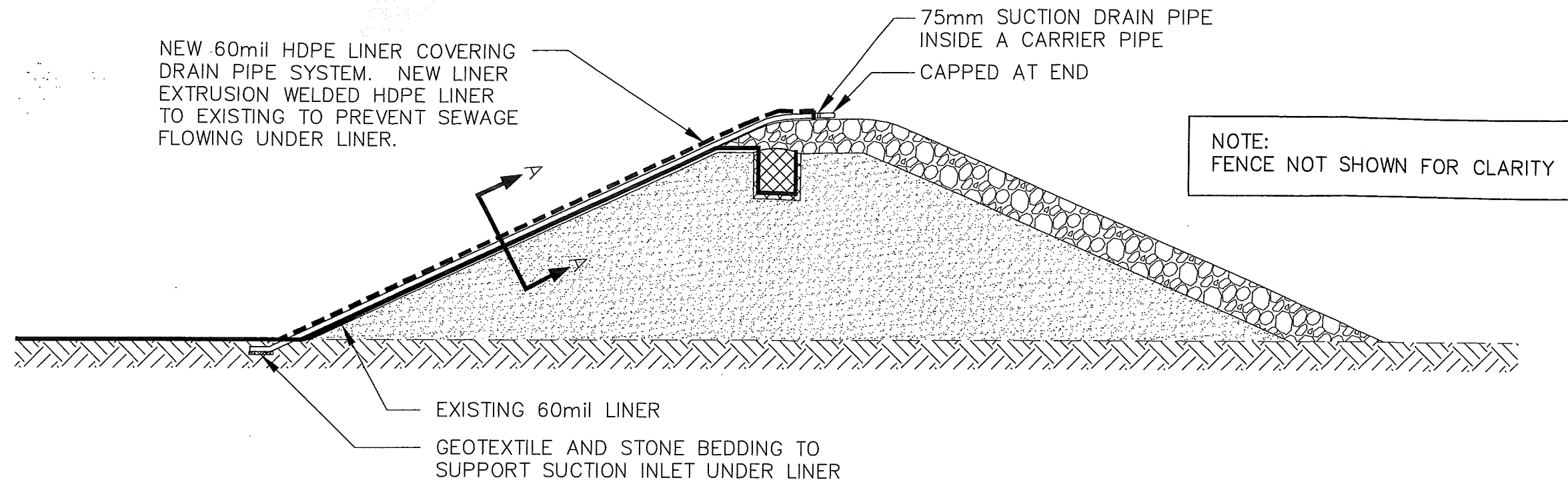
● THERMISTER BOREHOLE LOCATION
(by Nuna Burnside, 2009)



1:1,500
April 2009
Project Number: N-O09755
Prepared by: C. Sheppard

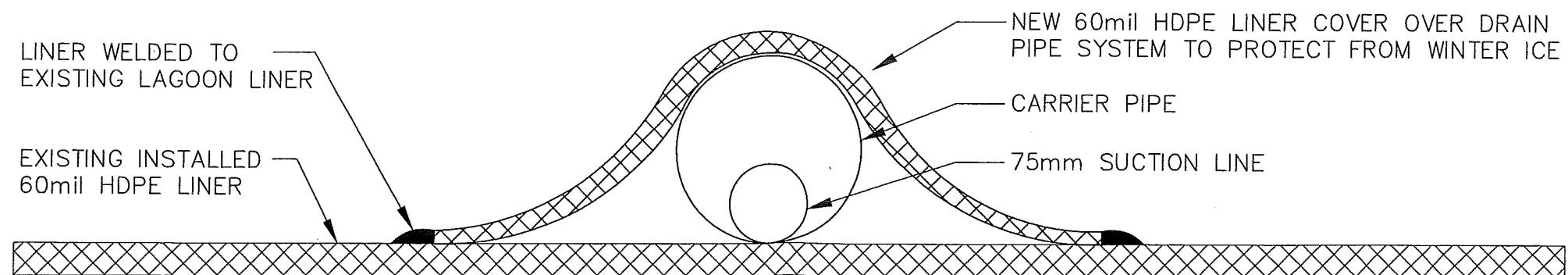
Projection: UTM Zone 11
Datum: NAD83
Verified by: J. Walls

नूना BURNSIDE



SUCTION PIPE CROSS SECTION

N.T.S.



SECTION A-A

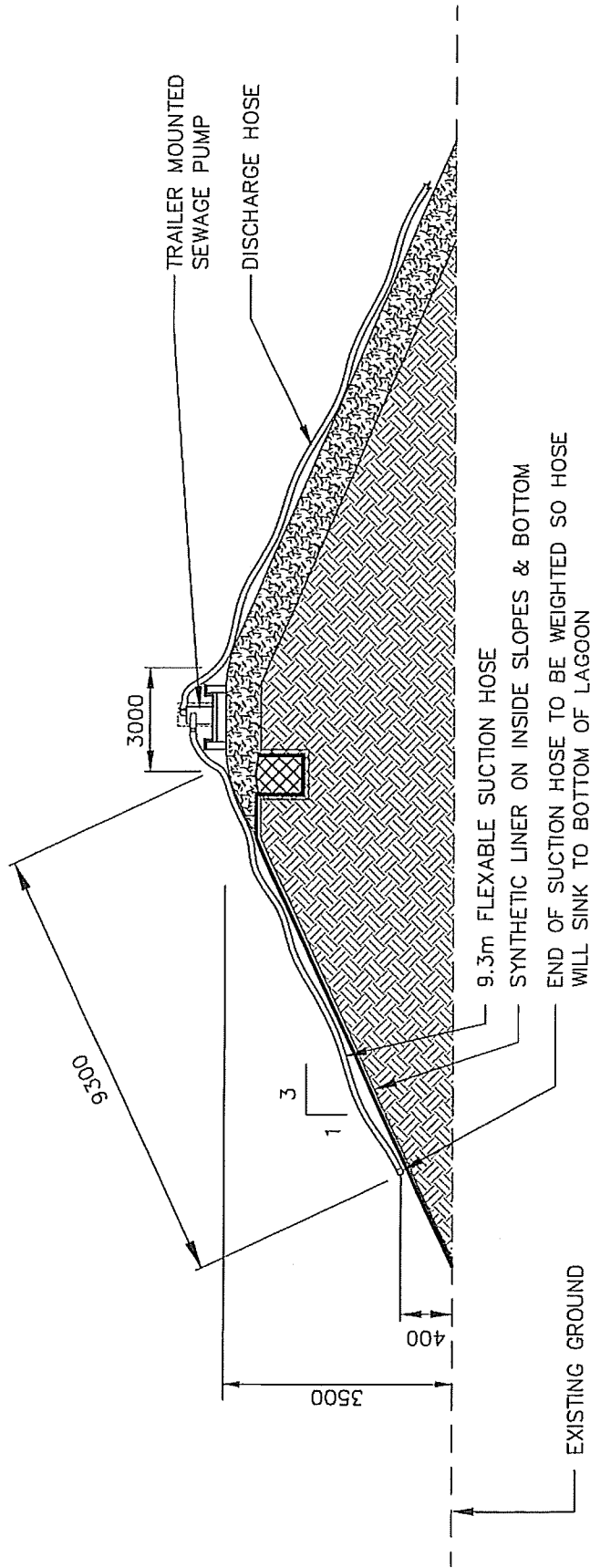
N.T.S.

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NUNA BURNSIDE LTD.
106 B SCURFIELD BLVD, WINNIPEG, MB. CANADA R3Y 1G4
TELEPHONE: 204-949-7110 FAX: 204-949-7111

THE HAMLET OF KUGLUKTUK
SEWAGE LAGOON
UNDERSIDE LINER DRAINAGE SYSTEM

SCALE: N.T.S.	DATE: AUG 30, 2011	PROJECT No: N-O 09755	DWG BY: C.G.	CHK BY: G.P.	FIGURE: 2.0
------------------	-----------------------	--------------------------	-----------------	-----------------	----------------



NOTE: FENCE NOT SHOWN FOR CLARITY

SUCTION PIPE CROSS SECTION

N.T.S.

THE HAMLET OF KUGLUKTUK
SEWAGE LAGOON
DISCHARGE PUMP AND PIPING

MEEGAN BURNSIDE

NEEGAN BURNSIDE LTD.
106 B SCURFIELD BLVD, WINNIPEG, MB. CANADA R3Y 1G4
TELEPHONE: 204-949-7110 FAX: 204-949-7111

SCALE:	DATE:	PROJECT No:	DWG BY:	CHK BY:	FIGL
N.T.S.	APRIL 20, 2009	N-O 09755	J.M.C.	M.S.	3.0