



GRETCHEN WHITMER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY
LANSING



PHILLIP D. ROOS
DIRECTOR

February 1, 2024

VIA EMAIL

Gregory Hunt
G. A. Hunt Septic Service, LLC
1220 East Taft Road
St. Johns, Michigan 48879

Dear Gregory Hunt:

SUBJECT: Septage Waste Receiving Facility Operating Plan Approval
G.A. Hunt

The Michigan Department of Environment, Great Lakes, and Energy (EGLE), Drinking Water and Environmental Health Division (DWEHD), Septage Program, has completed review of the plans and specifications submitted through January 8, 2024, for the G.A. Hunt Septage Waste Receiving Facility, located on US-27 and Parks Road, in St. Johns, Michigan. The operating plan is approved and meets the requirements outlined in Section 11715b of Part 117, Septage Waste Servicers, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended.

The receiving facility must operate in accordance with the approved plan. If a change in operations or conditions is anticipated, please file an amendment to the plan at least thirty (30) days prior to the proposed date for implementation.

If the receiving facility is regularly unable to accept and treat the septage generated from within its service area due to capacity issues, contact our office to discuss options.

Thank you for your continued environmental stewardship and service to those with onsite wastewater systems in and around your community. If you have any questions regarding this matter, please contact Greg Merricle, Septage Program Coordinator, DWEHD, by telephone at 517-256-6953; email at MerricleG@Michigan.gov; or you may contact either of us by mail at EGLE-DWEHD-EHPU-Septage, P.O. Box 30817, Lansing, Michigan 48909-8311.

Sincerely,

Jeremy W. Hoeh, P.E., Supervisor
Environmental Health Programs Unit
Drinking Water and Environmental Health Division

cc: Therese Wheaton, Crystal Environmental
Lonnie Smith, Mid-Michigan District Health Department
Laura Matthews, EGLE
Greg Merricle, EGLE

January 2, 2024

Mr. Gregory Hunt
GA Hunt Septic Services
1220 E. Taft Road
St. Johns, MI 48879

RE: New Sewage Treatment Facility
3180 South Business Route 127
St. Johns, MI 48879

Mr. Hunt,

We have reviewed the final construction of the GA Hunt Treatment Facility located at 3180 South Business Route 127 in St. Johns, it appears that it has been constructed as shown on the prepared construction documents and associated Bulletin's 1, 2 and 3.

Therefore, this project is completed once all final closeout documents, permits and final inspections are received.

If you have any questions, please feel free to contact our office.

Sincerely,

Kenneth L. Jones, II, AIA, NCARB
Principal / President



January 2, 2024

Studio Intrigue Architects
1114 S. Washington
Lansing, MI 48910

Attn: Matthew Nelson
Project Manager

Re: GA Hunt
Treatment Facility
St. Johns, Michigan
EAI Project #2228

Gentlemen:

We have reviewed the final installation of the Mechanical and Electrical Systems for the new GA Hunt Treatment Facility located at 3180 South Business Route 27, St. Johns, MI 48879. All systems are functioning as designed per the drawings and specifications dated 3-2-2023 and amended through Bulletin #3.

Therefore this project is completed, once all final closeout documents, permits, and final inspections are received.

If you have any questions, please contact me.

Sincerely,



Brian A. Knox, PE
Project Engineer



CC: Gregory Hunt
David Laux



Crystal Environmental

February 8, 2023

SEPTAGE RECEIVING FACILITY OPERATING PLAN

FACILITY LOCATION: Gregory Hunt, LLC
Parks Road & Route 127

MAILING ADDRESS: Gregory Hunt, LLC
1220 East Taft Road
St. Johns, MI 48879

COUNTY: Clinton

FACILITY CONTACT: Gregory Hunt
(C) 517-204-5071
(O) 989-227-1222

HOURS OF OPERATION: 8:00 am to 5:00 pm
(or by appointment)

CATEGORIES OF
SEPTAGE WASTE ACCEPTED: Residential septic, portable toilet,
domestic holding tank, food
establishment septage.

FEE STRUCTURE:	Residential septic	12¢ / Gallon
	Portable Toilet	12¢ / Gallon
	Domestic Holding Tanks	12¢ / Gallon
	Food Establishment	20¢ / Gallon

SERVICE AREA: Not Mandatory for the 25 Radial miles from
the location.
Septage and liquid waste will also be received
from anywhere the septage is generated
provided there is capacity to process the
septage based upon agreements with
selected septage hauling companies.

NOTICE OF PROPOSED OPERATIONS PLAN:

RECEIVING FACILITY CAPACITY:

25,000 Gallons/Day for receiving/hydraulic capacity

Organic Capacity – The Process is expected to produce a liquid waste that complies with the expected discharge limitations of the City of St. John's Industrial Pre-treatment Plant Permit. The solids will be disposed of at a licensed landfill. These permits are being submitted concurrently with this application.

Wet weather conditions and spill containment are easily accounted for since our influent is a function liquid waste acceptance. Spills are easily managed through the floor drains and pumper trucks as required.

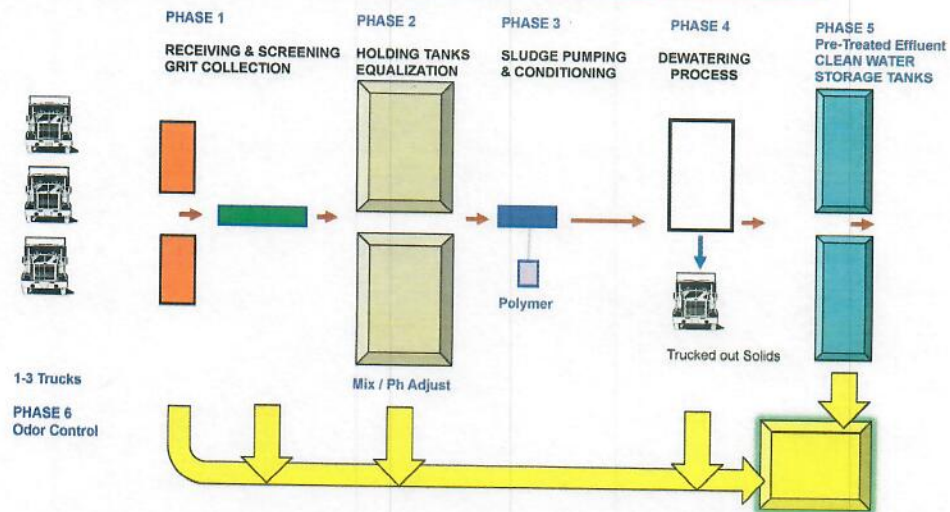
IN SUMMARY:

The purpose of these documents is to provide a general understanding of the daily operations of our proposed Liquid Transportable Waste Receiving Facility. It is the guideline for the design plan and operations of our proposed facility, taking into account, the success of similar facilities across the United States. With respect to industrial pretreatment permit, our facility will meet and often exceed the expectations of domestic strength wastes.

SYSTEM DESCRIPTION:

Nationally, the environmental rules are becoming more and more stringent for land application of septic and discharge of trucked liquid waste to the Public Owned Treatment Work (POTW). Some of the local receiving facilities in our area are being stressed with their NPDES permits. Also, everything we put on the land affects everyone's drinking water! Servicing septic tanks on a more regular basis solves these problems. These processes produce the cleanest liquid discharges. Here is the flow plan that all liquid waste processors follow:

Crystal Environmental Flow Plan -- Advanced Systems 2013



A liquid waste processing facility is built with optimum solids liquid separation in mind. Primarily, the transported waste will be pumped from the truck into a grit collection container. Each and every truck is inspected, and a sample is secured. Phase 1 removes over 98% of the grit, gravel and stones. Ideally, the gravity overflow from this container cascades into the screening device to gently remove all other materials larger than 3/8".

Our facility incorporates a two-tank process allowing us to alternate from Tank A to Tank B. The process liquid is pumped into the first equalizing tank, Tank A. Once Tank A is filled, it is pH adjusted to optimize dewatering. Meanwhile, the second tank, Tank B, can be filled from an incoming truck, without disturbing the chemistry of Tank A. Once Tank A is full and pH adjusted, it is pumped with on demand solution of polymer to the dewatering process. The solids are secured in the dewatering process and the clean water is ready for discharge to the sewer plant.

99.9% of all solids are removed from the liquid creating some of the cleanest separated water.



Influent and Effluent Water Quality

OPERATING LIMITATIONS:

Discharge Details & Capacity:

- The facility will be approved to discharge up to 25,000 gpd
- A flow meter will be provided to verify the discharge.
- An accessible flow interceptor will be installed so that the POTW may inspect as they see fit.

Spill Containment:

The facility will provide for spill containment of septage and chemicals to prevent any spilled agent from entering the ground water supply. In the event of a leak, the facility will be well equipped with septage trucks to immediately clean up the leakage.

REPORTING:

The facility's operators will keep record of all liquid waste material coming into the facility and will hold a grab sample for a minimum of 2

weeks to assure compliance. Testing will be regularly tested as per instructions of the industrial standards of the Public Owned Treatment Plant.

FACILITY BENEFIT STATEMENT:

Our company has become the leader in our region. Delivering liquid waste loads of any type to a Public Owned Treatment (POTW) have always been a great concern. Pre-treating the liquid waste and sending a domestic strength liquid discharge to the POTW allows for 10-20 times the amount of liquid waste that a POTW can accept. Furthermore, the discharges from these type facilities are enriched with water-soluble nutrients that can easily be treated. In most cases, the POTW will not even see a processing effect from such a clarified discharge.

Our initial goal is to process the liquid waste that we pump. By minimizing the travel time to the POTW, we anticipate increasing our pumping business over the next five years. In addition, we are finding that more frequent pump outs of our most responsible customers, has a positive impact on the ground water supplies. Our new marketing strategy is to inform household users that the health of each septic system is enhanced by frequently removing the accumulated waste in their septic tanks. Furthermore, the TSS, BOD / CBOD, and NH₃ discharges of each septic tank have a positive impact on our precious water sheds. Foresight in accomplishing this will sustain greater water quality for all, in the years to come.

Roberta Cocco
Mayor

Scott Dzurka
Vice Mayor

Eric Hufnagel
Commissioner

Jean Ruestman
Commissioner

Brad Gurski
Commissioner



Dave J. Kudwa
City Manager

Mindy J. Seavey
City Clerk

Kristina Kinde
City Treasurer

Michael Homier
City Attorney

Justin Smith
Director of Public
Services

GA Hunt Excavating and Septic
1220 E Taft Road
St Johns MI 48879

February 7, 2023

To all interested parties,

The City of St Johns along with our consulting engineers Fishbeck, have reviewed your application and our ability to accommodate discharge from your proposed septic receiving station. After review by both parties The City of St Johns Waste Water Treatment Plant **is able to accept** the discharge from the proposed septic receiving station.

The proposed septic receiving station will become an Industrial user of the City of St Johns Waste Water Treatment Plant. Several IPP documents, local limits and sewer use limits are pending approval from EGLE, the City will gain legal authority to implement Special Allocation Limits (SAL) and BOD surcharges. Additionally, as an Industrial User several other requirements set forth by The City of St Johns, will be required to be met as part of your permit.

- Permit developed by Fishbeck and issued by The City of St Johns
- Monthly sampling by GA Hunt and submitted in report form to the City of St Johns
- Annual inspection by the City of St Johns
- Annual spot sample performed by Paragon Laboratories on behalf of the City of St Johns

Receipt and acceptance of the above requirements must be submitted in writing prior to any construction permits being issued to:

City of St Johns
100 E State Street, Suite 1100 P.O. Box 477
St Johns MI 48879
RE: GA Hunt Septic Receiving Station

For the City of St Johns


Justin Smith
Director of Public Services

100 East State Street, P.O. Box 477, St. Johns, Michigan 48879-0477
(989) 224-8944 Fax (989) 224-2204
E-mail: csj@ci.saint-johns.mi.us

Memo

TO: Steve Martin – City of St. Johns
Jordan Whitford – City of St. Johns

FROM: Corrine M. Haybarker – Fishbeck

DATE: July 18, 2022

PROJECT NO.: 221134

RE: Evaluation of WWTP's Ability to Accommodate Discharge from Proposed Septage Receiving Station

Fishbeck was requested by the City of St. Johns (City) to assist in evaluating the ability of the St. Johns Wastewater Treatment Plant (WWTP) to accommodate the discharge from a proposed septage receiving station. The primary operations planned for the septage receiving station facility include grit removal, screening, equalization, polymer addition, dewatering and discharge. There will be an odor control system.

The WWTP maintains a National Pollutant Discharge Elimination System (NPDES) permit to discharge 1.9 million gallons per day (mgd) of treated municipal wastewater to the St. Johns Big Ditch Drain. The WWTP is a tertiary treatment facility and includes the following processes: screening, grinding, grit removal, equalization basins, primary and secondary clarifiers, rotating biological contactors, tertiary sand filtration, chlorination, and dechlorination.

This evaluation was based on the following documents:

- July 2021 – June 2022 Monthly Operating Reports (MOR)
- Industrial Waste Questionnaire

Hydraulic Capacity

The WWTP basis of design flow is 1.9 mgd, which corresponds to the value listed in the City's NPDES permit. The current average influent to the WWTP, based on 12 months of MORs, is 1.226 mgd; this is 64.5% of the WWTP design flow.

The average flow from the proposed septage receiving station is estimated to be 25,000 gallons per day (gpd) Monday through Friday. This additional flow would increase the average influent flow to the WWTP to 1.251 mgd; this is 65.8% of the WWTP design flow. Table 1 presents a comparison of the average current and proposed flows to the WWTP.

Based on this evaluation, the WWTP has hydraulic capacity available to accommodate the proposed septage receiving station.

Table 1 - Comparison of Flows

Source	Current Average Flow (mgd)	Proposed Average Flow (mgd)
Background	1.168	1.168
Existing Significant Industrial Users (SIU)	0.0583	0.0583
Proposed Septage Receiving Station	--	0.0250
Average Total WWTP Influent	1.226	1.251
Percentage of Basis of Design Flow	64.5%	65.8%

Loading Capacity

The estimated quality of the proposed septage receiving station discharge was provided to the City in a completed Industrial Waste Questionnaire. The City currently allocates the Maximum Allowable Industrial Load (MAIL) to SIUs with uniform local limits. Several Industrial Pretreatment Program (IPP) documents, including updates to the local limits and the sewer use ordinance, are pending approval by EGLE. Once the updated sewer use ordinance is approved by EGLE, the City will gain the legal authority to implement Special Allocation Limits (SAL) at its discretion.

As shown in Table 2, when the proposed discharge is compared to the current and proposed uniform local limits, it is expected to meet all local limits except BOD₅. The use of SALs would allow the proposed septage receiving station to be permitted for BOD₅ at a level higher than the local limit would allow. Although, the discharge would remain subject to surcharge fees for discharges above the surcharge threshold of 200 mg/L of BOD₅.

Table 2 - Comparison of Local Limits to Proposed Discharge

Parameter	Current Local Limits (mg/L)	Pending Local Limits (mg/L)	Proposed Septage Receiving Discharge (mg/L)
BOD ₅	300	300	350
TSS	300	300	50
Total-P	16.9	16.9	15
NH ₃ -N	35	35	30
FOG, Total	30	250	50
FOG, Nonpolar	--	100	50

The primary constraints of using SALs concern total load allocations and insuring there remains sufficient Maximum Allowable Headworks Loading (MAHL) to safely accommodate all loads allocated to industrial users as well as domestic, septage, and other background sources and sufficient MAIL to safely accommodate all loads allocated to industrial users. As shown in Table 3, sufficient MAHL and MAIL remains for all pollutants of concern under current and proposed conditions.

Based on this evaluation, the WWTP has loading capacity available to accommodate the proposed septage receiving station discharge.

Table 3 – Comparison of Remaining MAHLs and MAILs

Parameter	Current Remaining		Proposed Remaining	
	% of MAHL	% of MAIL	% of MAHL	% of MAIL
BOD ₅	7 %	53 %	5 %	53 %
TSS	27 %	82 %	26 %	82 %
Total-P	28 %	72 %	24 %	72 %
NH ₃ -N	12 %	63 %	10 %	63 %
FOG, Total	30 %	62 %	28 %	62 %
FOG, Nonpolar	59 %	80 %	57 %	80 %

Discussion and Summary

In general, it has been our experience that EGLE prefers septage discharges to be addressed similarly to domestic and background loads; that is, using average allocations (i.e., rather than daily maximums that are used for significant industrial users). If the WWTP were to accept this discharge, it is recommended the averages be weekly with the option to change to monthly once sufficient data has been collected. With weekly average limits, we recommend weekly monitoring for standard limits (concentration-based) and daily monitoring for SALs (mass-based).

Based on this evaluation of flow and loading, it was determined there is adequate capacity available at the WWTP to accommodate the proposed septage receiving station discharge. An additional evaluation may be necessary to determine if there is adequate capacity in the collection system to accommodate the proposed septage receiving station discharge.

By email

CONFIRMATION

PART OF THE USA TODAY NETWORK

Lansing State Journal
300 S Washington Square, Ste 300
Lansing MI, 48933

G. A HUNT SEPTIC
1220 E TAFT RD
SAINT JOHNS MI 48879-

PO#:

Account	AD#	Ordered By	Tax Amount	Total Amount	Payment Method	Payment Amount	Amount Due
9892271222	0005574807	Ashley Faivor	\$0.00	\$73.10	Credit Card	\$0.00	\$73.10
Sales Rep: ANPrice			Order Taker: ANPrice		Order Created 01/26/2023		
Product	Placement	Class	# Ins	Start Date	End Date		
LSJ-LSJ-Lansing State Journal	LSJ-Public Notices	Legal Notices	1	01/30/2023	01/30/2023		
LSJ-LSJ-Lansing State Journal O	LSJW-Public Notices	Legal Notices	7	01/30/2023	02/05/2023		

* ALL TRANSACTIONS CONSIDERED PAID IN FULL UPON CLEARANCE OF FINANCIAL INSTITUTION

Text of Ad: 01/26/2023

PROPOSED OPERATING PLAN
FOR REVIEW AND COMMENT
G. A HUNT EXCAVATING &
SEPTIC
SEPTAGE RECEIVING FACILITY
The Proposed Operating Plan for G.
A Hunt Excavating & Septic -Septage
Receiving Facility to be located on
the South West Corner of Business 127
& Parks rd., St Johns Michigan is
available for review and comment at
1220 E Taft Rd during normal busi-
ness hours. The office can be contact-
ed at 989-227-1220. The purpose of this
facility is to receive septage waste
for treatment. Please submit any
written comments regarding the pro-
posed operation of this receiving fa-
cility by February 6, 2023 to the ad-
dress listed above.
LSJ-5574807 1/30/2023

AFFIDAVIT OF PUBLICATION

LSJ MEDIA

300 S. Washington Square, Suite 300, Lansing, MI 48933

State of Michigan, County of Macomb

IN THE MATTER OF

G. A HUNT SEPTIC
1220 E. TAFT RD
SAINT JOHNS, MI 48879

PROPOSED OPERATING PLAN
FOR REVIEW AND COMMENT
G. A HUNT EXCAVATING &
SEPTIC

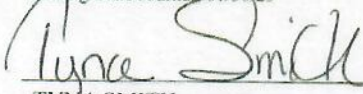
SEPTAGE RECEIVING FACILITY
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Receiving Facility) to be located on
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& Parks rd., St. Johns, Michigan is
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posed operation of this receiving fa-
cility by February 6, 2023 to the ad-
dress listed above.
LSJ-5574807 0302023

Being duly sworn, says that he/she is authorized by the publisher of Lansing State
Journal, to

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year in the community where the publication is to occur

Lansing State Journal 01/30/23


Tyna Smith

SUBSCRIBED AND SWORN TO BEFORE ME THIS 31st DAY OF January,
2023


GINA ANNE HUFF
Notary Public State of Michigan
County of Livingston
My commission expires March 9, 2023

Acting in the County of Macomb

0005574807, 9892271222

LSJ-LSJ-Lansing State Journal

NO.	REVISION	DATE

EAI
 250 Main Street
 Stoughton, MA 01972
 (508) 325-4422
 (508) 325-4423 fax

Engineering Applications
EAI, LLC

CA HUNT TREATMENT FACILITY
 17 BUSINESS CIRCLE 27
 ST. LOUIS, MISSOURI 63109

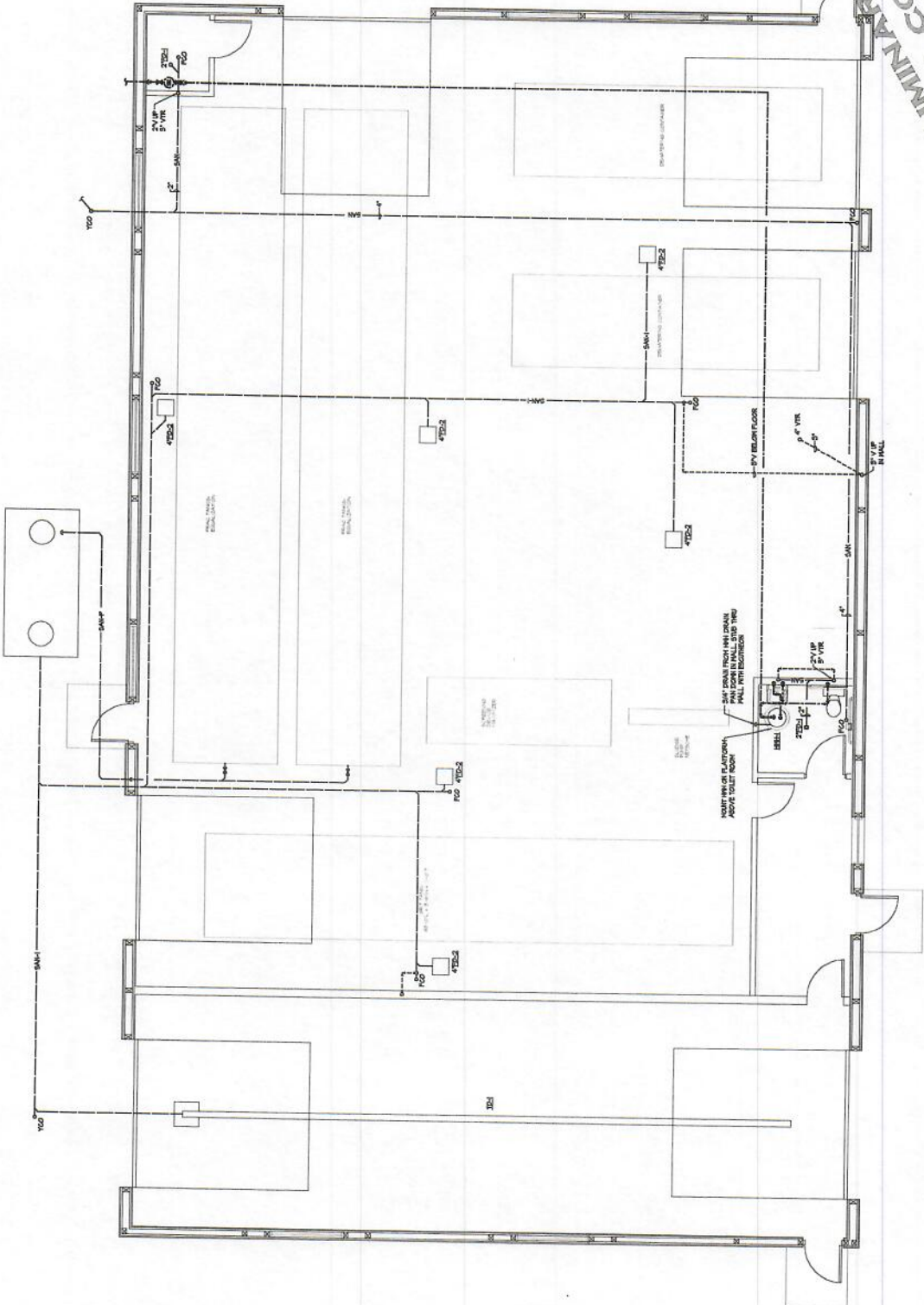
PROJECT NO. 22228

PROJECT DATE

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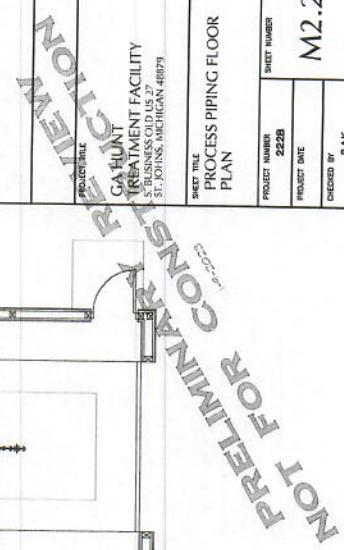
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M2.1



NOT FOR CONSTRUCTION

PLUMBING FLOOR PLAN
 SCALE 1/4" = 1'-0"



SCALE: V4 • 1-4

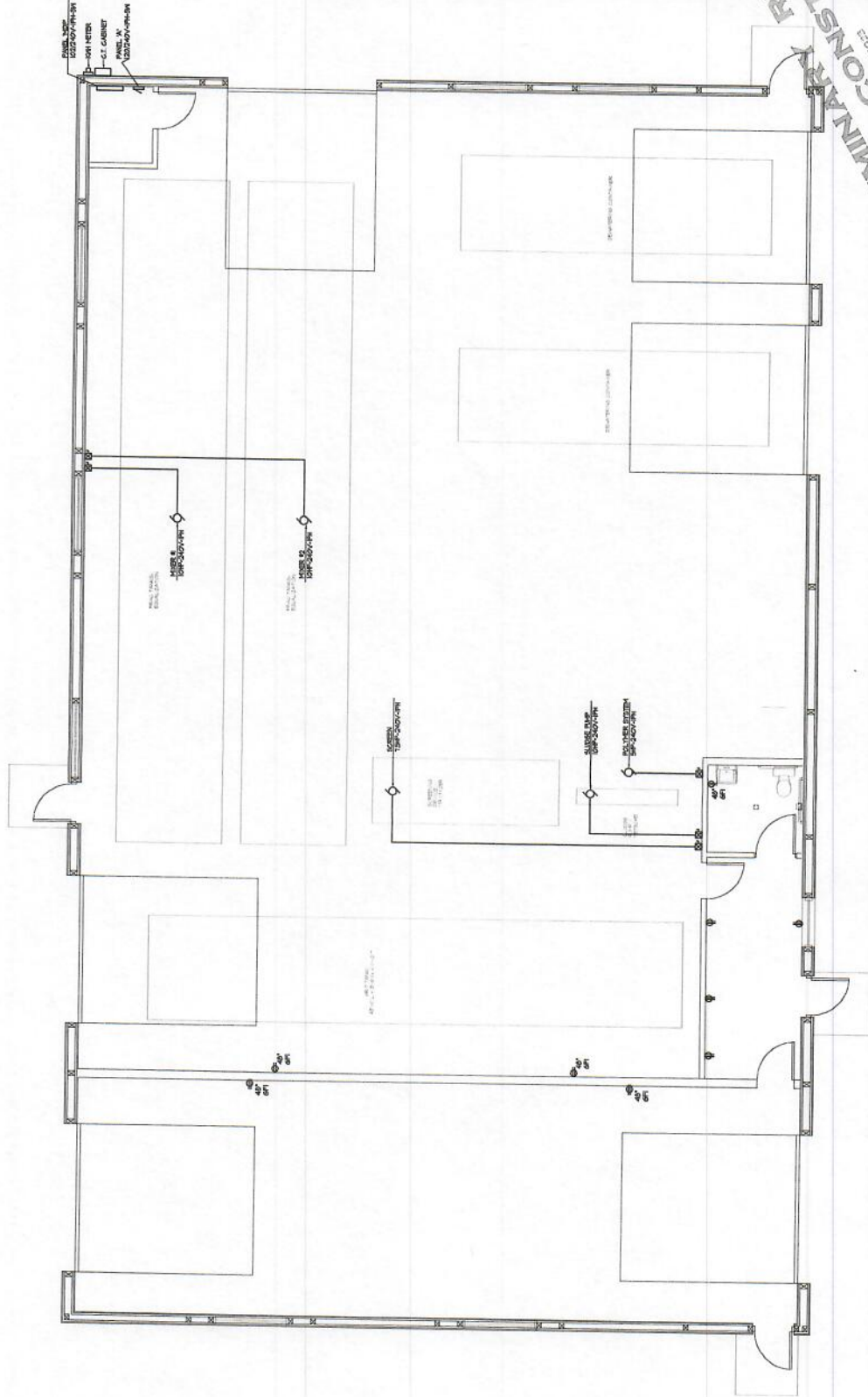
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EAI
Engineering Applications
EAI, LLC

774 Alder Road
East Lansing, Michigan 48823
(517) 337-4422 phone
(517) 337-2155 fax

SHEET TITLE PROCESS PIPING FLOOR PLAN	SHEET NUMBER	
	PROJECT NUMBER 2229	M2.2
	PROJECT DATE	
DESIGNED BY		BAK

EAI Engineering Applications EAI, LLC 254 John Street St. Johns, Michigan 48079 (413) 315-4422 phone (413) 315-2115 fax		NO. REVISION DATE	
PROJECT TITLE GA HUNT TREATMENT FACILITY 5 BUSINESS OLD US 27 ST. JOHNS, MICHIGAN 48079		SHEET NUMBER E3.1	
PROJECT NUMBER 222B		PROJECT DATE	
CHECKED BY BAK		SHEET TITLE POWER FLOOR PLAN	



POWER FLOOR PLAN
 SCALE 1/8" = 1'-0"

PRELIMINARY
 NOT FOR CONSTRUCTION

GA HUNT TREATMENT FACILITY

S.BUSINESS OLD US 27

ST JOHNS. MI 48879

GENERAL NOTES

1. NO WORK SHALL COMMENCE ON THIS PROJECT UNTIL ALL REQUIRED PERMITS ARE EXECUTED BY LOCAL BUILDING AUTHORITIES. FAILURE TO COMPLY MAY RESULT IN REMOVAL OF WORK-IN-PLACE FOR INSPECTION AND / OR CODE COMPLIANCE. ALL COST ASSOCIATED WITH REMOVAL, CHANGES, AND RECONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

2. DO NOT SCALE THESE DRAWINGS

3. ALL WORK ON THIS PROJECT SHALL BE COMPLETED IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL CODES.

4. DEFECTS IN SERVICE.
THE OWNER SHALL PROMPTLY REPORT TO STUDIO [INTRIGUE] ARCHITECTS ANY DEFECTS OR SUSPECTED DEFECTS IN THE SERVICES OF WHICH THE OWNER BECOMES AWARE, SO THAT STUDIO [INTRIGUE] ARCHITECTS MAY TAKE MEASURES TO MINIMIZE THE CONSEQUENCES OF SUCH A DEFECT. THE OWNER FURTHER AGREES TO IMPOSE A SIMILAR NOTIFICATION REQUIREMENT ON ALL OTHERS EXCEPT CONTRACTORS IN ITS OWNER/CONTRACTOR CONTRACT AND SHALL REQUIRE ALL SUBCONTRACTS AT ANY LEVEL TO CONTAIN A LIKE REQUIREMENT. FAILURE TO NOTIFY SHALL RELIEVE STUDIO [INTRIGUE] ARCHITECTS OF THE COSTS OF REMEDYING THE DEFECTS ABOVE THE SUM SUCH REMEDY NOW HAD COST HAD PROMPT NOTIFICATION BEEN GIVEN WHEN SUCH DEFECTS WERE FIRST DISCOVERED.

5. DESIGN / DOCUMENT OWNERSHIP.
DRAWINGS, DESIGN & SPECIFICATIONS, AS INSTRUMENTS OF SERVICE, AS WELL AS THE DESIGN OF ANY WORK PRODUCED BY STUDIO [INTRIGUE] ARCHITECTS SHALL REMAIN THE PROPERTY OF STUDIO [INTRIGUE] ARCHITECTS WHETHER THE PROJECT WHICH THEY ARE INTENDED FOR IS EXECUTED OR NOT. STUDIO [INTRIGUE] ARCHITECTS HOLDS THE COPYRIGHT AND ANY AND ALL RIGHTS ASSOCIATED THEREWITH FOR THE INSTRUMENTS OF SERVICES AND THE FINISHED WORK, INCLUDING THE RIGHT TO SELL, PUBLISH, MAKE DERIVATIVE WORKS OR USE IN ANY MANNER DESIRED. THE CLIENT OF STUDIO [INTRIGUE] ARCHITECTS SHALL BE PERMITTED TO OBTAIN COPIES OF THESE INSTRUMENTS OF SERVICE FOR THEIR USE IN THE OCCUPANCY AND PLANNING OF THIS PROJECT. THE DRAWINGS, SPECIFICATIONS AND/OR DESIGN SHALL NOT BE USED BY THE CLIENT OF STUDIO [INTRIGUE] ARCHITECTS ON OTHER PROJECTS, FOR ADDITIONS TO THIS PROJECT, OR FOR COMPLETION OF THIS PROJECT BY OTHERS EXCEPT BY AGREEMENT IN WRITING AND WITH APPROPRIATE COMPENSATION TO STUDIO [INTRIGUE] ARCHITECTS. THE CLIENT IS GRANTED A LIMITED REPRODUCTION LICENSE TO REPRODUCE DRAWINGS AND SPECIFICATIONS AS NEEDED IN THE EXECUTION OF THIS PROJECT. SHOULD THIS AGREEMENT BE TERMINATED, THE LIMITED LICENSE IS TERMINATED. IF TERMINATION IS DUE TO BREACH OF CONTRACT BY ARCHITECT, THE LICENSE IS TERMINATED, AND A NEW LICENSE SHALL BE GRANTED FOR THE CLIENT TO CONTINUE WITH A NEW DESIGN PROFESSIONAL. THE CLIENT IS NOT PERMITTED UNDER ANY CIRCUMSTANCES TO SELL, LEASE, RENT, PUBLISH OR OTHERWISE DISTRIBUTE THESE INSTRUMENTS OF SERVICE OR TO OTHER PARTIES WITHOUT THE EXPRESS WRITTEN CONSENT OF, AND APPROPRIATE COMPENSATION AND CREDIT TO, STUDIO [INTRIGUE] ARCHITECTS.

6. ELECTRONIC DOCUMENTS.
THE CLIENT OF STUDIO [INTRIGUE] ARCHITECTS HAS NOT BEEN GRANTED A LICENSE TO OBTAIN, UTILIZE OR DISTRIBUTE ELECTRONIC FILES CONTAINING INSTRUMENTS OF SERVICE OR DESIGNS OF STUDIO [INTRIGUE] ARCHITECTS WITHOUT THE EXPRESS WRITTEN AGREEMENT OF, AND APPROPRIATE COMPENSATION TO, STUDIO [INTRIGUE] ARCHITECTS.

7. CONSTRUCTION MEANS AND METHODS.
CONSTRUCTION MEANS AND METHODS ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR FOR THE PROJECT. STUDIO [INTRIGUE] ARCHITECTS ASSUMES NO RESPONSIBILITY FOR THE CONSTRUCTION MEANS AND METHODS PROVIDED BY THE CONTRACTOR, NOR SHALL ANY REVIEW OR OBSERVATION OF WORK BY STUDIO [INTRIGUE] ARCHITECTS RELIEVE THE CONTRACTOR OF THAT RESPONSIBILITY.

8. CONSTRUCTION OBSERVATION.
UNDER THIS AGREEMENT, CONSTRUCTION OBSERVATION, IF PROVIDED IN THE PROPOSAL BY STUDIO [INTRIGUE] ARCHITECTS, IS INTENDED SOLELY TO MONITOR GENERAL CONFORMANCE WITH THE PLANS AND SPECIFICATIONS PRODUCED BY STUDIO [INTRIGUE] ARCHITECTS AND IS NOT A GUARANTEE THAT THE CONTRACTOR HAS PROPERLY PERFORMED ITS WORK. A SEPARATE WRITTEN AGREEMENT DETAILING THE EXTENT OF OBSERVATION AND/OR INSPECTION MAY BE PROVIDED, IF DESIRED, IN THE ABSENCE OF ANY SUCH OVERRIDING AGREEMENT, THE CONDITIONS STATED ABOVE SHALL REMAIN IN EFFECT.

9. REQUEST FOR CLARIFICATION OR INTERPRETATION
THE OWNER'S AGREEMENT WITH THE CONTRACTOR SHALL STATE THAT THE CONTRACTOR MAY, AFTER EXERCISING DUE DILIGENCE TO LOCATE REQUIRED INFORMATION, REQUEST FROM STUDIO [INTRIGUE] ARCHITECTS, LLC CLARIFICATION OR INTERPRETATION OF THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. STUDIO [INTRIGUE] ARCHITECTS, LLC SHALL, WITH REASONABLE PROMPTNESS, RESPOND TO SUCH CONTRACTOR'S REQUESTS FOR CLARIFICATION OR INTERPRETATION. HOWEVER, IF THE INFORMATION REQUESTED BY THE CONTRACTOR IS APPARENT FROM FIELD OBSERVATIONS, IS CONTAINED IN THE CONTRACT DOCUMENTS OR IS REASONABLY INFERRABLE FROM THEM, THE CONTRACTOR SHALL BE RESPONSIBLE TO THE OWNER FOR ALL REASONABLE COSTS CHARGED BY STUDIO [INTRIGUE] ARCHITECTS, LLC TO THE OWNER FOR THE ADDITIONAL SERVICES REQUIRED TO PROVIDE SUCH INFORMATION.

GENERAL NOTES CONT...

10. UNAUTHORIZED CHANGES.
IN THE EVENT THE OWNER, THE OWNER'S CONTRACTORS OR SUBCONTRACTORS, OR ANYONE FOR WHOM THE OWNER IS LEGALLY LIABLE MAKES OR PERMITS TO BE MADE ANY CHANGES TO ANY REPORTS, PLANS, SPECIFICATIONS OR OTHER CONSTRUCTION DOCUMENTS PREPARED BY STUDIO [INTRIGUE] ARCHITECTS WITHOUT OBTAINING PRIOR WRITTEN CONSENT OF STUDIO [INTRIGUE] ARCHITECTS, THE OWNER SHALL ASSUME FULL RESPONSIBILITY FOR THE RESULTS OF SUCH CHANGES, THEREFORE THE OWNER AGREES TO WAIVE ANY CLAIM AGAINST AND TO RELEASE FROM ANY LIABILITY, STUDIO [INTRIGUE] ARCHITECTS, ARISING DIRECTLY OR INDIRECTLY FROM SUCH CHANGES.

11. STUDIO [INTRIGUE] ARCHITECTS, ITS CONSULTANTS, OFFICERS AND EMPLOYEES ARE NOT RESPONSIBLE FOR JOB SITE SAFETY PRECAUTIONS, COMPLIANCE, MEANS/METHODS. JOB SAFETY IS THE FULL RESPONSIBILITY OF THE GENERAL CONTRACTOR.

12. ALL BIDDERS MUST VISIT THE SITE TO EXAMINE THE EXISTING CONDITIONS AND ANY OBSTACLES. NO ADDITIONAL PAYMENT WILL BE APPROVED BY THE OWNER FOR CONDITIONS AND/OR OBSTACLES THAT THE BIDDER COULD HAVE IDENTIFIED THROUGH THE REQUIRED SITE VISIT.

13. CONTRACTOR SHALL INCLUDE THE COST OF ALL LABOR, MATERIALS, STATE SALES TAX AND USE TAXES TO COMPLETE THE PROJECT IN ACCORDANCE WITH THE DOCUMENTS.

14. CONTRACTOR SHALL INCLUDE THE COST OF ALL PLAN REVIEW, BUILDING PERMITS (INCLUDING TRADE PERMITS) AND INSPECTION FEES NECESSARY TO COMPLETE THE CONSTRUCTION OF THIS PROJECT.

15. CONTRACTOR SHALL PROVIDE AND PAY FOR TEMPORARY UTILITIES SUCH AS WATER, ELECTRIC, HEAT, ETC., AS NECESSARY TO COMPLETE PROJECT.

16. CONTRACTOR SHALL VERIFY ALL MEASUREMENTS, DIMENSIONS AND EXISTING CONDITIONS PRIOR TO COMMENCEMENT. PRIOR TO COMMENCEMENT OF PLACEMENT OF INTERIOR WALLS, THE CONTRACTOR SHALL COMPLETE A PRELIMINARY WALL LAYOUT ON THE FLOOR SYSTEM, NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO COMMENCEMENT.

17. VERIFY LOCATION OF ALL EXISTING UTILITIES--NOTIFY OWNER OF SCHEDULE TO TURN OFF ANY UTILITIES. DRAWINGS ARE NOT INTENDED TO SHOW THE LOCATION OF UTILITIES. THOSE SHOWN OR NOTED ARE APPROXIMATE.

18. BARRICADE AND PROTECT WORK AREAS, ADJACENT WALKWAYS AND ACCESSES TO PROTECT WORKMEN, PEDESTRIANS, ADJACENT TENANTS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL JOB SITE SAFETY PRECAUTIONS AND OBSERVATIONS.

19. AVOID ENCRoACHMENT ON ADJACENT PROPERTIES OR TENANT SPACES. THE GENERAL CONTRACTOR SHALL REPLACE AND/OR REPAIR DAMAGE TO ADJACENT PROPERTIES OR TENANT SPACES RESULTING FROM ENCRoACHMENT DURING CONSTRUCTION OPERATIONS.

20. KEEP ALL DRIVE LANES AND BUILDING EXITS CLEAN AND CLEAR AT ALL TIMES.

21. STRUCTURAL COMPONENTS SHALL NOT BE REMOVED OR MODIFIED WITHOUT THE APPROVAL OF THE ARCHITECT.

22. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL GENERAL CLEANING DUTIES TO REMOVE ALL DEBRIS ASSOCIATED WITH THE DEMOLITION INCLUDING, BUT NOT LIMITED TO: LOT SWEEEPING, INSPECTION / REPLACEMENT OF HVAC FILTERS, DUSTING, WINDOW CLEANING, ETC.

DESIGN/BUILD TRADES

THE GENERAL CONTRACTOR SHALL EMPLOY THE SERVICES OF A FIRE STOPPING CONTRACTOR TO DESIGN/BUILD FIRE STOPPING SYSTEMS FOR THROUG AND MEMBRANE PENETRATIONS IN FIRE-RATED BUILDING COMPONENTS.

24. PENETRATIONS
PENETRATIONS THROUGH UNRATED ROOF/CEILING AND FLOOR/CEILING ASSEMBLIES SHALL HAVE THE ANNULAR SPACE AROUND THE PENETRATION FILLED IN ACCORDANCE WITH 2015 MIBC TABLE 6.1.4.3 TO RESIST THE FREE PASSAGE OF FLAME AND THE PRODUCTS OF COMBUSTION.

PENETRATIONS THROUGH FIRE-RATED ASSEMBLIES SHALL BE PROTECTED BY UL LISTED FIRE-STOPPING SYSTEMS IN ACCORDANCE WITH 2015 MIBC 714.

26. INTERIOR COLORS AND FINISHES SHALL BE SELECTED BY THE OWNER.

27. WOOD FRAMING (IF USED) SHALL BE FIRE STOPPED SO THAT VERTICAL & HORIZONTAL CAVITIES DO NOT EXCEED 10'-0"

28. ALL SLABS ON GRADE SHALL HAVE CONSTRUCTION OR CONTROL JOINTS NOT TO EXCEED 25'-0" SPACING, UNLESS OTHERWISE NOTED. CONSTRUCTION JOINTS SHALL BE DOVELED W/ #4 BARS @ 24" O.C. W/ 8" EMBEDMENT MIN..

29. ALL SLABS ON GRADE SHALL BE 8" CONCRETE W/ 6X6 W/ 4X4 W/ 4" MIN ON 6" MIN VAPOR BARRIER ON 4" MIN COMP. SAND FILL OR AS INDICATED IN GEOTECHNICAL REPORT. PROVIDE DOVELED CONSTRUCTION JOINT WHERE NEW MEETS EXISTING.

GENERAL NOTES CONT...

30. INTERIOR FINISHES SHALL CONFORM TO THE REQUIREMENTS OF 2015 MIBC 803.

THE CORRIDOR (AND CONTIGUOUS SPACES) SHALL HAVE MINIMUM CLASS B WALL AND CEILING FINISHES - FLAME SPREAD OF 26-75; SMOKE-DEVELOPED 0-450.

ROOMS AND ENCLOSED SPACES SHALL HAVE MINIMUM CLASS C WALL AND CEILING FINISHES - FLAME SPREAD OF 76-200; SMOKE-DEVELOPED 0-450.

31. ALL FLOOR SURFACES SHALL BE SLIP RESISTANT AND SECURELY ATTACHED IN ACCORDANCE WITH 2015 MIBC 1003.4. THE STATIC COEFFICIENT OF FRICTION FOR ALL FLOOR SURFACES SHALL BE 0.6 MINIMUM.

32. PROVIDE ADEQUATE CLEARANCES FOR SERVICING OF EQUIPMENT PER CODE.

33. PROVIDE ALL NECESSARY NAILERS, BLOCKING AND GUARDS AS REQUIRED TO SUPPORT HANDRAILS, GUARDRAILS, WINDOW COVERINGS, DOORSTOPS, WALL MOUNTED CABINETS, ETC. SET WORK PLUMB, LEVEL AND ACCURATELY CUT.

34. GRAB BARS INSTALLED IN THE TOILET ROOMS SHALL BE DESIGNED TO RESIST A SINGLE CONCENTRATED LOAD OF 250 POUNDS APPLIED IN ANY DIRECTION AT ANY POINT.

35. ALL WATER FAUCETS SHALL MEET ICC/ANSI REQUIREMENT FOR OPERABLE PARTS - OPERABLE PARTS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS MAXIMUM.

36. TOILET ROOM SIGNAGE (VISUAL/TACTILE) SHALL BE LOCATED ALONGSIDE THE DOOR ON THE LATCH SIDE. TOILET ROOM SIGNAGE SHALL BE MOUNTED SO THAT THE BASELINE OF THE VISUAL CHARACTERS IS 48" TO 60" ABOVE THE ADJACENT FLOOR SURFACE.

37. EACH PANE OF TEMPERED GLAZING SHALL BE LABELED TO SPECIFY THE LABELER, THE SAFETY GLAZING STANDARD, THE TYPE AND THE THICKNESS. THE LABEL SHALL BE ACID-ETCHED, SAND BLASTED, CERAMIC FIRED, OR EMBOSSED, OR SHALL BE OF A TYPE THAT ONCE APPLIED CANNOT BE REMOVED WITHOUT BEING DESTROYED

38. ALL FIRE EXTINGUISHER LOCATIONS SHOWN ARE APPROXIMATE. EXTINGUISHERS LOCATED IN PUBLIC AREAS SHALL BE INSTALLED IN SEMI-RECESSED CABINETS (PROJECTION NOT TO EXCEED 4"). EXTINGUISHERS IN NONPUBLIC AREAS (HVAC CLOSETS, STORAGE ROOMS, EQUIPMENT ROOMS) SHALL BE BRACKET-MOUNTED. ALL FIRE EXTINGUISHER LOCATIONS AND MOUNTING HEIGHTS SHALL BE APPROVED BY THE LOCAL FIRE MARSHAL PRIOR TO INSTALLATION.

39. WHERE REQUIRED BY THE LOCAL FIRE MARSHAL, A KNOX BOX SHALL BE INSTALLED ON THE EXTERIOR OF THE BUILDING.

40. THE G.C. SHALL INSTALL ADDRESS NUMBERS OF THE SIZE, TYPEFACE AND LOCATION AS REQUIRED BY THE LOCAL JURISDICTION.

41. INSTALL SUSPENDED CEILING GRID IN ACCORDANCE WITH ASTM C636-16 "STANDARD PRACTICE FOR INSTALLATION OF METAL CEILING SUSPENSION SYSTEMS FOR ACoustICAL TILE AND LAY-IN PANELS". GRID WORK SHALL BE SUPPORTED W/ A MINIMUM OF 1-1/2 GA. HANGER WIRE TO STRUCTURE ABOVE AT 4'-0" O.C. EACH WAY.

42. BRAILLE EXIT SIGN PLACARDS TO BE LOCATED ADJACENT TO EACH DOOR TO AN EGRESS STAIRWAY, AN EXIT PASSAGEWAY, AND THE EXIT DISCHARGE. IN ACCORDANCE WITH SECTION 1013.4 OF THE 2015 MIBC AND COMPLYING WITH ICC A117.1.

43. CONTRACTOR SHALL PROVIDE ACCESS OR ACCESS PANELS TO ALL VALVES, DAMPERS AND OTHER NECESSARY UTILITY ADJUSTMENT ITEMS.

44. COORDINATE SIZE AND LOCATION OF OPENINGS AND STEEL SUPPORTS FOR MECHANICAL EQUIPMENT PRIOR TO FABRICATION.

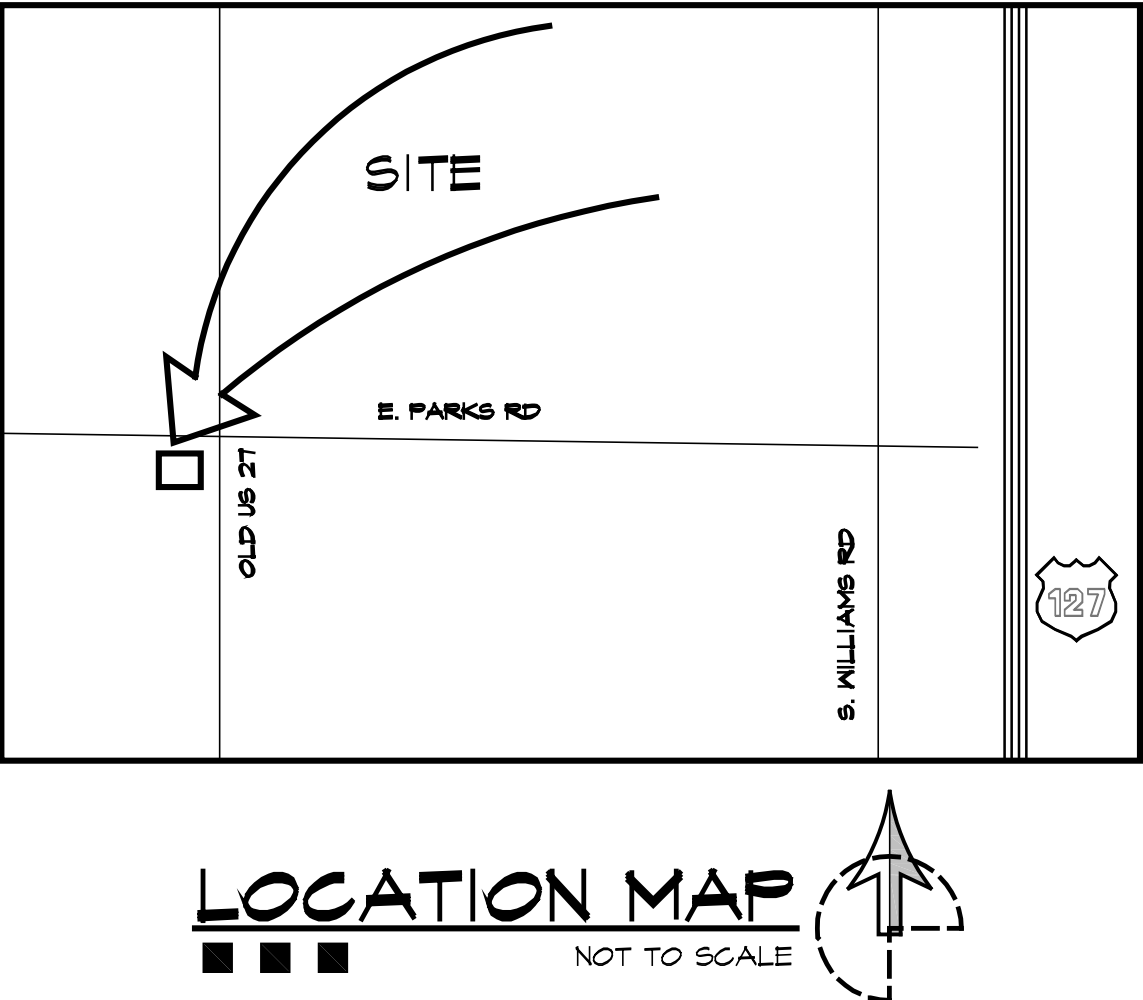
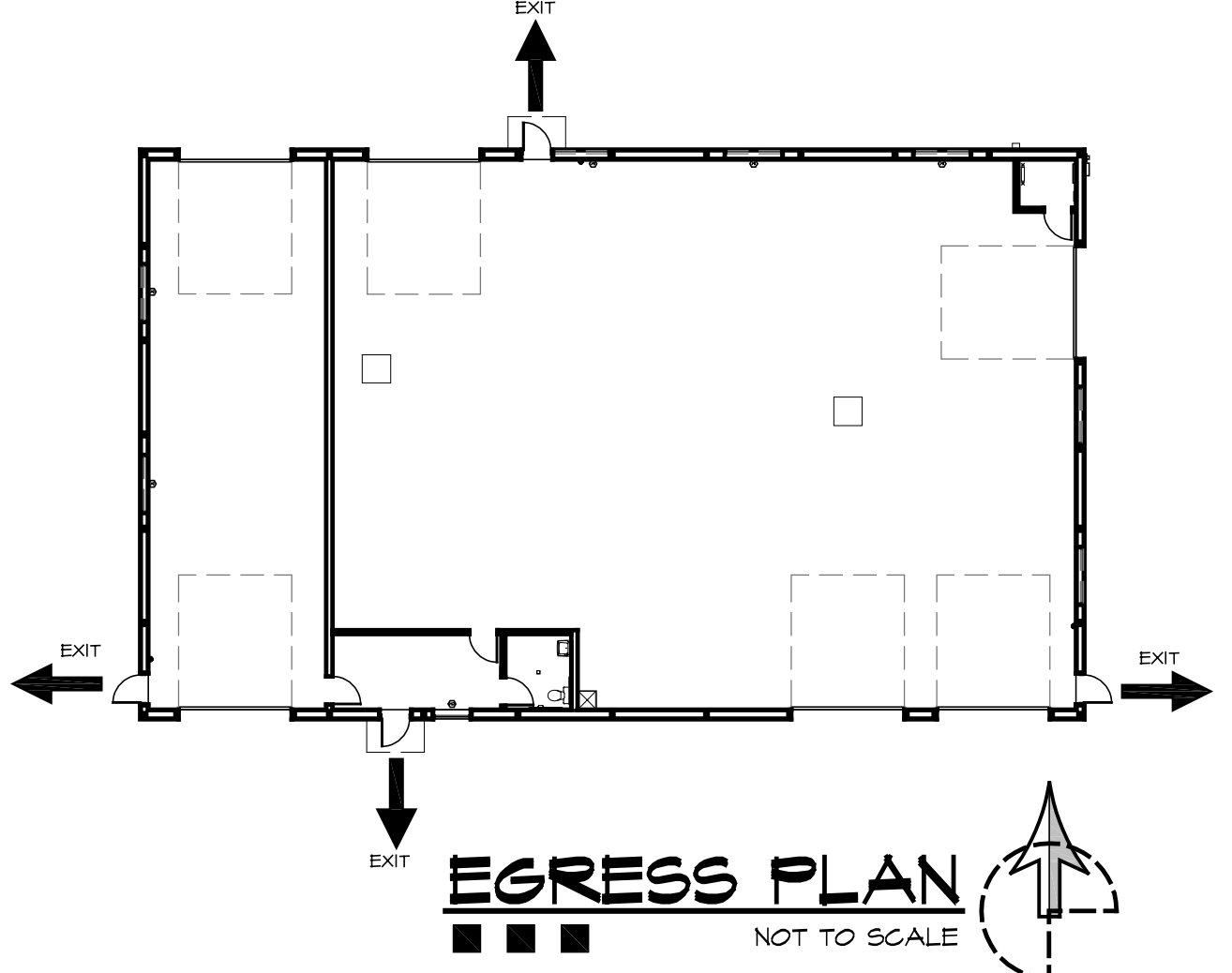
45. GYPSUM BOARD MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF ASTM C1396.

47. GYPSUM BOARD MATERIALS USED IN FIRE RATED ASSEMBLIES SHALL CONFORM TO THE REQUIREMENTS OF THE UL ASSEMBLIES LISTED.

48. PITCH ALL GRADES AND EXTERIOR SLABS AWAY FROM BUILDING FOR DRAINAGE.

49. COMPACT ALL FILL AND BACK FILL TO MINIMUM 95% MODIFIED PROCTOR.

50. SOIL TO A MINIMUM DEPTH OF 12" BELOW INTERIOR CONCRETE SLAB AND AS INDICATED IN GEOTECHNICAL REPORT SHALL BE IN A COMPACTED CONDITION OF 95% MODIFIED PROCTOR PRIOR TO POURING CONCRETE. SOILS ENGINEER SHALL PROVIDE CERTIFICATION OF SUCH, PROVIDE A MINIMUM OF 6" OF CLEAN SAND BELOW CONCRETE SLAB.



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M/E/P CONSULTING ENGINEER
ENGINEERING APPLICATIONS EAI, LLC
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517-337-4422 PHONE

NARRATIVE

THIS WASTE CONTAINMENT BUILDING IS DESIGNED TO RECEIVE SEPTIC WASTE, TREAT AND DISCHARGE TO PUBLIC SEWER.

THIS IS A PRE-ENGINEERED WOOD STRUCTURE AS DESIGNED BY NICK BUILDINGS. SEE ASSOCIATED ENGINEERED DESIGN DRAWINGS FOR STRUCTURAL DESIGN AND SPECIFICATIONS.

DRAWINGS CONTAINED HEREIN CONTAIN ARCHITECTURAL, HVAC DESIGN, PLUMBING AND ELECTRICAL DESIGN.

NOTE

THE BUILDING WILL NOT BE USED FOR VEHICLE STORAGE OR REPAIR

STUDIO INTRIGUE ARCHITECTS



EAI ENGINEERS



PROJECT DATA

APPLICABLE CODES	
BUILDING CODE	2015 MICHIGAN BUILDING CODE
MECHANICAL CODE	2015 MICHIGAN MECHANICAL CODE
PLUMBING CODE	2015 MICHIGAN PLUMBING CODE
ELECTRICAL CODE	2017 NATIONAL ELECTRIC CODE (WITH STATE OF MICHIGAN PART 8 AMENDMENTS)
ENERGY CODE	2015 MICHIGAN ENERGY CODE -- 2015 ASHRAE 90.1
ACCESSIBILITY	2009 ICC/ANSI A117.1 -- 2015 MI BLDG CODE CH. II

GENERAL PROJECT DATA

CONSTRUCTION TYPE	VB (COMBUSTIBLE)
OCCUPANCY CLASSIFICATION(S)	F-1 (FACTORY)
FIRE SUPPRESSION	NOT REQUIRED
FIRE ALARM SYSTEM	NOT REQUIRED
SMOKE DETECTION	NOT REQUIRED
ZONING	I-1 LIGHT INDUSTRIAL

BUILDING AREA (INSIDE EXTERIOR WALLS PER CODE - NOT FOR LEASING)	
GROSS AREA	5,745 S.F.

AREA CALCULATIONS

BASE TABULAR AREA IN ACCORDANCE WITH 2015 MIBC TABLES 504.3 (BLDG HGT), 504.4 (NO. OF STORIES) AND 506.2 (FLOOR AREA).
TABLE 1004.1.2 (WAREHOUSE): 5,745 (GROSS) S.F. / 500 = 11.49 OCCUPANTS
BUILDING AREA = 5,745 S.F. (8,500 S.F. BASE TABULAR)

8,500 S.F. > 5,745 S.F. (OKAY)

OCCUPANCY CALCULATIONS

GROUP F-1 OCCUPANCY	5,745 S.F. (GROSS)
GROUP F-1 FLOOR AREA:	500 (GROSS) S.F. / OCCUPANT
TABLE 1004.1.2 (WAREHOUSE):	5,745 (GROSS) S.F. / 500 = 11.49 OCCUPANTS
USE OCCUPANT LOAD:	12 OCCUPANTS
TOTAL OCCUPANT LOAD:	

STRUCTURAL LOADS

SEE ASSOCIATED PRE-ENGINEERED DRAWINGS FROM NICK BUILDINGS FOR STRUCTURAL DESIGN INFORMATION

SHEET INDEX

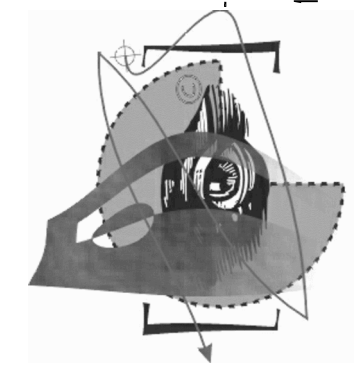
SHEET	SHEET DESCRIPTION	DATE
IX	SHEET INDEX / CODE DATA / LOCATION MAP	05/04/23
BF	BARRIER FREE REFERENCE SHEET	03/07/23
A-1	FLOOR PLAN / WALL TYPES	03/07/23
A-2	REFLECTED CEILING PLAN	03/07/23
A-3	EXTERIOR ELEVATIONS	03/07/23
A-4	EXTERIOR ELEVATIONS	03/07/23
A-5	BUILDING SECTIONS	03/07/23
A-6	WALL SECTIONS	03/07/23
A-7	DOOR AND WINDOW TYPES / SCHEDULES	03/07/23
M0.1	MECHANICAL NOTES / SCHEDULES / SYMBOLS / DETAILS	03/07/23
M2.1	PLUMBING FLOOR PLAN	03/07/23
M2.2	PROCESS PIPING FLOOR PLAN	03/07/23
M3.1	HVAC FLOOR PLAN	03/07/23
E0.1	ELECTRICAL NOTES / SCHEDULES / SYMBOLS / DETAILS / RISER DIAGRAM	05/04/23
E2.1	LIGHTING FLOOR PLAN	03/07/23
E2.2	LIGHTING CODE COMPLIANCE	03/07/23
E3.1	POWER FLOOR PLAN	05/04/23

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BIDDING AND PERMITS
BULLETIN 01

03/02/23
03/07/23
05/09/23

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Project Type
NEW
CONSTRUCTION

Project

GA HUNT
TREATMENT
FACILITY
S. BUSINESS OLD US 27
ST. JOHNS, MICHIGAN 48879

Client

GA HUNT
SEPTIC
SERVICES

1220 E. TAFT ROAD
ST. JOHNS, MI 48879

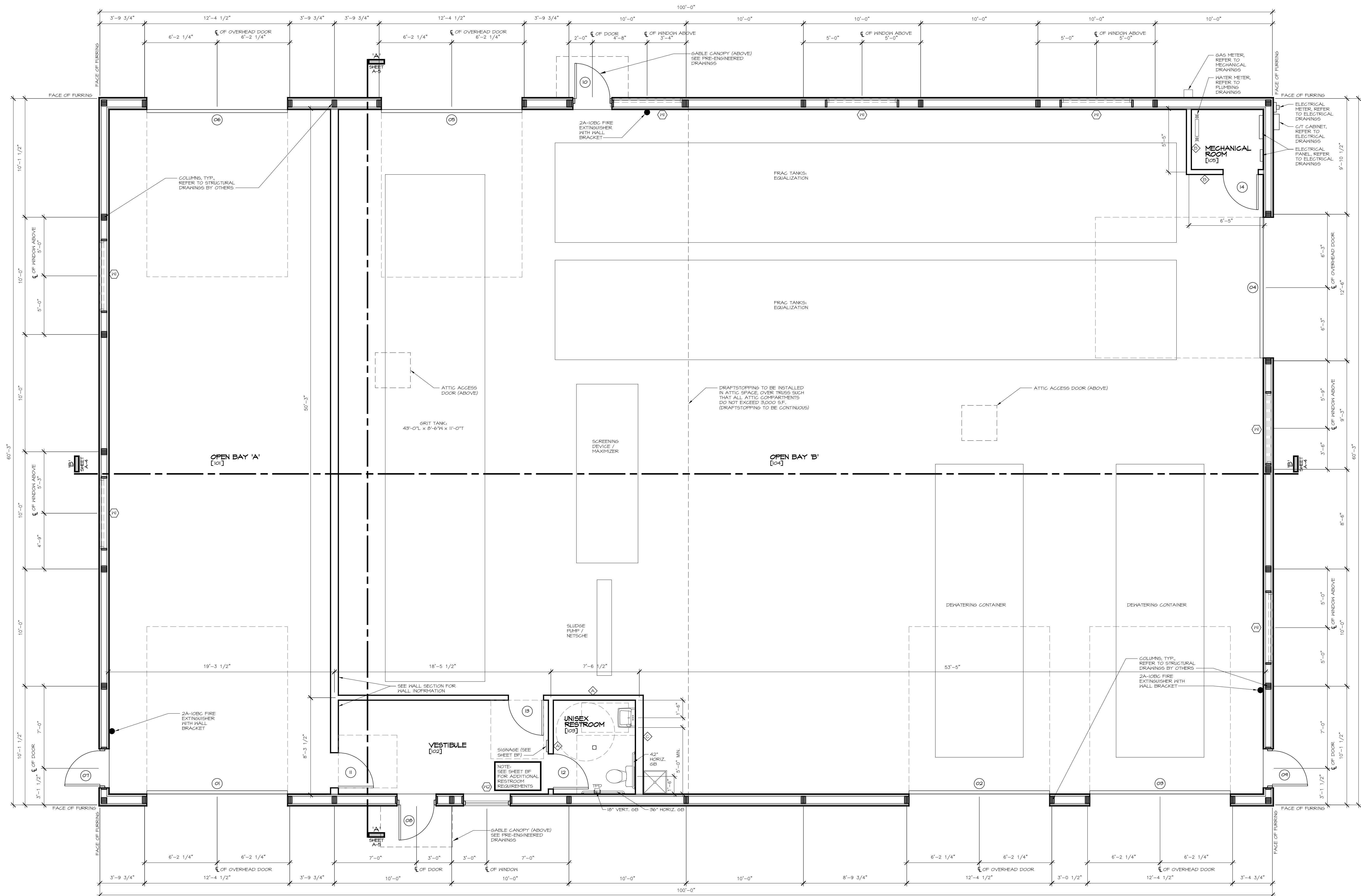
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Sheet

IX



FLOOR PLAN
1/4" = 1'-0"

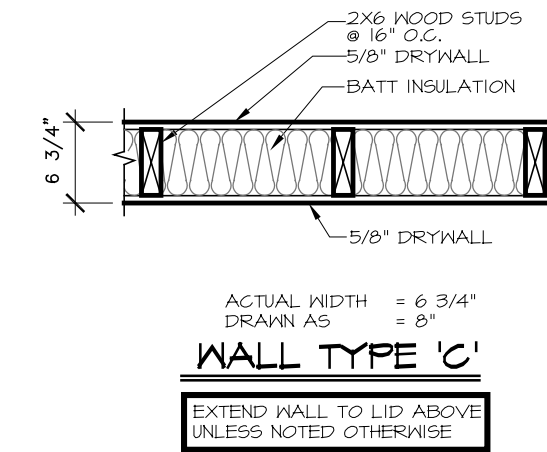
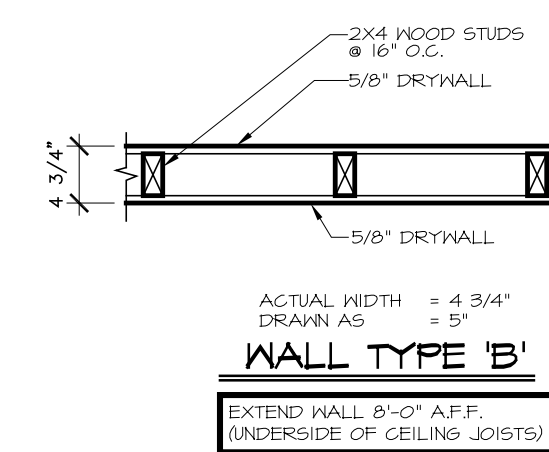
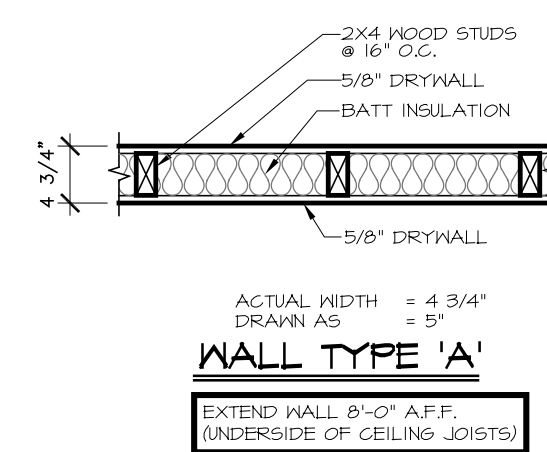
TOILET ACCESSORIES LEGEND

TPD - TOILET PAPER DISPENSER
GB - GRAB BAR

LEGEND

- WALL CONSTRUCTION DESIGNATION
- WINDOW DESIGNATION
- DOOR DESIGNATION

WALL TYPES
1" = 1'-0"



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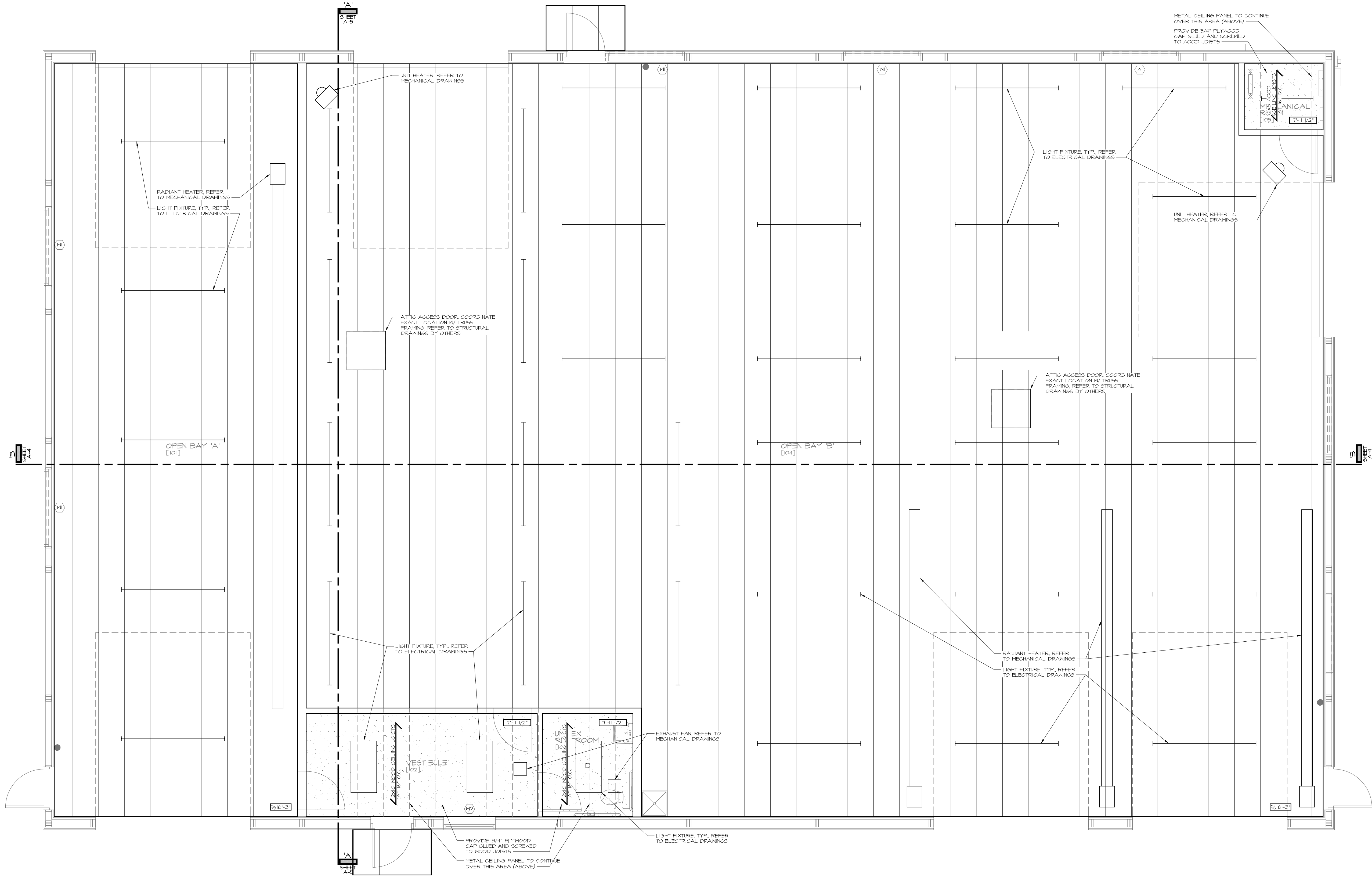
Project
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CEILING LEGEND

= METAL CEILING PANELS

= PAINTED DRYWALL

X'-X''

= INDICATES CEILING HEIGHT

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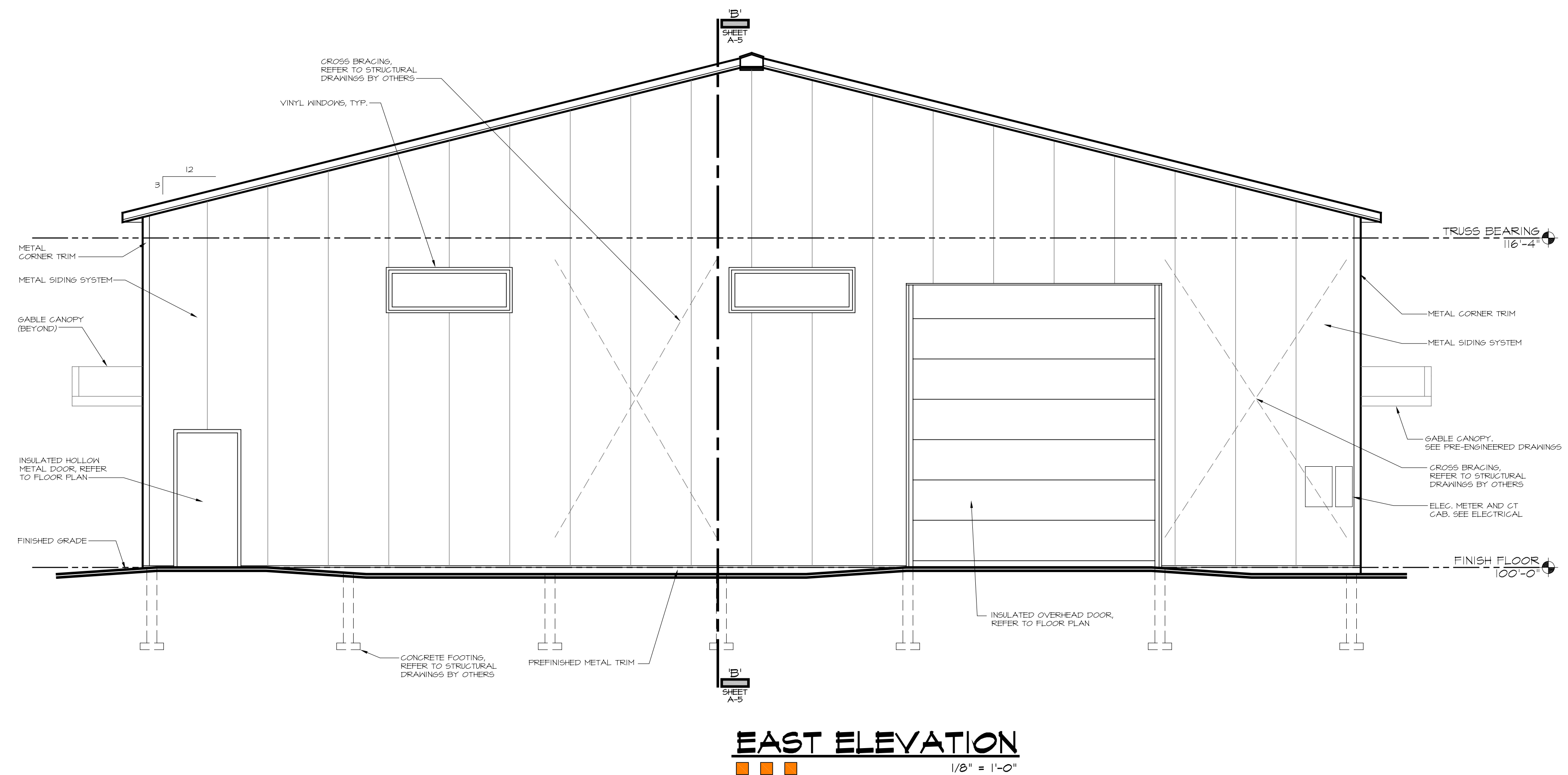
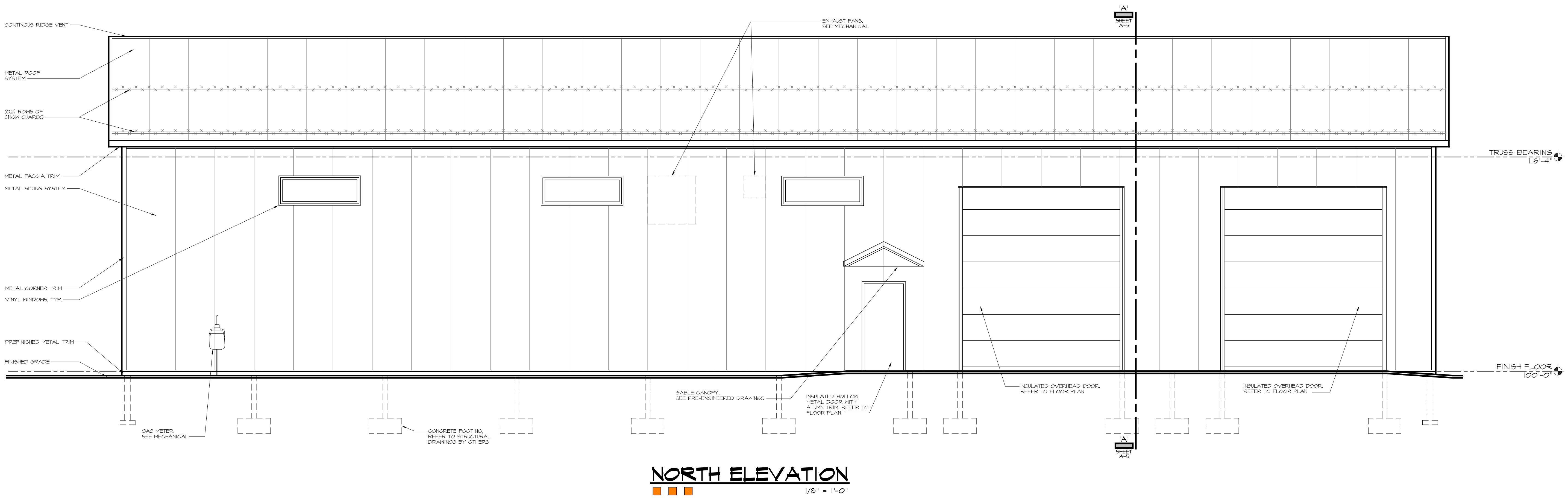
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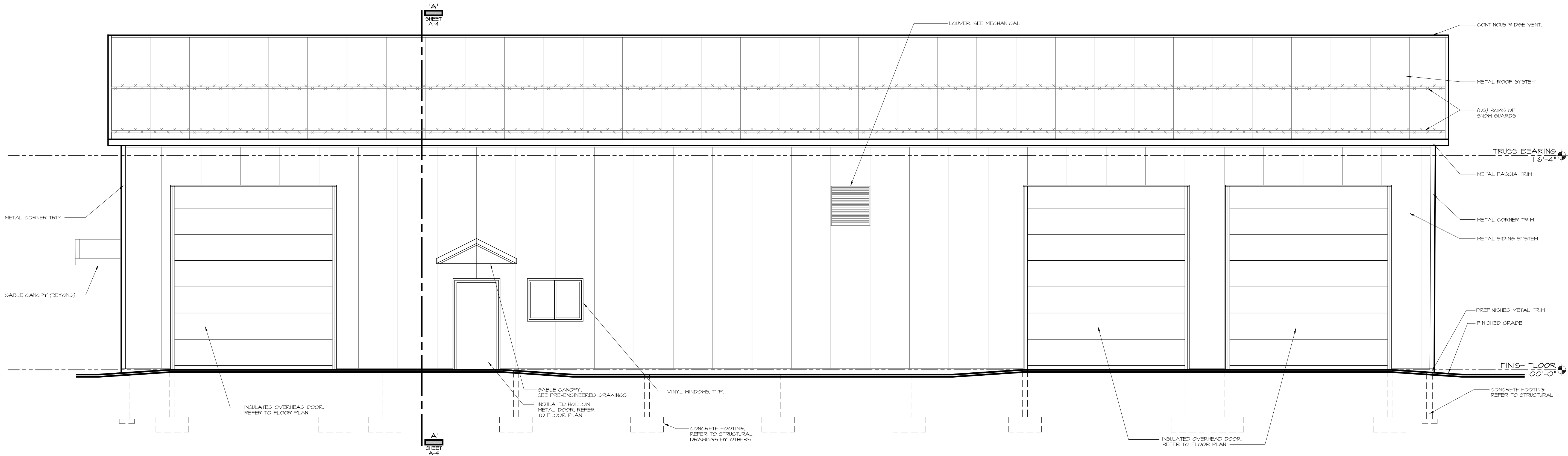
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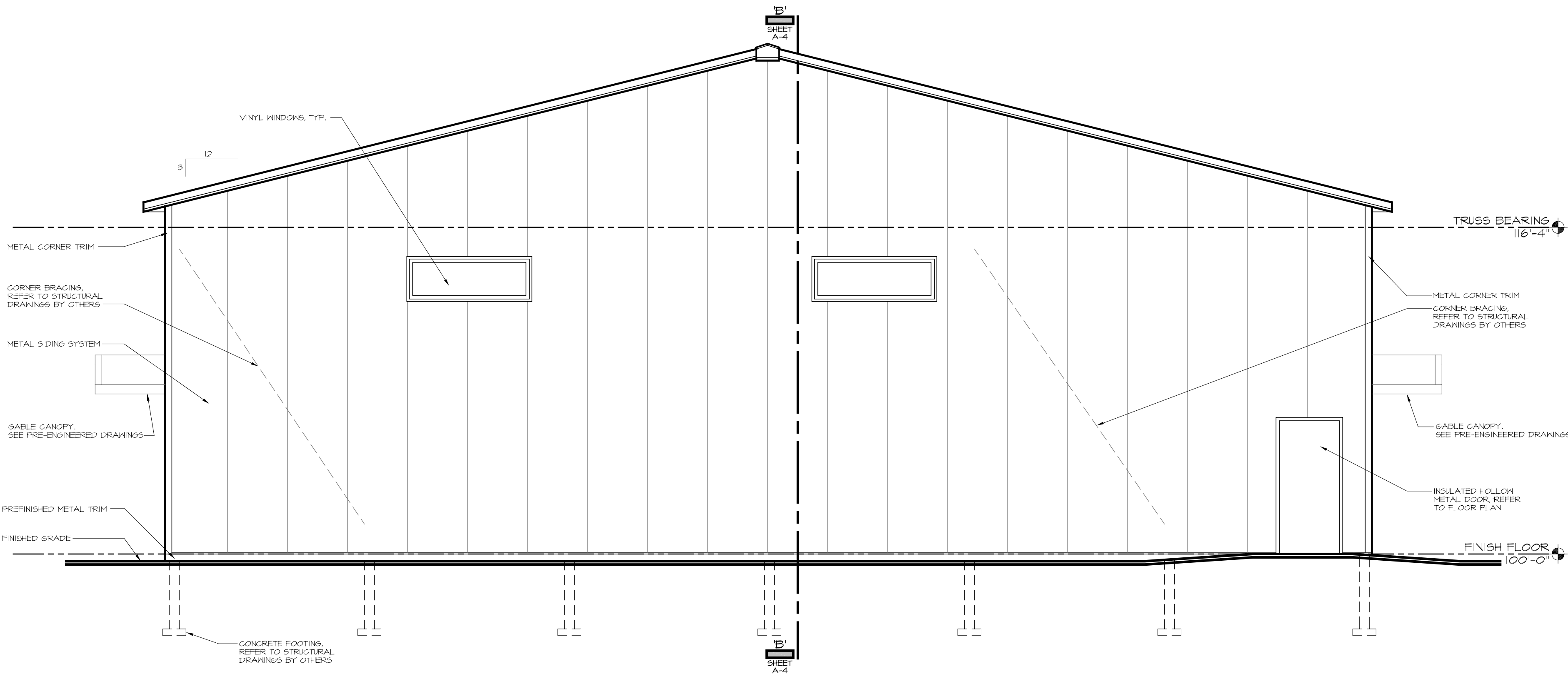
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SOUTH ELEVATION
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WEST ELEVATION
1/4" = 1'-0"

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