

MEADOWBANK COMPLEX

WHALE TAIL MINE - COMPOSTER

CONSTRUCTION SUMMARY REPORT MEADOWBANK COMPLEX

Submitted by:
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April 29, 2025

PERM	IT TO	PRA	CTICE	
STEENHOF	MINI	VG SE	RVICES	INC.

Date 29/04/2025

PERMIT NUMBER: P 1764

NT/NU Association of Professional Engineers and Geoscientists



Approved by:

Peter Ernst Koppisch, P.Eng. NAPEG Member #L5974

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EXECUTIVE SUMMARY

As required by Part D Item 16 of the 2AM-WTP1830 Water License, the following report will describe the construction activities completed to build the pad, building and operational components of the Composter System at the Whale Tail Mine. The Composter Building consists of a Brome Composting process, which includes a large mixer to blend cardboard and all organic food wastes generated from the Main Camp. This process aerates a mixed blend of cardboard and organic wastes into a controlled composting process. The resulting material is benign, and free of harmful pathogens and bacteria. Agnico Eagle will operate the composter as per the approved Whale Tail Incinerator and Composter Waste Management Plan.



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DOCUMENT CONTROL

Date	Revised Section	Revision
04/30/2025	0	For Submission

AGNICO EAGLE

CONSTRUCTION SUMMARY REPORT

Composter

April 29, 2025

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Section 1 INTRODUCTION

Agnico Eagle Mines Management of Change (MOC) Construction Team has completed the construction of the Composter System & Building at the Agnico Eagle Meadowbank Complex. The purpose of the composter process is to manage the food waste generated in the Whale Tail site in an environmentally conscious way.

This report details the construction process completed. It includes the location of buildings, layout, any changes made to the original design, and field decisions and mitigations necessary to complete the project. It includes all the as-built drawings and the Quality Assurance and Quality Control measures taken to comply with the 2AM-WTP1830 Water License.

Section 2 PROJECT DESCRIPTION SUMMARY

2.1 SITE LOCATION AND ACCESS

Agnico Eagle Mine Limited (AEM) Meadowbank Complex has developed the Composter Building and process at the Whale Tail Mine. The Composter Building and process was constructed on the existing pad that was previously used by the construction team to store their material. Refer to Figure 1 below.



Figure 1: Composter Building Pad Location

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2.2 DESIGN BASIS

Engineering of the composter system was performed by Steenhof Building Services Group and is described in detail in the 220590 C1526 Composter Design Report document. The composter unit installed is the same as detailed out in the Design Report.

Section 3 CONSTRUCTION SUMMARY – ACTIVITIES AND SCHEDULE

3.1 ROLES AND RESPONSIBILITIES

The Engineering Design and Construction Drawings for the Pad were prepared by Steenhof Building Services in consultation with the Energy & Infrastructure department of the Meadowbank Complex of Agnico Eagles Mines Ltd. The Energy & Infrastructure Department of the Meadowbank Complex was mandated to execute and supervise the work. The Management Of Change Supervisors & Leaders were the main point of contacts between the stakeholders of the project. They were also responsible for the Quality Assurance (QA) to ensure the Pad was built as per construction drawings.

Responsibility **Key Personnel** Company Role Position Project Steven Tremblay MOC General Management Supervisor QA/QC during Gaetan Martel **MOC Supervisor** construction **AEM** Owner As-Built drawings Gaetan Martel & Supervisor & & and site Roch Lapierre Surveyors surveying Supervision Gaetan Martel, Supervisors during Chad Millette, Kevin Malouin construction **SBSG** Engineering Construction & Peter Koppisch & Engineers Jacob Steenhof As-Built drawings

Table 1: List of Roles and Responsibilities

3.2 Project Schedule and Construction Steps

The major steps of the construction process for the base of the composter are listed below. The project was completed in full on January 15, 2025.

- 1. June 2023: Conducted a survey to determine the position of the digging area down to the bedrock.
- 2. July 2023: Excavated and removed all material until reaching the bedrock, approximately 6 feet deep.
- 3. July 2023: Placed and compacted 0–3/4" gravel to level the ground.
- 4. August 2023: Surveyed and marked the ground for jersey installation.

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- 5. August 2023: Installed all jersey footings according to the construction drawings.
- 6. August 2023: Filled the inside area of the jersey square with 1-foot layers of compacted 0–3/4" gravel, continuing until the level reached 6" below the top of the jersey.
- 7. August 2023: Added a 1-foot-wide layer of gravel around the outside of the jersey footing to prevent movement.
- 8. August 2023: Installed 4" x 3" insulation sheets along the outside of the jersey walls.
- 9. August 2023: Installed ground cable around the perimeter at the bottom of the trench outside the jersey.
- 10. August 2023: Completed the outside fill with compacted gravel up to 6" below the top of the jersey.
- 11. September 2023: Installed 4" Styrofoam sheets on the floor inside the future building and taped them together.
- 12. September 2023: Measured and marked the center along the long side of the interior pad to locate and install the concrete trench and supports.
- 13. September 2023: Began installing corner concrete slabs end to end and welded them to the jersey tubing.
- 14. September 2023: Continued installing the concrete slabs one by one, welding each piece together as the installation progressed. Throughout the process, used a laser level to ensure everything remained level.
- 15. September 2023: While following all steps from the Honco installation manual erected the back wall & the first two sections of the side walls before winter. Secured the walls with straps to ensure no damages during winter period.
- 16. September 2023 May 2024: Project was on Hold.
- 17. June August 2024: Finished the erection of the full Honco Building. Digging of trench and installation of main electrical cable was completed.
- 18. September 2024: Installed all services (Electrical/Mechanical/Plumbing) for the building.
- 19. October 2024: Commissioning of all systems for the building.

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- 20. November December 2024: Installation of composter system with visit from Brome Compost Vendor.
- 21. January 15th 2025: Commissioning and QA/QC visits completed with Health & Safety (H&S) & Energy & Infrastructure (E&I) Department.

3.3 QUALITY CONTROL AND QUALITY ASSURANCE

QA / QC control on the field was implemented by Agnico Eagle construction personnel dedicated to the construction of the Composter building & systems. All construction discrepancies were taken care of and corrected according to the appropriate measures, as the work progressed (see details in the Field Decisions and Mitigation Measures section). This document also serves as the final quality assurance check and includes all the necessary information to confirm that the project was completed successfully and in compliance with all relevant guidelines and regulations.

To comply with Critical Infrastructure Protection regulations, Agnico Eagle performed checks on existing buried infrastructure in drawing database prior to proceeding with excavation. Digging permits were received prior to any excavation.

The materials used to construct the base of the composter were chosen to avoid any possibility of harmful release from the construction site. Non-potentially acid generating (NAG) and non-metal leaching (NML) waste rock extracted from adjacent Whale Tail and IVR pits was used.

Supervisors actively verified the installation of the systems with the vendor documentation and the approved engineered drawings.

Brome composting Personnel were on site during the construction of the composter system to ensure all was installed as per manufacturer requirements.

During the commissioning of the system site visits were completed with Health & Safety and Energy & Infrastructure departments to ensure that all systems were safe and ready to operate.

3.4 DESIGN CHANGES

Deviation from the original design drawings were implemented during construction:

- Pad dimensions were reduced to 15m x 25m instead of the planned 30m x 30m.
- Pad required more fill then planned due to depth of bed rock. 330 cubic meters was required vs the 310 cubic meters planned.
- Fuel furnace was installed instead of the used oil furnace.
- No washroom installed in the building.
- Platform with stairs was added between composter and crusher.
- Added chimney to outside with exhaust fan inside building.
- Electrical room was moved to the back wall of the building.
- Added railings around composter rotation drum.



The above modifications are not expected to impact the performance of the facility.

3.5 FIELD DECISIONS AND MITIGATION MEASURES

• Not Applicable

3.6 LIST OF EQUIPMENT USED

Table 2 shows the different equipment used for this project.

Table 2: List of Equipment Used

Equipment	Manufacturer	Model
Compactor	Caterpillar	CS-76XT
Haul Truck	Caterpillar	785
Excavator	Caterpillar	345
Loader	Caterpillar	966
Zoom Boom	Genie	GTH-844
Manlift	Genie	85
Crane	Boom Truck	35 ton

3.7 DESIGN PARAMETERS COMPARISON

Table 3 compares the critical values predicted during the design phase to the same values in the final asbuilt construction. The after-construction values were measured based on the amount of material deposited or from the as-built drawings in Appendix B.

Table 3: List of Design and After Construction Parameters

Parameter	Design Value	Actual Value	
Volume of fill	310 cubic meters	330 cubic meters	
Building dimensions	12m x 18m	12m x 18m	
Pad dimensions	30m x 30m	15m X 25m	

3.8 CONSTRUCTION AND AS-BUILT DRAWINGS AND PICTURES

The construction drawings are available in Appendix A. Final as-built drawings can be found in Appendix B. Images of the construction process and completed installation can be found in Appendix C.

3.9 MONITORING UNDERTAKEN IN COMPLIANCE WITH PART D OF THE LICENCE

No monitoring was required during construction.

3.9.1 BLAST VIBRATION MONITORING FOR QUARRYING ACTIVITIES CARRIED OUT NEAR FISH-BEARING WATERS

Not Applicable to this project.

3.9.2 MONITORING FOR SEDIMENT RELEASE FROM CONSTRUCTION AREAS



No sediment control was required for this project.

3.9.3 Monitoring and Reporting on Use of Water to Manage Dust Emissions from Crushing and Construction Activity

Not Applicable to this project.

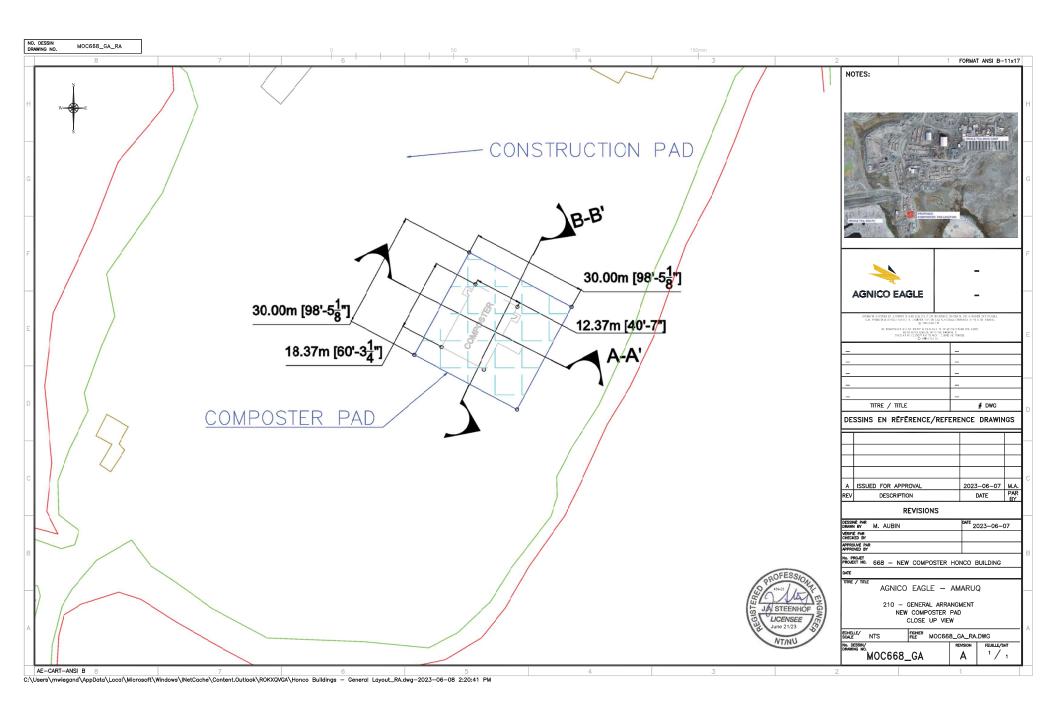
Section 4 LIST OF DRAWINGS

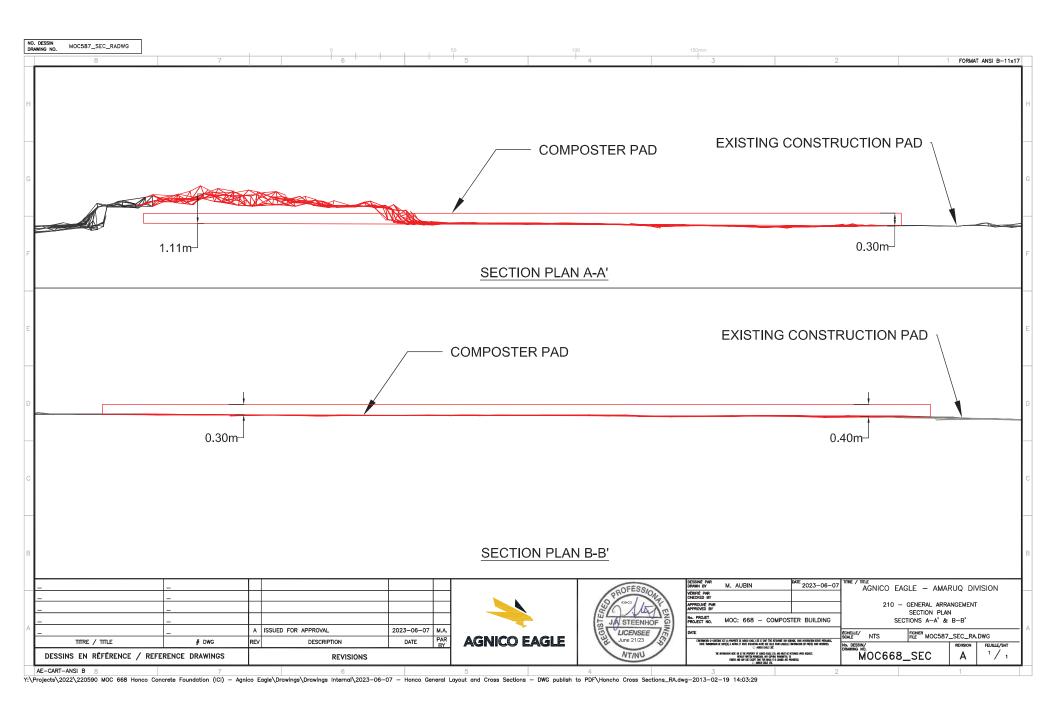
Table 4: List of Drawings and Changes

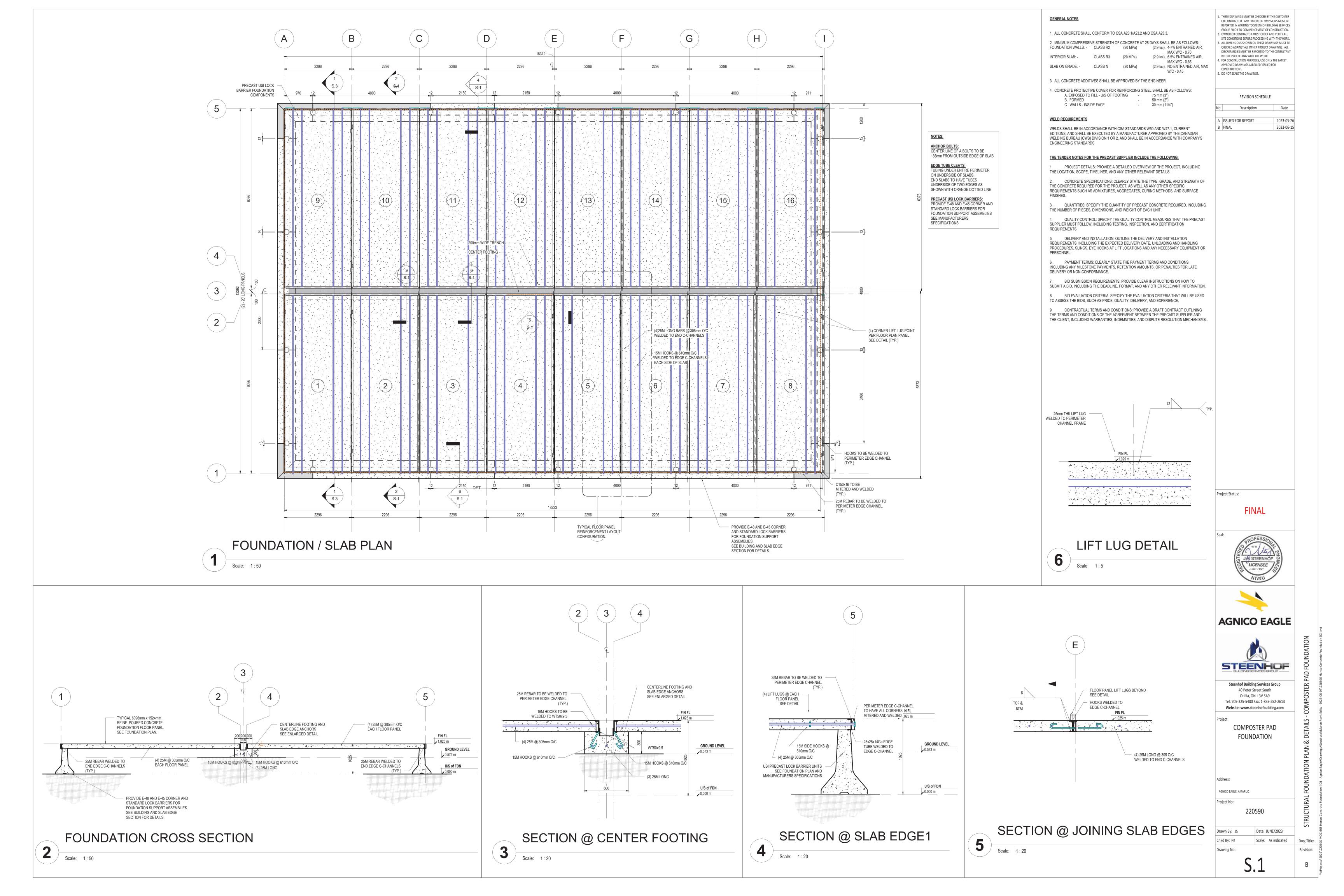
Submitted Construction Drawings		As-Built Update – 04/15		
Drawing Number	Description	Drawing Number	Update Comments	
MOC668_GA_RA	General Arrangement New Composter Pad Close Up View	61-428-230-001_R0	Updated the pad size to match what was installed & relocated the composter to the surveyed coordinates	
MOC668_SEC_RA	General Arrangement Section Plan Sections A-A' & B-B'	61-428-230-002_R0	Updated the pad size to match what was installed & relocated the composter to the surveyed coordinates	
S.1_RB	Structural Foundation Plan & Details - Composter Foundation	S.1_RB	No updates needed nothing changed from RB design	
S.2_RB	Foundation Structure Isometric - Composter Foundation	S.2_RB	No updates needed nothing changed from RB design	
S.3_RB	Jersey Barrier Backfill Details – Composer Background	S.3_RB	No updates needed nothing changed from RB design	
S.102_RD	Building Plan Over Concrete Slab	61-428-210-001_R0	Updated the internal layout to match the as built of installation, nothing changed on the building exterior	

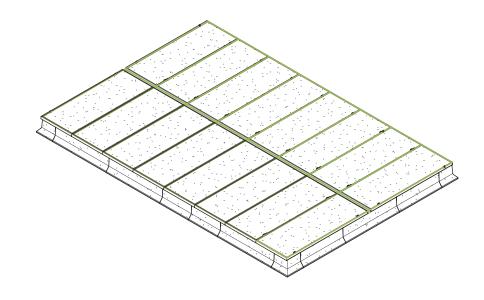
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APPENDIX A – CONSTRUCTION DRAWINGS





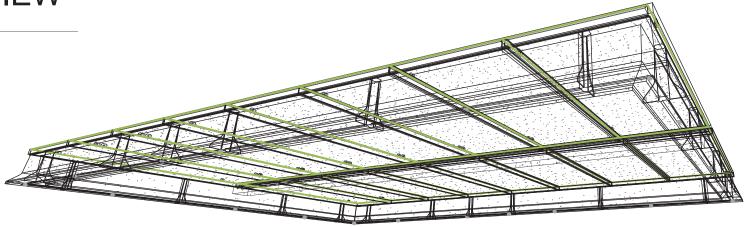




FDN STRUCTURE - ISOMETRIC VIEW

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FDN STRUCTURE REINFORCING - ISOMETRIC VIEW

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	Revision Schedule		Project Status:
No.	Description	Date	FINAL
Α	ISSUED FOR REPORT	2023-05-26	Don't and Man
В	FINAL	2023-06-15	Project No:
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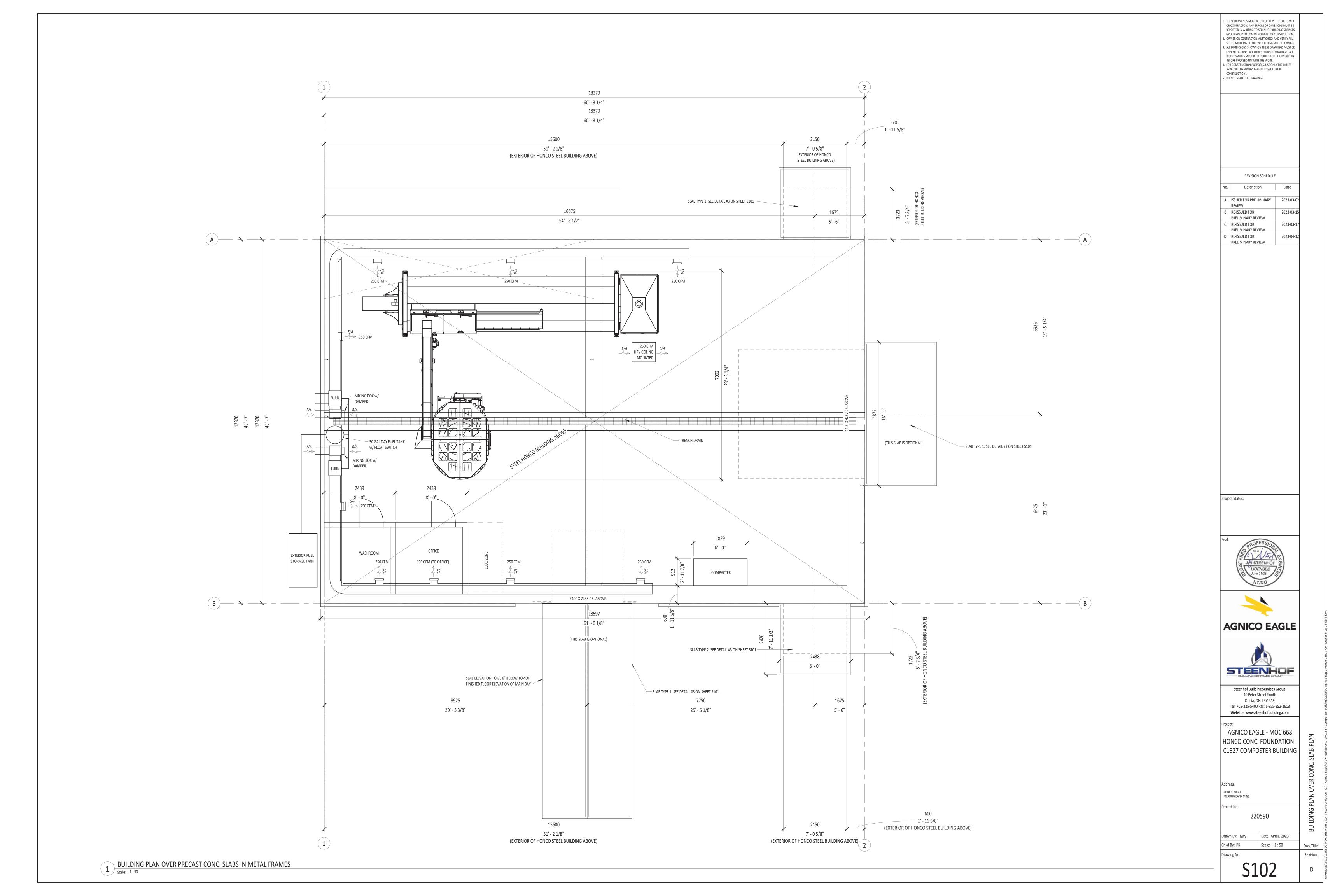
Revision Schedule			Project Status:	
No.	Description	Date		FINAL
Α	ISSUED FOR REPORT	2023-05-26	D : N	
В	FINAL	2023-06-15	Project No:	
				220590

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Chkd By: PK	Scale: 1:50	Dwg Title:
Drawing No.:		Revision:
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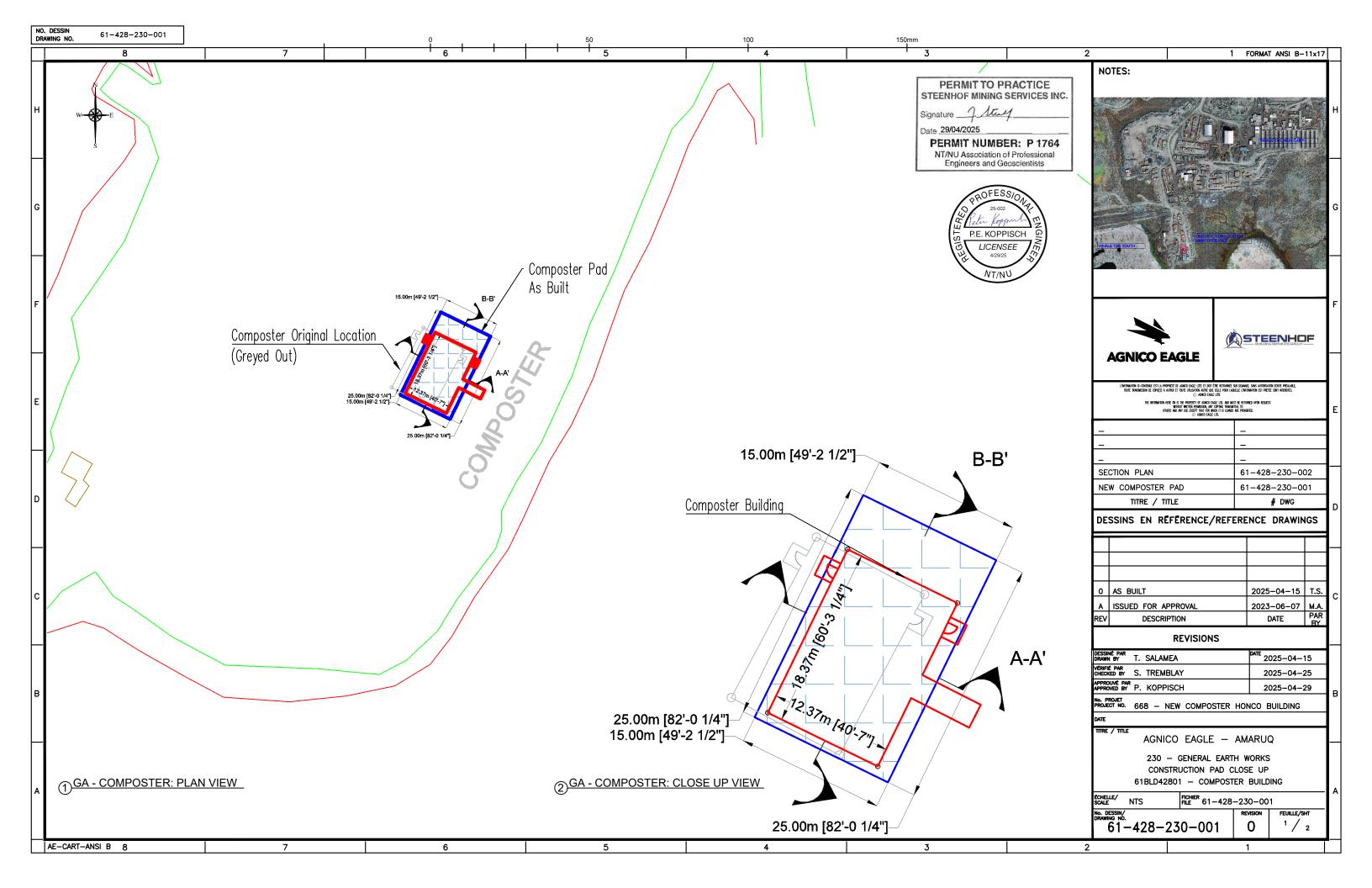
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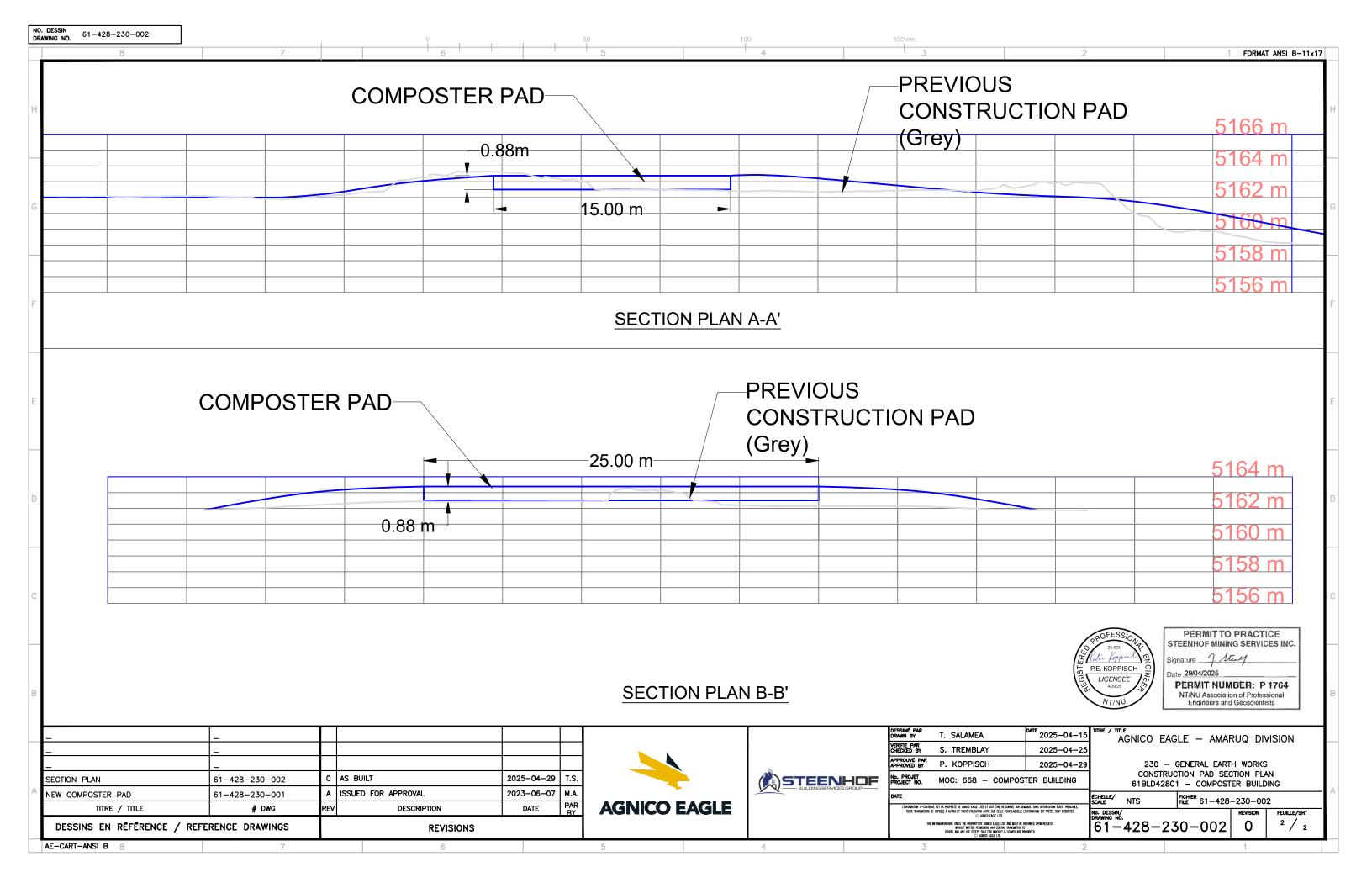
BARRIER BACKFILL DETAILS

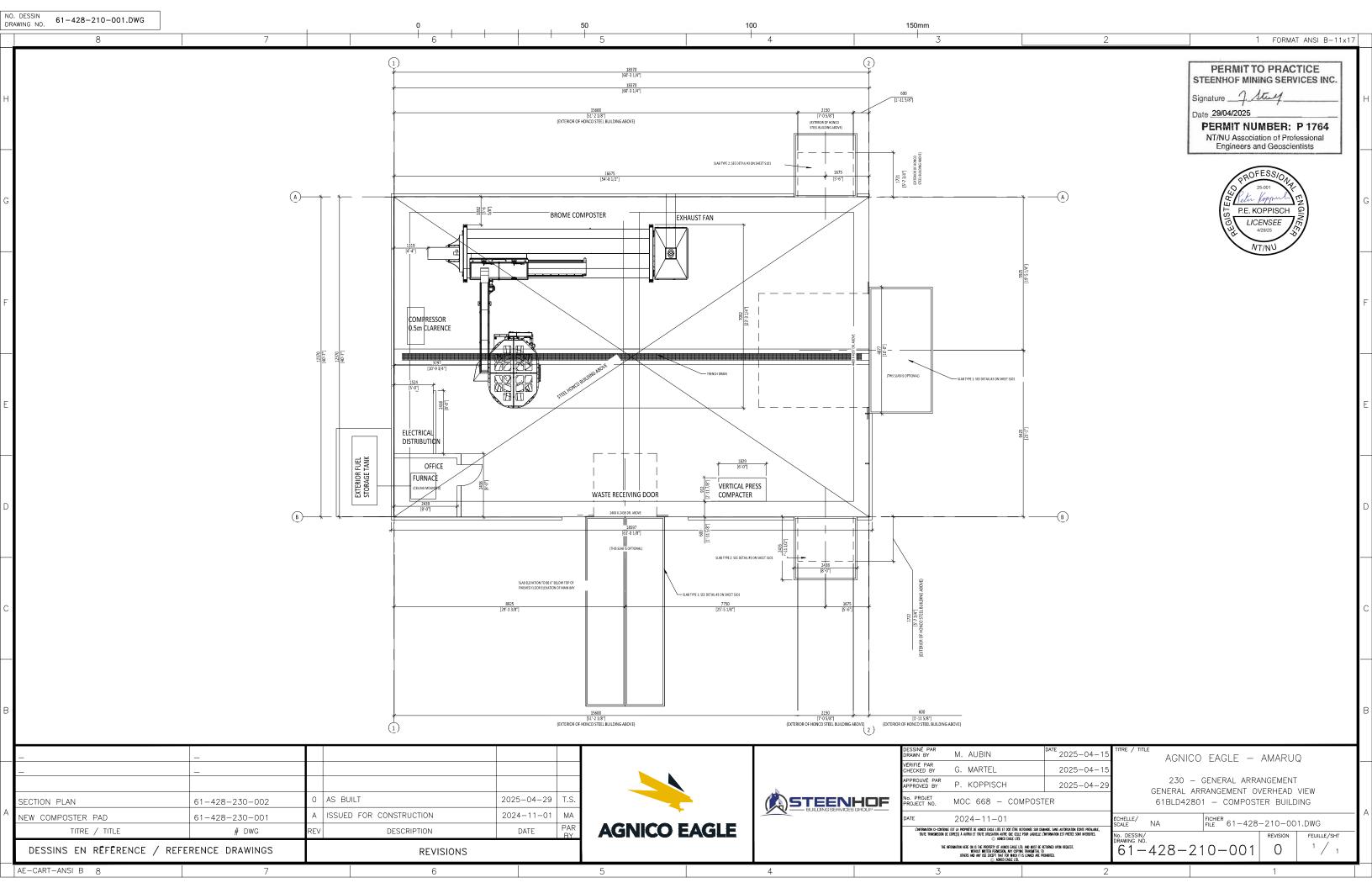


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 $APPENDIX\ B-As\text{-}B\text{-}ILT\ DRAWING$









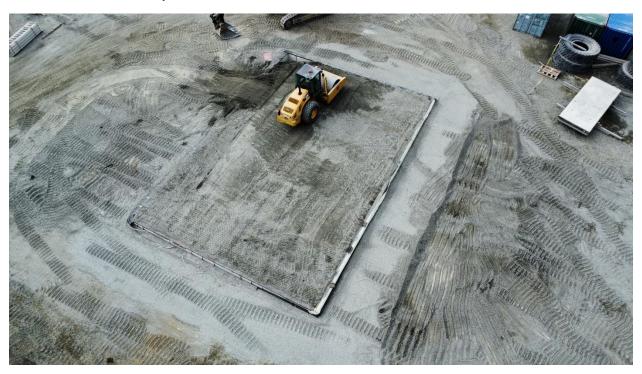
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APPENDIX C – CONSTRUCTION PHOTOGRAPHS

Pad Construction June/July 2023:



Restarting Project June 2024:





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50% completion of the Honco Building July 2024:



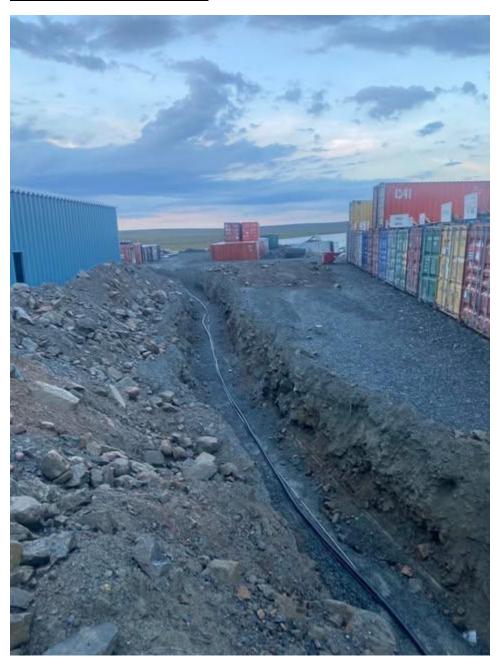




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Trench for Main Electrical Cable:





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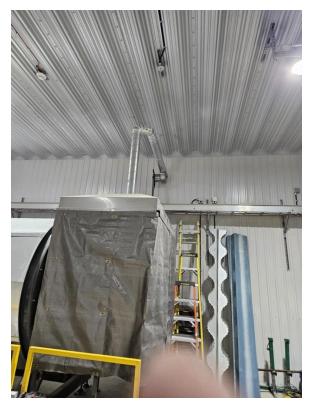
<u>Inside Pictures – 100% Completed:</u>





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Outdoor Pictures – 100% Completed:



