

STATE OF IOWA  
BEFORE THE IOWA UTILITIES BOARD

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IN RE:  
SUMMIT CARBON SOLUTIONS, LLC

DOCKET NO. HLP-2021-0001

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HARDIN COUNTY'S  
MOTION FOR DECLARATORY ORDER

COMES NOW, Intervenor, Hardin County, by and through the undersigned Hardin County Attorney, and for this motion for declaratory order, states:

1. Summit Carbon Solutions, LLC (hereinafter SCS), has filed a petition for a hazardous liquid pipeline (hereinafter HLP) permit that will traverse Hardin County, Iowa.
2. The SCS HLP will receive high-pressure, liquified CO<sub>2</sub> from SCS Carbon Removal LLC. (hereinafter SCS CR). The SCS CR facility is a Carbon Dioxide Capture Facility (hereinafter Capture Facility) located on the premises of a Pine Lake Corn Processors ethanol plant in Hardin County. The capture facility prepares the CO<sub>2</sub> before being released into the SCS HLP.
3. Attached hereto is SCS CR's building permit application relative to the aforementioned capture facility.
4. This SCS CR capture facility is outside the scope of SCS's permit application. SCS's petition is not seeking a permit for this capture facility.
5. This capture facility is outside the scope of Iowa Code 479B and the jurisdiction of the Iowa Utilities Board. Iowa Code 479B and 199 IAC 13.1(3) define "pipeline" as a "pipe or pipeline and necessary appurtenances used for the transportation or transmission of hazardous liquids". The "capture" facility is a processing facility that manufactures the CO<sub>2</sub> into a liquid form and released into the proposed pipeline.

6. This capture facility is outside the scope of federal regulations. PHMSA's statutory authority includes regulatory and safety authority for CO<sub>2</sub> onshore and offshore pipeline transportation and intermittent storage associated with that transportation. Per Max Kieba (Director, Office of Pipeline Safety – Program Development Division, US Department of Transportation, Pipeline and Hazardous Materials Safety Administration), PHMSA's authority over pipeline transportation does not pertain to carbon capture equipment. As prescribed by statutory authority, 49 U.S.C. § 60102(i)(3), PHMSA is not authorized to regulate piping or equipment used in the production, extraction, recovery, lifting, stabilization, separation, or treatment of CO<sub>2</sub> or the preparation of CO<sub>2</sub> for transportation by pipeline at production, refining, or manufacturing facilities. Subsection (3) reads as follows:

**(3) LIMITATION ON STATUTORY CONSTRUCTION.—**

Nothing in this subsection authorizes the [Secretary](#) to regulate piping or equipment used in the production, extraction, recovery, lifting, stabilization, separation, or treatment of carbon dioxide or the preparation of carbon dioxide for transportation by pipeline at production, refining, or manufacturing facilities.

7. The IUB should issue a declaratory order that declares the following:
- a. The petition or a permit, HLP-2021-0001, does not include the SCS CR capture facility.
  - b. The SCS CR capture facility is not a utility or pipeline under Iowa Code 479B or 199 IAC Chapters 1-45.
  - c. The IUB has no jurisdiction over the SCS CR capture facility and does not preempt local ordinances or permitting requirements.
  - d. The SCS CR capture facility is not a hazardous liquid pipeline governed by PHMSA.

WHEREFORE, the Intervenor, Hardin County Board of Supervisors, requests entry of an order making the requested declarations set forth in paragraph 7 above.

/s/ Darrell G. Meyer

Darrell G. Meyer  
Hardin County Attorney  
1201 14th Avenue, 2nd Floor

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Eldora IA 50627  
(641) 939-8118  
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[dmeyer@hardincountyia.gov](mailto:dmeyer@hardincountyia.gov)



August 3, 2023

Ms. Jessica Sheridan, Planning & Zoning Administrator  
Hardin County  
708 16th St.  
Eldora IA 50627

**RE: APPLICATION FOR HARDIN COUNTY BUILDING PERMIT**

**ID: NEP-BLD-TKL-0001-0-PLCP\_Building Permit Application\_20230803**

Dear Jessica Sheridan:

TurnKey Logistics, LLC (TurnKey) has been authorized by SCS Carbon Removal LLC (Summit) to act on its behalf to acquire permits, approvals, and agreements for the Summit Carbon Solutions Pipeline Project.

As part of the project, Summit is proposing to construct a Carbon Dioxide Capture Facility at the Pine Lake Corn Processors Ethanol Plant Site, located at 33371 170th St. Steamboat Rock, IA 50672. The purpose of the project is to capture CO2 emissions from the ethanol plant fermentation process which will then be transported via underground pipes to sequestration sites in North Dakota. Construction at this site will include the installation of carbon dioxide capture and compression equipment, a compressor building, pump building and modular controls building.

TurnKey is pleased to submit, on behalf of Summit, a Building Permit Application for the Capture Facility, including the following documents:

- Building Permit Application Form
- Site Plan
- Compressor Building Plans
- Pump Building Plans
- Modular Control Building Plans
- Power of Attorney Authorization for TurnKey to act on behalf of Summit.

I will be your point of contact with respect to permitting, approvals and agreements. Please do not hesitate to contact me at 814-777-7945 or jon.lietzke@tkl360.com with any questions or if you require additional information. All permits, agreements and documentation related to this request may be emailed to me or mailed to 6340 N. Eldridge Parkway, Suite N #441, Houston, TX 77041.

Thank you for your time and consideration.

Respectfully Submitted:

A handwritten signature in dark ink, reading 'Jonathan P. Lietzke'.

Jonathan P. Lietzke  
Permitting Manager  
TurnKey Logistics, LLC  
Cell: 814-777-7945  
Email: jon.lietzke@tkl360.com  
Web: TurnKeyLogistics.net



Permit#: \_\_\_\_\_  
Date Issued: \_\_\_\_\_

Fee Pd. \$ \_\_\_\_\_

# HARDIN COUNTY ZONING

## Application for Building Permit

\* All Fees are Non-refundable

Owner's/Applicant's Name: \_\_\_\_\_ Telephone #: \_\_\_\_\_  
(owner of property rights)

Address \_\_\_\_\_

Structure Description: \_\_\_\_\_

Structure to be: Erected: \_\_\_\_\_ Altered: \_\_\_\_\_ Other: \_\_\_\_\_

Purpose: \_\_\_\_\_

Legal Description of Property: \_\_\_\_\_

Property is Zoned: \_\_\_\_\_ Size of Parcel: \_\_\_\_\_ (acres) Adjoining Road(s) \_\_\_\_\_

Front Width: \_\_\_\_\_ Rear Width: \_\_\_\_\_ (lot) Dimensions of Structure:: \_\_\_\_\_

No. of Rooms: \_\_\_\_\_ No. of Bedrooms: \_\_\_\_\_ No. of Stories: \_\_\_\_\_ No. of Families \_\_\_\_\_

Setbacks: (Structure will be placed):

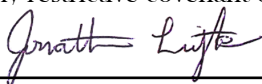
\_\_\_\_\_ feet from front right-of-way (direction) \_\_\_\_\_ feet from rear lot line (direction)

\_\_\_\_\_ feet from side lot line (direction) \_\_\_\_\_ feet from side lot line (direction)

Estimated Valuation of Project: \$ \_\_\_\_\_ Contractor: \_\_\_\_\_

The undersigned applicant certifies under oath and under penalties of perjury, that the foregoing information is true and correct. I further agree this building does not violate any restrictive covenant of the abstract.

**Attach Completed Location Diagram**

  
Jonathan Lietzke  
Turnkey Logistics, LLC  
authorized agent of SCS Carbon Transport, LLC  
Applicant or Agent for Applicant

### Office Use Only

Approved Sewer System:

Approved Zoning Application:

Hardin County Sanitarian

Hardin County Zoning Administrator

Date

Date

Reason for denial and/or additional information: \_\_\_\_\_

## Hardin County Zoning

### **BUILDING SITE LOCATION MAP**

Number of Acres \_\_\_\_\_

Locate: House

Dimensions: Front \_\_\_\_\_

Well

Sides \_\_\_\_\_

Septic Tank &  
Absorption Field

Rear \_\_\_\_\_

911 Address: \_\_\_\_\_

Accessory Buildings or  
Uses

\_\_\_\_\_



See  
Attached  
Drawings

Number of Name of Road \_\_\_\_\_

Soils Types \_\_\_\_\_

CSR \_\_\_\_\_

Comments \_\_\_\_\_

- *In addition to the above, it may be necessary to furnish the Zoning Official with a complete set of building plans, if requested.*

REVISIONS					REFERENCE DRAWINGS		DATE BY	DATE	 <b>SUMMIT CARBON SOLUTIONS</b>	<div>ISSUED FOR USE</div>	 <b>PSC Primoris</b> Design & Construction <small>PROJECT NO.: 8322 S BUCKLEWAY AVE. SUITE 200 PUEBLO, CO 81002 PH: 303.737.0040 FAX: 303.737.0041 TX EMAIL: C-DESIG</small>	SCS - PINE LAKE		
NO.	DESCRIPTION	BY	CHECKED	DATE	DRAWING	TITLE	DATE	BY				PIPING-MECHANICAL GENERAL ARRANGEMENT PLAN		
0	ISSUED FOR USE	CR	NLS	05/16/2013							SCALE: 1"=60'	PLC-P-42-0102	NOT TO SCALE	



GENERAL BUILDING SPECIFICATIONS

Building Dimensions: 60'-0" wide x 120'-0" long x 37'-0" eave height.  
Crane Hook Height: 26'-0" hook height.  
Sidewall Bay Spacing: 10'-0", 21'-0", 20'-0", 22'-6", 22'-6" & 24'-0" from Frame Lines A to G with standard endwall mainframe setbacks.  
Endwall Bay Spacing: 20'-0", 20'-0", 20'-0".  
Roof Slope: 1:12, Gable Symmetrical clearspan mainframe with tapered to straight/ constant depth columns and rafters, Sidewall girts are to be bypass condition and the endwall girts are flush condition.

- Building shall be designed in accordance with the following criteria:  
Building Code: 2015 IBC (ASCE 7-10).  
Live Load: 30 PSF Non-Reducible.  
Dead Load: Self-Weight of the Structure.  
Snow Load: 30 PSF Ground Snow, I = 1.0; Ce = 1.0; Ct = 1.0.  
Wind Load: 115 MPH Exposure 'C'; Risk Category = II (Normal).  
Seismic: Ss = 0.0580g; S1 0.0420g; I = 1.0; Site Class 'D'; Design Category 'B'.  
Deflection: Per Manufacturer's Standards.  
Crane Load: 15-Ton Top Running, Single Girder, Electric Operated Bridge Crane.  
Collateral Load: 5 PSF for misc. items (lighting, duct work, etc.) by others.  
Other/ Special Loads:
- All Primary framing members (Columns and Rafters) are to be designed for a 3,500 lbs. load at any point on the framing member.
  - Purlins and Girts are to be designed for 500 lbs. load at any point on the framing member.
  - Two (2) levels of Structural Support framing for Cable Trays (60 PLF each) by others will be provided. Brackets and framing are provided on the inside column flange located on the Front Sidewall Line 4 (full length) and Right Endwall Line G (full length). Maximum allowable spacing centerline to centerline for support framing of the Cable tray is 20'-0". The first level of Cable Trays by others will support (2) Cable Trays at the 19'-5" elevation above finished floor and a bracket projection of 4'-8". The second level will be at the 22'-1" elevation above finished floor with a bracket projection of 2'-7". Framing will consist of light gauge cee channels (10x3.5C14 or 10x3.5C12) and intermediate cee channels (8x3.5C14 or 8x3.5C16).
  - Provide design and support beams at the Front Sidewall Line 4 at the 8'-5" elevation and 17'-5" elevation above finished floor for vertical support of (2) Cable Trays (120 PLF) by others that will waterfall down the wall and be attached at those elevations.
  - Provide design and brackets (18" projection) for support of a 6" diameter pipe by others weighing 85 PLF located along the Back Sidewall Line 1 at Lines A to F. Bracket to be located at 12'-7" to top of bracket above finished floor elevation.
  - Provide design and support beam to span from frame Line G to B with top of beam to be located at 6'-7" above finished floor. Beam will support PSV pipes by others (7 pipes per Compressor Unit) for the following loads per each pipe:
    - Vertical Force (Fz) = 4,500 lbs.
    - Lateral Force (Fx) = 1,600 lbs.
    - Axial Force (Fy) = 500 lbs.

Building primary rigid frames to be designed and fabricated from hot rolled structural steel shapes and/or built-up tapered plate members. Building secondary structural steel members to be designed as cold-formed steel shapes and fabricated from steel sheet. Design and fabrication shall be in accordance with the "ASD" Edition of A.I.S.C., A.I.S.I., and A.W.S. D1.1—2010 Structural Welding Code as appropriate per the International Building Code adopted by each state.

A bent of full and typical size shall be provided at each end of the building with typical connections for girts, purlins, etc. so that future extension may be facilitated. Endwall materials shall be designed and connected to be easily removable and reusable. Building is furnished with steel rod, steel cable and/or steel angle roof and wall bracing.

After fabrication, all primary structural steel members shall be hand cleaned per SSPC SP-2 and given one shop coat of standard grey primer. Secondary and cold formed steel members shall be fabricated from pre-coated coil stock with manufacturer's standard red or grey primer.

Building roof and wall panels are to be 26-gauge galvalume, pre-painted through fastener (PBR) profile panels with major ribs at 12" on center. Finish to be factory coated. Roof panels are to be provided in manufacturer's standard Polar White color and wall panels in Ash Gray color both with a Siliconized Polyester finish

Building shall be furnished with exterior trim including roofline trim, rake, and corner trim to be 26-gauge galvalume, pre-painted material. Trim shall provide a finished appearance and be provided in manufacturer's standard Polar White color with a Siliconized Polyester finish.

Sealant tape shall be provided to produce a weather tight roof.

Base Angle shall be provided for the full perimeter of the building with a standard concrete sheeting notch with NO base trim.

Panel and trim fasteners shall be steel screws with washer and sealing washer (Long Life). Fasteners shall be matched to material in which they are installed.

Building roof and walls are furnished with 3" thick x 0.60# PCF density (R-10) VRR Plus fiberglass insulation.

BUILDING ACCESSORIES

- A 3 Walk doors  
Size 3070V  
Type Insulated with an STC-32 rating  
Frame Pre-Assembled, Welded  
Access Hardware Rim panic with lever, keyed alike, Type A3 BEST cores  
Standard Hardware Closer, Threshold, Sweep, SS hinges, Weather-stripping  
Additional Hardware Kickplate  
Glazing Insulated, 10" x 10" standard V-Lite  
Finish Manufacturer's standard gray prime painted finish

- B 1 Overhead Doors  
Size 18'-0" x 17'-0"  
Type Rolling Steel  
Operation Manual  
Electrical Classification Non-Classified  
Insulation Insulated, STC-21 rated  
Weathersstripping Fully Weather-stripped  
Mounting Inside face mounted  
Finish Curtain Manufacturer's Standard Prime painted  
Finish Hood, Guides, Bottom Bars Manufacturer's Standard Prime painted  
Other Manual Slide Bolt Locking Mechanism

- C 1 Lot of crane beams, brackets, cap channels, ASCE crane rail with hook bolts, splice plates, etc. and crane stops are to be provided for the crane system noted below.

- D 1 15-Ton, Top Running, Single Girder, with Hand-Geared Bridge and Electric Operated Hoist and Trolley crane system painted in manufacturer's standard safety yellow paint and provided complete with the following:  
Span 51'-4"  
Bridge Speed Manual, Hand-Geared  
Hoist Detroit D—Electric Wire Rope Hoist  
Hoist Speed 13 fpm (Electric Variable Speed)  
Trolley Speed 80 fpm (Electric Variable Speed)  
Hook Height 26'-0"  
Hoist Lift 29'-7" available lift  
Control 6-Button Pendant  
Power Supply 480V/ 3-Phase/ 60Hz  
NEC Classification Non-Classified  
Accessories: Full length OSHA approved Walkway with coped handrail  
Duct-O-Bar type runway electrification  
Standard Mechanical Features

ESTIMATED SHIPPING WEIGHT (ASSEMBLED): 20,400 lbs.

- E 1 Straight ladder (No Cage) with platform and safety gates for crane access is provided. Please be aware of new OSHA requirements for fall arrest systems on ladders. Cages are optional, but a fall arrest system must be in place and the cage cannot be used as a fall arrest system. The proposed ladder is designed for the addition of a fall arrest system per OSHA requirements which has been included. USS1 will provide a davit style, retractable lanyard type fall protection system for the crane access ladder.

- F 1 Lot of Snow bar type snow retention system with through fastener connections.

Judson D. Smith  
2023.06.05 07:26:12-05'00'  
11.2.1

I hereby certify that this plan, specification, or report was prepared by me or under my direct personal supervision, and that I am a duly Registered Professional Engineer under the laws of the State of Iowa.

Judson D. Smith  
Date: 6/5/23 Reg. No.: 9501

VENTILATION:

System to be designed for a 20° degree F Delta-T Design based on the following heat rejection information. All ventilation units are to be designed for a Non-Classified area/ environment.  
Heat Rejection Per Each Compressor Unit:  
KBC/ 6Compressor Radiant Heat: 244,450 BTU  
Motor Radiant Heat: 338,086 BTU  
Other Sources (Vessels, On-Skid Piping, Pre-Lube Pump Motor): 48,600 BTU/HR  
TOTAL BTUH PER EACH UNIT = 631,136 BTUH (NOTE: 3 Units in this Bldg.).

- G 2 Wall Mounted Panel Supply Fan Model: SWS60P54N1000, Powered, Non-Attenuated unit provided complete as follows:  
- 54" diameter propeller, direct drive, 'C' motor base, discharge venturi panel, structural steel support frame and motor base platform, painted to match the wall panel color.  
- Motor: 10 HP, 1,200 RPM, 230-460V/ 3-Phase/ 60Hz. TEFC.  
- PPG propeller, tested in accordance with ANSI/ AMCA 210-99.  
- Supply Fan Box, 60-3/8" square, 42" deep, 2" front frame flange, no mid-frame flange, 2" turn in at rear, painted to match the wall panel color.  
- Custom Radius Hood, 60" X 72" inlet, 5" extension, 3" throat, 2" flange, bird screen, painted to match the wall panel color.  
- Factory installed counterbalanced back draft damper.  
- Essentials Kit, consisting of required hardware for systems assembly and sealant rolls for weather tight installation.  
- Major components are to be minimum 18-gauge galvanized steel construction. Support flanges are to be 11-gauge steel.  
- Paint is a modified acrylic enamel for a lasting quality exterior finish.  
- Fan performance: 29,113 CFM at 0.51" SP.  
- Estimated weight: 1,210 lbs. per each unit.  
- Framed opening required: 60-3/4" square.

- H 8 Roof Exhaust Continuous Ridge ventilators with, 12" throat x 10'-0" long sections are provided complete with bird screen and operable dampers, painted in color to match the roof panels.

COLOR SCHEDULE	
ROOF PANEL	POLAR WHITE
WALL PANEL	ASH GRAY
CORNER TRIM	POLAR WHITE
GUTTER & RAKE TRIM	POLAR WHITE
DOWNSPOUTS	POLAR WHITE
ALL EXTERIOR FRAMED OPENING TRIM & EXTERIOR FLAT STOCK TRIM	POLAR WHITE

ACCESSORIES COLOR SCHEDULE	
WALK DOOR	PRIME PAINTED GRAY
ROLL UP DOOR	PRIME PAINTED GRAY
RIDGE VENTILATOR	POLAR WHITE
FAN	ASH GRAY
CRANE	SAFETY YELLOW

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ISSUE	DATE	BY	DESCRIPTION
0	5/3/23	JM	CERTIFIED FOR CONST.

SUMMIT CARBON SOLUTIONS  
CUSTOMER: 200-000161  
PROJECT NAME: PINE LAKE CORN PROCESSORS STATION  
BUILDING TYPE: 120'-0" COMPRESSOR BUILDING  
LOCATION: BOY

CUSTOMER PO#: 9501  
PROJECT NAME: PINE LAKE CORN PROCESSORS STATION  
BUILDING TYPE: 120'-0" COMPRESSOR BUILDING  
LOCATION: BOY

6/5/23  
JUDSON D. SMITH  
9501  
IOWA  
LICENSED PROFESSIONAL ENGINEER

JOB #: 4486  
188583  
DRAWN BY:  
DATE:  
CHKD BY:  
DATE:  
SCALE: N.T.S.  
COVER SHEET  
DWG # C1 of 3

**FRAMED OPENINGS:**

Framed openings and applicable trims (Head, Jamb, Sill, and Two-Piece flat flashing) are included for Accessories that are provided by USSI as noted in the "Building Accessories" section of this quote and the following:

- F1 1 1'-6" W x 1'-0" H framed opening for Cable Tray penetration by others with head, jamb, sill trim and two-piece flat flashings as required.
- F2 1 4'-6" W x 1'-0" H framed openings for Cable Tray penetration by others with head, jamb, sill trim and two-piece flat flashings as required.
- F3 2 1'-8" W x 1'-8" H framed openings for 8" Diameter Pipe penetration by others with head, jamb, sill trim and two-piece flat flashings as required.
- F4 4 3'-6 W x 2'-7 3/4" H framed openings for 8" & 12" Diameter Pipe penetrations by others with head, jamb, sill trim and two-piece flat flashings as required.
- F5 2 4'-2" W x 3'-6 1/2" H framed openings for 8" & 18" Diameter Pipe penetrations by others with head, jamb, sill trim and two-piece flat flashings as required.
- F6 1 2'-0" W x 1'-6" H framed openings for Cable Tray penetration by others with head, jamb, sill trim and two-piece flat flashings as required.

**MATERIAL CHECK-IN:**

Any damage observed due to shipping must be documented on the Bill of Lading and a copy of the BOL provided to USSI. Any damage must be documented with photos and sent to the USSI project manager and/or purchasing agent upon discovery and USSI will determine if materials should be shipped back for repair or replacement.

All material must be checked in using the complete Bill of Materials and Packing Lists from each trailer. Shortages, though not expected, should be noted and notice shall be provided to USSI immediately.

**MATERIAL STORAGE:**

The weather protection provided with the materials is intended for shipping protection and short term storage.

Upon unloading, all material and accessories must be stored above ground level.

Electrical components shall be loosely tarped to minimize precipitation and condensation accumulation.

Temporary weather protection for accessories, sheeting, trim, insulation, consumables such as fasteners, caulk, and tape seal, shall be provided and maintained by the onsite company responsible for the materials.


Discretion shall be used onsite regarding protection of other materials. The building steel will weather and develop some rust when stored onsite, but it typically, is not feasible to add covering and should not be a cost for the contractor or erector to provide coverings.

**MISFABRICATIONS / MISFITS:**

USSI MUST be provided the immediate opportunity to assist in any troubleshooting and any repair or replacement decisions. The erector will be requested to provide piece marks of the material affected as well as photo documentation in order to help develop a solution. Contact the USSI PM and/or Manager of Production.

Per AISC – The correction of minor misfits by moderate amounts of reaming, grinding, welding or cutting, and the drawing of elements into line with drift pins, shall be considered to be normal erection operations. Errors that cannot be corrected using the foregoing means, or that require major changes in member or connection configuration, shall be promptly reported to USSI by the erector, to enable the responsible entity to either correct the error or approve the most efficient and economical method of correction to be used by others.

**CERTIFIED FOR  
CONSTRUCTION**

**UNITED STEEL STRUCTURES**  
the sound science company  
1300 INCLAVE PARKWAY, SUITE 400  
OFFICE: (817) 484-1300  
FAX: (817) 484-1304  
www.usssteel.com

BY	DATE	DESCRIPTION	ISSUE	CUSTOMER:	SUMMIT CARBON SOLUTIONS
JM	5/31/23	CERTIFIED FOR CONST.	0	CUSTOMER PO#:	200-000161
				PROJECT NAME:	PINE LAKE CORN PROCESSORS STATION
				BUILDING TYPE:	120'-0" COMPRESSOR BUILDING
				LOCATION:	10001 BOYD AVE, SUITE 200, BOYD, IA 50002

  
JUDSON D. SMITH  
9501  
IOWA  
6/5/23

JOB #:	4486
DRAWN BY:	188583
DATE:	
CHKD BY:	
DATE:	
SCALE:	N.T.S.
COVER SHEET	
DWG #	C2 of 3

Filed with the Iowa Utilities Board on September 21, 2023, HL P 2024 0001

GENERAL NOTES

1. The seal that appears on these drawings is the seal of the engineer for this building manufacturer who is NOT the engineer of record.
2. This building manufacturer is not responsible for errors, omissions or damages incurred in the erection of building components, nor for the inspection of erected components to ascertain same.
3. Temporary bracing must be installed by erector to provide adequate stability during erection. Bracing indicated on the erection drawings is critical to the stability of the completed structure and shall not be removed.
4. Wall and liner panels are an integral part of the structural system. Unauthorized removal of panels is prohibited.
5. "Oil-canning", a perceived waviness inherent to light gauge metal, may exist. This condition does not affect the finish or structural integrity of the panel, and is therefore not a cause for rejection.
6. Trim part marks are as shown: ex. R1-32"-20"-2"

APPROVAL NOTES

- The following conditions apply in the event that these drawings are used as approval drawings:
- A) It is imperative that any changes to these drawings:
- 1) Be made in contrasting ink.
  - 2) Have all instances of change clearly indicated.
  - 3) Be legible and unambiguous.
- B) Dated signature is required on all pages.
- C) Manufacturer reserves the right to re-submit drawings with extensive or complex changes required to avoid misfabrications. This may impact the delivery schedule.
- D) Approval of these drawings indicates conclusively that the manufacturer has correctly interpreted the contract requirements, and further constitutes agreement that the building as drawn, or as drawn with indicated changes represents the total of the materials to be supplied by manufacturer.
- E) Any changes noted on the drawings not in conformance with the terms and requirements of the contract between manufacturer and its customer are not binding on manufacturer unless subsequently specifically acknowledged and agreed to in writing by change order or separate documentation. Manufacturer recognizes that rubber stamps are routinely used in indicating approval, disapproval, rejection, or mere review of the drawings submitted. However, manufacturer does not accept changes or additions to contractual terms and conditions that may appear with the use of a stamp or similar indication of approval, disapproval, etc. Such language applied to the manufacturer's drawings by the customer, architect, engineer, or any other party will be considered as unacceptable alterations to these drawing notes, and will not alter the contractual rights and obligations existing between manufacturer and its customer.

SAFETY COMMITMENT

The building manufacturer has a commitment to manufacture quality building components that can be safely erected, however, the safety commitment and job site practices of the erector are beyond the control of the building manufacturer. It is strongly recommended that safe working conditions and accident prevention procedures should be known to all employees. Daily meetings highlighting safety procedures are also recommended. The use of hard hats, rubber sole shoes for roof work, proper equipment for handling material, and safety nets where applicable, are recommended.

BOLT TIGHTENING

The proper tightening and inspection of all fasteners is the responsibility of the erector. All high strength (A325, A490) bolts and nuts must be tightened by the "turn-of-the-nut" method unless otherwise specified by the end customer in the contract documents. Inspection of high strength bolt and nut installation by other than the erector shall also be specified in the contract documents and the erector is responsible for ensuring that the installation and inspection procedures are compatible prior to the start of erection. (MBMA 2006 iv 6.9)

BUILDER/CONTRACTOR RESPONSIBILITIES

It is the responsibility of the builder/contractor to insure that all project plans and specifications comply with the applicable requirements of any governing building authorities. The supplying of sealed engineering data and drawings for the metal building system does not imply or constitute an agreement that the building manufacturer or its design engineer is acting as the engineer of record or design professional for a construction project. The contractor must secure all required approval and permits from the appropriate agency as required. Approval of the manufacturer's drawings and calculations indicate that the building manufacturer correctly interpreted and applied the requirements of the contract drawings and specifications. (sect. 4.1 AISI code of standard practices, 13th ed.) Where discrepancies exist between the manufacturer's structural steel plans and the plans for other trades, the structural steel plans shall govern. (sect. 3.3 AISI code of standard practice 13th ed.) Design considerations of any material in the structure which are not furnished by the building manufacturer are the responsibility of the contractor and engineers other than the building manufacturer's engineer unless specifically indicated. The contractor is responsible for all erection of steel and associated work in compliance with the building manufacturer's "for erection installation" drawings. Products shipped to builder or his customer shall be inspected by builder immediately upon arrival. Claims for shortages or defective material, if not packaged, must be made to the manufacturer in writing within five (5) days after receipt of the shipment. However, if a defect is of such nature that reasonable visual inspection would fail to disclose it, then the claim must be made within five (5) days after the builder learns of the defect. The manufacturer will not be liable for any defect unless claim is made one (1) year after date of the original shipment by the manufacturer to builder or his customer. The manufacturer will be given a reasonable opportunity to inspect defective materials upon receipt of claim by builder. If a defect is of such nature that it can be remedied by a field operation at the job site without the necessity of returning the material to the manufacturer, then upon written authorization of the manufacturer, the builder may repair or cause the material to be repaired and the manufacturer will reimburse the builder for the cost of the repair in accordance with the written authorization. Unless noted otherwise, all bracing as shown and provided by the manufacturer for this building is required and shall be installed by the erector as a permanent part of the structure. Temporary supports, such as temporary guys, braces, false work, cribbing or other elements required for the erection operation will be determined and furnished and installed by the erector. These temporary supports will secure the steel framing, or any partly assembled steel framing, against loads comparable in intensity to those for which the structure was designed, resulting from wind, seismic forces and erection operations, but not the loads resulting from the performance of work by or the acts of others, nor such unpredictable loads as those due to terrorism, explosion, or corrosion. (sect. 7.10.3 AISI code of standard practice, 13th ed.) Design of gutter and downspout is a function of the rainfall intensity and area to be drained. Design parameters utilized are in accordance with the 2006 low rise building systems manual and/or the 12th edition of the architectural graphic standards, as applicable. Proper owner maintenance dictates that the drainage system be kept free of debris and/or ice at all times to ensure proper function of the gutter and downspout. In those cases where the owner/tenant of a property is unwilling or unable to provide proper maintenance, elimination of gutter should be considered as an alternative.

PRODUCT CERTIFICATION

The building manufacturer is member of the Metal Building Manufacturers Associations. The building manufacturer's fabrication and products are covered by one or more of the following certification:

1. Approved fabricator of prefabricated buildings and components. Reference IASMB-205
2. City of Houston approved fabricator (registration no. 964)

**International Building Code (IBC)** Material properties of steel plate used in the fabrication of primary rigid frames, and primary structural exclusive of cold-formed sections, conform to ASTM-A529 or A-572. Flanges with thickness of 1" or less and width of 12" or less conformed to A-529 with min. yield point of 50,000 PSI. Flange greater than 12" in thickness and 12" in width conformed to with a min. yield point of 50,000 PSI. Material properties of pipe sections conform to ASTM-A53 type E, Grade B with a min. yield point 35,000. Material properties of hot rolled steel members conform to the requirements of ASTM-A992 or A-572 with a min. yield point of 50,000 PSI. Material properties of cold formed light gauge steel members conform to ASTM-A1011 Grade 55 with a min. yield point of 55,000 PSI. Material properties of roof/wall sheeting, base material conform to ASTM-A792 Grades 50 or 80 with min. yield point of 50,000 PSI on 80,000 PSI respectively, as required by design Coating & base material is 55K aluminum-zinc alloy in accordance with A255 for unpainted or A250 for painted specification. Cable utilized for bracing conforms to ASTM A475. Cable bracing is to be installed with all contact with roof & angle utilized for bracing members conforming to ASTM A36. Structural joints with ASTM A-325 high strength bolts, where indicated on the drawings, shall be assembled and the fasteners tightened in accordance with the bolt tightening procedure per MBMA '96 IV 6.9. All joints will be assembled without washers unless otherwise noted. All steel members except bolts, fasteners & cable shall receive one shop coat of iron oxide corrosion inhibitive primer, meeting the performance requirements of SSPC paint Specification #16. Shop & field inspections and associated fees are the responsibility of the contractor, unless stipulated otherwise in the contract.

Packing List: 12345

Ship To: LUIS MARTINEZ  
5487 FM 744  
PAWNE, TX, 75176

Track ID: EXPRESS

Carton ID	Place Mark	Description	Time/Qty	Length	Unit Weight	Gross Weight	Order# - Line# - Cost/PO#
C12890		BUILDING SERVICE	0:00/0			661	
RF1-1		BUILT UP SECTION	2 8' 5-7/16"		124.0	248	12345 1 896790
RF2-2		BUILT UP SECTION	2 8' 7-1/8"		154.0	308	12345 2 896790
RF3-3		BUILT UP SECTION	1 8' 3-7/16"		125.0	125	12345 3 896790
C128945		BUILDING SERVICE	0:00/0			190	
EG-4		ENDWALL COLUMN BX35C16	2 9' 10-15/16"		27.5	55	12345 8 896790
EG-2		ENDWALL COLUMN BX35C16	2 11' 6-7/16"		33.3	67	12345 9 896790
EG-1		ENDWALL RAFTER BX35C14	2 8' 9-5/8"		25.1	50	12345 10 896790
EG-2		ENDWALL RAFTER BX35C14	2 8' 9-5/8"		25.1	50	12345 11 896790
PA12E9697B4		26ga PBR DESERT SAND PANEL SMP	178:00/0			222	
LEFT ENDWALL		26GA PBR ENDWALL PANEL	2 14' 9-1/2"		39.5	79	12345 35 896790
RIGHT ENDWALL		26GA PBR ENDWALL PANEL	2 13' 9-1/2"		37.0	74	12345 36 896790
LEFT ENDWALL		26GA PBR ENDWALL PANEL	2 12' 9-1/2"		34.5	69	12345 41 896790
C127445-BUNDLE ZEE		BUNDLE ZEE	0:00/0			190	
G-1		ZEE 8 X 3-1/8 X 3-1/8 16GA RED OXIDE	4 4' 5-1/2"		12.7	51	12345 17 896790
G-2		ZEE 8 X 3-1/8 X 3-1/8 16GA RED OXIDE	2 12' 7-1/2"		35.0	70	12345 18 896790
G-3		ZEE 8 X 3-1/8 X 3-1/8 16GA RED OXIDE	4 4' 5-1/2"		11.7	47	12345 19 896790
G-4		ZEE 8 X 3-1/8 X 3-1/8 16GA RED OXIDE	1 8' 5-1/2"		22.9	23	12345 20 896790
C12708B-WAREHOUSE		WAREHOUSE BOX 1	0:00/0			222	
R PANEL OUTSIDE CLOSURE STRIP 36"			22		0.0	1	12345 81 896790
TUBE CAULKING SILICONE CLEAR 10.3 OZ TUBE			1		1.1	16	12345 83 896790
12 X 1/4 SELF DRILLING CARBON SCREW LIGHT STONE			210		0.0	12345	91 896790
HW box 1			1			149	
FL-31 26GA EAVE TRIM - (ALL PANELS) - LIGHT			2 20' 2"		13.5	27	12345 58 896790
FL-21 26GA SCULPTURE RAKE END - (R PANEL) LIGHT			4 10' 3"		22.2	89	12345 60 896790
STONE SMP							
FL-10 26GA CORNER TRIM - OUTSIDE (R AND A) PANEL OUTSIDE SAND SMP			4 10' 0"		8.2	33	12345 63 896790

PACKING LIST EXAMPLE

Customer	Job Number	Part Name	Description	Length	Qty
ABC CONSTRUCTION	12345	LEFT ENDWALL	26 GA, PBR SIDEWALL PANEL	14'	9-1/2' 2
07522		LEFT ENDWALL	26 GA, PBR SIDEWALL PANEL	13'	9-1/2' 2
PA12E9697B4		LEFT ENDWALL	26 GA, PBR SIDEWALL PANEL	12'	9-1/2' 2

Carton ID	Job Number	Customer	Job Number
C126431	12345	ABC CONSTRUCTION	12345
RF1-1			

BUNDLE LABEL EXAMPLES

STRAIGHT BILL OF LADING - SHORT FORM - ORIGINAL - NOT NEGOTIABLE

DATE	CARRIER	BILL OF LADING #
10/07/21	JOE TRUCHONG	54521
SHIPPER AND ORIGIN	CONSIGNEE AND DESTINATION	
ABC BUILDINGS 17612 BROWN RD HOUSTON, TX	BOB'S BUILDING c/o LARRY UNDERWOOD 3307 DELTA RD HOUSTON, AL 35023	
Route:	Order # 12345	Ship Status:
Phone: 50562	Order Type: ABC Building	
Trailer # 50562	Order Type: ABC Building	
Freight PO# 41433	Order Type: ABC Building	

COD AMOUNT: \$0.00

# PACKAGES	IND OF PACKAGES, DESCRIPTION OF ARTICLES, SPECIAL MARKS, AND EXCEPTIONS	WEIGHT	CLASS OR RATE
1	LOT MBIC BUILT UP / STRUCTURAL / COLD FORM / PANEL / TRIM / CORNER / 2 BUNDLES OF RED OXIDE ANGLE	35260	
Carrier: Print Name: _____		TOTAL WEIGHT (LBS)	35,260
Tractor #: _____			

RECEIVED subject to the description and the terms in effect on the date of the Bill of Lading, the property described above is in apparent good order, except as noted contents and condition of contents in packages unexamined, marked, consigned and delivered as indicated above, which said carrier (the vessel carrier being indicated throughout this contract) has received from the shipper under the receipt of the shipper and the carrier agrees to the usual place of delivery as said destination, if so noted, otherwise to deliver to another carrier on the route to said destination, it is hereby agreed on each carrier of all or any part of said property one (1) day prior to said destination and is each party of any time thereafter. In all cases and property that every service to be performed hereunder shall be subject to all the terms and conditions of the contract except Bill of Lading and both (1) the Hazardous Waste Classification in effect on the date hereof, (2) the applicable regulations of the Department of Transportation. Any deviation, addition, or variance in the Bill of Lading shall be made with the special notation herein of the party issuing the Bill of Lading shall be without effect in the absence of such notation, and this Bill of Lading shall be enforceable according to its original terms.

THIS MATERIAL MUST BE DELIVERED BY:

Receiver Signature _____	Date Picked Up _____	Time _____
The property described above is in apparent good order, except as noted contents and condition in packages unexamined, marked, delivered, and is in proper condition for transportation according to the applicable regulations of the Department of Transportation.		
Consignee's Signature _____ Date _____		

BILL OF LADING EXAMPLE

Piece Mark	TRIM PIECE LABEL	Job Number
FL-31	12345	
Length	20' 2"	Line Number

BUILT UP, STRUCTURAL AND FAB, COLD FORM LABEL

Carton ID	Job Number	Piece Mark
C126431	12345	RF1-1
ABC CONSTRUCTION		

PIECE LABEL EXAMPLES

CERTIFIED FOR CONSTRUCTION

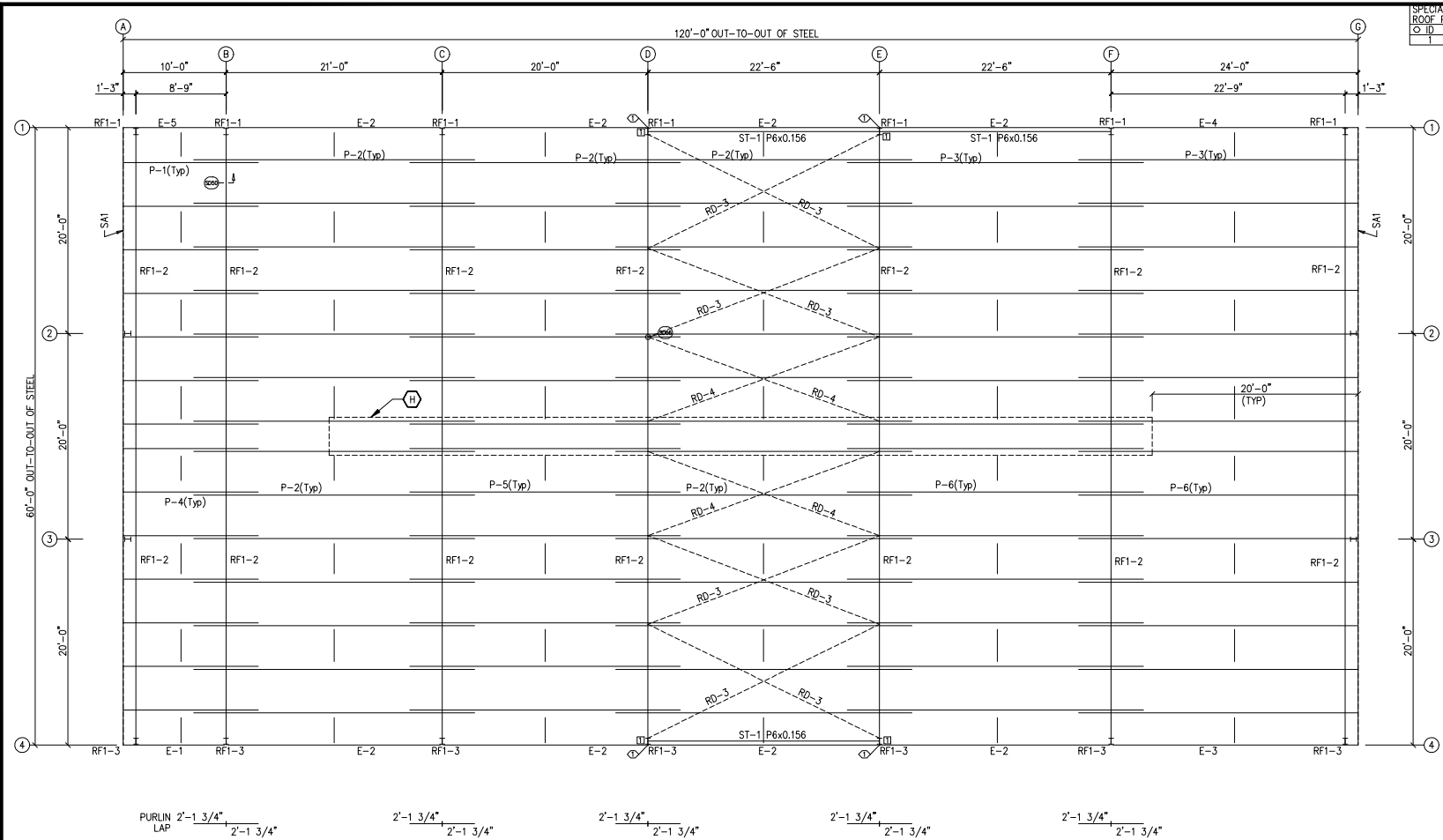
UNITED STEEL STRUCTURES  
the sound science company  
1300 INDIAN PARKWAY, SUITE 400  
HOUSTON, TEXAS 77057  
713.867.2200  
FAX 713.867.2204

BY	DATE	DESCRIPTION	ISSUE
JM	5/31/23	CERTIFIED FOR CONST.	

CUSTOMER	CUSTOMER PO#	PROJECT NAME	BUILDING TYPE
SUMMIT CARBON SOLUTIONS	200-000161	PINE LAKE CORN PROCESSORS STATION	120'-0" COMPRESSOR BUILDING

JUDSON D. SMITH  
9501  
IOWA  
6/5/23

JOB # 4486	188583
DRAWN BY:	
DATE:	
CHKD BY:	
DATE:	
SCALE: N.T.S.	
COVER SHEET	
DWG # C3 of 3	



ROOF FRAMING PLAN  
NO LINER PANEL

SPECIAL BOLTS						
Q ID	QUAN	TYPE	DIA	LENGTH	WASH	
4	A307	1/2"	1 1/4"	0		

MEMBER TABLE	
MARK	PART
P-1	8X35214
P-2	8X35214
P-3	8X35212
P-4	8X35214
P-5	8X35214
P-6	8X35212
RF1-1	8E14
RF1-2	8E14
RF1-3	8E14
RD-3	RD0625
RD-4	RD0500

CONNECTION PLATES	
Q ID	MARK/PART
1	11CL-18

UNITED STEEL STRUCTURES  
the sound science company  
1300 INDIAN PARKWAY, SUITE 400  
EVANSTON, ILLINOIS 60201  
(708) 498-1300  
WWW.UNITEDSTEELSTRUCTURES.COM

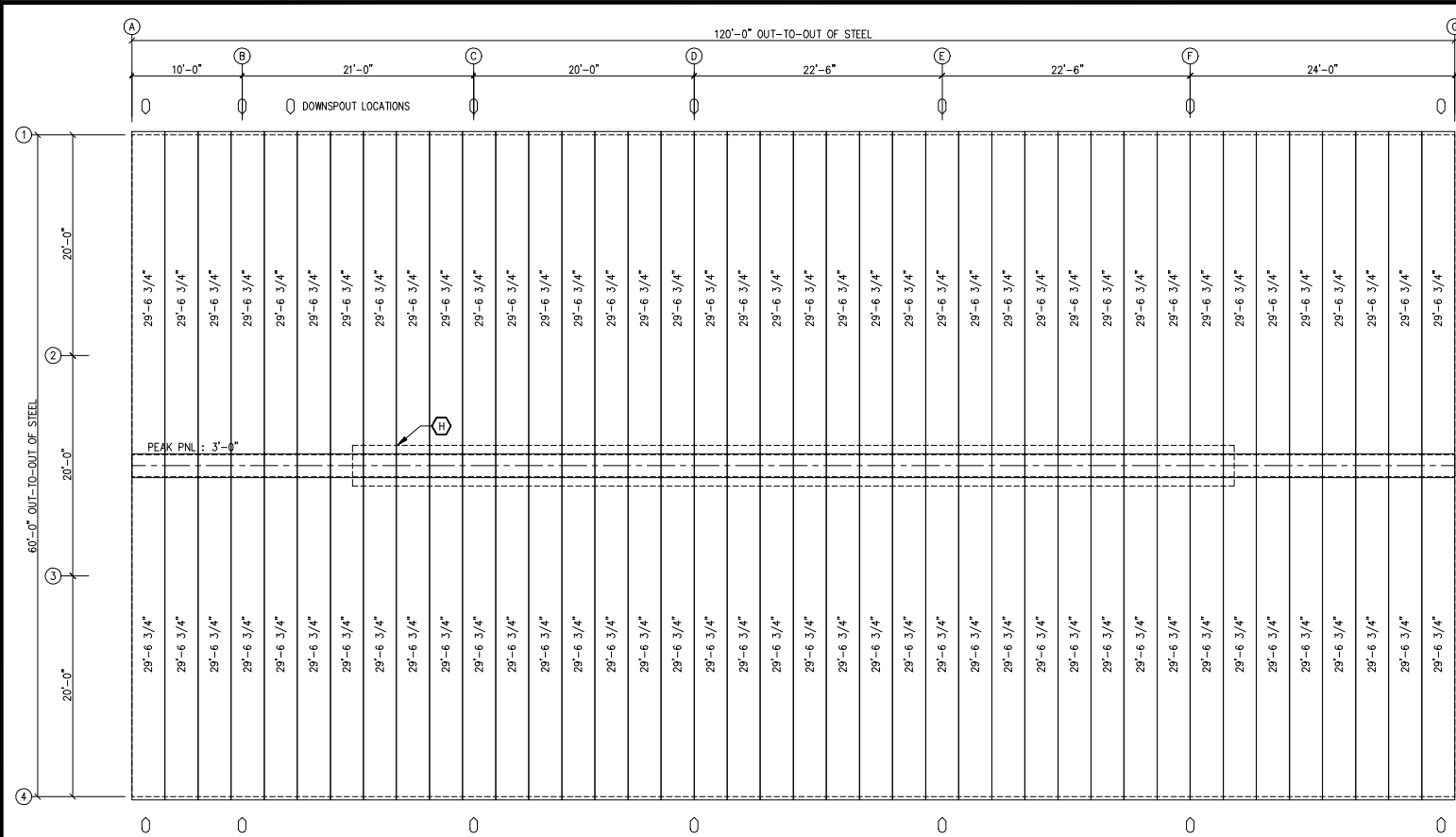
BY	DATE	DESCRIPTION	ISSUE	SUMMIT CARBON SOLUTIONS	CUSTOMER:	CUSTOMER PO#	PROJECT NAME	BUILDING TYPE
JM	5/31/23	CERTIFIED FOR CONST.	0	200-000161	PINE LAKE CORN PROCESSORS STATION	120'-0" COMPRESSOR BUILDING	INDUSTRIAL BLDG	

6/5/23

JOB #	188583
DRAWN BY:	
DATE:	
CHKD BY:	
DATE:	
SCALE:	N.T.S.
ROOF FRAMING PLAN	
DWG #	E1 of 25


CERTIFIED FOR  
CONSTRUCTION

Filed with the Iowa Utilities Board on September 21, 2023, HL P 2024 0001



ROOF SHEETING PLAN  
PANELS: 26 GA. PBR – POLAR WHITE

CERTIFIED FOR  
CONSTRUCTION



UNITED STEEL STRUCTURES  
the sound science company  
1330 INDIAN PARKWAY, SUITE 400  
MILWAUKEE, WI 53215  
TEL: 414.381.8300  
FAX: 414.381.8304

ISSUE	DESCRIPTION	DATE	BY
0	CERTIFIED FOR CONST.	5/31/23	JM


CUSTOMER: SUMMIT CARBON SOLUTIONS

CUSTOMER PO#: 200-000161

PROJECT NAME: PINE LAKE CORN PROCESSORS STATION

BUILDING TYPE: 120'-0" COMPRESSOR BUILDING

LOCATION: BOB STEWART ROAD, STEWART, IA 50082



6/5/23

JUDSON D. SMITH  
9501  
IOWA

JOB #: 4486

188583

DRAWN BY:

DATE:

CHKD BY:

DATE:

SCALE: N.T.S.

ROOF SHEETING PLAN

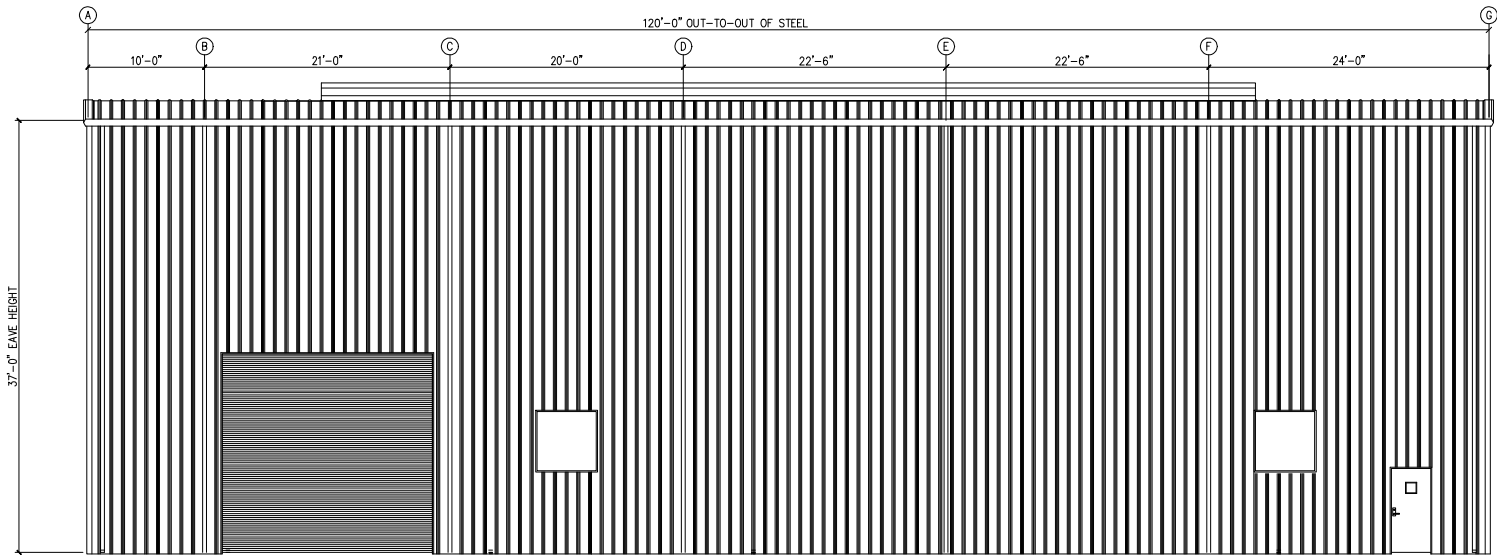
DWG # E2 of

Filed with the Iowa Utilities Board on September 21, 2023, HL P 2024 0001











FRONT SIDEWALL FRAME LINE "4"

CERTIFIED FOR  
CONSTRUCTION



UNITED STEEL STRUCTURES  
a division of  
the sound science company  
1330 ENCLAVE PARKWAY, SUITE 400  
EVANSTON, ILLINOIS 60201  
TEL: 847.321.1300  
FAX: 847.321.1304  
WWW.USSTEELSTRUCTURES.COM

BY	DATE	DESCRIPTION	ISSUE	SUMMIT CARBON SOLUTIONS	CUSTOMER:
JM	5/31/23	CERTIFIED FOR CONST.	0	200-000161	CUSTOMER PO#
				PINE LAKE CORN PROCESSORS STATION	PROJECT NAME
				120'-0" COMPRESSOR BUILDING	BUILDING TYPE
				LOCATION: 600 STEAMBOAT AVENUE, STE 200, EVANSTON, IL 60201	



6/5/23

JOB #: 4486

188583

DRAWN BY:

DATE:

CHKD BY:

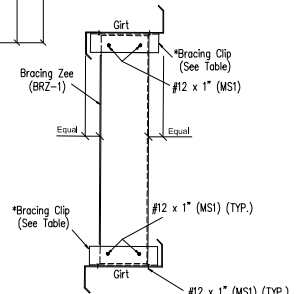
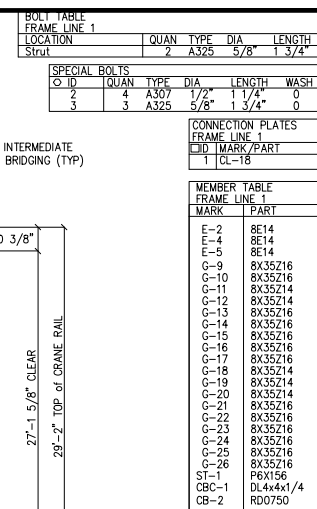
DATE:

SCALE: N.T.S.

SIDEWALL ELEVATION

DWG # E5 of

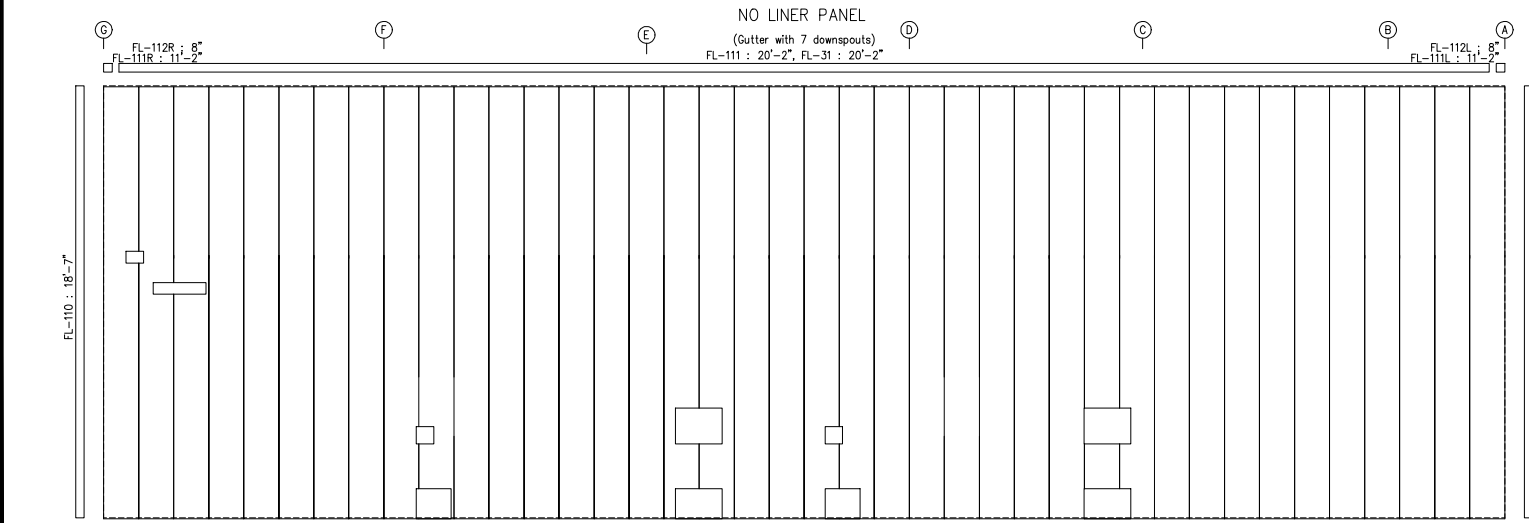
Filed with the Iowa Utilities Board on September 21, 2023, HL P. 2024-0001



NOTE: Sim. Conn. at Base & Eave Strut	
GIRT DEPTH	BRACING CLIP
8"	BRC-7
10"	BRC-9

Note: Bracing Clip locator buttons are to be placed in holes pre-drilled in girts.

Intermediate Girt Bridging  
(Typ. At All Walls)





**GENERAL NOTES:**  
TRIM IS FIGURED WITH 2" TRIM LAP UNLESS NOTED ON A DETAIL.  
FIELD OUT PANELS AT FRAMED OPENINGS, WALKDOORS, AND WINDOWS.  
FORMED BASE TRIM (IF USED) TO BE FIELD MITERED AT CORNERS.  
FIELD SLOT GIRTS AS REQUIRED FOR CABLE BRACE CLEARANCE.

BACK SIDEWALL SHEETING & TRIM: FRAME LINE "1"

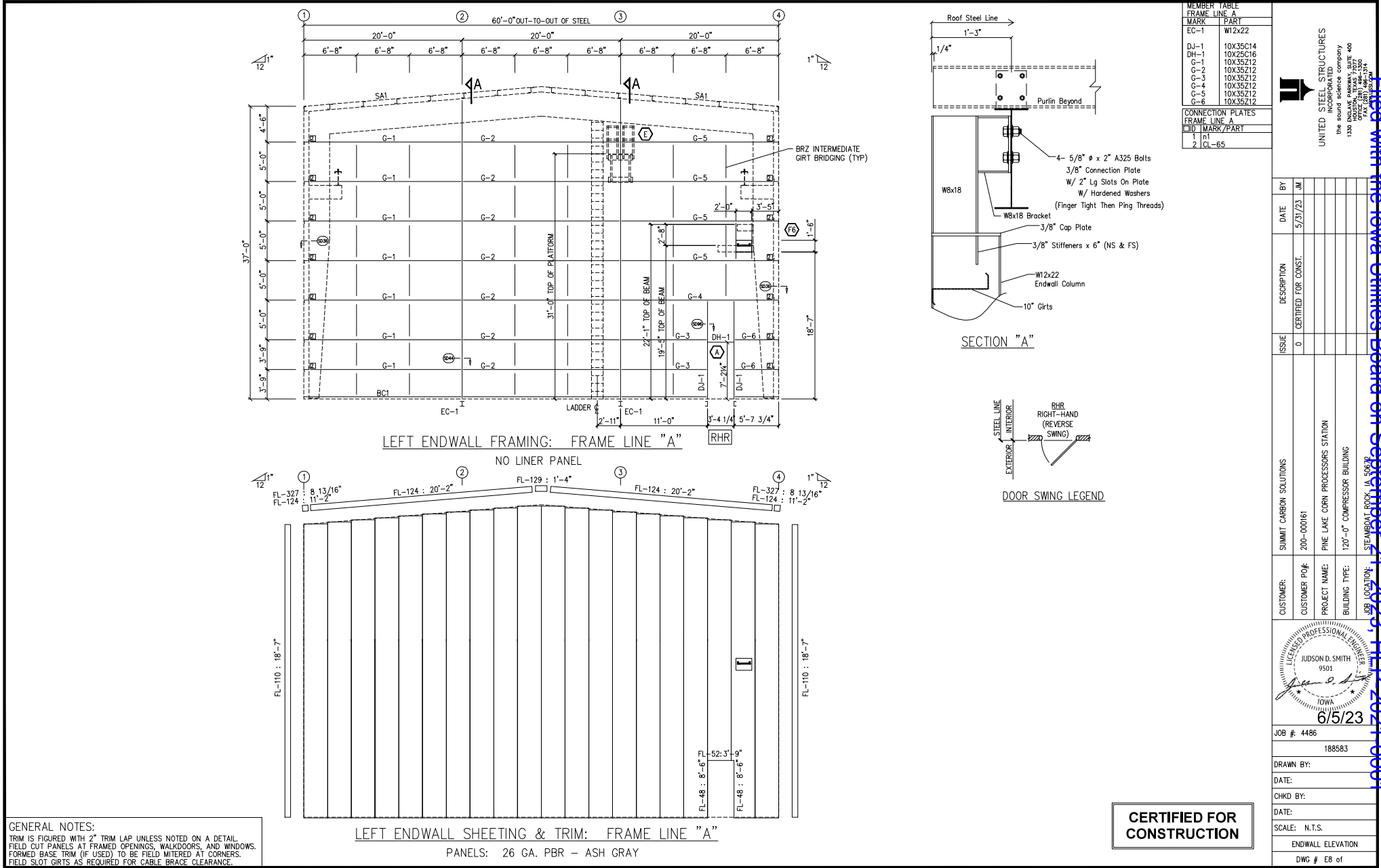
PANELS: 26 GA. PBR - ASH GRAY

**CERTIFIED FOR  
CONSTRUCTION**

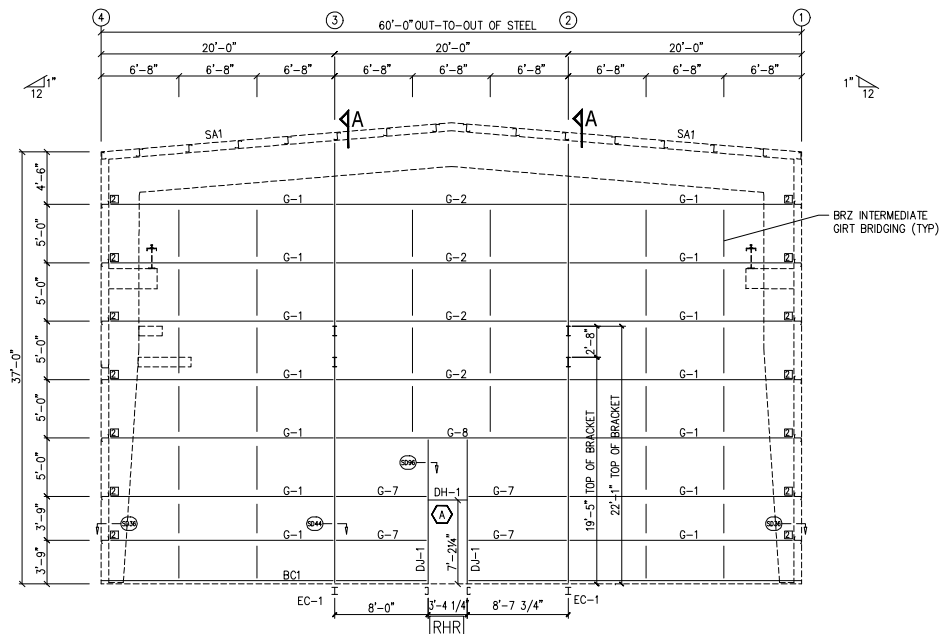
 <b>UNITED STEEL STRUCTURES</b> <b>INCORPORATED</b>		The source science company 13200 Highway 190, Suite 400 Houston, Texas 77033 Tel: (281) 487-4344 Fax: (281) 487-4344	
ISSUE	DESCRIPTION	DATE	BY
0	CERTIFIED FOR CONST.	5/31/23	JM
CUSTOMER:	SUMMIT CARBON SOLUTIONS		
CUSTOMER P.O.#	200-000161		
PROJECT NAME:	PINE LAKE CORN PROCESSORS STATION		
BUILDING TYPE:	120'-0" COMPRESSOR BUILDING		
JOB LOCATION:	STAMBAULT ROCK, LA 50632		
			
JOB #:	4486	188583	
DRAWN BY:			
DATE:			
CHKD BY:			
DATE:			
SCALE:	N.T.S.		
SIDEWALL ELEVATION			
DWG # C6 of			

Filed with the Iowa Utilities Board on September 21, 2023, HL P. 2024-0004

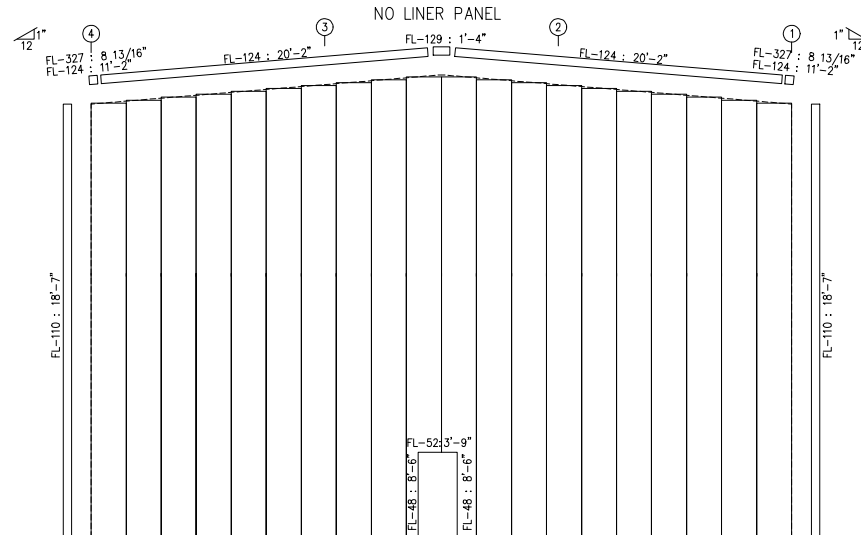






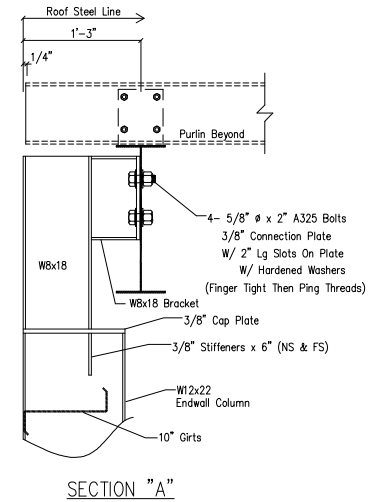


RIGHT ENDWALL FRAMING: FRAME LINE "G"

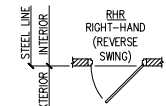


RIGHT ENDWALL SHEETING & TRIM: FRAME LINE "G"

PANELS: 26 GA. PBR - ASH GRAY



SECTION "A"



DOOR SWING LEGEND



MEMBER TABLE	
FRAME LINE H	PART
EC-1	W12X22
DJ-1	10X35C14
DH-1	10X25C16
G-1	10X25Z12
G-2	10X25Z12
G-7	10X25Z12
G-8	10X25Z12

CONNECTION PLATES	
FRAME LINE H	MARK/PART
1	n1
2	CL-65

<p>UNITED STEEL STRUCTURES the sound science company 1300 INDIANAPOLIS AVENUE, SUITE 400 INDIANAPOLIS, IN 46204 773.444.1300 773.444.1301</p>		<p>FILED WITH THE IOWA UTILITIES BOARD ON SEPTEMBER 21, 2023, HL P 2024 0001</p>	
CUSTOMER:	SUMMIT CARBON SOLUTIONS	BY:	JM
CUSTOMER PO#:	200-000161	DATE:	5/31/23
PROJECT NAME:	PINE LAKE CORN PROCESSORS STATION	DESCRIPTION FOR CONST.:	
BUILDING TYPE:	120'-0" COMPRESSOR BUILDING	ISSUE:	0
<p>6/5/23</p> <p>JUDSON D. SMITH 9501 IOWA 6/5/23</p>		<p>CERTIFIED FOR CONSTRUCTION</p>	
<p>JOB # 4486</p>		<p>188543</p>	
<p>DRAWN BY:</p>		<p>DATE:</p>	
<p>CHKD BY:</p>		<p>DATE:</p>	
<p>SCALE: N.T.S.</p>		<p>ENDWALL ELEVATION</p>	
<p>DWG # E10 of</p>			



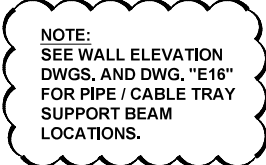


		<b>UNITED STEEL STRUCTURES</b> INCORPORATED the sound science company 1320 EXCHANGE AVENUE, SUITE 400 OFFICE (281) 484-1320 FAX (281) 484-1320 WWW.UNITEDSTEELSTRUCTURES.COM			
CUSTOMER:	SUMMIT CARBON SOLUTIONS	ISSUE	DESCRIPTION	DATE	BY
CUSTOMER PO#:	200-000161	0	CERTIFIED FOR CONST.	5/31/23	JM
PROJECT NAME:	PINE LAKE CORN PROCESSORS STATION				
BUILDING TYPE:	120'-0" COMPRESSOR BUILDING				
JOB LOCATION:	STEWART ROCK, IA 50270				
					
6/5/23					
JOB # : 4486					
188583					
DRAWN BY:					
DATE:					
CHKD BY:					
DATE:					
SCALE: N.T.S.					
ENDWALL ELEVATION					
DWG # E11 of					

FLANGE BRACES: FBxx (1 or 2)  
xx=length(in)  
1) One Side; (2) Two Sides  
A - 2X2X14Ga



## HIGH-STRENGTH BOLT TIGHTENING REQUIREMENTS

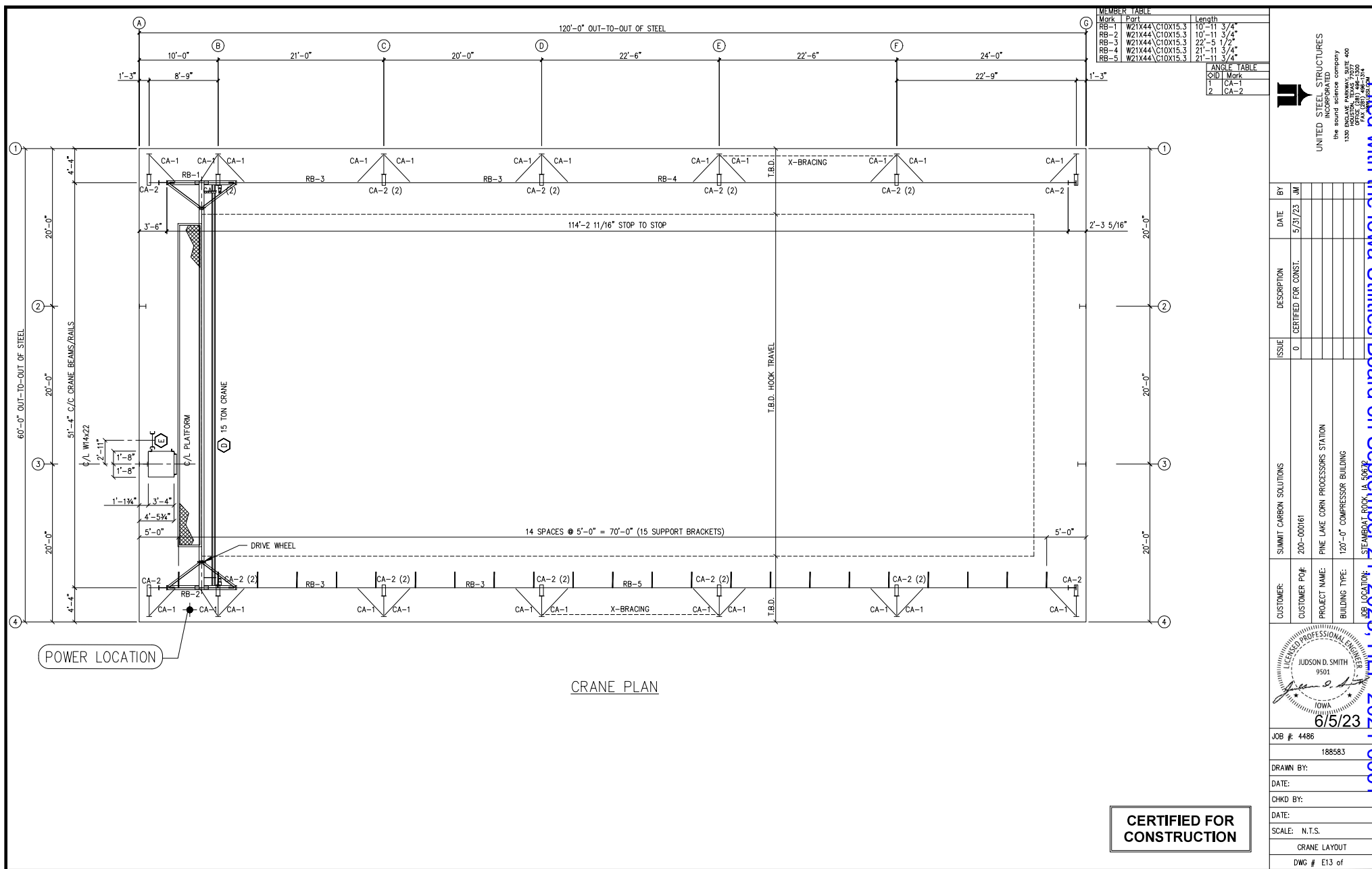
- REFERENCE THE LATEST RCSC EDITION SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS FOR PROPER JOBSITE HANDLING OF BOLTS.

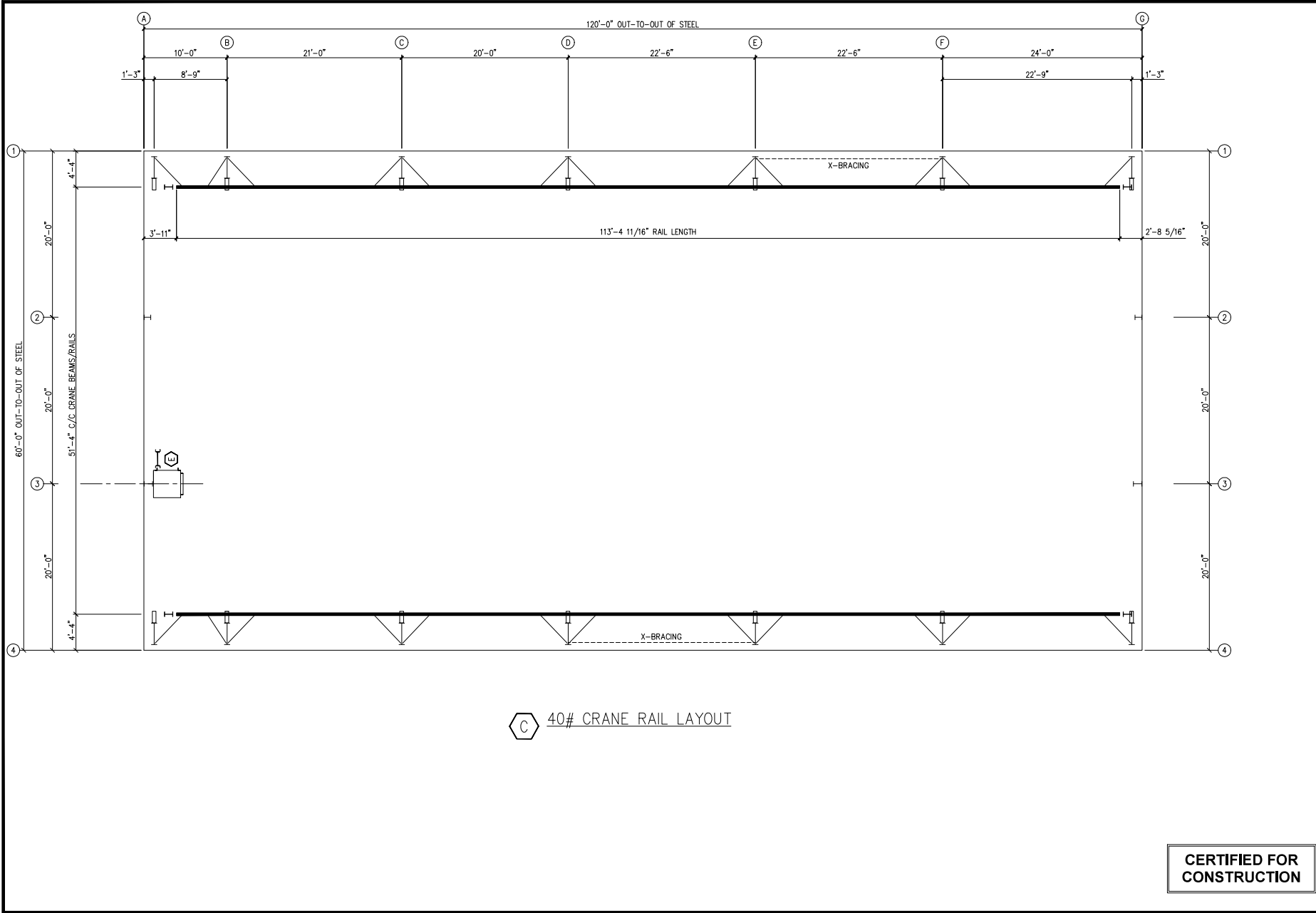



FLOOR MOUNTED DISCONNECT AND  
RUNWAY J-BOX LOCATED @ LINE "A/4"  
AND ARE END USER SUPPLIED  
(NOT BY USSI OR ITS CRANE SUPPLIER)

**CERTIFIED FOR  
CONSTRUCTION**

		<b>JOB #:</b> 4486 <b>DATE:</b> 188543 <b>DRAWN BY:</b> <b>CHKD BY:</b> <b>DATE:</b> <b>SCALE:</b> N.T.S. <b>CROSS SECTION</b> <b>DWG #</b> E12 of		<b>CUSTOMER:</b> SUMMIT CARBON SOLUTIONS <b>CUSTOMER PO#:</b> 200-000161 <b>BUILDING NAME:</b> PINE LAKE CORN PROCESSORS STATION <b>BUILDING TYPE:</b> 120' - 0" COMPRESSOR BUILDING <b>JOB LOCATION:</b> STEAMBOAT ROCK, IA 50677		<b>ISSUE</b> 0 <b>DESCRIPTION</b> CERTIFIED FOR CONST. <b>DATE</b> 5/31/23 <b>BY</b> JMS		 <b>UNITED STEEL STRUCTURES</b> INCORPORATED the sound science company 1300 WASHINGTON BLVD. SUITE 400 MADISON, IN 47707 (317) 252-2244 (800) 451-2244	
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UNITED STEEL STRUCTURES  
the sound science company  
1300 ENCLAVE PARKWAY, SUITE 400  
PITTSBURGH, PA 15201  
724.937.8300  
FAX 724.937.8304

ISSUE	DESCRIPTION	DATE	BY
0	CERTIFIED FOR CONST.	5/31/23	JM

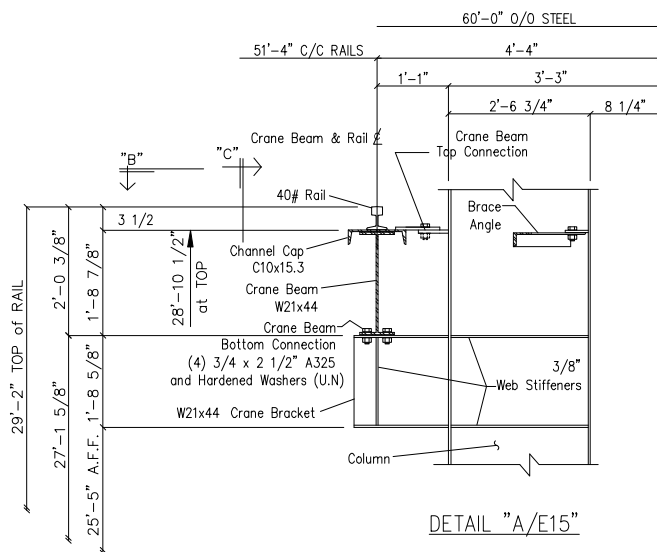
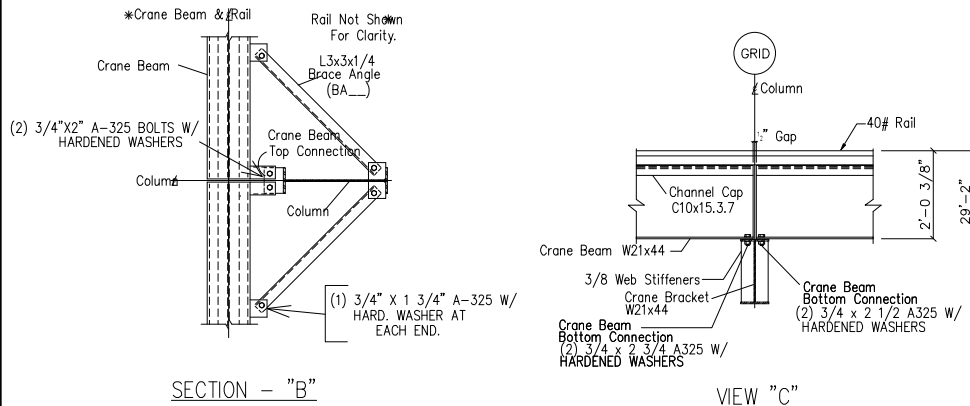
CUSTOMER:	SUMMIT CARBON SOLUTIONS
CUSTOMER PO#:	200-000161
PROJECT NAME:	PINE LAKE CORN PROCESSORS STATION
BUILDING TYPE:	120'-0" COMPRESSOR BUILDING
LOCATION:	STANBOLAT ROCK, IA 50622



6/5/23

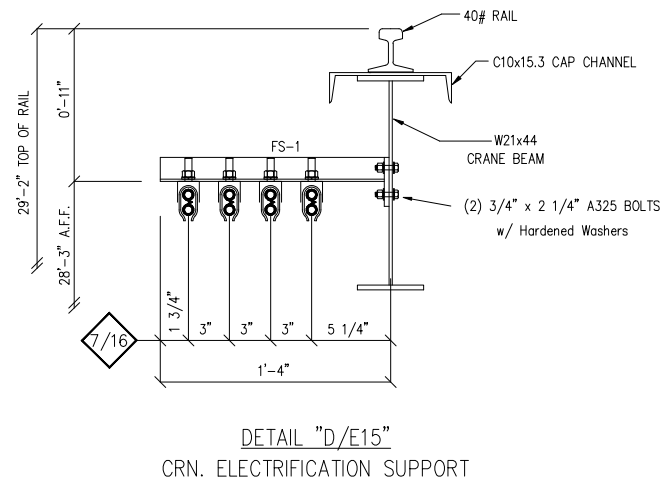
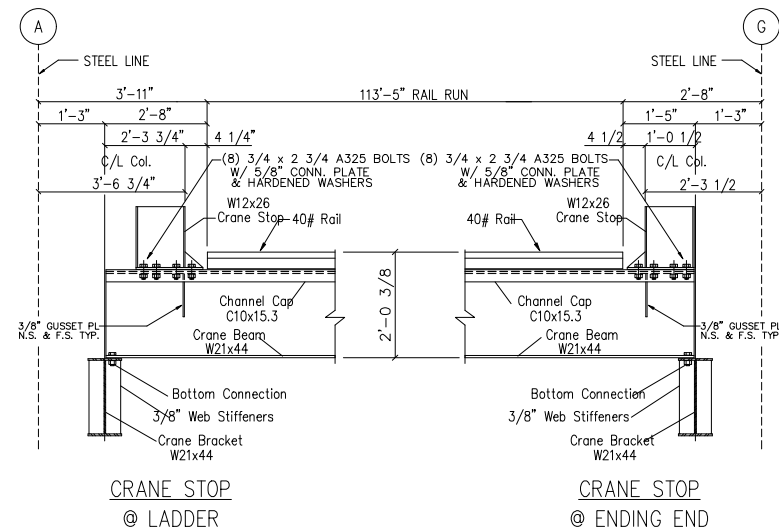
JOB #:	4486
DRAWN BY:	188583
DATE:	
CHKD BY:	
DATE:	
SCALE:	N.T.S.
RAIL LAYOUT	
DWG # E14 of	

Filed with the Iowa Utilities Board on September 21, 2023, HL P 2024 0001



POWER LOCATION @ LINE "4/A"

SPEEDS		CRANE DATA:	VOLTAGE 460-3-60
BRIDGE	HAND GEARED	Capacity 15 TONS	
HOIST	13 FPM VFD	Hoist Weight 1.9 K	
TROLLEY	80 FPM VFD	Bridge Weight 18.5 K	
		Wheel Base 7'-6" FT	
		Max. Wheel Load (NO IMPACT) 20.575k	
		Min. Distance Between Wheels (2 OR MORE CRANES) N/A	
		CONTROL LOCATION: <input checked="" type="checkbox"/> Pendant <input type="checkbox"/> Hand Geared	
		CMAA CLASSIFICATION = C	



**CERTIFIED FOR CONSTRUCTION**

**UNITED STEEL STRUCTURES**  
the sound science company  
1300 INDIAN PARKWAY, SUITE 400  
MILWAUKEE, WI 53215-4000  
TEL: 414.764.1300  
FAX: 414.764.1304  
WWW.UNITEDSTEELSTRUCTURES.COM

**FILED with the Iowa Utilities Board on September 21 2023, HLP 2024 0001**

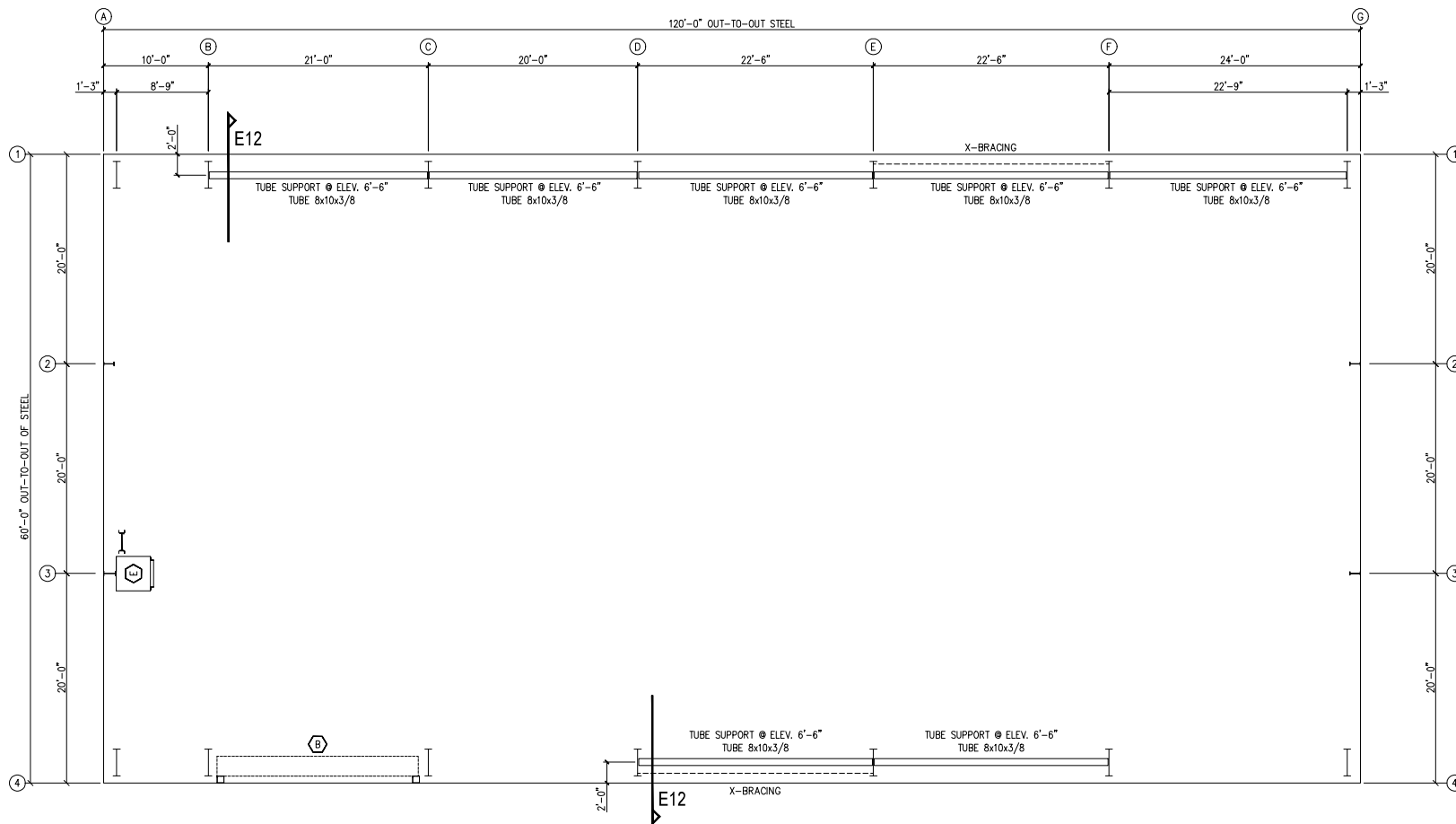
BY	DATE	DESCRIPTION	ISSUE
JM	5/31/23	CERTIFIED FOR CONST.	0

**SUMMIT CARBON SOLUTIONS**  
CUSTOMER: SUMMIT CARBON SOLUTIONS  
CUSTOMER PO#: 200-000161  
PROJECT NAME: PINE LAKE CORN PROCESSORS STATION  
BUILDING TYPE: 120'-0" COMPRESSOR BUILDING  
LOCATION: 600 N. 10TH AVE. SUITE 200  
MILWAUKEE, WI 53215-4000


**6/5/23**

JUDSON D. SMITH  
9501  
IOWA  
LICENSED PROFESSIONAL ENGINEER

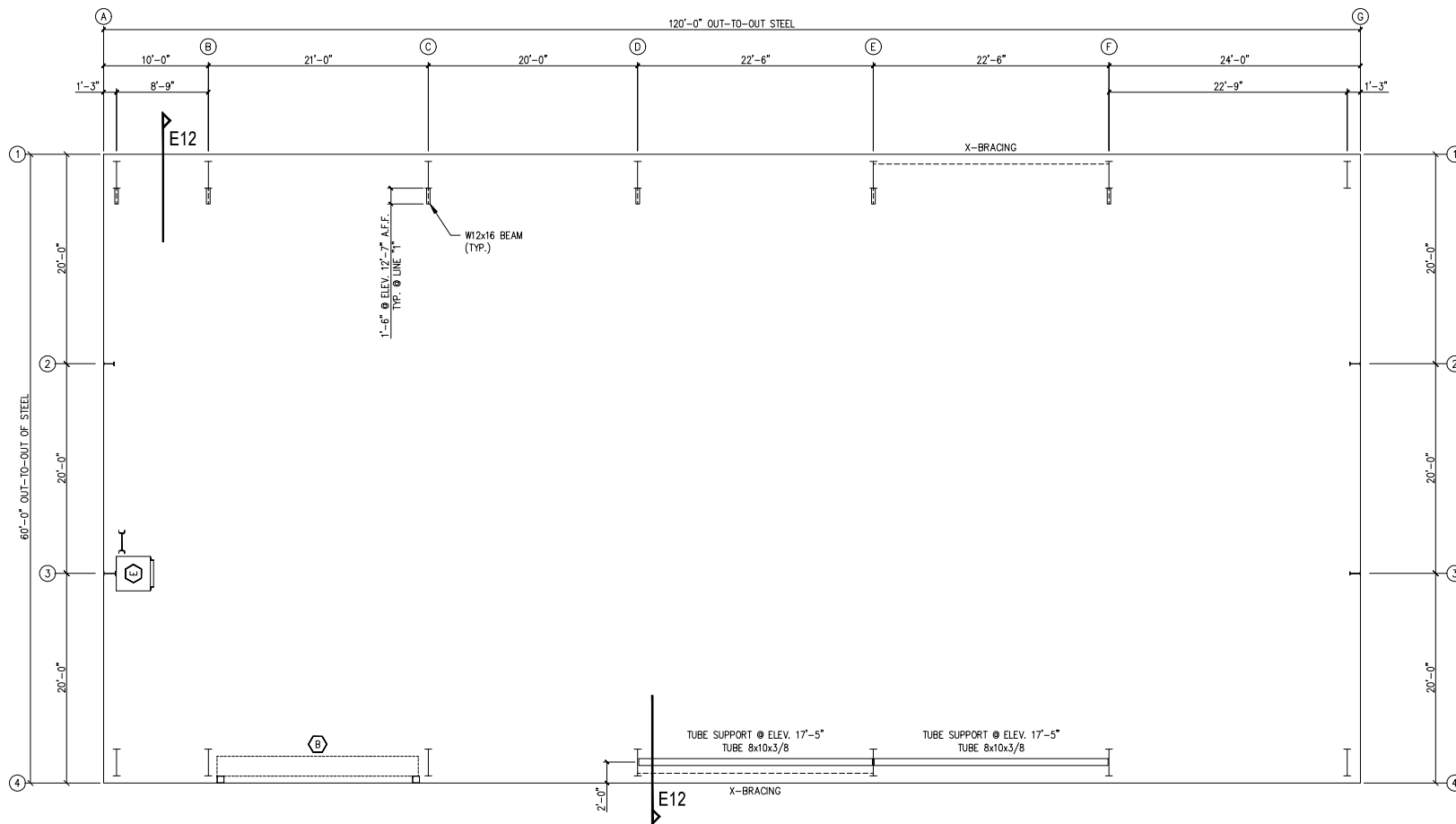
JOB #: 4486  
188583  
DRAWN BY:  
DATE:  
CHKD BY:  
DATE:  
SCALE: N.T.S.  
CRANE DETAILS  
DWG # E15 of





CABLE TRAY / PIPE SUPPORT PLAN  
LOWER LEVEL

		<b>CUSTOMER:</b> SUMMIT CARBON SOLUTIONS		<b>ISSUE</b> 0		<b>DESCRIPTION</b> CERTIFIED FOR CONST.		<b>DATE</b> 5/31/23		<b>BY</b> JM	
<b>JOB #:</b> 4486		<b>CUSTOMER PO#:</b> 200-000161									
<b>DRAWN BY:</b> 188583		<b>PROJECT NAME:</b> PINE LAKE CORN PROCESSORS STATION									
<b>CHKD BY:</b>		<b>BUILDING TYPE:</b> 120'-0" COMPRESSOR BUILDING									
<b>DATE:</b>		<b>JOB LOCATION:</b> STEAMBOAT ROCK, IL 62457									
<b>SCALE:</b> N.T.S.											
<b>BEAM SUPPORT PLAN</b>											
<b>DWG #</b> E16 of											



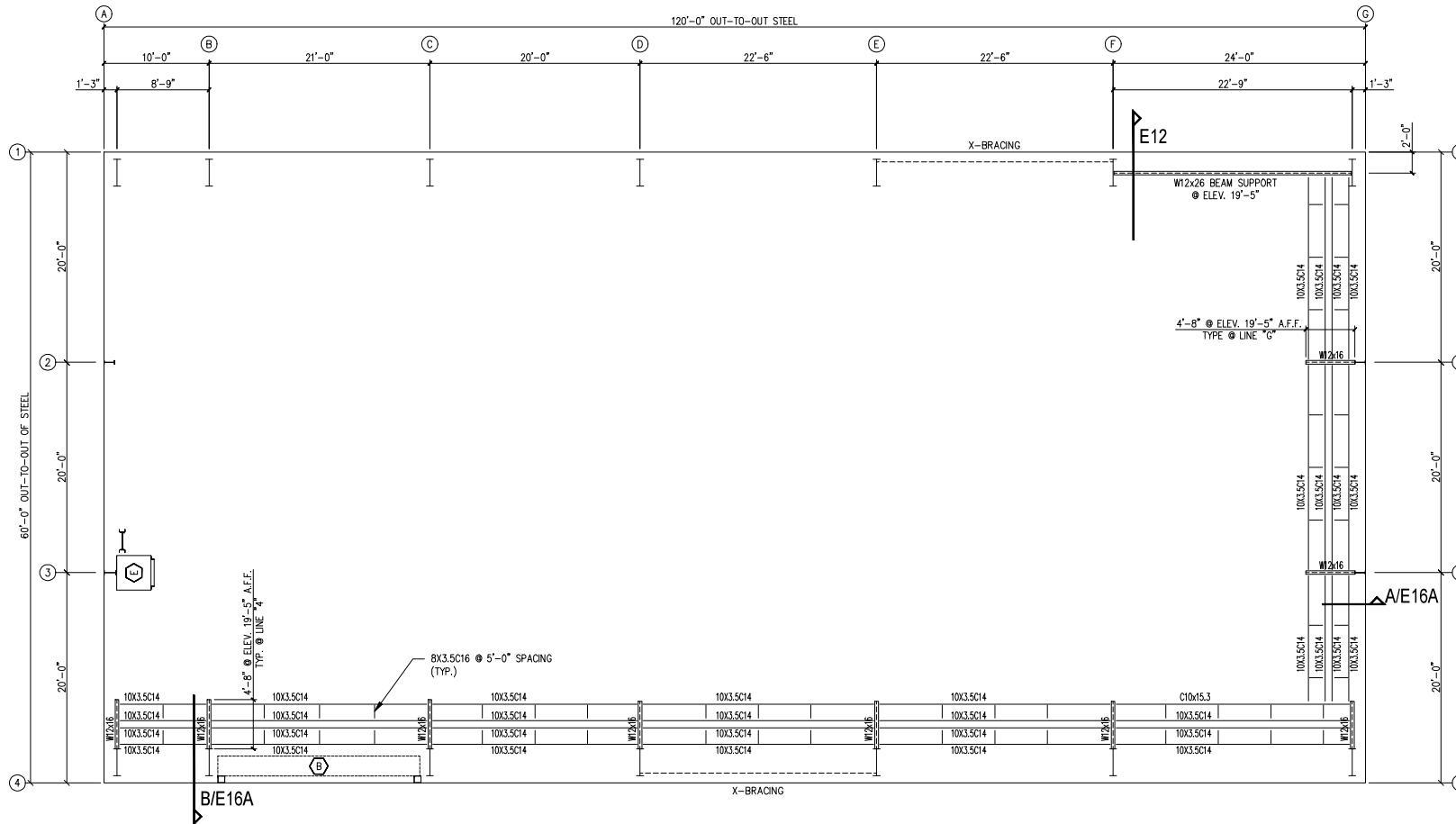


CABLE TRAY / PIPE SUPPORT PLAN  
UPPER LEVEL

<div></div>		<div></div>		<div>UNITED STEEL STRUCTURES the sound science company 1330 INDIANE PARKWAY, SUITE 400 COVINGTON, ILLINOIS 60009 OFFICE (815) 484-1300 FAX (815) 484-1301 WWW.UNITEDSTEELSTRUCTURES.COM</div>					
JOB #:	4486	ISSUE	0	DESCRIPTION		DATE	5/31/23	BY	JM
DRAWN BY:	188583	CUSTOMER:	SUMMIT CARBON SOLUTIONS						
DATE:		CUSTOMER PO#:	200--000161						
CHKD BY:		PROJECT NAME:	PINE LAKE CORN PROCESSORS STATION						
DATE:		BUILDING TYPE:	120'-0" COMPRESSOR BUILDING						
SCALE:	N.T.S.	JOB LOCATION:	STEARNSPORT, ILL 60072						
BEAM SUPPORT SECTIONS		DWG # E16B of							


Filed with the Iowa Utilities Board on September 21, 2023, HL P-2021-0001





CABLE TRAY / PIPE SUPPORT PLAN @ 19'-5" ELEV.

**CERTIFIED FOR CONSTRUCTION**



**UNITED STEEL STRUCTURES**  
the sound science company  
1300 ENCLAVE PARKWAY, SUITE 400  
DES MOINES, IOWA 50319  
TEL: 515.281.1300  
FAX: 515.281.1304  
WWW.UNITEDSTEELSTRUCTURES.COM


**Filed with the Iowa Utilities Board on September 21, 2023, HL P 2024 0001**

ISSUE	DESCRIPTION	DATE	BY
0	CERTIFIED FOR CONST.	5/31/23	JM

CUSTOMER:	SUMMIT CARBON SOLUTIONS
CUSTOMER PO#:	200-000161
PROJECT NAME:	PINE LAKE CORN PROCESSORS STATION
BUILDING TYPE:	120'-0" COMPRESSOR BUILDING




**6/5/23**

JOB #:	4486
DRAWN BY:	188583
DATE:	
CHKD BY:	
DATE:	
SCALE:	N.T.S.
BEAM SUPPORT SECTIONS	
DWG # E16C of	





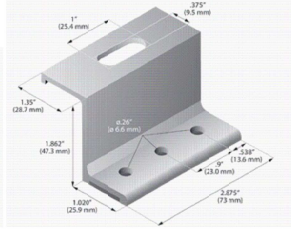
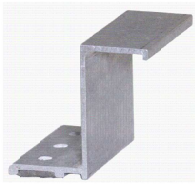

  
 JUDSON D. SMITH  
 9501  
 IOWA  
 6/5/23

JOB #: 4486  
 188583  
 DRAWN BY:  
 DATE:  
 CHKD BY:  
 DATE:  
 SCALE: N.T.S.  
 FALL ARREST SYSTEM  
 DWG # E18 of





### VersaBracket-47™



#### Use With ColorGard®

The ColorGard® Crossmember simply fastens to the VersaBracket™ with self-drilling screws. Select a pre-painted metal color strip of your choice or simply use ColorGard® without a color strip. With or without the color strip, ColorGard® provides functional protection with a great look!

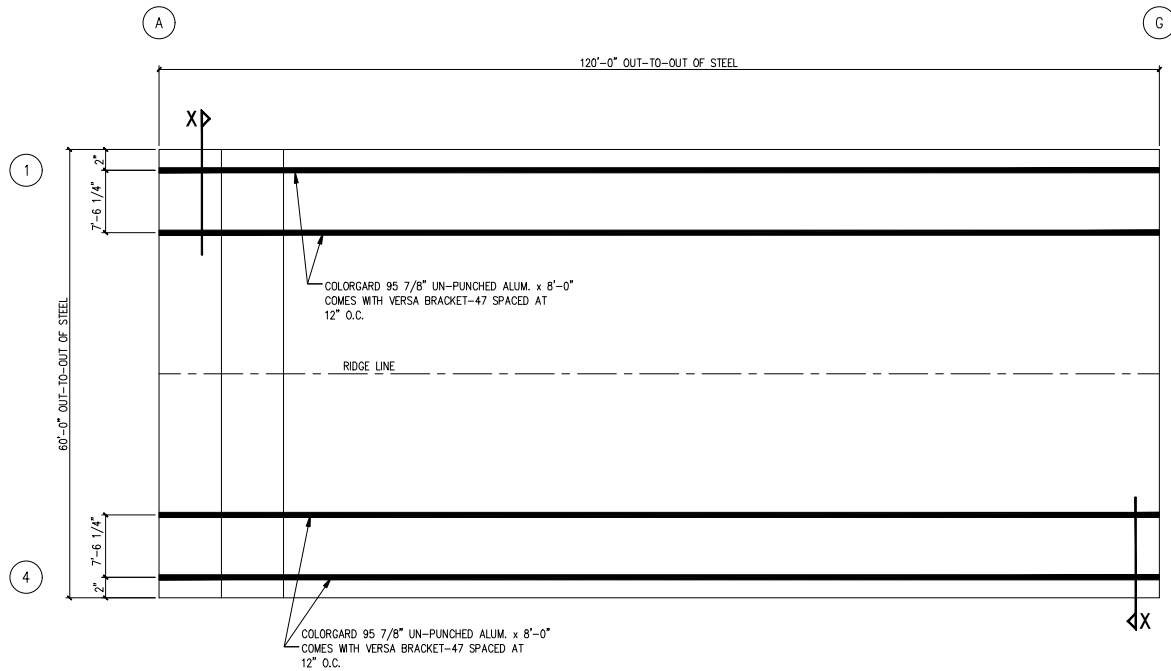
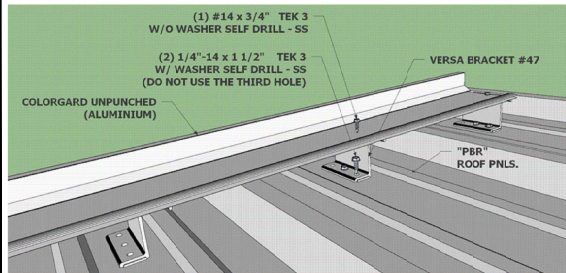


VersaBracket™ and ColorGard® without color strip.

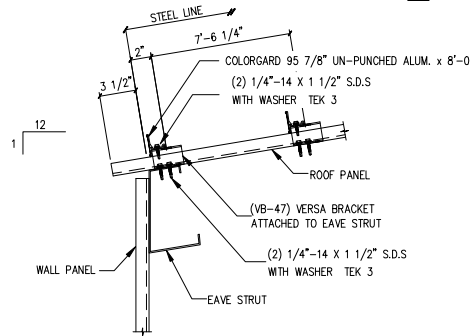
#### Installation Is Simple!



VersaBracket™ is mounted in the flat of the panel, directly into the supporting structure of the roof, i.e. wood decking, wood or steel purlins or trusses. No surface preparation is necessary; simply wipe away excess oil and debris, peel the release paper from the base and apply. Secure through the pre-punched holes using the appropriate screws for the supporting structure.



### F COLORGARD LAYOUT



### F SECTION "X" AT EAVE (LINES "1" & "4")

NOTE:  
ROOF TRIM NOT SHOWN FOR  
CLARITY (TYP.)

**CERTIFIED FOR  
CONSTRUCTION**

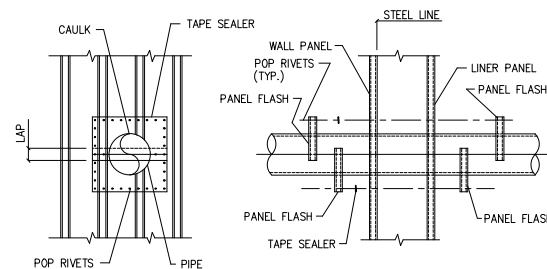
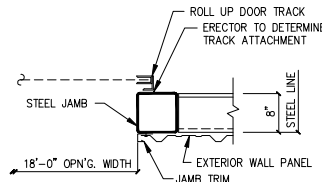
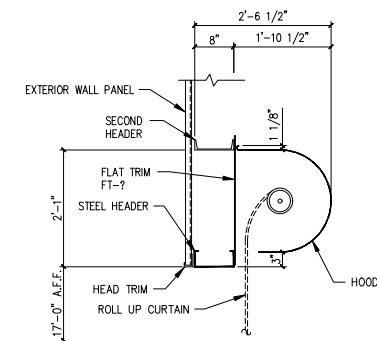
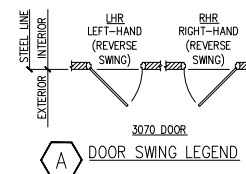
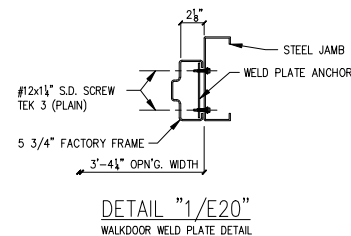
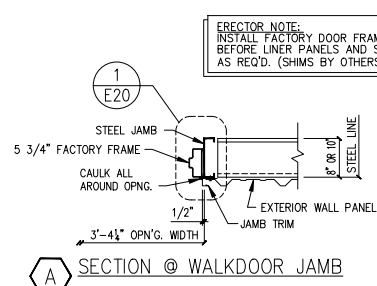
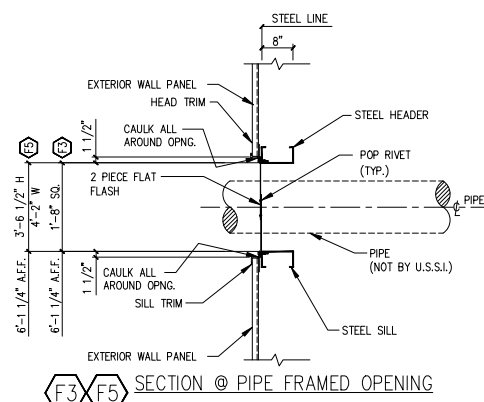
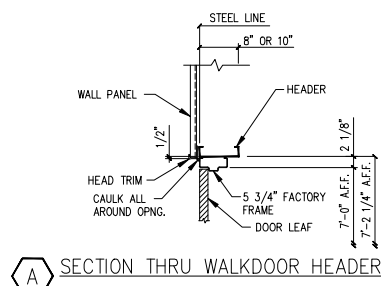
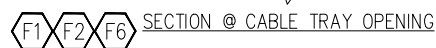


BY	DATE	DESCRIPTION	ISSUE	SUMMIT CARBON SOLUTIONS	CUSTOMER:	PROJECT NAME:	BUILDING TYPE:
JM	5/31/23	CERTIFIED FOR CONST.	0	200-000161	Pine Lake Corn Processors Station	120'-0" COMPRESSOR BUILDING	



JOB #	4486
DRAWN BY:	188583
DATE:	
CHKD BY:	
SCALE:	N.T.S.
COLORGARD DETAILS	
DWG #	E19 of

Filed with the Iowa Utilities Board on September 21, 2023, HL P 2024-0001





ELEVATION @ PENETRATION  
(FOR PIPES 12" OR SMALLER)  
(PIPE PENETRATIONS WITHOUT FRAME)

SECTION THRU WALL

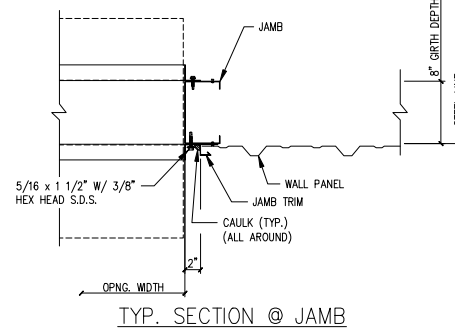
NOTES:

- USE DROP FROM PANELS FOR PANEL FLASHING @ PIPE OPENING
- PROVIDE TAPE SEALER @ PERIMETER OF FLASHING
- CAULK PERIMETER OF PIPE OPENING TO MAKE WEATHERTIGHT

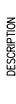
**CERTIFIED FOR  
CONSTRUCTION**

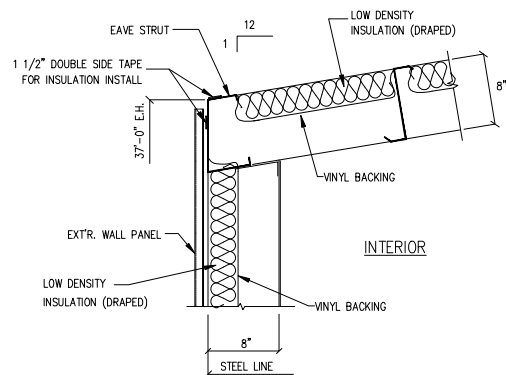
			
JOB # : 4486		UNITED STEEL STRUCTURES INCORPORATED 1300 ENGLAGE PARKWAY, SUITE 400 ROSELAND, IL 62450-1707 TEL: 618.281.8204 FAX: 618.281.8204	
DRAWN BY: 188583			
DATE:		DATE: 5/31/23	
CHKD BY:			
DATE:			
SCALE: N.T.S.			
ACCESSORY DETAILS			
DWG # E20 of			

Filed with the Iowa Utilities Board on September 21, 2023, ILP 2021-0001

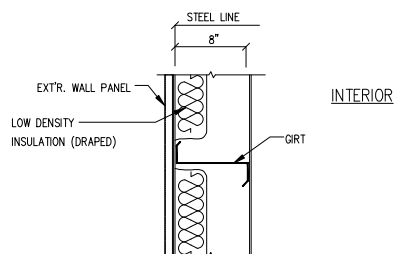


**CERTIFIED FOR  
CONSTRUCTION**

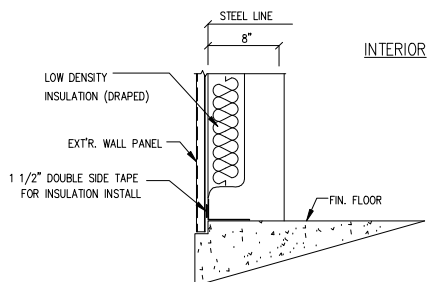
		SUMMIT CARBON SOLUTIONS CUSTOMER:		ISSUE 0		DESCRIPTION CERTIFIED FOR CONST.		BY DATE 5/31/23	
JOB #: 4486		CUSTOMER PO#:		PROJECT NAME:		BUILDING TYPE:		120'-0" COMPRESSOR BUILDING	
188583		DRAWN BY:		DATE:		CHKD BY:		DATE:	
SCALE: N.T.S.		FAN DETAILS		DWG # E21 of		188583		188583	



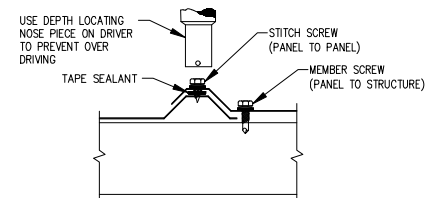
TYP. SECTION @ ROOF & WALL INSULATION






TYP. SECTION @ WALL INSULATION



TYP. SECTION @ BASE WALL INSULATION



APPLY SUFFICIENT TORQUE TO SEAT THE WASHER  
DO NOT OVER DRIVE THE FASTENER

CORRECT	TOO LOOSE	TOO TIGHT
 <p>SEALING MATERIAL SLIGHTLY VISIBLE AT EDGE OF WASHER. ASSEMBLY IS WEATHER TIGHT.</p>	 <p>SEALING MATERIAL NOT VISIBLE. NOT ENOUGH COMPRESSION TO SEAL PROPERLY.</p>	 <p>METAL WASHER DEFORMED, SEALING MATERIAL EXTRUDED BEYOND EDGE OF WASHER.</p>

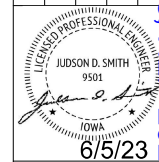
## FASTENER INSTALLATION



**UNITED STEEL STRUCTURES**  
INCORPORATED  
the sound science company  
1330 ENGLAVE PARKWAY, SUITE 400  
HOUSTON, TEXAS 77077  
OFFICE (281) 498-1300  
FAX (281) 498-1314  
E-MAIL: [info@ussa.com](mailto:info@ussa.com)

Filed with the Iowa Utilities Board on September 21, 2023, IUP 2021-0001

CUSTOMER:	SUMMIT CARBON SOLUTIONS	ISSUE	DESCRIPTION	DATE
CUSTOMER PO#:	200-000161	0	CERTIFIED FOR CONST.	5/31/23
PROJECT NAME:	PINE LAKE CORN PROCESSORS STATION			
BUILDING TYPE:	120'-0" COMPRESSOR BUILDING			
JOB LOCATION:	STEAMBOAT ROCK, IA 50670			



JOB #: 4486

188583

DRAWN BY:

DATE:

CHKD BY:

DATE: \_\_\_\_\_

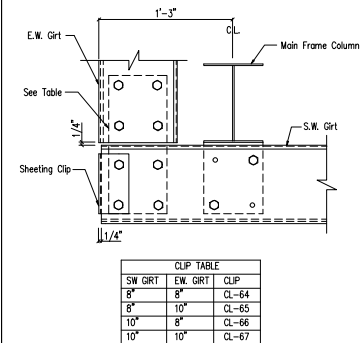
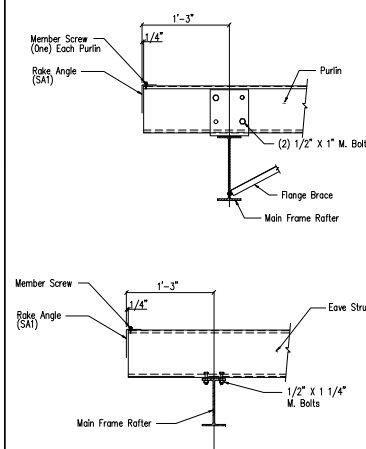
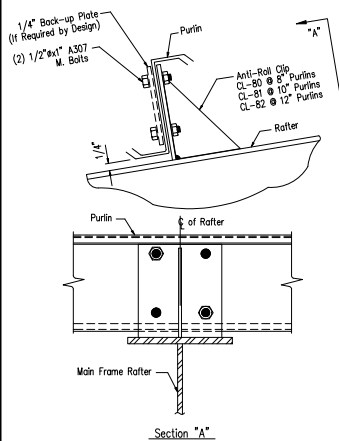
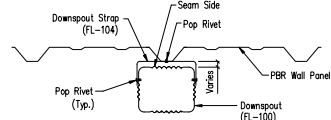
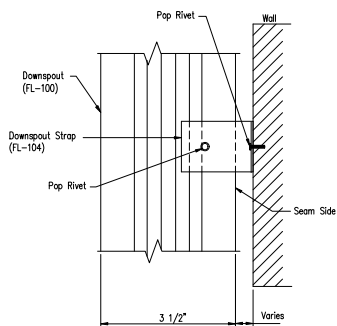
SCALE: N.T.S.

ROOF & WALL INSULATION	
------------------------	--

DWG # E22 of

**CERTIFIED FOR  
CONSTRUCTION**





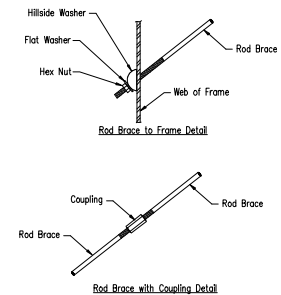
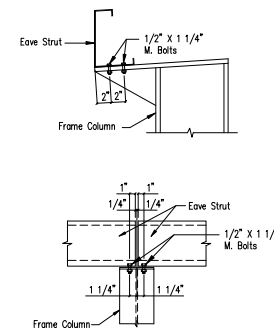
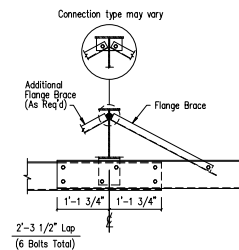
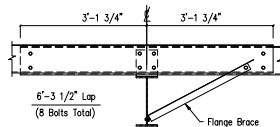
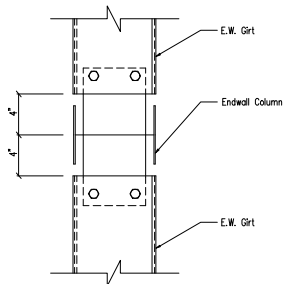
### Downspout Strap Attachment Detail

Downspout Strap Attachment Detail – PBR  
3 1/2" x 5 3/8" Roll-Form

### Purlin to Anti-Roll Clip Connection

### Main Frame Rafter Connection

Section at MF Corner Column  
Flush Endwall



Girt to Hot Rolled Endwall Column Connection

### Interior Bay Purlin Framing

### Interior Bay Girt Framing

Eave Strut at Interior Column  
By-Pass Sidelwall

Rod Brace to Frame Connection

**CERTIFIED FOR  
CONSTRUCTION**



**UNITED STEEL STRUCTURES  
INCORPORATED**

the sound science company

1330 ENGLAVE PARKWAY, SUITE 400  
HOUSTON, TEXAS 77077  
OFFICE (281) 496-1300  
FAX (281) 496-1314  
[www.ussc.com](http://www.ussc.com)

[illegible]

CUSTOMER:	SUMMIT CARBON SOLUTIONS
CUSTOMER PO#:	200-000161
PROJECT NAME:	PINE LAKE CORN PROCESSORS STATION
BUILDING TYPE:	120'-0" COMPRESSOR BUILDING

JOB #:	4486
	188583
DRAWN BY:	
DATE:	
CHKD BY:	
DATE:	
SCALE:	N.T.S.
STANDARD DETAILS	
DWG #	E23 of

Filed with the Iowa Utilities Board on September 21, 2023, HL P-2024-0001

UNITED STEEL STRUCTURES  
the sound science company  
1330 INDIAN PARKWAY, SUITE 400  
DES MOINES, IOWA 50319  
724-253-1000 FAX 724-253-1004

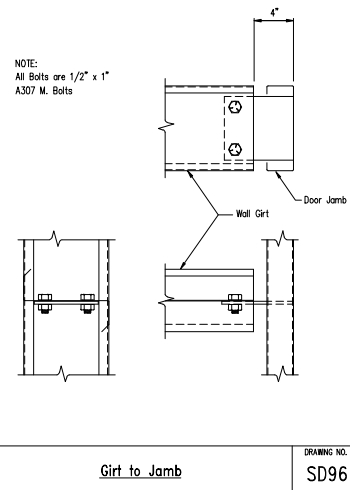
BY	DATE	DESCRIPTION	ISSUE
JM	5/31/23	CERTIFIED FOR CONST.	0

CUSTOMER	PROJECT NAME	BUILDING TYPE
SUMMIT CARBON SOLUTIONS	PINE LAKE CORN PROCESSORS STATION	120'-0" COMPRESSOR BUILDING
200-000161		

PROFESSIONAL ENGINEER  
JUDSON D. SMITH  
9501  
IOWA  
6/5/23

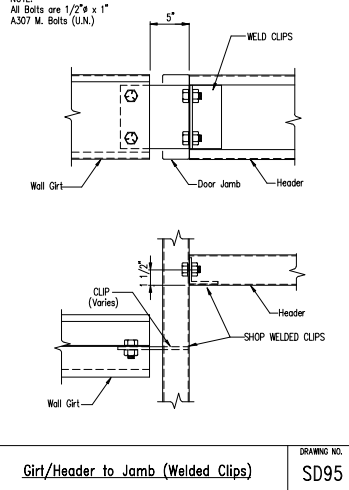
JOB #:	4486
DRAWN BY:	188583
DATE:	
CHKD BY:	
DATE:	
SCALE:	N.T.S.
STANDARD DETAILS	
DWG #:	E24 of

NOTE:  
All Bolts are 1/2" x 1"  
A307 M. Bolts



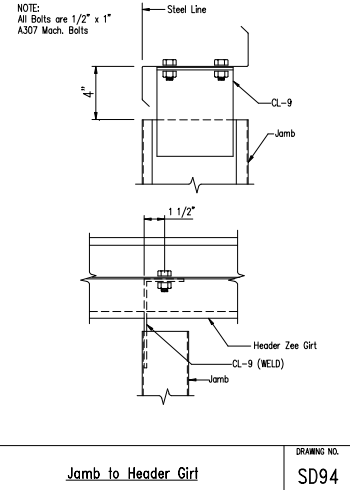
Girt to Jamb SD96

NOTE:  
All Bolts are 1/2" x 1"  
A307 M. Bolts (U.N.)



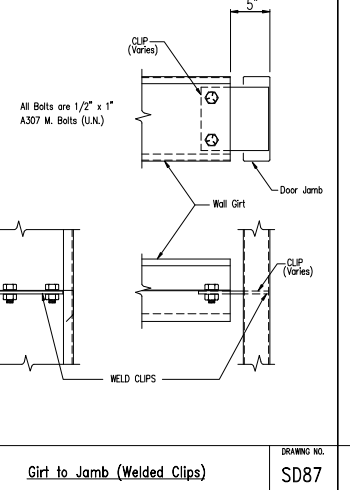
Girt/Header to Jamb (Welded Clips) SD95

NOTE:  
All Bolts are 1/2" x 1"  
A307 Mach. Bolts

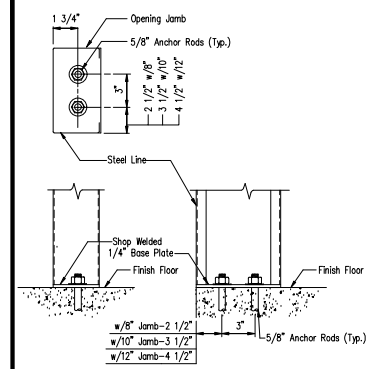


Jamb to Header Girt SD94

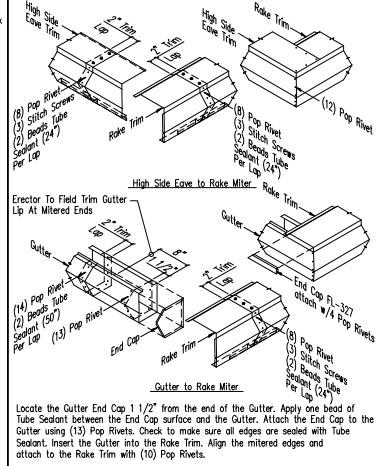
All Bolts are 1/2" x 1"  
A307 M. Bolts (U.N.)



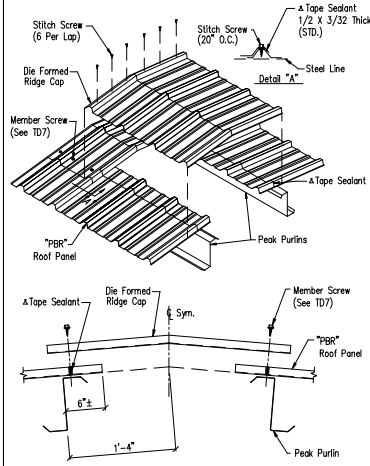
Girt to Jamb (Welded Clips) SD87



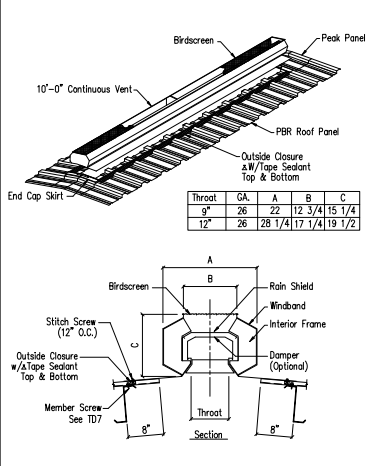
Jamb to Floor SD85



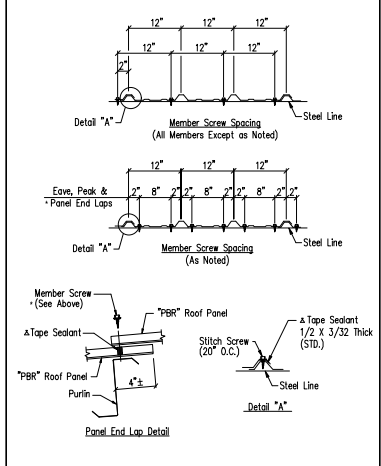
PBR Northern Trim Detail TD12



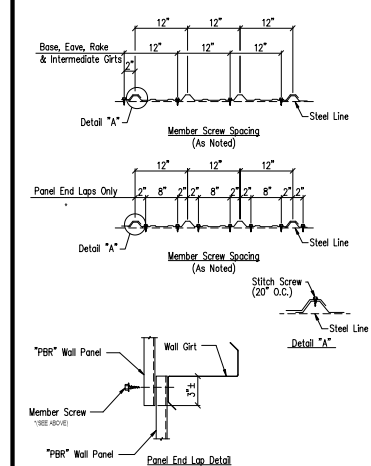
Die Formed Ridge Detail - PBR TD8



Continuous Ridge Ventilators - PBR TD75



Fastener Location "PBR" Panel at Roof TD7



Fastener Location "PBR" Panel at Wall TD1

CERTIFIED FOR  
CONSTRUCTION

Filed with the Iowa Utilities Board on September 21, 2023, HL P 2024-0001

UNITED STEEL STRUCTURES  
the sound science company  
1300 INDIAN PARKWAY, SUITE 400  
PITTSBURGH, PA 15222-1500  
TEL: (412) 837-5300  
FAX: (412) 837-5304

BY  
DATE

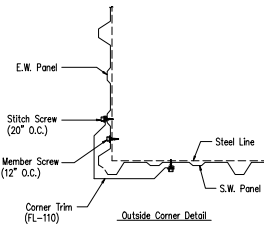
DESCRIPTION  
CERTIFIED FOR CONST.

SUMMIT CARBON SOLUTIONS  
200-000161  
PINE LAKE CORN PROCESSORS STATION  
120'-0" COMPRESSOR BUILDING  
NATION, IOWA

CUSTOMER: PO#  
PROJECT NAME:  
BUILDING TYPE:  
JUDSON D. SMITH  
9501  
IOWA  
6/5/23

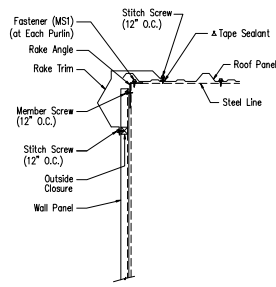
JOB # 4486  
188583  
DRAWN BY:  
DATE:  
CHKD BY:  
DATE:  
SCALE: N.T.S.  
STANDARD DETAILS  
DWG # E25 of

NOTE: Panel start may vary. See panel elevation drawings.



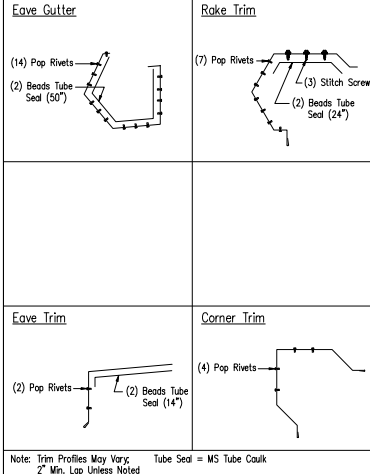
Section at Corner - PBR

DRAWING NO. TD40



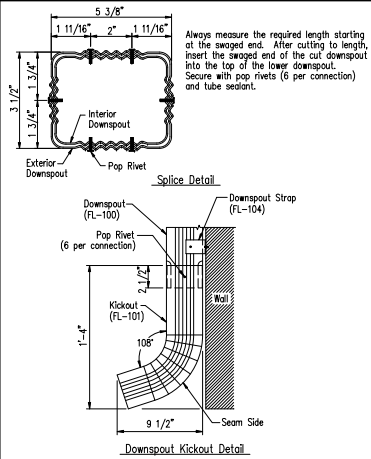
Rake Detail - PBR  
Northern Rake - Sheeted Wall

DRAWING NO. TD136



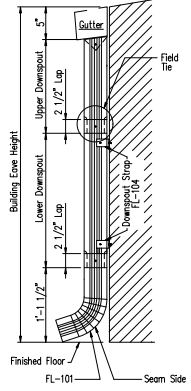
Trim Laps - Standard Profile

DRAWING NO. TD85



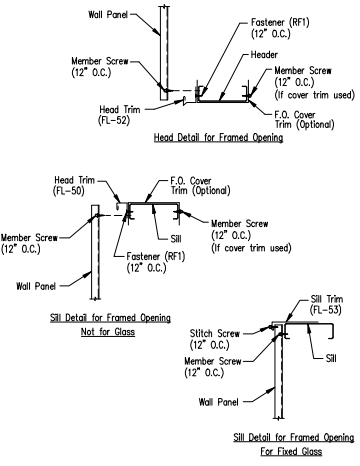
Downspout Kickout and Splice Detail  
3 1/2" x 5 3/8" Roll-Form

DRAWING NO. TD96



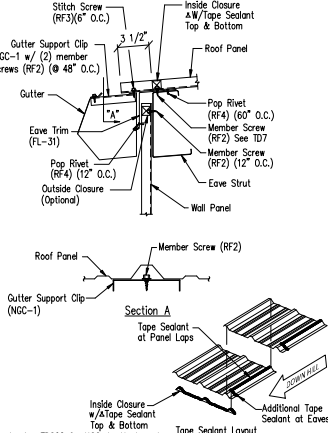
Downspout Elevation  
3 1/2" x 5 3/8" Roll-Form

DRAWING NO. TD90



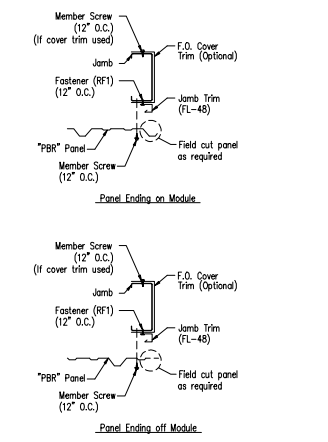
Framed Opening Head and Sill Details

DRAWING NO. TD52



Low Eave Detail - PBR  
Northern Gutter - Sheeted Wall

DRAWING NO. TD137

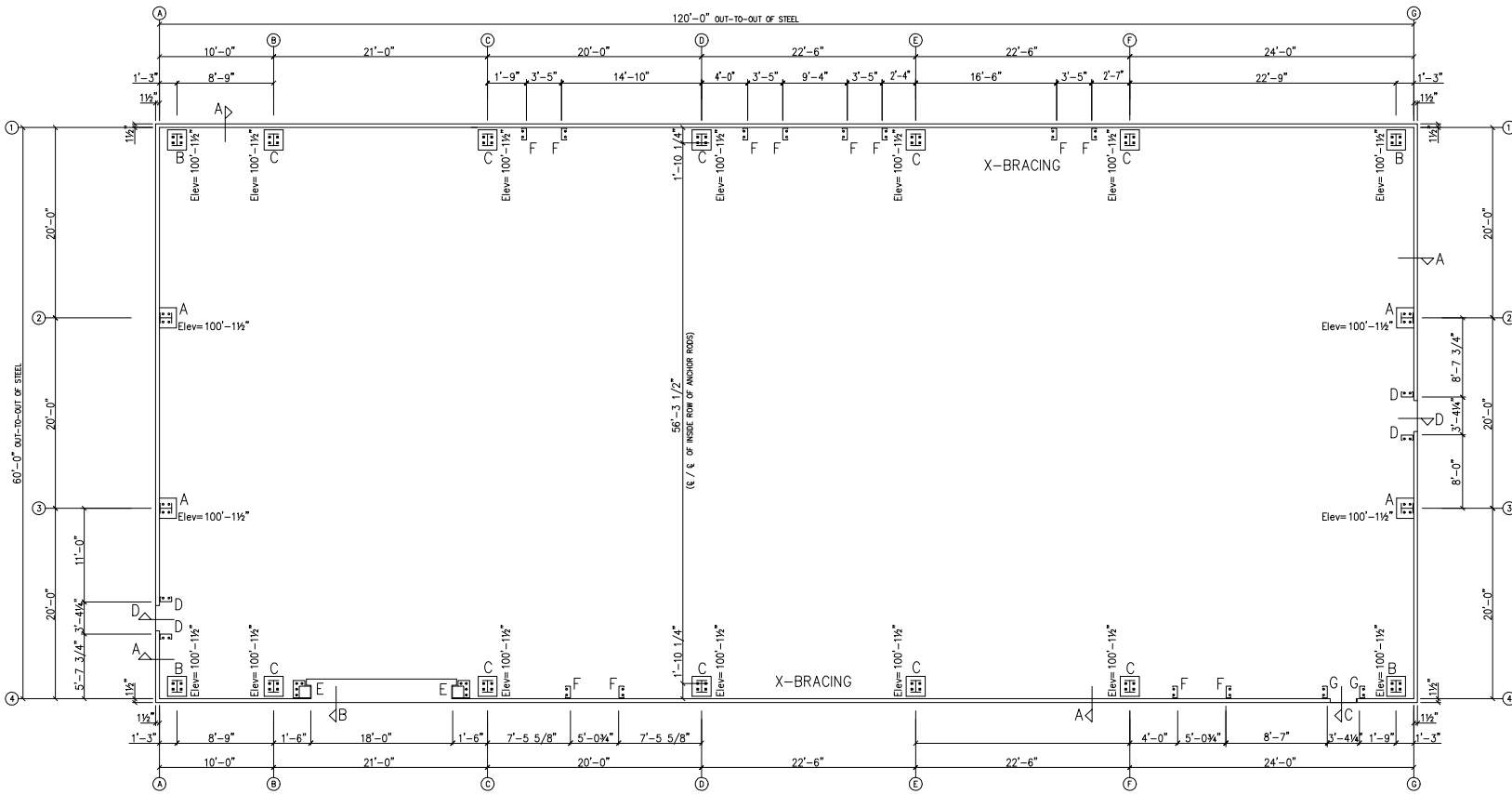


Jamb Detail For Framed Opening - PBR

DRAWING NO. TD51

NOTE: A minimum of 1/4" space should be allowed from the sheet end to any surface.

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### ANCHOR ROD PLAN

NOTE: All Base Plates @ 100'-0" (FINISH FLOOR)(UNLESS NOTED)

(Typ) For Detail A B C

SHIM PLATES  
AS REQUIRED

1 1/2" GROUT IS FURNISHED  
& INSTALLED BY OTHERS  
& NOT BY U.S.S.I.

(2) SETS SHIM PACKS REQ'D. PER COLUMN

USSI TO PROVIDE SHIM PACKS AT ALL  
MAIN & ENDWALL COLUMNS FOR 1 1/2"  
GROUT. (GROUT NOT BY USSI)  
THE FOLLOWING PLATES ARE TO BE  
PROVIDED FOR (1) SHIM PACK

- (1) 1/2" x 2" x 0'-6"
- (1) 3/8" x 2" x 0'-6"
- (3) 1/4" x 2" x 0'-6"
- (1) 10 Ga x 2" x 0'-6"

NOTE: SHEAR ANGLES AND/OR  
TIES ARE NOT FURNISHED BY  
U.S.S.I.

NOTE: ANCHOR ROD PROJECTIONS ARE  
FROM TOP OF CONCRETE. IF  
GROUT IS REQ'D. ADD GROUT  
THICKNESS TO ANCHOR ROD  
PROJECTION.

BY USSI

DIA.	QTY	REMARKS	T	PROJ
5/8"	36	WEDGE ANCHORS x 0'-4 1/2"	1"	1"
5/8"	16	ANCHOR ROD	3"	3"
3/4"		ANCHOR ROD	3"	3"
1"	84	ANCHOR ROD	3"	3"

#### GENERAL NOTES:

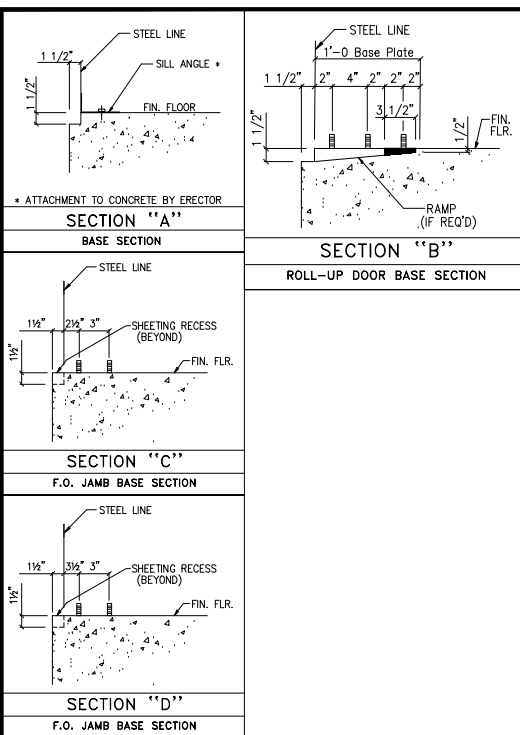
- THE SOLE PURPOSE OF THIS DRAWING IS TO LOCATE ANCHOR RODS IN REFERENCE TO THE BUILDING STEEL LINE. U.S.S.I. SHOWS ONLY THEIR SUGGESTED PANEL RECESS. ALL OUT TO OUT OF CONCRETE DIMENSIONS ARE TO BE DETERMINED BY THE CUSTOMER.
- BOTTOM OF ALL BASE PLATES ARE AT THE SAME ELEVATION (UNLESS NOTED)

ANCHOR RODS HAVE BEEN DESIGNED FOR SHEAR AND TENSION LOADS ONLY, PER APPENDIX D OF ACI 318-08.

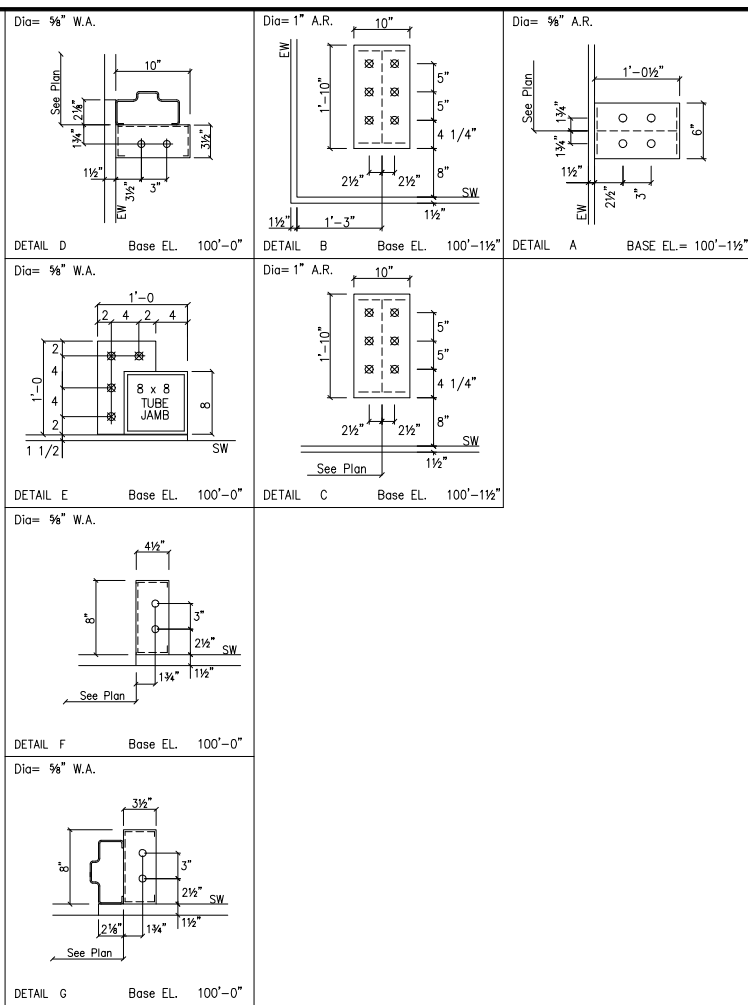
DESIGN OF SHEAR ANGLES, TENSION PLATES, HAIRPINS, AND ANY OTHER EMBEDDED MATERIAL IN THE CONCRETE SHALL BE DETERMINED BY THE FOUNDATION DESIGN ENGINEER AND PROVIDED BY OTHERS.

ANCHOR ROD PROJECTION IS FROM BOTTOM OF BASE PLATE, UNLESS GROUT IS REQUIRED.

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A.R. = ANCHOR ROD  
W.A. = WEDGE ANCHOR



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CONSTRUCTION**

CUSTOMER:	SUMMIT CARBON SOLUTIONS	ISSUE	DESCRIPTION	DATE	BY
CUSTOMER P.O.#	200-00061	0	CERTIFIED FOR CONST.	5/31/23	JM
PROJECT NAME:	PINE LAKE CORN PROCESSORS STATION				
BUILDING TYPE:	120'-0" COMPRESSOR BUILDING				
JOB LOCATION:	STEAMBOAT ROCK, IA 52672				



6/5/23

JOB # : 4486

188583

DRAWN BY:


CHKD BY:

DATE:

SCALE : N.T.S.

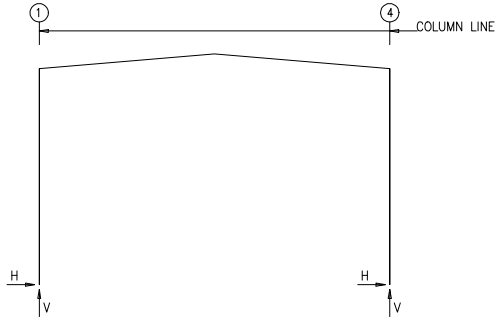
BASE DETAILS & SECTIONS

DWG # F2 of 3



**UNITED STEEL STRUCTURES**  
INCORPORATED  
the sound science company  
1350 PARKLATE PARKWAY, SUITE 400  
CHICAGO, ILLINOIS 60606  
OFFICE (815) 484-1300  
FAX (815) 484-1300  
WWW.UNITEDSTEELSTRUCTURES.COM

FRAME LINES: A B C D E F G



RIGID FRAME: MAXIMUM REACTIONS, ANCHOR RODS, & BASE PLATES

Frm Line	Col Line	Column_Reactions(k )				Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Qty	Dia	Base_Plate(in)		Grout (in)
		Load Id	Hmax H	V Vmax	Load Id									Width	Length	
A*	1	8	9.5	29.8	1	-6.9	-5.8	6	1.000	10.00	22.00	1.000	1.5	10.00	22.00	1.000
		6	9.1	67.9	3	2.9	-18.3									
		7	-10.7	65.1	4	-2.9	-18.3									
A*	4	2	6.9	-5.8	5	-10.7	47.0	6	1.000	10.00	22.00	1.000	1.5	10.00	22.00	1.000
		7	-10.7	65.1	4	-2.9	-18.3									
		8	9.5	29.8	1	-6.9	-5.8									

A\* Frame lines: A B C D E F G

NOTES FOR REACTIONS

Building reactions are based on the following building data:

Width (ft)	=	60.0
Length (ft)	=	120.0
Eave Height (ft)	=	37.0/ 37.0
Roof Slope (rise/12 )	=	1.0/ 1.0
Dead Load (psf )	=	2.0
Collateral Load (psf )	=	5.0
Live Load (psf )	=	30.0
Snow Load (psf )	=	35.0
Wind Speed (mph )	=	115.0
Wind Code	=	IBC 18
Exposure	=	C
Closed/Open	=	C
Importance Wind	=	N/A
Importance Seismic	=	1.00
Seismic Zone	=	B
Seismic Coeff (Fa*Se)	=	0.23

ID	Description
----	-------------

- 1 0.6Dead+0.6Wind\_Left2
- 2 0.6Dead+0.6Wind\_Right2
- 3 0.6Dead+0.6Wind\_LongL
- 4 0.6Dead+0.6Wind\_Long2L
- 5 Dead+Collateral+0.75Snow+0.75F1CRNA\_1
- 6 Dead+Collateral+0.75Snow+0.75F1CRNA\_2
- 7 Dead+Collateral+0.75Snow+0.75F1CRNA\_3
- 8 Dead+0.75Snow+0.3Wind\_Right1+0.75F1CRNA\_4
- 9 0.6Dead+0.6Wind\_Right2+0.6Wind\_Suction
- 10 0.6Dead+0.6Wind\_Pressure+0.6Wind\_Long2L
- 11 1.02Dead+1.02Collateral+0.52Seismic\_LongL+0.15E1UNB\_SL\_R
- 12 1.02Dead+1.02Collateral+0.52Seismic\_LongL+0.15E2UNB\_SL\_R

RIGID FRAME: BASIC COLUMN REACTIONS (k )

Frame Line	Column Line	---Dead---		---Collateral---		---Live---		---Snow---		---Wind_Left1---		---Wind_Right1---	
		Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert
A*	1	0.5	3.7	1.6	17.9	4.4	20.7	5.1	24.2	-9.5	-20.5	6.5	-7.1
A*	4	-0.5	3.7	-3.2	15.1	-4.4	20.7	-5.1	24.2	-6.5	-7.1	9.5	-20.5
Frame Line	Column Line	---Wind_Left2---		---Wind_Right2---		---Wind_Long1---		---Wind_Long2---		---Seismic_Left---		---Seismic_Right---	
		Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert
A*	1	-12.0	-13.5	4.0	-0.1	4.3	-34.3	3.7	-31.7	-1.4	-1.7	1.4	1.7
A*	4	-4.0	-0.1	12.0	-13.5	-3.7	-31.7	-4.3	-34.3	-1.4	1.7	1.4	-1.7
Frame Line	Column Line	---Seismic_Long---		---MIN_SNOW---		---F1CRNA_1---		---F1CRNA_2---		---F1CRNA_3---		---F1CRNA_4---	
		Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert	Horiz	Vert
A*	1	0.0	-6.2	2.9	13.8	-1.1	32.2	4.3	37.6	-1.1	8.1	4.3	13.5
A*	4	0.0	-6.0	-2.9	13.8	-4.3	13.5	1.1	8.1	-4.3	37.6	1.1	32.2
Frame Line	Column Line	F1UNB_SL_L-		F1UNB_SL_R-									
		Horiz	Vert	Horiz	Vert								
A*	1	4.2	24.3	4.2	13.3								
A*	4	-4.2	13.3	-4.2	24.3								

A\* Frame lines: A B C D E F G

ENDWALL COLUMN: BASIC COLUMN REACTIONS (k )

Frm Line	Col Line	Dead Vert	Collateral		Wind Press		Wind Suct		Seis Long
			Horz	Vert	Horz	Horz	Horz	Horz	
A	2	0.8	0.9	6.5	-9.3	10.3	0.1	0.1	0.1
A	3	0.8	0.9	6.5	-9.3	10.3	0.1	0.1	0.1
C	3	0.8	0.9	6.5	-9.3	10.3	0.1	0.1	0.1
G	2	0.8	0.9	6.5	-9.3	10.3	0.1	0.1	0.1

ENDWALL COLUMN: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES

Frm Line	Col Line	Column_Reactions(k )				Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Qty	Dia	Base_Plate(in)		Grout (in)
		Load Id	Hmax H	V Vmax	Load Id									Width	Length	
A	2	9	6.2	0.5	10	-5.6	0.5	4	0.625	6.000	12.50	0.375	1.5	6.000	12.50	0.375
		11	0.9	7.5	10	-5.6	0.5									
A	3	9	6.2	0.5	10	-5.6	0.5	4	0.625	6.000	12.50	0.375	1.5	6.000	12.50	0.375
		11	0.9	7.5	10	-5.6	0.5									
G	3	9	6.2	0.5	10	-5.6	0.5	4	0.625	6.000	12.50	0.375	1.5	6.000	12.50	0.375
		12	0.9	7.5	10	-5.6	0.5									
G	2	9	6.2	0.5	10	-5.6	0.5	4	0.625	6.000	12.50	0.375	1.5	6.000	12.50	0.375
		12	0.9	7.5	10	-5.6	0.5									

BUILDING BRACING REACTIONS

---Wall Loc	---Col Line	± Reactions(k )				Panel_Shear (lb/ft)		Note
		---Wind Horz	---Seismic Vert	---Wind Horz	---Seismic Vert	Wind	Seis	
L_EW	A							(h)
F_SW	4	D,E	12.3	19.2	3.8	6.0		(h)
R_EW	G							
B_SW	1	F,E	12.3	19.2	3.9	6.1		

(h) Rigid frame at endwall

CRANE BRACING REACTIONS

---Wall Loc	---Col Line	±Reactions(k )		Note
		---Crane--- Horz	---Crane--- Vert	
F_SW	4	D ,E	4.1	5.0
B_SW	1	E ,D	4.1	5.0



BY	DATE	5/31/23	JM
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DESCRIPTION	CERTIFIED FOR CONST.

ISSUE	0
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CUSTOMER:	SUMMIT CARBON SOLUTIONS
CUSTOMER PO#:	200-000161
PROJECT NAME:	PINE LAKE CORN PROCESSORS STATION
BUILDING TYPE:	120' - 0" COMPRESSOR BUILDING
LOCATION:	2000 W. KODIAK AVENUE FORT MYERS, FL 33907



JOB #:	4486
	188583
DRAWN BY:	
DATE:	
CHKD BY:	
DATE:	
SCALE:	N.T.S.
	REACTIONS
DWG #	F3 of 3

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CONSTRUCTION

Filed with the Iowa Utilities Board on September 21, 2023, HL P 2024-0001

GENERAL BUILDING SPECIFICATIONS

Building Dimensions: 40'-0" wide x 60'-0" long x 20'-0" eave height.  
Sidewall Bay Spacing: 20'-0", 20'-0", 20'-0" with standard endwall mainframe setbacks.  
Endwall Bay Spacing: 20'-0", 20'-0".  
Roof Slope: 1:12. Gable Symmetrical clearspan mainframe with straight columns and rafters. Sidewall girts are to be bypass condition and the endwall girts are flush.

Building shall be designed in accordance with the following criteria:

- Building Code: 2015 IBC (ASCE 7-10).  
Live Load: 30 PSF Non-Reducible.  
Dead Load: Self-Weight of the Structure.  
Snow Load: 30 PSF Ground Snow; I = 1.0; Ce = 1.0; Ct = 1.0.  
Wind Load: 115 MPH Exposure "C"; Risk Category = II (Normal).  
Seismic: Ss = 0.0580G; S1 0.0420g; I = 1.0; Site Class "D"; Design Category "B".  
Deflection: Per Manufacturer's Standards.  
Collateral Load: 5 PSF for misc. items (lighting, duct work, etc.) by others.  
Other/ Special Loads:

- Provide design and support for Cable Trays by others along the Front Sidewall (Line A) and Right Endwall (Line 4). The weight of Cable Trays by others will be 60 PLF. USSI to provide all support framing (brackets and sub framing) as required.
- Provide design and support beam/ brackets as required in bay 2 of the Left Endwall (Line 1) for 300 PLF load (10" diameter pipe) by others above the roll-up door.
- Provide design and support beam/ brackets as required for (2) 6" diameter pipes by others, 900 lbs, each vertical point loads in the Back Sidewall (Line C) between frame lines 2-3.
- Provide design and support beam/ brackets as required for (1) pipe by others, 1,500 lbs, vertical point loads in bay 1 of the Right Endwall (Line 4).
- Provide design and support beams/ brackets for Cable Tray by others (60 PLF) in bay 1 of the Right Endwall (Line 4).

Building primary rigid frames to be designed and fabricated from hot rolled structural steel shapes and/or or built-up tapered plate members. Building secondary structural steel members to be designed as cold-formed steel shapes and fabricated from steel sheet. Design and fabrication shall be in accordance with the "ASD" Edition of A.I.S.C., A.I.S.I., and A.W.S. D1.1 – 2010 Structural Welding Code as appropriate per the International Building Code adopted by each state.

A bent of full and typical size shall be provided at each end of the building with typical connections for girts, purlins, etc., so that future extension may be facilitated. Endwall materials shall be designed and connected to be easily removable and reusable. Building is furnished with steel rod, steel cable and/or steel angle roof and wall bracing.

After fabrication, all primary structural steel members shall be hand cleaned per SSPC SP-2 and given one shop coat of standard grey primer. Secondary and cold formed steel members shall be fabricated from pre-coated coil stock with manufacturer's standard red or grey primer.

Building roof and wall panels are to be 26-gauge galvalume, pre-painted through fastener (PBR) profile panels with major ribs at 12" on center. Finish to be factory coated. Roof panels are to be provided in manufacturer's standard Polar White color and wall panels in Ash Gray color both with a Siliconized Polyester finish

Building shall be furnished with exterior trim including roofline trim, rake, and corner trim to be 26-gauge galvalume, pre-painted material. Trim shall provide a finished appearance and be provided in manufacturer's standard Polar White color with a Siliconized Polyester finish.

Sealant tape shall be provided to produce a weather tight roof.

Base Angle shall be provided for the full perimeter of the building with a standard concrete sheeting notch with NO base trim.

Panel and trim fasteners shall be steel screws with washer and sealing washer (Long Life). Fasteners shall be matched to material in which they are installed.

Building roof and walls are furnished with 3" thick x 0.60# PCF density (R-10) VRR Plus fiberglass insulation.

BUILDING ACCESSORIES

- A** 2 Walkdoors
- |                     |  |
|---------------------|--|
| Size                | 3070V  |
| Type                | Insulated with an STC-32 rating                        |
| Frame               | Pre-Assembled, Welded                                  |
| Access Hardware     | Rim panic with lever, keyed alike, Type A3 BEST Cores  |
| Standard Hardware   | Closer, Threshold, Sweep, SS hinges, Weather-stripping |
| Additional Hardware | Kickplate  |
| Glazing             | Insulated, 10" x 10" standard V Lite                   |
| Finish              | Manufacturer's standard gray prime painted finish      |

- B** 1 Overhead Doors
- |                                  |                                      |
|----------------------------------|--------------------------------------|
| Size                             | 16'-0" x 16'-0"                      |
| Type                             | Rolling Steel                        |
| Operation                        | Manual                               |
| Electrical Classification        | Non-Classified                       |
| Insulation                       | Insulated, STC-21                    |
| Weatherstripping                 | Fully Weather-stripped               |
| Mounting                         | Inside face mounted                  |
| Finish Curtain                   | Prime painted                        |
| Finish Hood, Guides, Bottom Bars | Mfg.'s standard prime painted finish |
| Other                            | Slide Bolt Locking Mechanism         |

- C** LOT Snow bar type snow retention system with through fastener connections.

VENTILATION:

System designed to provide a minimum of six (6) air changes per hour utilizing (1) powered wall exhaust fan and (2) non-powered wall supply louvers. All units are to be designed for a non-classified area.

- D** 1 Wall Exhaust, Powered, Non-Attenuated fan provided complete as follows:
- Panel Fan Exhaust, 18" diameter propeller, direct drive, "A" motor base, discharge venturi panel, structural steel support frame and motor base platform, painted
  - Motor: 1 HP, 1,800 RPM, 208-230V/ Single Phase/ 60Hz, Class 1 Division 2, TEFC.
  - PPG propeller, tested in accordance with ANSI/AMCA 210-99.
  - Supply Fan Box, 24-3/8" square, 28" deep, 2" front frame flange, no mid-frame flange, 2" turn in at rear, painted to match wall panel color (Ash Gray).
  - Lined Radius Hood, 24.38" square, 5" extension, 3" throat, 2" flange, bird screen, painted to match the wall panel color (Ash Gray).
  - Factory supplied counterbalanced back draft damper.
  - Essentials Kit, consisting of required hardware for systems assembly and sealant rolls for weather tight installation.
  - Major components to be minimum 18-gauge galvanized steel construction. Support flanges to be 11-gauge steel.
  - Paint is a modified acrylic enamel for a lasting quality exterior finish.
  - Fan performance: 2,104 CFM at 0.513" SP
  - Estimated Weight: 300 lbs.
  - Framed opening required: 24-3/4" square.

- E** 2 Wall Supply Louvers, Non-Powered, Non-Attenuated provided complete as follows:
- Radius Hood, 24-3/8" square, 5" extension, 3" throat, 2" flange, bird screen, painted to match wall panel color (Ash Gray).
  - POTTORFF, Model: EOD-637.
  - Dimensions: 20" X 20", nominal.
  - Material: 6063-T5 extruded aluminum.
  - Material thickness (in) 0.081.
  - Frame and blade attachment: Mechanically fastened.
  - Frame: 6" deep channel.
  - Blade: 37.5" drainable.
  - Aluminum bird screen, pattern 1/2" x 0.063".
  - Manual, Locking quadrant.
  - Installation clips.
  - Finish: Mill.
  - Weight: 80 lbs, per each unit.

FRAMED OPENINGS:

Framed openings and applicable trims (Head, Jamb, Sill, and Two-Piece flat flashing) are included for Accessories that are provided by USSI as noted in the "Building Accessories" section of this quote and the following:

- F1** 1 1'-6" W x 1'-6" H framed opening for Suction penetration by others with head, jamb, sill trim and two-piece flat flashings as required.
- F2** 1 1'-6" W x 1'-6" H framed opening for Discharge penetration by others with head, jamb, sill trim and two-piece flat flashings as required.
- F3** 1 2'-0" W x 1'-6" H framed opening for Cable Tray by others with head, jamb, sill trim and two-piece flat flashings as required.
- F4** 1 1'-10" W x 1'-10" H framed opening for 10" Diameter Pipes by others with head, jamb, sill trim and two-piece flat flashings as required.

MATERIAL CHECK-IN:

Any damage observed due to shipping must be documented on the Bill of Lading and a copy of the BOL provided to USSI. Any damage must be documented with photos and sent to the USSI project manager and/or purchasing agent upon discovery and USSI will determine if materials should be shipped back for repair or replacement.

All material must be checked in using the complete Bill of Materials and Packing Lists from each trailer. Shortages, though not expected, should be noted and notice shall be provided to USSI immediately.

MATERIAL STORAGE:

The weather protection provided with the materials is intended for shipping protection and short term storage.

Upon unloading, all material and accessories must be stored above ground level.

Electrical components shall be loosely tarped to minimize precipitation and condensation accumulation.

Temporary weather protection for accessories, sheeting, trim, insulation, consumables such as fasteners, caulk, and tape seal, shall be provided and maintained by the onsite company responsible for the materials.

Discretion shall be used onsite regarding protection of other materials. The building steel will weather and develop some rust when stored onsite, but it typically, is not feasible to add covering and should not be a cost for the contractor or erector to provide coverings.

MISFABRICATIONS / MISFITS:

USSI MUST be provided the immediate opportunity to assist in any troubleshooting and any repair or replacement decisions. The erector will be requested to provide piece marks of the material affected as well as photo documentation in order to help develop a solution. Contact the USSI PM and/or Manager of Production.

Per AISC – The correction of minor misfits by moderate amounts of reaming, grinding, welding or cutting, and the drawing of elements into line with drift pins, shall be considered to be normal erection operations. Errors that cannot be corrected using the foregoing means, or that require major changes in member or connection configuration, shall be promptly reported to USSI by the erector, to enable the responsible entity to either correct the error or approve the most efficient and economical method of correction to be used by others.

COLOR SCHEDULE	
ROOF PANEL	POLAR WHITE
WALL PANEL	ASH GRAY
CORNER TRIM	POLAR WHITE
GUTTER & RAKE TRIM	POLAR WHITE
DOWNSPOUTS	POLAR WHITE
ALL EXTERIOR FRAMED OPENING TRIM & EXTERIOR FLAT STOCK TRIM	POLAR WHITE

ACCESSORIES COLOR SCHEDULE	
WALK DOOR	PRIME PAINTED GREY
ROLL UP DOOR	PRIME PAINTED GREY
LOUVER	MILL FINISH
LOUVER HOOD	ASH GRAY
FAN	ASH GRAY
FAN HOOD	ASH GRAY

I hereby certify that this plan, specification, or report was prepared by me or under my direct personal supervision, and that I am a duly Registered Professional Engineer under the laws of the State of Iowa.

*Judson D. Smith*  
Judson D. Smith

Date: 6/5/23 Reg. No.: 9501

Judson  
D.  
Smith

This item has been digitally signed and sealed by Judson D. Smith, P.E. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.  
2023/06/08 07:30:03-0500  
11-21

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CONSTRUCTION

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PITTSBURGH, PA 15204  
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BY	DATE	DESCRIPTION	ISSUE
JM	5/31/23	CERTIFIED FOR CONST.	0

SUMMIT CARBON SOLUTIONS	CUSTOMER:	CUSTOMER PO#	PROJECT NAME	BUILDING TYPE:
	200-000161		PINE LAKE CORN PROCESSORS STATION	PUMP BUILDING
				INDUSTRIAL Bldg



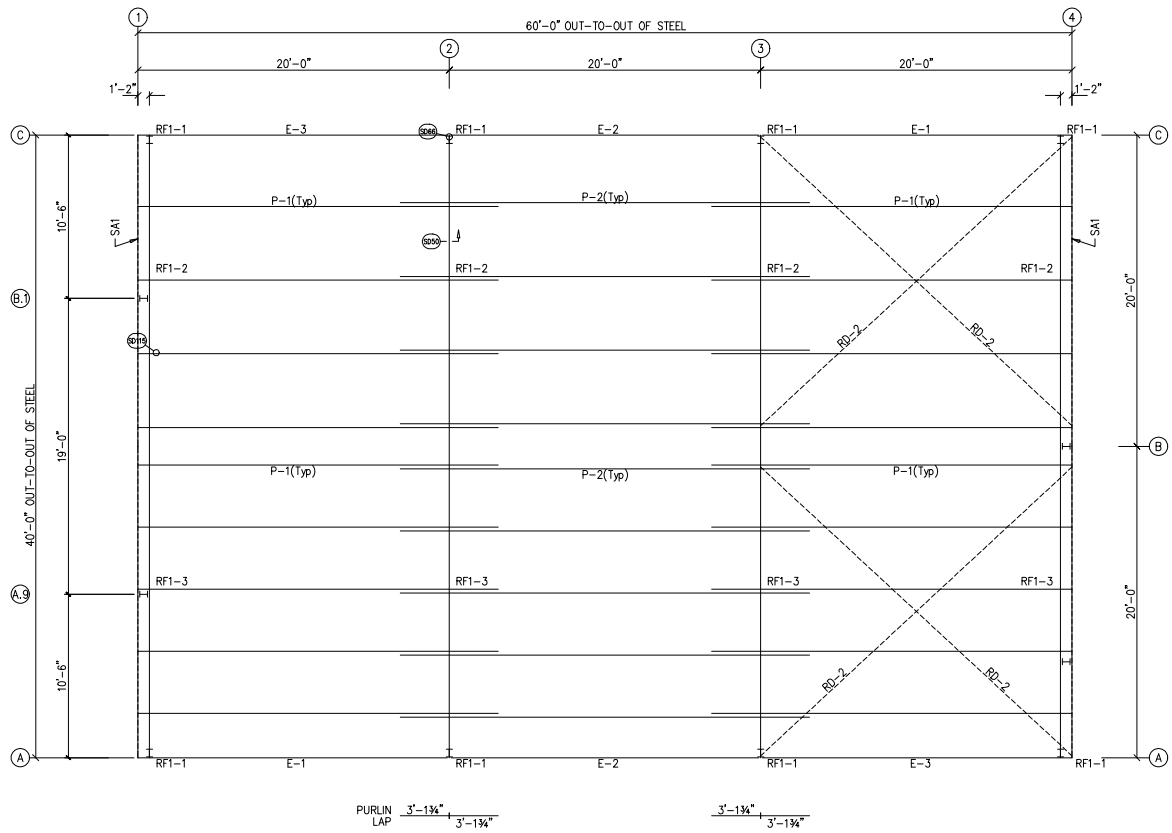
JOB #:	4487
DRAWN BY:	188584
DATE:	
CHKD BY:	
DATE:	
SCALE:	N.T.S.
COVER SHEET	
DWG #	C1 of 2

Filed with the Iowa Utilities Board on September 21, 2023, HL-P-2024-0001











ROOF FRAMING PLAN  
NO LINER PANEL

MEMBER TABLE	
ROOF PLAN	
MARK	PART
P-1	8X35Z14
P-2	8X35Z14
E-1	8E14
E-2	8E14
E-3	8E14
RD-2	RD0500



UNITED STEEL STRUCTURES  
the sound science company  
1330 ENCLAVE PARKWAY, SUITE 400  
FARMINGTON, CT 06030  
TEL: 860.646.1330  
FAX: 860.646.1334  
WWW.UNITEDSTEELSTRUCTURES.COM

BY	DATE	DESCRIPTION	ISSUE	CUSTOMER:	SUMMIT CARBON SOLUTIONS	200-000161	PINE LAKE CORN PROCESSORS STATION	PUMP BUILDING
JM	5/31/23	CERTIFIED FOR CONST.	0	PO#				
				PROJECT NAME				
				BUILDING TYPE				



6/5/23

JOB #	188584
DRAWN BY:	
DATE:	
CHKD BY:	
DATE:	
SCALE:	N.T.S.
ROOF FRAMING PLAN	
DWG #	E1 of 18

CERTIFIED FOR  
CONSTRUCTION

Filed with the Iowa Utilities Board on September 21, 2023, HL P 2024 0001



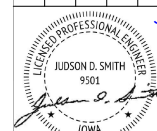
**UNITED STEEL STRUCTURES  
INCORPORATED**

the sound science company

1330 ENGLAVE PARKWAY, SUITE 400  
HOUSTON, TEXAS 77077  
OFFICE (281) 496-1300  
FAX (281) 496-1314

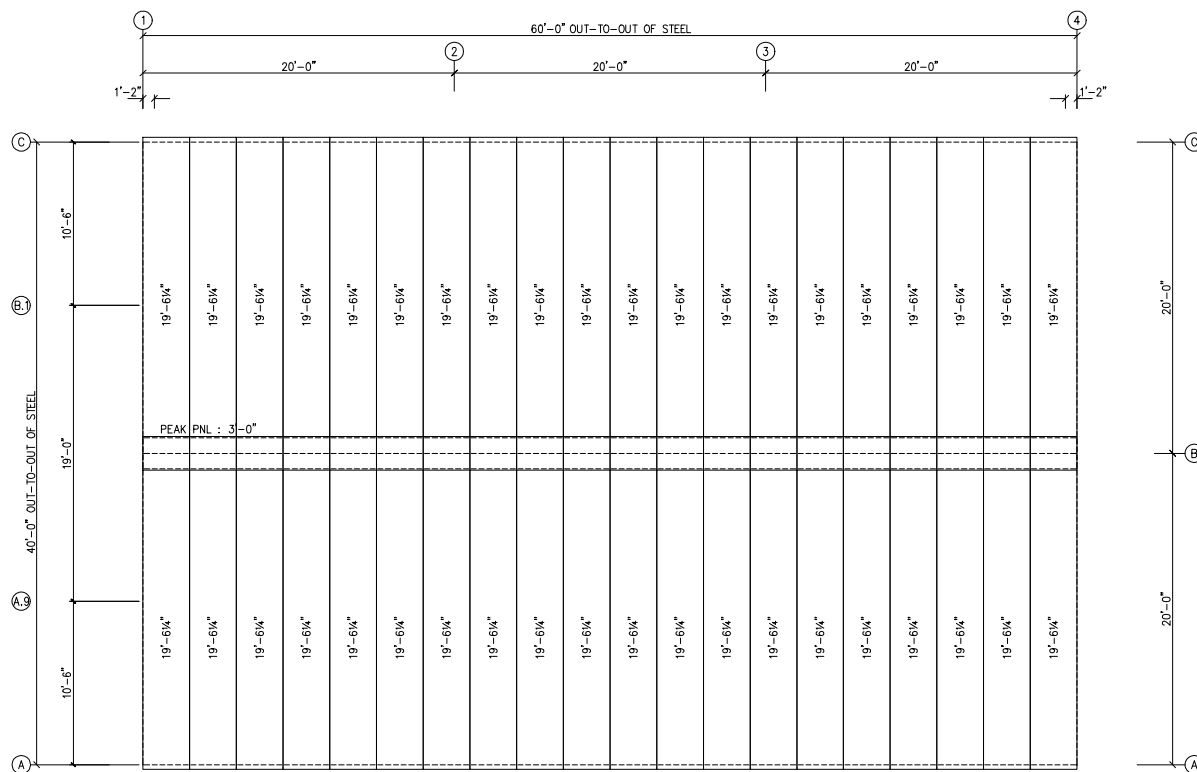
Filed with the Iowa Utilities Board on September 21, 2023, HL P-2021-0001

CUSTOMER:	SUMMIT CARBON SOLUTIONS	ISSUE	DESCRIPTION	DATE BY
CUSTOMER PO#:	200-000161	0	CERTIFIED FOR CONST.	5/31/23 JM
PROJECT NAME:	PINE LAKE CORN PROCESSORS STATION			
BUILDING TYPE:	PUMP BUILDING			
ORDER LOCATION:	STEAMFRAAT RD# 1A, 50670			



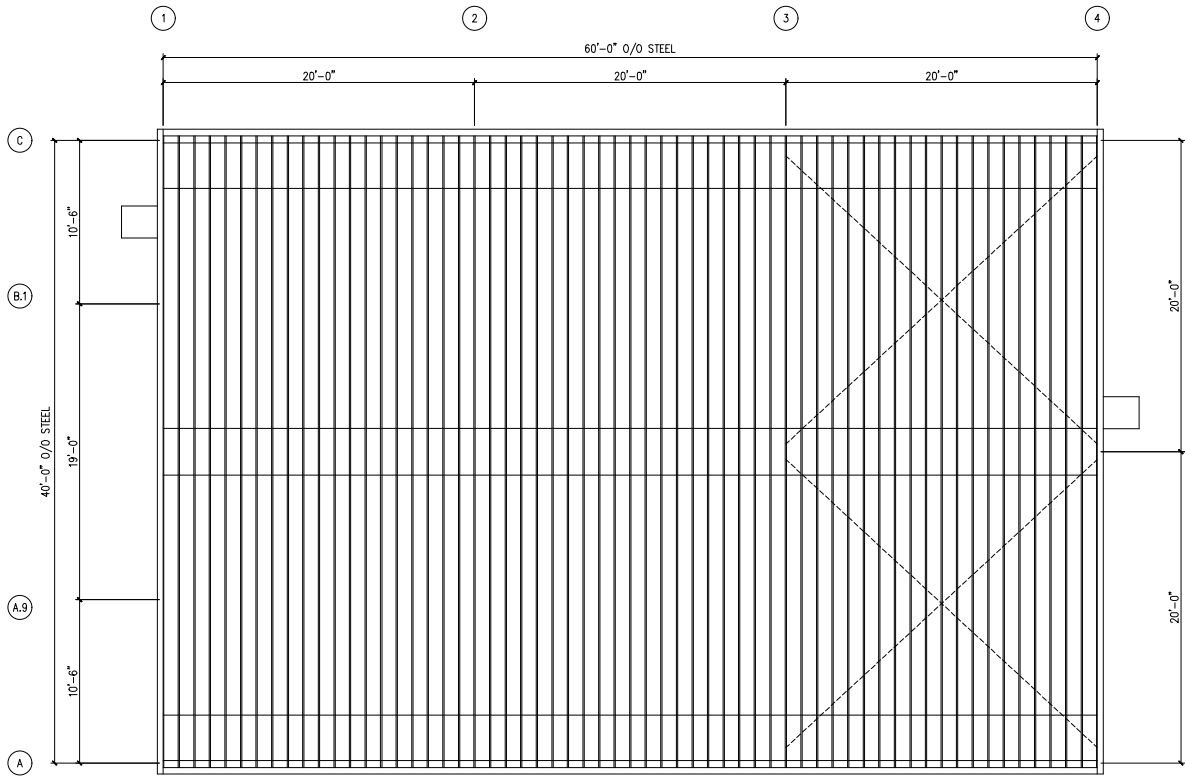
6/5/23

JOB #: 4487
188584
DRAWN BY:
DATE:
CHKD BY:
DATE:
SCALE: N.T.S.
ROOF SHEETING PLAN
DWG # E2 of





ROOF SHEETING PLAN  
PANELS: 26 GA. PBR – POLAR WHITE

**CERTIFIED FOR  
CONSTRUCTION**



ROOF PLAN

CERTIFIED FOR  
CONSTRUCTION

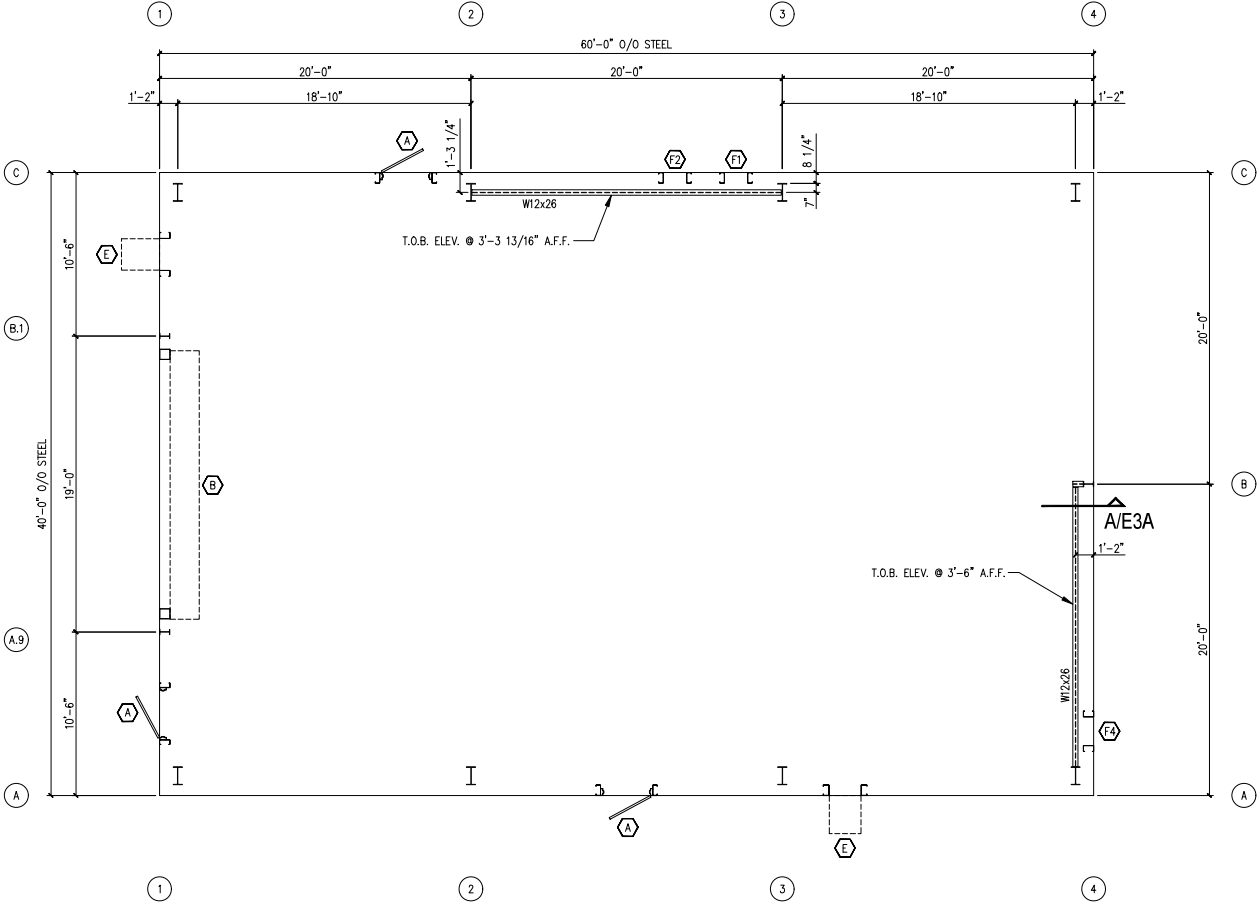
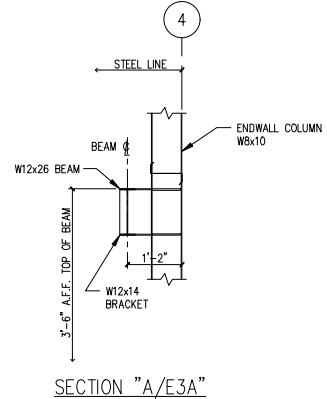
		UNITED STEEL STRUCTURES 1300 EAGLE PARKWAY, SUITE 400 PINE LAKE, IOWA 52241-1500 TEL: 563-281-8200 FAX: 563-281-8204	
ISSUE	DESCRIPTION	DATE	BY
0	CERTIFIED FOR CONST.	5/31/23	JM
CUSTOMER: SUMMIT CARBON SOLUTIONS			
CUSTOMER PO#: 200-000161			
PROJECT NAME: PINE LAKE CORN PROCESSORS STATION			
BUILDING TYPE: PUMP BUILDING			
LOCATION: 600 STEAMBOAT ROAD, PINE LAKE, IOWA 52241-1500			
			
6/5/23			
JOB #: 4487			
188584			
DRAWN BY:			
DATE:			
CHKD BY:			
DATE:			
SCALE: N.T.S.			
ARCHITECTURAL ROOF PLAN			
DWG # E3 of			

Filed with the Iowa Utilities Board on September 21, 2023, HL P 2024 0001

BY	DATE	DESCRIPTION	ISSUE	CUSTOMER	SUMMIT CARBON SOLUTIONS
JM	5/31/23	CERTIFIED FOR CONST.	0	CUSTOMER PO#	200-000161
				PROJECT NAME	PINE LAKE CORN PROCESSORS STATION
				BUILDING TYPE	PUMP BUILDING
				LOCATION	STEAMBOAT ROCK, IA 50622

6/5/23  
JUDSON D. SMITH  
9501  
IOWA  
LICENSED PROFESSIONAL ENGINEER

JOB #	4487
DRAWN BY:	188584
DATE:	
CHKD BY:	
DATE:	
SCALE:	N.T.S.
CABLE TRAY SUPPORT PLAN	
DWG #	E3A of



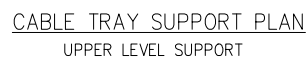
PIPE SUPPORT PLAN  
LOWER LEVEL SUPPORT

NOTE:  
SEE WALL ELEVATION  
DWGS. & "E10" FOR PIPE /  
CABLE TRAY SUPPORT  
BEAM LOCATIONS.

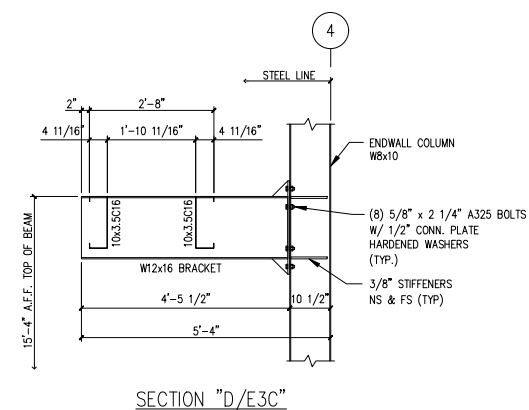
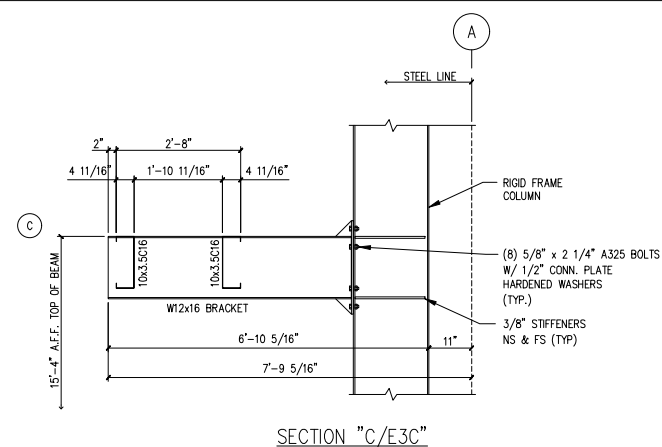
CERTIFIED FOR  
CONSTRUCTION

Filed with the Iowa Utilities Board on September 21, 2023, HL-P 2024-0001







**NOTE:**  
SEE WALL ELEVATION  
DWGS. & "E10" FOR PIPE /  
CABLE TRAY SUPPORT  
BEAM LOCATIONS.

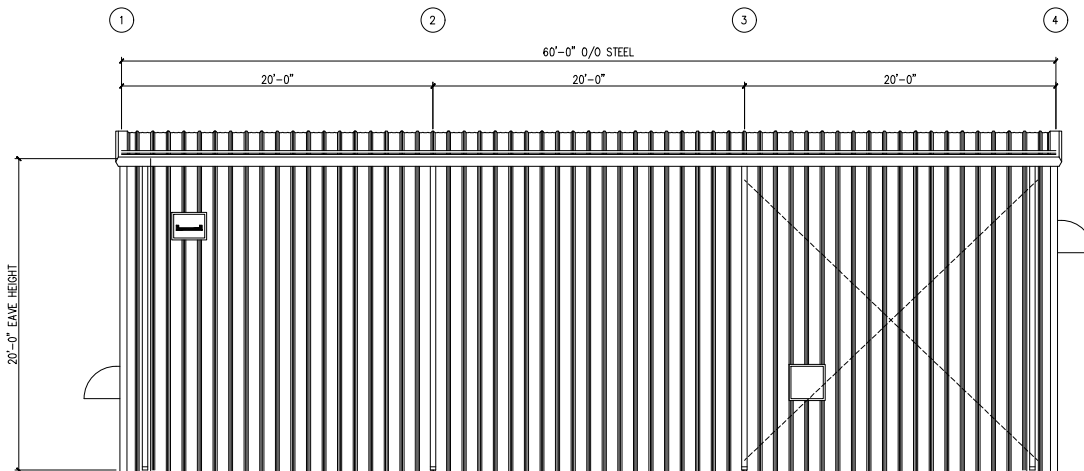


**CERTIFIED FOR  
CONSTRUCTION**

			
UNITED STEEL STRUCTURES INCORPORATED the sound science company 1300 WEST AVALON BOULEVARD HOUSTON, TEXAS 77056 (713) 261-2700 FAX (713) 488-1314			
TS			
CUSTOMER:	SUMMIT CARBON SOLUTIONS	ISSUE:	
CUSTOMER P.O.#:	200-000161	0	CERTIFIED FOR CONST.
PROJECT NAME:	PINE LAKE CORN PROCESSORS STATION	DATE:	5/31/23
BUILDING TYPE:	PUMP BUILDING	BY:	JM
JOB LOCATION:	STEAMBOAT ROCK, IA 50670		
JOB #:	4487		
	188584		
DRAWN BY:			
DATE:			
CHKD BY:			
DATE:			
SCALE:	N.T.S.		
CABLE TRAY SUPPORT PLAN			
DWG # E3C of			



Filed with the Iowa Utilities Board on September 21, 2023, HL-P-2021-006





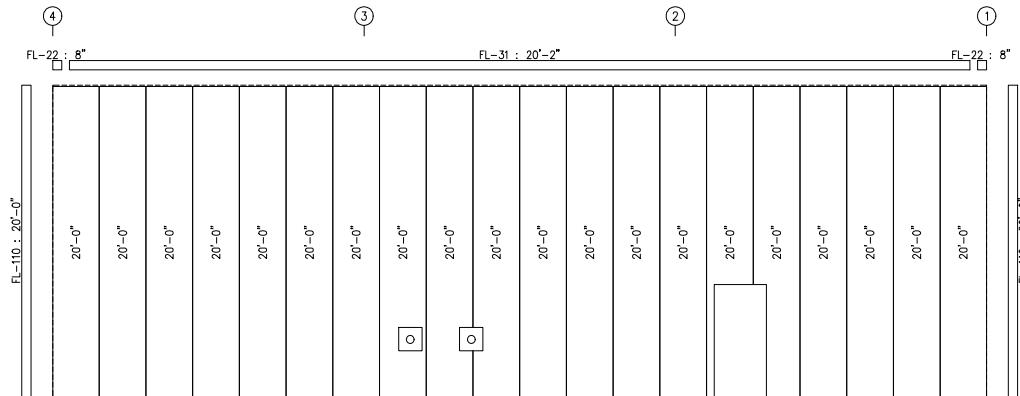
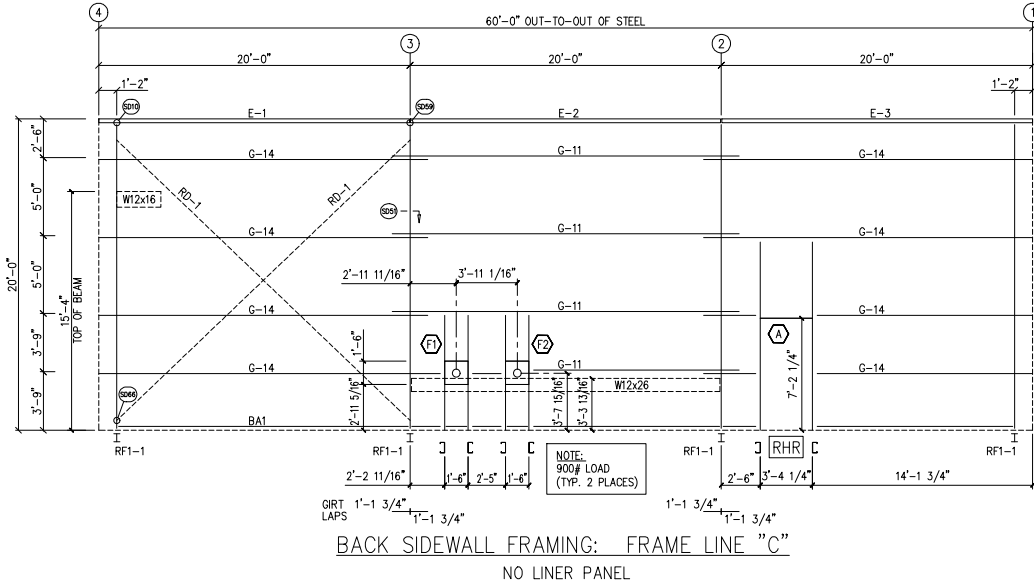
FRONT SIDEWALL: FRAME LINE "A"

CERTIFIED FOR  
CONSTRUCTION

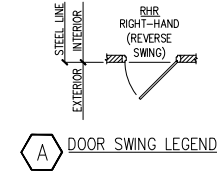
		<b>UNITED STEEL STRUCTURES</b> STEEL BUILDING SYSTEMS the sound science company 1300 ENCLAVE PARKWAY, SUITE 400 POTTER, IOWA 52077 715.281.8300 WWW.UNITEDSTEELSTRUCTURES.COM	
ISSUE	DESCRIPTION	DATE	BY
0	CERTIFIED FOR CONST.	5/31/23	JM
CUSTOMER:	SUMMIT CARBON SOLUTIONS		
CUSTOMER PO#:	200-000161		
PROJECT NAME:	PINE LAKE CORN PROCESSORS STATION		
BUILDING TYPE:	PUMP BUILDING		
LOCATION: BOY STEAMBOAT BOAT YARD			
			
6/5/23			
JOB #: 4487			
188584			
DRAWN BY:			
DATE:			
CHKD BY:			
DATE:			
SCALE: N.T.S.			
FRONT SIDEWALL ELEVATION			
DWG # E5 of			

Filed with the Iowa Utilities Board on September 21, 2023, HL P 2024 0001





GENERAL NOTES:  
TRIM IS FIGURED WITH 2" TRIM LAP UNLESS NOTED ON A DETAIL.  
FIELD CUT PANELS AT FRAMED OPENINGS, WALKDOORS, AND WINDOWS.  
FORMED BASE TRIM (IF USED) TO BE FIELD MITERED AT CORNERS.  
FIELD SLOT GIRTS AS REQUIRED FOR CABLE BRACE CLEARANCE.

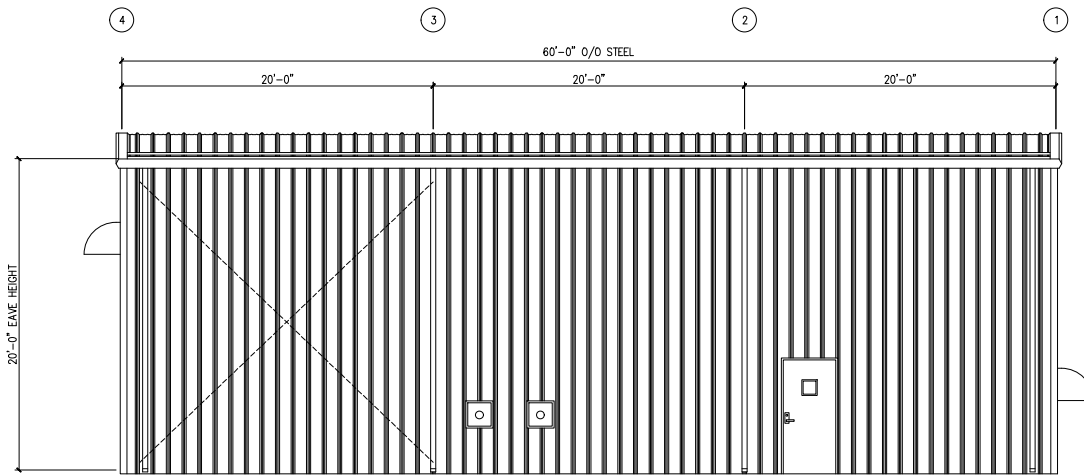


MEMBER TABLE	
FRAME LINE C	
MARK	PART
DJ-2	8X35C14
DH-2	8X25C16
F-1	BE14
F-2	BE14
F-3	BE14
G-11	8X25Z16
G-14	8X25Z16
RD-1	RD0500

CONNECTION PLATES	
FRAME LINE C	
MARK	PART
1	CL-104
2	CL-103
3	CL-100



<p>UNITED STEEL STRUCTURES the sound science company 1300 ENCLAVE PARKWAY, SUITE 400 DUBLIN, OHIO 43017-1500 760.881.8300 WWW.UNITEDSTEELSTRUCTURES.COM</p>		<p>FILED with the Iowa Utilities Board on September 21, 2023, HL P 2024 0001</p>	
BY	DATE	DESCRIPTION	ISSUE
JM	5/31/23	CERTIFIED FOR CONST.	0
SUMMIT CARBON SOLUTIONS		CUSTOMER:	200-000161
PINE LAKE CORN PROCESSORS STATION		CUSTOMER PO#:	
PUMP BUILDING		PROJECT NAME:	
LOCATION: 600 N. 1000 E. ST. WYOMING, WY 84015		BUILDING TYPE:	
<p>6/5/23</p>		JOB #:	4487
		DRAWN BY:	188584
		DATE:	
		CHKD BY:	
		SCALE:	N.T.S.
		SIDEWALL ELEVATIONS	
		DWG #	E6 of

CERTIFIED FOR  
CONSTRUCTION

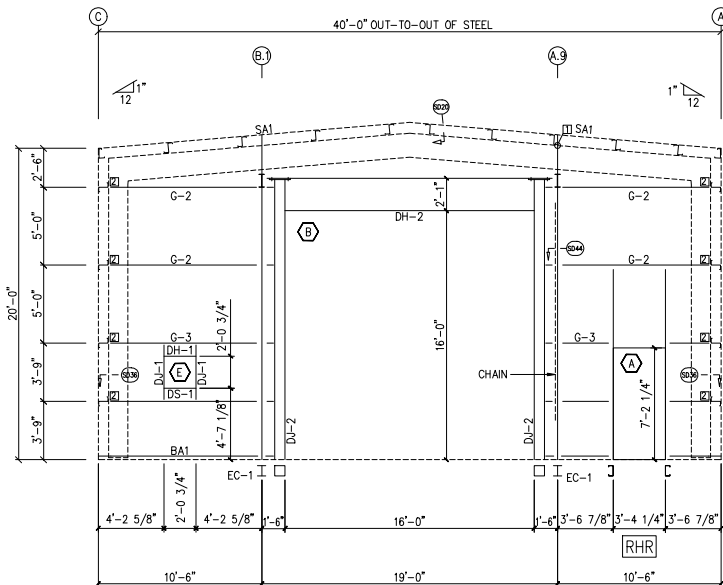


BACK SIDEWALL: FRAME LINE "C"

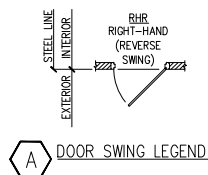
CERTIFIED FOR  
CONSTRUCTION

		<b>UNITED STEEL STRUCTURES</b> a sound science company 1330 ENCLAVE PARKWAY, SUITE 400 POTTER, IOWA 50454 762.388.2222	
ISSUE	DESCRIPTION	DATE	BY
0	CERTIFIED FOR CONST.	5/31/23	JM
CUSTOMER:	SUMMIT CARBON SOLUTIONS		
CUSTOMER PO#:	200-000161		
PROJECT NAME:	PINE LAKE CORN PROCESSORS STATION		
BUILDING TYPE:	PUMP BUILDING		
LOCATION: BOB STEARNS BLVD POTTER, IOWA 50454			
		6/5/23	
JOB #:		4487	
DRAWN BY:		188584	
DATE:			
CHKD BY:			
DATE:			
SCALE:		N.T.S.	
BACK SIDEWALL ELEVATION			
DWG #		E7 of	

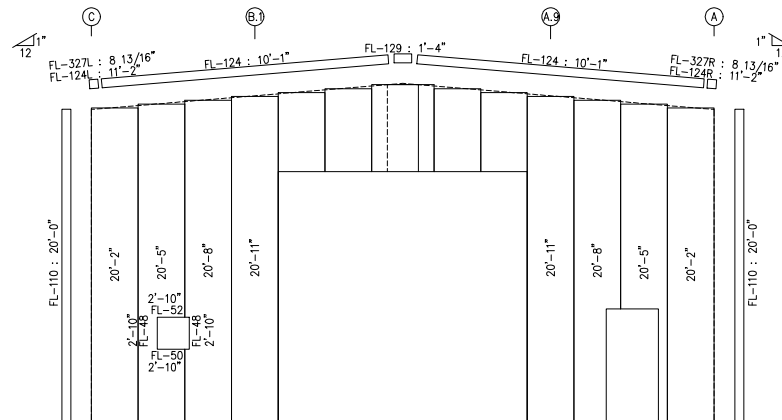
Filed with the Iowa Utilities Board on September 21, 2023, HL P 2024-0001



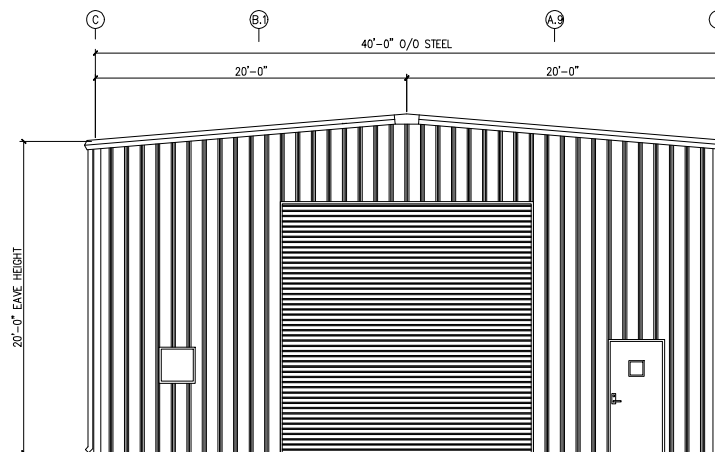
LEFT ENDEWALL FRAMING: FRAME LINE "1"  
NO LINER PANEL



GENERAL NOTES:  
TRIM IS FIGURED WITH 2" TRIM LAP UNLESS NOTED ON A DETAIL.  
FIELD CUT PANELS AT FRAMED OPENINGS, WALKDOORS, AND WINDOWS.  
FORMED BASE TRIM (IF USED) TO BE FIELD MITERED AT CORNERS.  
FIELD SLOT GIRTS AS REQUIRED FOR CABLE BRACE CLEARANCE.



LEFT ENDEWALL SHEETING & TRIM: FRAME LINE "1"  
PANELS: 26 GA. PBR - ASH GRAY



LEFT ENDEWALL: FRAME LINE "1"

BOLTY TABLE FRAME LINE 1 & 4				
LOCATION	QUAN	TYPE	DIA	LENGTH
Columns/Raf	8	A325	5/8"	2'
W/ HARDENED WASHERS				

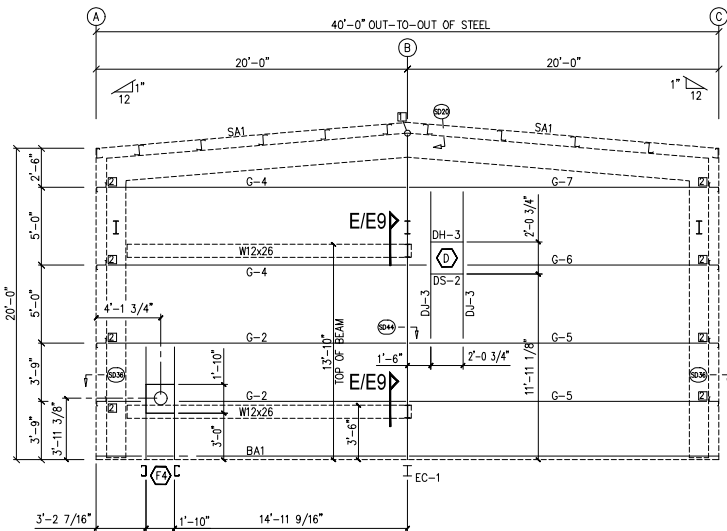
MEMBER TABLE FRAME LINE 1 & 4	
MARK	PART
EC-1	WBX10
DJ-1	8X35C16
DH-1	8X25C16
DS-1	8X25C16
G-1	8X25Z14
G-2	8X25Z14
G-3	8X25Z14

CONNECTION PLATES FRAME LINE 1 & 4	
ID	MARK/PART
1	CL-36
2	CL-64
3	CL-103
4	CL-100
5	CL-104

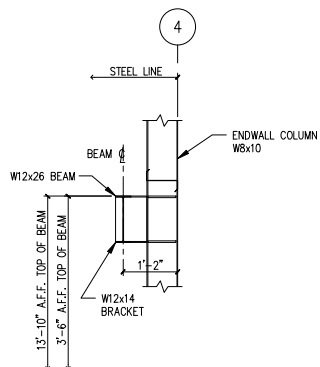
<p>UNITED STEEL STRUCTURES the sound science company 1300 ENCLAVE PARKWAY, SUITE 400 DALLAS, TEXAS 75246-1300 TEL: (214) 343-2300 FAX: (214) 343-2301</p>	
CUSTOMER:	SUMMIT CARBON SOLUTIONS
CUSTOMER PO#:	200-000161
PROJECT NAME:	PINE LAKE CORN PROCESSORS STATION
BUILDING TYPE:	PUMP BUILDING
LOCATION:	10001001.B00
<p>6/5/23</p>	
JOB #:	4487
DRAWN BY:	188584
DATE:	
CHKD BY:	
DATE:	
SCALE:	N.T.S.
ENDWALL ELEVATIONS	
DWG # EB of	

CERTIFIED FOR  
CONSTRUCTION

Filed with the Iowa Utilities Board on September 21, 2023, HL-P 2024-0001

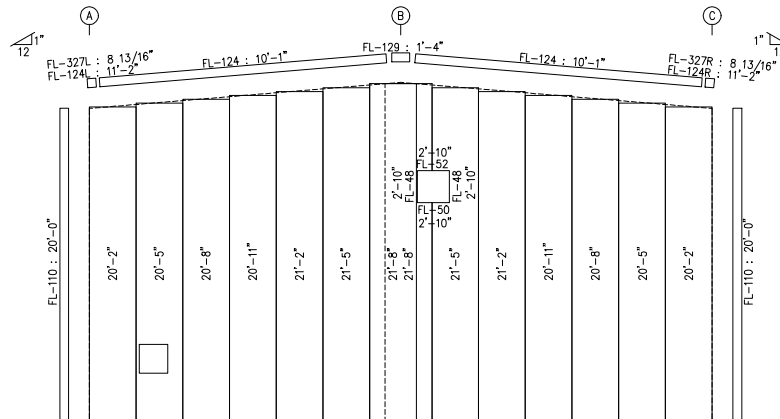


RIGHT ENDEWALL FRAMING: FRAME LINE "4"  
NO LINER PANEL

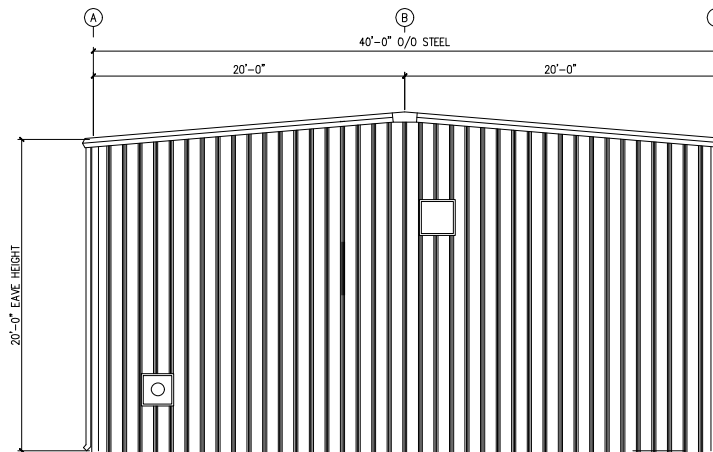


SECTION "E/E9"

GENERAL NOTES:  
TRIM IS FIGURED WITH 2" TRIM LAP UNLESS NOTED ON A DETAIL.  
FIELD CUT PANELS AT FRAMED OPENINGS, WALKDOORS, AND WINDOWS.  
FORMED BASE TRIM (IF USED) TO BE FIELD MITERED AT CORNERS.  
FIELD SLOT GIRTS AS REQUIRED FOR CABLE BRACE CLEARANCE.



RIGHT ENDEWALL SHEETING & TRIM: FRAME LINE "4"  
PANELS: 26 GA. PBR - ASH GRAY



RIGHT ENDEWALL: FRAME LINE "4"

BOLTY TABLE FRAME LINE 1 & 4				
LOCATION	QUAN	TYPE	DIA	LENGTH
Columns/Raf	8	A325	5/8"	2'
W/ HARDENED WASHERS				

MEMBER TABLE FRAME LINE 1 & 4	
MARK	PART
EC-1	WBX10
DJ-3	8X35C16
DJ-4	8X35C16
DH-3	8X25C16
DH-4	8X25C16
DS-2	8X25C16
G-2	8X25Z14
G-4	8X25Z14
G-5	8X25Z12
G-6	8X25Z12
G-7	8X25Z12

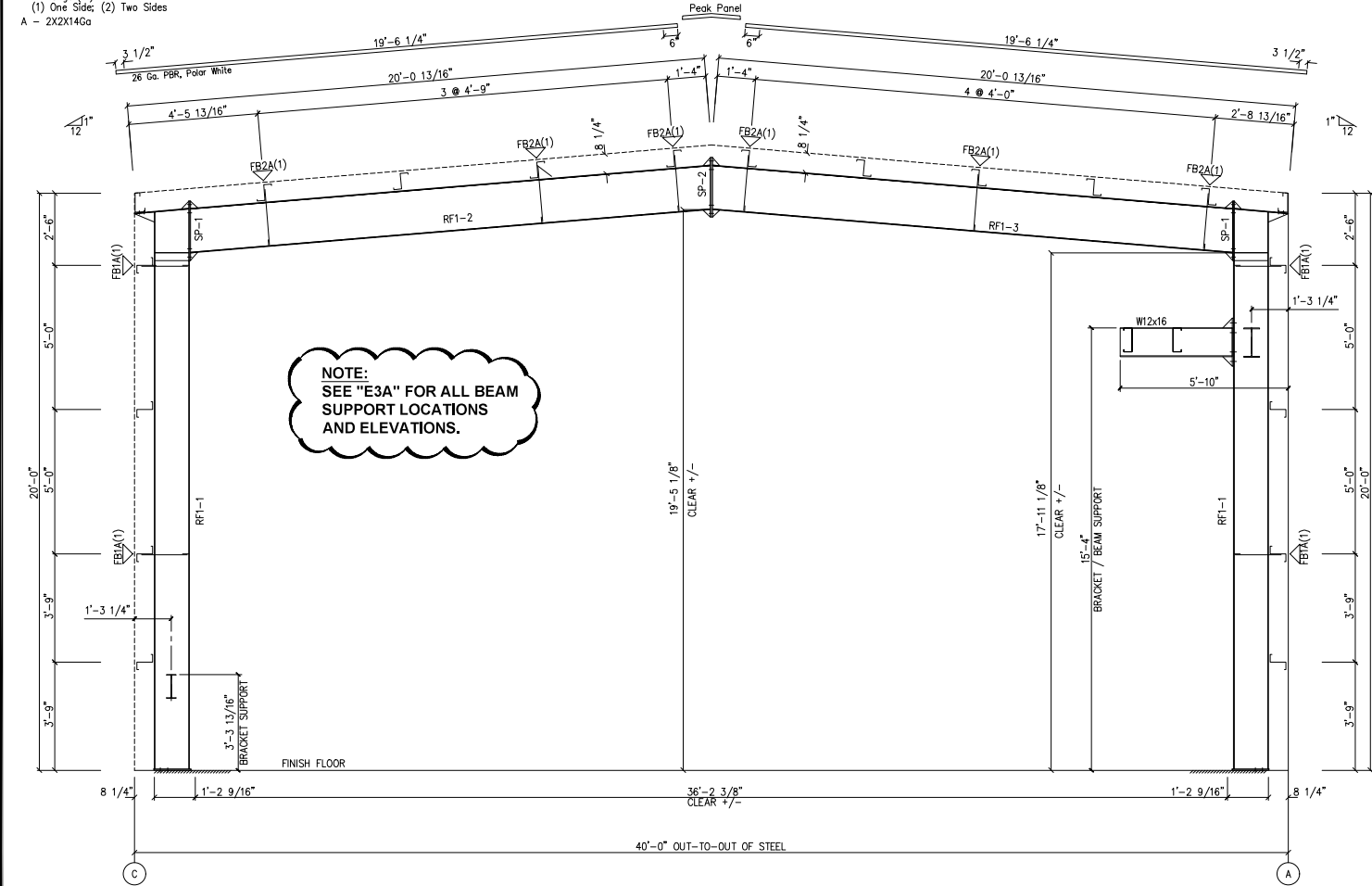
CONNECTION PLATES FRAME LINE 1 & 4	
ID	MARK/PART
1	CL-36
2	CL-64
3	CL-103
4	CL-100
5	CL-104

<p>UNITED STEEL STRUCTURES the sound science company 1300 ENCLAVE PARKWAY, SUITE 400 FARMINGTON, CT 06030 TEL: (860) 646-7100 FAX: (860) 646-7101 WWW.UNITEDSTEELSTRUCTURES.COM</p>		BY	DATE	DESCRIPTION	ISSUE
		5/31/23	JM	CERTIFIED FOR CONST.	0
CUSTOMER:	SUMMIT CARBON SOLUTIONS	CUSTOMER PO#:	200-000161	PROJECT NAME:	PINE LAKE CORN PROCESSORS STATION
BUILDING TYPE:	PUMP BUILDING	LOCATION:	1000 W. 1000 N. WY.	DATE:	6/5/23
<p>HUDSON D. SMITH 9501 IOWA 6/5/23</p>		JOB #:	4487		
DRAWN BY:		188584			
DATE:					
CHKD BY:					
DATE:					
SCALE:		N.T.S.			
ENDWALL ELEVATIONS					
DWG #		E9 of			

Filed with the Iowa Utilities Board on September 21, 2023, HL-P 2024-0001

SPICE PLATE & BOLT TABLE									
Mark	Qty	Top	Bot	Int	Type	Dia	Length	Width	Thick
SP-1	4	4	0		A325	5/8"	2"	6"	3/8"
SP-2	4	4	0		A325	5/8"	2 1/4"	6"	1/2"

W/ HARDENED WASHERS  
 FLANGE BRACES: FBxx (1 or 2)  
 x=length(in)  
 (1) One Side; (2) Two Sides  
 A - 2X2X14Ga



RIGID FRAME ELEVATION: FRAME LINES "1, 2, 3 & 4"

MEMBER TABLE					
Mark	Web Depth	Web Plate	Outside Flange	Inside Flange	
	Start/End	Thick	W x Thk x Length	W x Thk x Length	
RF1-1	14.0/14.0	0.135	209.9	6 x 1/4" x 230.2	6 x 5/16" x 209.9
RF1-2	14.0/14.0	0.188	21.4	6 x 1/4" x 22.6	6 x 1/4" x 217.0
RF1-3	18.0/18.0	0.164	218.5	6 x 1/4" x 217.0	6 x 1/4" x 217.0

### HIGH-STRENGTH BOLT TIGHTENING REQUIREMENTS

- ALL HIGH STRENGTH BOLTS (A325 AND A490) SHALL BE FULLY PRE-TENSIONED UNLESS NOTED OTHERWISE ON THE DRAWINGS OR BY WRITTEN PERMISSION OF THE ENGINEER OF RECORD.
- MEANS AND METHODS OF PRE-TENSIONING SHALL BE IN ACCORDANCE OF THE LATEST RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS.
- IT IS THE ERECTOR'S RESPONSIBILITY TO ENSURE BOLT TENSIONING IS DONE PROPER AND IN ACCORDANCE WITH THE STATED SPECIFICATIONS AND LOCAL JURISDICTIONS.
- PLEASE NOTE: PROPER CARE AND HANDLING OF HIGH-STRENGTH BOLTS IS CRITICAL TO THE ABILITY TO PRE-TENSION.
- ALL BOLTS ARE SHIPPED FROM THE FACTORY IN SEALED KEGS OR BAGS TO THE JOB SITE.
- USSJ CANNOT BE HELD RESPONSIBLE FOR BOLTS THAT FAIL AS A RESULT OF BOLTS NOT HANDLED IN A RESPONSIBLE FASHION.

REFERENCE THE LATEST RCSC EDITION SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS FOR PROPER JOBSITE HANDLING OF BOLTS.

UNITED STEEL STRUCTURES  
 the sound science company  
 1300 ENCLAVE PARKWAY, SUITE 400  
 FORT WORTH, TEXAS 76104  
 (817) 441-1300  
 FAX (817) 441-1304

Filed with the Iowa Utilities Board on September 21, 2023, HL P 2024 0001

BY	DATE	DESCRIPTION	ISSUE
JM	5/31/23	CERTIFIED FOR CONST.	0

CUSTOMER: SUMMIT CARBON SOLUTIONS

CUSTOMER PO#: 200-000161

PROJECT NAME: PINE LAKE CORN PROCESSORS STATION

BUILDING TYPE: PUMP BUILDING

LOCATION: BOB

6/5/23

JUDSON D. SMITH  
 9501  
 IOWA

JOB #: 4487

188584

DRAWN BY:

DATE:

CHKD BY:

DATE:

SCALE: N.T.S.

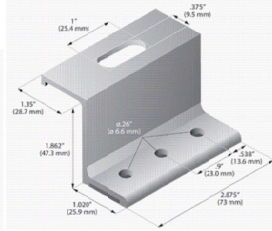
CROSS SECTION

DWG # E10 of

CERTIFIED FOR CONSTRUCTION



### VersaBracket-47™



#### Use With ColorGard®

The ColorGard® Crossmember simply fastens to the VersaBracket™ with self-drilling screws. Select a pre-painted metal color strip of your choice or simply use ColorGard® without a color strip. With or without the color strip, ColorGard® provides functional protection with a great look!

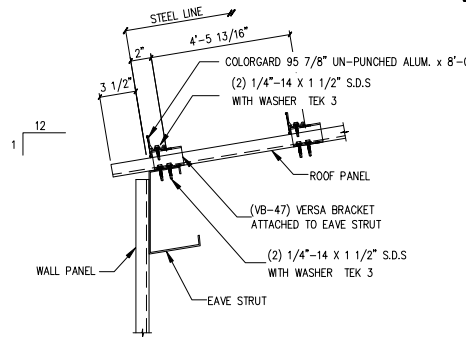
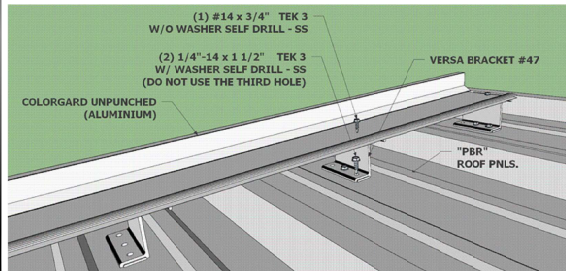


VersaBracket™ and ColorGard® without color strip.

#### Installation Is Simple!

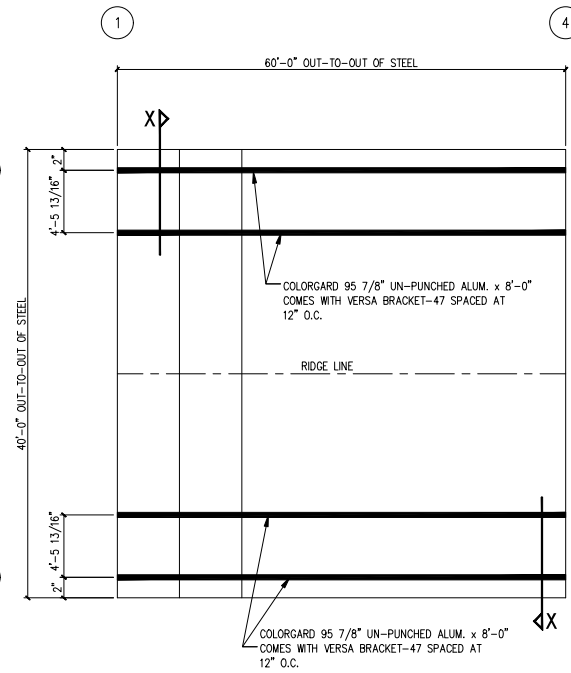


VersaBracket™ is mounted in the flat of the panel, directly into the supporting structure of the roof, i.e. wood decking, wood or steel purlins or trusses. No surface preparation is necessary; simply wipe away excess oil and debris, peel the release paper from the base and apply. Secure through the pre-punched holes using the appropriate screws for the supporting structure.




### SECTION "X" AT EAVE (LINES "A" & "C")

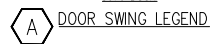
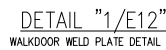
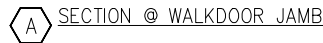
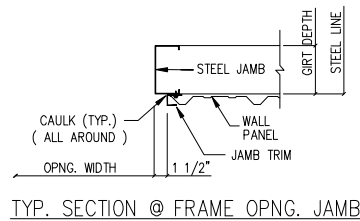
NOTE:  
ROOF TRIM NOT SHOWN FOR  
CLARITY (TYP.)



### COLORGARD LAYOUT

**CERTIFIED FOR  
CONSTRUCTION**

 <b>UNITED STEEL STRUCTURES</b> the sound science company 1300 ENCLAVE PARKWAY, SUITE 400 PINE LAKE, OHIO 44130 TEL: (440) 444-1300 FAX: (440) 444-1304 WWW.UNITEDSTEELSTRUCTURES.COM				BY	DATE	DESCRIPTION	ISSUE
				JM	5/31/23	CERTIFIED FOR CONST.	0
SUMMIT CARBON SOLUTIONS				CUSTOMER:	PO#	PROJECT NAME	BUILDING TYPE
200-000161				PINE LAKE CORN PROCESSORS STATION			
				PUMP BUILDING			
				100001 B01			
				6/5/23			
				JOB # 4487			
				188584			
				DRAWN BY:			
				DATE:			
				CHKD BY:			
				DATE:			
				SCALE: N.T.S.			
				COLORGARD DETAILS			
				DWG # E11 of			




**UNITED STEEL STRUCTURES  
INCORPORATED**

the sound science company

1330 ENCLAVE PARKWAY, SUITE 400  
HOUSTON, TEXAS 77077  
TEL (281) 496-1300  
FAX (281) 496-1314  
WWW.USSC.COM

CUSTOMER:	SUMMIT CARBON SOLUTIONS	ISSUE	DESCRIPTION	DATE	BY
CUSTOMER PO#:	200-000161	0	CERTIFIED FOR CONST.	5/23/23	JM
PROJECT NAME:	PINE LAKE CORN PROCESSORS STATION				
BUILDING TYPE:	PUMP BUILDING				
JOB LOCATION:	STEWART ROAD, IL 60091				

Filed with the Iowa Utilities Board on September 21, 2023, HL P-2021-0001



JOB #:	4487
	188584
DRAWN BY:	
DATE:	
CHKD BY:	
DATE:	
SCALE:	N.T.S.
ACCESSORY DETAILS	
DWG #	E12 of

**UNITED STEEL STRUCTURES  
INCORPORATED**

the sound science company

1330 ENGLAVE PARKWAY, SUITE 400  
HOUSTON, TEXAS 77077  
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[WWW.USSI.COM](http://WWW.USSI.COM)

Filed with the Iowa Utilities Board on September 21 2023, IUR 2024-0004

24 3/8" SQUARE FRAMED OPENING  
28 3/8" SQUARE RAIN FLANGE OD  
24 3/8" SQUARE RAIN HOOD OD  
24" SQUARE LOUVER

2 3/8"

(16) 7/16" HOLES FOR PUNCHED FLANGE, EVENLY SPACED

5"

SHEETING

24 3/8" SQUARE OPENING

AIR FLOW

EXTERIOR CUTAWAY

4"-4 5/16" A.E.F.

E SECTION @ WALL MOUNTED LOUVER

A technical cross-section diagram of a window sill assembly. The diagram shows a vertical wall panel meeting a horizontal sill. A jamb trim is installed between the wall panel and the sill. A 5/16 x 1 1/2 inch wide by 3/8 inch thick hex head stainless steel bolt passes through the wall panel, jamb trim, and sill. The bolt has a 2-inch threaded section exposed on the right side. Caulk is applied around the jamb trim. The sill has an 8-inch girth depth. A steel line is shown at the base of the wall panel. On the right side, there is a dimension of 3/16 inch bottom of sill and a note indicating a 4-7 1/8 inch offset from the centerline of the sill.

SILL

8" GIRTH DEPTH

STEEL LINE

5/16 x 1 1/2" W/ 3/8" HEX HEAD S.D.S.

CAULK (TYP.)  
(ALL AROUND)

JAMB TRIM

WALL PANEL

3/16" BOTTOM OF SILL

4'-7 1/8" AFF. OF CENTERLINE

2"

SILL DETAIL

A cross-sectional diagram of a window assembly at the jamb. The diagram shows a vertical jamb on the left and a horizontal sill at the bottom. A window unit is installed within the opening. The window unit consists of a sash with a multi-pane glass unit and a frame. The sash is held in place by a jamb liner and a jamb trim. The frame is secured with a 5/16 x 1 1/2" W/ 3/8" hex head S.D.S. (Self-Drilling Screw). The gap between the frame and the jamb is filled with caulk (typical) all around. The diagram also shows the wall panel and the jamb trim. Dimensions include 8" GIRTH DEPTH and 2" for the jamb trim. The opening width is labeled as OPNG. WIDTH.

Labels in the diagram include:

- JAMB
- 5/16 x 1 1/2" W/ 3/8" HEX HEAD S.D.S.
- WALL PANEL
- JAMB TRIM
- CAULK (TYP.) (ALL AROUND)
- OPNG. WIDTH
- 8" GIRTH DEPTH

TYP. SECTION @ JAMB

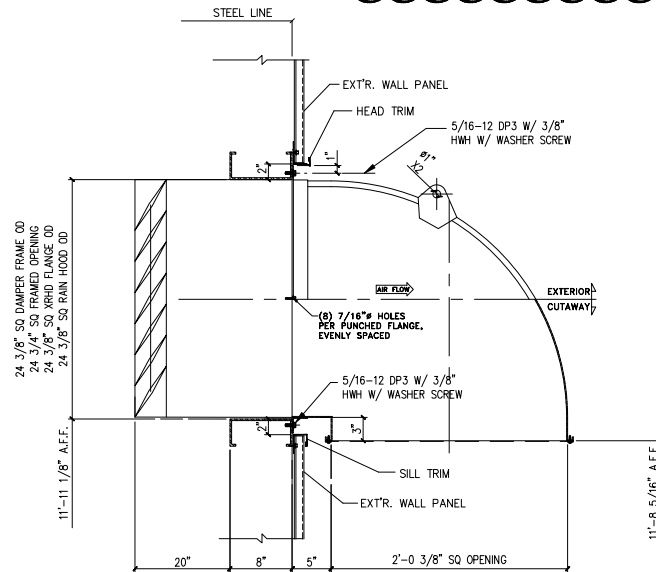
**CERTIFIED FOR  
CONSTRUCTION**

CUSTOMER:		CUSTOMER PO#:	PROJECT NAME:	PROJECT TYPE:	ISSUE	DESCRIPTION	DATE	BY
SUMMIT CARBON SOLUTIONS		200--000161	PHIL LAKE CORN PROCESSORS STATION	PUMP BUILDING	0	CERTIFIED FOR CONST.	5/19/23	JM
<div> <div> </div> <div> <div>SEABOARD</div> <div>LOCAL 1004</div> <div>1939</div> </div> </div>								

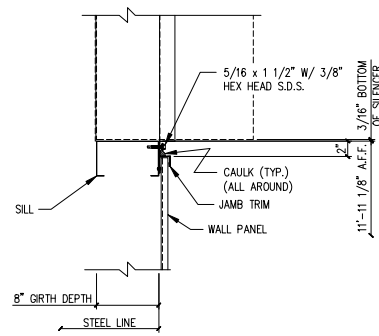
JOB #:	4487
	188584
DRAWN BY:	
DATE:	
CHECKD BY:	
DATE:	
SCALE:	N.T.S.
LOUVER DETAILS	
DWG #	E13 of



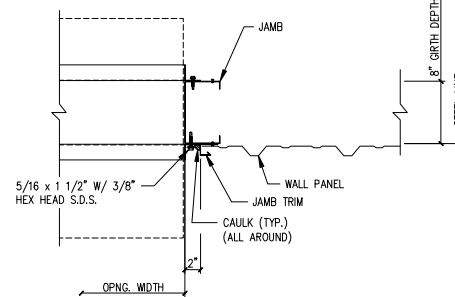
FAN BOX SHIMMED AS REQ'D.  
TO BE CTR'D. IN OPENING



### SECTION @ WALL MOUNTED FAN



SILL DETAIL



TYP. SECTION @ JAMB

**NOTE: GASKETING MATERIAL PROVIDED BY IVS FOR ALL FLANGE-TO-FLANGE CONNECTIONS; MUST BE APPLIED BY FIELD-INSTALLER TO ENSURE WEATHER-TIGHTNESS OF FLANGE JOINTS**

**CERTIFIED FOR  
CONSTRUCTION**

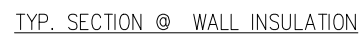
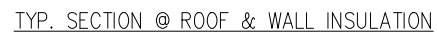


**UNITED STEEL STRUCTURES  
INCORPORATED**  
the sound science company  
1330 ENCLAVE PARKWAY, SUITE 400  
HOUSTON, TEXAS 77077  
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FAX (281) 496-1314  
WWW.USSI.COM

CUSTOMER:	SUMMIT CARBON SOLUTIONS	ISSUE	DESCRIPTION	DATE	BY
CUSTOMER P.O.#:	200-00061	0	CERTIFIED FOR CONST.	5/29/23	JM
PROJECT NAME:	PINE LAKE CORN PROCESSORS STATION				
BUILDING TYPE:	PUMP BUILDING				
JOB LOCATION:	STEWARTS ROCK, IL 62457				

JOB #:	4487
	188584
DRAWN BY:	
DATE:	
CHKD BY:	
DATE:	
SCALE:	N.T.S.
FAN DETAILS	
DWG #	E14 of

Filed with the Iowa Utilities Board on September 21 2023, IUBP 2021-0004



**UNITED STEEL STRUCTURES**  
INCORPORATED

the sound science company

1330 ENGLAVE PARKWAY, SUITE 400  
HOUSTON, TEXAS 77077  
OFFICE (281) 498-1300  
FAX (281) 498-1314

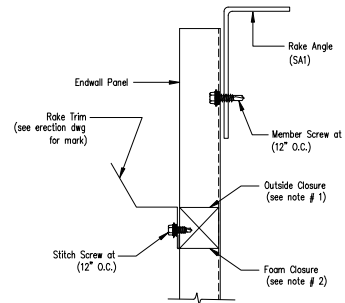
CUSTOMER:	SUMMIT CARBON SOLUTIONS	ISSUE	DESCRIPTION	DATE BY
CUSTOMER PO#:	200-000161	0	CERTIFIED FOR CONST.	5/21/23 JLM
PROJECT NAME:	PINE LAKE CORN PROCESSORS STATION			
BUILDING TYPE:	PUMP BUILDING			
JOB LOCATION:	STEAMBOAT ROCK, IA 50670			

JOB #: 4487
188584
DRAWN BY:
DATE:
CHKD BY:
DATE:
SCALE: N.T.S.
ROOF & WALL INSULATION
DWG # E15 of

Filed with the Iowa Utilities Board on September 24, 2023, HLP 2021-000

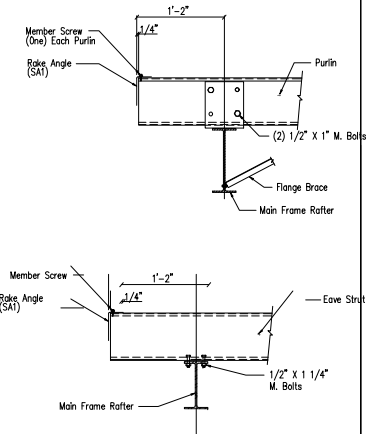
Note # 1: Outside panel closures are required on all sheeted endwalls with a roof slope of 2:12 or less.

Note # 2: 2x2 Foam Closure will replace the outside panel closures on all sheeted endwalls with a roof slope greater than 2:12.



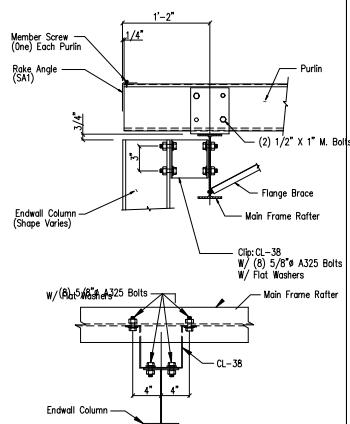
Endwall Panel Closure

DRAWING NO.  
TD205



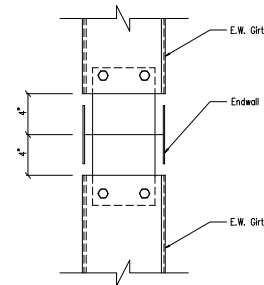
Main Frame Rafter Connection

DRAWING NO.  
SD10



WF Column to Main Frame Rafter Connection

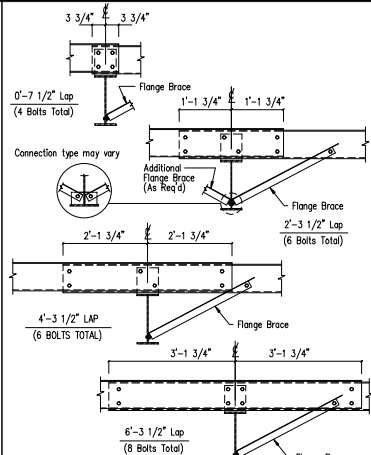
DRAWING NO.  
SD20



Note: All connection bolts are 1/2" x 1" machine bolts unless noted.

Girt to Hot Rolled Endwall Column Connection

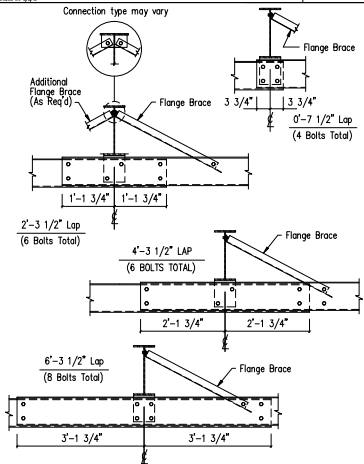
DRAWING NO.  
SD44



Note: All connection bolts are 1/2" x 1" machine bolts unless noted.

Interior Bay Purlin Framing

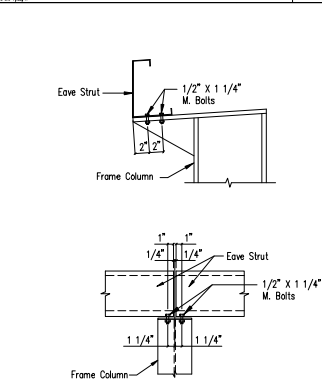
DRAWING NO.  
SD50



Note: All connection bolts are 1/2" x 1" machine bolts unless noted.

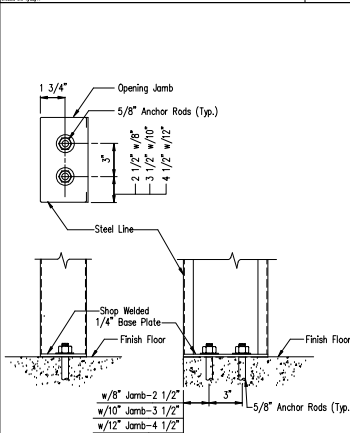
Interior Bay Girt Framing

DRAWING NO.  
SD51



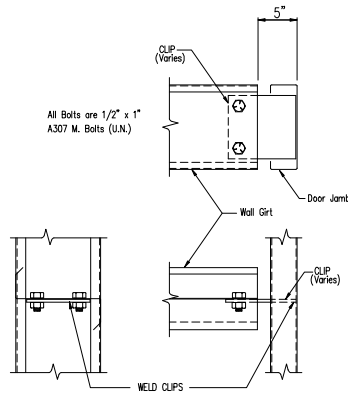
Eave Strut at Interior Column

DRAWING NO.  
SD59



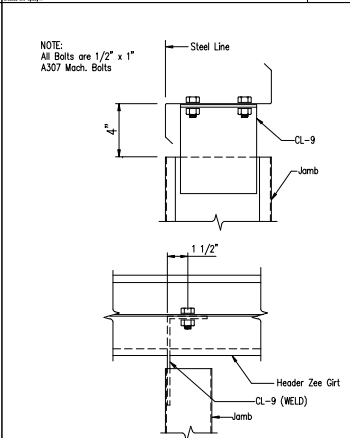
Jamb to Floor

DRAWING NO.  
SD85



Girt to Jamb

DRAWING NO.  
SD87



Jamb to Header Girt

DRAWING NO.  
SD94

UNITED STEEL STRUCTURES  
the sound science company  
1300 ENCLAVE PARKWAY, SUITE 400  
FARMINGTON, CT 06031  
TEL: (860) 444-1300  
FAX: (860) 444-1304

BY  
DATE  
5/31/23

DESCRIPTION  
CERTIFIED FOR CONST.

ISSUE  
0

SUMMIT CARBON SOLUTIONS  
CUSTOMER: 200-000161  
CUSTOMER PO#: PINE LAKE CORN PROCESSORS STATION  
PROJECT NAME: PUMP BUILDING  
BUILDING TYPE: INDUSTRIAL Bldg

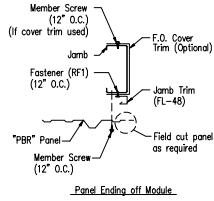
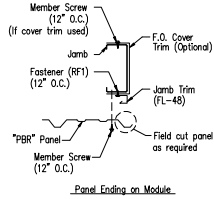
6/5/23  
JUDSON D. SMITH  
9501  
IOWA  
LICENSED PROFESSIONAL ENGINEER

JOB #: 4487  
188584  
DRAWN BY:  
DATE:  
CHKD BY:  
DATE:  
SCALE: N.T.S.  
STANDARD DETAILS  
DWG # E16 of

CERTIFIED FOR  
CONSTRUCTION

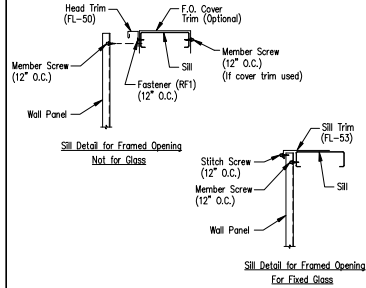
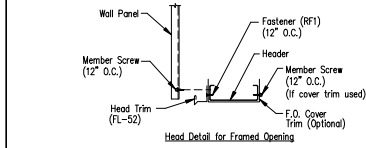
Filed with the Iowa Utilities Board on September 21, 2023, HL-P-2024-0001





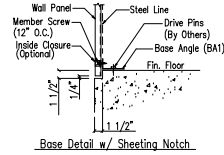
Jamb Detail For Framed Opening - PBR

DRAWING NO.  
TD51



Framed Opening Head and Sill Details

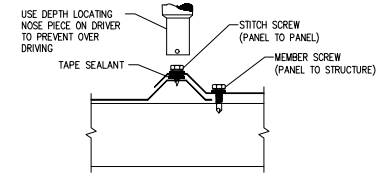
DRAWING NO.  
TD52



Base Angle w/o Trim

DRAWING NO.  
SD77

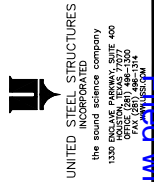
NOTE: If insulation is required install trim first.  
NOTE: A minimum of 1/4\"/>



APPLY SUFFICIENT TORQUE TO SEAT THE WASHER  
DO NOT OVER DRIVE THE FASTENER

CORRECT	TOO LOOSE	TOO TIGHT
SEALING MATERIAL SLIGHTLY VISIBLE AT EDGE OF WASHER. ASSEMBLY IS WEATHER TIGHT.	SEALING MATERIAL NOT VISIBLE. NOT ENOUGH COMPRESSION TO SEAL PROPERLY.	METAL WASHER DEFORMED, SEALING MATERIAL EXTRUDED BEYOND EDGE OF WASHER.

FASTENER INSTALLATION



BY	DATE	DESCRIPTION	ISSUE
JM	5/31/23	CERTIFIED FOR CONST.	0
SUMMIT CARBON SOLUTIONS			
CUSTOMER: 200-000161			
PROJECT NAME: PINE LAKE CORN PROCESSORS STATION			
BUILDING TYPE: PUMP BUILDING			
LOCATION: 600 N. 1000 W. BOONVILLE, MO 64609			



6/5/23

JOB #:	4487
DRAWN BY:	188584
DATE:	
CHKD BY:	
DATE:	
SCALE:	N.T.S.
STANDARD DETAILS	
DWG #	E18 of 18

CERTIFIED FOR  
CONSTRUCTION

Filed with the Iowa Utilities Board on September 21, 2023, HL-P 2024-0001

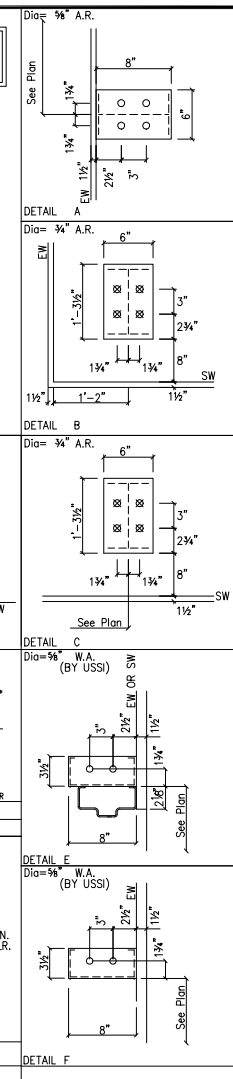
Filed with the Iowa Utilities Board on September 21, 2023, HL P 2024 0001

UNITED STEEL STRUCTURES  
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1300 ENCLAVE PARKWAY, SUITE 400  
OFFICE: (319) 484-1300  
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www.ussteel.com

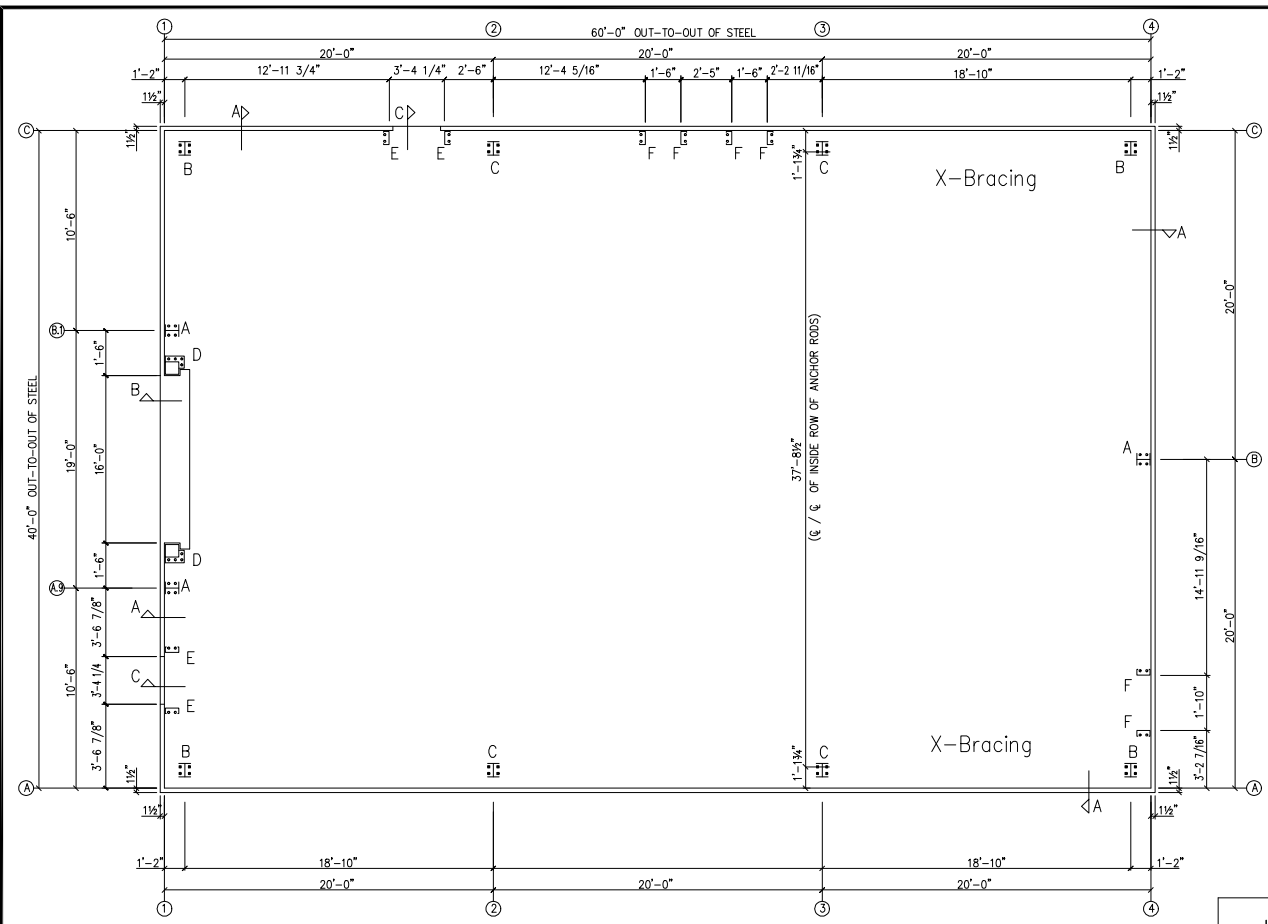
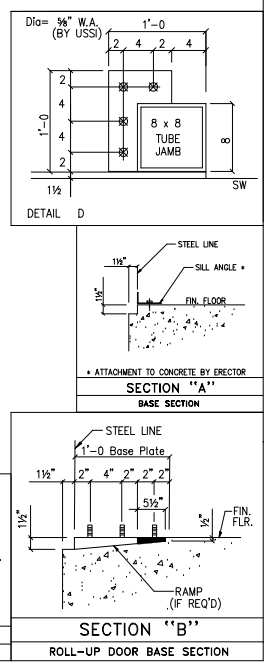
DATE	BY	DESCRIPTION	ISSUE
5/31/23	JM	CERTIFIED FOR CONST.	0
SUMMIT CARBON SOLUTIONS			
CUSTOMER: 200-000161			
PROJECT NAME: PINE LAKE CORN PROCESSORS STATION			
BUILDING TYPE: PUMP BUILDING			

6/5/23  
JUDSON D. SMITH  
9501  
IOWA  
LICENSED PROFESSIONAL ENGINEER

JOB #:	4487
DRAWN BY:	188584
DATE:	
CHKD BY:	
DATE:	
SCALE:	N.T.S.
ANCHOR ROD PLAN	
DWG # F1 of 2	



A.R. = ANCHOR ROD  
W.A. = WEDGE ANCHOR



ANCHOR ROD PLAN  
NOTE: ALL BASE PLATES @ 100'-0" @ FINISHED FLOOR UNLESS NOTED

ANCHOR RODS HAVE BEEN DESIGNED FOR SHEAR AND TENSION LOADS ONLY, PER APPENDIX D OF ACI 318-08.

DESIGN OF SHEAR ANGLES, TENSION PLATES, HAIRPINS, AND ANY OTHER EMBEDDED MATERIAL IN THE CONCRETE SHALL BE DETERMINED BY THE FOUNDATION DESIGN ENGINEER AND PROVIDED BY OTHERS.

ANCHOR ROD PROJECTION IS FROM BOTTOM OF BASE PLATE, UNLESS GROUT IS REQUIRED.

GENERAL NOTES:

① THE SOLE PURPOSE OF THIS DRAWING IS TO LOCATE ANCHOR RODS IN REFERENCE TO THE BUILDING STEEL LINE. U.S.S.I. SHOWS ONLY THEIR SUGGESTED PANEL RECESS. ALL OUT TO OUT OF CONCRETE DIMENSIONS ARE TO BE DETERMINED BY THE CUSTOMER.

② BOTTOM OF ALL BASE PLATES ARE AT THE SAME ELEVATION (UNLESS NOTED)

BY USSI

DIA.	QTY	REMARKS	T	PROJ
5/8"	28	WEDGE ANCHORS x 0'-4 1/2"	1"	1"
5/8"	12	ANCHOR ROD	3"	3"
3/4"	32	ANCHOR ROD	3"	3"

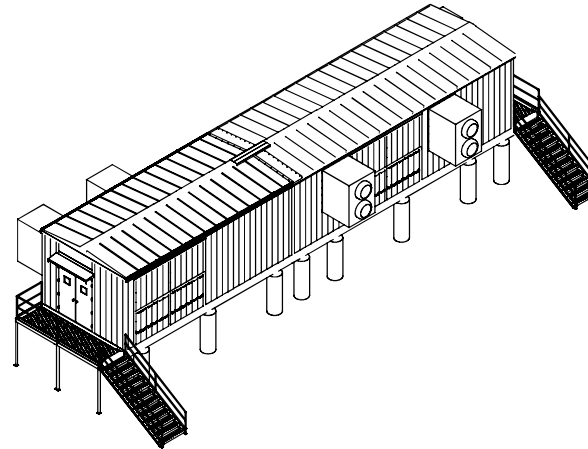
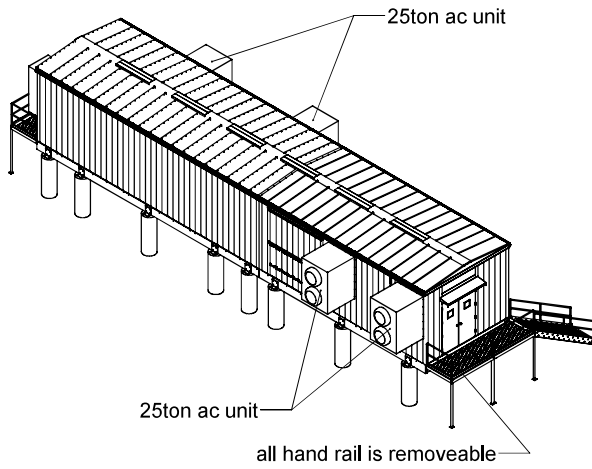
NOTE: SHEAR ANGLES AND/OR ANCHOR TIES ARE NOT FURNISHED BY U.S.S.I.

NOTE: ANCHOR ROD PROJECTIONS ARE FROM TOP OF CONCRETE. IF GROUT IS REQ'D, ADD GROUT THICKNESS TO ANCHOR ROD PROJECTION.

CERTIFIED FOR  
CONSTRUCTION



REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	Original design	2/24/23	RO



**Construction**  
 Floor is 5ga cold rolled steel with epoxy finish.

Walls are made from 12" wide self framing 16g interlocking standing seam.

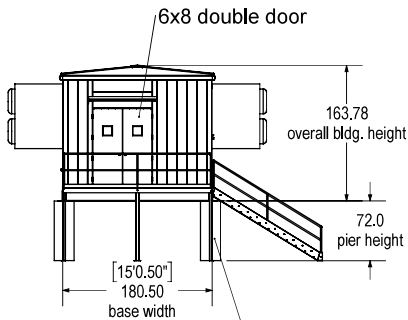
Roof is insulated with R19 fiberglass.  
 Walls are insulated with R11 fiberglass.  
 Floor is insulated with R25 fiberglass.

Roof is 16 ga standing seam panel with formed 12g galvanized trusses on 24" center.

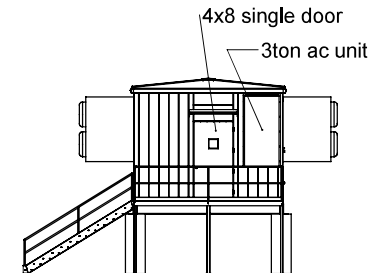
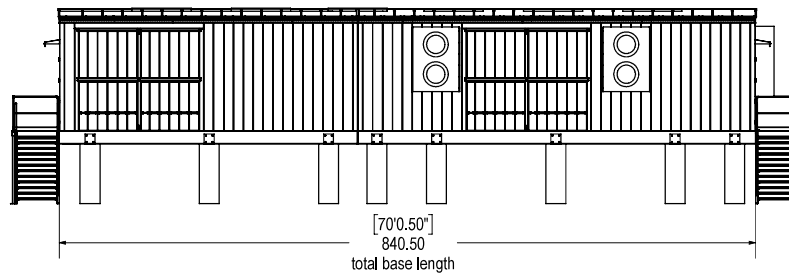
Interior panel walls and ceilings are 18ga interlocking panels.

Building corners and door frames are anchored with 5.5in x 5.5in posts welded to the frame.

Building is suitable for pad mounting.



-Piers are for show only  
 -To be built and designed by others



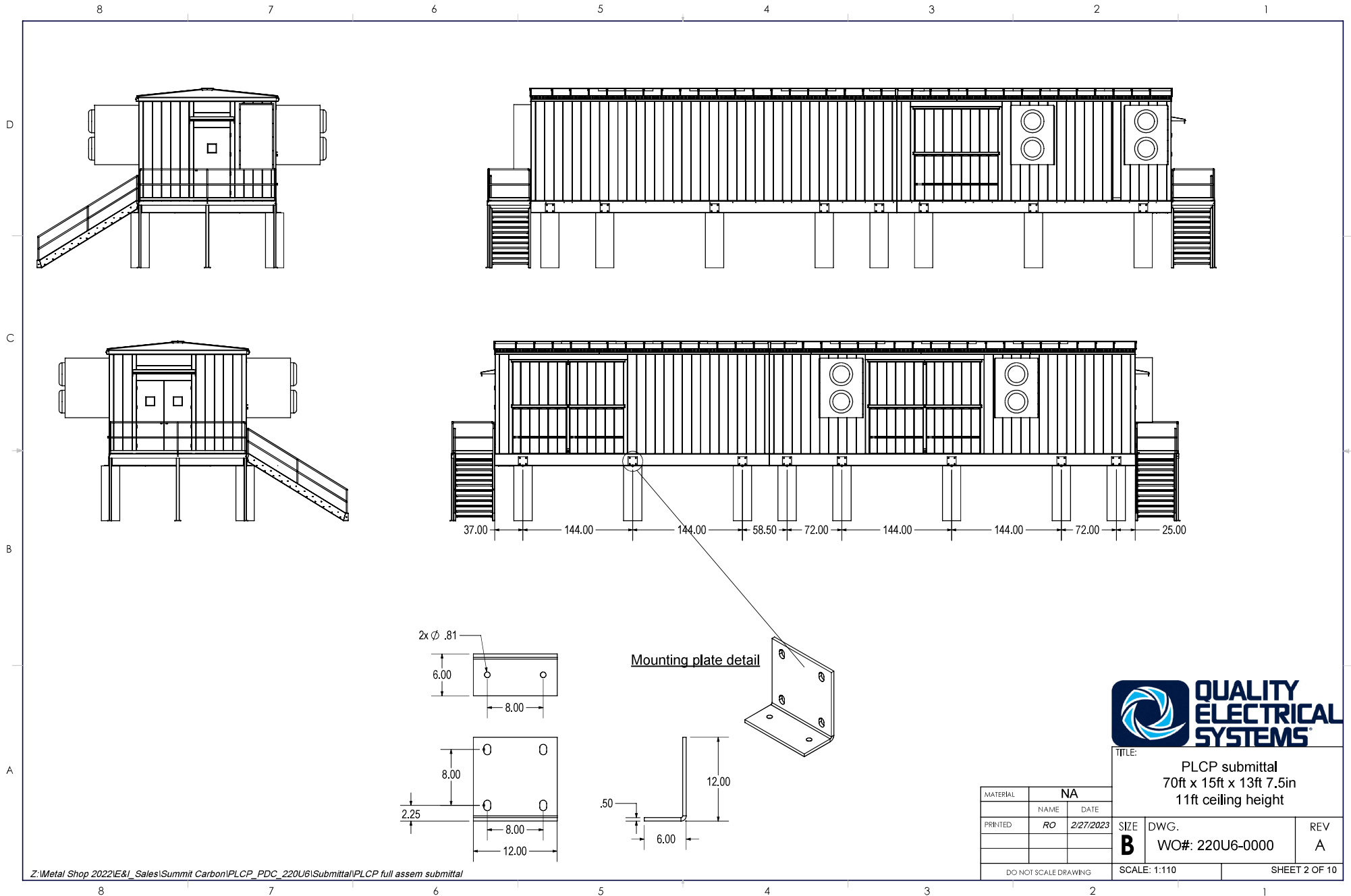
- Notes:**
1. FRAME AND FLOOR ARE PRIMED AND PAINTED WITH PPG MARINE DTM EPOXY.
  2. FLOOR IS TREATED WITH SAND AND RE-COATED TO PROVIDE A DURABLE NON-SLIP SURFACE.
  3. THE BALANCE OF THE BUILDING IS MANUFACTURED FROM ELECTRO GALVANIZED COLD ROLLED STEEL. HOT PHOSPHATIZED AND POWDER COATED. WHICH PROVIDES 2000HR SALT SPRAY PERFORMANCE.
  4. STANDARD COLOR IS WHITE EXTERIOR W/ WHITE INTERIOR.
  5. ROOF IS WHITE.
  6. ALL PANELS ARE PAINTED PRIOR TO BUILDING ASSEMBLY FOR SUPERIOR CORROSION RESISTANCE.
  7. BLDG. WEIGHT ESTIMATE: 133,000 lbs.

Z:\Metal Shop 2022\E&I\_Sales\Summit Carbon\PLCP\_PDC\_220U6\Submittal\PLCP full assem submittal

**PROPRIETARY AND CONFIDENTIAL**  
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF QUALITY ELECTRICAL SYSTEMS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF QUALITY ELECTRICAL SYSTEMS IS PROHIBITED.

TOLERANCES: BEND ± 1/16 WELDING/ASSEMBLY ± 1/8 <small>*UNLESS OTHERWISE SPECIFIED</small>			TITLE:  PLCP submittal 70ft x 15ft x 13ft 7.5in 11ft ceiling height		
MATERIAL		NA	SIZE <b>B</b> DWG. WO#: 220U6-0000 REV A		
	NAME	DATE			
PRINTED	RO	2/27/2023			
DO NOT SCALE DRAWING			SCALE: 1:150		SHEET 1 OF 10

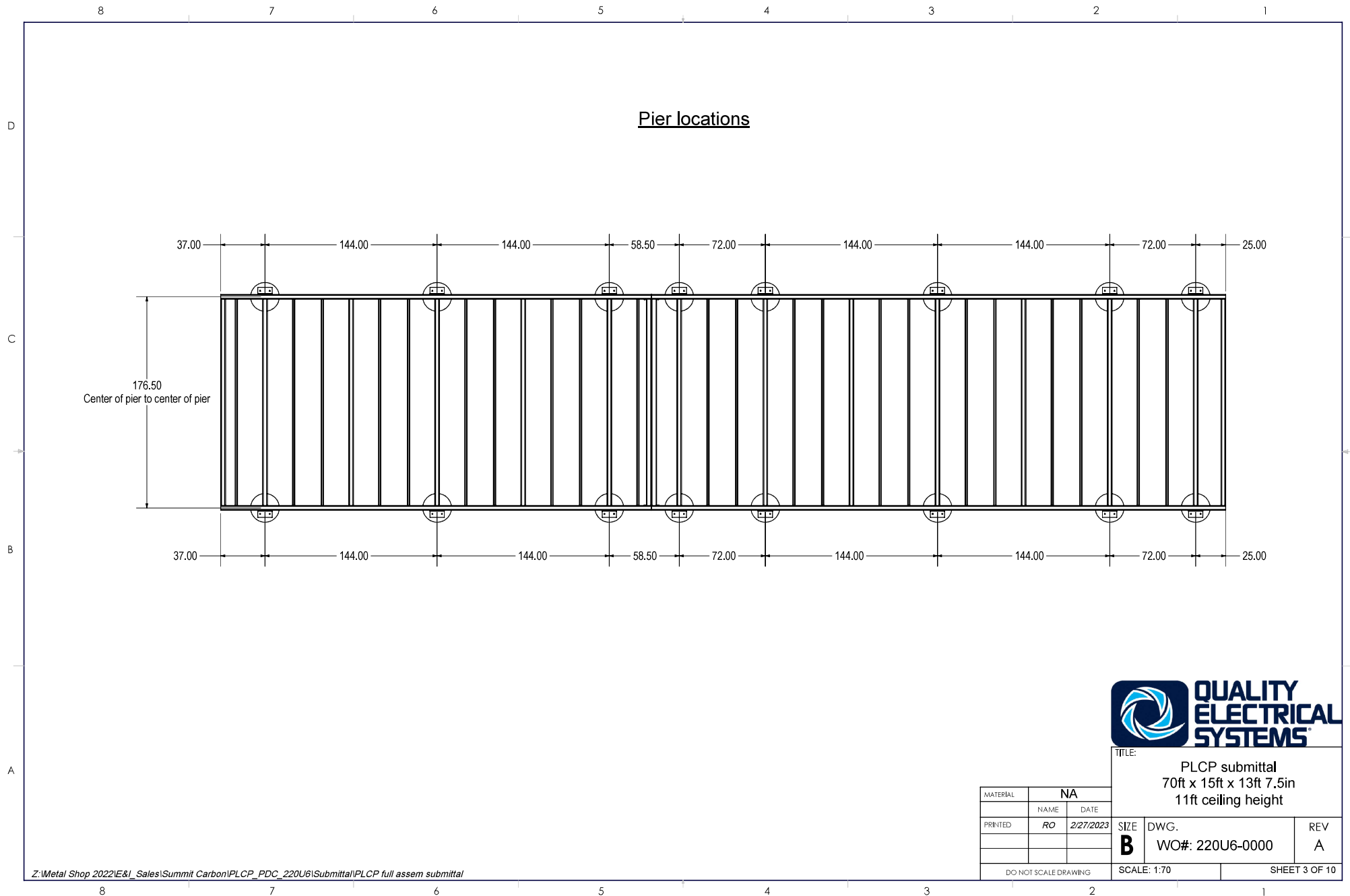




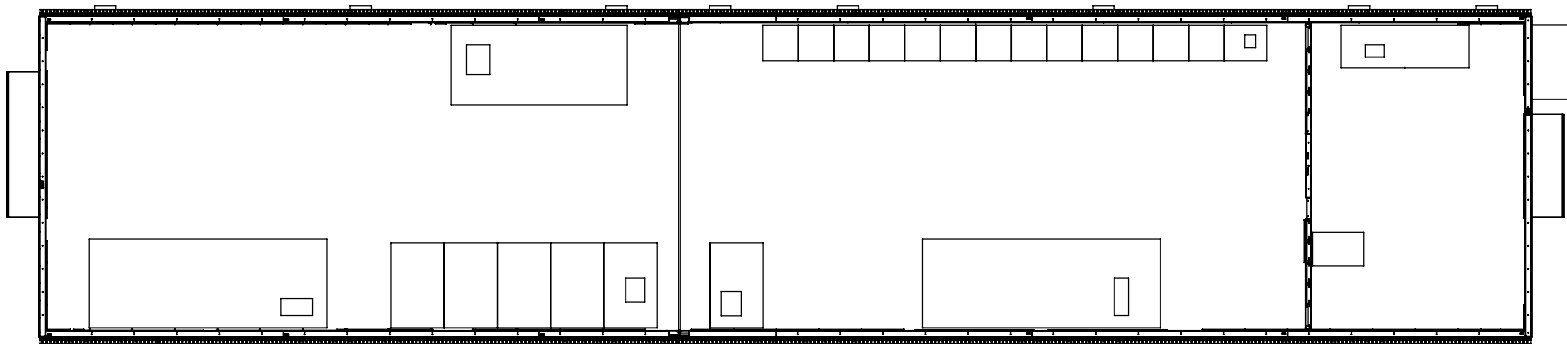
Z:\Metal Shop 2022\E&I\_Sales\Summit Carbon\PLCP\_PDC\_220U6\Submittal\PLCP full assem submittal



TITLE:			PLCP submittal		
			70ft x 15ft x 13ft 7.5in		
			11ft ceiling height		
MATERIAL	NA		SIZE	DWG.	REV
PRINTED	RO	2/27/2023	<b>B</b>	WO#: 220U6-0000	A
DO NOT SCALE DRAWING			SCALE: 1:110		SHEET 2 OF 10

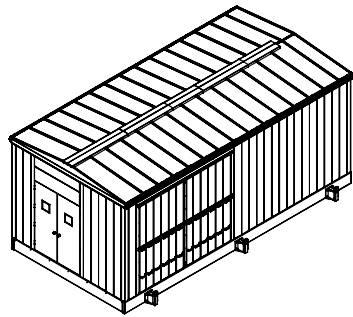


\*Floor Cut-outs to be finalized before fabrication\*

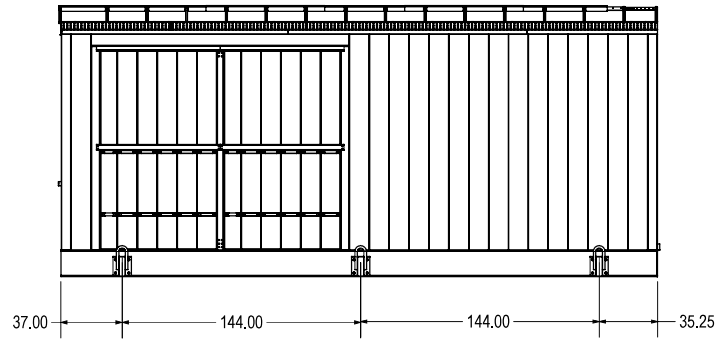
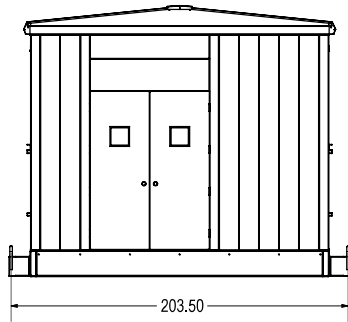
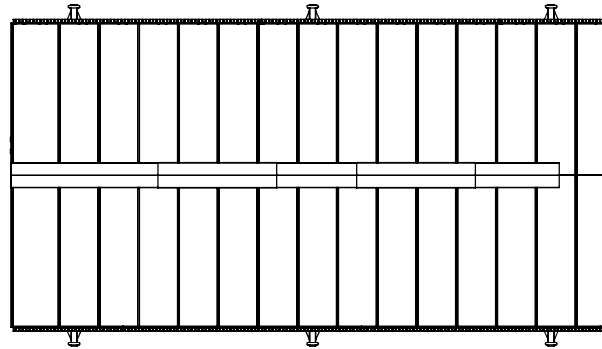


TITLE:  
PLCP submittal  
70ft x 15ft x 13ft 7.5in  
11ft ceiling height

MATERIAL		NA		701t x 151t x 151t 7.5m 11ft ceiling height		
NAME		DATE		SIZE <b>B</b>	DWG. WO#: 220U6-0000	REV A
PRINTED		RO 2/27/2023				
DO NOT SCALE DRAWING				SCALE: 1:70		SHEET 4 OF 10

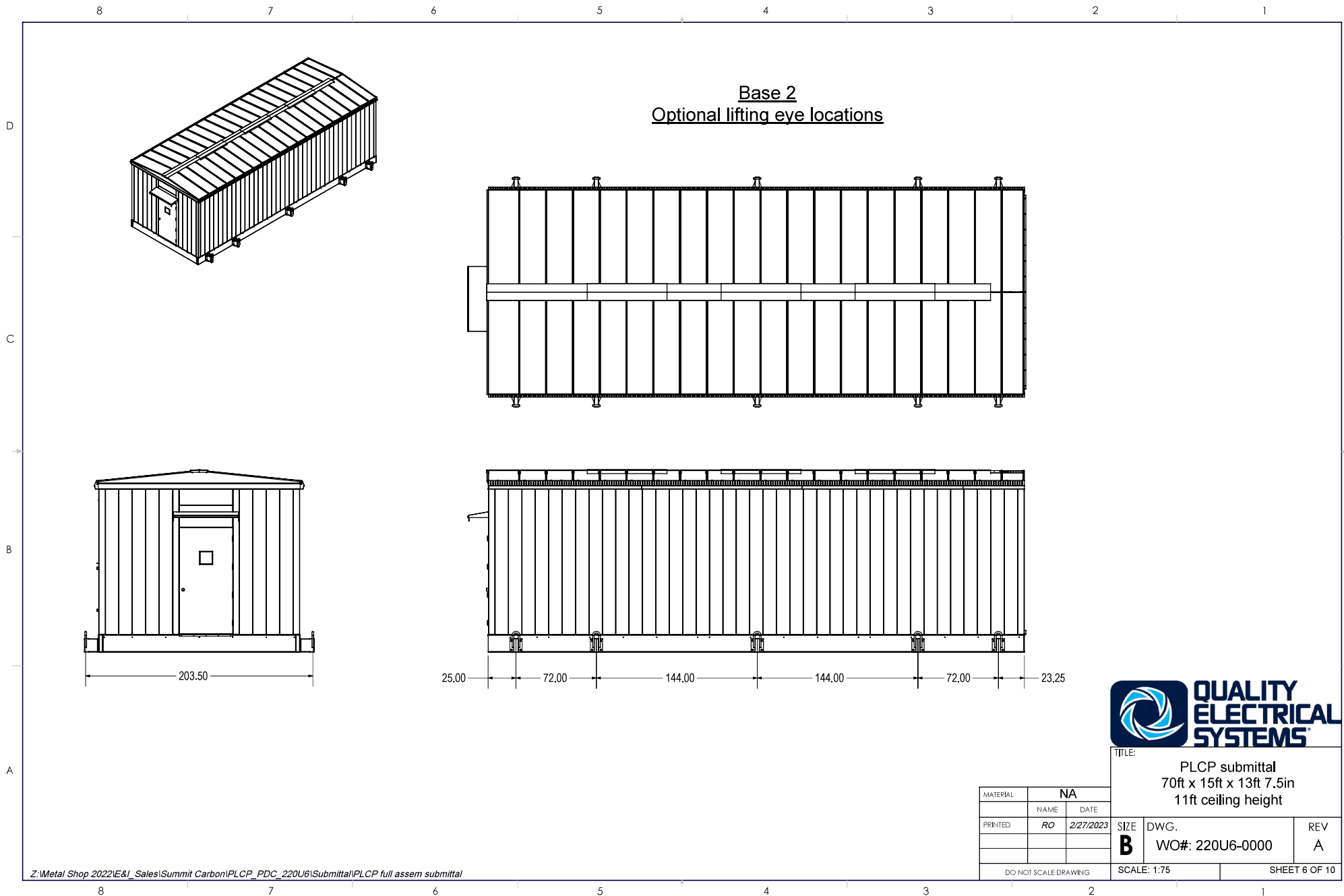


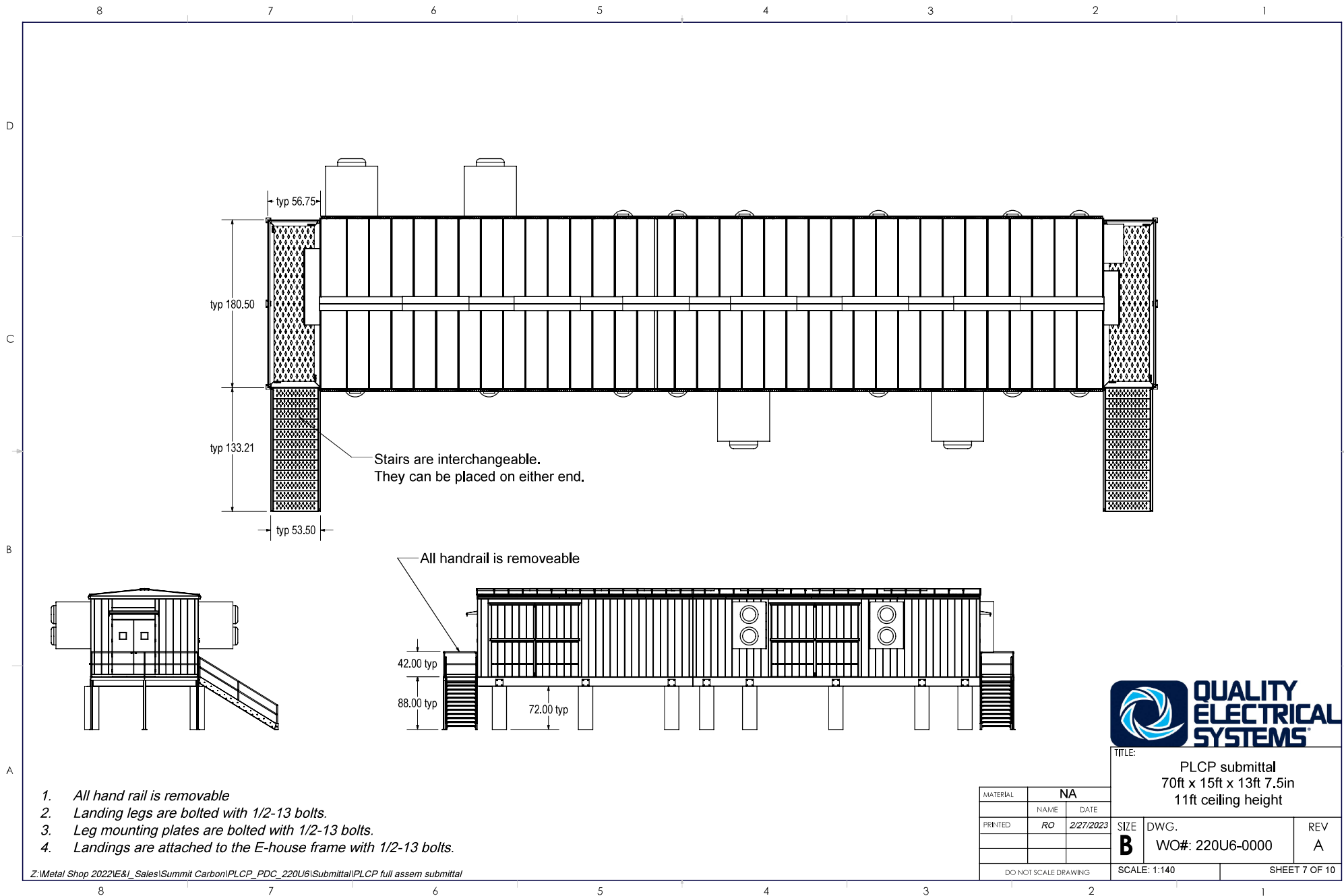
Base 1  
Optional lifting eye locations

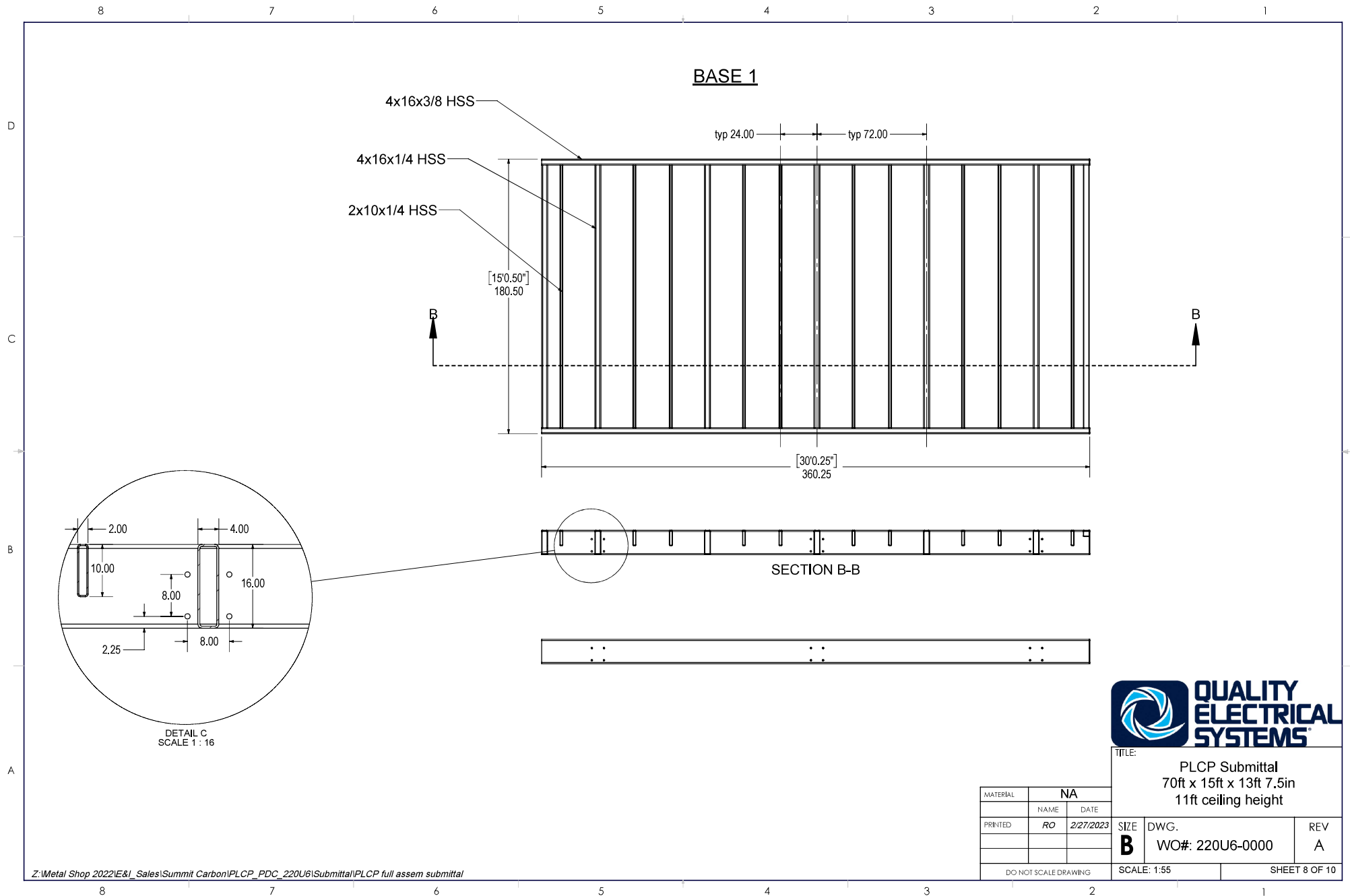


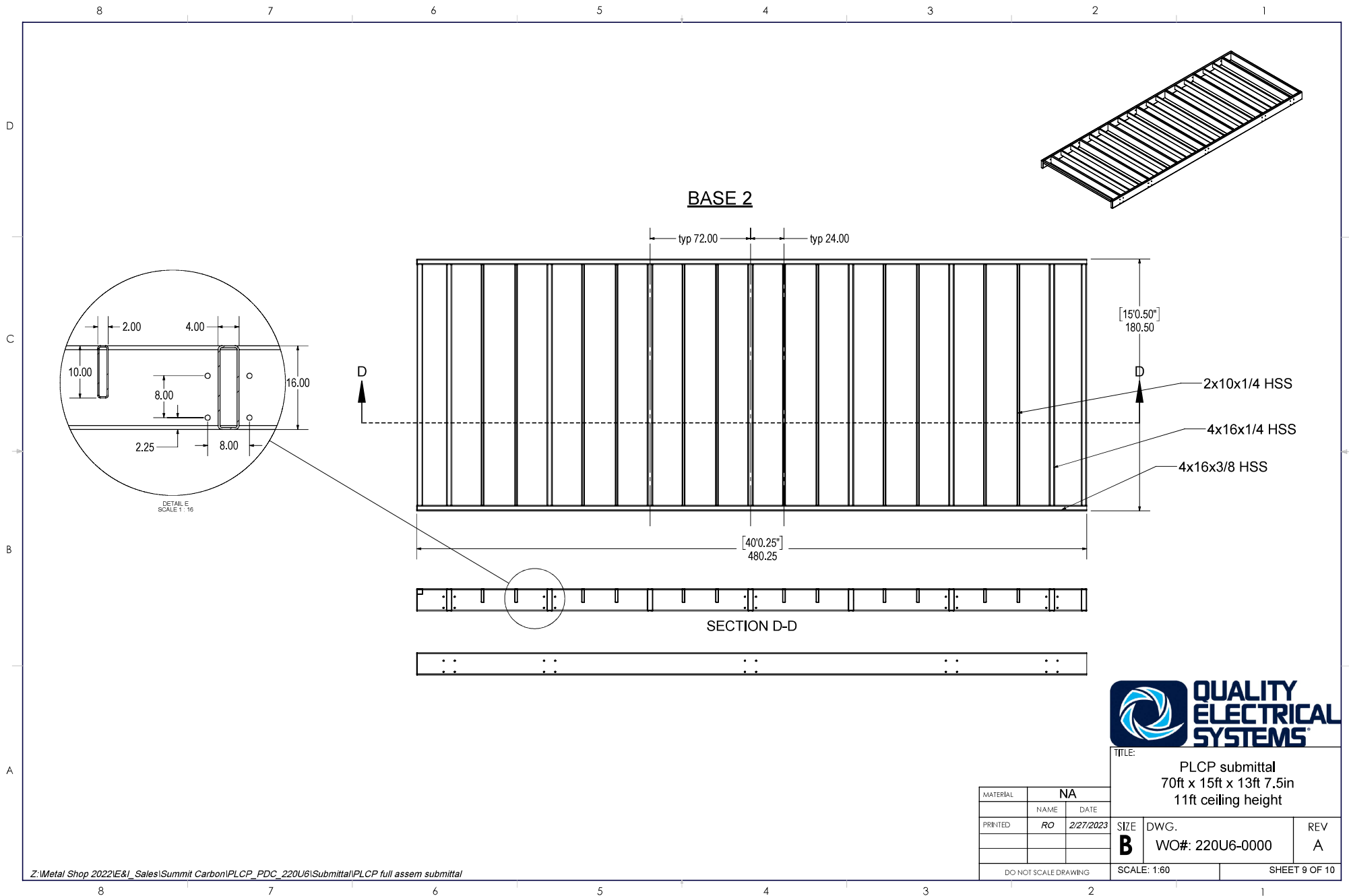
TITLE:  
PLCP submittal  
70ft x 15ft x 13ft 7.5in  
11ft ceiling height

MATERIAL			NA		
	NAME	DATE			
PRINTED	RO	2/27/2023	SIZE	DWG.	REV
			<b>B</b>	WO#: 220U6-0000	A
DO NOT SCALE DRAWING			SCALE: 1:75		SHEET 5 OF 10



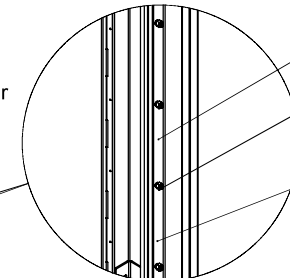
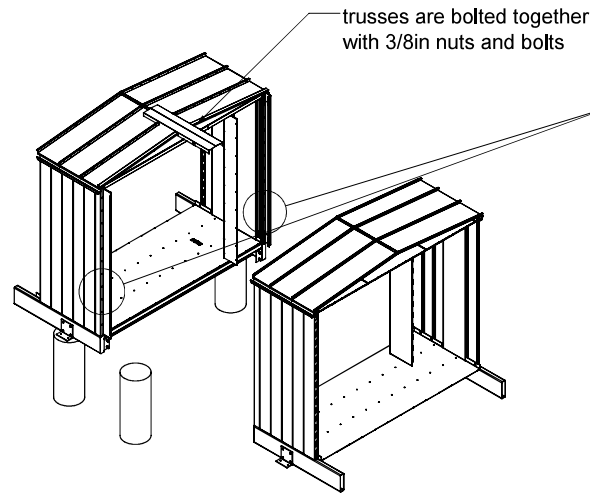
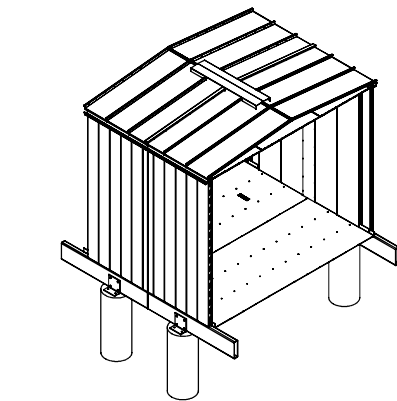






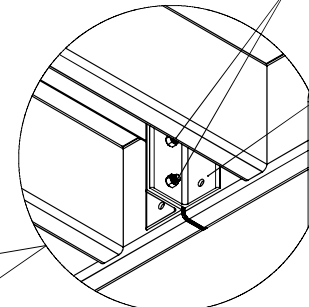
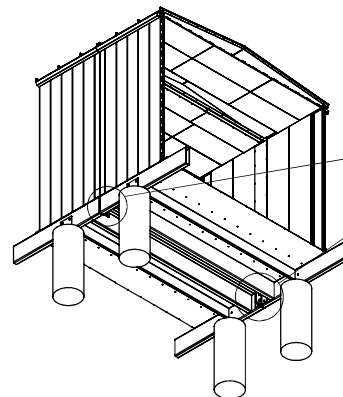
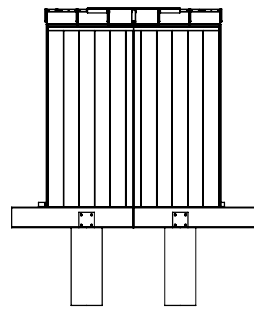


# Ehouse connection detail



DETAIL G  
SCALE 1 : 15

- 5ga CRS post
- 11ea per side  $\phi$  1/2in bolts w/nuts and washers
- 1/4in gasket all around to seal connection



DETAIL F  
SCALE 1 : 15

- 2ea per side  $\phi$  7/8in bolts w/nuts and washers
- 2ea per side 6x6x3/8 angle iron



TITLE:  
PLCP submittal  
70ft x 15ft x 13ft 7.5in  
11ft ceiling height

MATERIAL			NA		
	NAME	DATE			
PRINTED	RO	2/27/2023	SIZE	DWG.	REV
			<b>B</b>	WO#: 220U6-0000	A
DO NOT SCALE DRAWING			SCALE: 1:96		SHEET 10 OF 10



## POWER OF ATTORNEY

The undersigned, James Powell, Chief Operating Officer of each of (i) Summit Carbon Solutions, LLC, (ii) SCS Carbon Removal LLC, and (iii) SCS Carbon Transport LLC (collectively, “SCS”), does hereby make, constitute, and appoint TurnKey Logistics, LLC (“**Agent**”), SCS’s true and lawful agent, with full right, power, and authority to act for SCS and in SCS’s name, place and stead with respect to submitting, executing, and processing permit applications on behalf of SCS.

Giving and granting unto said Agent the full power and authority to do and perform each and every act, deed, matter, and thing whatsoever required and necessary to be done in and about the foregoing, as fully as SCS might or could do if present and acting.

Dated: June 21, 2022

### Summit Carbon Solutions, LLC

DocuSigned by:

*James Powell*

FBD5E4B03C74A2...

James Powell, Chief Operating Officer

### SCS Carbon Removal LLC

DocuSigned by:

*James Powell*

FBD5E4B03C74A2...

James Powell, Chief Operating Officer

### SCS Carbon Transport LLC

DocuSigned by:

*James Powell*

FBD5E4B03C74A2...

James Powell, Chief Operating Officer