AGNICO EAGLE

December 14, 2021

NWB File No. 2AM-WTP1830
NIRB File No.: 16MN056

Karén Kharatyan
Director Technical Services
Nunavut Water Board
PO Box 119
Gjoa Haven, NU X0B 1J0

Re: 2AM-WTP1830 –60-Day Notice Whale Tail Emulsion Plant

Dear Karén Kharatyan,

Agnico Eagle Mines Limited (Agnico Eagle) is writing to the Nunavut Water Board (NWB) to provide 60-day notice for the commission and construction of an Emulsion Plant for the Whale Tail Pit Project under Type A Water Licence (2AM-WTP1830).

With the eventual start of production of the underground mine at Whale Tail, a new Emulsion Plant will be built to accommodate emulsion requirements for the underground mine and also supply the open pit. In January 2022, Agnico Eagle will have commissioned the new Whale Tail Emulsion Plant to start producing emulsion for the open pit and the underground mine. This plant will allow the mine to end the transportation of emulsion along the Haul Road from Meadowbank; thereby producing the appropriate explosive products for both underground and surface mines on-site.

The new plant will produce at a rate of 40,000 kg of emulsion per day, while having a capacity of storage of 135,000 kg of emulsion (3x45,000 kg stainless steel silos) in the existing building. The general layout will respect the quantity distances as prescribed by the *National Standard of Canada CAN/BNQ 2910-510/2015 Explosives – Quantity Distances*.

The mixing area will be covered with an EPDM GEOTOUCH membrane to protect against any infiltration. This area will slope so the flow is collected in one centralized sump location. Refer to the Attachment for further details.

The daily fresh water requirement of the Emulsion Plant will be approximately 8 m^3 per day. When required, the Emulsion Plant will be supplied with water from Nemo Lake from a tanker truck that will fill the plant's 24,500 liter tank.

Attachment A provides the following details of the Emulsion Plant:

- Building;
- General arrangement;
- Location; and
- Containment grading.

Agnico Eagle acknowledges Management Plans will need to be revised to reflect the Emulsion Plant and will submit the following plans under a forthcoming cover:

- Ammonia Management Plan;
- Spill Contingency Plan; and
- Water Management Plan

Closure

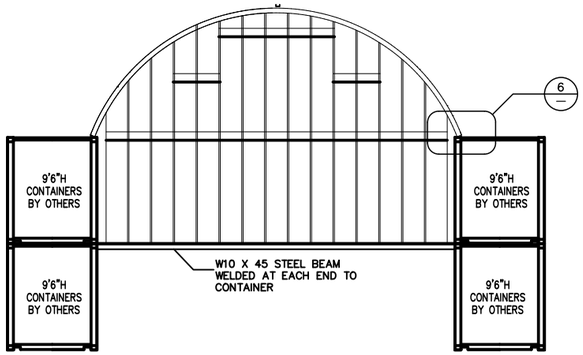
Agnico Eagle is committed to responsibly manage waste and water resources in accordance with the Type A Water Licence 2AM-WTP1830, the Project Certificate No. 008-Amendment 001, and objectives as outlined in Management Plans for the Project.

Agnico Eagle is respectfully requesting the Nunavut Water Board to expedite the review of the Whale Tail Emulsion Plant and provide approval by January 7, 2022.

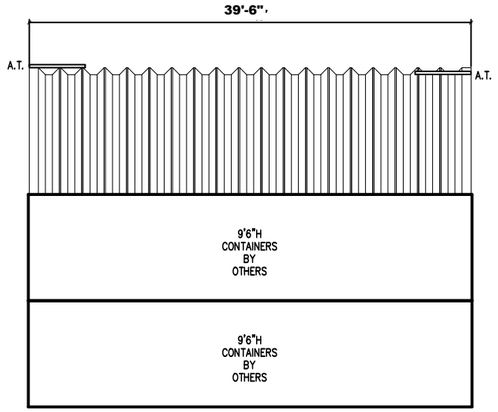
Should you have any questions, please do not hesitate to contact me directly.

Sincerely,

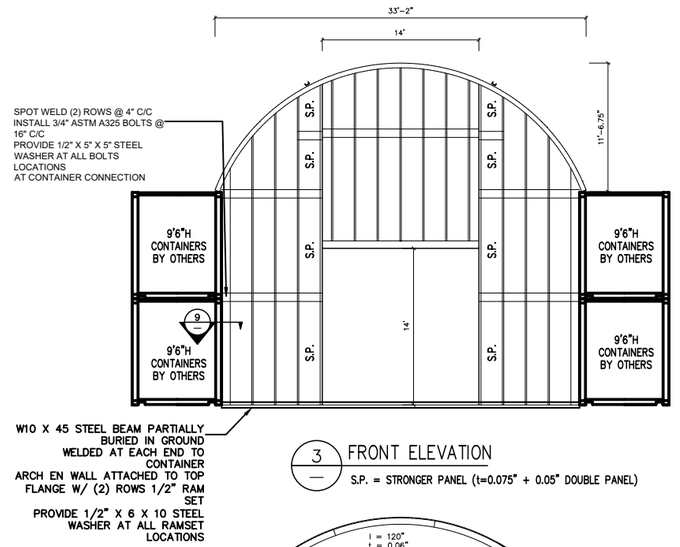
Michel Groleau
Superintendent, Permitting & Regulatory Affairs
Agnico Eagle Mines Limited



1 — REAR ELEVATION

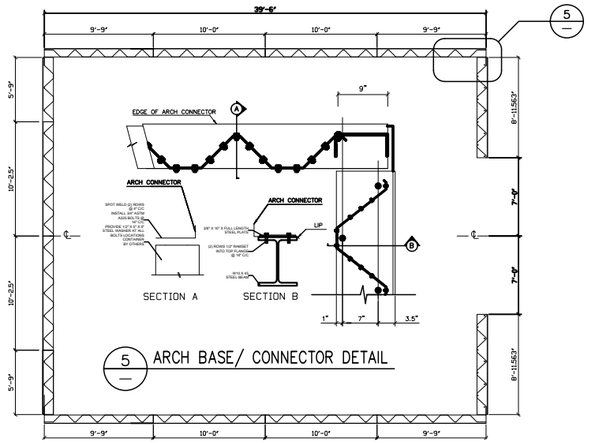


2 — SIDE ELEVATION



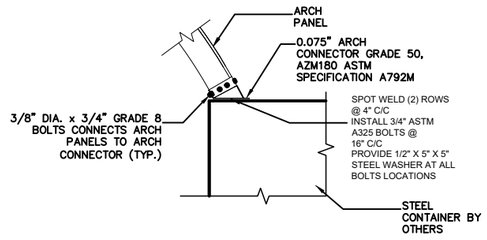
3 — FRONT ELEVATION

S.P. = STRONGER PANEL (t=0.075" + 0.05" DOUBLE PANEL)

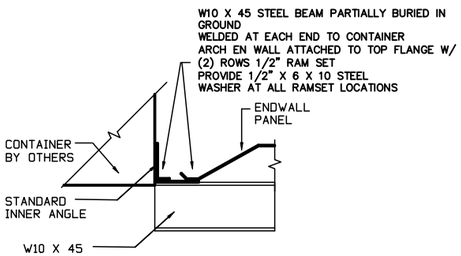


5 — ARCH BASE/ CONNECTOR DETAIL

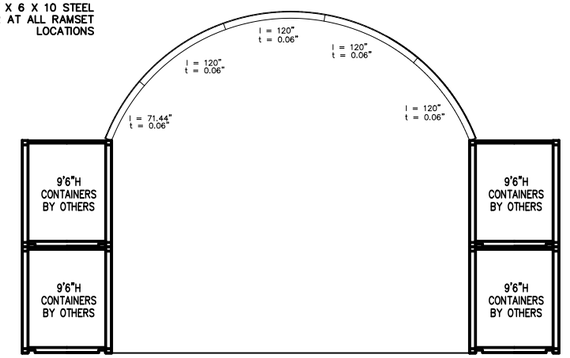
4 — ARCH BASE/ CONNECTOR DETAIL



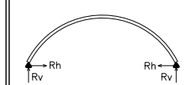
6 — ARCH BASE/ CONNECTOR DETAIL



9 — CONTAINER CONNECTION DETAIL

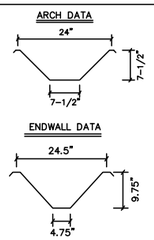


8 — SIDE ELEVATION



SPECIFIED ARCH REACTIONS PER ARCH END		
LOAD TYPE	Rh (lbs/ft)	Rv (lbs/ft)
DEAD LOAD	102	173
LIVE LOAD	234	347
SNOW LOAD	654	1052
EXTERNAL WIND	-137	-284
INTERNAL WIND PRESSURE	-95	-248

NOTES:
1. STEEL CONTAINER BY OTHERS
2. ADEQUACY OF CONTAINERS TO SUPPORT ANCHORAGE IS BY OTHERS AND TO INCLUDE BUT NOT LIMITED TO
   - SUPPLY / INSTALL OF ADDITIONAL PLATES
   - SUPPLY / INSTALL OF ANY STIFFENERS



BOLTS: SAE GRADE 2 OR ASTM A307
FRONT ENDWALL STEEL THICKNESS = 1.27mm
REAR ENDWALL STEEL THICKNESS = 1.02mm
ARCH STEEL THICKNESS – SEE ARCH PROFILE

GALVALUME SHEET STEEL:
STRUCTURAL QUALITY ASTM SPECIFICATION A792M
55% ALUMINUM-ZINC ALLOY (HOT DIP COATING)
345 MPa MINIMUM YIELD
450 MPa MINIMUM TENSILE
OTHER SECTIONS SHALL CONFORM TO:
ASTM A36 (Fy = 250 MPa)

ARCH DESIGN DATA IN ACCORDANCE WITH NBC 2015:
L: LIVE LOAD (kPa) = 1.0
Ss: GROUND SNOW (kPa) = 3.4
Cb: ROOF SNOW FACTOR = 0.80
Cw: WIND EXPOSURE FACTOR = 1.0
Cs: SLOPE FACTOR = 1.0
Sr: RAIN LOAD (kPa) = 0.2
IMPORTANCE FACTOR (SNOW) = 1.0
p: WIND EXTERNAL PRESSURE (kPa) = 0.51
q: VELOCITY PRESSURE (1/50) (kPa) = 0.54
Ce: WIND EXPOSURE FACTOR = 0.95
Cg: GUST EFFECT FACTOR = 2.0
Sa (0.2): HORIZONTAL SPECTRAL ACCELERATION = 0.068

ENGINEERS SEAL:

REGISTERED PROFESSIONAL ENGINEER
B.A. DEVITT
LICENSEE
NT/NU

June 7, 2021

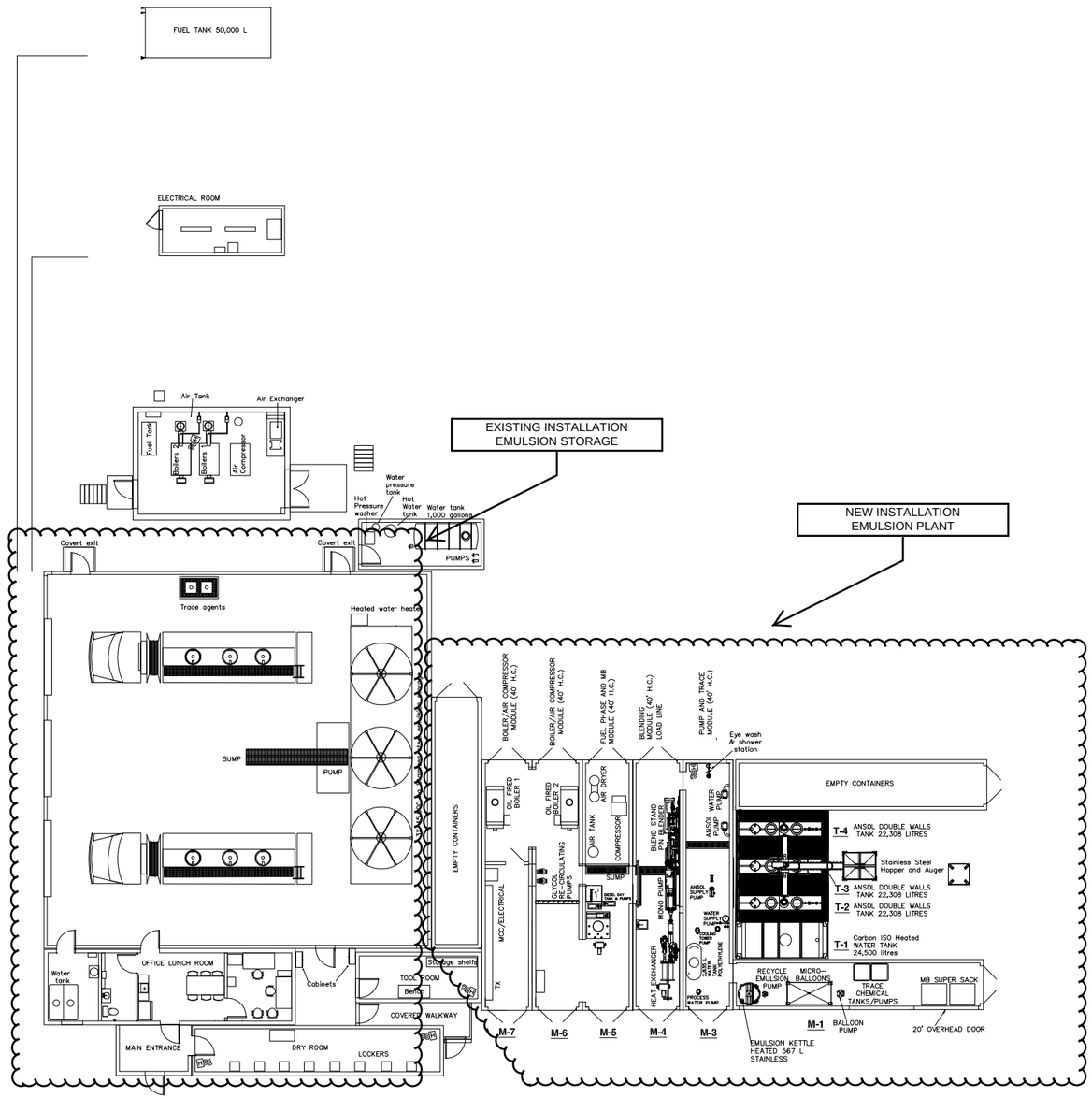
ANCHORAGE OF ARCH BUILDING
TO STEEL SHIPPING CONTAINERS

SCALE: N.T.S.	APPROVED BY:	CHECKED BY:	DATE: MAY 18TH, 2021

PROJECT:
TYLER WILLIAMS
MEADOWBANK AERODROME, NU

MODEL:

DWG: TTE-0521-048-FST-26



REFERENCE DRAWINGS		REFERENCE DRAWINGS	
DWG. NO.	DESCRIPTION	DWG. NO.	DESCRIPTION

REVISIONS												REVISIONS		
No.	BY	DATE	DESCRIPTION	CHK'D.	APP'D.	No.	BY	DATE	DESCRIPTION	CHK'D.	APP'D.
						1	SMT	2021-10-21	ISSUED FOR REVIEW		
								2021/10/21	Add Emulsion tank RU	PSTG	

DYNO Dyno Nobel

SITE PLAN

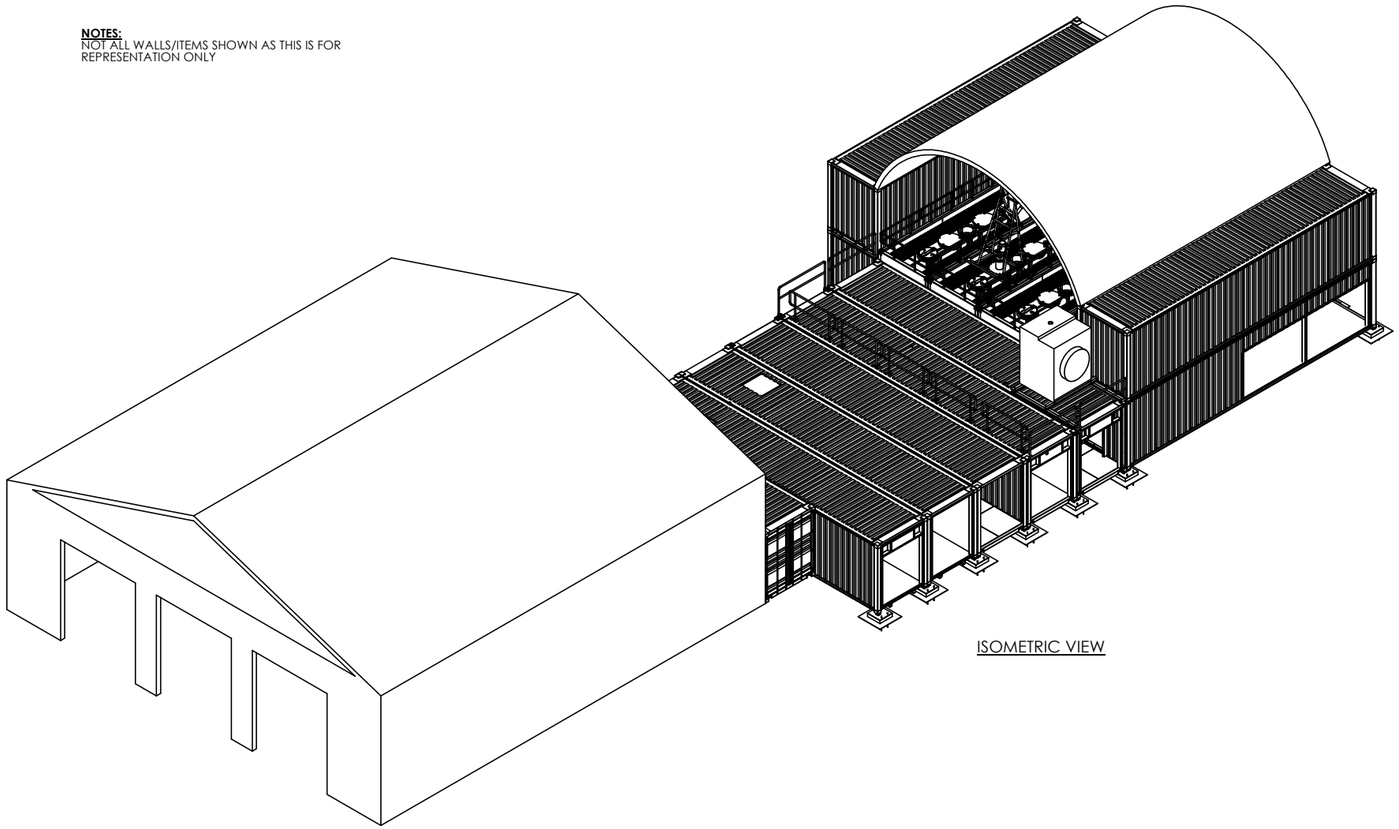
DYNO NOBEL CANADA INC
AMARUQ EMULSION PLANT

PLANT No.	SCALE	S.F.	DRAWN	CHK'D	APP'D	DATE
F102101	N.T.S.	1:1	SMB			2021-10-21

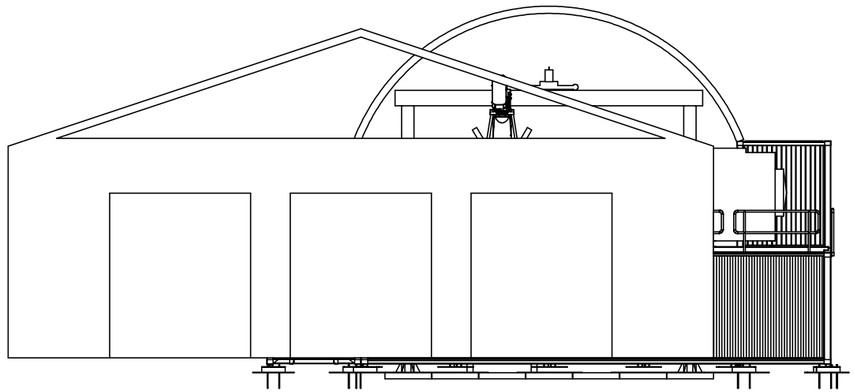
DYNO NOBEL CDN INC.
3665 Boul. de la Grande Allée
Boisbriand QC. J7H 1H5
Phone: (613) 677-1051

DRAWING No. | REV.

NOTES:
NOT ALL WALLS/ITEMS SHOWN AS THIS IS FOR REPRESENTATION ONLY



ISOMETRIC VIEW



RIGHT VIEW

SHEET 3 OF 3

FOR CONSTRUCTION

REFERENCE DRAWINGS		REFERENCE DRAWINGS	
DWG. NO.	DESCRIPTION	DWG. NO.	DESCRIPTION

REVISIONS					
No.	BY	DATE	DESCRIPTION	CHK'D.	APP'D.

REVISIONS					
No.	BY	DATE	DESCRIPTION	CHK'D.	APP'D.
1	SMT	02/22/2021	ISSUED FOR CONSTRUCTION		
2	SMT	06/22/2021	GENERAL UPDATE		

DYNO Dyno Nobel

GENERAL ARRANGEMENT PLANT LAYOUT

DYNO NOBEL

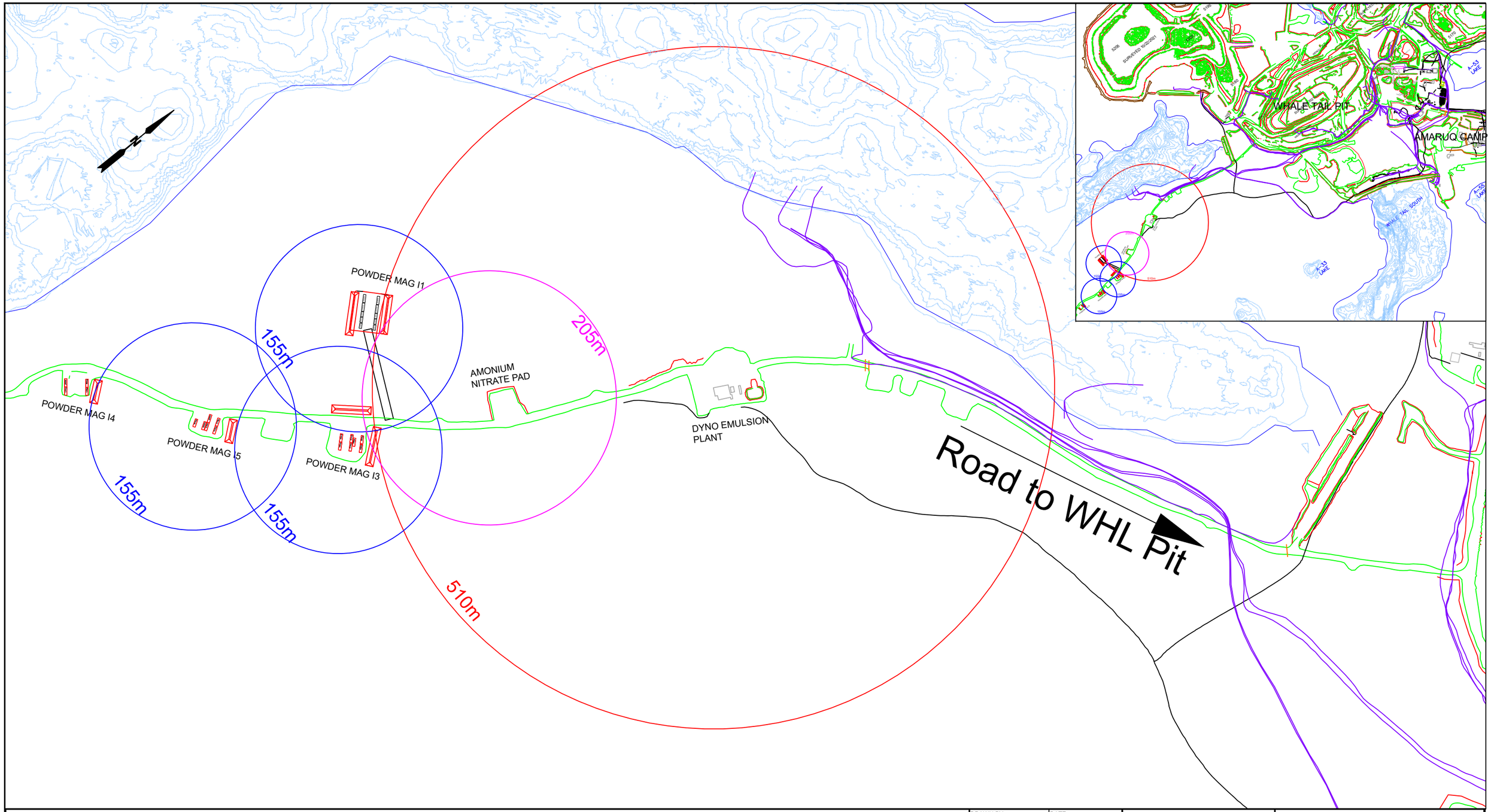
AMARUQ EMULSION PLANT

COMM No.	SCALE	S.F.	DRAWN	CHK'D	APP'D	DATE
	N.T.S.	–	SMT			02/22/2021

DYNO NOBEL INC.
3000 West 8600 South
West Jordan, Utah 84088 USA
Phone: (801) 364-4800

REV. 2

DRAWING No. AMNU01-C101-001-1



DRAWN BY	DATE	AGNICO EAGLE MEADOWBANK	MEADOWBANK DIVISION ENGINEERING Ammaruq Site Map **Emulsion plant Q-D**
SURVEY CHECK	DATE		
GEOLOGY CHECK	DATE		
ENGINEERING CHECK	DATE		
MODIFIED BY	DATE		
ENGINEERING APPROVAL	DATE		SCALE N.T.S. / DATE 29/11/2021 / FILE .DWG

36'-11 1/16"
29'-0"
11'-11 11/16"
B D1
C-CONTAINER (BY OTHERS)
0.00 (0,0,0)
27'-10 5/8"
24'-8"
13'-8"
-1.9%
-8.2%
0.0%
-2.0%
5'-10"
2'-0"
-8.1%
0.00
2'-0" MIN AT 1% SLOPE
1'-0" X 1'-0" SUMP -0.76
11'-0"
-2:1 SLOPE TO 0 ELEVATION
-0.48
-0.58
1'-0"
-0.56
D D1
ANCHOR TRENCH
C D1
(10) 5'-6" X 5'-6" STEEL FOUNDATION PLATE (BY OTHERS) (ELEV: 0.00 @ TOP OF PLATE)
CRANE FOUNDATION
HOPPER FOUNDATION. SIZING TBD
C-CONTAINER (BY OTHERS)
A D1

MEMBRANE ANCHOR TRENCH
STRUCTURAL FILL BERM/ANCHOR TRENCH
MEMBRANE EXTENTS
TAPER MEMBRANE TO PLATE ELEVATION

VOLUME OF EXCAVATION = 3.39 CY
VOLUME OF ANCHOR TRENCH = 4.14 CY
MEMBRANE SURFACE AREA = 220 SY
STRUCTURAL FILL BERM VOLUME = 0.20 CY

SCALE 0 2 4
HORIZ: 1" = 2 : : 22X34
1" = 4 : : 11X17

REV NO.	COMMENT	DATE
E	GRADING CLARIFICATIONS	6/9/21
D	UPDATED TO LOWER PLATE BOUNDARY	5/20/21
C	GRADING OPTION WITH DETAILS	5/11/21
B	TWO OPTIONS FOR REVIEW	4/30/21
A	PRELIMINARY GRADING	4/29/21

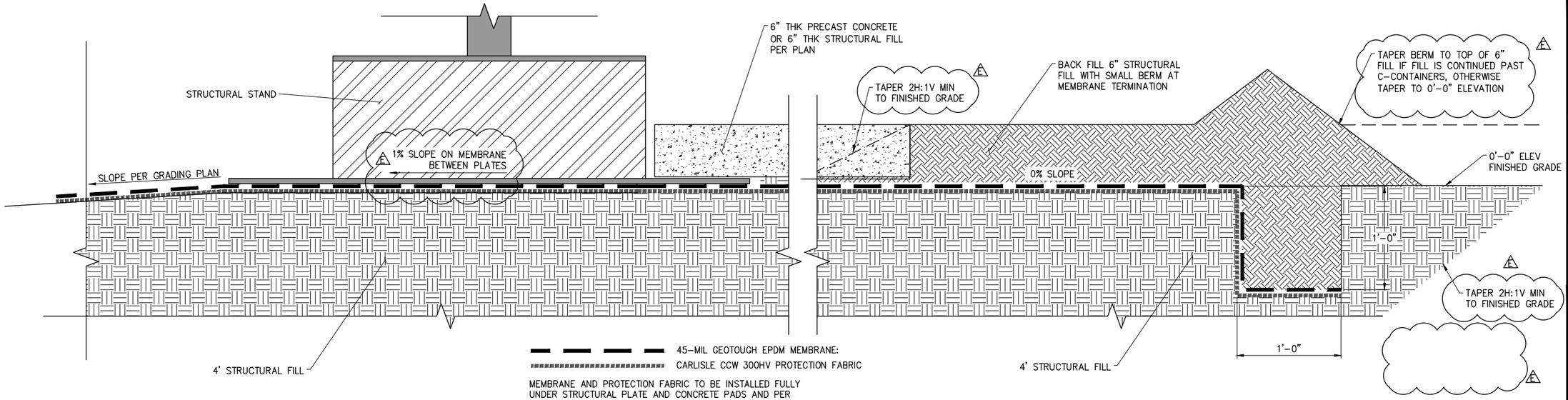
SUNRISE ENGINEERING
6875 SOUTH 900 EAST
SALT LAKE CITY, UTAH 84047
TEL 801.523.0100 • FAX 801.523.0990
www.sunrise-eng.com

PRELIMINARY NOT FOR CONSTRUCTION DATE

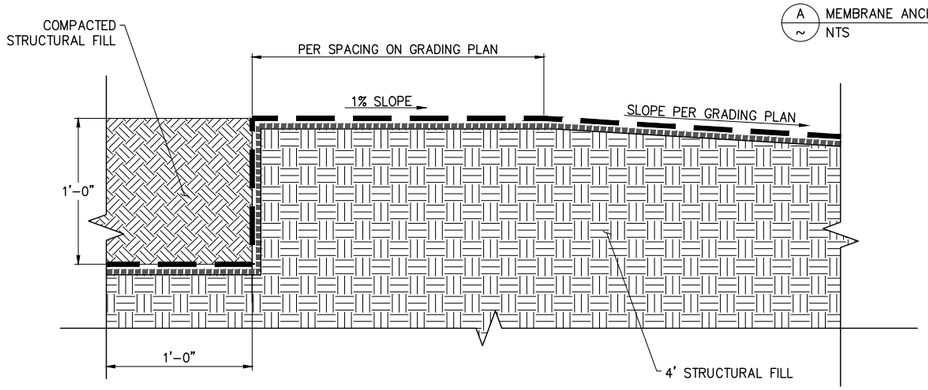
DYNO NOBEL
AMARUQ CONTAINMENT GRADING
GRADING PLAN

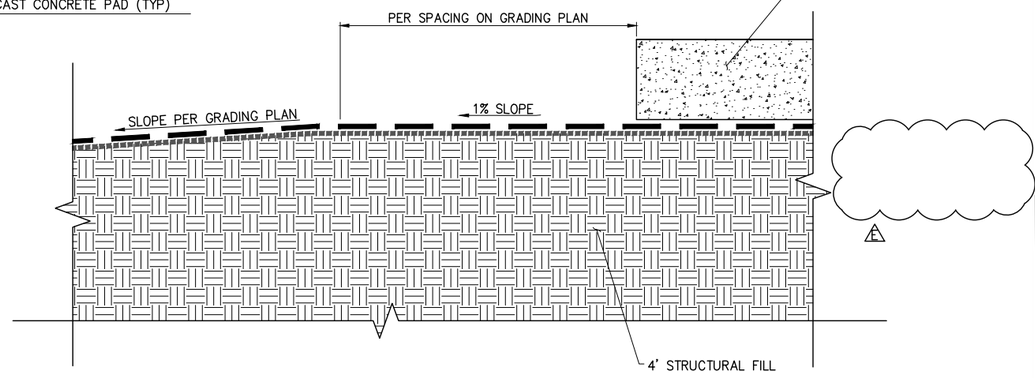
SEI NO. S08021 | DESIGNED NC | DRAWN JH | CHECKED SH | SHEET NO. 001 002 | GP

P:\Dyno Nobel\Civil 3D\Grading Plan WORKING 4.dwg Jun 09, 2021 11:19am nchristensen



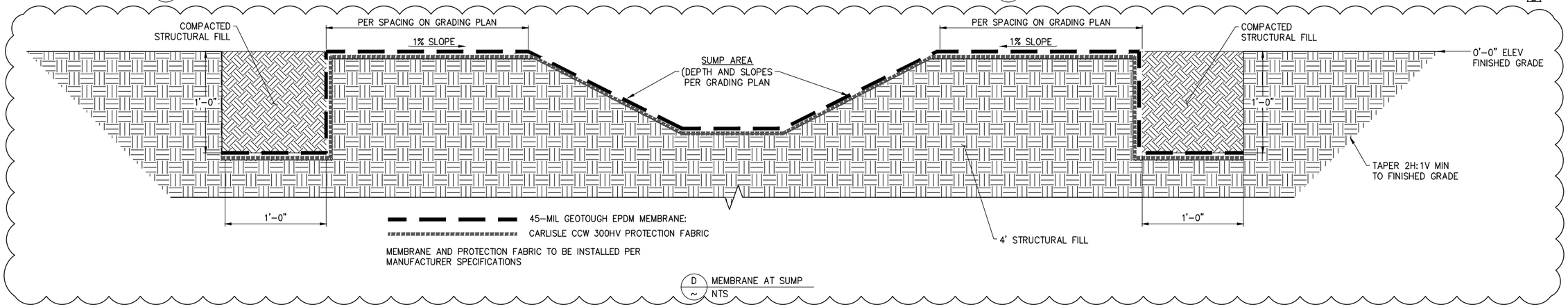
A MEMBRANE ANCHOR AT STRUCTURAL STAND NEXT TO PRECAST CONCRETE PAD (TYP)
~ NTS





B MEMBRANE AT EARTHEN TIE-IN (TYP)
~ NTS

C MEMBRANE ANCHOR AT EDGE OF PRECAST CONCRETE PAD (TYP)
~ NTS



D MEMBRANE AT SUMP
~ NTS

REV NO.	COMMENT	DATE
E	GRADING CLARIFICATIONS	6/9/21
D	UPDATED TO LOWER PLATE BOUNDARY	5/20/21
C	GRADING OPTION WITH DETAILS	5/11/21
B	TWO OPTIONS FOR REVIEW	4/30/21
A	PRELIMINARY GRADING	4/29/21

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www.sunrise-eng.com

PRELIMINARY NOT FOR CONSTRUCTION DATE

DYNO NOBEL
AMARUQ CONTAINMENT GRADING
DETAILS

SEI NO.	DESIGNED	DRAWN	CHECKED	SHEET NO.	D1
S08121	NC	JH	SH	002	

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