



Clatsop County Public Works  
Jewell Storage Building Project 2024  
Clatsop County, Oregon  
Invitation to Bid

If you want to be included on a bid holders list, please send confirmation of bid download to the following email address: [roads@clatsopcounty.gov](mailto:roads@clatsopcounty.gov) or by fax to 503 325 9312. Include the project name, your company name, address, contact name, phone number and email address.

Addenda will be published on the County's website at <http://www.clatsopcounty.gov>. Bidder is responsible for checking website for addenda.

Bid Opening: April 11, 2024

# Jewell Storage Building Project 2024

## Table of Contents

| <u>Item</u>  | <u>Page</u> |
|--|-------------|
| Bidding Requirements .....                               | 3           |
| Invitation to Bid .....                                  | 4           |
| Scope of Work .....                                      | 5           |
| Information for Bidders .....                            | 7           |
| Bid Forms .....  | 11          |
| Bid Proposal Form .....                                  | 12          |
| Addendum Receipt (if any) .....                          | 13          |
| Bid Schedule .....                                       | 14          |
| First Tier Subcontractor Disclosure Form .....           | 16          |
| Instructions for Non-Collusion Affidavit .....           | 17          |
| Non-Collusion Affidavit .....                            | 18          |
| Standard Public Improvement Contract Bid Bond Form ..... | 19          |
| Contract Forms .....                                     | 20          |
| Sample Clatsop County Contract for Construction .....    | 21          |
| Performance Bond .....                                   | 27          |
| Payment Bond .....                                       | 29          |
| Special Provisions to ODOT Standard Specifications.....  | 31          |
| Attachments:   |             |
| Steel Building Plans by Braemar .....                    | 42          |
| Foundation Design Plans by Wisner Engineering .....      | 78          |
| Recessed Threshold Detail .....                          | 82          |
| South Bays Grading and Drainage Plans .....              | 83          |
| ADS Stormwater Details (3) .....                         | 84          |
| Oldcastle 253-SA-125 Detail .....                        | 87          |
| Site Plan .....  | 89          |

## **Bidding Requirements**

## Invitation to Bid

Clatsop County is conducting an Invitation to Bid for construction of a new storage building at our Jewell substation located at 79554 Highway 202 in Seaside. Plans and specs are available on the County website at <http://www.clatsopcounty.gov>. Plans can also be viewed at 1100 Olney Ave, Astoria, Or 97103. Contractor shall furnish all labor, materials and equipment as described herein. Sealed bids will be received by the County Engineer, Dean Keranen, at 1100 Olney Ave., Astoria, OR 97103 until 2:00 p.m. on April 11th, 2024, when they will be opened and publicly read. Any bid received after the time specified will not be considered. Faxed or electronic bids will not be accepted. Bid bond equal to ten percent of the total bid is required. Project is for Public Works subject to ORS 279C.800 to 279C.870. The County reserves the right to waive minor informalities and reject any or all bids not in compliance with all prescribed public bidding procedures and requirements and may reject for good cause any or all bids if it is deemed to be in the public interest to do so.

## **Scope of Work**

### **Background**

Clatsop County Public Works Department is conducting an Invitation to Bid for construction of a new storage building at our Jewell substation located at 79554 Highway 202 in Seaside. The structure is a steel structure with a concrete foundation.

### **Objective**

Clatsop County Public Works Department is looking to have the building constructed per the attached design plans and other documents.

### **Execution**

The work to be done under this contract consists of the following:

- Provide all equipment, materials, labor and incidental work necessary to complete the contract according to the plans, specifications and permits for the project. The Steel building components (aside from the anchor bolts) and insulation have been purchased and are on-site.
- Contractor will comply with all OSHA safety guidelines.
- Preconstruction meeting is required two (2) weeks prior to proceeding with work.
- Clatsop County will provide surveying for building offsets to the four corners of the buildings and the storm line construction.
- Clatsop County will provide a flat site near the finish pad elevation for construction of the building.
- Contractor is responsible for all foundation excavation. Spoils from excavation may be left in a pile on site at a location determined by the Jewell Foreman.
- Contractor to install the drainage system for the two south bays per the plan provided.
- Contractor to construct the foundation and building pad per the design plans by Wisner Engineering taking into account bolt locations indicated on the building plans by Braemar Building Systems. Bolt sizes are per Braemar. Bolt lengths and embedment are per Wisner. Anchor bolts shall be supplied by the contractor. Do not use the garage door rain guard detail in Wisner plans. Option of recessed threshold at garage doors to be chosen at time of construction from the options provided.
- Contractor to construct steel building in accordance with Braemar Building System plans. Contractor is solely responsible for accurate, good quality workmanship in erecting this building in conformance with this drawing, details referenced in the drawing as well industry standards pertaining to proper erection including proper use of temporary bracing. See design plans for additional notes and instructions.
- Upon completion of construction, contractor shall remove all temporary appurtenances used for the project.
- Overhead doors and electrical work to be done under separate bids.

**Proof of Competency and Qualification of Bidders**

1. Bidders shall be required to furnish evidence, satisfactory to the Owner, that the bidder and the bidder's proposed subcontractors have sufficient means and experience in the types of work required to assure completion of the Contract in a satisfactory manner.
2. A contract will be awarded only to a responsible bidder, qualified by experience and in a financial position to perform the work specified.
3. Bidder shall submit with their bids the following evidence of eligibility:
  - a. Evidence that bidder is licensed by the appropriate government agencies to perform the work specified.
  - b. Experience record showing bidder's training and experience in similar work.
  - c. List a brief description of projects of similar size and/or complexity satisfactorily completed, with location, dates of contracts, names of contracts, and names, addresses, phone numbers and email addresses of the owners.

**Contact List**

|                            |               |              |
|----------------------------|---------------|--------------|
| Project Manager            | Ted McLean    | 503 325 8631 |
| Project Manager Cell Phone | Ted McLean    | 503 791 2907 |
| Public Works Director      | Terry Hendryx | 503 325 8631 |
| County Engineer            | Dean Keranen  | 503 325 8631 |

**Information for Bidders**  
**Clatsop County Public Works Jewell Storage Building Project 2024**

**Time of Project Completion**

- Proposed to complete all project work by June 30, 2024. If this timeline is not able to be met, bidder shall provide a proposed date of completion within the bid forms.
- Work of the contract shall continue without delay or interruption once it has begun.

**Time and Place for Receiving Proposals**

Sealed bids will be received at the Clatsop County Public Works Office of Dean Keranen, County Engineer, 1100 Olney Avenue, Astoria, Oregon 97103, until 2:00 p.m. on April 11, 2024 at which time they will be opened and read aloud. Bids shall be submitted in a sealed package or envelope clearly marked with the project name along with the return name and address of the proposer and the due date identified on the outside.

**Bidders Checklist**

The bidder's attention is especially called to the following forms, which must be executed in full before the bid is submitted:

(a) Bid Proposal Forms

Proposal sheets are to be filled in, either typed or in ink, and signed by the bidder.

Bid Schedule

The unit price (if any) must be shown in the space provided. The unit price shall be used as the determining factor in case of error in price extension.

(b) First-Tier Subcontractor Disclosure submitted within two hours of bid deadline. A First Tier Subcontractor Disclosure Form is required for public improvements with an estimated value of more than \$100,000.

(c) Non-Collusion Affidavit is to be completed.

(d) Bid Bond

A surety bond, irrevocable letter of credit issued by an insured institution as defined in ORS 706.008, cashier's check or certified check of bidder for 10% of the amount bid shall be attached to all bids as bid security.

(e) Additional documents as required under the Proof of Competency and Qualification of Bidders section.

(f) The Bid Forms must be returned on or before the date specified.

(g) The County may reject any bid not in compliance with all prescribed public contracting procedures and requirements and may reject for good cause all bids upon a finding of the County that it is in the public interest to do so.

**Project Schedule**

| <b>EVENT</b>  | <b>DATE/TIME &amp; LOCATION</b>  |
|---|--|
| Deadline for requests for interpretations   | April 4, 2024 at 4:00 p.m.   |
| Bid Opening   | April 11, 2024 at 2:00 p.m. at<br>Clatsop County Public Works<br>1100 Olney Avenue, Astoria, OR 97103      |
| First-Tier Subcontractor Disclosure form  | April 11, 2024 at 4:00 p.m. at<br>Clatsop County Public Works<br>1100 Olney Avenue, Astoria, OR 97103      |
| Preliminary Bid Results   | Will be published on County’s website at<br><a href="http://www.co.clatsop.or.us">www.co.clatsop.or.us</a> |
| Notice of Intent to Award issued  | Will be published on County’s website at least 7 days prior to Award of Contract,                          |
| Estimated Award of Contract   | May 8, 2024  |
| Execution of Contract   | Following Award of Contract and contractor submission of required documents as per this Invitation To Bid  |
| Time of (Contract) Completion (unless modified by in accordance with contract provisions) | June 30, 2024 unless otherwise agreed upon   |

**Addenda**

County will not mail notice of Addenda, but will publish notice of any Addenda on County’s Web site. Addenda may be downloaded off the County’s web Site at <http://www.co.clatsop.or.us>. Offerors should frequently check the County’s web site until closing; at last once daily the week of closing.

**Contract Terms**

The successful bidder for a public improvement contract shall promptly execute and deliver to Clatsop County:

- (a) A Performance Bond in an amount equal to the full contract price, conditioned on the faithful performance of the contract in accordance with the plans, specifications and conditions of the contract. Performance bond must be executed solely by a surety company or companies holding a certificate of authority to transact surety business in the State of Oregon and payable to Clatsop County.

- (b) A Payment Bond in an amount equal to the full contract price, solely for the protection of claimants under ORS 279C.600. Payment bond must be executed solely by a surety company or companies holding a certificate of authority to transact surety business in the State of Oregon and must be payable to Clatsop County.
- (c) Contractors must have a Public Works Bond in the amount of \$30,000 filed with the Oregon Construction Contractors Board before starting work on a contract or a subcontract for a public works project. A contractor or subcontractor shall file with the Construction Contractors Board a public works bond with a corporate surety authorized to do business in Oregon in the amount of \$30,000, unless exempted under ORS 279C.836. Form is available online at the Bureau of Labor.
- (d) Clatsop County Contract for Construction to be executed by the successful bidder.
- (e) Certificate of Insurance - Property and General Liability Certificates of Insurance satisfying the requirements as stated herein will be required.
- (f) Certificate of Insurance - Workers Compensation Coverage - Certificate of Insurance satisfying the requirements as stated herein will be required.
- (g) Time for Agency Acceptance – Contractor’s offer must be a Firm Offer, valid and binding on the Offeror for not less than 60 days from closing.
- (h) Bidder must promptly execute contract and deliver performance bond, payment bond and proof of insurance, or forfeit the bid security that accompanied the bid.

Bidder acknowledges that he/she is aware of, fully understands and intends to comply with documents and regulations that are hereby made a part of these specifications:

- Prevailing Wage Rates in accordance with ORS 279C.800 to 279C.870.
- Non-discrimination in awarding of subcontracts in accordance with ORS 279A.110.
- ORS 279A.120 regarding local bidder preference.
- Contractor certifies that all subcontractors performing work described in ORS 701.005(2) will be registered with the Construction Contractors Board, or for work as a landscape contractor has a current, valid landscape contractors’ license issued pursuant to ORS 671.560 by the State Landscape Contractors Board.
- Contractor certifies that they are in compliance with the Oregon tax laws in accordance with ORS 305.385.
- ORS 279C.580 regarding contractor’s relations with subcontractors.
- ORS 279C.525 regarding Environment and natural resources regulations.

- ORS 279C.605 regarding notice of claim.
- ORS 279C.510 (1) regarding salvaging and recycling of demolition debris.
- ORS 279C.600 thru ORS 279C.6610 regarding Action on Payment and Public Works Bonds.
- ORS 279C.650 thru ORS 279C.670 regarding Termination of Contract for Public Interest Reasons.
- The County reserves the right to waive minor informalities and reject any or all bids not in compliance with all prescribed public bidding procedures and requirements and may reject for good cause, including Bidder responsibility under ORS 279C.375(c)(b), any or all bids if it is deemed to be in the public interest to do so.

### **Liquidated Damages**

Liquidated damages shall apply against the successful bidder (the Contractor) and accrue to the Owner at the rate of five hundred dollars (\$500) per day for every day that the project remains uncompleted beyond the agreed upon time period.

### **Prevailing Wage Rates**

The “Prevailing Wage Rates for Public Works Contracts in Oregon” dated January 5, 2024, and any amendments are hereby included in these specifications by reference. The wage rates can be accessed at:  
[http://www.oregon.gov/boli/WHD/PWR/Pages/pwr\\_state.aspx](http://www.oregon.gov/boli/WHD/PWR/Pages/pwr_state.aspx).

### **Project Plans**

Contractor will complete the project in accordance with this invitation to bid and the plans, specifications and permits located within the referenced attachments.

### **Questions and requests for interpretations shall be directed to:**

Dean Keranen, PE, County Engineer  
1100 Olney Avenue  
Astoria, OR 97103  
Phone: 503-325-8631 [dkeranen@clatsopcounty.gov](mailto:dkeranen@clatsopcounty.gov)

Any Bidder that finds discrepancies in, or omissions from any provision of the ITB, Plans, Specifications, or Contract Documents or has doubt as to the meaning, shall make a request for interpretation in writing, to the contact point listed above. The deadline for the request for interpretations can be found in the project schedule table. An addendum will be issued if a substantial clarification is in order.

The County shall make interpretations, corrections, or changes of the Invitation to Bid in writing by published addendum only. Interpretations, corrections, or changes in any other manner will not be binding and Bidders shall not rely upon such interpretations, corrections, and changes.

## **Bid Forms**

**Bid Proposal Form**  
**Clatsop County Public Works Jewell Storage Building Project 2024**

The undersigned, as bidder declares:

That the only person or parties interested in this Proposal as principals are those named therein;

That this Proposal is made without collusion with any other person, firm or corporation;

That he has carefully examined and fully understands the bid documents: "Proposal and Specifications for the Clatsop County Public Works Jewell Storage Building Project 2024, Invitation to Bid, Information for Bidders, Special Provisions, Prevailing Wage Rates, Bid Forms, and Contract, on file in the office of the Public Works Department office at 1100 Olney Avenue, Astoria, Oregon and are hereby made a part of this agreement;

That he submits this Proposal subject to the terms and conditions stated in the Bid Documents;

That if this bid is accepted, he will contract with said Clatsop County in the approved form of contract, to provide all necessary machinery, tools, apparatus, and other means of construction and to do all work and furnish all the materials specified in the contract in the manner and time therein prescribed and according to the requirements as therein set forth;

That he will accept as full payment, therefore, the amount earned under the contract in the manner described in the Bid Documents;

That he will comply with the provisions of ORS 279C.840 regarding prevailing wage rates and all other applicable provisions of Oregon law as well as all Clatsop County ordinances and rules relating to public contracting;

That he has not discriminated and will not discriminate against minority, women, or emerging small business enterprises or against a business enterprise that is owned or controlled by or that employs a disabled veteran in obtaining any required subcontracts;

That he is not in violation of any Oregon Tax Law;

That he is registered with the Construction Contractors Board as required by ORS 701.055

That he has an employee drug testing program in place in compliance with ORS 279C.505(2)

That after having carefully examined the Specifications covering the project, the bidder proposes to furnish all necessary labor, materials, and equipment and to perform the work in full accordance with said Specifications in the quantity(ies) and Price(s) as shown on Schedule of Prices.

Bid Proposal – 1

### Addendum Receipt (if any)

The receipt of the following addenda to Specifications is hereby acknowledged. Attach additional sheets if more than three (3) addendums.

ADDENDUM NO. \_\_\_\_\_ DATE: \_\_\_\_\_

ADDENDUM NO. \_\_\_\_\_ DATE: \_\_\_\_\_

ADDENDUM NO. \_\_\_\_\_ DATE: \_\_\_\_\_

The names of the president, treasurer, and manager of the bidding corporation, or the names and residences of all persons and parties interested in this Bid as partners or principals are as follows:

| Name  | Address |
|-------|---------|
| _____ | _____   |
| _____ | _____   |
| _____ | _____   |
| _____ | _____   |

The names of the surety by which the Performance Bond covering the Contract, if awarded, will be furnished, and the name, address and phone number of the surety's local agent are as follows:

Name of Surety \_\_\_\_\_

Name of Agent \_\_\_\_\_

Address \_\_\_\_\_

Phone Number \_\_\_\_\_

Bidder acknowledges that he is aware of the provisions of ORS 279C.375. This law requires public contracting agencies, in determining the lowest responsible bidder, to add a percent increase to each out-of-state bidder's bid price which is equal to the percent of preference given to local bidders in that bidder's home state. In other words, if the low bidder is from a state that grants a 10 percent preference to local bidders, the Oregon agency must add 10 percent to that bidder's bid price when evaluating the bid.

**Bid Schedule**  
**Clatsop County Public Works Jewell Storage Building Project 2024**

| Item # | Description  | Quantity |          | Unit Price | Total Price |
|--------|--|----------|----------|------------|-------------|
| 1      | Installation of drainage system for south bays                             | 1        | Lump Sum |            |             |
| 2      | Foundation and Building pad Construction including Excavation and backfill | 1        | Lump Sum |            |             |
| 3      | Steel Building Construction  | 1        | Lump Sum |            |             |

Bidder Name \_\_\_\_\_ Total \$ \_\_\_\_\_

Proposed date of completion if unable to meet the proposed deadline of June 30, 2024:

\_\_\_\_\_

Pursuant to ORS 279A.120 the bidder is directed to complete the following:

- |   | YES   | NO    |
|---|-------|-------|
| 1. Is bidder a resident bidder?   | _____ | _____ |
| 2. Has bidder paid Oregon unemployment and income taxes within the last 12 months immediately preceding this bid? | _____ | _____ |
| 3. Does bidder have a business address in Oregon?   | _____ | _____ |
| 4. If you are a non-resident bidder: _____ % is the preference granted by your resident state to local bidders.   |       |       |

Dated: \_\_\_\_\_

Bidder: \_\_\_\_\_

Signature: \_\_\_\_\_

Printed Name: \_\_\_\_\_

Title: \_\_\_\_\_

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

Phone: \_\_\_\_\_

Email: \_\_\_\_\_

Federal Tax I.D. No.: \_\_\_\_\_

Oregon Contractors Board Registration: \_\_\_\_\_

**First Tier Subcontractor Disclosure Form**  
**For Public Improvements with a contract value of more than \$100,000**  
**(ORS 279C.370)**

Project Name: Clatsop County Public Works Jewell Storage Building Project 2024  
 Closing Date: April 9, 2024 at 2:00 p.m.

Subcontractor Disclosure Deadline: April 9, 2024 at 4:00 p.m.

This form must be submitted at the location specified within two (2) working hours of the advertised bid closing date and time; no later than the **Disclosure Deadline** stated above.

List below the Name, Address, Dollar Value, Construction Contractor Bond (CCB) and category of work of each subcontractor that will be furnishing labor or materials that are required to be disclosed. Enter "none" if there are no subcontractors that need to be disclosed. If needed attach additional sheets.

| Name/Address | Dollar Value/CCB# | Category of Work |
|--------------|-------------------|------------------|
|              |                   |                  |
|              |                   |                  |
|              |                   |                  |
|              |                   |                  |
|              |                   |                  |

The above listed first-tier subcontractor(s) are providing labor and/or materials with a Dollar Value equal to or greater than:

1. 5% of the Project Bid, but at least \$15,000; or
2. \$350,000, regardless of the percentage.

Failure to submit this form by the disclosure deadline will result in a bid submitted becoming non-responsive, and such bids shall not be considered for award. Bids that are submitted by bid closing, but for which the separate disclosure submittal has not been made by the specified deadline, are not responsive and shall not be considered for Contract award.

Form submitted by (Bidder Name): \_\_\_\_\_

Contact Name: \_\_\_\_\_ Phone: \_\_\_\_\_

## **Instructions for Non-Collusion Affidavit**

1. This Non-collusion Affidavit is material to any contract awarded pursuant to this bid. According to the Oregon Public Contracts and Purchasing Laws, a public contracting agency may reject any or all bids upon a finding of the agency that is in the public interest to do so. This agency finds that it is in the public interest to require the completion of this affidavit by potential contractors.

2. This Non-Collusion Affidavit must be executed by the member, officer or employee of the bidder who makes the final decision on prices and the amount quoted in the bid.

3. Bid rigging and other efforts to restrain competition, and the making of false sworn statements in connection with the submission of bids are unlawful and may be subject to criminal prosecution. The person who signs the Affidavit should examine it carefully before signing and assure himself or herself that each statement is true and accurate, making diligent inquiry, as necessary, of all other persons employed by or associated with the bidder with responsibilities for the preparation, approval or submission of the bid.

4. In the case of a bid submitted by a joint venture, each party to the venture must be identified in the bid documents, and an Affidavit must be submitted separately on behalf of each party.

5. The term "complementary bid" as used in the Affidavit has the meaning commonly associated with that term in the bidding process, and includes the knowing submission of bids higher than the bid of another firm, any intentionally high or noncompetitive bid, and any other form of bid submitted for the purpose of giving a false appearance of competition.

6. Failure to file an Affidavit in compliance with these instructions will result in disqualification of the bid.

**Non-Collusion Affidavit**

STATE OF \_\_\_\_\_ )  
 )  
County of \_\_\_\_\_ )

I state that I am \_\_\_\_\_ of \_\_\_\_\_ and that I am authorized to make this affidavit on behalf of my firm, and it owners, directors, and officers. I am the person responsible in my firm for the price(s) and the amount of this bid.

I state that:

(1) The price(s) and amount of this bid have been arrived at independently and without consultation, communication or agreement with any other contractor, bidder or potential bidder, except as disclosed on the attached appendix.

(2) That neither the price(s) nor the amount of this bid, and neither the approximate price(s) nor approximate amount of this bid, have been disclosed to any other firm or person who is a bidder or potential bidder, and they will not be disclosed before bid opening.

(3) No attempt has been made or will be made to induce any firm or person to refrain from bidding on this contract, or to submit a bid higher than this bid, or to submit any intentionally high or noncompetitive bid or other form of complementary bid.

(4) The bid of my firm is made in good faith and not pursuant to any agreement or discussion with, or inducement from, any firm or person to submit a complementary of other noncompetitive bid.

(5) \_\_\_\_\_, its affiliates, subsidiaries, officers, directors and employees are not currently under investigation by any governmental agency and have not in the last four years been convicted of or found liable for any act prohibited by State of Federal law in any jurisdiction, involving conspiracy or collusion with respect to bidding on any public contract, except as described on the attached appendix.

I state that \_\_\_\_\_ understands and acknowledges that the above representatives are material and important, and will be relied on by Clatsop County in awarding the contract(s) for which this bid is submitted. I understand and my firm understands that any misstatement in this affidavit is and shall be treated as fraudulent concealment from Clatsop County of the true facts relating to the submission of bids for this contract.

Sworn to and subscribed before me this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_

\_\_\_\_\_  
NOTARY PUBLIC FOR OREGON  
My Commission Expires:

**CLATSOP COUNTY  
STANDARD PUBLIC IMPROVEMENT CONTRACT  
Bid Bond**

We, \_\_\_\_\_, as "Principal,"  
(Name of Principal)

and \_\_\_\_\_, an \_\_\_\_\_ Corporation,  
(Name of Surety)

authorized to transact Surety business in Oregon, as "Surety," hereby jointly and severally bind ourselves, our respective heirs, executors, administrators, successors and assigns to pay unto Clatsop County ("Obligee") the sum of (\$ \_\_\_\_\_)

\_\_\_\_\_ dollars.

WHEREAS, the condition of the obligation of this bond is that Principal has submitted its proposal or bid to an agency of the Obligee in response to Obligee's procurement document (No. \_\_\_\_\_) for the project identified as:

\_\_\_\_\_ which proposal or bid is made a part of this bond by reference, and Principal is required to furnish bid security in an amount equal to ten (10%) percent of the total amount of the bid pursuant to the procurement document and ORS 279C.365(4) for competitive bidding or 279C.400(5) for competitive proposals.

NOW, THEREFORE, if the proposal or bid submitted by Principal is accepted, and if a contract pursuant to the proposal or bid is awarded to Principal, and if Principal enters into and executes such contract within the time specified in the procurement document and executes and delivers to Obligee its good and sufficient performance and payment bonds required by Obligee, as well as any required proof of insurance, within the time fixed by Obligee, then this obligation shall be void; otherwise, it shall remain in full force and effect.

IN WITNESS WHEREOF, we have caused this instrument to be executed and sealed by our duly authorized legal representatives this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

**PRINCIPAL:** \_\_\_\_\_

**SURETY:** \_\_\_\_\_

By \_\_\_\_\_  
Signature

BY ATTORNEY-IN-FACT:

\_\_\_\_\_  
Official Capacity

\_\_\_\_\_  
Name

Attest: \_\_\_\_\_  
Corporation Secretary

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Address

\_\_\_\_\_  
City State Zip

\_\_\_\_\_  
Phone Fax

## **Contract Forms**

CLATSOP COUNTY, OREGON  
1100 Olney Avenue  
Astoria, Oregon 97103  
*An Equal Opportunity Employer*

## Clatsop County Contract for Construction

This Contract is by and between **Clatsop County (County)** and \_\_\_\_\_ (**Contractor**). Whereas **County** has need of the services which **Contractor** has agreed to provide; **Now Therefore**, in consideration of the sum not to exceed \$ \_\_\_\_\_ to be paid to **Contractor** by **County**, **Contractor** agrees to perform between date of execution and \_\_\_\_\_, 2024, inclusive, the following specific construction services:

- A. Provide all materials, Labor, equipment and incidentals, and to perform all work shown on the drawings and described in the specifications for the project.
- B. Payment Terms: Payment will be made 30 days from receipt of invoice and approval of work by County.

1. **Written Notice.** Any notice of termination or other communication having a material effect on this Agreement shall be served by U.S. Mail on the signatories listed.

2. **Governing Law/Venue.** This Agreement shall be governed by the laws of the State of Oregon. Any action commenced in connection with this Agreement shall be in the District or Circuit Court of Clatsop County. The prevailing party shall be entitled to reasonable attorney fees and costs, including an appeal. All rights and remedies of **County** shall be cumulative and may be exercised successively or concurrently. The foregoing is without limitation to or waiver of any other rights or remedies of **County** according to law.

3. **Compliance.** **Contractor** shall comply with all applicable Federal, State and local laws, rules and regulations. All provisions of ORS 279C.505 through 530 (Construction Contracts) are incorporated herein. Specifically, Contractor shall:

- a. Make payment promptly, as due, to all persons supplying to the contractor labor or material for the performance of the work provided for in this contract. ORS 279C.505(1)(a)
- b. Pay all contributions or amounts due the Industrial Accident Fund from the contractor or subcontractor incurred in the performance of this contract. ORS 279C.505(1)(b).
- c. Not permit any lien or claim to be filed or prosecuted against the state or a county, school district, municipality, municipal corporation or subdivision thereof, on account of any labor or material furnished. ORS 279C.505(1)(c)

- d. Pay to the Department of Revenue all sums withheld from employees under ORS 316.617.
- e. Demonstrate that an employee drug-testing program is in place. ORS 279C.505(1)(d).
- f. Salvage or recycle construction and demolition debris if feasible and cost-effective. ORS 279C.510(1).
- g. Promptly pay, as due, all persons supplying labor and services furnished to the contractor or a subcontractor by any person in connection with this contract as the claim becomes due. If Contractor fails to pay any such claim, County may pay the claim and charge the payment against the funds due or to become due the Contractor by reason of the contract, pursuant to ORS 279C.515(1).
- h. If this contract is for a public improvement, if Contractor or first-tier subcontractor fails, neglects, or refuses to make payment to a person furnishing labor or materials in connection with the public contract for a public improvement within 30 days after receipt of payment from the County, the Contractor or first-tier subcontractor shall owe the person the amount due plus interest commencing at the end of the 10 day period that payment is due under ORS 279C.580 and ending upon final payment, unless payment is subject to a good faith dispute as defined in ORS 279C.580.
- i. Make payment to any person furnish labor or materials in connection with this contract within 30 days after receipt of payment from the contracting agency or a contractor, the contractor or first-tier subcontractor shall owe the person the amount due plus interest charges commencing at the end of the 10-day period that payment is due under ORS 279C.580(4) and ending upon final payment, unless payment is subject to a good faith dispute as defined in ORS 279C.580. The rate of interest charged to the contractor or first-tier subcontractor on the amount due shall equal three times the discount rate on 90-day commercial paper in effect at the Federal Reserve Bank in the Federal Reserve district that includes Oregon on the date that is 30 days after the date when payment was received from the contracting agency or from the contractor, but the rate of interest may not exceed 30 percent. The amount of interest may not be waived. ORS 279C.515(2).
- j. Make payment to any person furnishing labor or materials in connection with this contract, the person may file a complaint with the Construction Contractors Board, unless payment is subject to a good faith dispute as defined in ORS 279C.580. ORS 279C.515(3).

- k. No person may be employed for more than 10 hours in any one day, or 40 hours in any one week, except in cases of necessity, emergency or when the public policy absolutely requires it, and in such cases, except in cases of contracts for personal services as defined in ORS 279C.100. The employee shall be paid at least time and a half pay as provided for in ORS 279C.520.
- l. Pay promptly, as due, any payment to any person, co-partnership, association or corporation furnishing medical, surgical and hospital care services or the needed care and attention, incident to sickness or injury, to the employees of the contract, of all sums that the contractor agrees to pay for the services and all moneys and sums that the contractor collected or deducted from the wages of employees under any law, contract or agreement for the purpose of providing or paying for the services, pursuant to ORS 279C.530(1).
- m. If Contractor is a subject employer, Contractor will comply with ORS 656.017. ORS 279C.530(2).
- n. Comply with maximum hours of work, holidays and overtime per ORS 279C.540 and time limit on claims for overtime per ORS 279C.545.
- o. Comply with ORS 279C.550 thru 570 regarding withholding of retainage. The withholding of retainage by a contractor or subcontractor shall be in accordance with ORS 701.420 and 701.430.
- p. Comply with ORS 279C.570 regarding prompt payment, progress payments and rate of interest.
- q. Contractor shall include in each subcontract for property or services entered into by the contractor and a first-tier subcontractor, including a material supplier, for the purposed of performing a construction contract: a payment clause that obligates the contractor to pay the first-tier subcontractor for satisfactory performance under its subcontract within 10 days out of such amounts as are paid to the contractor by the contracting agency under the contract; and an interest penalty clause that obligates the contractor, if payment is not made within 30 days after receipt of payment from the contracting agency, to pay to the first-tier subcontractor an interest penalty on amounts due in the case of each payment not made in accordance with the payment clause included in the subcontract. These clauses must also be included in each of the contractor's subcontracts and in each of the first-tier subcontractor's subcontracts and each of the first-tier subcontractor's shall include these clauses in their subcontracts with each lower-tier subcontractor or supplier. ORS 279C.580.
- r. Comply with ORS 279C.605 regarding Notice of Claim.

- s. Comply with Prevailing Wage Rate regulations, ORS 279C.800 through ORS 279C.870.
- t. Pay contract and subcontract workers not less than the specified minimum hourly rate of wage in accordance with ORS 279C.838. ORS 279C.830(1)(c).
- u. A fee is required to be paid to the Commissioner of the Bureau of Labor and Industries as provided in ORS 279C.825. This fee shall be paid to the commissioner under the administrative rule of the commissioner. ORS 279C.830(2). This fee is paid by Clatsop county.
- v. Contractor is required to have a public works bond filed with the Construction Contractors Board before starting work on the project, unless exempt under ORS 279C.836(7) or (8), and will include in every subcontract a provision requiring the subcontractor to have a public works bond filed with the Construction Contractors Board before starting work on the project, unless exempt under ORS 279C.836(7) or (8). ORS 279C.830(3)(a)(b).
- w. Certify that all subcontractors performing work described in ORS 701.005(2) will be registered with the Construction Contractors Board or licensed by the State Landscape Contractors Board in accordance with ORS 701.035 to 701.055 before the subcontractors commence work under the contract.
- x. Environmental and natural resources regulations. ORS 279C.525.

4. **Judicial Rulings.** If any provision of this Agreement as applied to either party or to any circumstances shall be adjudged by a court to be void or unenforceable, the same shall in no way affect any other provision of this Agreement or the validity of enforceability of the Agreement.

5. **Independent Contractor.** **Contractor**, in carrying out the services to be provided under this Agreement, is acting as an "independent Contractor" and is not an employee of **County**, and as such accepts full responsibility for taxes or other obligations associated with payment for services under this Agreement. As an independent Contractor", **Contractor** will not receive any benefits normally accruing to County employees unless required by applicable law. Furthermore, **Contractor** is free to contract with other parties, on other matters, for the duration of this Agreement.

6. **Indemnification.** **Contractor** shall save harmless, indemnify, and defend **County** for any and all claims, damages, losses and expenses including but not limited to reasonable attorney's fees arising out of or resulting from **Contractor's** performance of or failure to perform the obligations of this Agreement, to the extent same are caused by the negligence or misconduct of **Contractor** or its employees or agents.

7. **Worker's Compensation.** **Contractor** shall comply with ORS 656.017 for all employees who work in the State of Oregon. If the **Contractor** hires employees, he or she shall provide **County** with certification of Worker's Compensation Insurance, with employer's liability in the minimum of \$100,000.

8. **Nondiscrimination.** No person shall be subjected to discrimination in receipt of the benefits of any services or activities made possible by or resulting from this Agreement on the grounds of sex, race, color, creed, marital status, age or national origin. Any violation of this provision shall be considered a material violation of this Agreement and shall be grounds for cancellation, termination or suspension in whole or in part by **County**.

9. **Termination of Agreement.** This Agreement may be terminated under the following conditions:

- a. By written mutual agreement of both parties. Termination under this provision may be immediate.
- b. Upon fifteen (15) calendar days written notice by either Party to the other of intent to terminate.
- c. Immediately on breach of the contract.

10. **Subcontracting/Nonassignment.** No portion of this Agreement may be contracted or assigned to any other individual, firm, or entity without the express and prior approval of **County**.

11. **Survival.** The terms, conditions, representations and all warranties contained in this Agreement shall survive the termination or expiration of this Agreement.

12. **Standard of Services and Warranty.** **Contractor** agrees to perform its services with that standard of care, skill and diligence normally provided by a professional individual in the performance of similar services. It is understood that the **Contractor** must perform the services based in part on information furnished by **County** and that **Contractor** shall be entitled to rely on such information. However, the **Contractor** is given notice that **County** will be relying on the accuracy, competence and completeness of **Contractor's** services in utilizing the results of such services. The **Contractor** warrants that the recommendations, guidance and performance of any person assigned under this Agreement shall be in accordance with professional standards and the requirements of this Agreement.

13. **Ownership and Use of Documents.** All documents, or other material submitted to the **County** by **Contractor** shall become the sole and exclusive property of **County**. All material prepared by **Contractor** under this Agreement may be subject to Oregon's Public Records Law.

14. **Tax Compliance Certification.** **Contractor** hereby certifies, under penalty of perjury, as provided in ORS 305.385(6), that to the best of **Contractor's** knowledge, **Contractor** is not in violation of any of the tax laws of this state or political subdivision of this state, including but not limited to ORS 305.380(4), 305.620 and ORS chapters 316, 317 and 318. **Contractor** represents that Contract will continue to comply with the tax laws of this state and any applicable

political subdivision of this state during the term of the public contract. If **Contractor** fails to comply with the tax laws of this state or a political subdivision of this during the term of this agreement, the **Contractor** shall be in default and County may terminate this agreement and pursue its remedies under the agreement and under applicable law **Contractor** hereby certifies, under penalty of perjury, as provided in ORS 305.385(6), that to the best of **Contractor's** knowledge, **Contractor** is not in violation of any of the tax laws described in ORS 305.380(4).

15. **Insurance.** **Contractor** shall purchase and maintain at **Contractor's** expense, Comprehensive General Liability, Automobile Liability, and Professional Liability insurance. This insurance is to provide separate coverage for each of the required types of insurance at a minimum of \$1,000,000 for property damage and minimum of \$1,000,000 per person for bodily injury and no less than \$1,000,000 for each occurrence, \$2,000,000 aggregate. In addition, all such insurance, with the exception of Professional Liability, shall name **County**, its Commissioners, employees and agents, as an Additional Insured. A copy of the policy or certificate of insurance acceptable to **County** shall be submitted to **County**. Some, or all, of the required insurance may be waived or modified if approved by **County's** counsel as follows:

\_\_\_\_\_ *(Approved by County Counsel)*

\_\_\_\_\_  
 (Contractor's Initials)\_\_\_\_\_

\_\_\_\_\_  
 (Comments)

All terms on the previous pages of this document are hereby made a part of this Agreement. This Agreement will not be effective until approved by the County Commission.

**FOR COUNTY:**

**FOR CONTRACTOR:**

\_\_\_\_\_  
 Signature Date

\_\_\_\_\_  
 Signature Date

\_\_\_\_\_  
 Title

\_\_\_\_\_  
 Title

Contractor Address:

## Performance Bond

Bond No. \_\_\_\_\_  
Solicitation \_\_\_\_\_  
Project Name \_\_\_\_\_

|                                     |                          |          |
|-------------------------------------|--------------------------|----------|
| _____ (Surety #1)                   | Bond Amount No. 1:       | \$ _____ |
| _____ (Surety #2)*                  | Bond Amount No. 2:*      | \$ _____ |
| <i>* If using multiple sureties</i> | Total Penal Sum of Bond: | \$ _____ |

We, \_\_\_\_\_ as Principal, and the above identified Surety(ies), authorized to transact surety business in Oregon, as Surety, hereby jointly and severally bind ourselves, our respective heirs, executors, administrators, successors and assigns firmly by these presents to pay +/-unto Clatsop County the sum of (Total Penal Sum of Bond)

(Provided, that we the Sureties bind ourselves in such sum "jointly and severally" as well as "severally" only for the purpose of allowing a joint action or actions against any or all of us, and for all other purposes each Surety binds itself, jointly and severally with the Principal, for the payment of such sum only as is set forth opposite the name of such Surety), and

WHEREAS, the Principal has entered into a contract with Clatsop County, the plans, specifications, terms and conditions of which are contained in the above-referenced Solicitation;

WHEREAS, the terms and conditions of the contract, together with applicable plans, standard specifications, special provisions, schedule of performance, and schedule of contract prices, are made a part of this Performance Bond by reference, whether or not attached to the contract (all hereafter called "Contract"); and

WHEREAS, the Principal has agreed to perform the Contract in accordance with the terms, conditions, requirements, plans and specifications, and all authorized modifications of the Contract which increase the amount of the work, the amount of the Contract, or constitute an authorized extension of the time for performance, notice of any such modifications hereby being waived by the Surety:

NOW, THEREFORE, THE CONDITION OF THIS BOND IS SUCH that if the Principal herein shall faithfully and truly observe and comply with the terms, conditions and provisions of the Contract, in all respects, and shall well and truly and fully do and perform all matters and things undertaken by Contractor to be performed under the Contract, upon the terms set forth therein, and within the time prescribed therein, or as extended as provided in the Contract, with or without notice to the Sureties, and shall indemnify and save harmless Clatsop County, its Commissioners and Clatsop County (name of institution and any other Owner agency), and members thereof, its officers, employees and agents, against any direct or indirect damages or claim of every kind and description that shall be suffered or claimed to be suffered in connection with or arising out of the performance of the Contract by the Principal or its subcontractors, and shall in all respects perform said contract according to law, then this obligation is to be void; otherwise, it shall remain in full force and effect.

Nonpayment of the bond premium will not invalidate this bond nor shall Clatsop County, or the above-referenced agency(ies), be obligated for the payment of any premiums.

This bond is given and received under authority of ORS Chapter 279C, the provisions of which hereby are incorporated into this bond and made a part hereof.

IN WITNESS WHEREOF, WE HAVE CAUSED THIS INSTRUMENT TO BE EXECUTED AND SEALED BY OUR DULY AUTHORIZED LEGAL REPRESENTATIVES.

Dated this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

PRINCIPAL: \_\_\_\_\_

By \_\_\_\_\_  
Signature

\_\_\_\_\_  
Official Capacity

Attest: \_\_\_\_\_  
Corporation Secretary

SURETY: \_\_\_\_\_  
*[Add signatures for each surety if using multiple bonds]*

BY ATTORNEY-IN-FACT:  
*[Power-of-Attorney must accompany each surety bond]*

\_\_\_\_\_  
Name

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Address

\_\_\_\_\_  
City State Zip

\_\_\_\_\_  
Phone Fax

**Clatsop County  
Standard Public Improvement Contract  
Payment Bond**

Bond No. \_\_\_\_\_  
Solicitation \_\_\_\_\_  
Project Name \_\_\_\_\_

|                                     |                          |          |
|-------------------------------------|--------------------------|----------|
| _____ (Surety #1)                   | Bond Amount No. 1:       | \$ _____ |
| _____ (Surety #2)*                  | Bond Amount No. 2:*      | \$ _____ |
| * <i>If using multiple sureties</i> | Total Penal Sum of Bond: | \$ _____ |

We, \_\_\_\_\_, as Principal, and the above identified Surety(ies), authorized to transact surety business in Oregon, as Surety, hereby jointly and severally bind ourselves, our respective heirs, executors, administrators, successors and assigns firmly by these presents to pay unto Clatsop County the sum of (Total Penal Sum of Bond)

(Provided, that we the Sureties bind ourselves in such sum "jointly and severally" as well as "severally" only for the purpose of allowing a joint action or actions against any or all of us, and for all other purposes each Surety binds itself, jointly and severally with the Principal, for the payment of such sum only as is set forth opposite the name of such Surety), and

WHEREAS, the Principal has entered into a contract with the Clatsop County, the plans, specifications, terms and conditions of which are contained in above-referenced Solicitation;

WHEREAS, the terms and conditions of the contract, together with applicable plans, standard specifications, special provisions, schedule of performance, and schedule of contract prices, are made a part of this Payment Bond by reference, whether or not attached to the contract (all hereafter called "Contract"); and

WHEREAS, the Principal has agreed to perform the Contract in accordance with the terms, conditions, requirements, plans and specifications, and schedule of contract prices which are set forth in the Contract and any attachments, and all authorized modifications of the Contract which increase the amount of the work, or the cost of the Contract, or constitute authorized extensions of time for performance of the Contract, notice of any such modifications hereby being waived by the Surety:

NOW, THEREFORE, THE CONDITION OF THIS BOND IS SUCH that if the Principal shall faithfully and truly observe and comply with the terms, conditions and provisions of the Contract, in all respects, and shall well and truly and fully do and perform all matters and things by it undertaken to be performed under said Contract and any duly authorized modifications that are made, upon the terms set forth therein, and within the time prescribed therein, or as extended therein as provided in the Contract, with or without notice to the Sureties, and shall indemnify and save harmless Clatsop County, its Commissioners, and Clatsop County (name of any other Owner agency), and members thereof, its officers, employees and agents, against any claim for direct or indirect damages of every kind and description that shall be suffered or claimed to be suffered in connection with or arising out of the performance of the Contract by the Contractor or

its subcontractors, and shall promptly pay all persons supplying labor, materials or both to the Principal or its subcontractors for prosecution of the work provided in the Contract; and shall promptly pay all contributions due the State Industrial Accident Fund and the State Unemployment Compensation Fund from the Principal or its subcontractors in connection with the performance of the Contract; and shall pay over to the Oregon Department of Revenue all sums required to be deducted and retained from the wages of employees of the Principal and its subcontractors pursuant to ORS 316.167, and shall permit no lien nor claim to be filed or prosecuted against the County on account of any labor or materials furnished; and shall do all things required of the Principal by the laws of this State, then this obligation shall be void; otherwise, it shall remain in full force and effect.

Nonpayment of the bond premium will not invalidate this bond nor shall Clatsop County, or the above-referenced agency(ies), be obligated for the payment of any premiums.

This bond is given and received under authority of ORS Chapter 279C, the provisions of which hereby are incorporated into this bond and made a part hereof.

IN WITNESS WHEREOF, WE HAVE CAUSED THIS INSTRUMENT TO BE EXECUTED AND SEALED BY OUR DULY AUTHORIZED LEGAL REPRESENTATIVES:

Dated this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_.

PRINCIPAL: \_\_\_\_\_

By \_\_\_\_\_  
Signature

\_\_\_\_\_  
Official Capacity

Attest: \_\_\_\_\_  
Corporation Secretary

SURETY: \_\_\_\_\_  
*[Add signatures for each if using multiple bonds]*

BY ATTORNEY-IN-FACT:  
*[Power-of-Attorney must accompany each bond]*

\_\_\_\_\_  
Name

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Address

\_\_\_\_\_  
City State Zip

\_\_\_\_\_  
Phone Fax

## **Special Provisions Part 00100**

OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION – 2024  
(STANDARD SPECIFICATIONS)  
OREGON DEPARTMENT OF TRANSPORTATION  
MODIFIED AS FOLLOWS

### **Section 00110 – Organization, Conventions, Abbreviations and Definitions**

Comply with Section 00110 of the Standard Specifications supplemented and/or modified as follows:

00110.00 Organization of Specifications - Add the following to the end of this subsection:

Certain Sections contain statements under payment subsections to the effect that payment will be made at the contract amounts for the following items. It is intended that payment will be made only for those items listed in the Bid Schedule for a particular project.

00110.20 Definitions -

Add: Commission - "Clatsop County Board of Commissioners"

Add: Commission Services Office - Clatsop County Public Works Department.

Add: County - Clatsop County, including employees of the County authorized to administer this contract.

Add: Department - Clatsop County Public Works Department.

Engineer - Delete definition and replace with "Clatsop County Engineer and its authorized representatives, acting either directly or indirectly as authorized agents of the County".

Add: Proposal Booklet -Bid forms section of the "Proposal and Special Provisions" document prepared by the County, which includes required information regarding proposals. A separate booklet is not prepared for proposals.

### **Section 00120 - Bidding Requirements and Procedures**

Comply with Section 00120 of the Standard Specifications supplemented and/or modified as follows:

00120.00 Prequalification of Bidders - Delete this subsection.

00120.01 General Bidding Requirements – Delete this subsection and replace with the following:

Bidders may obtain Bids by paper and/or through the internet (electronic) or both. Bids must be submitted with paper only.

00120.05 Request for Plans, Special Provisions, and Bid Booklets - Delete this subsection and add the following:

Upon request, the Clatsop County Public Works Department will provide prospective bidders with a viewing copy of the "Proposal and Special Provisions" and plans for the advertised project. Proposal booklets may be purchased at the department office. The Oregon Standard Specifications For Construction – 2024 (also a part of these specifications by reference) may be reviewed in the office of the Public Works Department and may be purchased at the Oregon State Department of Transportation Procurement Office in Salem.

00120.10 Bid Booklet - Delete this subsection.

00120.40 Preparation of Bids - Bids not in compliance with the requirements of this Subsection will be considered non-responsive.

00120.40(a) General - Delete this subsection and substitute the following:

Do not alter the bid documents except to complete the certification and statements as required and to insert the bid bond. When the bidder's authorized representative has signed the proposal, the bidder agrees to all certifications and statements contained within the contract documents. Entries in the proposal shall be in ink or typed. Signatures shall be in ink.

When the proposal is submitted, all documents in the proposal section, including a bid bond, shall be properly completed and bound together.

No electronic bids will be accepted.

00120.40(c)(2) – Delete this subsection

00120.40(f) - Delete this subsection and substitute ORS 279C.370.

00120.45 Submittal of Bids –

(a) Paper Bids – Delete and replace subsection with the following:

Paper bids may be submitted by mail, parcel delivery service to the offices and addresses, and at the times given in the Proposal Booklet. Submit paper bids in a sealed envelope provided by the bidder.

Paper bids submitted after the Bid closing time will not be opened and will be returned to the bidder.

(b) Electronic Bids – Delete this subsection

00120.50 Submitting Bids for More than One Contract – Delete this subsection.

00120.60 Revision or Withdrawal of Bids - Delete this subsection and substitute:

(a) Paper Bids

A bidder may withdraw a proposal after it has been delivered to the County, if the bidder (or his agent) makes the request in person to the County office designated to open the bids before the time set for opening.

(b) Electronic Bids – Delete this subsection

00120.70 Rejection of Nonresponsive Bids - Delete this subsection and substitute ORS 279C.395.

00120.90 Disqualification of Bidders - Delete "Not been prequalified as required by 00120.00."

## **Section 00130 - Award and Execution of Contract**

Comply with Section 00130 of the Standard Specifications supplemented and/or modified as follows:

00130.00 Consideration of Bids - In the third paragraph change 30 calendar days to 60 calendar days.

00130.10 Award of Contract – Delete the second sentence in the third paragraph and in the last paragraph change 30 calendar days to 60 calendar days.

00130.15 Right to Protest Award – Delete this subsection and substitute ORS 279C.460.

00130.40(a) Performance and Payment Bonds - Delete this subsection and substitute ORS 279C.380.

00130.40(c) Workers' Compensation - Delete this subsection and substitute the following:

Provide County with a Certificate of Insurance confirming coverage as required by 00170.61(a) and 00170.70(c).

00130.50(a) By the Bidder - In the first paragraph, delete " ODOT Procurement Office - Construction Contracts Unit" and substitute "the place designated for receipt of bids".

00130.50(b) By the Agency - Delete "7 Calendar Days" and replace with "21 Calendar Days" and delete "legal sufficiency approval from the Attorney General" and substitute "Clatsop County Board of Commissioners".

00130.70 Release of Bid Guaranties – Delete this subsection and substitute ORS 279C.385(3).

00130.90 Notice to Proceed - Delete this subsection.

### **Section 00150 - Control of Work**

Comply with Section 00150 of the Standard Specifications supplemented and/or modified as follows:

00150.15(c) Contractor Responsibilities - Add the following:

Preserve all survey monuments in their original position and condition as directed by the Engineer or as indicated on the plans.

00150.50(c) Contractor's Responsibilities - Add the following:

The Contractor shall comply with ORS 757.542 to 757.557, Utility Regulation.

00150.95 Final Acceptance - Add the following:

The Contractor shall be required to remedy or correct any defects in the completed construction that has been a part of this contract that may appear within two (2) years from the date of completion of the project. The Contractor's acceptance of the supplemented final payment shall in no way relieve him of the responsibility of faulty workmanship furnished by him. The County shall with a reasonable promptness give notice to the Contractor of defects noted. The Public Works Director shall decide all questions arising thereto subject to arbitration.

### **Section 00160 - Source of Materials**

Comply with Section 00160 of the Standard Specifications supplemented and/or modified as follows:

00160.40 Agency-furnished Sources – Delete this subsection and replace

No Agency-Furnished sources are being offered for use on this project. All material sources shall be provided by the Contractor.

## **Section 00165 - Quality of Materials**

Comply with Section 00165 of the Standard Specifications supplemented and/or modified as follows:

00165.03 Testing by Agency – Delete this subsection and add: Any check-tests or review tests to be performed by the Agency will be sent to a certified testing firm of their choice. The results of the tests will be made available to the contractor.

00165.40 Statistical Analysis - Delete this subsection.

00165.50 Statistical Acceptance Sampling and Testing - Delete this subsection.

00165.70(c) Contractor Request for Testing Assistance - Delete this subsection.

## **Section 00170 - Legal Relations and Responsibilities**

Comply with Section 00170 of the Standard Specifications supplemented and/or modified as follows:

00170.02 Permits, Licenses and Taxes - Add the following:

Contractor will be working as an independent contractor and will be responsible for any federal or state taxes applicable to services rendered by Contractor. Contractor will be responsible to provide for their employees and agents any benefits as a result of payments pursuant to this agreement for Federal Social Security, Unemployment Insurance or Public Employee's Retirement System Benefits.

00170.61(a) Workers' Compensation - Add the following:

The Contractor, its Subcontractors, if any, and all employers working under this contract are subject employers under the Oregon Worker's Compensation Law and shall comply with ORS 656.017, which requires them to provide worker's compensation coverage for all their subject workers.

The Contractor is a sole proprietor or a partner or is an insured employer for purposes of the Oregon Worker's Compensation Law (ORS Chapter 656) and is solely liable for any worker's compensation coverage under this Contract. Contractor agrees that Contractor and other persons retained by Contractor to perform work under this Contract shall be

insured according to ORS 656.407 prior to commencement of work under this contract, and that Contractor and such persons shall remain so insured during the term of this Contract. The Contractor shall also comply with the Unemployment Compensation Act of the State of Oregon. The Contractor shall provide the County, before commencing work, a certificate of insurance showing protection for its workers under the Workers' Compensation Act and registration with the State Unemployment Compensation Commission.

## **Section 00180 - Prosecution and Progress**

Comply with Section 00180 of the Standard Specifications supplemented and/or modified as follows:

00180.20 Subcontracting Limitations - There are no special items applicable to this contract.

00180.20(c) Rental of Operated Equipment - Delete this subsection.

00180.21 Subcontracting: (a) General - Delete the first 3 paragraphs and add the following:

Unless otherwise provided in the Contract, the Contractor shall not assign, sell, dispose of, or transfer rights, nor delegate duties under the contract, either in whole or in part, without the Agency's prior written consent. Unless otherwise agreed by the Agency in writing, such consent shall not relieve the Contractor of any obligations under the Contract. Any assignee or transferee shall be considered the agent of the Contractor and be bound to abide by all provisions of the Contract. If the Agency consents in writing to an assignment, sale, disposal or transfer of the Contractor's rights or delegation of Contractor's duties, the Contractor and its surety, if any, shall remain liable to the Agency for complete performance of the Contract as if no such assignment, sale, disposal, transfer or delegation has occurred unless the Agency otherwise agrees in writing.

00180.41 Project Work Schedules – Delete this subsection and add the following:

The Contractor shall submit a project schedule to the County.

The project schedules shall take into account the orderly, timely, and efficient prosecution of the work. The project schedules shall indicate the Contractor's plan of prosecution of the work in sufficient detail to enable both the Contractor and the County to plan, coordinate, appraise, document, and control their respective contract responsibilities.

When completed, the Contractor's approved project schedule shall represent the Contractor's own plans for the project. It shall be the Contractor's responsibility to ensure that all of the work is described in the project schedule and that it represents the sequence and time planned for the work. Review of this and subsequent schedules by the Engineer shall not relieve the Contractor of responsibility for timely and efficient execution of the

contract. Slack or float time as expressed in the project schedule does not exist for the exclusive use of either party to the contract and belongs to the project.

Project reporting - The Contractor shall review the project schedule and progress with the Engineer periodically. Upon the request of the Engineer or when the Contractor's approved project schedule no longer represents the contractor's own plans or expected time for the work, the project schedule shall be updated and a joint progress meeting shall be held between the Engineer and the Contractor. At this meeting, project events and changes will be reviewed for their effect on the Contractor's approved project schedule. After any necessary action has been agreed upon, the required changes will be made to the project schedule.

Project schedule costs - There will be no separate payment for developing, furnishing, monitoring, or updating the project schedules as payment therefore will be included in payment for one or another of the listed bid items.

The Contractor's failure to provide the schedules, schedule information, progress reports, or schedule updates at the times required herein shall cause progress payments under this contract to be suspended until the required data is provided to the Engineer unless the Engineer waives the provisions of this subsection in writing.

00180.42 Preconstruction Conference – Delete this subsection and add the following:

Prior to the commencement of work a preconstruction conference is required. The conference is to be between the Contractor and the County at a mutually agreed time. This requirement may be waived upon written request to the Engineer.

00180.50 Contract Time to Complete Work – The time allowed to complete the contract is stipulated in the Solicitation Documents.

00180.85 Failure to Complete on Time; Liquidated Damages – Add the following to this subsection:

The following liquidated damages apply for failure to complete the work on time:

The per diem amount of liquidated damages which will apply to this contract for failure to complete the work on time is \$500 per calendar day.

## **Section 00190 - Measurement of Pay Quantities**

Comply with Section 00190 of the Standard Specifications supplemented and/or modified as follows:

00190.20 (g) Agency-Provided Weigh Technician - Delete this subsection.

## **Section 00195 - Payment**

Comply with Section 00195 of the Standard Specifications, supplemented and/or modified as follows:

00195.10 Payment for changes in Material Cost - Delete this subsection.

00195.50 Progress Payments and Retained Amounts - Delete the last paragraph and add the following:

At the end of each month the contractor shall submit to the Engineer, an application for partial payment. The County shall make payments on account of the contract, as provided, within thirty (30) days after receipt of the Engineer's approval of the contractor's application for partial payment.

00195.50 (b) Retainage - Delete this subsection and add the following:

The Amount to be retained from the progress payments to protect the County's interests shall be 5 percent of the value of the work accomplished according to 00195.90, unless otherwise specified.

## **Section 00199 - Disagreements, Protests and Claims**

Comply with Section 00199 of the Standard Specifications, supplemented and/or modified as follows:

00199.20(b) Written Notice – Substitute "in writing" for "on form 734-2887"

00199.40(b) Step 1: Region Level Review - substitute Public Works Director for Region-level reviewer.

00199.40(c) Step 2: Agency Level Review - substitute Public Works Director for Contract Administration Engineer.

At the request of the Contractor, the Public Works Director shall, upon presentation to him, make prompt decisions in writing on all claims of the County or the Contractor and on all other matters relating to the execution and progress of the work or the interpretation of the Contract Documents.

00199.40(d) Step 3 Arbitration; Claims Review Board - Delete this subsection and substitute the following:

Demand for Arbitration: Any dispute or any decision of the Public Works Director which is subject to arbitration shall be submitted to arbitration upon the demand of either party to the dispute.

The Contractor shall not cause a delay of the work due to the pendency of arbitration proceedings, except with the written permission of the Public Works Director, and then only until the arbitrators have had an opportunity to determine whether or not the work shall continue until deciding upon the matters in dispute.

The demand for arbitration shall be delivered in writing to the Public Works Director and the adverse party, either personally or by registered mail to the last known address of each, within ten (10) days of the receipt of the Public Works Director decision, and in no case after final payment has been accepted except as otherwise expressly stipulated in the Contract Documents. If the Public Works Director fails to make a decision within a reasonable time, a demand for arbitration may be made as if his decision has been rendered against the demanding party.

Arbitrators: No one shall be nominated or act as an arbitrator who is in any way financially interested in this Contract or in the business affairs of the County, or the Contractor, or the Public Works Director, or otherwise connected with any of them. Each arbitrator shall be a person in general familiar with the work or the problem involved in the dispute submitted to arbitration.

Unless otherwise provided by controlling statutes, the parties may agree upon one arbitrator, otherwise there shall be three, one named in writing, by each party to this Contract, to the other party and the third chose by those two arbitrators, or if they should fail to select a third within fifteen (15) days, then he shall be appointed by the presiding officer, if a disinterested party, of the Bar association nearest to the location of the work. Should the party demanding arbitration fail to name an arbitrator within ten (10) days of his demand, his right to arbitration shall lapse. Should the other party fail to name an arbitrator within said ten (10) days, then said \*presiding officer shall appoint such arbitrator within ten (10) days, and upon his failure to do so then such arbitrator shall be appointed on the petition of the party demanding arbitration by a judge of the State Court in the District where such arbitration is to be held.

The said \*presiding officer shall have the power to declare the position of any arbitrator vacant by reason of refusal or inability to act, sickness, death, resignation, absence or neglect. Any vacancy shall be filled by the party making the original appointment, and unless so filled within five (5) days after the same has been declared, it shall be filled by the said presiding officer. If testimony has been taken before a vacancy has been filled, the matter must be re-heard unless a re-hearing is waived in the submission (the statement of the matters in dispute between the parties to be passed upon by the arbitrator) or by the written consent of the parties.

If there be one arbitrator his decision shall be binding; if three, the decision of any two shall be binding in respect to both matters submitted and to the procedure followed during the arbitration.

Such decision shall be a condition precedent to any right of legal action.

Arbitration Procedure: The arbitrators shall deliver a written notice to each of the parties and to the Public Works Director, either personally or by registered mail to the last known address of each of the time and place for the beginning of the hearing of the matters submitted to them. Each party may submit to the arbitrators such evidence and argument as he may desire and the arbitrators may consider pertinent. The arbitrators shall, however, be the judges of all matters of law and fact relating to both the subject matter of and the procedure during arbitration and shall not be bound by technical rules of law or procedure. They may hear evidence in whatever form they desire. The parties may be represented before them by such person as each select, subject to the disciplinary power of the arbitrators if such representation shall interfere with the orderly or speedy conduct of the proceedings.

Each party and the Public Works Director shall supply the arbitrators with such papers and information as they may demand, or with any witness whose movements are subject to their respective control, and upon refusal or neglect to comply with such demands the arbitrators may render their decision without the evidence which might have been elicited there from, and the absence of such evidence shall afford no ground for challenge of the award by the party refusing or neglecting to comply with such demand.

The submission to arbitration (the statement of the matters in dispute between the parties to be passed upon by the arbitrators) shall be in writing dully acknowledged before a notary. Unless waived in writing by both parties to the arbitration, the arbitrators, before hearing testimony, shall be sworn by an officer authorized by law to administer an oath, Faithfully and fairly to hear and examine the matters in controversy and to make a just award according to the best of their understanding.

The arbitrators, if they deem the case demands it, are authorized to award to the party whose contention is sustained such sums as they shall consider proper for the time, expense and trouble incident to the arbitration and if the arbitration was demanded without reasonable cause, damages for delay and other losses. The arbitrators shall fix their own compensation, unless otherwise provided by agreement, and shall assess the costs and charges of the arbitration upon either or both parties.

The award of the arbitrators shall be in writing and acknowledged like a deed to be recorded, and a duplicate shall be delivered personally or by registered mail, forthwith upon its rendition, to each of the parties to the controversy and to the Public Works Director. Judgment may be rendered upon the award by the Federal Court or the highest State Court having jurisdiction to render same.

The award of the arbitrators shall not be open to objection on account of the form of the proceedings or the award, unless otherwise provided by the controlling statutes. In the event of such statutes providing on any matter covered by this section otherwise than as hereinbefore specified, the method of procedure throughout and the legal effect of the award shall be wholly in accord with said statutes, it being the intention hereby to lay down a principle of action to be followed, leaving its local application to be adapted to the legal requirements of the jurisdiction having authority over the arbitration.

The Public Works Director shall not be deemed a party of the dispute. He is given the right to appear before the arbitrators to explain the basis of his decision and give such evidence as they may require.

CUSTOMER:

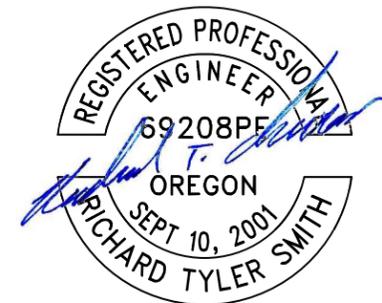
**PARAMOUNT IRONWORKS LLC**

PROJECT:

**Jewell Substation**

LOCATION:

**Seaside, OR**



EXPIRES: 06/2024

**REVIEWED**  
By Richard T Smith at 5:25 pm, Sep 25, 2023

JOB NUMBER:

**D23-466**

**FOR DESIGN ONLY**  
(GENERAL REVIEW BY OTHERS)



**GENERAL**

This drawing including information hereon, remains the property of Braemar Building Systems Inc. (BBS). It is provided solely for erecting the building described in the purchase order and shall not be modified, reproduced, or used for any other purpose without prior written approval of BBS.

The general contractor and/or erector is solely responsible for accurate, good quality workmanship in erecting this building in conformance with this drawing, details referenced in this drawing and industry standards pertaining to proper erection including proper use of temporary bracing. Braemar Building Systems Inc. is not responsible for errors, omissions or damages incurred in the erection of the components shown on this drawing, nor the inspection of erected components to determine same.

This certification and engineering seal applies only to products designed and supplied by Braemar Building Systems Inc. for the loading conditions designated on these drawings. Concrete foundations, steel components by others and erection supervision are not the responsibility of Braemar Building Systems Inc. or the certifying engineer.

**ANCHOR BOLTS**

Anchor bolt diameters are determined in accordance with AISC using A307 anchors. Anchor bolt length and load transfer to the foundation are to be determined by others.

Foundation must be level, square and smooth. Anchor bolts must be accurately placed as shown on the drawings.

All dimensions shown are to the building girt line unless noted otherwise.

Finished floor elevations and underside of base plate is 100'-0" unless noted.

**ERECTION**

The erector must provide safe working conditions and practices conforming to all safety regulations. All lifting devices are to be specifically designed to lift the various building components. Slings and spreader bars are to be used to prevent permanent deformation of all structural components.

Erection should start at a braced bay. Erect and temporarily support frames. Use temporary bracing as required to ensure stability of the frames. Install purlins and girts and permanent roof and wall bracing. Plumb columns and square frames in accordance with AISC code of standard practice. Install flange braces to purlins and girts prior to installing cladding.

Install roof and wall cladding, fasteners and sealants as specified in the erection drawings.

Do not use panels for walking platforms. Temporary loads on roof panels should be directly over purlins.

Ensure girts and purlins remain parallel.

Structural framing members are considered plumb, level and aligned when the variance does not exceed 1:500.

The fabrication and erection of the structural steel is governed by AISC code of standard practice latest edition.

**STRUCTURAL BOLTS**

Bolts in connections not subject to tension loads, or where loosening due to vibration or load fluctuations are not design considerations need only be snug tightened, which is defined as the tightness that exists when all plies in a joint are in firm contact.

All bolts tightening is as per RCSC – specifications for primary structural joints using ASTM A325 or A490 bolts. The method of pretensioning is turn-of-nut tightening as specified in RCSC. In turn-of-nut tightening, all bolts shall be brought to a "snug tight" condition ensuring that all plies are in firm contact with each other. "Snug tight" condition is attained by a few impacts of an impact wrench or the full effort of a person using a spud wrench. When all bolts are "snug tight", each bolt shall then be tightened additionally by the applicable nut rotation given in Table B. Tightening should progress systematically from the most rigid part of the connection to the free edges. During the operation, there shall be no rotation of the part not turned by the wrench. Nut rotation is relative to bolt regardless of whether the nut or bolt is being turned. Tolerance on rotation is 30° over or under.

**FIELD WELDING**

All field welding must be done by a certified welder.

**STRUCTURAL BOLTS (Continued)**

| TABLE B  |      |
|--|------|
| Bolt Length<br>(Measured from the underside of the head to the extreme end of the point) | Turn |
| up to and including 4 diameters  | 1/3  |
| over 4 diameters and not exceeding 8 diameters or 8 inches (200mm)                       | 1/2  |
| exceeding 8 diameters or 8 inches  | 2/3  |

Bolts tightened by turn-of-nut method should have the outer face of the nut match marked with the protruding bolt point before final tightening. Marking permits visual inspection that actual nut rotation has been achieved. Such marks can be made using a crayon or dab of paint after bolts have been brought up snug tight.

Inspection of the sides of bolts or nuts snug tightened using an impact wrench will appear slightly peened as a result of the tightening process. No further inspection is necessary for bolts in bearing type connections as performance is independent of initial pre-tensioning.

Torque is not a reliable means to pretension bolts. In cases of dispute as to installed bolt tension an arbitration method is provided in RCSC. This provides a means to calibrate a torque wrench with a direct tension indicator.

**MATERIAL SPECIFICATIONS**

Rolled structural sections:

CAN/CSA G40.20-13/G40.21-13 GRADE 50W and/or ASTM A992/A992M-04 GRADE 55.

HSS sections:

CAN/CSA G40.20-13/G40.21-13 GRADE 50W Class C and/or ASTM A500-03 GRADE 46.

Structural plate:

CAN/CSA G40.20-13/G40.21-13 GRADE 50W and/or ASTM A992/A992M-04 GRADE 55.

Girts and Purlins: ASTM A1011. GRADE 55

Bolts: All bolts larger than 1/2" diameter conform to ASTM A325.

All 1/2" diameter bolts conform to SAE Gr. 5 or equivalent.

Diagonal Bracing: Diagonal brace rod steel minimum yield stress is 36 ksi (248 MPa). Diagonal brace steel cable is extra high strength per ASTM A475.

Shop Primer: Shop primer is intended to withstand exposure to an essentially non-corrosive atmosphere for a short period and conforms to CISC/CPMA Standard 1-73a. Shop primer is not intended to be a long-term finish or to provide long-term protection.

**ROOF PLAN NOTES**

Unless noted, use 1/2" diameter bolts for purlin lap, purlin to frame, flange brace to frame, and flange brace to purlin connections.

Wind, flange and purlin bracing are an integral part of the roof structural system and should be properly installed prior to erection of wall and roof sheets. Removal or alteration of roof or wall bracing without prior authorization is prohibited.

**CLADDING / LINER NOTES**

Wall sheets are an integral part of the structural system. Removal or alteration without prior authorization is prohibited.

**ELEVATION NOTES**

Field slot girts (maximum slot 1 3/4" wide x 4" long) at center of web to allow diagonal bracing to pass through if required.

Holes required in girts or eave struts for framed openings, door or window jamb connections to be by erector.

Walk door, window and framed opening jambs to be field anchored to concrete with 1/2" diameter "Hilti Kwik-Bolts" or similar.

**ELEVATION NOTES (Continued)**

Base angle or channel to be fastened with Ramset or similar at 24" centers. Wind and flange bracing are an integral part of the roof structural system and should be properly installed prior to erection of wall and roof sheets. Removal or alteration of roof or wall bracing without prior authorization is prohibited.

Use 1/2" diameter bolts for purlin to frame, girt to frame and girt to clip connections unless noted otherwise.

**PARTITION WALL NOTES**

Field installation of partition wall to underside of any roof framing members must allow for vertical building deflection. Contact Braemar Building Systems Inc. for required clearances.

**MATERIAL STORAGE**

Galvanized, aluminized, and colored materials are subject to corrosion and discoloration if they are improperly stored. Short term job site storage of roof and wall covering may be tolerated, provided care is taken to keep these materials dry at all times. When panels are to be stored outdoors, they should be placed at an angle that is sufficient to provide good drainage. In addition, several inches of clearance must be provided between the lower end and the ground to allow ventilation. Long panels should be blocked in the center to prevent center sag resulting in water accumulation.

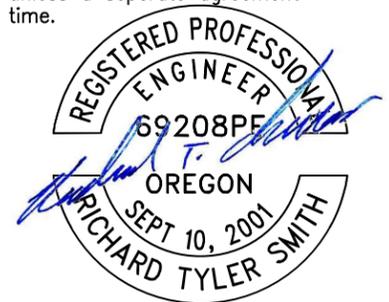
Braemar Building Systems Inc. will not be held responsible for materials which are improperly protected after delivery.

**MEMBER SECTION DESIGNATION**

Built-up sections can be used in lieu of standard mill sections on any project. Both light gauge components and built-up components have a standard designation that is used by Braemar Building Systems Inc. The following tables describe the designation of each component:

| BUILT-UP MEMBER - WAABCD  | EXAMPLE - W14563                |                   |
|---|---------------------------------|-------------------|
| AA - REFERS TO OVERALL DEPTH (IN)   | 14" deep member (overall depth) |                   |
| B - REFERS TO FLANGE WIDTH (IN)   | 5" wide flanges                 |                   |
| C - REFERS TO FLANGE THICKNESS IN 16TH (IN)                                   | 6/16" or 3/8" flange thickness  |                   |
| D - REFERS TO WEB THICKNESS IN 16TH (IN)                                      | 3/16" web thickness             |                   |
| LIGHT GAUGE COMPONENTS XxBBYAA (-DBL)   | 8x25Z16                         | 10x30C14          |
| X - refers to component depth in inches                                       | 8" deep                         | 10" deep          |
| Y - refers to component shape   | ZEE shape                       | CEE shape         |
| AA - refers to component thickness (gauge)                                    | 16 gauge                        | 14 gauge          |
| BB - refers to top and bottom nominal flange width                            | 2.5" flange width               | 3.0" flange width |
| DBL - refers to double member required (two sections are nested in the field) |                                 |                   |

**\*\*IMPORTANT NOTE\*\*** - Cost of equipment (rental or depreciation), small tools, supervision, overhead and profit are not subjected to claims. **SHIPMENT ARRIVAL TIME** - Every effort will be made to see that the carrier arrives at the jobsite on the requested day and at the requested hour. Manufacturer makes no warranty and accepts no responsibility for costs associated with a shipment not arriving at a requested time unless a separate agreement has been made in writing for a guaranteed arrival time.



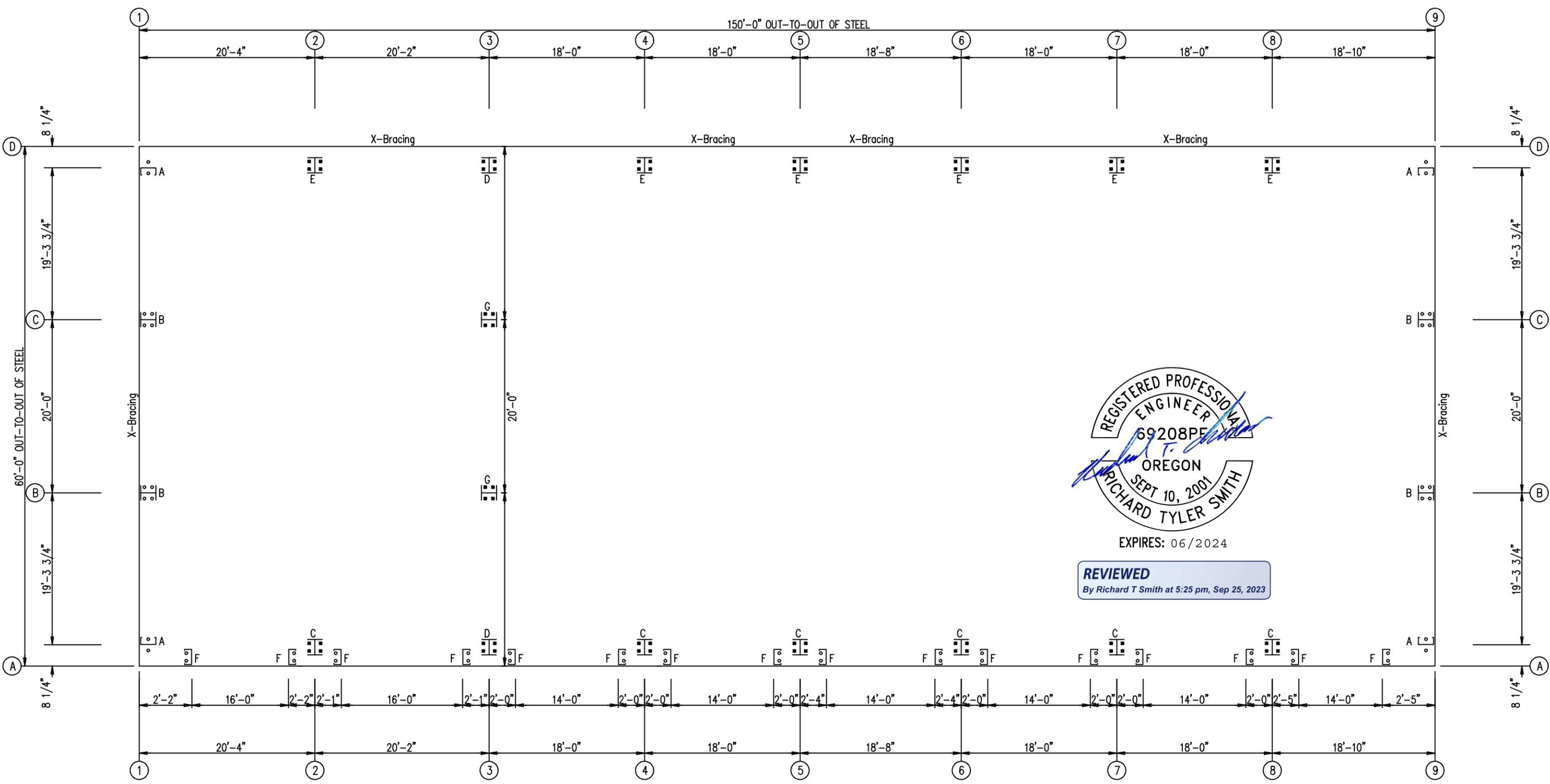
EXPIRES: 06/2024

**REVIEWED**

By Richard T Smith at 5:25 pm, Sep 25, 2023

|  |                     |         |   |             |                         |               |
|--|---------------------|---------|---|-------------|-------------------------|---------------|
|  | ISSUED FOR APPROVAL | 9/25/23 | <p>925 WEST KENYON AVENUE<br/>ENGLEWOOD, CO. 80110<br/>1-888-480-5552</p> <p>3149 HALDIMAND ROAD 9<br/>YORK, ONTARIO N0A 1R0<br/>1-866-382-5115</p> | CUSTOMER:   | PARAMOUNT IRONWORKS LLC |               |
|  |                     |         |   | PROJECT:    | Jewell Substation       |               |
|  |                     |         |   | LOCATION:   | Seaside, OR             |               |
|  |                     |         |   | DRAWN BY:   | DATE: 9/25/23           | JOB#: D23-466 |
|  |                     |         |   | CHECKED BY: | DATE:                   | SHEET: G1     |

○ Dia= 5/8"  
 ⊗ Dia= 3/4"



**REVIEWED**  
 By Richard T Smith at 5:25 pm, Sep 25, 2023

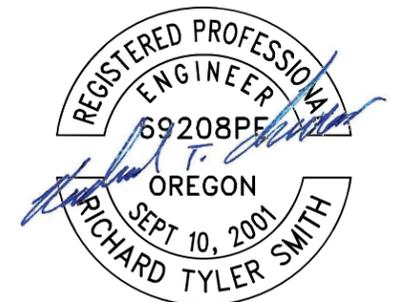
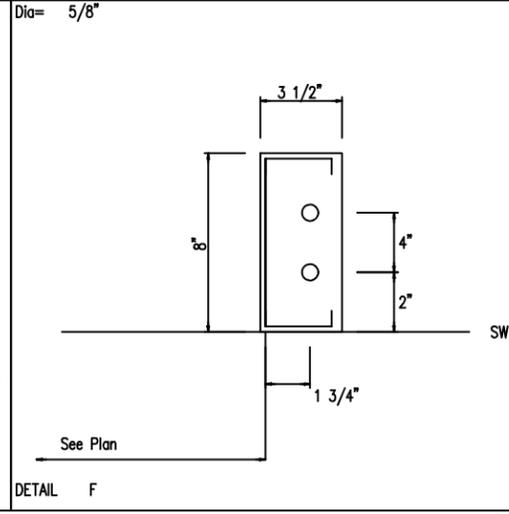
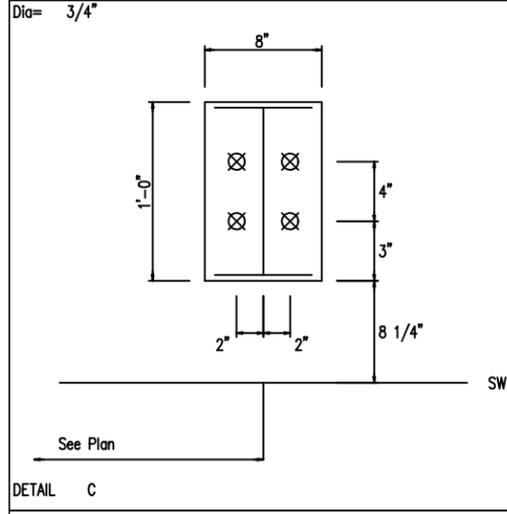
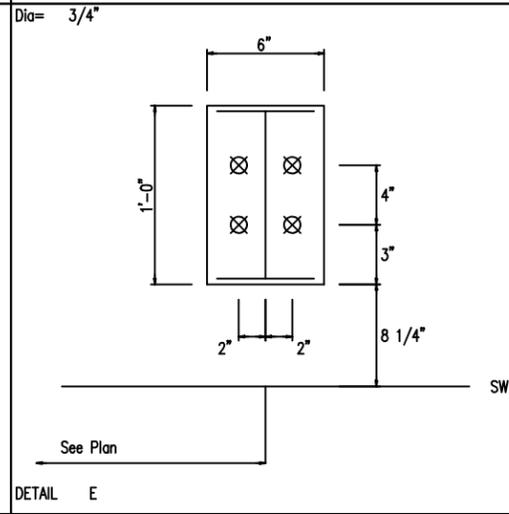
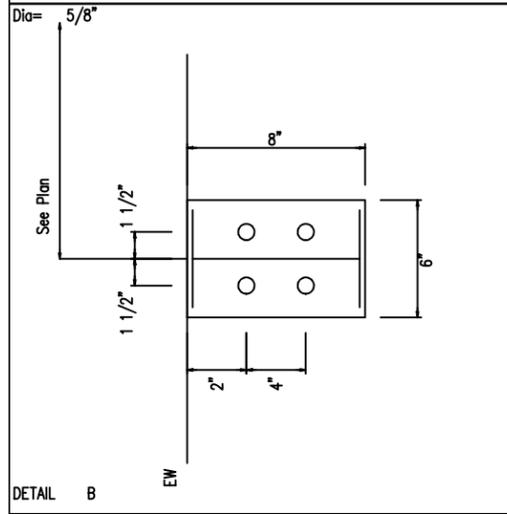
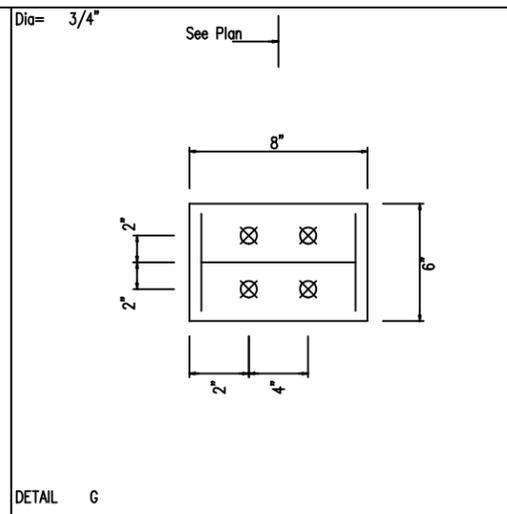
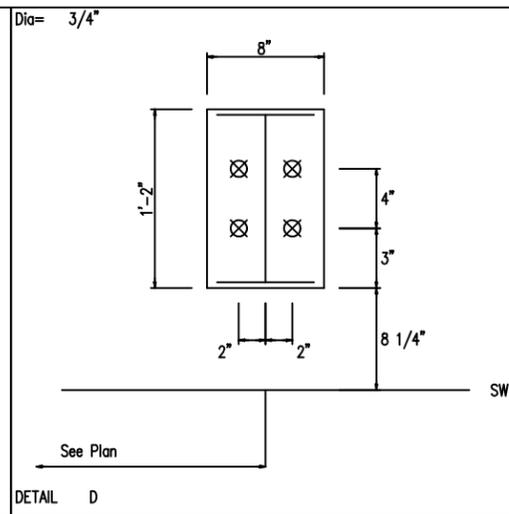
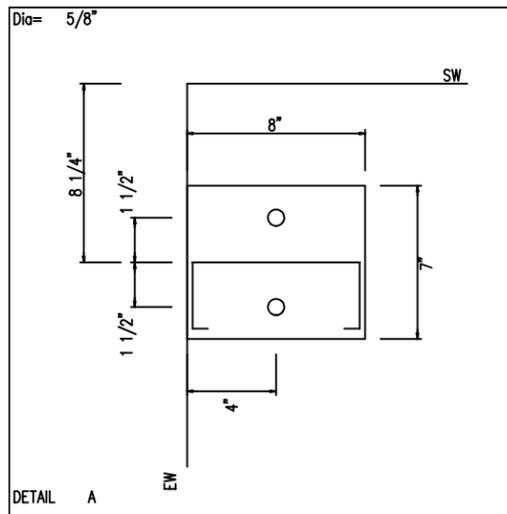
ANCHOR BOLT PLAN

|   |                             |
|---|-----------------------------|
| △ |                             |
| △ |                             |
| △ |                             |
| △ |                             |
| △ | ISSUED FOR APPROVAL 9/25/23 |



925 WEST KENYON AVENUE  
 ENGLEWOOD, CO. 80110  
 1-888-480-5552  
 3149 HALDIMAND ROAD 9  
 YORK, ONTARIO N0A 1R0  
 1-866-382-5115

|                                   |               |               |
|-----------------------------------|---------------|---------------|
| CUSTOMER: PARAMOUNT IRONWORKS LLC |               |               |
| PROJECT: Jewell Substation        |               |               |
| LOCATION: Seaside, OR             |               |               |
| DRAWN BY:                         | DATE: 9/25/23 | JOB#: D23-466 |
| CHECKED BY:                       | DATE:         | SHEET: A1     |



EXPIRES: 06/2024

**REVIEWED**

By Richard T Smith at 5:25 pm, Sep 25, 2023

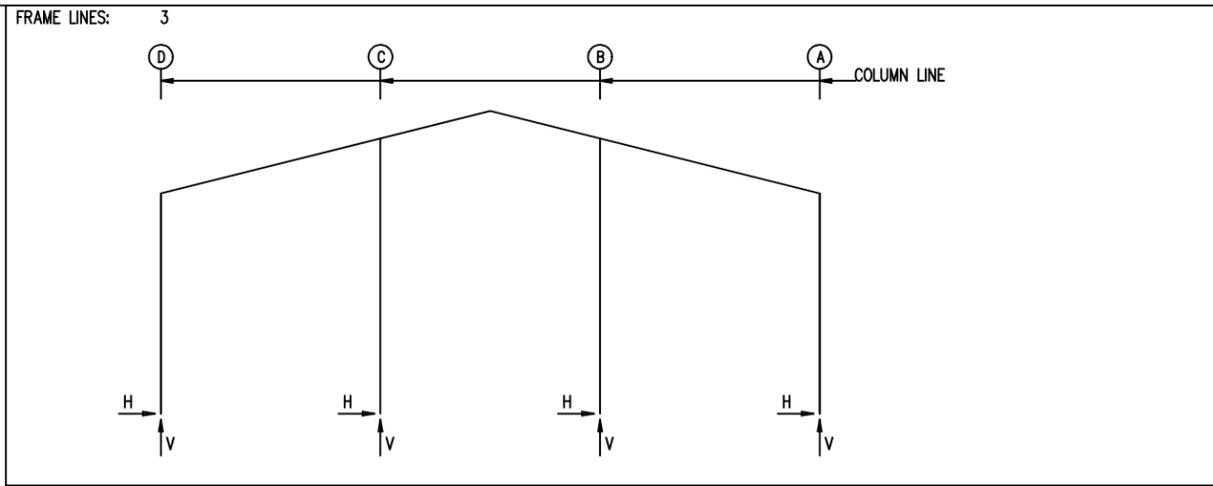
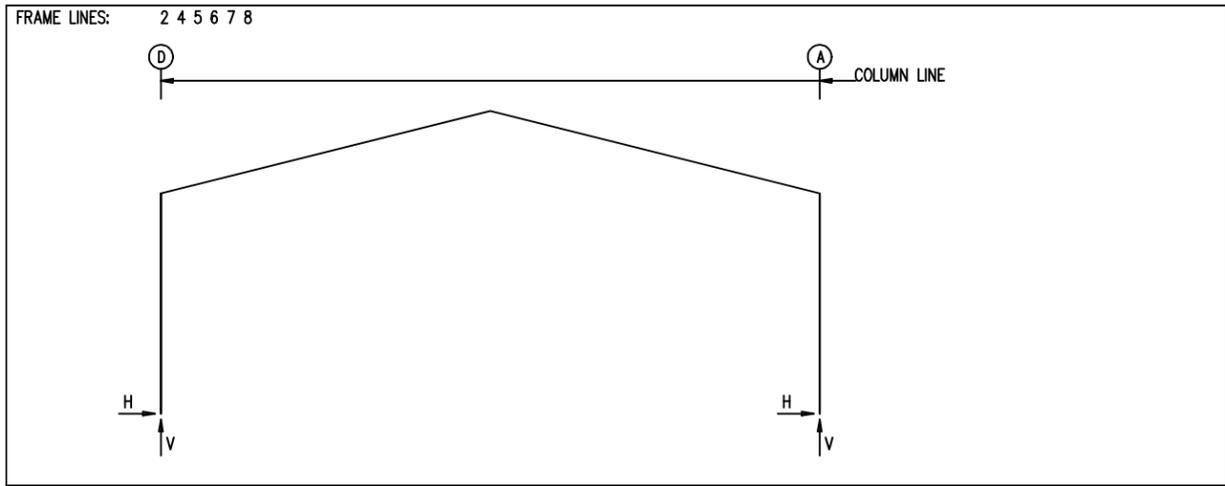
|   |                             |
|---|-----------------------------|
| △ |                             |
| △ |                             |
| △ |                             |
| △ |                             |
| △ |                             |
| △ | ISSUED FOR APPROVAL 9/25/23 |



925 WEST KENYON AVENUE  
 ENGLEWOOD, CO. 80110  
 1-888-480-5552

3149 HALDIMAND ROAD 9  
 YORK, ONTARIO N0A 1R0  
 1-866-382-5115

|                                   |               |               |
|-----------------------------------|---------------|---------------|
| CUSTOMER: PARAMOUNT IRONWORKS LLC |               |               |
| PROJECT: Jewell Substation        |               |               |
| LOCATION: Seaside, OR             |               |               |
| DRAWN BY:                         | DATE: 9/25/23 | JOB#: D23-466 |
| CHECKED BY:                       | DATE:         | SHEET: A2     |



**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  |
| 2          | D           | 1.1        | 2.9  | 0.9              | 1.9  | 5.5        | 12.2 | 7.4        | 16.2 | -6.8             | -10.3 | 0.9               | -6.5  |
| 2          | A           | -1.1       | 3.0  | -0.9             | 1.9  | -5.5       | 12.1 | -7.4       | 16.1 | -1.0             | -6.5  | 6.8               | -10.3 |

| 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 |
| 2          | D           | -7.0             | -6.2 | 0.7               | -2.4 | -2.5             | -12.6 | 0.8              | -8.7  | -1.8               | -1.2 | 1.8                 | 1.2  |
| 2          | A           | -0.7             | -2.4 | 7.0               | -6.2 | -0.8             | -6.1  | 2.5              | -10.0 | -1.8               | 1.2  | 1.8                 | -1.2 |

| Frame Line | Column Line | ---Seismic_Long--- |      | F1UNB_SL_L--- |      | F1UNB_SL_R--- |      |
|------------|-------------|--------------------|------|---------------|------|---------------|------|
|            |             | Horiz              | Vert | Horiz         | Vert | Horiz         | Vert |
| 2          | D           | -5.2               | -9.6 | 6.2           | 15.9 | 6.2           | 9.4  |
| 2          | A           | -5.2               | 3.3  | -6.2          | 9.3  | -6.2          | 15.8 |

| Frame Line | Column Line | ---Dead--- |      | ---Collateral--- |      | ---Live--- |      | ---Snow--- |      | ---Wind_Left1--- |      | ---Wind_Right1--- |      |
|------------|-------------|------------|------|------------------|------|------------|------|------------|------|------------------|------|-------------------|------|
|            |             | Horiz      | Vert | Horiz            | Vert | Horiz      | Vert | Horiz      | Vert | Horiz            | Vert | Horiz             | Vert |
| 3          | D           | 0.1        | 1.2  | 0.0              | 0.6  | 0.3        | 3.7  | 0.4        | 4.9  | -3.4             | -5.8 | 3.9               | -0.4 |
| 3          | A           | -0.1       | 1.2  | 0.0              | 0.6  | -0.3       | 3.7  | -0.4       | 4.9  | -3.9             | -0.4 | 3.4               | -5.8 |
| 3          | C           | 0.0        | 1.8  | 0.0              | 1.2  | 0.0        | 7.8  | 0.0        | 10.3 | 0.0              | -2.3 | 0.0               | -7.3 |
| 3          | B           | 0.0        | 1.8  | 0.0              | 1.2  | 0.0        | 7.8  | 0.0        | 10.3 | 0.0              | -7.3 | 0.0               | -2.3 |

| 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 |
| 3          | D           | -4.6             | -3.6 | 2.6               | 1.7  | -0.1             | -9.0 | 3.3              | -3.7 | -1.7               | -2.2 | 1.7                 | 2.2  |
| 3          | A           | -2.6             | 1.7  | 4.6               | -3.6 | -3.3             | -1.2 | 0.1              | -6.4 | -1.7               | 2.2  | 1.7                 | -2.2 |
| 3          | C           | 0.0              | -0.7 | 0.0               | -5.6 | 0.0              | -1.7 | 0.0              | -5.8 | 0.0                | 3.2  | 0.0                 | -3.2 |
| 3          | B           | 0.0              | -5.6 | 0.0               | -0.7 | 0.0              | -5.8 | 0.0              | -1.7 | 0.0                | -3.2 | 0.0                 | 3.2  |

| Frame Line | Column Line | ---Seismic_Long--- |       | F2UNB_SL_L--- |      | F2UNB_SL_R--- |      |
|------------|-------------|--------------------|-------|---------------|------|---------------|------|
|            |             | Horiz              | Vert  | Horiz         | Vert | Horiz         | Vert |
| 3          | D           | -5.2               | -13.1 | 0.2           | 4.5  | 0.2           | 1.4  |
| 3          | A           | -5.2               | 6.8   | -0.2          | 1.4  | -0.2          | 4.5  |
| 3          | C           | 0.0                | 9.8   | 0.0           | 13.4 | 0.0           | 4.5  |
| 3          | B           | 0.0                | -9.8  | 0.0           | 4.5  | 0.0           | 13.4 |

| Frame Line | Column Line | ---Dead--- |      | ---Collateral--- |      | ---Live--- |      | ---Snow--- |      | ---Wind_Left1--- |      | ---Wind_Right1--- |      |
|------------|-------------|------------|------|------------------|------|------------|------|------------|------|------------------|------|-------------------|------|
|            |             | Horiz      | Vert | Horiz            | Vert | Horiz      | Vert | Horiz      | Vert | Horiz            | Vert | Horiz             | Vert |
| 4*         | D           | 1.1        | 2.7  | 0.8              | 1.7  | 5.1        | 11.1 | 6.8        | 14.7 | -6.2             | -9.4 | 0.8               | -5.9 |
| 4*         | A           | -1.1       | 2.9  | -0.8             | 1.7  | -5.1       | 11.0 | -6.8       | 14.7 | -0.8             | -5.9 | 6.3               | -9.4 |

| 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 |
| 4*         | D           | -6.4             | -5.7 | 0.6               | -2.2 | -2.8             | -12.2 | 1.1              | -8.2 | -1.6               | -1.1 | 1.6                 | 1.1  |
| 4*         | A           | -0.6             | -2.2 | 6.4               | -2.2 | -1.2             | -5.3  | 2.8              | -9.3 | -1.7               | 1.1  | 1.7                 | -1.1 |

| Frame Line | Column Line | ---Seismic_Long--- |       | F3UNB_SL_L--- |      | F3UNB_SL_R--- |      |
|------------|-------------|--------------------|-------|---------------|------|---------------|------|
|            |             | Horiz              | Vert  | Horiz         | Vert | Horiz         | Vert |
| 4*         | D           | -5.8               | -10.8 | 5.7           | 14.4 | 5.8           | 8.5  |
| 4*         | A           | -5.9               | 3.7   | -5.7          | 8.5  | -5.8          | 14.4 |

4\* Frame lines: 4 5 6 7 8

**RIGID FRAME: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES**

| Frm Line | Col Line | ---Column_Reactions(k )--- |        |        |         |        |        | ---Bolt(in)--- |       | ---Base_Plate(in)--- |        |       | Grout (in) |
|----------|----------|----------------------------|--------|--------|---------|--------|--------|----------------|-------|----------------------|--------|-------|------------|
|          |          | Load Id                    | Hmax H | V Vmax | Load Id | Hmin H | V Vmin | Qty            | Dia   | Width                | Length | Thick |            |
| 2        | D        | 1                          | 9.4    | 21.0   | 3       | -3.5   | -2.0   | 4              | 0.750 | 6.000                | 12.00  | 0.375 | 0.0        |
|          |          | 5                          | -0.8   | -5.8   | 5       | -0.8   | -5.8   |                |       |                      |        |       |            |
| 2        | A        | 4                          | 3.5    | -1.9   | 1       | -9.4   | 21.1   | 4              | 0.750 | 8.000                | 12.00  | 0.375 | 0.0        |
|          |          | 1                          | -9.4   | 21.1   | 2       | 3.4    | -4.4   |                |       |                      |        |       |            |

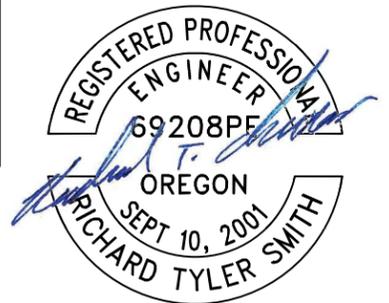
**RIGID FRAME: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES**

| Frm Line | Col Line | ---Column_Reactions(k )--- |        |        |         |        |        | ---Bolt(in)--- |       | ---Base_Plate(in)--- |        |       | Grout (in) |
|----------|----------|----------------------------|--------|--------|---------|--------|--------|----------------|-------|----------------------|--------|-------|------------|
|          |          | Load Id                    | Hmax H | V Vmax | Load Id | Hmin H | V Vmin | Qty            | Dia   | Width                | Length | Thick |            |
| 3        | D        | 8                          | 3.8    | 11.1   | 11      | -3.6   | -8.6   | 4              | 0.750 | 8.000                | 14.00  | 0.375 | 0.0        |
|          |          | 10                         | 3.1    | 11.6   | 11      | -3.6   | -8.6   |                |       |                      |        |       |            |
| 3        | A        | 12                         | 3.6    | -4.2   | 7       | -3.8   | 6.7    | 4              | 0.750 | 8.000                | 14.00  | 0.375 | 0.0        |
|          |          | 9                          | -3.1   | 8.3    | 12      | 3.6    | -4.2   |                |       |                      |        |       |            |
| 3        | C        | 12                         | 0.0    | -6.0   | 12      | 0.0    | -6.0   | 4              | 0.750 | 6.000                | 8.000  | 0.375 | 0.0        |
|          |          | 13                         | 0.0    | 16.3   | 12      | 0.0    | -6.0   |                |       |                      |        |       |            |
| 3        | B        | 11                         | 0.0    | -6.0   | 11      | 0.0    | -6.0   | 4              | 0.750 | 6.000                | 8.000  | 0.375 | 0.0        |
|          |          | 13                         | 0.0    | 16.3   | 11      | 0.0    | -6.0   |                |       |                      |        |       |            |

**RIGID FRAME: MAXIMUM REACTIONS, ANCHOR BOLTS, & BASE PLATES**

| Frm Line | Col Line | ---Column_Reactions(k )--- |        |        |         |        |        | ---Bolt(in)--- |       | ---Base_Plate(in)--- |        |       | Grout (in) |
|----------|----------|----------------------------|--------|--------|---------|--------|--------|----------------|-------|----------------------|--------|-------|------------|
|          |          | Load Id                    | Hmax H | V Vmax | Load Id | Hmin H | V Vmin | Qty            | Dia   | Width                | Length | Thick |            |
| 4*       | D        | 10                         | 9.0    | 18.8   | 11      | -3.5   | -6.2   | 4              | 0.750 | 6.000                | 12.00  | 0.375 | 0.0        |
|          |          | 1                          | 8.7    | 19.2   | 11      | -3.5   | -6.2   |                |       |                      |        |       |            |
| 4*       | A        | 12                         | 3.5    | -1.2   | 9       | -9.0   | 15.3   | 4              | 0.750 | 8.000                | 12.00  | 0.375 | 0.0        |
|          |          | 1                          | -8.7   | 19.3   | 2       | 3.1    | -3.9   |                |       |                      |        |       |            |

4\* Frame lines: 4 5 6 7 8



EXPIRES: 06/2024

**REVIEWED**  
By Richard T Smith at 5:25 pm, Sep 25, 2023

ISSUED FOR APPROVAL 9/25/23

925 WEST KENYON AVENUE  
ENGLEWOOD, CO. 80110  
1-888-480-5552

3149 HALDIMAND ROAD 9  
YORK, ONTARIO N0A 1R0  
1-866-382-5115

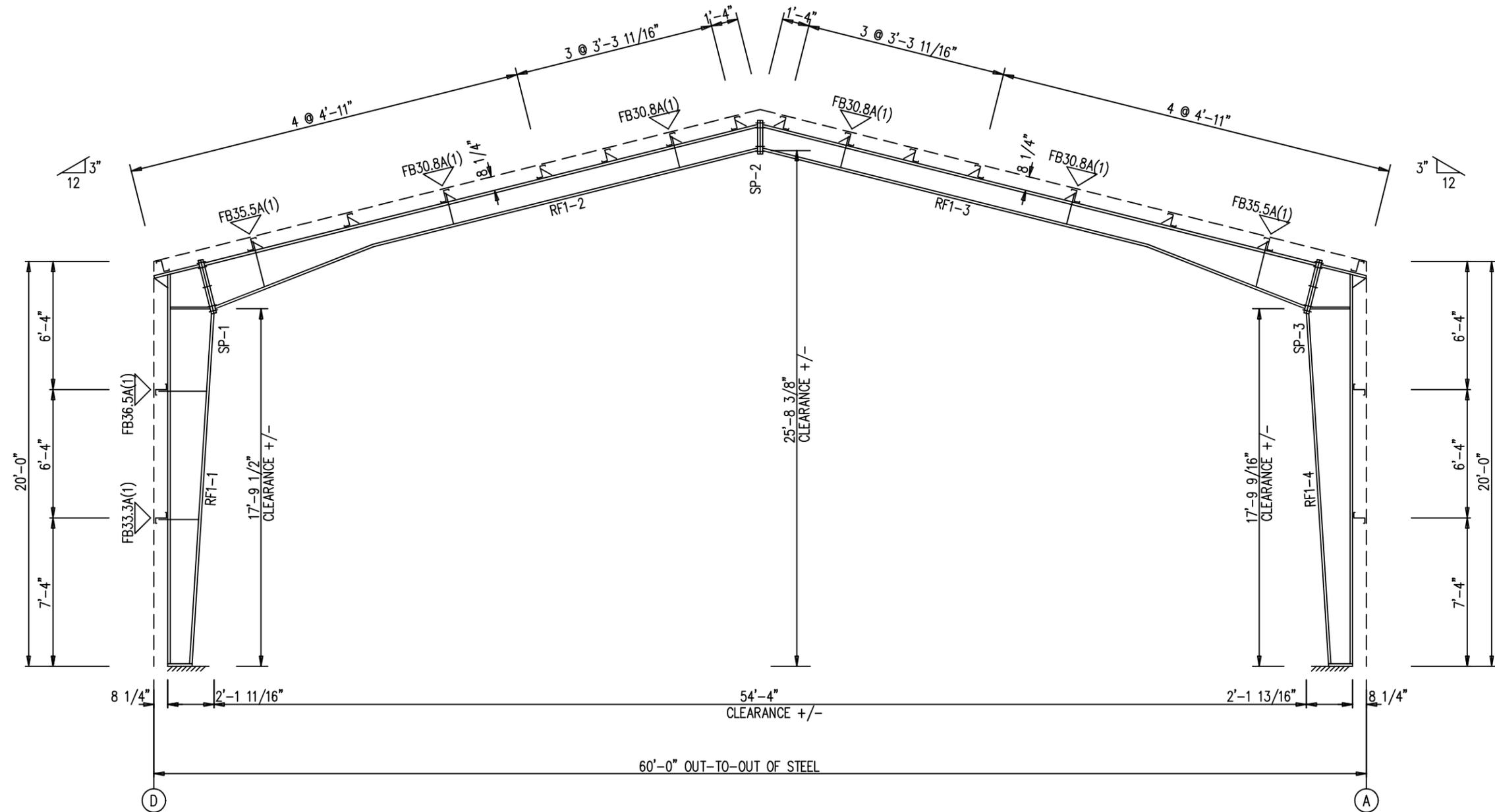
|                                   |               |
|-----------------------------------|---------------|
| CUSTOMER: PARAMOUNT IRONWORKS LLC |               |
| PROJECT: Jewell Substation        |               |
| LOCATION: Seaside, OR             |               |
| DRAWN BY:                         | DATE: 9/25/23 |
| CHECKED BY:                       | DATE:         |
| JOB#: D23-466                     | SHEET: A3     |



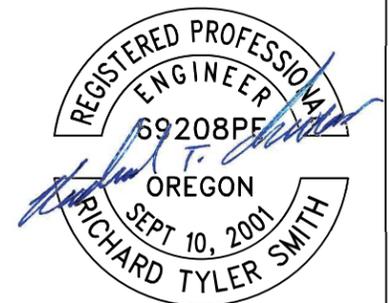
| SPLICE PLATE & BOLT TABLE |     |     |     |      |      |        |       |       |           |
|---------------------------|-----|-----|-----|------|------|--------|-------|-------|-----------|
| Mark                      | Qty |     | Int | Type | Dia  | Length | Width | Thick | Length    |
|                           | Top | Bot |     |      |      |        |       |       |           |
| SP-1                      | 4   | 4   | 2   | A325 | 3/4" | 2 1/2" | 6"    | 5/8"  | 2'-7 7/8" |
| SP-2                      | 4   | 4   | 0   | A325 | 3/4" | 2 1/4" | 6"    | 1/2"  | 1'-7 1/4" |
| SP-3                      | 4   | 4   | 2   | A325 | 3/4" | 2 1/2" | 8"    | 5/8"  | 2'-7 7/8" |

| MEMBER TABLE |           |       |           |        |                   |                   |                  |  |
|--------------|-----------|-------|-----------|--------|-------------------|-------------------|------------------|--|
| Mark         | Web Depth |       | Web Plate |        | Outside Flange    |                   | Inside Flange    |  |
|              | Start/End | Thick | Thick     | Length | W x Thk x Length  | W x Thk x Length  | W x Thk x Length |  |
| RF1-1        | 11.4/25.1 | 0.156 | 0.156     | 209.5  | 6 x 1/4" x 232.9  | 6 x 3/8" x 209.9  |                  |  |
|              | 25.1/18.1 | 0.250 | 0.250     | 28.0   | 6 x 5/16" x 27.3  |                   |                  |  |
| RF1-2        | 25.0/12.0 | 0.156 | 0.156     | 101.9  | 6 x 1/4" x 101.9  | 6 x 3/8" x 102.7  |                  |  |
|              | 12.0/12.0 | 0.156 | 0.156     | 240.0  | 6 x 5/16" x 240.0 | 6 x 5/16" x 236.9 |                  |  |
| RF1-3        | 12.0/12.0 | 0.156 | 0.156     | 240.0  | 6 x 5/16" x 240.0 | 6 x 5/16" x 236.9 |                  |  |
|              | 12.0/25.0 | 0.156 | 0.156     | 101.8  | 6 x 1/4" x 101.8  | 6 x 3/8" x 102.6  |                  |  |
| RF1-4        | 18.1/25.1 | 0.250 | 0.250     | 28.0   | 8 x 1/4" x 27.5   | 8 x 3/8" x 209.9  |                  |  |
|              | 25.1/11.3 | 0.156 | 0.156     | 209.5  | 8 x 3/8" x 232.9  |                   |                  |  |

FLANGE BRACES: BOTH SIDES (UNLESS NOTED)  
 FBxxA(1): xx=length(in)  
 A - L2X2X14G



RIGID FRAME ELEVATION: FRAME LINE 2



EXPIRES: 06/2024

**REVIEWED**  
 By Richard T Smith at 5:25 pm, Sep 25, 2023

|   |                             |
|---|-----------------------------|
| △ |                             |
| △ |                             |
| △ |                             |
| △ |                             |
| △ |                             |
| △ | ISSUED FOR APPROVAL 9/25/23 |



925 WEST KENYON AVENUE  
 ENGLEWOOD, CO 80110  
 1-888-480-5552  
 3149 HALDIMAND ROAD 9  
 YORK, ONTARIO N0A 1R0  
 1-866-382-5115

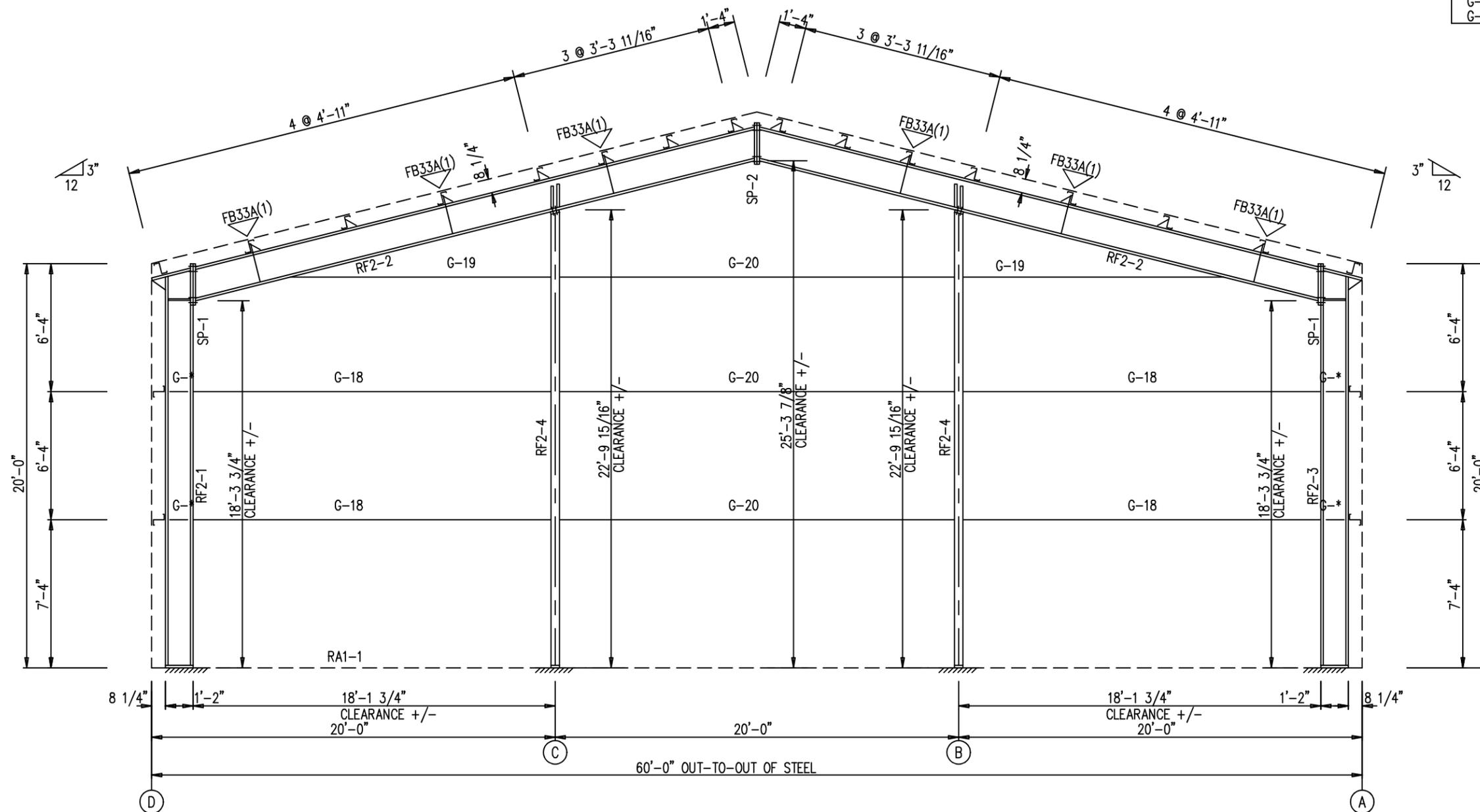
|                                   |               |
|-----------------------------------|---------------|
| CUSTOMER: PARAMOUNT IRONWORKS LLC |               |
| PROJECT: Jewell Substation        |               |
| LOCATION: Seaside, OR             |               |
| DRAWN BY:                         | DATE: 9/25/23 |
| CHECKED BY:                       | DATE:         |
| JOB#: D23-466                     | SHEET: E1     |

| SPLICE PLATE & BOLT TABLE |     |     |      |      |        |        |       |        |            | CAP PLATE BOLTS |      |      |        |        |
|---------------------------|-----|-----|------|------|--------|--------|-------|--------|------------|-----------------|------|------|--------|--------|
| Mark                      | Qty |     | Type | Dia  | Length | Width  | Thick | Length | Mark       | Qty             | Type | Dia  | Length |        |
|                           | Top | Bot |      |      |        |        |       |        |            |                 |      |      |        | Int    |
| SP-1                      | 4   | 4   | 0    | A325 | 3/4"   | 2 1/4" | 8"    | 1/2"   | 1'-11 3/4" | RF2-4           | 4    | A325 | 5/8"   | 1 3/4" |
| SP-2                      | 4   | 4   | 0    | A325 | 3/4"   | 2"     | 6"    | 3/8"   | 1'-11 3/4" |                 |      |      |        |        |

| Mark  | Web Depth |      | Web Plate |        | Outside Flange |       |         | Inside Flange |       |         |  |
|-------|-----------|------|-----------|--------|----------------|-------|---------|---------------|-------|---------|--|
|       | Start     | End  | Thick     | Length | W              | Thk   | Length  | W             | Thk   | Length  |  |
| RF2-1 | 13.4      | 13.4 | 0.134     | 215.7  | 8              | 5/16" | x 232.9 | 8             | 5/16" | x 215.7 |  |
| RF2-2 | 13.4      | 13.4 | 0.250     | 20.6   | 8              | 1/4"  | x 22.6  | 6             | 1/4"  | x 240.0 |  |
|       | 16.5      | 16.5 | 0.134     | 240.0  | 6              | 1/4"  | x 240.0 | 6             | 1/4"  | x 107.0 |  |
| RF2-3 | 16.5      | 16.5 | 0.134     | 111.2  | 6              | 1/4"  | x 107.0 | 8             | 1/4"  | x 22.6  |  |
|       | 13.4      | 13.4 | 0.185     | 20.6   | 8              | 1/4"  | x 22.6  | 8             | 5/16" | x 215.7 |  |
| RF2-4 | 13.4      | 13.4 | 0.134     | 215.7  | 8              | 5/16" | x 232.9 |               |       |         |  |
| RF2-4 | WBX10     |      |           |        |                |       |         |               |       |         |  |

▽ FLANGE BRACES: BOTH SIDES (UNLESS NOTED)  
 FBxxA(1): xx=length(in)  
 A - L2X2X14G

| MEMBER TABLE PARTITION 1 |         |              |
|--------------------------|---------|--------------|
| MARK                     | PART    | LENGTH       |
| G-18                     | 8X25Z16 | 17'-10 3/4"  |
| G-19                     | 8X25Z16 | 13'-8 15/16" |
| G-20                     | 8X25Z16 | 19'-8 1/16"  |



**REVIEWED**  
 By Richard T Smith at 5:25 pm, Sep 25, 2023

RIGID FRAME ELEVATION: FRAME LINE 3

|   |                             |
|---|-----------------------------|
| △ |                             |
| △ |                             |
| △ |                             |
| △ |                             |
| △ | ISSUED FOR APPROVAL 9/25/23 |



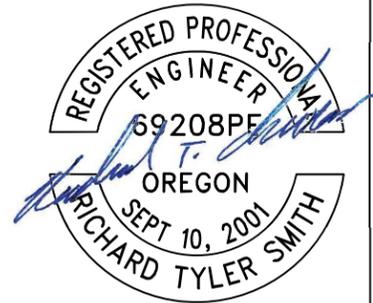
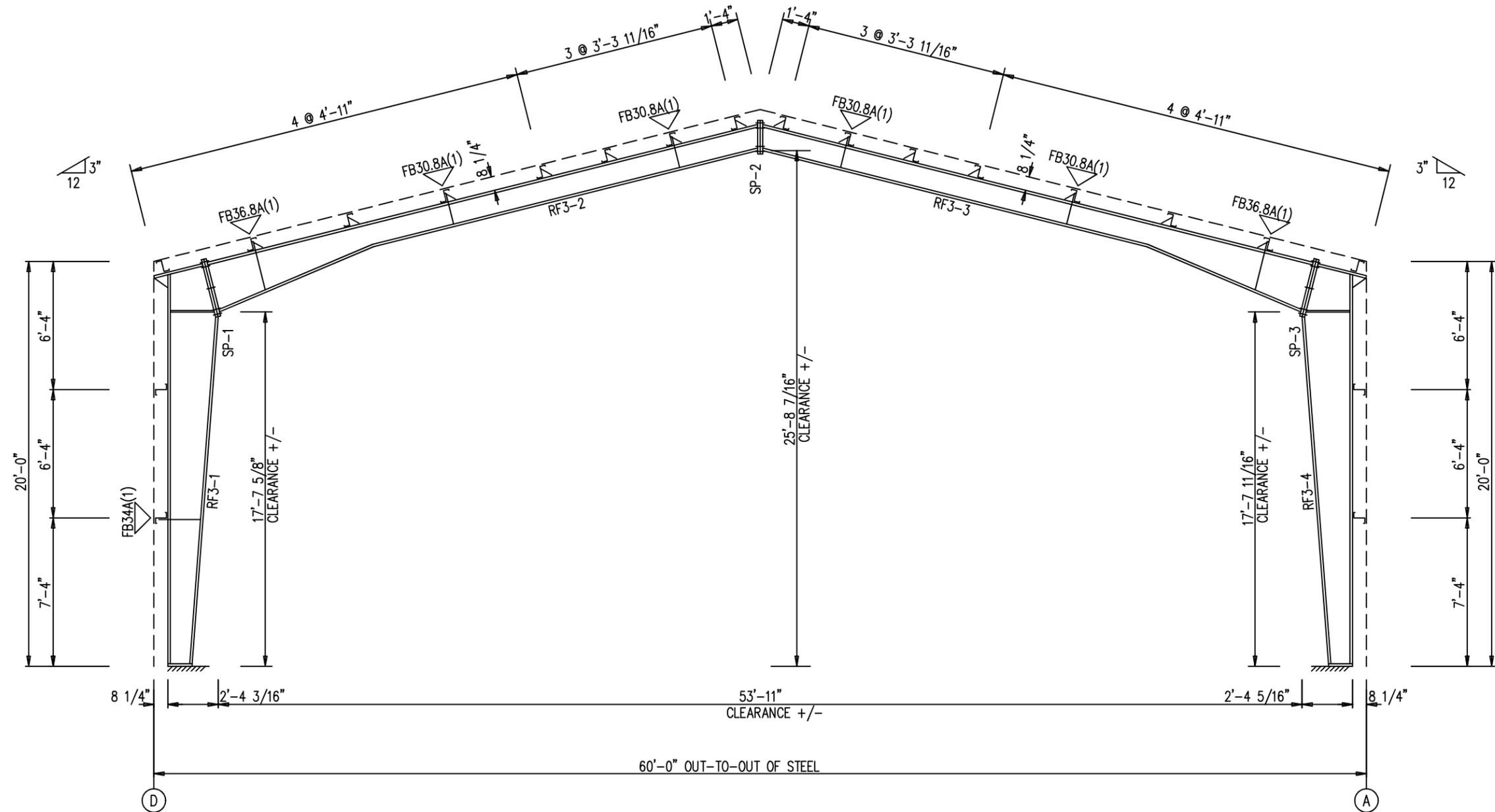
925 WEST KENYON AVENUE  
 ENGLEWOOD, CO. 80110  
 1-888-480-5552  
 3149 HALDIMAND ROAD 9  
 YORK, ONTARIO NOA 1R0  
 1-866-382-5115

|             |                         |         |               |
|-------------|-------------------------|---------|---------------|
| CUSTOMER:   | PARAMOUNT IRONWORKS LLC |         |               |
| PROJECT:    | Jewell Substation       |         |               |
| LOCATION:   | Seaside, OR             |         |               |
| DRAWN BY:   | DATE:                   | 9/25/23 | JOB#: D23-466 |
| CHECKED BY: | DATE:                   |         | SHEET: E1A    |

| SPLICE PLATE & BOLT TABLE |     |     |     |      |      |        |       |       |            |
|---------------------------|-----|-----|-----|------|------|--------|-------|-------|------------|
| Mark                      | Qty |     | Int | Type | Dia  | Length | Width | Thick | Length     |
|                           | Top | Bot |     |      |      |        |       |       |            |
| SP-1                      | 4   | 4   | 2   | A325 | 3/4" | 2 1/2" | 6"    | 5/8"  | 2'-10 3/8" |
| SP-2                      | 4   | 4   | 0   | A325 | 3/4" | 2 1/4" | 6"    | 1/2"  | 1'-7 1/4"  |
| SP-3                      | 4   | 4   | 2   | A325 | 3/4" | 2 1/2" | 8"    | 5/8"  | 2'-10 3/8" |

| MEMBER TABLE |           |       |           |       |                   |                   |               |  |
|--------------|-----------|-------|-----------|-------|-------------------|-------------------|---------------|--|
| Mark         | Web Depth |       | Web Plate |       | Outside Flange    |                   | Inside Flange |  |
|              | Start/End | Thick | Length    | Thick | W x Thk x Length  | W x Thk x Length  |               |  |
| RF3-1        | 11.4/27.6 | 0.156 | 207.6     | 0.156 | 6 x 1/4" x 232.9  | 6 x 3/8" x 208.2  |               |  |
|              | 27.6/20.0 | 0.250 | 30.4      | 0.156 | 6 x 1/4" x 29.3   |                   |               |  |
| RF3-2        | 27.5/12.0 | 0.156 | 100.0     | 0.156 | 6 x 1/4" x 100.0  | 6 x 3/8" x 101.1  |               |  |
|              | 12.0/12.0 | 0.156 | 240.0     | 0.156 | 6 x 5/16" x 240.0 | 6 x 5/16" x 236.9 |               |  |
| RF3-3        | 12.0/12.0 | 0.156 | 240.0     | 0.156 | 6 x 5/16" x 240.0 | 6 x 5/16" x 236.9 |               |  |
|              | 12.0/27.5 | 0.156 | 99.8      | 0.156 | 6 x 1/4" x 99.8   | 6 x 3/8" x 101.0  |               |  |
| RF3-4        | 20.0/27.6 | 0.185 | 30.4      | 0.185 | 8 x 1/4" x 29.4   | 8 x 3/8" x 208.2  |               |  |
|              | 27.6/11.3 | 0.156 | 207.6     | 0.156 | 8 x 3/8" x 232.9  |                   |               |  |

FLANGE BRACES: BOTH SIDES(UNLESS NOTED)  
 FBxxA(1): xx=length(in)  
 A - L2X2X14G



EXPIRES: 06/2024  
**REVIEWED**  
 By Richard T Smith at 5:25 pm, Sep 25, 2023

RIGID FRAME ELEVATION: FRAME LINE 4 5 6 7 8

|   |                             |
|---|-----------------------------|
| △ |                             |
| △ |                             |
| △ |                             |
| △ |                             |
| △ | ISSUED FOR APPROVAL 9/25/23 |

**BRAEMAR**  
 Building Systems

925 WEST KENYON AVENUE  
 ENGLEWOOD, CO. 80110  
 1-888-480-5552

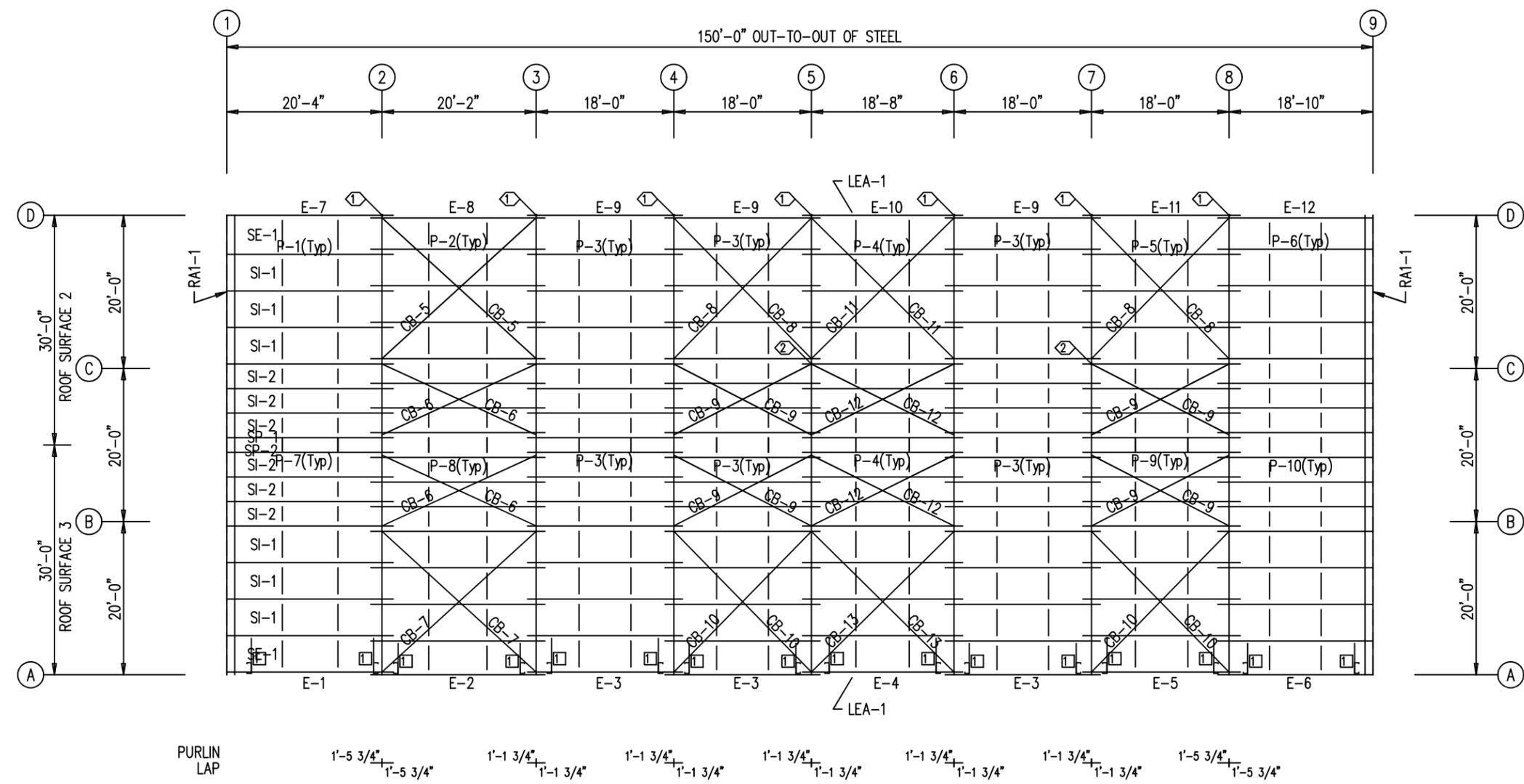
3149 HALDIMAND ROAD 9  
 YORK, ONTARIO NOA 1R0  
 1-866-382-5115

|                                   |               |
|-----------------------------------|---------------|
| CUSTOMER: PARAMOUNT IRONWORKS LLC |               |
| PROJECT: Jewell Substation        |               |
| LOCATION: Seaside, OR             |               |
| DRAWN BY:                         | DATE: 9/25/23 |
| CHECKED BY:                       | DATE:         |
| JOB#: D23-466                     | SHEET: E1B    |

| SPECIAL BOLTS |      |      |      |        |      |
|---------------|------|------|------|--------|------|
| ROOF PLAN     |      |      |      |        |      |
| ID            | QUAN | TYPE | DIA  | LENGTH | WASH |
| 1             | 4    | A325 | 1/2" | 1 1/4" | 0    |
| 2             | 2    | A325 | 1/2" | 1 1/4" | 2    |

| MEMBER TABLE |          |             |
|--------------|----------|-------------|
| ROOF PLAN    |          |             |
| MARK         | PART     | LENGTH      |
| P-1          | 8X25Z14  | 21'-9 1/2"  |
| P-2          | 8X25Z14  | 22'-9 1/2"  |
| P-3          | 8X25Z16  | 20'-3 1/2"  |
| P-4          | 8X25Z16  | 20'-11 1/2" |
| P-5          | 8X25Z16  | 20'-7 1/2"  |
| P-6          | 8X25Z14  | 20'-3 1/2"  |
| P-7          | 8X25Z14  | 21'-9 1/2"  |
| P-8          | 8X25Z14  | 22'-9 1/2"  |
| P-9          | 8X25Z16  | 20'-7 1/2"  |
| P-10         | 8X25Z14  | 20'-3 1/2"  |
| E-1          | 8X25Z16  | 21'-9 1/2"  |
| E-2          | 8X25Z16  | 22'-9 1/2"  |
| E-3          | 8X25Z16  | 20'-3 1/2"  |
| E-4          | 8X25Z16  | 20'-11 1/2" |
| E-5          | 8X25Z16  | 20'-7 1/2"  |
| E-6          | 8X25Z16  | 20'-3 1/2"  |
| E-7          | 8X25Z16  | 21'-9 1/2"  |
| E-8          | 8X25Z14  | 22'-9 1/2"  |
| E-9          | 8X25Z16  | 20'-3 1/2"  |
| E-10         | 8X25Z16  | 20'-11 1/2" |
| E-11         | 8X25Z16  | 20'-7 1/2"  |
| E-12         | 8X25Z16  | 20'-3 1/2"  |
| CB-5         | WC5      | 27'-6"      |
| CB-6         | WC4      | 22'-9"      |
| CB-7         | WC4      | 27'-6"      |
| CB-8         | WC6      | 25'-11"     |
| CB-9         | WC4      | 20'-9"      |
| CB-10        | WC4      | 25'-11"     |
| CB-11        | WC6      | 26'-5"      |
| CB-12        | WC4      | 21'-5"      |
| CB-13        | WC4      | 26'-5"      |
| SP-1         | L1X1X14G | 2'-4 1/16"  |
| SP-2         | L1X1X14G | 2'-5 3/16"  |
| SI-1         | L1X1X14G | 5'-1"       |
| SI-2         | L1X1X14G | 3'-5 11/16" |
| SE-1         | L1X1X14G | 4'-10 7/8"  |

| CONNECTION PLATES |           |
|-------------------|-----------|
| ROOF PLAN         |           |
| ID                | MARK/PART |
| 1                 | SA6       |



ROOF FRAMING PLAN



EXPIRES: 06/2024

**REVIEWED**  
By Richard T Smith at 5:25 pm, Sep 25, 2023

GENERAL NOTES:

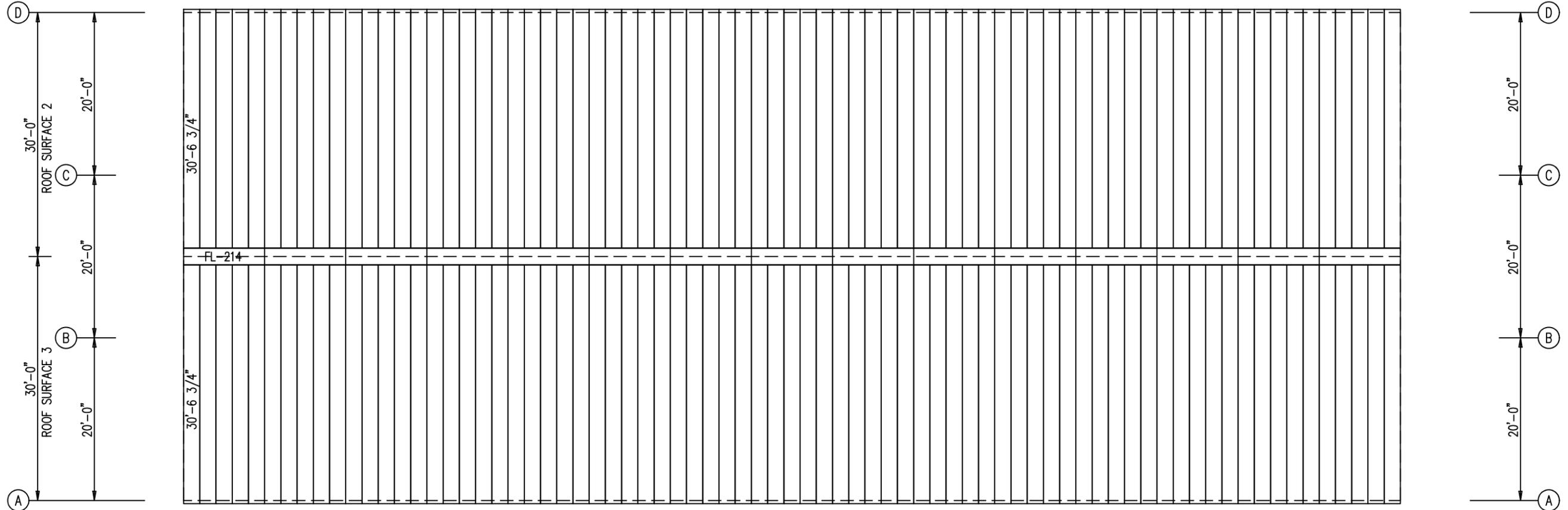
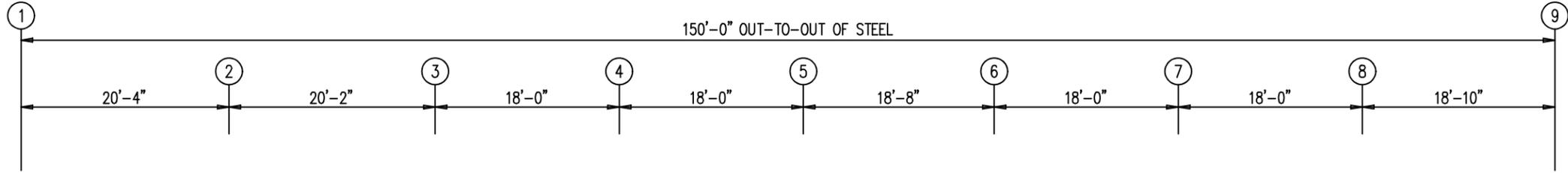
- INSTALL ALL PURLIN AND FLANGE BRACES (FB) AS SHOWN.
- ROOF PANEL PROVIDES STRUCTURAL STABILITY TO THE BUILDING.
- STRUT PURLINS, IF PROVIDED, MUST BE INSTALLED AND FASTENED TO ROOF SHEETING PER "PBR" PANEL ROOF DETAIL.
- DO NOT ADD ANY ADDITIONAL ROOF OPENINGS WITHOUT BUILDING MANUFACTURER APPROVAL OR PROFESSIONAL ENGINEER APPROVAL.
- DO NOT STACK SHEET BUNDLES ON ROOF. ONLY RAISE INDIVIDUAL SHEETS AS NEEDED.
- AFTER INSTALLATION, WIPE ALL PANELS CLEAN OF METAL SHAVINGS CAUSED BY DRILLING.

|   |                             |
|---|-----------------------------|
| △ |                             |
| △ |                             |
| △ |                             |
| △ |                             |
| △ |                             |
| △ | ISSUED FOR APPROVAL 9/25/23 |



925 WEST KENYON AVENUE  
ENGLEWOOD, CO. 80110  
1-888-480-5552  
  
3149 HALDIMAND ROAD 9  
YORK, ONTARIO N0A 1R0  
1-866-382-5115

|             |                         |         |         |
|-------------|-------------------------|---------|---------|
| CUSTOMER:   | PARAMOUNT IRONWORKS LLC |         |         |
| PROJECT:    | Jewell Substation       |         |         |
| LOCATION:   | Seaside, OR             |         |         |
| DRAWN BY:   | DATE:                   | 9/25/23 | JOB#:   |
| CHECKED BY: | DATE:                   |         | D23-466 |
|             |                         |         | SHEET:  |
|             |                         |         | E2      |



**ROOF SHEETING PLAN**  
 PANELS: 24 Ga. DOUBLE-LOK – Kynar Color

**GENERAL NOTES:**

1. INSTALL ALL PURLIN AND FLANGE BRACES (FB) AS SHOWN.
2. ROOF PANEL PROVIDES STRUCTURAL STABILITY TO THE BUILDING.
3. STRUT PURLINS, IF PROVIDED, MUST BE INSTALLED AND FASTENED TO ROOF SHEETING PER "PBR" PANEL ROOF DETAIL.
4. DO NOT ADD ANY ADDITIONAL ROOF OPENINGS WITHOUT BUILDING MANUFACTURER APPROVAL OR PROFESSIONAL ENGINEER APPROVAL.
5. DO NOT STACK SHEET BUNDLES ON ROOF. ONLY RAISE INDIVIDUAL SHEETS AS NEEDED.
6. AFTER INSTALLATION, WIPE ALL PANELS CLEAN OF METAL SHAVINGS CAUSED BY DRILLING.

EXPIRES: 06/2024  
**REVIEWED**  
 By Richard T Smith at 5:25 pm, Sep 25, 2023

|   |                             |
|---|-----------------------------|
| △ |                             |
| △ |                             |
| △ |                             |
| △ |                             |
| △ | ISSUED FOR APPROVAL 9/25/23 |

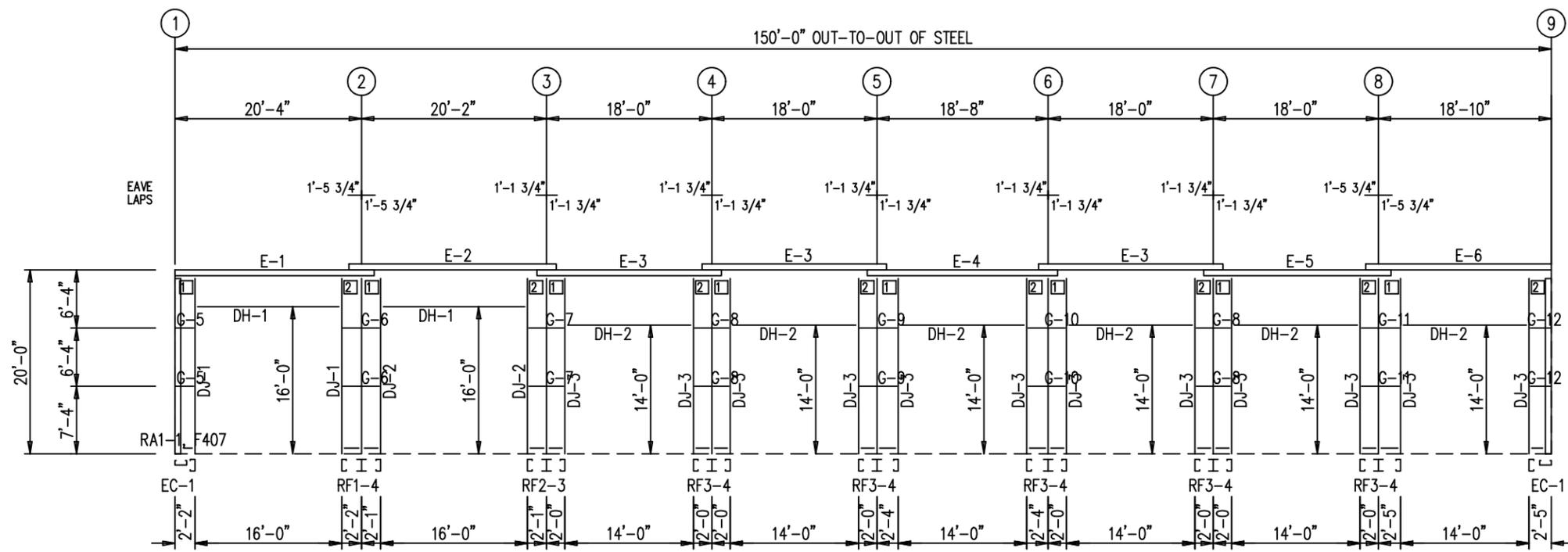


925 WEST KENYON AVENUE  
 ENGLEWOOD, CO. 80110  
 1-888-480-5552  
 3149 HALDIMAND ROAD 9  
 YORK, ONTARIO N0A 1R0  
 1-866-382-5115

|                                   |               |
|-----------------------------------|---------------|
| CUSTOMER: PARAMOUNT IRONWORKS LLC |               |
| PROJECT: Jewell Substation        |               |
| LOCATION: Seaside, OR             |               |
| DRAWN BY:                         | DATE: 9/25/23 |
| CHECKED BY:                       | DATE:         |
| JOB#: D23-466                     | SHEET: E2A    |

| MEMBER TABLE<br>FRAME LINE A |         |             |
|------------------------------|---------|-------------|
| MARK                         | PART    | LENGTH      |
| DJ-1                         | 8F35C14 | 19'-3 1/4"  |
| DJ-2                         | 8F25C14 | 19'-3 1/4"  |
| DJ-3                         | 8F25C14 | 19'-3 1/4"  |
| DH-1                         | 8F25C16 | 16'-0"      |
| DH-2                         | 8F25C16 | 14'-0"      |
| E-1                          | 8X25Z16 | 21'-9 1/2"  |
| E-2                          | 8X25Z16 | 22'-9 1/2"  |
| E-3                          | 8X25Z16 | 20'-3 1/2"  |
| E-4                          | 8X25Z16 | 20'-11 1/2" |
| E-5                          | 8X25Z16 | 20'-7 1/2"  |
| E-6                          | 8X25Z16 | 20'-3 1/2"  |
| G-5                          | 8X25Z16 | 1'-10"      |
| G-6                          | 8X25Z16 | 3'-8 1/2"   |
| G-7                          | 8X25Z16 | 3'-7 1/2"   |
| G-8                          | 8X25Z16 | 3'-6 1/2"   |
| G-9                          | 8X25Z16 | 3'-10 1/2"  |
| G-10                         | 8X25Z16 | 3'-10 1/2"  |
| G-11                         | 8X25Z16 | 3'-11 1/2"  |
| G-12                         | 8X25Z16 | 2'-2"       |

| CONNECTION PLATES<br>FRAME LINE A |           |
|-----------------------------------|-----------|
| ID                                | MARK/PART |
| 1                                 | e1        |
| 2                                 | e2        |



SIDEWALL FRAMING: FRAME LINE A



EXPIRES: 06/2024

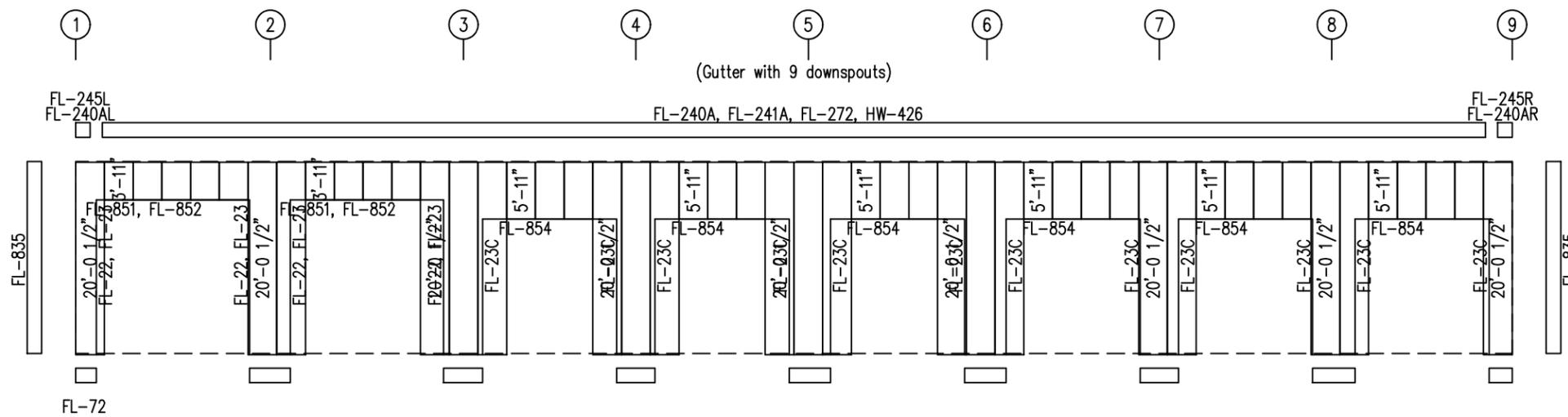
**REVIEWED**  
By Richard T Smith at 5:25 pm, Sep 25, 2023

|   |                             |
|---|-----------------------------|
| △ |                             |
| △ |                             |
| △ |                             |
| △ |                             |
| △ |                             |
| △ | ISSUED FOR APPROVAL 9/25/23 |



925 WEST KENYON AVENUE  
ENGLEWOOD, CO. 80110  
1-888-480-5552  
  
3149 HALDIMAND ROAD 9  
YORK, ONTARIO NOA 1R0  
1-866-382-5115

|             |                         |         |        |         |
|-------------|-------------------------|---------|--------|---------|
| CUSTOMER:   | PARAMOUNT IRONWORKS LLC |         |        |         |
| PROJECT:    | Jewell Substation       |         |        |         |
| LOCATION:   | Seaside, OR             |         |        |         |
| DRAWN BY:   | DATE:                   | 9/25/23 | JOB#:  | D23-466 |
| CHECKED BY: | DATE:                   |         | SHEET: | E3      |



SIDEWALL SHEETING & TRIM: FRAME LINE A  
 PANELS: 26 Ga. PR - Kynar Color



EXPIRES: 06/2024

**REVIEWED**  
 By Richard T Smith at 5:25 pm, Sep 25, 2023

|   |                             |
|---|-----------------------------|
| △ |                             |
| △ |                             |
| △ |                             |
| △ |                             |
| △ | ISSUED FOR APPROVAL 9/25/23 |

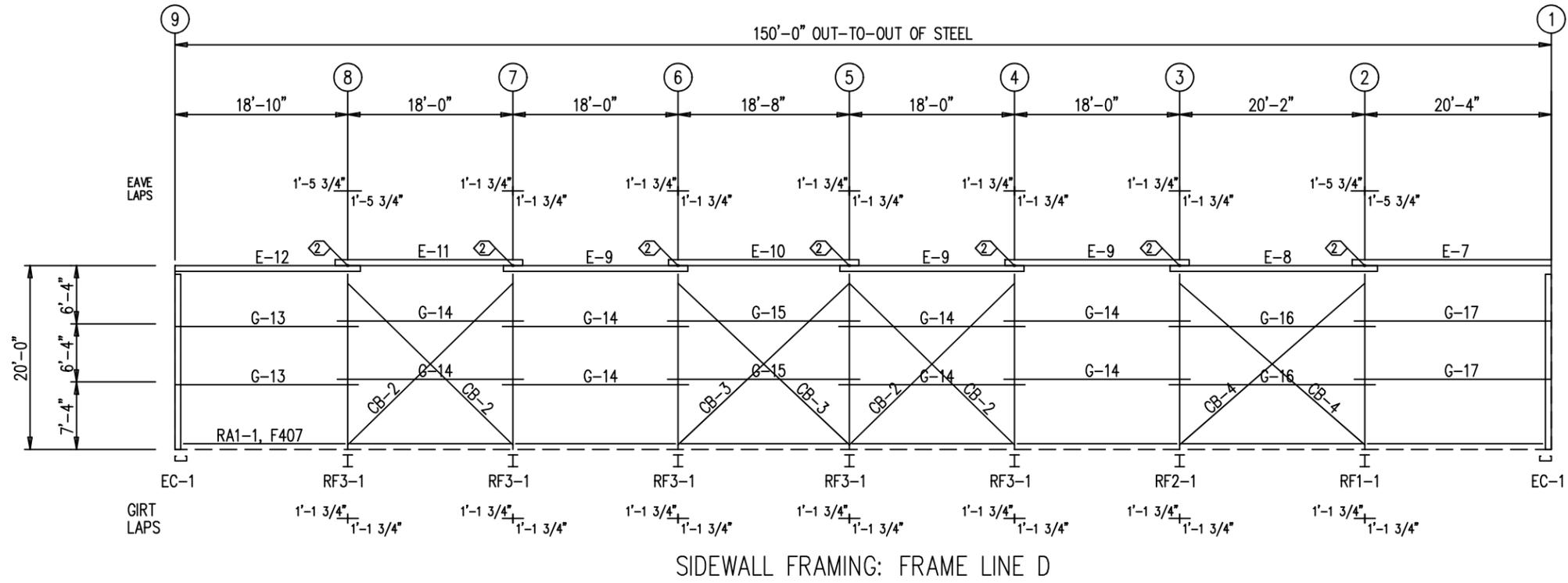


925 WEST KENYON AVENUE  
 ENGLEWOOD, CO. 80110  
 1-888-480-5552  
 3149 HALDIMAND ROAD 9  
 YORK, ONTARIO N0A 1R0  
 1-866-382-5115

|                                   |               |               |
|-----------------------------------|---------------|---------------|
| CUSTOMER: PARAMOUNT IRONWORKS LLC |               |               |
| PROJECT: Jewell Substation        |               |               |
| LOCATION: Seaside, OR             |               |               |
| DRAWN BY:                         | DATE: 9/25/23 | JOB#: D23-466 |
| CHECKED BY:                       | DATE:         | SHEET: E3A    |

| SPECIAL BOLTS |      |      |      |        |      |
|---------------|------|------|------|--------|------|
| ○ ID          | QUAN | TYPE | DIA  | LENGTH | WASH |
| 2             | 4    | A325 | 1/2" | 1 1/4" | 0    |

| MEMBER TABLE |         |             |
|--------------|---------|-------------|
| FRAME LINE D |         |             |
| MARK         | PART    | LENGTH      |
| E-7          | 8X25Z16 | 21'-9 1/2"  |
| E-8          | 8X25Z14 | 22'-9 1/2"  |
| E-9          | 8X25Z16 | 20'-3 1/2"  |
| E-10         | 8X25Z16 | 20'-11 1/2" |
| E-11         | 8X25Z16 | 20'-7 1/2"  |
| E-12         | 8X25Z16 | 20'-3 1/2"  |
| G-13         | 8X25Z16 | 19'-11 1/2" |
| G-14         | 8X25Z16 | 20'-3 1/2"  |
| G-15         | 8X25Z16 | 20'-11 1/2" |
| G-16         | 8X25Z16 | 22'-5 1/2"  |
| G-17         | 8X25Z16 | 21'-5 1/2"  |
| CB-2         | WC8     | 26'-5"      |
| CB-3         | WC8     | 26'-10"     |
| CB-4         | WC8     | 27'-11"     |



SIDEWALL FRAMING: FRAME LINE D



EXPIRES: 06/2024

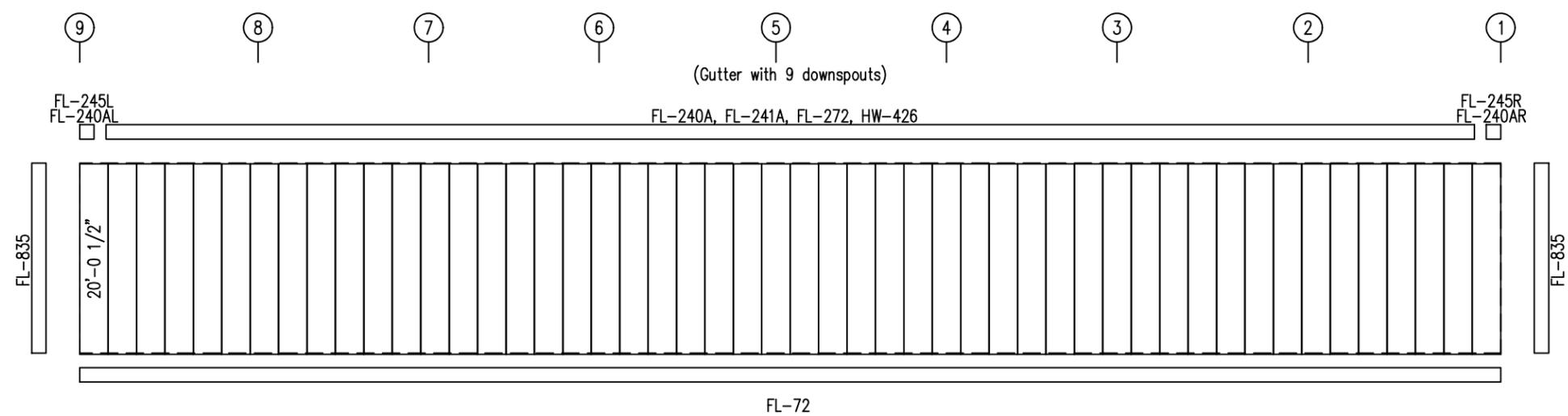
**REVIEWED**  
By Richard T Smith at 5:25 pm, Sep 25, 2023

|   |                             |
|---|-----------------------------|
| △ |                             |
| △ |                             |
| △ |                             |
| △ |                             |
| △ |                             |
| △ | ISSUED FOR APPROVAL 9/25/23 |

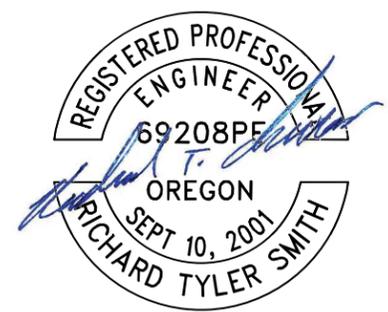


925 WEST KENYON AVENUE  
ENGLEWOOD, CO. 80110  
1-888-480-5552  
  
3149 HALDIMAND ROAD 9  
YORK, ONTARIO NOA 1R0  
1-866-382-5115

|                                   |               |               |
|-----------------------------------|---------------|---------------|
| CUSTOMER: PARAMOUNT IRONWORKS LLC |               |               |
| PROJECT: Jewell Substation        |               |               |
| LOCATION: Seaside, OR             |               |               |
| DRAWN BY:                         | DATE: 9/25/23 | JOB#: D23-466 |
| CHECKED BY:                       | DATE:         | SHEET: E4     |



SIDEWALL SHEETING & TRIM: FRAME LINE D  
 PANELS: 26 Ga. PR - Kynar Color



EXPIRES: 06/2024  
**REVIEWED**  
 By Richard T Smith at 5:25 pm, Sep 25, 2023

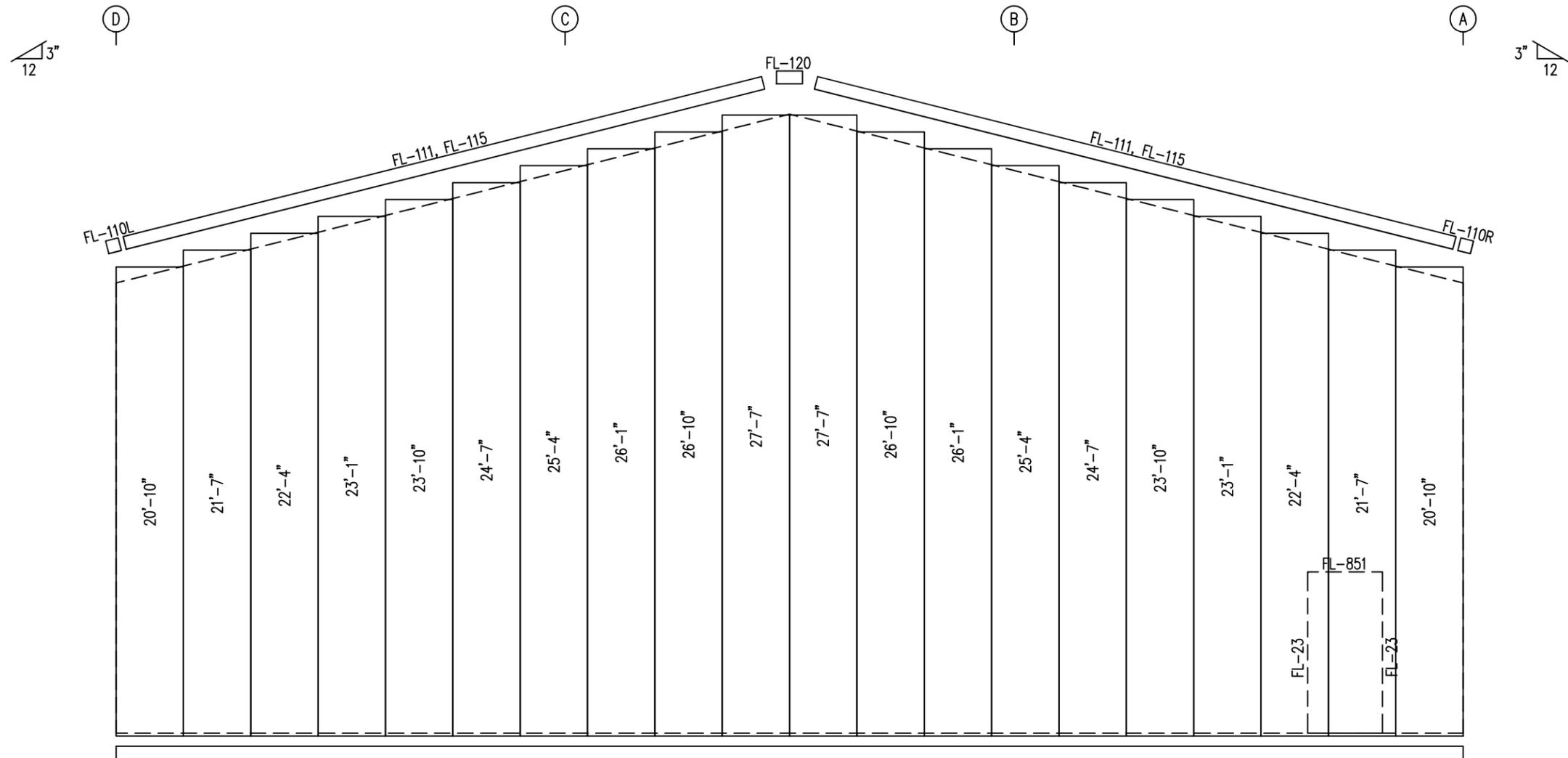
|   |                             |
|---|-----------------------------|
| △ |                             |
| △ |                             |
| △ |                             |
| △ |                             |
| △ | ISSUED FOR APPROVAL 9/25/23 |

925 WEST KENYON AVENUE  
 ENGLEWOOD, CO. 80110  
 1-888-480-5552

3149 HALDIMAND ROAD 9  
 YORK, ONTARIO N0A 1R0  
 1-866-382-5115

|                                   |               |               |
|-----------------------------------|---------------|---------------|
| CUSTOMER: PARAMOUNT IRONWORKS LLC |               |               |
| PROJECT: Jewell Substation        |               |               |
| LOCATION: Seaside, OR             |               |               |
| DRAWN BY:                         | DATE: 9/25/23 | JOB#: D23-466 |
| CHECKED BY:                       | DATE:         | SHEET: E4A    |





ENDWALL SHEETING & TRIM: FRAME LINE 1  
 PANELS: 26 Ga. PR - Kynar Color

3070 SELF-FRAMING  
 WALKDOOR  
 (FIELD LOCATED)



EXPIRES: 06/2024

**REVIEWED**  
 By Richard T Smith at 5:25 pm, Sep 25, 2023

|   |                             |
|---|-----------------------------|
| △ |                             |
| △ |                             |
| △ |                             |
| △ |                             |
| △ | ISSUED FOR APPROVAL 9/25/23 |



925 WEST KENYON AVENUE  
 ENGLEWOOD, CO. 80110  
 1-888-480-5552  
 3149 HALDIMAND ROAD 9  
 YORK, ONTARIO NOA 1R0  
 1-866-382-5115

|                                   |               |               |
|-----------------------------------|---------------|---------------|
| CUSTOMER: PARAMOUNT IRONWORKS LLC |               |               |
| PROJECT: Jewell Substation        |               |               |
| LOCATION: Seaside, OR             |               |               |
| DRAWN BY:                         | DATE: 9/25/23 | JOB#: D23-466 |
| CHECKED BY:                       | DATE:         | SHEET: E5A    |

| BOLT TABLE<br>FRAME LINE 9 |      |      |      |        |
|----------------------------|------|------|------|--------|
| LOCATION                   | QUAN | TYPE | DIA  | LENGTH |
| ER-5/ER-6                  | 4    | A325 | 5/8" | 2"     |
| ER-6/ER-7                  | 4    | A325 | 5/8" | 2"     |
| ER-7/ER-8                  | 4    | A325 | 5/8" | 2"     |
| Columns/Raf                | 4    | A325 | 5/8" | 1 3/4" |

| MEMBER TABLE<br>FRAME LINE 9 |          |              |
|------------------------------|----------|--------------|
| MARK                         | PART     | LENGTH       |
| EC-1                         | 8F25C16  | 18'-4 3/16"  |
| EC-2                         | W8X10    | 23'-2 1/8"   |
| ER-5                         | 12F35C12 | 19'-4 13/16" |
| ER-6                         | 12F35C12 | 11'-6"       |
| ER-7                         | 12F35C12 | 11'-6"       |
| ER-8                         | 12F35C12 | 19'-4 13/16" |
| G-1                          | 8X25Z14  | 18'-7 3/4"   |
| G-2                          | 8X25Z16  | 18'-7 3/4"   |
| G-3                          | 8X25Z16  | 15'-4 1/2"   |
| G-4                          | 8X25Z14  | 19'-4"       |
| CB-1                         | WC5      | 30'-2"       |

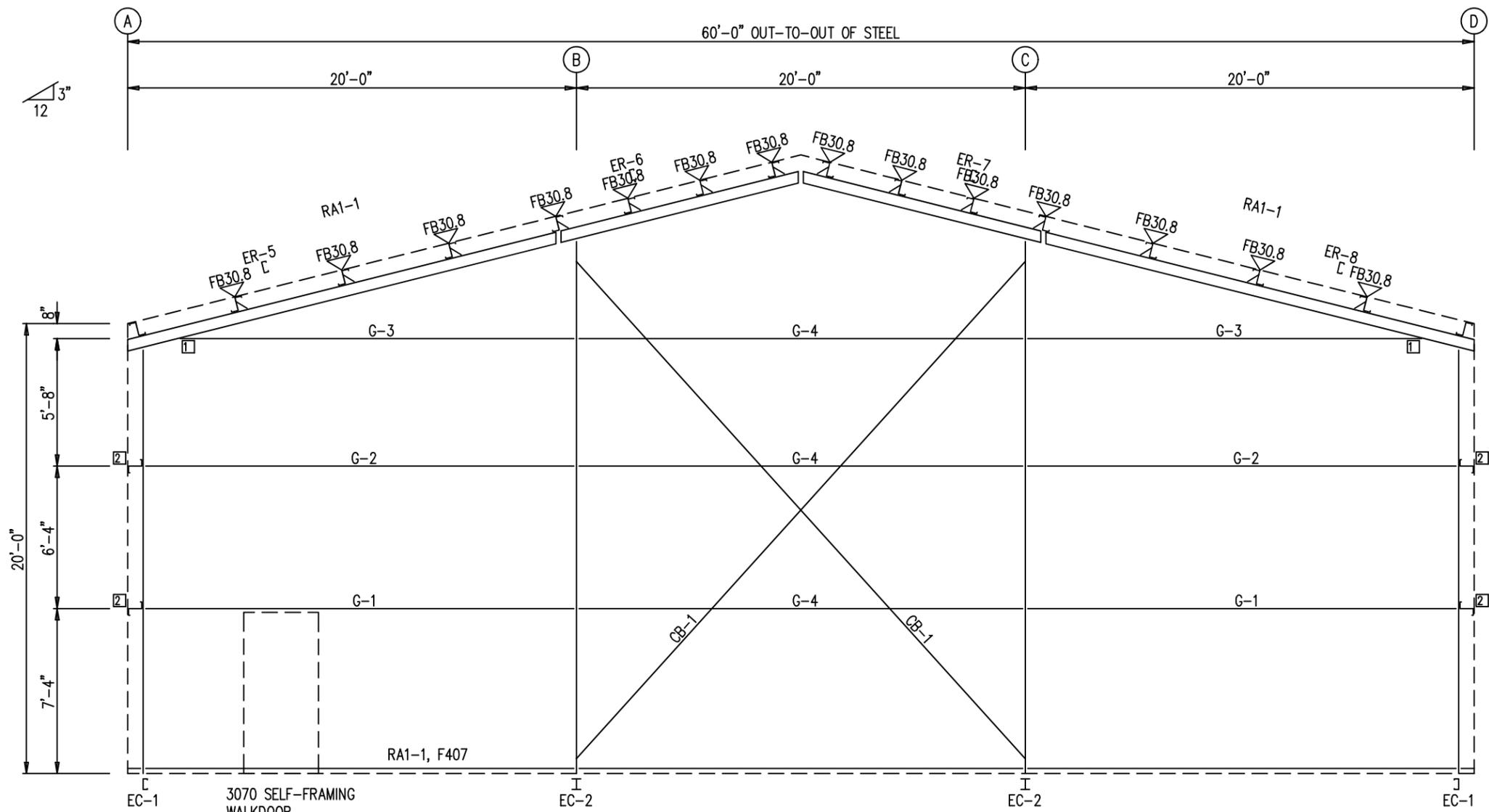
| FLANGE BRACE TABLE<br>FRAME LINE 9 |        |           |
|------------------------------------|--------|-----------|
| VID                                | MARK   | LENGTH    |
| 1                                  | FB30.8 | 2'-6 3/4" |

| CONNECTION PLATES<br>FRAME LINE 9 |           |  |
|-----------------------------------|-----------|--|
| ID                                | MARK/PART |  |
| 1                                 | SC512     |  |
| 2                                 | SC-5      |  |



EXPIRES: 06/2024

**REVIEWED**  
By Richard T Smith at 5:25 pm, Sep 25, 2023



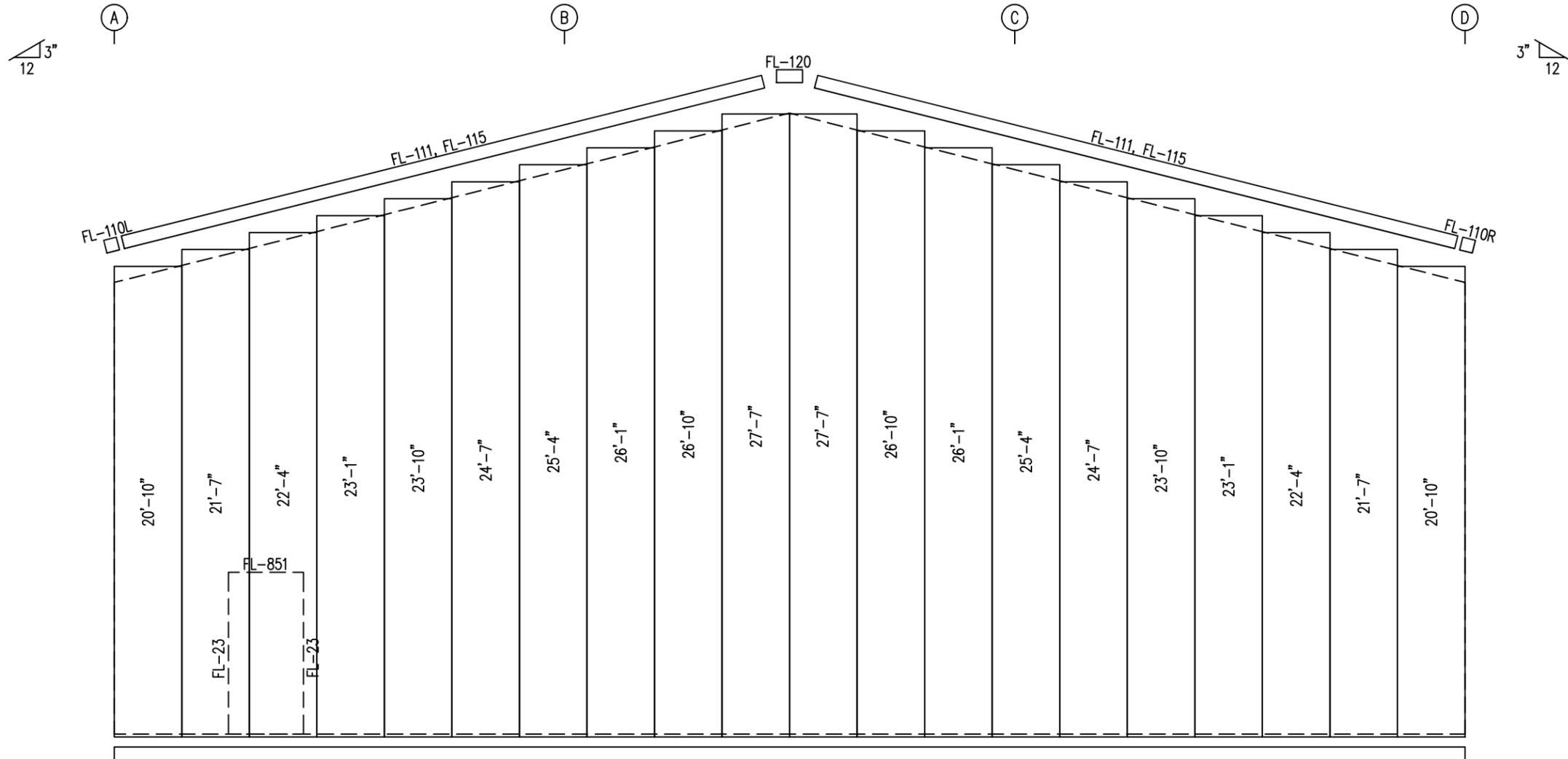
ENDWALL FRAMING: FRAME LINE 9

|   |                             |
|---|-----------------------------|
| △ |                             |
| △ |                             |
| △ |                             |
| △ |                             |
| △ | ISSUED FOR APPROVAL 9/25/23 |



925 WEST KENYON AVENUE  
ENGLEWOOD, CO. 80110  
1-888-480-5552  
  
3149 HALDIMAND ROAD 9  
YORK, ONTARIO NOA 1R0  
1-866-382-5115

|                                   |               |               |
|-----------------------------------|---------------|---------------|
| CUSTOMER: PARAMOUNT IRONWORKS LLC |               |               |
| PROJECT: Jewell Substation        |               |               |
| LOCATION: Seaside, OR             |               |               |
| DRAWN BY:                         | DATE: 9/25/23 | JOB#: D23-466 |
| CHECKED BY:                       | DATE:         | SHEET: E6     |

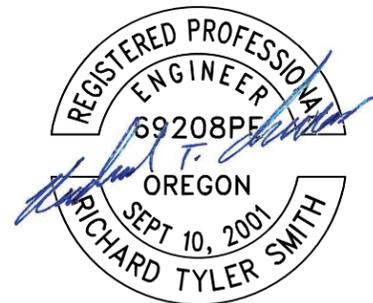


3070 SELF-FRAMING  
WALKDOOR  
(FIELD LOCATED)

FL-72

ENDWALL SHEETING & TRIM: FRAME LINE 9

PANELS: 26 Ga. PR - Kynar Color



EXPIRES: 06/2024

**REVIEWED**  
By Richard T Smith at 5:25 pm, Sep 25, 2023

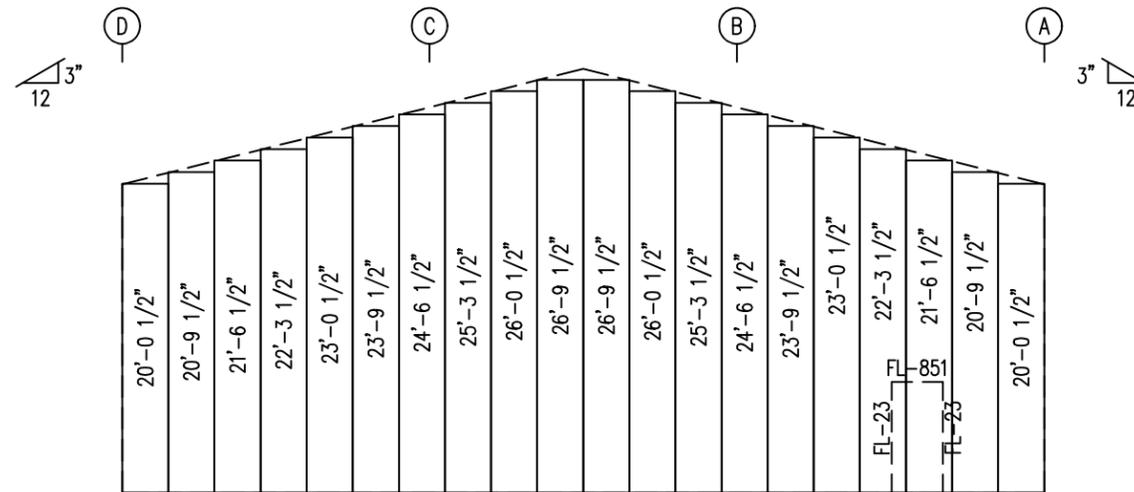
|   |                             |
|---|-----------------------------|
| △ |                             |
| △ |                             |
| △ |                             |
| △ |                             |
| △ | ISSUED FOR APPROVAL 9/25/23 |



925 WEST KENYON AVENUE  
ENGLEWOOD, CO. 80110  
1-888-480-5552  
  
3149 HALDIMAND ROAD 9  
YORK, ONTARIO NOA 1R0  
1-866-382-5115

|                                   |               |               |
|-----------------------------------|---------------|---------------|
| CUSTOMER: PARAMOUNT IRONWORKS LLC |               |               |
| PROJECT: Jewell Substation        |               |               |
| LOCATION: Seaside, OR             |               |               |
| DRAWN BY:                         | DATE: 9/25/23 | JOB#: D23-466 |
| CHECKED BY:                       | DATE:         | SHEET: E6A    |

| MEMBER TABLE |         |              |
|--------------|---------|--------------|
| PARTITION 1  |         |              |
| MARK         | PART    | LENGTH       |
| G-18         | 8X25Z16 | 17'-10 3/4"  |
| G-19         | 8X25Z16 | 13'-8 15/16" |
| G-20         | 8X25Z16 | 19'-8 1/16"  |



3070 SELF-FRAMING  
WALKDOOR  
(FIELD LOCATED)

PARTITION 1 LEFT SHEETING & TRIM (LINE 3)  
PANELS: 26 Ga. PR - Kynar Color



EXPIRES: 06/2024

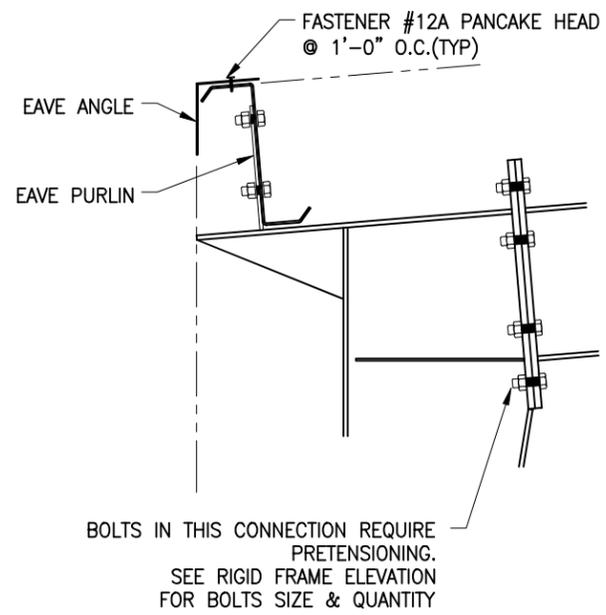
**REVIEWED**  
By Richard T Smith at 5:25 pm, Sep 25, 2023

|   |                             |
|---|-----------------------------|
| △ |                             |
| △ |                             |
| △ |                             |
| △ |                             |
| △ | ISSUED FOR APPROVAL 9/25/23 |

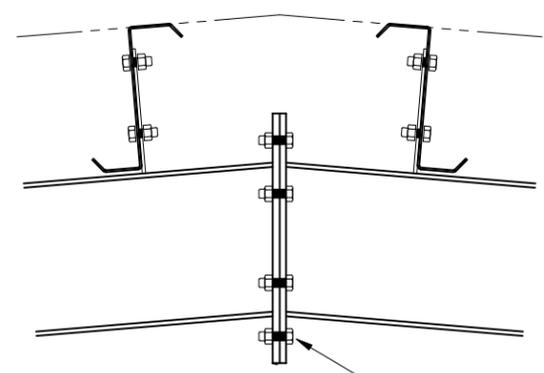


925 WEST KENYON AVENUE  
ENGLEWOOD, CO. 80110  
1-888-480-5552  
  
3149 HALDIMAND ROAD 9  
YORK, ONTARIO NOA 1R0  
1-866-382-5115

|                                   |               |               |
|-----------------------------------|---------------|---------------|
| CUSTOMER: PARAMOUNT IRONWORKS LLC |               |               |
| PROJECT: Jewell Substation        |               |               |
| LOCATION: Seaside, OR             |               |               |
| DRAWN BY:                         | DATE: 9/25/23 | JOB#: D23-466 |
| CHECKED BY:                       | DATE:         | SHEET: E7     |

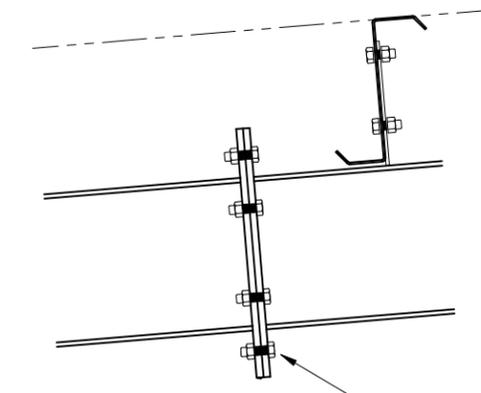


LOW EAVE CONNECTION



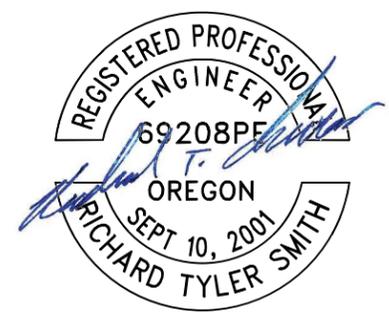
BOLTS IN THIS CONNECTION REQUIRE  
PRETENSIONING.  
SEE RIGID FRAME ELEVATION  
FOR BOLTS SIZE & QUANTITY

RAFTER PEAK



BOLTS IN THIS CONNECTION REQUIRE  
PRETENSIONING.  
SEE RIGID FRAME ELEVATION  
FOR BOLTS SIZE & QUANTITY

RAFTER SPLICE



EXPIRES: 06/2024

**REVIEWED**  
By Richard T Smith at 5:25 pm, Sep 25, 2023

NOTES: 1) ALL BOLTS TO BE 1/2" A325 BOLTS (UNLESS NOTED)

2) INSTALL A325 WASHER ON ONE SIDE ONLY ON ALL A325 H.S. BOLTS

- BOLTED
- OPEN HOLE

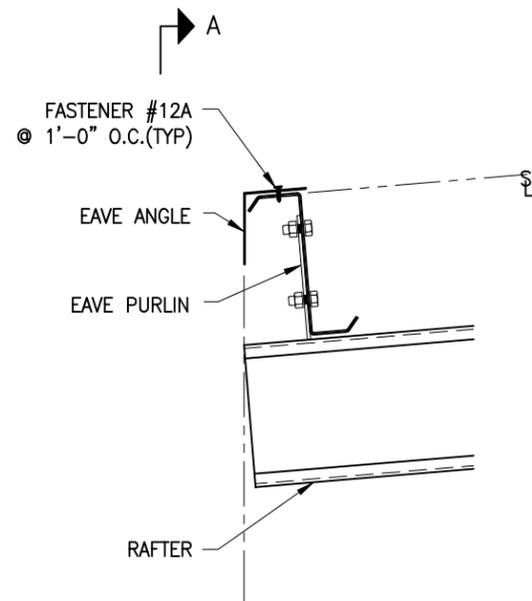


925 WEST KENYON AVENUE  
ENGLEWOOD, CO. 80110  
1-888-480-5552

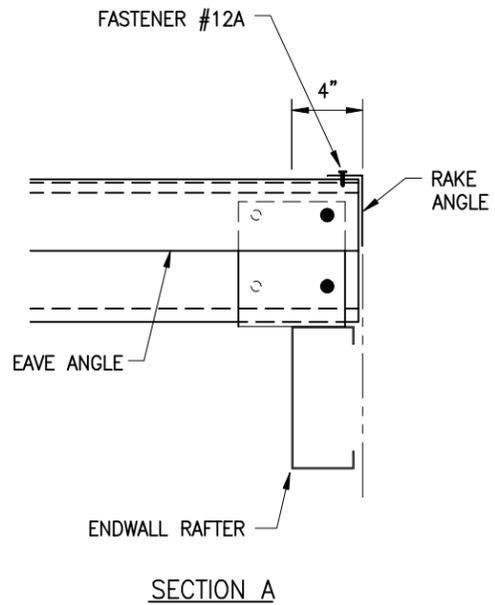
3149 HALDIMAND ROAD 9  
YORK, ONTARIO N0A 1R0  
1-866-382-5115

TYPICAL MAINFRAME  
CONNECTION DETAILS

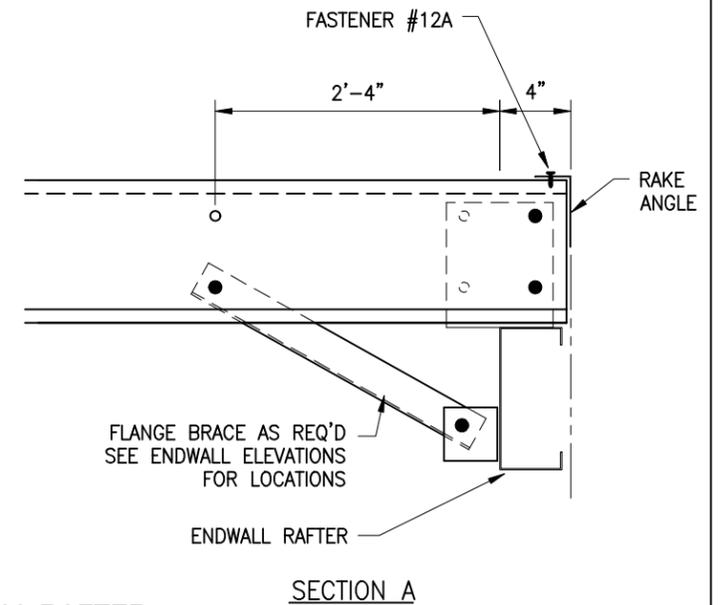
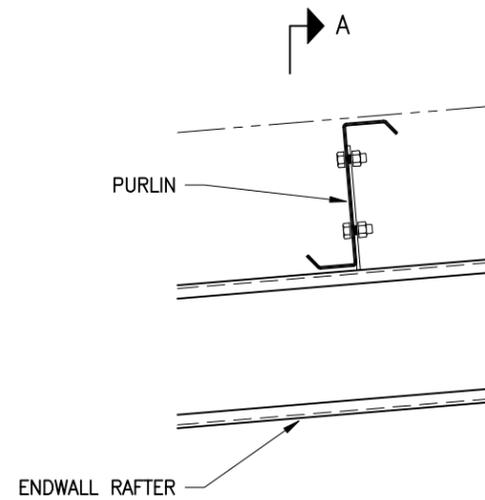
SHEET: D1



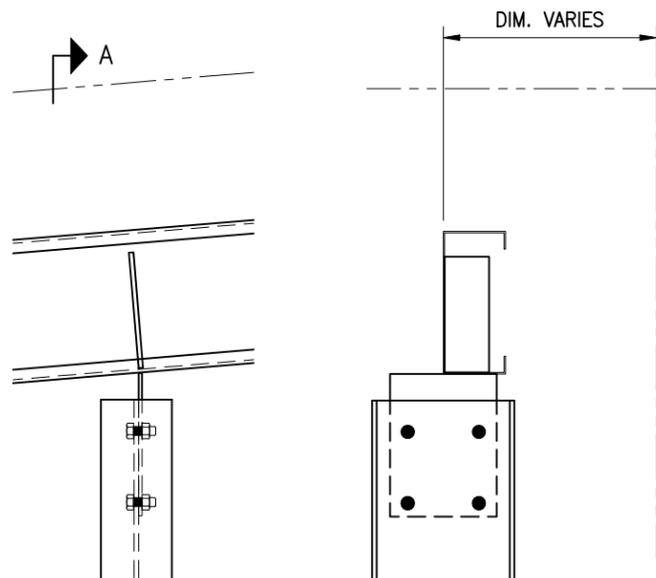
EAVE PURLIN TO ENDWALL RAFTER



PURLIN TO ENDWALL RAFTER

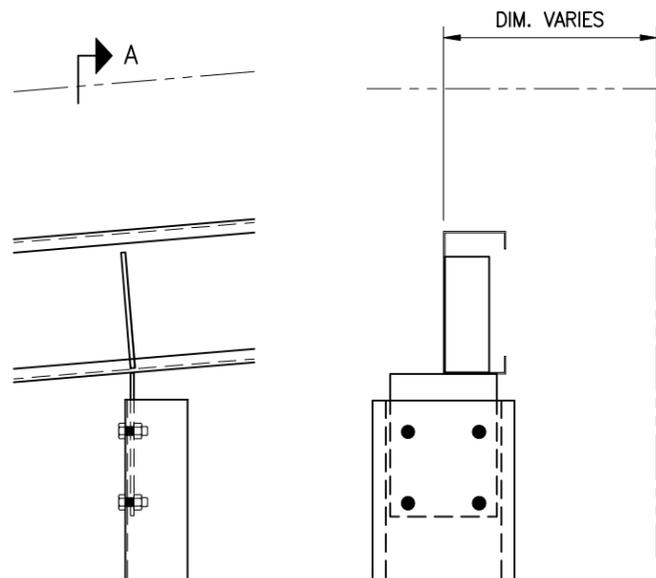


SECTION A



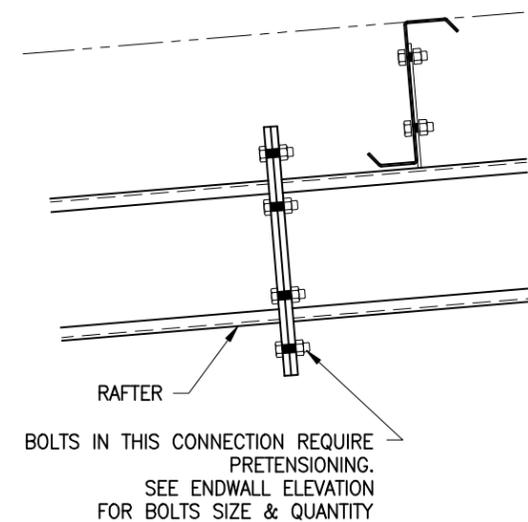
SECTION A

ENDWALL COLUMN TO RAFTER

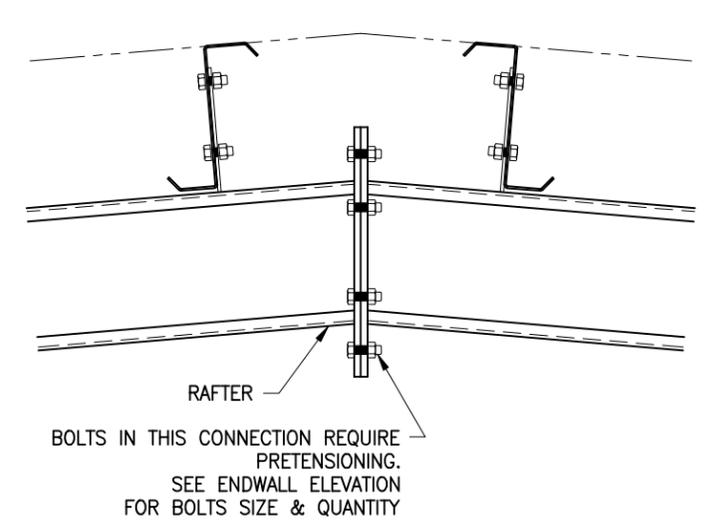


SECTION A

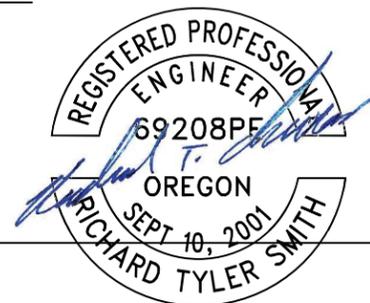
ENDWALL COLUMN TO RAFTER



ENDWALL RAFTER SPLICE CONNECTION



ENDWALL RAFTER PEAK CONNECTION



EXPIRES: 06/2024

**REVIEWED**

By Richard T Smith at 5:25 pm, Sep 25, 2023



925 WEST KENYON AVENUE  
 ENGLEWOOD, CO. 80110  
 1-888-480-5552

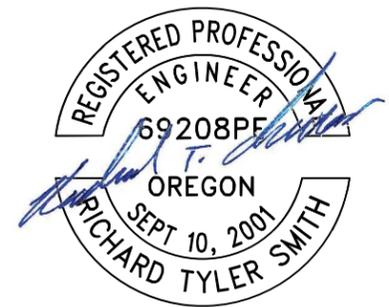
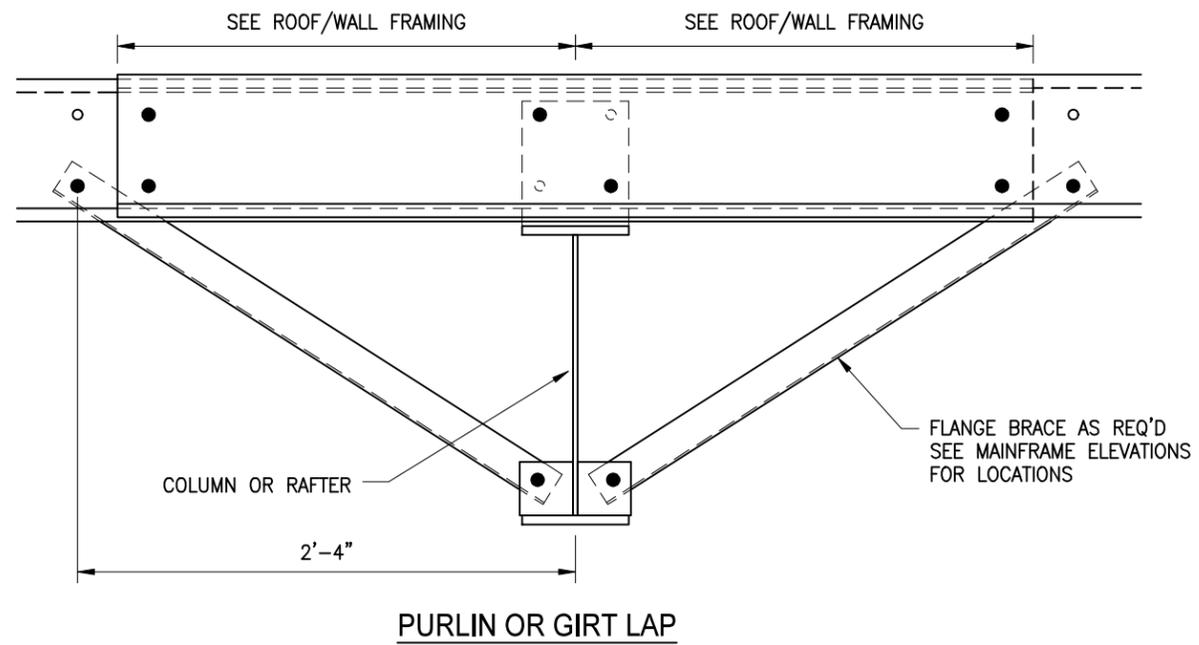
3149 HALDIMAND ROAD 9  
 YORK, ONTARIO N0A 1R0  
 1-866-382-5115

TYPICAL ENDWALL  
 FRAMING DETAILS

SHEET: D1A

- NOTES: 1) ALL BOLTS TO BE 1/2" A325 BOLTS (UNLESS NOTED)  
 2) INSTALL A325 WASHER ON ONE SIDE ONLY ON ALL A325 H.S. BOLTS  
 3) FIELD DRILLING HOLES MAY BE REQUIRED.

- BOLTED
- OPEN HOLE



EXPIRES: 06/2024

**REVIEWED**  
By Richard T Smith at 5:25 pm, Sep 25, 2023

- NOTES: 1) ALL BOLTS TO BE 1/2" A325 BOLTS (UNLESS NOTED)  
2) INSTALL A325 WASHER ON ONE SIDE ONLY ON ALL A325 H.S. BOLTS

- BOLTED
- OPEN HOLE

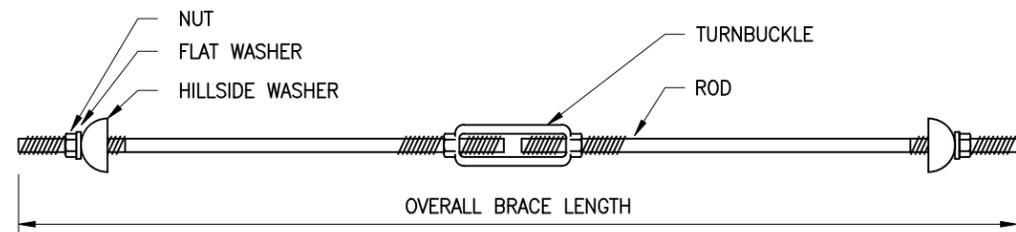
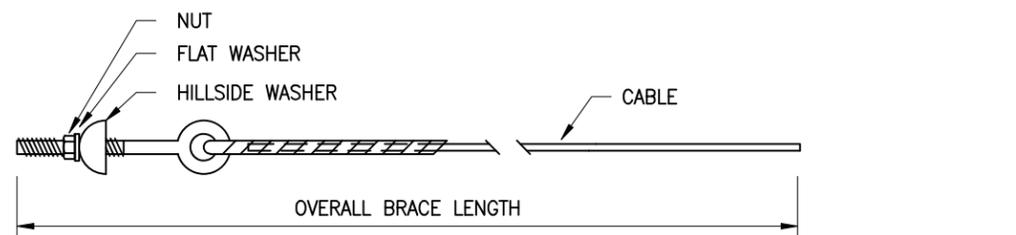
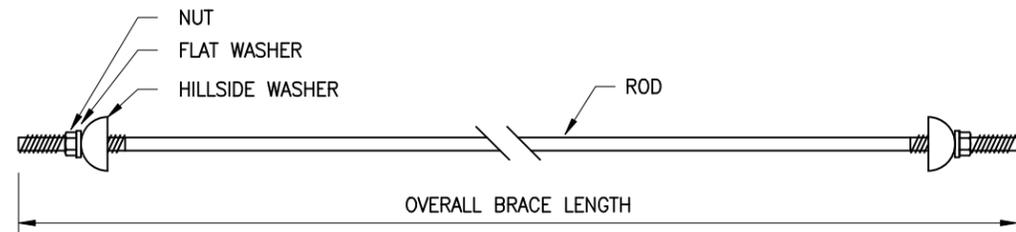
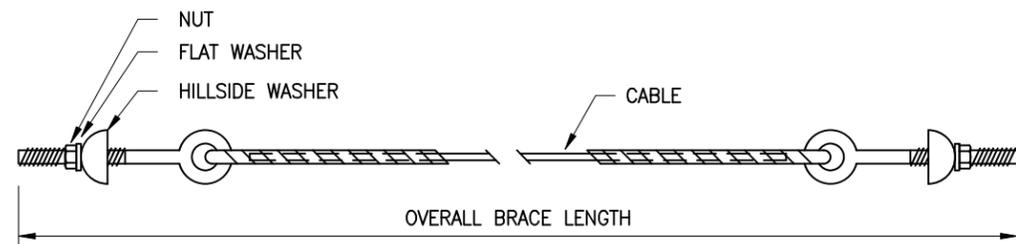


925 WEST KENYON AVENUE  
ENGLEWOOD, CO. 80110  
1-888-480-5552

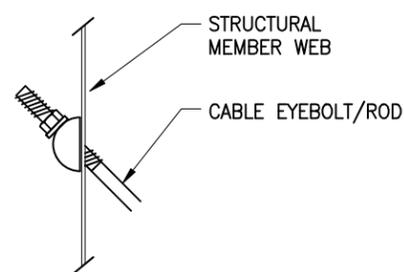
3149 HALDIMAND ROAD 9  
YORK, ONTARIO N0A 1R0  
1-866-382-5115

TYPICAL PURLIN/GIRT LAP  
CONNECTION DETAILS

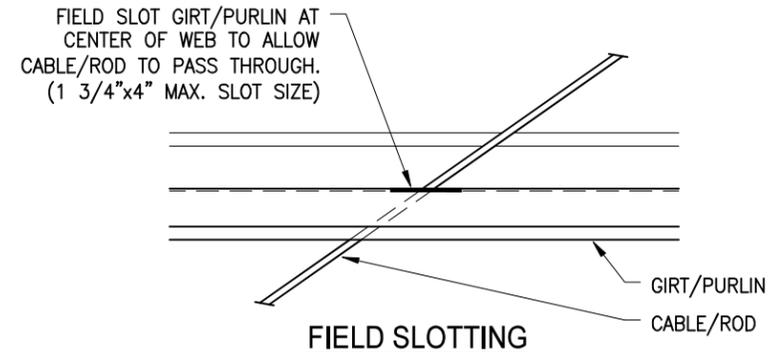
SHEET: D2



**BRACING ASSEMBLIES**



**BRACE ATTACHMENT TO WEB**



**FIELD SLOTTING**



**REVIEWED**  
By Richard T Smith at 5:25 pm, Sep 25, 2023

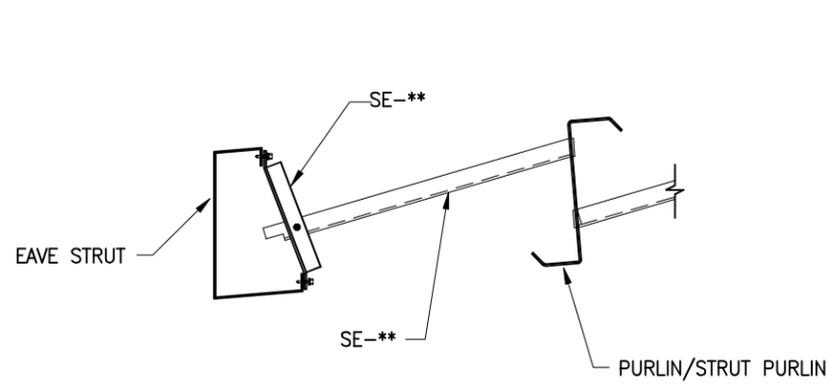
- NOTES: 1) ALL BOLTS TO BE 1/2" A325 BOLTS (UNLESS NOTED)  
2) INSTALL A325 WASHER ON ONE SIDE ONLY ON ALL A325 H.S. BOLTS  
3) FIELD DRILLING HOLES MAY BE REQUIRED.



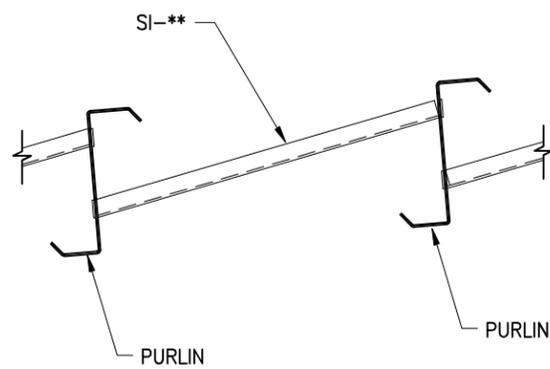
925 WEST KENYON AVENUE  
ENGLEWOOD, CO. 80110  
1-888-480-5552  
  
3149 HALDIMAND ROAD 9  
YORK, ONTARIO N0A 1R0  
1-866-382-5115

**TYPICAL BRACING  
DETAILS**

SHEET: D3

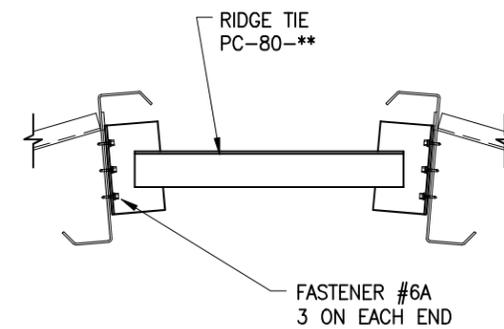


LOW SIDE EAVE STRUT

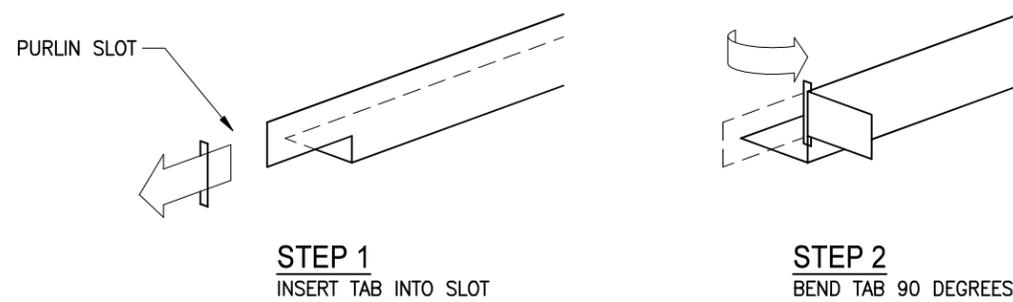


PURLIN TO PURLIN

NOTE: ALL FASTENERS SHOWN ARE #1B 1/4-14x1 1/4" U.N.O. (PRE-DRILL AS REQUIRED)

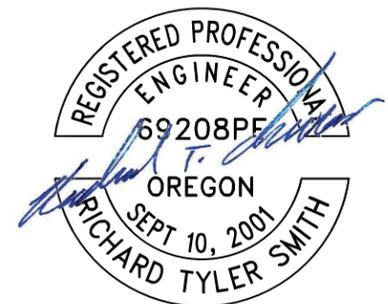


AT RIDGE



INSTALLATION

NOTE: THE BRIDGING MUST BE INSERTED INTO THE PRE-PUNCHED SLOT IN THE PURLIN AS IN STEP 1 AND THE TAB BENT SIDEWAYS FOR PROPER INSTALLATION STEP 2. THE PROCESS MUST BE COMPLETE FOR THE BRIDGING TO FUNCTION AS DESIGNED.



EXPIRES: 06/2024

**REVIEWED**  
By Richard T Smith at 5:25 pm, Sep 25, 2023

NOTES: SEE ROOF FRAMING PLAN FOR QUANTITY & LOCATION OF KNOCK-IN BRIDGING

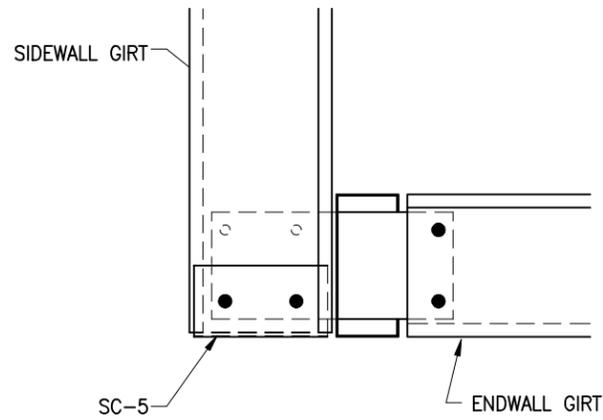


925 WEST KENYON AVENUE  
ENGLEWOOD, CO. 80110  
1-888-480-5552

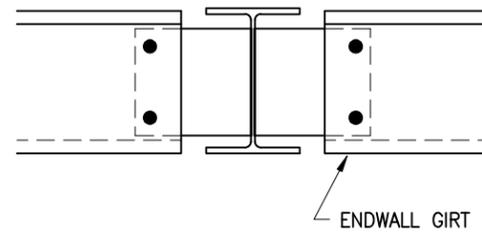
3149 HALDIMAND ROAD 9  
YORK, ONTARIO N0A 1R0  
1-866-382-5115

TYPICAL KNOCK-IN BRIDGING  
DETAILS

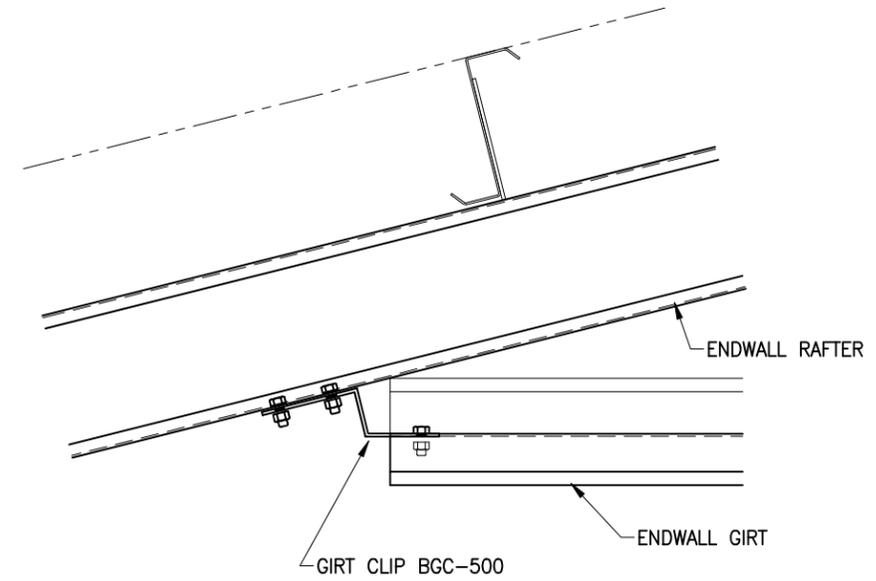
SHEET: D3A



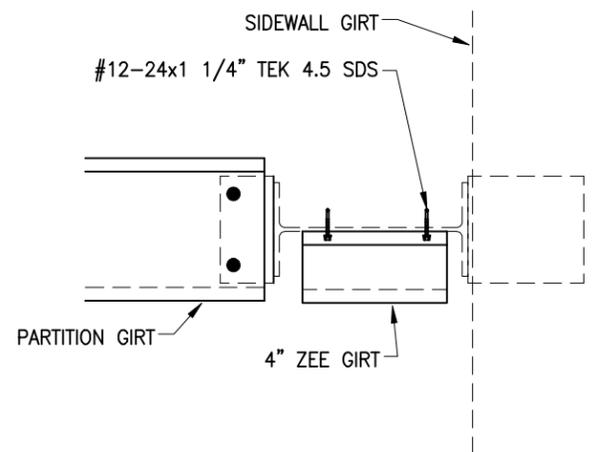
GIRT TO CORNER COLUMN



ENDWALL GIRT TO ENDWALL COLUMN



GIRT TO ENDWALL RAFTER



PARTITION GIRT TO INTERIOR COLUMN



**REVIEWED**  
By Richard T Smith at 5:25 pm, Sep 25, 2023

- NOTES: 1) ALL BOLTS TO BE 1/2" A325 BOLTS (UNLESS NOTED)  
 2) INSTALL A325 WASHER ON ONE SIDE ONLY ON ALL A325 H.S. BOLTS  
 3) FIELD DRILLING HOLES MAY BE REQUIRED.
- BOLTED
  - OPEN HOLE

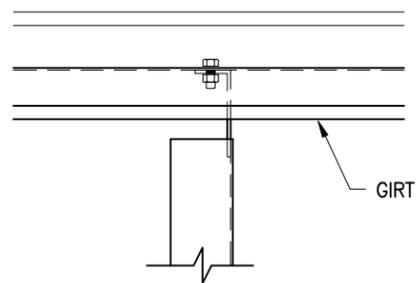


925 WEST KENYON AVENUE  
 ENGLEWOOD, CO. 80110  
 1-888-480-5552

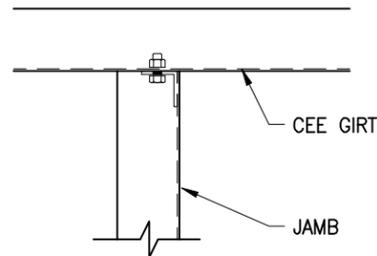
3149 HALDIMAND ROAD 9  
 YORK, ONTARIO N0A 1R0  
 1-866-382-5115

TYPICAL GIRT  
 CONNECTION DETAILS

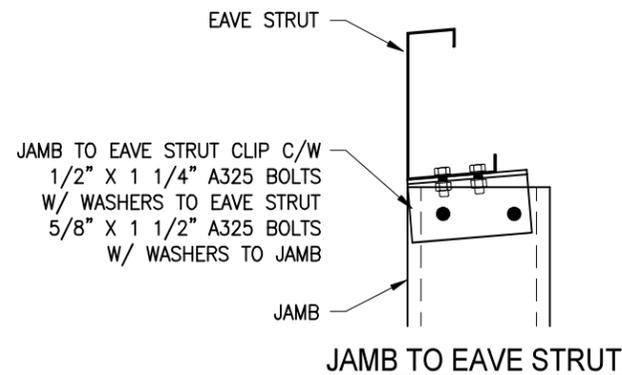
SHEET: D4



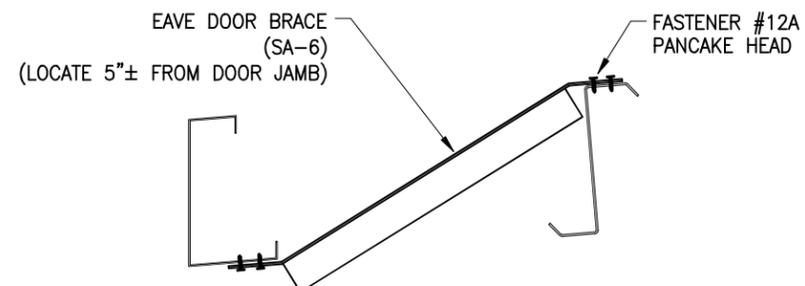
JAMB TO GIRT



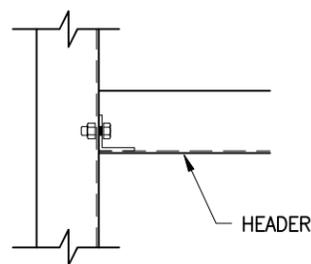
JAMB TO CEE GIRT



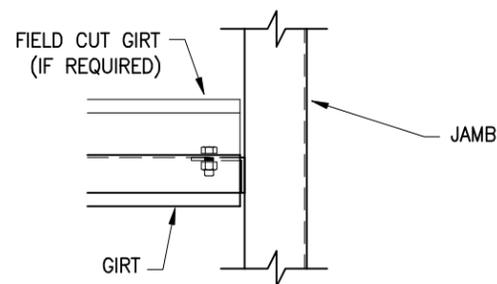
JAMB TO EAVE STRUT



OVERHEAD DOOR JAMB BRACE



HEADER TO JAMB



GIRT TO JAMB



EXPIRES: 06/2024

**REVIEWED**  
By Richard T Smith at 5:25 pm, Sep 25, 2023

- NOTES: 1) ALL BOLTS TO BE 1/2" A325 BOLTS (UNLESS NOTED)  
2) INSTALL A325 WASHER ON ONE SIDE ONLY ON ALL A325 H.S. BOLTS  
3) FIELD DRILLING HOLES MAY BE REQUIRED.

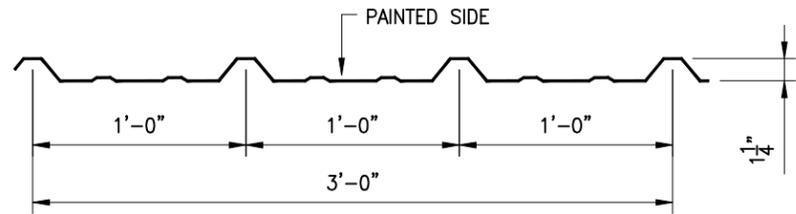


925 WEST KENYON AVENUE  
ENGLEWOOD, CO. 80110  
1-888-480-5552

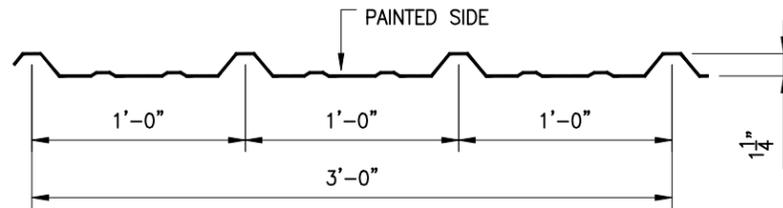
3149 HALDIMAND ROAD 9  
YORK, ONTARIO N0A 1R0  
1-866-382-5115

TYPICAL FRAMED  
OPENING DETAILS

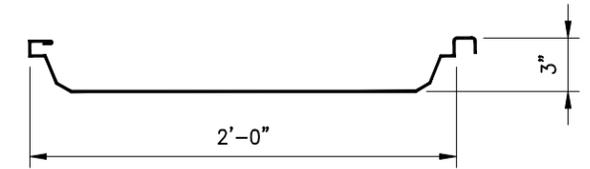
SHEET: D5



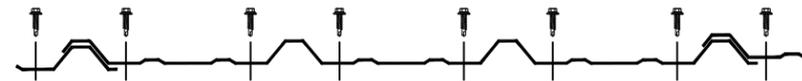
PBR PANEL PROFILE



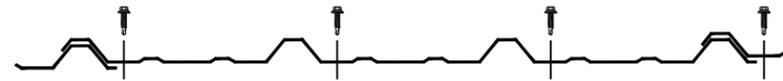
PBR PANEL PROFILE



DOUBLE-LOK PANEL PROFILES

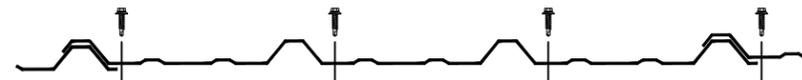


ROOF PANEL TO EAVE, PEAK & SPLICE.  
WALL PANEL TO BASE, EAVE, RAKE & SPLICE.



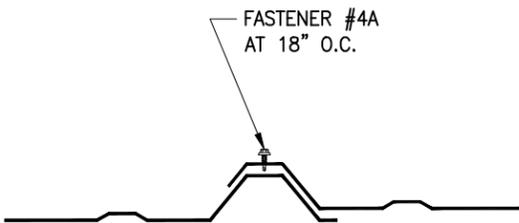
LINER PANEL TO BASE, EAVE, RAKE & SPLICE & INTERMEDIATE GIRTS & PURLINS.

FASTENER SPACING



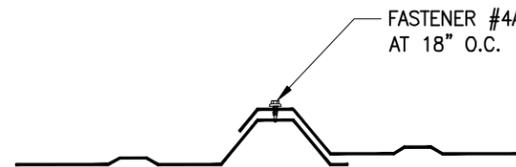
PANEL TO ALL INTERMEDIATE PURLINS & GIRTS.

FASTENER SPACING



WALL PANEL SIDELAP

PBR PANEL



PBR WALL LINER PANEL SIDELAP

PBR LINER PANEL

**ROOF FASTENERS**

FASTENER #3A  
(12-14x1 1/2" LONG LIFE SDS W/WASHER)  
FASTENER #58 (USE IF INSULATION IS => 6")  
(12-14x 2" LONG LIFE SDS W/WASHER)

FASTENER #4  
(1/4"-14x7/8" LONG LIFE LAP TEK SDS)

**WALL FASTENERS**

FASTENER #17B  
(12-14x1 1/2" SDS W/WASHER)  
FASTENER #28 (USE IF INSULATION IS => 6")  
(12-14x 2" LONG LIFE SDS W/WASHER)

FASTENER #4A  
(1/4"-14x7/8" LAP TEK SDS)

**LINER FASTENERS**

FASTENER #17A  
(12-14x1 1/4" SDS W/WASHER)



EXPIRES: 06/2024

**REVIEWED**  
By Richard T Smith at 5:25 pm, Sep 25, 2023

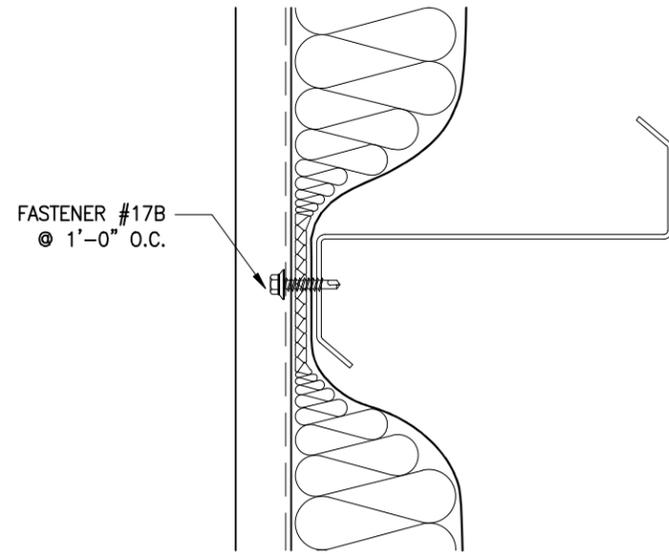
- NOTES: 1) PRE-DRILLING IS RECOMMENDED. AFTER PRE-DRILLING, METAL SHAVINGS MUST BE CLEANED FROM PANEL SURFACE TO PREVENT CORROSION.  
2) INSTALL SIDE LAP FASTENERS ONLY AFTER STRUCTURAL FASTENERS ARE IN PLACE.



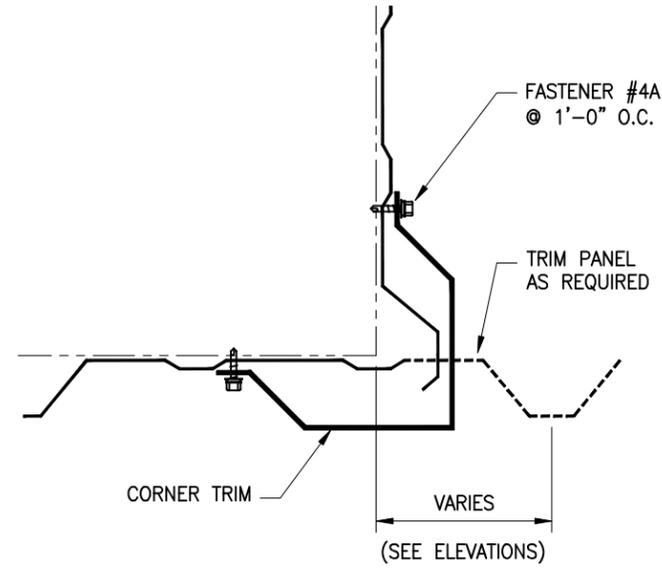
925 WEST KENYON AVENUE  
ENGLEWOOD, CO. 80110  
1-888-480-5552  
3149 HALDIMAND ROAD 9  
YORK, ONTARIO N0A 1R0  
1-866-382-5115

PANEL PROFILES &  
FASTENER SPACINGS

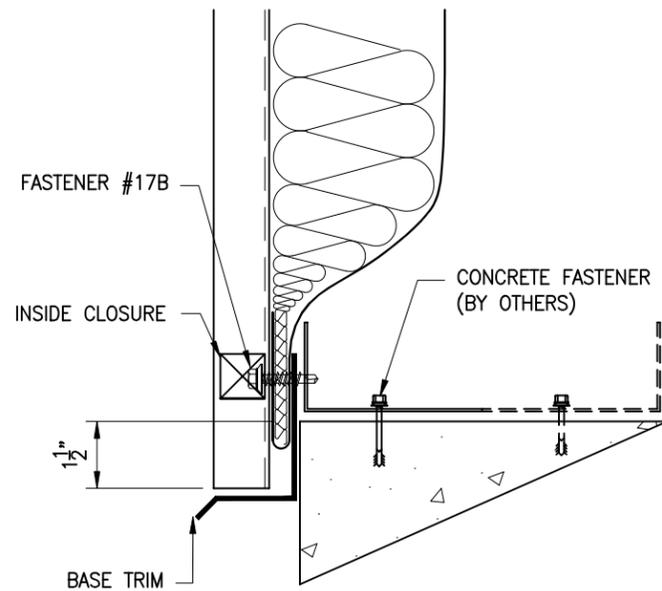
SHEET: D6



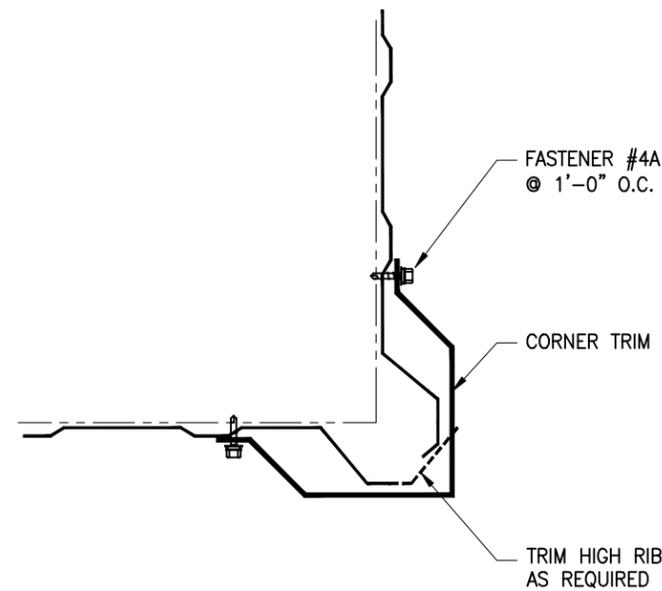
WALL PANEL TO GIRT



OUTSIDE CORNER DETAIL



BASE



OUTSIDE CORNER DETAIL



EXPIRES: 06/2024

**REVIEWED**  
By Richard T Smith at 5:25 pm, Sep 25, 2023

- NOTES: 1) ROOF SCREWS ARE 2" LONG IF INSULATION IS EQUAL TO OR GREATER THAN 6". WALL SCREWS ARE 2" LONG IF INSULATION THICKNESS IS EQUAL TO OR GREATER THAN 6".
- 2) PROCEDURES FOR PROPER INSULATION INSTALLATION ARE NOT BY BRAEMAR

- 3) INSTALLER OF INSULATION IS RESPONSIBLE FOR PROVIDING A CONTINUOUS THERMAL BARRIER.
- 4) BRAEMAR BUILDING SYSTEMS INC. IS NOT RESPONSIBLE FOR THE THERMAL DESIGN OF BUILDING ENVELOPE.

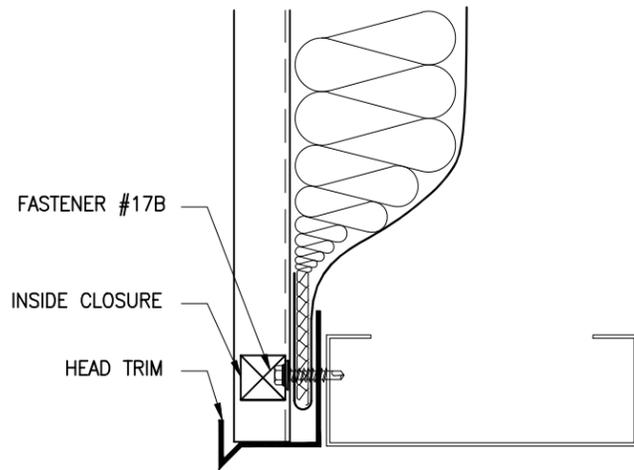


925 WEST KENYON AVENUE  
ENGLEWOOD, CO. 80110  
1-888-480-5552

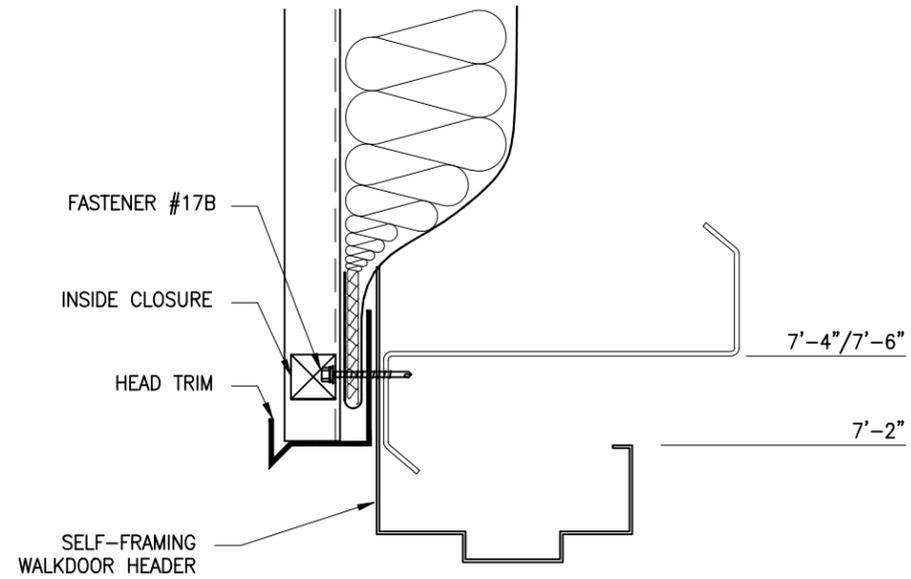
3149 HALDIMAND ROAD 9  
YORK, ONTARIO N0A 1R0  
1-866-382-5115

TYPICAL PBR PANEL  
DETAILS

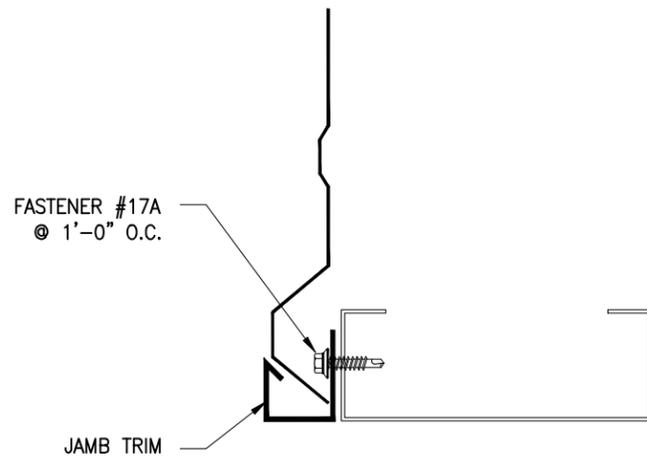
SHEET: D7



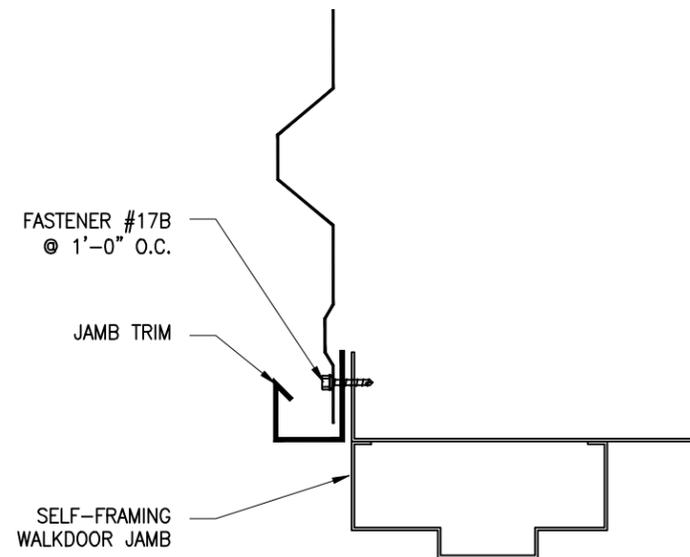
HEADER AT FRAMED OPENING



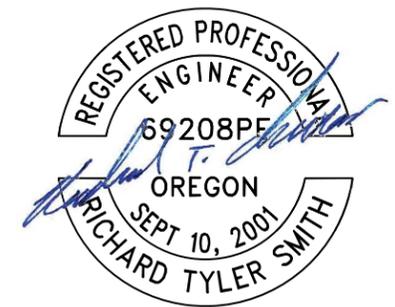
HEADER AT SELF-FRAMING WALK DOOR



JAMB AT FRAMED OPENING



JAMB AT SELF-FRAMING WALKDOOR



EXPIRES: 06/2024

**REVIEWED**  
By Richard T Smith at 5:25 pm, Sep 25, 2023

- NOTES: 1) ROOF SCREWS ARE 2" LONG IF INSULATION IS EQUAL TO OR GREATER THAN 6". WALL SCREWS ARE 2" LONG IF INSULATION THICKNESS IS EQUAL TO OR GREATER THAN 6".
- 2) PROCEDURES FOR PROPER INSULATION INSTALLATION ARE NOT BY BRAEMAR

- 3) INSTALLER OF INSULATION IS RESPONSIBLE FOR PROVIDING A CONTINUOUS THERMAL BARRIER.
- 4) BRAEMAR BUILDING SYSTEMS INC. IS NOT RESPONSIBLE FOR THE THERMAL DESIGN OF BUILDING ENVELOPE.



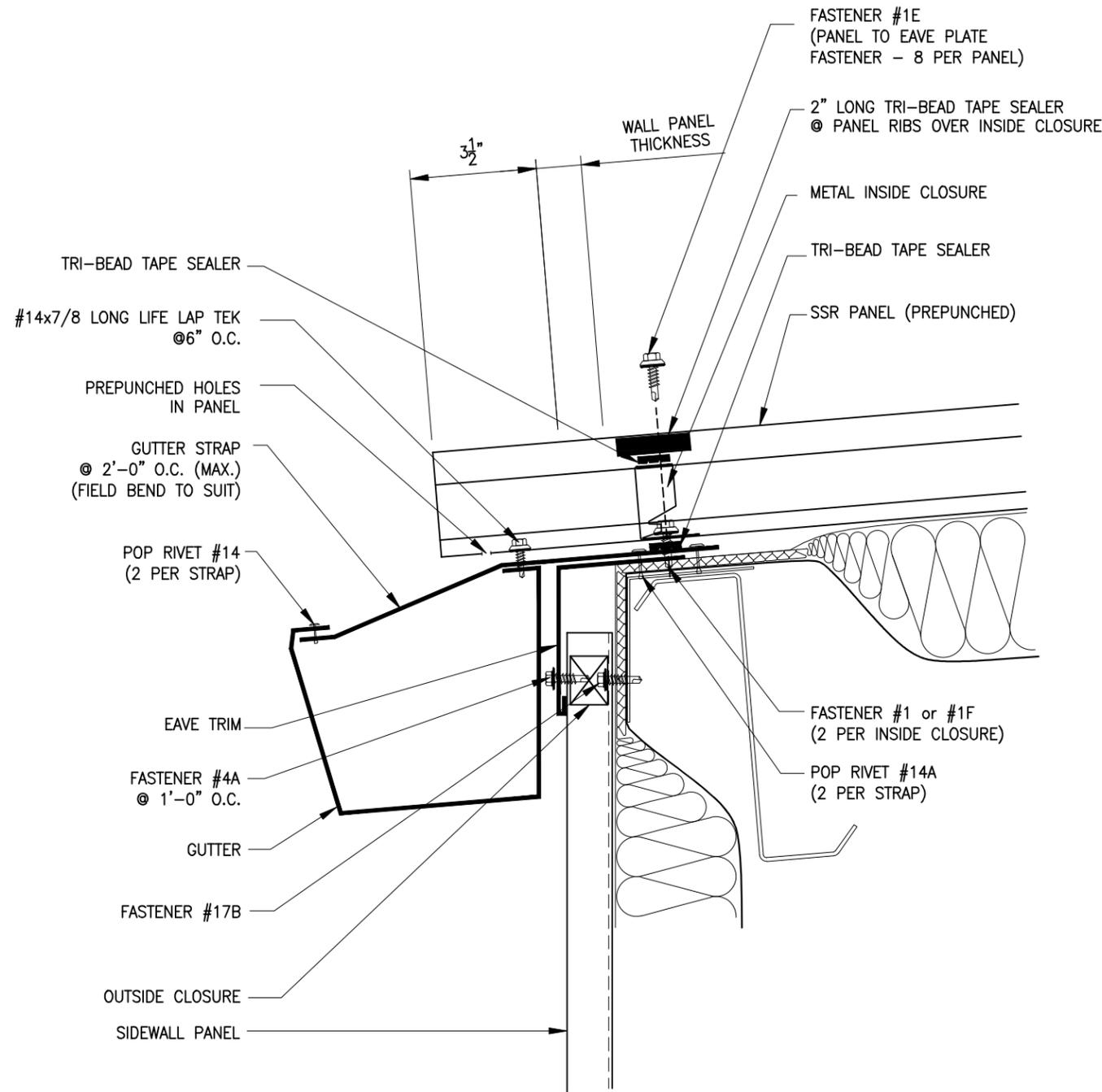
925 WEST KENYON AVENUE  
ENGLEWOOD, CO. 80110  
1-888-480-5552

3149 HALDIMAND ROAD 9  
YORK, ONTARIO N0A 1R0  
1-866-382-5115

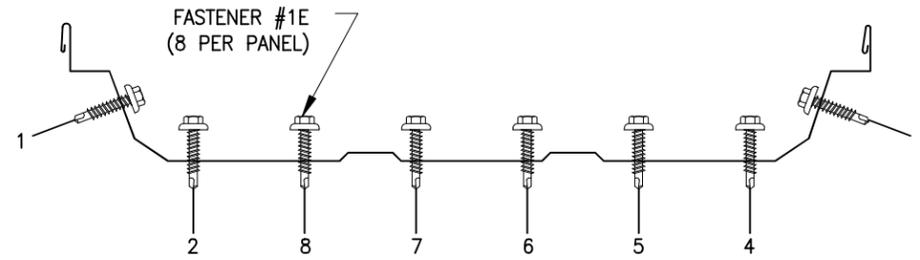
TYPICAL PBR PANEL  
DETAILS

SHEET: D7A

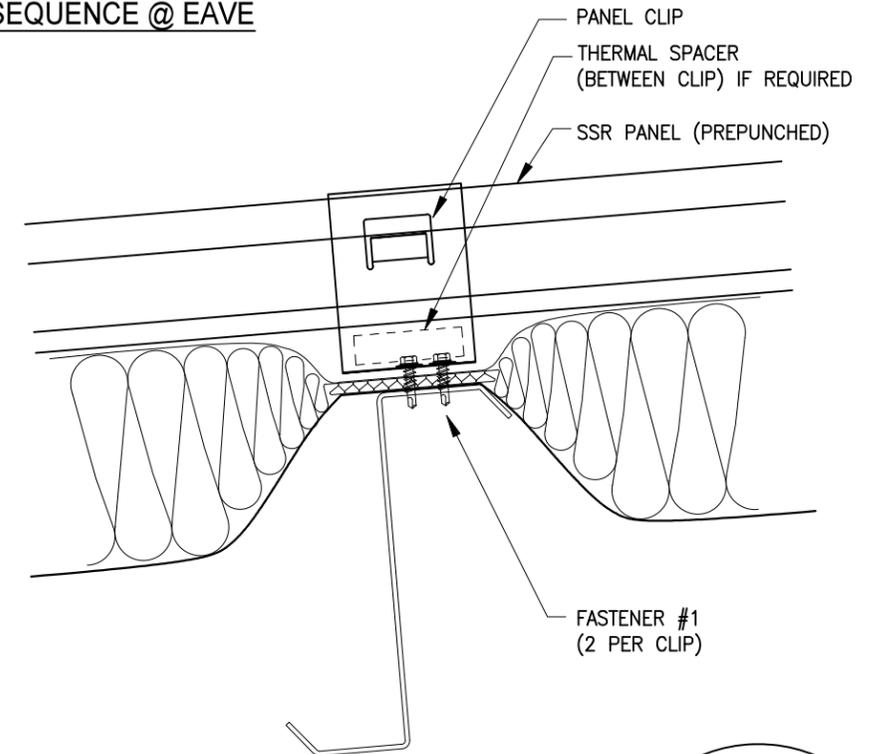
**NOTE**  
MINOR RIB TAPE SEALER  
AT ALL MINOR RIBS



**SNOW GUTTER (LOW)**



**FASTENER SEQUENCE @ EAVE**



**INTERMEDIATE CLIP**



EXPIRES: 06/2024

**REVIEWED**  
By Richard T Smith at 5:25 pm, Sep 25, 2023

NOTES: 1) ROOF SCREWS ARE 1 1/2" LONG IF INSULATION IS EQUAL TO OR GREATER THAN 6". WALL SCREWS ARE 2" LONG IF INSULATION THICKNESS IS EQUAL TO OR GREATER THAN 6".  
2) PROCEDURES FOR PROPER INSULATION INSTALLATION ARE NOT BY BRAEMAR

3) INSTALLER OF INSULATION IS RESPONSIBLE FOR PROVIDING A CONTINUOUS THERMAL BARRIER.  
4) BRAEMAR BUILDING SYSTEMS INC. IS NOT RESPONSIBLE FOR THE THERMAL DESIGN OF BUILDING ENVELOPE.

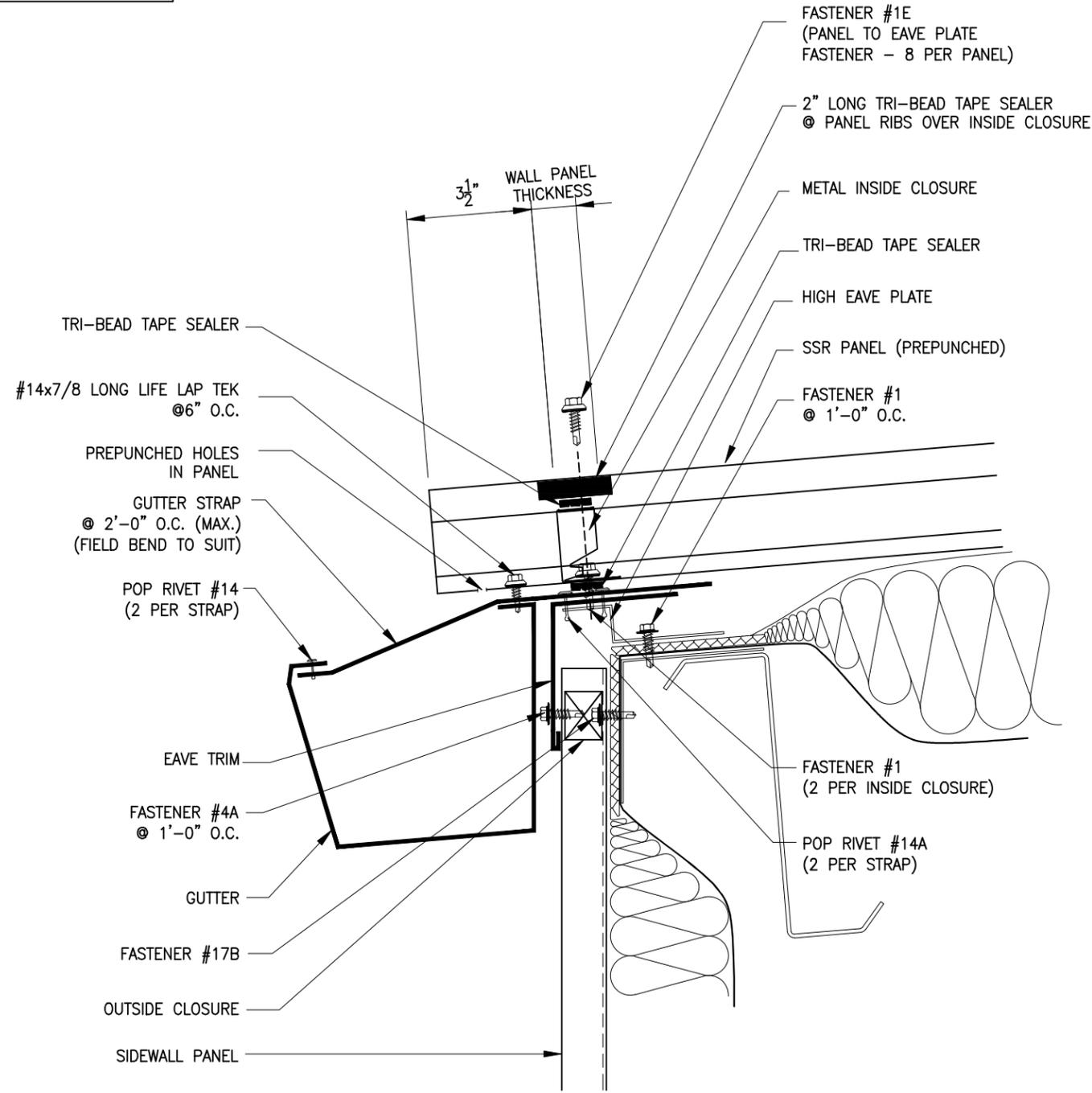


925 WEST KENYON AVENUE  
ENGLEWOOD, CO. 80110  
1-888-480-5552  
  
3149 HALDIMAND ROAD 9  
YORK, ONTARIO N0A 1R0  
1-866-382-5115

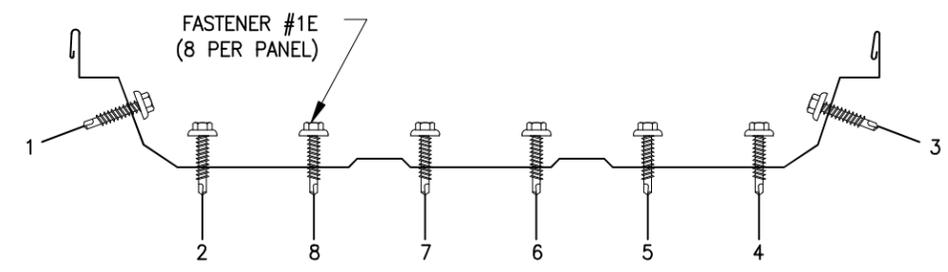
**TYPICAL STANDING SEAM  
DETAILS**

SHEET: D8

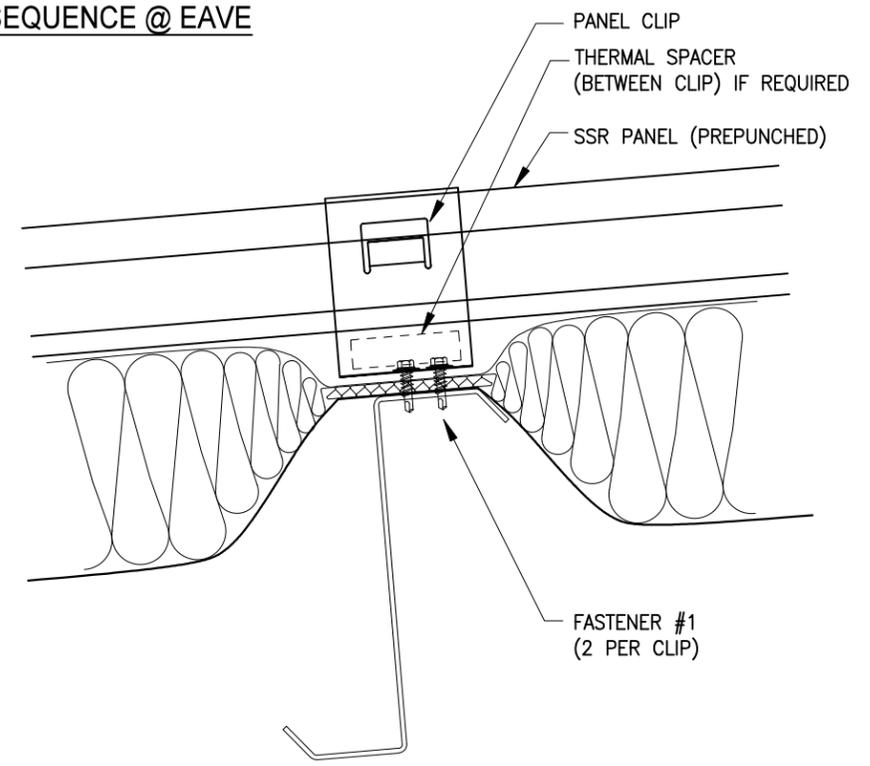
**NOTE**  
MINOR RIB TAPE SEALER  
AT ALL MINOR RIBS



**EAVE SNOW GUTTER (HIGH)  
(ALTERNATE)**



**FASTENER SEQUENCE @ EAVE**



**INTERMEDIATE CLIP**



EXPIRES: 06/2024

**REVIEWED**  
By Richard T Smith at 5:25 pm, Sep 25, 2023

NOTES: 1) ROOF SCREWS ARE 1 1/2" LONG IF INSULATION IS EQUAL TO OR GREATER THAN 6". WALL SCREWS ARE 2" LONG IF INSULATION THICKNESS IS EQUAL TO OR GREATER THAN 6".  
2) PROCEDURES FOR PROPER INSULATION INSTALLATION ARE NOT BY BRAEMAR

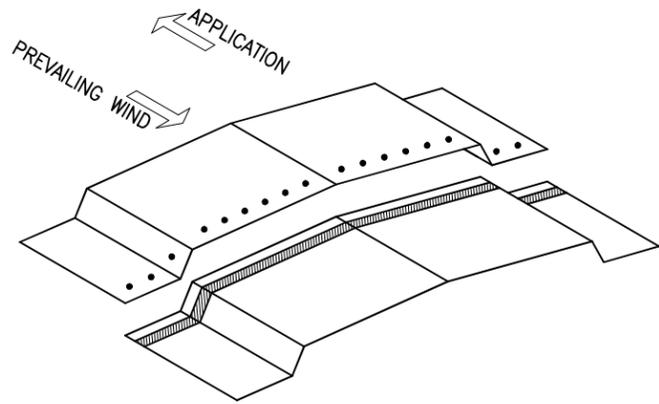
3) INSTALLER OF INSULATION IS RESPONSIBLE FOR PROVIDING A CONTINUOUS THERMAL BARRIER.  
4) BRAEMAR BUILDING SYSTEMS INC. IS NOT RESPONSIBLE FOR THE THERMAL DESIGN OF BUILDING ENVELOPE.



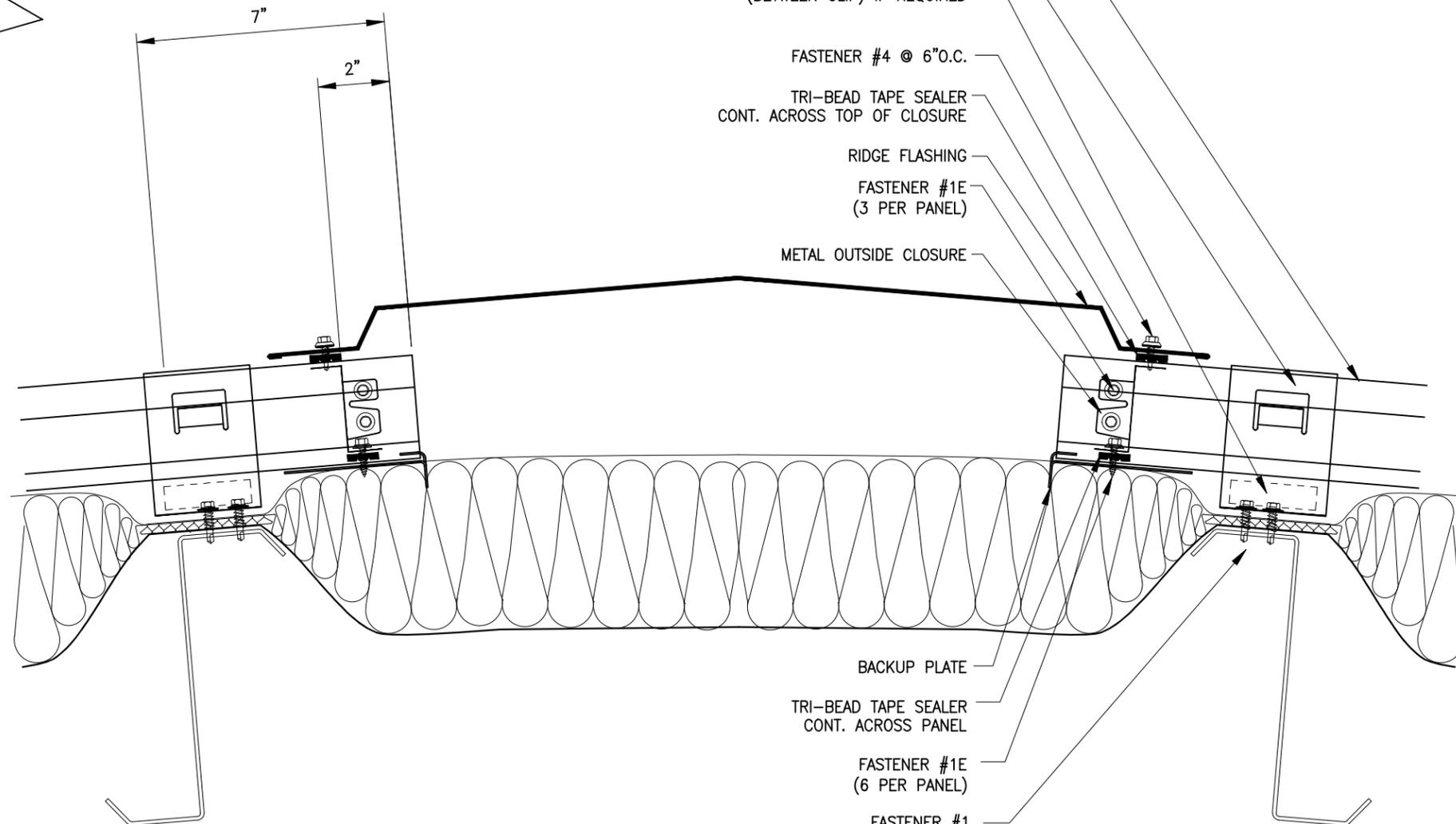
925 WEST KENYON AVENUE  
ENGLEWOOD, CO. 80110  
1-888-480-5552  
3149 HALDIMAND ROAD 9  
YORK, ONTARIO N0A 1R0  
1-866-382-5115

**TYPICAL STANDING SEAM  
DETAILS**

SHEET: D8-2



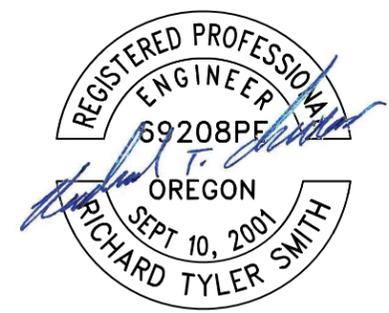
**IMPORTANT NOTE:**  
 INSTALL TAPE SEALER AT  
 RIDGE FLASHING ENDLAPS  
 WITH POP RIVET #14



- SSR PANEL (PREPUNCHED)
- PANEL CLIP
- THERMAL SPACER  
(BETWEEN CLIP) IF REQUIRED
- FASTENER #4 @ 6"O.C.
- TRI-BEAD TAPE SEALER  
CONT. ACROSS TOP OF CLOSURE
- RIDGE FLASHING
- FASTENER #1E  
(3 PER PANEL)
- METAL OUTSIDE CLOSURE

- BACKUP PLATE
- TRI-BEAD TAPE SEALER  
CONT. ACROSS PANEL
- FASTENER #1E  
(6 PER PANEL)
- FASTENER #1  
(2 PER CLIP)

RIDGE



EXPIRES: 06/2024  
**REVIEWED**  
 By Richard T Smith at 5:25 pm, Sep 25, 2023

NOTES: 1) ROOF SCREWS ARE 1 1/2" LONG IF INSULATION IS EQUAL TO OR GREATER THAN 6". WALL SCREWS ARE 2" LONG IF INSULATION THICKNESS IS EQUAL TO OR GREATER THAN 6".  
 2) PROCEDURES FOR PROPER INSULATION INSTALLATION ARE NOT BY BRAEMAR

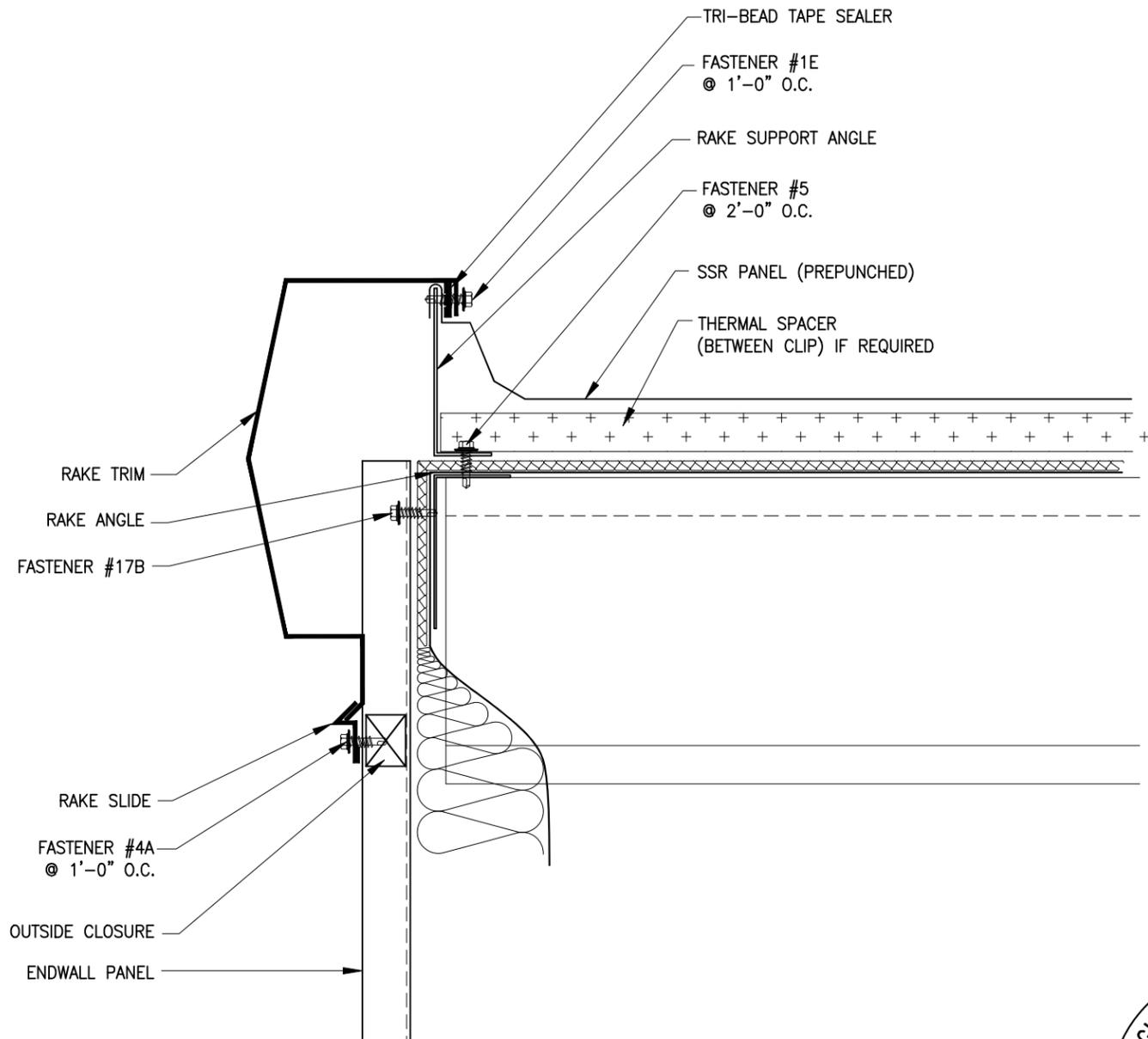
3) INSTALLER OF INSULATION IS RESPONSIBLE FOR PROVIDING A CONTINUOUS THERMAL BARRIER.  
 4) BRAEMAR BUILDING SYSTEMS INC. IS NOT RESPONSIBLE FOR THE THERMAL DESIGN OF BUILDING ENVELOPE.



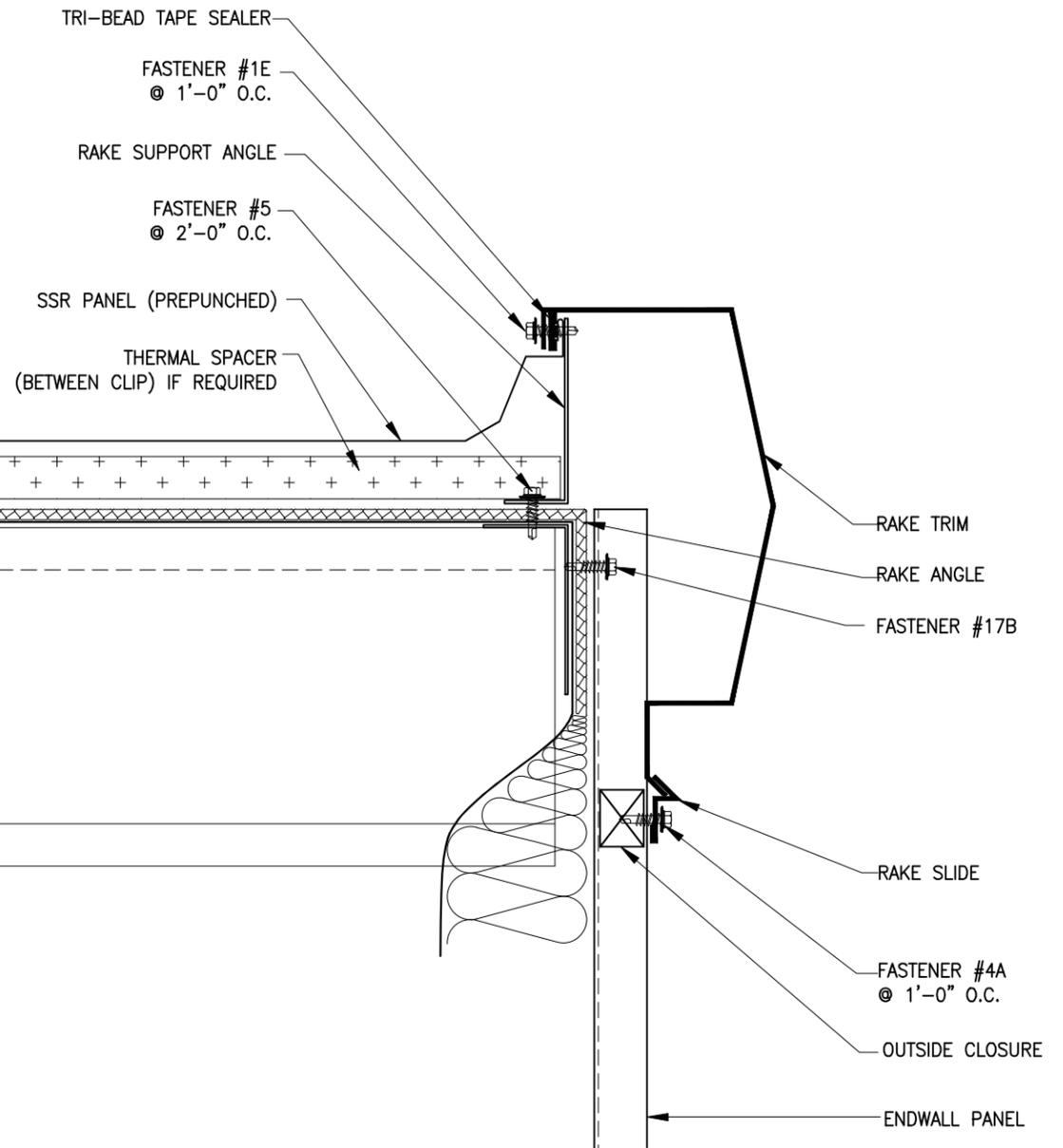
925 WEST KENYON AVENUE  
 ENGLEWOOD, CO. 80110  
 1-888-480-5552  
 3149 HALDIMAND ROAD 9  
 YORK, ONTARIO N0A 1R0  
 1-866-382-5115

TYPICAL STANDING SEAM  
 DETAILS

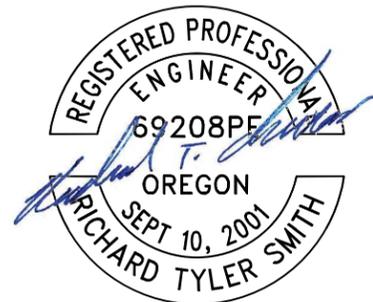
SHEET: D8A



**BEGINNING RAKE**



**TERMINATING RAKE**



EXPIRES: 06/2024

**REVIEWED**  
By Richard T Smith at 5:25 pm, Sep 25, 2023

NOTES: 1) ROOF SCREWS ARE 1 1/2" LONG IF INSULATION IS EQUAL TO OR GREATER THAN 6". WALL SCREWS ARE 2" LONG IF INSULATION THICKNESS IS EQUAL TO OR GREATER THAN 6".  
2) PROCEDURES FOR PROPER INSULATION INSTALLATION ARE NOT BY BRAEMAR

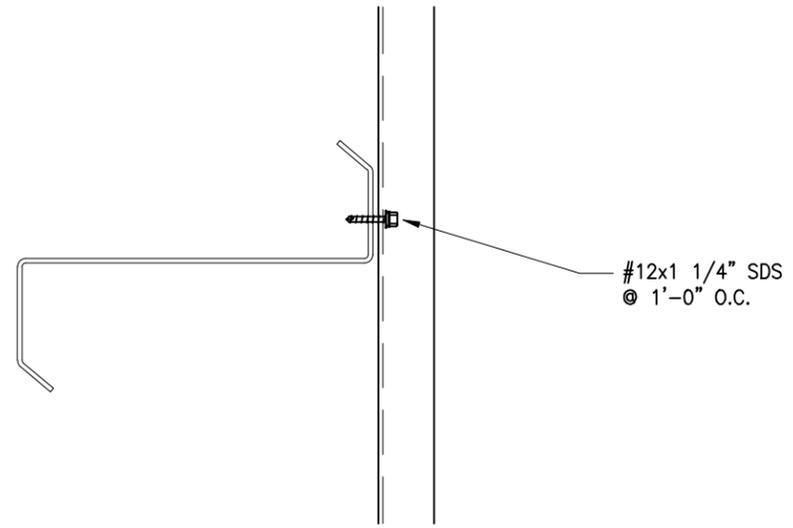
3) INSTALLER OF INSULATION IS RESPONSIBLE FOR PROVIDING A CONTINUOUS THERMAL BARRIER.  
4) BRAEMAR BUILDING SYSTEMS INC. IS NOT RESPONSIBLE FOR THE THERMAL DESIGN OF BUILDING ENVELOPE.



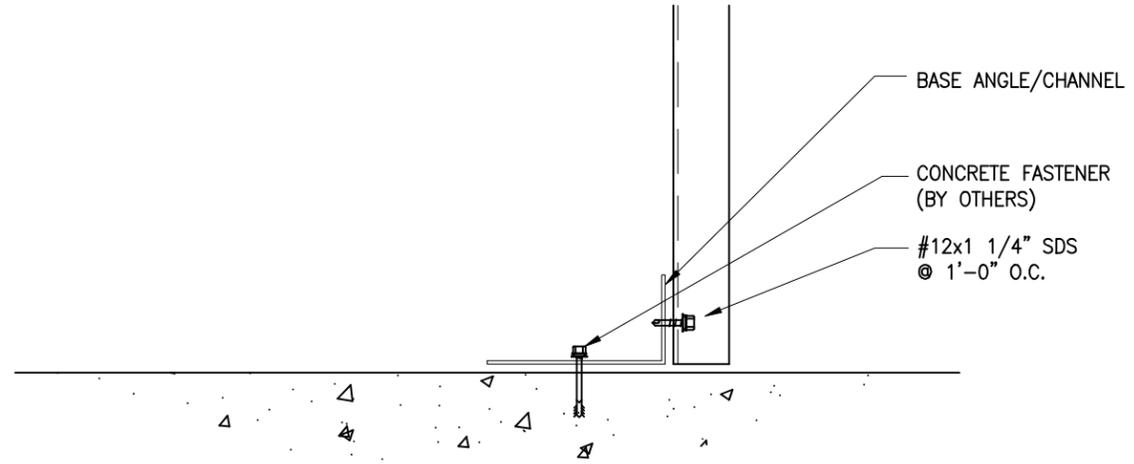
925 WEST KENYON AVENUE  
ENGLEWOOD, CO. 80110  
1-888-480-5552  
  
3149 HALDIMAND ROAD 9  
YORK, ONTARIO N0A 1R0  
1-866-382-5115

**TYPICAL STANDING SEAM DETAILS**

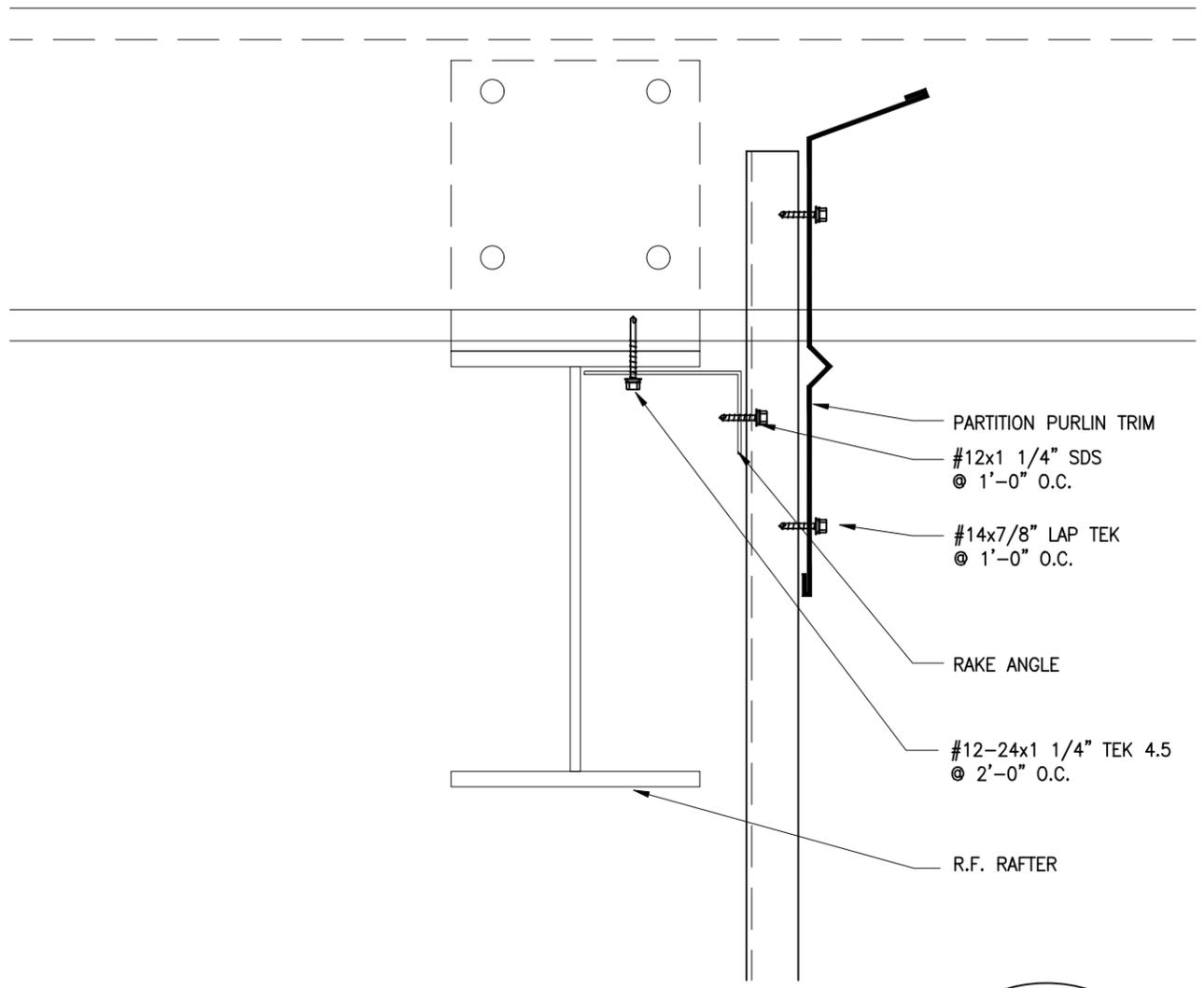
SHEET: D8B



PARTITION GIRT



PARTITION BASE



TOP OF PARTITION  
(AT FRAME LINE)



EXPIRES: 06/2024  
**REVIEWED**  
By Richard T Smith at 5:25 pm, Sep 25, 2023

INSULATION NOT SHOWN FOR CLARITY

- NOTES: 1) ROOF SCREWS ARE 1 1/2" LONG IF INSULATION IS EQUAL TO OR GREATER THAN 6". WALL SCREWS ARE 2" LONG IF INSULATION THICKNESS IS EQUAL TO OR GREATER THAN 6".
- 2) PROCEDURES FOR PROPER INSULATION INSTALLATION ARE NOT BY BRAEMAR

- 3) INSTALLER OF INSULATION IS RESPONSIBLE FOR PROVIDING A CONTINUOUS THERMAL BARRIER.
- 4) BRAEMAR BUILDING SYSTEMS INC. IS NOT RESPONSIBLE FOR THE THERMAL DESIGN OF BUILDING ENVELOPE.

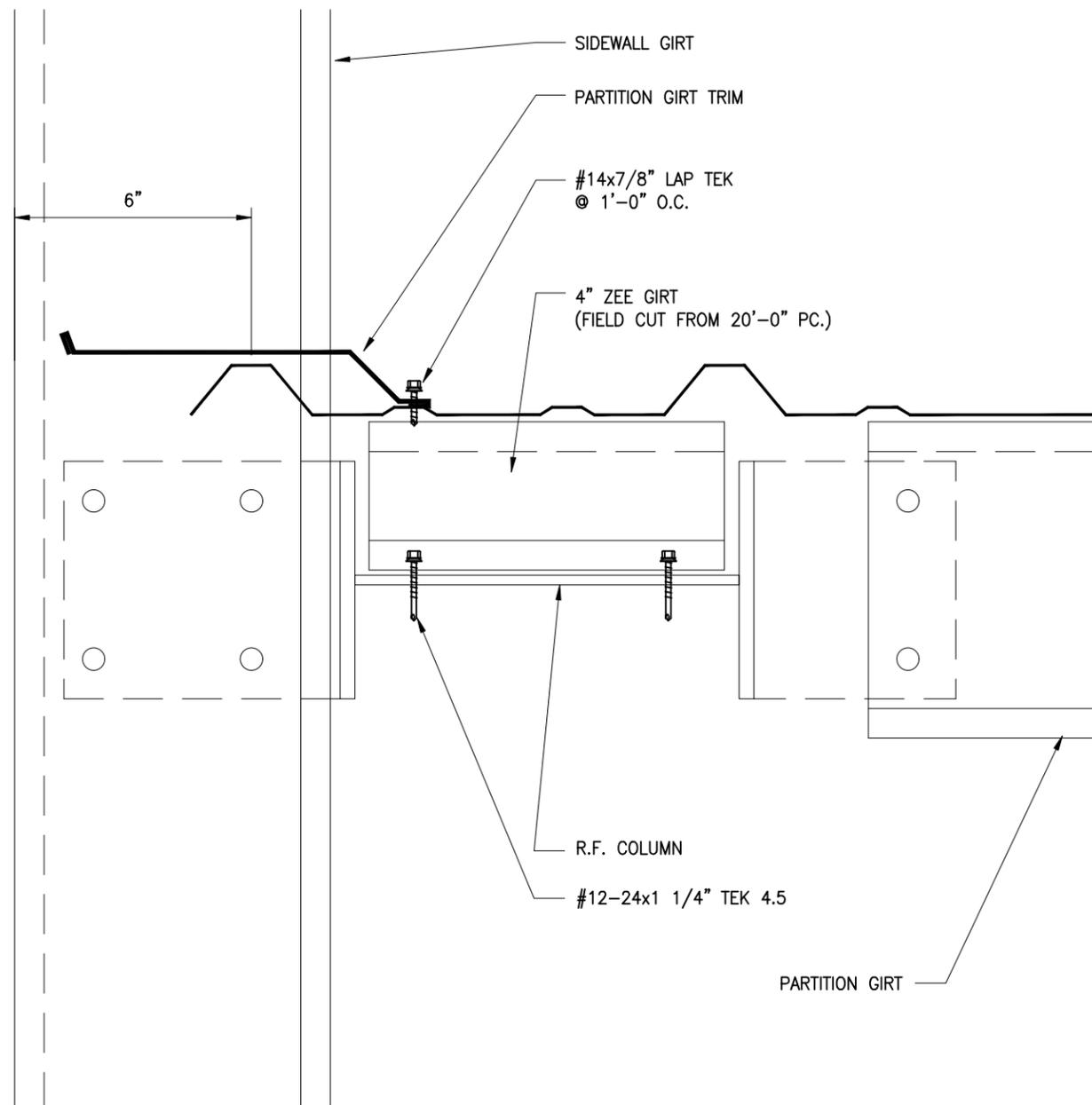


925 WEST KENYON AVENUE  
ENGLEWOOD, CO. 80110  
1-888-480-5552

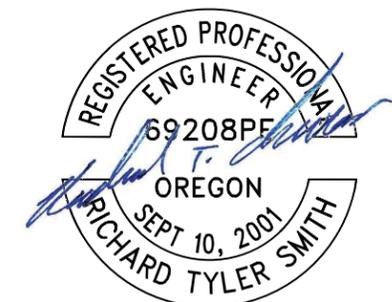
3149 HALDIMAND ROAD 9  
YORK, ONTARIO N0A 1R0  
1-866-382-5115

TYPICAL PARTITION  
DETAILS

SHEET: D9



**PARTITION TO SIDEWALL  
(AT FRAME LINE)**



EXPIRES: 06/2024

**REVIEWED**  
By Richard T Smith at 5:25 pm, Sep 25, 2023

NOTES: 1) ROOF SCREWS ARE 1 1/2" LONG IF INSULATION IS EQUAL TO OR GREATER THAN 6". WALL SCREWS ARE 2" LONG IF INSULATION THICKNESS IS EQUAL TO OR GREATER THAN 6".

2) PROCEDURES FOR PROPER INSULATION INSTALLATION ARE NOT BY BRAEMAR

3) INSTALLER OF INSULATION IS RESPONSIBLE FOR PROVIDING A CONTINUOUS THERMAL BARRIER.

4) BRAEMAR BUILDING SYSTEMS INC. IS NOT RESPONSIBLE FOR THE THERMAL DESIGN OF BUILDING ENVELOPE.



925 WEST KENYON AVENUE  
ENGLEWOOD, CO. 80110  
1-888-480-5552

3149 HALDIMAND ROAD 9  
YORK, ONTARIO N0A 1R0  
1-866-382-5115

**TYPICAL PARTITION  
DETAILS**

SHEET: D9A

# JEWELL SUBSTATION



| Sheet Number | Sheet Name          |
|--------------|---------------------|
| -            | COVER               |
| S100         | FOUNDATION          |
| S101         | FOUNDATION DETAILS  |
| S102         | ANCHOR BOLT DETAILS |

## GENERAL NOTES

- ADHERING TO THE PROCEDURES ESTABLISHED IN THE NOTES BELOW SHALL BE THE GENERAL CONTRACTOR'S (G.C.) RESPONSIBILITY.
- G.C. TO BE LICENSED TO WORK IN THE STATE OF OREGON.
- G.C. SHALL NOT DEVIATE FROM THE ENGINEER'S CONTRACT DOCUMENTS UNLESS APPROVED BY THE ENGINEER'S OFFICE.
- G.C. SHALL VERIFY ALL DIMENSIONS IN FIELD PRIOR TO CONSTRUCTION AND SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES BEFORE COMMENCING WORK.
- THE GENERAL CONTRACTOR SHALL NOT PERMIT HIS REPRESENTATIVES TO MEASURE BY SCALE THE ENGINEER'S CONTRACT DOCUMENTS. UNCLEAR DIMENSIONS SHALL BE CLARIFIED BY THE ENGINEER'S OFFICE.
- THE GENERAL CONTRACTOR SHALL NOT SUBSTITUTE SPECIFIED ITEMS OR A DETAILED ASSEMBLY WITHOUT NOTIFYING ENGINEER.
- THE GENERAL CONTRACTOR SHALL REVISE, COORDINATE, AND APPROVE SHOP DRAWINGS WITH THE PARTIES AND TRADES CONCERNED PRIOR TO SUBMITTAL FOR FINAL REVIEW.
- THE SHOP DRAWINGS SUBMITTED BY THE GENERAL CONTRACTOR TO THE ENGINEER'S OFFICE FOR FINAL REVIEW SHALL BE CONSIDERED, AS GENERAL PROCEDURE, TO CLARIFY THE REMARKS FROM THE GENERAL CONTRACTOR'S REPRESENTATIVE. NEVERTHELESS THEY SHALL NEVER INFER A DEVIATION FROM THE ENGINEER'S CONTRACT DOCUMENTS AND/OR A CHANGE IN THE SCOPE OF WORK. THESE CLARIFICATIONS SHALL BE ACCOMPLISHED THROUGH INSTRUCTIONS TO THE GENERAL CONTRACTOR (I.T.C.), REQUESTING A CHANGE ORDER (R.C.O.).
- ALL MATERIALS SHALL BE INSTALLED ACCORDING TO MANUFACTURERS' RECOMMENDED INSTRUCTIONS.

WISNER ENGINEERING, LLC - 1258 SONORA AVE - ASTORIA OREGON

JANUARY 31<sup>ST</sup>, 2024 - ISSUED FOR PERMIT

## STRUCTURAL CODES AND SPECIFICATIONS:

- THE STRUCTURAL PLANS, TO THE BEST OF OUR KNOWLEDGE, COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE 2015 OREGON STRUCTURAL SPECIALTY CODE.
- THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE, AND ALL APPLICABLE FEDERAL AND STATE CODES, STANDARDS, AND LAWS.
- STRUCTURAL CONCRETE: LATEST EDITION OF THE AMERICAN CONCRETE INSTITUTE'S "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 308)".
- MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES WERE BASED ON RECOMMENDATION OF ASCE 7.

## CONSTRUCTION NOTES

- ALL WORK TO CONFORM WITH THE PREVAILING CODES.
- BUILDING AND SURROUNDING SITE SHALL BE KEPT CLEAN AND NEAT AT ALL TIMES.

## DESIGN LOADS & CRITERIA

- THE STRUCTURAL COMPONENTS HAVE BEEN DESIGNED FOR THE FOLLOWING LOADS:
  - FOUNDATION LOADS: LOADS PROVIDED BY PARAMOUNT IRONWORKS LLC
  - SLAB LOADS:
    - SINGLE WHEEL LOAD: 11,000 POUNDS
    - DUAL WHEEL LOAD: 23,000 POUNDS

## GENERAL CONCRETE NOTES

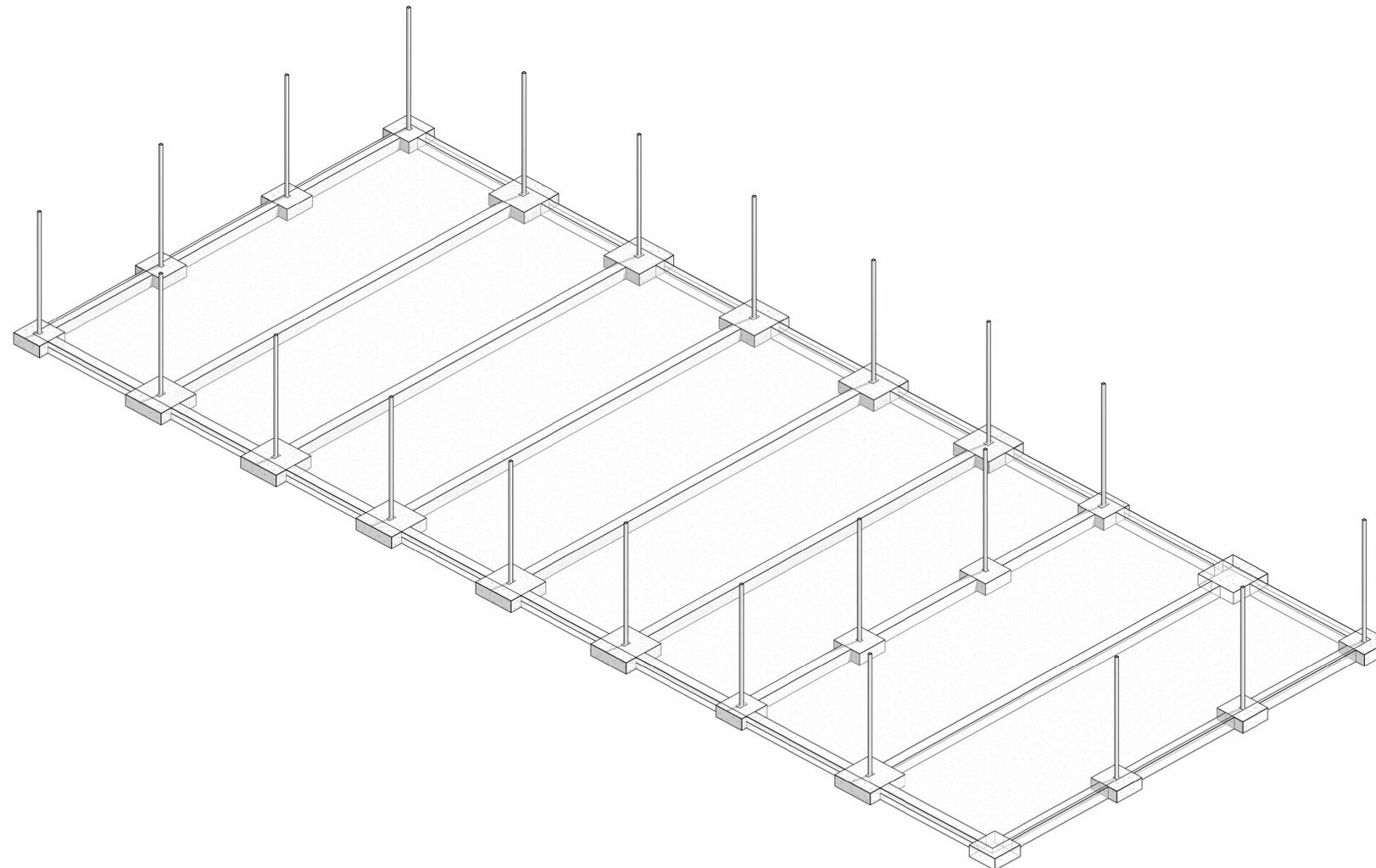
- ANY DISTURBED FOUNDATIONS, WALLS, OR OTHER BEARING STRUCTURES SHALL BE BRACED AND REINFORCED IF MODIFICATION IS NECESSARY. MODIFICATIONS SHALL NOT AFFECT EXISTING BEARING CAPACITY.
- ALL SLABS ON GROUND, FOOTINGS, WALLS, ETC. TO BE STONE CONCRETE 4000 P.S.I. AT 28 DAYS.
- CONTRACTOR SHALL VERIFY DIMENSIONS AND LOCATION OF ALL SLOTS, PIPE SLEEVES, ANCHOR BOLTS, DUCTS, ETC. AS REQUIRED FOR OTHER TRADES BEFORE CONCRETE IS POURED.
- ALL SLOTS SHALL BE FILLED WITH CONCRETE TO THE SAME DEPTH AS SLABS AFTER PIPING IS INSTALLED.
- CONTRACTOR SHALL SAFEGUARD AND PROTECT ALL EXCAVATIONS.

## FOUNDATION NOTES:

- BUILDING FOUNDATIONS SHALL BEAR ON UNDISTURBED SOIL OR LEDGE HAVING MINIMUM BEARING CAPACITY OF 1500 POUNDS PER SQUARE FOOT.
- IF AN UNSUITABLE SOIL WILL BE DISCOVERED IN THE AREA UNDERNEATH OF THE NEW FOOTINGS (ORGANICS, LOOSE FILL, AND ETC.), SOIL SHALL BE REPLACED WITH COMPACTED FILL OF GRAVEL OR CRASHED STONE. PLACE BACKFILL IN LIFTS NOT EXCEEDING 9" IN LOOSE LIFT THICKNESS. NOTIFY THE ENGINEER BEFORE PROCEEDING WITH STRUCTURAL BACKFILL TO CONFIRM SUITABILITY OF BEARING STRATUM. FOUNDATION BACKFILL MATERIAL IS TO BE CONTROLLED FILL MATERIAL, A UNIFORMLY GRADED MIXTURE OF SAND AND GRAVEL WEIGHING NO LESS THAN 120 PCF DRY DENSITY AFTER ON-SITE COMPACTION. THE MIXTURE IS TO HAVE NO STONE GREATER THAN 3" ANY ONE DIMENSION AND IS TO HAVE LESS THAN 10 %, BY WEIGHT, PASSING A #200 SIEVE. THE FILL SHALL BE PLACED IN MAXIMUM LIFTS OF 8 INCHES BEFORE COMPACTION.

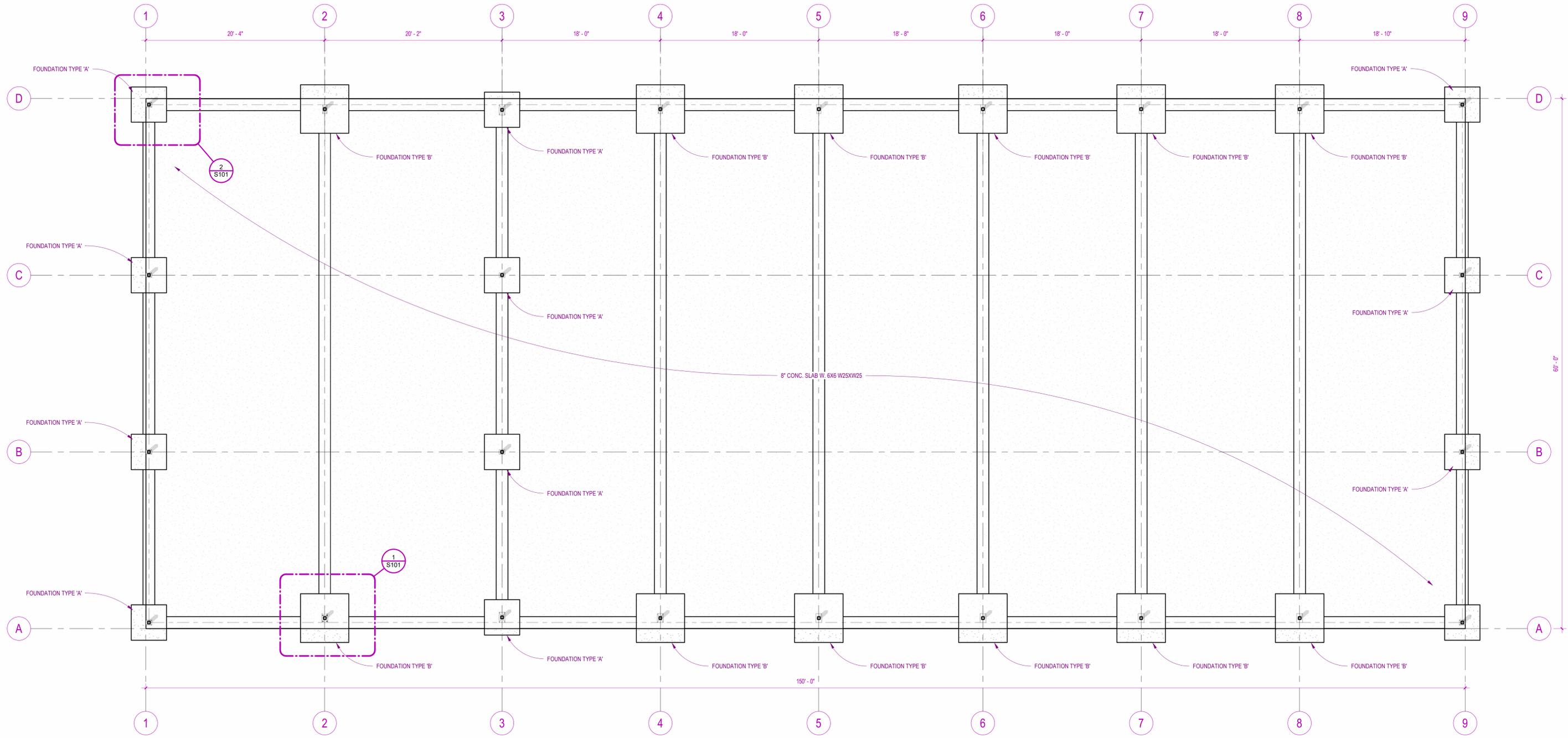
## REINFORCED CONCRETE NOTES:

- ALL CONCRETE SHALL BE NORMAL WEIGHT STONE CONCRETE UNLESS NOTED. THE MAXIMUM SIZE OF THE COARSE AGGREGATE SHALL BE 3/4". THE CONCRETE IS TO BE PROPORTIONED TO HAVE 4" +/- 1" SLUMP AND 5% +/- 1% ENTRAINED AIR. LOW RANGE WATER REDUCING AGENTS ARE PERMITTED. CHLORIDE ION CONTAINING ADDITIVES ARE NOT PERMITTED.
- MINIMUM COMPRESSIVE STRENGTH OF CONCRETE IN 28 DAYS SHALL BE AS FOLLOWS:  
F<sub>c</sub> = 4,000 PSI
- ALL REINFORCING STEEL SHALL CONFORM TO ASTM STANDARD SPECIFICATION FOR DEFORMED NEW BILLET STEEL BARS FOR CONCRETE REINFORCEMENT A615 GRADE 60. REINFORCEMENT SHALL BE DETAILED ACCORDING TO ACI MANUAL OF STANDARD PRACTICE, ACI 315, LATEST EDITION. ALL REINFORCING BAR SPLICES SHALL BE CLASS "C" TENSION SPLICES, UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM SPECIFICATION A185 WITH A MINIMUM ULTIMATE STRENGTH OF 70,000 PSI.
- CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE AS FOLLOWS:  
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH ----- : 3"  
EXPOSED TO EARTH OR WEATHER (WHERE FORMS ARE USED)  
#6 BARS AND LARGER ----- : 2"  
#5 BARS AND SMALLER ----- : 1 1/2"  
NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND  
SLABS OR WALL ----- : 1 1/2"  
BEAMS OR PIERS ----- : 1 1/2"



JEWELL SUBSTATION

ISSUED FOR PERMIT  
1/31/2024



1 FIRST FLOOR PLAN  
3/16" = 1'-0"



FOUNDATION

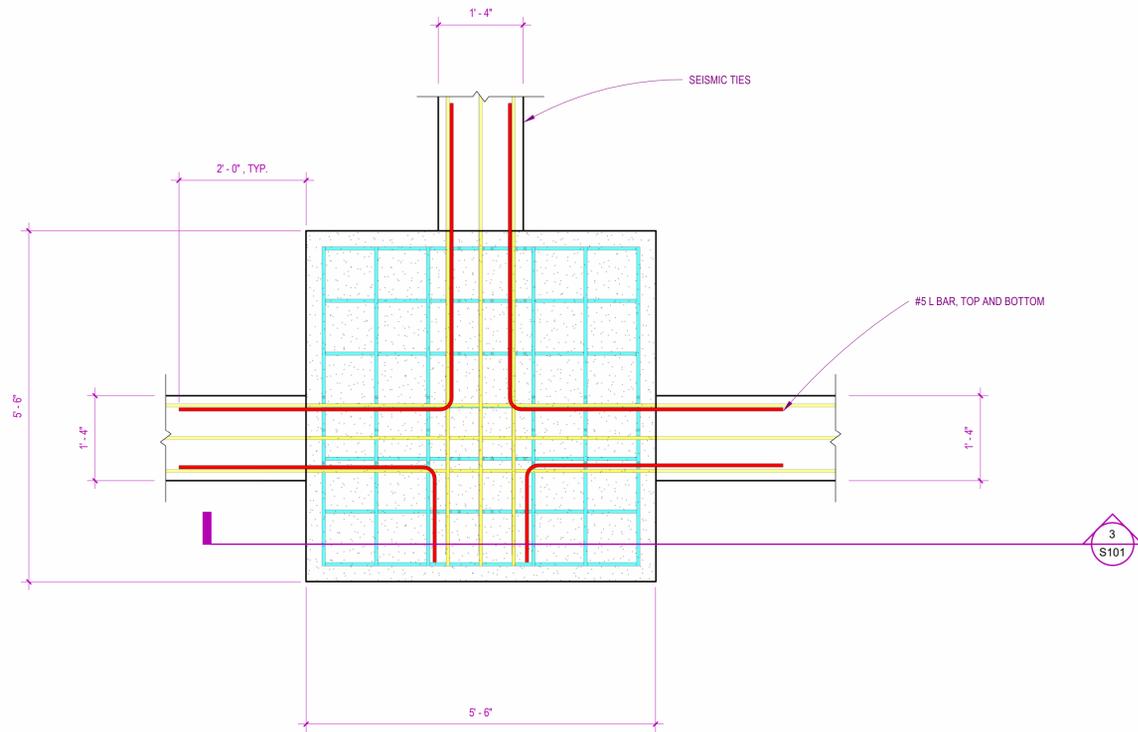
Drawn By: BRIAN WISNER, PE  
Scale: 3/16" = 1'-0"  
Project #: C8601



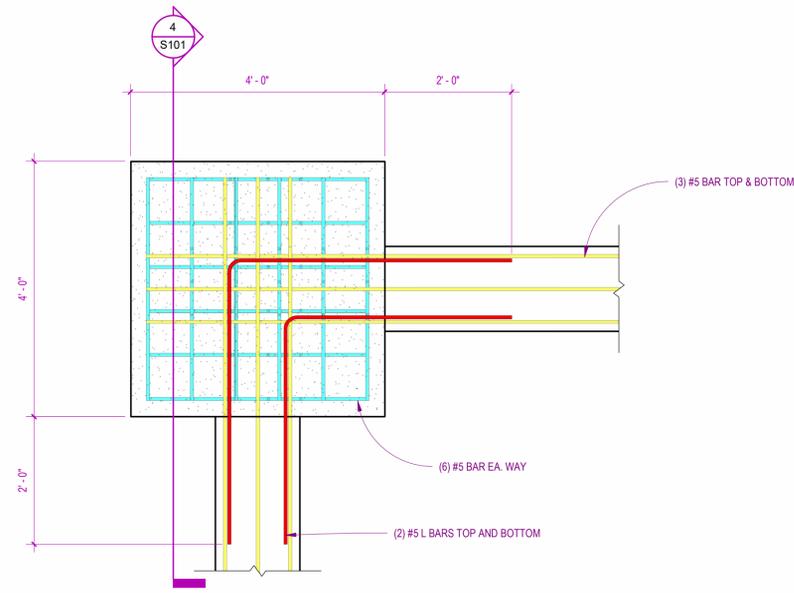
| Rev | Description | Date |
|-----|-------------|------|
|     |             |      |
|     |             |      |
|     |             |      |

CLATSOP COUNTY  
JEWELL SUBSTATION

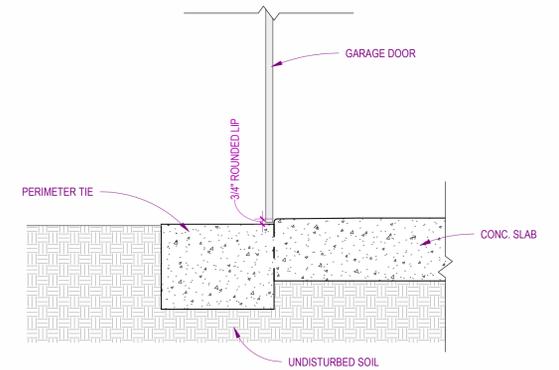
S100



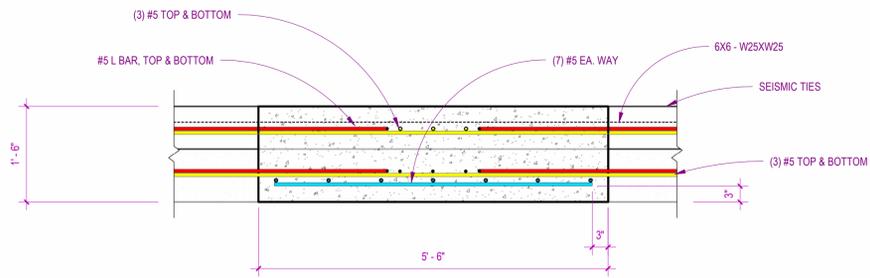
1 TYPE 'B' FOUNDATION  
3/4" = 1'-0"



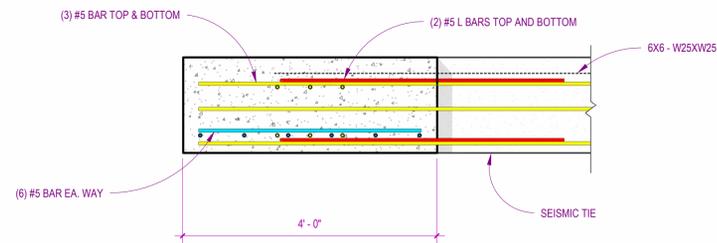
2 TYPE 'A' FOUNDATION  
3/4" = 1'-0"



5 GARAGE DOOR RAIN GUARD  
1" = 1'-0"



3 Section 3  
3/4" = 1'-0"



4 Section 4  
3/4" = 1'-0"



FOUNDATION  
DETAILS

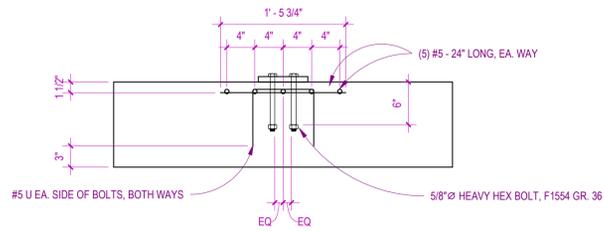
Drawn By: BRIAN WISNER, PE  
Scale: As indicated  
Project #: C8601



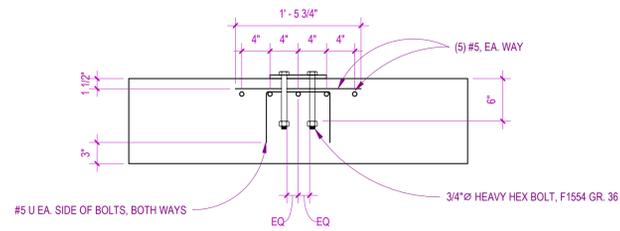
| Rev | Description | Date |
|-----|-------------|------|
|     |             |      |
|     |             |      |
|     |             |      |

CLATSOP COUNTY  
JEWELL SUBSTATION

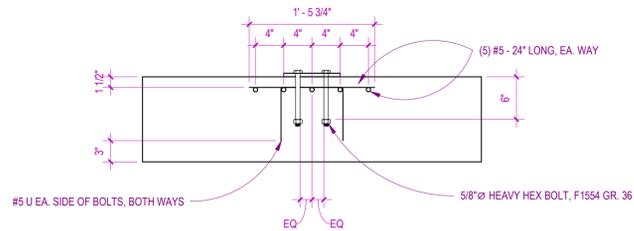
S101



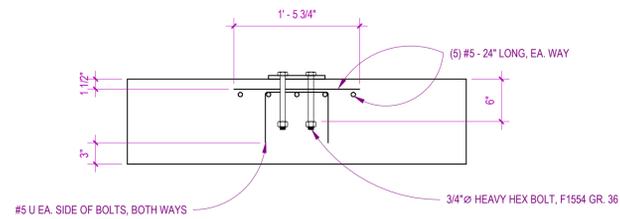
1 Base plate A  
1" = 1'-0"



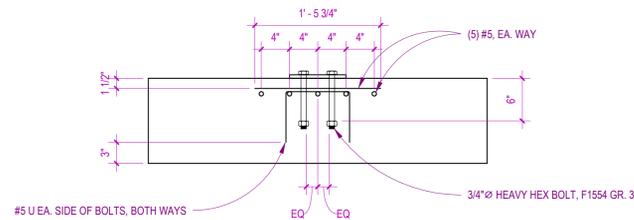
4 Base plate D  
1" = 1'-0"



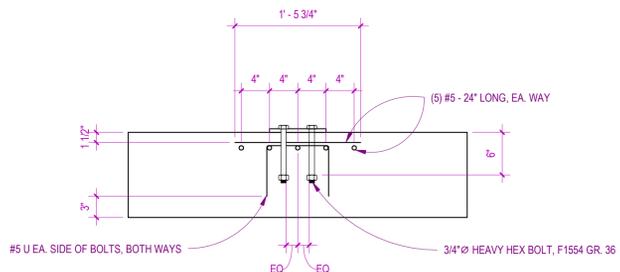
2 Base plate B  
1" = 1'-0"



5 Base plate E  
1" = 1'-0"



3 Base plate C  
1" = 1'-0"



6 Base plate G  
1" = 1'-0"

**NOTE:**  
REINFORCEMENT SHOWN ON THIS PAGE IS FOR ANCHORAGE ONLY. FOUNDATION REBAR NOT SHOWN FOR CLARITY.



**ANCHOR BOLT  
DETAILS**

Drawn By: BRIAN WISNER, PE

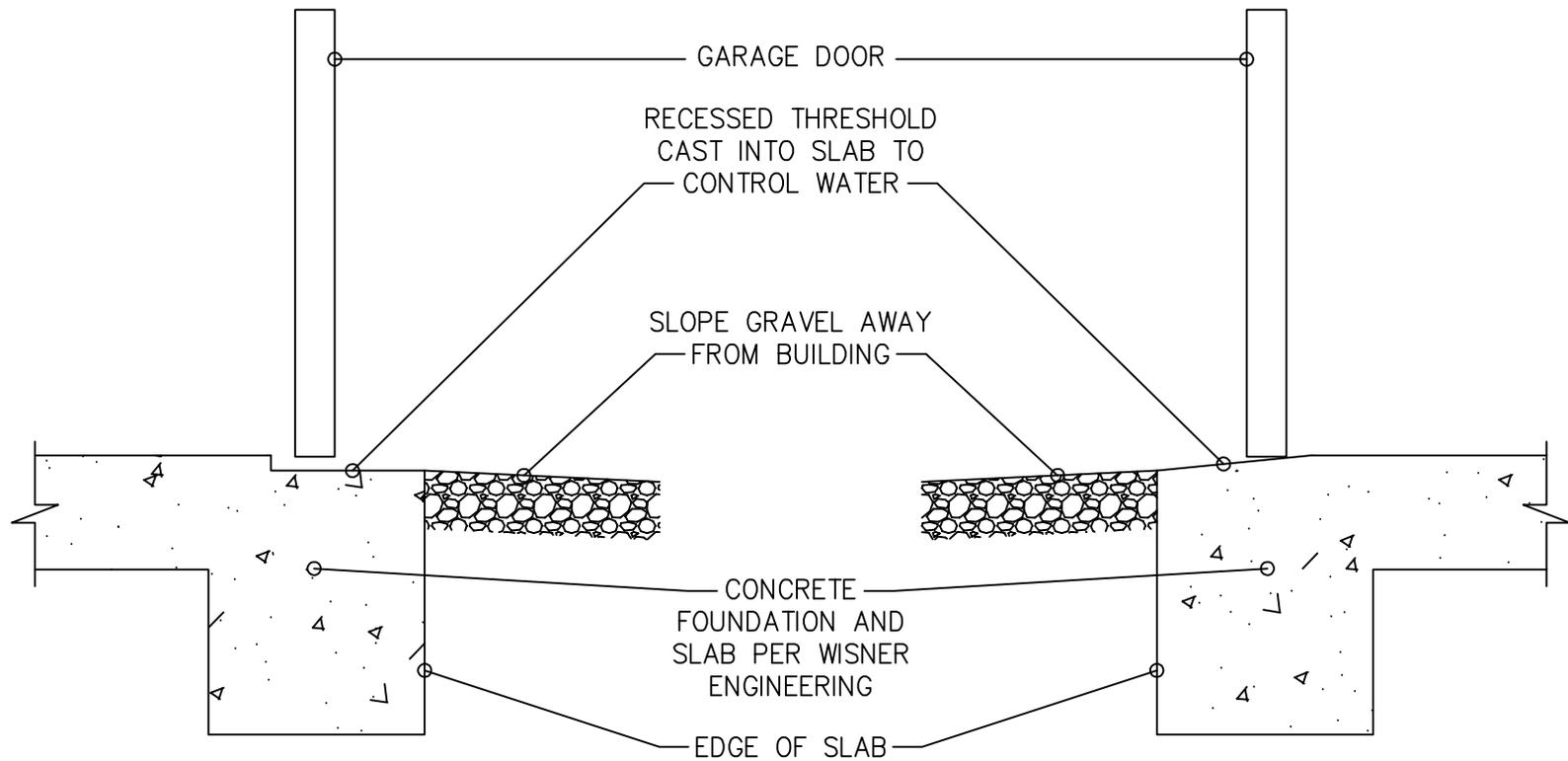
Scale: 1" = 1'-0"  
Project #: C8601



| Rev | Description | Date |
|-----|-------------|------|
|     |             |      |
|     |             |      |
|     |             |      |

CLATSOP COUNTY  
JEWELL SUBSTATION

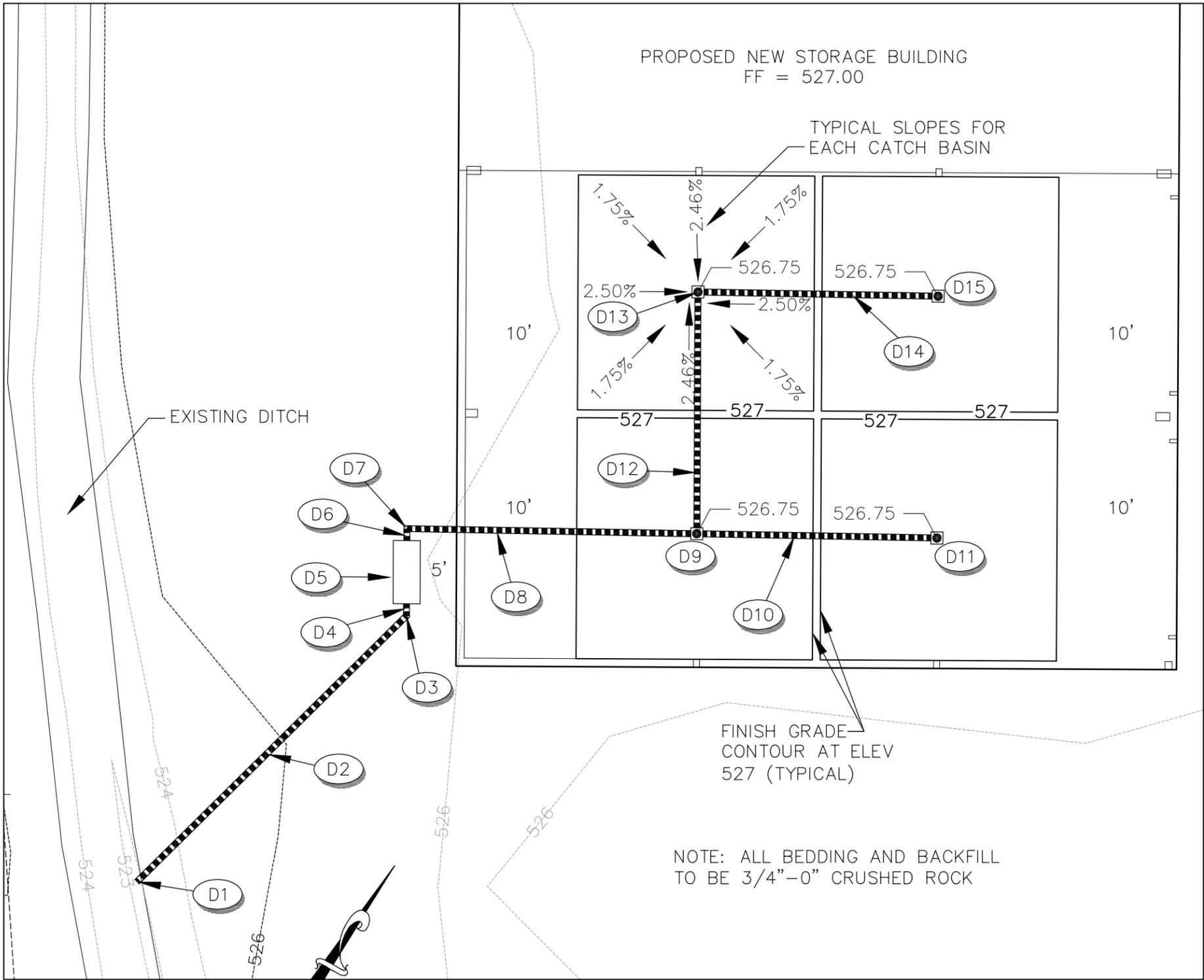
**S102**



OPTION A

OPTION B

RECESSED THRESHOLD  
AT GARAGE DOOR



| STORM PIPE AND STRUCTURE TABLE |  |
|--------------------------------|--|
| NUMBER                         | DESCRIPTION  |
| D1                             | 6" OUTFALL TO EXIST DITCH. IE= 523.00  |
| D2                             | 31 LF X 6" ASTM 3034 SDR 35 PVC @ 2.0%   |
| D3                             | 6" 45° BEND. IE= 523.6   |
| D4                             | 1 LF X 6" ASTM 3034 SDR 35 PVC @ 2.0%  |
| D5                             | INSTALL 253-SA OIL WATER SEPARATOR PER DETAIL WITH RISERS AS REQUIRED. RIM = 526.3. IE 6" OUT = 523.6. IE 6" IN = 523.7. |
| D6                             | 1 LF X 6" ASTM 3034 SDR 35 PVC @ 2.0%  |
| D7                             | 6" 90° BEND. IE= 523.7   |
| D8                             | 24 LF X 6" ASTM 3034 SDR 35 PVC @ 2.0%   |
| D9                             | INSTALL 12" NYOPLAST DRAIN BASIN WITH DUCTILE IRON FRAME AND GRATE. RIM = 526.75. IE 6" OUT = 524.2. IE 6" IN = 524.2.   |
| D10                            | 20 LF X 6" ASTM 3034 SDR 35 PVC @ 2.0%   |
| D11                            | INSTALL 12" NYOPLAST DRAIN BASIN WITH DUCTILE IRON FRAME AND GRATE. RIM = 526.75. IE 6" OUT = 524.6. IE 6" IN = 524.6.   |
| D12                            | 20 LF X 6" ASTM 3034 SDR 35 PVC @ 2.0%   |
| D13                            | INSTALL 12" NYOPLAST DRAIN BASIN WITH DUCTILE IRON FRAME AND GRATE. RIM = 526.75. IE 6" OUT = 524.6. IE 6" IN = 524.6.   |
| D14                            | 20 LF X 6" ASTM 3034 SDR 35 PVC @ 2.0%   |
| D15                            | INSTALL 12" NYOPLAST DRAIN BASIN WITH DUCTILE IRON FRAME AND GRATE. RIM = 526.75. IE 6" OUT = 525.0.                     |

**LEGEND**

- - - - - 100 - - - - - EXISTING GROUND CONTOUR  
 ———— 100 ———— FINISH GRADE CONTOUR  
 - - - - - PROPOSED STORM LINE  
 □ PROPOSED CATCH BASIN  
 ← 1.00% PROPOSED SLOPE  
 ● 100.00 PROPOSED SPOT ELEV

0 5 10 20  
**GRAPHIC SCALE**  
 1 inch = 10 ft.

**JEWELL STORAGE BUILDING**  
**GRADING AND DRAINAGE FOR SOUTH BAYS**

|                                      |              |           |             |
|--------------------------------------|--------------|-----------|-------------|
| LOCATION:                            |              | SHEET     | OF          |
| 79532 HIGHWAY 202<br>SEASIDE, OREGON |              | 1         | 1           |
| PROJECT NUMBER:                      | DATE:        | DRAWN BY: | CHECKED BY: |
| --                                   | MAR 20, 2024 | DLK       | TLH         |

**REGISTERED PROFESSIONAL ENGINEER**  
 51518PE  
 OREGON  
 JULY 11, 2000  
 DEAN L. KERANEN  
 EXPIRES: 06/30/25

# NYLOPLAST 12" DRAIN BASIN: 2812AG \_\_ X

(1, 2) INTEGRATED DUCTILE IRON FRAME & GRATE TO MATCH BASIN O.D.

(3) VARIABLE INVERT HEIGHTS AVAILABLE (ACCORDING TO PLANS/TAKE OFF)

MINIMUM PIPE BURIAL DEPTH PER PIPE MANUFACTURER RECOMMENDATION (MIN. MANUFACTURING REQ. SAME AS MIN. SUMP)

(5) ADAPTER ANGLES VARIABLE 0° - 360° ACCORDING TO PLANS

18" MIN WIDTH GUIDELINE

8" MIN THICKNESS GUIDELINE

TRAFFIC LOADS: CONCRETE SLAB DIMENSIONS ARE FOR GUIDELINE PURPOSES ONLY. ACTUAL CONCRETE SLAB MUST BE DESIGNED TAKING INTO CONSIDERATION LOCAL SOIL CONDITIONS, TRAFFIC LOADING, & OTHER APPLICABLE DESIGN FACTORS. SEE DRAWING NO. 7001-110-111 FOR NON TRAFFIC INSTALLATION.

(3) VARIABLE SUMP DEPTH ACCORDING TO PLANS (6" MIN. BASED ON MANUFACTURING REQ.)

WATERTIGHT JOINT (CORRUGATED HDPE SHOWN)



(4) VARIOUS TYPES OF INLET & OUTLET ADAPTERS AVAILABLE: 4" - 12" FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL, ADS/HANCOR SINGLE WALL), N-12 HP, PVC SEWER (EX: SDR 35), PVC DWV (EX: SCH 40), PVC C900/C905, CORRUGATED & RIBBED PVC

THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS I, CLASS II, OR CLASS III MATERIAL AS DEFINED IN ASTM D2321.

BEDDING & BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321.

| GRATE OPTIONS     | LOAD RATING | PART #   | DRAWING #    |
|-------------------|-------------|----------|--------------|
| PEDESTRIAN        | MEETS H-10  | 1299CGP  | 7001-110-202 |
| STANDARD          | MEETS H-20  | 1299CGS  | 7001-110-203 |
| SOLID COVER       | MEETS H-20  | 1299CGC  | 7001-110-204 |
| PEDESTRIAN BRONZE | N/A         | 1299CGPB | 7001-110-205 |
| DOMED             | N/A         | 1299CGD  | 7001-110-206 |
| DROP IN GRATE     | LIGHT DUTY  | 1201DI   | 7001-110-021 |

- 1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05, WITH THE EXCEPTION OF THE BRONZE GRATE.
- 2 - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
- 3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065
- 4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER.
- 5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.

THIS PRINT DISCLOSES SUBJECT MATTER IN WHICH NYLOPLAST HAS PROPRIETARY RIGHTS. THE RECEIPT OR POSSESSION OF THIS PRINT DOES NOT CONFER, TRANSFER, OR LICENSE THE USE OF THE DESIGN OR TECHNICAL INFORMATION SHOWN HEREIN REPRODUCTION OF THIS PRINT OR ANY INFORMATION CONTAINED HEREIN, OR MANUFACTURE OF ANY ARTICLE HEREFROM, FOR THE DISCLOSURE TO OTHERS IS FORBIDDEN, EXCEPT BY SPECIFIC WRITTEN PERMISSION FROM NYLOPLAST.

|            |          |                         |
|------------|----------|-------------------------|
| DRAWN BY   | EBC      | MATERIAL                |
| DATE       | 03-29-06 |                         |
| REVISED BY | NMH      | PROJECT NO./NAME        |
| DATE       | 03-11-16 |                         |
| DWG SIZE   | A        | SCALE 1:20 SHEET 1 OF 1 |



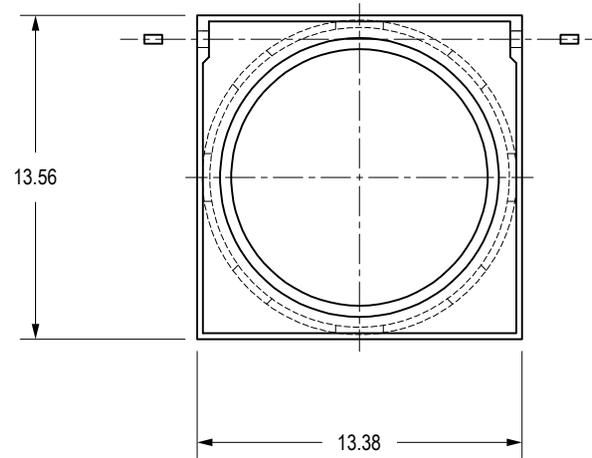
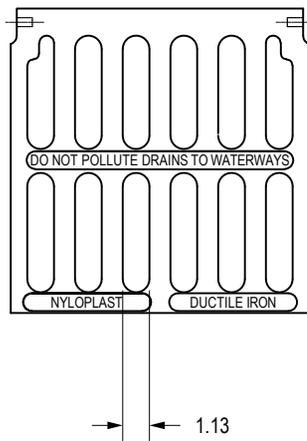
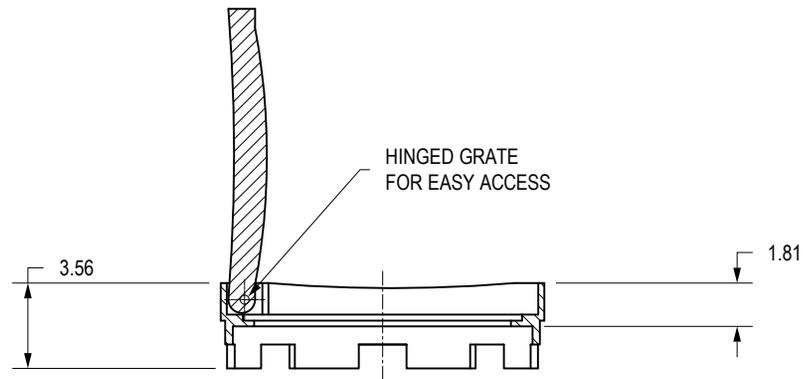
**ADS**  
Nyloplast

3130 VERONA AVE  
BUFORD, GA 30518  
PHN (770) 932-2443  
FAX (770) 932-2490  
www.nyloplast-us.com

|  |                    |
|--|--------------------|
| TITLE  |                    |
| 12 IN DRAIN BASIN QUICK SPEC INSTALLATION DETAIL |                    |
| DWG NO.  | 7001-110-189 REV E |

# 1299CGS

APPROX. DRAIN AREA = 60.62 SQ IN  
 APPROX. WEIGHT WITH FRAME = 40.68 LBS



DIMENSIONS ARE FOR REFERENCE ONLY  
 ACTUAL DIMENSIONS MAY VARY  
 DIMENSIONS ARE IN INCHES  
 GRATE MEETS H-20 LOAD RATING  
 QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05  
 PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT  
 LOCKING DEVICE AVAILABLE UPON REQUEST SEE DRAWING NO.  
 7001-110-035

THIS PRINT DISCLOSES SUBJECT MATTER IN WHICH NYLOPLAST HAS PROPRIETARY RIGHTS. THE RECEIPT OR POSSESSION OF THIS PRINT DOES NOT CONFER, TRANSFER, OR LICENSE THE USE OF THE DESIGN OR TECHNICAL INFORMATION SHOWN HEREIN REPRODUCTION OF THIS PRINT OR ANY INFORMATION CONTAINED HEREIN, OR MANUFACTURE OF ANY ARTICLE HEREFROM, FOR THE DISCLOSURE TO OTHERS IS FORBIDDEN, EXCEPT BY SPECIFIC WRITTEN PERMISSION FROM NYLOPLAST.

|            |          |                        |
|------------|----------|------------------------|
| DRAWN BY   | EBC      | MATERIAL               |
| DATE       | 03-03-06 | DUCTILE IRON           |
| REVISED BY | CCA      | PROJECT NO./NAME       |
| DATE       | 08-28-13 |                        |
| DWG SIZE   | A        | SCALE 1:8 SHEET 1 OF 1 |

|         |   |
|---------|---|
|         | 3130 VERONA AVE<br>BUFORD, GA 30518<br>PHN (770) 932-2443<br>FAX (770) 932-2490<br>www.nyloplast-us.com |
|         | TITLE<br>12 IN STANDARD GRATE ASSEMBLY  |
| DWG NO. | 7001-110-203 REV D  |

## Section 2721

### Engineered Surface Drainage Products

**GENERAL**

PVC surface drainage inlets shall include the drain basin type as indicated on the contract drawing and referenced within the contract specifications. The ductile iron grates for each of these fittings are to be considered an integral part of the surface drainage inlet and shall be furnished by the same manufacturer. The surface drainage inlets shall be as manufactured by Nyloplast a division of Advanced Drainage Systems, Inc., or prior approved equal.

**MATERIALS**

The drain basins required for this contract shall be manufactured from PVC pipe stock, utilizing a thermoforming process to reform the pipe stock to the specified configuration. The drainage pipe connection stubs shall be manufactured from PVC pipe stock and formed to provide a watertight connection with the specified pipe system. This joint tightness shall conform to ASTM D3212 for joints for drain and sewer plastic pipe using flexible elastomeric seals. The flexible elastomeric seals shall conform to ASTM F477. The pipe bell spigot shall be joined to the main body of the drain basin or catch basin. The raw material used to manufacture the pipe stock that is used to manufacture the main body and pipe stubs of the surface drainage inlets shall conform to ASTM D1784 cell class 12454.

The grates and frames furnished for all surface drainage inlets shall be ductile iron for structure sizes 8", 10", 12", 15", 18", 24", 30" and 36" and shall be made specifically for each basin so as to provide a round bottom flange that closely matches the diameter of the surface drainage inlet. Grates for drain basins shall be capable of supporting various wheel loads as specified by Nyloplast. 12" and 15" square grates will be hinged to the frame using pins. Ductile iron used in the manufacture of the castings shall conform to ASTM A536 grade 70-50-05. Grates and covers shall be provided painted black.

**INSTALLATION**

The specified PVC surface drainage inlet shall be installed using conventional flexible pipe backfill materials and procedures. The backfill material shall be crushed stone or other granular material meeting the requirements of class 1, class 2, or class 3 material as defined in ASTM D2321. Bedding and backfill for surface drainage inlets shall be well placed and compacted uniformly in accordance with ASTM D2321. The drain basin body will be cut at the time of the final grade. No brick, stone or concrete block will be required to set the grate to the final grade height. For load rated installations, a concrete slab shall be poured under and around the grate and frame. The concrete slab must be designed taking into consideration local soil conditions, traffic loading, and other applicable design factors. For other installation considerations such as migration of fines, ground water, and soft foundations refer to ASTM D2321 guidelines.

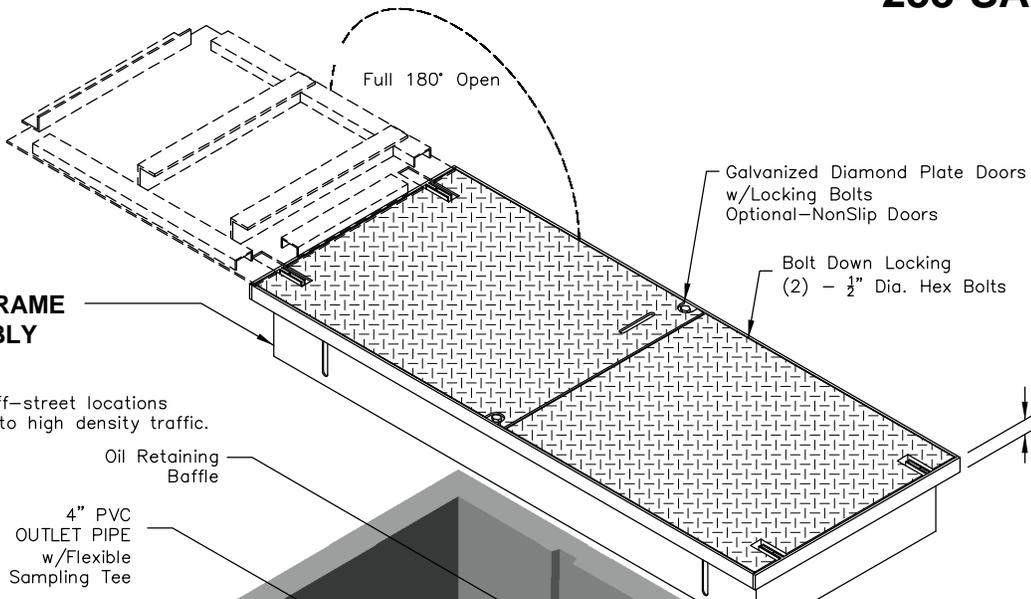
|   |            |          |                  |   |   |   |       |        |         |              |     |
|---|------------|----------|------------------|---|---|---|-------|--------|---------|--------------|-----|
| THIS PRINT DISCLOSES SUBJECT MATTER IN WHICH NYLOPLAST HAS PROPRIETARY RIGHTS. THE RECEIPT OR POSSESSION OF THIS PRINT DOES NOT CONFER, TRANSFER, OR LICENSE THE USE OF THE DESIGN OR TECHNICAL INFORMATION SHOWN HEREIN REPRODUCTION OF THIS PRINT OR ANY INFORMATION CONTAINED HEREIN, OR MANUFACTURE OF ANY ARTICLE HEREFROM, FOR THE DISCLOSURE TO OTHERS IS FORBIDDEN, EXCEPT BY SPECIFIC WRITTEN PERMISSION FROM NYLOPLAST. | DRAWN BY   | CJA      | MATERIAL         |   |  | 3130 VERONA AVE<br>BUFORD, GA 30518<br>PHN (770) 932-2443<br>FAX (770) 932-2490<br>www.nyloplast-us.com |       |        |         |              |     |
|   | DATE       | 3-10-00  | PROJECT NO./NAME |   |   | TITLE   |       |        |         |              |     |
|   | REVISED BY | NMH      | DATE             |   | 8 IN - 36 IN DRAIN BASIN SPECIFICATIONS   |   |       |        |         |              |     |
|   | DATE       | 02-21-18 | DWG SIZE         | A | SCALE   | 1:1   | SHEET | 1 OF 1 | DWG NO. | 7001-110-011 | REV |

# 253-SA-125

**COVER with  
ADJUSTABLE FRAME  
No. 25P ASSEMBLY**

220 lbs.

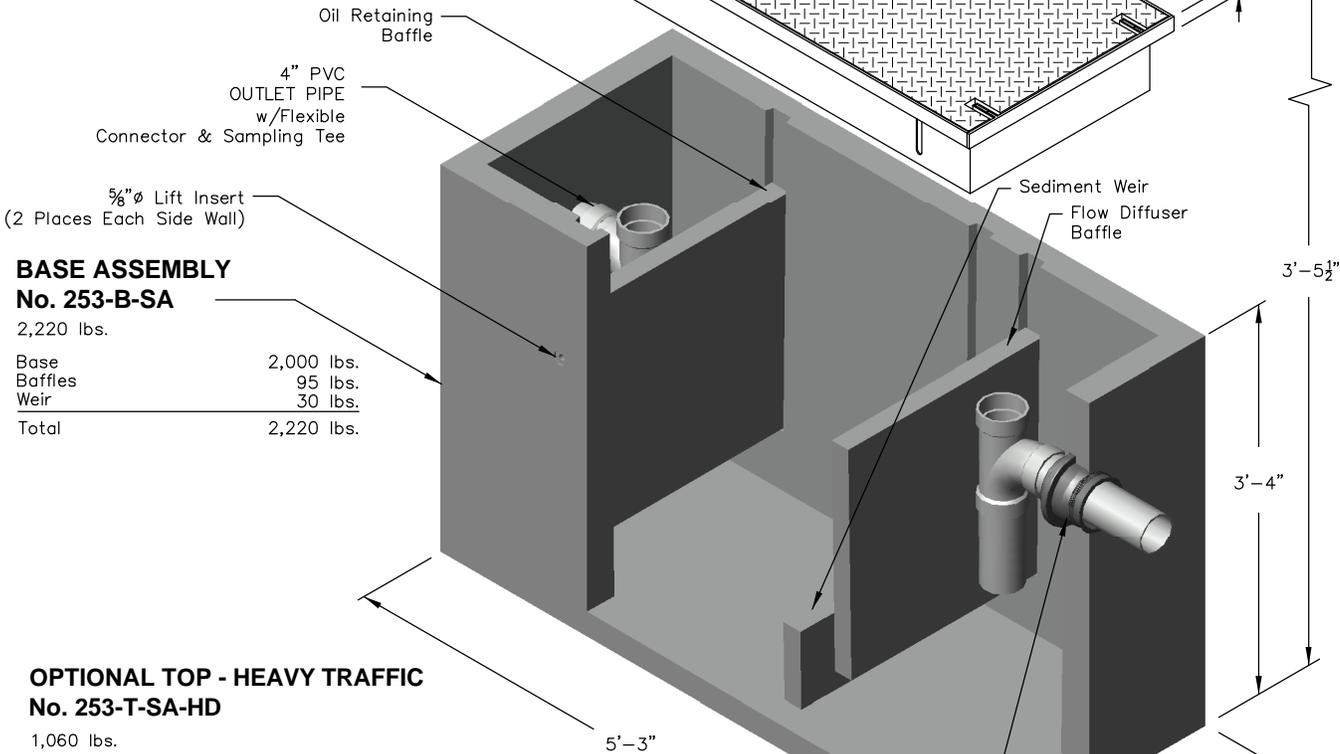
Suitable for use in off-street locations where not subjected to high density traffic.



**BASE ASSEMBLY  
No. 253-B-SA**

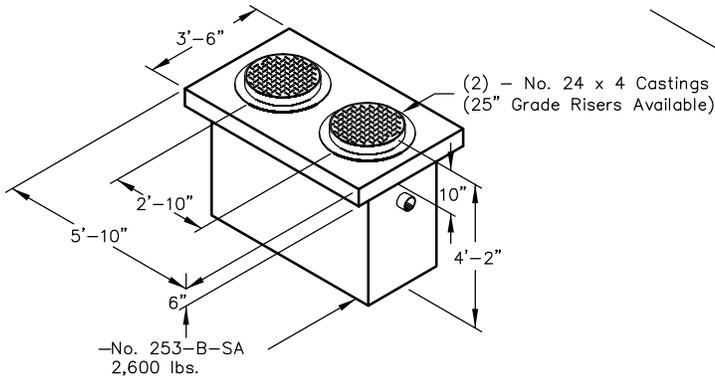
2,220 lbs.

|              |                   |
|--------------|-------------------|
| Base         | 2,000 lbs.        |
| Baffles      | 95 lbs.           |
| Weir         | 30 lbs.           |
| <b>Total</b> | <b>2,220 lbs.</b> |



**OPTIONAL TOP - HEAVY TRAFFIC  
No. 253-T-SA-HD**

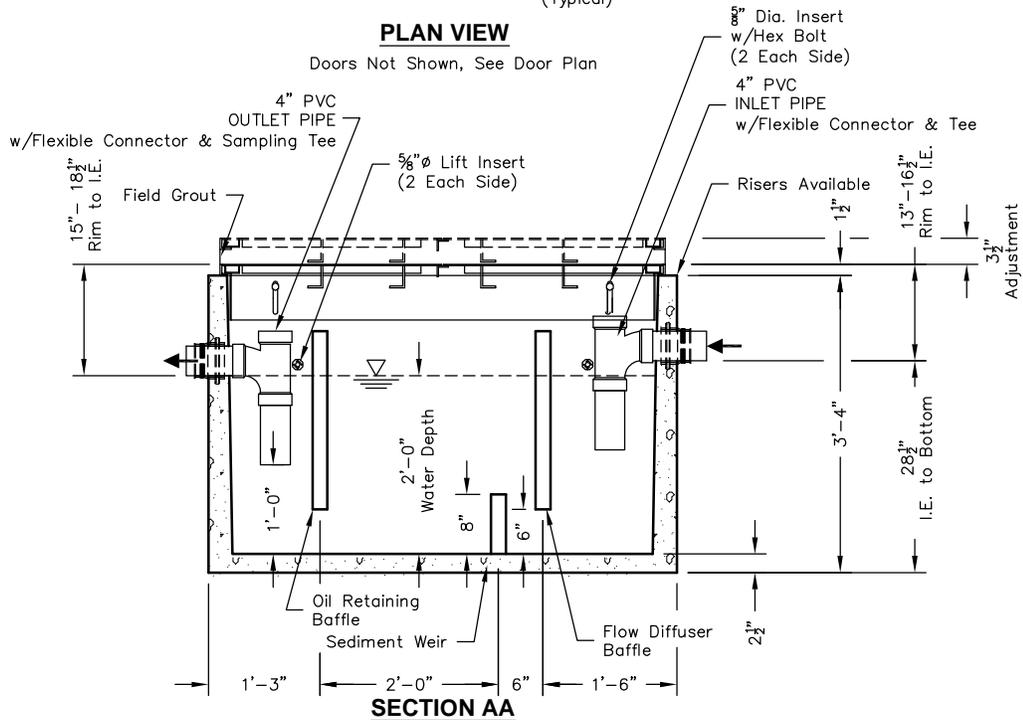
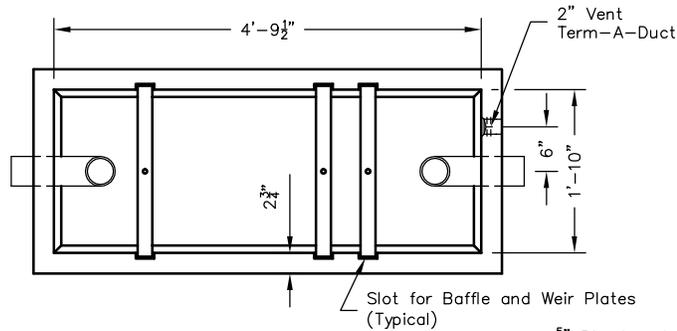
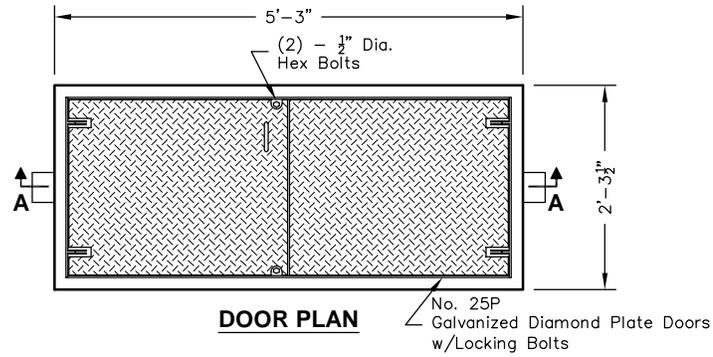
1,060 lbs.



Note: Designed for 0 to 5'-0" of Cover

|   |   |   |
|---|---|---|
|  <p>PO Box 323, Wilsonville, Oregon 97070-0323<br/>Tel: (503) 682-2844 Fax: (503) 682-2657</p> | <p><b>253-SA-125</b></p>  | <p><b>253-SA-125</b><br/><b>OIL / WATER SEPARATOR</b><br/><b>125 GALLON - API STYLE</b></p> |
|   | File Name: 020-253SA-125  |   |
|   | Issue Date: 2018  |   |
|   | <p><a href="http://oldcastleprecast.com/wilsonville">oldcastleprecast.com/wilsonville</a></p> |   |

# 253-SA-125



**Notes:**

- Designed in accordance with ASTM C 890 for AASHTO HS20-44 vehicle loading
- Flow Rate 8 GPM based on 15 min. retention time.
- Manufacturer's recommendations:
  - 1.) Ventilate each end to open atmosphere.
  - 2.) Prior to "Start Up" of System, fill with clean water to bottom of outlet pipe (approx. one foot deep). For best results, fill to flow line.
  - 3.) Follow Regular Inspection, Cleaning, & Maintenance Schedule (See Clean Out & Maintenance).

|   |  |  |
|---|--|--|
|  <p>PO Box 323, Wilsonville, Oregon 97070-0323<br/>Tel: (503) 682-2844 Fax: (503) 682-2657</p> | <b>253-SA-125</b>  | <b>253-SA-125</b><br><b>OIL / WATER SEPARATOR</b><br><b>125 GALLON - API STYLE</b> |
|   | File Name: 020-253SA-125   |  |
|   | Issue Date: 2018   |  |
|   | <a href="http://oldcastleprecast.com/wilsonville">oldcastleprecast.com/wilsonville</a> |  |

GRADING & EROSION CONTROL PLAN:

Contours shown are existing. New storage area to be raised to the 527' level to allow for site drainage to utilize existing basin and culverts. Grading to be conducted during dry weather. Install biofiltration bags at 50' intervals in ditchline downstream of catchbasin culvert.

