



Board of Adjustment Staff Report

Meeting Date: January 4, 2024

Agenda Item: 8B

ADMINISTRATIVE PERMIT CASE NUMBER: WADMIN23-0017 (Lipscomb Garage)

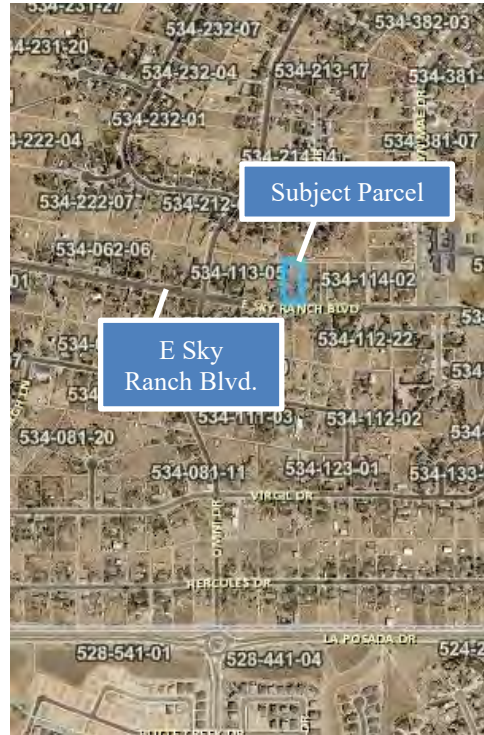
BRIEF SUMMARY OF REQUEST: To allow a detached accessory structure larger than the main residence

STAFF PLANNER: Tim Evans, Planner
Phone Number: 775.328.2314
E-mail: tevens@washoecounty.gov

CASE DESCRIPTION

For hearing, discussion, and possible action to approve an administrative permit for a 4,000 square foot detached accessory structure (garage) that is larger than the residence on the same parcel of land. The residence on the parcel is 2,870 square feet.

Applicant / Property Owner: Aaron Lipscomb
 Location: 195 E Sky Ranch Blvd, Sparks NV 89436
 APN: 534-113-02
 Parcel Size: 1.002 acres
 Master Plan: Suburban Residential
 Regulatory Zone: Low Density Suburban (LDS)
 Area Plan: Spanish Springs
 Development Code: Authorized in Article 808, Administrative Permits
 Commission District: 4 – Commissioner Andriola



Vicinity Map

STAFF RECOMMENDATION

APPROVE

APPROVE WITH CONDITIONS

DENY

POSSIBLE MOTION

I move that, after giving reasoned consideration to the information contained in the staff report and information received during the public hearing, the Washoe County Board of Adjustment approve Administrative Permit Case Number WADMIN23-0017 for Aaron Lipscomb, with the conditions included as Exhibit A to this matter, having made all five findings in accordance with Washoe County Development Code Section 110.808.25.

(Motion with Findings on Page 9)

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Administrative Permit Definition

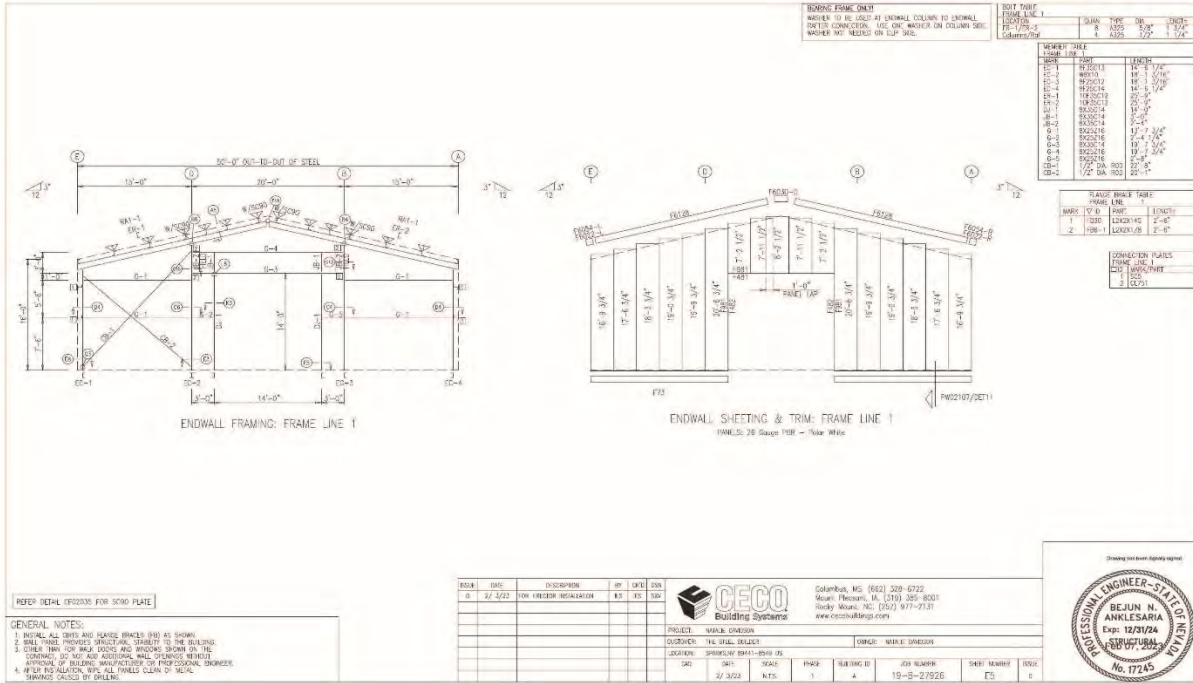
The purpose of an administrative permit is to provide a method of review for a proposed use which possess characteristics that requires a thorough appraisal in order to determine if the use has the potential to adversely affect other land uses, transportation or facilities in the vicinity. The Board of Adjustment may require conditions of approval necessary to eliminate, mitigate, or minimize to an acceptable level any potentially adverse effects of a use, or to specify the terms under which commencement and operation of the use must comply. Prior to approving an application for an administrative permit, the Board of Adjustment must find that all of the required findings, if applicable, are true.

The conditions of approval for Administrative Permit Case Number WADMIN23-0017 (Lipscomb Garage) is attached to this staff report and will be included with the action order.

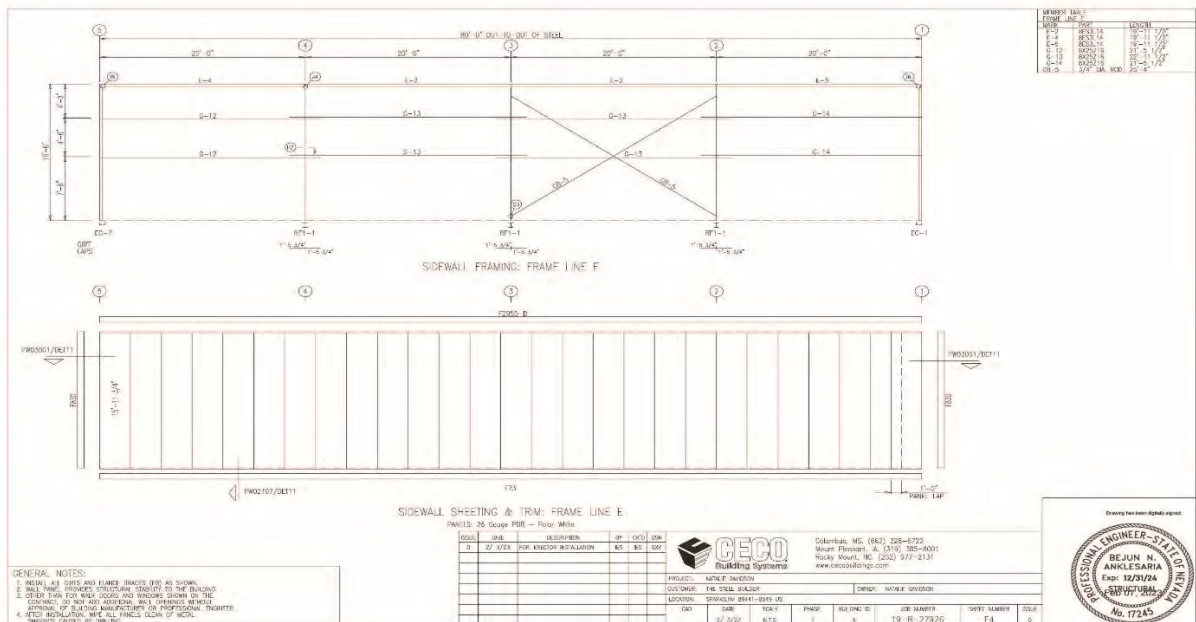
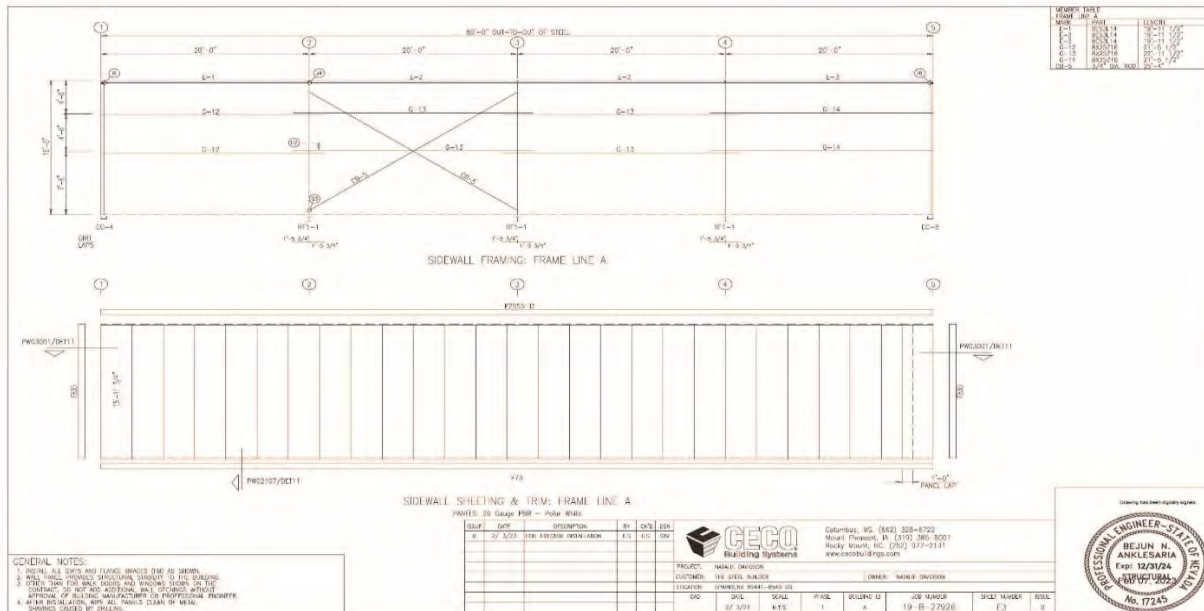
The subject property is designated as Low Density Suburban (LDS) and is located in the Spanish Springs Area Plan; detached accessory structures that are larger than the main dwelling are permissible in that area, subject to approval of an administrative permit.



Site Plan



Front and Rear Elevations



Side Elevations

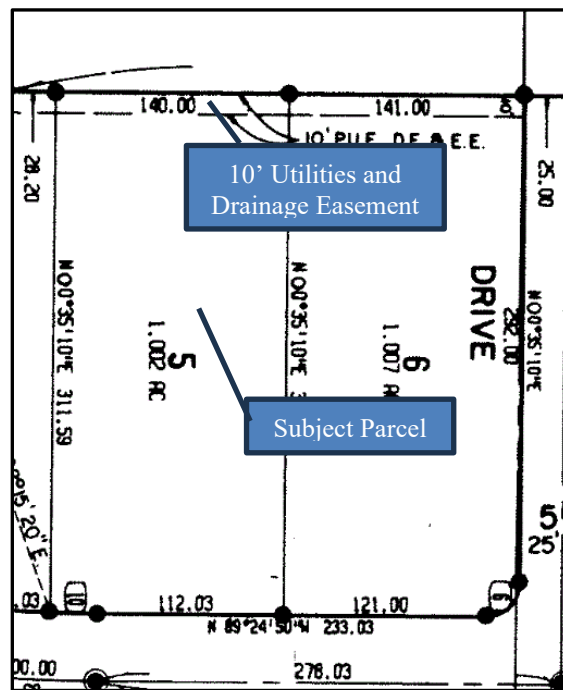
Project Evaluation

The applicant is requesting an administrative permit for a 4,000 square foot accessory structure (garage) for the storage of a recreational vehicle, trailers, and vehicles. The proposed garage will be larger than the existing 2,870 square foot dwelling located on the 1.002-acre parcel. Pursuant to Washoe County Code Section 110.306.10(d), an administrative permit is required for an accessory structure that is larger than the main structure (dwelling).

Per a conversation with the applicant on November 29, 2023, the proposed colors of the structure will be polar white for the siding and charcoal for the trim to match the colors of the existing dwelling, there is no proposed connection to water or wastewater facilities, and there will be no lighting, interior or exterior.

The parcel has a regulatory zone of Low Density Suburban (LDS). Pursuant to WCC Section 110.406.05, *General*, Table 110.506.05.1, *Standards, Part Three, Yard and Setback Dimensions*, the setbacks for LDS are thirty (30) feet in the front and rear and twelve (12) feet on the sides, with a maximum height of thirty-five (35) feet. Per the site plan on page 4, the proposed structure will be located thirty (30) feet from the rear (northern) property line, twelve (12) feet from the side (eastern) property line, exceeding the minimum setbacks from the remaining (southern and western) property lines, and will be twenty-two (22) feet in height, all of which is in conformance with the required setbacks and maximum height.

The property is shown as parcel "5" on Tract Map 1891c (see portion of Tract Map 1891c below), which shows a ten (10) foot easement for utilities and drainage along the northern property line.



Portion of Tract Map 1891c

The parcel, as indicated by the contour lines of the site plan on page 4, is relatively flat and the proposed detached accessory structure will be located in the northern portion of the parcel, behind the existing dwelling and outside the easement for utilities and drainage.

Surrounding Land Uses and Setting

The surrounding parcels are zoned LDS and are similarly developed with dwellings and accessory structures. For example, the contiguous parcel to the west is developed with a dwelling and accessory structures, one of the accessory structures being approximately 5,000 square feet.

Article 414, Noise and Lighting

Noise from the project would be from construction of the garage. A condition of approval serves to address limiting construction hours to address impacts to the neighboring properties.

Per the application and conversation with the applicant on November 29, 2023, the proposed garage will not have interior or exterior lighting, only skylights.

As stated previously, the metal siding of the accessory structure will be colored to match the existing dwelling. The roofing will be standard metal roofing material per the construction plans (Exhibit D). A condition of approval serves to address glare and requiring non-reflective materials for siding and roofing.

Spanish Springs Area Plan

The subject parcel is located within the Spanish Springs Area Plan. There are no pertinent policies from the Area Plan that are applicable to the proposed request.

Reviewing Agencies

The following agencies/individuals received a copy of the project application for review and evaluation.

Agencies	Sent to Review	Responded	Provided Conditions	Contact
Washoe County Building & Safety	X			
Washoe County Sewer	X			
Washoe County Water Rights Manager (All Apps)	X	X		
Washoe County Engineering (Land Development) (All Apps)	X	X	X	Rob Wimer, rwimer@washoecounty.gov; Janelle Thomas, jkthomas@washoecounty.gov
Washoe County Engineering & Capital Projects Director (All Apps)	X			
NNPH Environmental Health	X			
TMFPD	X	X	X	Dale Way, dway@tmfpd.us; Brittany Lemon, BLemon@tmfpd.us
NV Energy	X			
Great Basin Water Company	X			

All conditions required by the contacted agencies can be found in Exhibit A, Conditions of Approval.

Staff Comment on Required Findings

WCC 110.808.25 requires that all of the following findings be made to the satisfaction of the Washoe County Board of Adjustment before granting approval of the administrative permit request. Staff has completed an analysis of the application and has determined that the proposal is in compliance with the required findings as follows.

- (a) Consistency. That the proposed use is consistent with the action programs, policies, standards and maps of the Master Plan and the Spanish Springs Area Plan.

Staff Comment: The requested detached accessory structure does not conflict with the action programs, policies, standards, and maps of the Master Plan and the Spanish Springs Area Plan. The parcel is located within the Low Density Suburban (LDS) zone,

which allows for detached accessory structures larger than the primary dwelling on the same parcel subject to the issuance of an administrative permit granted by the Board of Adjustment.

- (b) Improvements. That adequate utilities, roadway improvements, sanitation, water supply, drainage, and other necessary facilities have been provided, the proposed improvements are properly related to existing and proposed roadways, and an adequate public facilities determination has been made in accordance with Division Seven.

Staff Comment: A detached accessory structure will not create a significant demand on the existing utilities, roadway improvements, sanitation, or water supply. The project application was sent to Washoe County Engineering, NV Energy, and Great Basin Water Company for review and no comments were received expressing any issues with regards to utilities, public facilities, and adjacent roads.

- (c) Site Suitability. That the site is physically suitable for a detached metal garage, and for the intensity of such a development.

Staff Comment: The subject parcel is 1.002 acres with adequate space for a 4,000 square foot detached garage, providing the ability to meet all setback requirements.

- (d) Issuance Not Detrimental. That issuance of the permit will not be significantly detrimental to the public health, safety or welfare; injurious to the property or improvements of adjacent properties; or detrimental to the character of the surrounding area.

Staff Comment: That issuance of the permit will not be significantly detrimental to the public health, safety or welfare; injurious to the property or improvements of adjacent properties; or detrimental to the character of the surrounding area.

- (e) Effect on a Military Installation. Issuance of the permit will not have a detrimental effect on the location, purpose or mission of the military installation.

Staff Comment: As there is no military installation nearby, the project will have no impact on a military installation.

Recommendation

After a thorough analysis and review, Administrative Permit Case Number WADMIN23-0017 is being recommended for approval with conditions. Staff offers the following motion for the Board's consideration.

Motion

I move that, after giving reasoned consideration to the information contained in the staff report and information received during the public hearing, the Washoe County Board of Adjustment approve Administrative Permit Case Number WADMIN23-0017 for Aaron Lipscomb, with the conditions included as Exhibit A to this matter, having made all five findings in accordance with Washoe County Development Code Section 110.808.25:

- (a) Consistency. That the proposed use is consistent with the action programs, policies, standards and maps of the Master Plan and the Spanish Springs Area Plan;
- (b) Improvements. That adequate utilities, roadway improvements, sanitation, water supply, drainage, and other necessary facilities have been provided, the proposed improvements are properly related to existing and proposed roadways, and an adequate public facilities determination has been made in accordance with Division Seven;
- (c) Site Suitability. That the site is physically suitable for a detached metal garage, and for the intensity of such a development;

- (d) Issuance Not Detrimental. That issuance of the permit will not be significantly detrimental to the public health, safety or welfare; injurious to the property or improvements of adjacent properties; or detrimental to the character of the surrounding area;
- (e) Effect on a Military Installation. Issuance of the permit will not have a detrimental effect on the location, purpose or mission of the military installation.

Appeal Process

Board of Adjustment action will be effective 10 calendar days after the written decision is filed with the Secretary to the Board of Adjustment and mailed to the original applicant, unless the action is appealed to the Washoe County Board of County Commissioners, in which case the outcome of the appeal shall be determined by the Washoe County Board of County Commissioners. Any appeal must be filed in writing with the Planning and Building Division within 10 calendar days from the date the written decision is filed with the Secretary to the Board of Adjustment and mailed to the original applicant.

Applicant / Property Owner: Aaron Lipscomb, bdnatalied@gmail.com

Representatives: Natalie Davidson, bdnatalied@gmail.com, andrew@elementengineer.com



Conditions of Approval

Administrative Permit Case Number WADMIN23-0017

The project approved under Administrative Permit Case Number WADMIN23-0017 shall be carried out in accordance with the conditions of approval granted by the Board of Adjustment on January 4, 2024. Conditions of approval are requirements placed on a permit or development by each reviewing agency. These conditions of approval may require submittal of documents, applications, fees, inspections, amendments to plans, and more. These conditions do not relieve the applicant of the obligation to obtain any other approvals and licenses from relevant authorities required under any other act or to abide by all other generally applicable codes, and neither these conditions nor the approval by the County of this project/use override or negate any other applicable restrictions on uses or development on the property.

Unless otherwise specified, all conditions related to the approval of this administrative permit shall be met or financial assurance must be provided to satisfy the conditions of approval prior to issuance of a grading or building permit. The agency responsible for determining compliance with a specific condition shall determine whether the condition must be fully completed or whether the applicant shall be offered the option of providing financial assurance. All agreements, easements, or other documentation required by these conditions shall have a copy filed with the County Engineer and the Planning and Building Division.

Compliance with the conditions of approval related to this administrative permit is the responsibility of the applicant, his/her successor in interest, and all owners, assignees, and occupants of the property and their successors in interest. Failure to comply with any of the conditions imposed in the approval of the administrative permit may result in the initiation of revocation procedures.

Operational conditions are subject to review by the Planning and Building Division prior to the renewal of a business license each year. Failure to adhere to the operational conditions may result in the Planning and Building Division recommending that the business license not be renewed until conditions are complied with to the satisfaction of Washoe County.

Washoe County reserves the right to review and revise the conditions of approval related to this Administrative Permit should it be determined that a subsequent license or permit issued by Washoe County violates the intent of this approval.

For the purpose of conditions imposed by Washoe County, “may” is permissive and “shall” or “must” is mandatory.

Conditions of approval are usually complied with at different stages of the proposed project. Those stages are typically:

- Prior to permit issuance (i.e., grading permits, building permits, etc.).
- Prior to obtaining a final inspection and/or a certificate of occupancy.
- Prior to the issuance of a business license or other permits/licenses.
- Some “conditions of approval” are referred to as “operational conditions.” These conditions must be continually complied with for the life of the project or business.

FOLLOWING ARE CONDITIONS OF APPROVAL REQUIRED BY THE REVIEWING AGENCIES. EACH CONDITION MUST BE MET TO THE SATISFACTION OF THE ISSUING AGENCY.

Washoe County Planning and Building Division

1. The following conditions are requirements of the Planning and Building Division, which shall be responsible for determining compliance with these conditions.

Contact Name – Tim Evans, Planner, 775.328.2314, tevens@washoecounty.gov

- a. **The applicant shall attach a copy of the action order approving this project to all permits and applications (including building permits) applied for as part of this administrative permit.**
- b. The applicant shall demonstrate substantial conformance to the plans approved as part of this administrative permit. Planning and Building shall determine compliance with this condition.
- c. The applicant shall submit construction plans, with all information necessary for comprehensive review by Washoe County, and initial building permits shall be issued within two years from the date of approval by Washoe County. The applicant shall complete construction within the time specified by the building permits. Compliance with this condition shall be determined by the Planning and Building Division.
- d. A note shall be placed on all construction drawings and grading plans stating:

NOTE

Should any cairn or grave of a Native American be discovered during site development, work shall temporarily be halted at the specific site and the Sheriff's Office as well as the State Historic Preservation Office of the Department of Conservation and Natural Resources shall be immediately notified per NRS 383.170.

- e. Construction activities shall be limited to the hours between 7am to 7pm, Monday through Saturday only. Any construction machinery activity or any noise associated with the construction activity are also limited to these hours.
- f. The metal siding and/or roof of the accessory structure shall be non-reflective, and colors used shall be compatible with the primary residence.

Washoe County Engineering and Capital Projects

2. The following conditions are requirements of the Engineering Division, which shall be responsible for determining compliance with these conditions.

Contact Name – Robert Wimer, P.E., 775.328.2059, rwimer@washoecounty.gov

- a. A complete set of construction improvement drawings, including an on-site grading plan, shall be submitted when applying for a building/grading permit. Grading shall comply with best management practices (BMP's) and shall include detailed plans for grading, site drainage, erosion control (including BMP locations and installation details), slope stabilization, and mosquito abatement. Placement or removal of any excavated materials shall be indicated on the grading plan. Silts shall be controlled on-site and not allowed onto adjacent property.

Truckee Meadows Fire Protection District

3. The following condition is a requirement of the Truckee Meadows Fire Protection District, which shall be responsible for determining compliance with this condition.

Contact Name – Brittany Lemon, Fire Captain, 775.326.6079, blemon@tmfpd.us

- a. This project shall meet and comply with all requirements of currently adopted TMFPD fire codes, ordinances, and standards at the time of construction to include infrastructure for fire apparatus access roads and water supply. <https://tmfpd.us/fire-code/>

*** End of Conditions ***

Evans, Timothy

From: Lemon, Brittany
Sent: Tuesday, November 21, 2023 1:17 PM
To: Evans, Timothy
Subject: WADMIN23-0017 (Lipscomb Garage) Conditions of Approval

Hi Tim,

“This project shall meet and comply with all requirements of currently adopted TMFPD fire codes, ordinances, and standards at the time of construction to include infrastructure for fire apparatus access roads and water supply.”
<https://tmfpd.us/fire-code/>.

Thank you,

Brittany Lemon

Fire Captain - Fire Prevention | Truckee Meadows Fire & Rescue

blemon@tmfpd.us | Office: 775.326.6079 | Cell: 775.379.0584

3663 Barron Way, Reno, NV 89511



"Committed to excellence, service, and the protection of life and property in our community"



Date: November 22, 2023

To: Tim Evans, Planner

From: Timber Weiss, P.E., Licensed Engineer

Re: Administrative Permit Case Number WADMIN23-0017 (Lipscomb Garage)
APN 534-113-02

GENERAL PROJECT DISCUSSION

For hearing, discussion, and possible action to approve an administrative permit for a 4,000 square foot detached accessory structure (garage) that is larger than the residence on the same parcel of land. The residence on the parcel is 2,870 square feet.

The Community Services Department (CSD) recommends approval of this project with the following Water Rights conditions:

There are no water rights comments for this case.



Date: December 2, 2023

To: Tim Evans, Senior Planner

From: Janelle K. Thomas, P.E., Senior Licensed Engineer
Robert Wimer, P.E., Licensed Engineer

Re: WADMIN23-0017 Lipscomb Garage
APN: 534-113-02
195 E. Sky Ranch Boulevard

GENERAL COMMENTS

Washoe County Engineering staff has reviewed the above referenced application. The Administrative Permit application is to request approval of a 4,000 square foot detached accessory structure (garage) that is larger than the residence on the same parcel of land, which is 2,870 square feet. The Engineering and Capital Projects Division recommends approval with the following comments and conditions:

GENERAL CONDITIONS

Contact Information: Robert Wimer, P.E. (775) 328-2059

Conditions:

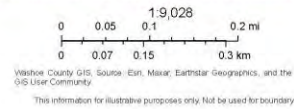
1. A complete set of construction improvement drawings, including an on-site grading plan, shall be submitted when applying for a building/grading permit. Grading shall comply with best management practices (BMP's) and shall include detailed plans for grading, site drainage, erosion control (including BMP locations and installation details), slope stabilization, and mosquito abatement. Placement or removal of any excavated materials shall be indicated on the grading plan. Silts shall be controlled on-site and not allowed onto adjacent property.

Public Notice

Washoe County Code requires that public notification for an administrative permit must be mailed to a minimum of 30 separate property owners within a minimum 500-foot radius of the subject property a minimum of 10 days prior to the public hearing date. A notice setting forth the time, place, purpose of hearing, a description of the request and the land involved was sent within a 500-foot radius of the subject property. A total of 37 separate property owners were noticed a minimum of 10 days prior to the public hearing date.



November 13, 2023



Public Notice Map

Administrative Permit Case Number WADMIN23-0017

Community Services Department
Planning and Building
ADMINISTRATIVE PERMIT APPLICATION



Community Services Department
Planning and Building
1001 E. Ninth St., Bldg. A
Reno, NV 89512-2845

Telephone: 775.328.6100

Washoe County Development Application

Your entire application is a public record. If you have a concern about releasing personal information, please contact Planning and Building staff at 775.328.6100.

Project Information		Staff Assigned Case No.: _____	
Project Name: Lipscomb Garage			
Project Description: Detached Garage			
Project Address: 195 E Sky Ranch Blvd			
Project Area (acres or square feet): 4000			
Project Location (with point of reference to major cross streets AND area locator): E Sky Ranch Blvd and Omni Dr			
Assessor's Parcel No.(s):	Parcel Acreage:	Assessor's Parcel No.(s):	Parcel Acreage:
534-113-02	1.002		
Indicate any previous Washoe County approvals associated with this application: Case No.(s). N/A			
Applicant Information (attach additional sheets if necessary)			
Property Owner:		Professional Consultant:	
Name: Aaron Lipscomb		Name: Element Engineering	
Address: 195 E Sky Ranch Blvd		Address: 3960 Glenview Terr	
Sparks, NV	Zip: 89441	Reno, NV	Zip: 89503
Phone: 775-686-0310	Fax:	Phone: 775-762-5461	Fax:
Email: bdnatalied@gmail.com		Email: andrew@elementengineer.com	
Cell: 775-686-0310	Other: mobile	Cell:	Other:
Contact Person: Natalie Davidson		Contact Person: Natalie Davidson	
Applicant/Developer:		Other Persons to be Contacted:	
Name:		Name: Natalie Davidson	
Address:		Address: 195 E Sky Ranch Blvd	
	Zip:	Sparks, NV	Zip: 89441
Phone:	Fax:	Phone: 775-686-0310	Fax:
Email:		Email: bdnatalied@gmail.com	
Cell:	Other:	Cell:	Other:
Contact Person:		Contact Person: Natalie Davidson	
For Office Use Only			
Date Received:	Initial:	Planning Area:	
County Commission District:		Master Plan Designation(s):	
CAB(s):		Regulatory Zoning(s):	

**Administrative Permit Application
Supplemental Information**
(All required information may be separately attached)

1. What is the type of project or use being requested?

Detached Garage

2. What section of the Washoe County code requires the Administrative permit required?

110.306

3. What currently developed portions of the property or existing structures are going to be used with this permit?

N/A

4. What improvements (e.g. new structures, roadway improvements, utilities, sanitation, water supply, drainage, parking, signs, etc.) will have to be constructed or installed and what is the projected time frame for the completion of each?

N/A

5. Is there a phasing schedule for the construction and completion of the project?

Construction to begin as soon as permits are approved

6. What physical characteristics of your location and/or premises are especially suited to deal with the impacts and the intensity of your proposed use?

the garage will decrease weeds on the property and remove vehicles and trailers f

7. What are the anticipated beneficial aspects or effect your project will have on adjacent properties and the community?

The Property will not have vehicles visible, add wind break to neighboring property

8. What will you do to minimize the anticipated negative impacts or effect your project will have on adjacent properties?

Keep construction to daytime hours to not disturb neighbors

9. Please describe any operational parameters and/or voluntary conditions of approval to be imposed on the administrative permit to address community impacts.

N?A

December 2018

10. How many improved parking spaces, both on-site and off-site, are available or will be provided? (Please indicate on site plan.)

There will be indoor parking on this facility

11. What types of landscaping (e.g. shrubs, trees, fencing, painting scheme, etc.) are proposed? (Please indicate location on site plan.)

natural/ groomed landscaping

12. What type of signs and lighting will be provided? On a separate sheet, show a depiction (height, width, construction materials, colors, illumination methods, lighting intensity, base landscaping, etc.) of each sign and the typical lighting standards. (Please indicate location of signs and lights on site plan.)

N?A

13. Are there any restrictive covenants, recorded conditions, or deed restrictions (CC&Rs) that apply to the area subject to the administrative permit request? (If so, please attach a copy.)

Yes

No

14. Utilities:

a. Sewer Service	Septic Tank
b. Water Service	Great Basin Water Company

For most uses, the Washoe County Code, Chapter 110, Article 422, Water and Sewer Resource Requirements, requires the dedication of water rights to Washoe County. Please indicate the type and quantity of water rights you have available should dedication be required:

c. Permit #	N/A	acre-feet per year	N/A
d. Certificate #	N/A	acre-feet per year	N/A
e. Surface Claim #	N/A	acre-feet per year	N/A
f. Other, #	N/A	acre-feet per year	N/A

Title of those rights (as filed with the State Engineer in the Division of Water Resources of the Department of Conservation and Natural Resources):

unknown

Administrative Permit Application Supplemental Information for Care of the Infirm

(All required information, to include the physician's signed affidavit, is considered a public record and will be treated as such by Washoe County. Information may be attached separately)

1. Name of the Infirm:

Detached Garage

2. Name of Nevada licensed physician identifying the need for on-premise care and the physician's estimate as to the length of on-premise care required (attach physician's signed affidavit, form on page 11):

110.306

3. Name(s) of the Caregiver(s):

N/A

4. Describe the type and size of recreational vehicle or self-contained travel trailer that is proposed for use as a temporary residence of the caregiver. (Attach a site map showing the proposed location.)

N/A

5. Describe the arrangements/methods proposed for the temporary provision of:

a. Water Service:

Great Basin Water Service

b. Sewage (Sanitary Sewer) Service:

Septic Tank

c. Garbage (Solid Waste) Service:

Waste Management

d. Electricity:

NV Energy

e. Natural Gas:

NV Energy

6. What will you do to minimize the anticipated negative impacts or effect your waiver will have on adjacent properties?

Keep construction to daytime hours to not disturb neighbors

7. What types of landscaping (e.g. shrubs, trees, fencing, painting scheme, etc.) are proposed? (Please indicate location on site plan.)

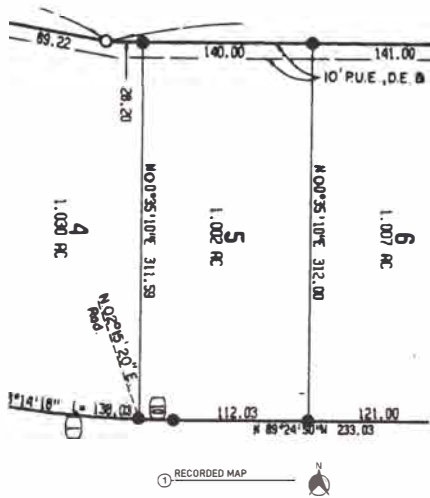
natural/ groomed landscaping

8. Are there any restrictive covenants, recorded conditions, or deed restrictions (CC&Rs) that apply to the area subject to the administrative permit request? (If so, please attach a copy.)

<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
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9. Community Services (provided and nearest facility):

a. Fire Station	Truckee Meadows Fire Department
b. Health Care Facility	Northern Nevada Medical Center
c. Elementary School	Spanish Springs Elementary
d. Middle School	Shaw Middle
e. High School	Spanish Springs
f. Parks	Eagle Canyon
g. Library	Spanish Springs Library
h. Citifare Bus Stop	N/A



REGULATORY ZONE DEVELOPMENT STANDARDS							
Regulatory Zone	Title	Front (feet)	Yards - Setbacks (feet)	Side (feet)	Rear (feet)	Maximum Height (feet)	Maximum Density (Units/Acre)
LER	Low-Density Residential	30	10	10	10	25	0.5
MR	Medium-Density Residential	30	10	10	10	35	1.0
HR	High-Density Residential	30	10	10	10	45	2.0
LER	Low-Density Residential	30	10	10	10	25	0.5



SITE SURVEY NOTES

1. ALL WORK PERFORMED ON THIS PROJECT SHALL BE IN CONFORMANCE WITH THESE PLANS AND THE STANDARDS SET BY THE LOCAL BUILDING OFFICIAL.
2. NO DEVIATION FROM THESE DRAWINGS SHALL BE MADE WITHOUT PRIOR DOCUMENTED CONSENT OF THE LAND SURVEYOR. REPORT ANY PLAN DISCREPANCIES TO THE LAND SURVEYOR AND OWNER.
3. ALL DIMENSIONS SHALL BE VERIFIED WITHIN THE PROJECT PRIOR TO COMMENCEMENT OF WORK. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS PREVAIL.

SITE SURVEY LEGEND

KEY - DESCRIPTION

- FOUND CAP
- ⊕ PROPERTY CORNER

* OD = DISTING. (T) = PIER/POST, CONC. = CONCRETE, (H) = OVERHANG, (F) = FURTER, CENT. = CONTRACTION, SB = SETBACK, (H) = HIGH POINT, (UG) = UNDERGROUND

REVISIONS:	DATE:

PE / PLS

ELEMENT
ESTIMATING
2330P Plaza Court
Reno, NV 89516
www.elementestimating.com

A SITE SURVEY FOR:
195 E SKY RANCH BLVD
SPARKS, NV 89441
APN: 534-113-02

SCALE: 1"=20'
DRAWN: AMH
CHECKED: AMH
DATE: 02/2/23
NOTES:

SHEET
SS

SITE SURVEY
SCALE: 1" = 20'



PAD FOOTING CALCULATION

Footings / Foundation Design 1-15
2018 IBC references ACI 318-14



Project Information:

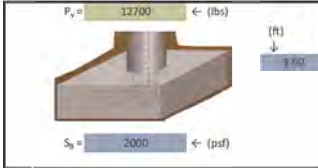
Risk Category:	II
Site Class:	D
Maximum Dead Reaction:	2800 lbs
Maximum Live Reaction:	9900 lbs

Resp. Mod Factor (R):	1.00
Importance Factor (I):	1.00

ASD Factor:	0.7
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Effective Seismic Weights (W):

Dead:	2800 lbs
Live:	8900 lbs
Total:	12700 lbs



$FND_{sp} = (P_u + W_u) / S_u$

Concrete Foundation Weight, W_{cf}

Width (sq. ft.):	3.0
Conc. Unit W:	150 pcf
Depth, A:	3.00 ft
Total (W):	16750 lbs

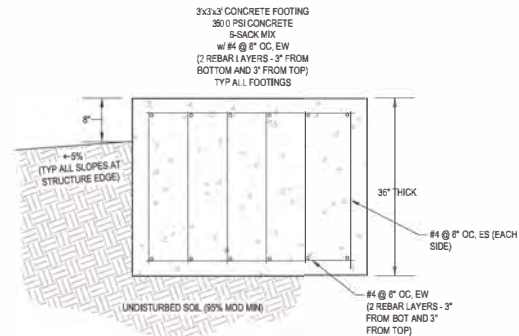
Req. Rebar Specs:

Top:	#4 @ 8" OC, EW Bar, (2" Clr)
Bot:	#4 @ 8" OC, EW Bar, (2" Clr)
Vert:	#4 @ 24" OC, EW Bar, (2" Clr)

Required Foundation Size (square):

Width _{required}	<	Width _{provided}
2.9	<	3.0

True Footing Size OK



PAD FOOTING SECTION
SCALE: 1" = 1'

- FOUNDATION PLAN NOTES
- ALL WORK PERFORMED ON THIS PROJECT SHALL BE IN CONFORMANCE WITH THESE PLANS AND THE STANDARDS SET BY THE LOCAL BUILDING OFFICIAL.
 - NO DEVIATION FROM THESE DRAWINGS SHALL BE MADE WITHOUT PRIOR DOCUMENTED CONSENT OF THE BUILDER. REPORT ANY PLAN DISCREPANCIES TO ENGINEER AND OWNER.
 - SLOPE ADJACENT SOIL AWAY FROM STRUCTURE AT 5% MINIMUM FOR 10'. RAIN DOWNSPOUTS SHALL BE INSTALLED TO ROUTE STORM RUNOFF INTO CONSTRUCTED SWALES AND INTO PERCOLATION BASINS.

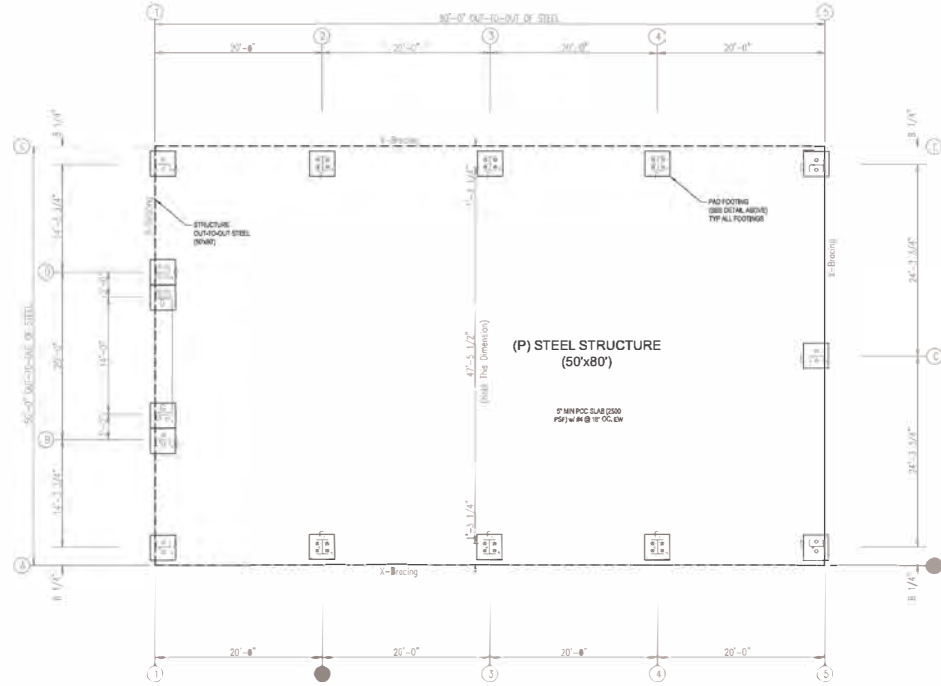
- PLAN INFORMATION
- | KEY | DESCRIPTION |
|-----|-------------|
| ● | NOT USED |
| ○ | NOT USED |
- * (D) = EXISTING, (P) = PROPOSED, (F) = 150# FIBER, (T) = TURN POINT
 (L) = LOW POINT, (O) = EACH WAY, (C) = ON CENTER

RIGID FRAME: BASIC COLUMN REACTIONS (k)

Frame Line	Column	Dead	Collat	Live	Snow	Wind_Left1	Wind_Right1	Wind_Left2	Wind_Right2	Seis	Seis	Seis	Seis
2*	E	0.6	1.6	0.7	1.5	2.9	6.0	6.7	14.0	-5.7	-8.4	0.5	-5.4
2*	A	-0.6	1.6	-0.7	1.5	-2.9	6.0	-6.7	14.0	0.5	5.4	-0.5	-8.4

ENDWALL COLUMN: BASIC COLUMN REACTIONS (k)

Frm Line	Col	Dead	Collat	Live	Snow	Wind_Left1	Wind_Right1	Wind_Left2	Wind_Right2	Wind Press				
1	E	0.2	0.2	1.1	1.6	-1.8	-3.4	0.0	1.7	-1.6	-2.5	0.0	1.9	0.0
1	D	0.7	0.6	4.0	5.6	0.0	-1.3	1.8	-5.0	0.0	0.7	1.6	-3.7	-2.5
1	B	0.6	0.6	4.0	5.6	0.0	-2.1	0.0	-3.7	0.0	-1.2	0.0	-2.8	-2.3
1	A	0.2	0.2	1.1	1.6	0.0	-1.2	0.0	-0.9	0.0	-0.6	0.0	-0.4	0.0



FOUNDATION PLAN
SCALE: 1" = 7'



REVISIONS:

NO.	DATE	DESCRIPTION

PROJECT: WADMIN23-0017

DATE: 8/28/23

SCALE: VARIES

DRAWN: AMH

CHECKED: AMH

NOTES:

A FOUNDATION PLAN FOR THE: DAVIDSON SHOP

195 E SKY RANCH BLVD
SPARKS, NV 89441 | APN: 534-11-3-02

SHEET
FP

BUILDER/CONTRACTOR RESPONSIBILITIES

Drawing Validity – These drawings, supporting structural calculations and design certification are based on the order documents as of the date of these drawings. These documents describe the material supplied by the manufacturer as of the date of these drawings. Any changes to the order documents after the date on these drawings may void these drawings, supporting structural calculations and design certification. The Builder/Contractor is responsible for notifying the building authority of all changes to the order documents which result in changes to the drawings, supporting structural calculations and design certification.

Builder Acceptance of Drawings – Approval of the manufacturer's drawings and design data affirms that the manufacturer has correctly interpreted and applied the requirements of the order documents and constitutes Builder/Contractor acceptance of the manufacturer's interpretations of the order documents and standard product specifications, including its design, fabrication and quality criteria standards and tolerances. (AISC code of standard practice APR 10 Section 4.4.1)

Code Official Approval – It is the responsibility of the Builder/Contractor to ensure that all project plans and specifications comply with the applicable requirements of any governing building authority. The Builder/Contractor is responsible for securing all required approvals and permits from the appropriate agency as required.

Builder is responsible for State, Federal and OSHA safety compliance – The Builder/Contractor is responsible for applying and observing all pertinent safety rules and regulations and OSHA standards as applicable.

Building Erection – The Builder/Contractor is responsible for all erection of the steel and associated work in compliance with the Metal Building Manufacturers drawings. Temporary supports, such as temporary guys, braces, false work or other elements required for erection will be determined, furnished and installed by the erector. (AISC Code of Standard Practice APR 10 Section 7.10.3)

Discrepancies – Where discrepancies exist between the Metal Building plans and plans for other trades, the Metal Building plans will govern. (AISC Code of Standard Practice APR 10 Section 3.3)

Materials by Others – All interface and compatibility of any materials not furnished by the manufacturer are the responsibility of and to be coordinated by the Builder/Contractor or A/E firm. Unless specific design criteria concerning any interface between materials if furnished as a part of the order documents, the manufacturer's assumptions will govern.

Modification of the Metal Building from Plans – The Metal Building supplied by the manufacturer has been designed according to the Building Code and specifications and the loads shown on this drawing. Modification of the building configuration, such as removing wall panels or braces, from that shown on these plans could affect the structural integrity of the building. The Metal Building Manufacturer or a Licensed Structural Engineer should be consulted prior to making any changes to the building configuration shown on these drawings. The Metal Building Manufacturer will assume no responsibility for any loads applied to the building not indicated on these drawings.

Foundation Design – The Metal Building Manufacturer is not responsible for the design, materials and workmanship of the foundation. Anchor rod plans prepared by the manufacturer are intended to show only location, diameter and projection of the anchor rods required to attach the Metal Building System to the foundation. It is the responsibility of the end customer to ensure that adequate provisions are made for specifying rod embedment, bearing values, tie rods and or other associated items embedded in the concrete foundation, as well as foundation design for the loads imposed by the Metal Building System, other imposed loads, and the bearing capacity of the soil and other conditions of the building site. (MBMA MBMS Chapter 4 Section 3.2.2 and Section A3)

Shimming – In accordance with Section 6.10 of Chapter 4, Common Industry Practices in the Metal Building Systems Manual, shimming is a normal part of erection and is not subject to claim.

PROJECT NOTES

Material properties of steel bar, plate, and sheet used in the fabrication of built-up structural framing members conform to ASTM A529, ASTM A572, or ASTM A1011 with 55 ksi min. yield, except flanges wider than 12" and thicker than 3/8", all flanges thicker than 1", and all webs thicker than 3/8" or 50 ksi min. yield. Rod X-bracing conforms to ASTM A529 or ASTM A572 with 50 ksi min. yield. Cable X-bracing conforms to ASTM A475 7 Strand Extra High-Strength grade. Hot rolled structural shapes conform to ASTM A992, ASTM A529, or ASTM A572 with 50 ksi min. yield. Hot rolled angles, other than flange braces, conform to ASTM A36 minimum. Round and rectangular HSS conforms to ASTM A500 Grade B. Cold-formed steel secondary framing Members conform to ASTM A1011 or ASTM A653 Grade 55 with 55 ksi min. yield.

The manufacturer does not assume any responsibility for the erection nor field supervision of the structure and or any special inspections that may be required by the local building authority during erection (including inspection of the high strength bolts or field welds) as required during erection. The coordination and the costs associated for setting up and Special Inspections are the responsibility of the Erector, Owner, Architect, or Engineer of Record.

Design is based upon the more severe loading of either the roof snow load or the roof live load.

Loads, as noted, are given within order documents and are applied in general accordance with the applicable provisions of the model code and/or specification indicated. Neither the manufacturer nor the certifying engineer declares or attests that the loads as designated are proper for the local provisions that may apply or for site specific parameters. The manufacturer's Engineer's certification is limited to design loads supplied by an Architect and/or engineer of record for the overall construction project.

This project is designed using manufacturer's standard serviceability standards. Generally this means that all stresses and deflections are within typical performance limits for normal occupancy and standard metal building products. If special requirements for deflections and vibrations must be adhered to, then they must be clearly stated in the contract documents.

This metal building system is designed as enclosed. All exterior components (i.e. doors, windows, vents, etc.) must be designed to withstand the specified wind loading for the design of components and cladding in accordance with the specified building code. Doors are to be closed when a maximum of 50% of design wind velocity is reached.

Unless otherwise noted, special inspection of fabricated items is not required. Per IBC section 1704.2.5.1, The fabricator is approved to perform such work without special inspection through maintenance of IAS AC 472 certification MB-136

BOLT TIGHTENING—Bolted joints with ASTM A325 type 1 bolts greater than 1/2" diameter are specified as pretensioned joints in accordance with the most recent edition of the RCSC Specification for Structural Joints Using ASTM A325 or A490 Bolts. Pretensioning can be accomplished by using the turn-of-nut method of tightening, calibrated wrench/twist-off-type tension-control bolts or direct-tension-indicator as acceptable to the inspecting Agency and Building Official. Installation inspection requirements for pretensioned joints (Specification for Structural Joints Section 9.2) using turn-of-nut method is suggested. The connections on this project are not slip critical.

The metal building manufacturer has not designed the structure for snow accumulation loads at the ground level which may impose snow loads on the wall framing provided by the manufacturer.

The design collateral load has been uniformly applied to the design of the building. Hanging loads are to be attached to the purlin web. This may not be appropriate for heavily concentrated loads. Any attached load in excess of 150 pounds shall be accounted for by special design performed by a licensed engineer using concentrated loads and may require separate support members within the roof system.

ENGINEERING DESIGN CRITERIA

Building Code..... IBC 18
Building Risk Category..... II – Normal

Roof Dead Load
Superimposed..... 1.920 psf
Cateral..... 3 psf

Roof Live Load..... 20.00 psf Yes reduction

Snow
Ground Snow Load (Pg)..... 40.00 psf
Snow Load Importance Factor (Is) 1.00
Snow Exposure Factor (Ce)..... 1.00
Thermal Factor (Ct)..... 1.00
Flat Roof Snow Load (Pfl)..... 28 psf
Minimum Roof Snow Load (Pm)..... 28.00 psf

Wind
Ultimate Wind Speed (Vult)..... 120 mph
Nominal Wind Speed (Vasd)..... 93 mph (IBC Section 1609.3.1)
Serviceability Wind Speed..... 68 mph
Ground Elevation Factor..... 0.85 (4526.00ft ASL)
Wind Exposure Category..... B
Internal Pressure Coefficient (Cp) 0.18 / -0.18
Loads for components not provided by building manufacturer:
Wall Edge Zones (within 5.00' of corner)
19.18 psf pressure
-25.69 psf suction
Other Wall Zones 19.18 psf pressure
-20.81 psf suction

These values are the maximum values required based on a 10 square foot area. Components with larger areas may have lower wind loads.
Zones per ASCE 7-16; FIG. 30.3-1
Zones pressures shown are Un-Factored

Seismic
Seismic Importance Factor (Ie)..... 1.00
Seismic Design Category..... D
Soil Site Class..... d
Ss..... 1.416 g Sds..... 1.132 g
S1..... 0.476 g Sd1..... 0.579 g
Analysis Procedure..... Equivalent Lateral Force

Location...	Int	RF	Front	SW	Back	SW	Left	EW	Right	EW
System...	C4	B3	B3	B3	B3	B3	B3	B3	B3	B3
R.....	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25
Cs.....	0.349	0.349	0.349	0.349	0.349	0.349	0.349	0.349	0.349	0.349

Design Base Shear in kips (V) Transverse 12.02
Design Base Shear in kips (V) Longitudinal 12.10

Basic Structural System (from ASCE 7-16 Table 12.2-1)
System – Basic Force Resisting System
H – Steel System not Specifically Detailed for Seismic Resistance
C4 – Steel Ordinary Moment Frames
B3 – Steel Ordinary Concentric Braced Frames
G2 – Steel Ordinary Cantilevered Column Systems
R – Response Modification Coefficient
Cs – Seismic Response Coefficient
Transverse – Direction Parallel to the Rigid Frames
Longitudinal – Direction Perpendicular to the Rigid Frames

BEJUN ANKLESARIA, PE SE
2918 CREEK TERRACE DR.
MISSOURI CITY TX 77459
281-499-1472

Building Descriptions			
Building ID	Width(ft)	Length(ft)	Height(ft)
Building A	50	80	16
			3.0:12

Columbus, MS. (662) 328-6722
Mount Pleasant, IA, (319) 385-8001
Rocky Mount, NC. (252) 977-2131
www.cecbuildings.com



PROJECT:	NATALIE DAVIDSON		
CUSTOMER:	THE STEEL BUILDER	OWNER:	NATALIE DAVIDSON
LOCATION:	SPARKS, NV 89441-8549 US		
CAD	DATE	SCALE	PHASE
	2/ 3/23	N.T.S.	1
BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
A	19-B-27926	C1	0

Drawing Index

Page	Description
C1	COVER SHEET
F1	ANCHOR BOLT PLAN
F2	ANCHOR BOLT REACTIONS
F3	ANCHOR BOLT DETAILS
E1	ROOF FRAMING PLAN
E2	ROOF SHEETING PLAN
E3	FRONT SIDEWALL
E4	BACK SIDEWALL
E5	LEFT ENDWALL
E6	RIGHT ENDWALL
E7	FRAME CROSS SECTION
DET1-24	STANDARD DETAILS
R1-R3	INSTALLATION SHEETS

DRAWING STATUS

- FOR APPROVAL
These drawings, being For Approval, are by definition not final, and are for conceptual representation only. Their purpose is to confirm proper interpretation of the project documents. Only drawings issued "For Erector Installation" can be considered as complete.
- FOR CONSTRUCTION PERMIT
These drawings, being For Permit, are by definition not final. Only drawings issued "For Erector Installation" can be considered as complete.
- FOR ERECTOR INSTALLATION
Final drawings for construction.

For questions or assistance
Concerning Erection call:
252-977-2131
Monday-Friday 7:30am to 5:00pm

ENGINEERING SEAL

The engineer whose seal appears hereon is an employee for the manufacturer for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.



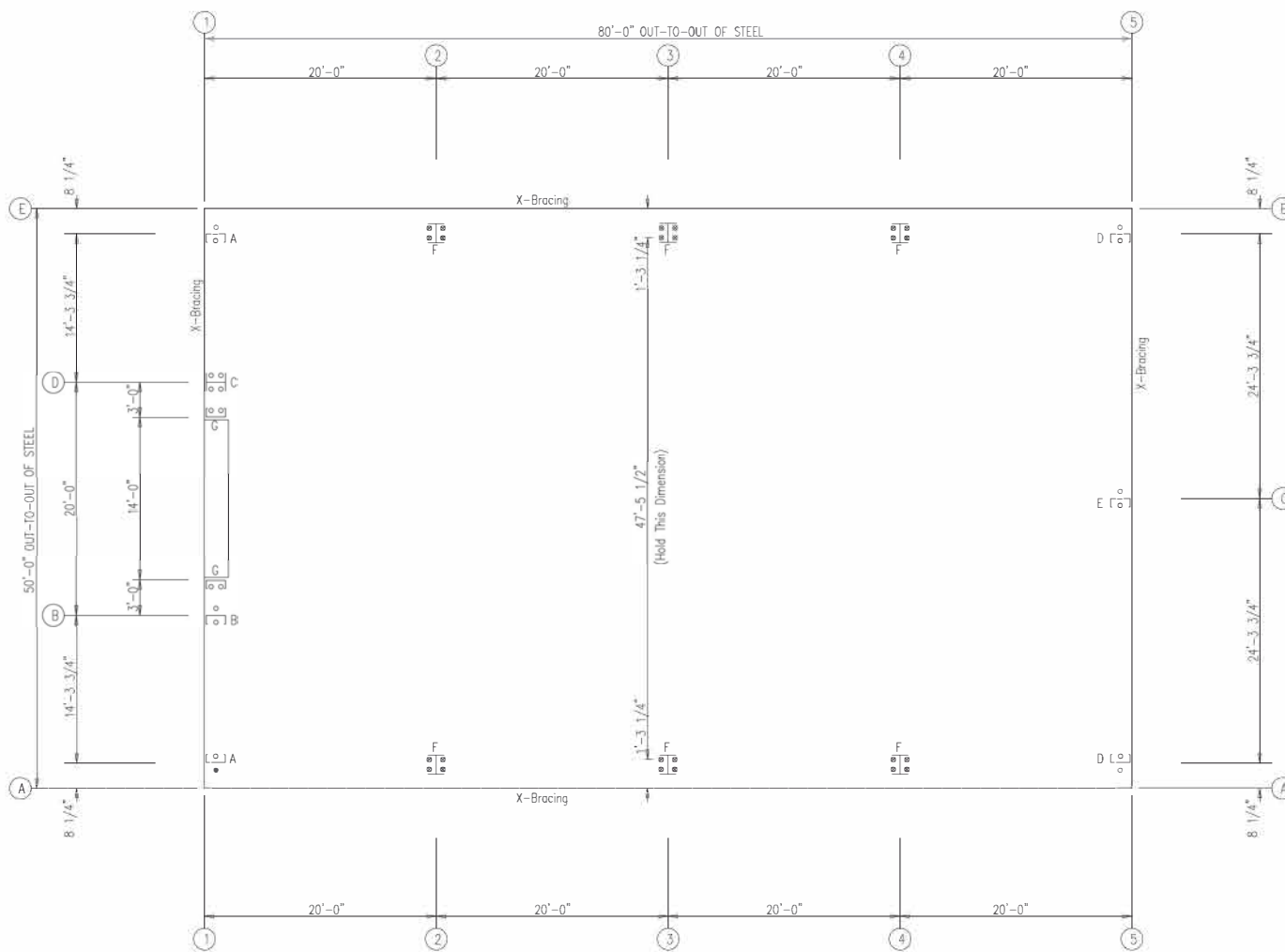
Download panel installation manuals from:
www.cornerstonebuildingbrands.com/installationmanuals/



Descargue las manuales de instalación del panel desde:
www.cornerstonebuildingbrands.com/installationmanuals/

1/2" A325 BOLT GRIP TABLE (UNLESS NOTED)			
GRIP	LENGTH	BOLT LENGTH	NOTE
0 TO 9/16"	1 1/4" F.T.		FULL THREAD ENGAGEMENT IS DEEMED TO HAVE BEEN MET WHEN THE END OF THE BOLT IS FLUSH WITH THE FACE OF THE NUT.
Over 9/16" TO 1 1/16"	1 3/4" F.T.		
Over 1 1/16" TO 1 5/16"	2"		
Over 1 5/16" TO 1 9/16"	2 1/8"		
Over 1 9/16" TO 1 13/16"	2 1/2"		
Over 1 13/16" TO 2 1/16"	2 3/4"		

WASHER REQUIRED ONLY WHEN SPECIFIED.
WASHER MAY BE LOCATED UNDER HEAD OF BOLT, UNDER NUT, OR AT BOTH AT LOCATIONS NOTED ON ERECTION DRAWINGS.
ADD 5/32" FOR EACH WASHER TO MATERIAL THICKNESS TO DETERMINE GRIP.



○ Dia = 5/8"
 ⊗ Dia = 3/4"

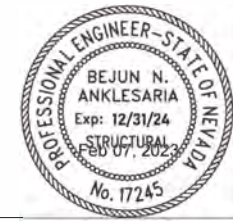
ANCHOR BOLT PLAN

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
0	2/ 3/23	FOR ERECTOR INSTALLATION	IES	IES	SKV



Columbus, MS. (662) 328-6722
 Mount Pleasant, IA. (319) 385-8001
 Rocky Mount, NC. (252) 977-2131
 www.cecobuildings.com

PROJECT:	NATALIE DAVIDSON	OWNER:	NATALIE DAVIDSON				
CUSTOMER:	THE STEEL BUILDER						
LOCATION:	SPARKS, NV 89441-8549 US						
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	2/ 3/23	N.T.S.	1	A	19-B-27926	F1	0



Drawing has been digitally signed.

GENERAL NOTES

- THE REACTIONS PROVIDED ARE BASED ON THE ORDER DOCUMENTS AT THE TIME OF MAILING. ANY CHANGES TO BUILDING LOADS OR DIMENSIONS MAY CHANGE THE REACTIONS. THE REACTIONS WILL BE SUPERSEDED AND VOIDED BY ANY FUTURE MAILING.
- THE REACTIONS PROVIDED HAVE BEEN CREATED WITH THE FOLLOWING LAYOUT (UNLESS NOTICED OTHERWISE):
 - A REACTION TABLE IS PROVIDED WITH REACTIONS FOR EACH LOAD GROUP.
 - RIGID FRAMES
 - SEE NOTE 3.
 - ENDWALLS
 - SEE NOTE 3.
 - X-BRACING
 - X-BRACING REACTIONS ARE INCLUDED IN VALUES SHOWN IN THE REACTION TABLES AS NOTED IN THE BRACING REACTIONS TABLE.
 - FOR IBC AND UBC BASED BUILDING CODES, WHEN X-BRACING IS PRESENT IN THE SIDEWALL, INDIVIDUAL LONGITUDINAL SEISMIC LOADS DO NOT INCLUDE THE AMPLIFICATION FACTOR, Ω_{M0} .
 - FOR IBC AND UBC BASED BUILDING CODES, WHEN X-BRACING IS PRESENT IN THE ENDWALL, INDIVIDUAL TRANSVERSE SEISMIC LOADS DO NOT INCLUDE THE AMPLIFICATION FACTOR, Ω_{M0} .
- THE METAL BUILDING MANUFACTURER IS RESPONSIBLE ONLY FOR THE PORTION OF THE ANCHOR ROD DESIGN PERTAINING TO THE TRANSFER OF FORCES BETWEEN THE BASE PLATE BEARING AND THE ANCHOR RODS SHEAR AND TENSION. THE METAL BUILDING MANUFACTURER IS NOT RESPONSIBLE FOR THE ANCHOR ROD EMBEDMENT FOR TRANSFER OF FORCES TO THE FOUNDATION. THE METAL BUILDING MANUFACTURER DOES NOT DESIGN AND IS NOT RESPONSIBLE FOR THE DESIGN MATERIAL AND CONSTRUCTION OF THE FOUNDATION EMBEDMENT. THE END USER CUSTOMER SHALL ASSURE THAT ADEQUATE PROVISIONS ARE MADE TO THE FOUNDATION DESIGN FOR LOADS IMPOSED BY COLUMN REACTIONS OF THE BUILDING, OTHER IMPOSED LOADS, AND BEARING CAPACITY OF THE SOIL AND OTHER CONDITIONS OF THE BUILDING SITE. IT IS RECOMMENDED THAT THE ANCHORAGE AND FOUNDATION OF THE BUILDING BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER COMPETENT IN THE DESIGN OF SUCH STRUCTURES.
 - (REF. APPENDIX A3 OF THE MBMA METAL BUILDING BUILDING SYSTEMS MANUAL).
- ANCHOR RODS ARE ASTM F1554 GR. 36 MATERIAL UNLESS NOTED OTHERWISE ON THE ANCHOR ROD LAYOUT DRAWING.
- REACTIONS ARE PROVIDED AS UN-FACTORED FOR EACH LOAD GROUP APPLIED TO THE COLUMN. THE FACTORS APPLIED TO LOAD GROUPS FOR THE STEEL COLUMN DESIGN MAY BE DIFFERENT THAN THE FACTORS USED IN THE FOUNDATION DESIGN. THE FOUNDATION ENGINEER SHALL APPLY THE APPROPRIATE LOAD FACTORS AND COMBINE THE REACTIONS IN ACCORDANCE WITH THE BUILDING CODE AND DESIGN SPECIFICATIONS FOR PROPER FOUNDATION DESIGN.
 - FOR PROJECTS USING ULTIMATE DESIGN WIND SPEEDS SUCH AS 2012 IBC, 2015 IBC, OR FLORIDA BUILDING CODE, THE WIND LOAD REACTIONS ARE AT A STRENGTH VALUE WITH A LOAD FACTOR OF 1.0.
 - FOR IBC CODES, THE SEISMIC REACTIONS PROVIDED ARE AT A STRENGTH LEVEL WITH A LOAD FACTOR OF 1.0, AND DO NOT CONTAIN THE RFD FACTOR.

THE MANUFACTURER DOES NOT PROVIDE "MAXIMUM" LOAD COMBINATION REACTIONS; HOWEVER, THE INDIVIDUAL LOAD REACTIONS PROVIDED MAY BE USED BY THE FOUNDATION ENGINEER TO DETERMINE THE APPLICABLE LOAD COMBINATIONS FOR HIS/HER DESIGN PROCEDURES AND ALLOW FOR AN ECONOMICAL FOUNDATION DESIGN.

BUILDING BRACING REACTIONS

Reactions in plane of wall

Loc	Wall Line	Col Line	Reactions(k)		Panel Shear	
			Wind	Seismic	Wind	Seis
L_EW	1	E,D	Bracing, see EW reactions			
F_SW	A	2,3	3.8	7.9		
R_EW	5	C,E	Bracing, see EW reactions			
B_SW	E	3,2	3.8	7.9		

*See RF reactions table for vertical and horizontal reactions in plane of the rigid frame.

ENDWALL COLUMN:

BASIC COLUMN REACTIONS (k)

Frm Line	Col Line	Dead Vert	Collot Vert	Live Vert	Snow Vert	Wind_Left1 Horiz	Wind_Left1 Vert	Wind_Right1 Horiz	Wind_Right1 Vert	Wind_Left2 Horiz	Wind_Left2 Vert	Wind_Right2 Horiz	Wind_Right2 Vert	Wind Press Horiz
1	E	0.2	0.2	1.1	1.6	-1.8	-3.4	0.0	1.7	-1.6	-2.5	0.0	1.9	0.0
1	D	0.7	0.6	4.0	5.6	0.0	-1.3	1.8	-5.0	0.0	-0.7	1.6	-3.7	-2.5
1	B	0.6	0.6	4.0	5.6	0.0	-2.1	0.0	-1.2	0.0	-2.8	0.0	-2.5	0.0
1	A	0.2	0.2	1.1	1.6	0.0	-1.2	0.0	-0.9	0.0	-0.6	0.0	-0.4	0.0

Frm Line	Col Line	Wind Suct Horiz	Wind_Long1 Horiz	Wind_Long2 Horiz	Seis_Left Horiz	Seis_Right Horiz	Seis Long Horiz	-MIN_SNOW-- Horiz
1	E	0.0	-0.7	-0.5	-1.6	-2.5	-3.1	0.0
1	D	2.7	0.5	-3.9	0.0	-1.3	0.0	3.1
1	B	2.7	0.0	-2.0	0.0	-3.1	0.0	2.5
1	A	0.0	-0.9	0.0	-1.5	0.0	-0.2	0.0

Frm Line	Col Line	Wind Suct Horiz	E1UNB_SL_L-- Horiz	E1UNB_SL_R-- Horiz
1	E	0.0	1.5	0.0
1	D	0.0	6.6	0.0
1	B	0.0	2.6	0.0
1	A	0.0	0.3	0.0

Frm Line	Col Line	Dead Vert	Collot Vert	Live Vert	Snow Vert	Wind_Left1 Horiz	Wind_Left1 Vert	Wind_Right1 Horiz	Wind_Right1 Vert	Wind_Left2 Horiz	Wind_Left2 Vert	Wind_Right2 Horiz	Wind_Right2 Vert	Wind Press Horiz
5	A	0.4	0.3	1.9	2.7	0.0	-1.8	0.0	-1.5	0.0	-1.1	0.0	-0.7	0.0
5	C	1.1	1.0	5.9	8.7	-1.8	-6.5	0.0	-3.0	-1.6	-1.8	0.0	-1.7	-4.0
5	E	0.4	0.3	1.9	2.7	0.0	0.5	1.8	-3.4	0.0	1.0	1.6	-2.5	0.0

Frm Line	Col Line	Wind Suct Horiz	Wind_Long1 Horiz	Wind_Long2 Horiz	Seis_Left Horiz	Seis_Right Horiz	Seis Long Horiz	-MIN_SNOW-- Horiz
5	A	0.0	-2.3	0.0	-1.2	0.0	-0.2	0.0
5	C	4.3	0.0	-3.6	-0.5	-4.6	-2.7	0.0
5	E	0.0	0.5	-1.6	0.0	1.7	0.0	2.6

Frm Line	Col Line	E2UNB_SL_L-- Horiz	E2UNB_SL_R-- Horiz	E2PAT_LL_1-- Horiz	E2PAT_LL_2-- Horiz
5	A	0.0	3.3	0.0	2.2
5	C	0.0	7.3	0.0	3.0
5	E	0.0	0.4	0.0	3.3

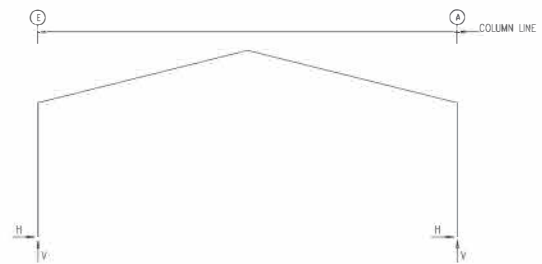
NOTES FOR REACTIONS

BUILDING REACTIONS ARE BASED ON THE FOLLOWING BUILDING DATA:

WIDTH (FT) = 50
 DEPTH (FT) = 80
 EAVE HEIGHT (FT) = 16 / 16
 ROOF SLOPE (deg/12) = 3.0/12
 DEAD LOAD (psf) = 1,920
 COLLATERAL LOAD (psf) = 3
 ROOF LIVE LOAD (psf) = 20.00 (Reduce) = 12
 FRAME LIVE LOAD (psf) = 12
 FLAT ROOF SNOW LOAD (psf) = 28
 GROUND SNOW LOAD (psf) = 40.00
 ULTIMATE WIND SPEED (MILE) = 120 mph
 NOMINAL WIND SPEED (WASD) = 93 mph (IBC Section 1609.3.1)
 SERVICEABILITY WIND SPEED = 68 mph
 WIND CODE = B
 EXPOSURE = B
 CLOSED/OPEN = Closed
 IMPORTANCE - WIND = 1.00
 IMPORTANCE - SEISMIC = 1.00
 SEISMIC ZONE = 0

REACTION KEY:
 WIND Left/Right 1 = (with +Cp) Internal Pressure
 WIND Left/Right 2 = (with -Cp) Internal Pressure
 Wind_Long 1 = Wind Load Case B at Left EW
 Wind_Long 2 = Wind Load Case B at Right EW
 MIN_SNOW = Minimum Snow (Pm) per code
 E1UNB_SL_L = Endwall Unbalanced Snow Left
 E1UNB_SL_R = Endwall Unbalanced Snow Right
 F1UNB_SL_L = Rigid Frame Unbalanced Snow Left
 F1UNB_SL_R = Rigid Frame Unbalanced Snow Right

FRAME LINES: 2 3 4



RIGID FRAME: ANCHOR BOLTS & BASE PLATES

Frm Line	Col Line	Anchor Qty	Anchor Dia	Base Plate Width	Base Plate Length	Base Plate Thick	Grout (in)
2*	E	4	0.750	6.000	10.500	0.375	0.0
2*	A	4	0.750	6.000	10.500	0.375	0.0

2* Frame lines: 2 3 4

RIGID FRAME: BASIC COLUMN REACTIONS (k)

Frame Column Line	Dead Horiz	Collateral Horiz	Live Horiz	Snow Horiz	Wind_Left1 Horiz	Wind_Left1 Vert	Wind_Right1 Horiz	Wind_Right1 Vert
2*	E	0.8	1.6	0.7	1.5	2.9	6.0	6.7
2*	A	-0.6	1.6	-0.7	1.5	-2.9	6.0	-6.7

Frame Column Line	Wind_Left2 Horiz	Wind_Left2 Vert	Wind_Long1 Horiz	Wind_Long1 Vert	Wind_Long2 Horiz	Wind_Long2 Vert	Seismic_Left Horiz	Seismic_Left Vert	Seismic_Right Horiz	Seismic_Right Vert
2*	E	-5.7	-5.1	0.4	-2.0	-0.6	-9.8	-1.3	-9.8	-1.8
2*	A	-0.4	-2.0	5.7	-5.1	1.3	-9.8	0.6	-9.8	-1.8

Frame Column Line	Seismic_Long Horiz	-MIN_SNOW-- Horiz	F1UNB_SL_L-- Horiz	F1UNB_SL_R-- Horiz
2*	A	0.0	-5.6	6.7
2*	A	0.0	-5.6	6.7

2* Frame lines: 2 3 4

ENDWALL COLUMN: ANCHOR BOLTS & BASE PLATES

Frm Line	Col Line	Anchor Qty	Anchor Dia	Base Plate Width	Base Plate Length	Base Plate Thick	Grout (in)
1	E	2	0.625	7.000	8.000	0.250	0.0
1	D	4	0.625	6.000	8.000	0.375	0.0
1	B	2	0.625	7.000	8.000	0.250	0.0
1	A	2	0.625	7.000	8.000	0.250	0.0
5	A	2	0.625	7.000	12.000	0.250	0.0
5	C	2	0.625	7.000	12.000	0.250	0.0
5	E	2	0.625	7.000	12.000	0.250	0.0

ANCHOR BOLT SUMMARY

Qty	Locate	Dia (in)	Type	Proj (in)
4	Jamb	5/8"	F1554	2.00
16	Endwall	5/8"	F1554	2.00
8	24	Frame	3/4"	F1554

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
0	2/3/23	FOR ERECTOR INSTALLATION	IES	IES	SKV



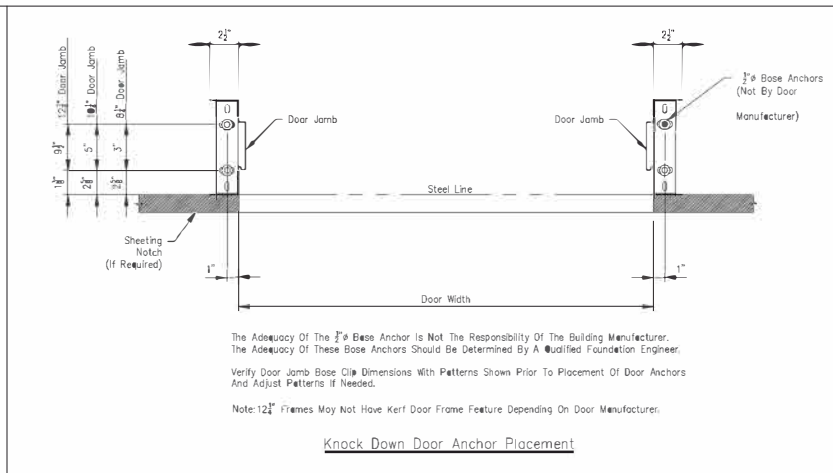
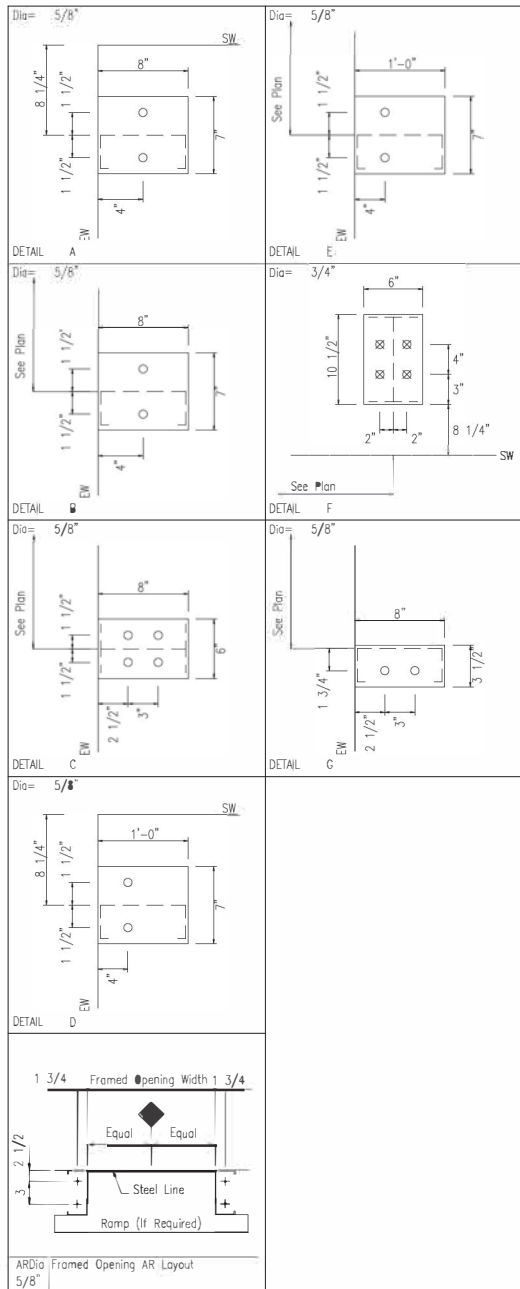
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PROJECT:	NATALIE DAVIDSON	OWNER:	NATALIE DAVIDSON				
CUSTOMER:	THE STEEL BUILDER	LOCATION:	SPARKS, NV 89441-8549 US				
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	2/3/23	N.T.S.	1	A	19-B-27926	F2	0



FLOOR REACTION NOTE:

FOR VERTICAL LOADS, UPWARD IS POSITIVE AND DOWNWARD IS NEGATIVE. FOR HORIZONTAL REACTIONS, TO THE RIGHT IS POSITIVE AND TO THE LEFT IS NEGATIVE. FOUNDATION LOADS ARE IN OPPOSITE DIRECTIONS.



ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
0	2/ 3/23	FOR ERECTOR INSTALLATION	IES	IES	SKV

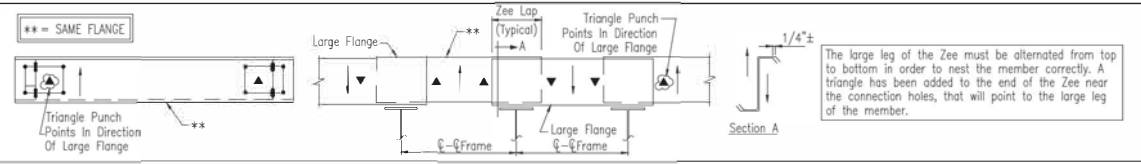
CECO Building Systems

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PROJECT: NATALIE DAVIDSON
 CUSTOMER: THE STEEL BUILDER OWNER: NATALIE DAVIDSON
 LOCATION: SPARKS, NV 89441-8549 US

CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	2/ 3/23	N.T.S.	1	A	19-B-27926	F3	0





SPECIAL BOLTS

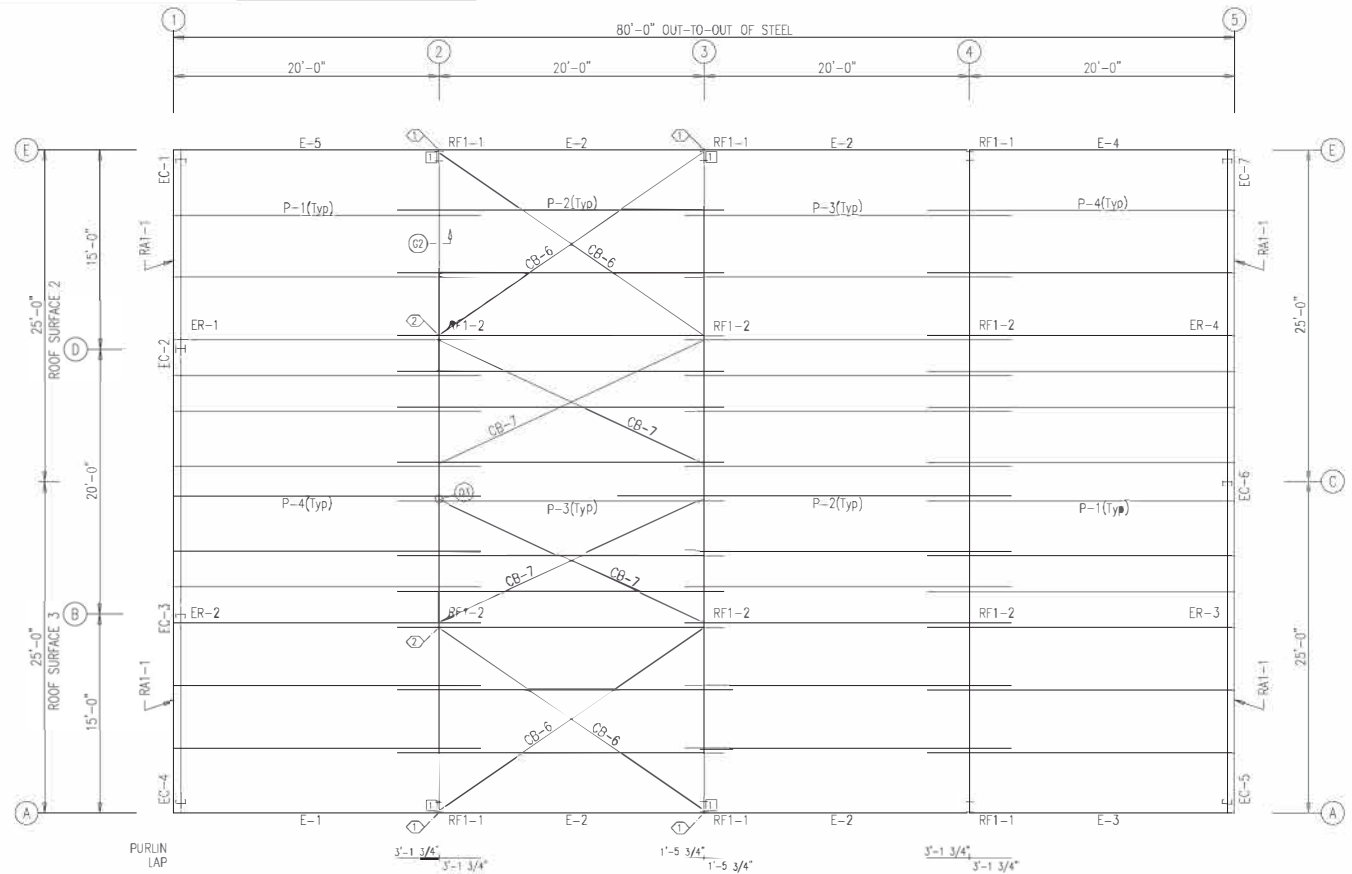
ID	QUAN	TYPE	DIA	LENGTH	WASH
1	4	A325	1/2"	1 1/4"	0
2	2	A325	1/2"	1 1/4"	2

MEMBER TABLE

MARK	PART	LENGTH
P-1	8X25Z16	23'-1 1/2"
P-2	8X25Z16	24'-7 1/2"
P-3	8X25Z16	24'-7 1/2"
P-4	8X25Z16	23'-1 1/2"
E-1	8ESS14	19'-11 1/2"
E-2	8ESS14	19'-11 1/2"
E-3	8ESS14	19'-11 1/2"
E-4	8ESS14	19'-11 1/2"
E-5	8ESS14	19'-11 1/2"
CB-6	5/8" DIA. ROD	24'-6"
CB-7	1/2" DIA. ROD	22'-8"

CONNECTION PLATES

MARK	PART	LENGTH
RF1-1	RF1-1	23'-1 1/2"
RF1-2	RF1-2	24'-7 1/2"
RF1-3	RF1-3	24'-7 1/2"
RF1-4	RF1-4	23'-1 1/2"
RF1-5	RF1-5	23'-1 1/2"
RF1-6	RF1-6	24'-7 1/2"
RF1-7	RF1-7	24'-7 1/2"
RF1-8	RF1-8	23'-1 1/2"
RF1-9	RF1-9	23'-1 1/2"
RF1-10	RF1-10	24'-7 1/2"
RF1-11	RF1-11	24'-7 1/2"
RF1-12	RF1-12	23'-1 1/2"
RF1-13	RF1-13	23'-1 1/2"
RF1-14	RF1-14	24'-7 1/2"
RF1-15	RF1-15	24'-7 1/2"
RF1-16	RF1-16	23'-1 1/2"
RF1-17	RF1-17	23'-1 1/2"
RF1-18	RF1-18	24'-7 1/2"
RF1-19	RF1-19	24'-7 1/2"
RF1-20	RF1-20	23'-1 1/2"
RF1-21	RF1-21	23'-1 1/2"
RF1-22	RF1-22	24'-7 1/2"
RF1-23	RF1-23	24'-7 1/2"
RF1-24	RF1-24	23'-1 1/2"
RF1-25	RF1-25	23'-1 1/2"
RF1-26	RF1-26	24'-7 1/2"
RF1-27	RF1-27	24'-7 1/2"
RF1-28	RF1-28	23'-1 1/2"
RF1-29	RF1-29	23'-1 1/2"
RF1-30	RF1-30	24'-7 1/2"
RF1-31	RF1-31	24'-7 1/2"
RF1-32	RF1-32	23'-1 1/2"
RF1-33	RF1-33	23'-1 1/2"
RF1-34	RF1-34	24'-7 1/2"
RF1-35	RF1-35	24'-7 1/2"
RF1-36	RF1-36	23'-1 1/2"
RF1-37	RF1-37	23'-1 1/2"
RF1-38	RF1-38	24'-7 1/2"
RF1-39	RF1-39	24'-7 1/2"
RF1-40	RF1-40	23'-1 1/2"
RF1-41	RF1-41	23'-1 1/2"
RF1-42	RF1-42	24'-7 1/2"
RF1-43	RF1-43	24'-7 1/2"
RF1-44	RF1-44	23'-1 1/2"
RF1-45	RF1-45	23'-1 1/2"
RF1-46	RF1-46	24'-7 1/2"
RF1-47	RF1-47	24'-7 1/2"
RF1-48	RF1-48	23'-1 1/2"
RF1-49	RF1-49	23'-1 1/2"
RF1-50	RF1-50	24'-7 1/2"
RF1-51	RF1-51	24'-7 1/2"
RF1-52	RF1-52	23'-1 1/2"
RF1-53	RF1-53	23'-1 1/2"
RF1-54	RF1-54	24'-7 1/2"
RF1-55	RF1-55	24'-7 1/2"
RF1-56	RF1-56	23'-1 1/2"
RF1-57	RF1-57	23'-1 1/2"
RF1-58	RF1-58	24'-7 1/2"
RF1-59	RF1-59	24'-7 1/2"
RF1-60	RF1-60	23'-1 1/2"
RF1-61	RF1-61	23'-1 1/2"
RF1-62	RF1-62	24'-7 1/2"
RF1-63	RF1-63	24'-7 1/2"
RF1-64	RF1-64	23'-1 1/2"
RF1-65	RF1-65	23'-1 1/2"
RF1-66	RF1-66	24'-7 1/2"
RF1-67	RF1-67	24'-7 1/2"
RF1-68	RF1-68	23'-1 1/2"
RF1-69	RF1-69	23'-1 1/2"
RF1-70	RF1-70	24'-7 1/2"
RF1-71	RF1-71	24'-7 1/2"
RF1-72	RF1-72	23'-1 1/2"
RF1-73	RF1-73	23'-1 1/2"
RF1-74	RF1-74	24'-7 1/2"
RF1-75	RF1-75	24'-7 1/2"
RF1-76	RF1-76	23'-1 1/2"
RF1-77	RF1-77	23'-1 1/2"
RF1-78	RF1-78	24'-7 1/2"
RF1-79	RF1-79	24'-7 1/2"
RF1-80	RF1-80	23'-1 1/2"
RF1-81	RF1-81	23'-1 1/2"
RF1-82	RF1-82	24'-7 1/2"
RF1-83	RF1-83	24'-7 1/2"
RF1-84	RF1-84	23'-1 1/2"
RF1-85	RF1-85	23'-1 1/2"
RF1-86	RF1-86	24'-7 1/2"
RF1-87	RF1-87	24'-7 1/2"
RF1-88	RF1-88	23'-1 1/2"
RF1-89	RF1-89	23'-1 1/2"
RF1-90	RF1-90	24'-7 1/2"
RF1-91	RF1-91	24'-7 1/2"
RF1-92	RF1-92	23'-1 1/2"
RF1-93	RF1-93	23'-1 1/2"
RF1-94	RF1-94	24'-7 1/2"
RF1-95	RF1-95	24'-7 1/2"
RF1-96	RF1-96	23'-1 1/2"
RF1-97	RF1-97	23'-1 1/2"
RF1-98	RF1-98	24'-7 1/2"
RF1-99	RF1-99	24'-7 1/2"
RF1-100	RF1-100	23'-1 1/2"



ROOF FRAMING PLAN

- 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.

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
0	2/ 3/23	FOR ERECTOR INSTALLATION	IES	IES	SAV

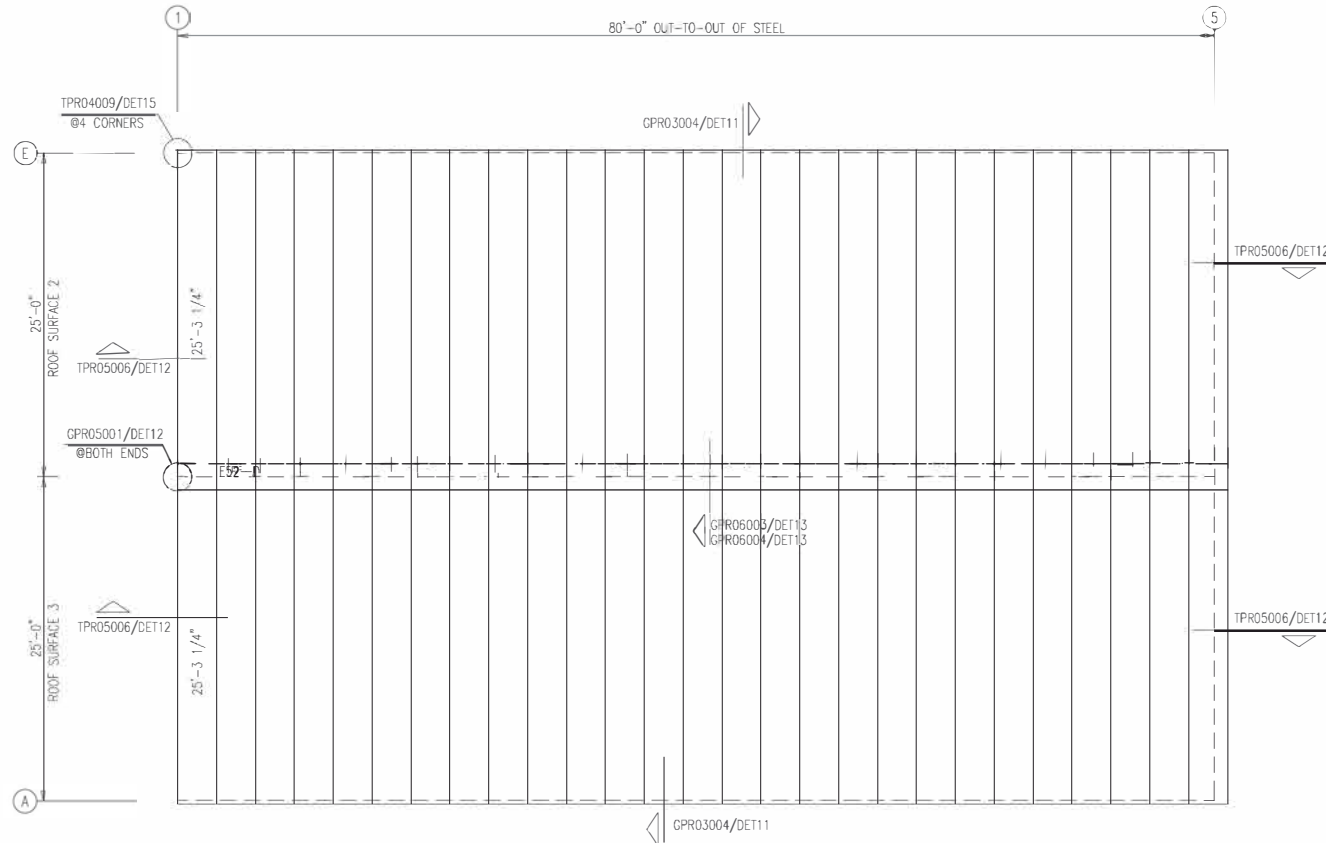


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PROJECT:	NATALIE DAVIDSON	
CUSTOMER:	THE STEEL BUILDER	OWNER: NATALIE DAVIDSON
LOCATION:	SPARKS, NV 89441-8549 US	
CAD	DATE	SCALE
	2/ 3/23	N.T.S.
PHASE	BUILDING ID	JOB NUMBER
1	A	19-B-27926
SHEET NUMBER	ISSUE	
E1	0	



PBR ROOF SHEETING NOTE:
 PBR ROOF PANELS ARE TO BE FIELD CUT IF THE PANELS EXTEND
 OUTSIDE OF THE ROOF PLANE, PANELS ARE NOT TO BE BACK LAPPED.



NOTE: (8 QTY)
 LTP'S TO BE FIELD LOCATED
 & FIELD CUT (BY OTHERS)
 INSTALLATION MUST COMPLY
 WITH OSHA REQUIREMENTS

ROOF SHEETING PLAN
 PANELS: 26 Gauge PBR - Galvalume

- 1) 8 QTY OF LTP'S ARE FIELD SEE DETAIL GPR25100/DET17
- 2) 1 QTY OF RIDGE VENT IS FIELD SEE DETAIL GPR13202/DET16

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.

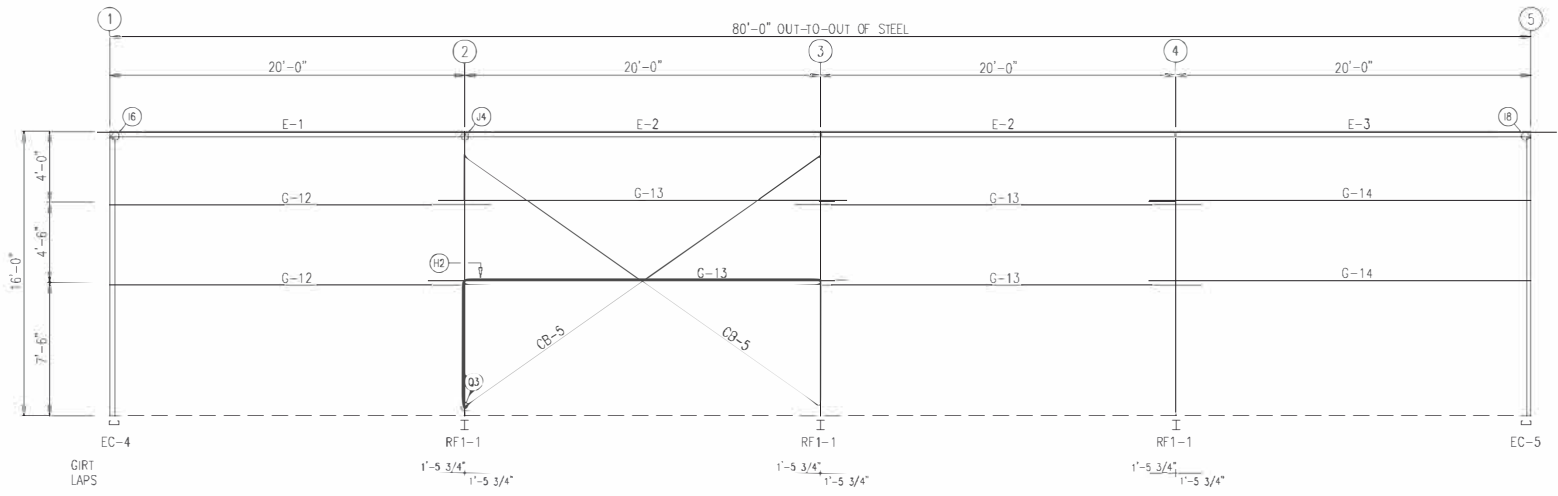
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0	2/ 3/23	FOR ERECTOR INSTALLATION	IES	IES	SKV

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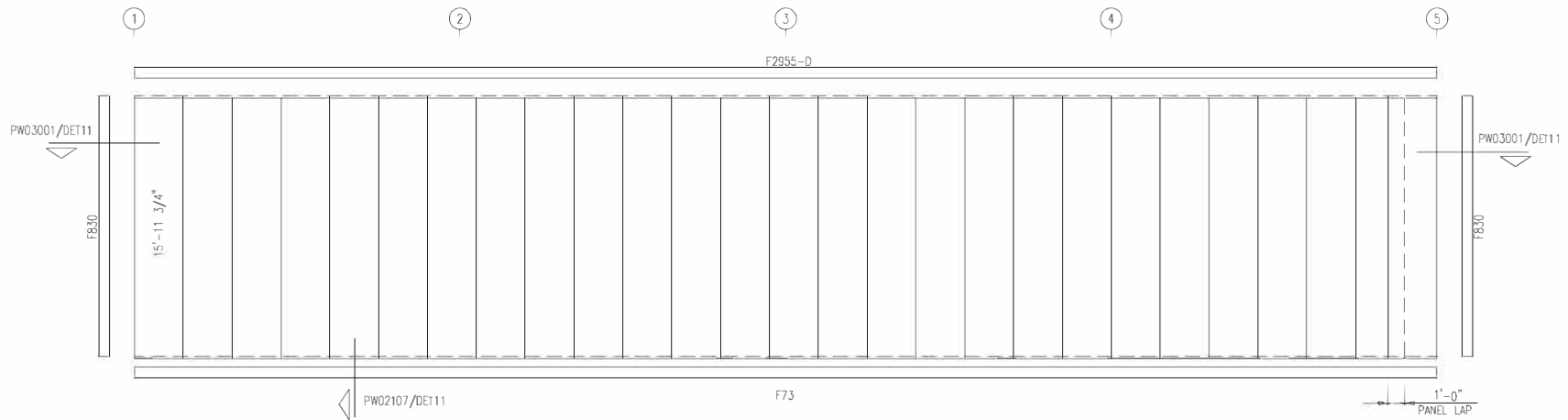
PROJECT:	NATALIE DAVIDSON						
CUSTOMER:	THE STEEL BUILDER	OWNER:	NATALIE DAVIDSON				
LOCATION:	SPARKS, NV 89441-8549 US						
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	2/ 3/23	N.T.S.	1	A	19-B-27926	E2	0



MEMBER TABLE		
FRAME LINE A		
MARK	PART	LENGTH
E-1	8ES3L14	19'-11 1/2"
E-2	8ES3L14	19'-11 1/2"
E-3	8ES3L14	19'-11 1/2"
G-12	8X25Z16	21'-5 1/2"
G-13	8X25Z16	22'-11 1/2"
G-14	8X25Z16	21'-5 1/2"
CB-5	3/4" DIA. RO	25'-4"



SIDEWALL FRAMING: FRAME LINE A



SIDEWALL SHEETING & TRIM: FRAME LINE A

PANELS: 26 Couge PBR - Polar White

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
0	2/ 3/23	FOR ERECTOR INSTALLATION	IES	IES	SAV



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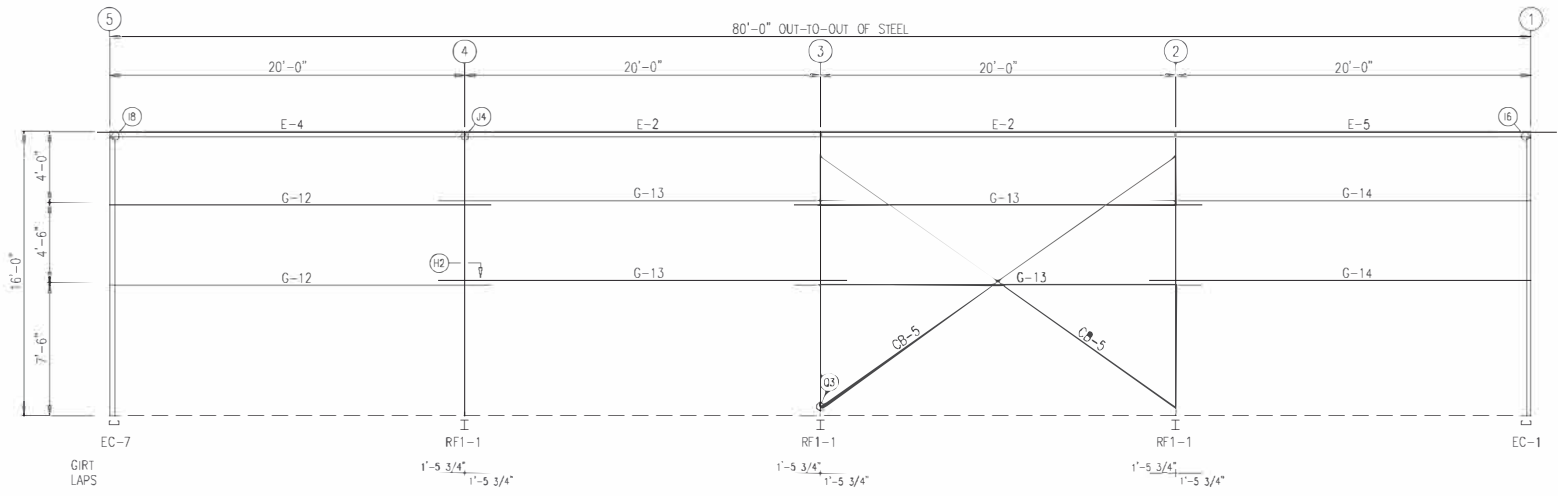
PROJECT:	NATALIE DAVIDSON						
CUSTOMER:	THE STEEL BUILDER			OWNER: NATALIE DAVIDSON			
LOCATION:	SPARKS, NV 89441-8549 US						
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	2/ 3/23	N.T.S.	1	A	19-B-27926	E3	0

GENERAL NOTES:

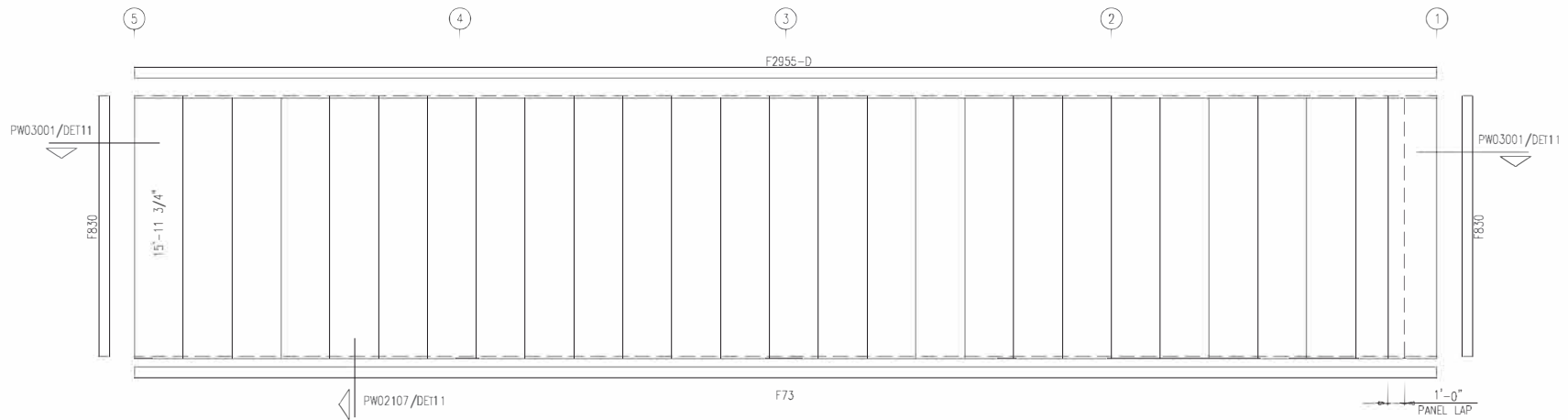
1. INSTALL ALL GIRTS AND FLANGE BRACES (FB) AS SHOWN.
2. WALL PANEL PROVIDES STRUCTURAL STABILITY TO THE BUILDING.
3. OTHER THAN FOR WALK DOORS AND WINDOWS SHOWN ON THE CONTRACT, DO NOT ADD ADDITIONAL WALL OPENINGS WITHOUT APPROVAL OF BUILDING MANUFACTURER OR PROFESSIONAL ENGINEER.
4. AFTER INSTALLATION, WIPE ALL PANELS CLEAN OF METAL SHAVINGS CAUSED BY DRILLING.



MEMBER TABLE		
FRAME LINE E		
MARK	PART	LENGTH
E-2	8ES3L14	19'-11 1/2"
E-4	8ES3L14	19'-11 1/2"
E-5	8ES3L14	19'-11 1/2"
G-12	8X25216	21'-5 1/2"
G-13	8X25216	22'-11 1/2"
G-14	8X25216	21'-5 1/2"
CB-5	3/4" DIA. RO	25'-4"



SIDEWALL FRAMING: FRAME LINE E



SIDEWALL SHEETING & TRIM: FRAME LINE E

PANELS: 26 Gauge PBR - Polar White

- GENERAL NOTES:**
1. INSTALL ALL GIRTS AND FLANGE BRACES (FB) AS SHOWN.
 2. WALL PANEL PROVIDES STRUCTURAL STABILITY TO THE BUILDING.
 3. OTHER THAN FOR WALK DOORS AND WINDOWS SHOWN ON THE CONTRACT, DO NOT ADD ADDITIONAL WALL OPENINGS WITHOUT APPROVAL OF BUILDING MANUFACTURER OR PROFESSIONAL ENGINEER.
 4. AFTER INSTALLATION, WIPE ALL PANELS CLEAN OF METAL SHAVINGS CAUSED BY DRILLING.

ISSUE	DATE	DESCRIPTION	BY	CHK'D	DSN
0	2/ 3/23	FOR ERECTOR INSTALLATION	IES	IES	SAV



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PROJECT: NATALIE DAVIDSON		OWNER: NATALIE DAVIDSON					
CUSTOMER: THE STEEL BUILDER							
LOCATION: SPARKS, NV 89441-8549 US							
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	2/ 3/23	N.T.S.	1	A	19-B-27926	E4	0



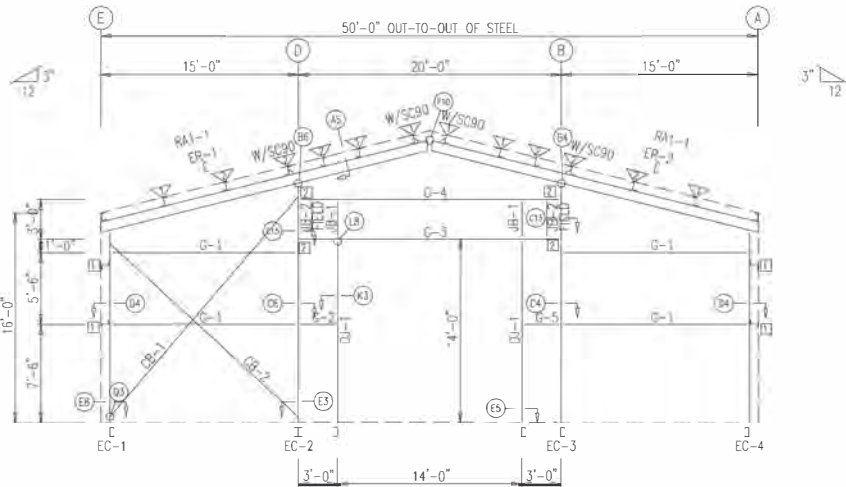
BEARING FRAME ONLY!
 WASHER TO BE USED AT ENDWALL COLUMN TO ENDWALL
 RAFTER CONNECTION. USE ONE WASHER ON COLUMN SIDE.
 WASHER NOT NEEDED ON CLIP SIDE.

BOLT TABLE FRAME LINE 1				
LOCATION	QUAN	TYPE	DIA	LENGTH
ER-1/ER-2	8	A325	5/8"	1 3/4"
Columns/Ref	4	A325	1/2"	1 1/4"

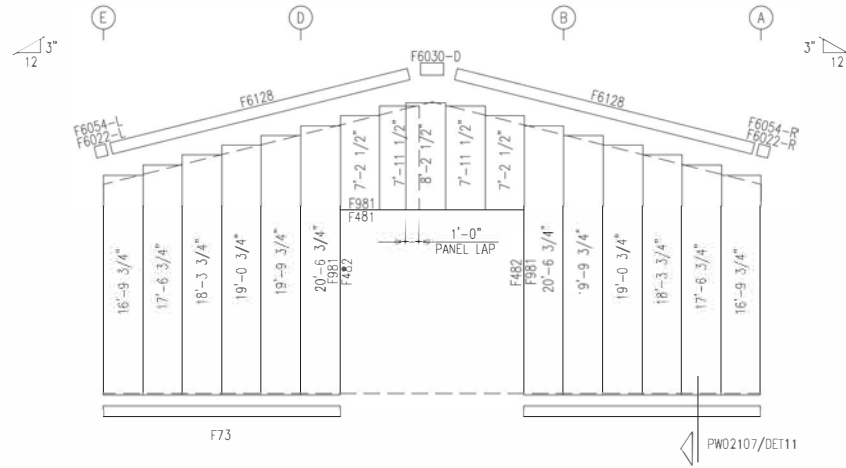
MEMBER TABLE FRAME LINE 1		
MARK	PART	LENGTH
EC-1	8F35C13	14'-6 1/4"
EC-2	W6x10	18'-1 3/16"
EC-3	8F25C12	18'-1 3/16"
EC-4	8F25C14	14'-6 1/4"
ER-1	10F35C12	25'-9"
ER-2	10F35C12	25'-9"
DJ-1	8X35C14	14'-0"
JB-1	8X35C14	3'-0"
JB-2	8X35C14	2'-4"
G-1	8X25216	13'-7 3/4"
G-2	8X25216	2'-4 1/4"
G-3	8X35C14	19'-7 3/4"
G-4	8X25216	19'-7 3/4"
G-5	8X25216	2'-8"
CB-1	1/2" DIA. ROD	2'-8"
CB-2	1/2" DIA. ROD	2'-8"

FLANGE BRACE TABLE FRAME LINE 1		
MARK	ID PART	LENGTH
1	FB30 L2X2X1/4C	2'-6"
2	FB6-1 L2X2X1/8	2'-6"

CONNECTION PLATES FRAME LINE 1	
ID	MARK/PART
1	SCS
2	CL751



ENDWALL FRAMING; FRAME LINE 1



ENDWALL SHEETING & TRIM; FRAME LINE 1

PANELS: 26 Gauge PBR - Polar White

REFER DETAIL CF02035 FOR SC90 PLATE

GENERAL NOTES:

1. INSTALL ALL GIRTS AND FLANGE BRACES (FB) AS SHOWN.
2. WALL PANEL PROVIDES STRUCTURAL STABILITY TO THE BUILDING.
3. OTHER THAN FOR WALK DOORS AND WINDOWS SHOWN ON THE CONTRACT, DO NOT ADD ADDITIONAL WALL OPENINGS WITHOUT APPROVAL OF BUILDING MANUFACTURER OR PROFESSIONAL ENGINEER.
4. AFTER INSTALLATION, WIPE ALL PANELS CLEAN OF METAL SHAVINGS CAUSED BY DRILLING.

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
0	2/ 3/23	FOR ERECTOR INSTALLATION	IES	IES	SKV

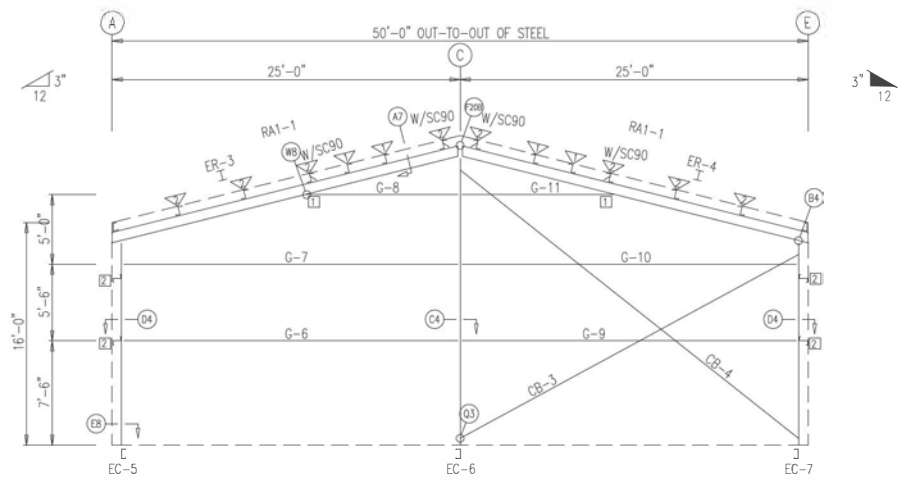


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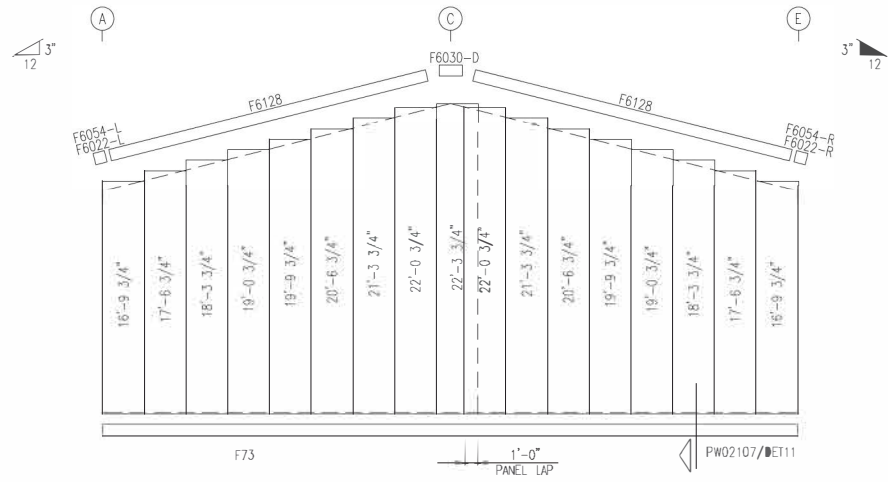
PROJECT: NATALIE DAVIDSON		OWNER: NATALIE DAVIDSON	
CUSTOMER: THE STEEL BUILDER			
LOCATION: SPARKS, NV 89441-8549 US			
CAD	DATE	SCALE	PHASE
	2/ 3/23	N.T.S.	T
BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
A	19-B-27926	E5	0

Drawing has been digitally signed.





ENDWALL FRAMING: FRAME LINE 5



ENDWALL SHEETING & TRIM: FRAME LINE 5

PANELS: 26 Gauge PBR - Polar White

BEARING FRAME ONLY!
 WASHER TO BE USED AT ENDWALL COLUMN TO ENDWALL RAFTER CONNECTION. USE ONE WASHER ON COLUMN SIDE. WASHER NOT NEEDED ON CLIP SIDE.

BOLT TABLE				
FRAME LINE 5				
LOCATION	QUAN	TYPE	DIA	LENGTH
ER-3/ER-4	8	A325	5/8"	2"
Cor_Column/Raf	4	A325	1/2"	1 1/4"
EC-6/ER-3	4	A325	5/8"	1 1/4"

MEMBER TABLE		
FRAME LINE 5		
MARK	PART	LENGTH
EC-5	12F25C14	14'-6 3/8"
EC-6	12F35C12	20'-4 3/4"
EC-7	12F35C14	14'-6 3/8"
ER-3	W10X12	25'-9"
ER-4	W10X12	25'-9"
G-6	8X35213	23'-7 3/4"
G-7	8X35214	23'-7 3/4"
G-8	8X25216	9'-1 3/4"
G-9	8X35213	23'-11 1/2"
G-10	8X35214	23'-11 1/2"
G-11	8X25216	9'-1 3/4"
CB-3	1/2" DIA. ROD	28'-4"
CB-4	1/2" DIA. ROD	31'-7"

FLANGE BRACE TABLE			
FRAME LINE 5			
MARK	∇ ID	PART	LENGTH
1	FB29.8	L2X2X1/4G	2'-5 3/4"
2	FB6-2	L2X2X1/8	2'-5 3/4"

CONNECTION PLATES	
FRAME LINE 5	
ID	MARK/PART
1	CLS49
2	SC5

REFER DETAIL CF02035 FOR SC90 PLATE

- GENERAL NOTES:**
1. INSTALL ALL GIRTS AND FLANGE BRACES (FB) AS SHOWN.
 2. WALL PANEL PROVIDES STRUCTURAL STABILITY TO THE BUILDING.
 3. OTHER THAN FOR WALK DOORS AND WINDOWS SHOWN ON THE CONTRACT, DO NOT ADD ADDITIONAL WALL OPENINGS WITHOUT APPROVAL OF BUILDING MANUFACTURER OR PROFESSIONAL ENGINEER.
 4. AFTER INSTALLATION, WIPE ALL PANELS CLEAN OF METAL SHAVINGS CAUSED BY DRILLING.

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
0	2/ 3/23	FOR ERECTOR INSTALLATION	IES	IES	SKV



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PROJECT:	NATALIE DAVIDSON	
CUSTOMER:	THE STEEL BUILDER	OWNER: NATALIE DAVIDSON
LOCATION:	SPARKS, NV 89441-4549 US	
CAD	DATE	SCALE
	2/ 3/23	N.T.S.
PHASE	BUILDING ID	JOB NUMBER
T	A	19-B-27926
SHEET NUMBER	ISSUE	
E6	0	



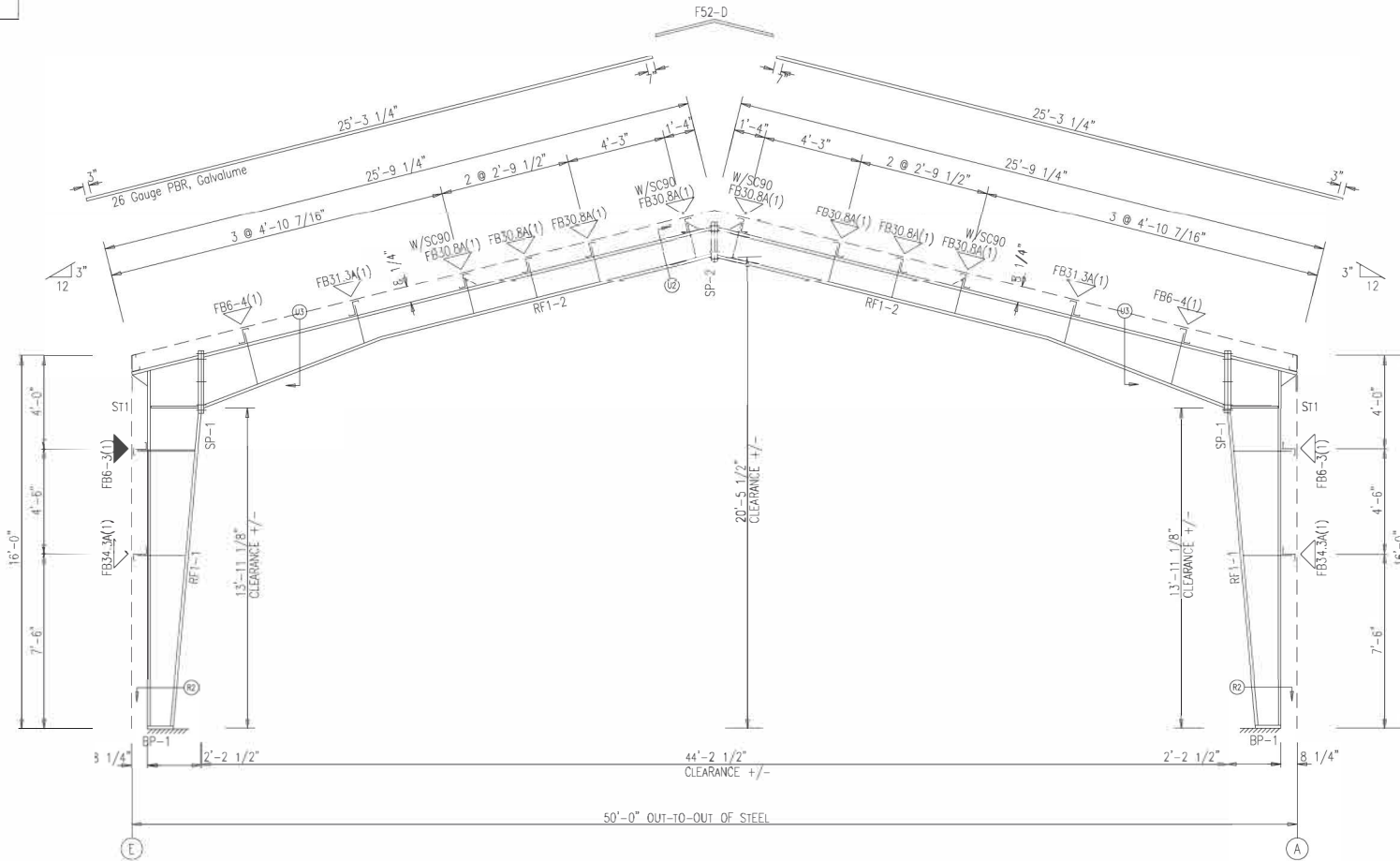
SPLICE PLATE & BOLT TABLE									
Mark	Qty Top	Qty Bot	Int	Type	Dia	Length	Width	Thick	Length
SP-1	4	4	2	A325	3/4"	2"	6"	1/2"	2'-7 5/8"
SP-2	4	4	0	A325	3/4"	1 3/4"	6"	3/8"	1'-7 1/8"

STIFFENER TABLE				
Mark	Stiff Mark	Width	Thick	Plate Size Length
RF1-1	ST1	2 1/2	1/4"	26"

BASE PLATE TABLE				
Col Mark	Width	Thick	Plate Size	Length
BP-1	8"	3/8"	10 1/2"	

MEMBER TABLE					
Mark	Web Start/End	Web Depth	Web Thick	Web Length	Plate
RF1-1	10.0/26.0	10.0	0.134	191.5	5 x 1/4" x 184.9
RF1-2	24.0/12.0	12.0	0.134	98.3	5 x 1/4" x 240.0
					5 x 1/4" x 32.2
					5 x 1/4" x 176.9

FLANGE BRACES: FBxx (1 or 2)
 xx=length(in)
 (1) One Side; (2) Two Sides
 A - L2X2X1/8
 FB6 - L2X2X1/8



REFER DETAIL CF02035 FOR SC90 PLATE

RIGID FRAME ELEVATION: FRAME LINE 2 3 4

GENERAL NOTES:

- BOLT TIGHTENING-BOLTED JOINTS WITH ASTM A325 TYPE 1 BOLTS GREATER THAN 1/2" DIAMETER ARE SPECIFIED AS PRETENSIONED JOINTS IN ACCORDANCE WITH THE MOST RECENT EDITION OF THE RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS. PRETENSIONING CAN BE ACCOMPLISHED BY USING THE TURN-OF-NUT METHOD OF TIGHTENING, CALIBRATED WRENCH, TWIST-OFF-TYPE TENSION-CONTROL BOLTS OR DIRECT-TENSION INDICATOR AS ACCEPTABLE TO THE INSPECTING AGENCY AND BUILDING OFFICIAL. INSTALLATION INSPECTION REQUIREMENTS FOR PRETENSIONED JOINTS (SPECIFICATION FOR STRUCTURAL JOINTS SECTION 9.2) USING TURN-OF-NUT METHOD IS SUGGESTED. THE CONNECTIONS ON THIS PROJECT ARE NOT SLIP CRITICAL.
- ALL FIELD CONNECTIONS OF SECONDARY FRAMING SHALL BE BOLTED WITH A325 BOLTS.
- INSTALL ALL FLANGE BRACES ON COLUMN AND RAFTER AS SHOWN.

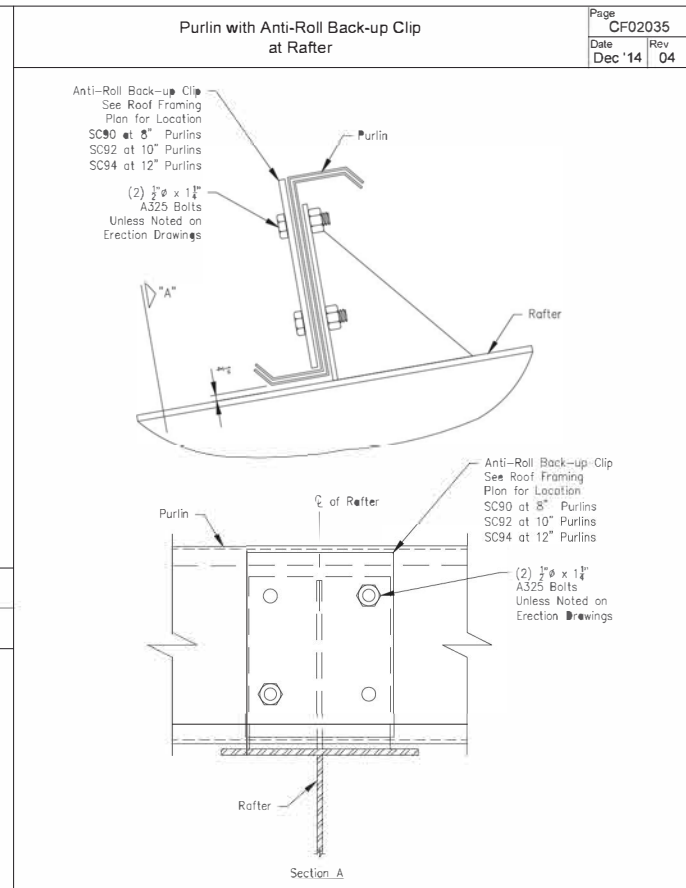
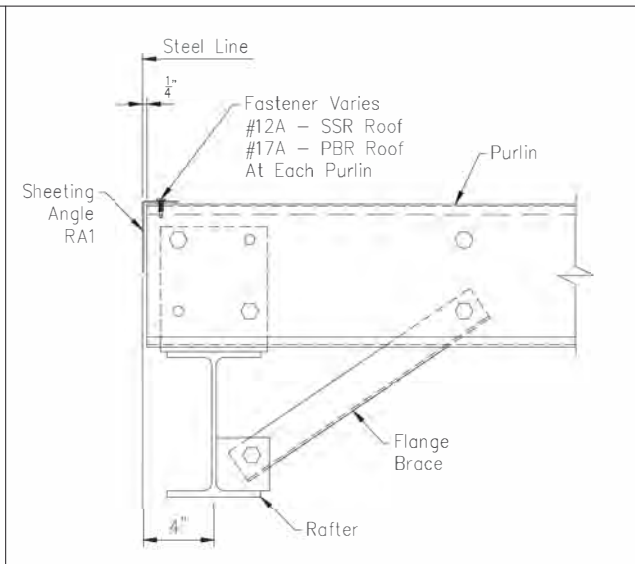
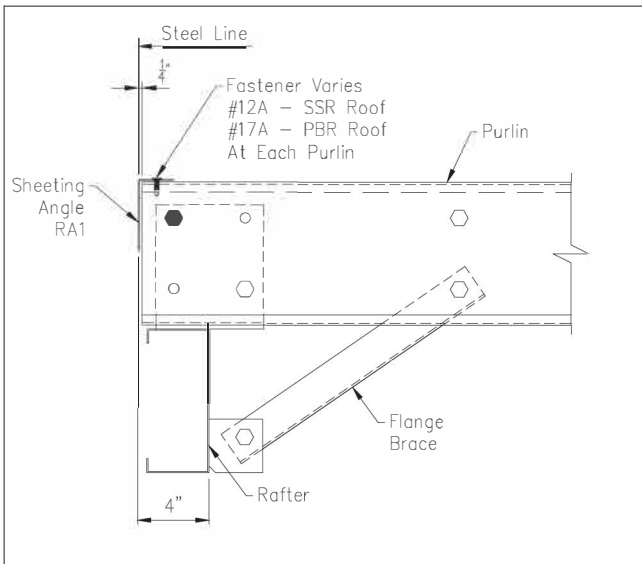
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CUSTOMER:	THE STEEL BUILDER	OWNER: NATALIE DAVIDSON					
LOCATION:	SPARKS, NV 89441-8549 US						
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	2/ 3/23	N.T.S.	T	A	18-B-27926	E7	0





Page	CF02035
Date	Dec '14
Rev	04

A5	Purlin To Bearing Frame Single Cold Form Rafter	Date Jul '21
Page MB-A5		Rev 02

A7	Purlin To Bearing Frame Hot Rolled Rafter	Date Jul '21
Page MB-A7		Rev 02

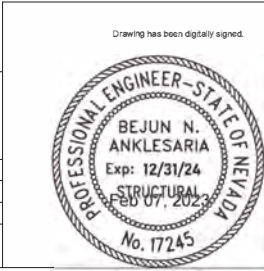
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0	2/ 3/23	FOR ERECTOR INSTALLATION	IES	IES	SKV

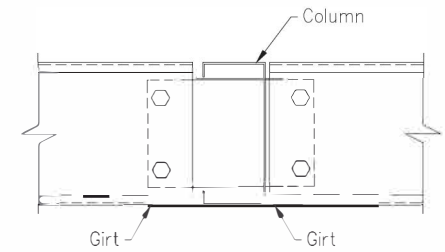
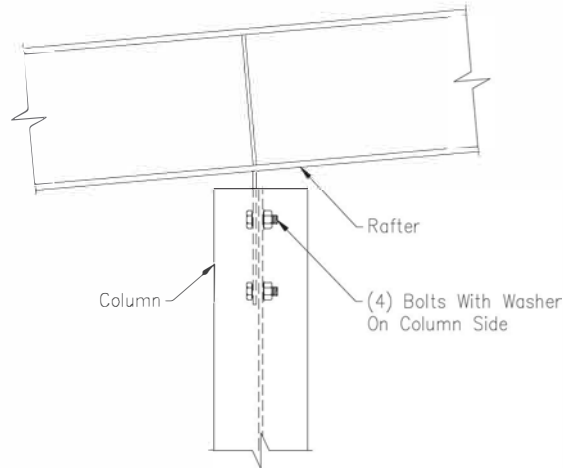
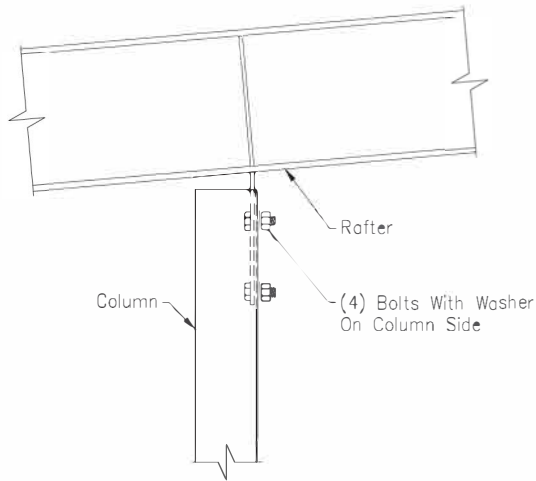
CECO Building Systems

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PROJECT: NATALIE DAVIDSON
 CUSTOMER: THE STEEL BUILDER OWNER: NATALIE DAVIDSON
 LOCATION: SPARKS, NV 89441-8549 US

CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	2/ 3/23	N.T.S.	T	A	19-B-27926	DET1	0





B4	Cold Form Endwall Column To Rafter	Date Aug '20	B6	Hot Rolled Endwall Column To Rafter	Date Aug '20	C4	Girt To Cold Form Column	Date Jun '17
Page MB-B4		Rev 01	Page MB-B6		Rev 01	Page MB-C4		Rev 00

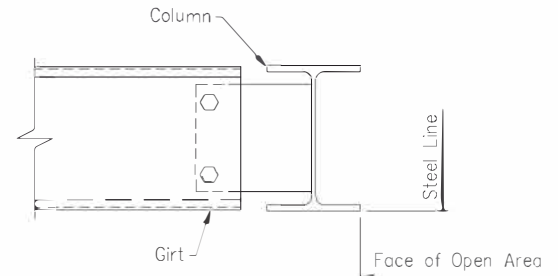
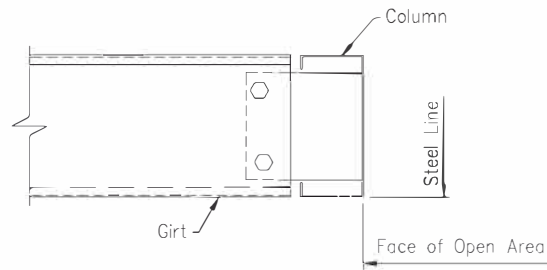
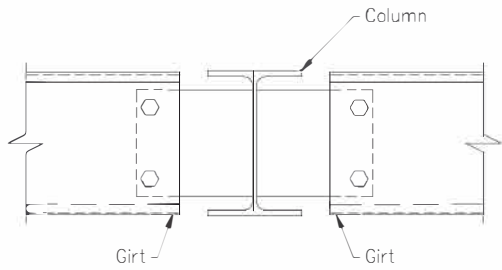
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CUSTOMER:	THE STEEL BUILDER	OWNER:	NATALIE DAVIDSON				
LOCATION:	SPARKS, NV 89441-8549 US						
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	2/ 3/23	N.T.S.	1	A	19-B-27926	DET2	0





C6

Girt To Hot Rolled
Endwall Column

Date
Jun '17
Rev
00

C13

Page
MB-C13

Girt To Cold Form Endwall
Column - Partially Open

Date
Jun '17
Rev
00

C15

Page
MB-C15

Girt To Hot Rolled Endwall
Column - Partially Open

Date
Jun '17
Rev
00

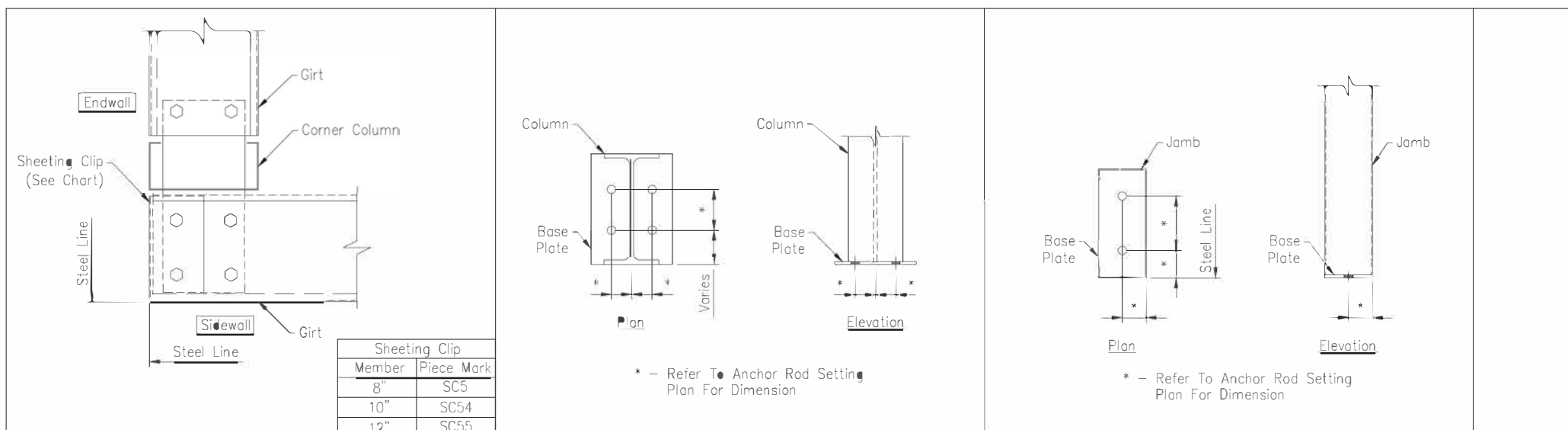
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CUSTOMER: THE STEEL BUILDER							
LOCATION: SPARKS, NV 89441-8549 US							
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	2/ 3/23	N.T.S.	1	A	19-B-27926	DET3	0





Sheeting Clip	
Member	Piece Mark
8"	SC5
10"	SC54
12"	SC55

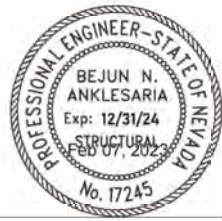
D4	Girt To Cold Form Corner Column	Date: Oct '19	E3	Endwall Column Base Plate	Date: Dec '18	E5	Door Jamb Base Plate	Date: Dec '18
Page: MB-D4		Rev: 01	Page: MB-E3		Rev: 01	Page: MB-E5		Rev: 01

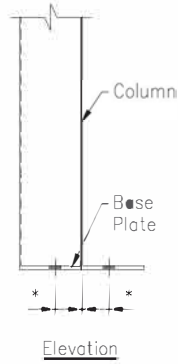
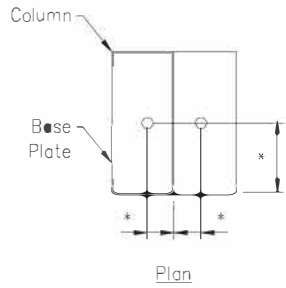
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0	2/ 3/23	FOR ERECTOR INSTALLATION	IES	IES	SKV



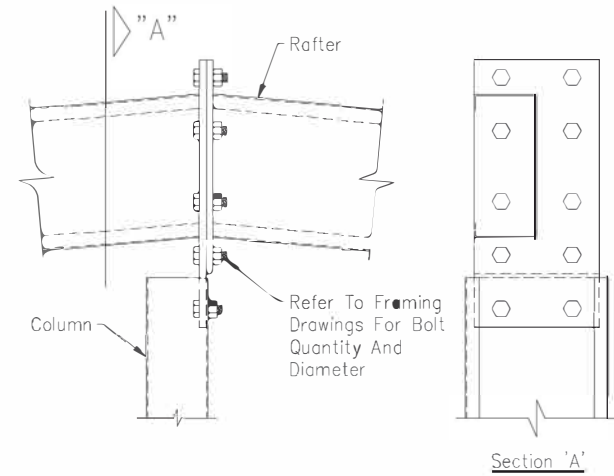
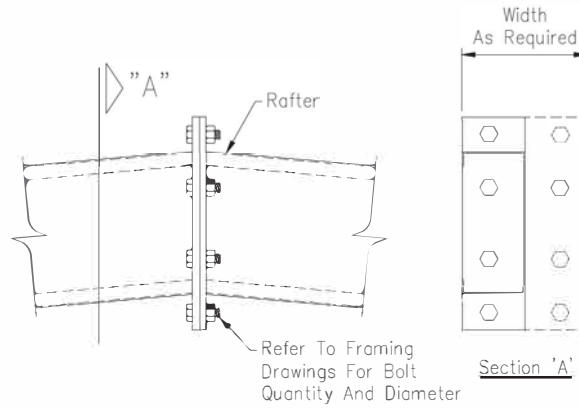
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CUSTOMER:	THE STEEL BUILDER						
LOCATION:	SPARKS, NV 89441-8549 US						
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	2/ 3/23	N.T.S.	1	A	19-B-27926	DET4	0





* - Refer To Anchor Rod Setting Plan For Dimension



E8

Cold Form Endwall Column Base Plate

Date Dec '18
Rev 01

Page MB-F10

F10

Endwall Bearing Frame - Cold Form Rafter Splice At Ridge

Date Jun '17
Rev 00

Page MB-F20B

F20B

Endwall Bearing Frame - Cold Form Rafter Splice At Ridge

Date Jun '17
Rev 00

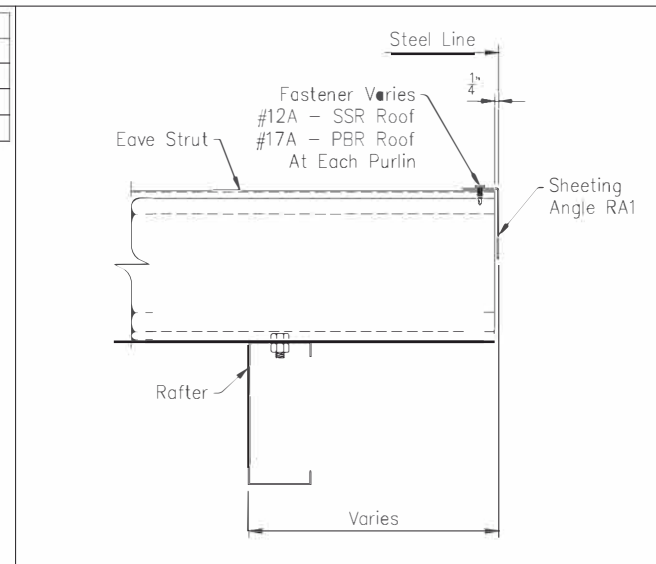
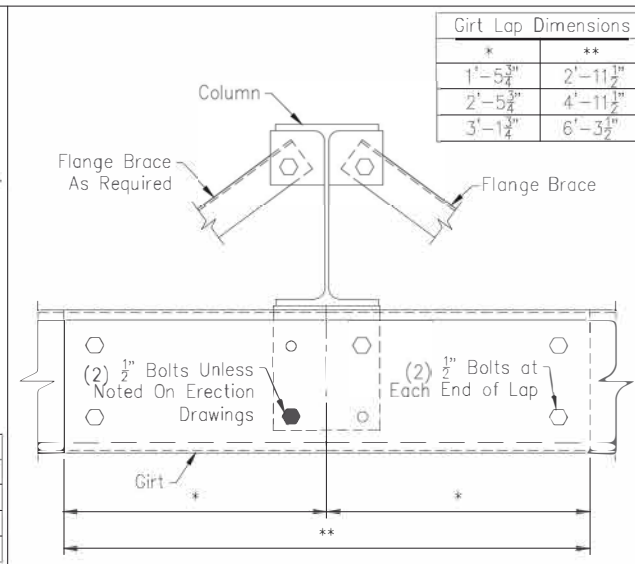
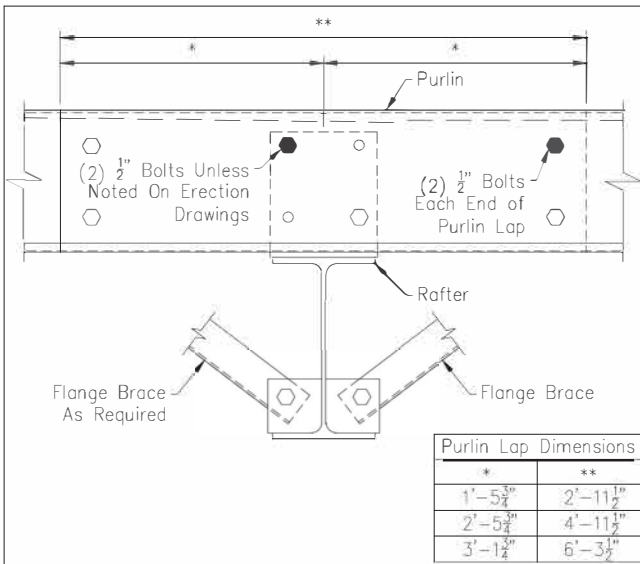
ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
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CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	2/ 3/23	N.T.S.	1	A	19-B-27926	DET5	0





G2	Purlin To Rigid Frame	Date Sep '19
Page MB-G2		Rev 01

H2	Girt To Rigid Frame	Date Sep '19
Page MB-H2		Rev 01

I6	Low Side Eave Strut To Bearing Frame - Cold Form	Date Jun '17
Page MB-I6		Rev 00

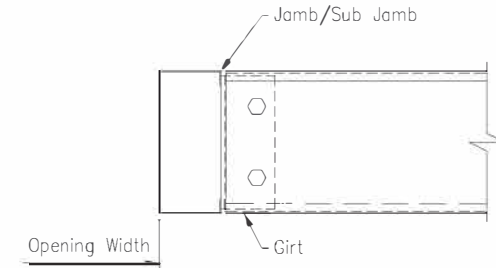
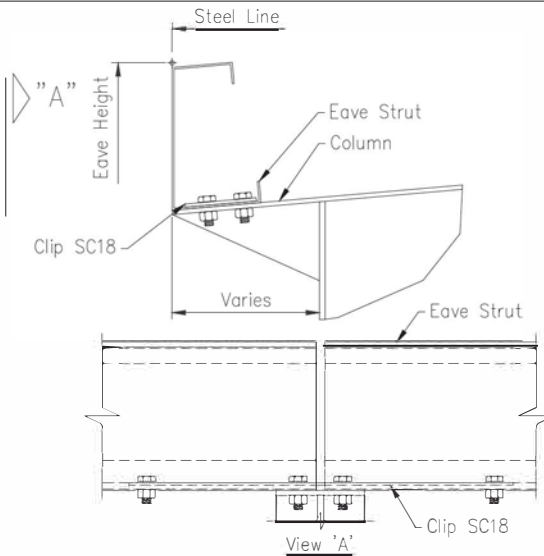
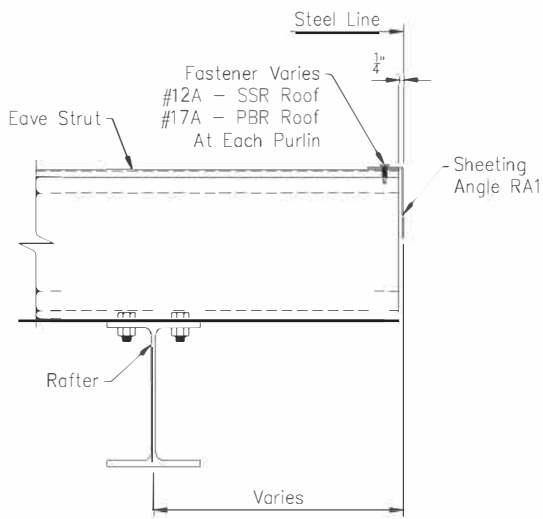
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0	2/ 3/23	FOR ERECTOR INSTALLATION	IES	IES	SKV



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CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	2/ 3/23	N.T.S.	1	A	19-B-27926	DET6	0





18

Low Side Eave Strut To Bearing Frame - Hot Rolled

Date Jun '17
Rev 00

J4

Page MB-J4

Eave Strut To By-Pass Rigid Frame At Interior

Date Jun '17
Rev 00

K3

Page MB-K3

Girt To Single Cold Form Jamb/Sub Jamb

Date Dec '17
Rev 00

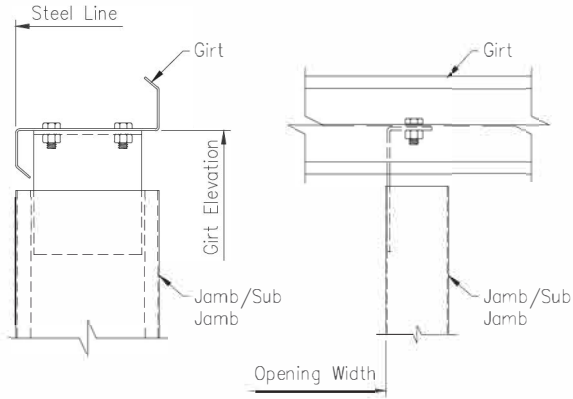
ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
0	2/ 3/23	FOR ERECTOR INSTALLATION	IES	IES	SKV



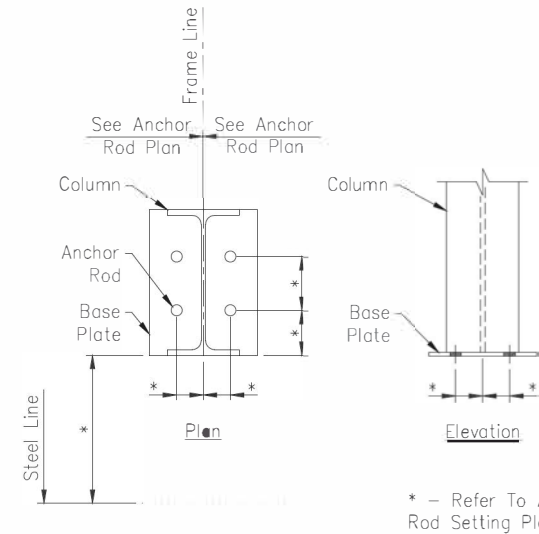
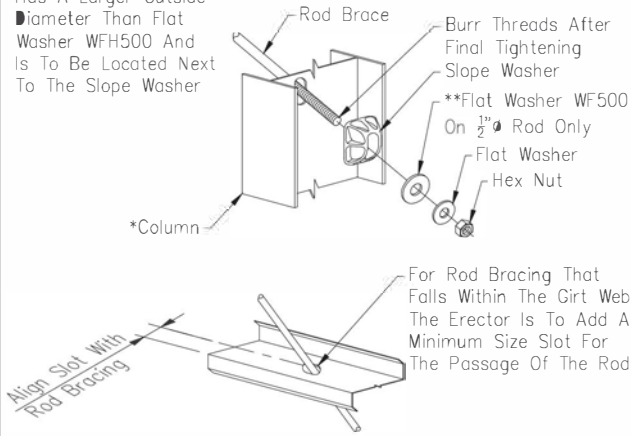
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CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	2/ 3/23	N.T.S.	1	A	19-B-27926	DET7	0





* Similar Connection at Rafter
 ** Flat Washer WF500 Has A Larger Outside Diameter Than Flat Washer WFH500 And Is To Be Located Next To The Slope Washer



L8	Single Cold Form Jamb/ Sub Jamb To Girt	Date Jun '17	Q3	Rod Brace Attachment At Web	Date Mar '18	R2	Anchor Rods At Frame Column	Date Dec '17
Page MB-L8		Rev 00	Page MB-Q3		Rev 01	Page MB-R2		Rev 00

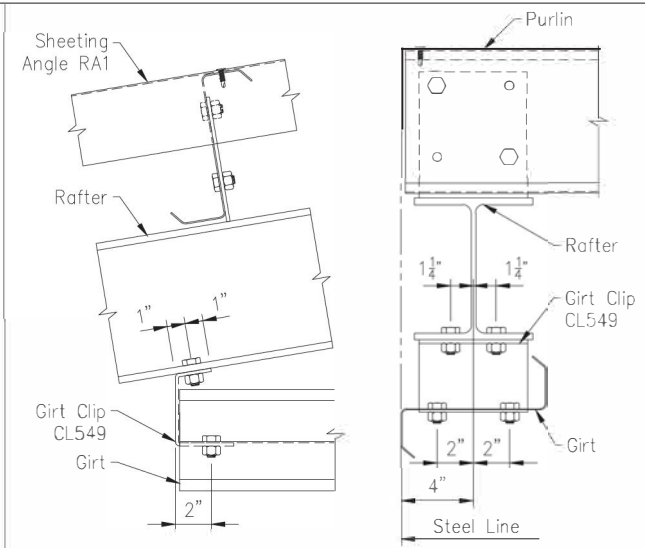
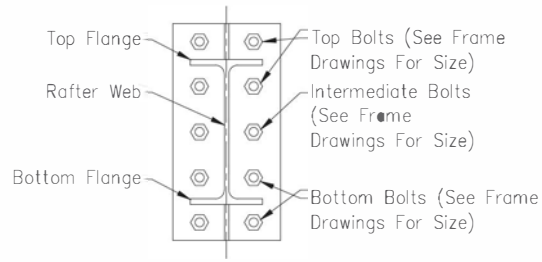
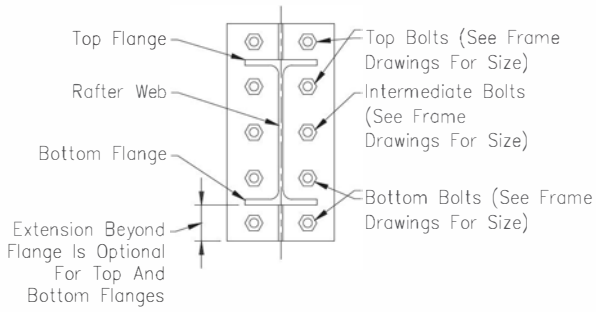
ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
0	2/ 3/23	FOR ERECTOR INSTALLATION	IES	IES	SKV



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	2/ 3/23	N.T.S.	T	A	19-B-27926	DET8	0





U2	Bolts At Rigid Frame Ridge Rafter Connection	Date Jun '17	U3	Bolts At Rigid Frame Rafter To Column Connection	Date Jun '17	W10	Girt To Hot Rolled Endwall Rafter	Date May '19
Page MB-U2		Rev 00	Page MB-U3		Rev 00	Page MB-W10		Rev 00

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
0	2/ 3/23	FOR ERECTOR INSTALLATION	IES	IES	SKV



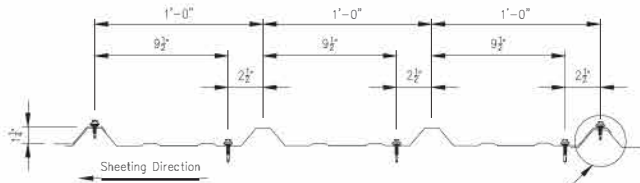
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CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	2/ 3/23	N.T.S.	T	A	19-B-27926	DET9	0

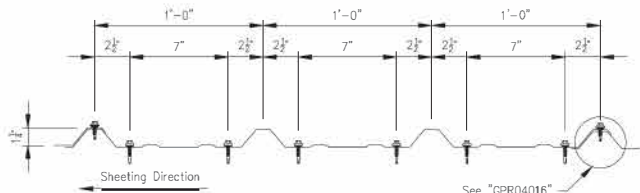


PBR Roof Panel
Fastener And Tape Sealant Location

Page GPR00011
Date Apr '19 Rev 01



All Roof Members Except As Noted Below

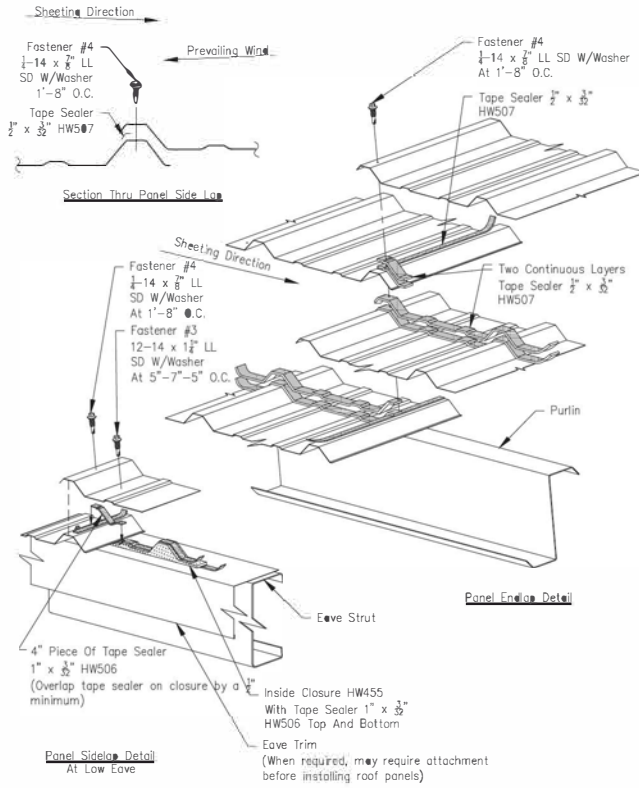


At Eave Strut, Panel End Lap And Peak Purlin

Note:
Screw patterns shown satisfy U.L. 90 requirements for roof.

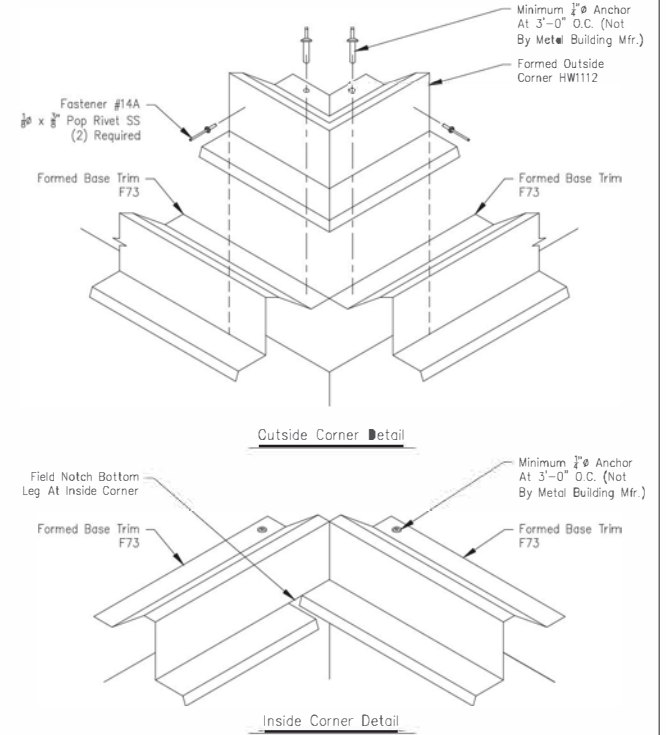
PBR Roof Panel
Side Lap And End Lap Details

Page GPR04016
Date Apr '19 Rev 04



Formed Base Trim Details

Page PW02010
Date Feb '18 Rev 01



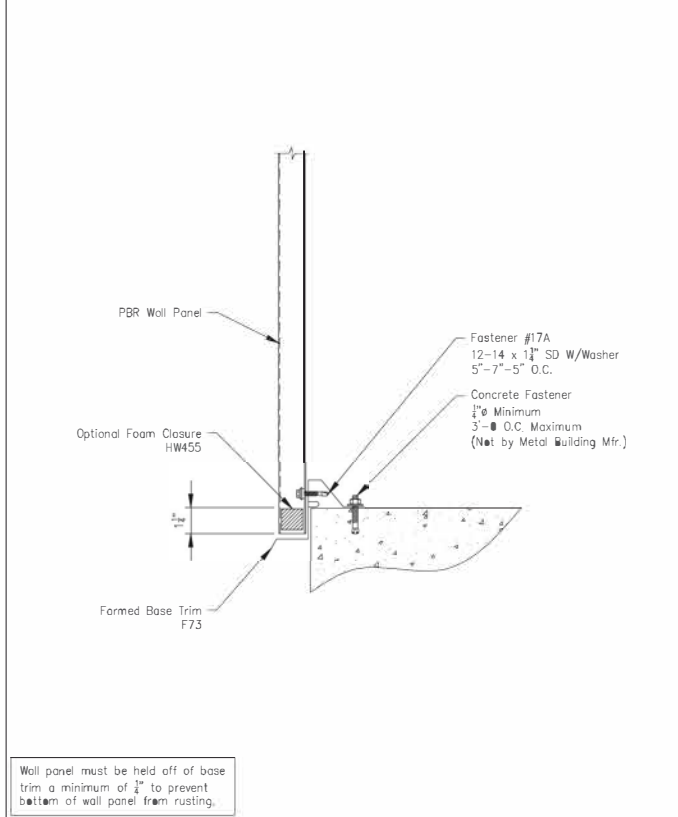
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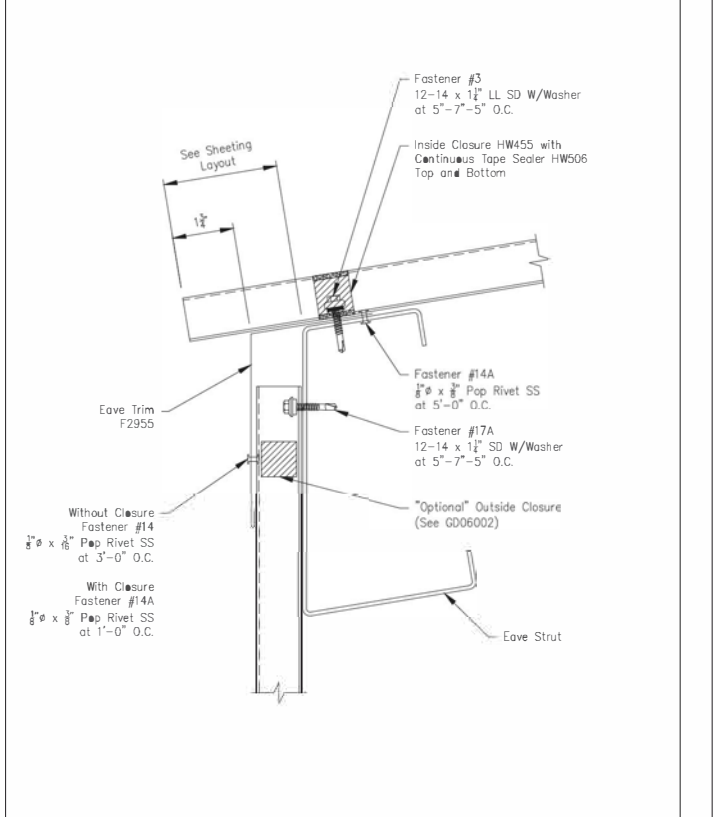
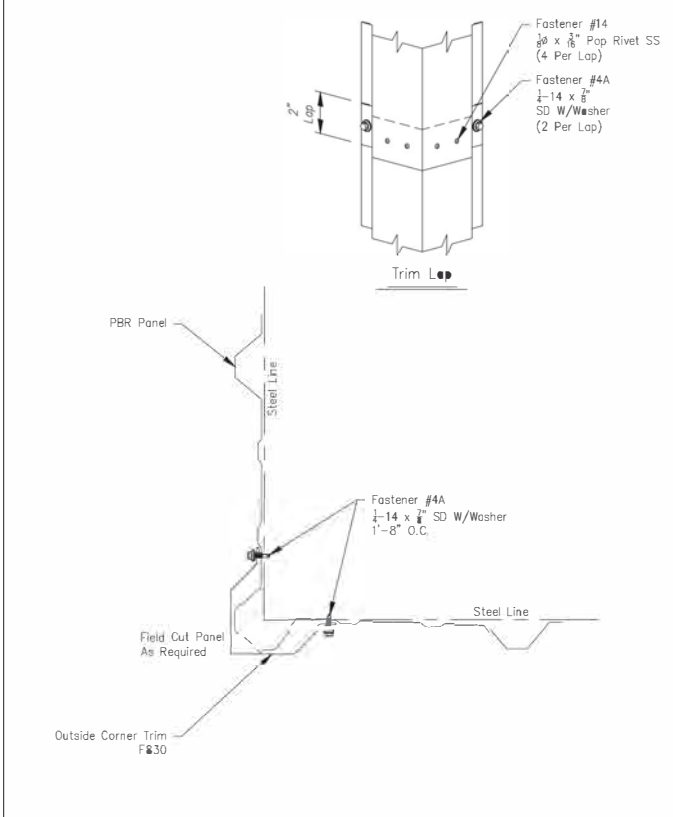
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CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	2/ 3/23	N.T.S.	1	A	19-B-27926	DET10	0





Wall panel must be held off of base trim a minimum of 1/4" to prevent bottom of wall panel from rusting.



ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
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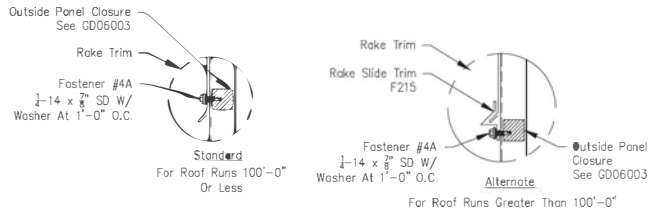
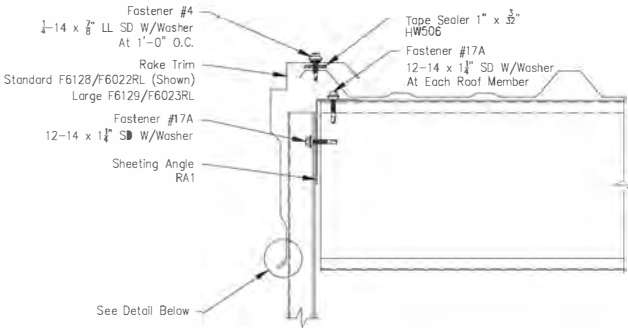
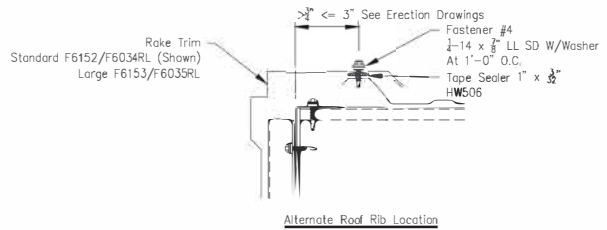
PROJECT: NATALIE DAVIDSON
CUSTOMER: THE STEEL BUILDER OWNER: NATALIE DAVIDSON
LOCATION: SPARKS, NV 89441-8549 US

CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	2/ 3/23	N.T.S.	T	A	19-B-27926	DET11	0



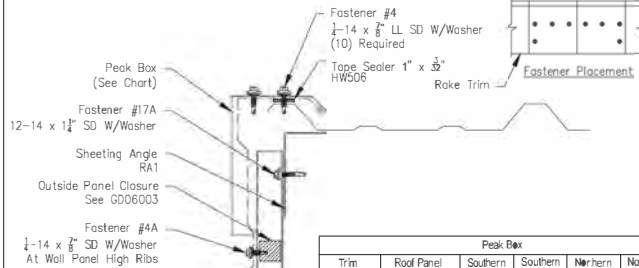
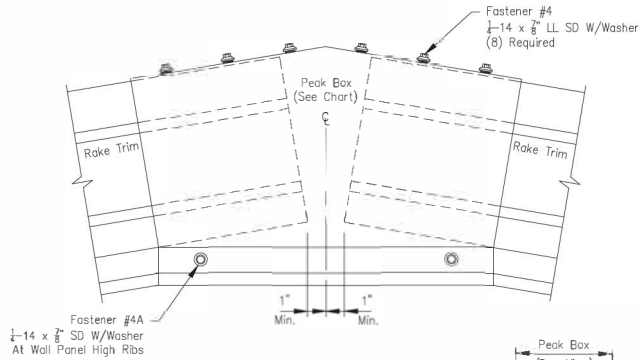
PBR Roof Panel - Northern Standard And Northern Large
Edgecraft Rake Trim - Sheeted Wall

Page TPR05006
Date Jul 20 Rev 00



PBR Roof Panel
Peak Box At Fixed Ridge

Page GPR05001
Date Jun 21 Rev 08

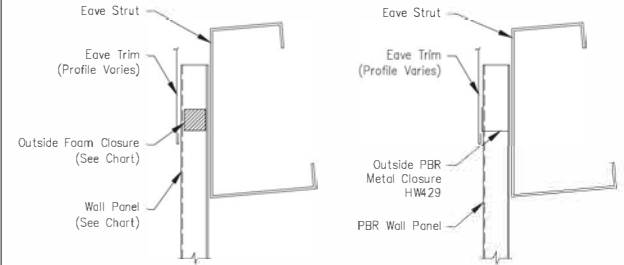


Note:
Flashing profile varies dependent on the building order. Attachment as illustrated is applicable for all profiles.

Peak Box					
Trim Profile	Roof Panel Location	Southern Standard	Southern Large	Northern Standard	Northern Large
Cascading	-	F1519	F1585	F1672	F1760
Cladding	-	F160	F4153	F381	F1024
Contoured	-	F2219	F2285	F2372	F2460
Signature	-	F916	F3853	F236	F1018
Edgecraft	SL <= 3'	F6028	F6029	F6030	F6031
Edgecraft	> 3' <= 3'	F6036	F6037	F6038	F6039
Sculptured	SL <= 3'	F7052	F7055	F7058	F7061
Sculptured	> 3' <= 3'	F7064	F7067	F7070	F7073

Single Skin Wall Panel Outside Closure Requirements at Eave

Page GD06002
Date Feb 19 Rev 02



Detail of Foam Closure
(Low Eave Shown High Eave Similar)

Detail of Optional Metal Closure
For PBR Panel Only
(Low Eave Shown High Eave Similar)

Note:
Foam Closures Are Required When Job Requires Air Infiltration Or Sealed Wall Requirements, See G016002.

Wall Panel	Foam Closure
PBR AVE	HW436
PBR AVE	HW465
PBU	HW460
Vista Window	HW465
NuWall	HW424
PBC	HW462
PBC	HW463
ShadowRib	HW412
Designer Series (Fluted Only)	HW4037
RBR (Reverse Rolled PBR)	HW455
RBU (Reverse Rolled PBU)	HW459
7.2	HW461

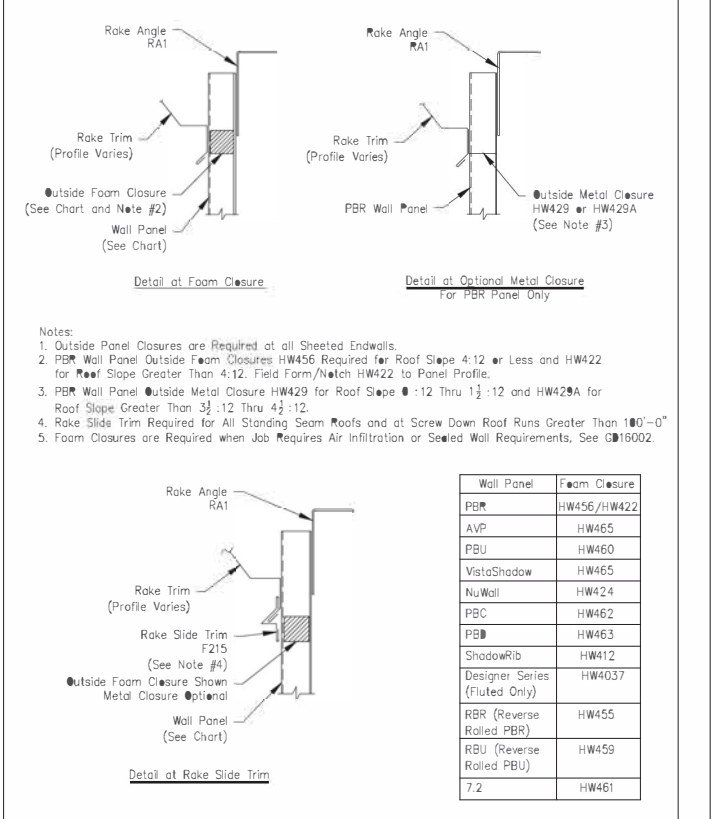
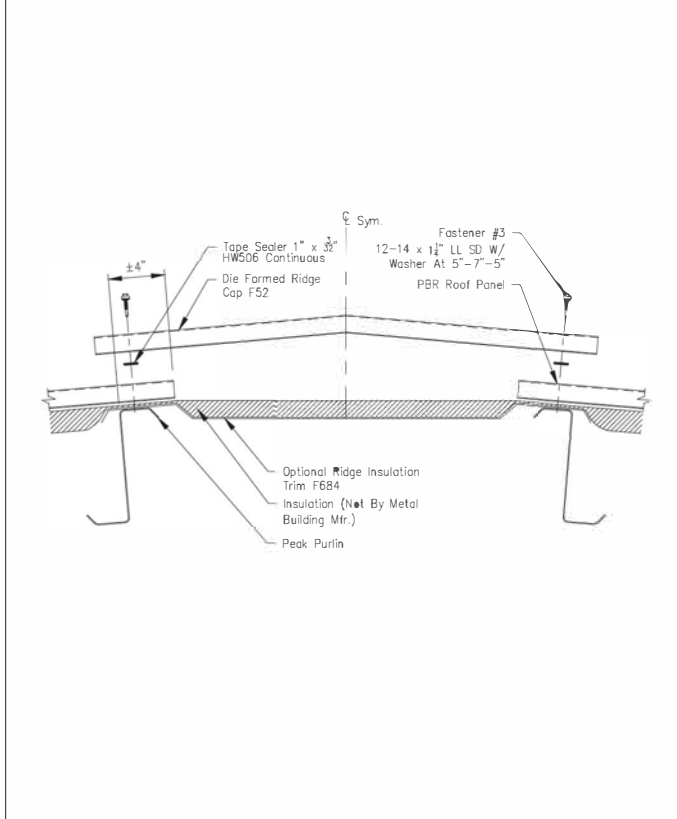
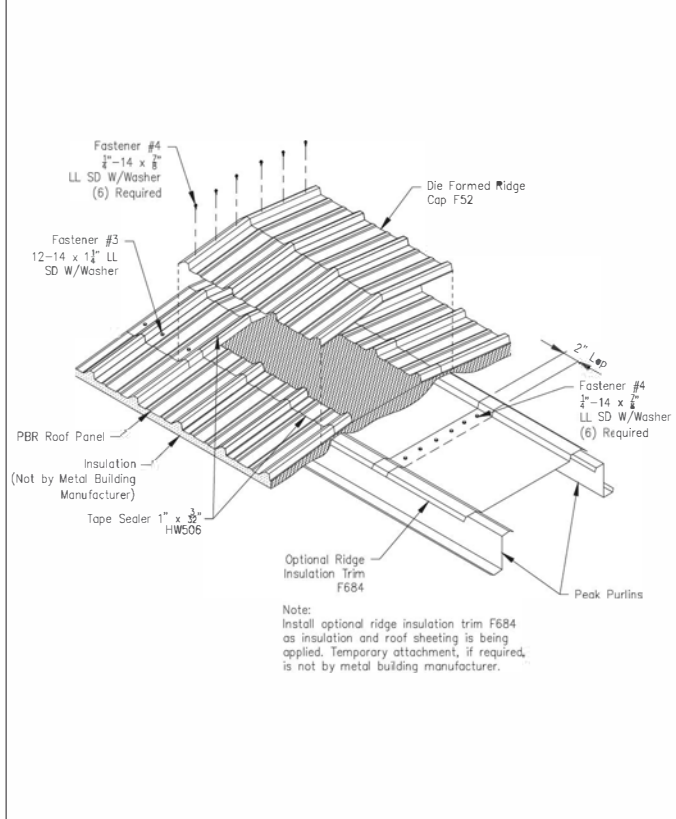
ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
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PROJECT: NATALIE DAVIDSON		OWNER: NATALIE DAVIDSON	
CUSTOMER: THE STEEL BUILDER			
LOCATION: SPARKS, NV 89441-4549 US			
CAD	DATE	SCALE	PHASE
	2/ 3/23	N.T.S.	1
BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
A	19-B-27926	DET12	0





ISSUE	DATE	DESCRIPTION	BY	CHK'D	DSN
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 CUSTOMER: THE STEEL BUILDER OWNER: NATALIE DAVIDSON
 LOCATION: SPARKS, NV 89441-8549 US

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	2/ 3/23	N.T.S.	T	A	19-B-27926	DET13	0



Screw Application

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Date Rev
May '19 01

Standard Grade

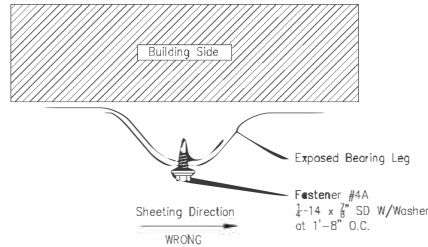
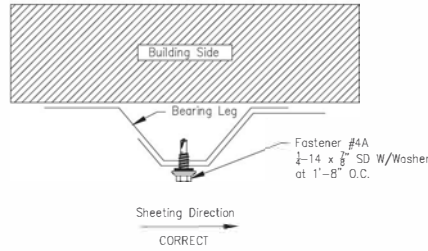
Description	Fastener Number	Application
1/4"-14 x 7/8" Type 2	4A	Stitch & Trim Screw
12-14 x 1 1/4" Type 2	17A	Member Screw (Up To 4" Insulation)
12-14 x 1 1/2" Type 2	17B	Member Screw (Up To 6" Insulation)
12-14 x 2" Type 2	28	Member Screw

Long Life

Description	Fastener Number	Application
1/4"-14 x 7/8" Type 1	4	Stitch & Trim Screw
12-14 x 1 1/4" Type 2	3	Member Screw (Up To 4" Insulation)
12-14 x 1 1/2" Type 2	3A	Member Screw (Up To 6" Insulation)
12-14 x 2" Type 2	58	Member Screw

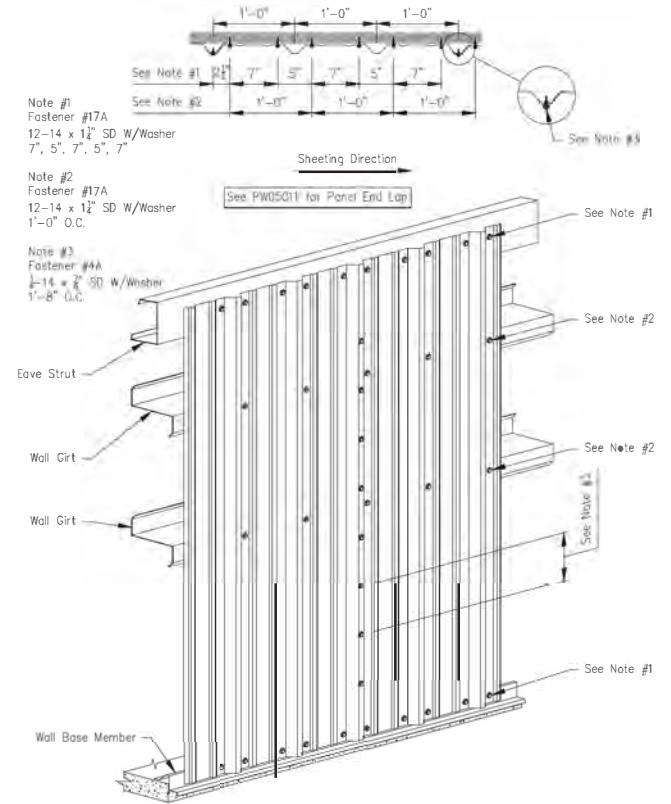
PBR Wall Panel
Panel Side Lap

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Date Rev
Mar '19 03



PBR Wall Panel
Fastener Location

Page PW05003
Date Rev
Aug '15 04



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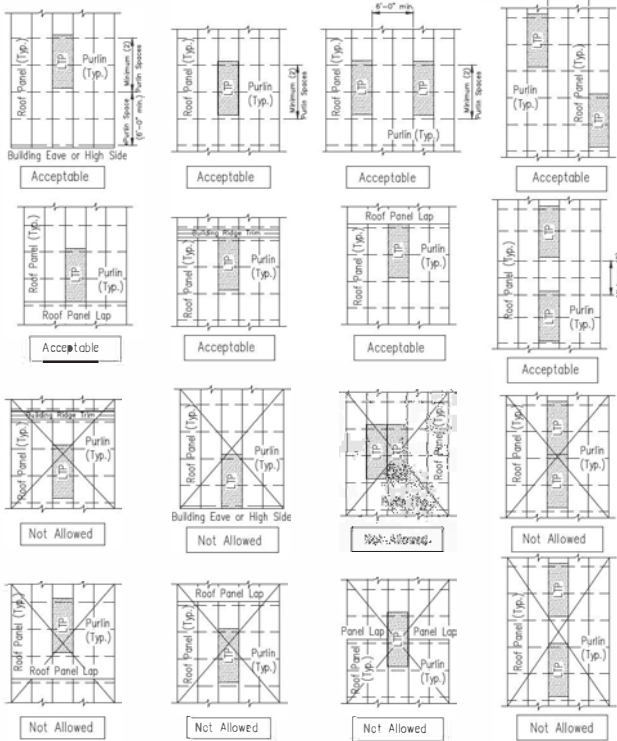
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CUSTOMER:	THE STEEL BUILDER						
OWNER:	NATALIE DAVIDSON						
LOCATION:	SPARKS, NV 89441-4549 US						
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	2/ 3/23	N.T.S.	1	A	19-B-27926	DET14	0



Light Transmitting Panel (LTP)
PBR Roof Panel
Standard Placement Guidelines

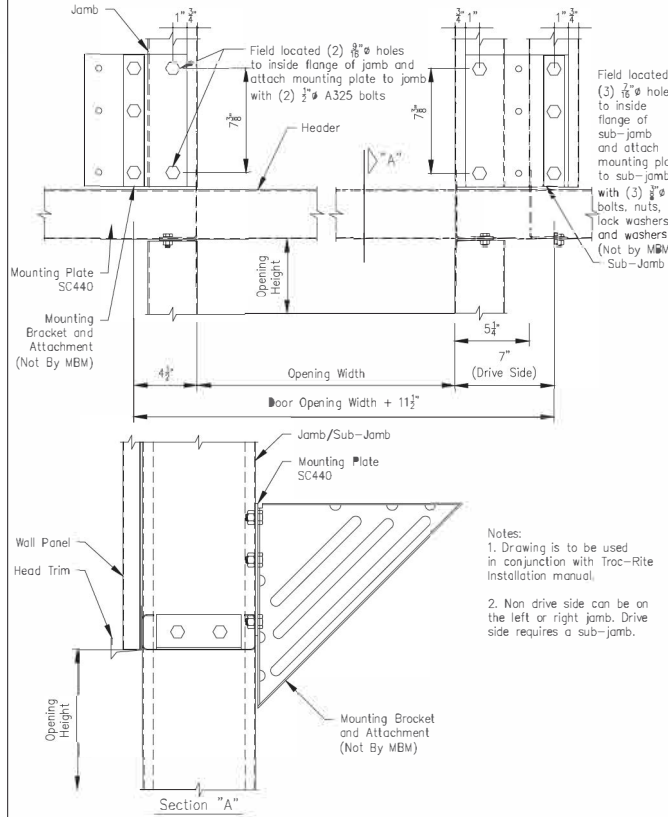
Page GPR25102
Date Apr '17 Rev 00

*Note: Roof Panel and Light Transmitting Panel to span a minimum of (2) purlin spaces.
A minimum of 4' is required for panel endlaps. The non-insulated LTP may be field cut or endlap under the up-hill roof panel a maximum of 1'-0". Insulated LTP should not be cut in field.



Trac-Rite Model 988 / 988WL & Model 977 / 977WL Roll-Up Door Mounting
Plate Installation

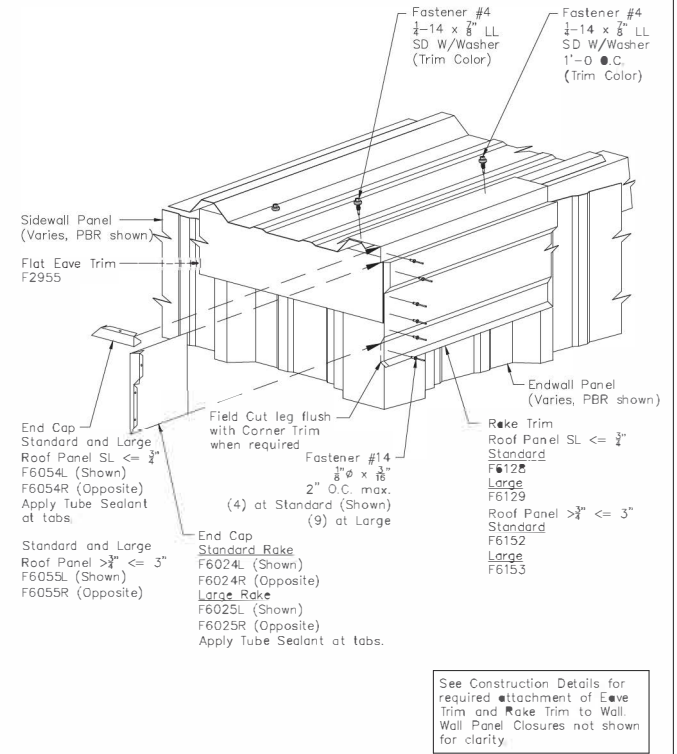
Page AC00835X
Date Rev



- Notes:
1. Drawing is to be used in conjunction with Trac-Rite installation manual.
2. Non drive side can be on the left or right jamb. Drive side requires a sub-jamb.

PBR Roof Panel - Northern Standard and Northern Large Edgecraft
Low Eave Rake Corner with Flat Eave Trim - 3/4" thru 1 1/4" Wall Panel

Page TPR04009
Date Nov 20 Rev 02



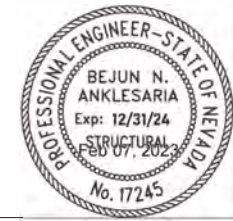
Drawing has been digitally signed.

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
0	2/ 3/23	FOR ERECTOR INSTALLATION	IES	IES	SKV



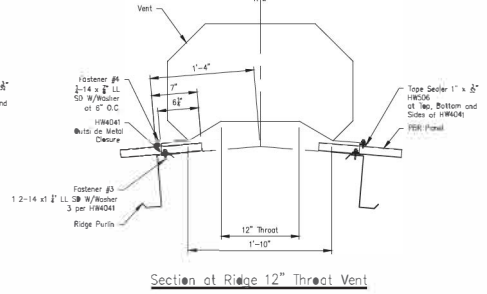
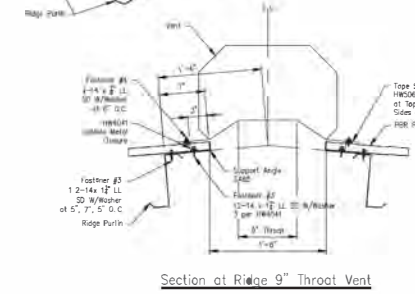
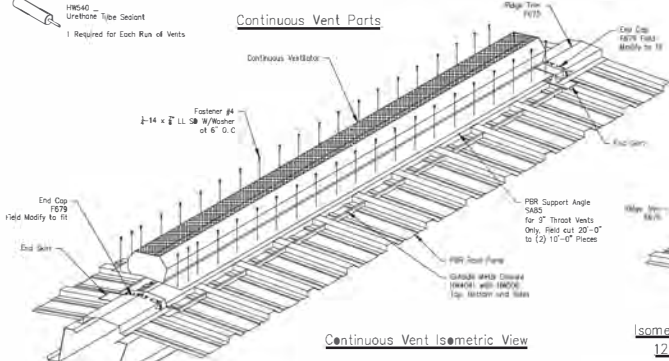
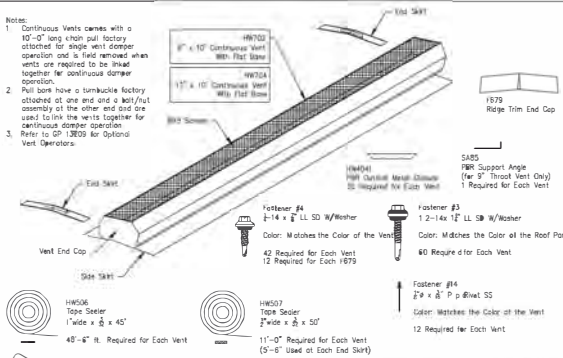
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CUSTOMER:	THE STEEL BUILDER	OWNER: NATALIE DAVIDSON
LOCATION:	SPARKS, NV 89441-4549 US	
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PHASE	BUILDING ID	JOB NUMBER
T	A	19-B-27926
SHEET NUMBER	ISSUE	
DET15	0	



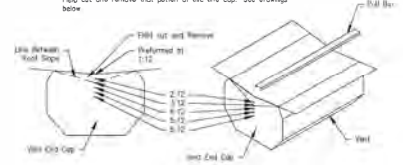
Notes:

- Continuous Vents comes with a 10'-0" long chain pull factory attached for slope vent damper operation and is field removed when vents are required to be in and together for continuous damper operation.
- Pull bars have a turnbuckle factory attached at one end and a half/full assembly at the other end and are used to link the vents together for continuous damper operation.
- Refer to GP 13009 for Options Vent Operators.



Vent Preparation Before Installation:

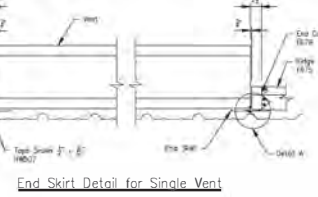
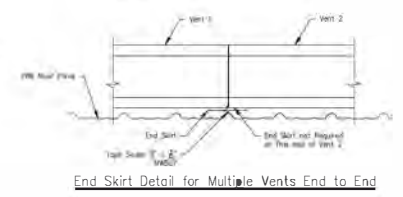
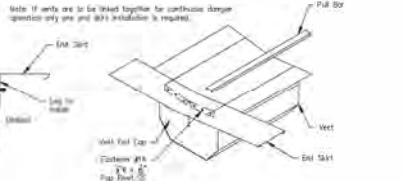
HW401 and HW402 are preferred for a 1:12 roof slope and require field modification to the end caps for roof slopes greater than 1:12 prior to installation. Field modification of the vent end cap is not required for roof slopes 1:12 and less. Turn the ventilator over and place the vent on it's top. There are five punch marks representing different roof slopes. Draw a line between the corners and to opposite roof slope punch mark. Field cut and remove that portion of the end cap. See drawings below.



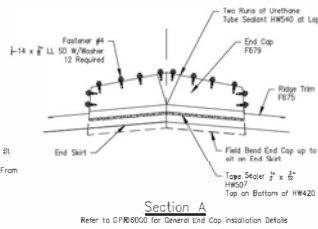
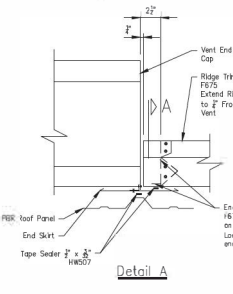
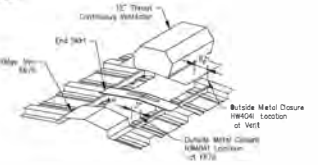
End Skirt Installation:

Position end skirt onto the vent and cap. Be sure the down-turned angle of the end skirt is positioned on the inside and tight against the vent end cap.

Attach the end skirt to the vent end cap with (6) Fastener #4. See drawing below.



Isometric View HW404 Location at 12" Throat Continuous Vent



Refer to GPR6600 for General End Cap Installation Details

Continuous Ridge Ventilator 9" or 12" Throat x 10'-0" Flat Base
PBR Roof Panel Greater Than 2 1/2" 12 Roof Slope or With Expansion Ridge Trim

Rev: GPR13202
Date: Nov 17 01

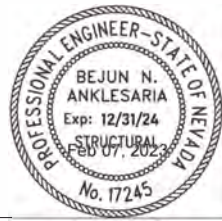
NOTE: The Metal Building Manufacturer does not recommend the use of Ridge Ventilators on PBR roof systems on gable buildings over 200'-0" in width (100'-0" max. roof plane) or with roof slopes less than 1:12 or greater than 8:12.

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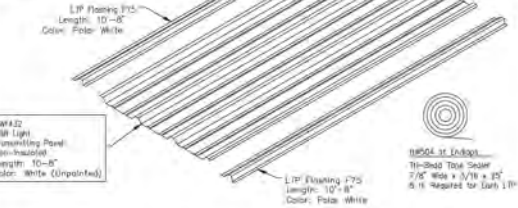


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CUSTOMER: THE STEEL BUILDER							
LOCATION: SPARKS, NV 89441-8549 US							
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
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NOTE:
If additional purline occur between purline shown in this isometric view use a Fastener #43, for each additional purline.



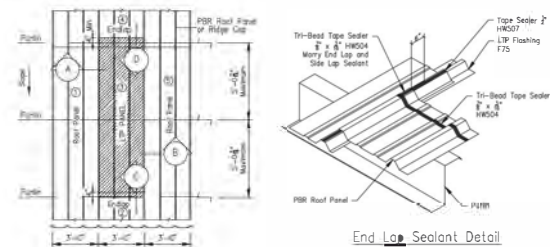
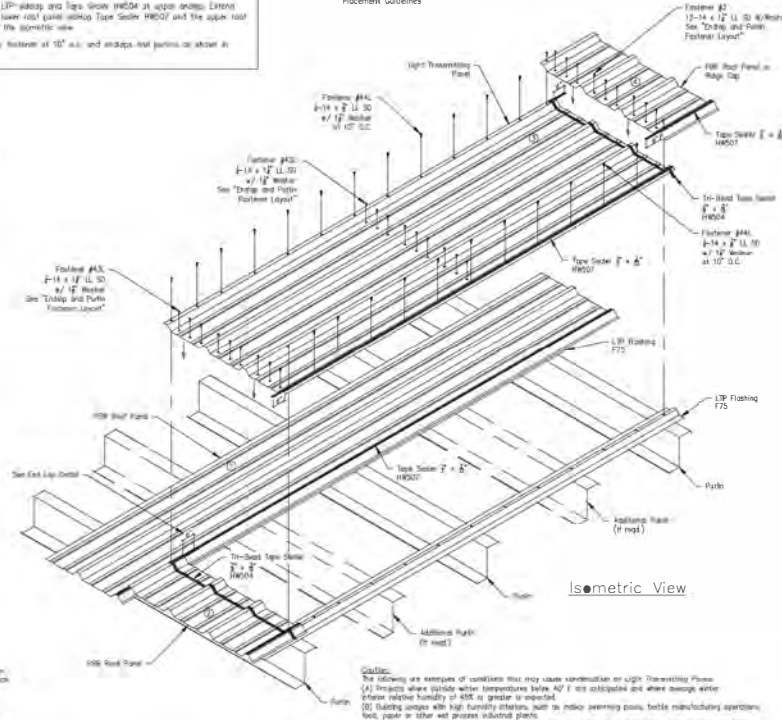
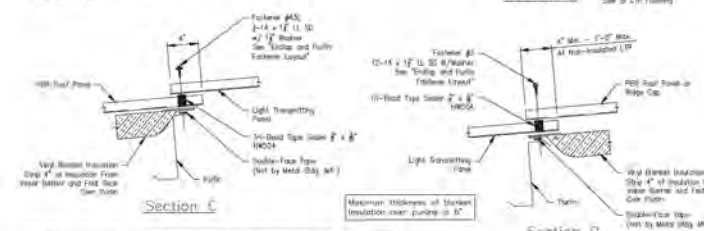
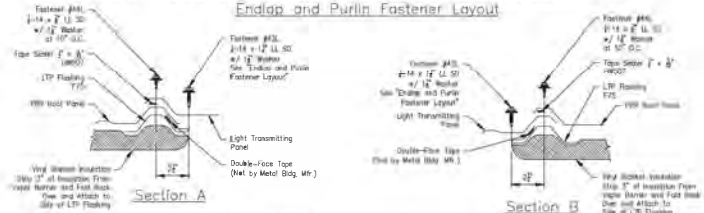
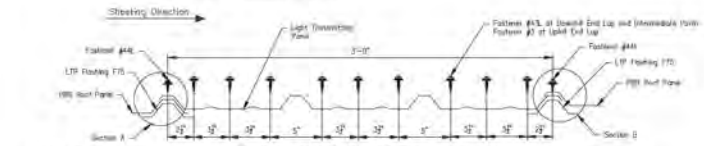
GENERAL NOTES:

- The light transmitting panels are not designed or intended to bear the weight of any person walking, stepping, standing, or leaning on them. THE MANUFACTURER DISCLAIMS ANY WARRANTY OR REPRESENTATION, EXPRESSED OR IMPLIED, that any person can safely walk, step, stand, or lean on or over the light transmitting panels, or that they comply with any OSHA regulation. It is the User's responsibility to ensure that the installation and use of the light transmitting panels comply with OSHA Federal and OSHA regulations and laws, including but not limited to, guarding of light transmitting panels with screens, fixed standard columns, or other acceptable safety controls that prevent fall-through.
- Non-Insulated light transmitting panels may need to be cut to fit the field. If required, follow these steps: 1) To fit (1) LTP's may be cut at one end. 2) A straight saw with 1/4 inch per inch blade, will work best. Cut slow and allow the blade to work without excessive pressure. Allow the blade to cool between cuts.
- If it is suggested to pre-drill the light transmitting panels before installing fasteners. This will help prevent fasteners which may cause possible leaks.
- Remove all shingles and metal flange from the surface of the panels at the end of each work step that caused by them being on during the panel finish and void prevention.

INSTALLATION NOTES:

- Install roof panel and insulator according to standard practices as to the desired location as the LTP shown on the "FIELD SHEETING PLAN". Install the LTP Flooding F75 on both sides of the LTP spacing. Apply double tape sealer (not provided by Metal Bldg. Mfg.) to the sides of the LTP Flooding F75 to ensure the transition see Sections A and B.
- Install insulation above and below the LTP spacing. Apply double face tape to the purline to secure the insulation see Sections C and D.
- Apply Tape Sealer HWS07 of the panel overlap as shown in Section A and the isometric view.
- Apply Tape Sealer HWS07 on top of the lower roof panel overlap (lower (2)) and extend Tape Sealer HWS07 6" over the top of the upper roof panel overlap (upper (2)) see Section C and the isometric view.
- Apply Tape Sealer HWS07 on top of the LTP overlap and Tape Sealer HWS07 at system overlap. Extend Tape Sealer HWS07 6" over the top of the lower roof panel overlap. Tape Sealer HWS07 and the upper roof panel overlap (panel (2)) the section D and the isometric view.
- Attach LTP girth as add-ons with racking fastener of 10" x 1/2" and enclose end panels as shown in Section D and Purline Fastener Layout.

PBR Light Transmitting Panel Assembly Parts
UL 90 Rated Roof Construction Number 341



End Lap Sealant Detail

Standard LTP Location
See GPR25102 for Standard Placement Guidelines

Non-Insulated PBR Light Transmitting Panel (LTP)
Non UL 90 Application or UL 90 Application

Part GPR25100
Rev 02
Feb '20

ISSUE	DATE	DESCRIPTION	BY	CHK'D	DSN
0	2/3/23	FOR DIRECTOR INSTALLATION	ES	ES	SW

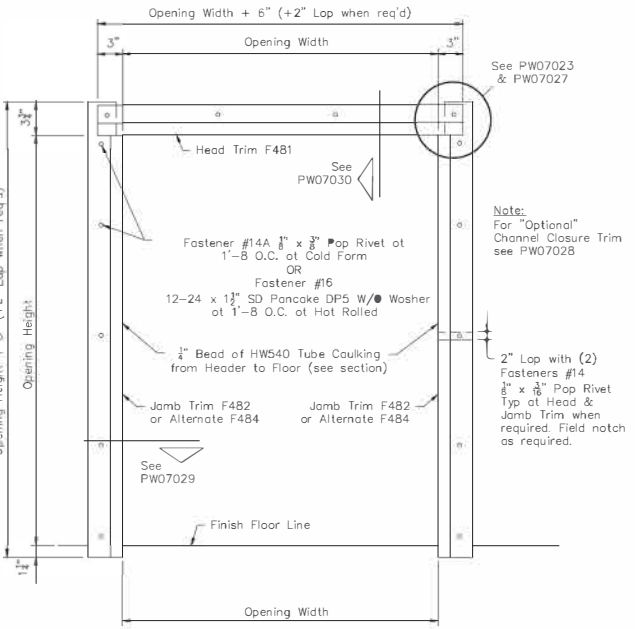


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CUSTOMER:	THE STEEL BUILDER						
LOCATION:	SPARKS, NV 89441-8549 US						
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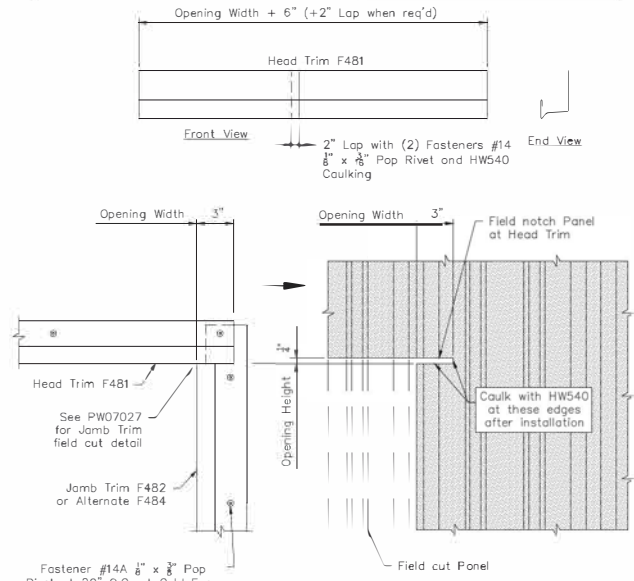
Note: Trim Installation can be done by Field Notch Panel as shown on PW07022 & PW07023 OR with Field Notch and Bend Tabs at Head Trim as shown on PW07024 & PW07025.



Note: All trim is to be installed BEFORE blanket insulation is applied to walls.

Note: Field measure Opening Width and Height before making field cuts and adjust cut dimensions accordingly.

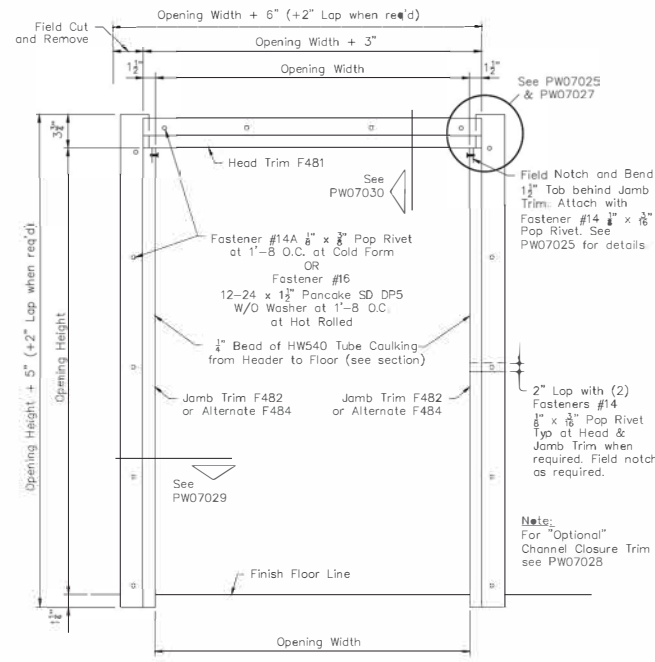
Note: Trim Installation can be done by Field Notch Panel as shown on PW07022 & PW07023 OR with Field Notch and Bend Tabs at Head Trim as shown on PW07024 & PW07025.



Note: All trim is to be installed BEFORE blanket insulation is applied to walls.

Note: Panel position is shown with Panel Rib and Opening on 1'-0" module. Location of Rib may vary depending on the Opening Width and location. Field measure before cutting Panel and Trim.

Note: Trim Installation can be done by Field Notch Panel as shown on PW07022 & PW07023 OR with Field Notch and Bend Tabs at Head Trim as shown on PW07024 & PW07025.



Note: All trim is to be installed BEFORE blanket insulation is applied to walls.

Note: Field measure Opening Width and Height before making field cuts and adjust cut dimensions accordingly.

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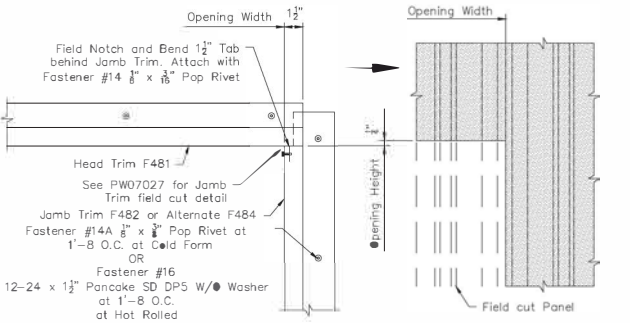
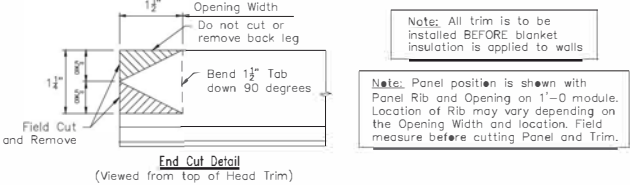
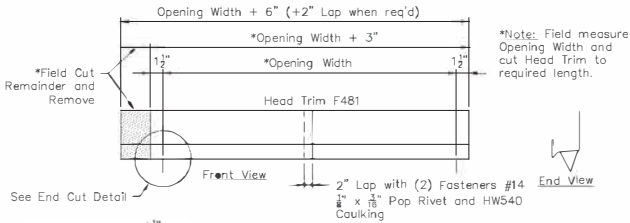
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CUSTOMER:	THE STEEL BUILDER		OWNER: NATALIE DAVIDSON				
LOCATION:	SPARKS, NV 89441-8549 US						
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	2/ 3/23	N.T.S.	T	A	19-B-27926	DET18	0



PBR Wall Panel - Three Sided Framed Opening - Field Notch and Bend Tabs at Head Trim

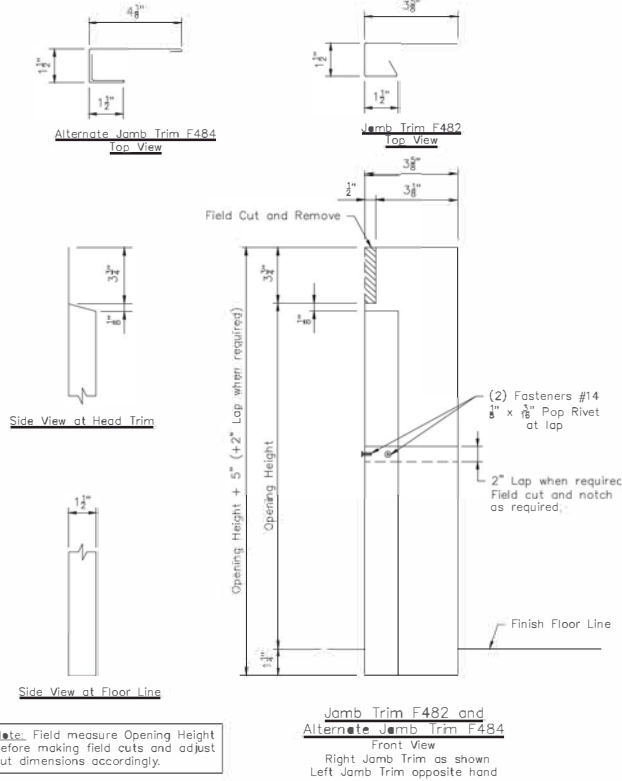
Page PW07025
Date Mar '20 Rev 05

Note: Trim installation can be done by Field Notch Panel as shown on PW07022 & PW07023 OR with Field Notch and Bend Tabs at Head Trim as shown on PW07024 & PW07025.



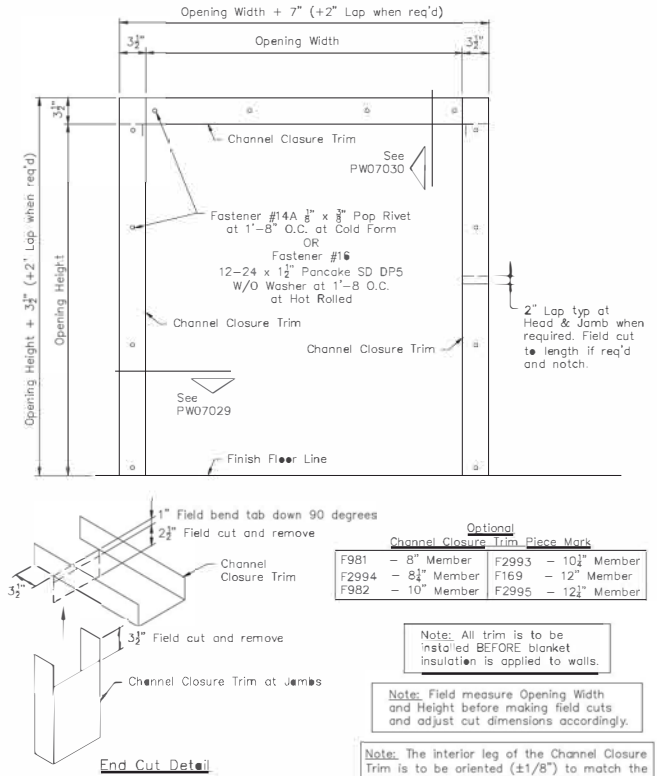
PBR Wall Panel - Three Sided Framed Opening Jamb Trim Field Cut Details

Page PW07027
Date Mar '20 Rev 04



PBR Wall Panel - Three Sided Framed Opening "Optional" Channel Closure Trim

Page PW07028
Date May '19 Rev 04



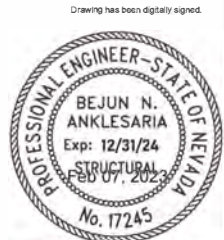
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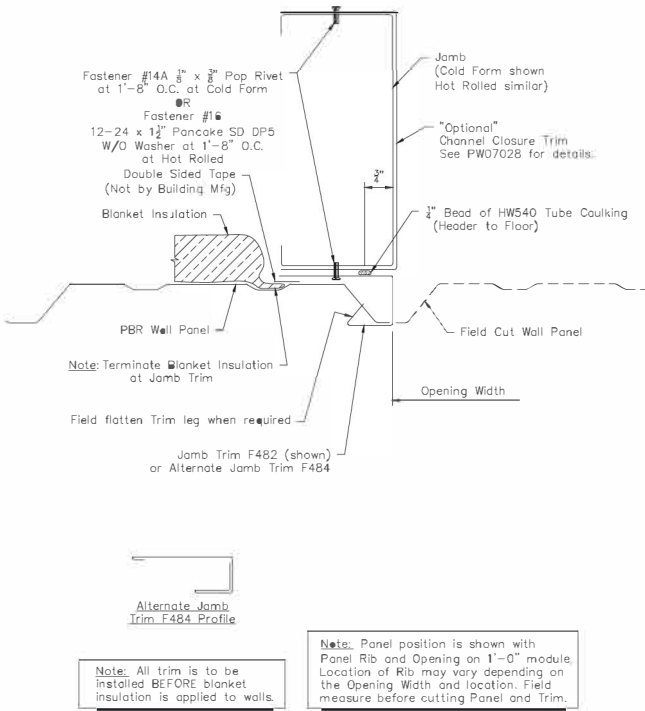
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CUSTOMER: THE STEEL BUILDER
LOCATION: SPARKS, NV 89441-8549 US
OWNER: NATALE DAVIDSON

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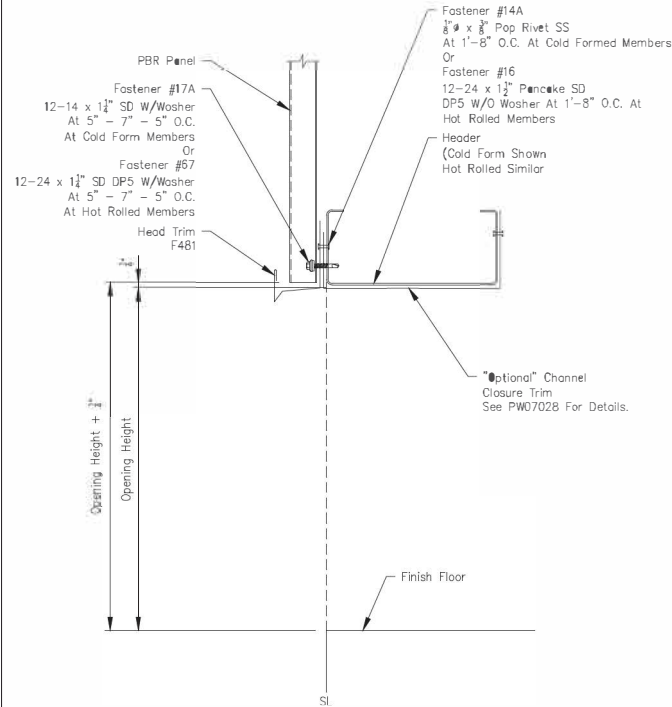
PBR Wall Panel - Three Sided Framed Opening - Jamb Trim Installation

Page PW07029
Date Mar '20 Rev 05



PBR Wall Panel - Three Sided Framed Opening Head Trim Installation

Page PW07030
Date Oct '19 Rev 03



ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
0	2/ 3/23	FOR ERECTOR INSTALLATION	IES	IES	SKV



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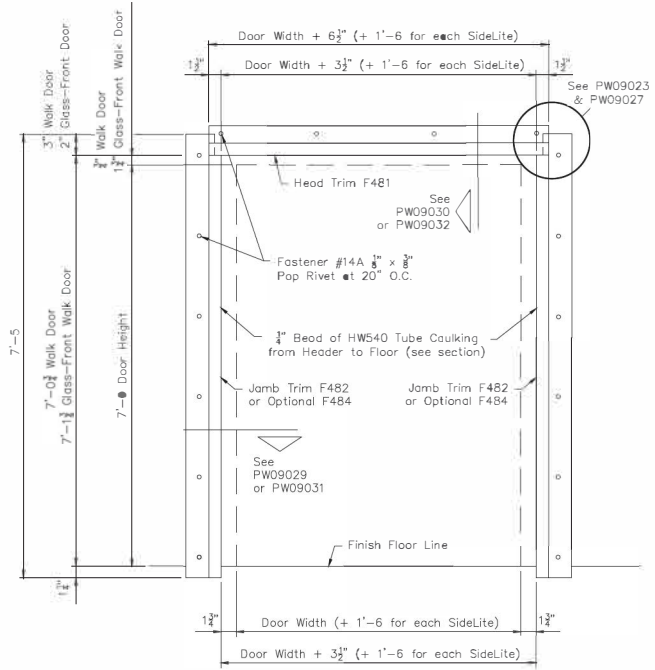
PROJECT: NATALIE DAVIDSON		OWNER: NATALIE DAVIDSON	
CUSTOMER: THE STEEL BUILDER			
LOCATION: SPARKS, NV 89441-8549 US			
CAD	DATE	SCALE	PHASE
	2/ 3/23	N.T.S.	T
BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
A	19-B-27926	DET20	0



PBR Wall Panel - Walk Door & Glass-Front Walk Door - Trim Installation with Field Notch Panel at Head Trim

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Date Mar '20 Rev 03

Note: Trim Installation can be done by Field Notch Panel as shown on PW09022 & PW09023 OR with Field Notch and Bend Tabs at Head Trim as shown on PW09024 & PW09025

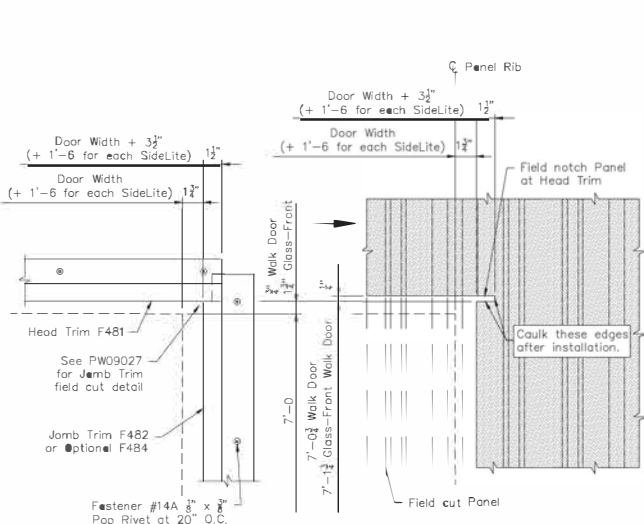


Note: All trim is to be installed BEFORE blanket insulation is applied to walls.
Note: Field measure Door Width and Height before making field cuts and adjust cut dimensions accordingly.

PBR Wall Panel - Walk Door And Glass-Front Walk Door Field Notch Panel at Head Trim

Page PW09023
Date Mar '20 Rev 02

Note: Trim Installation can be done by Field Notch Panel as shown on PW09022 & PW09023 OR with Field Notch and Bend Tabs at Head Trim as shown on PW09024 & PW09025.

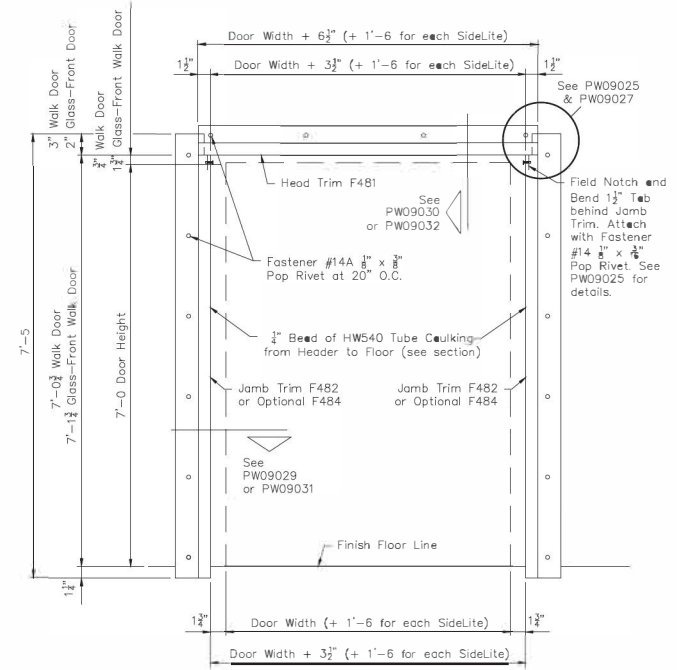


Note: All trim is to be installed BEFORE blanket insulation is applied to walls.
Note: Panel position is shown with Panel Rib and Door on 1'-0" module. Location of Rib may vary depending on the Door Width and location. Field measure before cutting Panel and Trim.

PBR Wall Panel - Walk Door & Glass-Front Walk Door - Trim Installation with Field Notch and Bend Tabs at Head Trim

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Date Mar '20 Rev 03

Note: Trim Installation can be done by Field Notch Panel as shown on PW09022 & PW09023 OR with Field Notch and Bend Tabs at Head Trim as shown on PW09024 & PW09025.



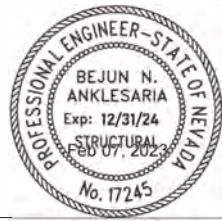
Note: All trim is to be installed BEFORE blanket insulation is applied to walls.
Note: Field measure Door Width and Height before making field cuts and adjust cut dimensions accordingly.

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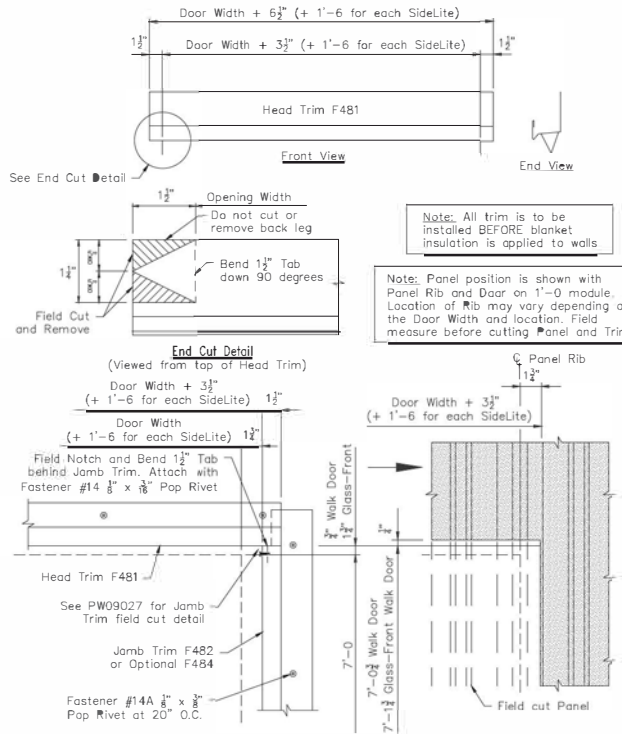
PROJECT:	NATALIE DAVIDSON						
CUSTOMER:	THE STEEL BUILDER						
OWNER:	NATALIE DAVIDSON						
LOCATION:	SPARKS, NV 89441-8549 US						
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PBR Wall Panel - Walk Door And Glass-Front Walk Door - Field Notch and Bend Tabs at Head Trim

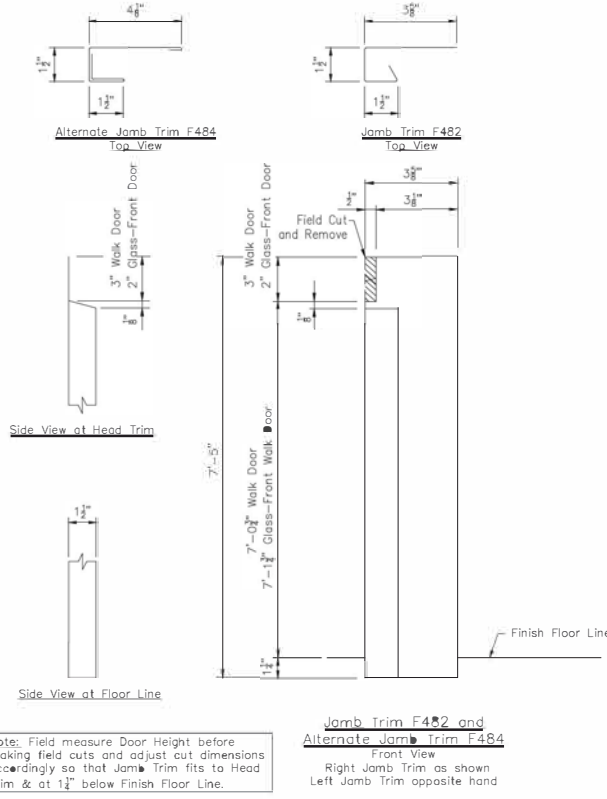
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Date Mar '20 Rev 02

Note: Trim Installation can be done by Field Notch Panel as shown on PW09022 & PW09023 with Field Notch and Bend Tabs at Head Trim as shown on PW09024 & PW09025.



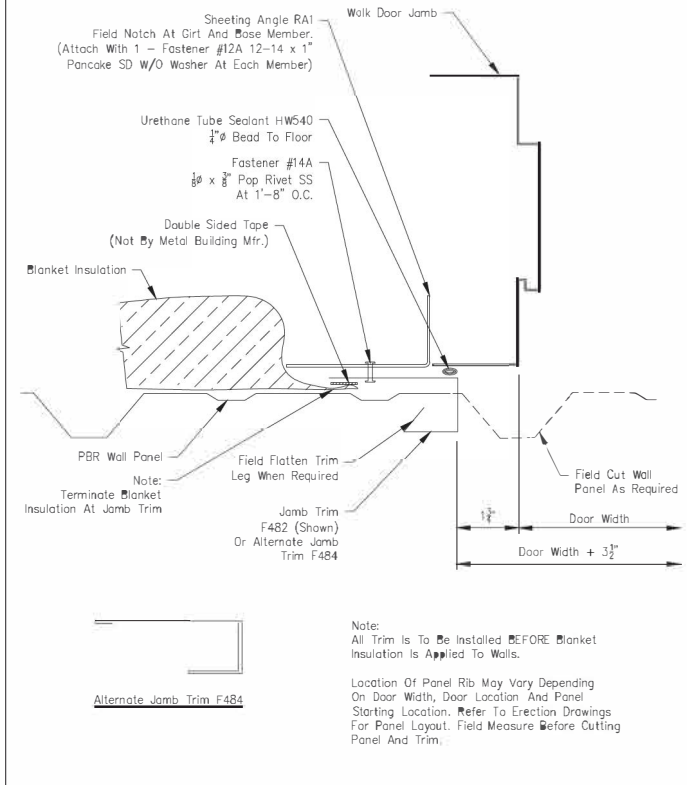
PBR Wall Panel - Walk Door And Glass-Front Walk Door Jamb Trim Field Cut Details

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PBR Wall Panel - Knock Down Door Jamb Trim Installation

Page PW09031
Date Mar '20 Rev 07



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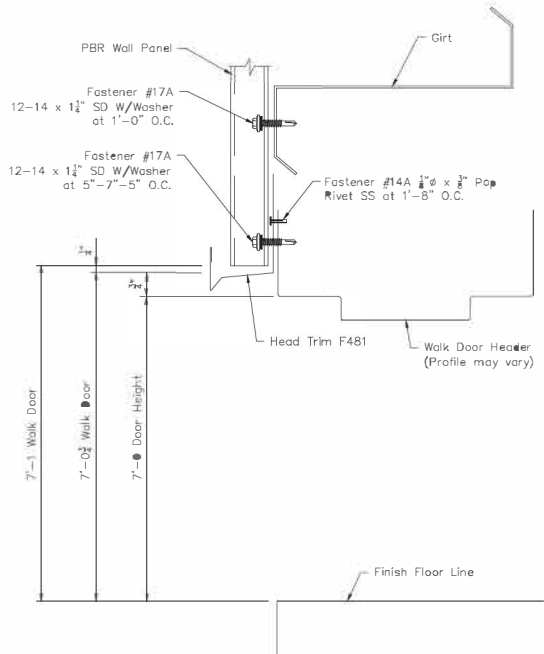
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PROJECT:	NATALIE DAVIDSON						
CUSTOMER:	THE STEEL BUILDER			OWNER: NATALIE DAVIDSON			
LOCATION:	SPARKS, NV 89441-4549 US						
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	2/ 3/23	N.T.S.	1	A	19-B-27926	DET22	0



PBR Wall Panel - Knock Down Walk Door - Head Trim Installation

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 Date Rev
 May '19 03



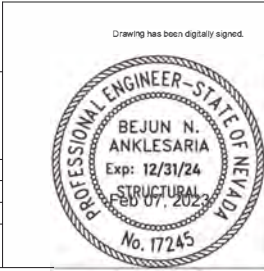
Note: All trim is to be installed BEFORE blanket insulation is applied to walls.

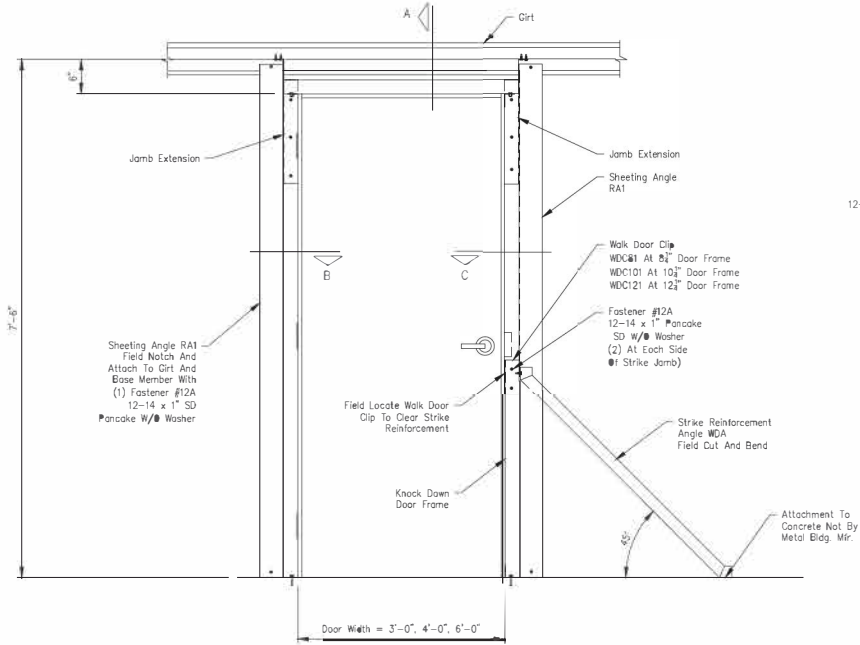
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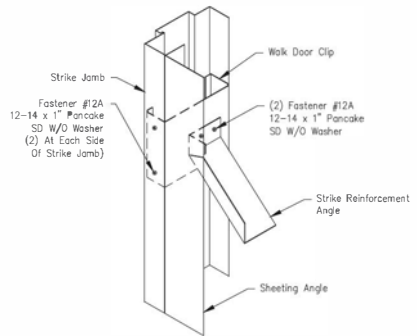
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CUSTOMER:	THE STEEL BUILDER	OWNER: NATALIE DAVIDSON					
LOCATION:	SPARKS, NV 89441-8549 US						
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	2/ 3/23	N.T.S.	T	A	19-B-27926	DET23	0

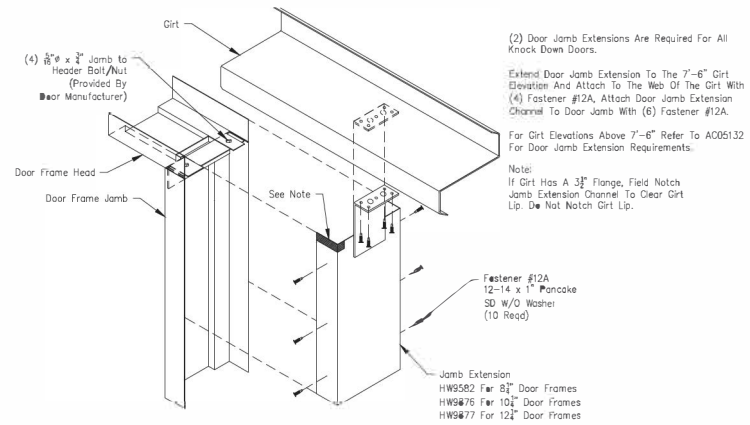




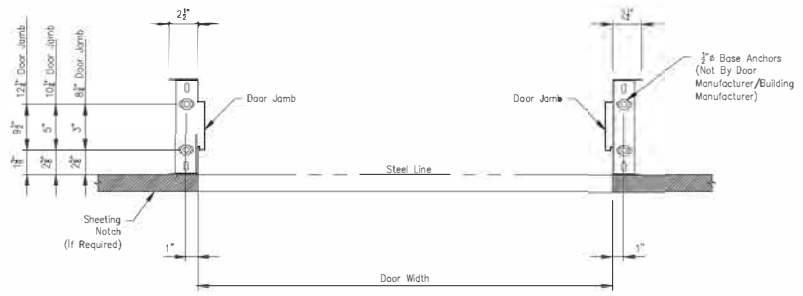
Door Elevation



Walk Door Clip/Strike Reinforcement Angle Isometric

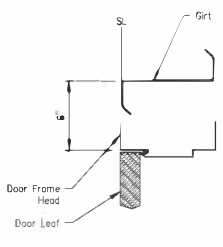


Door Jamb Extension Isometric

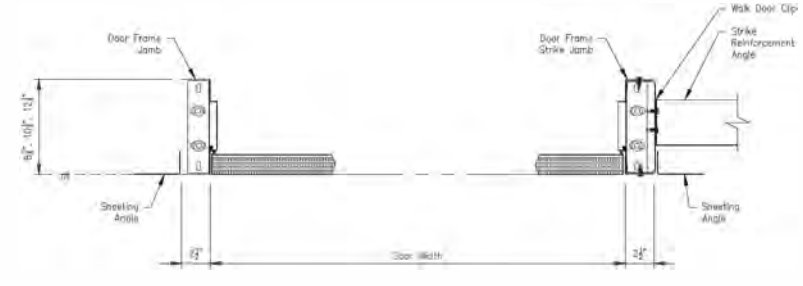


The Adequacy Of The 1/2" Base Anchor Is Not The Responsibility Of The Building Manufacturer. The Adequacy Of These Base Anchors Should Be Determined By A Qualified Foundation Engineer.
Verify Door Jamb Base Clip Dimensions With Patterns Shown Prior To Placement Of Door Anchors And Adjust Patterns If Needed.
Note: 12 1/2" Frames May Not Have Kerf Door Frame Feature Depending On Door Manufacturer.

Knock Down Door Anchor Placement



Section A



Section B

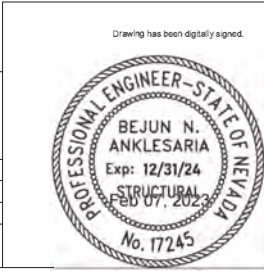
Section C

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PROJECT: NATALIE DAVIDSON	
CUSTOMER: THE STEEL BUILDER	OWNER: NATALIE DAVIDSON
LOCATION: SPARKS, NV 89441-8549 US	
CAD	DATE: 2/3/23
SCALE: N.T.S.	PHASE: 1
BUILDING ID: A	JOB NUMBER: 19-B-27926
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Drawing has been digitally signed.

Knock Down Door - Girt At 7'-6" Without Low Girt

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Field Service Procedures

In Order To Give You Prompt Service And Keep Problems To A Minimum, Please Handle Any Shortages Or Back Charges In The Following Manner:

1. Carefully Check Your Picking List While Unloading.
2. Advise Any Items Which Appear To Be Missing And Notify The Field Service Department At The Number Shown In The Title Block As Soon As Possible. Calling Someone Else Could Delay The Proper Response.

INITIAL CLAIM

In The Event Of An Error, The Customer Must Promptly Make A Written Or Verbal "Initial Claim" To The Manufacturer For The Correction Of Design, Drafting, Bill Of Materials Or Fabrication Error.

The "Initial Claim" Includes:

1. Description Of The Nature And Extent Of The Errors, Including Quantities.
2. Description Of The Nature And Extent Of Proposed Corrective Work.
3. Estimated/Material Hours.
4. Materials To Be Purchased From Other Than The Manufacturer, Including Estimated Quantities and Cost.
5. Maximum Total Cost Of Proposed Corrective Work And Materials To Be Purchased From Other Than The Manufacturer.

SHORT MATERIALS:

Immediately Upon Delivery Of Materials, Quantities Are To Be Verified By The Customer Against Quantities That Are Billed On The Shipping Documents. Neither The Manufacturer Nor The Carrier Is Responsible For Material Shortages Against The Quantities Billed On The Shipping Documents If Such Shortages Are Not Noted On The Shipping Documents When The Material Is Delivered And Acknowledged By The Carrier's Agent. If The Carrier Is The Manufacturer, Claims For Shortages Are To Be Made By The Customer To The Common Carrier. If The Carrier's Quantities Differ From Those On The Shipping Documents, But Are Less Than The Quantities Ordered Or The Quantities That Are Necessary To Complete The Metal Building According To The Order Documents, Claims Are To Be Made To The Manufacturer.

DAMAGED OR DEFECTIVE MATERIAL:

Regardless Of Insuring Materials, Regardless Of The Degree Of Damage, Must Be Noted On The Shipping Documents By The Customer And Acknowledged By The Carrier's Agent. The Manufacturer Is Not Responsible For Material Damaged In Unloading Of Packages Or Nested Materials, Including But Not Limited To: Fasteners, Sheet Metal, "C" And "Z" Sections And Covering Panels That Became Wet And/Or Damaged By Water While In The Possession Of Others. Packed And Sealed Material That Becomes Wet In Transit Must Be Unpacked, Inspected, And Dried By The Customer. If The Carrier Is The Manufacturer, The Customer Must Make Claims For Damaged Material To The Manufacturer. If Claims Are To A Common Carrier, The Customer Must Make The Claim To That Carrier. If The Common Carrier, The Manufacturer Is Not Liable For Any Claim whatsoever including, but not limited to, claims for damage to materials. Claims for damage resulting from Customer's use of damaged or defective materials that can be detected by visual inspection.

EXCESSIVE MATERIAL:

The Manufacturer Reserves The Right To Recover Any Material Delivered In Excess Of That Required By The Order.

OIL CANNING IS NOT A CAUSE FOR REJECTION

Types Of Finishes

SHOP PRIMER STEEL:

All Structural Members Of The Metal Building System Not Fabricated Of Corrosion Resistant Material Or Protected By A Corrosion Resistant Coating Are Painted With One Coat Of Shop Primer Meeting The Performance Requirements Of SSPC Paint Specification No.15. The Coat Of Shop Primer Is Intended To Protect The Steel Framing For Only A Short Period Of Exposure To Ordinary Atmospheric Conditions. Shop Primer Steel Which Is Stored In The Field Pending Erection Should Be Kept Free Of The Ground And So Positioned As To Minimize Water Hoisting Pockets. Dust, Mud And Other Contamination Of The Primer Film, Repairs Of Damaged To Primed Surfaces And/Or Removal Of Foreign Material Due To Improper Field Storage Or Site Conditions Are Not The Responsibility Of The Manufacturer. The Manufacturer Is Not Responsible For Deterioration Of The Shop Coat Of Primer Or Corrosion That May Result From Exposure To Atmospheric And Environmental Conditions, Nor The Compatibility Of The Primer To Any Field Applied Coating. Minor Abrasions To The Shop Coat (Including Galvanizing) Caused By Handling, Lifting, Shipping, Unloading And Erection After Pointing Or Galvanizing Are Unavoidable. (NEMA 2012, Chapter 4.7.4)

GALVALUME:

Galvalume Is The Trade Name For A Patented Steel Sheet And Coil Product Having A Coating Of Corrosion Resistant Aluminum-Zinc Alloy. The Mixture Is Blended To Obtain The Coating That Retains The Corrosion Resistance And Heat Reflectivity Of Aluminum And Galvanic Protection Of Zinc. The Best Properties Of Both Aluminum And Zinc Are Combined In This Coating And Offer Added Service Life For The Building.

Pre-Pointed:

Using Galvalume Steel As A Substrate, Pre-Pointed Steel Is Given An Additional Rib Inhibitor Primer Coat. This Primer Coat Further Increases The Corrosion Resistance. These Coatings Are Applied To The Exterior Surface Of The Panels And A Wash Coat Designed Only For Interior Use. Is Applied On The Opposite Side Galvalume. And Pre-Pointed Steel Can Give Excellent Service For Many Years If A Few Rules Concerning Their Care And Maintenance Are Observed. All Of These Finishes Are Equally Susceptible To Damage And Corrosion When Care Is Not Provided.

PAINT AND CORROSION MAINTENANCE:

Galvalume Finishes Form From Bare Galvalume:

- Formula 409 Has Proven To Be Somewhat Effective. Lightly Rub With A Clean Cloth And Rinse With Water. Do Not Rub More Than Required To Remove Grease. Moisture. No Product Will Remove All Smudge Marks.
- Remove Rust Stains: Soft Scrub Without Bleach Has Proven To Be Somewhat Effective. Rub With A Soft Cloth And Rinse With Water. Do Not Rub More Than Required To Remove Stain. No Product Will Completely Remove Rust Stains.
- To Touch-Up Scratches in Paint (Not Bare Metal): Clean Area To Be Painted With Mild Detergent. Rinse Thoroughly And Dry Using A Small Antistat Brush. Lightly Apply A Minimal Amount Of Color Matched Touch-Up Paint Required To Fill/Over The Scratch. Contact The Building Manufacturer For Assistance With Ordering/Purchasing Touch-Up Paint As Needed.

Engraving Guide

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Date	Jul 17 '07

Authorization For Corrective Work

Normal Erection Operations Include The Correction Of Minor Mistifs By Amounts Of Reaming, Chipping, Welding Or Cutting And The Drawing Of Elements Into Line Through The Use Of Drift Pins. Errors That Cannot Be Corrected By The Following Means Or Which Require Major Changes In The Member Configuration Should Be Reported Immediately To The Owner And The Fabricator By The Erector. To Enable Whoever Is Responsible Either To Correct The Error Or Approve The Most Efficient And Economical Method Of Correction To Be Used By Others. (AISC 333-10, Section 7.14). If The Error Is The Fault Of The Manufacturer An "Authorization For Corrective Work" Must Be Issued In Writing By The Manufacturer To Authorize The Corrective Work At A Cost Not To Exceed The Maximum Total Cost Set Forth Alternative Corrective Work Other Than That Proposed In The "Initial Claim" May Be Directed By The Manufacturer In The "Authorization Of Corrective Work". Only The Field Service Department May Authorize Corrective Work.

FINAL CLAIM:

The "Final Claim" In Writing Must Be Forwarded By The Customer To The Manufacturer Within (10) Days Of The Completion Of The Corrective Work Authorized By The Manufacturer.

THE "FINAL CLAIM" MUST INCLUDE:

1. Actual Number Of Man-Hours By Dotted Of Direct Labor Use On Corrective Work And Actual Hourly Rate Of Pay.
2. Taxes And Insurance On Total Actual Direct Labor.
3. Other Direct Costs On Actual Direct Labor.
4. Cost Of Materials (Not Minor Supplies) Authorized By The Manufacturer To Be Purchased From Other Than The Manufacturer, Including Copies Of Invoices.
5. Total Actual Direct Cost Of Corrective Work (Sum Of 1, 2, 3, And 4).

"Final Claims Are Credited To The Customer By The Manufacturer in The Amount Not To Exceed The Lesser Of The Maximum Total Cost Set Forth In The "Authorization For Corrective Work" Or The Total Direct Cost Of Corrective Work.

IMPORTANT NOTE **

Cost Of Equipment (Rental Or Depreciation), Small Tools, Supervision, Overhead And Profit Are Not Subjected To Claims.

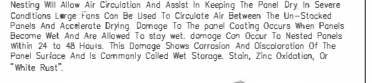
SHIPMENT ARRIVAL TIME:

Every Effort Will Be Made To See That The Carrier Arrives At The jobsite On The Requested Hour. Manufacturer Makes No Warranty And Accepts No Responsibility For Costs Associated With A Shipment Not Arriving At The Requested Time Unless A Separate Agreement Has Been Made In Writing For A Guaranteed Arrival Time.

Damage From Condensation Or Trapped Water

It Is Extremely Important That The Panels Be Monitored For Evidence Or Trapped Water Or Moisture Condensation While Awaiting Erection. High Humidity Conditions With Temperature Cycling Will Cause Condensation Between Panels Within The Bundle. Condensation Can Occur Frequently Near The Seal Coat Or Other Large Bodies Of Water.

If Jobsite Covers Are Used, They Should Be Tied Away From The Bundle At Corners To Allow Air Circulation Around The Bundle. This Will Help Prevent Moisture Escaping From The Ground Or Building Floor From Condensing On The Panels. Plastic Or Other Impermeable Covers Are Not Recommended. Immediate Action Is Required If The Panels Are Found To Be Wet From Any Cause. The Bundles Must Be Opened And Each Panel Un-Stacked And Thoroughly Dried On Both Sides. Re-Stacking The Panel At A Slight Angle To Each Other To Prevent Nesting Will Allow Air Circulation And Assist In Keeping The Panel Dry In Severe Conditions Large Fans Can Be Used To Circulate Air Between The Un-Stacked Panels And Accelerate Drying. Damage To The panel Coating Occurs When Panels Become Wet And Are Allowed To stay wet. Damage Can Occur To Nested Panels Within 24 to 48 Hours. This Damage Shows Corrosion And Discoloration Of The Panel Surface And Is Commonly Called Wet Storage, Stain, Zinc Oxidation, Or "White Rust".



A Softening Of The Point Film Can Occur With Pre-Pointed Steel Under Wet Storage Conditions And The Durability Of The Panel Finish Substantially Decrease. Bare Galvanized And Galvalume Panels React More Quickly To Surface Oxidation Than Panels With The Additional Protective Zinc Coating Or Galvalume. Panels Under Normal Exposure Form A Zinc Aluminum Oxide Film On Their Surface Allowing A Slow Oxidation Process Called "Weathering" To Occur That Inhibits Further Corrosion. In Nested Bundles Constant Contact Of The Panels With Condensed Or Trapped Water Prevents This Weathering Process.

Rapid Oxidation Of The Zinc or Zinc Aluminum Coating Can Now Occur And May Lead To "Red Rust" In A Short Time. If Discoloration Or Stains Are Minor A Household Cleaner Of The Type Used On Porcelain Sinks And Bathtubs May Be Used To Remove Stains. Wire Brushing Or Abrasive Materials Should Be Avoided Since Scratching Or Removal Of The Coating Could Occur. Panel With Significant Damage Should Be Replaced By The Buyer Prior To Erection.

DEBRIS REMOVAL:

Any Foreign Matter Such As Sawdust, Dirt, Leaves, Animal Droppings, Etc. Will Cause Corrosion Of The Roof, Gutters, Trim, Etc. If Left On The Building Surface For A Long Enough Time. The Roof Should Be Periodically Inspected For Such Conditions And, If Found, They Should Be Removed In A Manner Consistent With These Roof Maintenance Guidelines. Never Allow Treated Lumber Or Concrete/Mortar/Crout To Come In Contact With Roof Panels, Especially Galvalume For Extended Periods Of Time.

PERIODIC INSPECTION:

All High-Strength Steel Be Periodically Be Inspected For Tightness. Particularly In Crane Buildings And After Seismic Or Wind Activity. The Crane Manufacturer Will Specify A Minimum Period But It Should Not Exceed Two Years.

DRAINAGE:

1. Keep Roof Free Of Debris And Keep Debris Out Of Gutters To Allow Water Quickly Drain From The Roof.
2. Do Not Use Wood Blocking To Hold Equipment Off The Panel Seams. This Blocks The Flow Of Water And Hold Moisture.
3. Do Not Allow Rooftop AC Units Or Exhaustive Coolers To Drain Onto The Roof.
4. Anything That Traps Or Holds Moisture On A Roof Will Cause Premature Corrosion.

Unloading, Handling And Storage

STRUCTURAL:

A Great Amount Of Time And Trouble Can Be Saved If The Building Parts Are Unloaded At The Building Site According To A Pre-Arranged Plan. Proper Location And Handling Of Components Will Eliminate Unnecessary Handling.

HANDLING:

Piece Marks Are Stenciled On The Primary Structural Members At The Lower End, "1"-0" From The End, Insuring Parts Prior To Releasing The Tie-downs For Loads That May Have Shifted During Transit.

REMEMBER SAFETY FIRST:

Blocking Under Columns And Rollers Protect The Sillice Plates And The Slat From Damage During The Unloading Process. It Also facilitates The Pivoting Of Slings And Cables Around Members For Later Lifting And Allows Members To Be Bolted Together Into Sub-assemblies While On The Ground. Extra Care Should Also Be Exercised In The Unloading Operation To Prevent Injuries From Handling Steel And To Prevent Damage To Materials And The Concrete Slab. If Water Is Allowed To Remain For Extended Periods In Bundles Of Primed Parts Such As Girts, Purins, Etc., The Pigment Will Fade And The Point Will Gradually Soften Reducing Its Bond To The Steel. Therefore, Upon Receipt Of A Job, All Bundles Of Primed Parts Should Be Stored At An Angle To Allow Any Trapped Water To Drain Away And Permit Air Circulation For Drying. Puddles Of Water Should Not Be Allowed To Collect And Remain On Columns Or Rollers For Some Reason.

The Coat Of Shop Primer Is Intended To Protect The Steel Framing Only For A Short Period Of Exposure To Ordinary Atmospheric Conditions. The Coat Of Shop Primer Does Not Provide The Uniformity Of Appearance, Or The Durability And Corrosion Resistance Of A Field Applied Finish Coat Of Paint Over Shop Primer.



Work Blocking To Elevate And Slope The Panels In A Manner That Allows Moisture To Drain. Wood Blocking Placed Between Bundles Will Provide Additional Air Circulation When Handling Or Unloading The Panels. Lift Rather Than Slide Them Apart. Buried Edges May Scratch The Coated Surfaces When Sheets Are Slid Over One Another. Never Allow Panels To Be Walked On While On The Ground.

Safety Commitment

The Builder/Contractor Is Responsible For Applying And Observing All Pertinent Safety Rules And OSHA Standards As Applicable.

The Building Manufacturer Has A Commitment To Manufacture Quality Building Components That Can Be Safely Erected. However The Safety Commitment And Job Site Practices Of The Erector Are Beyond The Control Of The Building Manufacturer.

It Is Strongly Recommended That Safe Working Conditions And Accident Prevention Practices Be The Top Priority Of Any Job Site.

Local, State And Federal Safety And Health Standards, Whether Standardized Or Outdated, Should Always Be Followed To Help Ensure Worker Safety.

Make Sure All Employees Know The Safest And Most Productive Way Of Erecting A Building. Emergency Procedures Should Be Known To All Employees. Daily Meetings Highlighting Safety Procedures Are Also Recommended. The Use Of Hard Hats, Rubber Sole Shoes For Roof Work, Proper Equipment For Handling Material And Safety Nets Where Applicable Are Recommended.

For The Purposes Of Determining LIFT Requirements, No Bundle Supplied By The Manufacturer Will Exceed 4,000 Pounds. For Further Information Also Reference The Bill Of Materials For Individual Member Weights Of Structural Members. If Additional Information Is Required Contact The Field Service Department.

ICE AND SNOW REMOVAL:

Excessive Ice And Snow Removal Should Be Removed From The Roof Immediately To Prevent Damage To Roof And Possible Collapse. Do Not Use Metal Tools To remove The Ice Or Snow As This Can Damage The Point And/Or Galvalume Coatings. Also Be Careful Around Pipes And Flashings.

Be Extremely Careful If Your Roof Has Light Transmitting Panels. These Panels Will Not Support A Person's Weight And Be Difficult Or Impossible To See If They Are Covered With Ice Or Snow. See MMA Low-Rise Building Systems Manual Appendix A3 For Details On Snow Removal Procedures. These Procedures Should Commence When Half Of The Design Roof Snow Load Is Realized.

DISSEMBLY METALS:

Never Allow Your Roof To Come In Contact With Or Water Runoff From Any Dissimilar Metal Including But Not Limited To: Copper, Lead Or Galvalume. This Includes Copper And Arsenic Salts Used In Treated Lumber, Calcium Used In Concrete, Mortar And Grout.

PERIODIC INSPECTION:

All High-Strength Steel Be Periodically Be Inspected For Tightness. Particularly In Crane Buildings And After Seismic Or Wind Activity. The Crane Manufacturer Will Specify A Minimum Period But It Should Not Exceed Two Years.

DRAINAGE:

1. Keep Roof Free Of Debris And Keep Debris Out Of Gutters To Allow Water Quickly Drain From The Roof.
2. Do Not Use Wood Blocking To Hold Equipment Off The Panel Seams. This Blocks The Flow Of Water And Hold Moisture.
3. Do Not Allow Rooftop AC Units Or Exhaustive Coolers To Drain Onto The Roof.
4. Anything That Traps Or Holds Moisture On A Roof Will Cause Premature Corrosion.

Roof And Wall Panels

Manufacturer's Roof And Wall Panels Include Color Coated, Galvalume, And Galvanized. Provide Excellent Service Under Widely Varying Conditions. All Unloading And Erection Personnel Should Fully Understand That These Panels Are Quality Merchandise, Which Merits Careful Core And Handling.

UNIT # NO. OBSTACLES SHOULD PANELS BE HANDLED PROUDLY:

Packages Of Sheets Should Be Lifted Off The Truck With Extreme Care Taken To Ensure That No Damage Occurs To Ends Of The Sheets Or To Side Ribs. The Packages Should Be Stored Off The Ground Sufficiently High To Allow Air Circulation Underneath The Packages. This Avoids Ground Moisture And Deters Pests From Working On The Packages. One End Of The Package Should Be Elevated To Ensure Proper Air Flow. The Manufacturer Exercises Caution During Fabrication An Shipping Operations To Ensure That All Panel Stock Is Kept Dry. However Due To Climatic Conditions, Water Formed By Condensation Of Humid Air Becomes Trapped Between Sheets. Water Can Also Be Trapped Between The Stacked Sheets When Exposed To Rain. This May Discoloration Caused By Trapped Moisture. The Stain Is Usually Superficial And Has Little Effect On The Appearance Or Service Life Of The Panels As Long As It Not Permitted To Remain On The Panel. However, Moisture In Contact With The Surface Of The panel Over An Extended Period Can Severely Attack The Finish And Reduce The Effective Service Life. Use RI-07 Titled "Damage From Condensation Or Trapped Water".

CAUTION:

Core Should Always Be Taken When Working On Panels. Use Safety Lines And Net When Necessary. Panels Are Slippery. Wipe Dry Any Moisture Or Surface Material That Has Pooled From Bundles Stored On A Slope, Dew, Frost, Or Other Films Of Moisture Greatly Increase The Slipperiness Of The Panels. Always Assume Panel Surface Is Slippery And Act Accordingly. Never Walk Of Step On Sights Or Unsecured Panels.

Use Wood Blocking To Elevate And Slope The Panels In A Manner That Allows Moisture To Drain. Wood Blocking Placed Between Bundles Will Provide Additional Air Circulation When Handling Or Unloading The Panels. Lift Rather Than Slide Them Apart. Buried Edges May Scratch The Coated Surfaces When Sheets Are Slid Over One Another. Never Allow Panels To Be Walked On While On The Ground.



The Appearance Of The Building May Be Affected If Damaged Spots Or Scratches Are Located In Highly Visible Places Such As Around Doors, Windows, Etc. If Damage Is Extensive Then Replacement Of The Entire Panel Should Be Considered.

Roof Maintenance Guidelines

1. Inspect Roof For Damage After Heavy Storms.
2. Inspect And Repair As Necessary All Roof Curbs And Other Penetrations With Weather Sealant.
3. Always Get Manufacturer Approval Before Making Any Modifications To The Roof.
4. Report Any Areas That Are Susceptible To Rust As Required.

- a. When Performing Roof Maintenance, Always Take The Following Precautions:
 - a. Use Full Protection And Other Safety Protection As Required.
 - b. Do Not Walk On Roof Flashing Such As Gutter, Rise, Hip Or Ridge Flash, or C.
 - c. Do Not Walk On Light Transmitting Panels (LTPs). They Will Not Support A Person's Weight.
 - d. Guard All LTPs And Roof Openings.
 - e. Stay Only In The Panel Flat Directly On Or In Close Proximity To A Supporting Roof Structural.

After Other Trades Have Been On The Roof For Any Reason, Inspect The Roof For Damage Caused By Workers Including Chemical Or Solvent Spills, Scratches In The Point Or Galvalume Coating, Excessive Foot Traffic, And Nailures. Make Sure That All Debris Or Scrap Left Behind By Workers Is Removed From The Roof Immediately Avoid Using Utility Saws And Welding Equipment Over The Roof The Roof Must Adequately Protected.

FOOT TRAFFIC:

Keep Foot Traffic To A Minimum. Heavy Foot Traffic Can Cause Panning On Low Pitched Roofs. This Is Particularly True Just Updraft From The Eave And At Endgaps.

Always Walk In The Flat Of The Panel Near A Supporting Roof Structural. Do Not Walk On Trim Or In Gutters.

On Bare Galvalume Roofs, Excessive Foot Traffic May Cause Black Burnish Marks If Regular Foot Traffic Is Planned For A Roof. Provisions Should Be Made For A Purpose Designed And Installed Walkway System. In Order To Limit Access To The Roof, Roof Hatches Or Access Ladders Should Be Locked At All Times. A Sign Posted At The Access Site Stating That Only Authorized Personnel Are Allowed On The Roof In Addition A Log Book Should Be Kept Of All Visits To The Roof And The Reason For Such Visits.

DISSEMBLY METALS:

Never Allow Your Roof To Come In Contact With Or Water Runoff From Any Dissimilar Metal Including But Not Limited To: Copper, Lead Or Galvalume. This Includes Copper And Arsenic Salts Used In Treated Lumber, Calcium Used In Concrete, Mortar And Grout.

Roof And Wall Panel Damage During Construction

The Quality Of Workmanship In Steel Construction Practices And Handling Methods Used During The Construction Of The Metal Building Can Significantly Affect The Appearance And Performance Of The Building Panels. Panel Damage During Construction Can Be The Result Of Footy Installation Methods And/or Carelessness.

Overdriven Fasteners Cause indentations Or Shallow Pockets in The Panel Around The Fastener Head. Rain Water Or Condensation Moisture Combined With Atmospheric Pollutants (principally Sulfur Dioxide) And Dirt Particles Collect In These Pockets. The Combination Of Pollutants And Water Creates Acid Solutions That Will Cause Corrosion Damage To The Panel And Fastener. Rain May Wash Some Pollutants Away, But Moisture In Form Of High Humidity Can Keep These Areas Wet And Continue The Problem. Overdriving The Fastener Also Forces The Sealing Washer From Under The Head Creating A Leak At This Point. Proper Torque Adjustment Of The Screw Gun Or Preferably The Use Of A Depth Gauge Will Eliminate The Problem Of Overdriven Fasteners.

It Is Extremely Important That All Bill Drawings From The Installation Of Panel Fasteners And Fillings From The Sew Drilling Of Panels Be Removed From The Panel Surface. Corrosion Can Occur In A Matter Of Hours When These Showings Or Fillings Are Not Removed And Are In Contact With Water Or Condensed Moisture. When Panels Are Pre-Drilled Or Cut In The Stock Prior To Erection All Showings Must Be Cleaned From Both Sides Of The Panel To Prevent Corrosion Of The Panel By These Particles. It Is Imperative That The Roof Be Swept Clean At Least Daily And Carefully At Job Completion. The Final Cleaning Of The Roof Should Be Done Prior To Installing The Gutter So That The Showings Are Not Deposited Into The Gutter And Left To Corrode. Any Other Foreign Objects Or Debris Left By Construction Personnel Should Also Be Removed From The Roof During The Installation Of The Roof And The Installation Of Such Equipment As Air Condition Units, Etc.

Personnel Walking On The Panel Can Cause Damage. Workers Should Step Or Walk In The Broad Flat Areas Of The Panel And Avoid Stepping On The Panel Ends And Edges Which Can Be Bent By Careless Handling. If This Damage Is Severe, The Edges Must Be Straightened Prior To Erection. Since The Appearance And/or Weather Tightness Of The Panel Could Be Affected, Dragging One Panel Across Another Can Cut Or Abrade The Coating Causing Unsightly Marks On The Panel Surface.

Attempts To Erect Panels During Windy Conditions Should Be Avoided To Prevent Damage And Of Safety Considerations.

Leaving Dirt Piled Against The Exterior Wall Panels At The Foundation Will Cause Panel Damage. This Dirt May Be Wet Or At Least Contain Some Moisture. Mud May Have Splashed Onto The Wall During Construction. Corrosion Damage May Occur Where This Dirt Or Mud Contacts The Panel. In Areas Where Lenses Stabilization Of The Soil Is Required, Corrosion Damage From The Soil's Content Will Be Accelerated And Most Likely Be Severe. All Dirt Must Be Removed From The Panel Walls At The Time Of completion Of Work. Pre-Pointed Panels May Require Touch-up If The Coating Has Been Damaged During Handling Or Erection.

The Appearance Of The Building May Be Affected If Damaged Spots Or Scratches Are Located In Highly Visible Places Such As Around Doors, Windows, Etc. If Damage Is Extensive Then Replacement Of The Entire Panel Should Be Considered.

Never Step On Light Transmitting Panels (LTPs) Or Unloaded Roof Panels



Partially Attached Or Unattached Panels Should Never Be Walked Off!

Do Not:

1. Step On Rib At Edge Of Panel.
2. Step Near Crease In Rib At Edge Of Panel.
3. Step Within 5 Feet Of Edge On Unsecured Panel.

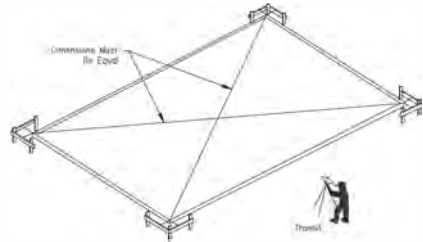
A Single Roof Panel Must Never Be Used As A Work Platform. An OSHA Approved Runway Should Be Used For Work Platforms. (Consult OSHA Safety And Health Regulations For The Construction Industry) Safety First!

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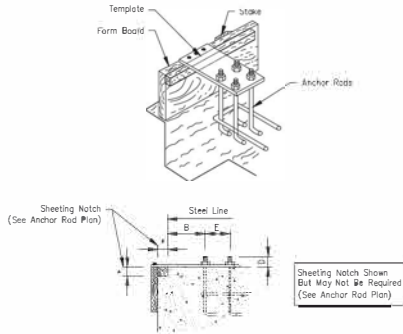


Building Anchorage

1. To Determine That The Foundation Is Square, Measure Diagonal Dimensions To Be Sure They Are Of Equal Length.
2. To Determine That The Foundation Is Level, Set Up A Transit Or Level And Use A Level Rod To Obtain The Elevation At All Columns.
3. Carefully Check The Location Of All Anchor Rods Against The Anchor Rod Setting Plan Furnished By The Manufacturer. All Dimensions Must Be Identical To Assure A Proper Start-up.



It Is Extremely Important That Anchor Rods Are Placed Accurately And In Accordance With The Anchor Rod Setting Plan. All Anchor Rods Should Be Held In Place With A Template Or Similar Means, So That They Will Remain Plumb And In Correct Location During The Placement Of The Concrete. A Final Check Should Be Made After Completion Of The Concrete Work And Prior To The Steel Installation. This Will Allow Necessary Corrections To Be Made Before Costly Installation Labor And Equipment Arrives.



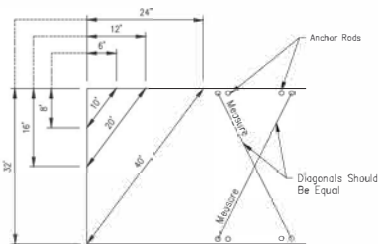
Projection Of Anchor Rods (D) Given On Anchor Rod Plan

Pre-Erection Notes:

The Following Notes, Procedures And Suggested Recommendations Are Important Parts Of The Pre-Erection Process.

- 1.) Prior To The Time The Erection Crew Arrives, A Responsible Person Should Check The Job Site For Foundation Readiness, Square, And Accuracy And Anchor Rod Size And Location.

The Drawing Shown Below Indicates A Method Which May Be Used To Check The Foundation And Bolts For Square

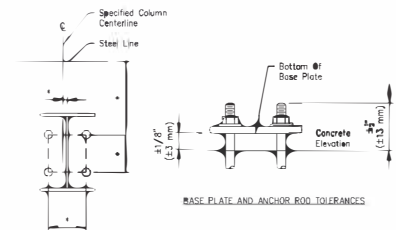


Measure Along Adjacent Sides Of Foundation Using A Pair Of Dimensions Shown. If The Diagonal Distance Between These Points Is As Noted, The Corner Is Square. Diagonal Measurements Between Opposite Anchor Rods Will Indicate If These Bolts Are Set Square

AISC Code Of Standard Practice For Steel Building And Bridges Tolerances For Setting Anchor Rods

Anchor Rod Diameter, Inches (mm) *Horizontal Variation, Inches (mm)

1/2" and 3/4" (19 And 22 mm)	1/2" (6 mm)
1", 1 1/2", 1 3/4" (25, 38, 38 mm)	3/4" (19 mm)
1 3/4", 2", 2 1/2" (44, 50, 63 mm)	1" (25 mm)



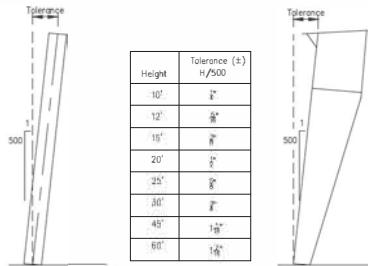
ANCHOR ROD SETTING TOLERANCES

Erection Tolerances

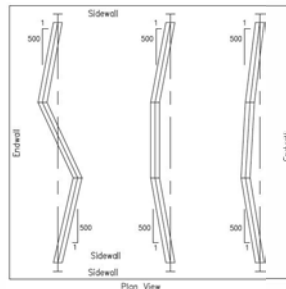
ERECTOR BRACING

It Is The Responsibility Of The Erector To Determine, Furnish And Install All Temporary Supports Such As Temporary Guys, Beams, Falsework, Cribbing, Or Other Elements Required For The Erection Operation In Accordance With Section 7.10.3 OF ANSI/ASCE 303, Code Of Standard Practice For Steel Building And Bridges).

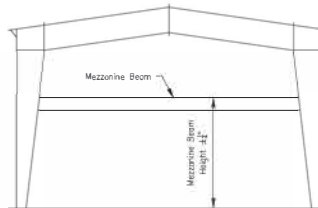
COLUMN ALIGNMENT TOLERANCES



ALIGNMENT TOLERANCE FOR MEMBERS WITH FIELD SPLICES



MEZZANINE BEAM HEIGHT TOLERANCE



General Erection Notes

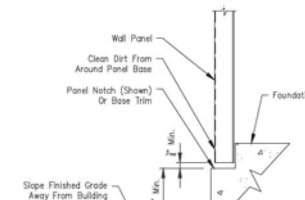
1.) All Structural Framing Members, Purlins, Girts, Clips, Flange Braces, Bolts, Bracing Systems, Roof And Wall Panels, Etc. Must Be Installed As Shown On Erection Drawings.

2.) It Is Extremely Important, Especially During Construction, That Panels At The Eaves, Rakes And Ridges Be Kept Secure.

Panel Cautions And Notes

To Minimize Potential Of Corrosive Action At The Bottom Edge Of Wall Panels, The Contractor Must Assure That The Following Procedures Are Followed:

- 1.) The Concrete Foundation Should Be Cured For A Minimum Of Seven (7) Days Before Wall Panels Are Installed. (Uncured Concrete Is Highly Alkaline And Metal Panels Can Undergo Varying Degrees Of Corrosive Attack When In Direct Contact With The Concrete.) After The First Week Of The Curing Cycle, The Reaction Between Metallic Coatings On Steel And The Concrete Is Essentially Halted.
- 2.) Top Of Finish Grade At Building To Be A Minimum Of Four (4) Inches Below Bottom Of Panel.
- 3.) Finish Grade Is To Slope Away From Building To Ensure Proper Drainage.
- 4.) Upon Completion Of Finish Grading, All Dirt Is To Be Cleared From Around Base Of Wall Panel Where It May Have Collected In Panel Notch Or On Base Trim.



Fastener Installation

Correct Fastener Installation Is One Of The Most Critical Steps When Installing Roof/Wall Panels Over The Fastener Is Until It Is Tight And The Washer Is Firmly Seated. Do Not Overdrive Fasteners. A Slight Extension Of Nuts/rope Around The Washer Is A Good Visual Tightness Check. Always Use The Proper Tool To Install Fasteners: A Fastener Driver (Screw Gun) With A RPM OF 1700-2000 Should Be Used For Self-Drilling Screws. A 500-600 RPM Fastener Driver Should Be Used For Self-Tapping Screws. Hazard Warn Sockets, These Can Cause The Fastener To Wobble During Installation.

Note: Always Remove Metal Filings From Surface of Panels At The End Of Each Work Period. Rusting Filings Can Destroy The Paint Finish And Void Any Warranty.



Tape And Tube Sealant

Proper Tape And Tube Sealant Application Is Critical To The Weather Tightness Of A Building. Tape Sealants Should Not Be Stretched When Installed. Apply Only To Clean, Dry Surfaces. Keep Only Sealants On The Roof That Can Be Installed In A Day During Warm Weather. Store Sealants In A Cool Dry Place. During Cold Weather (Below 40°) Sealants Must Be Kept Warm (60°-90°) Until Application. After Tape Sealant Has Been Applied, Keep Protective Paper In Place Until Panel Is Ready To Be Installed.

Important Note

All Details, Recommendations And Suggestions Contained In This Erection Guide Of This Drawings Set Are For General Guidelines Only And Not Meant To Be All-Inclusive. Industry Accepted Installation Practices With Regard To All Areas Not Specifically Discussed In This Section Should Be Followed. Only Experienced, Knowledgeable Installers Familiar With Accepted Practices Should Be Used To Assure A Quality Project.

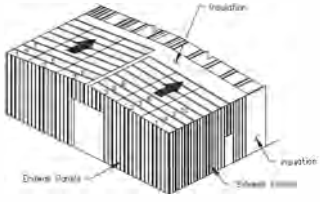
It Is Emphasized That The Manufacturer Is Only A Manufacturer Of Metal Building Components And Is Not Engaged In The Installation Of Its Products. Opinions Expressed By The Manufacturer About Installation Practices Noted In The Erection Guide Are Intended To Represent Only A Guide. Both The Quality And Safety of Installation And The Ultimate Customer Satisfaction With The Completed Building Are Determined By The Experience, Expertise, And Skills of The Installation Crews, As Well As The Equipment Available For Handling The Materials, Actual Installation Operations, Techniques And Site Conditions Are Beyond The Manufacturers Control.

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PBR Roof Panels

For PBR Roofs With Ridge Panels, It Is Recommended That Both Sides Of The Ridge Be Sheeted Simultaneously This Will Keep The Insulation Covered For The Maximum Amount Of Time And The Panel Rib Can Be Kept In Proper Alignment For The Ridge Panel. This Is Critical On The PBR Panels So That The Ridge Gaps Can Be Properly Installed. Check For Proper Coverage As The Sheeting Progresses In Certain Climate Regions



Install The First Run Of Roof Panels Across The Building From Eave To Eave Or Eave To Ridge. To Allow Proper Installation Of The Ridge Trim, The Starting Location For The First Panel Must Be As Shown In The Ridge Details Included With The Erection Drawings. When The First Run Is Properly Located And Aligned With The Correct Ends And Eave Overhangs, Fasten To Purlins. Roof Panels Should Be Installed So That The Slope Is In A Direction Away From Prevailing Wind. Refer To Appropriate Lap Details Included With The Erection Drawings.

Install Remaining Roof Insulation And Panels. To Avoid Accumulative Error Due To Panel Coverage Gain Or Loss, Properly Align Each Panel Before It Is Fastened. Occasional Checks Should Be Made To Ensure That Correct Panel Coverage Is Maintained. Special Attention Should Be Given To Fastener, Sealing and Closure Requirements. Refer To Details Included With The Erection Drawings.

At Finishing End Of Roof, The Last panels may require field modification for installation of ridge trim. Refer to ridge details included with the erection drawings. **DO NOT BACK LAP THE CLASH FASTENERS ON PBR PANELS.**

NOTE: Roof Types And Installation Requirements Will Vary Refer To The Appropriate Details For Specific Panel Used.

IMPORTANT: Loose Fasteners, Blind Rivets, Drill shavings, Etc., Must Be Removed From The Roof To Guard Against Corrosion.

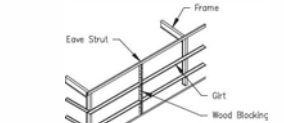
Wall Panels

Proper Horizontal And Vertical Alignment Of Supporting Structure (Girts Or Other Framing) Is The Responsibility Of The Installer. Care Must Be Taken To Align The Secondary Members Properly Prior To Wall Installation. Care Must Be Taken To Avoid Impact On The Final Appearance And Performance Of The Installed Wall System For Which The Metal Building Manufacturer Is Not Responsible.

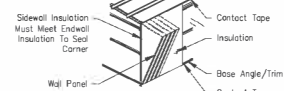
Before installing wall panels, the girts must be aligned to a level position so that there is no visible sag. This should be done directly ahead of panel installation.

Girt leveling may be accomplished by standing a section of cable angle vertically against the outside girt flanges at approximate mid-bay location. When girts are level, attach the girt flanges to the angle with vise grip pliers or temporary screws. Wood blocking cut to fit the spools may also be used for alignment.

Note: Temporary girt blocking is not recommended on concealed fastener panels. The removal of the blocks after panel installation can cause oil canning.



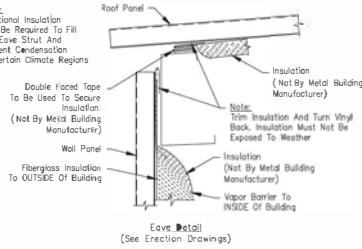
Note: Wall Panel Type And Installation Details Will Vary Refer To The Erection Drawings And Details For The Specific Panel Used For Your Building.



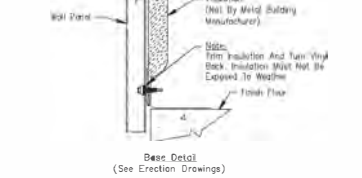
If walls are to be insulated with blanket insulation over girt/clamp flanges, base and eave, place a continuous run of contact tape along the eave strut and base member.

note: At The Base, Cut Off The Insulation A Minimum Of 2" Above The Bottom Of The Wall Panel. This Will Prevent The Insulation From Hanging Below The Wall Panel And Wicking Moisture.

Note: Additional insulation may be required to fill the eave strut and prevent condensation in certain climate regions



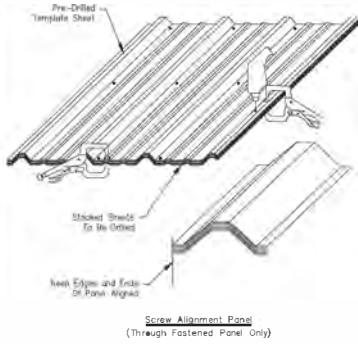
Eave Detail (See Erection Drawings)



Base Detail (See Erection Drawings)

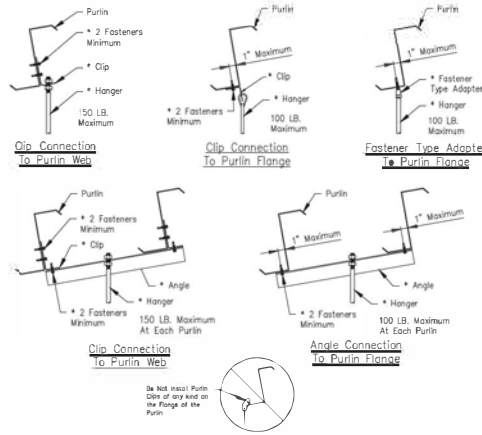
Sidewall Panels Should Be Installed So That The Panel Slope Is In A Direction Away From The Prevailing Wind. Refer To Appropriate Lap Detail Included With Erection Drawings.

Note: Check Periodically To Ensure That All Panels Are Aligned And Plumb.



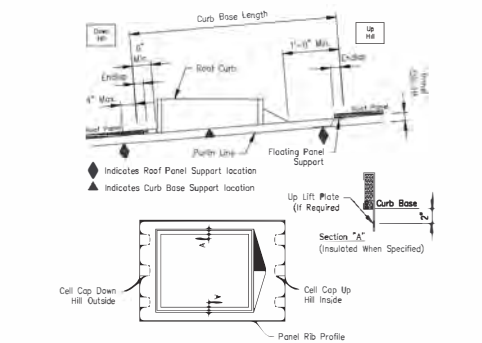
Note: After Drilling Panels, It Is Important To Clean Metal Filings Off All Panel Surfaces, Including Between Panels That Are Not Installed That Day, To Avoid Rust Stains.

Suggested Method Of Purlin Attachment For Building Accessories



* Denotes Material Not Provided By Metal Building Manufacturer.
The Total Hanger Load Shall Not Exceed The Design Colateral Load For The Building. Example: 5'-0" (Purlin Spacing) X 5'-0" (Hanger Spacing) X 6 PSF (colateral Load) = 150 Lbs.
See Cover Sheet For Design Colateral Load For This Building.
Note: If The Building Is Designed For 0 PSF Colateral Load, Then Adding Any Suspended System (i.e. Duct Work, Piping, Lights, Ceilings, Etc.) Will Correspondingly Reduce The Design Live Load.

Roof Curbs When Not Supplied By Building Manufacturer

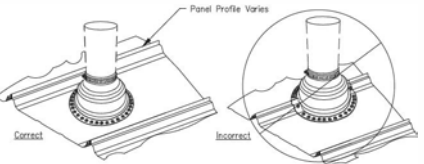


The Curb Details Shown Illustrate The Building Manufacturer's Recommended Curb Style And Installation Method. It Is The Erector/Installer's Responsibility To Provide The Proper Curb Style And Install Them In Accordance With The Procedures Established By These Details. Failure By The Erector/Installer To Follow These Recommendations May Result In The Curbs Damaging The Roof System Or Excluded From Warranties.

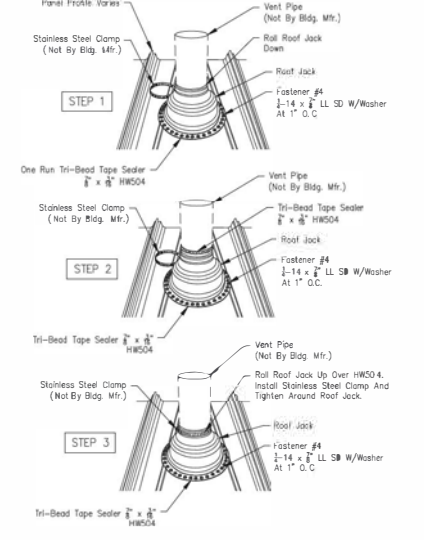
At Roof Curbs To Be:
1. .080 Aluminum Or 18 Ga. Stainless Steel (No Galvalume® Or Galvanized).
2. Panel Rib To Panel Rib (No Flat Skirt Or Lay-Over Curbs).
3. Installed With Down Hill End Over Panel And Up Hill End Under Panel Application For Water Flow At Panel Splice.
4. Up Lift Prevention For Clip Applied Roof Systems Are Required If:
a. Wind Loads Exceed 110 MPH.
b. Curb Base Crosses A Purlin.
5. Supported on (4) Sides By Primary Or Secondary Framing.
6. Maximum Single Curb Weight Recommended Is 1500 Lbs.

Roof Jack Installation when Not Supplied By Building Manufacturer

General Installation Notes
1. Do Not Use Unvented Roof Jacks, Lead Hats, Or Other Residential Grade Roof Jacks. These Roof Jacks Do Not Have 20 Year Service Life And In Case Of Lead Hats Will Cause Galvanic Corrosion Of The Roof Panel.
2. Use EPDM Rubber Roof Jacks With An Integral Aluminum Band Bonded Into The Perimeter Of The Base. EPDM Rubber Roof Jacks Have A Temperature Range From -65 F To 212F. Use Silicone Roof Jacks For High Temperatures. Silicone Roof Jacks Have A Temperature Range Of -100F To 437 F.
3. Retrofit Roof Jacks Are Available For Applications In Which The Top Of The Pipe Is Inaccessible, Eliminating The Possibility Of Sliding The Roof Jack Over The Top Of The Pipe.
4. Do Not Use Tube Sealant To Seal The Roof Jack To The Roof Panels. Use Roll Tape Sealer Between The Roof Jack And The Roof Panel And Attach The Roof Jack To The Roof Panel With Fastener #4 - 1/4 x 2" LL SS W/Washer At 1' O.C. Around The Base Of The Roof Jack. See Table Below For Quantities.
5. Trim The Top Of The Roof Jack To Fit Over The Pipe. Roll Back The Roof Jack Over The Pipe And Apply Tape Sealer For The Perimeter Of The Roof Jack Base Between The Roof Jack And The Roof Panel. Apply Tape Sealer Around The Pipe And Install A Stainless Steel Clamp (Not By Bldg. Mfr.) Over The Top Of The Roof Jack And Firmly Tighten To Form A Secure Compression Seal.
6. If The Pipe Diameter Is So Large To Block The Flow Of Water Down The Roof Panel, A Flat Base Roof Curb Must Be Installed Into The Roof And The Roof Jack Will Be Sealed To The Curb. A Two Piece Curb May Be Required When The Top Of The Pipe Is Inaccessible.
7. In Northern Climates, The Pipe Penetration Should Be Protected From Moving Ice Or Snow With A Snow Retention System Immediately Up Slope From The Pipe.



Install Pipe In Center To Allow Base Of Roof Jack To Lay Flat on Panel. Cannot Encompass More Than 75% Of Panel.



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