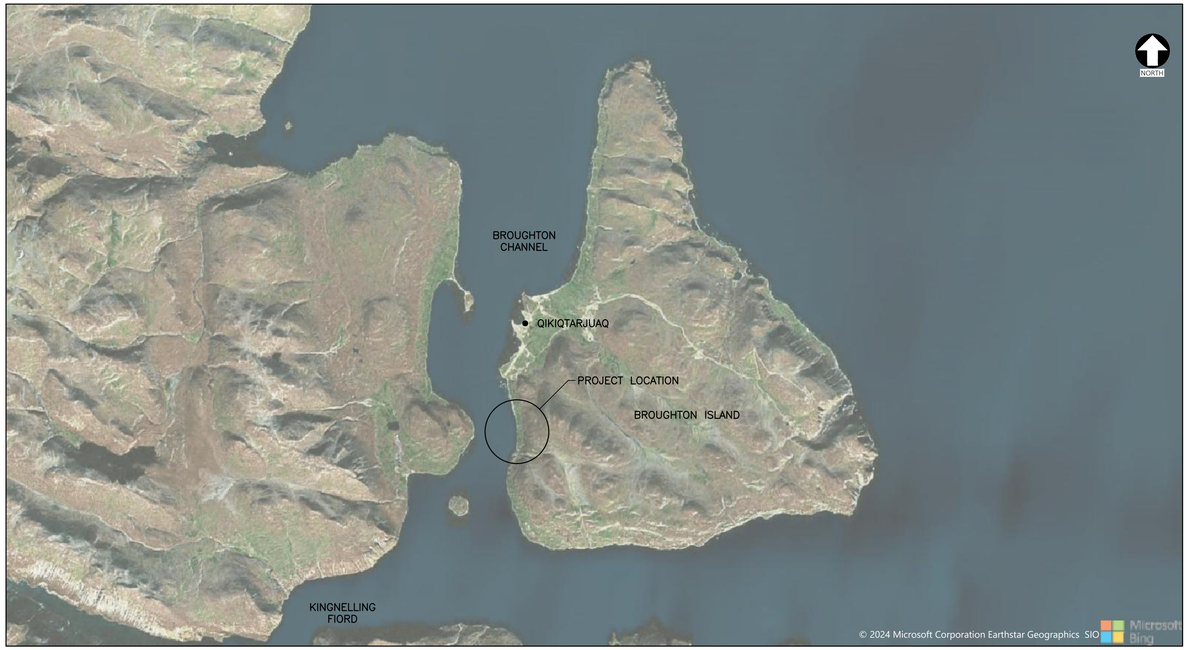
Project No. 234414

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Sheet Number	Sheet Title
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C02	ACCESS ROAD - PLAN / PROFILE
C03	LAYDOWN AREA SITE PLAN
C04	SECTIONS STA.0+020 TO 0+240 & DETAILS
C05	LAYDOWN AREA GRADING PLAN & CULVERT PROFILES
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BS105	DETAILS
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BM104	OFFICE BUILDING HEATING SCHEMATICS
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BM107	OFFICE BUILDING BOILER ROOM PLAN
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ARCHITECTURAL ELECTRICAL	
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SE03	PLAN DETAILS SHEET 1
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SE05	SINGLE LINE DIAGRAM
SE06	WIRING DIAGRAMS AND PANEL SCHEDULES
SE07	SCHEDULES
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T03	TOWER PROFILE, ANTENNA LOADING CHART, TX LINE LAYOUT & DETAIL VIEWS
T04	TOWER UNDERGROUND TRENCH DETAILS
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T06	TOWER FOUNDATION LAYOUT & ELEVATIONS

Government Of Nunavut

Qikiqtarjuaq Marine Infrastructure



CBCL

GUY ARCHITECTS
ARCHITECTURE . ENGINEERING . INTERIORS

varcon

ISSUED FOR TENDER OCT 23/25

DRAWING NAME: Y:\HALIFAX\DATA\PROJECTS\2023\23441.00 GOV OF NU A&E MARINE INFRASTRUCTURE\44 CAD\MSK00 COVER SHEET.DWG LAYOUT NAME: MSK00 PLOT DATE: October 23, 2025 4:47:14 PM CAD OPERATOR: SGRACE

NOTES:

1. HORIZONTAL COORDINATE SYSTEM IS UTM NAD83 (CSRS) ZONE 20 (CSRS.UTM-20N)
2. VERTICAL DATUM IS CHART DATUM
3. CHART DATUM TO CGVD2013 SEPERATION USED FOR QIKIQTARJUAQ IS 1.285m (SOURCE: CGS)
4. ALL ELEVATIONS AND SECTIONS ON PLANS AND SECTION ARE REFERENCED TO CHART DATUM
5. THE SHORELINE IS A DYNAMIC SYSTEM AND CHANGES IN TOPOGRAPHY MAY OCCUR FOLLOWING STORM EVENTS
6. ARCHITECTURAL ELEVATION 100.00m = 6.90m CD

QIKIQTARJUAQ TIDAL DATUMS (CHART DATUM)	
DATUM	DATUM ELEVATION (m)
HIGHER HIGH WATER LARGE TIDE (HHWLT)	+1.50m
HIGHER HIGH WATER MEAN TIDE (HHWMT)	+1.12m
MEAN WATER LEVEL (MWL)	+0.80m
LOWER LOW WATER MEAN TIDE (LLWMT)	+0.30m
LOWER LOW WATER LARGE TIDE (LLWLT)	0.00
GEODETIC (above CD)	-1.285

CONTROL POINT TABLE				
PNT No.	NORTHING (m)	EASTING (m)	ORTHO ELEV. (m)	CHART ELEV. (m)
M04T9500	7494104.940	455973.287	3.825	5.110
CCM8069703	7493589.659	457360.219	22.384	23.669
ABG1	7491790.603	455816.866	6.253	7.538

KEY PLAN

0 300 600 900 1200 1500m

1:15,000

GENERAL NOTES:

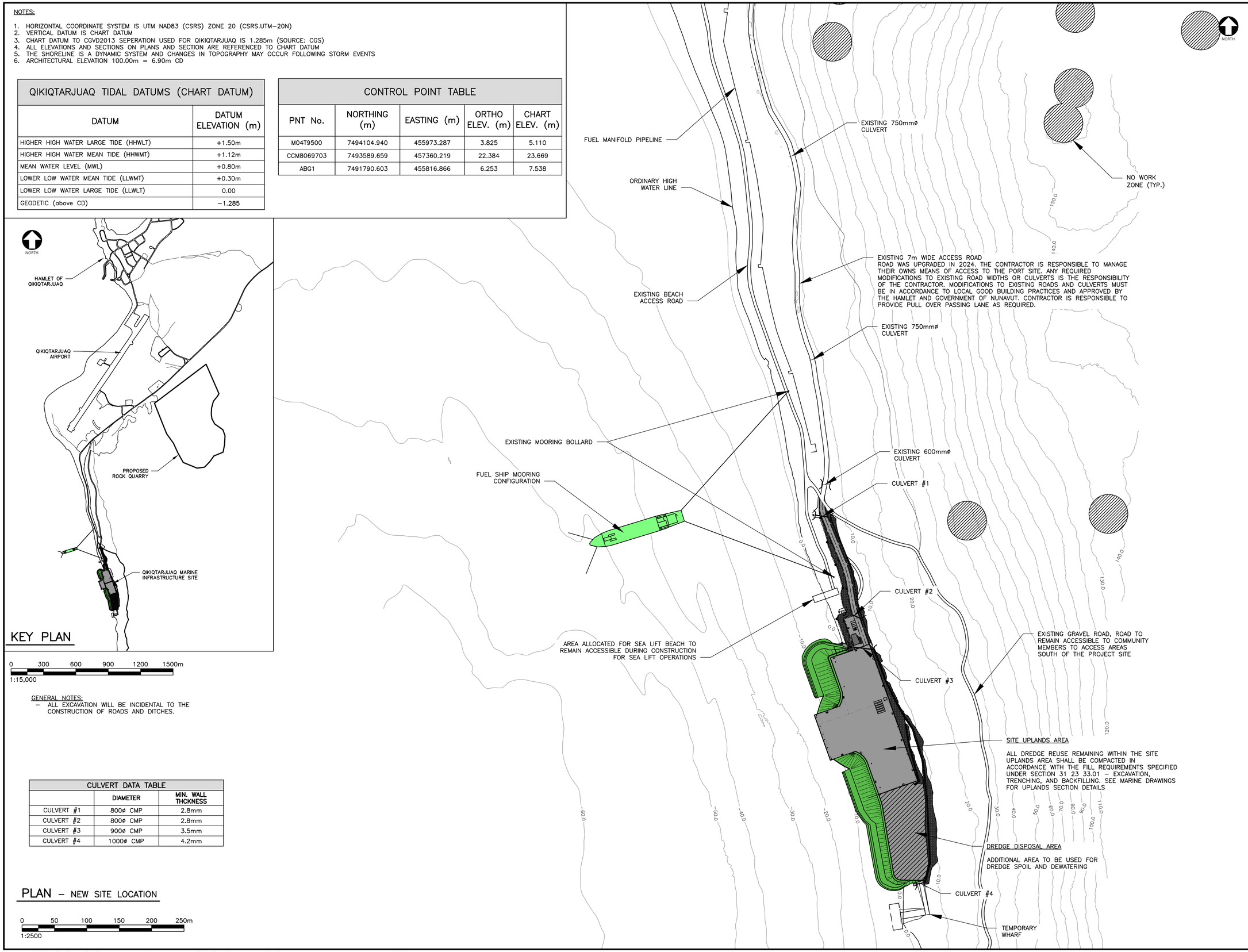
- ALL EXCAVATION WILL BE INCIDENTAL TO THE CONSTRUCTION OF ROADS AND DITCHES.

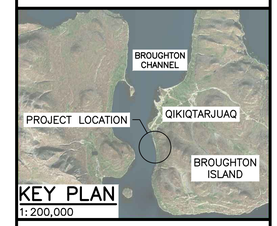
CULVERT DATA TABLE		
	DIAMETER	MIN. WALL THCKNESS
CULVERT #1	800ø CMP	2.8mm
CULVERT #2	800ø CMP	2.8mm
CULVERT #3	900ø CMP	3.5mm
CULVERT #4	1000ø CMP	4.2mm

PLAN - NEW SITE LOCATION

0 50 100 150 200 250m

1:2500





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Date 2025-10-23
PERMIT NUMBER: P1441
NT/NU Association of Professional Engineers and Geoscientists

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GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTUE

CIVIL

OVERALL - SITE PLAN

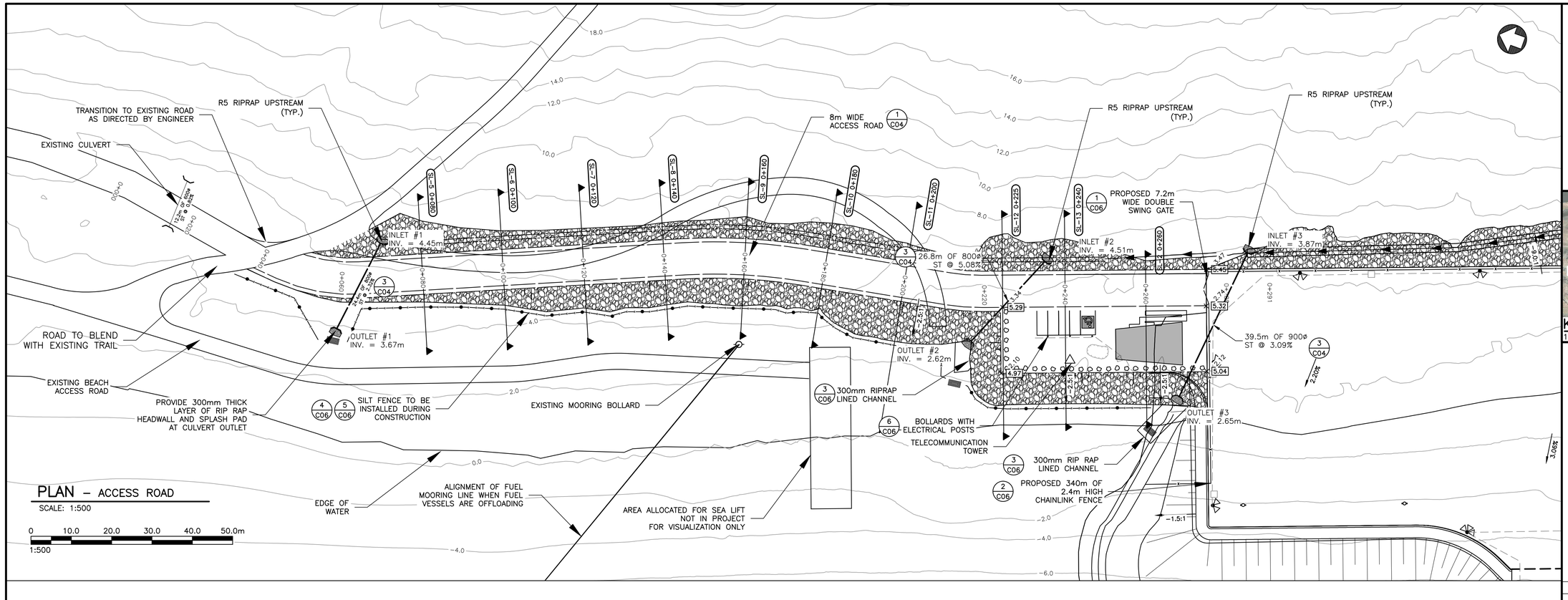
Prime Consultant

CBCL

Sub Consultant

REGISTERED PROFESSIONAL ENGINEER
D.D. PARSONS
LICENSEE
2025-10-23
NT/NU

CBCL No	Contract No
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Date NOV.2023	Scale 1:2500
Designed TLM	Drawn TLM
Checked DDP	Approved DDP
Sheet No 1 of 6	
Drawing No C01	

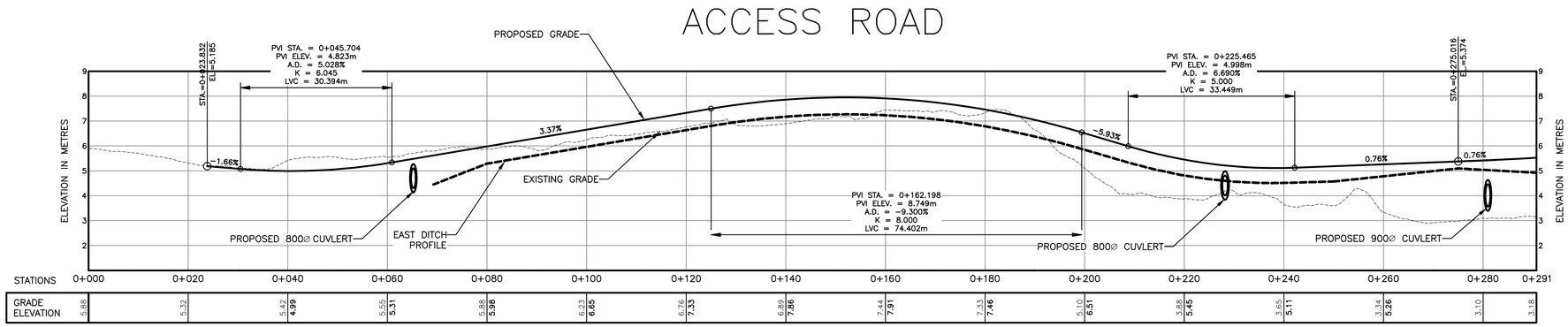


PLAN – ACCESS ROAD

SCALE: 1:500

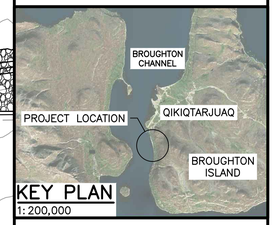
0 10.0 20.0 30.0 40.0 50.0m

1:500



PROFILE

H = 1:500; V = 1:100



KEY PLAN
1:200,000

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QIKIQTARJUAQ MARINE INFRASTRUCTUE

CIVIL

ACCESS ROAD PLAN/PROFILE

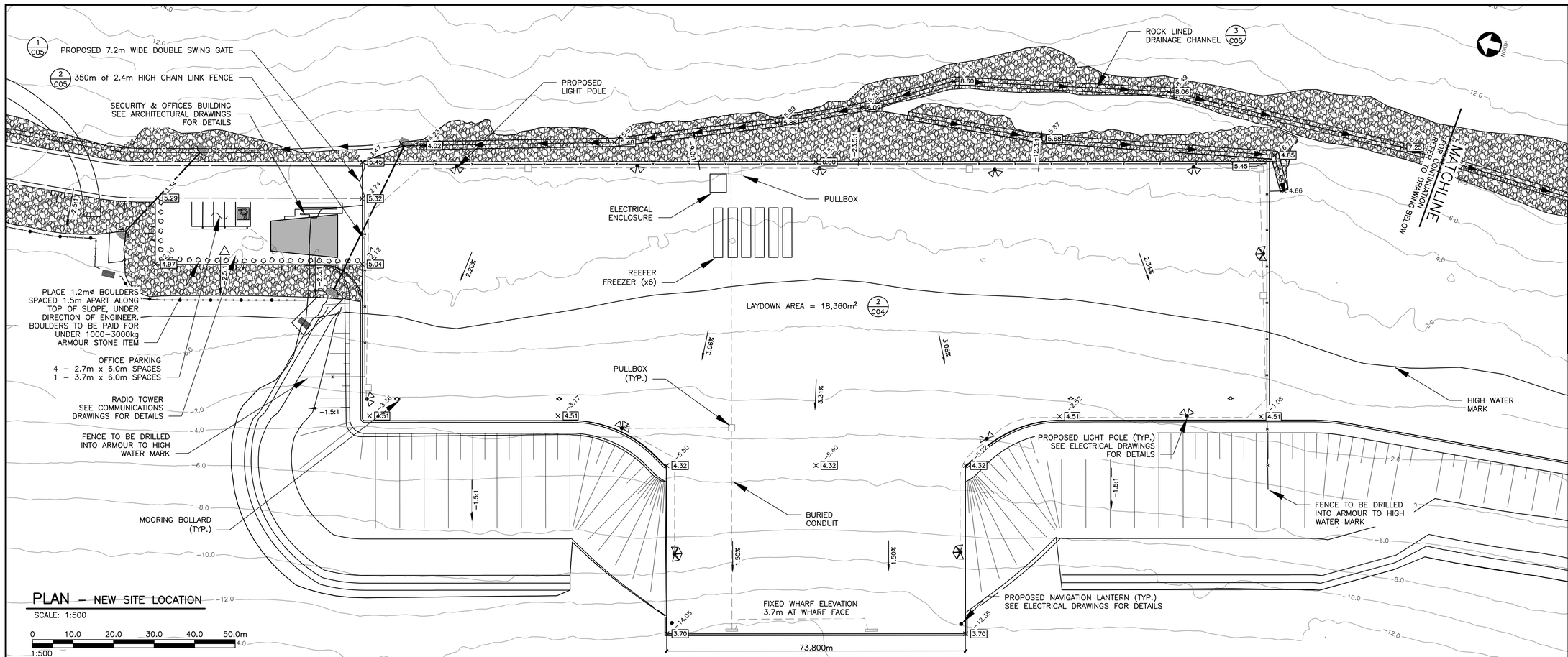
Prime Consultant

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D.D. PARSONS
LICENSEE
2025-10-23
NT/NU

CBCL No	Contract No
234414.00	22205.00762
Date: NOV.2023	Scale: 1:500
Designed: TLM	Drawn: TLM
Checked: DDP	Approved: DDP
Sheet No: 2 of 6	
Drawing No: C02	



PLAN – NEW SITE LOCATION

SCALE: 1:500

0 10.0 20.0 30.0 40.0 50.0m

1:500

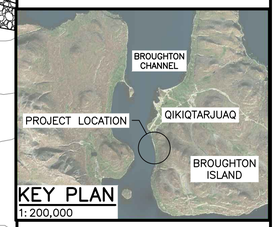
DREDGE DISPOSAL AREA NOTE:

DISPOSAL AREA IS TO BE LEVELED, GRADED AT A MINIMUM OF 2% TOWARD THE WATER WITH NO LOW AREA TO PREVENT HOLDING WATER

TEMPORARY WHARF ACCESS NOTE:

THE CONTRACTOR IS RESPONSIBLE TO CONSTRUCT THEIR OWN MEANS FOR ACCESS TO THE TEMPORARY WHARF

Nunavut



KEY PLAN
1: 200,000

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GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTUE

CIVIL

LAYDOWN AREA SITE PLAN

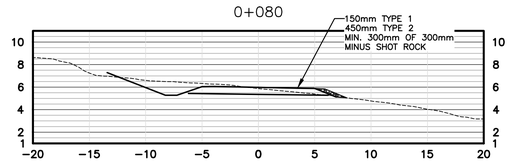
Prime Consultant

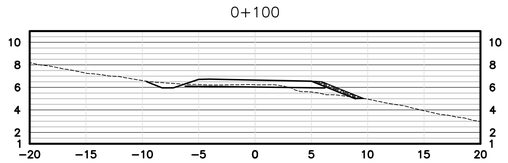
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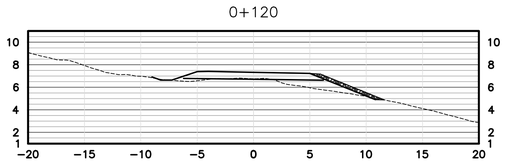
Sub Consultant

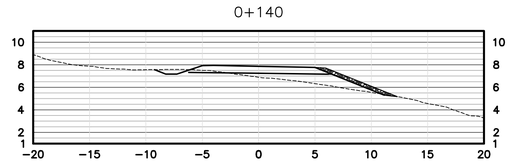
REGISTERED PROFESSIONAL ENGINEER D.D. PARSONS LICENSEE 2025-10-23 NT/NU

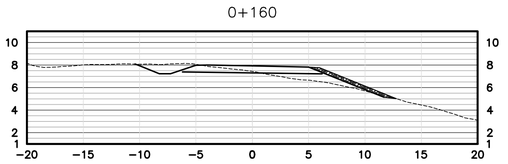
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Date	Scale
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Designed	Drawn
TLM	TLM
Checked	Approved
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Sheet No	
3 of 6	
Drawing No	
C03	

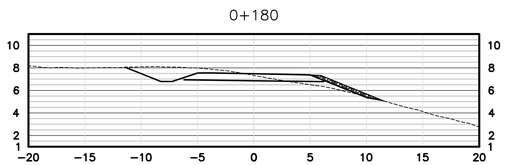


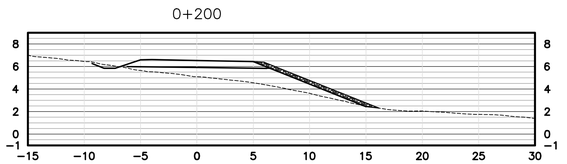


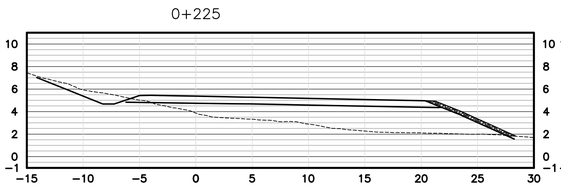


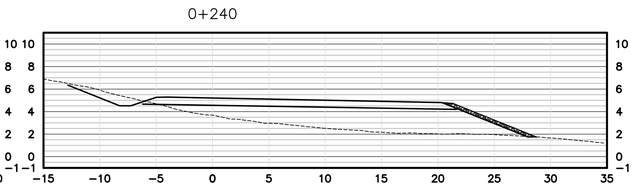


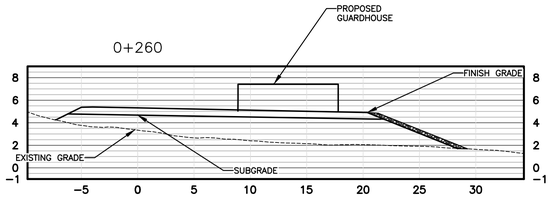










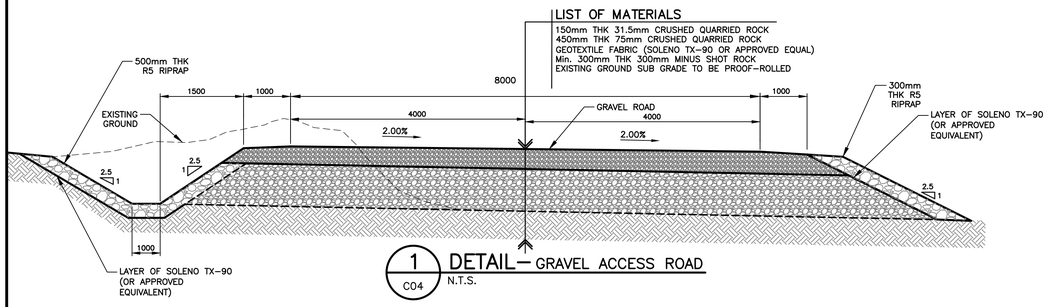


SECTIONS – ACCESS ROAD

H 1:250 V 1:250

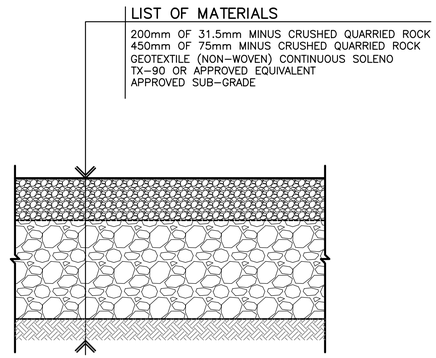
0 5.0 10.0 15.0 20.0 25.0m

1:250



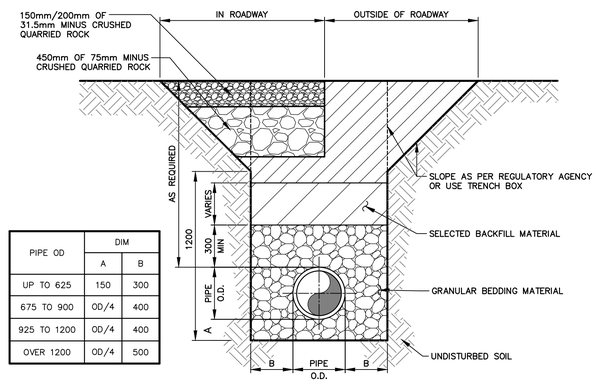
1 C04 DETAIL – GRAVEL ACCESS ROAD

N.T.S.



2 C04 DETAIL – LAY DOWN AREA

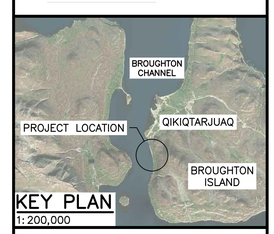
1:20



PIPE OD	DIM	
	A	B
UP TO 625	150	300
675 TO 900	OD/4	400
925 TO 1200	OD/4	400
OVER 1200	OD/4	500

3 C04 DETAIL – SINGLE PIPE TRENCH – TYPICAL

1:20



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Revision or Issue

GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTUE

CIVIL

SECTIONS
STA. 0+020 to 0+240
& DETAILS

Prime Consultant

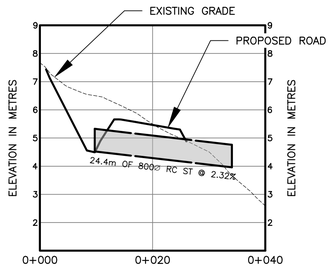
CBCL

Sub Consultant

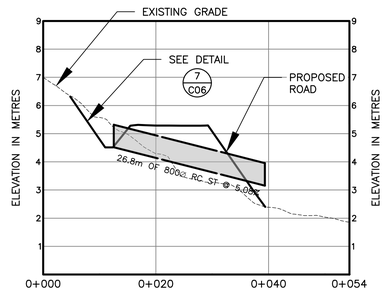
REGISTERED PROFESSIONAL ENGINEER
D.D. PARSONS
LICENSEE
2025-10-23
NT/NU

CBCL No 234414.00	Contract No 22205.00762
Date NOV.2023	Scale 1:250
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Checked DDP	Approved DDP
Sheet No 4 of 6	
Drawing No C04	

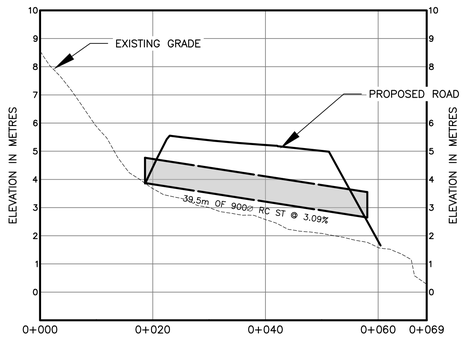
CULVERT #1 – STA. 0+068



CULVERT #2 – STA. 0+230

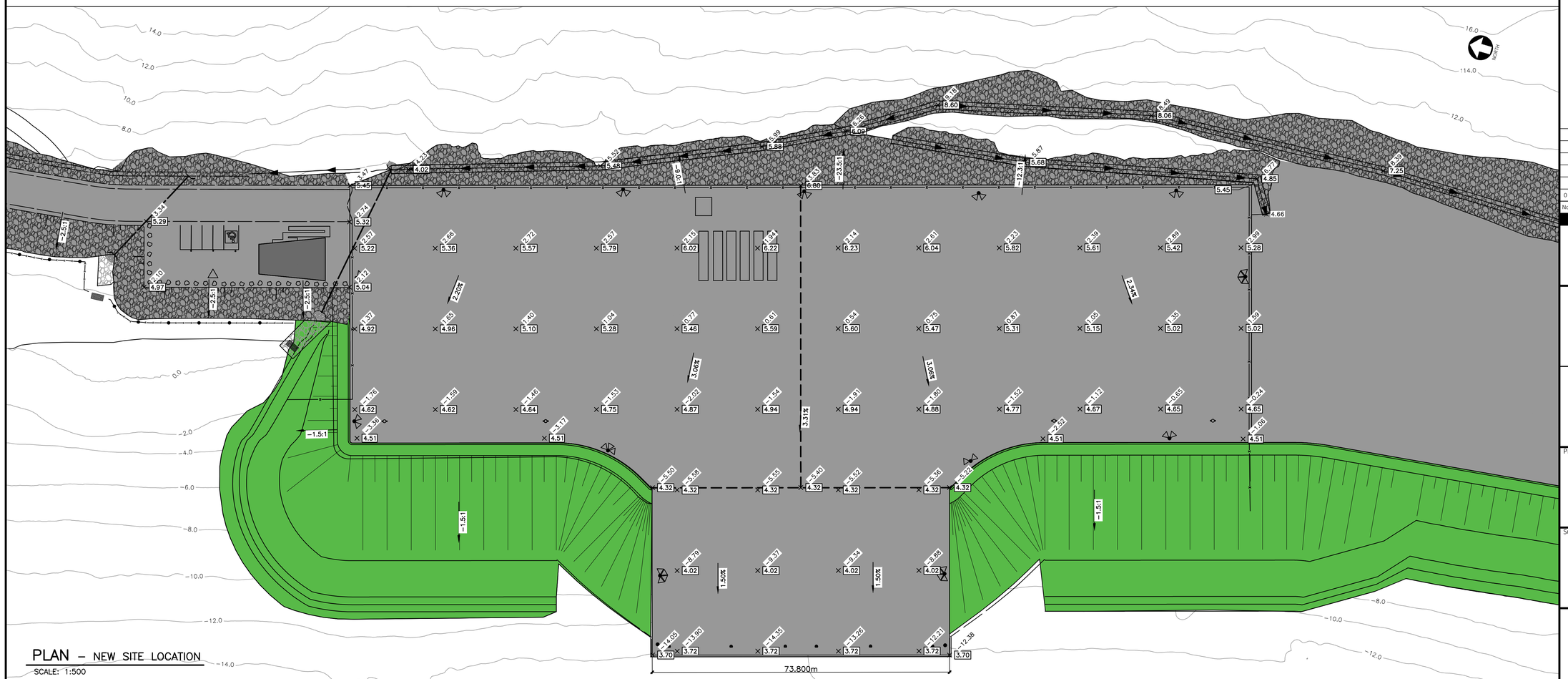


CULVERT #3 – STA. 0+285



PROFILES – CULVERTS

H 1:500 V 1:100



PLAN – NEW SITE LOCATION

SCALE: 1:500

0 10.0 20.0 30.0 40.0 50.0m

1:500



KEY PLAN
1: 200,000

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CBCL Limited
Signature
Date 2025-10-23
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Revision or Issue

GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTUE

CIVIL

LAYDOWN AREA
GRADING PLAN & CULVERT PROFILES

Prime Consultant

CBCL

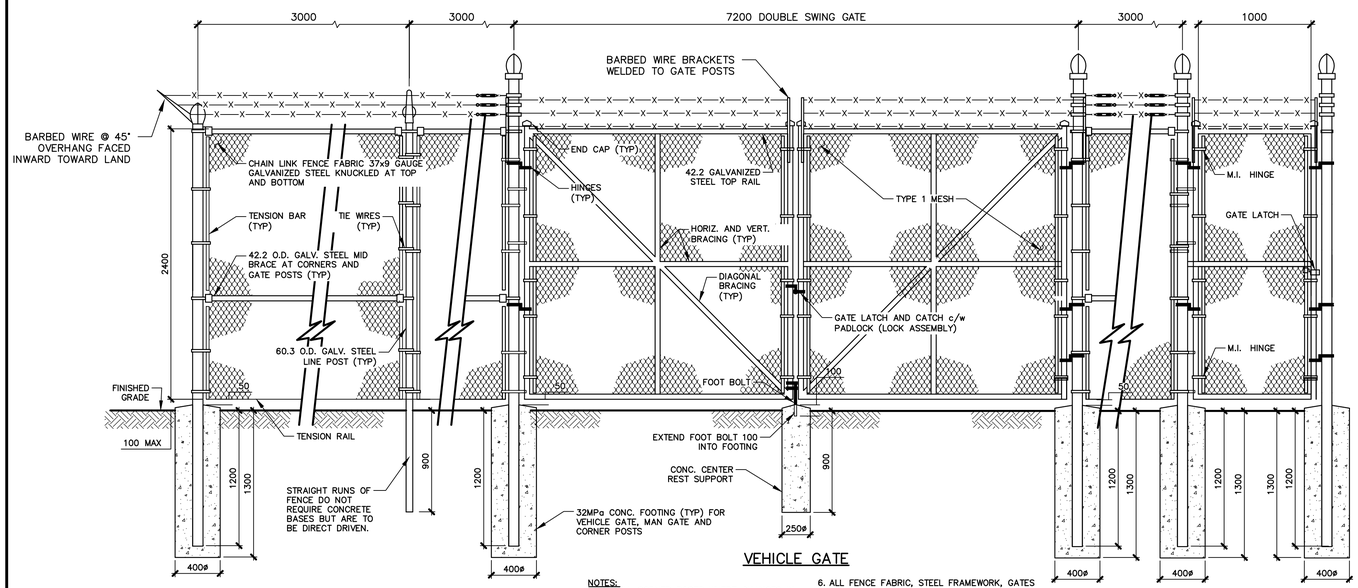
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D.D. PARSONS
LICENSEE
2025-10-23
NT/NU

CBCL No 234414.00	Contract No 22205.00762
Date NOV.2023	Scale 1:500
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Checked DDP	Approved DDP
Sheet No 5 of 6	
Drawing No C05	

DRAWING NAME: Y:\HALIFAX\DATA\PROJECTS\2023\234414.00 GOV OF NU A&E MARINE INFRASTRUCTURE\44 CAD\01 CIVIL\03 DRAWING SHEETS\TM\C02_TM01_20250905.DWG LAYOUT NAME: CSK05 PLOT DATE: October 23, 2025 11:02:14 AM CAD OPERATOR: TMOORE

CBCL-610x914 TITLE SHEET (ARCH D)



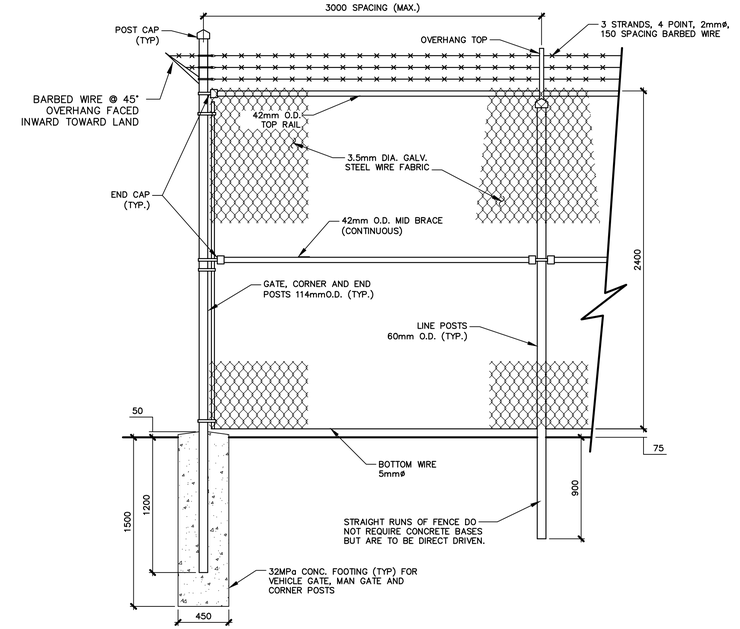
VEHICLE GATE

NOTES:
1. INSTALL CORNER POSTS WHERE CHANGES IN ALIGNMENT EXCEED 10°.
2. INSTALL BRACE BETWEEN END AND GATE POSTS AND NEAREST LINE POST. INSTALL BRACES ON BOTH SIDES OF CORNER AND STRAINING POSTS.
3. INSTALL OVERHANG TOPS AND CAPS.
4. PLACE TENSION BAR BANDS @ 3000 INTERVALS.
5. SECURE FABRIC TO TOP RAILS, LINE POSTS AND BOTTOM TENSION RAIL WITH TIE WIRES AT 450mm INTERVALS.
6. ALL FENCE FABRIC, STEEL FRAMEWORK, GATES AND INSTALLATION TO CONFORM WITH CAN/CGSB-138.1 THROUGH 138.4.
7. POSTS TO BE SCHEDULE 40, HOT DIPPED GALVANIZED STEEL COATED WITH A 3mil ELECTROSTATICALLY APPLIED POLYESTER COATING (BLACK) TO THE FOLLOWING SIZES:

POST DESCRIPTION	O.D.	O.D.
LINE POSTS	60	300
END, GATE, & CNR POSTS	87	400
RAILS	42	N/A

8. GATES TO BE DOUBLE SWING, FRAMED WITH 42 O.D. FRAMING, 2.0mm WALL THICKNESS.
9. PROVIDE CLEARANCES BETWEEN BOTTOM OF FENCE AND GROUND SURFACE OF 150mm.

1 C06 DETAIL— CHAIN LINK FENCE WITH 7.2m DOUBLE-SWING GATE
N.T.S.

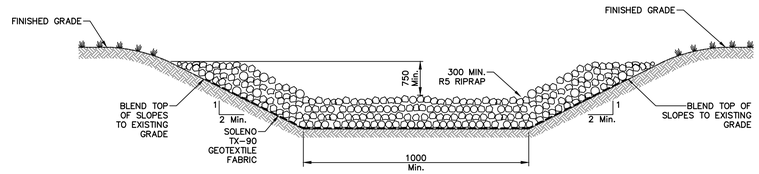


2 C06 DETAIL— 2.4m CHAINLINK FENCE WITH BARBED WIRE
N.T.S.

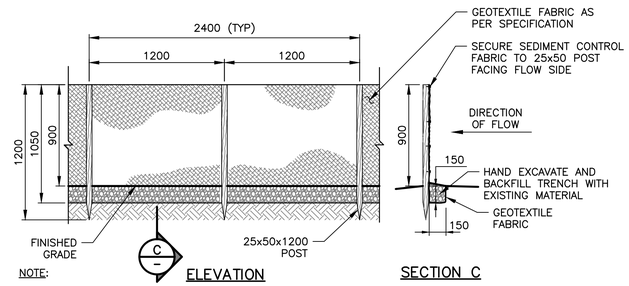
NOTE:

ALL EXCAVATED GROUND MUST BE COVER BY GEOTEXTILE AND 500mm THICK R5 RIPRAP WITHIN 48 HOURS

7 C05 DETAIL— GENERAL EXCAVATION
N.T.S.



3 C06 DETAIL— CHANNEL
1:20

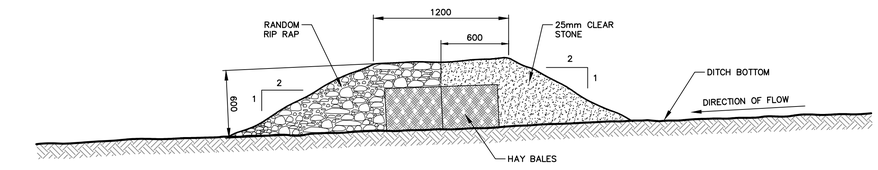


NOTE:
- EROSION CONTROL MEASURES AROUND PERIMETER OF EACH SITE TO INCLUDE SILT FENCE

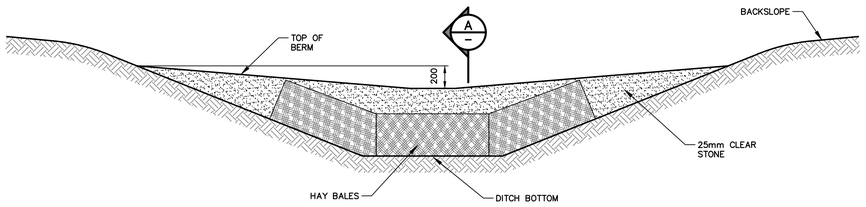
4 C06 DETAIL— SEDIMENT CONTROL FENCE
1:25

ELEVATION

SECTION C

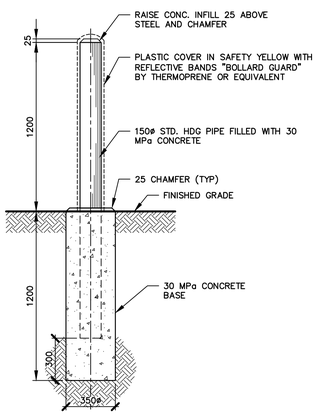


SECTION A

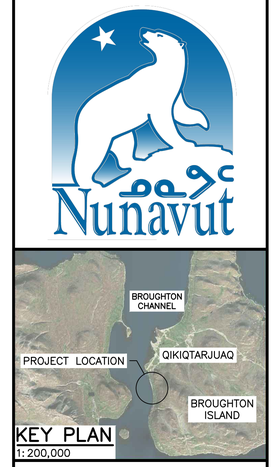


CROSS SECTION

5 C06 DETAIL— SEDIMENT CONTROL BERM
1:25



6 C06 DETAIL— 150ø PROTECTIVE BOLLARD
1:20



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Date 2025-10-23
PERMIT NUMBER: P1441
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No.	Description	Date	By
0	ISSUED FOR TENDER	OCT 23/25	TLM

Revision or Issue

GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTUE

CIVIL

DETAILS

Prime Consultant

CBCL

Sub Consultant

REGISTERED PROFESSIONAL ENGINEER D.D. PARSONS LICENSEE 2025-10-23 NT/NU

CBCL No	Contract No
234414.00	22205.00762
Date NOV.2023	Scale 1:250
Designed TLM	Drawn TLM
Checked DDP	Approved DDP
Sheet No 6 of 6	
Drawing No C06	



LOCATION PLAN
SCALE: 1:2000

GENERAL NOTES:

1. REFER TO THE PROJECT SPECIFICATION DOCUMENT FOR OTHER APPLICABLE CODES, STANDARDS, MATERIALS AND EXECUTION.
2. ALL WORK AND MATERIALS TO CONFORM TO THE NATIONAL BUILDING CODE OF CANADA, 2015.
3. CONTRACTOR TO FIELD VERIFY ALL SITE CONDITIONS PRIOR TO START OF WORK AND REPORT DISCREPANCIES TO CONSULTANT PRIOR TO START OF WORK.
4. NO ALTERATION TO STRUCTURAL DETAILS TO BE MADE WITHOUT THE WRITTEN PERMISSION OF THE CONSULTANT. CONSTRUCTION ERRORS TO BE DOCUMENTED AND REPORTED TO THE CONSULTANT BEFORE PROCEEDING WITH SUBSEQUENT WORK.
5. PERIODIC AND DISCRETIONARY SITE OBSERVATIONS ARE MADE AT THE JOB SITE BY THE CONSULTANT AND ARE NECESSARILY LIMITED IN SCOPE TO OBSERVATION OF WORK IN PROGRESS AT THE TIME OF THE SITE OBSERVATION. THESE SITE OBSERVATIONS DO NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY TO PROVIDE CONTINUOUS ON–SITE SUPERVISION OF ALL STRUCTURAL WORK TO ENSURE THAT BOTH THE INTENT AND THE DETAILS OF THE DRAWINGS AND SPECIFICATIONS ARE BEING FOLLOWED.
6. ALL ELEVATIONS ARE REFERENCED TO CHART DATUM (CD). TO CONVERT FROM CHART DATUM TO CGVD2013, SUBTRACT 1.28m. TO CONVERT FROM CGVD2013 TO CHART DATUM, ADD 1.28m.
7. GRID NORTH REFERS TO THE UNIVERSAL TRANSVERSE MERCATOR PROJECTION COORDINATES, NORTH AMERICAN DATUM 1983, ZONE 20 NORTH.
8. CHART DATUM IS BY INTERNATIONAL AGREEMENT, A PLANE WHICH THE TIDE WILL SELDOM FALL. THE CANADIAN HYDROGRAPHIC SERVICE HAS ADOPTED THE PLANE OF LOWER LOW WATER TIDE (LLWLT) AS THE CHART DATUM. THE RISE, FALL, AND RANGE OF TIDES VARIES DAILY. CONSEQUENTLY, THE CANADIAN TIDE AND CURRENT TABLES, AS ISSUED BY THE CANADIAN HYDROGRAPHIC SERVICE, SHOULD BE CONSULTED FOR THE TIDAL PREDICTIONS AND OTHER TIDAL INFORMATION RELATED TO THE WORK.

TIDAL INFORMATION	
DESCRIPTION	CHART DATUM ELEVATION (m)
HIGHER HIGH WATER LARGE TIDE (HHWLT)	1.5
HIGHER HIGH WATER MEAN TIDE (HHWMT)	1.2
MEAN WATER LEVEL (MWL)	0.8
LOWER LOW WATER MEAN TIDE (LLWMT)	0.3
LOWER LOW WATER LARGE TIDE (LLWLT)	0.0

9. REFER TO GEOTECHNICAL REPORT: GEOTECHNICAL INVESTIGATION QIKIQTARJUAQ MARINE INFRASTRUCTURE NEW DEEP–WATER PORT FACILITY QIKITARJUAQ NU FINAL REPORT DATED DECEMBER 12, 2025, BY ADAPTIVE BASELINE GEOTECHNICAL LTD.

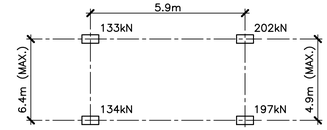
REINFORCED CONCRETE NOTES:

1. ALL CONCRETE, CONCRETE MATERIALS, FORMS, WORKING PROCEDURES AND THE LIKE TO CONFORM TO CSA A23.1, LATEST EDITION.
2. MINIMUM STRENGTH OF CONCRETE AT 28 DAYS AND EXPOSIRE CLASS: 35 MPa / C–1 WITH S–3 EXPOSURE REQUIREMENTS.
3. CONCRETE PROTECTIVE COVER TO REINFORCING STEEL TO BE 75mm UNLESS NOTED OTHERWISE.
4. ALL REINFORCING BARS TO BE ACCURATELY SUPPORTED ON PLASTIC COATED STEEL HIGH CHAIRS TO MAINTAIN EXACT CONCRETE COVER.
5. CONSTRUCTION JOINTS TO BE LOCATED TO MINIMALLY AFFECT STRUCTURE STRENGTH. CONTRACTOR TO SUBMIT PROPOSED CONSTRUCTION JOINTS FOR CONSULTANT APPROVAL. CONSTRUCTION JOINTS TO BE KEYED AND REINFORCEMENT TO BE CONTINUOUS ACROSS CONSTRUCTION JOINTS.
6. ALL REINFORCING STEEL TO CONFORM TO CSA G30.18–M, LATEST EDITION AND HAVE MINIMUM YIELD STRENGTH OF 400 MPa (WELDABLE).
7. PROVIDE MINIMUM CLASS 'B' TENSION LAP TO CSA A23.3, LATEST EDITION AT ALL REINFORCING STEEL SPLICE LOCATION. LOCATE SPLICES SUCH THAT NO MORE THAN FIFTY PERCENT OF REINFORCING BARS ARE SPLICED AT ONE LOCATION.
8. REINFORCING STEEL TO BE CONTINUOUS AT ALL CORNERS UNLESS NOTED OTHERWISE.

DESIGN LOADS:

1. LOADING AND GENERAL DESIGN TO CSA S6–2019, NBCC 2020, AND BRITISH STANDARD 6349–1:2013
2. STORAGE LOADS: 50 kPa
3. CRANE LOADS: MAXIMUM OUTRIGGER LOAD: 202kN

OUTRIGGER LAYOUT:



OUTRIGGER LOADS VARY BASED ON THE POSITION OF THE BOOM AND LIFTED LOAD. THE LOADS SHOWN PERTAIN TO THE SITUATION THAT PRODUCES THE MAXIMUM LOAD POINT.

DESIGN VESSEL PARTICULARS:

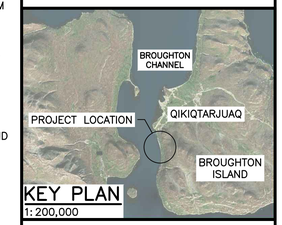
1. FISHING VESSEL
LENGTH: 29.3m
BEAM: 8.0m
DRAFT: 4.1m
DWT: 387 T

2. FACTORY TRAWLER
LENGTH: 83.2m
BEAM: 18.0m
DRAFT: 8.1m
DWT: 3,314 T

3. CARGO VESSEL
LENGTH: 147.0m
BEAM: 22.8m
DRAFT: 8.1m
DWT: 12,167 T

4. BERTHING FORCES: 1194 kN
5. CAISSON BACKFILLING AND FLOATING:
   1. MAXIMUM BACKFILL DIFFERENTIAL BETWEEN INTERIOR CELLS NOT TO EXCEED 3.0 METERS.
   2. MAXIMUM WATER DIFFERENTIAL BETWEEN EXTERIOR AND INTERIOR CAISSON WALLS NOT TO EXCEED 6.1 METRES.
6. MOORING BOLLARD:
   1. MAXIMUM LINE LOAD: 80 TONNES (88 TONS)
7. ARMOUR STONE SCOUR PROTECTION IS DESIGNED FOR PROPELLER WASH FROM DESIGN VESSEL OPERATION "SLOW AHEAD" (ASSUMED 15% MAX APPLIED ENGINE POWER) WHEN BERTHING.
   1. DESIGN ENGINE POWER: 4800kW
   2. DESIGN PROPELLER: 5.8m DIA.

Nunavut



KEY PLAN
1: 200,000

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No.	Description	Date	By
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GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

MARINE

LOCATION PLAN

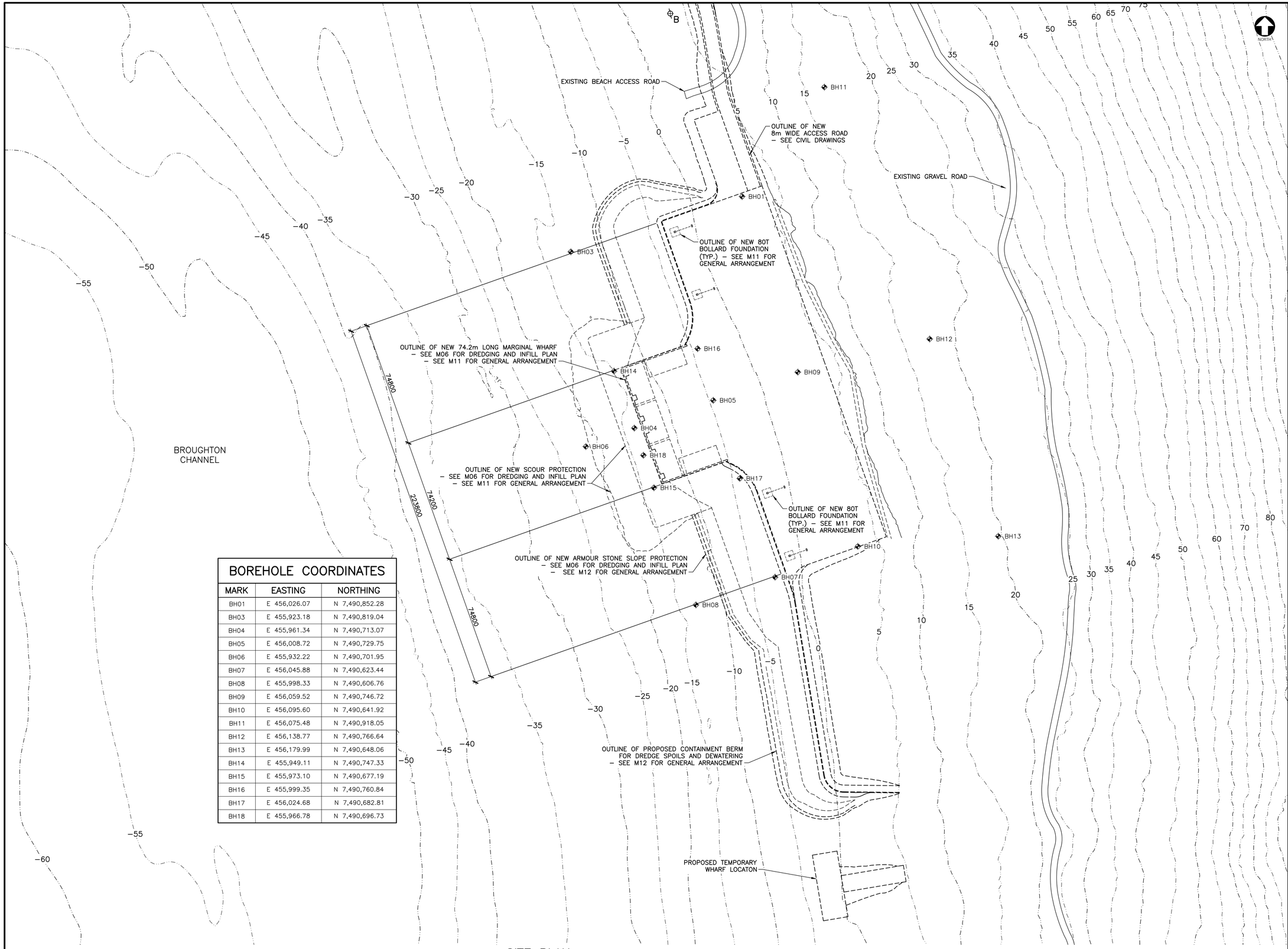
Prime Consultant

CBCL

Sub Consultant

REGISTERED PROFESSIONAL ENGINEER
G.K. PETERS
LICENSEE
10/23/2025
NT/NU

CBCL No	Contract No
234414	22205-00762
Date	Scale
MAR. 2025	AS NOTED
Designed	Drawn
JEF	STG
Checked	Approved
GKP	DDP
Sheet No	
1 of 28	
Drawing No	
M01	

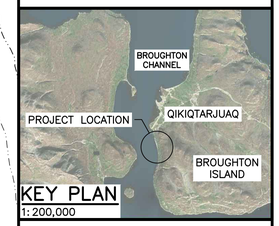


BOREHOLE COORDINATES

MARK	EASTING	NORTHING
BH01	E 456,026.07	N 7,490,852.28
BH03	E 455,923.18	N 7,490,819.04
BH04	E 455,961.34	N 7,490,713.07
BH05	E 456,008.72	N 7,490,729.75
BH06	E 455,932.22	N 7,490,701.95
BH07	E 456,045.88	N 7,490,623.44
BH08	E 455,998.33	N 7,490,606.76
BH09	E 456,059.52	N 7,490,746.72
BH10	E 456,095.60	N 7,490,641.92
BH11	E 456,075.48	N 7,490,918.05
BH12	E 456,138.77	N 7,490,766.64
BH13	E 456,179.99	N 7,490,648.06
BH14	E 455,949.11	N 7,490,747.33
BH15	E 455,973.10	N 7,490,677.19
BH16	E 455,999.35	N 7,490,760.84
BH17	E 456,024.68	N 7,490,682.81
BH18	E 455,966.78	N 7,490,696.73

SITE PLAN – EXISTING CONDITIONS AND BOREHOLE LOCATIONS

SCALE: 1:1000



KEY PLAN
1: 200,000

NOTES:
1. SEE NOTES ON DRAWING M01

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No.	Description	Date	By
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GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

MARINE

EXISTING CONDITIONS AND BOREHOLE PLAN

Prime Consultant

CBCL

Sub Consultant

REGISTERED PROFESSIONAL ENGINEER
G.K. PETERS
LICENSEE
10/23/2025
NT/NU

CBCL No	Contract No
234414	22205-00762
Date: MAR. 2025	Scale: AS NOTED
Designed: JEF	Drawn: STG
Checked: GKP	Approved: DDP
Sheet No: 2 of 28	
Drawing No: M02	

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Telephone: 902-259-2497

BOREHOLE LOG — BH01

PAGE 1 OF 1

CLIENT CBCL Limited
PROJECT NUMBER QIK-G2303
DATE STARTED 2024.05.06 COMPLETED 2024.05.06
DRILLING CONTRACTOR Canadrill Ltd.
DRILLING METHOD Air Rotary
LOGGED BY CFH CHECKED BY LF

PROJECT NAME Qikiqtarjuaq Marine Infrastructure
PROJECT LOCATION Qikiqtarjuaq, NU
GROUND ELEVATION 2.68 m CHART HOLE SIZE 190 mm
NOTES UTM Zone 20W N:7490852.28 E:456026.07

DEPTH (m)	MATERIAL DESCRIPTION	GRAPHIC LOG	USCS	GRADATION DESCRIPTION	SAMPLE NUMBER	SOIL FRACTION (%) GRAVEL	SAND	FINES	MOISTURE CONTENT (%)	RQD (%)
0.00	FILL: Light brown silty SAND			Nbn	1	5	63	33	9	
0.90	Medium brown silty SAND		SM	Nbe	2	6	67	26	17	
3.40	Light brown silty SAND		SM	Nbn	3	7	73	23	8	
4.60	Dark brown sandy SILT		ML	Nbe	4	10	1	41	58	23
6.40	Medium grey poorly-graded SAND with silt and gravel		SP-SM		5					
	- 450 mm boulder									
	- 600 mm boulder			Nbn	6	14	17	72	11	6
11.30	Medium brown silty SAND		SM		7					
					8					
14.63	Borehole Terminated at 14.63 m - Target depth									

● SPT N VALUE ▲ — PL MC LL — ▲ FINES (%) □

CANADRILL SOUTHERN BH LOG QIK2303 CURRENT DRAFT.GPJ GINT STD CANADA.GDT 2024.06.19

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BOREHOLE LOG — BH03

PAGE 1 OF 2

CLIENT CBCL Limited
PROJECT NUMBER QIK-G2303
DATE STARTED 2024.04.29 COMPLETED 2024.04.30
DRILLING CONTRACTOR Logan Drilling
DRILLING METHOD CME 45 Rotary Drill
LOGGED BY MS CHECKED BY LF

PROJECT NAME Qikiqtarjuaq Marine Infrastructure
PROJECT LOCATION Qikiqtarjuaq, NU
GROUND ELEVATION -13.08 m CHART HOLE SIZE HW mm
NOTES UTM Zone 20W N:7490819.04 E:455923.18

DEPTH (m)	MATERIAL DESCRIPTION	GRAPHIC LOG	WATER LEVEL	USCS	TYPE	SAMPLE NUMBER	REC. SOIL (mm) REC. ROCK (%)	N-VALUE RQD (%)	OTHER TESTS
0.00	Compact to very dense grey poorly-graded SAND with silt and gravel to silty SAND			SP-SM	SS	1	0	50/30mm	
					SS	2	230	64	S
1.52	Compact grey poorly-graded SAND with silt and gravel			SP-SM	SS	3	300	26	S
					SS	4	330	18	
4.60					SS	5	400	29	
5.18	Very loose SAND with silt			SP	SS	6	200	2	S
	Compact grey silty SAND - trace gravel				SS	7	600	15	
				SM	SS	8	360	39	
					SS	9	360	37	
9.17					SS	10	0	10	
9.22	Very dense grey SAND with gravel to silty SAND with gravel - trace silt - frequent cobbles								
					SS	11	280	54	
					SS	12	300	59	
					SS	13	330	87	S
				SWG					
					SS	14	250	50/110mm	>>
					SS	15	0	50/100mm	>>
32.38					RC	16	28%	0%	

● SPT N VALUE ● — PL MC LL

(Continued Next Page)

CANADRILL SOUTHERN BH LOG QIK2303 CURRENT DRAFT.GPJ GINT STD CANADA.GDT 2024.06.19

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BOREHOLE LOG — BH03

PAGE 2 OF 2

CLIENT CBCL Limited
PROJECT NUMBER QIK-G2303

PROJECT NAME Qikiqtarjuaq Marine Infrastructure
PROJECT LOCATION Qikiqtarjuaq, NU

DEPTH (m)	MATERIAL DESCRIPTION	GRAPHIC LOG	WATER LEVEL	USCS	TYPE	SAMPLE NUMBER	REC. SOIL (mm) REC. ROCK (%)	N-VALUE RQD (%)	OTHER TESTS
	Very poor to good quality grey granite: BEDROCK - some silt infilling between fractures *(continued)*				RC	17	100%	81%	
					RC	18	55%	27%	
					RC	19	79%	44%	
					RC	20	100%	53%	
39.32					RC	21	88%	68%	
	Borehole Terminated at 26.24 m - Target depth								

● SPT N VALUE ● — PL MC LL

CANADRILL SOUTHERN BH LOG QIK2303 CURRENT DRAFT.GPJ GINT STD CANADA.GDT 2024.06.19

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BOREHOLE LOG — BH04

PAGE 1 OF 1

CLIENT CBCL Limited
PROJECT NUMBER QIK-G2303
DATE STARTED 2024.04.26 COMPLETED 2024.04.27
DRILLING CONTRACTOR Logan Drilling
DRILLING METHOD CME 45 Rotary Drill
LOGGED BY MS CHECKED BY LF

PROJECT NAME Qikiqtarjuaq Marine Infrastructure
PROJECT LOCATION Qikiqtarjuaq, NU
GROUND ELEVATION -13.96 m CHART HOLE SIZE HW mm
NOTES UTM Zone 20W N:7490713.07 E:455961.34

DEPTH (m)	MATERIAL DESCRIPTION	GRAPHIC LOG	WATER LEVEL	USCS	TYPE	SAMPLE NUMBER	REC. SOIL (mm) REC. ROCK (%)	N-VALUE RQD (%)	OTHER TESTS
0.00	Compact to dense grey poorly-graded SAND with silt and gravel			SP-SM	SS	1	300	32	
					SS	2	460	28	
					SS	3	410	28	
					SS	4	610	46	S
					SS	5	230	37	
18.53	Very loose grey sandy SILT - with shell fragments			MLS	SS	6	680	2	S
19.76	Very dense grey SAND with gravel to silty SAND - occasional cobbles and boulders				SS	7	480	54	
					SS	8	280	57	
					SS	9	610	63	S
				SM	SS	10	380	76	
	- 300 mm cobble - 760 mm boulder - 225 mm cobble				SS	11	380	62/80mm	>>
					SS	12	300	88/110mm	>>
	- 2 x 80 mm cobbles				SS	13	0	60/130mm	>>
30.09	Borehole Terminated at 16.13 m - Target depth								

● SPT N VALUE ● — PL MC LL

CANADRILL SOUTHERN BH LOG QIK2303 CURRENT DRAFT.GPJ GINT STD CANADA.GDT 2024.06.19

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BOREHOLE LOG — BH05

PAGE 1 OF 2

CLIENT CBCL Limited
PROJECT NUMBER QIK-G2303
DATE STARTED 2024.04.27 COMPLETED 2024.04.28
DRILLING CONTRACTOR Logan Drilling
DRILLING METHOD CME 45 Rotary Drill
LOGGED BY CFH CHECKED BY LF

PROJECT NAME Qikiqtarjuaq Marine Infrastructure
PROJECT LOCATION Qikiqtarjuaq, NU
GROUND ELEVATION -4.11 m CHART HOLE SIZE HW mm
NOTES UTM Zone 20W N:7490729.75 E:456008.72

DEPTH (m)	MATERIAL DESCRIPTION	GRAPHIC LOG	WATER LEVEL	USCS	TYPE	SAMPLE NUMBER	REC. SOIL (mm) REC. ROCK (%)	N-VALUE RQD (%)	OTHER TESTS
0.00	Compact to very dense grey silty SAND - some gravel			SM	SS	1	200	15	
					SS	2	250	35	S
					SS	3	150	23	
					SS	4	330	50/80mm	>>
					SS	5	460	83	S
					SS	6	280	52	
					SS	7	100	19	
12.57					SS	8	100	18	
	Compact to very dense brown silty SAND -some gravel			SM	SS	9	0	37	
					SS	10	0	102	>>
					SS	11	0	85	
					SS	12	0	50/60mm	S >>
					SS	13	0	50/80mm	>>
21.64	Compact to very dense grey silty SAND - occasional cobbles - 250 mm cobble			SM	SS	14	410	50/60mm	>>

● SPT N VALUE ● — PL MC LL

(Continued Next Page)

CANADRILL SOUTHERN BH LOG QIK2303 CURRENT DRAFT.GPJ GINT STD CANADA.GDT 2024.06.19

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BOREHOLE LOG — BH05

PAGE 2 OF 2

CLIENT CBCL Limited
PROJECT NUMBER QIK-G2303

PROJECT NAME Qikiqtarjuaq Marine Infrastructure
PROJECT LOCATION Qikiqtarjuaq, NU

DEPTH (m)	MATERIAL DESCRIPTION	GRAPHIC LOG	WATER LEVEL	USCS	TYPE	SAMPLE NUMBER	REC. SOIL (mm) REC. ROCK (%)	N-VALUE RQD (%)	OTHER TESTS
	Compact to very dense grey silty SAND - occasional cobbles *(continued)*								
				SM	SS	15	0	50/80mm	>>
	- 2 x 75 mm cobbles				SS	16	0	72/80mm	>>
31.13	Very poor to good quality, slightly weathered grey granite: BEDROCK - some silt infilling between fractures				RC	17	0	60/100mm	>>
					RC	18	66%	0%	
					RC	19	82%	77%	
					RC	20	83%	0%	
					RC	21	117%	74%	
35.30					RC	22	95%	43%	
	Borehole Terminated at 31.19 m - Target depth								

● SPT N VALUE ● — PL MC LL

CANADRILL SOUTHERN BH LOG QIK2303 CURRENT DRAFT.GPJ GINT STD CANADA.GDT 2024.06.19

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BOREHOLE LOG — BH06

PAGE 1 OF 1

CLIENT CBCL Limited
PROJECT NUMBER QIK-G2303
DATE STARTED 2024.04.28 COMPLETED 2024.04.28
DRILLING CONTRACTOR Logan Drilling
DRILLING METHOD CME 45 Rotary Drill
LOGGED BY MS CHECKED BY LF

PROJECT NAME Qikiqtarjuaq Marine Infrastructure
PROJECT LOCATION Qikiqtarjuaq, NU
GROUND ELEVATION -20.99 m CHART HOLE SIZE HW mm
NOTES UTM Zone 20W N:7490701.95 E:455932.22

DEPTH (m)	MATERIAL DESCRIPTION	GRAPHIC LOG	WATER LEVEL	USCS	TYPE	SAMPLE NUMBER	REC. SOIL (mm) REC. ROCK (%)	N-VALUE RQD (%)	OTHER TESTS
0.00	Loose to very dense medium brown silty SAND - some gravel			SM	SS	1	130	7	S
					SS	2	150	11	
					SS	3	0	14	
					SS	4	250	37	S
	- 175 mm cobble - 250 mm cobble - 2 x 85 mm cobbles				SS	5	200	50/30mm	>>
25.31	Compact to very dense medium brown silty SAND with gravel			SW	SS	6	200	39	
					SS	7	300	26	S
	- 2 x 85 mm cobbles				SS	8	280	16	
					SS	9	150	56	
30.87					SS	10		35	
	Borehole Terminated at 9.88 m - Target depth								

● SPT N VALUE ● — PL MC LL

CANADRILL SOUTHERN BH LOG QIK2303 CURRENT DRAFT.GPJ GINT STD CANADA.GDT 2024.06.19

Adaptive Baseline Geotechnical
17 Industrial Way
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BOREHOLE LOG — BH07

PAGE 1 OF 1

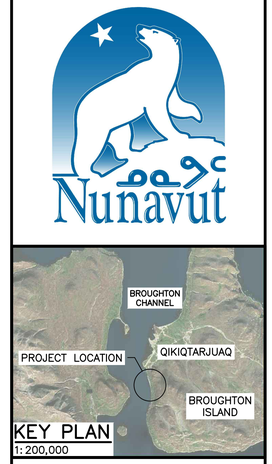
CLIENT CBCL Limited
PROJECT NUMBER QIK-G2303
DATE STARTED 2024.04.24 COMPLETED 2024.04.25
DRILLING CONTRACTOR Logan Drilling
DRILLING METHOD CME 45 Rotary Drill
LOGGED BY MS CHECKED BY LF

PROJECT NAME Qikiqtarjuaq Marine Infrastructure
PROJECT LOCATION Qikiqtarjuaq, NU
GROUND ELEVATION -2.04 m CHART HOLE SIZE HW mm
NOTES UTM Zone 20W N:7490623.44 E:456045.88

DEPTH (m)	MATERIAL DESCRIPTION	GRAPHIC LOG	WATER LEVEL	USCS	TYPE	SAMPLE NUMBER	REC. SOIL (mm) REC. ROCK (%)	N-VALUE RQD (%)	OTHER TESTS
0.00	Very dense grey well-graded SAND with silt and gravel			SW	SS	1	360	142	
					SS	2	380	76	S
					SS	3	510	43	
					SS	4	330	80	
8.16	- 500 mm boulder								
	Dense grey-brown SAND with gravel			SW	SS	5	360	38	
9.69	Compact brown SAND with gravel			SW	SS	6	180	21	
11.21	Loose brown poorly-graded GRAVEL with silt and sand			GP-GM	SS	7	180	6	S
12.73	Loose grey silty SAND with gravel			SM	SS	8	280	4	S
14.26	Compact to very dense grey SAND with gravel - 500 mm boulder			SW	SS	9	130	50/80mm	>>
17.91	Borehole Terminated at 15.87 m - Target depth				SS	10	610	16	

● SPT N VALUE ● — PL MC LL

CANADRILL SOUTHERN BH LOG QIK2303 CURRENT DRAFT.GPJ GINT STD CANADA.GDT 2024.06.19



NOTES:
1. SEE NOTES ON DRAWING M01

No.	Description	Date	By
0	ISSUED FOR TENDER	OCT 23/25	JEF

Revision or Issue

PERMIT TO PRACTICE
CBCL Limited
Signature
Date 2025-10-24
PERMIT NUMBER: P1441
NT/NU Association of Professional Engineers and Geoscientists

GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

MARINE

BOREHOLE LOGS 1 OF 3

Prime Consultant

CBCL

Sub Consultant

CBCL No 234414	Contract No 22205-00762
Date MAR. 2025	Scale AS NOTED
Designed JEF	Drawn STG
Checked GKP	Approved DDP
Sheet No 3 of 28	
Drawing No M03	

BOREHOLE LOG — BH08

PAGE 1 OF 1

Adaptive Baseline Geotechnical
17 Industrial Way
Elmsdale, NS B2S 2L6
Telephone: 902-259-2497

CLIENT CBCL Limited
PROJECT NUMBER QIK-G2303
DATE STARTED 2024.04.25 COMPLETED 2024.04.25
DRILLING CONTRACTOR Logan Drilling
DRILLING METHOD CME 45 Rotary Drill
LOGGED BY CFH CHECKED BY LF

PROJECT NAME Qikiqtarjuaq Marine Infrastructure
PROJECT LOCATION Qikiqtarjuaq, NU
GROUND ELEVATION -12.67 m CHART HOLE SIZE HW mm
NOTES UTM Zone 20W N:7490606.76 E:455998.33

DEPTH (m)	MATERIAL DESCRIPTION	GRAPHIC LOG	WATER LEVEL	USCS	TYPE	SAMPLE NUMBER	REC. SOIL (mm) / REC. ROCK (%)	N-VALUE RQD (%)	OTHER TESTS	SPT N VALUE (PL, MC, LL)
0	Dense to very dense dark grey silty SAND with gravel - some shell fragments			SM	SS	1	280	34		
					SS	2	410	77		
1.41										
2	Loose to dense medium brown silty SAND - some gravel - 90 mm cobble				SS	3	360	42		
3	- 115 mm cobble				SS	4	430	33		
4					SS	5	380	13		
5					SS	6	360	23		
6	- 2 X 80 mm cobbles - 200 mm cobble									
7					SS	7	300	8		
8					SS	8	360	10		
9	1.86 - 350 mm boulder									
10	2.68 Very dense dark grey GRAVEL with sand			GW	SS	9	410	96		
	Borehole Terminated at 10.01 m - Target depth									

CANDRILL BH/TP LOG QIK2303 CURRENT DRAFT.GPJ GINT STD CANADA.GDT 2024.06.19

BOREHOLE LOG — BH09

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Adaptive Baseline Geotechnical
17 Industrial Way
Elmsdale, NS B2S 2L6
Telephone: 902-259-2497

CLIENT CBCL Limited
PROJECT NUMBER QIK-G2303
DATE STARTED 2024.05.05 COMPLETED 2024.05.05
DRILLING CONTRACTOR Canadrill Ltd.
DRILLING METHOD Air Rotary
LOGGED BY CFH CHECKED BY LF

PROJECT NAME Qikiqtarjuaq Marine Infrastructure
PROJECT LOCATION Qikiqtarjuaq, NU
GROUND ELEVATION 2.18 m CHART HOLE SIZE 190 mm
NOTES UTM Zone 20W N:7490746.72 E:456059.52

DEPTH (m)	MATERIAL DESCRIPTION	GRAPHIC LOG	USCS	GROUND ICE DESCRIPTION	SAMPLE NUMBER	SALINITY (ppt)	SOIL FRACTION (%) GRAVEL	SAND	FINES	MOISTURE CONTENT (%)	RQD (%)	SPT N VALUE (PL, MC, LL) / % FINES
0	Medium brown silty SAND with gravel to silty SAND		SM	Nbe	1	3	15	71	14	14		
				Nbe	2	5	3	80	17	11		
2.10												
	Light brown to light grey silty SAND				3							
				Nbe	4	4	7	79	14	12		
					5							
	- 300 mm boulder		SM		6							
					7							
13.40	Sandy SILT		ML		8							
14.94					9							
	Borehole Terminated at 14.94 m - Target depth											

CANDRILL BH/TP LOG QIK2303 CURRENT DRAFT.GPJ GINT STD CANADA.GDT 2024.06.19

BOREHOLE LOG — BH10

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Adaptive Baseline Geotechnical
17 Industrial Way
Elmsdale, NS B2S 2L6
Telephone: 902-259-2497

CLIENT CBCL Limited
PROJECT NUMBER QIK-G2303
DATE STARTED 2024.05.06 COMPLETED 2024.05.06
DRILLING CONTRACTOR Canadrill Ltd.
DRILLING METHOD Air Rotary
LOGGED BY CFH CHECKED BY LF

PROJECT NAME Qikiqtarjuaq Marine Infrastructure
PROJECT LOCATION Qikiqtarjuaq, NU
GROUND ELEVATION 2.76 m CHART HOLE SIZE 190 mm
NOTES UTM Zone 20W N:7490641.92 E:456095.6

DEPTH (m)	MATERIAL DESCRIPTION	GRAPHIC LOG	USCS	GROUND ICE DESCRIPTION	SAMPLE NUMBER	SALINITY (ppt)	SOIL FRACTION (%) GRAVEL	SAND	FINES	MOISTURE CONTENT (%)	RQD (%)	SPT N VALUE (PL, MC, LL) / % FINES
0	Medium brown silty SAND with gravel - 75 mm ice layer - 450 mm boulder		SM	Nbe	1	0	23	64	13	21		
2.10												
	Dark grey silty SAND with gravel to silty SAND		SM	Nbe	2	4	6	71	23	12		
4.00												
	Medium brown silty SAND		SM	Nbe	3	5	2	65	33	19		
					4							
6.20				Nbe	5	6	6	72	22	15		
	Light grey silty SAND				6							
			SM	Nbe	7	5	1	87	12	28		
12.20	Light brown silty SAND				8							
14.63			SM		9							
	Borehole Terminated at 14.63 m - Target depth											

CANDRILL BH/TP LOG QIK2303 CURRENT DRAFT.GPJ GINT STD CANADA.GDT 2024.06.19

BOREHOLE LOG — BH11

PAGE 1 OF 1

Adaptive Baseline Geotechnical
17 Industrial Way
Elmsdale, NS B2S 2L6
Telephone: 902-259-2497

CLIENT CBCL Limited
PROJECT NUMBER QIK-G2303
DATE STARTED 2024.05.07 COMPLETED 2024.05.07
DRILLING CONTRACTOR Canadrill Ltd.
DRILLING METHOD Air Rotary
LOGGED BY CFH CHECKED BY LF

PROJECT NAME Qikiqtarjuaq Marine Infrastructure
PROJECT LOCATION Qikiqtarjuaq, NU
GROUND ELEVATION 17 m CHART HOLE SIZE 190 mm
NOTES UTM Zone 20W N:7490918.05 E:456075.48

DEPTH (m)	MATERIAL DESCRIPTION	GRAPHIC LOG	USCS	GROUND ICE DESCRIPTION	SAMPLE NUMBER	SALINITY (ppt)	SOIL FRACTION (%) GRAVEL	SAND	FINES	MOISTURE CONTENT (%)	RQD (%)	SPT N VALUE (PL, MC, LL) / % FINES
0.05	Dark brown ROOTMAT/Topsoil											
	Light brown silty SAND - frequent cobbles		SM	Nbn	1	5	8	66	26	9		
3.40					2							
	Medium brown silty SAND		SM	Nbe	3	5	5	70	25	11		
7.60	- 450 mm boulder											
	Light brown silty SAND - 150 mm cobble - 450 mm boulder - 300 mm boulder - 450 mm boulder		SM		4 5 6 7							
14.63	Borehole Terminated at 14.63 m - Target depth											

CANDRILL BH/TP LOG QIK2303 CURRENT DRAFT.GPJ GINT STD CANADA.GDT 2024.06.19

BOREHOLE LOG — BH12

PAGE 1 OF 1

Adaptive Baseline Geotechnical
17 Industrial Way
Elmsdale, NS B2S 2L6
Telephone: 902-259-2497

CLIENT CBCL Limited
PROJECT NUMBER QIK-G2303
DATE STARTED 2024.05.08 COMPLETED 2024.05.08
DRILLING CONTRACTOR Canadrill Ltd.
DRILLING METHOD Air Rotary
LOGGED BY CFH CHECKED BY LF

PROJECT NAME Qikiqtarjuaq Marine Infrastructure
PROJECT LOCATION Qikiqtarjuaq, NU
GROUND ELEVATION 18.39 m CHART HOLE SIZE 190 mm
NOTES UTM Zone 20W N:7490766.64 E:456138.77

DEPTH (m)	MATERIAL DESCRIPTION	GRAPHIC LOG	USCS	GROUND ICE DESCRIPTION	SAMPLE NUMBER	SALINITY (ppt)	SOIL FRACTION (%) GRAVEL	SAND	FINES	MOISTURE CONTENT (%)	RQD (%)	SPT N VALUE (PL, MC, LL) / % FINES
0.08	Dark brown ROOTMAT/Topsoil											
	Light brown silty SAND with gravel - frequent cobbles		SP	Nbn	1	0	26	52	22	7		
					2							
4.30												
	Light brown silty SAND		SM	Nbe	3	6	3	54	43	20		
					4							
7.60												
	Light brown silty SAND - 300 mm boulder - 450 mm boulder - 300 mm boulder - 150 mm cobble - 750 mm boulder		SM	Nbn	5	0	4	77	19	5		
	- 150 mm cobble				6							
14.63	Borehole Terminated at 14.63 m - Target depth											

CANDRILL BH/TP LOG QIK2303 CURRENT DRAFT.GPJ GINT STD CANADA.GDT 2024.06.19

BOREHOLE LOG — BH13

PAGE 1 OF 1

Adaptive Baseline Geotechnical
17 Industrial Way
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CLIENT CBCL Limited
PROJECT NUMBER QIK-G2303
DATE STARTED 2024.05.07 COMPLETED 2024.05.07
DRILLING CONTRACTOR Canadrill Ltd.
DRILLING METHOD Air Rotary
LOGGED BY CFH CHECKED BY LF

PROJECT NAME Qikiqtarjuaq Marine Infrastructure
PROJECT LOCATION Qikiqtarjuaq, NU
GROUND ELEVATION 19.62 m CHART HOLE SIZE 190 mm
NOTES UTM Zone 20W N:7490648.06 E:456179.99

DEPTH (m)	MATERIAL DESCRIPTION	GRAPHIC LOG	USCS	GROUND ICE DESCRIPTION	SAMPLE NUMBER	SALINITY (ppt)	SOIL FRACTION (%) GRAVEL	SAND	FINES	MOISTURE CONTENT (%)	RQD (%)	SPT N VALUE (PL, MC, LL) / % FINES
0.05	Dark brown ROOTMAT/Topsoil											
	Light brown silty SAND - frequent cobbles - 300 mm boulder		SM	Nbe	1	0	5	68	27	27		
4.60												
	Grey to light brown silty SAND		SM	Nbe	2	0	4	70	26	13		
					3							
8.20				Nbe	4	4	3	60	37	14		
	Light brown GRAVEL with sand		GP		5							
9.50												
	Dark grey silty SAND with gravel - 750 mm boulder		SP-SM	Nbe	6	12	17	68	15	11		
					7							
14.63	Borehole Terminated at 14.63 m - Target depth											

CANDRILL BH/TP LOG QIK2303 CURRENT DRAFT.GPJ GINT STD CANADA.GDT 2024.06.19

BOREHOLE LOG — BH14

PAGE 1 OF 1

Adaptive Baseline Geotechnical
17 Industrial Way
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Telephone: 902-259-2497

CLIENT CBCL Limited
PROJECT NUMBER QIK-G2303
DATE STARTED 2024.04.28 COMPLETED 2024.04.29
DRILLING CONTRACTOR Logan Drilling
DRILLING METHOD CME 45 Rotary Drill
LOGGED BY MS CHECKED BY LF

PROJECT NAME Qikiqtarjuaq Marine Infrastructure
PROJECT LOCATION Qikiqtarjuaq, NU
GROUND ELEVATION -13.45 m CHART HOLE SIZE HW mm
NOTES UTM Zone 20W N:7490747.33 E:455949.11

DEPTH (m)	MATERIAL DESCRIPTION	GRAPHIC LOG	WATER LEVEL	USCS	TYPE	SAMPLE NUMBER	REC. SOIL (mm) / REC. ROCK (%)	N-VALUE RQD (%)	OTHER TESTS	SPT N VALUE (PL, MC, LL)
0	Dense to very dense grey poorly-graded SAND with silt and gravel			SP-SM	SS	1	280	34	S	
1.49					SS	2	250	61		
	Loose to compact grey silty SAND				SS	3	360	27	S	
				SM	SS	4	280	27		
					SS	5	530	28		
					SS	6	300	9		
	- 610 mm boulder									
7.80	Compact grey sandy SILT - some cobbles			ML	SS	7	200	17	S	
8.73										
	Very dense grey SAND with gravel - some cobbles			SW	SS	8	180	50/30mm		>>
					SS	9	180	73/130mm		>>
					SS	10	0	50/80mm		>>
					SS	11	180	50/110mm		>>
					SS	12	300	60/130mm		>>
28.92	Borehole Terminated at 15.47 m - Target depth									

CANDRILL SOUTHERN BH LOG QIK2303 CURRENT DRAFT.GPJ GINT STD CANADA.GDT 2024.06.19

BOREHOLE LOG — BH15

PAGE 1 OF 1

Adaptive Baseline Geotechnical
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Telephone: 902-259-2497

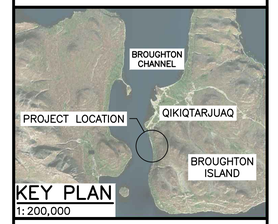
CLIENT CBCL Limited
PROJECT NUMBER QIK-G2303
DATE STARTED 2024.04.26 COMPLETED 2024.04.26
DRILLING CONTRACTOR Logan Drilling
DRILLING METHOD CME 45 Rotary Drill
LOGGED BY MS CHECKED BY LF

PROJECT NAME Qikiqtarjuaq Marine Infrastructure
PROJECT LOCATION Qikiqtarjuaq, NU
GROUND ELEVATION -13.12 m CHART HOLE SIZE HW mm
NOTES UTM Zone 20W N:7490677.19 E:455973.1

DEPTH (m)	MATERIAL DESCRIPTION	GRAPHIC LOG	WATER LEVEL	USCS	TYPE	SAMPLE NUMBER	REC. SOIL (mm) / REC. ROCK (%)	N-VALUE RQD (%)	OTHER TESTS	SPT N VALUE (PL, MC, LL)
0	Compact to dense dark grey silty SAND with gravel - some shells			SM	SS	1	130	43		
					SS	2	560	49		
	- 75 mm cobble - 75 mm cobble				SS	3	360	43		
1.86					SS	4	0	23		
	Loose dark grey silty SAND			SM	SS	5	560	4	S	
4.04										
	- 100 mm cobble Compact to very dense medium brown SAND with gravel to silty SAND -				SS	6	250	41		
					SS	7	0	45		
	- 250 mm cobble			SW	SS	8	150	50/80mm		>>
					SS	9	560	46		
					SS	10	200	21		
5.13	Very dense grey SAND with gravel to silty SAND - some gravel - 75 mm cobble			SP	SS	11	150	50/60mm		>>
					SS	12	0	50/50mm		>>
8.74	- 250 mm cobble - 75 mm cobble - 75 mm cobble				SS	13	0	68		
	Borehole Terminated at 15.82 m - Target depth									

CANDRILL SOUTHERN BH LOG QIK2303 CURRENT DRAFT.GPJ GINT STD CANADA.GDT 2024.06.19

Nunavut



KEY PLAN
1: 200,000

NOTES:
1. SEE NOTES ON DRAWING M01

No.	Description	Date	By
0	ISSUED FOR TENDER	OCT 23/25	JEF

Revision or Issue

PERMIT TO PRACTICE
CBCL Limited
Signature
Date 2025-10-24
PERMIT NUMBER: P1441
NT/NU Association of Professional Engineers and Geoscientists

GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

MARINE

BOREHOLE LOGS 2 OF 3

Prime Consultant

CBCL

Sub Consultant

CBCL No 234414	Contract No 22205-00762
Date MAR. 2025	Scale AS NOTED
Designed JEF	Drawn STG
Checked GKP	Approved DDP
Sheet No 4 of 28	
Drawing No M04	

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CBCL-610x914 TITLE SHEET (ARCH D)

Adaptive Baseline Geotechnical
17 Industrial Way
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Telephone: 902-259-2497

BOREHOLE LOG — BH16

PAGE 1 OF 1

CLIENT CBCL Limited
PROJECT NUMBER QIK-G2303
DATE STARTED 2024.04.29 **COMPLETED** 2024.04.29
DRILLING CONTRACTOR Logan Drilling
DRILLING METHOD CME 45 Rotary Drill
LOGGED BY CFH **CHECKED BY** LF

PROJECT NAME Qikiqtarjuaq Marine Infrastructure
PROJECT LOCATION Qikiqtarjuaq, NU
GROUND ELEVATION -4.33 m CHART **HOLE SIZE** HW mm
NOTES UTM Zone 20W N:7490760.84 E:455999.35

DEPTH (m)	MATERIAL DESCRIPTION	GRAPHIC LOG	WATER LEVEL	USCS	TYPE	SAMPLE NUMBER	REC. SOIL (mm) REC. ROCK (%)	N-VALUE RQD (%)	OTHER TESTS	SPT N VALUE (20 40 60 80; PL MC LL)
-4.48	Compact dark grey silty SAND			SM	SS	1	410	18		
1	Compact to very dense medium brown SAND with silt and gravel				SS	3	0	50/130mm		
					SS	2	530	52		
2	- 0.450 mm boulder - 3 x 75 mm cobbles			SW-SM						
3	- 0.350 mm boulder - frequent cobbles									
4										
-5.13										
5	Loose to compact medium brown silty SAND - some gravel			SM	SS	4	280	18		
6					SS	5	200	7	S	
-10.88										
7	Compact medium brown silty SAND			SM	SS	6	0	16		
-12.10					SS	7	460	11	S	
8	Loose medium brown silty SAND with gravel									
9					SS	8	360	7	S	
-14.16										
10	Loose to very dense medium brown silty SAND with gravel			SM	SS	9	0	43		
11										
12	- some small cobbles				SS	10	50	6		
13										
14	- 400 mm boulder - 150 mm cobble				SS	11	200	14		
15	- 300 mm cobble				SS	12	230	50/80mm		
16										
-20.64					SS	13	0	50/60mm		
17	Borehole Terminated at 16.3 m - Target depth									
18										
19										
20										

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17 Industrial Way
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Telephone: 902-259-2497

BOREHOLE LOG — BH17

PAGE 1 OF 1

CLIENT CBCL Limited
PROJECT NUMBER QIK-G2303
DATE STARTED 2024.04.25 **COMPLETED** 2024.04.26
DRILLING CONTRACTOR Logan Drilling
DRILLING METHOD CME 45 Rotary Drill
LOGGED BY MS **CHECKED BY** LF

PROJECT NAME Qikiqtarjuaq Marine Infrastructure
PROJECT LOCATION Qikiqtarjuaq, NU
GROUND ELEVATION -3.69 m CHART **HOLE SIZE** HW mm
NOTES UTM Zone 20W N:7490682.81 E:456024.68

DEPTH (m)	MATERIAL DESCRIPTION	GRAPHIC LOG	WATER LEVEL	USCS	TYPE	SAMPLE NUMBER	REC. SOIL (mm) REC. ROCK (%)	N-VALUE RQD (%)	OTHER TESTS	SPT N VALUE (20 40 60 80; PL MC LL)
	Compact to very dense grey SAND with gravel			SW	SS	1	430	23		
1					SS	2	360	54		
					SS	3	610	57		
2					SS	4	280	50		
-6.74					SS	5	610	102		
3	Loose to compact grey well-graded SAND with silt									
4										
5					SS	6	410	29	S	
-11.00										
6	Loose grey silty SAND - Occasional cobbles			SM	SS	7	200	14		
7										
8					SS	8	200	9		
-13.44										
9	Very dense grey SAND with gravel - 380 mm boulder				SS	9	230	5	S	
10										
11	- 560 mm boulder				SS	10	510	71		
12										
13	- Occasional cobbles			SW	SS	11	530	62/60mm		
14										
15										
-19.01					SS	12	230	50/80mm		
16	Borehole Terminated at 15.32 m - Target depth									
17										
18										
19										
20										

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Telephone: 902-259-2497

BOREHOLE LOG — BH18

PAGE 1 OF 2

CLIENT CBCL Limited
PROJECT NUMBER QIK-G2303
DATE STARTED 2024.04.30 **COMPLETED** 2024.05.01
DRILLING CONTRACTOR Logan Drilling
DRILLING METHOD CME 45 Rotary Drill
LOGGED BY CFH **CHECKED BY** LF

PROJECT NAME Qikiqtarjuaq Marine Infrastructure
PROJECT LOCATION Qikiqtarjuaq, NU
GROUND ELEVATION -13.57 m CHART **HOLE SIZE** HW mm
NOTES UTM Zone 20W N:7490696.73 E:455966.78

DEPTH (m)	MATERIAL DESCRIPTION	GRAPHIC LOG	WATER LEVEL	USCS	TYPE	SAMPLE NUMBER	REC. SOIL (mm) REC. ROCK (%)	N-VALUE RQD (%)	OTHER TESTS	SPT N VALUE (20 40 60 80; PL MC LL)
	medium brown silty GRAVEL with sand to silty SAND with gravel			GP-GM	SS	1	200	45		
1					SS	2	460	89		
					SS	3	250	57		
2					SS	4	410	75		
-16.64										
3	Compact dark grey silty SAND			SP-SM	SS	5	430	11		
4					SS	6	410	13		
5										
6					SS	7	360	30		
-20.17										
7	Very dense medium brown to grey silty SAND with gravel - frequent cobbles - ocassional boulders - 150 mm cobble - 125 mm cobble				SS	8	300	39		
8										
9	- 575 mm boulder				SS	9	30	50/100mm		
10										
11										
12										
13				SM						
14										
15										
16										
17										
18										
19										
20										

(Continued Next Page)

Adaptive Baseline Geotechnical
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BOREHOLE LOG — BH18

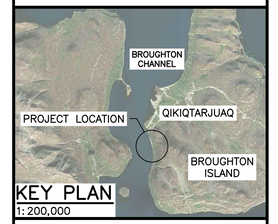
PAGE 2 OF 2

CLIENT CBCL Limited
PROJECT NUMBER QIK-G2303

PROJECT NAME Qikiqtarjuaq Marine Infrastructure
PROJECT LOCATION Qikiqtarjuaq, NU

DEPTH (m)	MATERIAL DESCRIPTION	GRAPHIC LOG	WATER LEVEL	USCS	TYPE	SAMPLE NUMBER	REC. SOIL (mm) REC. ROCK (%)	N-VALUE RQD (%)	OTHER TESTS	SPT N VALUE (20 40 60 80; PL MC LL)
21	Very dense medium brown to grey silty SAND with gravel - frequent cobbles - ocassional boulders *(continued)* - 75 mm cobble - 175 mm cobble - clayey sand with gravel sampled - 150 mm cobble			SM						
22										
23										
-37.57										
24	Very poor to good quality grey granite: BEDROCK - some silt infilling between fractures				RC	10	100%	85%		
25					RC	11	54%	19%		
26										
27					RC	12	77%	41%		
28										
29					RC	13	64%	0%		
30										
-43.95					RC	14	79%	27%		
31	Borehole Terminated at 30.38 m - Target depth									
32										
33										
34										
35										
36										
37										
38										
39										
40										
41										
42										

Nunavut



KEY PLAN
1: 200,000

NOTES:
1. SEE NOTES ON DRAWING M01

No.	Description	Date	By
0	ISSUED FOR TENDER	OCT 23/25	JEF

Revision or Issue

PERMIT TO PRACTICE
CBCL Limited
Signature
Date 2025-10-24
PERMIT NUMBER: P1441
NT/NU Association of Professional Engineers and Geoscientists

GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

MARINE

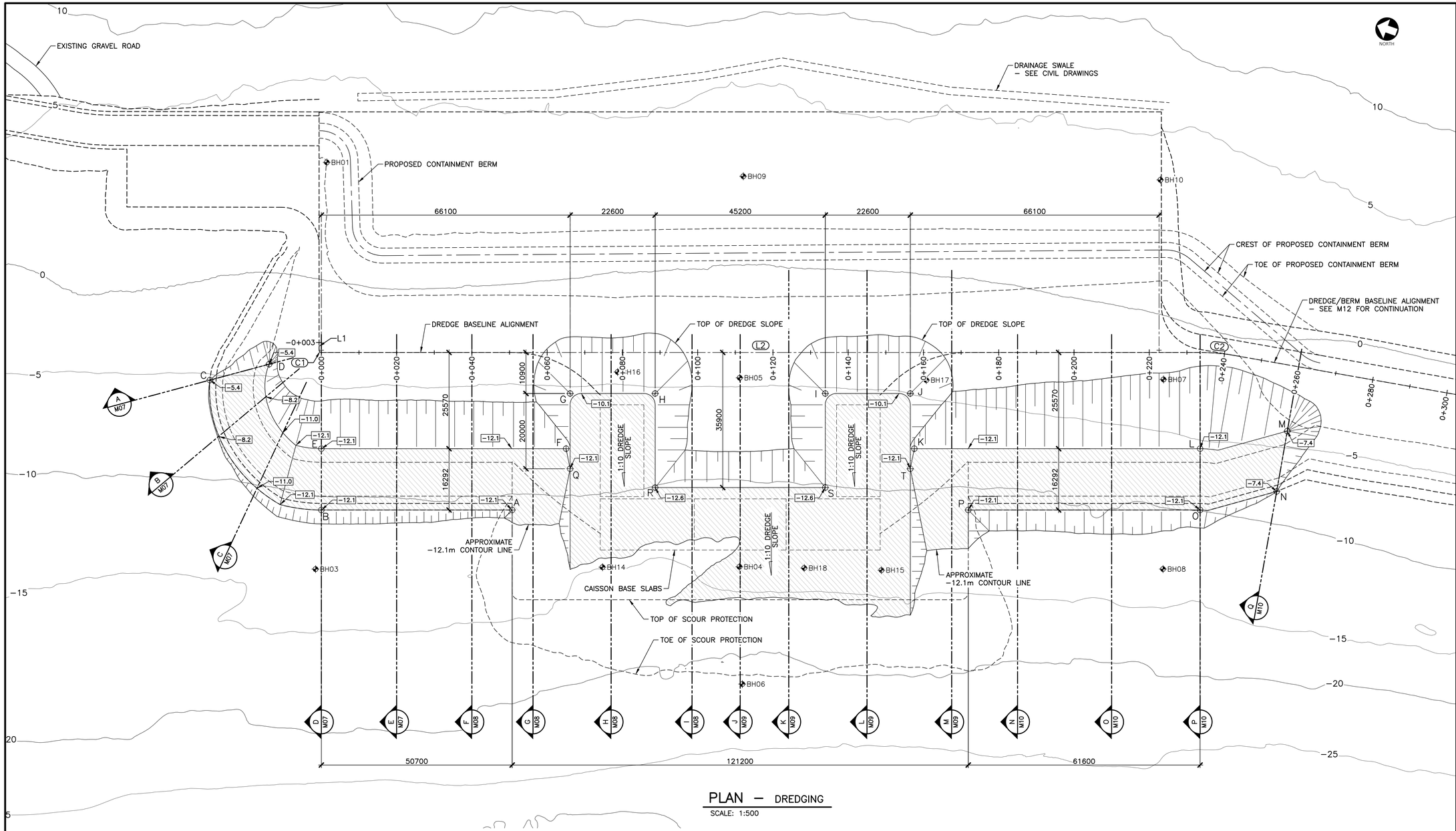
BOREHOLE LOGS 3 OF 3

Prime Consultant

CBCL

Sub Consultant

CBCL No 234414	Contract No 22205-00762
Date MAR. 2025	Scale AS NOTED
Designed JEF	Drawn STG
Checked GKP	Approved DDP
Sheet No 5 of 28	
Drawing No **M05**	



PLAN – DREDGING

SCALE: 1:500

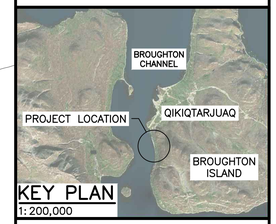
DREDGE COORDINATES

MARK	EASTING	NORTHING
A	E 455 955.423	N 7 490 775.037
B	E 455 938.507	N 7 490 822.832
C	E 455 961.179	N 7 490 862.264
D	E 455 970.404	N 7 490 848.836
E	E 455 953.865	N 7 490 828.267
F	E 455 975.564	N 7 490 766.960
G	E 455 989.750	N 7 490 770.850
H	E 455 997.291	N 7 490 749.545
I	E 456 012.372	N 7 490 706.935
J	E 456 019.912	N 7 490 685.630
K	E 456 006.438	N 7 490 679.731
L	E 456 031.774	N 7 490 608.142
M	E 456 043.922	N 7 490 587.864
N	E 456 027.853	N 7 490 585.177
O	E 456 016.416	N 7 490 602.706
P	E 455 995.862	N 7 490 660.782
Q	E 455 970.896	N 7 490 764.177
R	E 455 973.723	N 7 490 741.204
S	E 455 988.804	N 7 490 698.594
T	E 456 001.058	N 7 490 678.957

DREDGE BASELINE ALIGNMENT

SEGMENT	START STATION	LENGTH	RADIUS	START COORDINATE	END COORDINATE
L1	−0+003.000	2.057		E 455980.276, N 7490838.251	E 455978.337, N 7490837.565
C1	−0+000.943	0.943	0.600	E 455978.337, N 7490837.565	E 455977.971, N 7490836.799
L2	0+000.000	233.506		E 455977.971, N 7490836.799	E 456055.881, N 7490616.674
C2	0+233.506	9.198	52.700	E 456055.881, N 7490616.674	E 456058.179, N 7490607.780
L3	0+242.704	104.422		E 456058.179, N 7490607.780	E 456075.397, N 7490504.787

Nunavut



KEY PLAN
1: 200,000

NOTES:
1. SEE NOTES ON DRAWING M01

LEGEND

⊕A	DREDGE COORDINATE POINT
✥BH01	BORE HOLE LOCATION
(L3)	BASELINE SEGMENT LABEL

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0	ISSUED FOR TENDER	OCT 23/25	JEF

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NT/NU Association of Professional Engineers and Geoscientists

GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

MARINE

DREDGING AND INFILL PLAN

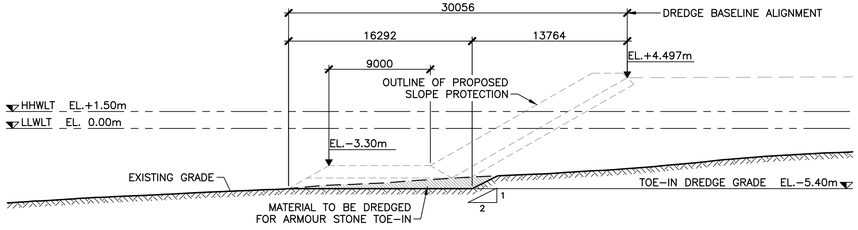
Prime Consultant

CBCL

Sub Consultant

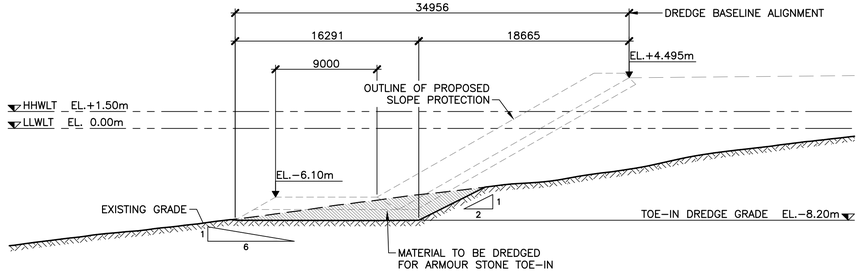
REGISTERED PROFESSIONAL ENGINEER
G.K. PETERS
LICENSEE
10/23/2025
NT/NU

CBCL No 234414	Contract No 22205-00762
Date MAR. 2025	Scale AS NOTED
Designed JEF	Drawn STG
Checked GKP	Approved DDP
Sheet No 6 of 28	
Drawing No **M06**	



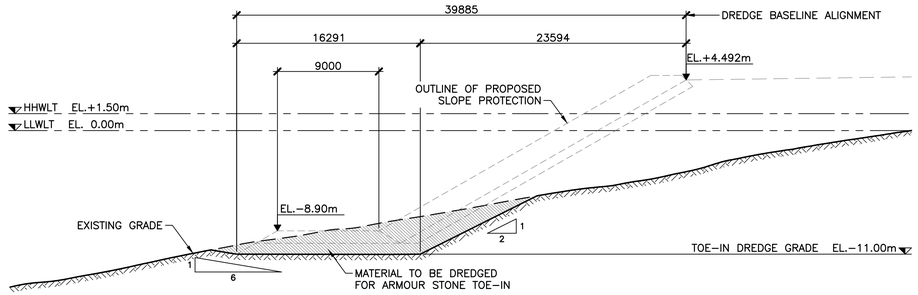
A / M06 **SECTION** STA.–0+000.785

SCALE: 1:250



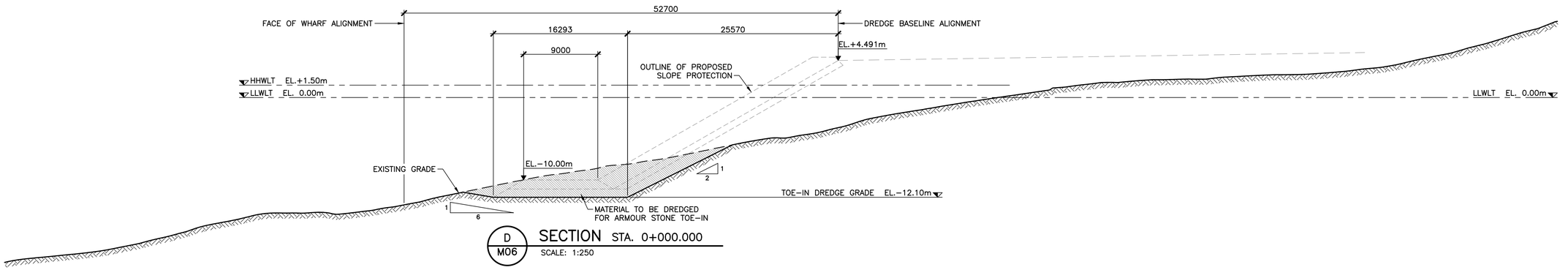
B / M06 **SECTION** STA.–0+000.524

SCALE: 1:250



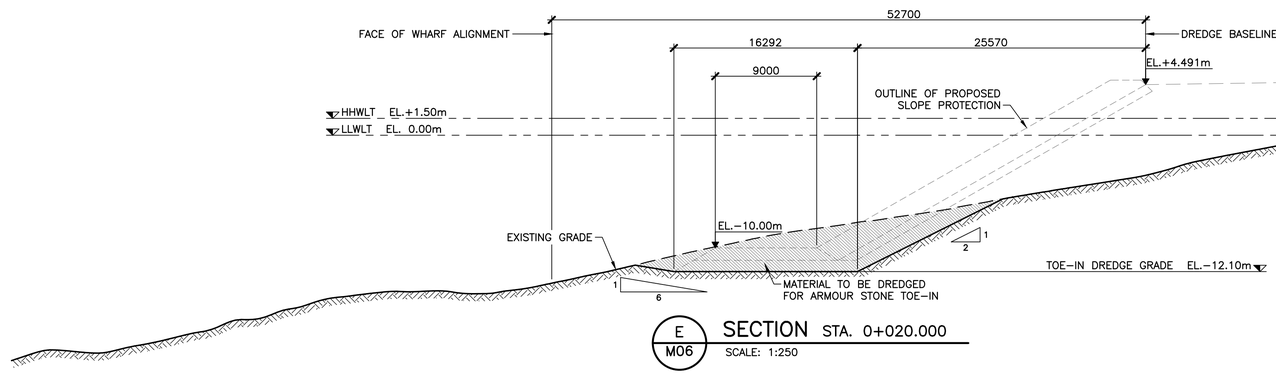
C / M06 **SECTION** STA.–0+000.262

SCALE: 1:250



D / M06 **SECTION** STA. 0+000.000

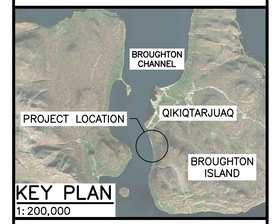
SCALE: 1:250



E / M06 **SECTION** STA. 0+020.000

SCALE: 1:250

Nunavut



NOTES:

1. SEE NOTES ON DRAWING M01
2. SIDE SLOPES STATED ARE FOR GENERAL REFERENCE, CONTRACTOR TO MAKE THEIR OWN DETERMINATION OF SLOPES REQUIRED.

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No.	Description	Date	By
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GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

MARINE

DREDGING AND INFILL SECTIONS
1 OF 4

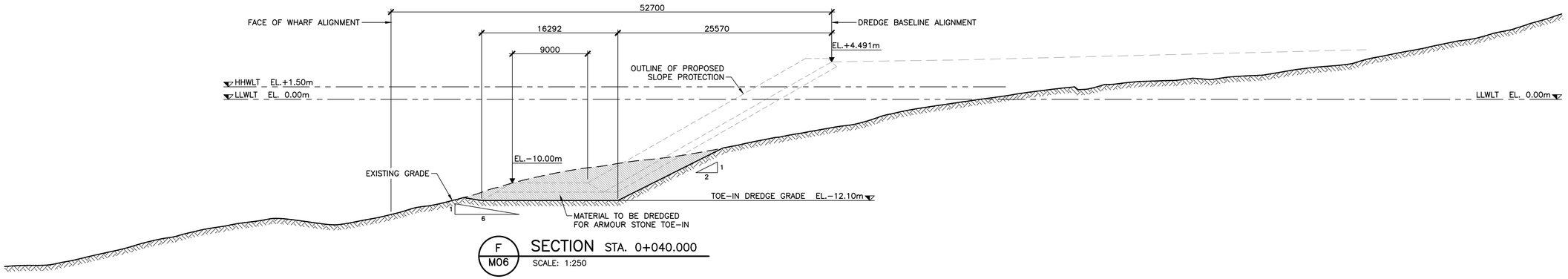
Prime Consultant

CBCL

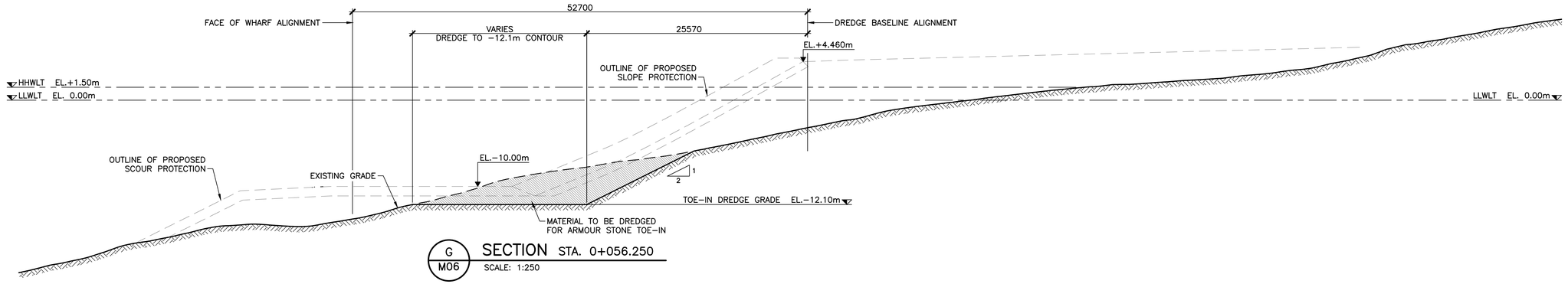
Sub Consultant

REGISTERED PROFESSIONAL ENGINEER
G.K. PETERS
LICENSEE
10/23/2025
NTI/NU

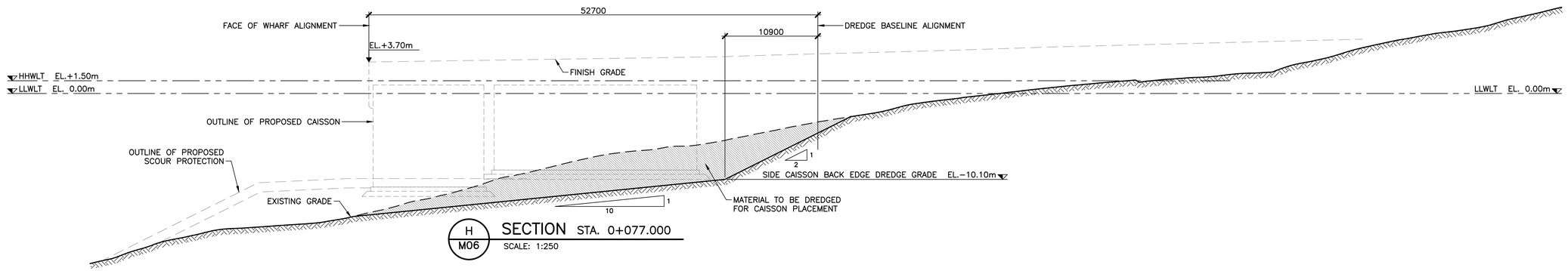
CBCL No 234414	Contract No 22205-00762
Date MAR. 2025	Scale AS NOTED
Designed JEF	Drawn STG
Checked GKP	Approved DDP
Sheet No 7 of 28	
Drawing No **M07**	



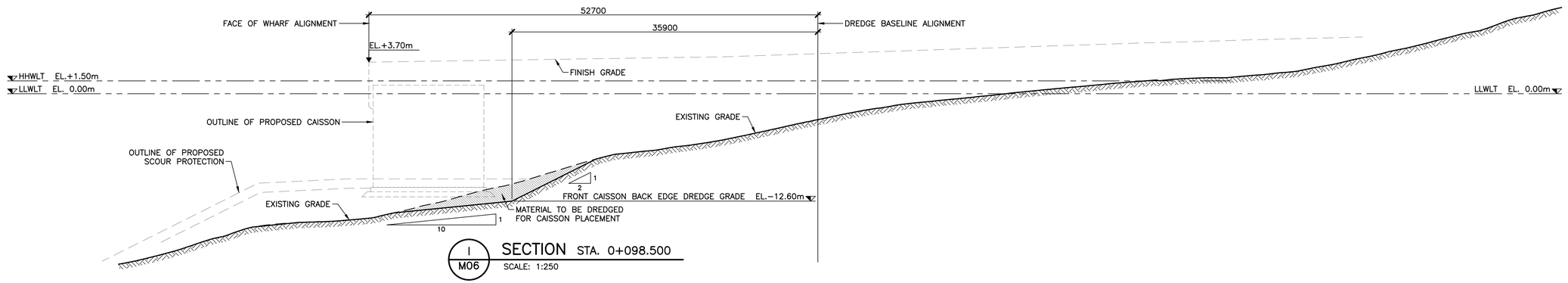
F M06 **SECTION** STA. 0+040.000
SCALE: 1:250



G M06 **SECTION** STA. 0+056.250
SCALE: 1:250

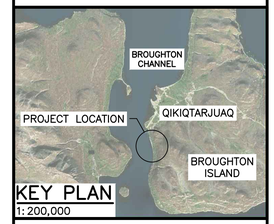


H M06 **SECTION** STA. 0+077.000
SCALE: 1:250



I M06 **SECTION** STA. 0+098.500
SCALE: 1:250

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NOTES:
1. SEE NOTES ON DRAWING M01

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No.	Description	Date	By
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GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

MARINE

DREDGING AND INFILL SECTIONS
2 OF 4

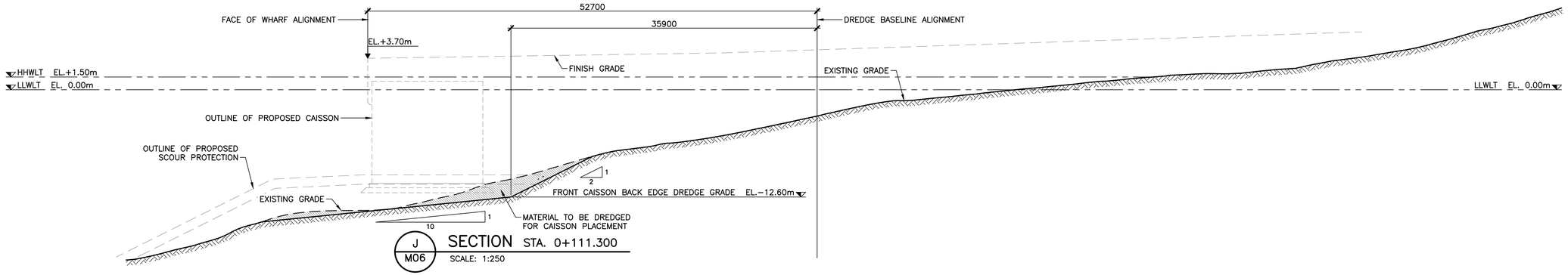
Prime Consultant

CBCL

Sub Consultant

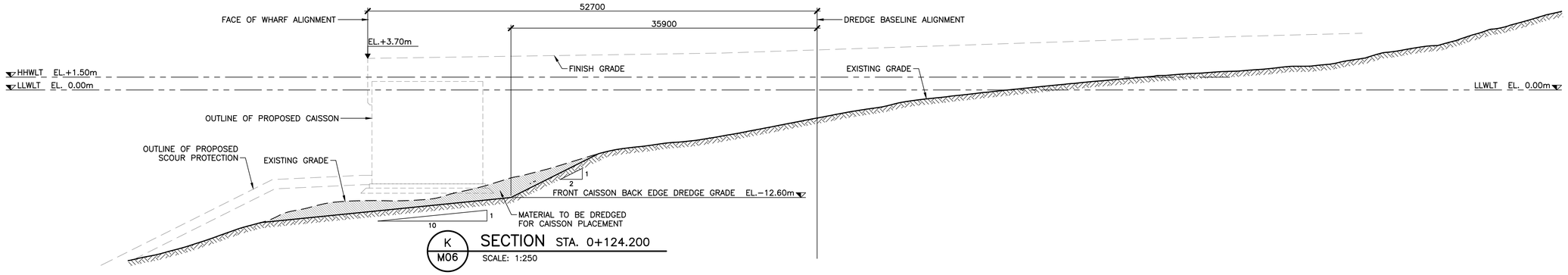
REGISTERED PROFESSIONAL ENGINEER
G.K. PETERS
LICENSEE
10/23/2025
NTI/NU

CBCL No 234414	Contract No 22205-00762
Date MAR. 2025	Scale AS NOTED
Designed JEF	Drawn STG
Checked GKP	Approved DDP
Sheet No 8 of 28	
Drawing No **M08**	



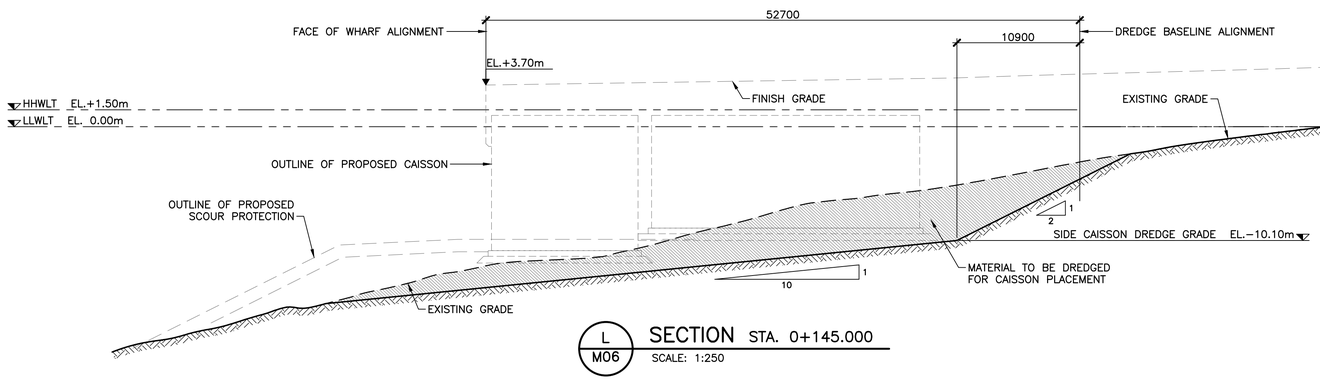
J / M06 **SECTION** STA. 0+111.300

SCALE: 1:250



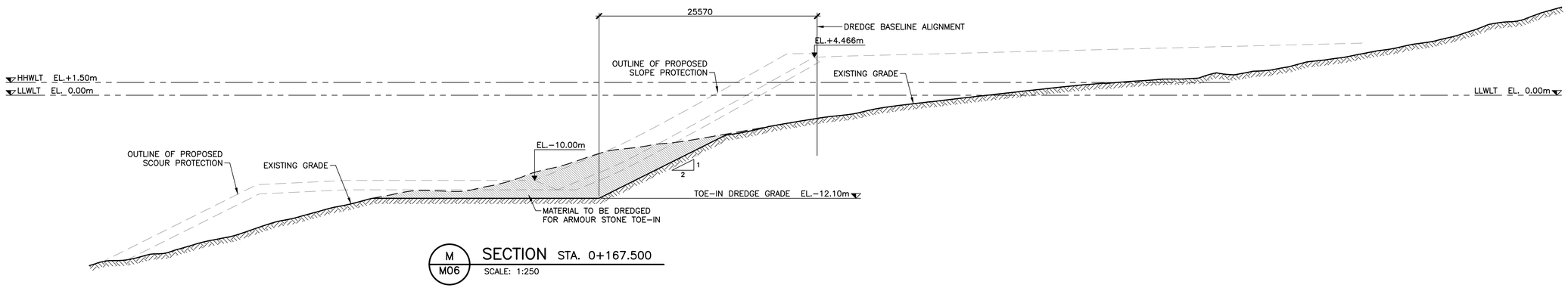
K / M06 **SECTION** STA. 0+124.200

SCALE: 1:250



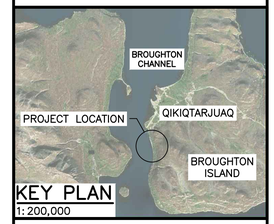
L / M06 **SECTION** STA. 0+145.000

SCALE: 1:250



M / M06 **SECTION** STA. 0+167.500

SCALE: 1:250



NOTES:

1. SEE NOTES ON DRAWING M01

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0	ISSUED FOR TENDER	OCT 23/25	JEF

Revision or Issue

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Date 2025-10-24
PERMIT NUMBER: P1441
NTI/NU Association of Professional Engineers and Geoscientists

GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

MARINE

DREDGING AND INFILL SECTIONS
3 OF 4

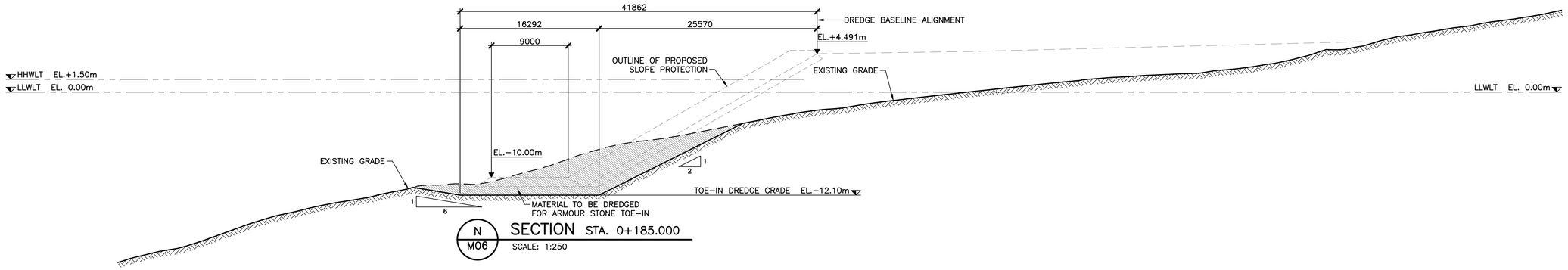
Prime Consultant

CBCL

Sub Consultant

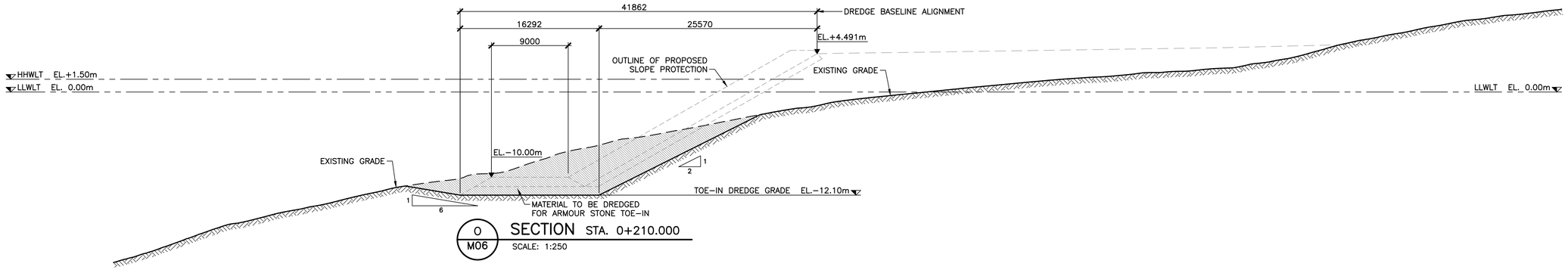
REGISTERED PROFESSIONAL ENGINEER
G.K. PETERS
LICENSEE
10/23/2025
NTI/NU

CBCL No 234414	Contract No 22205-00762
Date MAR. 2025	Scale AS NOTED
Designed JEF	Drawn STG
Checked GKP	Approved DDP
Sheet No 9 of 28	
Drawing No **M09**	



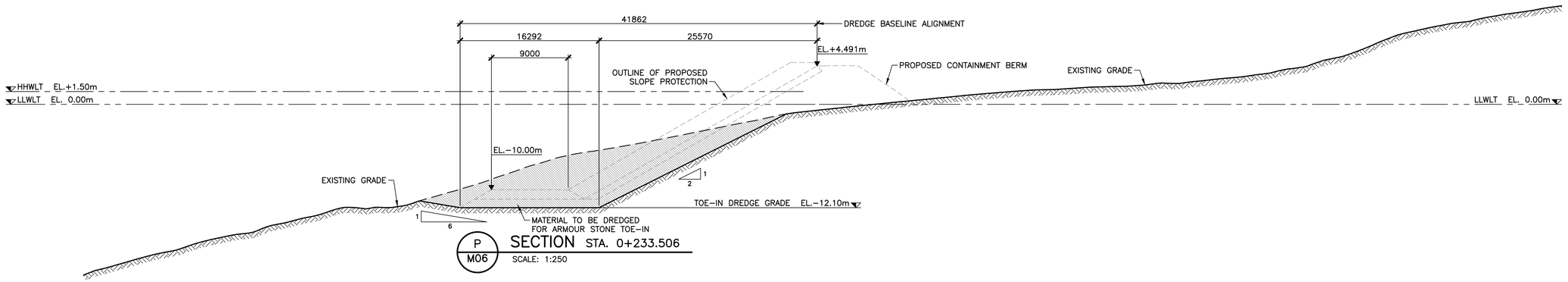
N / M06 SECTION STA. 0+185.000

SCALE: 1:250



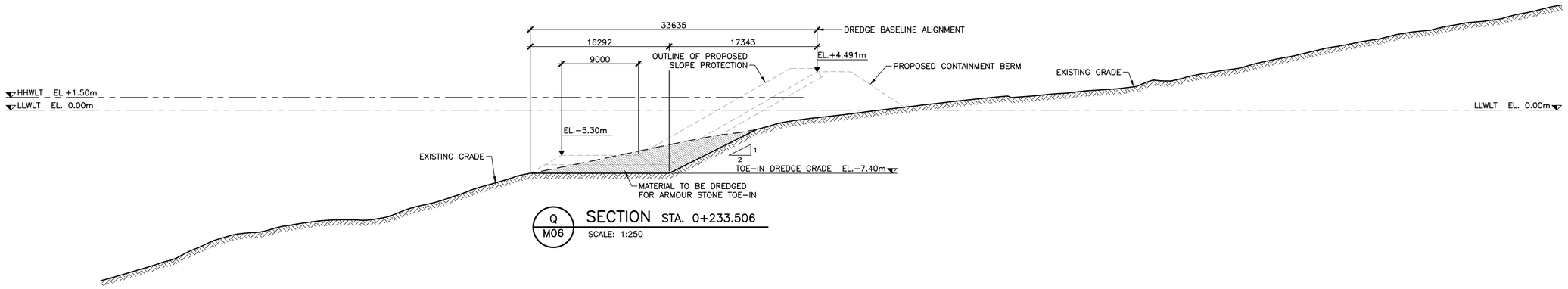
O / M06 SECTION STA. 0+210.000

SCALE: 1:250



P / M06 SECTION STA. 0+233.506

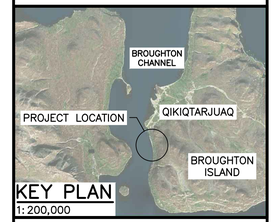
SCALE: 1:250



Q / M06 SECTION STA. 0+233.506

SCALE: 1:250

Nunavut



KEY PLAN
1: 200,000

NOTES:

1. SEE NOTES ON DRAWING M01

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GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

MARINE

DREDGING AND INFILL SECTIONS
4 OF 4

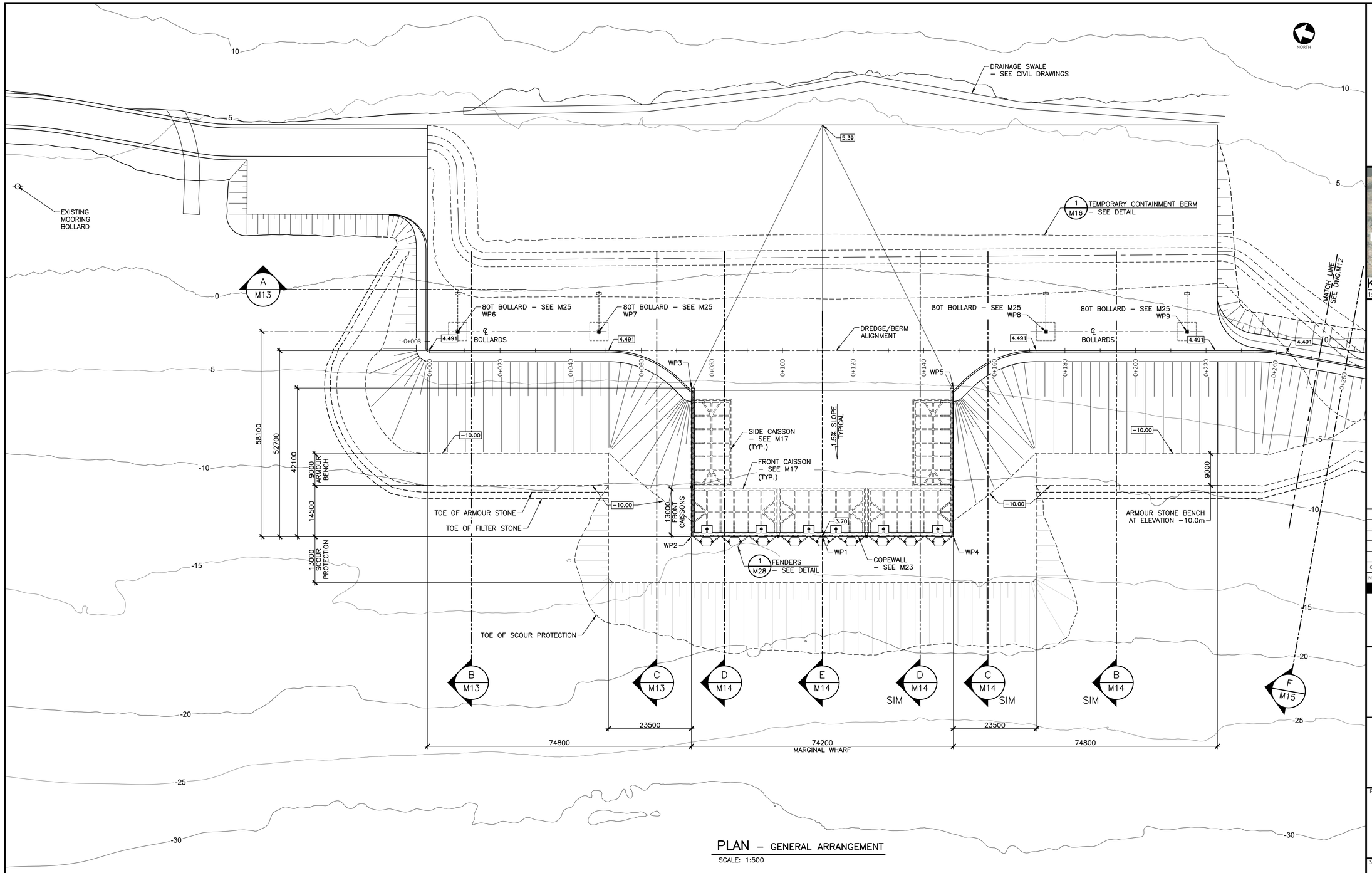
Prime Consultant

CBCL

Sub Consultant

REGISTERED PROFESSIONAL ENGINEER
G.K. PETERS
LICENSEE
10/23/2025
NT/NU

CBCL No 234414	Contract No 22205-00762
Date MAR. 2025	Scale AS NOTED
Designed JEF	Drawn STG
Checked GKP	Approved DDP
Sheet No 10 of 28	
Drawing No M10	

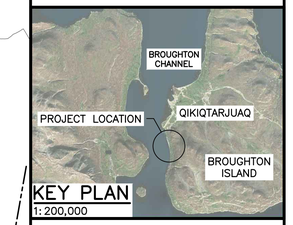


PLAN – GENERAL ARRANGEMENT

SCALE: 1:500

WORK POINT COORDINATES			
MARK	EASTING	NORTHING	DESCRIPTION
WP1	E 455 965.426	N 7 490 714.294	CENTRE SEAWARD FACE OF COPEWALL
WP2	E 455 953.048	N 7 490 749.268	CORNER OF COPEWALL
WP3	E 455 992.736	N 7 490 763.314	CORNER OF COPEWALL
WP4	E 455 977.805	N 7 490 679.319	CORNER OF COPEWALL
WP5	E 456 017.492	N 7 490 693.366	CORNER OF COPEWALL
WP6	E 455 985.731	N 7 490 831.059	CENTRE OF BOLLARD
WP7	E 455 999.077	N 7 490 793.351	CENTRE OF BOLLARD
WP8	E 456 041.317	N 7 490 674.006	CENTRE OF BOLLARD
WP9	E 456 054.663	N 7 490 636.298	CENTRE OF BOLLARD

Nunavut



KEY PLAN
1: 200,000

NOTES:

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CBCL Limited
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GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

MARINE

GENERAL ARRANGEMENT
1 OF 2

Prime Consultant

CBCL

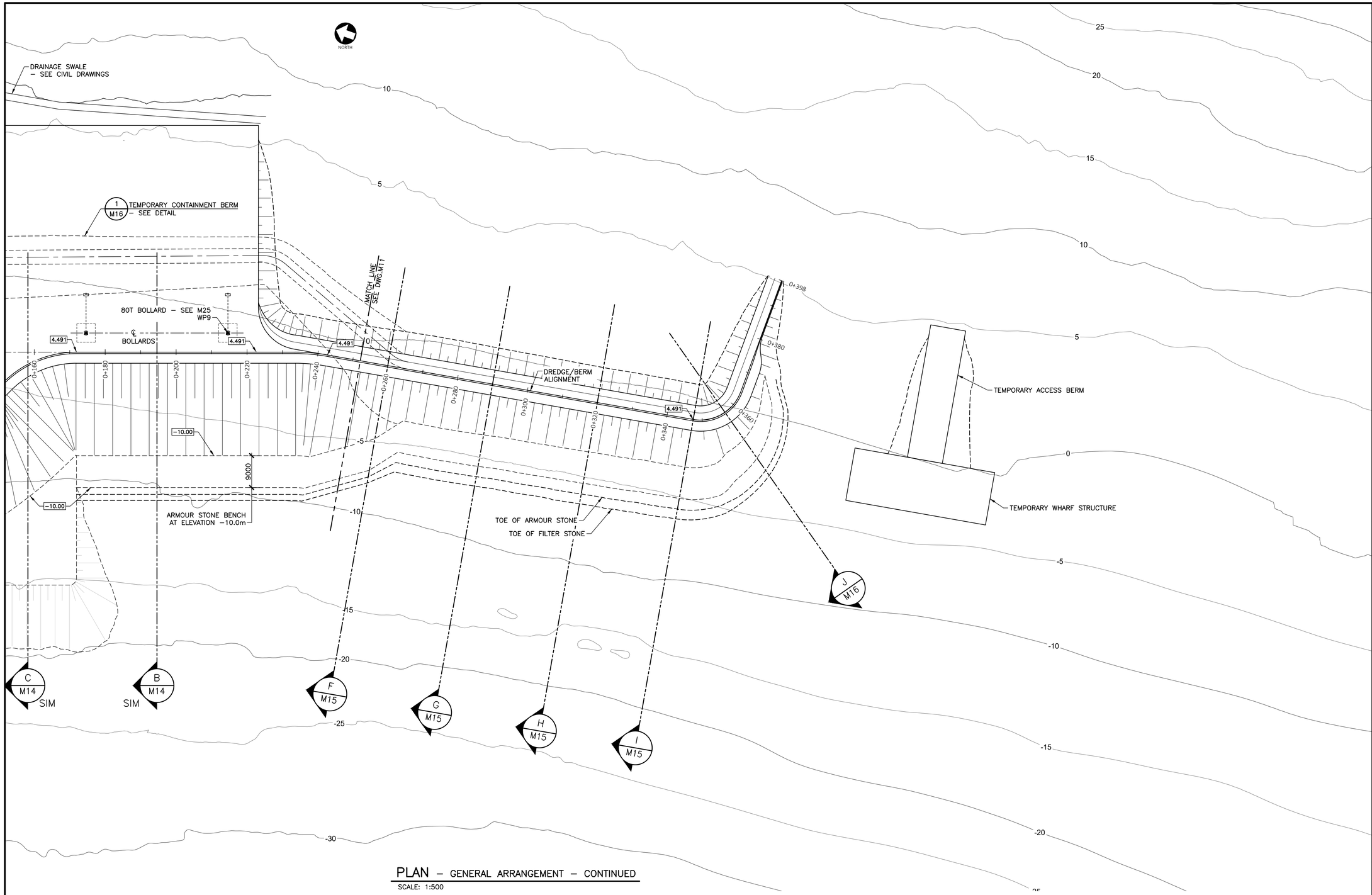
Sub Consultant

REGISTERED PROFESSIONAL ENGINEER
G.K. PETERS
LICENSEE
10/23/2025
NT/NU

CBCL No	Contract No
234414	22205-00762
Date: MAR. 2025	Scale: AS NOTED
Designed: JEF	Drawn: STG
Checked: GKP	Approved: DDP
Sheet No: 11 of 28	
Drawing No: M11	

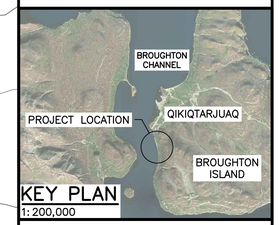
DRAWING NAME: Y:\HALIFAX\DATA\PROJECTS\2023\234414.00 GOV OF NU A&E MARINE INFRASTRUCTURE\44 CAD\03 STRUCT\234414.00 M11 GENERAL ARRANGEMENT.DWG LAYOUT NAME: M11 PLOT DATE: October 24, 2025 12:24:37 PM CAD OPERATOR: SGRACE

CBCL-610x914 TITLE SHEET (ARCH D)



PLAN – GENERAL ARRANGEMENT – CONTINUED

SCALE: 1:500



KEY PLAN
1: 200,000

NOTES:

1. SEE NOTES ON DRAWING M01

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No.	Description	Date	By
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NT/NU Association of Professional Engineers and Geoscientists

GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

MARINE

GENERAL ARRANGEMENT 2 OF 2

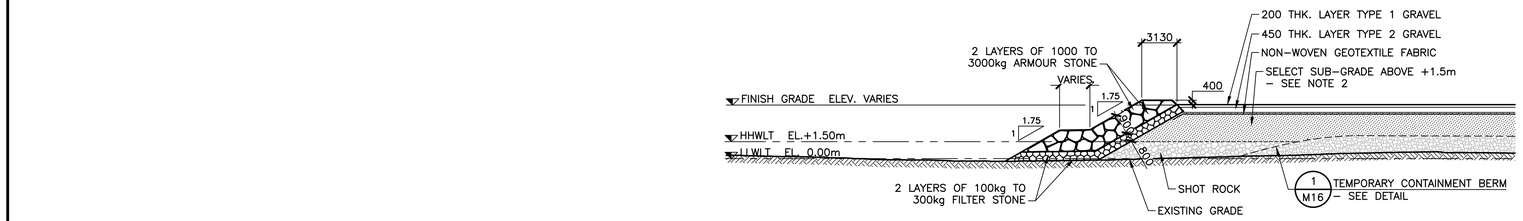
Prime Consultant

CBCL

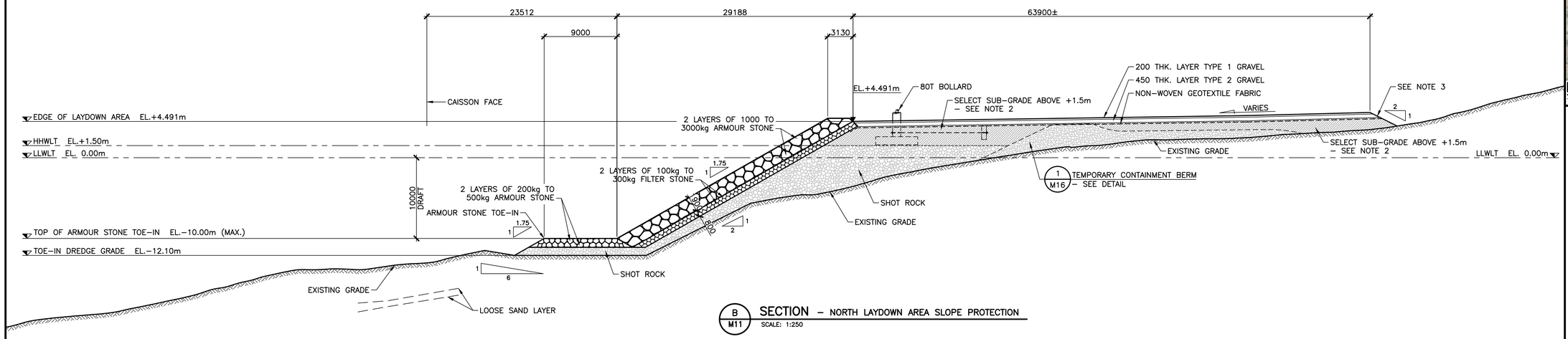
Sub Consultant

REGISTERED PROFESSIONAL ENGINEER
G.K. PETERS
LICENSEE
10/23/2025
NT/NU

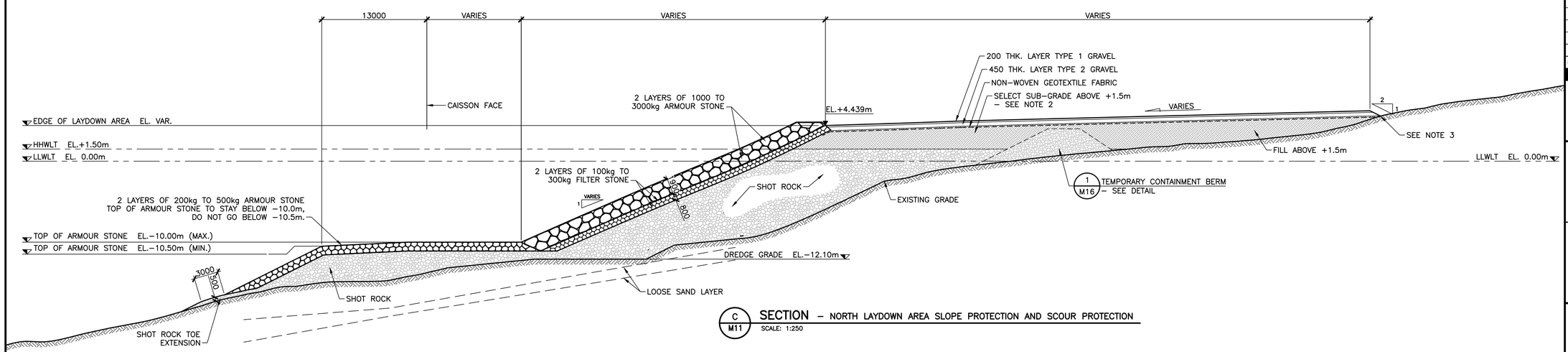
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Date MAR. 2025	Scale AS NOTED
Designed JEF	Drawn STG
Checked GKP	Approved DDP
Sheet No 12 of 28	
Drawing No **M12**	



A M11 **SECTION – TRANSVERSE LAYDOWN AREA AND SLOPE PROTECTION**
SCALE: 1:250

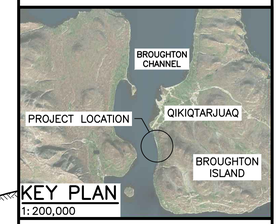


B M11 **SECTION – NORTH LAYDOWN AREA SLOPE PROTECTION**
SCALE: 1:250



C M11 **SECTION – NORTH LAYDOWN AREA SLOPE PROTECTION AND SCOUR PROTECTION**
SCALE: 1:250

Nunavut



KEY PLAN
1: 200,000

NOTES:

1. SEE NOTES ON DRAWING M01
2. SELECT SUB–GRADE TO BE DREDGE MATERIAL. IMPORTED MATERIAL FOR SELECT SUB–GRADE TO ONLY BE USED FOLLOWING AUTHORIZATION AND WRITTEN APPROVAL OF THE CONSULTANT. ALL DREDGE REUSE REMAINING WITHIN THE SITE UPLANDS AREA SHALL BE COMPACTED IN ACCORDANCE WITH THE FILL REQUIREMENTS SPECIFIED UNDER SECTION 31 23 33.01 – EXCAVATION, TRENCHING, AND BACKFILLING. SEE CIVIL DRAWINGS C01 FOR DELINEATION OF THE SITE UPLANDS AREA.
3. SEE CIVIL DRAWINGS FOR RIP RAP PROTECTION AND SWALE CONSTRUCTION DETAILS.

NOT FOR CONSTRUCTION

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0	ISSUED FOR TENDER	OCT 23/25	JEF

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GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

MARINE

GENERAL ARRANGEMENT SECTIONS 1 OF 4

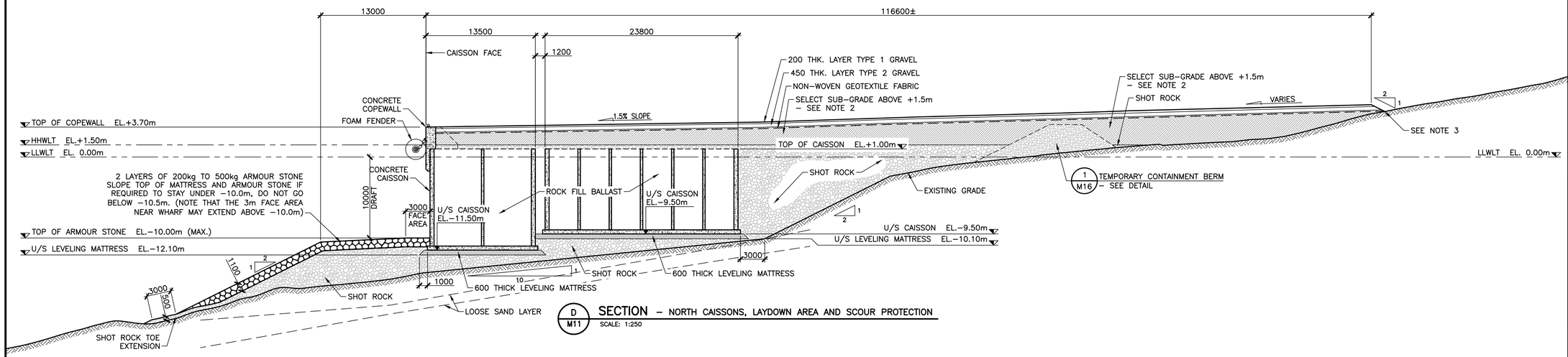
Prime Consultant

CBCL

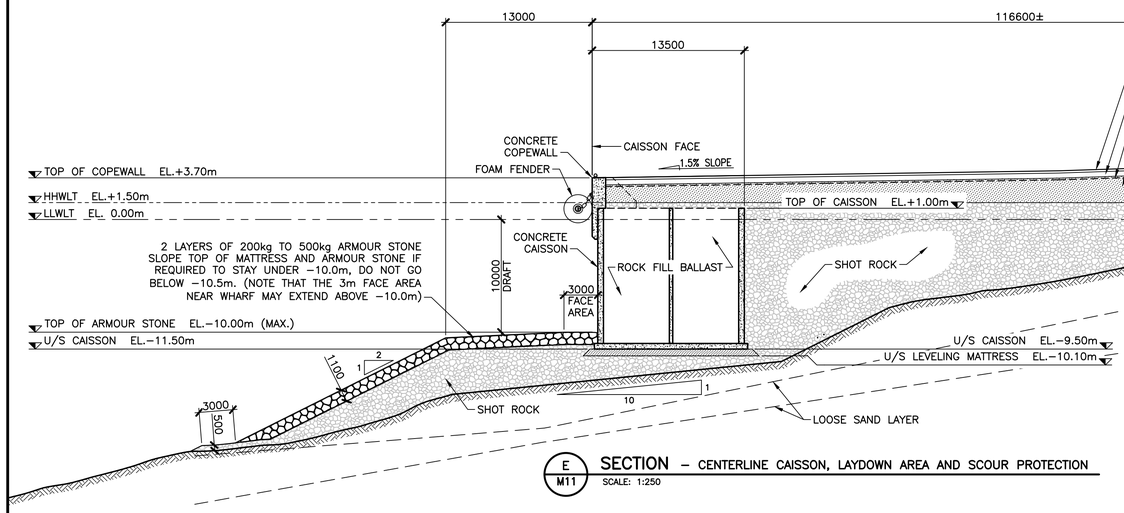
Sub Consultant

REGISTERED PROFESSIONAL ENGINEER
G.K. PETERS
LICENSEE
10/23/2025
NTNU

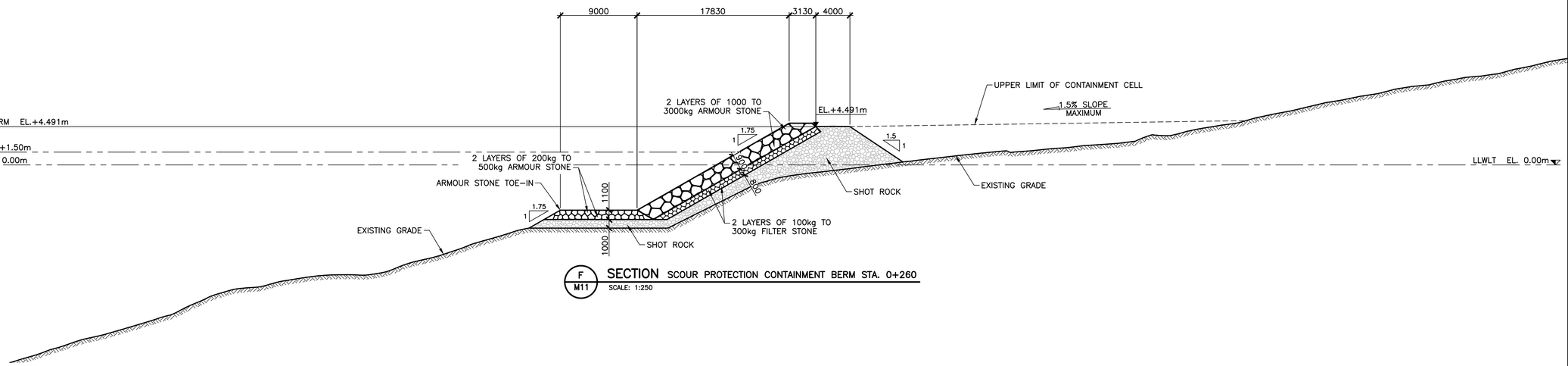
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Date MAR. 2025	Scale AS NOTED
Designed JEF	Drawn STG
Checked GKP	Approved DDP
Sheet No 13 of 28	
Drawing No **M13**	



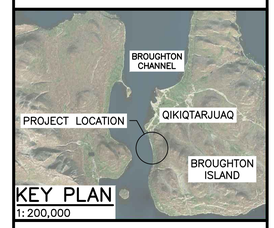
D M11 **SECTION** – NORTH CAISSONS, LAYDOWN AREA AND SCOUR PROTECTION
SCALE: 1:250



E M11 **SECTION** – CENTERLINE CAISSON, LAYDOWN AREA AND SCOUR PROTECTION
SCALE: 1:250



F M11 **SECTION** SCOUR PROTECTION CONTAINMENT BERM STA. 0+260
SCALE: 1:250



KEY PLAN
1: 200,000

NOTES:

1. SEE NOTES ON DRAWING M01
2. SELECT SUB-GRADE TO BE DREDGE MATERIAL. IMPORTED MATERIAL FOR SELECT SUB-GRADE TO ONLY BE USED FOLLOWING AUTHORIZATION AND WRITTEN APPROVAL OF THE CONSULTANT. ALL DREDGE REUSE REMAINING WITHIN THE SITE UPLANDS AREA SHALL BE COMPACTED IN ACCORDANCE WITH THE FILL REQUIREMENTS SPECIFIED UNDER SECTION 31 23 33.01 – EXCAVATION, TRENCHING, AND BACKFILLING. SEE CIVIL DRAWINGS C01 FOR DELINEATION OF THE SITE UPLANDS AREA.
3. SEE CIVIL DRAWINGS FOR RIP RAP PROTECTION AND SWALE CONSTRUCTION DETAILS.

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GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

MARINE

GENERAL ARRANGEMENT SECTIONS 2 OF 4

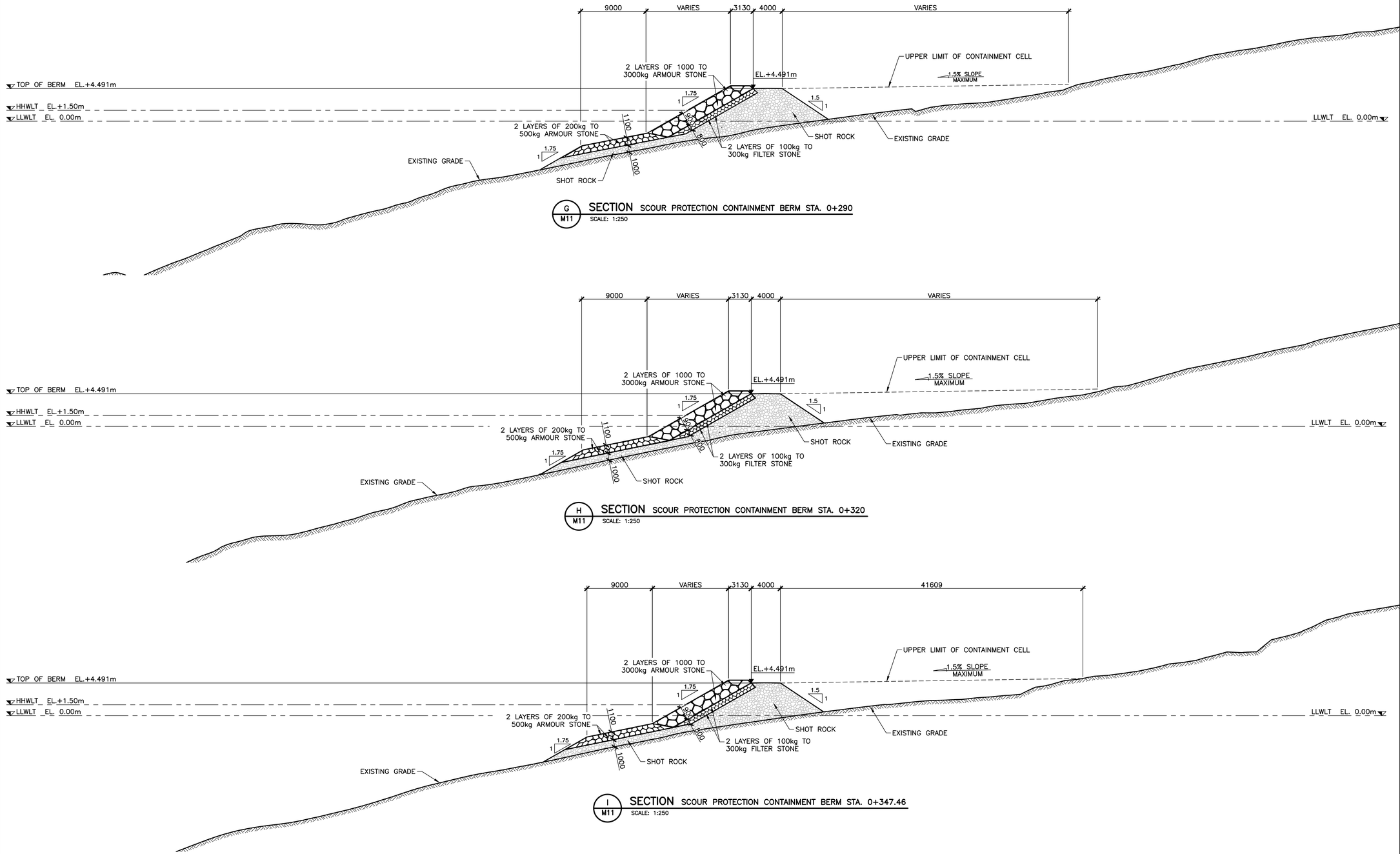
Prime Consultant

CBCL

Sub Consultant

REGISTERED PROFESSIONAL ENGINEER
G.K. PETERS
LICENSEE
10/23/2025
NT/NU

CBCL No 234414	Contract No 22205-00762
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Designed JEF	Drawn STG
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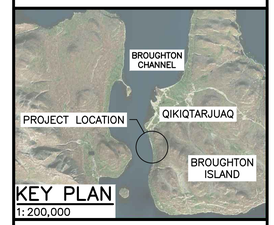


G / M11 **SECTION** SCOUR PROTECTION CONTAINMENT BERM STA. 0+290
SCALE: 1:250

H / M11 **SECTION** SCOUR PROTECTION CONTAINMENT BERM STA. 0+320
SCALE: 1:250

I / M11 **SECTION** SCOUR PROTECTION CONTAINMENT BERM STA. 0+347.46
SCALE: 1:250

Nunavut



KEY PLAN
1: 200,000

NOTES:
1. SEE NOTES ON DRAWING M01

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GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

MARINE

GENERAL ARRANGEMENT SECTIONS 3 OF 4

Prime Consultant

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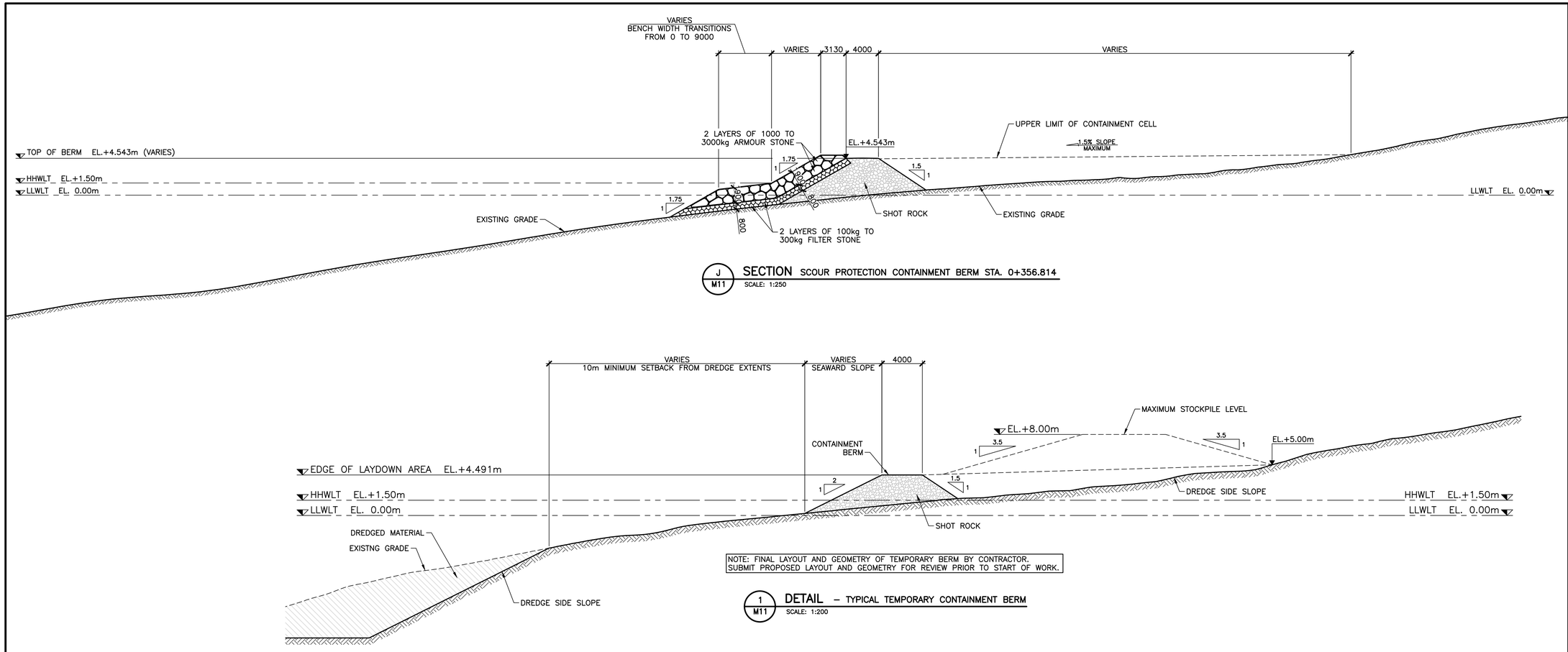
Sub Consultant

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G.K. PETERS
LICENSEE
10/23/2025
NTNU

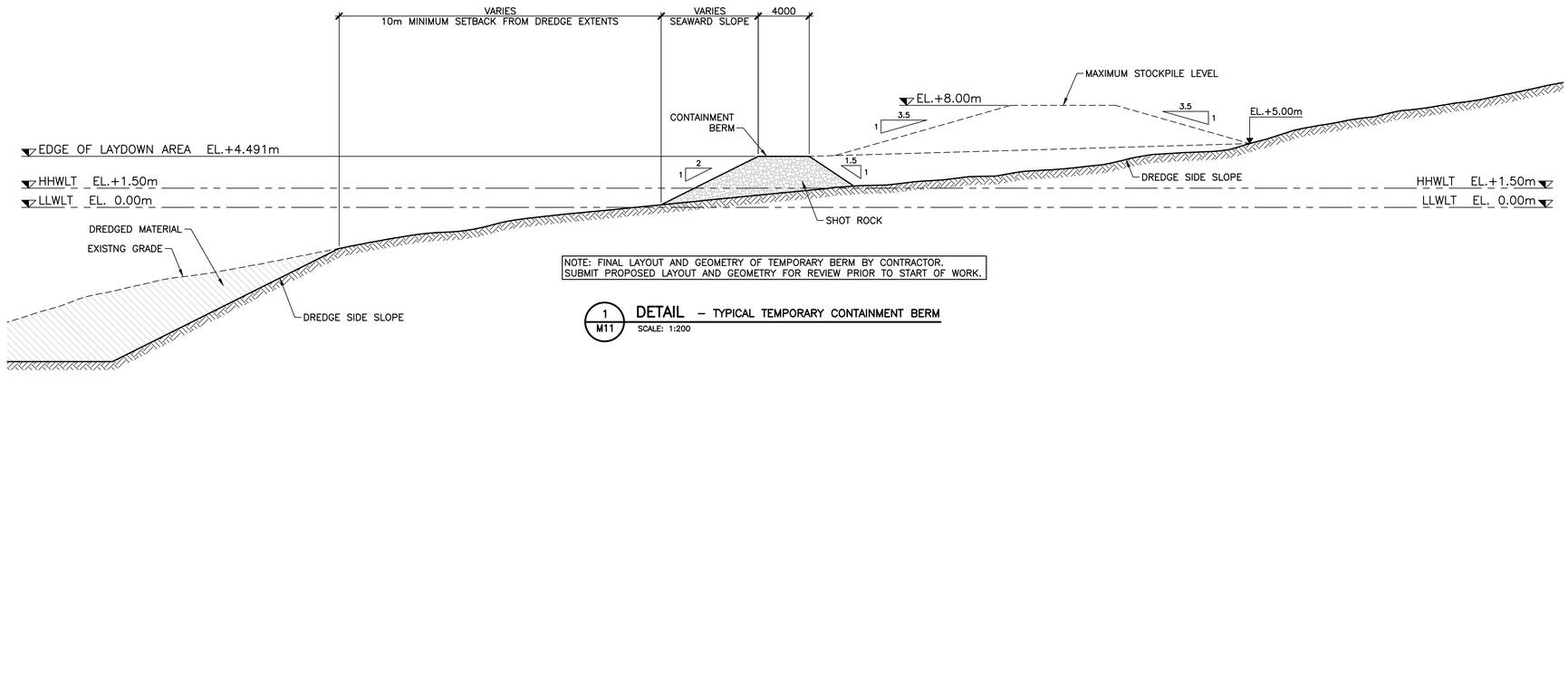
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234414	22205-00762
Date: MAR. 2025	Scale: AS NOTED
Designed: JEF	Drawn: STG
Checked: GKP	Approved: DDP
Sheet No: 15 of 28	
Drawing No: **M15**	

DRAWING NAME: Y:\HALIFAX\DATA\PROJECTS\2023\234414.00 GOV OF NU A&E MARINE INFRASTRUCTURE\44 CAD\03 STRUCT\234414.00 M13 GENERAL ARRANGEMENT SECTIONS.DWG LAYOUT NAME: M15 PLOT DATE: October 24, 2025 12:25:02 PM CAD OPERATOR: SGRACE

CBCL-610x914 TITLE SHEET (ARCH D)



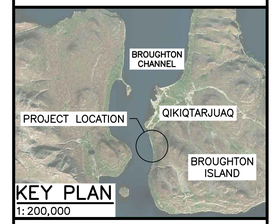
J / M11 **SECTION** SCOUR PROTECTION CONTAINMENT BERM STA. 0+356.814
SCALE: 1:250



NOTE: FINAL LAYOUT AND GEOMETRY OF TEMPORARY BERM BY CONTRACTOR.
SUBMIT PROPOSED LAYOUT AND GEOMETRY FOR REVIEW PRIOR TO START OF WORK.

1 / M11 **DETAIL** – TYPICAL TEMPORARY CONTAINMENT BERM
SCALE: 1:200

Nunavut



KEY PLAN
1: 200,000

NOTES:
1. SEE NOTES ON DRAWING M01

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GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

MARINE

GENERAL ARRANGEMENT
SECTIONS 4 OF 4

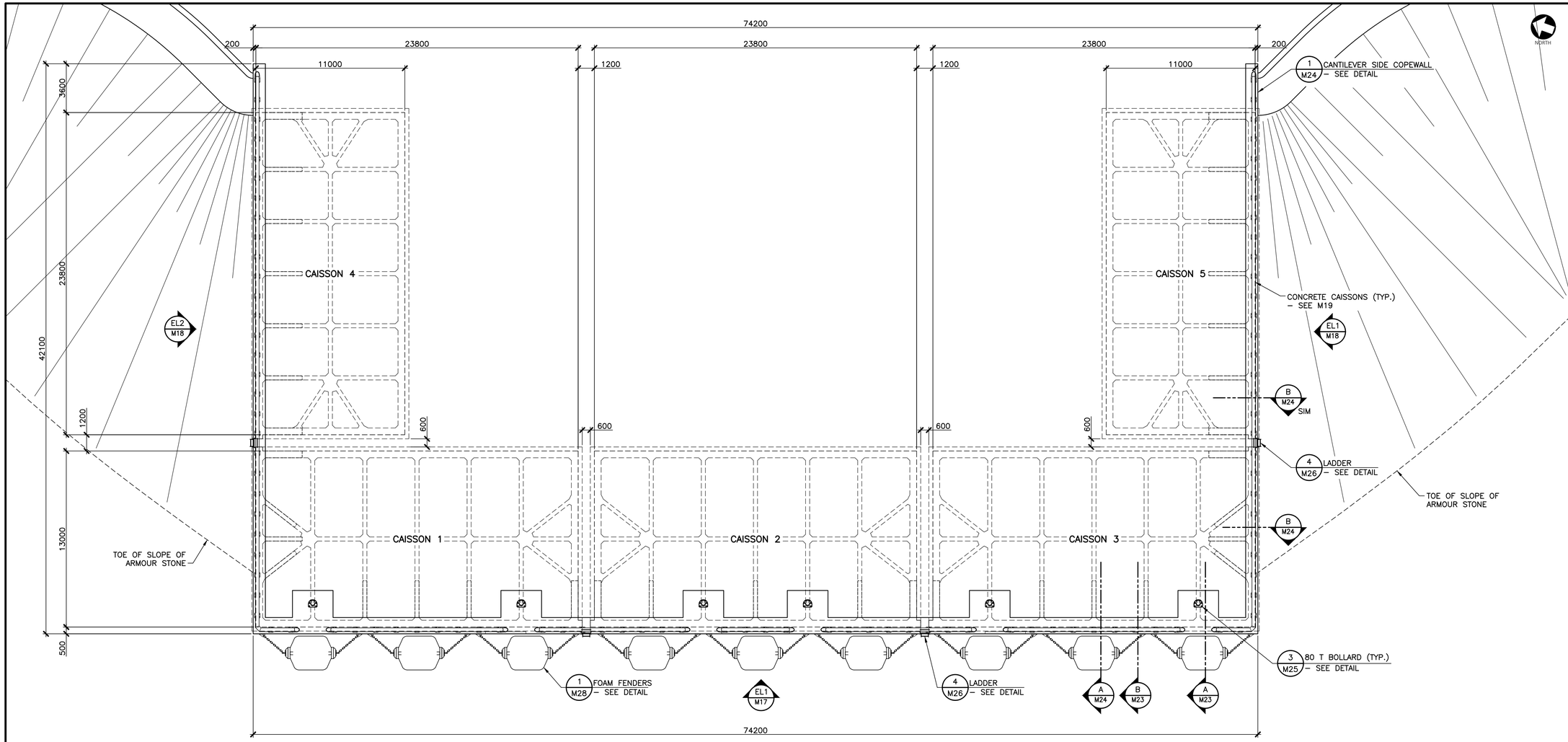
Prime Consultant

CBCL

Sub Consultant

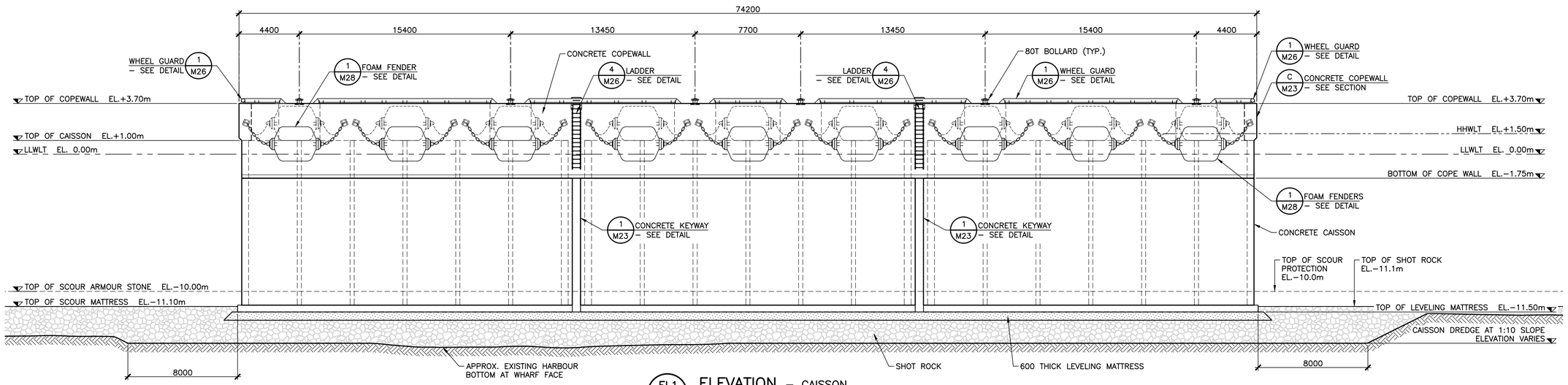
REGISTERED PROFESSIONAL ENGINEER
G.K. PETERS
LICENSEE
10/23/2025
NT/NU

CBCL No 234414	Contract No 22205-00762
Date MAR. 2025	Scale AS NOTED
Designed JEF	Drawn STG
Checked GKP	Approved DDP
Sheet No 16 of 28	
Drawing No **M16**	



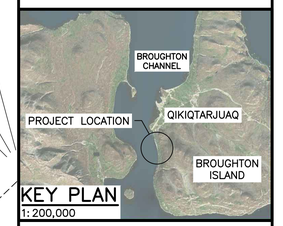
PLAN – GENERAL ARRANGEMENT CAISSON

SCALE: 1:150



EL1 M17 ELEVATION – CAISSON

SCALE: 1:150



NOTES:

1. SEE NOTES ON DRAWING M01

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GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

MARINE

CAISSON WHARF GENERAL ARRANGEMENT AND ELEVATION

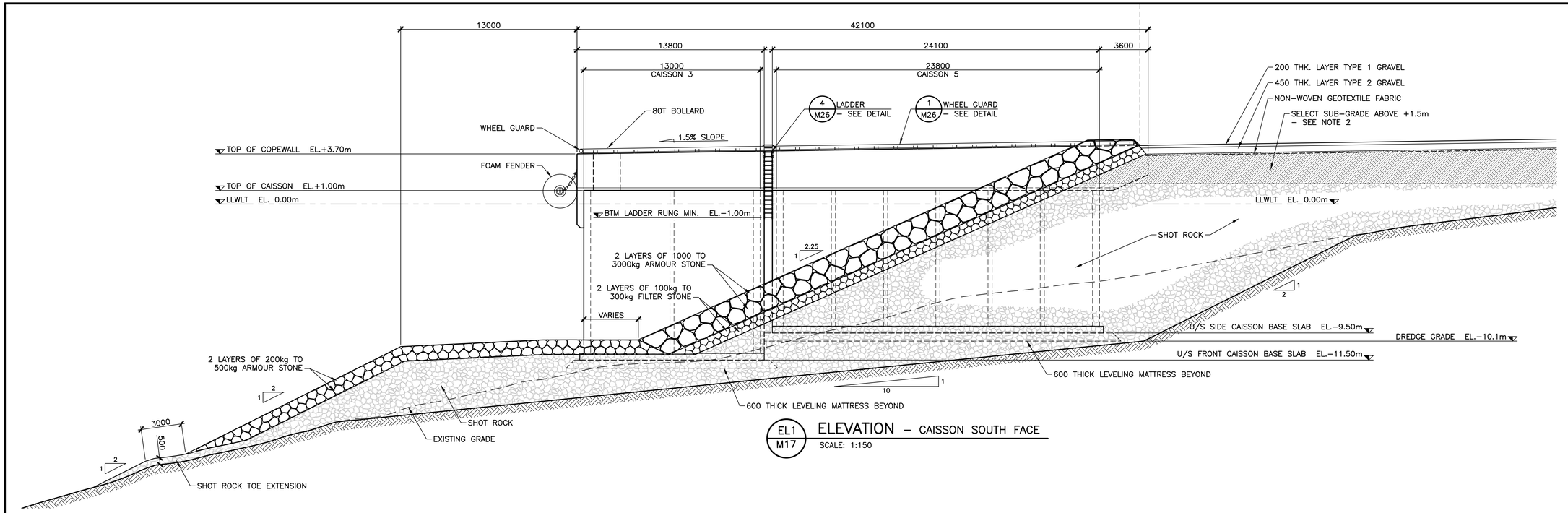
Prime Consultant

CBCL

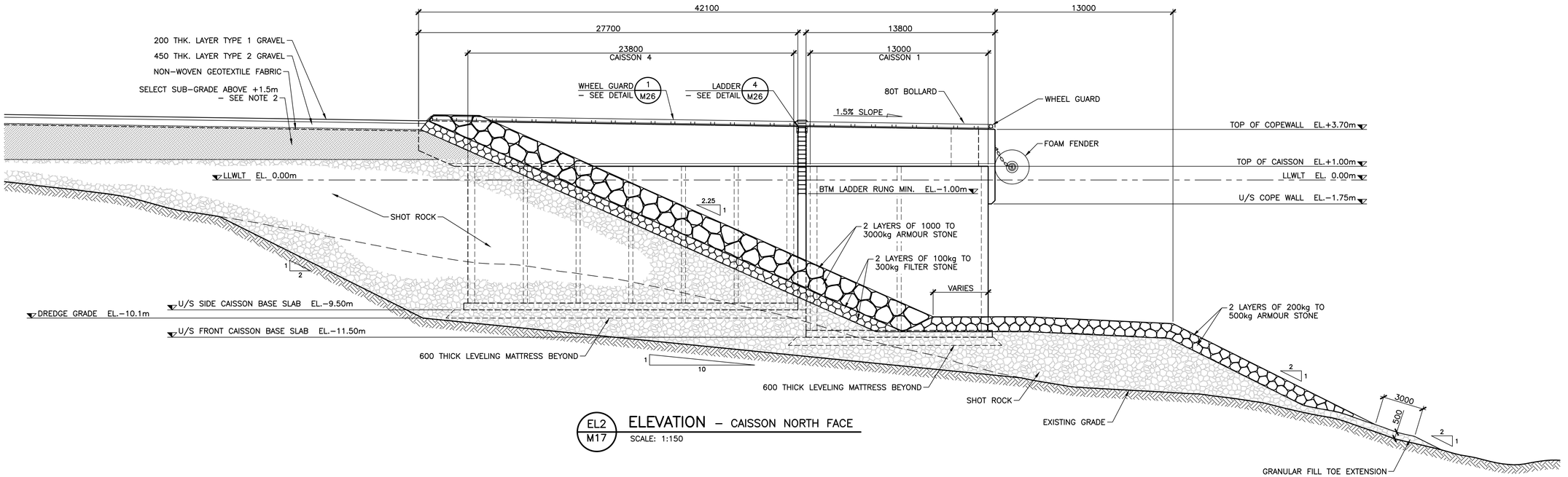
Sub Consultant

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G.K. PETERS
LICENSEE
10/23/2025
NT/NU

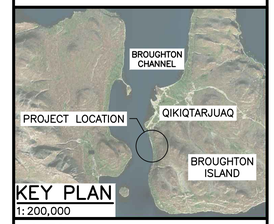
CBCL No 234414	Contract No 22205-00762
Date MAR. 2025	Scale AS NOTED
Designed JEF	Drawn STG
Checked GKP	Approved DDP
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Drawing No M17	



EL1 / M17 **ELEVATION – CAISSON SOUTH FACE**
SCALE: 1:150



EL2 / M17 **ELEVATION – CAISSON NORTH FACE**
SCALE: 1:150



KEY PLAN
1: 200,000

NOTES:

1. SEE NOTES ON DRAWING M01
2. SELECT SUB-GRADE TO BE DREDGE MATERIAL. IMPORTED MATERIAL FOR SELECT SUB-GRADE TO ONLY BE USED FOLLOWING AUTHORIZATION AND WRITTEN APPROVAL OF THE CONSULTANT. ALL DREDGE REUSE REMAINING WITHIN THE SITE UPLANDS AREA SHALL BE COMPACTED IN ACCORDANCE WITH THE FILL REQUIREMENTS SPECIFIED UNDER SECTION 31 23 33.01 – EXCAVATION, TRENCHING, AND BACKFILLING. SEE CIVIL DRAWINGS C01 FOR DELINEATION OF THE SITE UPLANDS AREA.

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GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

MARINE

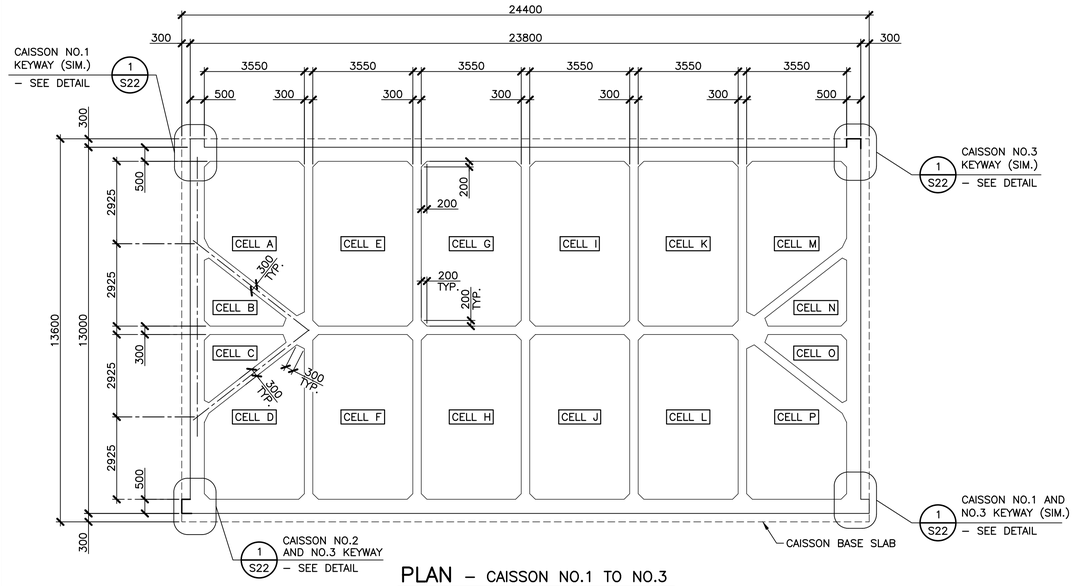
CAISSON WHARF ELEVATIONS

Prime Consultant

Sub Consultant

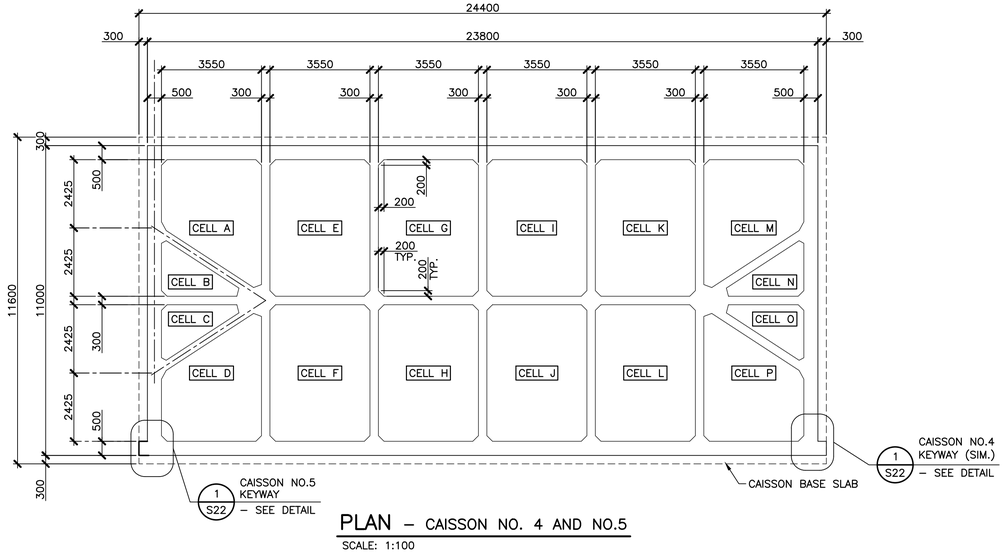
REGISTERED PROFESSIONAL ENGINEER
G.K. PETERS
LICENSEE
10/23/2025
NT/NU

CBCL No 234414	Contract No 22205-00762
Date MAR. 2025	Scale AS NOTED
Designed JEF	Drawn STG
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Sheet No 18 of 28	
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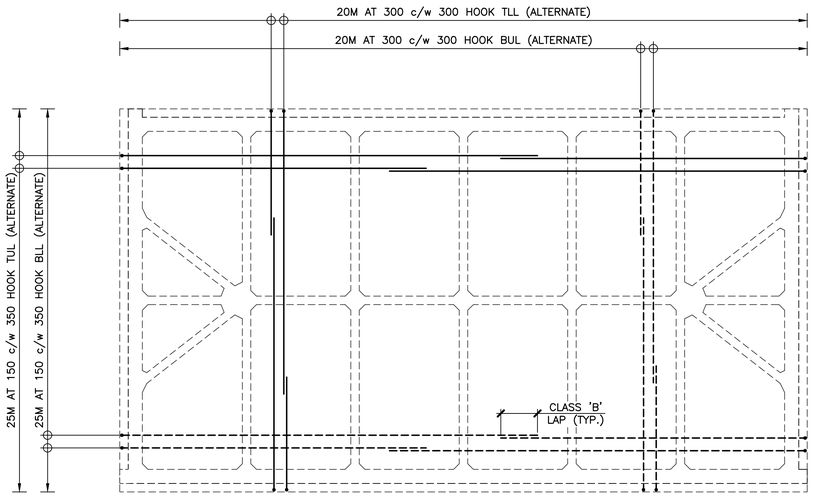
PLAN – CAISSON NO.1 TO NO.3

SCALE: 1:100



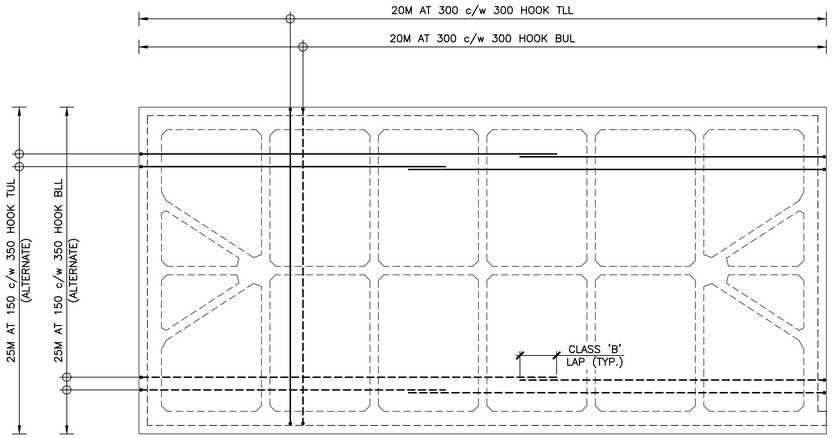
PLAN – CAISSON NO. 4 AND NO.5

SCALE: 1:100



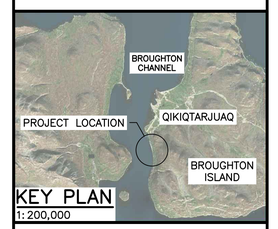
PLAN – BASE SLAB REINFORCING CAISSON NO.1 TO NO.3

SCALE: 1:100



PLAN – BASE SLAB REINFORCING CAISSON NO. 4 AND NO.5

SCALE: 1:100



KEY PLAN
1: 200,000

NOTES:

1. SEE NOTES ON DRAWING M01

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QIKIQTARJUAQ MARINE INFRASTRUCTURE

MARINE

CAISSON LAYOUT AND BASE REINFORCING PLANS

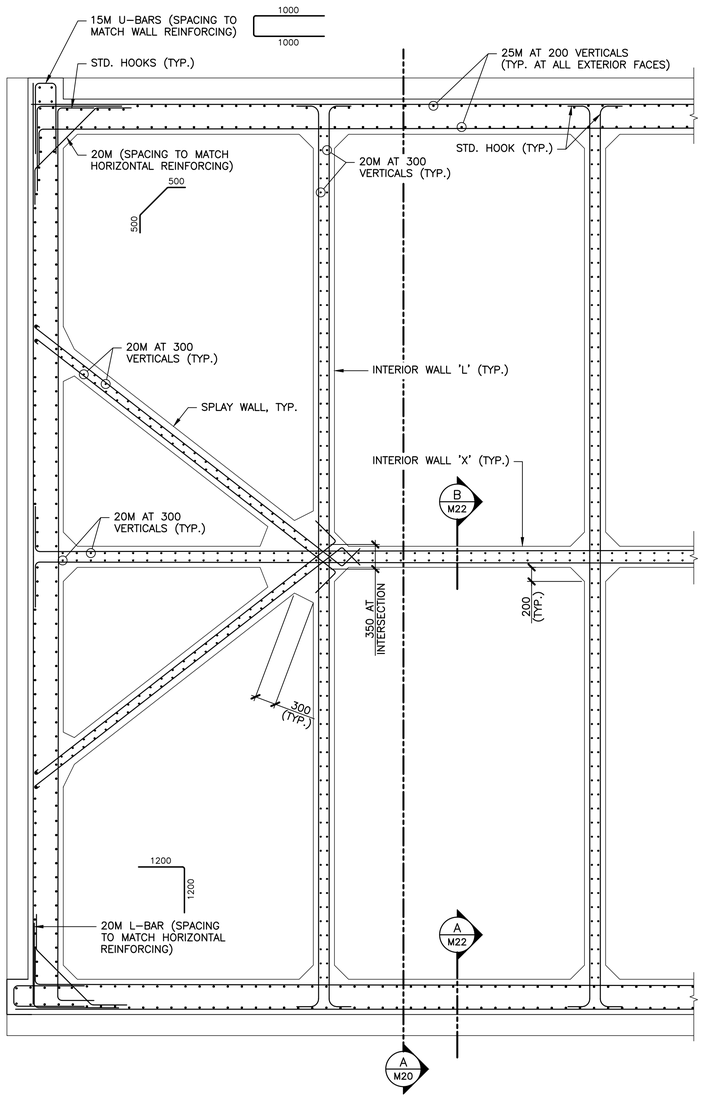
Prime Consultant

CBCL

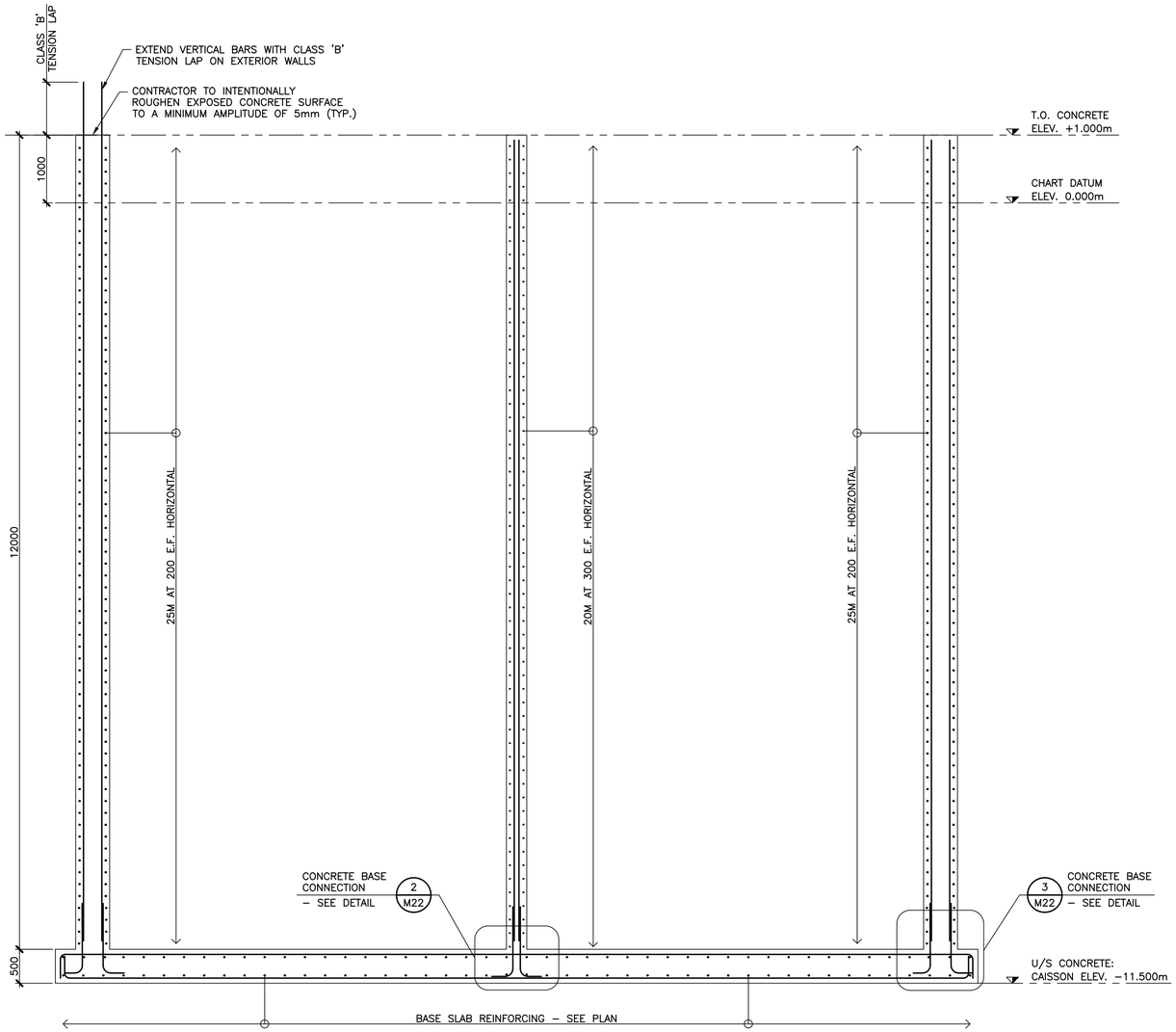
Sub Consultant

REGISTERED PROFESSIONAL ENGINEER
G.K. PETERS
LICENSEE
10/23/2025
NTI/NU

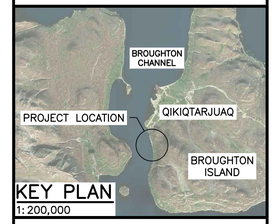
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Date MAR. 2025	Scale AS NOTED
Designed JEF	Drawn STG
Checked GKP	Approved DDP
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Drawing No M19	



PARTIAL PLAN – FRONT CAISSON (CAISSON No. 1 TO 3)
1:40



A
M20
SECTION – TYPICAL FRONT CAISSON REINFORCING (CAISSON No. 1 TO 3)
1:40



NOTES:
1. SEE NOTES ON DRAWING M01

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GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

MARINE

FRONT CAISSON REINFORCING PARTIAL PLAN AND SECTION

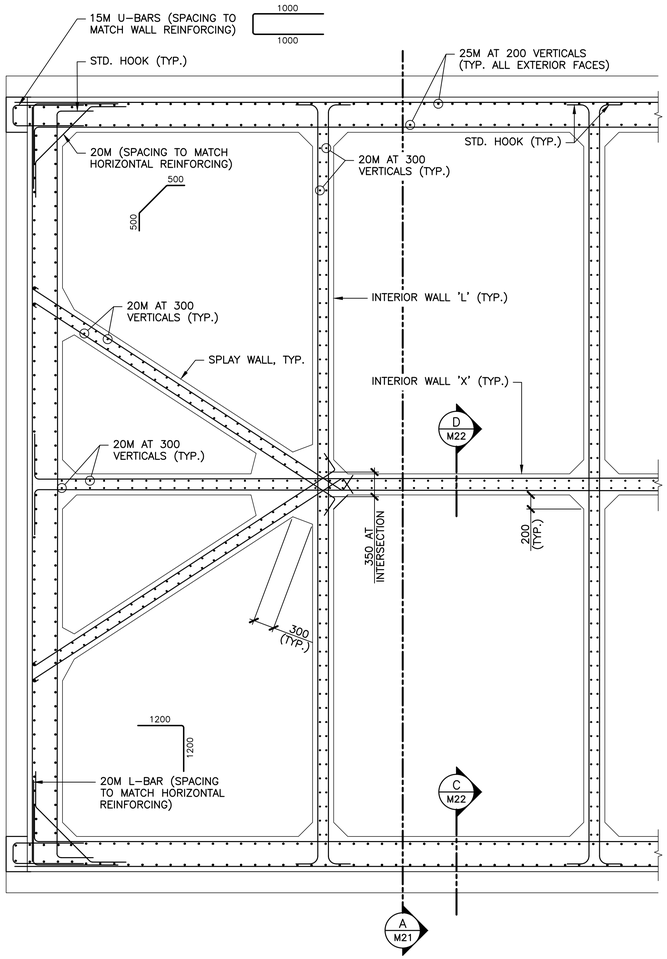
Prime Consultant

CBCL

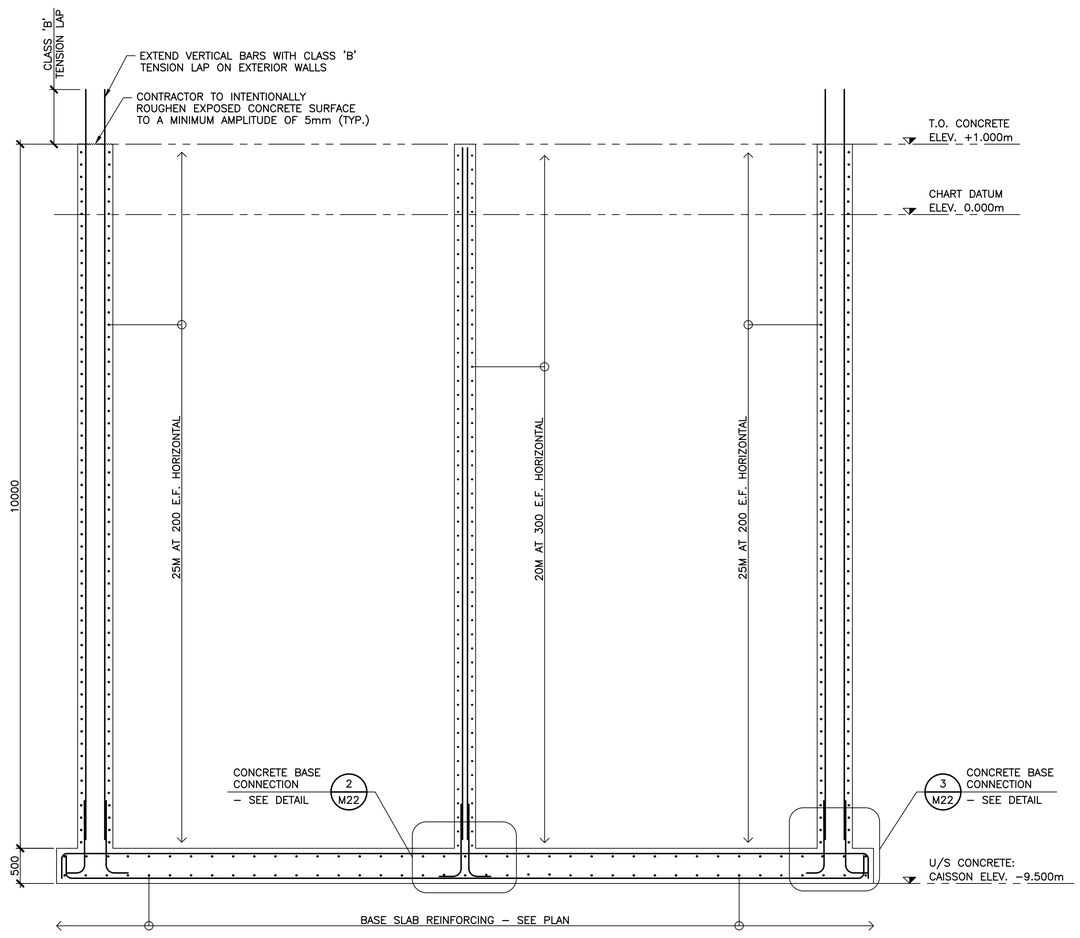
Sub Consultant

REGISTERED PROFESSIONAL ENGINEER
G.K. PETERS
LICENSEE
10/23/2025
NT/NU

CBCL No 234414	Contract No 22205-00762
Date MAR. 2025	Scale AS NOTED
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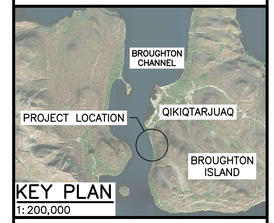


PARTIAL PLAN – SIDE CAISSON (CAISSON No. 4 TO 5)
1:40



A
M21
SECTION – TYPICAL SIDE CAISSON REINFORCING (CAISSON No. 4 TO 5)
1:40

Nunavut



KEY PLAN
1: 200,000

NOTES:
1. SEE NOTES ON DRAWING M01

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GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

MARINE

SIDE CAISSON REINFORCING PARTIAL PLAN AND SECTION

Prime Consultant

CBCL

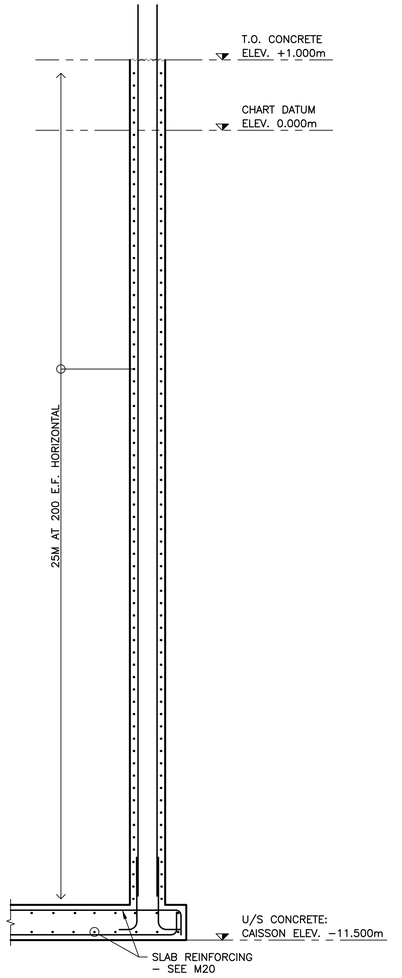
Sub Consultant

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G.K. PETERS
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10/23/2025
NT/NU

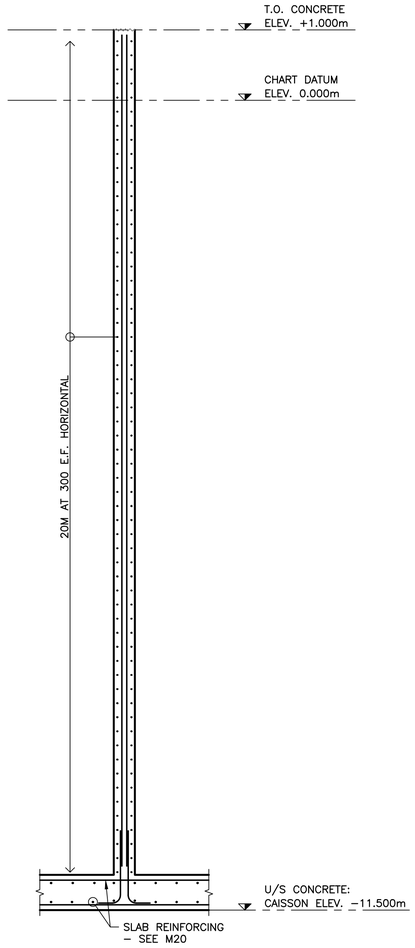
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Date	Scale
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Sheet No	
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Drawing No	
M21	

DRAWING NAME: Y:\HALIFAX\DATA\PROJECTS\2023\234414.00 GOV OF NU A&E MARINE INFRASTRUCTURE\44 CAD\03 STRUCT\234414.00 M20 CAISSON REINFORCING PLANS AND SECTIONS.DWG LAYOUT NAME: M21 PLOT DATE: October 24, 2025 12:25:26 PM CAD OPERATOR: SGRACE

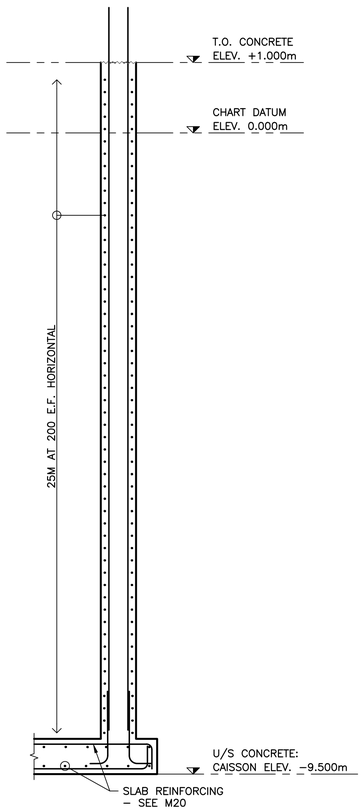
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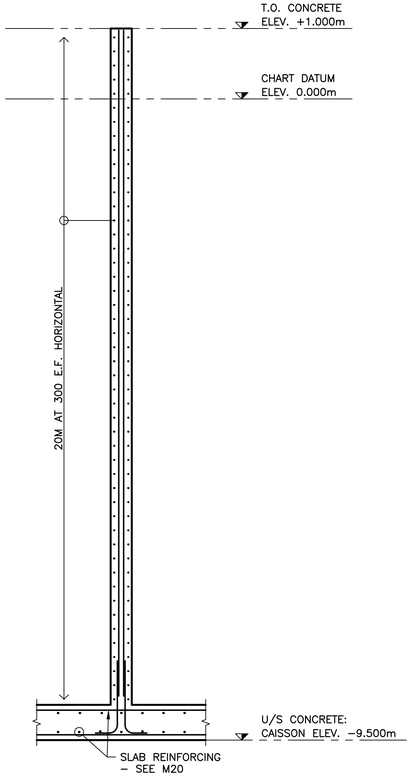
A M20 SECTION CAISSON END BAY REINFORCING (CAISSON No. 1 TO 3)
1:40



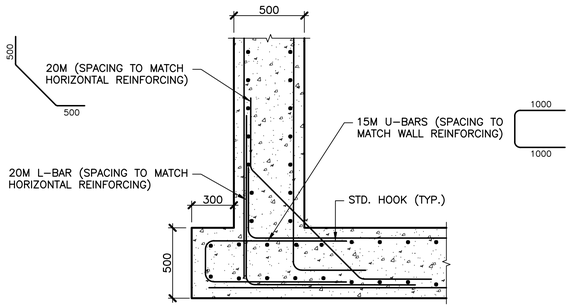
B M20 SECTION SPLAY WALL REINFORCING (CAISSON No. 1 TO 3)
1:40



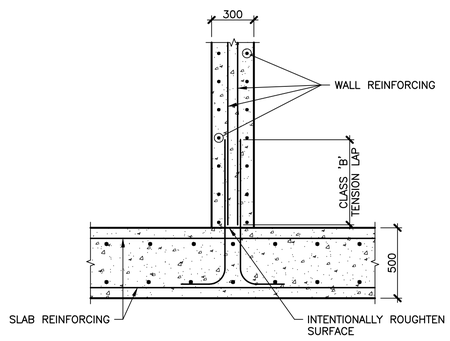
C M21 SECTION CAISSON END BAY REINFORCING (CAISSON No. 4 TO 5)
1:40



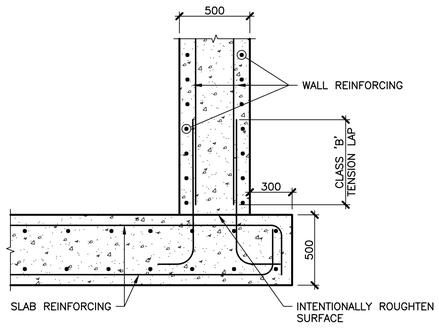
D M21 SECTION SPLAY WALL REINFORCING (CAISSON No. 4 TO 5)
1:40



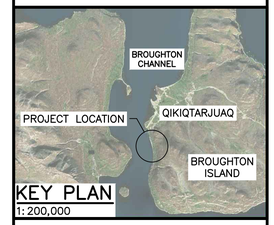
1 M19 DETAIL CORNER CAISSON WALL REINFORCEMENT
1:20



2 M20 DETAIL TYPICAL BASE SLAB AND INTERIOR CAISSON WALL CONNECTION
1:20



3 M20 DETAIL TYPICAL BASE SLAB AND EXTERIOR CAISSON WALL CONNECTION
1:20



NOTES:
1. SEE NOTES ON DRAWING M01

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GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

MARINE

CAISSON REINFORCING SECTIONS AND DETAILS

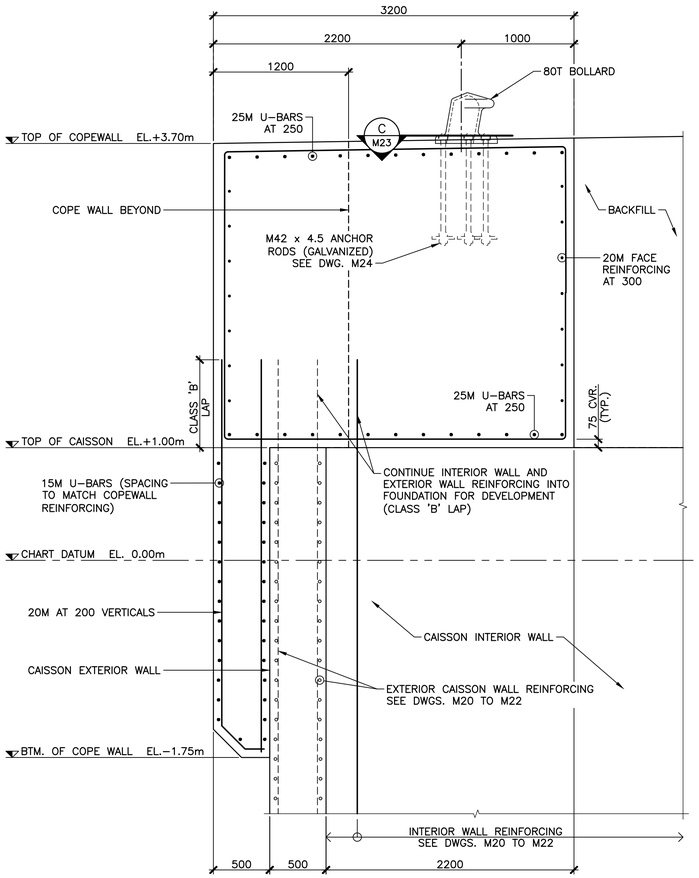
Prime Consultant

CBCL

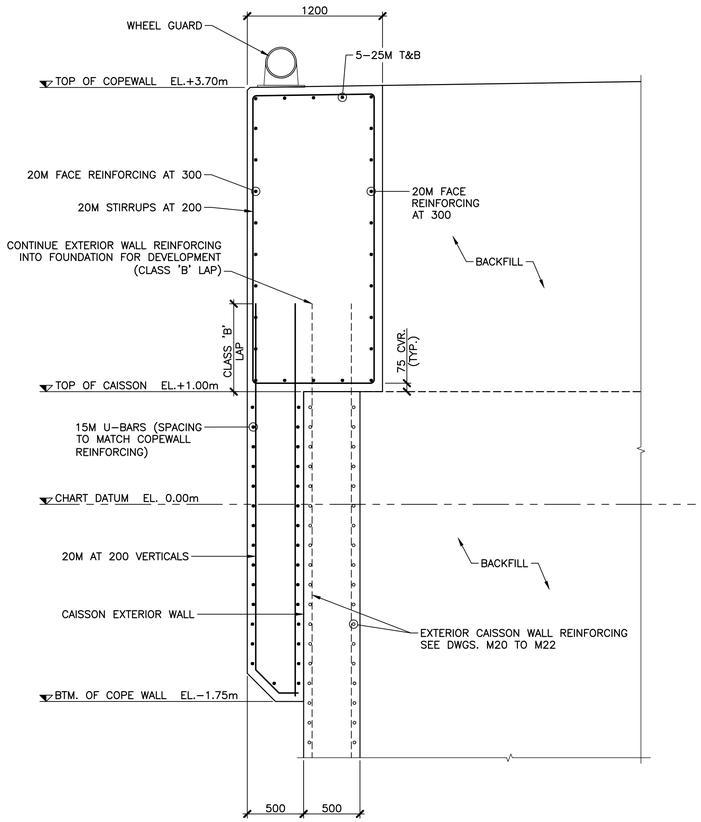
Sub Consultant

REGISTERED PROFESSIONAL ENGINEER
G.K. PETERS
LICENSEE
10/23/2025
NT/NU

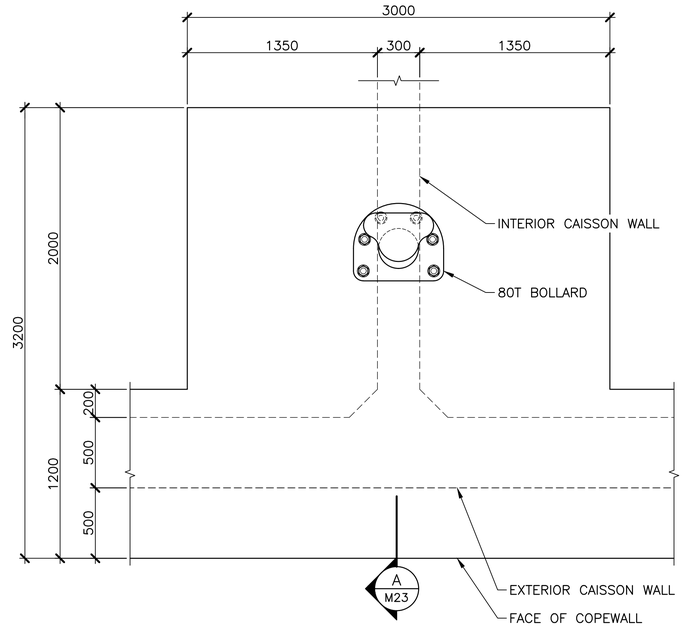
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Date MAR. 2025	Scale AS NOTED
Designed JEF	Drawn STG
Checked GKP	Approved DDP
Sheet No 22 of 28	
Drawing No M22	



A M17 SECTION – BOLLARD FOUNDATION ON DECK
1:25

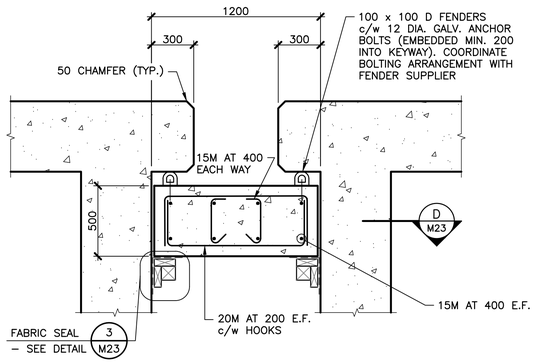


B M17 SECTION – CONCRETE COPEWALL
1:25



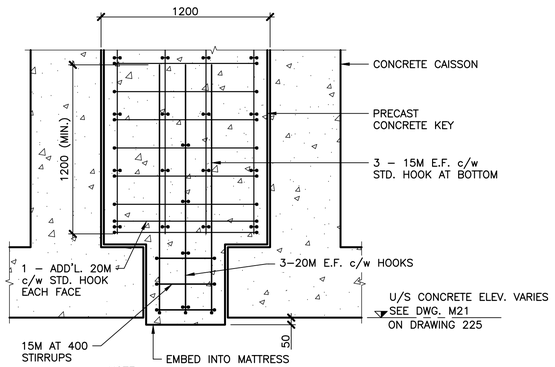
PLAN – BOLLARD FOUNDATION ON DECK
1:25

C M23 SECTION – BOLLARD ANCHOR REINFORCING
1:25



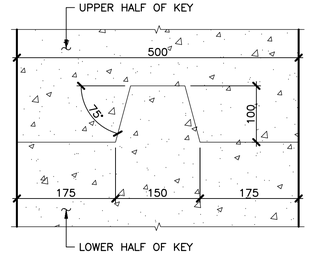
NOTE:
KEYS TO BE MADE TIGHT AND SEALED WITH COURSE GEOTEXTILE ON TOP, BOTTOM, AND SIDES TO PREVENT FILL LOSS.

1 M17 DETAIL – PRECAST CONCRETE KEY
1:20 (QUANTITY – 4)



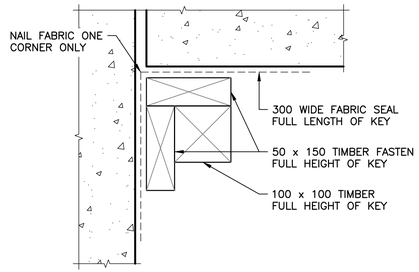
NOTE:
PRECAST CONCRETE KEYS WHERE INSTALLED IN TWO EQUAL VERTICAL LENGTHS – SEE DETAIL 2/M23

D M23 SECTION – PRECAST CONCRETE KEY
1:20

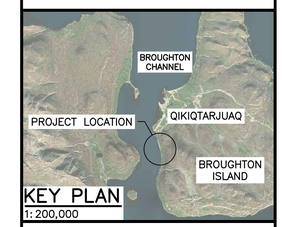


NOTE:
VERTICAL REINFORCING TERMINATED WITH A STANDARD HOOK EACH SIDE OF JOINT.

2 M23 DETAIL PRECAST CONCRETE KEY
1:5



3 M23 DETAIL FABRIC SEAL
1:5



NOTE:
1. SEE NOTES ON DRAWING M01.

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GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

MARINE

KEYWAY AND COPEWALL SECTIONS

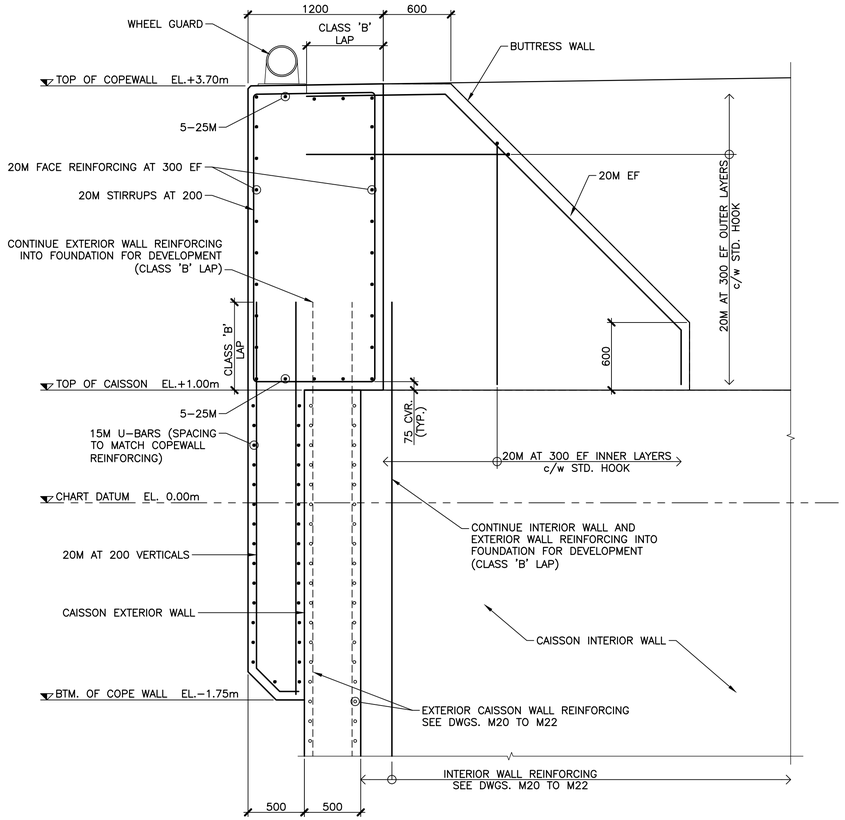
Prime Consultant

CBCL

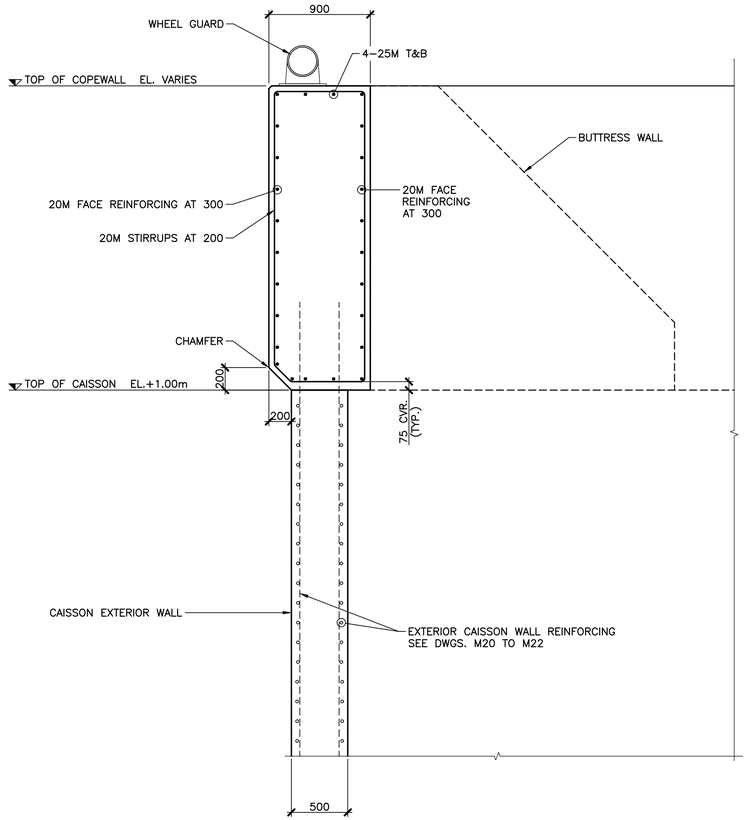
Sub Consultant

REGISTERED PROFESSIONAL ENGINEER G.K. PETERS LICENSEE 10/23/2025 NTNU

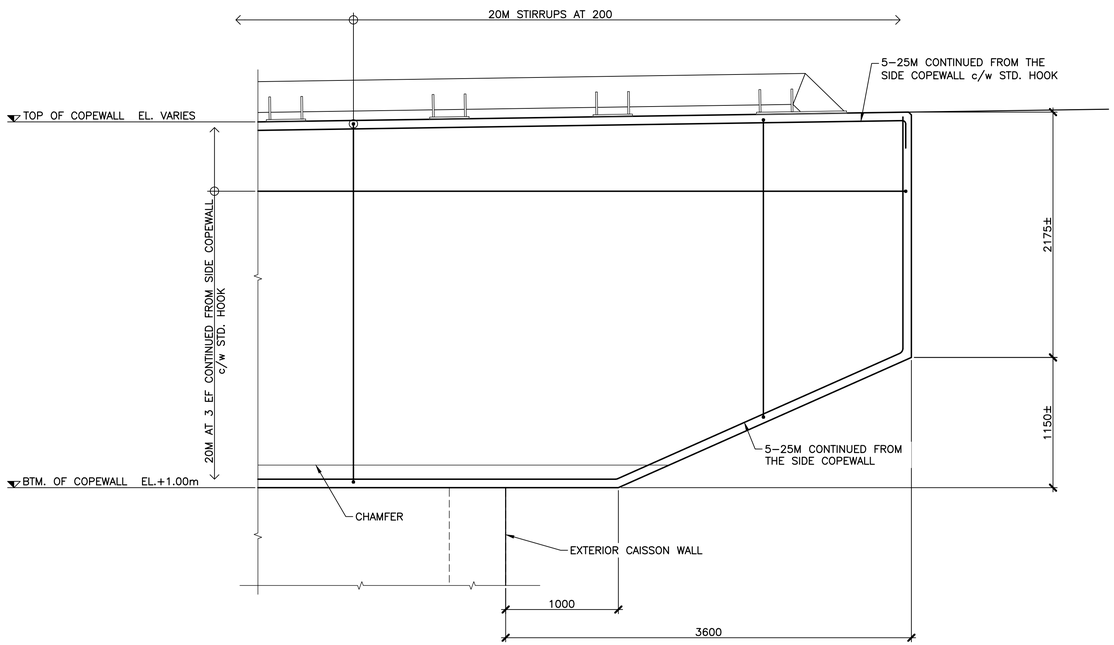
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234414	22205-00762
Date: MAR. 2025	Scale: AS NOTED
Designed: JEF	Drawn: STG
Checked: GKP	Approved: DDP
Sheet No: 23 of 28	
Drawing No: M23	



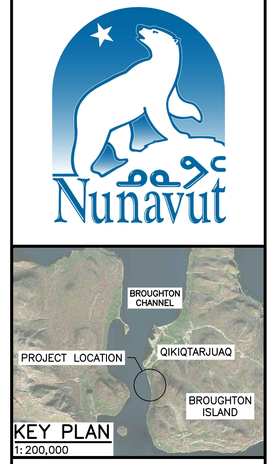
A M17 SECTION – CONCRETE COPEWALL AND COUNTERFORT
1:25



B M17 SECTION – CONCRETE COPEWALL AND COUNTERFORT
1:25



1 M17 DETAIL – CANTILEVER SIDE CONCRETE COPEWALL
1:25



NOTE:
1. SEE NOTES ON DRAWING M01.

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GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

MARINE

REINFORCING SECTIONS AND DETAILS

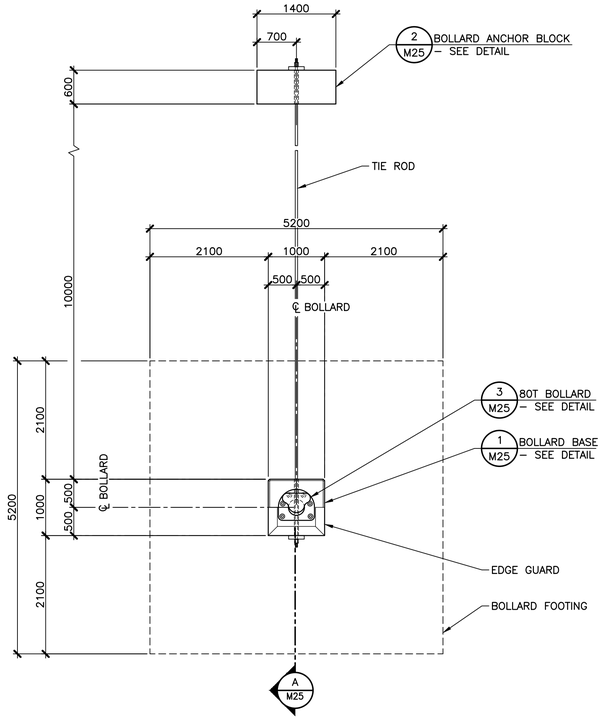
Prime Consultant

CBCL

Sub Consultant

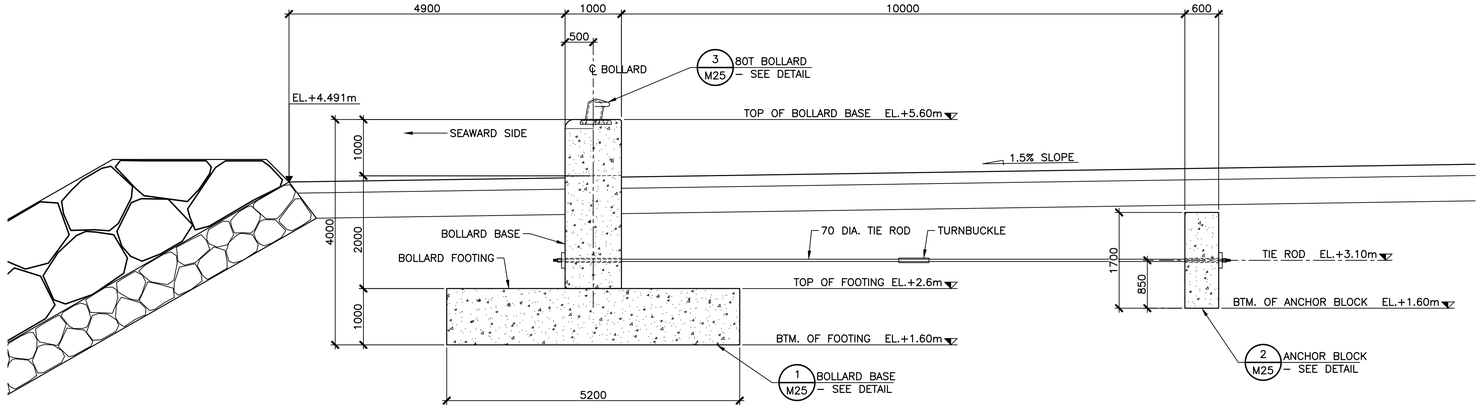
REGISTERED PROFESSIONAL ENGINEER
G.K. PETERS
LICENSEE
10/23/2025
NT/NU

CBCL No	Contract No
234414	22205-00762
Date	Scale
MAR. 2025	AS NOTED
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Checked	Approved
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Sheet No	
24 of 28	
Drawing No	
M24	



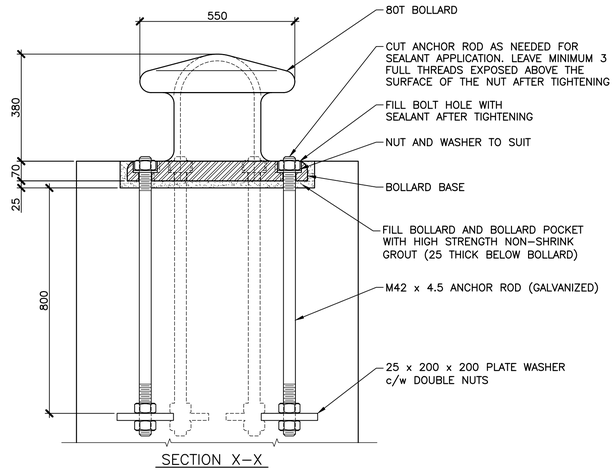
PLAN – BOLLARD FOUNDATION

SCALE: 1:50

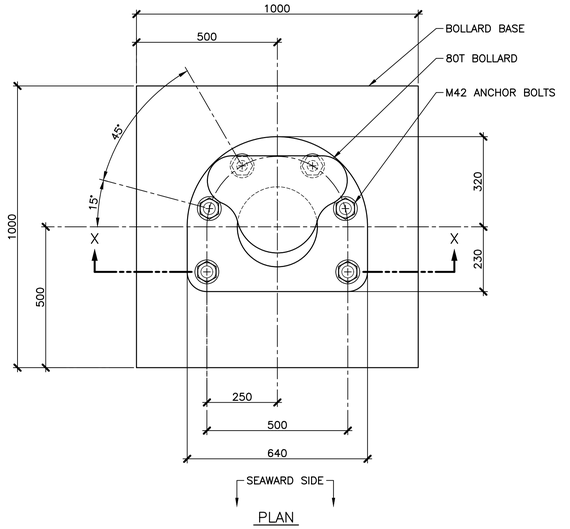


A M25 SECTION – BOLLARD FOUNDATION

SCALE: 1:50



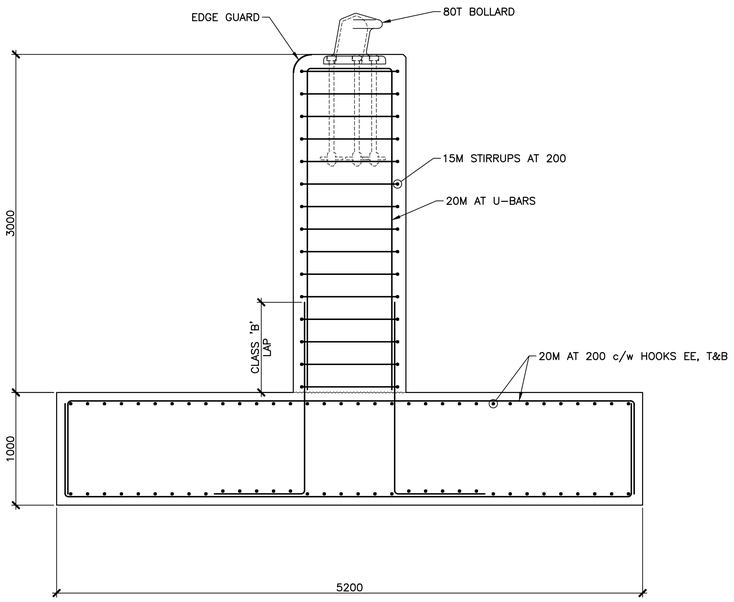
SECTION X–X



PLAN

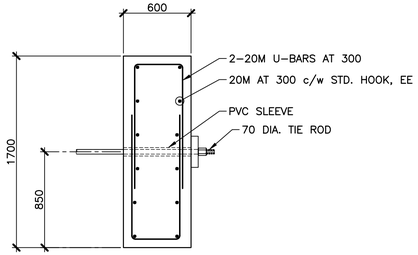
3 M25 DETAIL – 80T BOLLARD ANCHORAGE

SCALE: 1:10



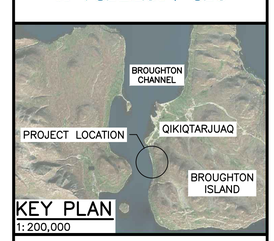
1 M25 DETAIL – BOLLARD ANCHOR AND FOUNDATION REINFORCEMENT

SCALE: 1:25



2 M25 DETAIL – BOLLARD ANCHOR BLOCK

SCALE: 1:25



KEY PLAN
1: 200,000

NOTES:

1. SEE NOTES ON DRAWING M01

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GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

MARINE

BOLLARD PLAN SECTIONS AND DETAILS

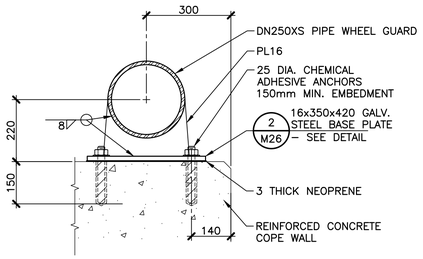
Prime Consultant

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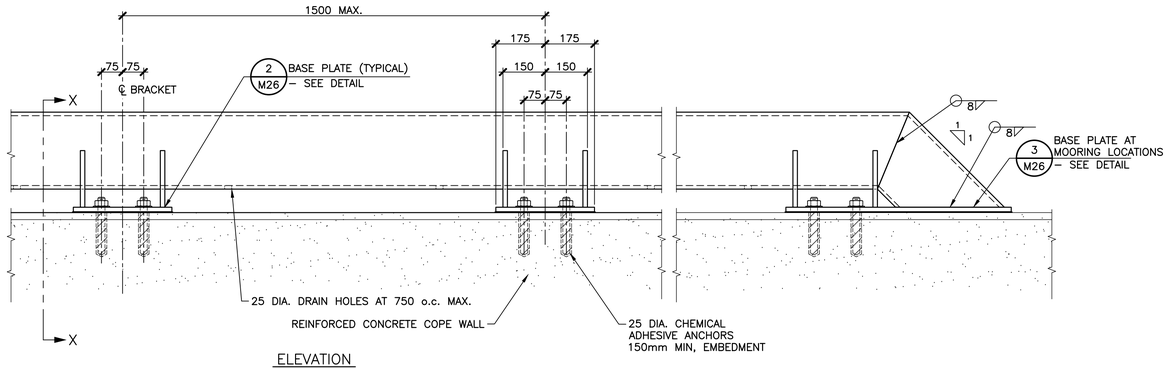
Sub Consultant

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234414	22205-00762
Date	Scale
MAR. 2025	AS NOTED
Designed	Drawn
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Drawing No	
M25	



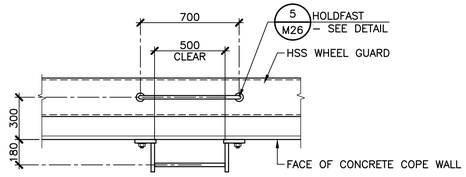
SECTION X–X



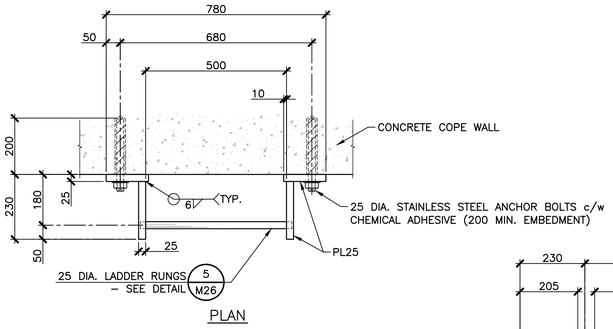
ELEVATION

1 M17 DETAIL TYPICAL PIPE WHEEL GUARD FASTENING

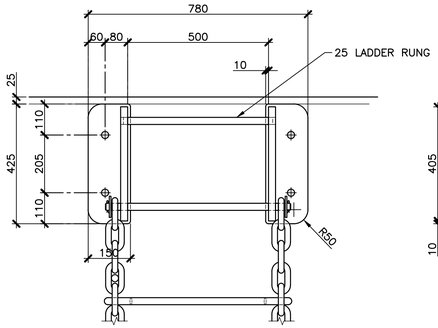
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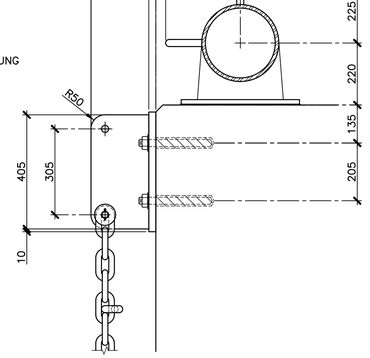
PLAN



PLAN



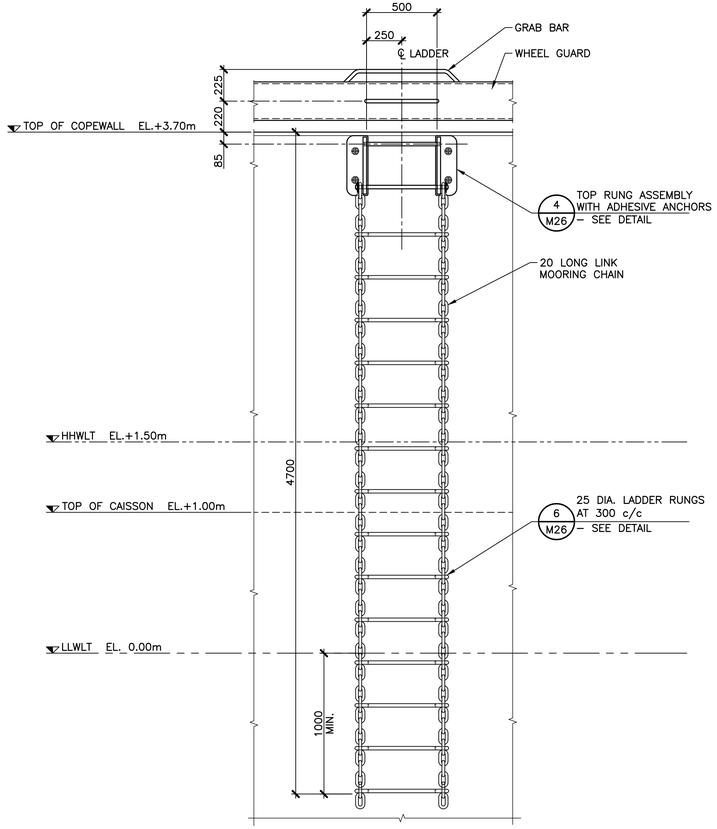
ELEVATION



SIDE

4 M26 DETAIL – TOP LADDER RUNG ASSEMBLY

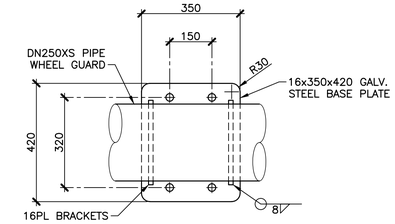
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ELEVATION

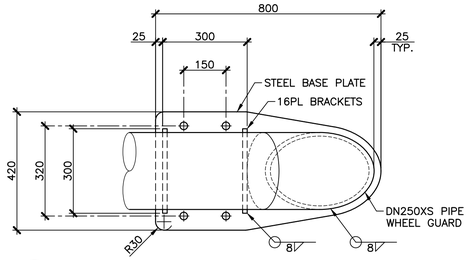
4 M17 DETAIL – LADDER INSTALLATION

SCALE: 1:20



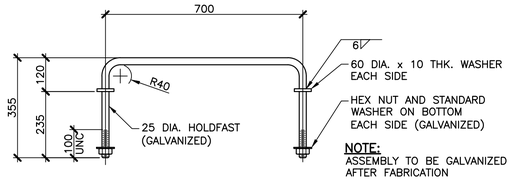
2 M27 DETAIL TYPICAL WHEEL GUARD BASE PLATE

SCALE: 1:10



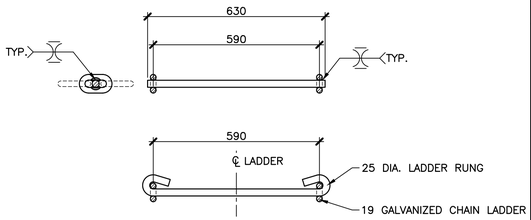
3 M26 DETAIL WHEEL GUARD BASE PLATE AT BOLLARDS

SCALE: 1:10



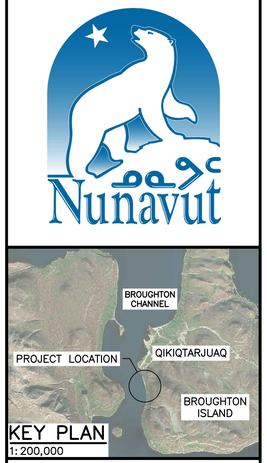
5 M26 DETAIL – HOLDFAST

SCALE: 1:10



6 M26 DETAIL – LADDER RUNG OPTIONS

SCALE: 1:5



NOTES:

1. SEE NOTES ON DRAWING M01

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QIKIQTARJUAQ MARINE INFRASTRUCTURE

MARINE

MISCELLANEOUS DETAILS
1 OF 3

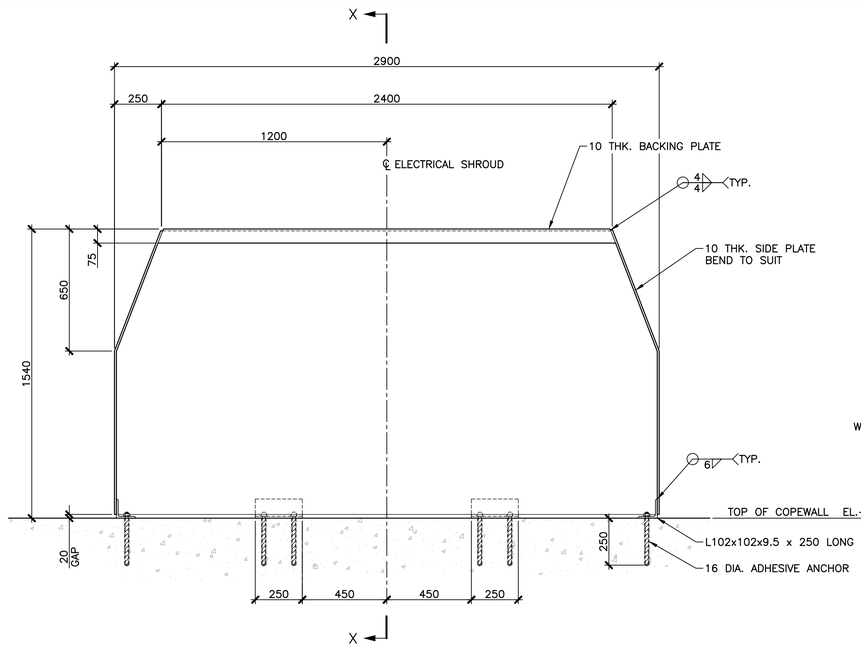
Prime Consultant

CBCL

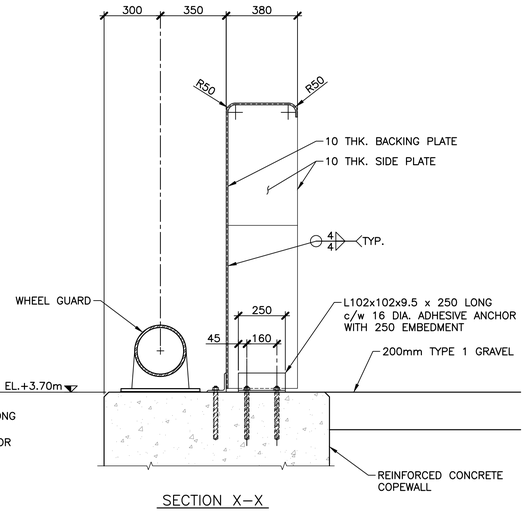
Sub Consultant

REGISTERED PROFESSIONAL ENGINEER
G.K. PETERS
LICENSEE 10/23/2025
NT/NU

CBCL No 234414	Contract No 22205-00762
Date MAR. 2025	Scale AS NOTED
Designed JEF	Drawn STG
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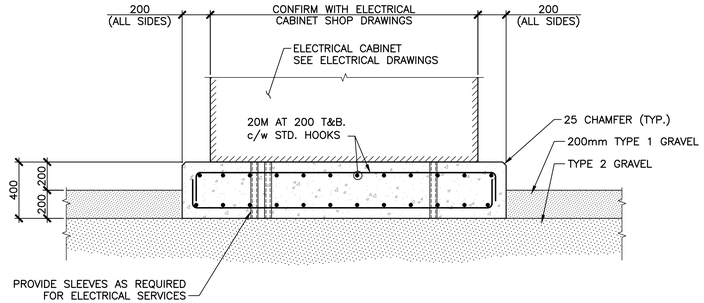


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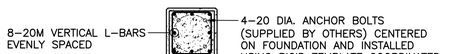


SECTION X–X

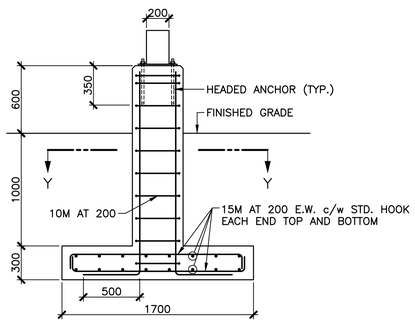
1/- DETAIL – TYPICAL STEEL ELECTRICAL SHROUD
SCALE: 1:15



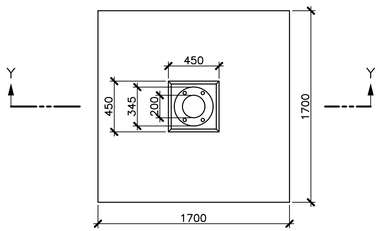
2/- DETAIL – ELECTRICAL CABINET FOUNDATION
SCALE: 1:20



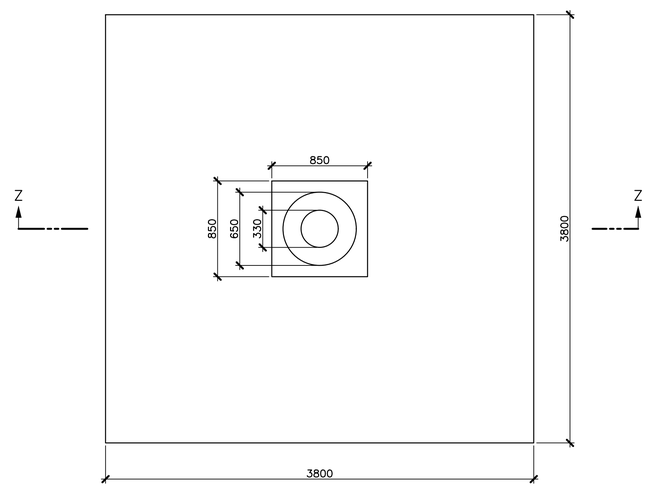
PLAN Y–Y



ELEVATION Y–Y

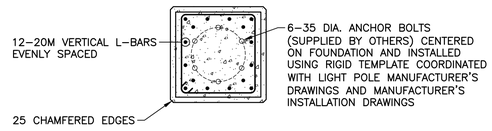


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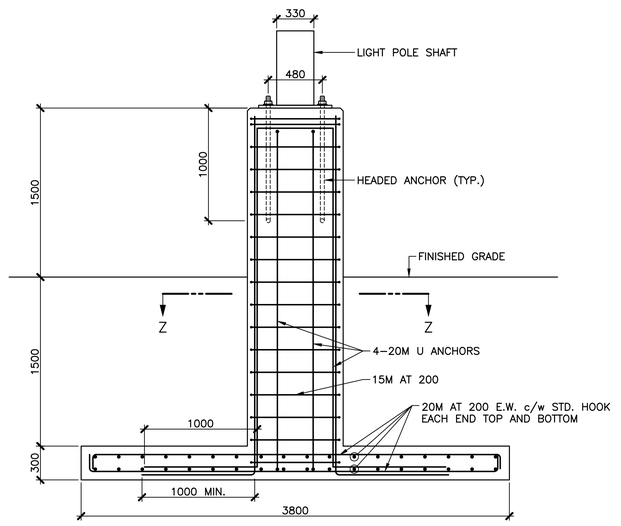


PLAN

3/M27 DETAIL – LIGHT POLE (TYPE 1)
SCALE: 1:25

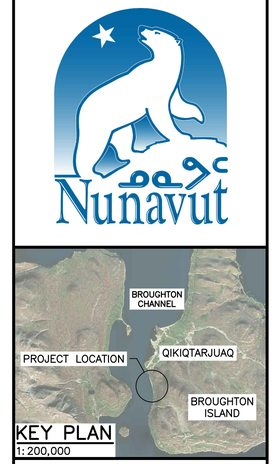


PLAN Z–Z



ELEVATION Z–Z

4/M27 DETAIL – LIGHT POLE (TYPE 2)
SCALE: 1:25



KEY PLAN
1: 200,000

NOTES:
1. SEE NOTES ON DRAWING M01

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No.	Description	Date	By
0	ISSUED FOR TENDER	OCT 23/25	JEF

Revision or Issue

PERMIT TO PRACTICE
CBCL Limited
Signature
Date 2025-10-24
PERMIT NUMBER: P1441
NT/NU Association of Professional Engineers and Geoscientists

GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

MARINE

MISCELLANEOUS DETAILS 2 OF 3

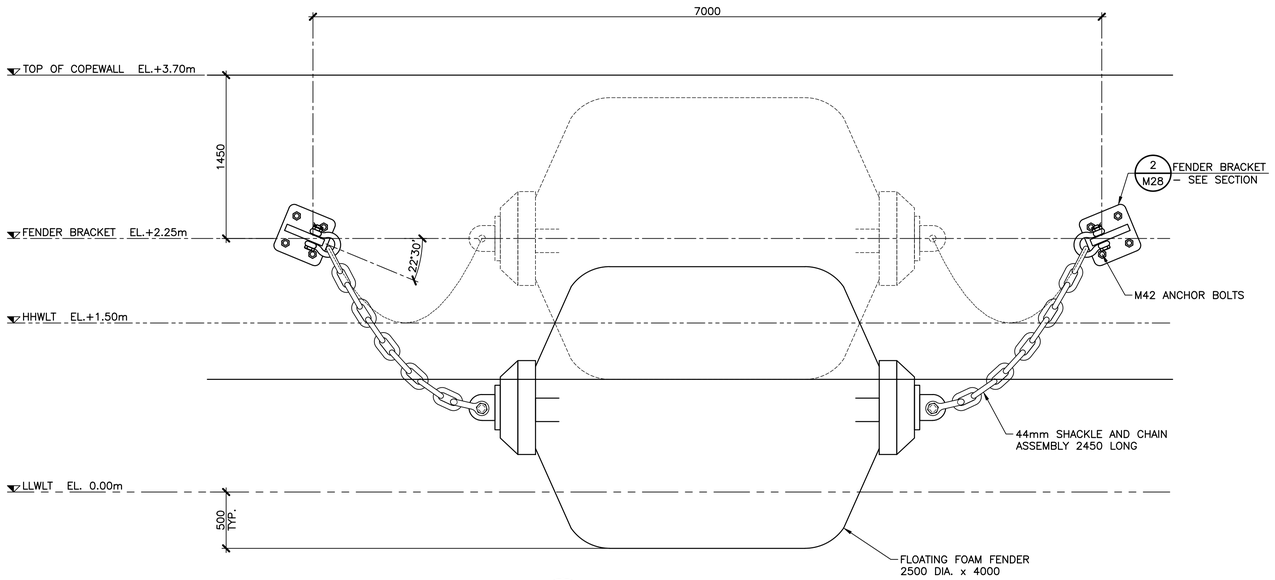
Prime Consultant

CBCL

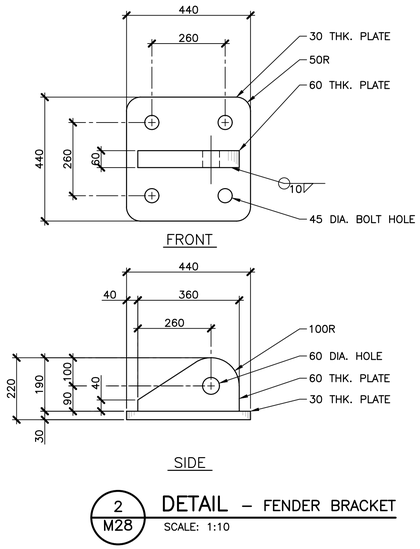
Sub Consultant

REGISTERED PROFESSIONAL ENGINEER
G.K. PETERS
LICENSEE
10/23/2025
NT/NU

CBCL No	Contract No
234414	22205-00762
Date	Scale
MAR. 2025	AS NOTED
Designed	Drawn
JEF	STG
Checked	Approved
GKP	DDP
Sheet No	
27 of 28	
Drawing No	
M27	

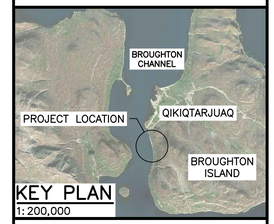


1 M11 **DETAIL – FOAM FENDERS**
SCALE: 1:25



2 M28 **DETAIL – FENDER BRACKET**
SCALE: 1:10

Nunavut



NOTES:
1. SEE NOTES ON DRAWING M01

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GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

MARINE

MISCELLANEOUS DETAILS
3 OF 3

Prime Consultant

CBCL

Sub Consultant

REGISTERED PROFESSIONAL ENGINEER
G.K. PETERS
LICENSEE
10/23/2025
NTNU

CBCL No 234414	Contract No 22205-00762
Date MAR. 2025	Scale AS NOTED
Designed JEF	Drawn STG
Checked GKP	Approved DDP
Sheet No 28 of 28	
Drawing No **M28**	

Item	2015 National Building Code of Canada Matrix								NBCC Reference
									☐ Part 3 ■ Part 9
1	**Project Description:** OFFICE BUILDING							■ New ☐ Addition ☐ Alteration ☐ Change of Use	
2	**Major Occupancy(s)**	Group D, up to 1 story							A-1.4.1.2.
3	**Building Area (m²)**							Total: 133 m²	
4	**Gross Area (m²)**							Total: 133 m²	
5	**Number of Storeys**	Above Grade: 1							
6	**Height of Building (m)**	5.4m							
7	**Number of Streets/Access Routes**							■ 1 Street ☐ 2 Streets ☐ 3 Streets	9.10.2.1.
8	**Building Classification**	Group D, 1 Story							9.10.2.1.
9	**Sprinkler System Proposed** NFPA 13 ☐							☐ Entire Building ☐ Basement Only ☐ In Lieu of Roof Rating ■ Not Required	9.10.2.1.
10	**Standpipe Required**							☐ Yes ■ No	3.2.5.8.(1)
11	**Fire Alarm Required**							☐ Yes ■ No	9.10.18.2.
12	**Water Service/Supply Adequate**							■ Yes ☐ No	3.2.5.7.(1)
13	**High Building**							☐ Yes ■ No	3.2.6.1
14	**Construction**	Combustible Allowed:						☐ Yes ■ No	
		Proposed:						■ Combustible ☐ Noncombustible ☐ Both	9.10.2.1.
16	**Occupant Load** 1st Floor	9.3 m²/person / 87m² = **9 occupants**						■ m²/person ☐ Design of Building	3.1.17.1(1)
17	**Travel Distance (m)**							25m	9.9.7.4
18	**Washroom: Number of Fixtures**							1 W.C	3.7.2.2.(4)
19	**Barrier Free Design**							■ Yes ☐ No	9.5.2.1.
20	**Conceal Space (Floor/Ceiling Used as a Plenum)**							☐ Yes ■ No	A-1.4.1.2.
21	**Crawlspace Considered to be a Basement**							☐ Yes ■ No	9.10.8.9.
22	**Hazardous Substances**							☐ Yes ■ No	
23	**Additional Fire Separations Required** Mechanical Room							1 Hour	9.10.10.3
	Janitor Room							1 Hour	9.10.10.4
24	**Required Fire Resistance Rating (FRR)**	Assemblies FRR					Listing Design No. or Description		
		Floors: -							Table 9.10.8.1.
		Supporting Members FRR					Listing Design No. or Description		
		Beams: - Columns: - Other: -							Table 9.10.8.1.
25	**Spatial Separation - Construction of Exterior Walls**								Table 9.10.14.4 -A

Wall	Area of EBF (m²)	L.D. (m) *Halved	L/H or H/L Ratio	Permitted Max % of Unprotected Openings	Proposed % of Unprotected Openings	FRR (Hours)	Listed Design or Descrip.	Noncombustible Required: Construction	Noncombustible Required: Cladding
North	68.3	4.5 m	3.4 : 1	28%	13%	.75	N/A	No	No
South	68.3	3 m	3.4 : 1	17%	14 %	1	N/A	No	Yes
East	49.7	3 m	3.4 : 1	19%	13%	1	N/A	No	Yes
West	37.5	10.9 m	1.3 : 1	100%	8%	.75	N/A	No	No

26	**Provisions for Firefighting - 15 minutes**	

EXTERIOR ASSEMBLIES

WALLS

EXTERIOR WALL - W1 RSI REQUIRED*: **5.6** RSI CALCULATED: **7.69**

22mm VERTICAL CORRUGATED METAL SIDING
20mm HORIZONTAL Z CLIP @ 405mm O/C
WEATHER BARRIER
DOUBLE LAYER OF 102mm THICK XPS BOARD INSULATION
THERMALLY BROKEN CLIP @405mm HORIZONTALLY AND 1220mm VERTICALLY
SELF-ADHERED ACRYLIC A/V BARRIER
16mm PLYWOOD SHEATHING
DOUBLE 38X140 M/M STUDS @ 400mm OC *1H FRR - Appendix D NBC 2015*
16mm TYPE X GWB PAINTED

EXTERIOR WALL - W2 RSI REQUIRED*: **5.6** RSI CALCULATED: **7.69**

VERTICAL STANDING SEAM METAL SIDING
20mm HORIZONTAL Z CLIP @405mm OC
WEATHER BARRIER
12mm PRESSURE TREATED PLYWOOD
DOUBLE LAYER OF 102mm THICK XPS BOARD INSULATION
THERMALLY BROKEN CLIP @405mm HORIZONTALLY AND 1220mm VERTICALLY
SELF-ADHERED ACRYLIC A/V BARRIER
16mm PLYWOOD SHEATHING
DOUBLE 38X140 mm STUDS @ 400mm O/C *1H FRR - Appendix D NBC 2015*
16mm TYPE X GWB PAINTED

EXTERIOR WALL - W3

38x89mm PRESSURE TREATED WOOD FRAMING @610mm O/C
50X50mm GALVANIZED WIRE MESH

FLOORS

MAIN FLOOR RSI REQUIRED*: **7.7** RSI CALCULATED: **7.7**

FINISHED FLOOR
19 mm T&G PLYWOOD SUBFLOOR. GLUED AND SCREWED.
76 X198mm FLOOR JOIST @ 300mm O/C (SEE STRUCTURAL DOCUMENTS)
13 mm PLYWOOD SHEATHING
SELF -ADHERED ACRYLIC A/V BARRIER
TWO LAYERS OF 102 mm THICK XPS INSULATION W/ THERMALLY BROKEN CLIP @405mm HORIZONTALLY AND 1220mm VERTICALLY
20mm Z CLIP @600mm OC
9 mm PRESSURE TREATED PLYWOOD SOFFIT

ROOFS

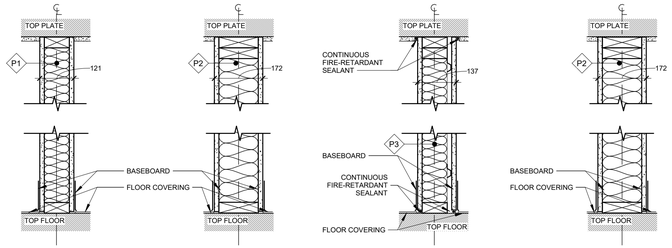
ROOF R1 RSI REQUIRED: **8.75*** RSI CALCULATED: **9.65**

13 mm STANDING SEAM METAL ROOFING
BREATHABLE SELF-ADHERED WATERPROOFING MEMBRANE
12mm PLYWOOD SHEATHING
ONE LAYER OF 50 mm THICK XPS INSULATION
TWO LAYERS OF 102 mm THICK XPS INSULATION
SELF -ADHERED ACRYLIC A/V BARRIER
16 mm PLYWOOD SHEATHING
ROOF RAFTER 2 OR 3 PLY 38X286 mm @ 300 mm OC SEE STRUCTURAL
75 mm X 38 mm@ 406 mm OC WOOD STRAPPING PERPENDICULAR TO JOIST16 mm
GWB PAINTED

RSI ARE REQUIRED ACCORDING TO GOOD BUILDING PRACTICES OF NUNAVUT EDITION 2020

INTERIOR ASSEMBLIES

INTERIOR PARTITION



P1 - INTERIOR PARTITION STC 36

- 16 mm GWB PAINTED
- R12 ACOUSTIC BATT INSULATION
- 38X89 mm WOOD STUDS @ 406 mm OC
- 16 mm PAINTED GWB PAINTED

P2 - PLUMBING and STRUCTURAL INTERIOR PARTITION STC 36

- 16 mm GWB* PAINTED
- R20 ACOUSTIC BATT INSULATION
- 38X140 mm WOOD STUDS @ 406 mm OC
- 16 mm GWB* PAINTED

*** USE WATER RESISTANT GWB FOR ALL THE WALLS WHICH HAVE PLUMBING FIXTURES OR IS A WET AREA.**

P3 - INTERIOR PARTITION 1H FR (W3a) STC 45

- 16 mm TYPE X GWB PAINTED
- R20 BATT INSULATION
- 38X140 mm WOOD STUDS @ 406 mm OC
- RESILIENT CHANEL 13 mm GALV. @600 O/C
- 16 mm TYPE X GWB PAINTED

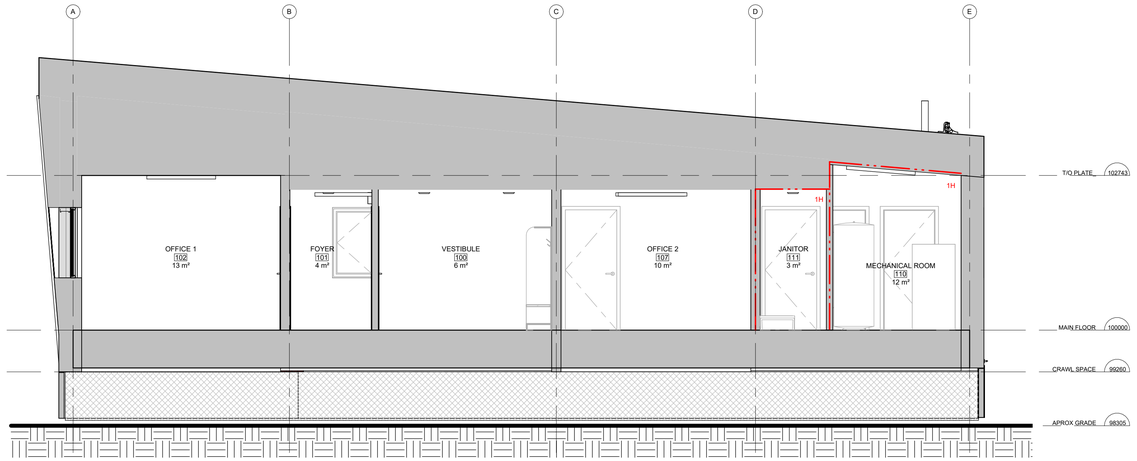
P4 - INTERIOR PARTITION STRUCTURAL 1H FR INTERIOR PARTITION STC 36

- 16 mm GWB* PAINTED
- R20 ACOUSTIC BATT INSULATION
- 38X140 mm WOOD STUDS @ 406 mm OC
- 16 mm GWB* PAINTED

*** USE WATER RESISTANT GWB FOR ALL THE WALLS WHICH HAVE PLUMBING FIXTURES OR IS A WET AREA.**

NOTE

KEEP ACOUSTIC BATT INSULATION 50mm AWAY FROM EXTERIOR SHEATING



3 FIRE SEPERATION DIAGRAM
1 : 50



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Revision or Issue

GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

ARCHITECTURAL

CODE MATRIX AND ASSEMBLIES

Prime Consultant

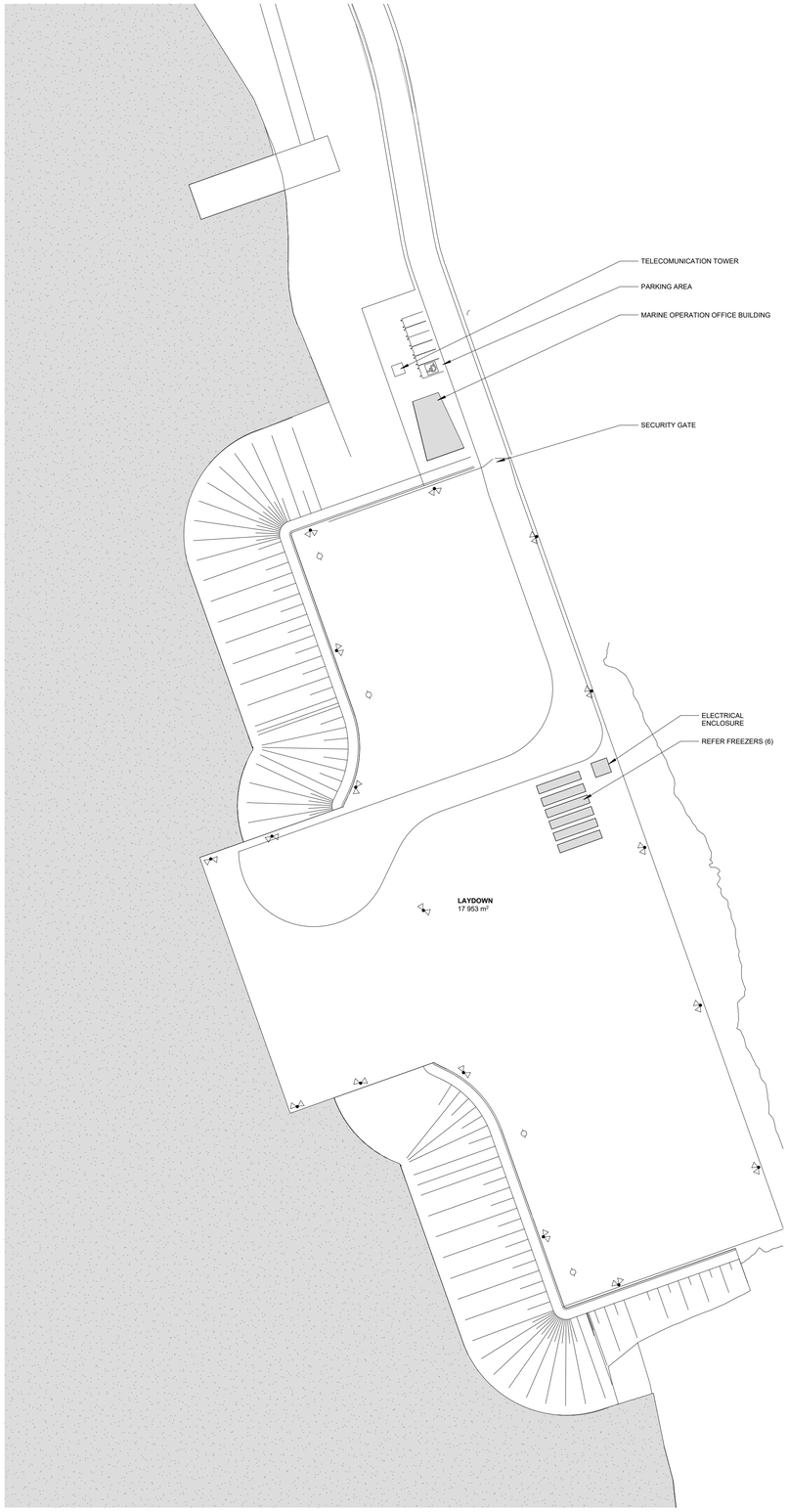
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Sub Consultant

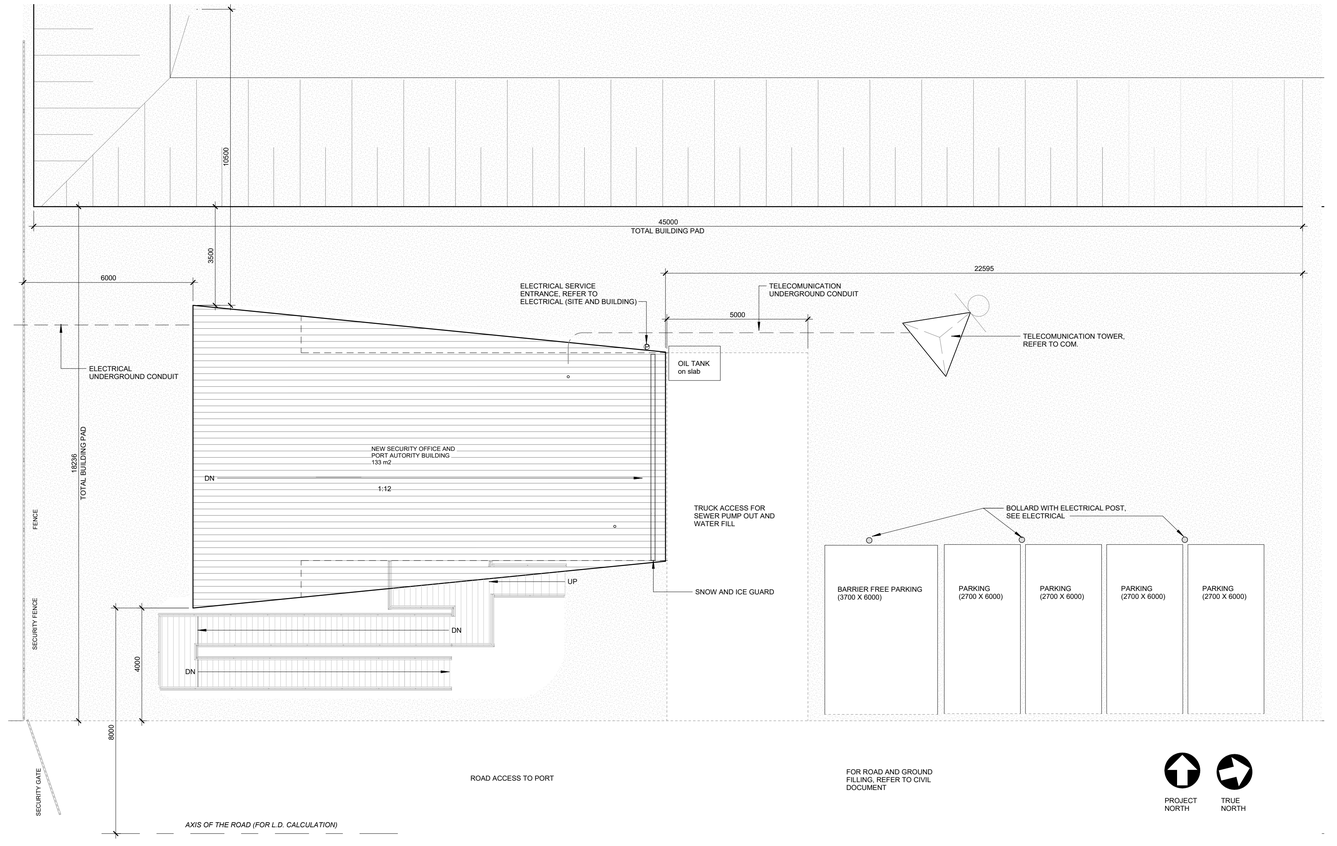
GUY ARCHITECTS
ARCHITECTURE . ENGINEERING . INTERIORS

NORTHWEST TERRITORIES ASSOCIATION OF ARCHITECTS INCORPORATED 2001
R. WAYNE GUY ARCHITECT
23/10/25

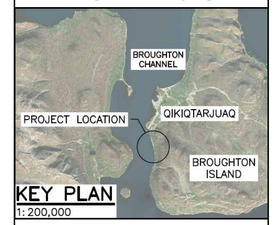
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Date 2025-09-11	Scale As Noted
Designed RWG	Drawn SG
Checked RWG	Approved DDP
Sheet No 2 of 13	
Drawing No A001	



1 SITE_PLAN
1 : 750



2 SITE PLAN
1 : 100



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GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

ARCHITECTURAL

CONTEXT
SITE PLAN

Prime Consultant

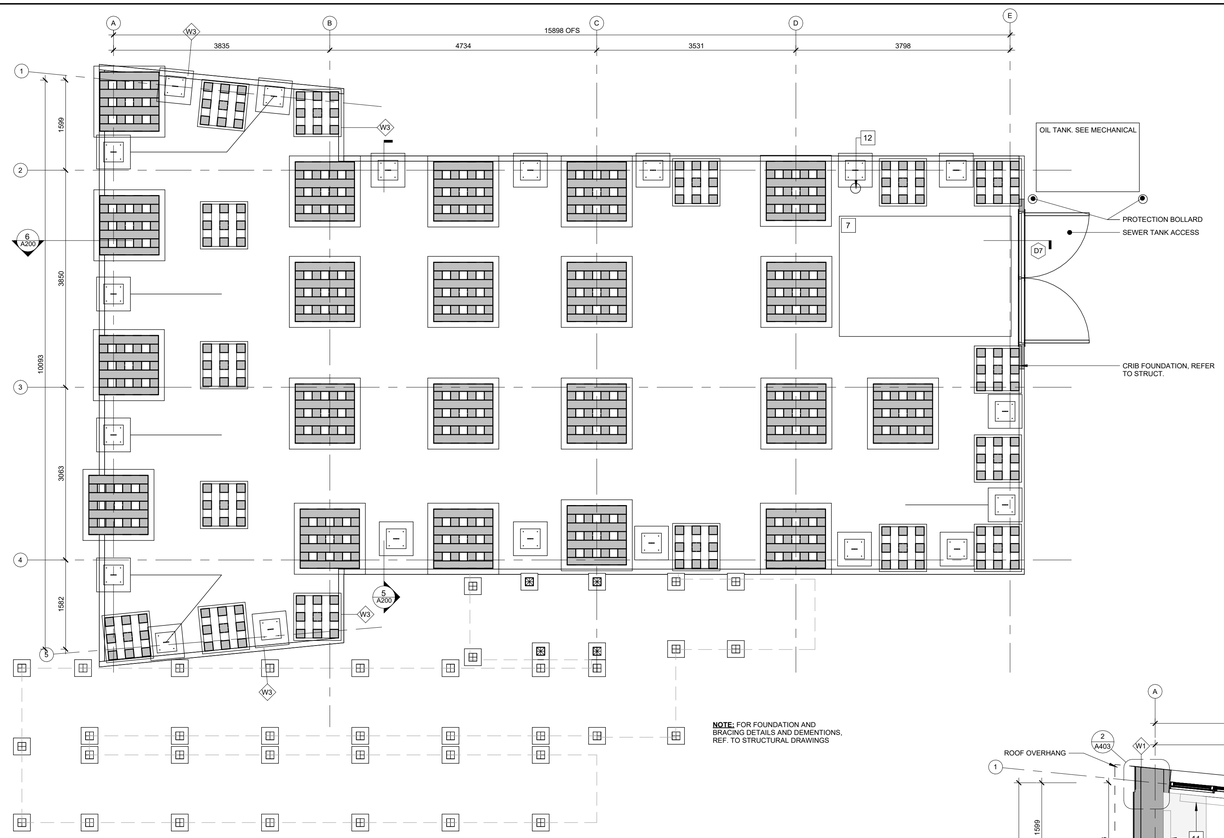
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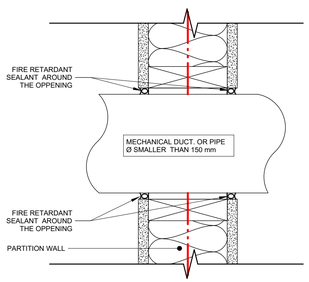
R. WAYNE GUY ARCHITECT 23/10/25

GA no. #23052	Contract No 22205-00762
Date 2025-09-11	Scale As Noted
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Drawing No A100	

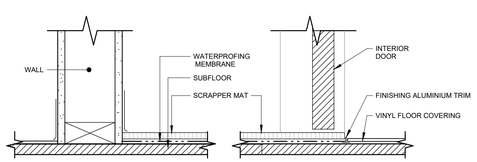


NOTE: FOR FOUNDATION AND BRACING DETAILS AND DEMENTIONS, REF. TO STRUCTURAL DRAWINGS

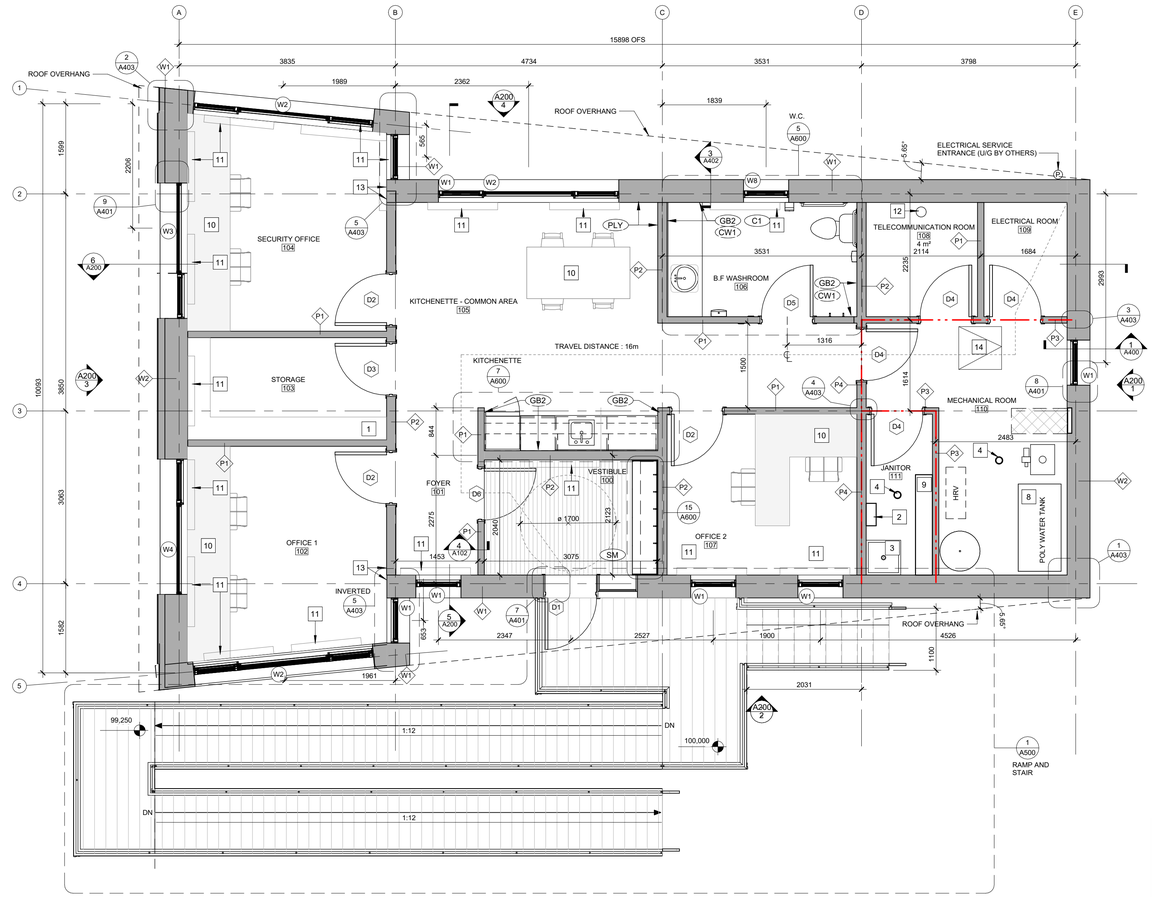
1 OFFICE BUILDING - CRAWLED SPACE
1 : 50



3 WALL PENETRATION - FIRE WALL SEPARATION TYP.
1 : 5



4 SCRAPPER MAT DETAIL TYP.
1 : 5



2 OFFICE BUILDING - GROUND FLOOR PLAN
1 : 50

PROJECT NORTH

TRUE NORTH

ROOM FINISH SCHEDULE

ROOM No.	ROOM NAME	CEILING	BASE	WALL	FLOOR
100	VESTIBULE	GC	VB	GB1	SM
101	FOYER	GC	VB	GB1	VY
102	OFFICE 1	GC	VB	GB1 + PLY	VY
103	STORAGE	GC	VB	GB1	VY
104	SECURITY OFFICE	GC	VB	GB1 + PLY	VY
105	KITCHENETTE - COMMON AREA	GC	VB	GB1 + GB2 + PLY	VY
106	B.F WASHROOM	GC	CW1	GWB + CW1	VY
107	OFFICE 2	GC	VB	GB1 + PLY	VY
108	TELECOMMUNICATION ROOM	GC	VB	GB1	VY
109	ELECTRICAL ROOM	GC	VB	GB1	VY
110	MECHANICAL ROOM	GC	VB	GB1	VY
111	JANITOR	GC	VB	GB1	VY

FINISH LEGEND

BASE

- **VB** VINYL BASEBOARD 64mm HIGH
- **CM1** CM1 CERAMIC

CEILING

- **GC** PAINTED GYPSUM BOARD CEILING - COLOUR 1

FLOOR

- (VY) **VINYL FLOOR COVERING**
- (SM) **SCRAPPER MAT**

WALL

- (CW1) **WALL CERAMIC TILE**
- (PLY) **PLYWOOD** PANELS ON WALL
- (GB1) **GYPSUM BOARD** - COLOR 1 (WHITE)
- (GB2) **PAINTED GYPSUM BOARD** - COLOR 2 (RED)

FINISH NOTES

1. ALL FLOOR FINISH CHANGES TO BE DONE AT THE MIDDLE OF THE DOORS OR OPENINGS.
2. WHEN WALLS ARE CERAMIC, END THE CERAMIC TO FLOOR.
3. UNLESS INDICATED OTHERWISE, ALL SURFACE ARE IN PAINTED GYPSUM BOARD COLOUR 1
4. UNLESS INDICATED OTHERWISE, ALL WALL FINISHES ARE INSTALLED EDGE TO EDGE AND FROM FLOOR TO CEILING
5. FLOOR FINISHES NEED TO BE INSTALLED UNDER CABINETRY AND FURNITURES
6. IF NOT INDICATED OTHERWISE, FLOOR FINISH TO BE VINYL FLOORING
7. EXPOSED EDGES TO HAVE STAINLESS TRIM

GENERAL NOTES

1. INSTALLED REINFORCEMENT FOR THE INSTALLATION OF GRAB BARS, ACCESSORIES AND CABINETS

2. IF NOT INDICATED OTHERWISE, DOORS MUST BE INSTALLED 100mm FROM THE NEAREST PERPENDICULAR WALL.

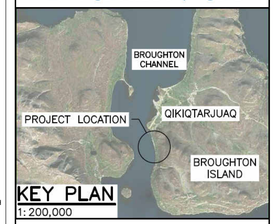
DRAWING LEGEND

- 1 HR FRR
- ROOF OUTLINE

KEY NOTES

1. SHELVING SYSTEM: 4x16 mm PLYWOOD SHELVES, INSTALED AN AJUSTABLE DOUBLE RAIL SYSTEM
2. MOP BASIN WITH SUPPORT AND INOX WALL COVERING
3. JANITOR TUB
4. FLOOR DRAIN
5. WATER TANK, SEE MECHANICAL
6. COLUMN, SEE STRUCTURAL
7. HEATED SEWER TANK, SEE MECHANICAL
8. ACCESS DOOR TO CRAWL SPACE
9. SHELVING SYSTEM :16 mm PLYWOOD SHELVE INSTALLED AT 610 mm FROM FINISHED CEILING ON SHELVING BRACKET.
10. FURNITURE, NOT INCLUDED IN CONTRACT
11. HEATER SEE MECHANICAL
12. TELECOMMUNICATION WIRE POINT OF ENTRY IN THE BUILDING. SEE TELECOM. SEAL OPENING WITH SPRAY FOAM INSULATION CLOSED CELL AND SEALANT.
13. ALIGN WALL FACES
14. INSULATED ACCESS HATCH TO SEWER TANK.

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QIKIQTARJUAQ MARINE INFRASTRUCTURE

ARCHITECTURAL

CRAWLSPACE AND MAIN FLOOR PLAN

Prime Consultant

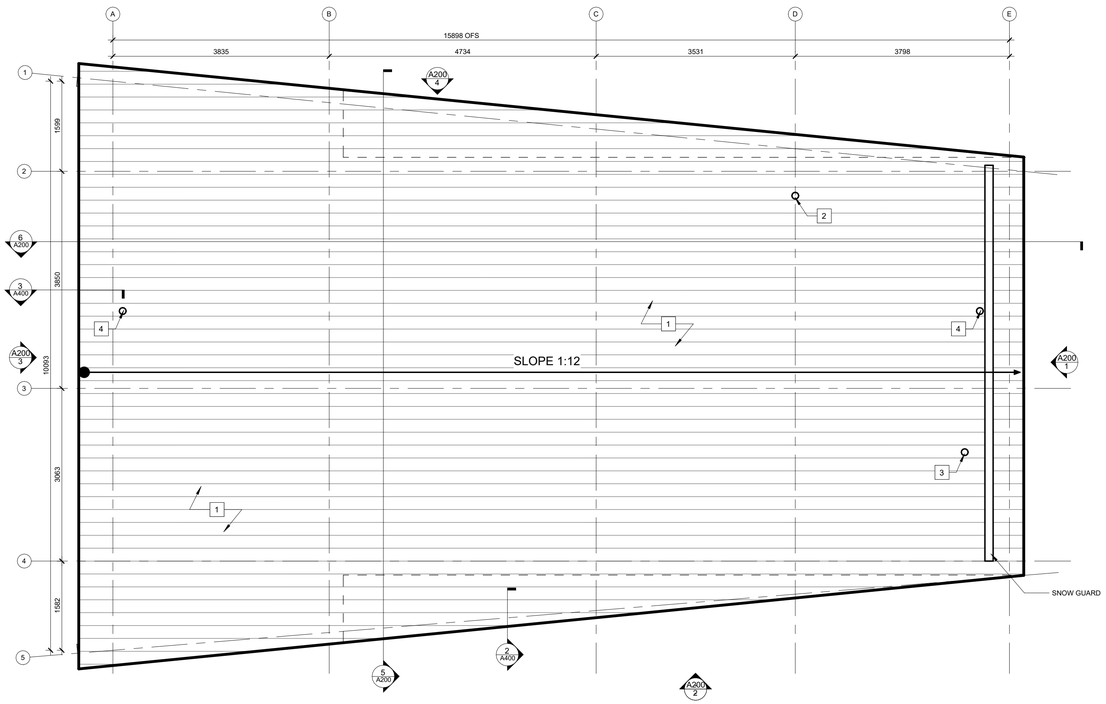
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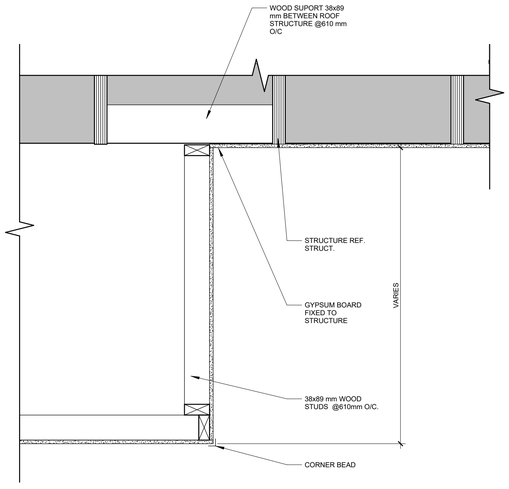
GUY ARCHITECTS
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R. WAYNE GUY ARCHITECT 23/10/25

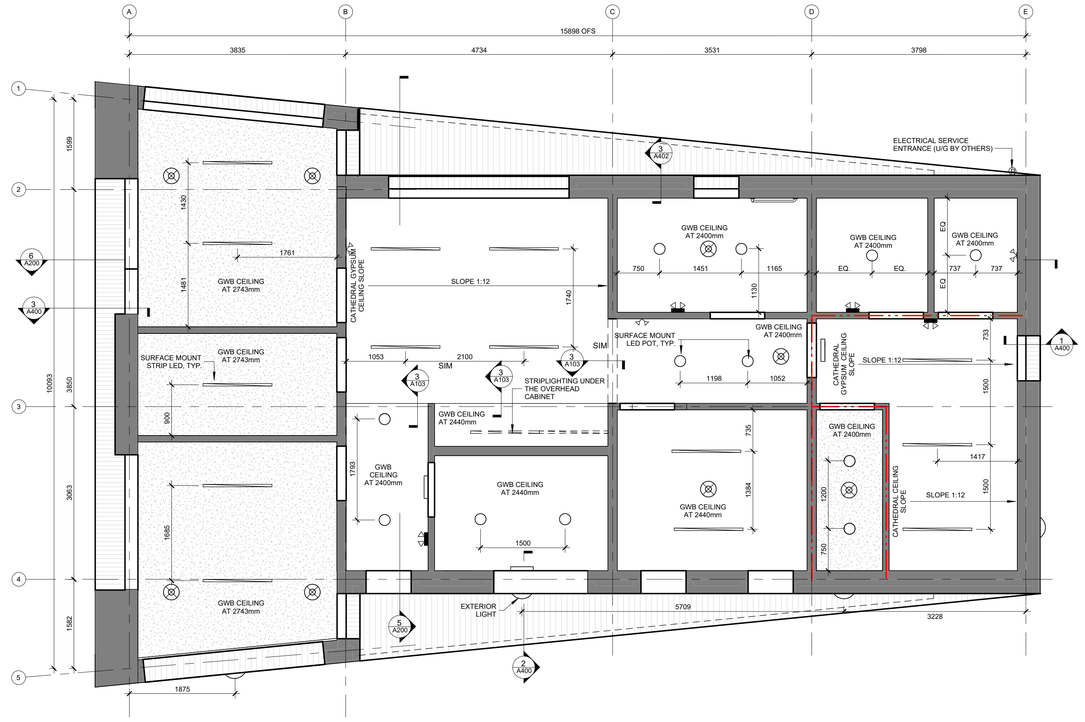
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Designed RWG	Drawn SG
Checked RWG	Approved DDP
Sheet No 4 of 13	
Drawing No A102	



1 OFFICE BUILDING - ROOF PLAN
1 : 50



3 BULKHEAD TYP.
1 : 10



2 REFLECTED CEILING PLAN
1 : 50

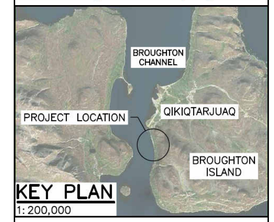
LEGEND

- GYPSUM BOARD CEILING (HEIGHTS VARY)
- CATHEDRAL GWB CEILING
- SURFACE MOUNT STRIP LED TYP.
- STRIP LIGHITNG
- SURFACE MOUNT LED POT TYP.
- MECHANICAL EQUIPMENT REFER TO MECH.
- SOFFIT, CORRUGATED METAL PANEL. COLOUR TO MATCH SIDING
- EXIT SIGN REF. ELEC.
- EMERGENCY LIGHT BATTERY PACK COMBO REF. ELEC.
- EMERGENCY REMOTE DOUBLE HEADS REF. ELEC.

1. STANDING SEAM METAL ROOFING
2. VENT, REFER TO MECHANICAL
3. CHIMNEY, REFER TO MECHANICAL
4. PERMANENT ROOF ANCHOR SYSTEM.
5. EXTERIOR LIGHTS, REFER TO ELECTRICAL

NOTE:
ALL CEILING LOCATION WITHIN A FIRE RATED ROOM WILL BE OF 1HR FIRE RATING GWB MATERIAL

Nunavut



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Guy Architects Ltd.
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No.	Description	Date	By
0	ISSUED FOR TENDER	OCT 23/25	RWG

Revision or Issue

GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

ARCHITECTURAL

ROOF & RCP PLAN

Prime Consultant

CBCL

Sub Consultant

GUY ARCHITECTS
ARCHITECTURE . ENGINEERING . INTERIORS

R. WAYNE GUY
ARCHITECT
23/10/25

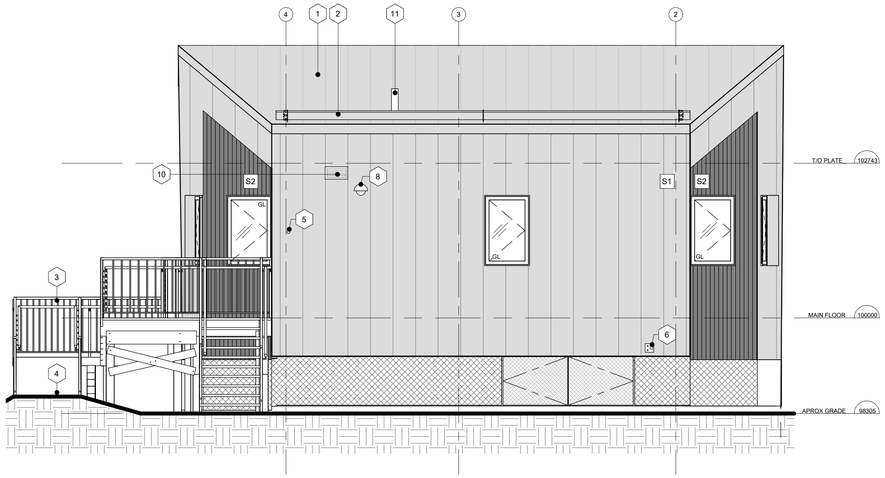
GA no. #23052	Contract No 22205-00762
Date 2025-09-11	Scale As Noted
Designed RWG	Drawn GC
Checked RWG	Approved DDP
Sheet No	5 of 13
Drawing No	A103

PROJECT NORTH

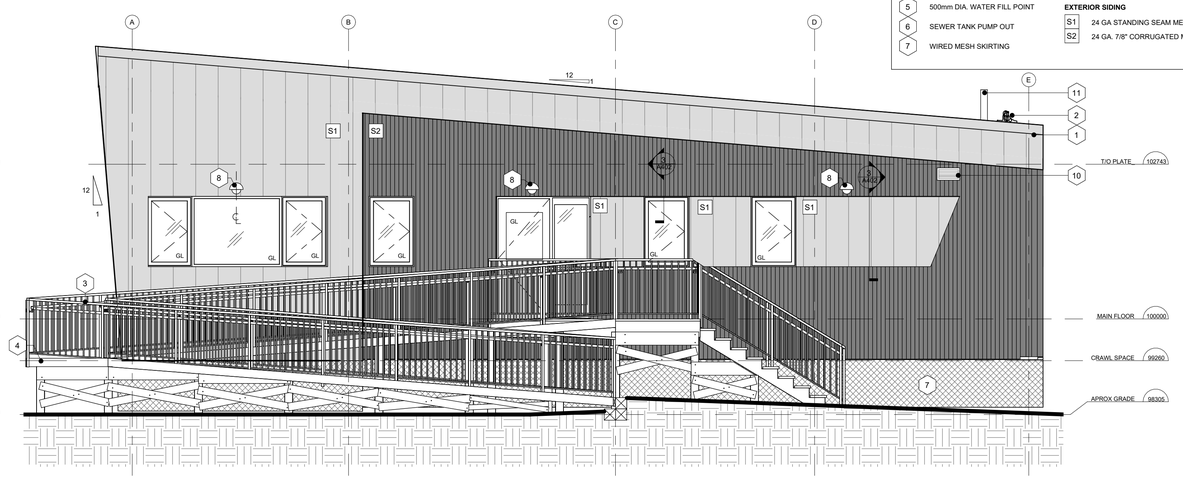
TRUE NORTH

KEY NOTE LEDGEND

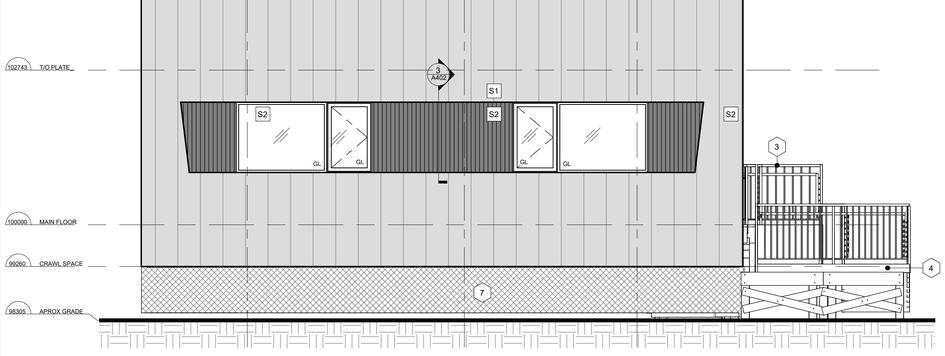
1	STANDING SEAM METAL ROOFING	8	EXTERIOR LIGHTING, SEE ELECTRICAL
2	SNOW GUARD	9	EXTERIOR ACCESS DOOR TO CRAWLSPACE
3	EXTERIOR RAILING, PREFABRICATED ALUMINUM	10	AIR VENT, SEE MECHANICAL
4	EXTERIOR RAMP, SEE STRUCTURAL	11	CHIMNEY, SEE MECHANICAL
5	500mm DIA. WATER FILL POINT	**EXTERIOR SIDING**	
6	SEWER TANK PUMP OUT	S1	24 GA STANDING SEAM METAL SIDING (GREY)
7	WIRED MESH SKIRTING	S2	24 GA. 7/8" CORRUGATED METAL SIDING. (RED)



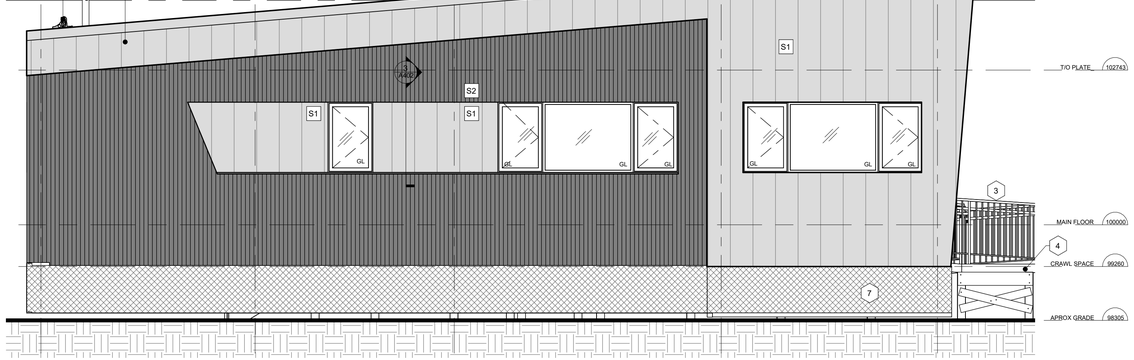
1 OFFICE BLDG EAST ELEVATION
1 : 50



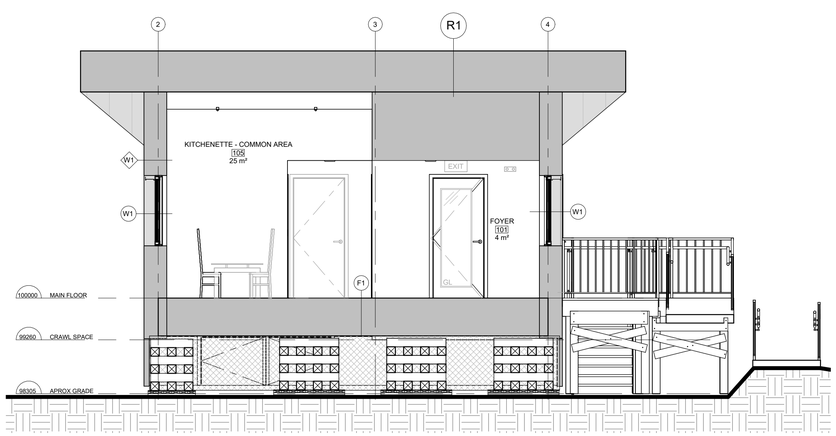
2 OFFICE BLDG SOUTH ELEVATION
1 : 50



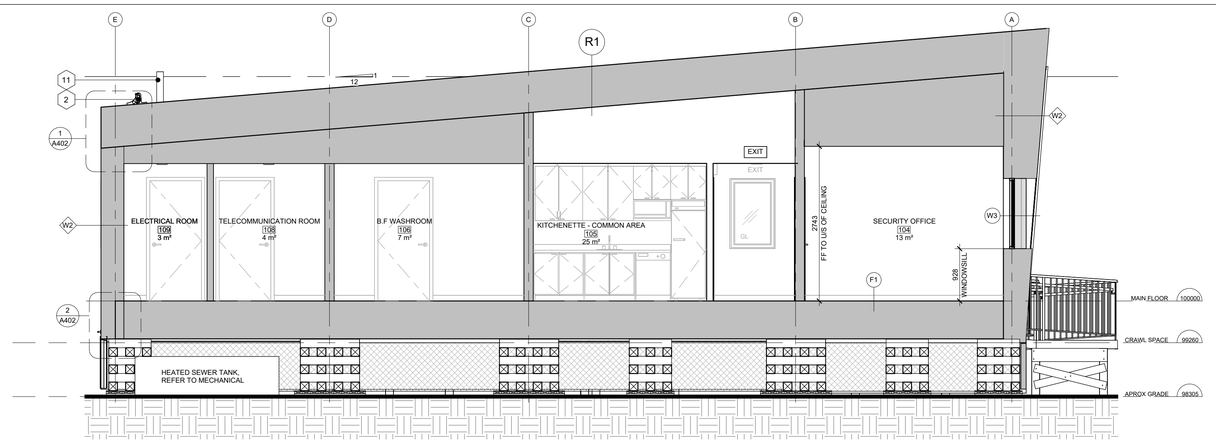
3 OFFICE BLDG WEST ELEVATION
1 : 50



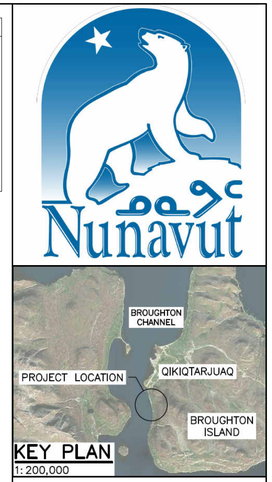
4 OFFICE BLDG NORTH ELEVATION
1 : 50



5 OFFICE BLDG SECTION 1
1 : 50



6 OFFICE BLDG SECTION 2
1 : 50



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Revision or Issue

GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

ARCHITECTURAL

ELEVATIONS & SECTIONS

Prime Consultant

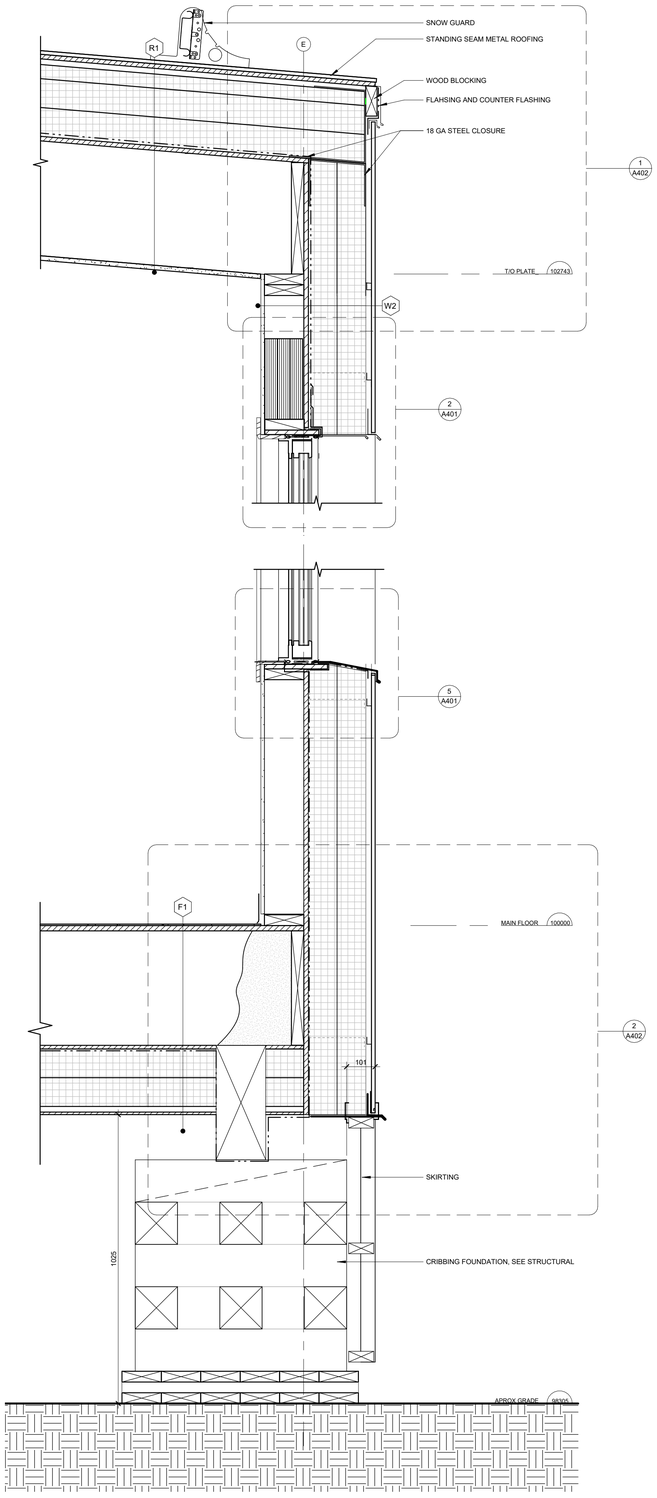
CBCL

Sub Consultant

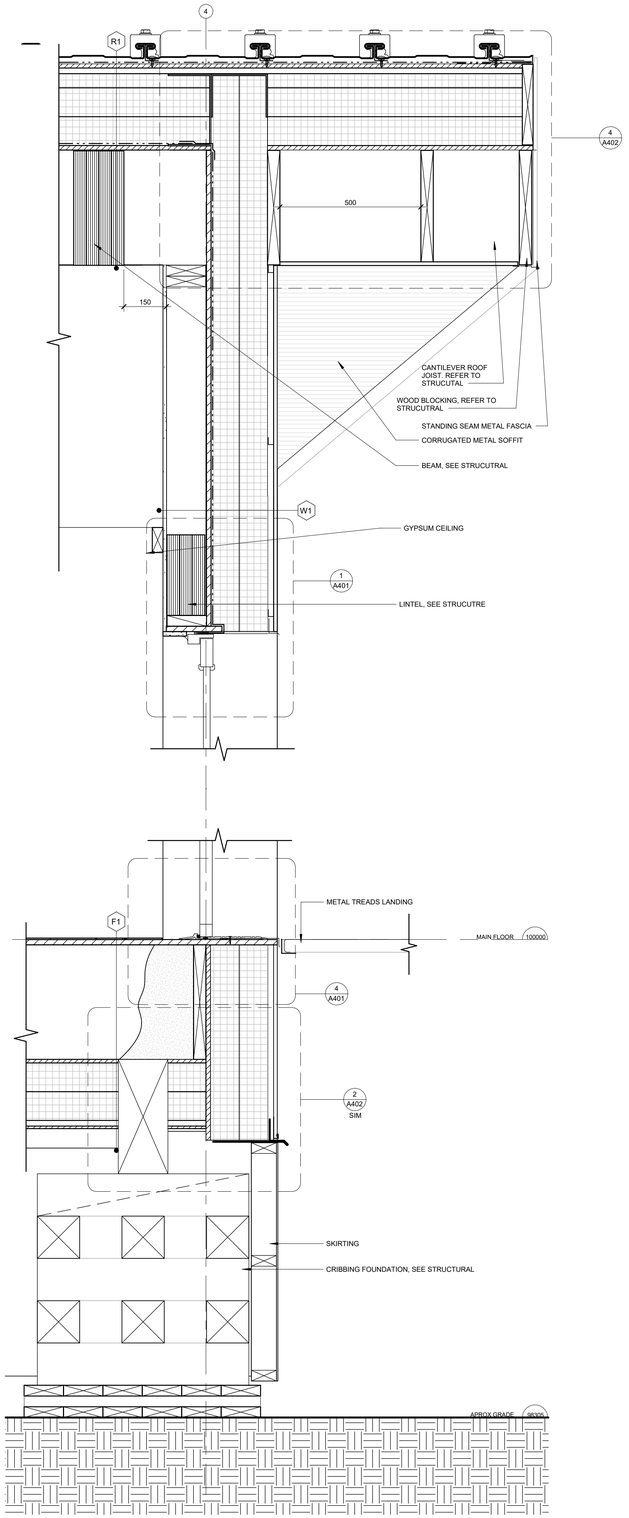
GUY ARCHITECTS
ARCHITECTURE . ENGINEERING . INTERIORS

NORTHWEST TERRITORIES ASSOCIATION OF ARCHITECTS INCORPORATED 2001
001
R. WAYNE GUY
ARCHITECT
23/10/25

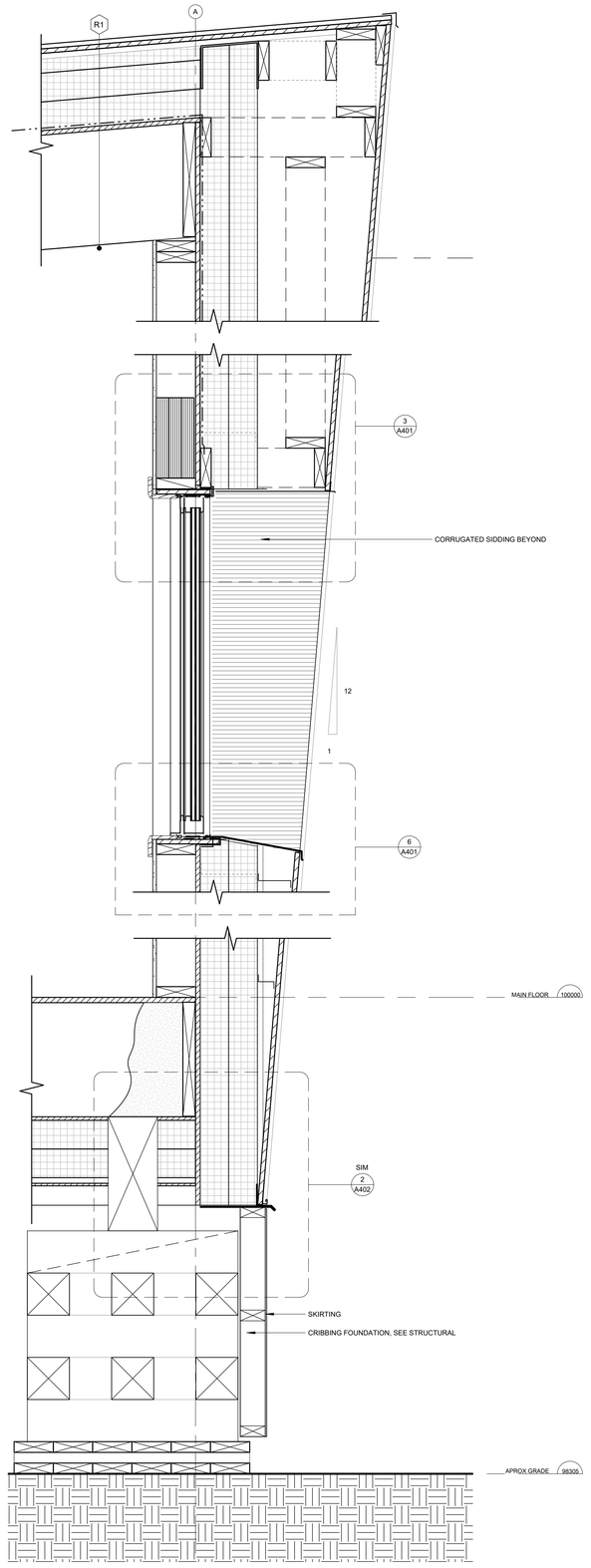
GA no. #23052	Contract No 22205-00762
Date 2025-09-11	Scale As Noted
Designed RWG	Drawn SG
Checked RWG	Approved DDP
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Drawing No A200	



1 WALL SECTION - TYPICAL
1 : 10

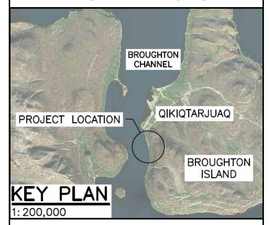


2 WALL SECTION - DOORS AND CANTILEVER SOFFIT
1 : 10



3 WALL SECTION - OFFICE ANGLE WALL
1 : 10

Nunavut



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Revision or Issue

GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

ARCHITECTURAL

DETAIL SECTIONS

Prime Consultant

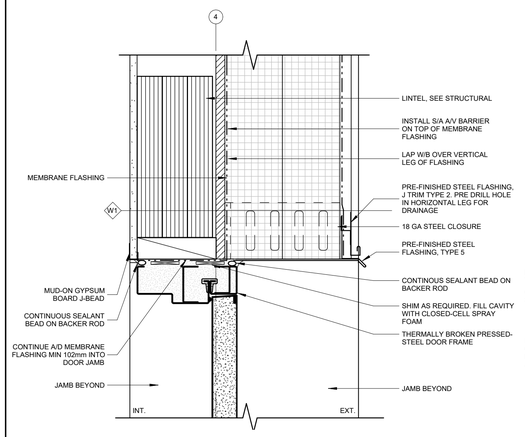
CBCL

Sub Consultant

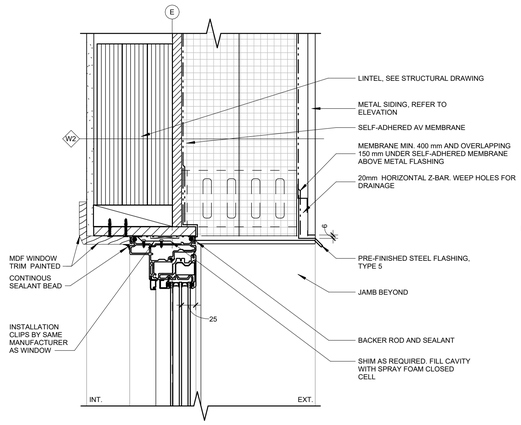
GUY ARCHITECTS
ARCHITECTURE . ENGINEERING . INTERIORS

ASSOCIATION OF ARCHITECTS NORTHWEST TERRITORIES INCORPORATED 2001
011
R. WAYNE GUY
ARCHITECT
23/10/25

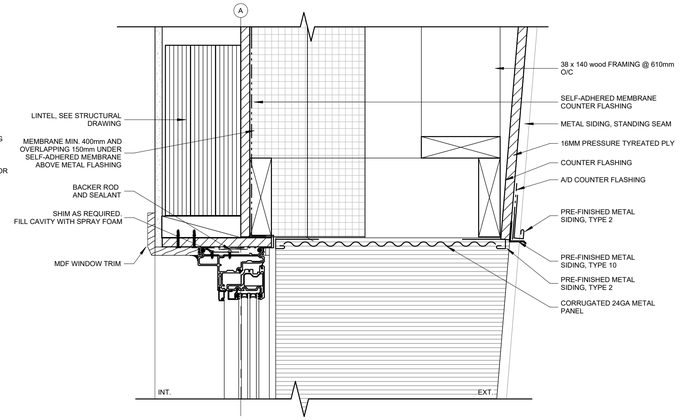
GA no. #23052	Contract No 22205-00762
Date 2025-09-11	Scale As Noted
Designed RWG	Drawn SG
Checked RWG	Approved DDP
Sheet No	7 of 13
Drawing No	A400



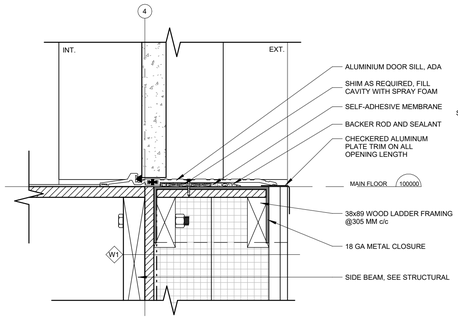
1 DOOR HEAD - TYPICAL
1 : 5



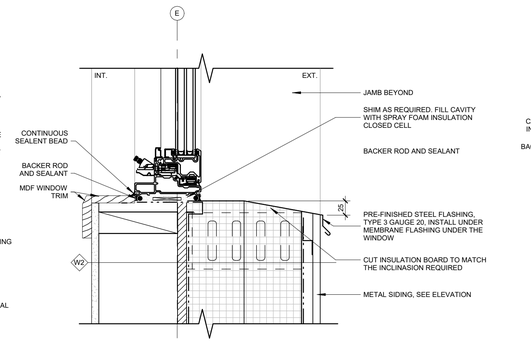
2 WINDOW HEAD - TYPICAL
1 : 5



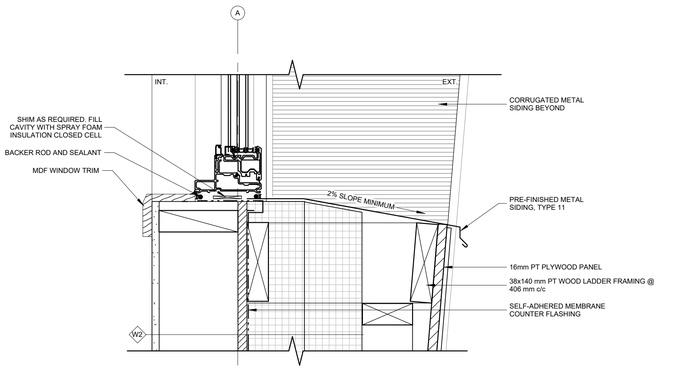
3 WINDOW HEAD - ANGLE WALL
1 : 5



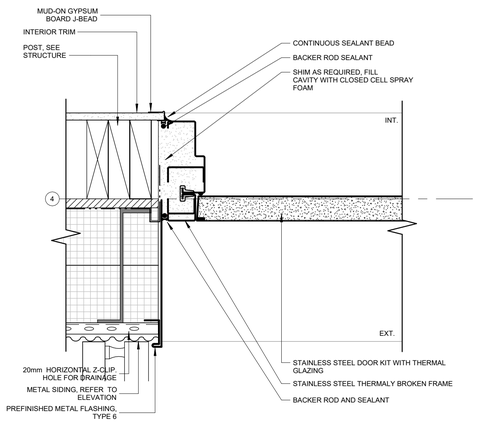
4 DOOR SILL - TYPICAL
1 : 5



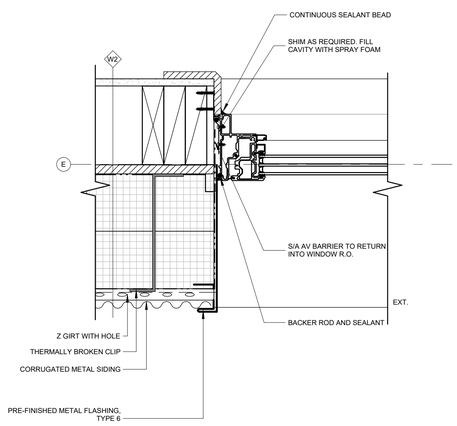
5 WINDOW SILL - TYPICAL
1 : 5



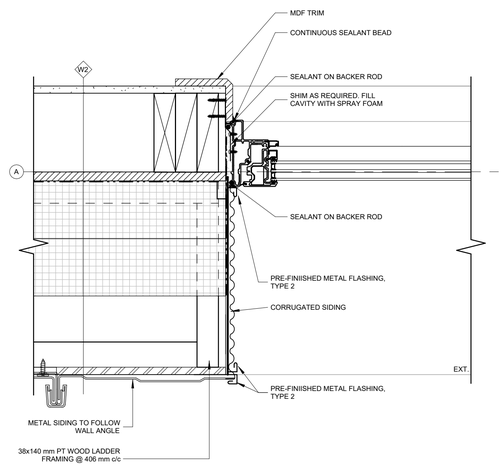
6 WINDOW SILL - ANGLE WALL
1 : 5



7 DOOR JAMB DETAIL
1 : 5

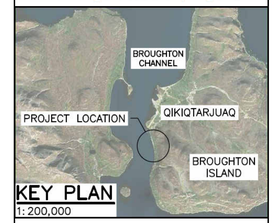


8 WINDOW JAMB DETAIL
1 : 5



9 WINDOW JAMB - ANGLE WALL
1 : 5

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Revision or Issue

GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

ARCHITECTURAL

DETAILS - WINDOWS & DOORS

Prime Consultant

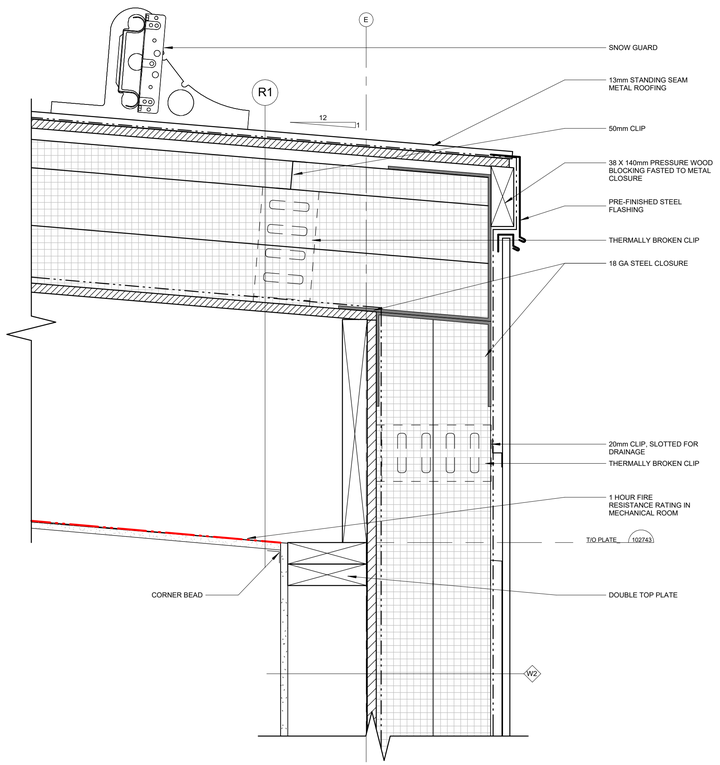
CBCL

Sub Consultant

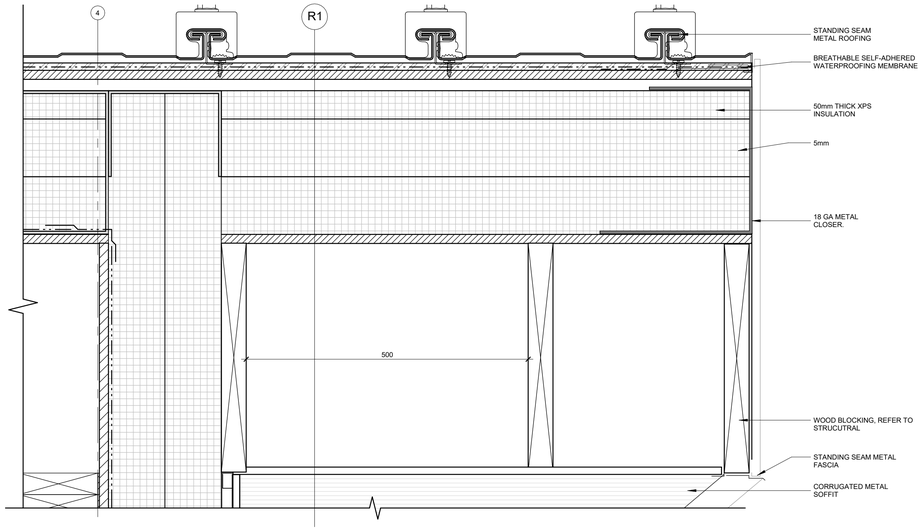
GUY ARCHITECTS
ARCHITECTURE . ENGINEERING . INTERIORS

NORTHWEST TERRITORIES ASSOCIATION OF ARCHITECTS INCORPORATED 2001
R. WAYNE GUY
ARCHITECT
23/10/25

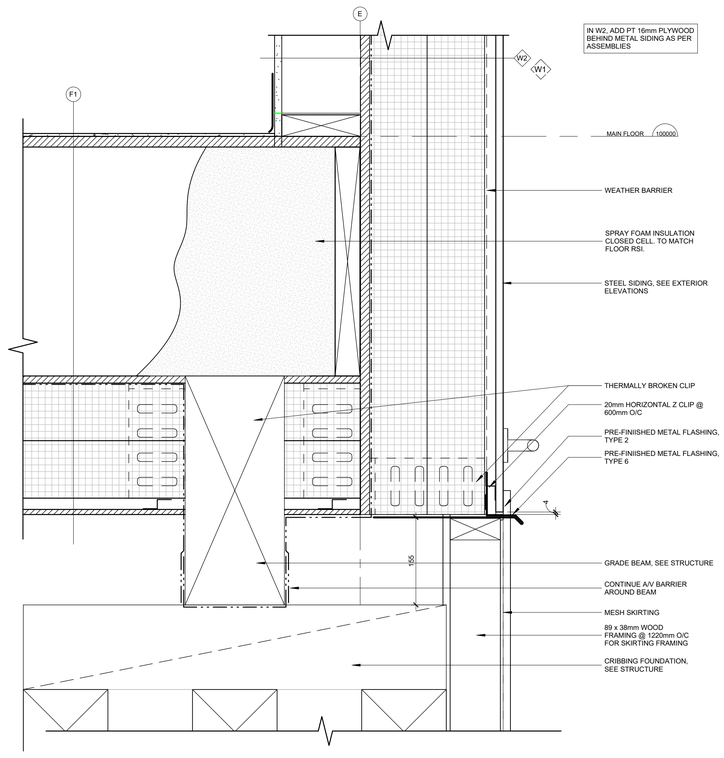
GA no. #23052	Contract No 22205-00762
Date 2025-09-11	Scale As Noted
Designed RWG	Drawn GC
Checked RWG	Approved DDP
Sheet No	8 of 13
Drawing No	A401



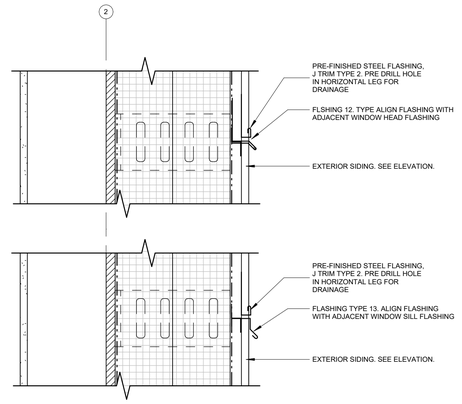
1 SECTION DETAIL - ROOF SECTION. NO OVER HANG
1 : 5



4 SECTION DETAIL - CANTILEVER SOFFIT
1 : 5

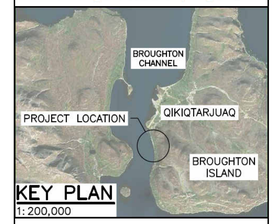


2 SECTION DETAIL - FLOOR TYP.
1 : 5



3 SIDING CHANGE - TYPICAL
1 : 5

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Revision or Issue

GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

ARCHITECTURAL

DETAILS - SECTION

Prime Consultant

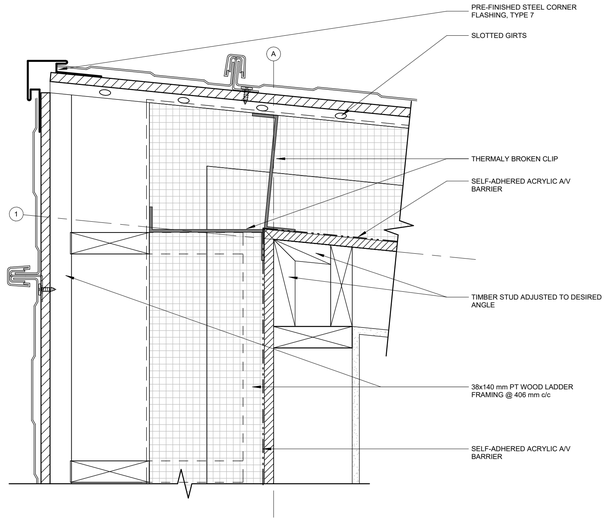
CBCL

Sub Consultant

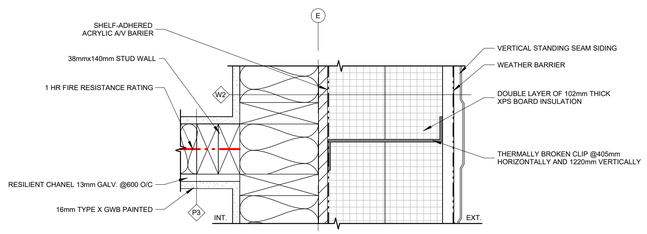
GUY ARCHITECTS
ARCHITECTURE . ENGINEERING . INTERIORS

NORTHWEST TERRITORIES ASSOCIATION OF ARCHITECTS INCORPORATED 2001
WAYNE GUY ARCHITECT
23/10/25

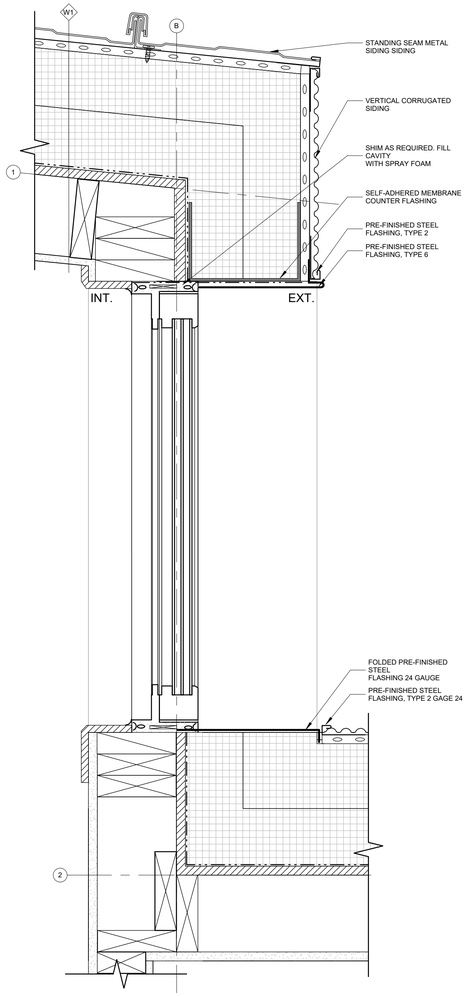
GA no. #23052	Contract No. 22205-00762
Date 2025-09-11	Scale As Noted
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Sheet No. 9 of 13	
Drawing No A402	



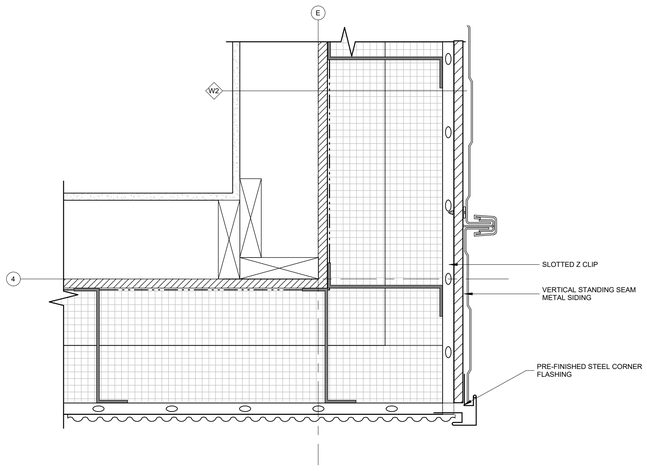
2 PLAN DETAIL - EXTERIOR WALL CORNER (ANGLED)
1 : 5



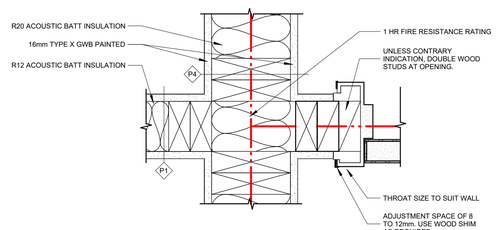
3 PLAN DETAIL - INT. TO EXT. WALL CONNECTION
1 : 5



5 CORNER WINDOW JAMB DETAIL
1 : 5

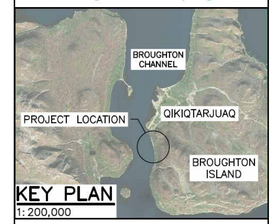


1 PLAN DETAIL - EXTERIOR WALL CORNER
1 : 5



4 PLAN DETAIL - INTERIOR WALL CONJUNCTION
1 : 5

Nunavut



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Guy Architects Ltd.
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GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

ARCHITECTURAL

DETAILS - PLAN

Prime Consultant

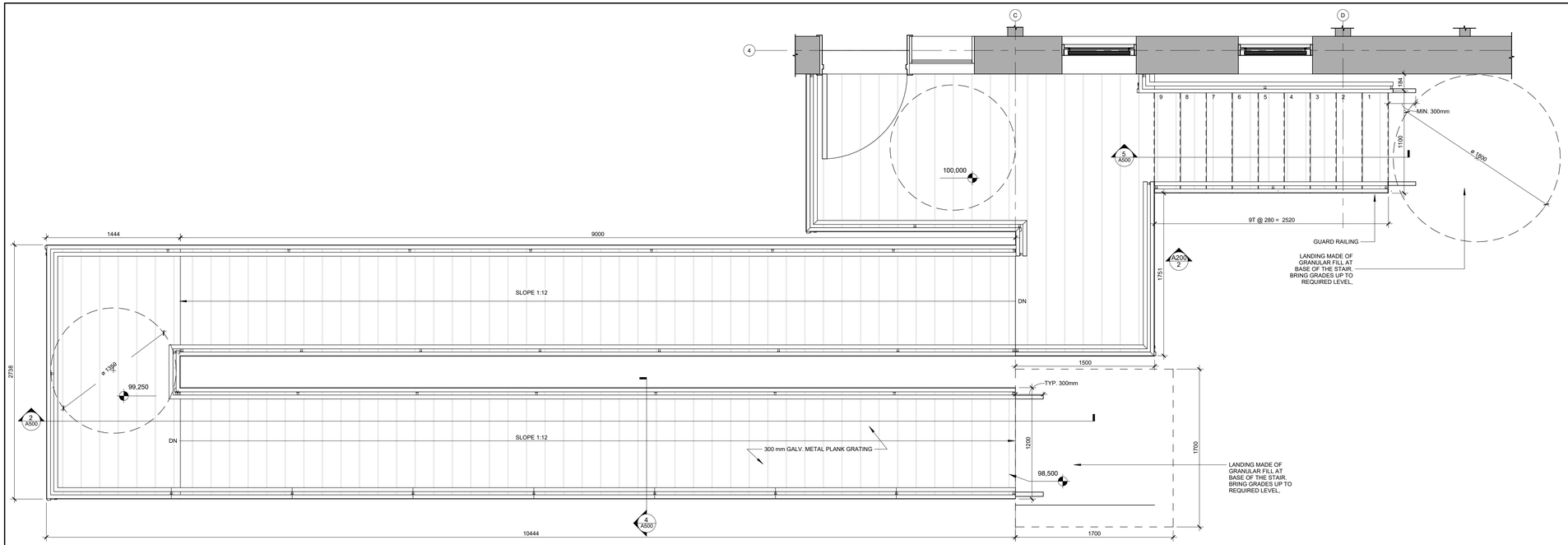
CBCL

Sub Consultant

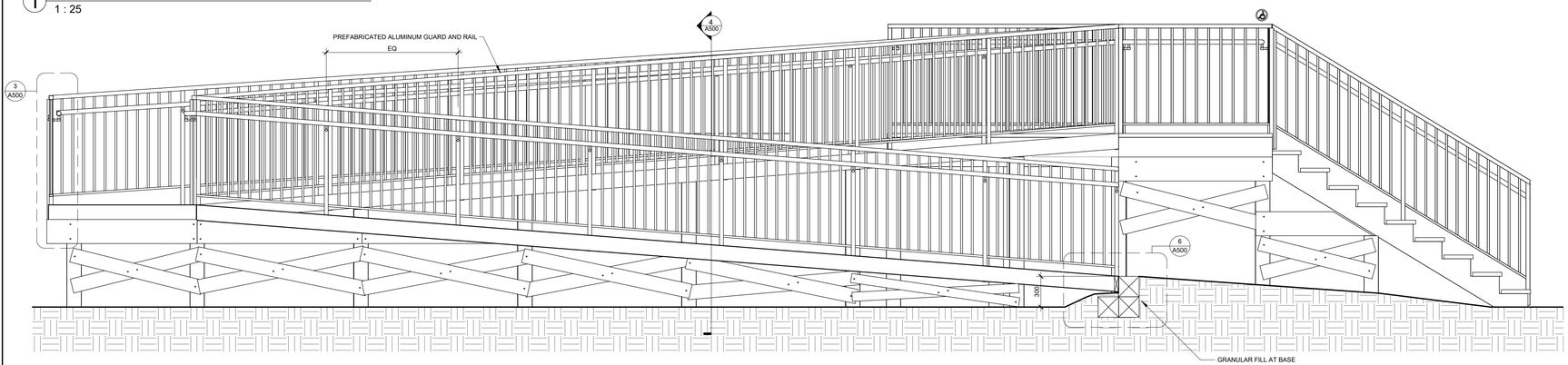
GUY ARCHITECTS
ARCHITECTURE . ENGINEERING . INTERIORS

NORTHWEST TERRITORIES ASSOCIATION OF ARCHITECTS INCORPORATED 2001
2011
R. WAYNE GUY
ARCHITECT
23/10/25

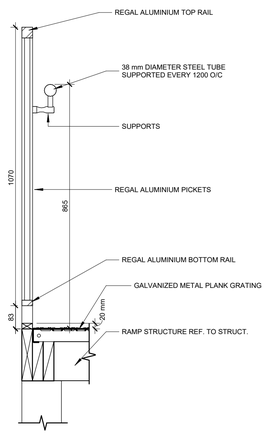
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Drawing No	A403



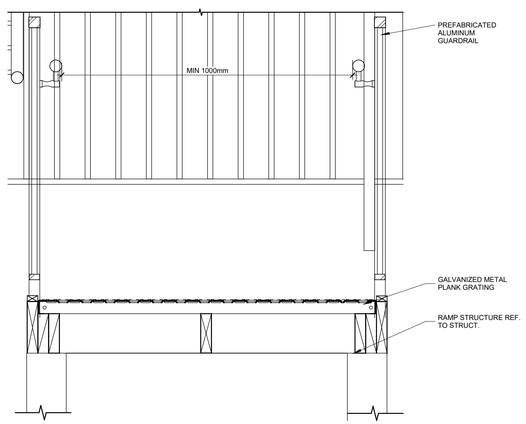
1 OFFICE BUILDING - RAMP AND STAIR PLAN
1 : 25



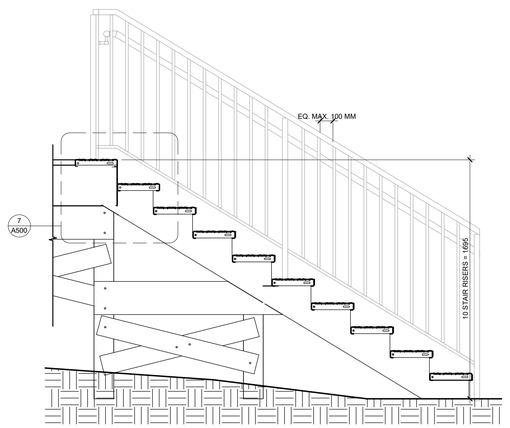
2 RAMP SECTION 1
1 : 25



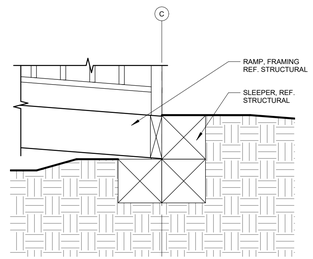
3 GAURD DETAIL TYP.
1 : 10



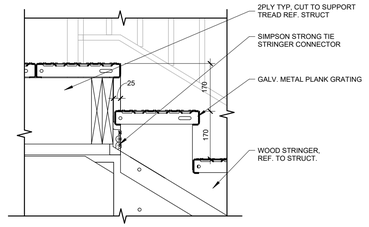
4 RAMP SECTION
1 : 10



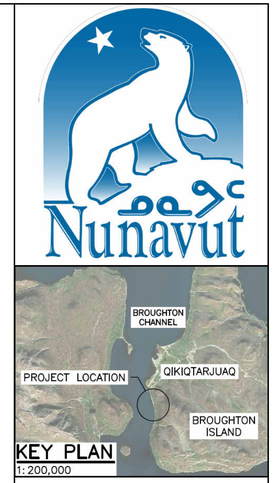
5 STAIR DETAIL SECTION
1 : 20



6 RAMP DETAIL - END SECTION
1 : 10



7 STAIR DETAIL SECTION 2
1 : 10



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Guy Architects Ltd.
PERMIT No. 011
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No.	Description	Date	By
0	ISSUED FOR TENDER	OCT 23/25	RWG

Revision or Issue

GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

ARCHITECTURAL

PARTIAL PLAN RAMP & STAIRS

Prime Consultant

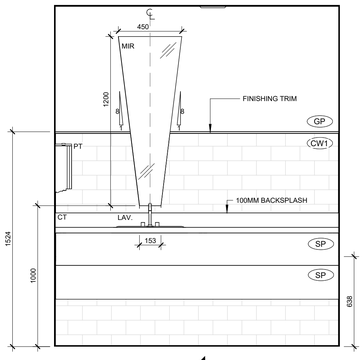
CBCL

Sub Consultant

GUY ARCHITECTS
ARCHITECTURE . ENGINEERING . INTERIORS

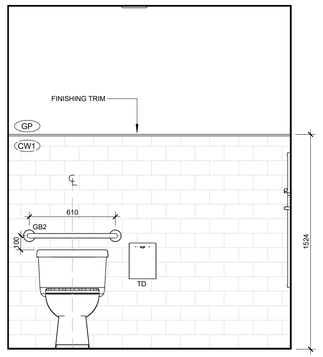
NORTHWEST TERRITORIES ASSOCIATION OF ARCHITECTS INCORPORATED 2001
R. WAYNE GUY ARCHITECT
23/10/25

GA no. #23052	Contract No 22205-00762
Date 2025-09-11	Scale As Noted
Designed RWG	Drawn GC
Checked RWG	Approved DDP
Sheet No 10 of 13	
Drawing No A500	

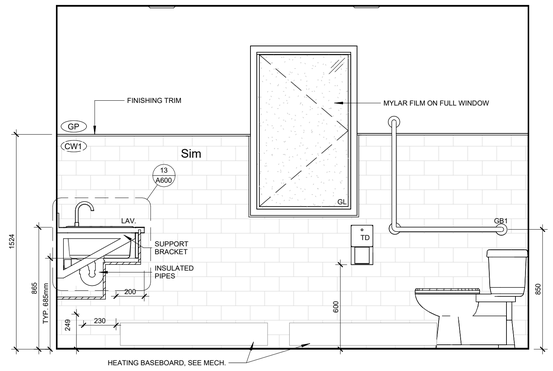


3 A402

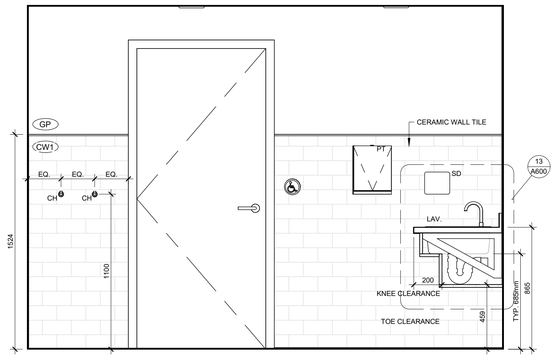
1 BARRIER FREE - INTERIOR ELEVATION 1
1 : 20



2 BARRIER FREE - INTERIOR ELEVATION 2
1 : 20



3 BARRIER FREE - INTERIOR ELEVATION 3
1 : 20

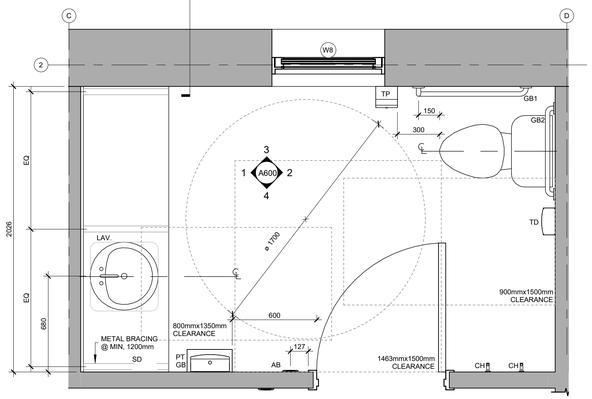


4 BARRIER FREE - INTERIOR ELEVATION 4
1 : 20

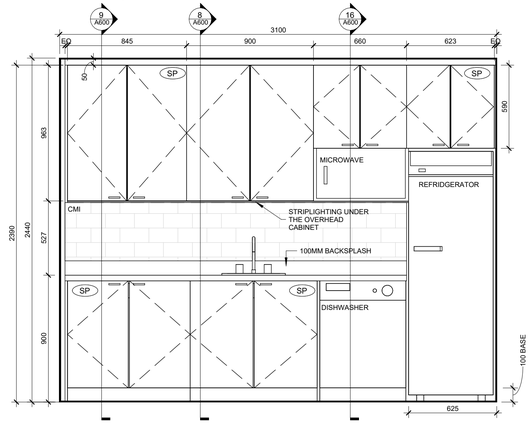
INTERIOR ELEVATION LEGEND	
GB1	GRAB BAR L SHAPED, 760mm X 760mm
GB2	GRAB BAR, HORIZONTAL 610mm
LAV.	LAVATORY, SEE MECHANICAL
SP	SOAP DISPENSER, WALL MOUNTED
PT	PAPER TOWEL HOLDER WALL MOUNTED
DO	AUTOMATIC DOOR OPERATOR
CH	COAT HOOK, WALL MOUNTED
TP	TOILET PAPER DISPENSER
CT	COUNTER TOP
TD	TOILET PAPER DISPOSAL
MI	MICROWAVE, NOT INCLUDED IN CONTRACT
FR	FRIDGE, NOT INCLUDED IN CONTRACT
DW	DISHWASHER NOT INCLUDED IN CONTRACT
SB	SUPPORT BRAKETS: 50X50mm GA 16 STEEL
PE	PLUMBING EQUIPMENT, SEE MECH
EL	ELECTRIC EQUIPMENT, SEE ELECTRICAL

INTERIOR ELEVATION FINISHES LEGEND	
CW1	**WALL CERAMIC TILE**
PLY	**16mm PLYWOOD** STAINED AND VARNISHED ON ALL EXPOSED FACES
SP	**STRATIFIED PANEL** ON 16mm AGLOMERATE PANEL. 3mm EDGE BAND
BB	**VINYL BASEBOARD,** 100mm
GP	**GYPSUM BOARD,** PAINTED

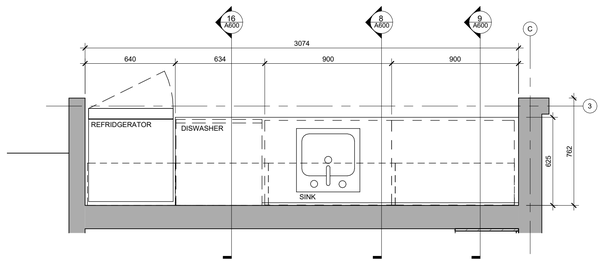
NOTE
CONTRACTOR TO CONFIRM OVERALL DIMENSIONS PRIOR TO CONSTRUCTION OF CABINETS.



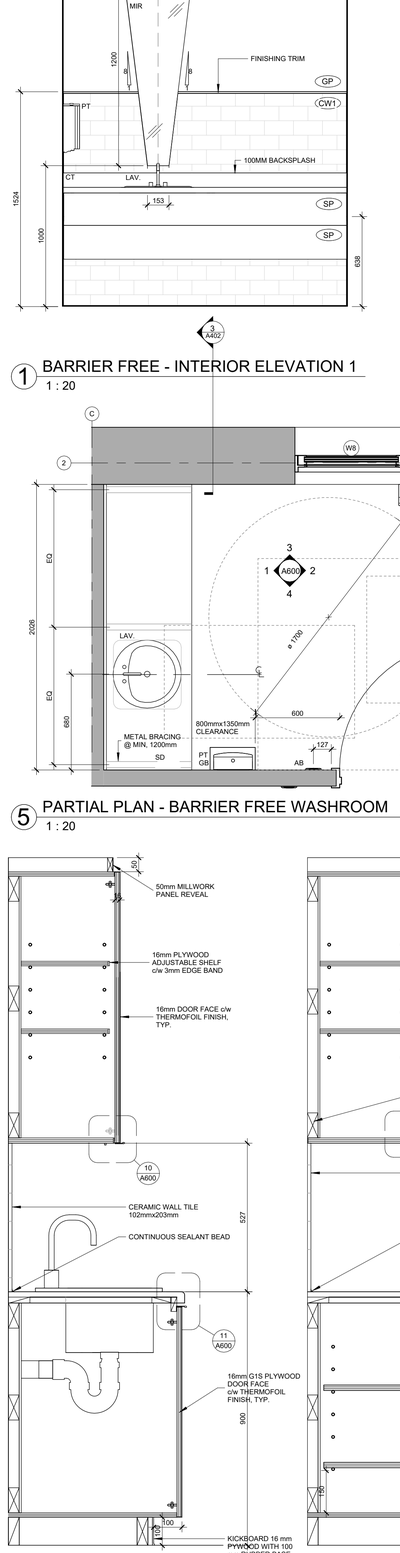
5 PARTIAL PLAN - BARRIER FREE WASHROOM
1 : 20



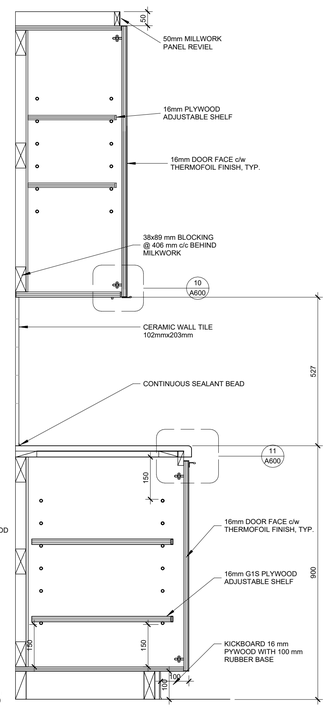
6 KITCHEN - INTERIOR ELEVATION
1 : 20



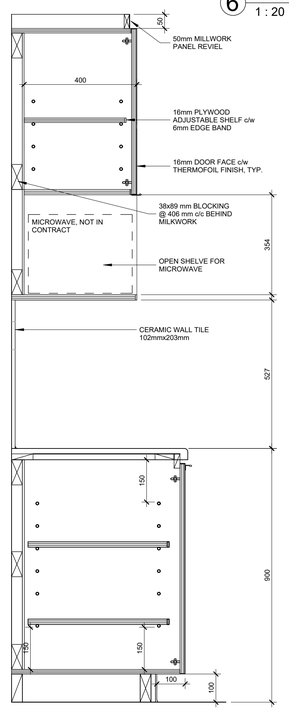
7 PARTIAL PLAN - KITCHEN
1 : 20



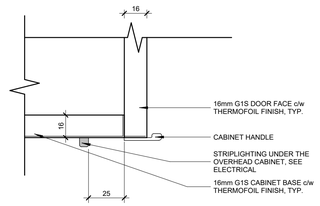
8 KITCHEN SECTION 1
1 : 10



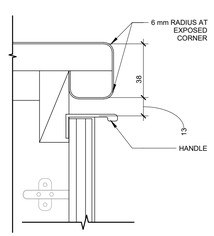
9 KITCHEN SECTION 2
1 : 10



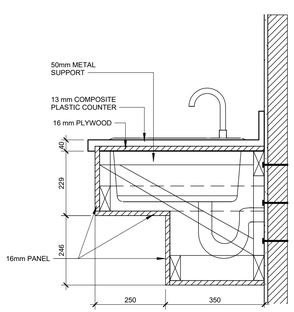
16 KITCHEN SECTION 3
1 : 10



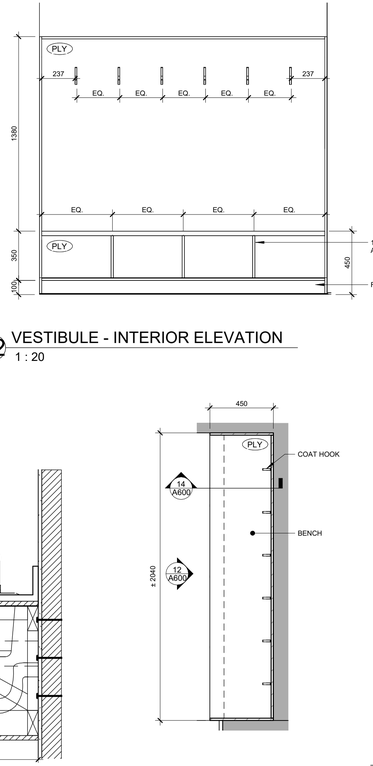
10 DETAIL - RECESSED STRIP LIGHT
1 : 2



11 COUNTERTOP DETAIL
1 : 2

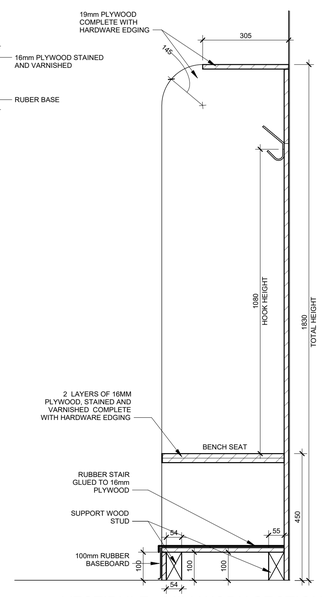


13 WC VANITY
1 : 10



12 VESTIBULE - INTERIOR ELEVATION
1 : 20

15 VESTIBULE - MILLWORK PLAN.
1 : 20



14 VESTIBULE - MILLWORK SECTION
1 : 10



KEY PLAN
1: 200,000

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GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

ARCHITECTURAL
PARTIAL PLAN & INTERIOR ELEVATIONS

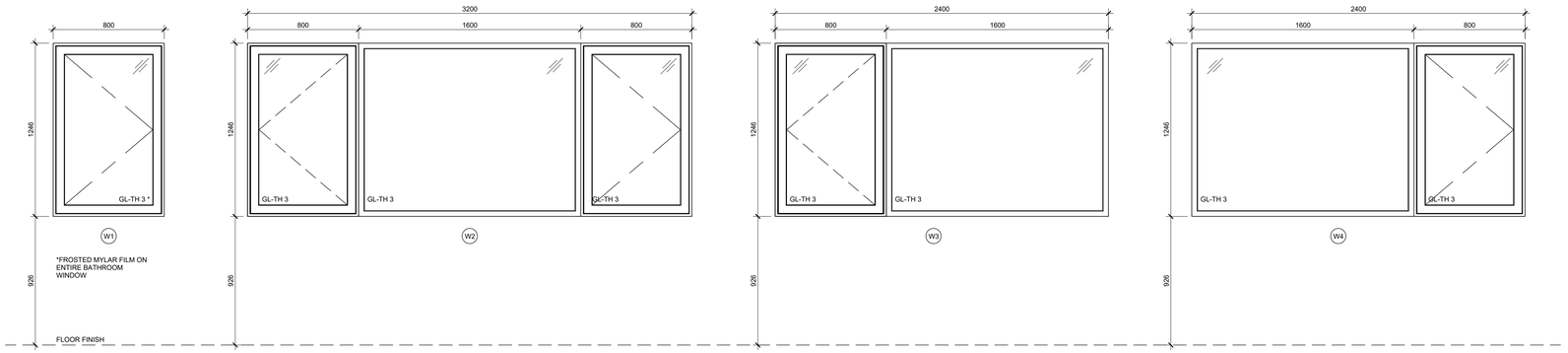
Prime Consultant
CBCL

Sub Consultant
GUY ARCHITECTS
ARCHITECTURE . ENGINEERING . INTERIORS

ASSOCIATION OF ARCHITECTS NORTHWEST TERRITORIES INCORPORATED 2001
R. WAYNE GUY ARCHITECT
23/10/25

GA no.	Contract No
#23052	22205-00762
Date 2025-09-11	Scale As Noted
Designed RWG	Drawn GC
Checked RWG	Approved DDP
Sheet No 11 of 13	

Drawing No
A600

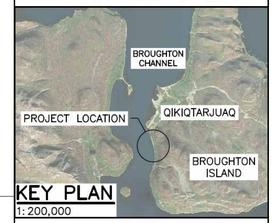


1 WINDOW LEGEND
1 : 20

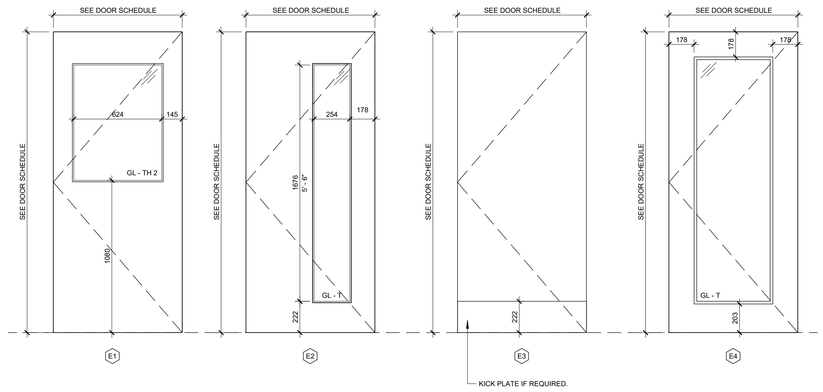
WINDOW SCHEDULE

TYPE	DIMENSIONS WIDTH	DIMENSIONS HEIGHT	COMMENTS
W1	800	1246	- CASEMENT - TRIPLE GLAZED w/ LOW-E COATING - ARGON FILLED - MYLAR FILM ON INTERIOR GLASS IN W.C.
W2	3200	1246	- OPERABLE AND FIXED SECTION - TRIPLE GLAZED w/ LOW-E COATING - ARGON FILLED
W3	2400 I	1246	- OPERABLE AND FIXED SECTION - TRIPLE GLAZED w/ LOW-E COATING - ARGON FILLED
W4	2400 I	1246	- OPERABLE AND FIXED SECTION - TRIPLE GLAZED w/ LOW-E COATING - ARGON FILLED

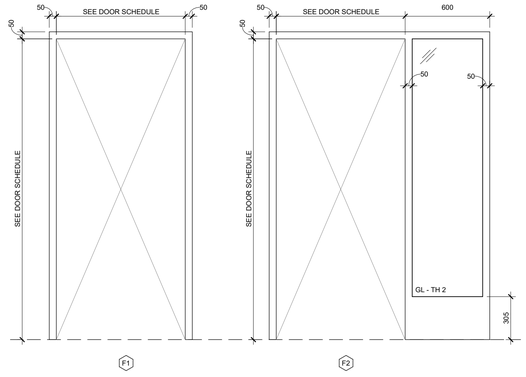
NOTE:
- CONTRACTOR TO CONFIRM ROUGH OPENING PRIOR TO ORDERING WINDOWS.
- OVERALL DIMENSIONS ARE OSM



DOORS



FRAMES



GL - T : GLAZING TEMPERED 6mm
GL - TH 2: GLAZING THERMOS, DOUBLE GLAZED 25mm UNIT
GL - TH 3: GLAZING THERMOS, TRIPLE GLAZED 35mm UNIT

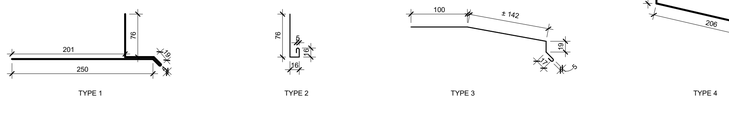
2 DOOR AND FRAME LEGEND
1 : 20

DOOR SCHEDULE

TYPE	DIMENSIONS WIDTH	DIMENSIONS HEIGHT	FRR	FRAME MATERIAL AND FINISH	FRAME ELEVATION	DOOR MATERIAL AND FINISH	DOOR ELEVATION	COMMENTS
D1	914	2134	N/A	THERMALLY BROCKEN STAINLESS FRAME	F2	STAINLESS STEEL, PAINTED	E1	GLAZING: THERMOS, DOUBLE GLAZED 25mm UNIT
D2	914	2134	N/A	PRESSED STEEL FRAME, PAINTED	F1	WOOD, STAINED AND VARNISHED	E2	GLAZING : 6mm TEMPERED GLASS
D3	914	2134	N/A	PRESSED STEEL FRAME, PAINTED	F1	WOOD, STAINED AND VARNISHED	E3	
D4	914	2134	20 min	PRESSED STEEL FRAME, PAINTED	F1	WOOD, STAINED AND VARNISHED	E3	
D5	914	2134	N/A	PRESSED STEEL FRAME, PAINTED	F1	WOOD, STAINED AND VARNISHED	E3	
D6	914	2134	N/A	PRESSED STEEL FRAME, PAINTED	F1	WOOD, STAINED AND VARNISHED	E4	GLAZING : 6mm TEMPERED GLASS
D7	1149	860	N/A	PT WOOD	F1	PT WOOD	E3	

NOTES:
- CONTRACTOR TO CONFIRM R.O. DIMENSONS AND FRAME THROAT SIZE ON SITE PRIOR TO ORDERING DOORS.
- CONTRACTOR TO CONFIRM GLAZING INSERT DIMENSIONS ARE COMPATIBLE WITH HARDWARE PLACEMENT.
- REFERT TO DRAWINGS FOR OPENING DIRECTION

3 TYP. DOOR INTERIOR INSTALLATION
1 : 5



NOTE:
ALL FLASHING TO MATCH ADJACENT SIDING COLOR
ALL FLAHSING TO BE 24GA UNLESS INDICATED OTHERWISE

4 FLASHING LEGEND
1 : 5

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Revision or Issue

GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

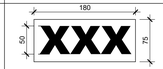
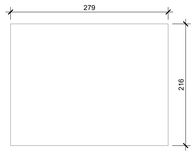
ARCHITECTURAL
WINDOW, DOOR & FLASHING SCHEDULE

Prime Consultant
CBCL

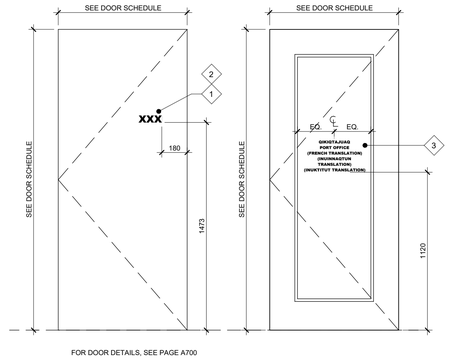
Sub Consultant
GUY ARCHITECTS
ARCHITECTURE . ENGINEERING . INTERIORS

NORTHWEST TERRITORIES ASSOCIATION OF ARCHITECTS INCORPORATED 2001
DDP
W. WAYNE GUY
ARCHITECT
23/10/25

GA no. #23052	Contract No. 22205-00762
Date 2025-09-11	Scale As Noted
Designed RWG	Drawn GC
Checked RWG	Approved DDP
Sheet No. 12 of 13	
Drawing No. A700	

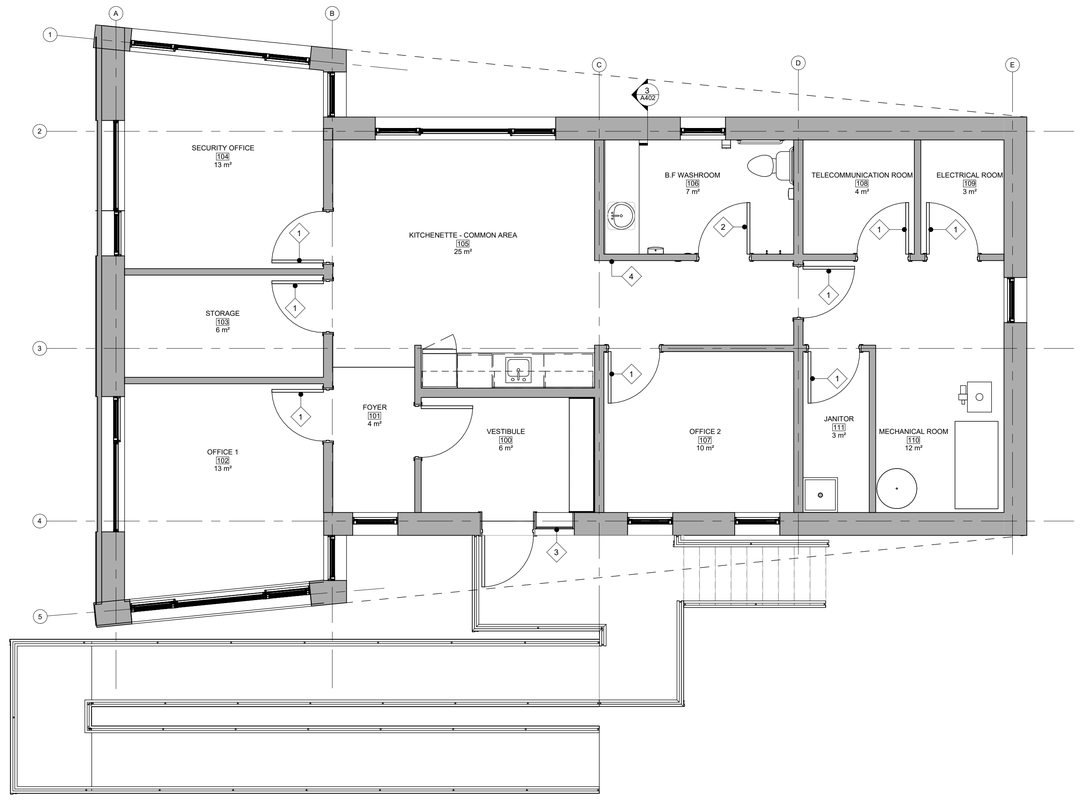
KEY NOTE	SIGNAGE	DESCRIPTION
1 ROOM NUMBER TAG		ALUMINUM PLATE : 180mm X 75mm FONT : ARIAL BLACK TEXT HEIGHT: 50mm LOCATION : ON DOORS FOR ROOMS 102, 104, 103, 107, 108, 109, 110 ,111 SEE DRAWING 2/A900
2 WC		ALUMINUM PLATE FONT : ARIAL BLACK HEIGHT: 130mm LOCATION : ON WC DOOR.
3 MAIN ENTRANCE	**QIKIQTAJUAQ PORT OFFICE (FRENCH TRANSLATION) (INUINNAQTUN TRANSLATION) (INUKTITUT TRANSLATION)**	VINYL ADHESIVE WHITE FONT : ARIAL BLACK FONT HEIGHT:4 mm ALIGNEMENT: CENTER LOCATION : INTERIOR SIDE OF GLAZING OF THE EXTERIOR DOOR SEE DRAWING 2/A900
4 EVACUATION PLAN		PRINT ON ALUMINIUM SHEET 3MM THICK. LOCATION : AS INDICATED

3 WAYFINDING SCHEDULE
1 : 5



FOR DOOR DETAILS, SEE PAGE A700

2 SIGNAGE INSTALATION TYPICAL
1 : 20



1 WAYFINDING PLAN
1 : 50



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QIKIQTARJUAQ MARINE INFRASTRUCTURE

ARCHITECTURAL

WAYFINDING

Prime Consultant

CBCL

Sub Consultant

GUY ARCHITECTS
ARCHITECTURE . ENGINEERING . INTERIORS

NORTHWEST TERRITORIES ASSOCIATION OF ARCHITECTS INCORPORATED 2001
WAYNE GUY ARCHITECT
23/10/25

GA no.	Contract No
#23052	22205-00762
Date 2025-09-11	Scale As Noted
Designed RWG	Drawn GC
Checked RWG	Approved DDP
Sheet No 13 of 13	
Drawing No A900	

General Notes:
1. Read structural drawings in conjunction with Architectural drawings, and Geotechnical report issued by Adaptive Baseline Geotechnical Ltd. on October 31, 2024 and subsequent email from Adaptive Baseline Geotechnical Ltd on November 25, 2024.
2. Protect existing buildings, trees, fencing, utility poles, cables, active underground services and paving on the site or any adjoining properties from damage.
3. Contractor to check and confirm all dimensions, levels and details shown on structural drawings against existing levels and heights at conjunctions to the existing buildings.
4. Report any discrepancies to the engineer before proceeding with the work.

References And Related Specifications
All reference standards and related specifications shall be current issue or latest revision at the date of tender advertisement.

Codes Of Practice, By-Laws , Regulations
Comply with:
1. National Building Code (2015)
2. Local by-laws, Canadian construction safety code and all regulations set by authorities having jurisdiction. In stringent requirements shall apply.

Design
1. All structural members are designed in accordance with National Building Code, latest edition.
2. All concrete members are designed in accordance with C.S.A standards A23.3-19, "Design of Concrete Structures"
3. All structural steel members are designed in accordance with C.S.A standards CAN/CSA-S16.19, -"Limit States Design of Steel Structures".

Special Provisions:
No substitutions allowed unless the following arrangements are made
1. Written permission obtained from the consultant and the project manager
2. Steel contractor ensures that substitutions can be both physically and dimensionally incorporated in the work with no loss of intended function or construction time and at no additional cost to the owner.

Submittals
The contractor shall submit the following to the engineer, in accordance with the special provisions:
certification from the manufacturer stating that the materials supplied meet the specified requirements.

Shop Drawings
1. The Contractor to get written approval of GA's engineers for any shop drawings related to the work shown in this drawings prior to construction.
2. The Contractor to confirm site dimensions and stamp shop drawings by a NAPEG authorized engineer prior to submitting them to GA's office for review.

Foundation Design:
1. The proposed foundation design is based on The Clients preference and in accordance with the Geotechnical report issued by Adaptive Baseline Geotechnical Ltd. on October 31, 2024 and subsequent email from Adaptive Baseline Geotechnical Ltd on November 25, 2024.

Parking Area, Site Grading and Drainage:
Geotechnical report has been provided by Adaptive Baseline Geotechnical Ltd. on October 31, 2024.

Additional Notes:
- Contractor to hire geotechnical engineer to do crib foundation installation monitoring.
- For all wall assembly and location, and stairs refer to arch.
- Contractor to coordinate beams with mechanical chases & ductwork as Needed.
- All wood mechanical connectors, hurricane ties, bridging/blocking, hangers, and hold Downs to be simpson strong tie connection and to be engineered.Contractor to follow manufacturer's manual and proprietary products engineering details.
- All shop drawings for floor/roof joists and beams to be stamped by an Engineer and to be submitted to GA for review prior to purchase.
- All lumber for exterior use must be treated with preservatives.

DESIGN LOADS:
ROOF LOADS: DL: 1.5 kPA , LL: 1 kPA
MAIN FLOOR: DL: 1.5 kPA , LL: 4.8 kPA

SPECIFIED SNOW LOAD
$S = I_s[S_s(C_bC_wC_sC_a)+S_r]$
LOCATION: NUNAVUT
S_S = 2.9 kPa , S_r = 0.2 kPa

ULS: S = 2.52 kPa
SLS: S = 2.27 kPa

WIND LOAD
LOCATION: NUNAVUT
q_{50}: 0.65 kPA

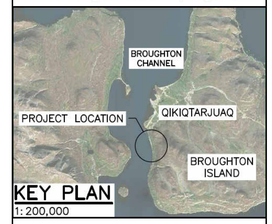
EARTHQUAKE LOAD
Location
Nunavut

Ground Motions
Probability of exceedance in 50 years = 2%
Site Class = C

Sa(0.2, XC) = 0.087
Sa(0.5, XC) = 0.065
Sa(1.0, XC) = 0.043
PGA(XC) = 0.051

Sa(2.0, XC) = 0.023
Sa(5.0, XC) = 0.0058
Sa(10.0, XC) = 0.0025
PGV(XC) = 0.052

Nunavut



NOT FOR CONSTRUCTION

PERMIT TO PRACTICE
GUY ARCHITECTS LTD.
Signature
Date 23 / 10 / 2025
PERMIT NUMBER: P 840
NT/NU Association of Professional Engineers and Geoscientists

No.	Description	Date	By
0	ISSUED FOR TENDER	OCT 23/25	MMG

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GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

STRUCTURAL

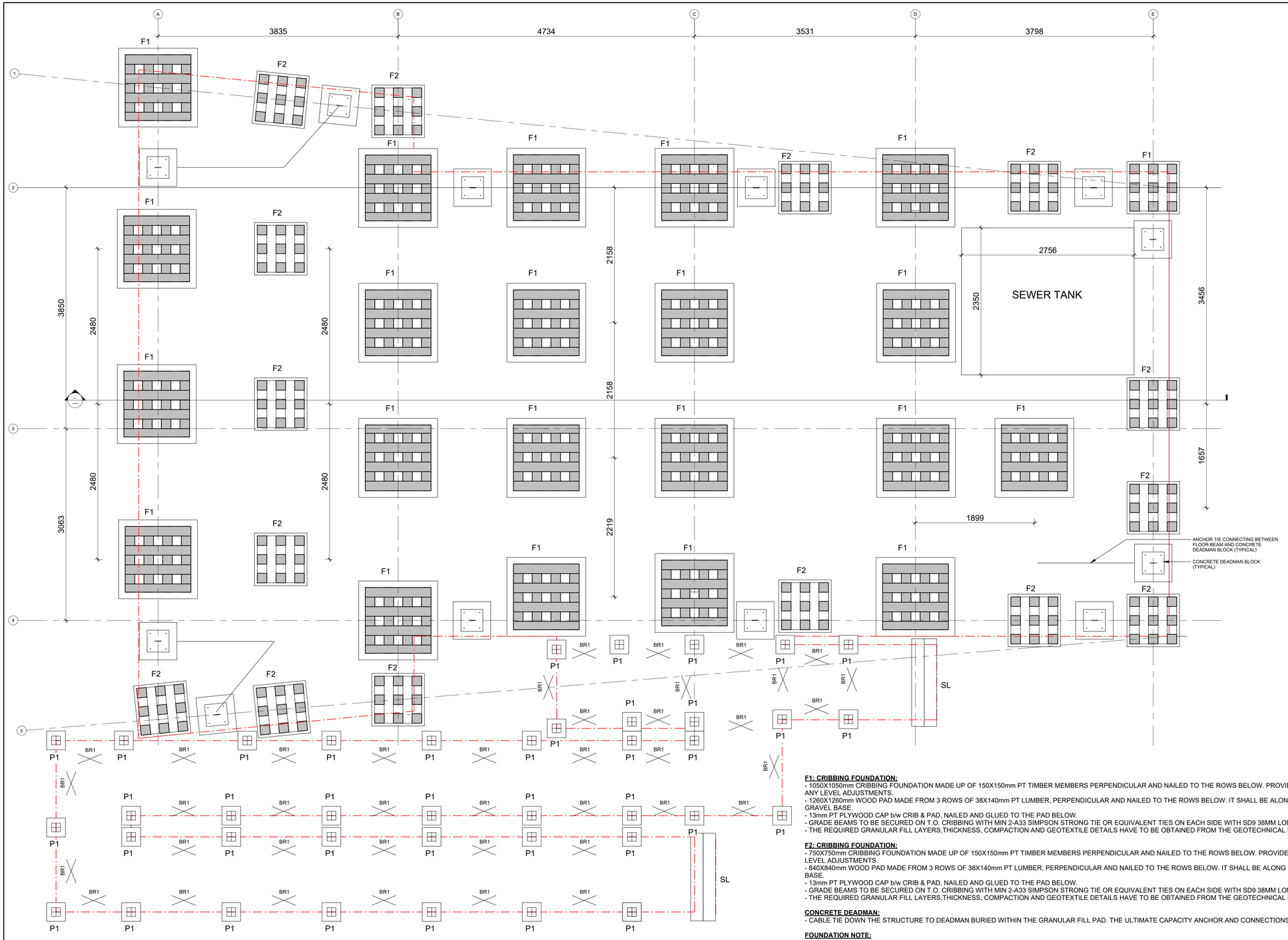
GENERAL NOTES

Prime Consultant
CBCL

Sub Consultant
GUY ARCHITECTS
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REGISTERED PROFESSIONAL ENGINEER
M.M. GEORGE
LICENSEE
23/10/2025
NT/NU

GA no. 23052	Contract No 22205-00762
Date 19/06/2025	Scale
Designed RWG	Drawn JO
Checked RWG	Approved DDP
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Drawing No BS 100	



1 FOUNDATION PLAN
1 : 30

F1: CRIBBING FOUNDATION:
- 1050X1050mm CRIBBING FOUNDATION MADE UP OF 150X150mm PT TIMBER MEMBERS PERPENDICULAR AND NAILED TO THE ROWS BELOW. PROVIDE WEDGE PT TIMBER LAYER ON THE TOP FOR ANY LEVEL ADJUSTMENTS.
- 1260X1260mm WOOD PAD MADE FROM 3 ROWS OF 38X140mm PT LUMBER, PERPENDICULAR AND NAILED TO THE ROWS BELOW. IT SHALL BE ALONG WITH THE STEEL PIN DRIVEN INTO THE GRAVEL BASE.
- 13mm PT PLYWOOD CAP b/w CRIB & PAD, NAILED AND GLUED TO THE PAD BELOW.
- GRADE BEAMS TO BE SECURED ON T.O. CRIBBING WITH MIN 2-A33 SIMPSON STRONG TIE OR EQUIVALENT TIES ON EACH SIDE WITH SD9 38MM LONG SCREWS
- THE REQUIRED GRANULAR FILL LAYERS,THICKNESS, COMPACTION AND GEOTEXTILE DETAILS HAVE TO BE OBTAINED FROM THE GEOTECHNICAL ENGINEER.

F2: CRIBBING FOUNDATION:
- 750X750mm CRIBBING FOUNDATION MADE UP OF 150X150mm PT TIMBER MEMBERS PERPENDICULAR AND NAILED TO THE ROWS BELOW. PROVIDE WEDGE PT TIMBER LAYER ON THE TOP FOR ANY LEVEL ADJUSTMENTS.
- 840X840mm WOOD PAD MADE FROM 3 ROWS OF 38X140mm PT LUMBER, PERPENDICULAR AND NAILED TO THE ROWS BELOW. IT SHALL BE ALONG WITH THE STEEL PIN DRIVEN INTO THE GRAVEL BASE.
- 13mm PT PLYWOOD CAP b/w CRIB & PAD, NAILED AND GLUED TO THE PAD BELOW.
- GRADE BEAMS TO BE SECURED ON T.O. CRIBBING WITH MIN 2-A33 SIMPSON STRONG TIE OR EQUIVALENT TIES ON EACH SIDE WITH SD9 38MM LONG SCREWS
- THE REQUIRED GRANULAR FILL LAYERS,THICKNESS, COMPACTION AND GEOTEXTILE DETAILS HAVE TO BE OBTAINED FROM THE GEOTECHNICAL ENGINEER.

CONCRETE DEADMAN:
- CABLE TIE DOWN THE STRUCTURE TO DEADMAN BURIED WITHIN THE GRANULAR FILL PAD. THE ULTIMATE CAPACITY ANCHOR AND CONNECTIONS SHOULD NOT BE LESS THAN 17.8 kN (4000 IBS).

FOUNDATION NOTE:
- THE PROPOSED WOOD CRIB FOUNDATION MUST BE REOMMENDED AND APPROVED BY THE GEOTECHNNICAL ENGINEER PRIOR TO START THE CONSTRUCTION AS WELL AS THE GEOTECHNICAL ENGINEER'S APPROVAL STATUS TO BE UPDATED WITH GUY ARCHITECT.
- THE PROPOSED FOUNDATION IS A SHALLOW FOUNDATION ON COMPACTED GRANULAR. THE SEASONAL MOVEMENT OF THE GRADE WILL AFFECT THIS TYPE OF FOUNDATION DEPENDING ON THE TYPE OF SUBGRADE SOIL. TO REDUCE THE ADJUSTMENT NEEDED ON THE FOUNDATION DURING LIFETIME OF THE BUILDING , GEOTECHNICAL ENGINEER RECOMMENDATION TO BE FOLLOWED.

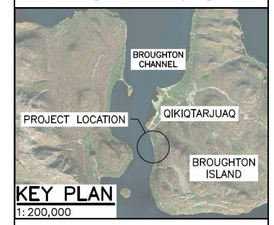
P1 - RAMP/LANDING
- 140X140MM PT POSTS ON MIN 300X300MM CONCRETE BLOCKS ON MIN 300MM DEEP COMPACTED GRANULAR

SL - RAMP/STAIRS SLEEPER
- 200X200MM ROUGH SAWN PT SLEEPER ON GRADE AS SHOWN ON S109
- ALL 200X200S NAILED/SCREWED TOGETHER AT MAX 150MM O/C

BR1 - WOODEN CROSS BRACING
- 2-38X140MM PT LAG SCREWED TO SIDES OF P2 POSTS W/ FILLER SANDWICHED IN MIDDLE

PROJECT NORTH
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KEY PLAN
1: 200,000

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Revision or Issue

GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

STRUCTURAL

FOUNDATION PLAN

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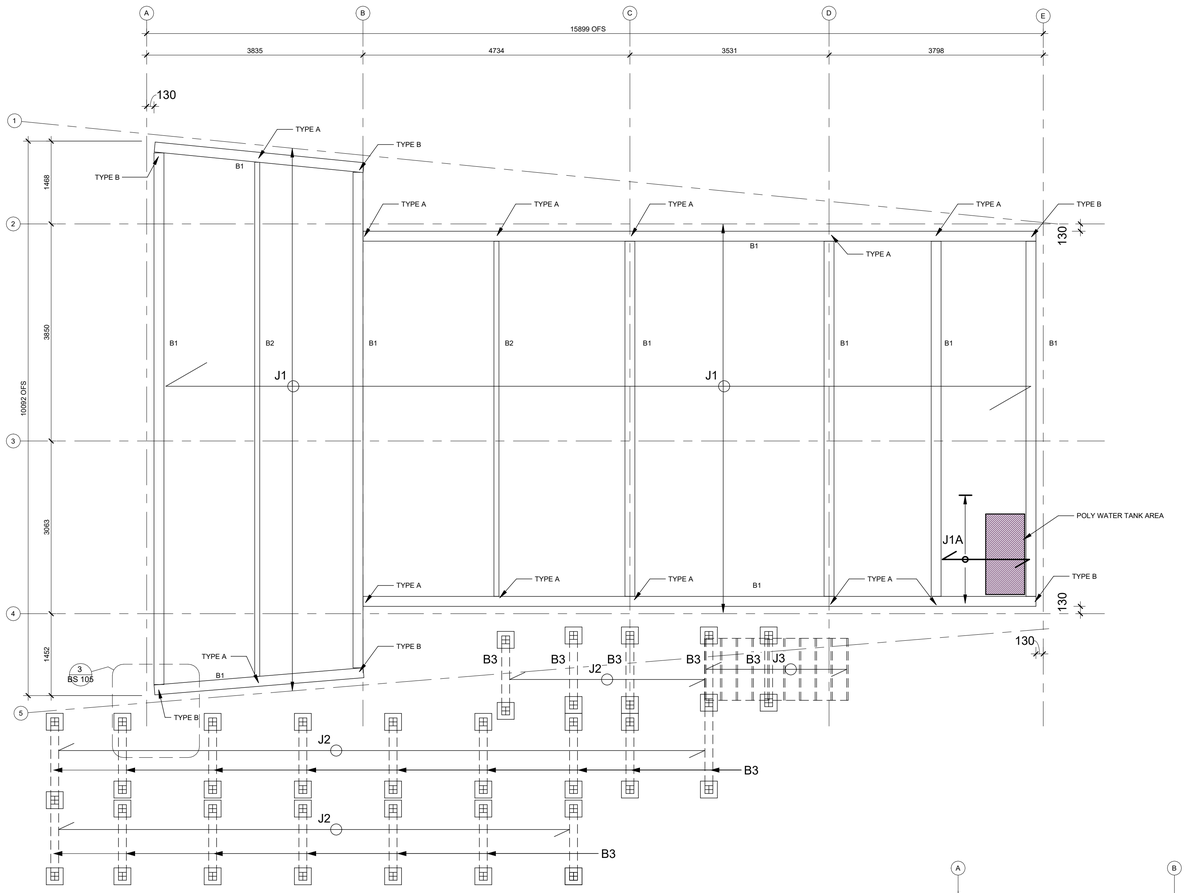
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M.M. GEORGE
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23/10/2025
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1 MAIN FLOOR PLAN
1 : 50

B1 - FLOOR BEAM
- 4 PLY 44x457 2.0E MICROLLAM LVL
- SUPPORTED ON TOP OF WOOD CRIB FOUNDATION

B2 - FLOOR BEAM
- 2 PLY 44x457 2.0E MICROLLAM LVL
- SUPPORTED ON TOP OF WOOD CRIB FOUNDATION

TYPE A CONNECTION
- PERPENDICULAR BEAM CONNECTION USE EXTRA HEAVY GIRDER FACE MOUNT HANGERS HHGU SUPPLIED BY SIMPSON

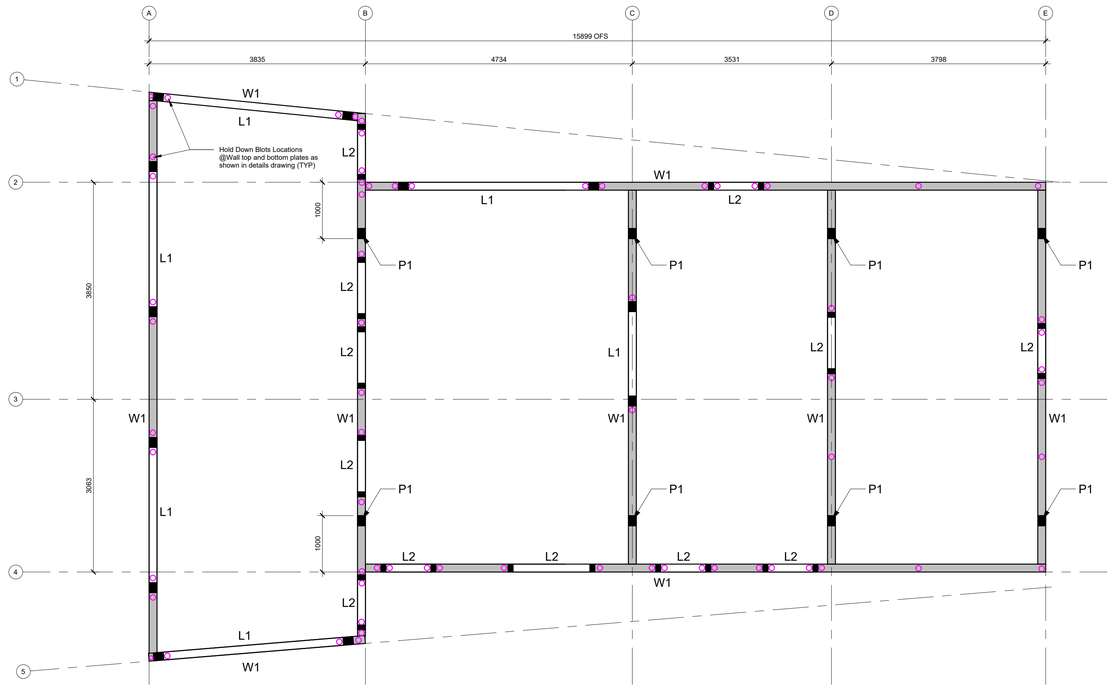
TYPE B CONNECTION
- CUSTOMISTED STEEL ANGLE AND PLATE WITH THROUGH BOLTS

J1 - MAIN FLOOR JOISTS
- TJI560 406MM DEEP @ 406mm O/C
- USE SIMPSON STRONG TIE TO SECURE BEAMS
- ALL BRIDGING, BLOCKING, STRAPPING AND HURRICANE TIES BY MANUFACTURER
- DOUBLE JOIST/RIM JOIST/BLOCKING AT THE ENDS, OPENINGS AND STAIRS

J1A - MAIN FLOOR JOISTS
- DOUBLE JOISTS TJI560 406MM DEEP @ 300mm O/C
- USE SIMPSON STRONG TIE TO SECURE BEAMS
- ALL BRIDGING, BLOCKING, STRAPPING AND HURRICANE TIES BY MANUFACTURER
- DOUBLE JOIST/RIM JOIST/BLOCKING AT THE ENDS, OPENINGS AND STAIRS

J2 - RAMP/LANDING JOISTS
- 38X235MM PT SPF @ MAX 400MM O/C
- DOUBLE AT EDGES
- W/ 1X38X286MM PT SPF AT EDGES AT EXTERIOR FACE
- W/ BLOCKING ON T/O BEAMS BELOW
- USE SIMPSON STRONG TIE H2.5A TO SECURE TO BELOW BEAMS/SLEEPERS
- TOP FINISH TO BE METAL GRATES. FOR TOP FINISH REFER TO ARCH.

J3 - EXTERIOR STAIRS STRINGERS
- 2X38X286MM PT SPF AT EDGES AND 38X286MM PT SPF @ MAX 400MM O/C IN BETWEEN.
- ATTACHED WITH ADJUSTABLE JOIST HANGERS TO SIDE OF JOIST/RIM JOIST OF LANDINGS.
- W/ BLOCKING ON T/O BEAM BELOW
- USE SIMPSON STRONG TIE TO SECURE TO BELOW BEAMS
- FOR TOP FINISH REFER TO ARCH.



2 MAIN FLOOR WALL FRAMING PLAN
1 : 50

W1: WALL

- 38X140MM SPF WOOD STUDS@ 400MM O/C
- BOTTOM PLATE TO BE FASTENED TO FLOOR/RIM BOARDS W/MIN 16D (0.135" X 3.5") NAILS @ MAX 150MM O/C
- W/ 2 or 3 ROWS OF BLOCKING
-W/ 16MM PLYWOOD SHEATHING AT EXTERIOR W/ FASTENERS @ 76MM O/C AT EDGE AND 200MM O/C AT INTERMEDIATE SUPPORTS
- W/ 16MM GWB SHEATHING AT INTERIOR W/ FASTENERS @ 100MM O/C AT EDGE AND 250MM O/C AT INTERMEDIATE SUPPORTS

LINTEL L1
- 3PLY 44x302- 2.0E Microllam® LVL Lintel
- 4PLY 44x140 2.0E Microllam® LVL Lintel Jack Post on both sides
- 44x140 2.0E Microllam® LVL King Post

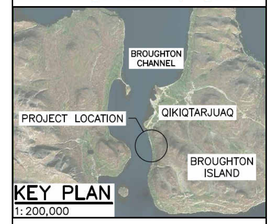
LINTEL L2
- 3PLY 44x286- 2.0E Microllam® LVL Lintel
- 2PLY 44x140 2.0E Microllam® LVL Lintel Jack Post on both sides
- 44x140 2.0E Microllam® LVL King Post

POST P1
- 4PLY 44x140 2.0E Microllam® LVL

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GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

STRUCTURAL

MAIN FLOOR AND WALL FRAMING PLAN

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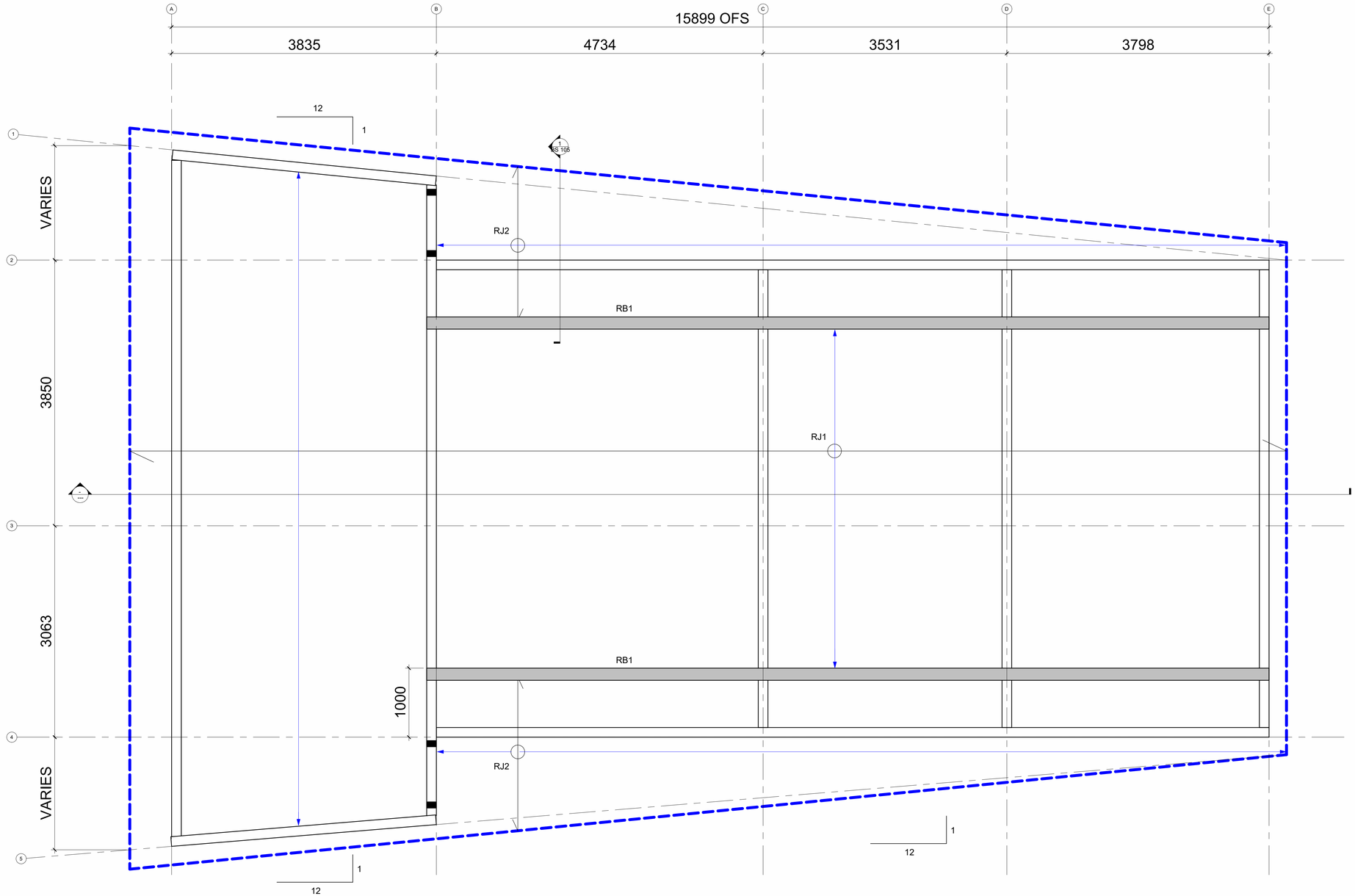
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Drawing No
BS 102

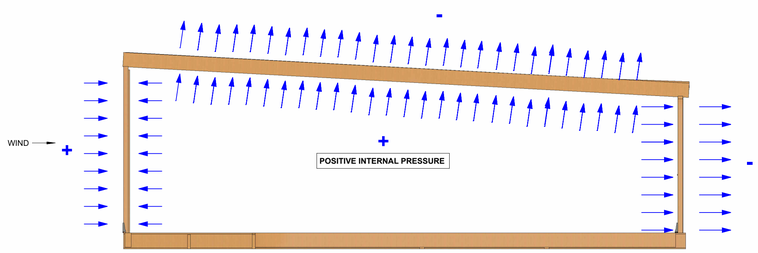


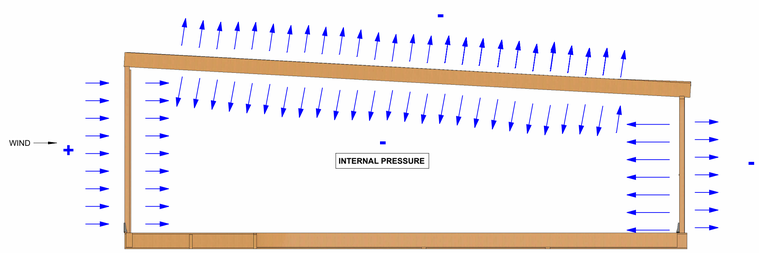
RJ1 - ROOF RAFTERS
- MIN 406MM DEEP PRE-ENGINEERED TJI 560 @ 400mm O/C
- Mechanical Connectors/Hurricane ties shall be used in joints

RJ2 - ROOF RAFTERS
- 44x406 2.0E MICROLLAM LVL @ 400mm O/C
- Mechanical Connectors/Hurricane ties shall be used in joints

RB1 - ROOF BEAM
- 4PLY 44x406 2.0E MICROLLAM LVL
- Mechanical Connectors/Hurricane ties shall be used in joints

NOTE:
- COORDINATE WITH ARCH. FOR ROOF SLOPE.
- ALL BRIDGING AND HURRICANE TIES BY MANUFACTURER.





1 ROOF FRAMING PLAN
1 : 30

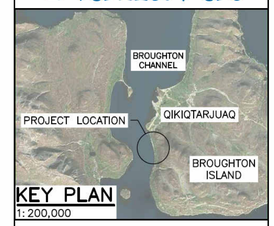
2 POSITIVE WIND UPLIFT DIAGRAM

3 NEGATIVE WIND UPLIFT DIAGRAM

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GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

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ROOF FRAMING PLAN

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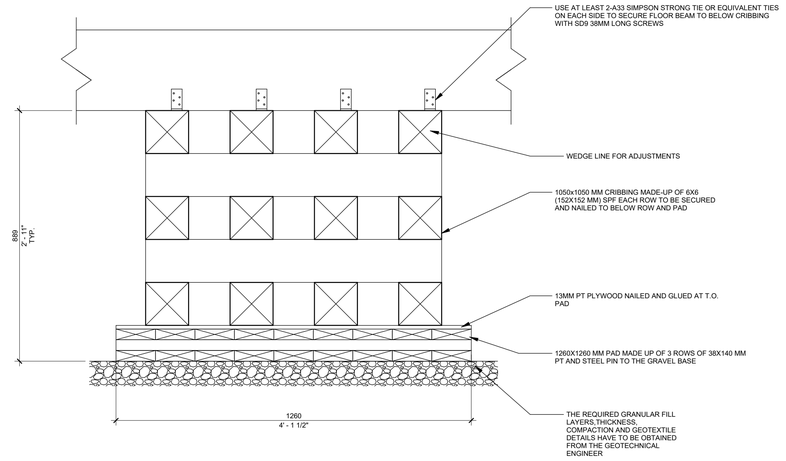
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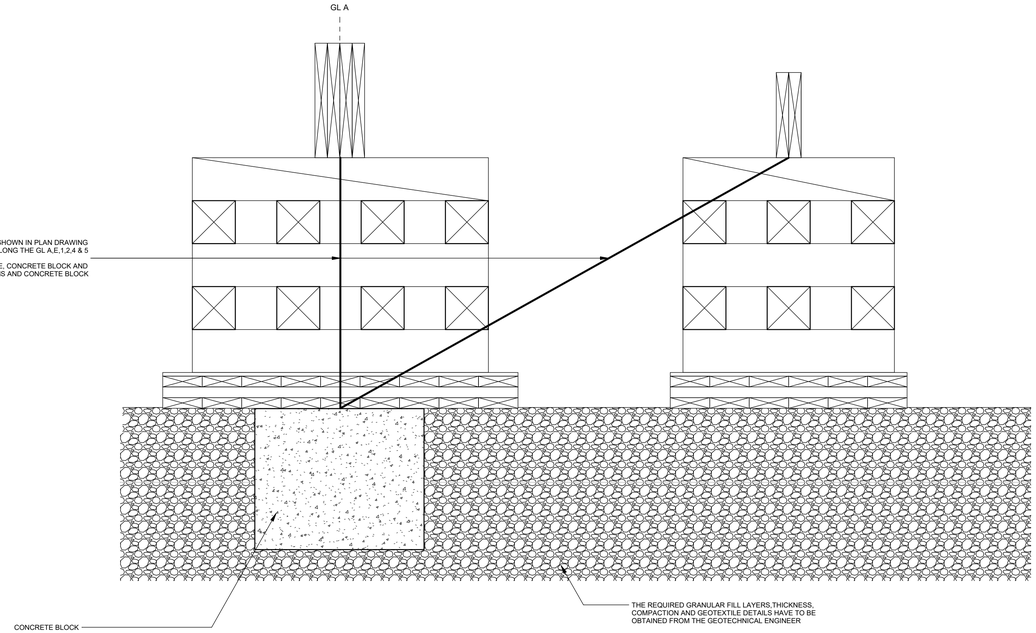
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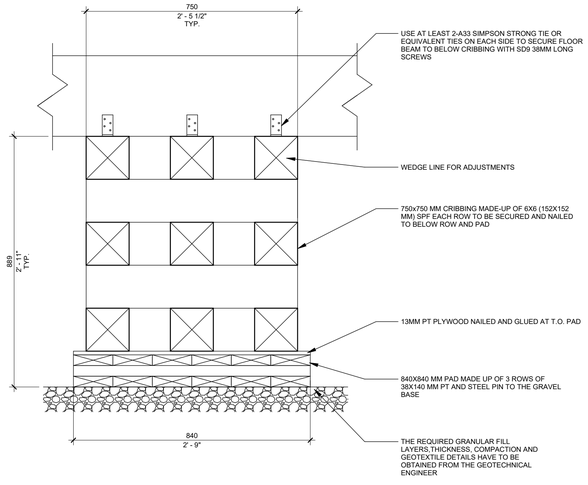


3 CONCRETE DEADMAN CONCRETE BLOCK DETAIL
1 : 10

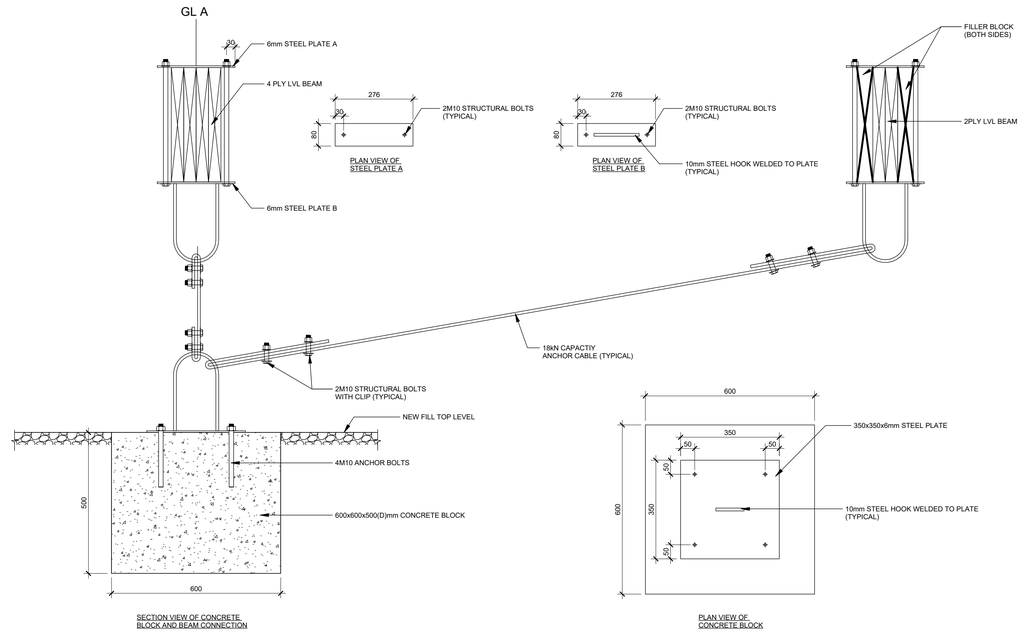


CONCRETE DEADMAN:
- CABLE TIE DOWN THE STRUCTURE TO DEADMAN BURIED WITHIN THE GRANULAR FILL PAD. THE ULTIMATE CAPACITY ANCHOR AND CONNECTIONS SHOULD NOT BE LESS THAN 17.8 kN (4000 IBS).

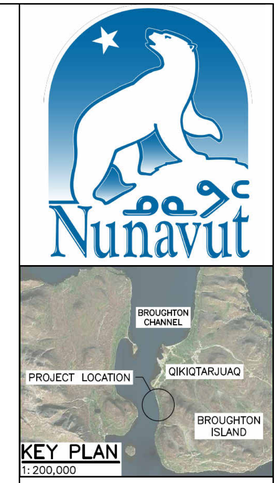
1 TIMBER CRIBS (F1)
1 : 10



2 TIMBER CRIBS (F2)
1 : 10



4 CONCRETE DEADMAN DETAIL
1 : 10



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QIKIQTARJUAQ MARINE INFRASTRUCTURE

STRUCTURAL

TIMBER CRIBBING DETAILS

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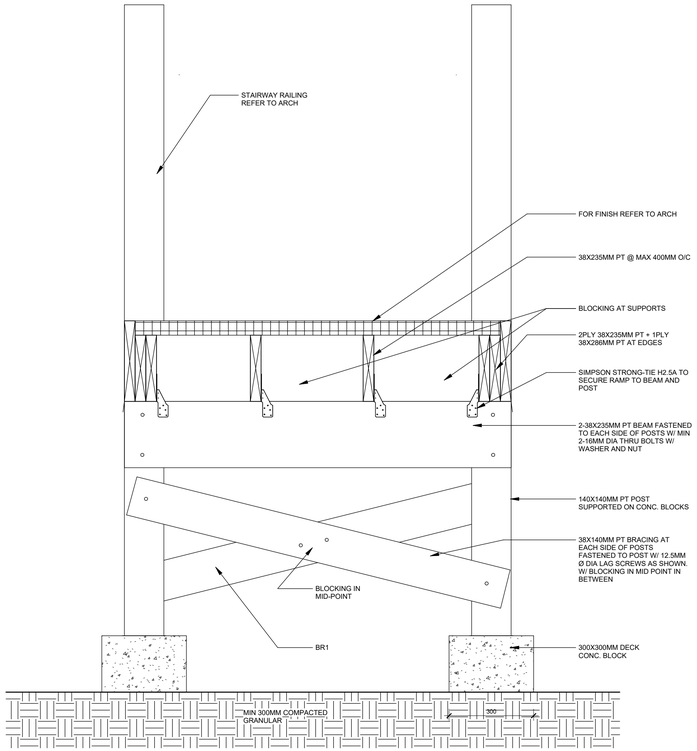
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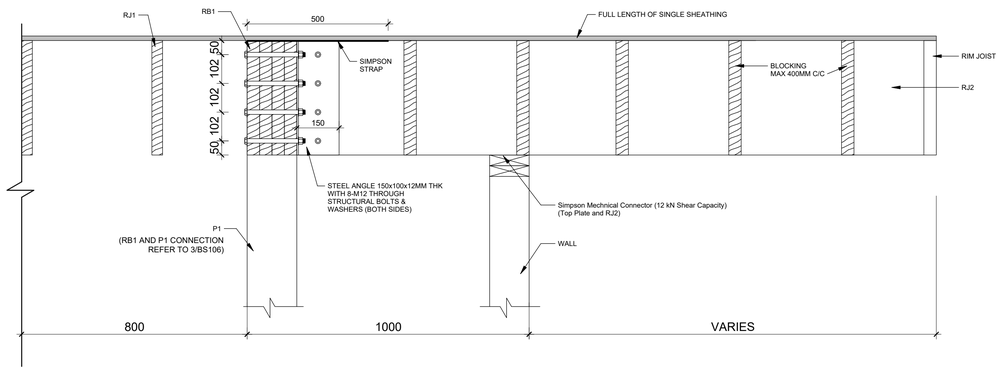
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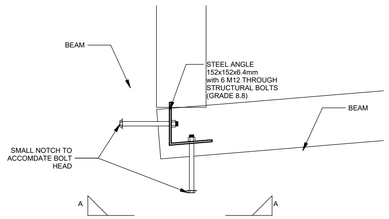
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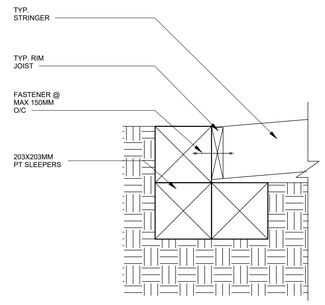
2 TYP. RAMP SEC.
1 : 10



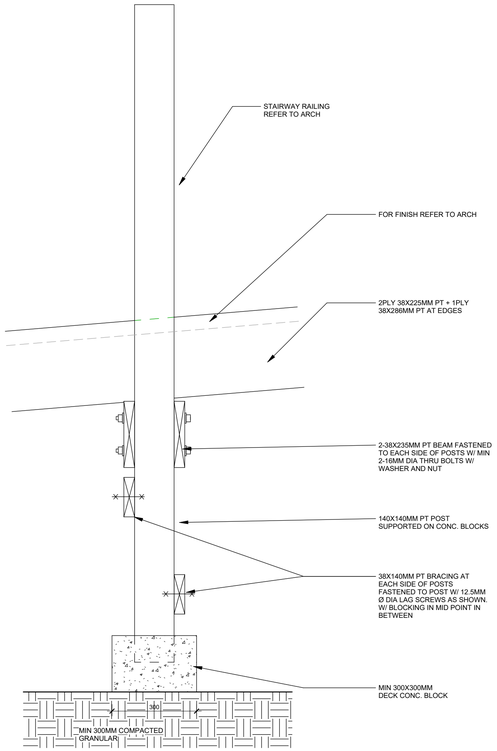
1 SECTION A
1 : 10



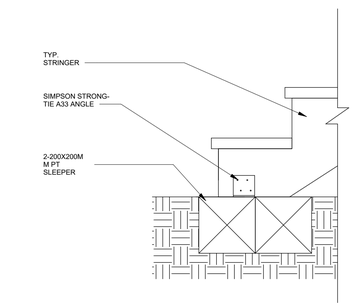
3 TYPE B
1 : 10



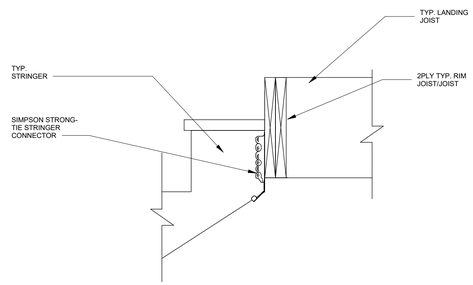
4 TYP. RAMP TO GRADE
1 : 10



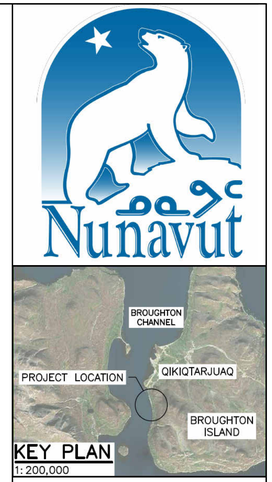
5 TYP. P1 DETAILS
1 : 10



6 TYP. EXTERIOR STAIRS TO LANDING/GRADE
1 : 10



7 TYP. EXTERIOR STAIRS TO LANDING
1 : 10



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Revision or Issue

GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

STRUCTURAL

DETAILS

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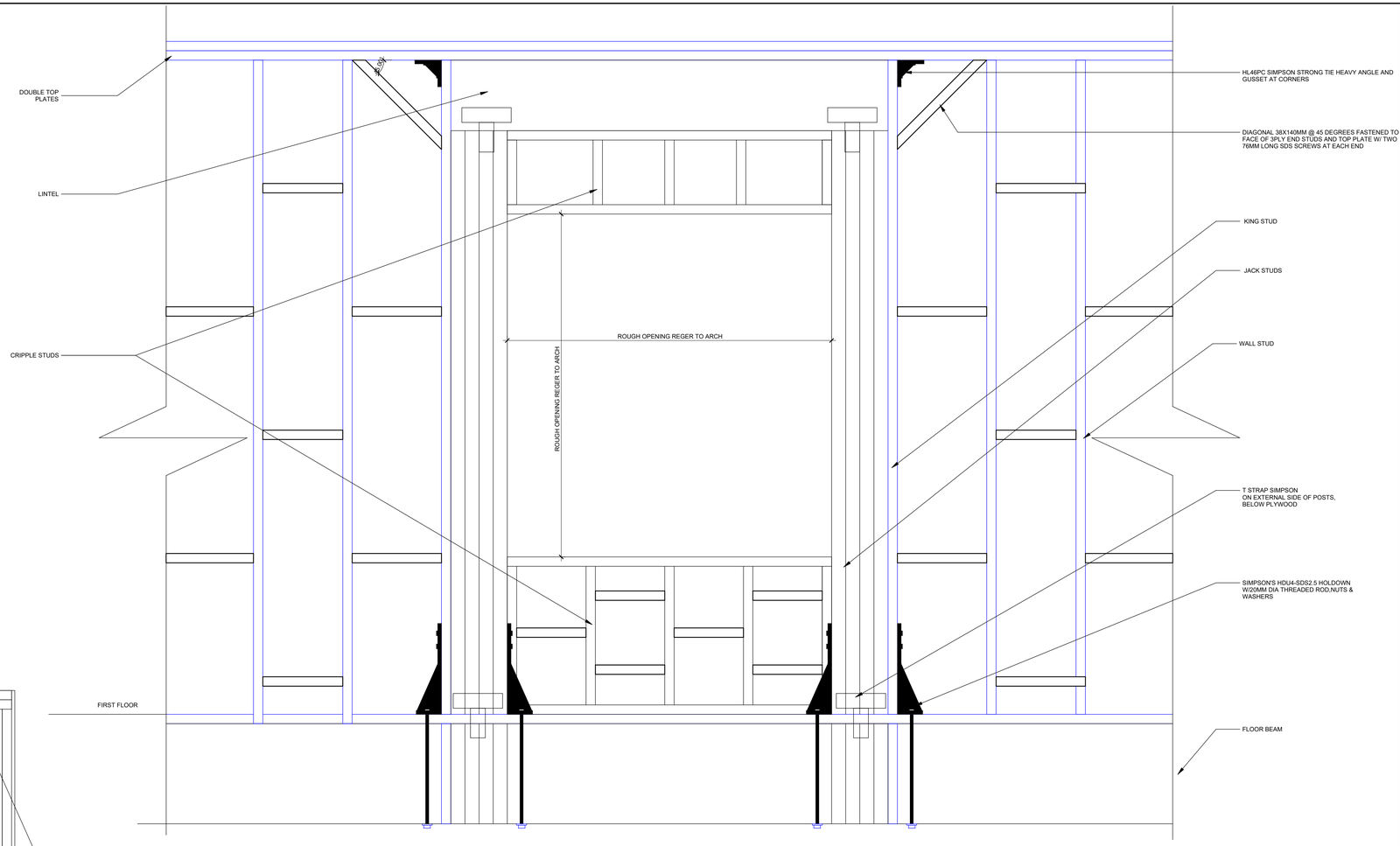
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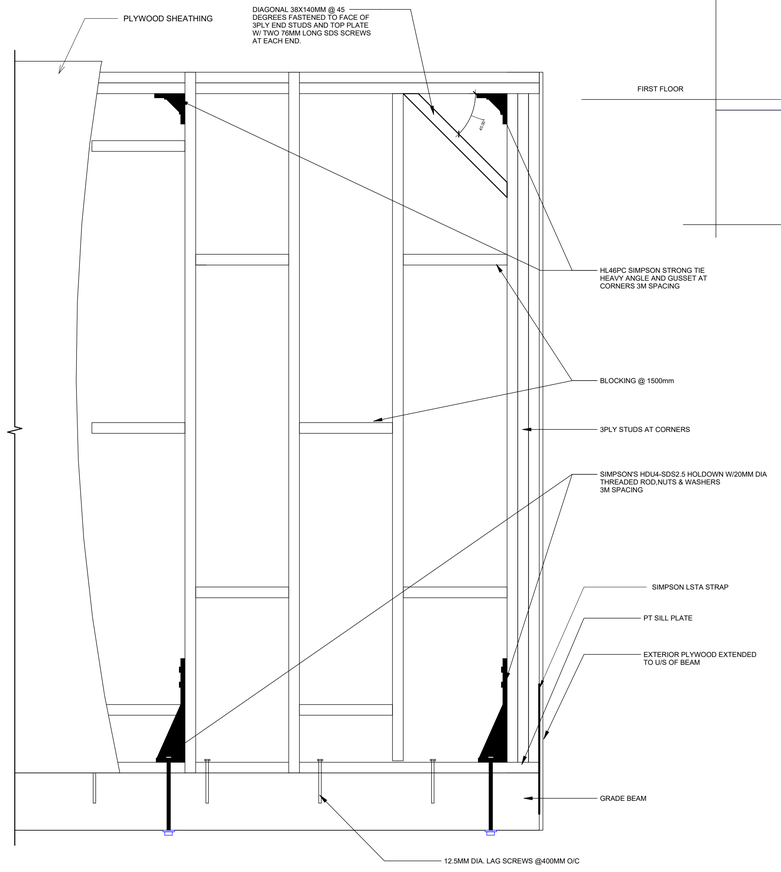
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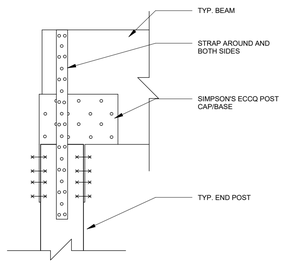
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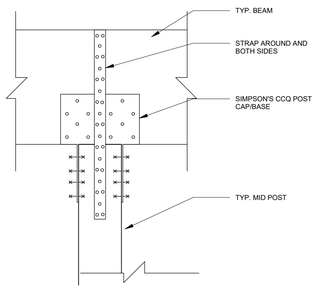


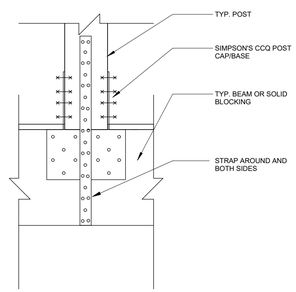
1 Lintel Framing
1 : 10



2 EXTERIOR WALL FRAMING CORNER DETAIL
1 : 10







3 TYP. POST TO BEAM/FLOOR1
1 : 10



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GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

STRUCTURAL

DETAILS

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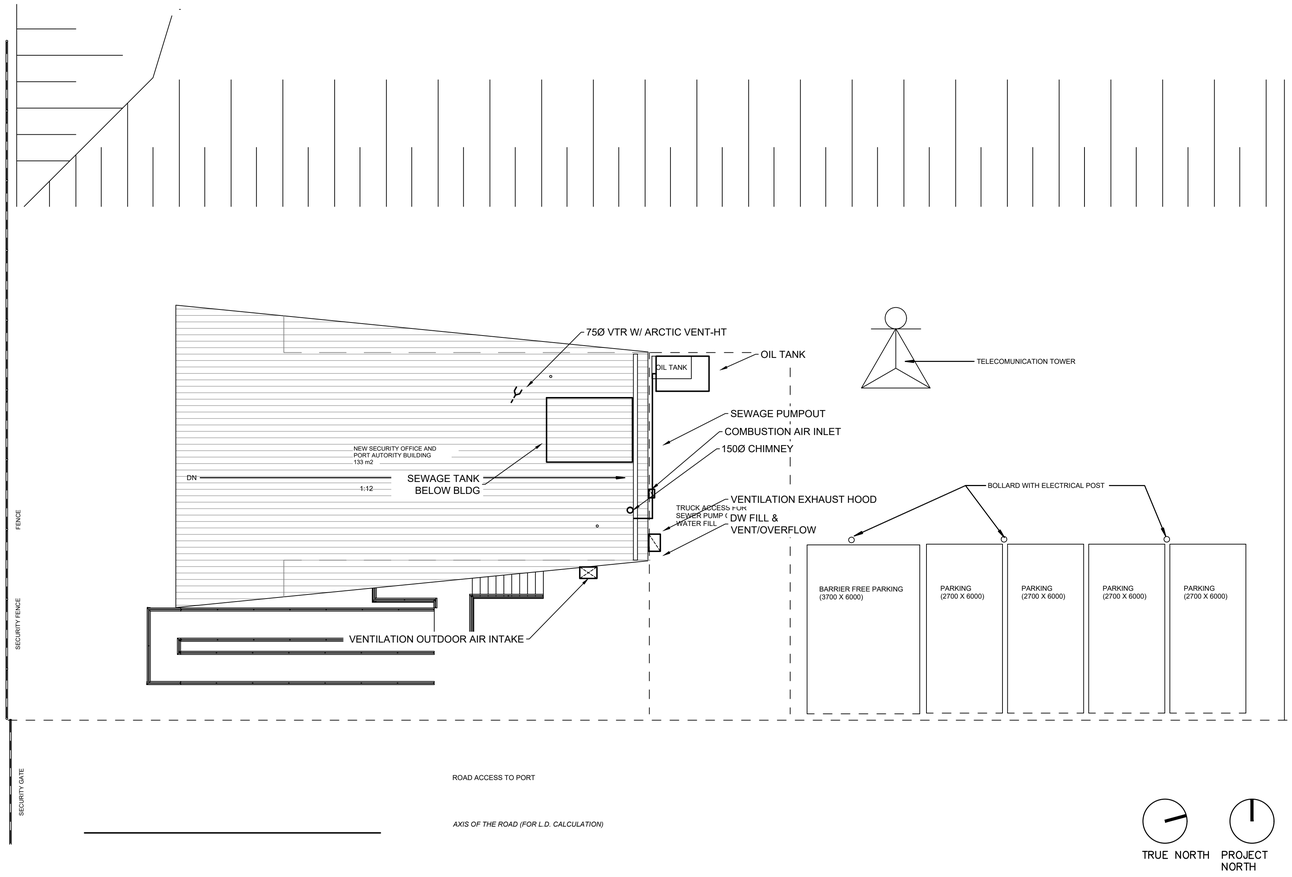
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Sheet No 7 of 7	
Drawing No BS 106	



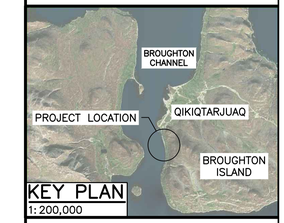
SITE PLAN
1:100

LEGEND

ELBOW RISING	SANITARY DRAIN	SUPPLY DUCT (UP&DOWN)	
ELBOW DROPPING	SANITARY DRAIN-BURIED	RETURN DUCT (UP&DOWN)	
VALVE	VENT PIPE	EXHAUST DUCT (UP&DOWN)	
GLOBE VALVE	COLD WATER	ROUND DUCT (UP&DOWN)	
CHECK VALVE	HOT WATER		
PLUG VALVE	HOT WATER RECIRC	BALANCING DAMPER	
CONTROL VALVE		FIRE DAMPER	
RELIEF VALVE	HEATING WATER SUPPLY		
REDUCER/INCREASER	HEATING WATER RETURN	ACOUSTIC LINING	
UNION			
FLEXIBLE CONNECTION	CLEANOUT	AIR OUTLET/INLET	
AUTOMATIC AIR VENT	FLOOR DRAIN	RADIATION ELEMENT	
STRAINER			
CAP			
PUMP			
THERMOSTAT			
HUMIDISTAT			
THERMOMETER			
PRESSURE GAUGE			

For Legend not specified refer to ASHRAE Fundamentals Handbook

Nunavut



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File No. 23-029

GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

MECHANICAL

OFFICE BUILDING SITE PLAN

Prime Consultant

CBCL

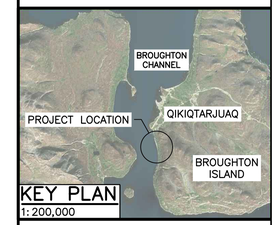
Sub Consultant

Thorn Engineering
Box 11012 RPO Panda Centre
Yellowknife, NT X1A 3X7
867-873-5151
jon@thorneng.com

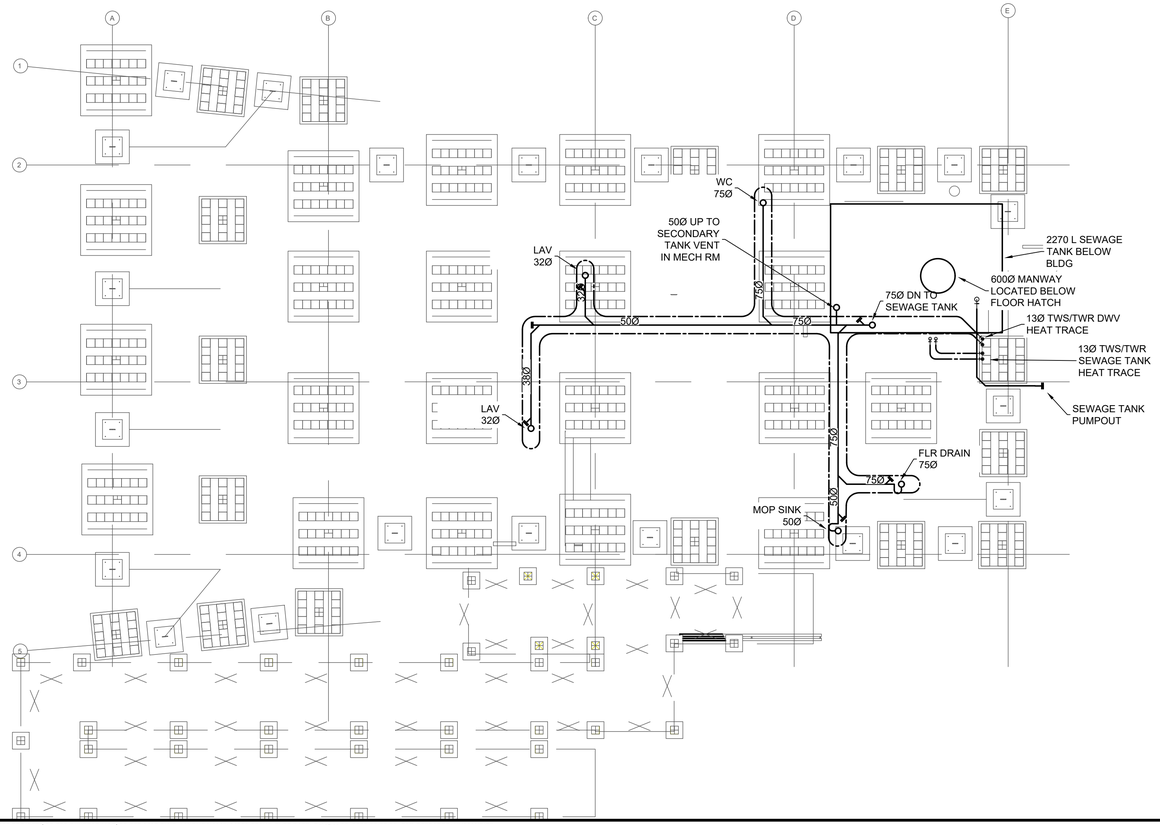
REGISTERED PROFESSIONAL ENGINEER JON HOWE NT/NU

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22205-00762	23-029
Date	Scale
06 19/25	1:50
Designed	Drawn
JH	JH
Checked	Approved
JH	DDP
Sheet No	
1 of 8	
Drawing No	
BM 100	

DRAWING NAME: P:\THORNYSHIT\2023 PROJECTS\23-029 QIKIQTARJUAQ\23-029-M1P.DWG LAYOUT NAME: M100 SITE PLOT DATE: October 20, 2025 09:39:34 CAD OPERATOR: HUMANRICE



KEY PLAN
1: 200,000



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GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

MECHANICAL

OFFICE BUILDING
SOFFIT/BREEZEWAY PLAN

Prime Consultant

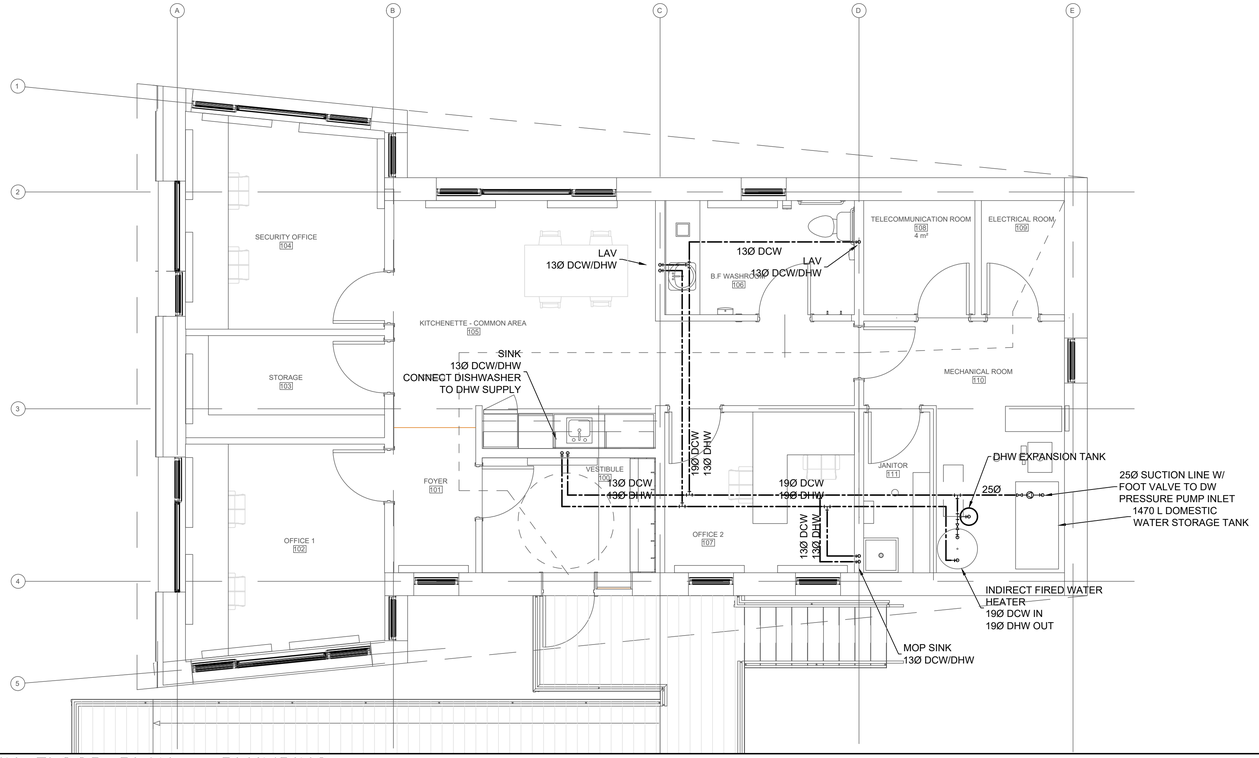
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Sub Consultant

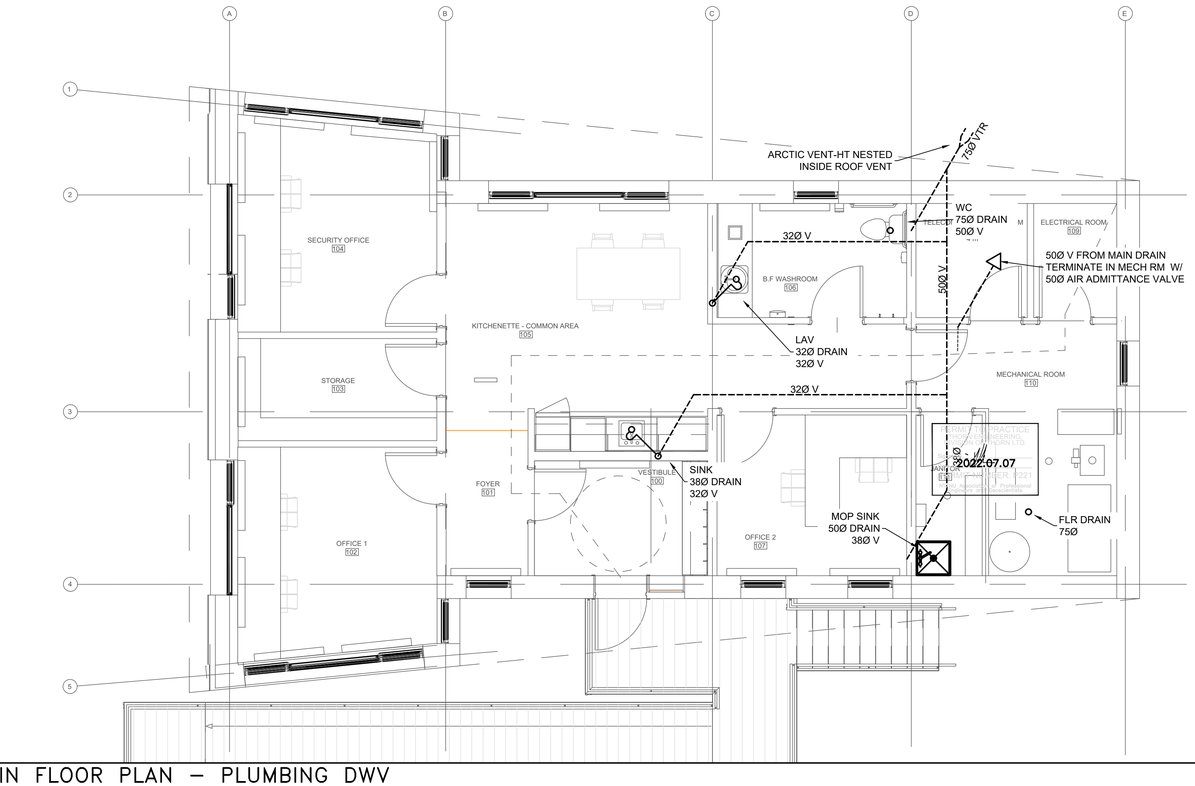
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REGISTERED PROFESSIONAL ENGINEER
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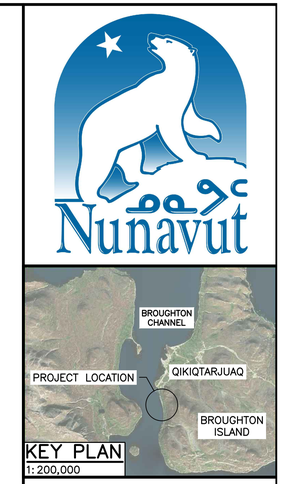
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Date: 06 19/25	Scale: 1:50
Designed: JH	Drawn: JH
Checked: JH	Approved: DDP
Sheet No: 2 of 8	
Drawing No: BM 101	



MAIN FLOOR PLAN – PLUMBING
1:50



MAIN FLOOR PLAN – PLUMBING DWV
1:50



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GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

MECHANICAL

OFFICE BUILDING
MAIN FLOOR PLAN
PLUMBING

Prime Consultant

CBCL

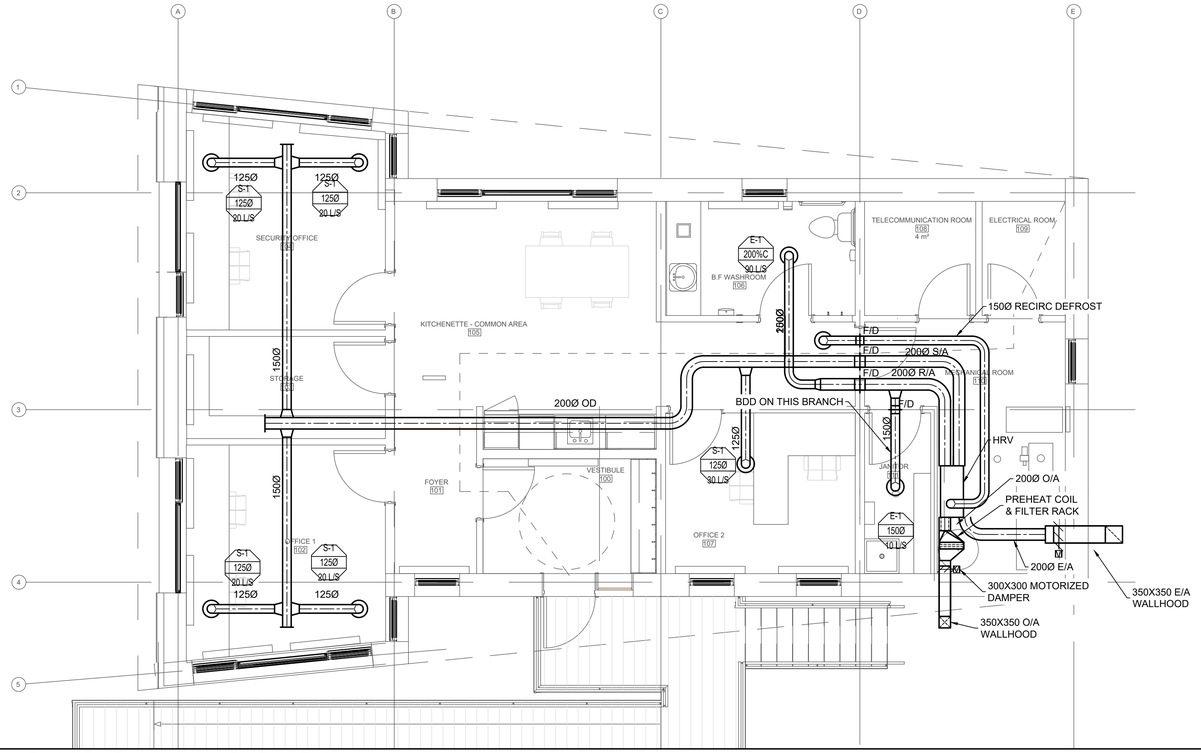
Sub Consultant

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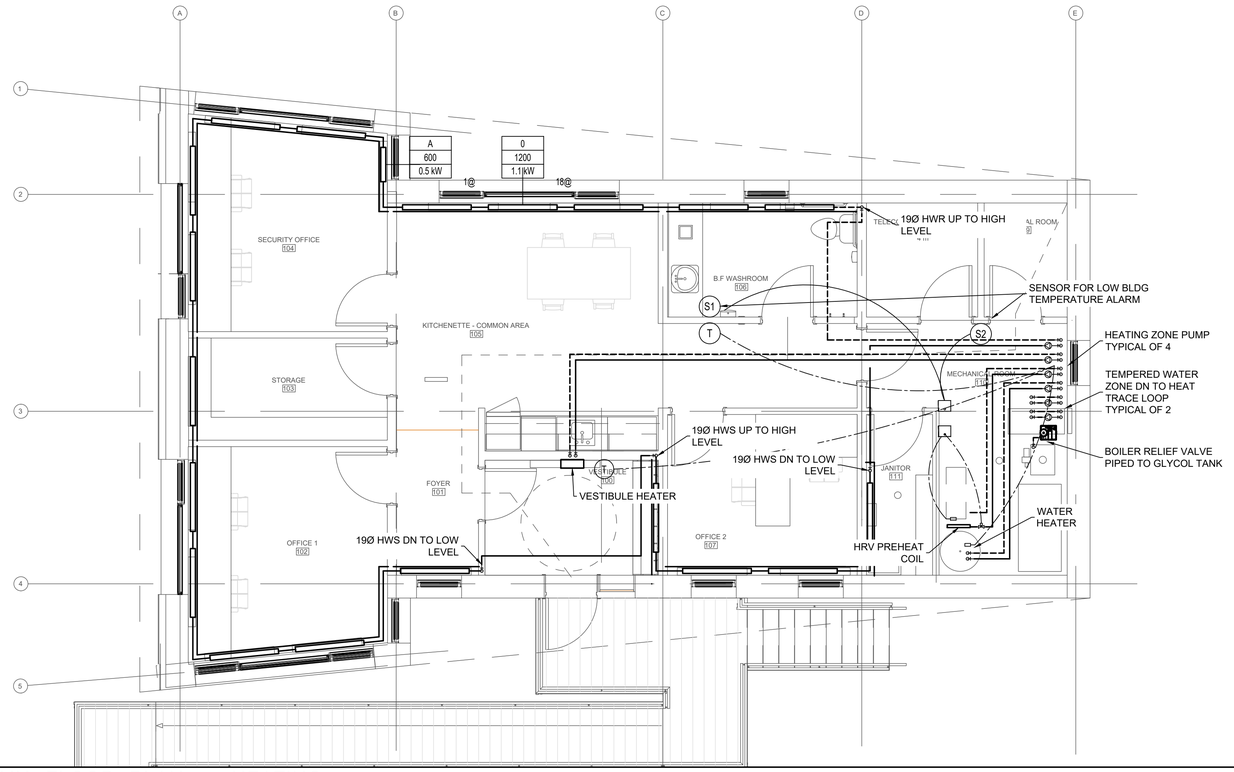
REGISTERED PROFESSIONAL ENGINEER
JON HOWE
NT/NU

CBCL No	Contract No
22205-00762	23-029
Date: 06 19/25	Scale: 1:50
Designed: JH	Drawn: JH
Checked: JH	Approved: DDP
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Drawing No: BM 102	

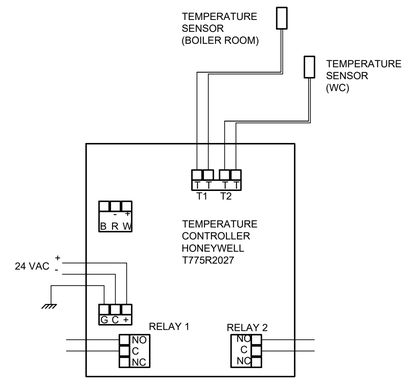
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MAIN FLOOR PLAN – VENTILATION
1:50



MAIN FLOOR PLAN – HEATING
1:50

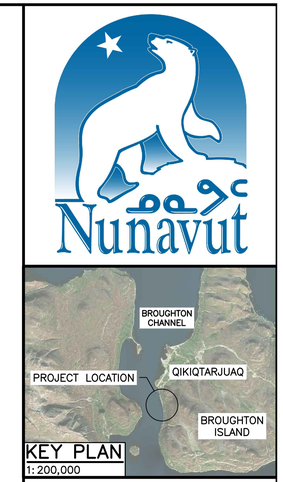


SEQUENCE OF OPERATION: LOW BLDG TEMPERATURE
(DRY CONTACT FOR AUTODIALLER)

UPON A LOW TEMPERATURE CONDITION AT SENSOR T1,
RELAY 1 IS ENERGIZED
(INIT SETPOINT = 5°C)

SIMILAR FOR SENSOR T2/RELAY 2

BLDG LOW TEMP HEATING CONTROL
NTS



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GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

MECHANICAL
OFFICE BUILDING
MAIN FLOOR PLAN
HEATING &
VENTILATION

Prime Consultant

CBCL

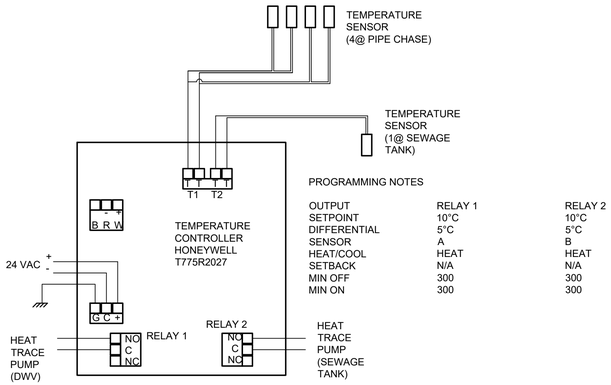
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22205-00762	23-029
Date	Scale
06 19/25	1:50
Designed	Drawn
JH	JH
Checked	Approved
JH	DDP
Sheet No	
4 of 8	
Drawing No	
BM 103	

DRAWING NAME: P:\THORNYSHIT\2023 PROJECTS\23-029 QIKIQTARJUAQ\23-029-M1P.DWG LAYOUT NAME: M103 HEAT VENT PLOT DATE: October 20. 2025 09:39:37 CAD OPERATOR: HUMANRICE



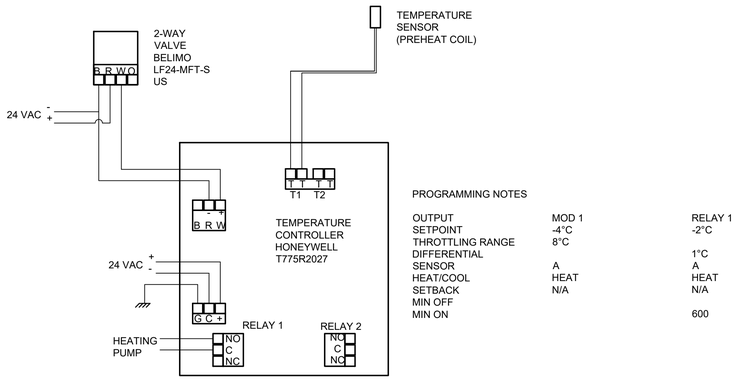
PROGRAMMING NOTES

OUTPUT	RELAY 1	RELAY 2
SETPOINT	10°C	10°C
DIFFERENTIAL	5°C	5°C
SENSOR	A	B
HEAT/COOL	HEAT	HEAT
SETBACK	N/A	N/A
MIN OFF	300	300
MIN ON	300	300

SEQUENCE OF OPERATION: HEAT TRACE

ON A CALL FOR HEAT, RELAY IS ENERGIZED AND RUNS PUMP

CONTROLLER (HEAT TRACE)
NTS



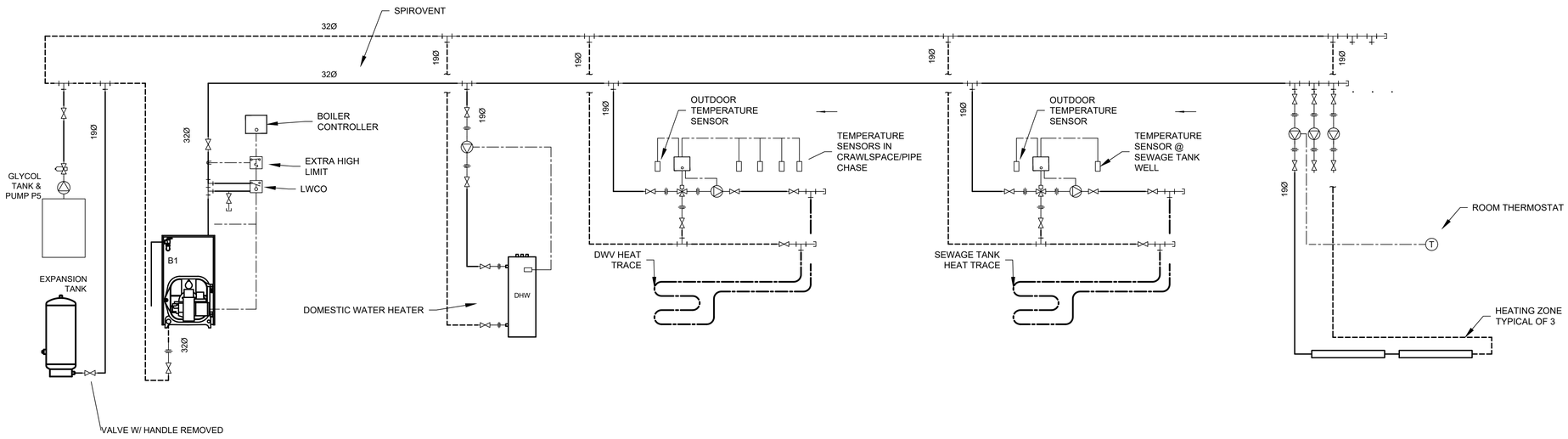
PROGRAMMING NOTES

OUTPUT	MOD 1	RELAY 1
SETPOINT	-4°C	-2°C
THROTTLING RANGE	8°C	
DIFFERENTIAL		1°C
SENSOR	A	A
HEAT/COOL	HEAT	HEAT
SETBACK	N/A	N/A
MIN OFF		
MIN ON		600

SEQUENCE OF OPERATION: PREHEAT COIL

ON A CALL FOR HEAT, RELAY IS ENERGIZED AND RUNS PUMP
2-WAY VALVE MODULATES TO MAINTAIN SETPOINT

CONTROLLER (HRV PREHEAT)
NTS



HEATING SCHEMATIC
NTS



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GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

MECHANICAL

OFFICE BUILDING HEATING SCHEMATICS

Prime Consultant

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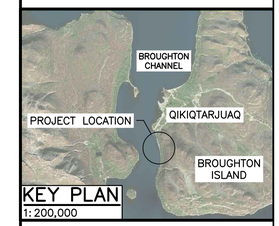
Sub Consultant

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REGISTERED PROFESSIONAL ENGINEER
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NT/NU

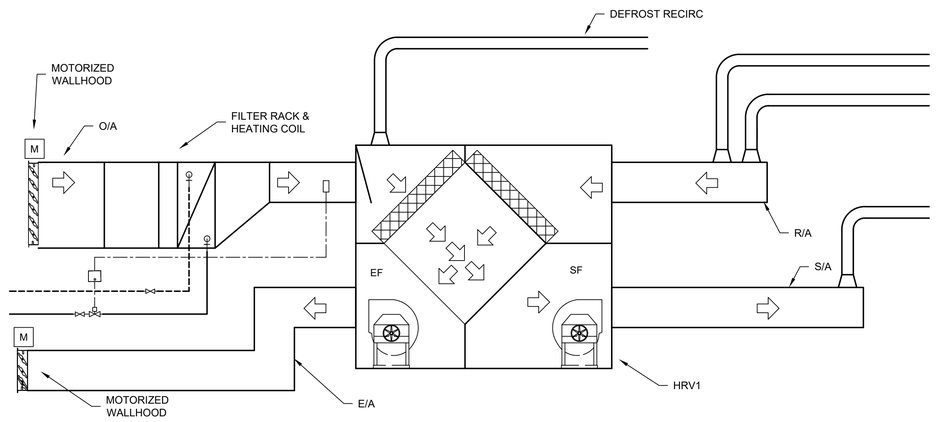
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22205-00762	23-029
Date	Scale
06 19/25	NTS
Designed	Drawn
JH	JH
Checked	Approved
JH	DDP
Sheet No	
5 of 8	
Drawing No	
BM 104	

DRAWING NAME: P:\THORN\SHIT\2023 PROJECTS\23-029 QIKIQTARJUAQ\23-029-M1P.DWG LAYOUT NAME: M104 HEAT SCHEM PLOT DATE: October 20, 2025 09:39:38 CAD OPERATOR: HUMANRICE



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NOTES:

HEATING COIL CONTROL MODULATES TO MAINTAIN DISCHARGE AIR TEMPERATURE.
INITIALLY SET @ -4°C
LOCATE SENSOR BETWEEN H/C AND HRV INLET

HRV CONTROLLER LOCATED IN COMMON AREA
HRV OPERATION ACCORDING TO USER PREFERENCE.

20 MIN TIMER SWITCH LOCATED IN WC WILL OVERRIDE HRV CONTROL, HRV WILL RUN AT HIGH SPEED FOR 20 MIN, THEN REVERT TO PREVIOUS MODE

VENTILATION NOTES
NTS

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0	ISSUED FOR TENDER	OCT 23/25	JH

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File No. 23-029

GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

MECHANICAL

OFFICE BUILDING VENTILATION NOTES

Prime Consultant

CBCL

Sub Consultant

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REGISTERED PROFESSIONAL ENGINEER
JON HOWE
NT/NU

CBCL No	Contract No
22205-00762	23-029
Date: 06 19/25	Scale: NTS
Designed: JH	Drawn: JH
Checked: JH	Approved: DDP
Sheet No: 6 of 8	
Drawing No: BM 105	

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MECHANICAL ROOM
110

JANITOR
111

6"Ø COMBUSTION AIR INLET
2" EXTERNAL INSULATION,
TERMINATE @ HIGH LEVEL

FOS RISER UP TO
FUSIBLE
VALVE/TIGER LOOP

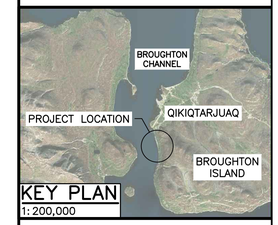
19Ø DCW
19Ø DHW
TO BUILDING

1477 L UPRIGHT
WATER TANK ON
VENTILATED BASE

WATER HEATER ON DRAIN PAN
19Ø DCW IN
19Ø DHW OUT

DW FILL POINT
&
VENT/OVERFLOW

DHW EXPANSION TANK



KEY PLAN
1: 200,000

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GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

MECHANICAL

OFFICE BUILDING
BOILER ROOM PLAN

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CBCL

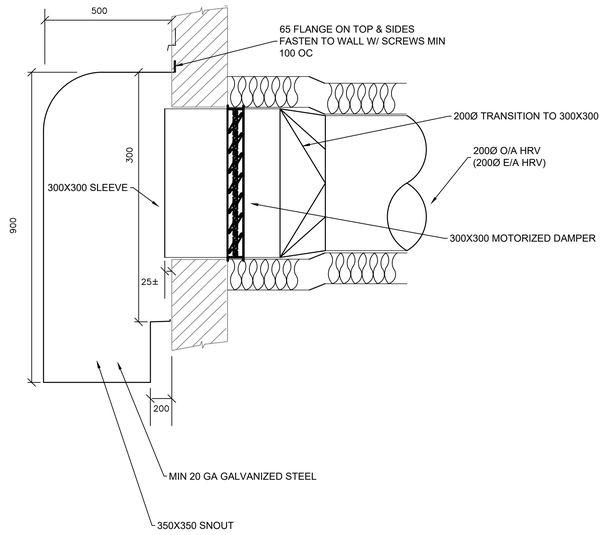
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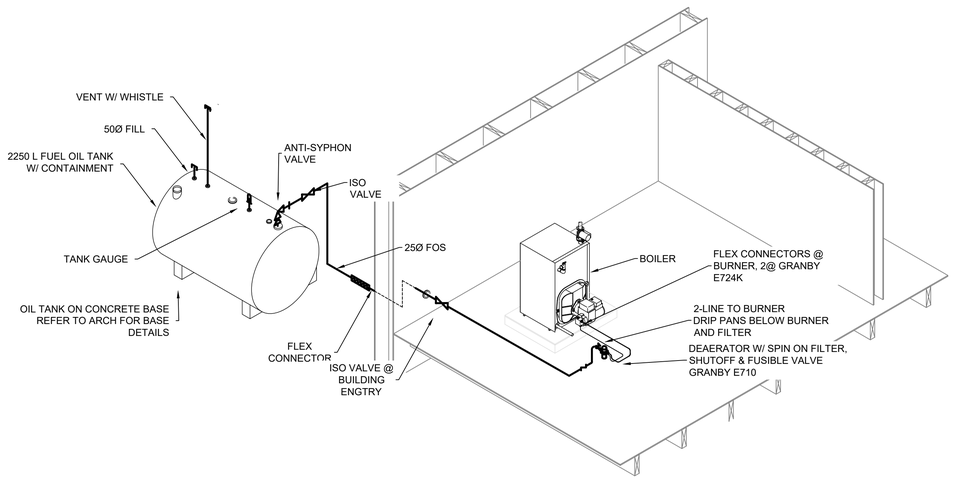
REGISTERED PROFESSIONAL ENGINEER
JON HOWE
NT/NU

CBCL No 22205-00762	Contract No 23-029
Date 06 19/25	Scale 1:10
Designed JH	Drawn JH
Checked JH	Approved DDP
Sheet No 7 of 8	
Drawing No BM 107	

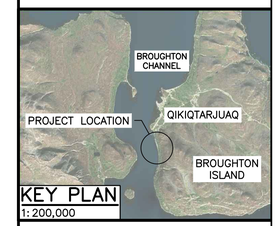
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VENTILATION HOOD DETAILS
NTS



OIL PIPING DETAILS
NTS



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GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

MECHANICAL

OFFICE BUILDING
NOTES AND DETAILS

Prime Consultant

CBCL

Sub Consultant

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jon@thorneng.com

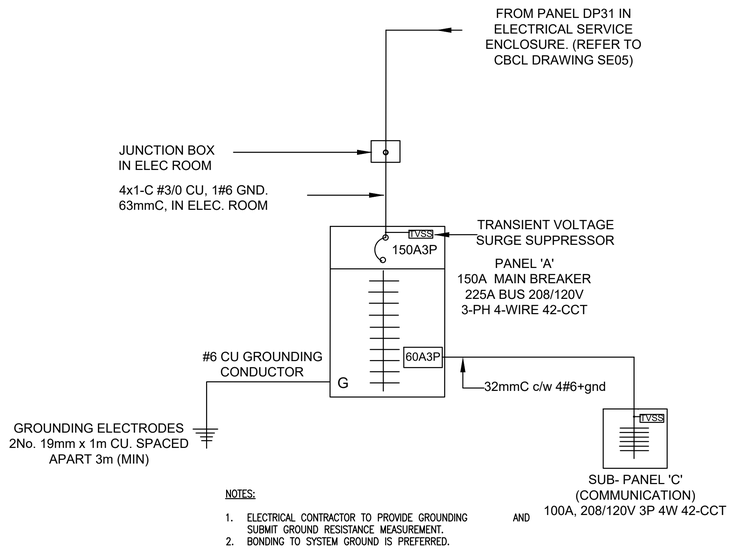
REGISTERED PROFESSIONAL ENGINEER
JON HOWE
NT/NU

CBCL No	Contract No
22205-00762	23-029
Date	Scale
06 19/25	NTS
Designed	Drawn
JH	JH
Checked	Approved
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Sheet No	
8 of 8	
Drawing No	
BM 108	

DRAWING NAME: P:\THORNYSHIT\2023 PROJECTS\23-029 QIKIQTARJUAQ\23-029-M1P.DWG LAYOUT NAME: M107 DETAILS PLOT DATE: October 20. 2025 09:39:40 CAD OPERATOR: HUMANRICE

LEGEND

	EXIT SIGN: LED, STEEL, AIMLIT RPST STANPRO RMS , C/W 30–MINUTE INTERNAL BATTERY CAPACITY, 120V IN 12V OUT SINGLE FACE WITH AUTO–TEST
	EXIT SIGN: LED, STEEL, AIMLIT RPST STANPRO RMS , C/W 30–MINUTE INTERNAL BATTERY CAPACITY, 120V IN 12V OUT DOUBLE FACE WITH AUTO–TEST WITH DIRECTION CHEVRON AS APPLICABLE
	EMERGENCY LIGHTING BATTERY PACK COMBO.120V 72W BATTERY, 12V OUT, DOUBLE HEADS WITH 2x2.5W LED LAMPS, STEEL AIMLIT EBST/EBST12–2L STANPRO SLA/SLA12–2L
	EMERGENCY REMOTE DOUBLE HEADS WITH LED LAMPS 12V, 2x2.5W LED LAMPS AIMLIT "MATCH EBST/EBST12–2L" ; STANPRO "MATCH SLA/SLA12–2L"
	LIGHT CONTROL SWITCH
3	THREE WAY LIGHTING CONTROL SWITCH
OS	LIGHT SWITCH WITH OCCUPANCY SENSOR
OS D	LIGHT SWITCH WITH DIMMABLE OCCUPANCY SENSOR
	WALL MOUNTED DUPLEX RECEPTACLE.
GFI	GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE.
G T	20A T–SLOT GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE.
T	T–SLOT 20A CIRCUIT DUPLEX RECEPTACLE.
WP	OUTDOOR WEATHERTIGHT SERVICE RECEPTACLE WITH IN.USE HEAVY DUTY COVER
V	VEHICLE WEATHERPROOF IPLC RECEPTACLE, 120V, 15A, SPLIT – RECEPTACLE SUITABLE 2 STALLS COMPLETE WITH EXTRA–DUTY IN–USE COVER
	SPECIAL RECEPTACLE ON DEDICATED CIRCUIT
	2–PORT ETHERNET CAT–6 OUTLET DATA / VOICE WITH CABLE TO PATCH PANEL IN EQUIPMENT ROOM
	1.2M (4') X0.194M (7–5/8") DIMMABLE LED FIXTURE 120V 28W, 4000K ; SURFACE–MOUNT ON STEEL BAR OR GYPROCK CEILING: COOPER METALUX WNLED :4–WNLED–LD4–28SL–F–UNV
	CUTOFF LED WALL–MOUNT LUMINAIRE DIE–ALUMINUM WEATHERPROOF HOUSING AND INTEGRAL PHOTOCELL, DARK SKY COMPLIANT, 3000K, 4269 LUMENS. 38W,120V; COOPER LIGHTING: XTOR4B–N.PC1;
	DIMMABLE LED LIGHT COOPER HALO MODEL # SLD612835WH–80CR 4000K, 1200 LUMENS, 6" SURFACE MOUNTED FOR RATED CEILING
	1.2M (4FT) DIMMABLE STRIP LED FIXTURE COMPLETE WITH ELECTRONIC DRIVERS 4000K 2830L 80CRI, 23W, 120V, METALUX 4SLSTP2040DD–120
	SERVICE PANELBOARD
CB	NEW 1.2MX1.2M COMMUNICATION BACKBOARD 3/4" G1S FIRE RATED PLYWOOD.
	MECHANICAL SERVICE ALARM INDICATOR LIGHT
	ELECTRICAL SERVICE ENTRANCE (U/G BY OTHER)



NOTES:

1. ELECTRICAL CONTRACTOR TO PROVIDE GROUNDING SUBMIT GROUND RESISTANCE MEASUREMENT.
2. BONDING TO SYSTEM GROUND IS PREFERRED.

200A 208/120V 3PH 4W SERVICE AND DISTRIBUTION (ADMIN. BUILDING)

LOAD CALCULATIONS

Basic Load
133 SQ.M x 50 w/sq.m = 6,650 W

VEHICLE RECEPTACLES 5 X 650W = 3,200W

MECHANICAL LOADS
6KW (B2) = 6,000 W
5HP x 746W = 3,730 W
MECHANICAL / SPECIAL LOADS
WATER HEATER 3,000W
ADD 25% LARGEST LOAD 2KW 750W
COMMUNICATION EQUIPMENT LOADS 10,000W

TOTAL 33,330W

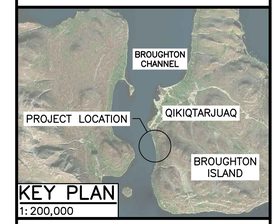
ON 208/120V 3PH 4–WIRE, SERVICE AMPACITY = 93 AMPS
WITH ALLOWANCE FOR FUTURE LOADS

PROVIDE ELECTRICAL SERVICE: 150A , 208/120V, 3 PH, 4–W,
SERVICE PANEL BREAKER: 150A 3–POLE
FOR THE 225A – RATED SERVICE PANEL CAPACITY
PROVIDE SERVICE CONDUCTOR: 4x1–C #3/0 CU

TVSS – SIEMENS BOLTSHIELD BSPD–3–C–100
OR EQUAL
SPECIFICATION
- 208 / 120V, 3–PHASE 4–WIRE
- a. 200A LINE CURRENT (max) b. 60A LINE CURRENT (max)
- AC LINE PROTECTION, 100kA / PHASE
- UL LISTED 1449 2ND EDITION
- ANSI / IEEE C62.41–1988
- C–UL – CERTIFIED
- MODULAR DESIGN
- LED STATUS ALARM INDICATOR

NOTES
1. THE TVSS SHALL BE MOUNTABLE INSIDE THE PANELBOARD
2. ENSURE NEUTRAL TO SYSTEM BONDING
3. INSTALL ACCORDING TO MANUFACTURER'S INSTRUCTIONS

Nunavut



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Revision or Issue

GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

BUILDING ELECTRICAL

LEGEND
SCHEMATICS AND LOAD CALCULATIONS

Prime Consultant

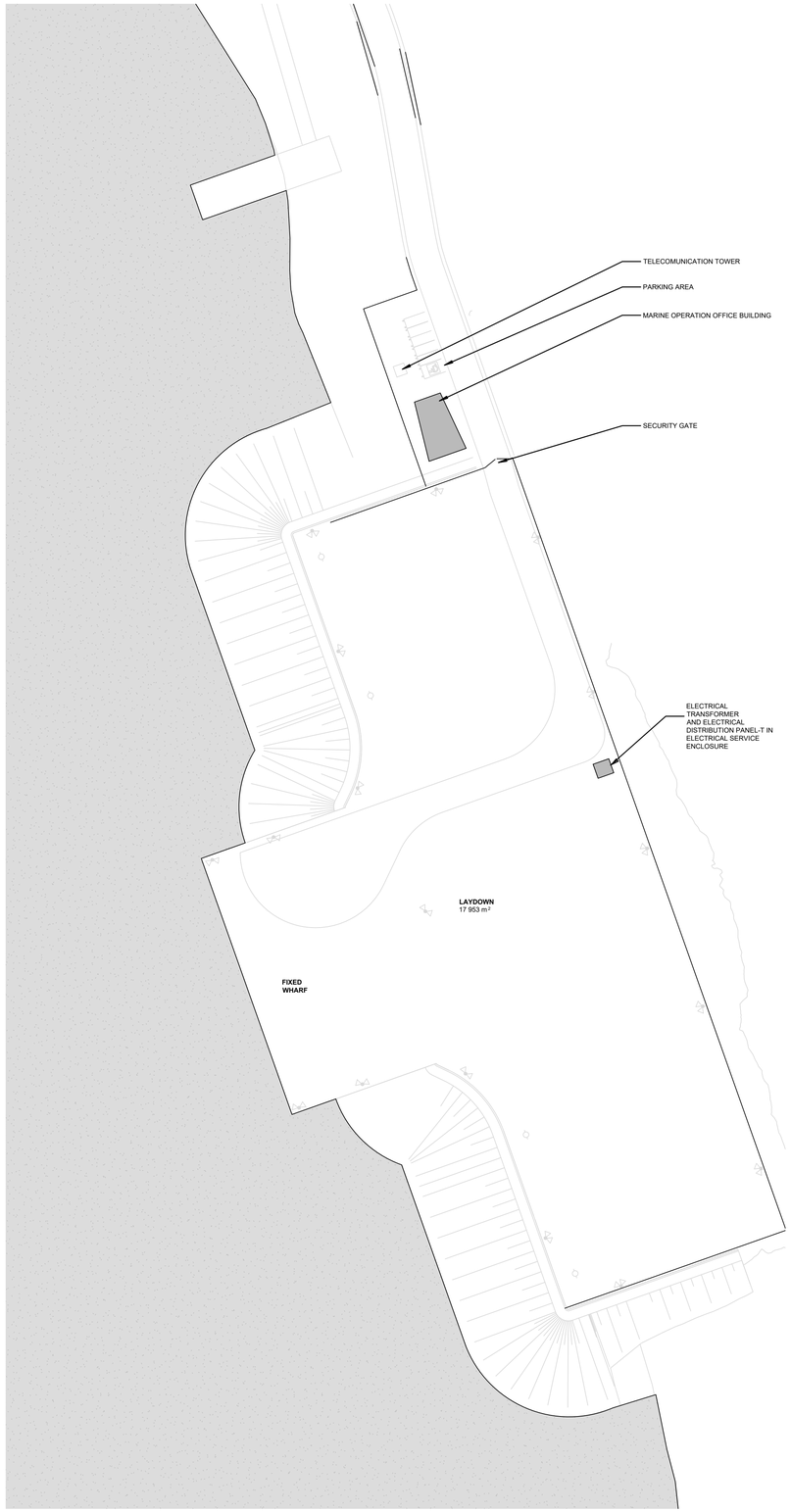
CBCL

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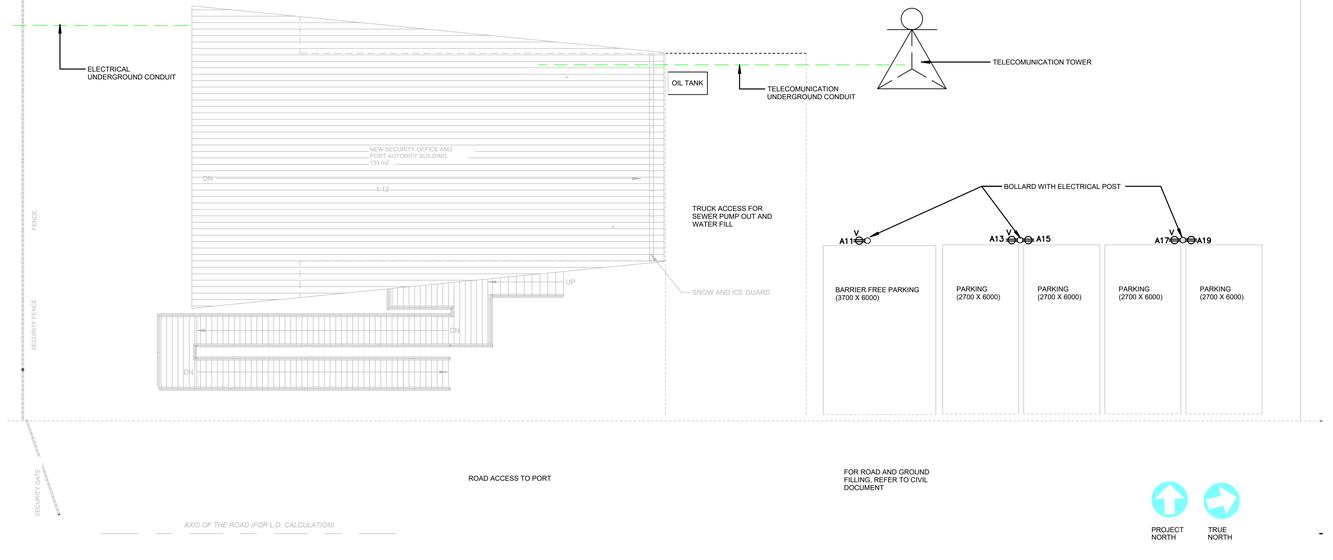
Plan-Eng consulting inc
ELECTRICAL ENGINEERING

REGISTERED PROFESSIONAL ENGINEER NU/NW

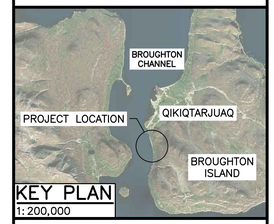
CBCL No 234414	Contract No 22205-00762
Date JUN.2024	Scale AS NOTED
Designed FS	Drawn MC
Checked FS	Approved FS
Sheet No 1 of 4	
Drawing No BE100	



1 SITE_PLAN
1 : 750



2 SITE PLAN
1 : 100



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GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

BUILDING ELECTRICAL

CONTEXT
SITE PLAN
ELECTRICAL LAYOUT

Prime Consultant

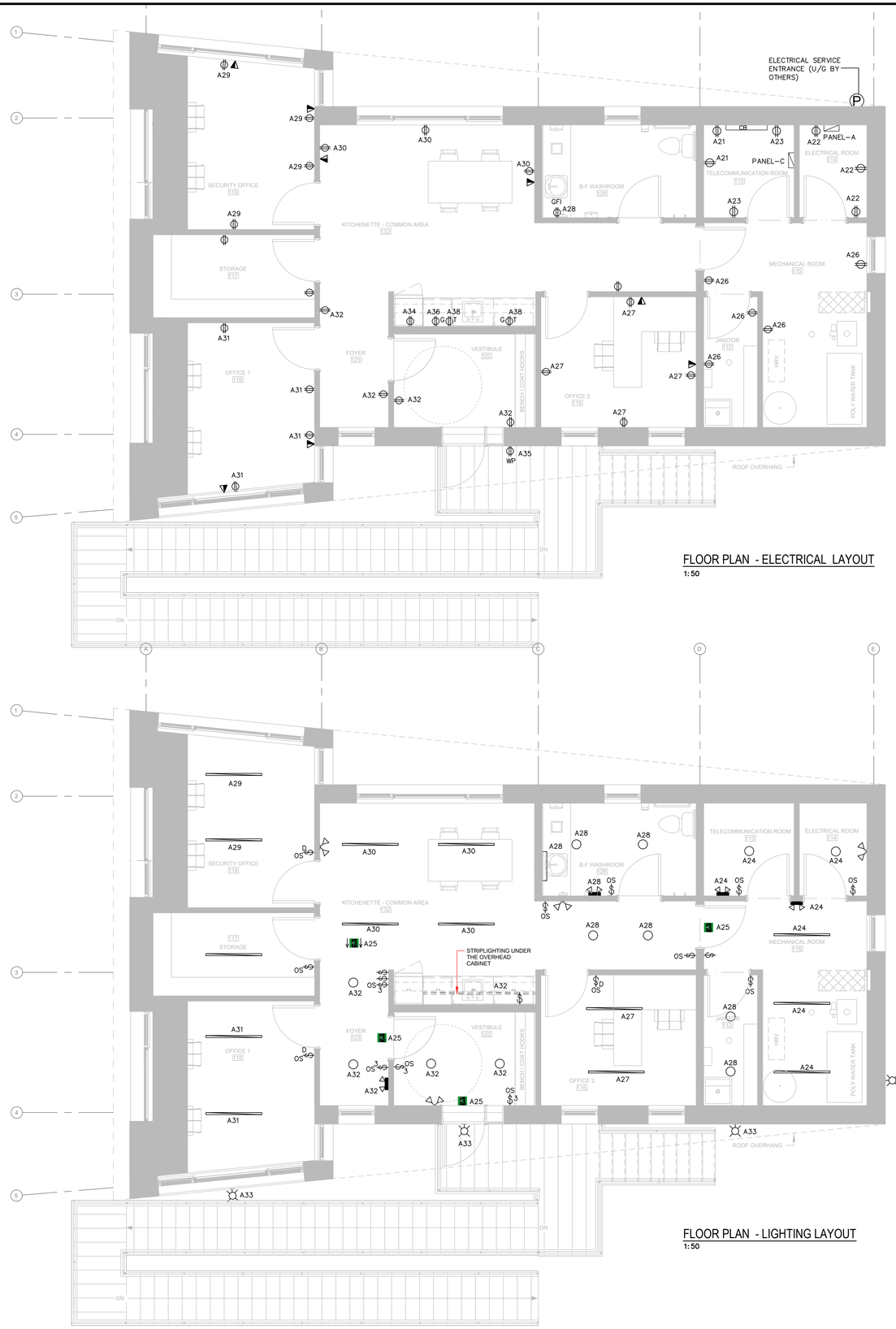
CBCL

Sub Consultant

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ELECTRICAL ENGINEERING

REGISTERED PROFESSIONAL ENGINEER NUNAVUT
SIF SOSOYOS
23OCT2025

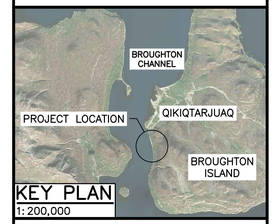
CBCL No 234414	Contract No 22205-00762
Date JUN.2024	Scale AS NOTED
Designed FS	Drawn MC
Checked FS	Approved FS
Sheet No 2 of 4	
Drawing No **BE200**	



FLOOR PLAN - ELECTRICAL LAYOUT
1: 50

FLOOR PLAN - LIGHTING LAYOUT
1: 50

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GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

BUILDING ELECTRICAL

FLOOR PLAN
ELECTRICAL & LIGHTING
LAYOUT

Prime Consultant

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ELECTRICAL ENGINEERING

REGISTERED PROFESSIONAL ENGINEER NU/NWT
BF SUBOYEJO
23OCT2025

CBCL No 234414	Contract No 22205-00762
Date JUN.2024	Scale AS NOTED
Designed FS	Drawn MC
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Sheet No 3 of 4	
Drawing No BE300	

SERVICE PANEL 'A'

PANEL / EQUIPMENT NO: 'A'
VOLTAGE: 120 / 208V 3 PHASE 4 WIRE 60Hz.
MAIN BUS: COPPER, 200A, WITH 150A MAIN BREAKER
MAX INTERUPTING CAPACITY: 22KA
LOCATION: ELECT RM

REFERENCE LAYOUT DRAWINGS:
REFERENCE SINGLE LINE DWG:
SUPPLIED FROM: DISTRIBUTION PANEL DP.31
FEEDER CB/FUSE SIZE: 150A
SERVICE CABLE SIZE AWG/KCMIL: 4x1-C #3/0 CU ON BE200
PANEL MAKE AND TYPE: REFER TO SPECIFICATIONS

BREAKER CKT NO	BREAKER RATING AMPS	BREAKER POLES	CONDUCTOR	SERVICE	LOAD – WATTS A	LOAD – WATTS B	LOAD – WATTS C	SERVICE	CONDUCTOR	BREAKER POLES	BREAKER RATING AMPS	BREAKER CKT NO
01	20	2	2C#12	BOILER B2 (MECH 115)				BOILER B1 (MECH 115)	2C#12	1	15	02
03								BOILER PUMP P1 (MECH 115)	2C#12	1	15	04
05				SPARE				CUH1 VESTIBULE HEATER (VESTIBULE 1)	2C#12	1	15	06
07	15	1	2C#12	BOILER PUMP P2 (MECH 115)				P4 DW PRESSURE SYSTEM (MECH 115)	4C#12	3	15	08
09	15	1	2C#12	HEATING PANEL HP1 (MECH 115)								10
11	15	1	2C#12	VEHICLE RECEPTACLE								12
13	15	1	2C#12	VEHICLE RECEPTACLE				P3 GLYCOL PUMP (MECH 115)	2C#12	1	15	14
15	15	1	2C#12	VEHICLE RECEPTACLE				HRV1 VENTILATION UNIT (MECH 115)	2C#12	1	15	16
17	15	1	2C#12	VEHICLE RECEPTACLE				HRV1 VENTILATION UNIT (MECH 115)	2C#12	1	15	18
19	15	1	2C#12	VEHICLE RECEPTACLE				VTR ROOF JACK HEAT TRACE (ROOF)	2C#12	1	15	20
21	20	1	2C#12	TELEPHONE RECEPTACLE				ELECTRICAL ROOM RECEPTACLES	2C#12	1	15	22
23	20	1	2C#12	TELEPHONE RECEPTACLE				ELECTRICAL/TELEPHONE/MECHANICAL ROOM LIGHTING	2C#12	1	15	24
25	15	1	2C#12	EXIT LIGHTING				MECHANICAL/JANITOR ROOM RECEPTACLES	2C#12	1	15	26
27	15	1	2C#12	OFFICE 2 RECEPTACLES/LIGHTS				B.F. WASHROOM ROOM GFI RECEPTACLE/LIGHTS	2C#12	1	15	28
29	15	1	2C#12	SECURITY OFFICE 119 RECEPTACLES/LIGHTS				KITCHENETTE COMMON AREA 132 RECEPTACLES/LIGHTS	2C#12	1	15	30
31	15	1	2C#12	OFFICE 1 RECEPTACLES/LIGHTS				VESTIBULE 122 & FOYER 123 RECEPTACLES/LIGHTS	2C#12	1	15	32
33	15	1	2C#12	EXTERIOR LIGHTS				FRIDGE	2C#12	1	15	34
35	15	1	2C#12	EXTERIOR RECEPTACLE				MICROWAVE	2C#12	1	15	36
37	60	3	4C#6	PANEL-C				20A T-SLOT GFI DUPLEX RECEPTACLE.	2C#12	1	15	38
39												40
41												42

PANEL 'C'

PANEL / EQUIPMENT NO: 'C'
VOLTAGE: 120 / 208V 3 PHASE 4 WIRE 60Hz.
MAIN BUS: COPPER, 100A, WITH 60A MAIN BREAKER
MAX INTERUPTING CAPACITY: 22KA
LOCATION: COMMUNICATION RM

REFERENCE LAYOUT DRAWINGS:
REFERENCE SINGLE LINE DWG:
SUPPLIED FROM: PNL-A
SUB-FEEDER CB/FUSE SIZE: 60A 3P
SUB-FEED CABLE SIZE AWG/KCMIL: 4C#6 + GND
PANEL MAKE AND TYPE: REFER TO SPECIFICATIONS

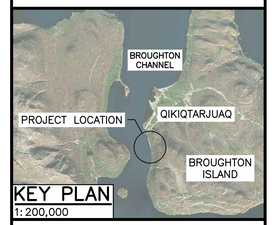
BREAKER CKT NO	BREAKER RATING AMPS	BREAKER POLES	CONDUCTOR	SERVICE	LOAD – WATTS A	LOAD – WATTS B	SERVICE	CONDUCTOR	BREAKER POLES	BREAKER RATING AMPS	BREAKER CKT NO
01	15	1									02
03	15	1									04
05	15	1									06
07	15	1									08
09	15	1									10
11	15	1									12
13	15	1									14
15	15	1									16
17	15	1									18
19	15	1									20
21	15	1									22
23	15	1									24

Motor & Control Data

Project: SECURITY OFFICE
QIKIQTARJUAK, NU
Project No.: 23-029
Submission: 2
Date: 2024-11-22
Design: JH
Checked:

Unit No.	Description	Location	Model	Motor hp	Volt	Ph	Hz	Control	Pilot Dev.	Supply Starter	Supply Pilot.	Supply Disc.	Comments, Interlocks & Controls	PANEL CCT.#	BR.CCT.CONDUCT
B1	BOILER	MECH 115	WEIL MCLAIN WGO3-XX	1/6 HP	120	1	60	on/off	TC	N/A	M	E		A2	2C#12
P1	BOILER PUMP	MECH 115	GRUNDFOS ALPHA 18-55FC	1/16 HP	120	1	60	on/off	TC, I	N/A	M	E	B1	A4	2C#12
B2	BOILER	MECH 115	THERMOLEC B-6TMB	6 KW	208	3	60	on/off	TC	N/A	M	E		A1/3	2C#12
P2	BOILER PUMP	MECH 115	GRUNDFOS UPS 15-58FC	1/16 HP	120	1	60	on/off	TC, I	N/A	M	E	B2	A7	2C#12
HP1	HEATING PANEL	MECH 115	HP CONTROLS CFI-642	7@ 1/16	120	1	60	on/off	TC, I	N/A	M	N/A		A9	2C#12
CUH1	VESTIBULE HEATER	VESTIBULE 1	MYSON WHISPA III	1/25 HP	120	1	60	on/off	TC	N/A	M	E	(OPTIONAL)	A6	2C#12
P3	GLYCOL PUMP	MECH 115	AXIOM DMF150	1/25 HP	120	1	60	on/off	PC	N/A	M	N/A	15A RECEPTACLE	A14	2C#12
P4	DW PRESSURE SYSTEM	MECH 115	GRUNDFOS SCALA2	1 HP	208	1	60	on/off	PC	N/A	M	E	SEWAGE HIGH LEVEL	A8/10/12	2C#12
HRV1	VENTILATION UNIT	MECH 115	NU-AIR NU500HRV	2@ 1/3	120	1	60	on/off	C	N/A	M	N/A	15A RECEPTACLE	A16	2C#12
VTR'	ROOF JACK HEAT TRACE	ROOF	ARCTIC VENT ACV-120	300 W	120	1	60	on/off	HS, C	N/A	M	E	(OPTIONAL)	A18 A20	2C#12 2C#12

Control		Pilot Device											
On/Off - c/w pilot light		LC-level contro	HS-handswitch	MC-humidity control		C-timeclock							
H.O.A.		TC-temp contro	I-Interlock	PC-pressure control									



KEY PLAN
1: 200,000

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Revision or Issue

GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

BUILDING ELECTRICAL

PANEL SCHEDULES AND MECHANICAL SCHEDULE

Prime Consultant
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Sub Consultant
Plan-Eng consulting inc
ELECTRICAL ENGINEERING

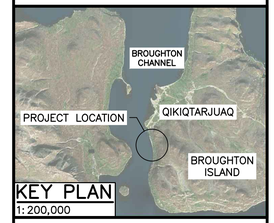
REGISTERED PROFESSIONAL ENGINEER NU/NT
SF SUBOVLO
2025

CBCL No 234414	Contract No 22205-00762
Date JUN.2024	Scale AS NOTED
Designed FS	Drawn MC
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Sheet No 4 of 4	
Drawing No BE400	

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
	VEHICLE ENGINE BLOCK HEATER RECEPTACLE
	REEFER CONTAINER INTERLOCKED
	ELECTRICAL RECEPTACLE SHROUD
P	AT GRADE PULL BOX (VOLTAGE AS INDICATED)
	BREAKER
	GENERATOR
XXXA XXX/XXXV XP,XW 'XXX' XXCKTS	PANELBOARD
	MISCELLANEOUS ELECTRICAL EQUIPMENT (AS INDICATED)
	TRANSFORMER (TYPE AS INDICATED)
	COMBINATION CONTROLLER
	GROUND
--------	GENERAL ROUTING OF UNDERGROUND ELECTRICAL SERVICES. REPRESENTS MULTIPLE CONDUITS.
UP	UTILITY POLE
	POLE MOUNTED FLOODLIGHT c/w PULL BOXES FOR EACH SYSTEM LOCATED AT SITE LIGHTING BASES
	SITE LIGHT
	NAVIGATION LANTERN
PC	PHOTOCELL

Nunavut



KEY PLAN
1: 200,000

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Revision or Issue

GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

ELECTRICAL

LEGEND AND NOTES

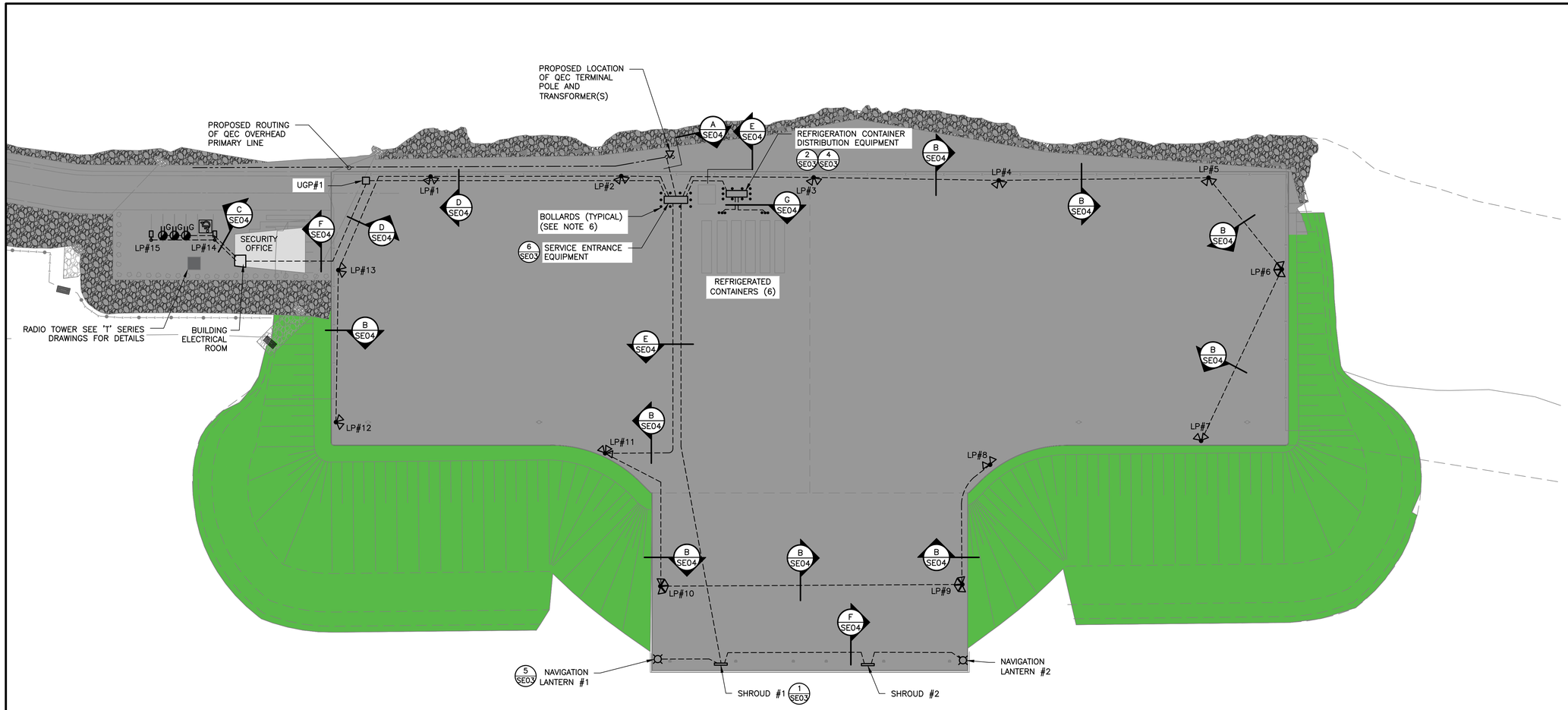
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REGISTERED PROFESSIONAL ENGINEER
J.A. SMITH
LICENSEE
Oct. 23, 2025
NT/NU

CBCL No	Contract No
234414	22205-00762
Date: MAR. 2025	Scale: AS NOTED
Designed: SW	Drawn: SDC/MM
Checked: JAS	Approved: DDP
Sheet No: 1 of 7	
Drawing No: **SE01**	



1 SE01 PLAN– SITE ELECTRICAL

1:500

0 10.0 20.0 30.0 40.0 50.0m

1:500

NOTES:

1. UNDERGROUND DUCTBANK RUNS ARE SHOWN DIAGRAMMATICLY.
2. REFER TO CIVIL AND MARINE DRAWINGS FOR EXACT LOCATIONS OF SITE ELECTRICAL INFRASTRUCTURE.
3. UNLESS OTHERWISE INDICATED, DO NOT ROUTE ELECTRICAL SERVICES THROUGH AREAS DESIGNATED FOR FUTURE DEVELOPMENT. SEE CIVIL DRAWINGS.
4. MAINTAIN THE FOLLOWING MINIMUM CLEARANCES FROM PROPERTY BOUNDARIES OR FACES OF WHARF:
   - 4.1. 3000mm FOR CONCRETE PADS FOR SERVICE ENTRANCE ENCLOSURE AND REFRIGERATION CONTAINER DISTRIBUTION EQUIPMENT
   - 4.2. 1000mm FOR UNDERGROUND PULL PITS LIGHTING POLES.
5. REFER TO 'BE' SERIES DRAWINGS FOR BUILDING ELECTRICAL DETAILS.
6. INSTALL TRAFFIC BOLLARDS AROUND EQUIPMENT (SEE STRUCTURAL). LOCATE BOLLARDS 1000mm FROM EQUIPMENT AND SPACED AT A MAXIMUM 1300mm APART UNLESS OTHERWISE NOTED.

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GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

ELECTRICAL

ELECTRICAL SITE PLAN

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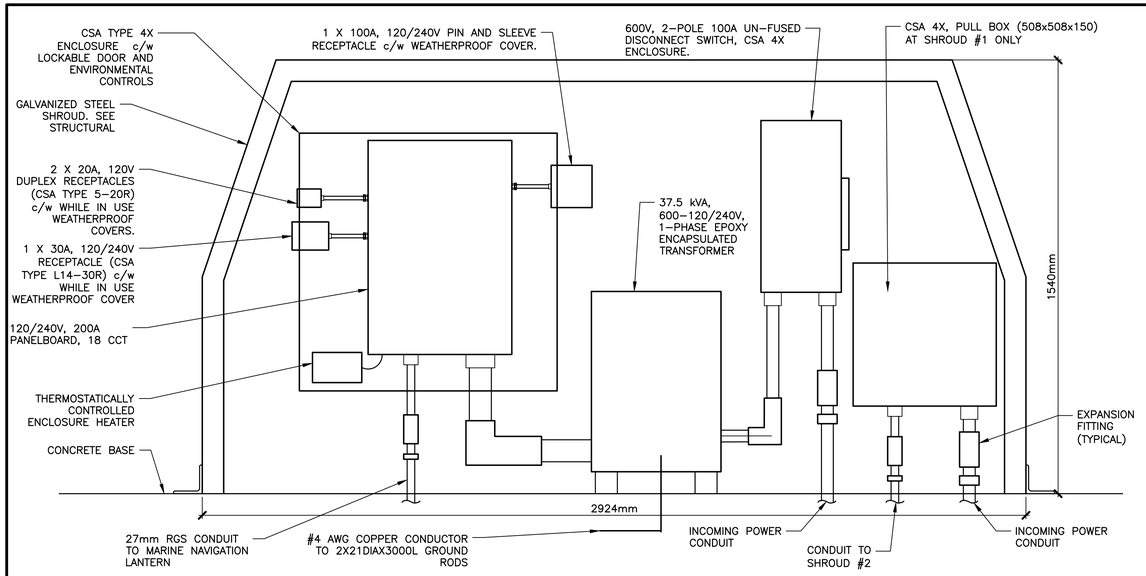
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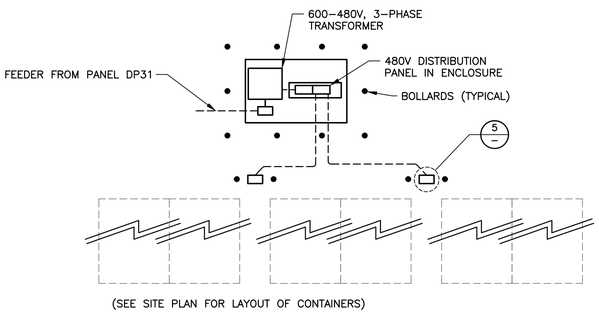
CBCL No	Contract No
234414	22205-00762
Date: MAR. 2025	Scale: AS NOTED
Designed: SW	Drawn: SDC/MM
Checked: JAS	Approved: DDP
Sheet No: 2 of 7	
Drawing No: **SE02**	

DRAWING NAME: Y:\HALIFAX\DATA\PROJECTS\2023\234414.00 GOV OF NU A&E MARINE INFRASTRUCTURE\44 CAD\05 ELEC\234414.00 - SE02.DWG LAYOUT NAME: SE02 PLOT DATE: October 24, 2025 8:05:49 AM CAD OPERATOR: JMACINTOSH

CBCL-610x914 TITLE SHEET (ARCH D)

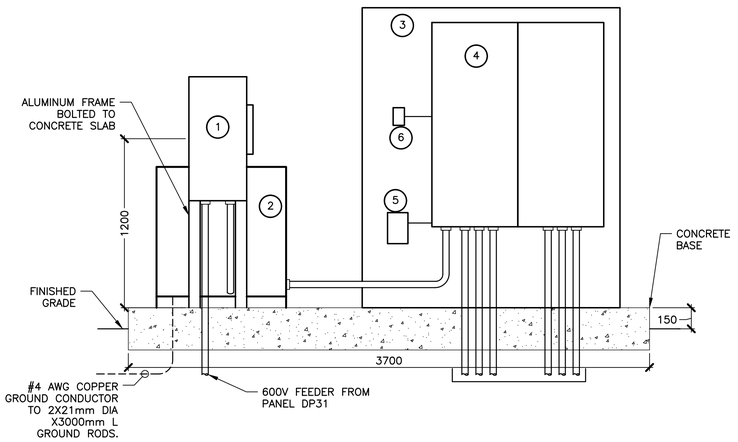


1 SE03 **DETAIL—SHORE POWER SHROUD** 1:10
(SHROUD #1 SHOWN, SHROUD #2 SIMILAR EXCEPT AS NOTED)

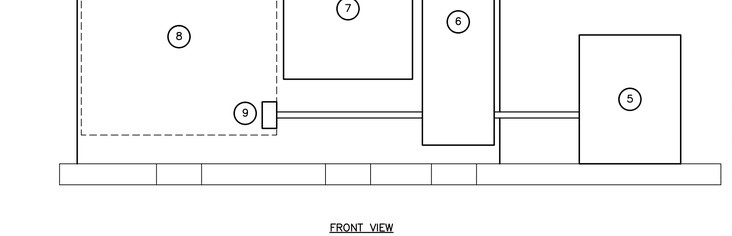


2 SE03 **DETAIL—REFRIGERATED CONTAINER POWER DISTRIBUTION LAYOUT** N.T.S.

1. EQUIPMENT LEGEND 600V, 200A, 3-PHASE UNFUSED DISCONNECT SWITCH, CSA 4X ENCLOSURE.
2. 600V-277/480V, 150kVA, 3-PHASE EPOXY ENCAPSULATED DRY TYPE TRANSFORMER. CSA 4X ENCLOSURE.
3. STAINLESS STEEL, FREE STANDING CSA 3R ELECTRICAL ENCLOSURE. NOMINAL DIMENSIONS:1830mm X 1830mm X 460 mm.
4. 2 X 400A 277/480V, 3-PHASE, 4-WIRE PANELBOARDS. NOMINAL DIMENSIONS:610mm X 1450mm X 200mm. EACH PANEL WITH 13X 30A, 3-POLE, 1 X15A, 1-POLE, 1X 20A, 1-POLE BREAKERS.
5. 120V, 800W HEATER C/W INTEGRATED BLOWER AND THERMOSTATIC CONTROLS.
6. 120V, 20A GFCI RECEPTACLE.



3 SE03 **DETAIL—REFRIGERATED CONTAINER POWER CENTRE DETAIL** 1:20



PLAN VIEW

REAR VIEW

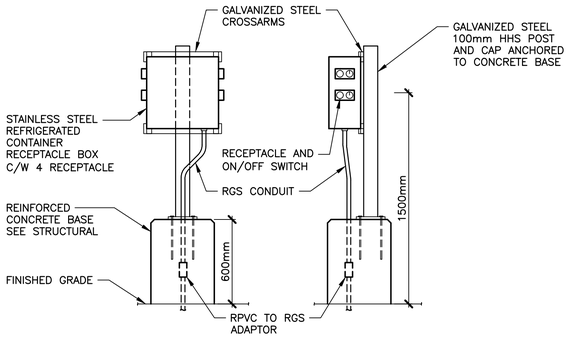
FRONT VIEW

NOTES:

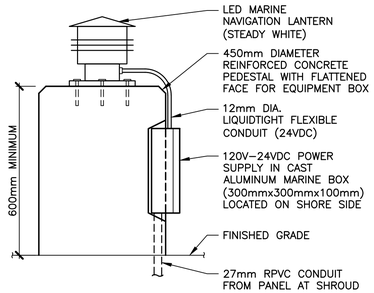
1. NOT ALL REQUIRED CONDUITS ARE SHOWN. SEE SINGLE LINE DIAGRAM AND TRENCH SECTIONS FOR DETAILS.
2. UNLESS OTHERWISE INDICATED, ALL BURIED RPVC CONDUITS TRANSITION TO RGS PRIOR TO START OF BEND TO RISE ABOVE GRADE IN UNHEATED LOCATIONS. DO NOT INSTALL RPVC CONDUITS ABOVE GRADE IN EXTERIOR OR UNHEATED SPACES.

EQUIPMENT LEGEND – SERVICE ENCLOSURE

1. 400A, 600V, 3-PHASE, 4-WIRE SERVICE ENTRANCE RATED ENCLOSED BREAKER.
2. UTILITY METERING CABINET. PTs AND CTs PROVIDED BY UTILITY, INSTALLED BY CONTRACTOR.
3. 400A, 600V, 3-PHASE, 4-WIRE, SOLID NEUTRAL, AUTOMATIC TRANSFER SWITCH.
4. 400 A, 347/600 V, 3-PHASE PANEL DP31.
5. 112.5 kVA, 3-PHASE, 600-120/208 V, K-13, TRANSFORMER WITH 3R ENCLOSURE.
6. 400 A, 120/208 V, 3-PHASE PANEL DP11.
7. SITE LIGHTING CONTROL EQUIPMENT.
8. SPACE FOR FUTURE EQUIPMENT .
9. 120V, 800W HEATER c/w INTEGRATED BLOWER AND THERMOSTATIC CONTROLS .
10. 120V, GFCI RECEPTACLE.
11. 120V LINEAR LED STRIP LIGHT AND SWITCH
12. UTILITY METER SOCKET (13 JAW) c/w WIRE GUARD. METER BY UTILITY.
13. STAINLESS-STEEL, FREE STANDING CSA 3R ELECTRICAL ENCLOSURES INSTALLED BACK-TO-BACK. NOMINAL OVERALL DIMENSIONS: 3000mm L x 1000mm X 2000mm H. UTILITY



4 SE03 **DETAIL—REFRIGERATED CONTAINER RECEPTACLE** 1:20



5 SE03 **DETAIL—NAVIGATION LANTERN** 1:10

6 SE03 **DETAIL—SERVICE ENTRANCE EQUIPMENT** 1:20



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Signature
Date 2025-10-24
PERMIT NUMBER: P1441
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No.	Description	Date	By
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Revision or Issue

GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

ELECTRICAL

PLAN DETAILS SHEET 1

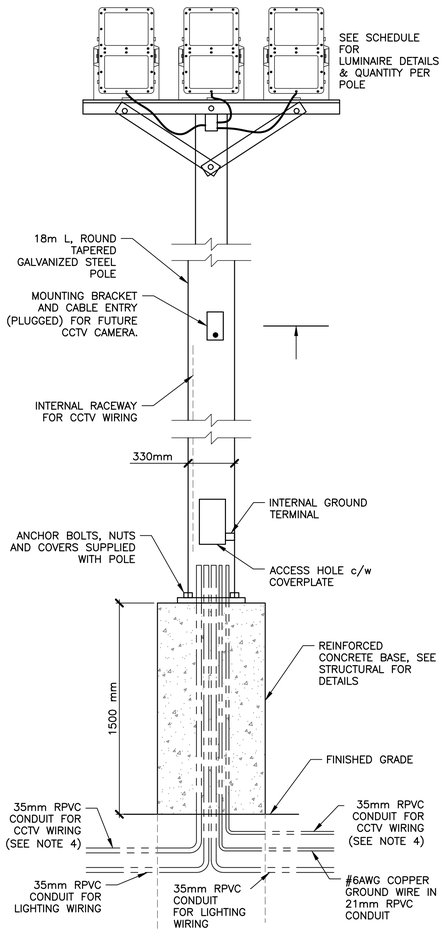
Prime Consultant

CBCL

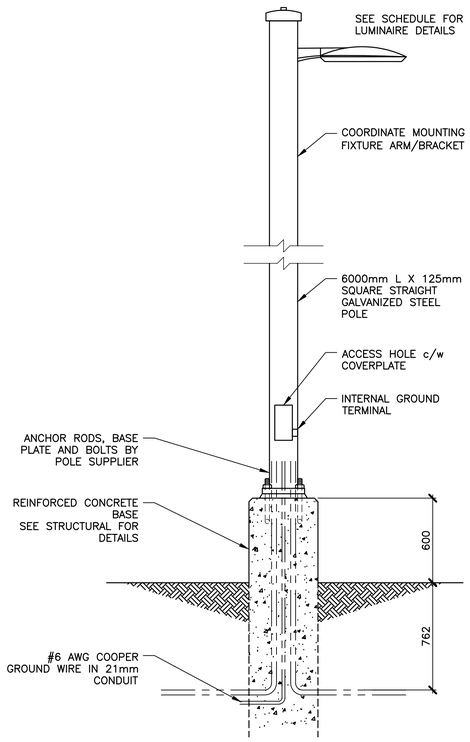
Sub Consultant

REGISTERED PROFESSIONAL ENGINEER
J.A. SMITH
LICENSEE
Oct. 23, 2025
NT/NU

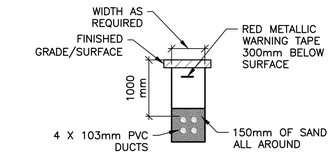
CBCL No 234414	Contract No 22205-00762
Date MAR. 2025	Scale AS NOTED
Designed SW	Drawn SDC/MM
Checked JAS	Approved DDP
Sheet No 3 of 7	
Drawing No **SE03**	



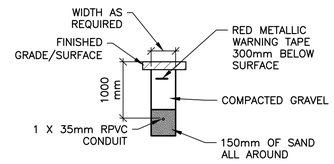
1 ES04 **DETAIL—SITE FLOODLIGHTING POLE**
N.T.S.



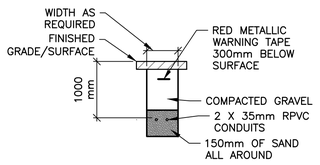
2 ES04 **DETAIL—PARKING AREA LIGHTING POLE**
N.T.S.



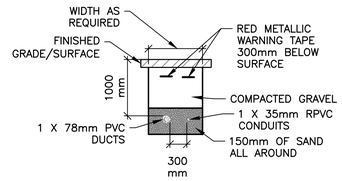
A ES04 **SECTION—ELECTRICAL TRENCH**
N.T.S.



B ES04 **SECTION—ELECTRICAL TRENCH**
N.T.S.



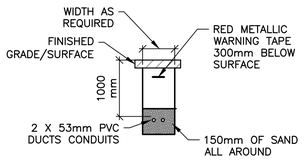
C ES04 **SECTION—ELECTRICAL TRENCH**
N.T.S.



D ES04 **SECTION—ELECTRICAL TRENCH**
N.T.S.

E ES04 **SECTION—ELECTRICAL TRENCH**
N.T.S.

F ES04 **SECTION—ELECTRICAL TRENCH**
N.T.S.

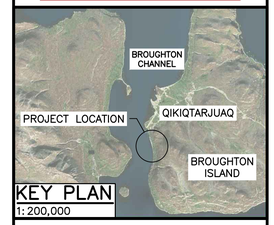


G ES04 **SECTION—ELECTRICAL TRENCH**
N.T.S.

NOTES:

1. SPACE CONDUITS 190mm CENTRE TO CENTRE UNLESS OTHERWISE INDICATED.
2. DEPTH OF BURIAL IS TO TOP OF CONDUIT OR CABLE.
3. REFER TO CIVIL DRAWINGS FOR FINISHED GRADE ELEVATIONS, SURFACES AND GRAVEL TYPES.
4. CAP CCTV CONDUITS 1500mm BEYOND POLE BASE FOR FUTURE USE.

Nunavut



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PERMIT NUMBER: P1441
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Revision or Issue

GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

ELECTRICAL

PLAN DETAILS SHEET 2

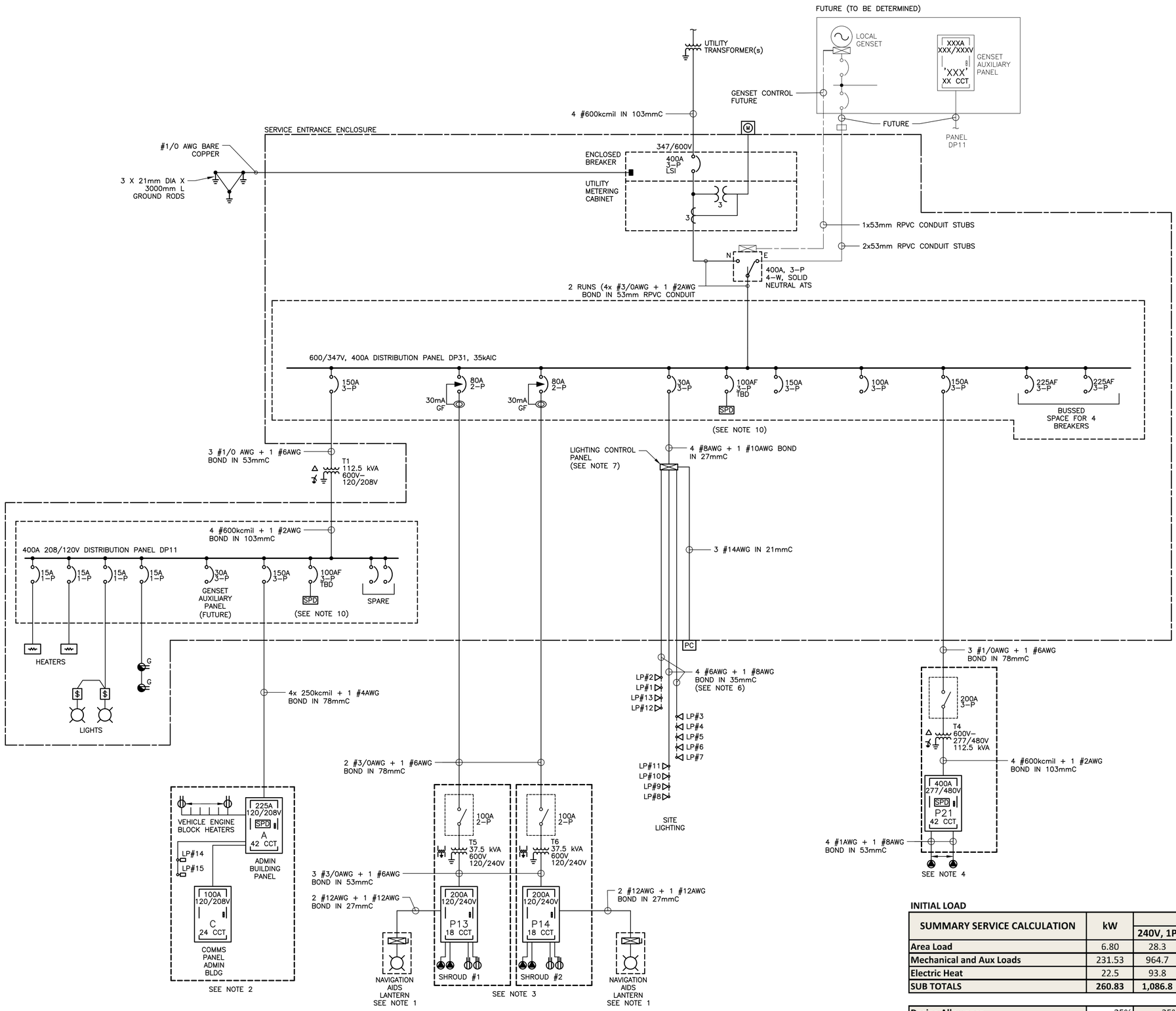
Prime Consultant

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Sub Consultant

REGISTERED PROFESSIONAL ENGINEER
J.A. SMITH
LICENSEE
Oct. 23, 2025
NT/NU

CBCL No	Contract No
234414	2205-00762
Date	Scale
MAR. 2025	AS NOTED
Designed	Drawn
SW	SDC/MM
Checked	Approved
JAS	DDP
Sheet No	
4 of 7	
Drawing No	
SE04	



1 DETAIL— ELECTRICAL SINGLE LINE DIAGRAM
N.T.S

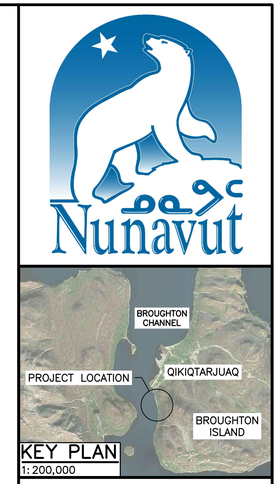
NOTES:

1. STEADY WHITE LIGHT. FIXTURE AND INSTALLATION TO MEET TRANSPORT CANADA REQUIREMENTS. .
2. SEE BUILDING ELECTRICAL DRAWINGS FOR DETAILS.
3. SEE SHROUD ELECTRICAL DRAWINGS FOR DETAILS AND RECEPTACLES.
4. SEE REFRIGERATED CONTAINER DISTRIBUTION LAYOUT AND POWER CENTER ELECTRICAL DRAWINGS FOR DETAILS.
5. SEE SCHEDULES FOR PANELBOARD DETAILS.
6. RUN ALL CIRCUIT CONDUCTORS TO LAST POLE ON CONDUIT RUN.
7. SEE LIGHTING CONTROLS DIAGRAM FOR DETAILS.
8. MINIMUM CIRCUIT CONDUCTOR SIZE #12AWG UNLESS OTHERWISE INDICATED.
9. MINIMUM CONDUIT SIZE 21mm UNLESS OTHERWISE NOTED.
10. SPD BREAKER SIZED BY MANUFACTURER.

PANEL DESIGNATIONS
DP 3 1
- PANEL #
- VOLTAGE TO GROUND 1 = 120V 2 = 277V 3 = 347V
- DP–DISTRIBUTION PANEL. P– BRANCH CIRCUIT PANEL SE–SERVICE ENTRANCE PANEL/SWITCHBOARD

INITIAL LOAD

SUMMARY SERVICE CALCULATION	kW	Amperage			
		240V, 1P	208V, 1P	208V, 3P	600V, 3P
Area Load	6.80	28.3	32.7	18.9	6.5
Mechanical and Aux Loads	231.53	964.7	1,113.1	642.7	222.8
Electric Heat	22.5	93.8	108.2	62.5	21.7
SUB TOTALS	260.83	1,086.8	1,254.0	724.0	251.0
Design Allowance	35%	35%	35%	35%	35%
	91.29	380.38	438.90	253.41	87.85
TOTAL	352.13	1,467.19	1,692.91	977.43	338.84



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QIKIQTARJUAQ MARINE INFRASTRUCTURE

ELECTRICAL

SINGLE LINE DIAGRAM

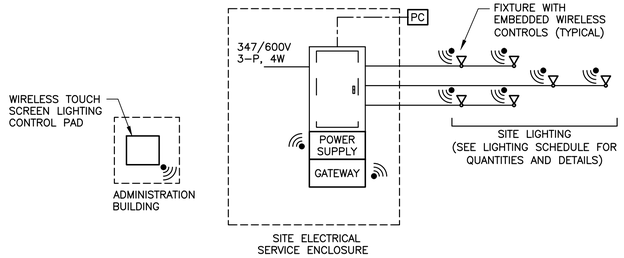
Prime Consultant

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Sub Consultant

REGISTERED PROFESSIONAL ENGINEER J.A. SMITH LICENSEE Oct. 23, 2025 NT/NU

CBCL No 234414	Contract No 22205-00762
Date MAR. 2025	Scale AS NOTED
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Checked JAS	Approved DDP
Sheet No 5 of 7	
Drawing No SE05	



1 SE06 **DETAIL—SITE LIGHTING CONTROLS**
N.T.S

Power: 600/347 V 3 ø 4 W — PANEL **DP31** — SYM. IC.: 35000 A
OF CKTS.: 42 — LOCATION SERVICE ENTRANCE — MAINS: 400 A
INCOMING: — MAIN BKR: MLO A

Remarks	Designation	CKT #	Watts	BKR	PHASE a	PHASE b	PHASE c	BKR	Watts	CKT#	Designation	Remarks
	TRANSFORMER T1 112.5 kVA (DP11)	1	34000	150A	X			TBD		2	SPD	2
	TRANSFORMER T1 112.5 Kva (DP11)	3	34000	3-P		X		TBD		4	SPD	2
	TRANSFORMER T1 112.5 kVA (DP11)	5	34000	---			X	TBD		6	SPD	2
1	SHROUD #1	7	18000	80A	X					8	SPACE	
1	SHROUD #1	9	18000	2-P		X				10	SPACE	
1	SHROUD #2	11	18000	80A			X			12	SPACE	
1	SHROUD #2	13	18000	2-P	X					14	SPACE	
	SITE LIGHTING	15	9000	40A		X				16	SPACE	
	SITE LIGHTING	17	9000	3-P			X			18	SPACE	
	SITE LIGHTING	19	9000	---	X					20	SPACE	
	TRANSFORMER T4 150kVA (P21)	21	3000			X				22	SPACE	
	TRANSFORMER T4 150kVA (P21)	23	3000				X			24	SPACE	
	TRANSFORMER T4 150kVA (P21)	25	3000		X					26	SPACE	
	SPARE	27		150		X				28	SPACE	
	SPARE	29		3-P			X			30	SPACE	
	SPARE	31		---	X					32	SPACE	
	SPARE	33		100		X				34	SPACE	
	SPARE	35		3-P			X			36	SPACE	
	SPARE	37		---	X					38	SPACE	
		39				X				40	SPACE	
		41					X			42	SPACE	

FEEDER: — SOURCE:

Remarks:
1 30mA GROUND FAULT BREAKER
2 SPD BREAKER RATING DETERMINED BY MANUFACTURER

Phase A Total	82000	W	236.3 A
Phase B Total	64000	W	184.4 A
Phase C Total	64000	W	184.4 A
TOTAL	210000	W	202.3 A

Power: 277/480 V 3 ø 4 W — PANEL **P21** — SYM. IC.: 18k A
OF CKTS.: 42 — LOCATION REFRIG'D CONTAINERS — MAINS: 400 A
INCOMING: — MAIN BKR: MLO A

Remarks	Designation	CKT #	Watts	BKR	PHASE a	PHASE b	PHASE c	BKR	Watts	CKT#	Designation	Remarks
	REFRIGERATED CONTAINER RECEPTACLES BOX	1	20000	90A	X					2	SPACE	
	REFRIGERATED CONTAINER RECEPTACLES BOX	3	20000	3-P		X				4	SPACE	
	REFRIGERATED CONTAINER RECEPTACLES BOX	5	20000	---			X			6	SPACE	
	REFRIGERATED CONTAINER RECEPTACLES BOX	7	20000	90A	X					8	SPACE	
	REFRIGERATED CONTAINER RECEPTACLES BOX	9	20000	3-P		X				10	SPACE	
	REFRIGERATED CONTAINER RECEPTACLES BOX	11	20000	---			X			12	SPACE	
	SPARE	13		90A	X					14	SPACE	
	SPARE	15		3-P		X				16	SPACE	
	SPARE	17		---			X			18	SPACE	
	SPACE	19			X					20	SPACE	
	SPACE	21				X				22	SPACE	
	SPACE	23					X			24	SPACE	
	SPACE	25			X					26	SPACE	
	SPACE	27				X				28	SPACE	
	SPACE	29					X			30	SPACE	
	SPACE	31			X					32	SPACE	
	SPACE	33				X				34	SPACE	
	SPACE	35					X			36	SPACE	
	SPACE	37			X					38	SPACE	
	CABINET HEATER	39	800	15A	X					40	SPACE	
1	CABINET RECEPTACLE	41	120	20A			X			42	SPACE	

FEEDER: — SOURCE:

Remarks:

Phase A Total	40000	W	115.3 A
Phase B Total	40800	W	117.6 A
Phase C Total	40120	W	115.6 A
TOTAL	120920	W	A

Power: 120/240 V 1 ø 3 W — PANEL **P13** — SYM. IC.: 18k A
OF CKTS.: 18 — LOCATION SHROUD #1 — MAINS: 200 A
INCOMING: — MAIN BKR: 200 A

Remarks	Designation	CKT #	Watts	BKR	PHASE a	PHASE b	BKR	Watts	CKT#	Designation	Remarks
1	100A RECEPTACLE	1	4000	100A	X				2	SPACE	
1	100A RECEPTACLE	3	4000	2-P		X			4	SPACE	
1	30A RECEPTACLE	5	1200	30	X				6	SPACE	
1	30A RECEPTACLE	7	1200	2-P		X			8	SPACE	
2	20A RECEPTACLE	9	120	20A	X				10	SPACE	
2	20A RECEPTACLE	11	120	20A		X			12	SPACE	
2	SPARE	13		20A	X				14	SPACE	
2	SPARE	15		20A		X	15A	200	16	NAVIGATION LANTERN #1	3
2	SPARE	17		15A	X		15A	800	18	CABINET HEATER	

FEEDER: — SOURCE:

Remarks:
1 30 mA GROUND FAULT BREAKER
2 5 mA GROUND FAULT BREAKER
3 PROVIDE LOCK-ON DEVICE

Phase A Total	6120	W	17.6 A
Phase B Total	5520	W	15.9 A
TOTAL	11640	W	48.5 A

Power: 120/240 V 1 ø 3 W — PANEL **P14** — SYM. IC.: 18k A
OF CKTS.: 18 — LOCATION SHROUD #2 — MAINS: 200 A
INCOMING: — MAIN BKR: 200 A

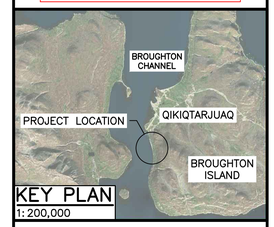
Remarks	Designation	CKT #	Watts	BKR	PHASE a	PHASE b	BKR	Watts	CKT#	Designation	Remarks
1	100A RECEPTACLE	1	4000	100A	X				2	SPACE	
1	100A RECEPTACLE	3	4000	2-P		X			4	SPACE	
1	30A RECEPTACLE	5	1200	30	X				6	SPACE	
1	30A RECEPTACLE	7	1200	2-P		X			8	SPACE	
2	20A RECEPTACLE	9	120	20A	X				10	SPACE	
2	20A RECEPTACLE	11	120	20A	X				12	SPACE	
2	SPARE	13		20A	X				14	SPACE	
2	SPARE	15		20A		X	15A	200	16	NAVIGATION LANTERN #2	3
2	SPARE	17		15A	X		15A	800	18	CABINET HEATER	

FEEDER: — SOURCE:

Remarks:
1 30 mA GROUND FAULT BREAKER
2 5 mA GROUND FAULT BREAKER
3 PROVIDE LOCK-ON DEVICE

Phase A Total	6120	W	17.6 A
Phase B Total	5520	W	15.9 A
TOTAL	11640	W	48.5 A

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KEY PLAN
1: 200,000

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Revision or Issue

GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

ELECTRICAL

WIRING DIAGRAMS AND PANEL SCHEDULES

Prime Consultant

CBCL

Sub Consultant

REGISTERED PROFESSIONAL ENGINEER
J.A. SMITH
LICENSEE
Oct. 23, 2025
NT/NU

CBCL No 234414	Contract No 22205-00762
Date MAR. 2025	Scale AS NOTED
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Drawing No **SE06**	

LIGHTING FIXTURE SCHEDULE AND SPECIFICATION

TYPE	DESCRIPTION	MOUNTING	SOURCE	COLOUR TEMPERATURE (K)	COLOUR RENDERING INDEX (CRI)	INPUT VOLTAGE	FIXTURE WATTAGE	FINISH	RATED LIFE	LISTINGS	MANUFACTURER	CATALOG NUMBER
L1	LED LOW PROFILE FLOODLIGHT, DIE-CAST ALUMINUM HOUSING WITH INTEGRAL HEAT SINK FINS, ZINC-INFUSED TGIC THERMOSET POWDER COAT FINISH, P4 PERFORMANCE PACKAGE, MEDIUM FLOOD DISTRIBUTION C/W BIRD SPIKES & WIRELESS EMBEDDED LIGHTING CONTROLS.	ADJUSTABLE TILT ARM	41,000 LUMEN LED LIGHT ENGINE	4000K	70 MIN	347Vac	312W	BLACK	L92 @ 100,000 HOURS	CSA / DLC / WET LOCATION	LITHONIA RSXF3	RSXF3 LED P4 40K MFL
L2	LED LOW PROFILE FLOODLIGHT, DIE-CAST ALUMINUM HOUSING WITH INTEGRAL HEAT SINK FINS, ZINC-INFUSED TGIC THERMOSET POWDER COAT FINISH, P4 PERFORMANCE PACKAGE, NARROW FLOOD DISTRIBUTION C/W BIRD SPIKES & WIRELSS EMBEDDED LIGHTING CONTROLS.	ADJUSTABLE TILT ARM	41,000 LUMEN LED LIGHT ENGINE	4000K	70 MIN	347Vac	312W	BLACK	L92 @ 100,000 HOURS	CSA / DLC / WET LOCATION	LITHONIA RSXF3	RSXF3 LED P3 40K NFL
L3	LED LOW PROFILE STREETLIGHT, SINGLE PIECE DIE-CAST ALUMINUM HOUSING WITH INTEGRAL HEAT SINK FINS, TGIC THERMOSET POWDER COAT FINISH, P2 PERFORMANCE PACKAGE, TYPE 2 MEDIUM DISTRIBUTION C/W BIRD SPIKES & WIRELSS EMBEDDED LIGHTING CONTROLS.	POLE ARM	9600 LUMEN LED LIGHT ENGINE	4000K	70 MIN	120Vac	68W	BLACK	L81 @ 100,000 HOURS	CSA / DLC / WET LOCATION	LITHONIA DSX1	DSX1 LED P2 40K 70CRI T2M

NOTES

1. THE PRODUCT SPECIFICATIONS LISTED ABOVE REPRESENT THE BASIC CATALOG NUMBER INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING AND INSTALLING ALL NECESSARY SUPPORTS FITTINGS, TRIMS, HOUSINGS, CANOPIES, ETC TO MAKE A COMPLETE LIGHTING ASSEMBLY.
2. ALTERNATE PRODUCTS MAY BE CONSIDERED BY THE CONSULTANT AND OWNER, THESE ALTERNATES WILL ONLY BE REVIEWED DURING THE TENDER PERIOD. CONTRACTOR WISHING TO PROVIDE ALTERNATE EQUIPMENT SHALL SUBMIT PROPOSAL BEFORE AWARD OF THE TENDER WITH THE REQUESTED MODIFICATIONS. ALTERNATE SUBMITTALS SHALL PROVIDE COMPLETE PRODUCT INFORMATION INCLUDING ANY DISCREPANCIES, EITHER PHYSICAL OR PERFORMANCE, FROM THOSE PRODUCTS SPECIFIED ABOVE. SUBMITTALS SHALL ALSO INCLUDE ANY POTENTIAL COST SAVINGS OR PERFORMANCE BENEFITS WHICH MAY BE OBTAINED BY UTILIZING THE PROPOSED ALTERNATE PRODUCT(S).
3. FINISHES OF ALL FIXTURES, TRIMS, HOUSINGS, ETC. SHALL BE CONFIRMED BY THE DESIGN TEAM DURING THE SHOP DRAWING PHASE.

POLE SCHEDULE

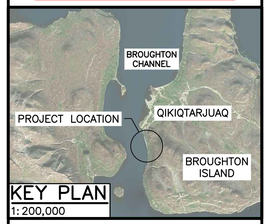
POLE NUMBER	FIXTURE NUMBER	FIXTURE TYPE	HEIGHT	MATERIAL	CCTV MOUNTING	MOUNTING ARM	MANUFACTURER	NOTES
LP 1	1	L1	18.3m	GALVANISED STEEL	YES	GALVANISED STEEL MULTI-FIXTURE CROSS ARM		C/W HAND HOLE, TWO-PIECE BASE COVER
	2	L1						FINISHED COLOUR: BLACK
	3	N/A						
	4	N/A						
LP 2	1	L1	18.3m	GALVANISED STEEL	YES	GALVANISED STEEL MULTI-FIXTURE CROSS ARM		C/W HAND HOLE, TWO-PIECE BASE COVER
	2	L1						FINISHED COLOUR: BLACK
	3	N/A						
	4	N/A						
LP3	1	L1	18.3m	GALVANISED STEEL	YES	GALVANISED STEEL MULTI-FIXTURE CROSS ARM		C/W HAND HOLE, TWO-PIECE BASE COVER
	2	L1						FINISHED COLOUR: BLACK
	3	N/A						
	4	N/A						
LP 4	1	L1	18.3m	GALVANISED STEEL	YES	GALVANISED STEEL MULTI-FIXTURE CROSS ARM		C/W HAND HOLE, TWO-PIECE BASE COVER
	2	L1						FINISHED COLOUR: BLACK
	3	N/A						
	4	N/A						
LP 5	1	L1	18.3m	GALVANISED STEEL	YES	GALVANISED STEEL MULTI-FIXTURE CROSS ARM		C/W HAND HOLE, TWO-PIECE BASE COVER
	2	L1						FINISHED COLOUR: BLACK
	3	N/A						
	4	N/A						
LP 6	1	L1	18.3m	GALVANISED STEEL	YES	GALVANISED STEEL MULTI-FIXTURE CROSS ARM		C/W HAND HOLE, TWO-PIECE BASE COVER
	2	L2						FINISHED COLOUR: BLACK
	3	L2						
	4	L1						
LP7	1	L1	18.3m	GALVANISED STEEL	YES	GALVANISED STEEL MULTI-FIXTURE CROSS ARM		C/W HAND HOLE, TWO-PIECE BASE COVER
	2	L1						FINISHED COLOUR: BLACK
	3	N/A						
	4	N/A						
LP 8	1	L1	18.3m	GALVANISED STEEL	YES	GALVANISED STEEL MULTI-FIXTURE CROSS ARM		C/W HAND HOLE, TWO-PIECE BASE COVER
	2	L1						FINISHED COLOUR: BLACK
	3	N/A						
	4	N/A						
LP 9	1	L1	18.3m	GALVANISED STEEL	YES	GALVANISED STEEL MULTI-FIXTURE CROSS ARM		C/W HAND HOLE, TWO-PIECE BASE COVER
	2	L2						FINISHED COLOUR: BLACK
	3	L2						
	4	L1						
LP 10	1	L1	18.3m	GALVANISED STEEL	YES	GALVANISED STEEL MULTI-FIXTURE CROSS ARM		C/W HAND HOLE, TWO-PIECE BASE COVER
	2	L2						FINISHED COLOUR: BLACK
	3	L2						
	4	L1						
LP 11	1	L1	18.3m	GALVANISED STEEL	YES	GALVANISED STEEL MULTI-FIXTURE CROSS ARM		C/W HAND HOLE, TWO-PIECE BASE COVER
	2	L1						FINISHED COLOUR: BLACK
	3	L1						
	4	N/A						
LP 12	1	L1	18.3m	GALVANISED STEEL	YES	GALVANISED STEEL MULTI-FIXTURE CROSS ARM		C/W HAND HOLE, TWO-PIECE BASE COVER
	2	L1						FINISHED COLOUR: BLACK
	3	L1						
	4	N/A						
LP 13	1	L1	18.3m	GALVANISED STEEL	YES	GALVANISED STEEL MULTI-FIXTURE CROSS ARM		C/W HAND HOLE, TWO-PIECE BASE COVER,
	2	L1						FINISHED COLOUR: BLACK
	3	N/A						
	4	N/A						
LP 14	1	L3	6m	GALVANISED STEEL	NO	SINGLE FIXTURE MOUNTING BRACKET TO MATCH FIXTURE		C/W HAND HOLE, TWO-PIECE BASE COVER,
	2	N/A						FINISHED COLOUR: BLACK
	3	N/A						
	4	N/A						
LP 15	1	L3	6m	GALVANISED STEEL	NO	SINGLE FIXTURE MOUNTING BRACKET TO MATCH FIXTURE		C/W HAND HOLE, TWO-PIECE BASE COVER,
	2	N/A						FINISHED COLOUR: BLACK
	3	N/A						
	4	N/A						

NOTES:
1. FIXTURE NUMBERS REPRESENT LOCATIONS ON POLE FROM LEFT TO RIGHT WHEN VIEWED FROM FRONT OF POLE.
2. POLE MUST ACCOMMODATE 4 FIXTURES EACH WITH E.P.A. RATING OF 0.38m² (4 SQ. FT)

CALCULATION SUMMARY

LABEL	CALCULATION TYPE	TARGETS		CALCULATIONS				
		ILLUMINATION (LUX)	UNIFORMITY (MAX/MIN)	AVERAGE	MAX	MIN	AVG/MIN	MAX/MIN
ACCESS ROAD	ILLUMINANCE	30	10:1	38.55	61.5	26.4	1.46	2.33
ADMIN PARKING	ILLUMINANCE	10	15:1	28.33	37.4	24.9	1.14	1.5
MAIN AREA	ILLUMINANCE	30	12:1	39.37	133.2	12.2	3.23	10.92
LOADING DOCK	ILLUMINANCE	30	12:1	50.71	141.3	16.3	3.11	8.67
BERTHING AREA	ILLUMINANCE	30	12:1	28.13	58.7	15.7	1.79	3.74

Nunavut



KEY PLAN
1: 200,000

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PERMIT TO PRACTICE
CBCL Limited
Signature
Date 2025-10-24
PERMIT NUMBER: P1441
NTNU Association of Professional Engineers and Geoscientists

No.	Description	Date	By
0	ISSUED FOR TENDER	OCT 23/25	SW

Revision or Issue

GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

ELECTRICAL

SCHEDULES

Prime Consultant

CBCL

Sub Consultant

REGISTERED PROFESSIONAL ENGINEER
J.A. SMITH
LICENSEE
Oct. 23, 2025
NT/NU

CBCL No	Contract No
234414	22205-00762
Date: MAR. 2025	Scale: AS NOTED
Designed: SW	Drawn: SDC/MM
Checked: JAS	Approved: DDP
Sheet No: 7 of 7	
Drawing No: SE07	

GENERAL

1. THESE DRAWINGS ARE PREPARED FOR THE SOLE USE OF THE CLIENT FOR THE SUBJECT TOWER. THE USE OF ANY PART OF THE INFORMATION CONTAINED HEREIN SHALL BE CONSIDERED TO BE AT THE SOLE RISK OF THE USER.
2. A SITE VISIT SHALL BE CARRIED OUT BY THE BIDDER BEFORE PREPARING THEIR BID IN ORDER TO CONSIDER AND ACCOUNT FOR EXISTING SITE CONDITIONS AND VERIFY THE DIMENSIONS CONTAINED WITHIN THIS DRAWING PACKAGE (PARTICULARLY THE LOCATION OF EXISTING HOLES OR THE TOWER FACE WIDTH AT THE ELEVATION OF THE INSTALLATION). THE CONTRACTOR SHALL ADVISE THE ENGINEER OF RECORD OF ANY CONFLICTS OR OMISSIONS NOTED ON SITE. THE CONTRACTOR SHALL CARRY OUT THIS VERIFICATION BEFORE THE PREPARATION OF SHOP DRAWINGS AND FABRICATION OF THE NEW ELEMENTS AS INDICATED IN THIS DRAWING PACKAGE.
3. THE CONTRACTOR SHALL EXECUTE ALL WORK AS DESCRIBED IN THIS DOCUMENT IN ENTIRE CONFORMITY WITH THE DRAWINGS. THIS INCLUDES (AND IS NOT LIMITED TO) ALL ELEMENTS WITHIN THE SCOPE OF WORK AND SHEET SPECIFIC NOTES WITHIN THE DRAWINGS.
4. ANY PROPOSED CHANGES TO THE DRAWINGS SHALL BE SUBMITTED TO THE EQUIPMENT OWNER AND VARCON FOR APPROVAL PRIOR TO THEIR FABRICATION AND/OR INSTALLATION. FOR ANY CHANGES CARRIED OUT WITHOUT PRIOR APPROVAL THE CONTRACTOR SHALL BE RESPONSIBLE TO PAY THE FEES AND EXPENSES OF VARCON TO MEASURE–UP THE CHANGES ON SITE, TO EVALUATE THE CHANGES AND TO PREPARE THE AS–BUILT DRAWINGS EVEN IF IT IS CONCLUDED THAT THE CHANGES ARE CONSIDERED ACCEPTABLE.
5. ALL DIMENSIONS ARE GIVEN IN MILLIMETERS, ALL ELEVATIONS ARE GIVEN IN METERS AND ALL AZIMUTHS ARE REFERENCED TO TRUE NORTH UNLESS NOTED OTHERWISE.
6. DO NOT SCALE DIMENSIONS FROM THE DRAWINGS.
7. ALL STANDARDS REFERENCED IN THESE DRAWINGS ARE THE LATEST REVISION OF THOSE STANDARDS.
8. TOLERANCES FOR ERECTION OF STRUCTURES SHALL CONFORM TO THOSE SPECIFIED IN CSA S37 AND S16.
9. ANY WORK INVOLVING THE TEMPORARY REMOVAL OF EXISTING MEMBERS OR EXCAVATION AROUND EXISTING FOUNDATIONS/ANCHORS SHALL BE CARRIED OUT WHEN THE WIND IS LESS THAN 25km/h AND WITH NO ICE ON THE TOWER. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS AS NOT TO CAUSE ANY MOVEMENT OR DISTORTION IN THE TOWER LEGS. IT IS NOT PERMITTED TO LOOSEN MORE THAN ONE MEMBER AT A TIME UNLESS TEMPORARY REINFORCING MEMBERS ARE INSTALLED. ANY TEMPORARY REINFORCING SHALL BE APPROVED BY A QUALIFIED ENGINEER.
10. WHENEVER EXISTING EQUIPMENT ON THE TOWER WOULD HINDER THE WORK, IT SHALL BE TEMPORARILY REMOVED AND LATER REINSTALLED AFTER THE WORK IN THE AREA HAS BEEN COMPLETED. PRIOR TO CARRYING OUT THE TEMPORARY REMOVAL AND REINSTALLATION, THE CONTRACTOR SHALL COORDINATE WITH THE OWNER.
11. THE CONTRACTOR SHALL SUBMIT THE SHOP DRAWINGS OF ALL NEW ELEMENTS PRIOR TO FABRICATION, FOR APPROVAL BY THE ENGINEER OF RECORD.
12. NEW TRANSMISSION LINES MUST BE INSTALLED AS SHOWN ON THE DRAWINGS OVER THE ENTIRE HEIGHT OF THE TOWER.
13. AT THE COMPLETION OF THE WORK, THE SITE SHALL BE CLEANED OF ALL DEBRIS TO THE SATISFACTION OF THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY HIS WORK TO EXISTING INSTALLATIONS AND EQUIPMENT.

CONCRETE

1. THE CONTRACTOR IS FULLY RESPONSIBLE FOR REINFORCED CONCRETE WORKS SHOWN IN THESE DRAWINGS.
2. CONCRETE MATERIAL AND METHOD OF CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF CSA A23.1/A23.2.
3. ALL CONCRETE SHALL HAVE MINIMUM SPECIFIED 28 DAY COMPRESSIVE STRENGTH OF 30 MPa, SLUMP OF 75mm TO 150mm, WITH ENTRAINED AIR OF 4% TO 7% UNLESS NOTED OTHERWISE. CEMENT SHALL BE TYPE 10 UNLESS WARRANTED BY SITE CONDITIONS AND OR CONTRACTOR EXPERIENCE.
4. ALL REINFORCING STEEL BARS SHALL CONFORM TO CSA G30.18 AND HAVE A YIELD STRENGTH OF 400MPa UNLESS OTHERWISE NOTED.
5. LAPS, ANCHORS AND SPLICES SHALL COMPLY WITH THE REQUIREMENTS OF CSA A23.3.
6. CONCRETE TESTS FOR SLUMP, PLACEMENT AND AIR SHALL BE COMPLETED BY A THIRD PARTY FIRM. TESTING METHOD SHALL CONFORM TO CSA A23.2.

STRUCTURAL STEEL AND BOLTS

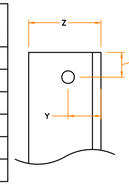
1. ALL NEW STEEL IS TO CONFORM TO THE LATEST REVISION OF CSA G40.20/G40.21 300W (350W FOR HSS) UNLESS NOTED OTHERWISE.
2. BOLTS IN ALL CONNECTIONS SHALL BE HIGH STRENGTH BOLTS CONFORMING TO ASTM A325 OR A325M. BOLTS SHALL BE IN FULL BEARING AND THREADS EXCLUDED FROM THE SHEAR PLANES. USE ONLY NEW BOLTS AND DO NOT REUSE EXISTING BOLTS ONCE REMOVED.
3. UNLESS SPECIFIED OTHERWISE, BOLT END AND EDGE DISTANCES SHALL MEET THE REQUIREMENTS OF TABLE 1.
4. BOLTS ARE TO BE PRE–TENSIONED TO AT LEAST THE MINIMUM SPECIFIED TENSION AS PER CSA S16 USING THE 'TURN–OF–NUT' METHOD (REFER TO TABLE 2).
5. ALL NEW STEEL MEMBERS, BOLTS AND STRUCTURAL HARDWARE SHALL BE HOT–DIP GALVANIZED IN ACCORDANCE WITH CSA G164 UNLESS NOTED OTHERWISE.
6. ANY DAMAGE TO GALVANIZING ON SURFACES OR AROUND FIELD DRILLED HOLES IS TO BE REPAIRED WITH TWO COATS OF ZINC RICH PAINT. BRUSH APPLY ONLY.
7. ALL WELDING (USING E49XX ELECTRODES) SHALL CONFORM TO CSA W59 AND W47.1. ALL WELDING SHALL BE COMPLETED BY CWB CERTIFIED WELDERS IN A CWB CERTIFIED SHOP. ALL WELDS SHALL BE SEALED WELDS AND THOROUGHLY CLEANED TO PERMIT PROPER AND COMPLETE GALVANIZING.
8. THE USE OF A TORCH TO CORRECT ERRORS ON SITE OR TO CREATE NEW HOLES IS NOT PERMITTED. ALL FIELD HOLES SHALL BE DRILLED.
9. ALL U–BOLTS SHALL MEET THE REQUIREMENTS OF ASTM A36. U–BOLT THREADS SHALL BE ROLLED AND NOT CUT.
10. THREADED ROD SHALL BE GRADE 5 UNLESS NOTED OTHERWISE.
11. FIELD WELDING IS NOT PERMITTED UNLESS NOTED OTHERWISE.

ICE GUARDS

1. THE CONTRACTOR SHALL DESIGN, FURNISH AND INSTALL STEEL ELEMENTS IN ORDER TO PROTECT THE NON–VERTICAL PORTION OF THE TRANSMISSION LINES BETWEEN THE ANTENNA AND THE TX–LINE SUPPORTS AND THE TOWER, BETWEEN THE TX–LINES SUPPORT AND THE WAVEGUIDE BRIDGE AND BETWEEN THE WAVEGUIDE BRIDGE AND THE FEED THRU PLATE ON THE SHELTER AGAINST FALLING ICE.
2. REQUIREMENTS FOR ICE GUARDS NOT DESIGNED/SPECIFIED BY VARCON:
   - THE CONTRACTOR SHALL PROVIDE SEALED ENGINEERING DRAWINGS OR CONFIRMATION OF COMPLIANCE FROM THE ENGINEER OF RECORD TO VARCON FOR OUR RECORDS.
   - THE ICE–SHIELD SHALL BE DESIGNED TO WITHSTAND ITS SELF WEIGHT, AND THE SITE SPECIFIC WIND/ICE LOADING AS DEFINED IN THIS DRAWING PACKAGE.
   - THE ICE–SHIELD SHALL BE DESIGNED TO SAFELY RESIST A VERTICAL UNFACTORED CONCENTRATED LOAD OF 1.1 kN THAT COULD BE APPLIED ANYWHERE ON THE ICE SHIELD.
   - THE ICE–SHIELD SHALL EXCEED THE FOOT PRINT OF THE ANTENNA BY AT LEAST 150mm ALL AROUND AND INSTALLED AT A MINIMUM DISTANCE OF 300mm ABOVE THE TOP OF THE ANTENNA U.N.O.
   - ICE–SHIELD CABLE SUPPORTS ARE NOT PERMITTED. ALL ICE SHIELD STRUTS MUST BE RIGID.
   - A HORIZONTAL MEMBER CONNECTED BACK TO THE TOWER SHALL BE INSTALLED TO PREVENT MOVEMENT OF THE ICE–SHIELD IN A HORIZONTAL PLANE.
   - IF THE ICE–SHIELD IS SUPPORTED BY THE SAME PIPE SUPPORTING THE ANTENNA, THE CONTRACTOR SHALL DESIGN AND SPACE THE PIPE SUPPORTS TO THE TOWER SO AS NOT TO EXCEED THE RESISTANCE OF THE PIPE OR CAUSE DEFLECTIONS IN THE ANTENNA BEAM.
   - THE CONTRACTOR SHALL ENSURE THAT THE ICE–SHIELD CLEARS ALL EXISTING ELEMENTS ON THE TOWER (e.g. ANTENNAS, LIGHTS, GUYS, ETC.).

TABLE 1 – EDGE AND END DISTANCES

SIZE [Z] (mm)	GAUGE [Y] (mm)
51	28
64	35
76	40
89	45
102	50
127	65



BOLT SIZE (mm)	END DIST.* [X] (mm)
13	25
16	30
19	35
22	40

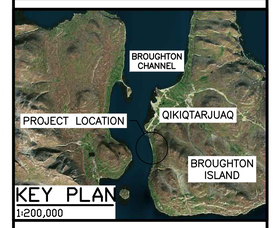
TABLE 2 – NUT ROTATION FROM SNUG TIGHT*

CONNECTION TYPE	BOLT LENGTH (UNDERSIDE OF HEAD TO TIP)	TURN FROM SNUG TIGHT
BOTH FACES NORMAL TO BOLT AXIS OR ONE FACE NORMAL TO BOLT AXIS AND OTHER SLOPED NOT MORE THAN 1:20 (BEVELED WASHER NOT USED)	UP TO AND INCLUDING 4ø	90° TO 150°
	GREATER THAN 4ø UP TO AND INCLUDING 8ø OR 200mm	150° TO 210°
	GREATER THAN 8ø OR 200mm	210° TO 270°
BOTH FACES SLOPED NOT MORE THAN 1:20 (BEVELED WASHER NOT USED)	ALL LENGTHS	240° TO 300°

* SNUG TIGHT IS DEFINED AS THE TIGHTNESS THAT EXISTS WHEN ALL PARTS IN A JOINT ARE IN FIRM CONTACT. IT IS ACHIEVED BY A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF A CONTRACTOR USING A STANDARD WRENCH. RE–SNUGGING MAY BE REQUIRED IN LARGE JOINTS AND DOES NOT COUNT AS REUSING A BOLT.

NOTE: NUT ROTATION IS RELATIVE TO THE BOLT REGARDLESS OF WHETHER THE NUT OR BOLT HEAD IS BEING TURNED.

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GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

GENERAL NOTES

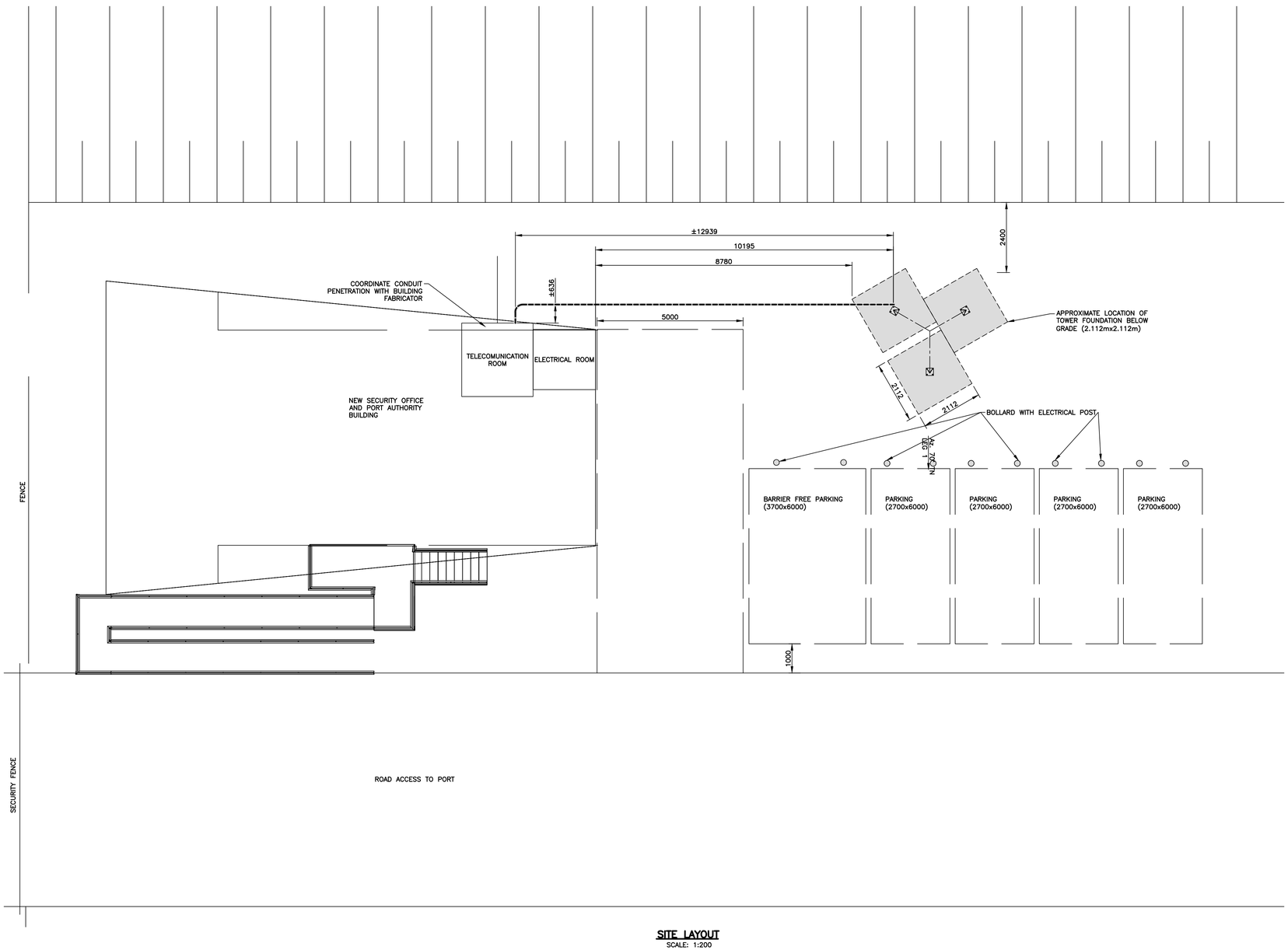
CBCL

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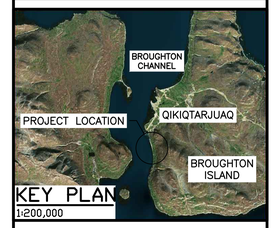


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Date 25-09-11	Scale AS SHOWN
Designed ATE	Drawn BOB
Checked JCH	Approved JCH
Sheet No	of
Drawing No	T01

CBCL-610x914 TITLE SHEET (ARCH D)



SITE LAYOUT
SCALE: 1:200



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QIKIQTARJUAQ MARINE INFRASTRUCTURE

SITE LAYOUT

CBCL

varcon

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Sheet No	of
Drawing No	T02

CBCL-610x914 TITLE SHEET (ARCH D)

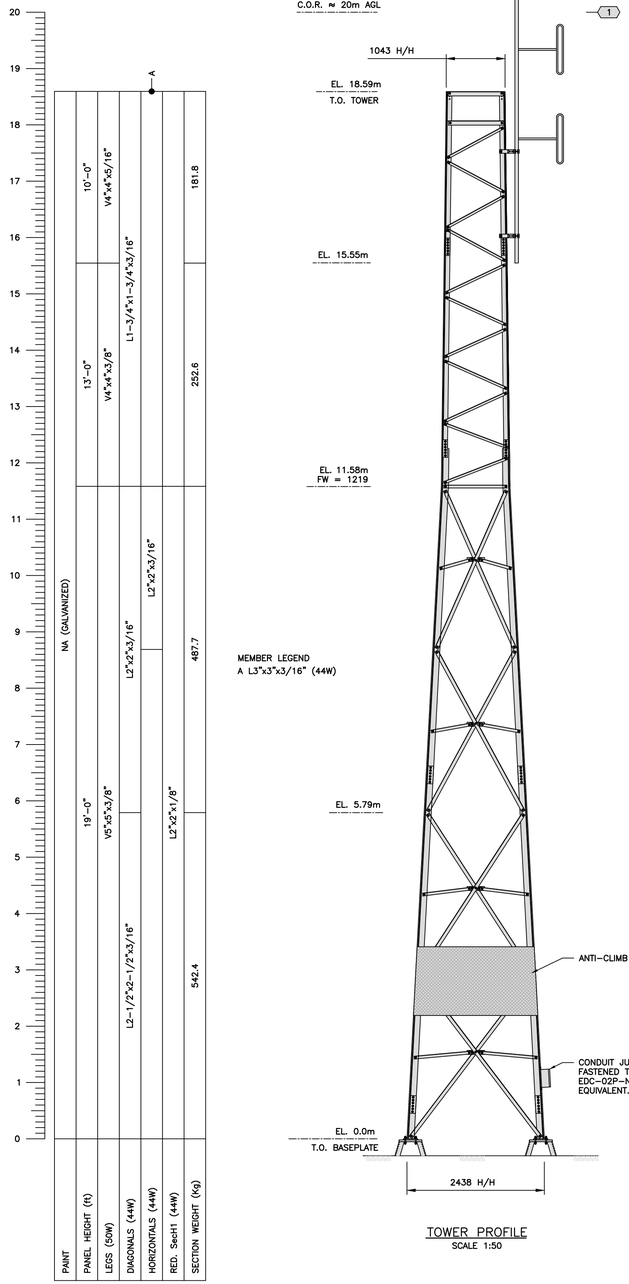
LEGEND:

SHADED AREAS INDICATE ELEMENTS INCLUDED IN THIS SCOPE.

THIS PROJECT ANTENNA

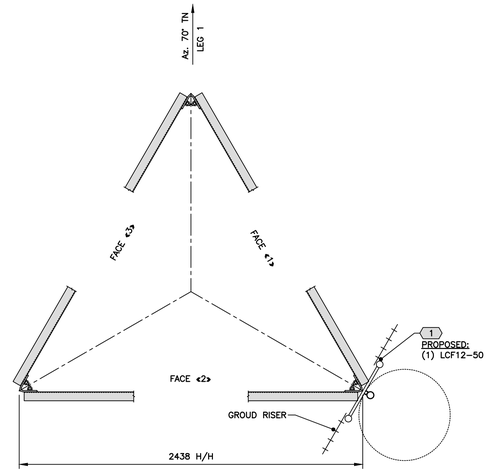
TOWER INFORMATION
ORIGINAL DESIGN: CSA S37-24
YEAR OF CONSTRUCTION: TBD
MODEL: 61ft. (18.6m) SUPERTITAN

LOADING
DESIGN SPECIFICATIONS: CSA S37-24
WIND/SOURCE*: qh=653Pa/(ENVIROMENT CANADA) DATA S37-24
ICE SOURCE: 22mm / ICE MAP S37-24
CO-ORDINATES: 67° 31' 50.9" (N) 64° 01' 49.1" (W)
ANALYSIS DATED: VARCON INC. 2024-08-26



MEMBER LEGEND
A L3"x3"x3/16" (44W)

TOWER PROFILE
SCALE 1:50



TX LINE LAYOUT
SCALE 1:20

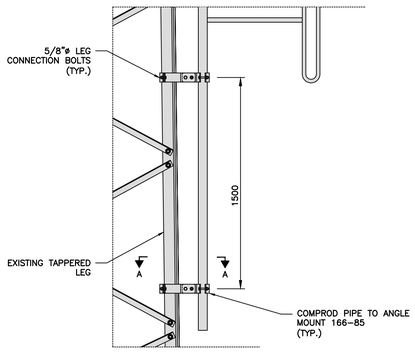
ANTENNA LIST											
ANT No.	ANTENNA IDENTIFIER	OWNER	STATUS	ANTENNA DESCRIPTION	ELEV. (m)	Tx-LINE	EQUIPMENT	JUMPER LENGTH	Az. (TN°)	TIE SITE /CODE	LOCATION
1	–	GOVERNMENT OF NUNAVUT	PROPOSED	«COMPROD» 874F-70-SM-1/2	20.0	(1) LCF12-50J	–	–	TBD	–	LEG 1

NOTES:

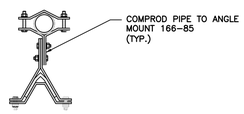
1. ELEVATION OF THE ANTENNAS ARE GIVEN WITH RESPECT TO ELEVATION 0.0m ON THE TOWER (TOP OF BASE PLATE).
2. THE ELEVATIONS GIVEN FOR OMNI ANTENNAS ARE THOSE OF JUNCTION OF THE METALLIC BASE AND THE ANTENNA ITSELF.

LEGEND:

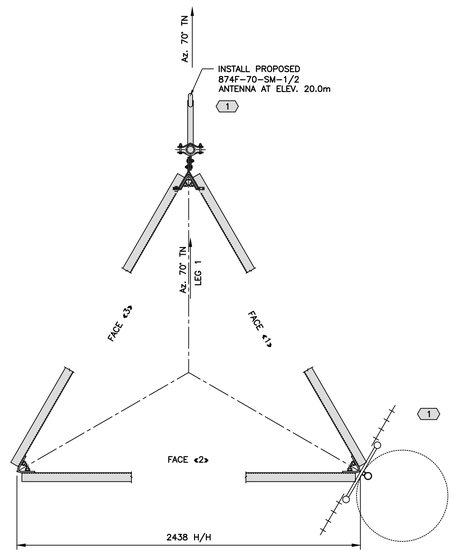
SHADED AREAS INDICATE ELEMENTS INCLUDED IN THIS SCOPE.



LEG ATTACHMENT DETAIL
SCALE 1:20

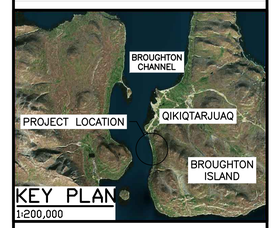


SECTION A-A
SCALE 1:10



ANTENNA LAYOUT ELEV. 20.0m
SCALE 1:20

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GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

TOWER PROFILE, ANTENNA LOADING CHART, TX LINE LAYOUT & DETAIL VIEWS

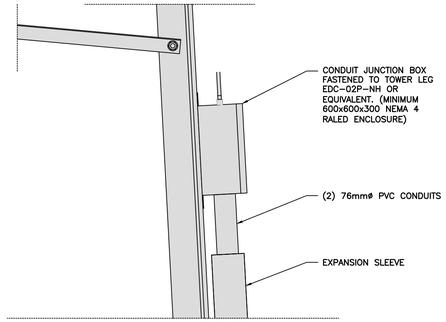
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REGISTERED PROFESSIONAL ENGINEER NUNAVUT 2025-10-22

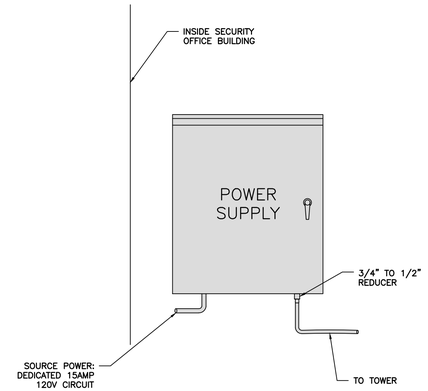
CBCL No	Contract No
234414.00	230850
Date: 25-09-11	Scale: AS SHOWN
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Checked: JCH	Approved: JCH
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Drawing No: T03	

CBCL-610x914 TITLE SHEET (ARCH D)



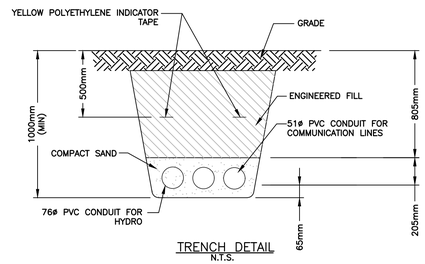
JUNCTION BOX INSTALLATION

NOTE:
1. ALL CONDUIT PROTRUDING INSIDE JUNCTION BOXES TO HAVE A 1" PLASTIC BUSHING TO PROTECT WIRED JACKET.
2. SEE TOWER PROFILE FOR LOCATION OF CABLE ON TOWER.
3. ELECTRICAL CABLE SUPPORT
   A) SECURE Tx BRACKETS FOR 3#14 TECK, #100049 CLIPS WITH 1/4"x1" Gr5 BOLT ASSEMBLY.

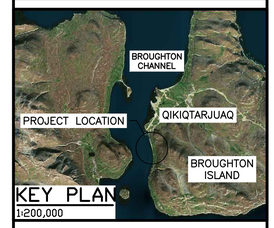


POWER SUPPLY

NOTE:
POWER SUPPLY NOT TO BE MOUNTED ON W/G PORT WALL



TRENCH DETAIL
N.T.S.



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QIKIQTARJUAQ MARINE INFRASTRUCTURE

TOWER UNDERGROUND TRENCH DETAILS

REGISTERED PROFESSIONAL ENGINEER NT/NU 2025-10-22

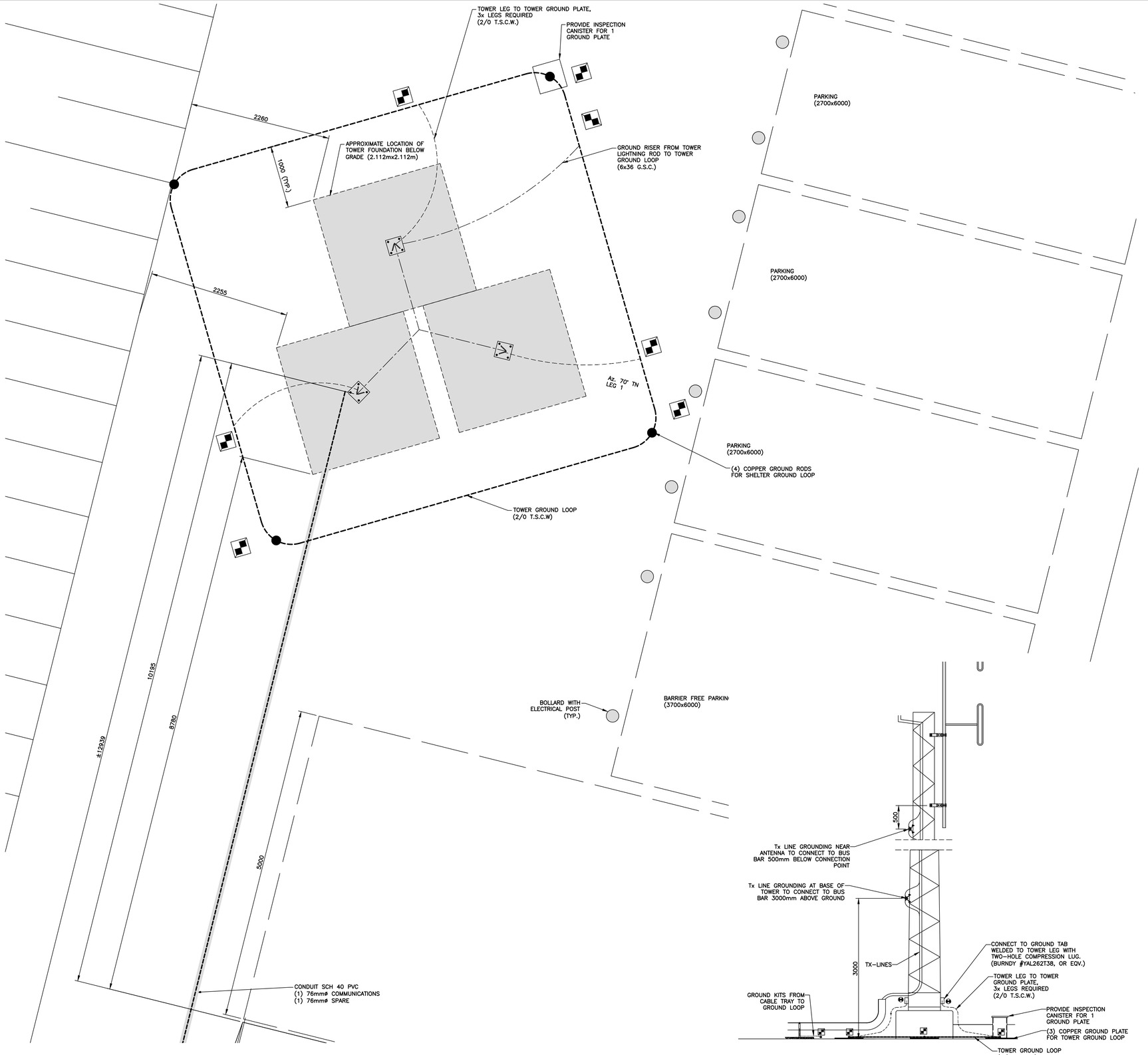
CBCL No 234414.00	Contract No 230850
Date 25-09-11	Scale AS SHOWN
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Sheet No	of
Drawing No	T04

CBCL-610x914 TITLE SHEET (ARCH D)

LEGEND	
SYMBOL	DESCRIPTION
——-——	GALVANIZED STEEL CABLE 7/16" 6x36 (G.S.C.)
– – – – –	2/0 TINNED BARE COPPER WIRE (T.S.C.W.)
●	3.05m 19mmø COPPER CLAD GROUND ROD
⊕	2–HOLE LUG COMPRESSION FITTING (BURNDY #YAL262T38)
▪	IRREVERSIBLE COMPRESSION CONNECTION (BURNDY #YGHC26C26TN)

NOTES:

1. AT MINIMUM, ALL MATERIALS AND CONNECTORS SHALL CONFORM TO C22.2 NO. 41–13 OR GREATER WHERE SPECIFIED.
2. GROUND ELECTRODES SHALL BE FREE OF PAINT OR OTHER NON–CONDUCTIVE COATINGS.
3. AT GROUND LEVEL, BURY GROUND RODS/PLATES AND CONDUCTORS A MINIMUM OF 600mm BELOW FINISHED GRADE, OR OTHERWISE AS DEEP AS ROCK WILL ALLOW.
4. EACH LOOP MUST MAINTAIN A 600mm MIN. (1000m PREFERRED) FROM FOUNDATIONS WHERE POSSIBLE AND MUST NOT CONTAIN SHARP BENDS.
5. GROUND PLATES (WHEN SPECIFIED) SHALL BE OF COPPER, WITH MNIIMUM THICKNESS OF 1.5mm AND SHALL HAVE A TOTAL SURFACE AREA NOT LESS THAN 0.4m².
6. GROUND RODS (WHEN SPECIFIED) SHALL BE COPPER OR COPPER CLAD STEEL, 15.8 OR 19mm MIN. DIAMETER BY 3m LONG.
7. GROUND RODS/PLATES IN THE SAME LOOP SHALL BE EVENLY SPREAD OUT AND GREATER THAN 3.0m APART.
8. APPLY ANTI–OXIDANT COMPOUND (T&B BLACKBURN CT–CONTAX OR EQUAL) TO POINT OF CONTACT AT INTERNAL AND EXTERNAL CONNECTIONS.
9. INSPECTION CANISTERS (WHEN SPECIFIED) SHALL HAVE A 305mm DIAMETER WITH REMOVABLE COVER.
10. IF ROCK IS ENCOUNTERED, DRILL 76ø HOLE FOR GROUND RODS AND FILL WITH G.E.M. BY ERICO OR SIMILAR.
11. DRAWING IS SCHEMATIC AND THE CONTRACTOR MAY ALTER LOCATIONS OF GROUNDING ELEMENTS TO SUIT FINAL LAYOUT AND ORIENTATION WHILE STILL MEETING GROUNDING SPECIFICATIONS.
12. AFTER COMPLETE INSTALLATION OF THE GROUNDING ELECTRODE SYSTEM, MEASURE THE RESISTANCE TO EARTH AND ENSURE A RESISTANCE OF 10 OHMS OR LESS IS ACHIEVED. PROVIDE ADDITIONAL GROUND RODS/PLATES AND RETEST RESISTANCE. REPEAT UNTIL A SUFFICIENTLY LOW RESISTANCE IS ACHIEVED.



TOWER GROUNDING LAYOUT
SCALE 1:40

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Revision or Issue

GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

TOWER GROUNDING & BUS BAR DETAILS

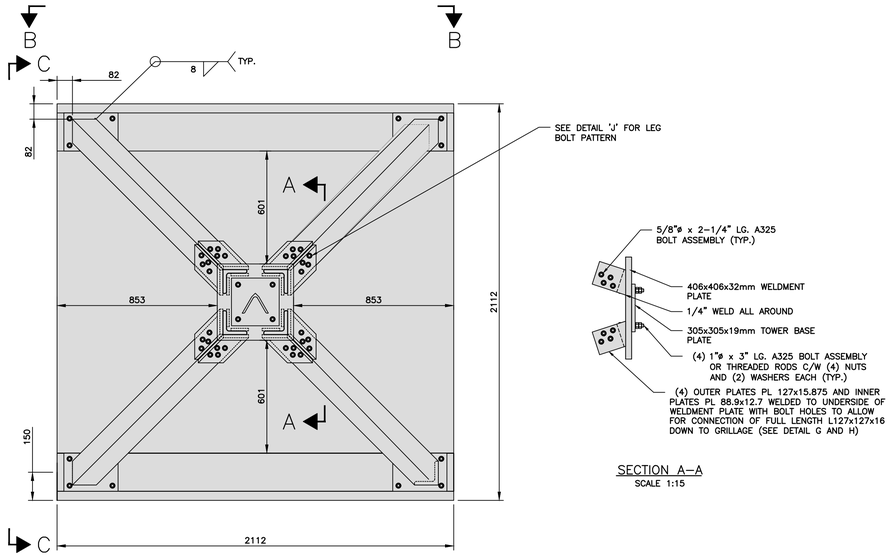
CBCL

varcon

REGISTERED PROFESSIONAL ENGINEER 2025-10-22 NUNAVUT

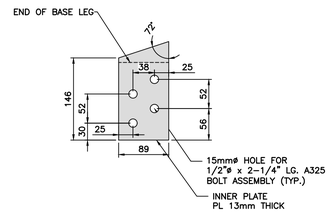
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Date 25-09-11	Scale AS SHOWN
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Sheet No	of
Drawing No	T05

CBCL-610x914 TITLE SHEET (ARCH D)

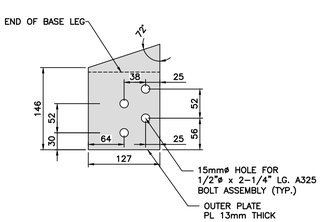


STEEL GRILLAGE FOUNDATION
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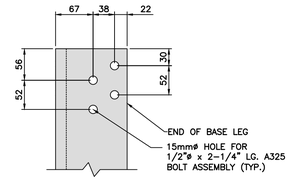
SECTION A–A
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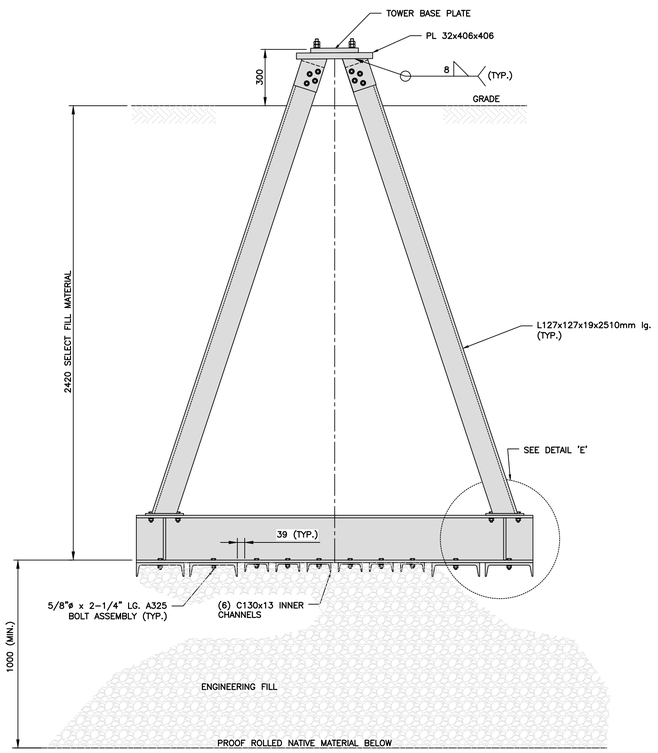
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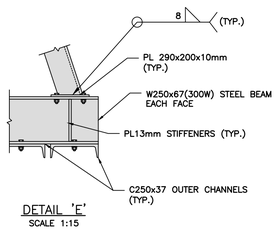
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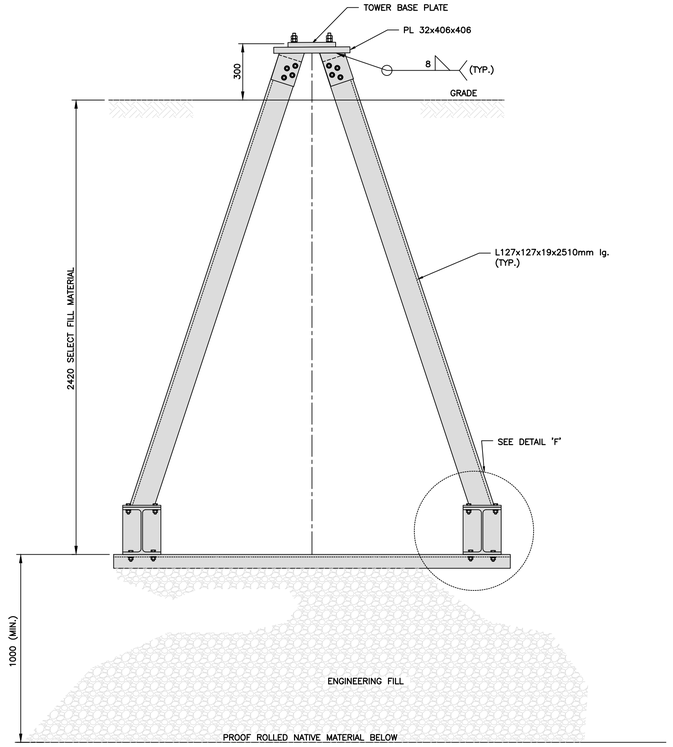
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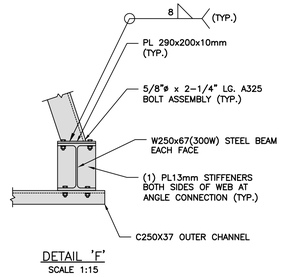
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DETAIL 'E'
SCALE 1:15

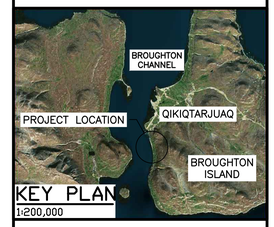


SECTION C–C
SCALE 1:15



DETAIL 'F'
SCALE 1:15

Nunavut



NOT FOR CONSTRUCTION

No.	Description	Date	By
0	ISSUED FOR TENDER	OCT 23/25	JC

Revision or Issue

GOVERNMENT OF NUNAVUT

QIKIQTARJUAQ MARINE INFRASTRUCTURE

TOWER FOUNDATION LAYOUT & ELEVATIONS

CBCL

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REGISTERED PROFESSIONAL ENGINEER 2025-10-22 NUNAVUT

CBCL No 234414.00	Contract No 230850
Date 25-09-11	Scale AS SHOWN
Designed ATE	Drawn BOB
Checked JCH	Approved JCH
Sheet No of	
Drawing No T06	

CBCL-610x914 TITLE SHEET (ARCH D)