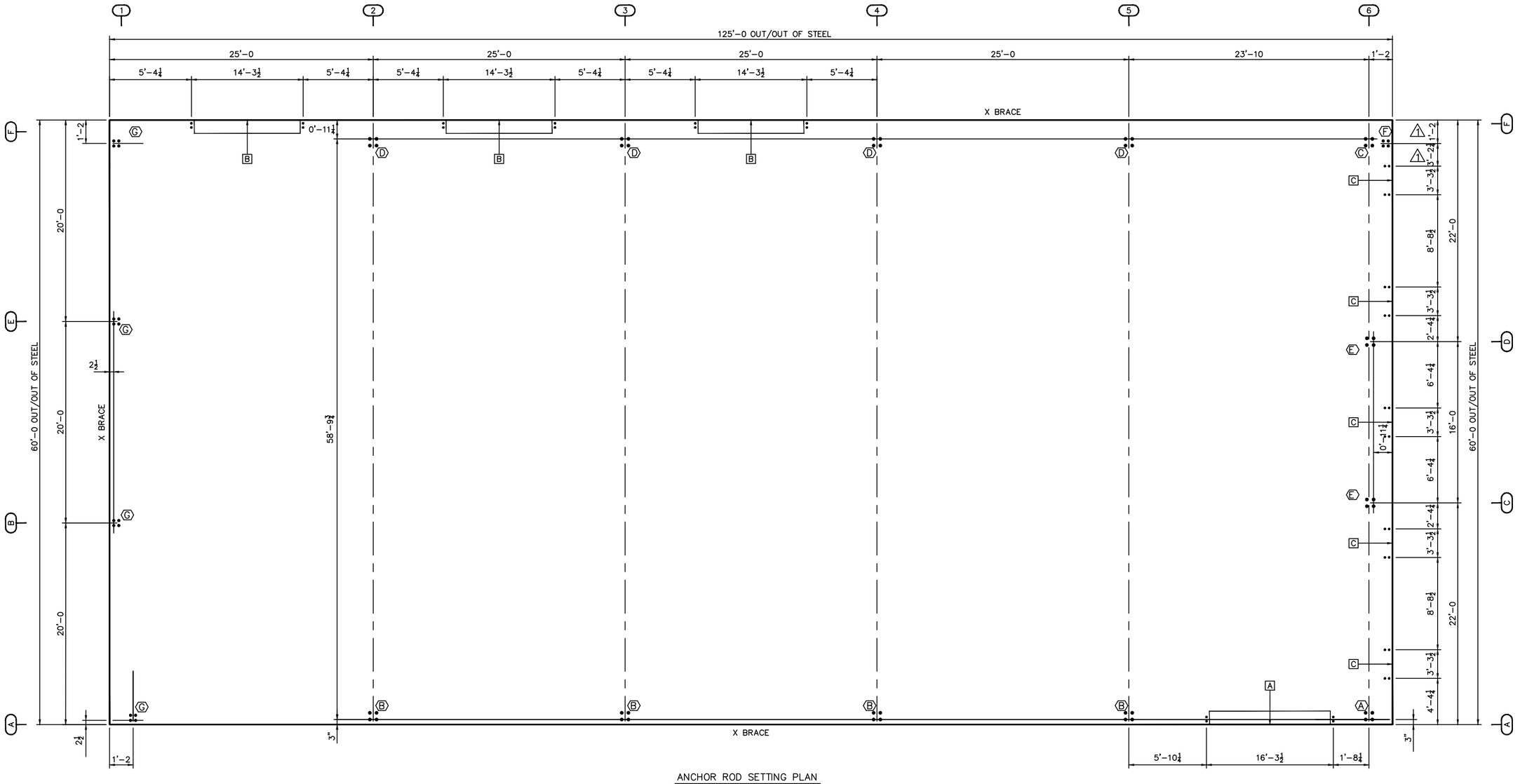
Anchor Rod Drawings

1) This drawing is for anchor rod placement only and is not foundation design.
2) Foundation must be square and level with all anchor rods true in shear, location, and projection.
3) Projection shown must be held to keep threads clear of finished concrete.
4) This structural design data includes magnitude and location of design loads and support conditions, material properties, and type and size of major structural members necessary to show compliance with the Order Documents at the time of this issue. Any change to building loads or dimensions may change structural member sizes and locations shown. This structural design data will be superseded and voided by any future mailing.
5) Anchor rod size as noted on the drawings has been determined by shear and tension at the bottom of the base plate. The length of the anchor rod and method of load transfer to the foundation are to be determined by the foundation engineer. Anchor rods are not provided by the metal building manufacturer.
6) Anchor rods are ASTM F1554 Gr. 36 material unless noted otherwise.
7) 3000 psi concrete compressive strength (f'c) is assumed for the purpose of column base plate design unless otherwise noted.

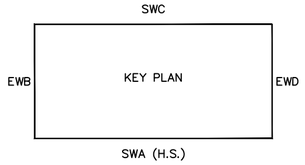
FINISH FLOOR AT ELEVATION 100'-0



ANCHOR ROD SETTING PLAN

ANCHOR BOLTS TO BE DESIGNED BY FOUNDATION ENGINEER USING DIAMETERS SHOWN IN THIS TABLE.	
ANCHOR ROD DESCRIPTION	QUANTITY
⅝"ø DIAMETER X	56
¾"ø DIAMETER X	48

ACCESSORY SCHEDULE			
MARK	DESCRIPTION	DETAIL	QUAN.
A	16'-0 X 9'-0 FRAMED OPENINGS	I	1
B	14'-0 X 14'-0 FRAMED OPENINGS	I	3
C	3'-0 X 7'-0 FRAMED OPENINGS	H	5



Revision	Date	Description	By	Ck'd
1	04/02/25	Revised per changed dimensions.	JMV	VAG

Cornerstone Building Brands
13105 Northwest Freeway, Suite 500
Houston, TX 77040
cornerstonebuildingbrands.com

Project Name & Location:
JM PHELPS CONSTRUCTION
300 SW WINDSWEPT GLN
LAKE CITY FL 32024-0694

Customer:
JM PHELPS CONSTRUCTION-
17760 BEACH PARK TRL
PANAMA CITY BEACH FL 324
JUSTIN PHELPS

☐ Issued For Approval (Not For Construction)
☐ Issued For Permit
☒ Issued For Construction

Drawing Status:

Scale: NOT TO SCALE
Drawn by:
Checked by:
Project Engineer: JXV
Job Number: 19-B-90423-1
Sheet Number: F1 of 3

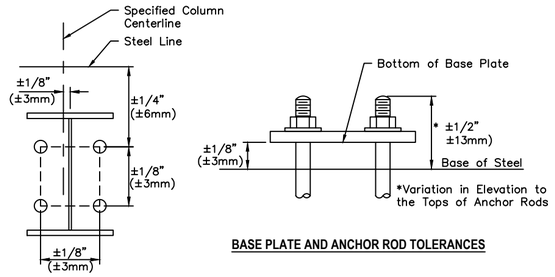
The engineer whose seal appears hereon is employed by or is contracted to provide engineering services for the manufacturer, Cornerstone Building Brands or one of its affiliates, for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.

KE HU, P.E.
FLORIDA P.E. 88271

KE HU
LICENSE
No. 88271
STATE OF FLORIDA
PROFESSIONAL ENGINEER
May 06, 2025

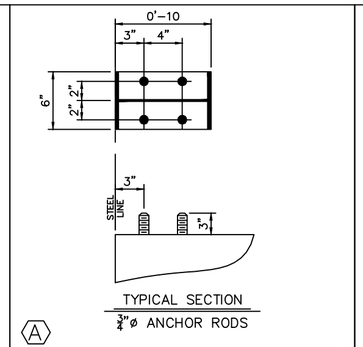
This item has been electronically signed and sealed by Ke Hu, P.E. on the date and/or time stamp shown using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified by a 3rd Party Certificate Authority on any electronic copy.

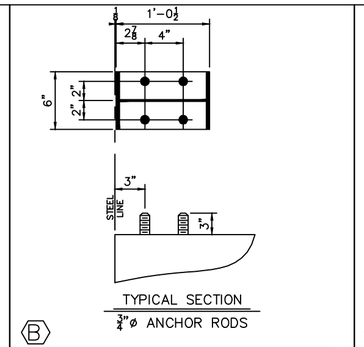
AISC CODE OF STANDARD PRACTICE TOLERANCES FOR SETTING ANCHOR RODS

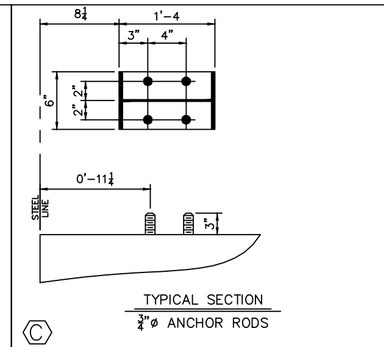


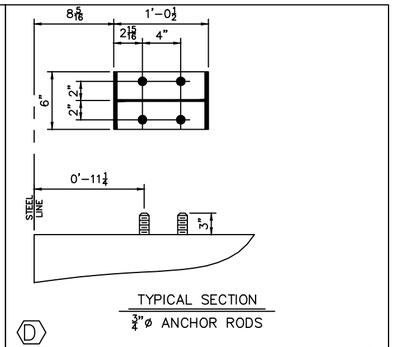
BASE PLATE AND ANCHOR ROD TOLERANCES

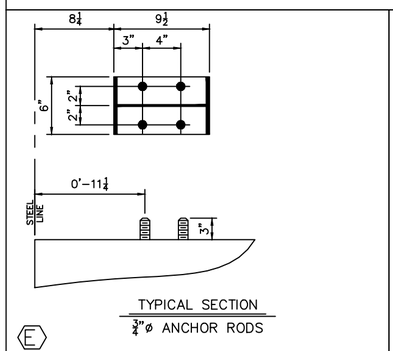
ANCHOR ROD SETTING TOLERANCES

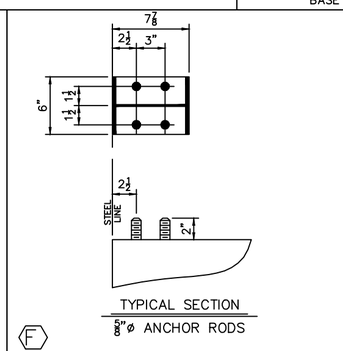


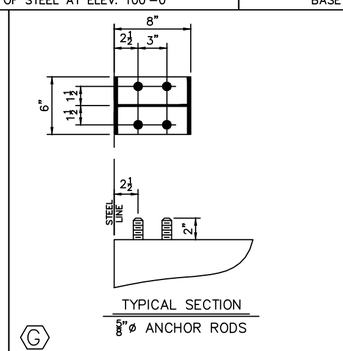


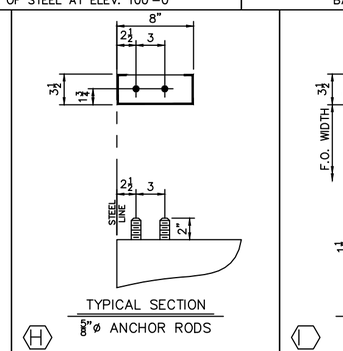


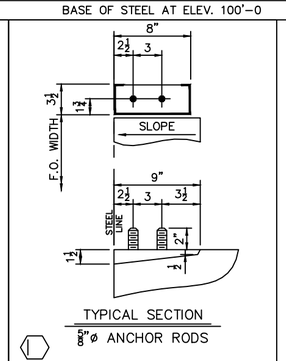












Revision	Date	Description	By	Ck'd
1	04/02/25	No changes on this page.	JMV	VAG

Cornerstone Building Brands
13105 Northwest Freeway, Suite 500
Houston, TX 77040
cornerstonebuildingbrands.com

Project Name & Location:
JM PHELPS CONSTRUCTION
300 SW WINDSWEPT GLN
LAKE CITY FL 32024-0694

METALLIC BUILDING SYSTEMS
Part of the Cornerstone Building Brands Family

Customer:
JM PHELPS CONSTRUCTION-
17760 BEACH PARK TRL
PANAMA CITY BEACH FL 324
JUSTIN PHELPS

Drawing Status:
☐ *Issued For Approval (Not For Construction)*
☐ *Issued For Permit*
☒ *Issued For Construction*

Scale: NOT TO SCALE
Drawn by:
Checked by:
Project Engineer: JXV
Job Number: 19-B-90423-1
Sheet Number: F2 of 3

The engineer whose seal appears hereon is employed by or is contracted to provide engineering services for the manufacturer, Cornerstone Building Brands or one of its affiliates, 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.

KE HU, P.E.
FLORIDA P.E. 88271

KE HU
LICENSE
No. 88271
STATE OF FLORIDA
PROFESSIONAL ENGINEER
May 06, 2025

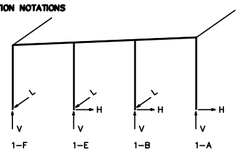
This item has been electronically signed and sealed by Ke Hu, P.E. on the date and/or time stamp shown using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified by a 3rd Party Certificate Authority on any electronic copy.

FRAME DESCRIPTION: Endwall ENG | USER NAME: john.val | JOB NAME: 90423A | DATE: 03/20/25 | FILE: REWBLDG1 | PAGE: EW-1

PATH: R:\Jobs\Active\Eng\19-B-90423\ver01-john.valcheff\BLDG-A\run01\

SUPPORT REACTIONS FOR EACH LOAD GROUP
NOTE: All reactions are in kips and kip-ft. TIME: 16:34:51

REACTION NOTATIONS



LOAD GROUP REACTION TABLE

COLUMN	1-F			1-E			1-B			1-A		
LOAD GROUP	H	V	L	H	V	L	H	V	L	H	V	L
D	0.	0.4	0.0	0.	0.9	−0.1	0.	1.0	−0.1	0.0	0.7	0.
C	0.	0.3	0.0	0.	0.8	0.0	0.	0.9	0.0	0.0	0.3	0.
L	0.	2.1	−0.1	0.	5.2	−0.3	0.	5.4	−0.3	0.0	2.0	0.
W+	0.	−6.0	2.3	0.	−13.4	5.3	0.	−13.9	5.7	0.1	−5.7	0.
W−	0.	−6.0	−2.2	0.	−13.4	−4.6	0.	−13.9	−4.9	0.1	−5.7	0.
WR	0.	−6.0	0.3	0.	−7.3	0.7	−5.8	−20.0	0.7	0.1	−5.7	0.
WL	0.	−6.0	0.3	4.2	−18.0	0.7	0.	−9.3	0.7	0.1	−5.7	0.

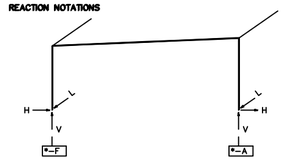
LOAD GROUP DESCRIPTION

D : Dead load
C : Collateral load
L : Live load
W+ : Wind load as an inward acting pressure
W− : Wind load as an outward acting suction
WR : Wind force from the right
WL : Wind force from the left

FRAME ID #1 sm 60./21./25. 20./120./0. | USER NAME: john.valcheff | JOB NAME: 90423A | DATE: 03/25/25 | PAGE: 1-2 | FILE: frames_2-5.fra

SUPPORT REACTIONS FOR EACH LOAD GROUP
*LOCATION: Gridlines: 2 3 4 5
NOTES: (1) All reactions are in kips and kip-ft. TIME: 13:40:55
(2) Primary wind load cases are not concurrent.
(3) X-bracing reactions (RBPULW and RBUPEQ) are combined withLWL and LEQ groups only.

REACTION NOTATIONS



LOAD GROUP REACTION TABLE GRIDLINES * = 2 3 4 5

COLUMN	*-F			*-A		
LOAD GROUP	H	V	L	H	V	L
DL	0.6	3.0	−0.0	−0.6	3.0	−0.0
LL	2.0	9.1	−0.0	−2.0	8.9	−0.0
COLL	0.5	2.3	−0.0	−0.5	2.2	−0.0
WL1	−8.5	−19.4	−0.0	−2.6	−11.0	−0.0
WL2	−9.0	−11.6	−0.0	−2.1	−3.4	−0.0
WL3	4.8	−10.4	−0.0	9.0	−20.0	−0.0
WL4	4.2	−2.6	−0.0	9.6	−12.4	−0.0
LWL1	0.2	−17.5	−0.0	−0.9	−12.9	−0.0
RBUPLW	0.3	−14.4	−17.2	−0.3	−14.0	−14.9
LWL2	0.2	−13.9	−0.0	−0.9	−16.5	−0.0
LWL3	−0.4	−9.7	−0.0	−0.3	−5.3	−0.0
LWL4	−0.4	−6.1	−0.0	−0.3	−8.9	−0.0
RBDWLW	−0.1	14.4	−0.0	0.1	14.0	−0.0

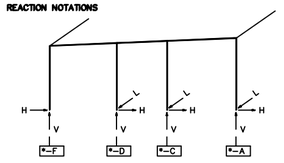
LOAD GROUP DESCRIPTION

DL : Roof Dead Load
LL : Roof Live Load
COLL : Roof Collateral Load
WL1 : Wind from Left to Right with +GCpi
WL2 : Wind from Left to Right with −GCpi
WL3 : Wind from Right to Left with +GCpi
WL4 : Wind from Right to Left with −GCpi
LWL1 : Windward Corner Left with +GCpi
RBUPLW : Upward Acting Rod Brace Load from Long. Wind
LWL2 : Windward Corner Right with +GCpi
LWL3 : Windward Corner Left with −GCpi
LWL4 : Windward Corner Right with −GCpi
RBDWLW : Downward Acting Rod Brace Load from Long. Wind

FRAME ID #2 sem2 60./21./13.083 20./120 | USER NAME: john.valcheff | JOB NAME: 90423A | DATE: 03/25/25 | PAGE: 2-2 | FILE: frame_6.fra

SUPPORT REACTIONS FOR EACH LOAD GROUP
*LOCATION: Gridlines: 6
NOTES: (1) All reactions are in kips and kip-ft. TIME: 13:37:29
(2) Primary wind load cases are not concurrent.
(3) X-bracing reactions (RBPULW and RBUPEQ) are combined withLWL and LEQ groups only.

REACTION NOTATIONS



LOAD GROUP REACTION TABLE GRIDLINES * = 6

COLUMN	*-F			*-A			*-D			*-C		
LOAD GROUP	H	V	L	H	V	L	H	V	L	H	V	L
DL	0.0	0.9	−0.0	−0.0	0.9	−0.0	0.0	1.2	−0.0	0.0	1.3	−0.0
COLL	0.0	0.4	−0.0	−0.0	0.4	−0.0	0.0	0.7	−0.0	−0.0	0.8	−0.0
PLL1	0.1	2.8	−0.0	−0.1	0.2	−0.0	0.0	3.5	−0.0	−0.0	−0.8	−0.0
PLL2	−0.0	−0.2	−0.0	0.0	−0.2	−0.0	−0.0	2.2	−0.0	0.0	2.2	−0.0
PLL3	0.1	0.2	−0.0	−0.1	2.6	−0.0	−0.0	−0.8	−0.0	0.0	3.7	−0.0
LL	0.2	2.8	−0.0	−0.2	2.6	−0.0	0.0	4.9	−0.0	−0.0	5.2	−0.0
WL1	−5.6	−9.8	−0.0	−3.5	−0.7	−0.0	0.0	−2.2	−0.0	−0.0	−9.3	−0.0
WL2	−6.7	−8.1	−0.0	−2.4	0.9	−0.0	0.0	0.3	−0.0	−0.0	−7.1	−0.0
LWL1	1.7	−5.7	−0.0	−2.1	−3.0	2.0	0.2	−8.4	−5.3	−0.0	−4.8	−5.3
LWL2	1.6	−3.7	−0.0	−2.0	−4.9	2.0	0.2	−4.1	−5.3	−0.0	−9.1	−5.3
LWL3	0.3	−4.4	−0.0	−1.1	−1.2	−2.3	−0.2	−5.5	5.3	0.0	−2.9	5.3
LWL4	0.3	−2.4	−0.0	−1.0	−3.1	−2.3	−0.2	−1.2	5.3	0.0	−7.2	5.3
WL3	7.3	3.8	−0.0	4.0	−7.9	−0.0	−0.0	−14.8	−0.0	0.0	−3.1	−0.0
WL4	6.2	5.5	−0.0	5.1	−6.3	−0.0	−0.0	−12.3	−0.0	0.0	−0.8	−0.0

LOAD GROUP DESCRIPTION

DL : Roof Dead Load
COLL : Roof Collateral Load
PLL1 : Pattern Live Load [PLLxx]
PLL2 : Pattern Live Load [PLLxx]
PLL3 : Pattern Live Load [PLLxx]
LL : Roof Live Load
WL1 : Wind from Left to Right with +GCpi
WL2 : Wind from Left to Right with −GCpi
LWL1 : Windward Corner Left with +GCpi
LWL2 : Windward Corner Right with +GCpi
LWL3 : Windward Corner Left with −GCpi
LWL4 : Windward Corner Right with −GCpi
WL3 : Wind from Right to Left with +GCpi
WL4 : Wind from Right to Left with −GCpi

ADDITIONAL NOTES:

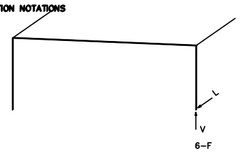
(1) Pattern live or snow load cases are not concurrent with any other live or snow load cases.

FRAME DESCRIPTION: Endwall ENG | USER NAME: john.val | JOB NAME: 90423A | DATE: 03/20/25 | FILE: REWBLDG1 | PAGE: EW-2

PATH: R:\Jobs\Active\Eng\19-B-90423\ver01-john.valcheff\BLDG-A\run01\

SUPPORT REACTIONS FOR EACH LOAD GROUP
NOTE: All reactions are in kips and kip-ft. TIME: 16:34:51

REACTION NOTATIONS



LOAD GROUP REACTION TABLE

Extra at 6-F		
H	V	L
0.	0.	0.
0.	0.	1.7
0.	0.	−2.6

LOAD GROUP DESCRIPTION

D : Dead load
W+ : Wind load as an inward acting pressure
W− : Wind load as an outward acting suction

NOTES

1) 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.
2) THE REACTIONS PROVIDED HAVE BEEN CREATED WITH THE FOLLOWING LAYOUT (UNLESS NOTED OTHERWISE).
a) A REACTION TABLE IS PROVIDED WITH THE REACTIONS FOR EACH LOAD GROUP.
b) RIGID FRAMES
(1) GABLED BUILDINGS
(a) LEFT AND RIGHT COLUMNS ARE DETERMINED AS IF VIEWING THE LEFT SIDE OF THE BUILDING, AS SHOWN ON THE ANCHOR ROD DRAWING, FROM THE OUTSIDE OF THE BUILDING.
(b) INTERIOR COLUMNS ARE SPACED FROM LEFT SIDE TO RIGHT SIDE.
(2) SINGLE SLOPE BUILDINGS
(a) LEFT COLUMN IS THE LOW SIDE COLUMN.
(b) RIGHT COLUMN IS THE HIGH SIDE COLUMN.
(c) INTERIOR COLUMNS ARE SPACED FROM LOW SIDE TO HIGH SIDE.
c) ENDWALLS
(1) LEFT AND RIGHT COLUMNS ARE DETERMINED AS IF VIEWING THE WALL FROM THE OUTSIDE.
(2) INTERIOR COLUMNS ARE SPACED FROM LEFT TO RIGHT.
d) ANCHOR ROD SIZE IS DETERMINED BY SHEAR AND TENSION AT THE BOTTOM OF THE BASE PLATE. THE LENGTH OF THE ANCHOR ROD AND METHOD OF LOAD TRANSFER TO THE FOUNDATION ARE TO BE DETERMINED BY THE FOUNDATION ENGINEER.
e) ANCHOR RODS ARE ASTM F1554 Gr. 36 MATERIAL UNLESS NOTED OTHERWISE ON THE ANCHOR ROD LAYOUT DRAWING.
f) X-BRACING
(1) ROD BRACING REACTIONS HAVE BEEN INCLUDED IN VALUES SHOWN IN THE REACTION TABLES.
(2) FOR IBC AND UBC BASED BUILDING CODES, WHEN X-BRACING IS PRESENT IN THE SIDEWALL, INDIVIDUAL LONGITUDINAL SEISMIC LOADS (RBUPEQ AND RBDWEQ) DO NOT INCLUDE THE AMPLIFICATION FACTOR, Ω_0.
(3) FOR CANADA BUILDING CODE (NBC), WHEN X-BRACING IS PRESENT IN THE SIDEWALL OR ENDWALL, INDIVIDUAL LONGITUDINAL SEISMIC LOADS (RBUPEQ & RBDWEQ) ARE MULTIPLIED BY FORCE REDUCTION FACTOR, Rd, WHEN SPECIFIED SHORT-PERIOD SPECTRAL ACCELERATION RATIO $I_E F_a S_a(0.2)$ IS GREATER THAN 0.45.
3) REACTIONS ARE PROVIDED AS UN-FACTORED FOR EACH LOAD GROUP APPLIED TO THE COLUMN. THE FOUNDATION ENGINEER WILL APPLY THE APPROPRIATE LOAD FACTORS AND COMBINE THE REACTIONS IN ACCORDANCE WITH THE BUILDING CODE AND DESIGN SPECIFICATIONS TO DETERMINE BEARING PRESSURES AND CONCRETE DESIGN. THE FACTORS APPLIED TO LOAD GROUPS FOR THE STEEL COLUMN DESIGN MAY BE DIFFERENT THAN THE FACTORS USED IN THE FOUNDATION DESIGN.
a) FOR PROJECTS USING ULTIMATE DESIGN WIND SPEEDS SUCH AS 2012 IBC, 2015 IBC, OR FLORIDA BUILDING CODE, THE WND LOAD REACTIONS ARE AT A STRENGTH VALUE WITH A LOAD FACTOR OF 1.0.
b) FOR IBC CODES, THE SEISMIC REACTIONS PROVIDED ARE AT A STRENGTH LEVEL AND DO NOT CONTAIN THE RHO FACTOR.
c) FOR NBCC CODES, THE SEISMIC REACTIONS PROVIDED DO NOT CONTAIN THE R_d*R_o 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.

Revision	Date	Description	By	Ck'd
1	04/02/25	No changes on this page.	JMV	VAG

Cornerstone Building Brands
13105 Northwest Freeway, Suite 500
Houston, TX 77040
cornerstonebuildingbrands.com

Project Name & Location:
JM PHELPS CONSTRUCTION
300 SW WINDSWEPT GLN
LAKE CITY FL 32024-0694

METAL BUILDING SYSTEMS — Part of the Cornerstone Building Brands Family

Customer:
JM PHELPS CONSTRUCTION-
17760 BEACH PARK TRL
PANAMA CITY BEACH FL 324
JUSTIN PHELPS

Drawing Status:
☐ Issued For Approval (Not For Construction)
☐ Issued For Permit
☒ Issued For Construction

Scale: NOT TO SCALE
Drawn by:
Checked by:
Project Engineer: JXV
Job Number: 19-B-90423-1
Sheet Number: F3 of 3

The engineer whose seal appears hereon is employed by or is contracted to provide engineering services for the manufacturer, Cornerstone Building Brands or one of its affiliates, 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.

KE HU, P.E.
FLORIDA P.E. 88271

KE HU LICENSE No. 88271 STATE OF FLORIDA PROFESSIONAL ENGINEER
May 06, 2025

This item has been electronically signed and sealed by Ke Hu, P.E. on the date and/or time stamp shown using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified by a 3rd Party Certificate Authority on any electronic copy.

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 COSP June 2016 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.

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 COSP June 2016 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 COSP June 2016 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 manufacturers 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 06 Sections 3.2.2 and 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."

METALLIC BUILDING SYSTEMS
Part of the **Cornerstone Building Brands** Family
Sales: 866.800.6353
metallic.com

ENGINEERING DESIGN CRITERIA

```
Building Code ..................: FLORIDA BUILDING CODE, 8TH EDITION (2023)
Building Risk Category .........: Normal (Risk Category II)
Roof Dead Load
     Superimposed ..............: 2.56 psf
     Collateral ................: 3.00 psf
     (3.00 psf Other)
Roof Live Load .................: 20.00 psf reduction allowed

Wind
     Ultimate Wind Speed (Vult) ..: 120 mph
     Nominal Wind Speed (Vasd) ...: 93 mph (IBC section 1609.3.1)
     Serviceability Wind Speed ...: 76 mph
     Ground Elevation Factor .....: 1.00 (0 ft ASL)
     Wind Exposure Category ......: C
     Exposure Coefficient (MWFRS): 0.911
     Enclosure Classification ....: Enclosed Building
     Internal Pressure Coef (GCpi): 0.18/-0.18
     Wall Loads for components not provided by building manufacturer
     Zone 5 Areas (within 6.00' of corner) : 31.21 psf pressure -41.61 psf suction
     Zone 4 Areas (away from corners)      : 31.21 psf pressure -33.81 psf suction
     These values are the maximum values required based on a 10 sq ft area.
     Components with larger areas may have lower wind loads.
```

DEFLECTION CRITERIA

The material supplied by the manufacturer has been designed with the following minimum deflection criteria. The actual deflection may be less depending on actual load and actual member length.

BUILDING DEFLECTION LIMITS .....: BLDG-A

Roof Limits		Rafters	Purlins	Panels
Live:	L/	180	150	60
Serviceability Wind:	L/	180	180	60
Total Gravity:	L/	120	120	60
Total Uplift:	L/	N/A	N/A	60

Frame Limits		Sidesway
Live:	H/	60
Serviceability Wind:	H/	60
Seismic Drift:	H/	N/A
Total Gravity:	H/	60
Service Seismic:	H/	N/A

Wall Limits		Limit
Total Wind Panels:	L/	60
Total Wind Girts:	L/	90
Total Wind EW Columns:	L/	120

The Service Seismic limit as shown here is at service level loads.

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" are 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. For Canada, material properties conform to CAN/CSA G40.20/G40.21 or equivalent.

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

All bolted joints with A325 Type 1 bolts are specified as snug-tightened joints in accordance with the most recent edition of the RCSC Specification for Structural Joints Using ASTM A325 or A490 Bolts. Pre-tensioning methods, including turn-of-nut, calibrated wrench, twist-off-type tension-control bolts or direct-tension-indicator are NOT required. Installation inspection requirements for Snug Tight Bolts (Specification for Structural Joints Section 9.1) is suggested.

Design criteria as noted is as given within order documents and is applied in general accordance with the applicable provisions of the model code and/or specification indicated. Neither the metal building manufacturer nor the certifying engineer declares or attests that the loads as designated are proper for local provisions that may apply or for site specific parameters. The design criteria is supplied by the builder, project owner, or an Architect and/or Engineer of Record for the overall construction project.

This project is designed using manufacturer's standard serviceability criteria. Generally this means that all deflections are within typical performance limits for normal occupancy and standard metal building products.

This metal building system is designed as an Enclosed Building. Exterior and/or operable components including, but not limited to, doors, windows, vents, etc. ('Components') must be designed to withstand the required component and cladding wind pressures specified by the building code. In order to maintain the metal building system's Enclosed Building condition, all Components shall be closed when wind velocities reach half the designed wind load for the metal building system as shown on the drawings and design criteria documentation. Failure to maintain the metal building system's Enclosed Building condition will violate and void all warranties and certifications applicable to the material supplied by the metal building manufacturer.

Framed openings, walk doors, and open areas shall be located in the bay and elevation as shown in the erection drawings. The cutting or removal of girts shown on the erection drawings due to the addition of framed openings, walk doors, or open areas not shown may void the design certifications supplied by the metal building manufacturer.

Roof and wall panels have been designed in accordance with section 2222.4 of the Florida Building Code. Product approval numbers for the State of Florida, Department of Community Affairs per Product Rule 9B-72:
1. Panel Walls
   FL42378.10 PBR 26
   FL42378.6 24 gauge ShadowRib
2. Roofing Products
   FL42382.1 DoubleLok 24 gauge roofs, 24" wide

Using 8.1" x 6.3125" eave gutter with 4 x 5 downspouts, the roof drainage system has been designed using the method outlined in the MBMA Metal Building Systems Manual. Downspout locations have not been located on these drawings. The downspouts are to be placed on the building sidewalls at a spacing not to exceed 40 feet with the first downspout from both ends of the gutter run within 20 feet of the end. Downspout spacing that does not exceed the maximum spacing will be in compliance with the building code. The gutter and downspout system as provided by the manufacturer is designed to accommodate 10 in/hr rainfall intensity.

This jobsite is located in a hurricane prone region with wind speeds of 166 mph or greater. In order to maintain the enclosed classification and design for wind all doors, windows and wall mounted light transmitting panels (LTP) provided by the metal building manufacturer shall be protected by impact resistant coverings. The material may include but is not limited to 7/16 structural wood panels as prescribed by the local building code. The customer's Design Professional, not metal building manufacturer engineer, is responsible for determining the adequacy of material acting as the impact resistant covering by others and attachment to the material provided by the metal building manufacturer. This structure has not been designed to withstand the additional internal pressure required by Code as a partially enclosed condition in the absence of impact resistant coverings.

Cornerstone Building Brands
13105 Northwest Freeway, Suite 500
Houston, TX 77040
cornerstonebuildingbrands.com

Field Services: 844.840.4603
field.services@cornerstone-bb.com

Drawing Index

Revision	Date	Description	By	Ck'd

Cornerstone Building Brands
13105 Northwest Freeway, Suite 500
Houston, TX 77040
cornerstonebuildingbrands.com

Project Name & Location:
JM PHELPS CONSTRUCTION
300 SW WINDSWEPT GLN
LAKE CITY FL 32024-0694

Customer:
JM PHELPS CONSTRUCTION-
17760 BEACH PARK TRL 324
PANAMA CITY BEACH FL
JUSTIN PHELPS

Drawing Status:
☐ Issued For Approval (Not For Construction)
☐ Issued For Permit
☒ Issued For Construction

Scale: NOT TO SCALE
Drawn by: JMV 4/8/25
Checked by:
Project Engineer: JXV
Job Number: 19-B-90423-1
Sheet Number: E1 of 12

The engineer whose seal appears hereon is employed by or is contracted to provide engineering services for the manufacturer, Cornerstone Building Brands or one of its affiliates, 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.

KE HU, P.E.
FLORIDA P.E. 88271

Download panel installation manuals from:
www.CBBmanuals.com

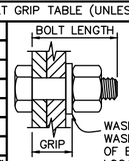
Descargue los manuales de instalación del panel desde:
www.CBBmanuals.com

BUILDING DESCRIPTIONS

Building ID	Width	Length	Height	Slope
Building A	60'-0	125'-0	21'-0	1/2:12

7/8"ø A325 BOLT GRIP TABLE (UNLESS NOTED)

GRIP	LENGTH
0 TO 9/16"	1 1/4"
Over 9/16" TO 1 1/16"	1 3/4"
Over 1 1/16" TO 1 9/16"	2 1/4"
Over 1 9/16" TO 2 1/16"	2 3/4"
Over 2 1/16" TO 2 9/16"	3 1/4"
Over 2 9/16" TO 4 13/16"	5 1/2"
LOCATIONS OF BOLTS LONGER THAN 5 1/2" NOTED ON ERECTION DRAWINGS	

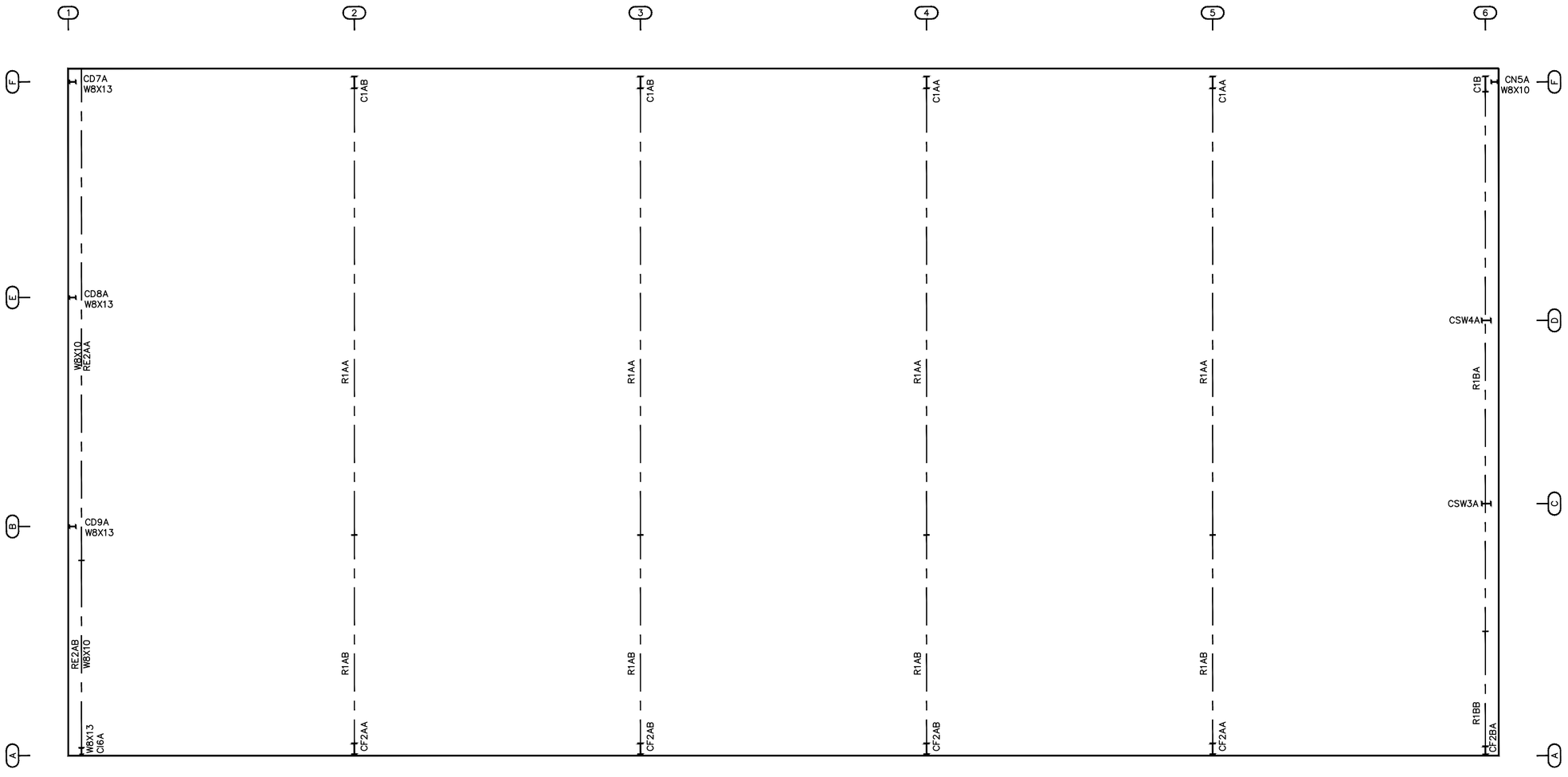


NOTE: FULL THREAD ENGAGEMENT IS DEEMED TO HAVE BEEN MET WHEN THE END OF THE BOLT IS FLUSH WITH THE FACE OF THE NUT.

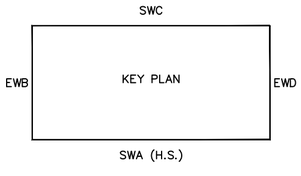
WASHER REQUIRED ONLY WHEN SPECIFIED. WASHER MAY BE LOCATED UNDER HEAD OF BOLT, UNDER NUT, OR AT BOTH AT LOCATIONS NOTED ON ERECTION DRAWINGS. ADD 5/32" FOR EACH WASHER TO MATERIAL THICKNESS TO DETERMINE GRIP.

KE HU
LICENSE
No. 88271
STATE OF FLORIDA
PROFESSIONAL ENGINEER
May 06, 2025

This item has been electronically signed and sealed by Ke Hu, P.E. on the date and/or time stamp shown using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified by a 3rd Party Certificate Authority on any electronic copy.



PRIMARY STEEL LOCATION PLAN



Revision	Date	Description	By	Ck'd

Cornerstone Building Brands
13105 Northwest Freeway, Suite 500
Houston, TX 77040
cornerstonebuildingbrands.com

METAL.I.C BUILDING SYSTEMS
Part of the Cornerstone Building Brands Family

Project Name & Location:
JM PHELPS CONSTRUCTION
300 SW WINDSWEPT GLN
LAKE CITY FL 32024-0694

Customer:
JM PHELPS CONSTRUCTION-
17760 BEACH PARK TRL
PANAMA CITY BEACH FL 324
JUSTIN PHELPS

☐ Issued For Approval (Not For Construction)
☐ Issued For Permit
☒ Issued For Construction

Drawing Status:

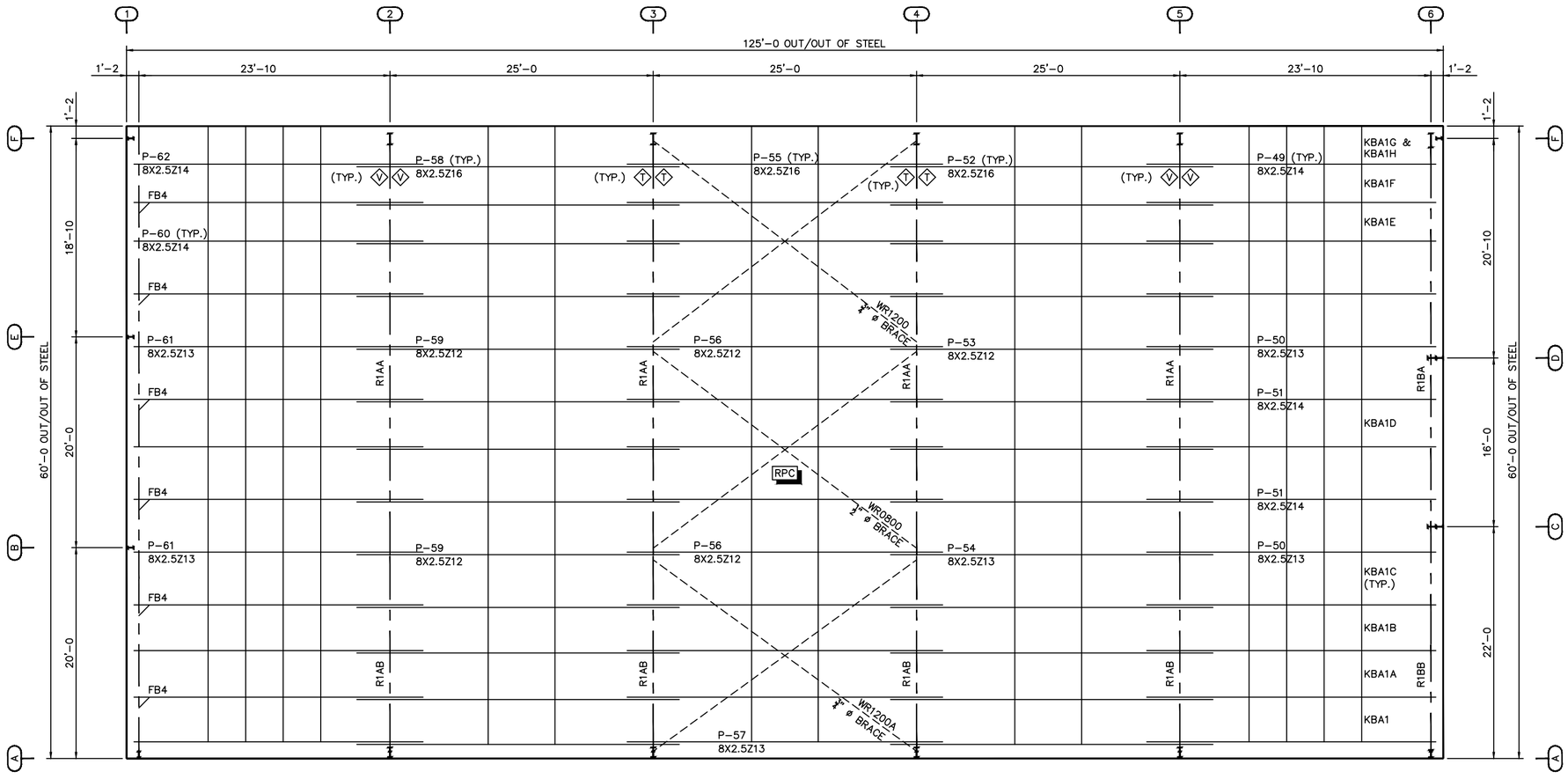
Scale:	NOT TO SCALE
Drawn by:	JMV 4/8/25
Checked by:	
Project Engineer:	JXV
Job Number:	19-B-90423-1
Sheet Number:	E2 of 12

The engineer whose seal appears hereon is employed by or is contracted to provide engineering services for the manufacturer, Cornerstone Building Brands or one of its affiliates, 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.

KE HU, P.E.
FLORIDA P.E. 88271

KE HU
LICENSE
No. 88271
STATE OF FLORIDA
PROFESSIONAL ENGINEER
May 08, 2025

This item has been electronically signed and sealed by Ke Hu, P.E. on the date and/or time stamp shown using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified by a 3rd Party Certificate Authority on any electronic copy.



ROOF FRAMING PLAN

SWC

EWB KEY PLAN EWD

SWA (H.S.)

ZEE SECTION LAP TABLE			
SYMBOL	LAP LENGTH	SYMBOL	LAP LENGTH
G	−0'−0¼"	T	2'−5¾"
S	0'−3¾"	V	3'−1¾"
R	1'−5¾"	REFER TO CF01122	

Revision	Date	Description	By	Ck'd

Cornerstone Building Brands
13105 Northwest Freeway, Suite 500
Houston, TX 77040
cornerstonebuildingbrands.com

METALLIC BUILDING SYSTEMS
Part of the Cornerstone Building Brands Family

Project Name & Location:
JM PHELPS CONSTRUCTION–
300 SW WINDSWEPT GLN
LAKE CITY FL 32024-0694

Customer:
JM PHELPS CONSTRUCTION–
17760 BEACH PARK TRL
PANAMA CITY BEACH FL 324
JUSTIN PHELPS

Drawing Status:
☐ Issued For Approval (Not For Construction)
☐ Issued For Permit
☒ Issued For Construction

Scale: NOT TO SCALE
Drawn by: JMV 4/8/25
Checked by:
Project Engineer: JXV
Job Number: 19−B−90423−1
Sheet Number: E3 of 12

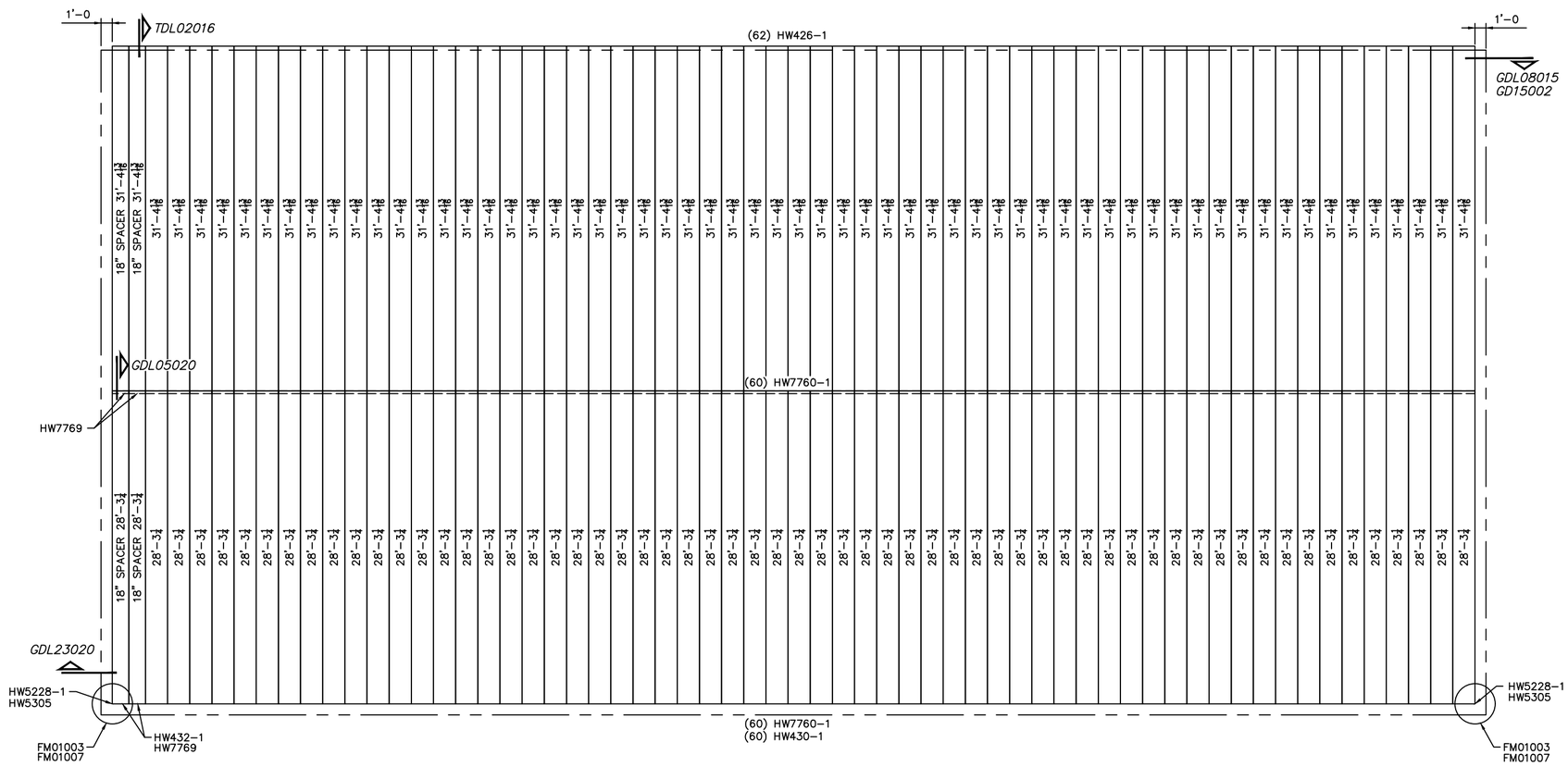
The engineer whose seal appears hereon is employed by or is contracted to provide engineering services for the manufacturer, Cornerstone Building Brands or one of its affiliates, for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.

KE HU, P.E.
FLORIDA P.E. 88271

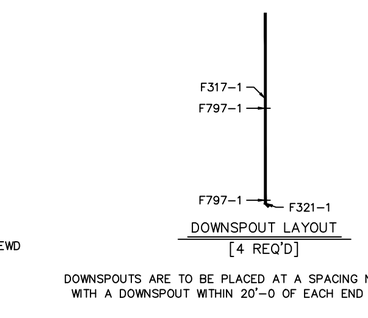
KE HU
LICENSE
No. 88271
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
May 06, 2025

This item has been electronically signed and sealed by Ke Hu, P.E. on the date and/or time stamp shown using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified by a 3rd Party Certificate Authority on any electronic copy.

ROOF SHEETING PLANE 1
PANEL TYPE = DLK (GALVALUME PLUS)
PANEL OVERHANG = 4½
FROM OUTER STEEL

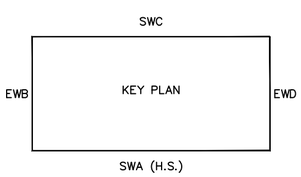


ROOF SHEETING PLAN



DOWNSPOUT LAYOUT
[4 REQ'D]

DOWNSPOUTS ARE TO BE PLACED AT A SPACING NOT TO EXCEED 40'-0 WITH A DOWNSPOUT WITHIN 20'-0 OF EACH END OF THE GUTTER RUN.



Revision	Date	Description	By	Ck'd

Cornerstone Building Brands
13105 Northwest Freeway, Suite 500
Houston, TX 77040
cornerstonebuildingbrands.com

Project Name & Location:
JM PHELPS CONSTRUCTION
300 SW WINDSWEPT GLN
LAKE CITY FL 32024-0694

Customer:
JM PHELPS CONSTRUCTION-
17760 BEACH PARK TRL
PANAMA CITY BEACH FL 324
JUSTIN PHELPS

Drawing Status:
☐ Issued For Approval (Not For Construction)
☐ Issued For Permit
☒ Issued For Construction

Scale: NOT TO SCALE
Drawn by: JMV 4/8/25
Checked by:
Project Engineer: JXV
Job Number: 19-B-90423-1
Sheet Number: E4 of 12

The engineer whose seal appears hereon is employed by or is contracted to provide engineering services for the manufacturer, Cornerstone Building Brands or one of its affiliates, 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.

KE HU, P.E.
FLORIDA P.E. 88271

KE HU
LICENSE
No. 88271
STATE OF FLORIDA
PROFESSIONAL ENGINEER
May 06, 2025

This item has been electronically signed and sealed by Ke Hu, P.E. on the date and/or time stamp shown using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified by a 3rd Party Certificate Authority on any electronic copy.

Non-Standard PBR Wall Panel Fasteners

#3A member fasteners are to be used for panel to secondary attachment in lieu of #17A shown on the R Drawings

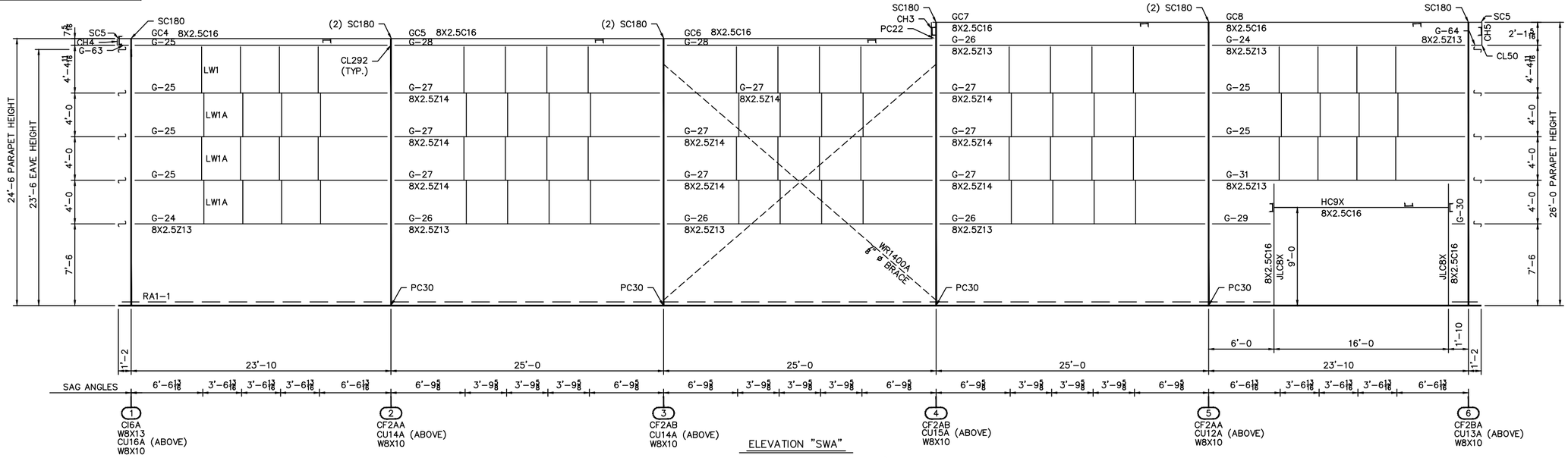
#4 lap fasteners are to be used for panel to panel and panel to trim attachment in lieu of #4A shown on the R Drawings

NOTE: GIRTS AND/OR WALL PANELS MAY REQUIRE FIELD CUTTING AT FRAMED OPENINGS, WALK DOORS, WINDOWS, LOUVERS, OPEN AREAS, AND/OR CONSTRUCTION (NOT BY STAR) AREAS.

REFER TO DETAILS ON INSTALLATION OF WALK DOORS.
REFER TO DETAILS ON INSTALLATION OF FRAMED OPENINGS.
USE STANDARD WALL PROCEDURES TO ERECT THE SIDEWALL AND ENDWALL PANELS.

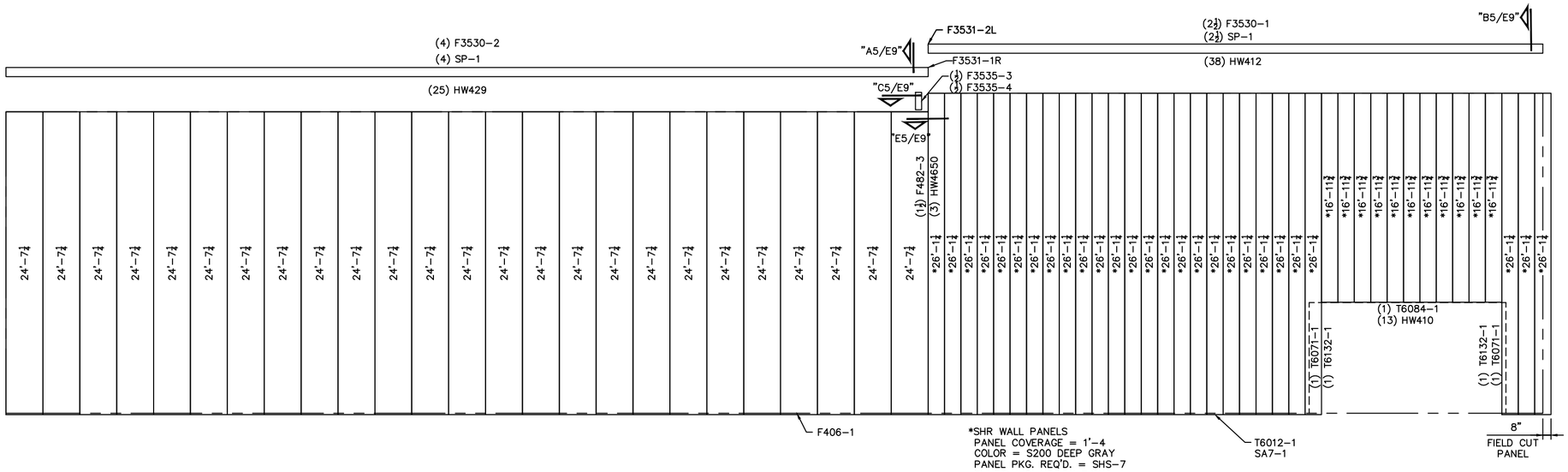
SCHEDULE OF ACCESSORIES

NO. REQD	DESCRIPTION
3	14'–0 X 14'–0 FACTORY LOCATED FRAMED OPENINGS
1	16'–0 X 9'–0 FACTORY LOCATED FRAMED OPENING
5	3'–0 X 7'–0 FACTORY LOCATED FRAMED OPENINGS
2	3070 KNOCK–DOWN WALK DOORS



ELEVATION "SWA"

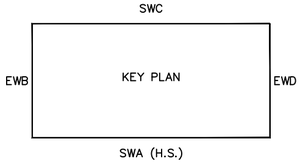
ALL G_'S ARE 8X2.5Z16 (TYP. U.N.O.)



PBR WALL PANELS
PANEL COVERAGE = 3'–0
COLOR = S200 ASH GRAY
PANEL PKG. REQ'D. = PBS–2
Field Cut Panel and Trim as required per Construction Details

*SHR WALL PANELS
PANEL COVERAGE = 1'–4
COLOR = S200 DEEP GRAY
PANEL PKG. REQ'D. = SHS–7
Field Cut Panel and Trim as required per Construction Details

WALL SHEETING ELEVATION "SWA"
BLD'G "A"



ZEE SECTION LAP TABLE			
SYMBOL	LAP LENGTH	SYMBOL	LAP LENGTH
C	–0'–0¼"	T	2'–5¾"
S	0'–3¾"	V	3'–1¼"
R	1'–5¾"	REFER TO CF01122	

Revision	Date	Description	By	Ck'd

Cornerstone Building Brands
13105 Northwest Freeway, Suite 500
Houston, TX 77040
cornerstonebuildingbrands.com

Project Name & Location:
JM PHELPS CONSTRUCTION
300 SW WINDSWEPT GLN
LAKE CITY FL 32024–0694

Customer:
JM PHELPS CONSTRUCTION–
17760 BEACH PARK TRL
PANAMA CITY BEACH FL 324
JUSTIN PHELPS

Drawing Status:
☐ Issued For Approval (Not For Construction)
☐ Issued For Permit
☒ Issued For Construction

Scale: NOT TO SCALE
Drawn by: JMV 4/8/25
Checked by:
Project Engineer: JXV
Job Number: 19–B–90423–1
Sheet Number: E5 of 12

The engineer whose seal appears hereon is employed by or is contracted to provide engineering services for the manufacturer, Cornerstone Building Brands or one of its affiliates, 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.

KE HU, P.E.
FLORIDA P.E. 88271

KE HU
LICENSE
No. 88271
STATE OF FLORIDA
PROFESSIONAL ENGINEER
May 06, 2025

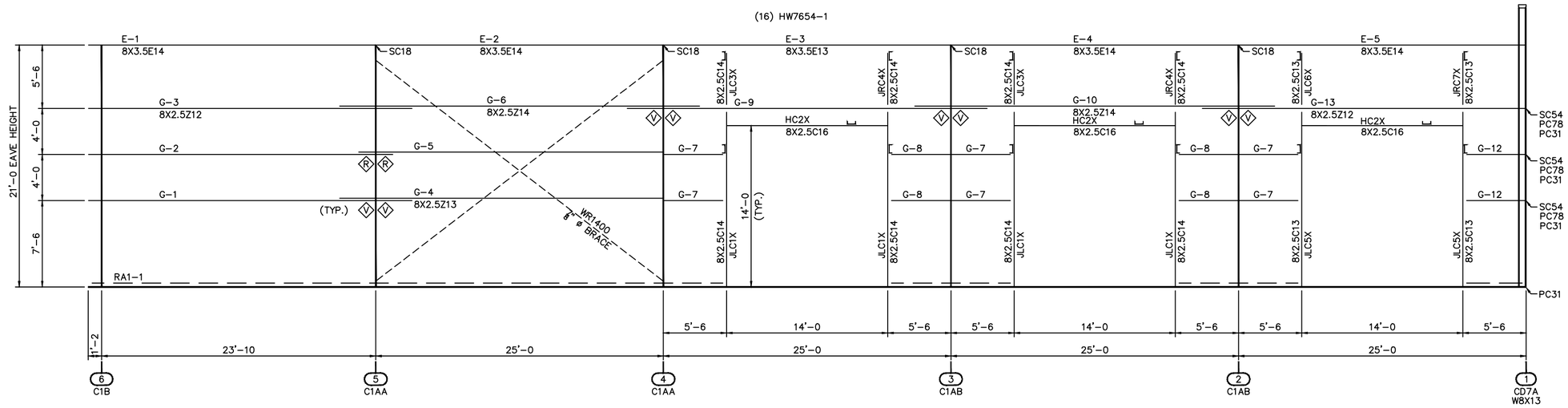
This item has been electronically signed and sealed by Ke Hu, P.E. on the date and/or time stamp shown using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified by a 3rd Party Certificate Authority on any electronic copy.

Non-Standard PBR Wall Panel Fasteners

#3A member fasteners are to be used for panel to secondary attachment in lieu of #17A shown on the R Drawings

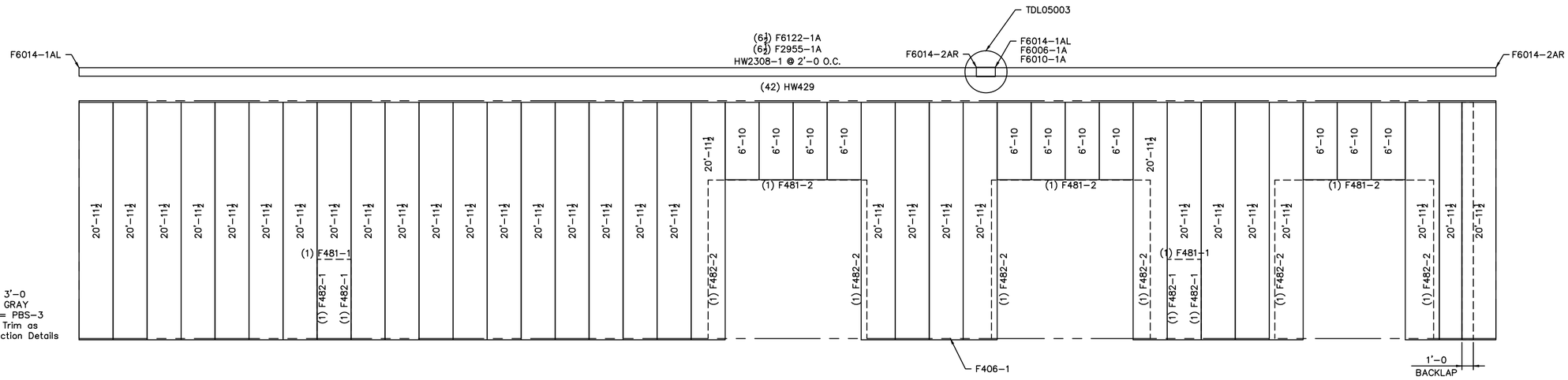
#4 lap fasteners are to be used for panel to panel and panel to trim attachment in lieu of #4A shown on the R Drawings

NOTE: GIRTS AND/OR WALL PANELS MAY REQUIRE FIELD CUTTING AT FRAMED OPENINGS, WALK DOORS, WINDOWS, LOUVERS, OPEN AREAS, AND/OR CONSTRUCTION (NOT BY STAR) AREAS.



ELEVATION "SWC"

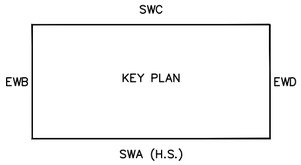
ALL G_'S ARE 8X2.5Z16 (TYP. U.N.O.)



PBR WALL PANELS
PANEL COVERAGE = 3'-0
COLOR = S200 ASH GRAY
PANEL PKG. REQ'D. = PBS-3
Field Cut Panel and Trim as required per Construction Details

WALL SHEETING ELEVATION "SWC"

BLD'G "A"



ZEE SECTION LAP TABLE			
SYMBOL	LAP LENGTH	SYMBOL	LAP LENGTH
G	−0'−0¼"	T	2'−5¾"
S	0'−3¾"	V	3'−1¾"
R	1'−5¼"	REFER TO CF01122	

This item has been electronically signed and sealed by Ke Hu, P.E. on the date and/or time stamp shown using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified by a 3rd Party Certificate Authority on any electronic copy.

KE HU LICENSE No. 88271 STATE OF FLORIDA PROFESSIONAL ENGINEER
May 06, 2025

Revision	Date	Description	By	Ck'd

Cornerstone Building Brands
13105 Northwest Freeway, Suite 500
Houston, TX 77040
cornerstonebuildingbrands.com

Project Name & Location:
JM PHELPS CONSTRUCTION
300 SW WINDSWEPT GLN
LAKE CITY FL 32024-0694

Customer:
JM PHELPS CONSTRUCTION-
17760 BEACH PARK TRL
PANAMA CITY BEACH FL 324
JUSTIN PHELPS

Part of the Cornerstone Building Brands Family

☒ Issued For Construction
☐ Issued For Approval (Not For Construction)
☐ Issued For Permit

Drawing Status:

Scale: NOT TO SCALE
Drawn by: JMV 4/8/25
Checked by:
Project Engineer: JXV
Job Number: 19-B-90423-1
Sheet Number: E6 of 12

KE HU, P.E.
FLORIDA P.E. 88271

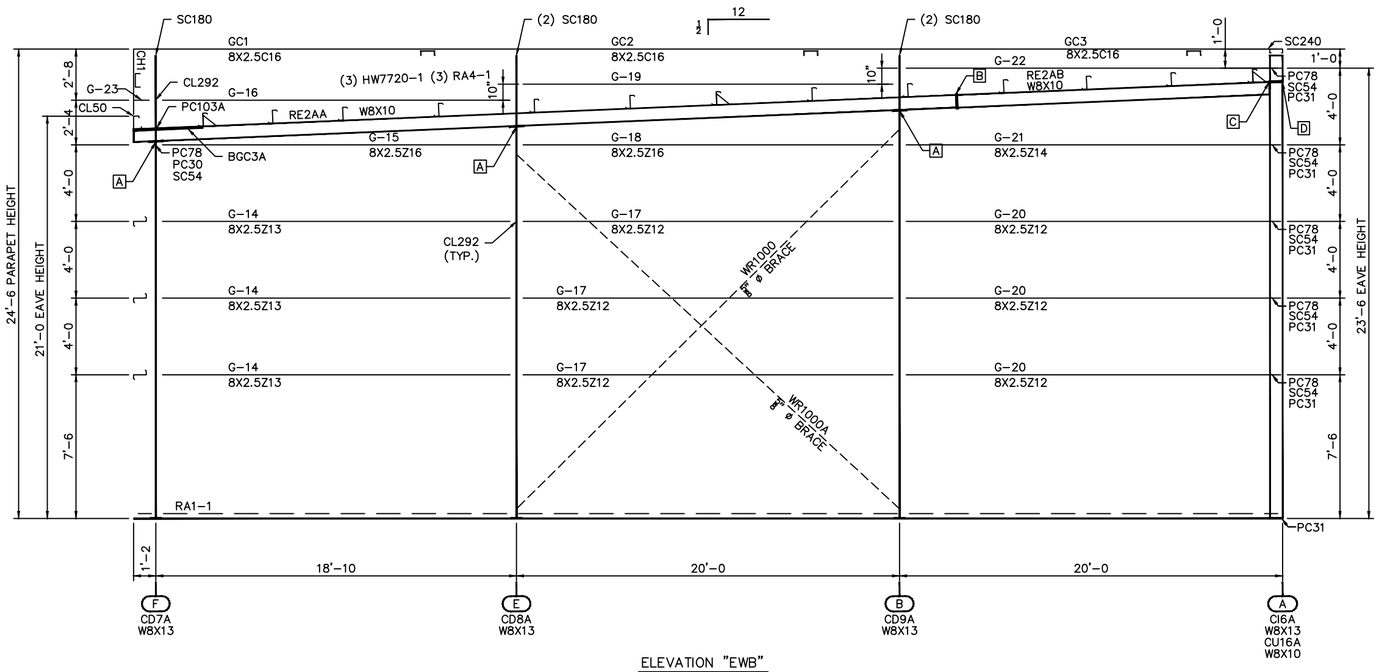
SPLICE BOLT TABLE				
CONN.	QTY. SIZE	TYPE	HARDENED WASHERS	BEVELED WASHERS
A	(4) ½ X 1¾	A325 B&N	4	0
B	(4) ½ X 1¾	A325 B&N	0	0
C	(2) ½ X 1¾	A325 B&N	0	0
D	(4) ½ X 1¾	A325 B&N	0	0

Non-Standard PBR Wall Panel Fasteners

#3A member fasteners are to be used for panel to secondary attachment in lieu of #17A shown on the R Drawings

#4 lap fasteners are to be used for panel to panel and panel to trim attachment in lieu of #4A shown on the R Drawings

NOTE: GIRTS AND/OR WALL PANELS MAY REQUIRE FIELD CUTTING AT FRAMED OPENINGS, WALK DOORS, WINDOWS, LOUVERS, OPEN AREAS, AND/OR CONSTRUCTION (NOT BY STAR) AREAS.

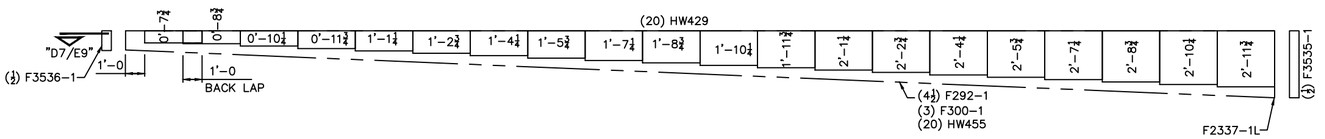


ELEVATION "EWB"

ALL G_'S ARE 8X2.5Z14 (TYP. U.NO.)

APPROXIMATE MEMBER WEIGHTS	
PART MARK	WEIGHT
CI6A	314
CU16A	21
CD7A	356
CD8A	365
CD9A	365
RE2AA	463
RE2AB	182

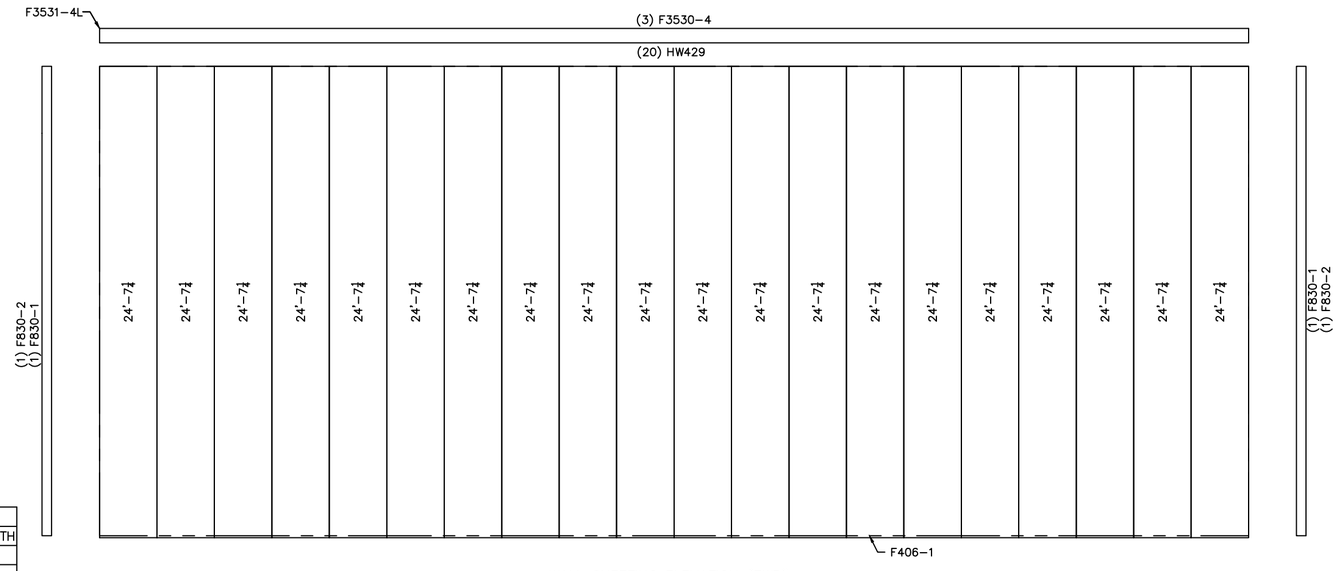
PBR BACK PANELS
PANEL COVERAGE = 3'-0
COLOR = GALVALUME PLUS
PANEL PKG. REQ'D. = PBS-5
Field Cut Panel and Trim as required per Construction Details



BACK PANEL SHEETING ELEVATION "EWB"

BLD'G "A"

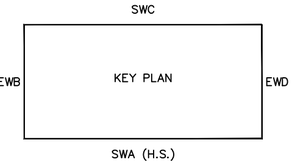
VIEWED FROM ELEVATION "EWD"



WALL SHEETING ELEVATION "EWB"

BLD'G "A"

PBR WALL PANELS
PANEL COVERAGE = 3'-0
COLOR = S200 ASH GRAY
PANEL PKG. REQ'D. = PBS-1
Field Cut Panel and Trim as required per Construction Details



ZEE SECTION LAP TABLE			
SYMBOL	LAP LENGTH	SYMBOL	LAP LENGTH
C	−0'−0¼"	T	2'−5¾"
S	0'−3¾"	V	3'−1¾"
R	1'−5¼"	REFER TO CF01122	

Revision	Date	Description	By	Ck'd

Cornerstone Building Brands
13105 Northwest Freeway, Suite 500
Houston, TX 77040
cornerstonebuildingbrands.com

Project Name & Location:
JM PHELPS CONSTRUCTION
300 SW WINDSWEPT GLN
LAKE CITY FL 32024-0694

Customer:
JM PHELPS CONSTRUCTION-
17760 BEACH PARK TRL
PANAMA CITY BEACH FL 324
JUSTIN PHELPS

Drawing Status:
☐ Issued For Approval (Not For Construction)
☐ Issued For Permit
☒ Issued For Construction

Scale: NOT TO SCALE
Drawn by: JMV 4/8/25
Checked by:
Project Engineer: JXV
Job Number: 19-B-90423-1
Sheet Number: E7 of 12

The engineer whose seal appears hereon is employed by or is contracted to provide engineering services for the manufacturer, Cornerstone Building Brands or one of its affiliates, 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.

KE HU, P.E.
FLORIDA P.E. 88271

KE HU LICENSE No. 88271 STATE OF FLORIDA PROFESSIONAL ENGINEER
May 06, 2025

This item has been electronically signed and sealed by Ke Hu, P.E. on the date and/or time stamp shown using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified by a 3rd Party Certificate Authority on any electronic copy.

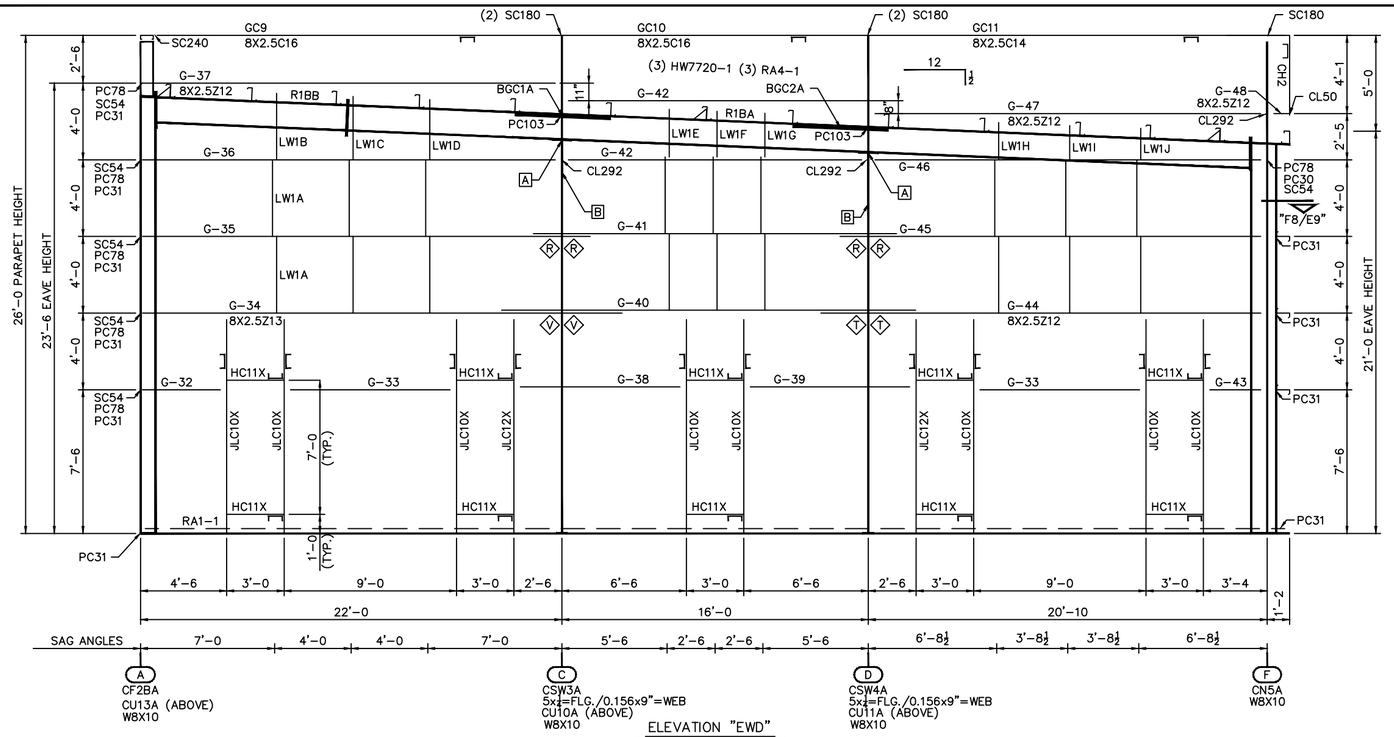
SPLICE BOLT TABLE				
CONN.	QTY. SIZE	TYPE	HARDENED WASHERS	BEVELED WASHERS
A	(4) ½ X 1¾	A325 B&N	4	0
B	(8) ½ X 1¾	A325 B&N	0	0

Non-Standard PBR Wall Panel Fasteners

#3A member fasteners are to be used for panel to secondary attachment in lieu of #17A shown on the R Drawings

#4 lap fasteners are to be used for panel to panel and panel to trim attachment in lieu of #4A shown on the R Drawings

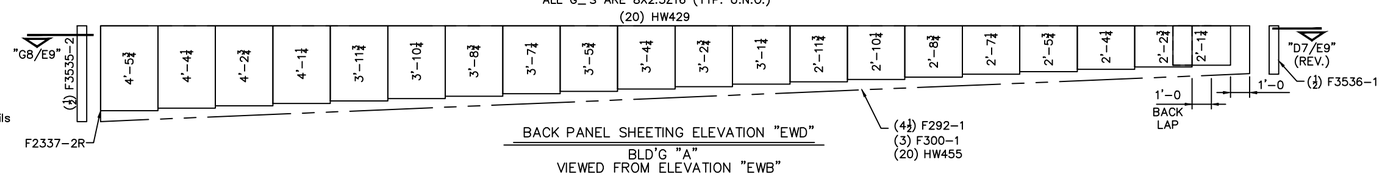
NOTE: GIRTS AND/OR WALL PANELS MAY REQUIRE FIELD CUTTING AT FRAMED OPENINGS, WALK DOORS, WINDOWS, LOUVERS, OPEN AREAS, AND/OR CONSTRUCTION (NOT BY STAR) AREAS.



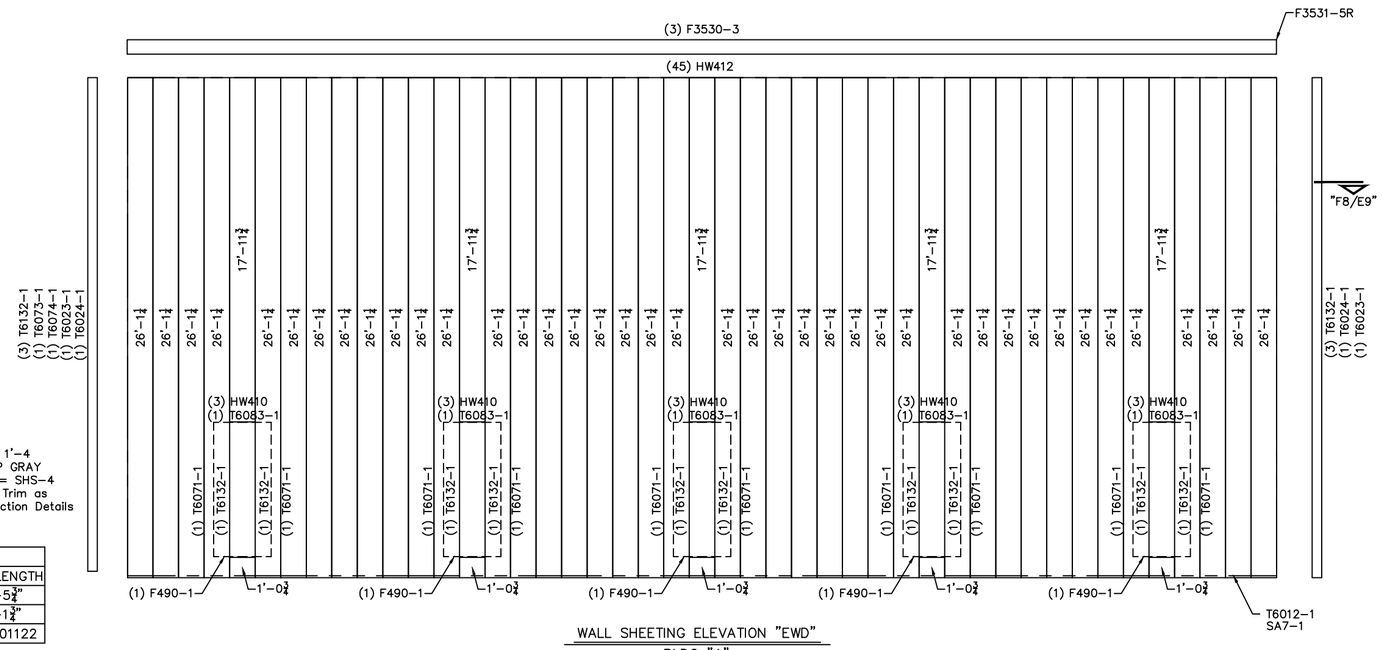
ELEVATION "EWD"

ALL HC_'S ARE 8X2.5C16 (TYP. U.N.O.)
ALL JLCX_'S ARE 8X2.5C16 (TYP. U.N.O.)
ALL G_'S ARE 8X2.5Z16 (TYP. U.N.O.)

PBR WALL PANELS
PANEL COVERAGE = 3'-0
COLOR = GALVALUME PLUS
PANEL PKG. REQ'D. = PBS-6
Field Cut Panel and Trim as required per Construction Details

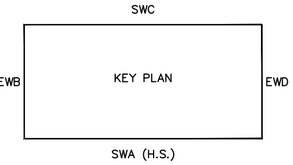


BACK PANEL SHEETING ELEVATION "EWD"
BLD'G "A"
VIEWED FROM ELEVATION "EWB"



WALL SHEETING ELEVATION "EWD"
BLDG "A"

SHR WALL PANELS
PANEL COVERAGE = 1'-4
COLOR = S200 DEEP GRAY
PANEL PKG. REQ'D. = SHS-4
Field Cut Panel and Trim as required per Construction Details



ZEE SECTION LAP TABLE			
SYMBOL	LAP LENGTH	SYMBOL	LAP LENGTH
C	−0'−0¼"	T	2'−5¾"
S	0'−3¾"	V	3'−1¾"
R	1'−5¾"	REFER TO CF01122	

APPROXIMATE MEMBER WEIGHTS	
PART MARK	WEIGHT
CSW3A	301
CU10A	86
CSW4A	292
CU11A	102
CN5A	283
C1B	416
CF2BA	444
CU13A	36
R1BA	894
R1BB	220

Revision	Date	By	Ck'd

Cornerstone Building Brands
13105 Northwest Freeway, Suite 500
Houston, TX 77040
cornerstonebuildingbrands.com

Project Name & Location:
JM PHELPS CONSTRUCTION
300 SW WINDSWEPT GLN
LAKE CITY FL 32024-0694

Customer:
JM PHELPS CONSTRUCTION-
17760 BEACH PARK TRL
PANAMA CITY BEACH FL 324
JUSTIN PHELPS

Issued For Construction
Issued For Approval (Not For Construction)
Issued For Permit
Drawing Status:

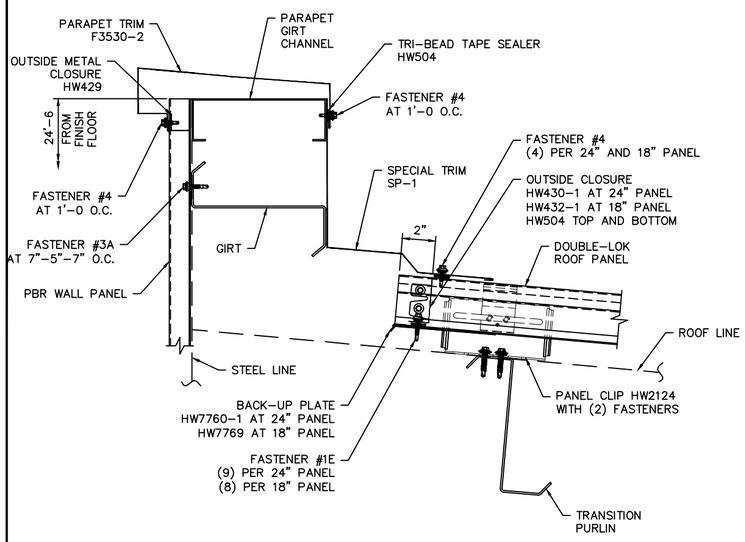
Scale: NOT TO SCALE
Drawn by: JMV 4/8/25
Checked by:
Project Engineer: JXV
Job Number: 19-B-90423-1
Sheet Number: E8 of 12

The engineer whose seal appears hereon is employed by or is contracted to provide engineering services for the manufacturer, Cornerstone Building Brands or one of its affiliates, 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.

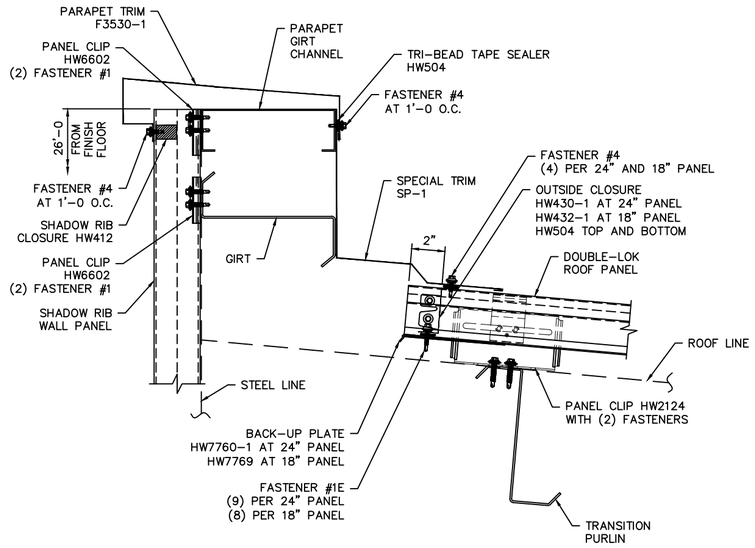
KE HU, P.E.
FLORIDA P.E. 88271

KE HU LICENSE No. 88271 STATE OF FLORIDA PROFESSIONAL ENGINEER
May 06, 2025

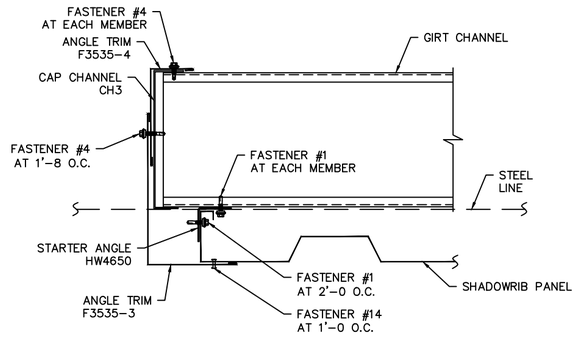
This item has been electronically signed and sealed by Ke Hu, P.E. on the date and/or time stamp shown using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified by a 3rd Party Certificate Authority on any electronic copy.



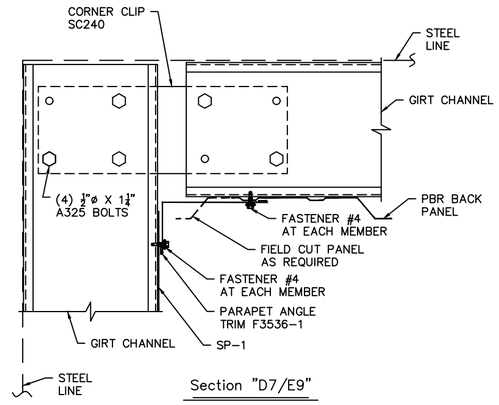
Section "A5/E9"



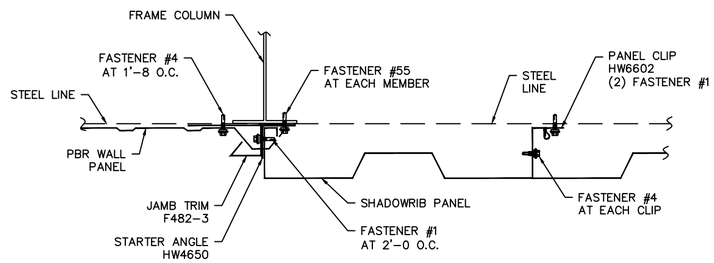
Section "B5/E9"



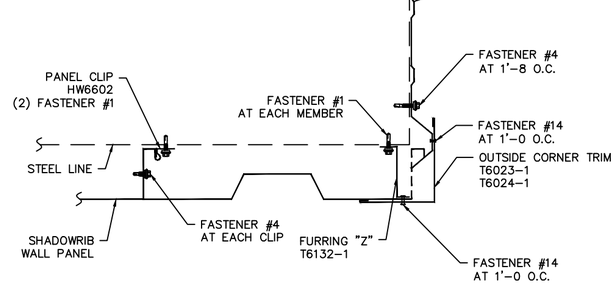
Section "C5/E9"



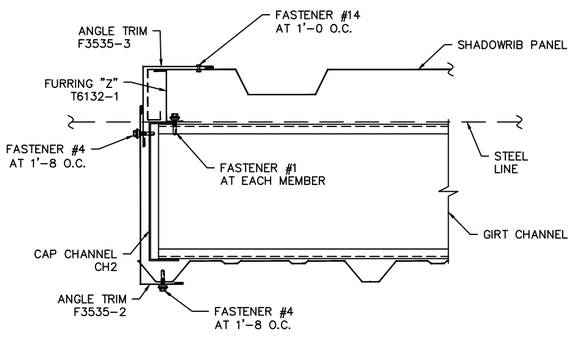
Section "D7/E9"



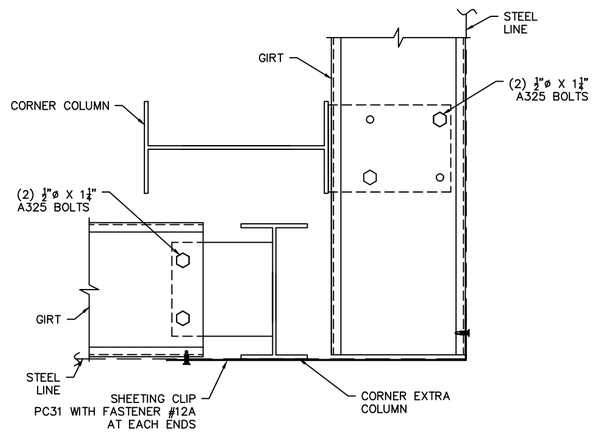
Section "E5/E9"



Section "F8/E9"



Section "G8/E9"



Section "F8/E9"

Revision	Date	Description	By	Ck'd

Cornerstone Building Brands
13105 Northwest Freeway, Suite 500
Houston, TX 77040
cornerstonebuildingbrands.com

Project Name & Location:
JM PHELPS CONSTRUCTION
300 SW WINDSWEPT GLN
LAKE CITY FL 32024-0694

Customer:
JM PHELPS CONSTRUCTION-
17760 BEACH PARK TRL
PANAMA CITY BEACH FL 324
JUSTIN PHELPS

Drawing Status:
☐ Issued For Approval (Not For Construction)
☐ Issued For Permit
☒ Issued For Construction

Scale:	NOT TO SCALE
Drawn by:	JMV 4/8/25
Checked by:	
Project Engineer:	JXV
Job Number:	19-B-90423-1
Sheet Number:	E9 of 12

The engineer whose seal appears hereon is employed by or is contracted to provide engineering services for the manufacturer, Cornerstone Building Brands or one of its affiliates, 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.

KE HU, P.E.
FLORIDA P.E. 88271

KE HU LICENSE No. 88271 STATE OF FLORIDA PROFESSIONAL ENGINEER
May 06, 2025

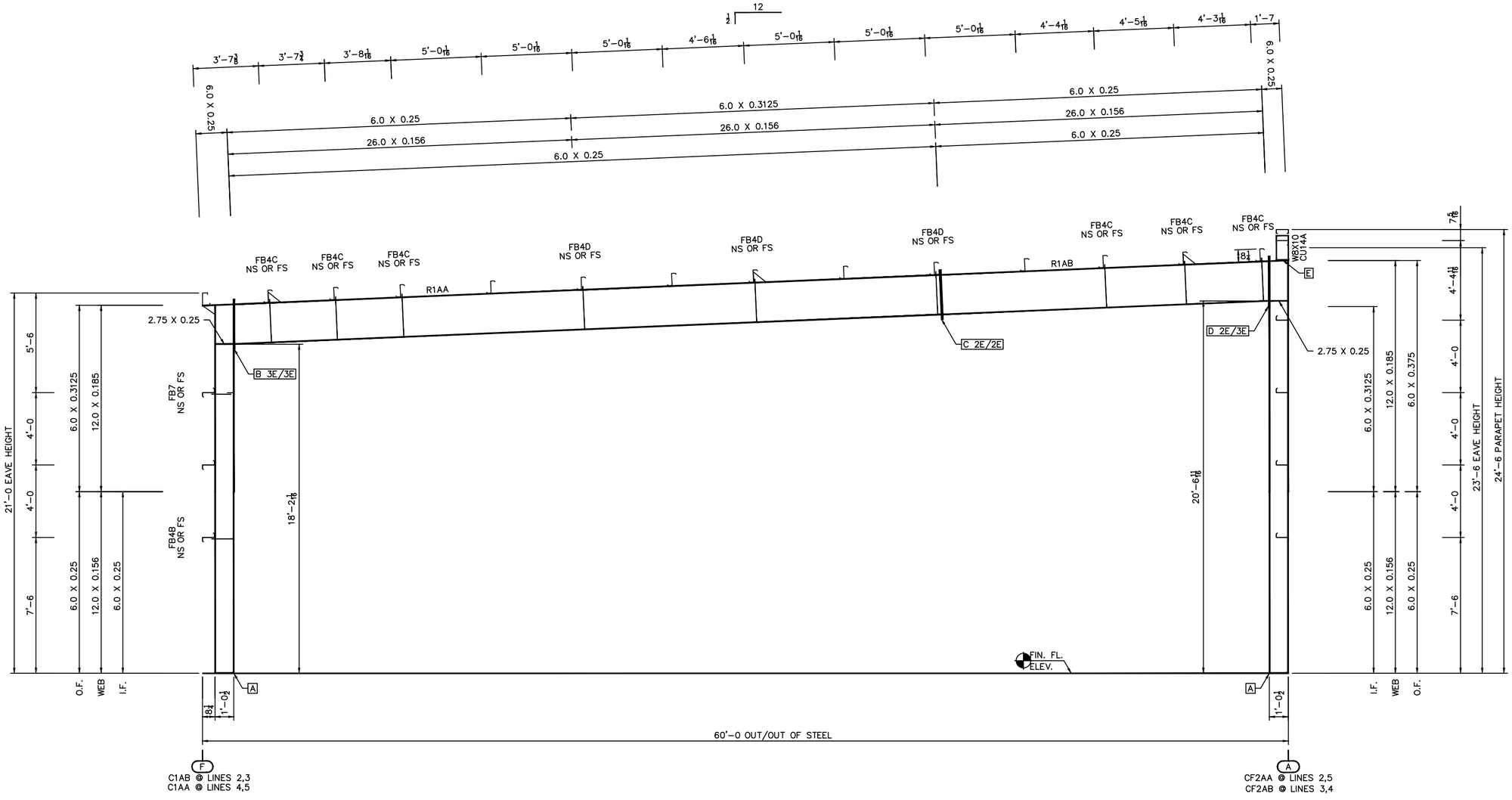
This item has been electronically signed and sealed by Ke Hu, P.E. on the date and/or time stamp shown using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified by a 3rd Party Certificate Authority on any electronic copy.

OY/PROJECTS\XDS-V8-21-12 FRAME = Eng/19-B-90423/ver01-john.valcheff/BLDG-A/Drftg/x01L 03/25/25 13:40:55
OY/PROJECTS\XDS-V8-21-12 FB SET = Eng/19-B-90423/ver01-john.valcheff/BLDG-A/DRFTG/x01L

GENERAL NOTES
FRAME CLEARANCES SHOWN ARE APPROXIMATE AND MAY VARY DUE TO CONDITIONS (DEFLECTION).

VERTICAL CLEARANCE DIMENSIONS ARE FROM FINISHED FLOOR REFERENCE ELEVATION.

APPROXIMATE MEMBER WEIGHTS	
PART MARK	WEIGHT
R1AA	1035
R1AB	493
CU14A	23
CU15A	41
CF2AA	482
C1AB	423
CF2AB	484
C1AA	426



CROSS SECTION AT FRAME LINES "2-5"

	PLATE SIZE TABLE		SPLICE BOLT TABLE			
CONN.	LOW SIDE	HIGH SIDE	QTY. SIZE	TYPE	HARDENED WASHERS	BEVELED WASHERS
A	6 X 0.375 X 1'-0 1/2					
B	6 X 0.375 X 10'-7 5/16	6 X 0.375 X 2'-8 11/16	(12) 3/4 X 1 3/4	A325 B&N	0	0
C	6 X 0.5 X 2'-8 9/16	6 X 0.5 X 2'-8 9/16	(8) 3/4 X 2 1/4	A325 B&N	0	0
D	6 X 0.375 X 2'-8 3/4	6 X 0.375 X 2'-9 1/4	(10) 3/4 X 1 3/4	A325 B&N	0	0
E	6 X 0.375 X 7 15/16		(4) 1/2 X 1 3/4	A325 B&N	0	0

Revision	Date	Description	By	Ck'd

Cornerstone Building Brands
13105 Northwest Freeway, Suite 500
Houston, TX 77040
cornerstonebuildingbrands.com

Project Name & Location:
JM PHELPS CONSTRUCTION
300 SW WINDSWEPT GLN
LAKE CITY FL 32024-0694

METAL LIC BUILDING SYSTEMS
Part of the Cornerstone Building Brands Family

Customer:
JM PHELPS CONSTRUCTION-
17760 BEACH PARK TRL
PANAMA CITY BEACH FL 324
JUSTIN PHELPS

Drawing Status:
☐ Issued For Approval (Not For Construction)
☐ Issued For Permit
☒ Issued For Construction

Scale: NOT TO SCALE
Drawn by: JMV 4/8/25
Checked by:
Project Engineer: JXV
Job Number: 19-B-90423-1
Sheet Number: E10 of 12

The engineer whose seal appears hereon is employed by or is contracted to provide engineering services for the manufacturer, Cornerstone Building Brands or one of its affiliates, 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.

KE HU, P.E.
FLORIDA P.E. 88271

KE HU
LICENSE
No. 88271
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
May 06, 2025

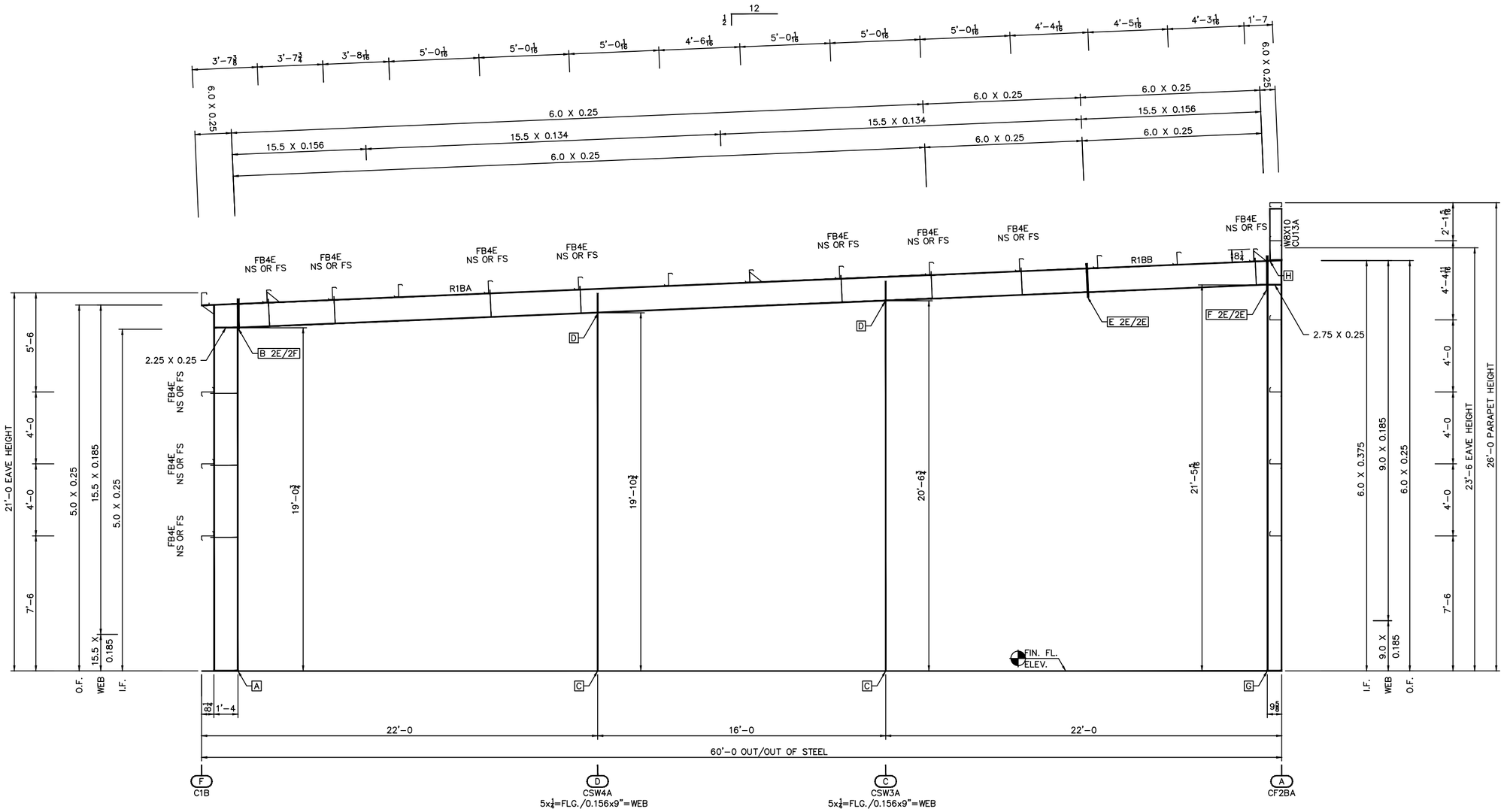
This item has been electronically signed and sealed by Ke Hu, P.E. on the date and/or time stamp shown using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified by a 3rd Party Certificate Authority on any electronic copy.

OY/PROJECTS\XDS-V8-21-12 FRAME = Eng/19-B-90423/ver01-john.valcheff/BLDG-A/Drftg/x02L 03/25/25 13:37:29
OY/PROJECTS\XDS-V8-21-12 FB SET = Eng/19-B-90423/ver01-john.valcheff/BLDG-A/DRFTG/x02L

GENERAL NOTES
FRAME CLEARANCES SHOWN ARE APPROXIMATE AND MAY VARY DUE TO CONDITIONS (DEFLECTION).

VERTICAL CLEARANCE DIMENSIONS ARE FROM FINISHED FLOOR REFERENCE ELEVATION.

APPROXIMATE MEMBER WEIGHTS	
PART MARK	WEIGHT
R1BA	894
R1BB	220
CU13A	36
CSW4A	292
CSW3A	301
CF2BA	444
C1B	416



CROSS SECTION AT FRAME LINE "6"

	PLATE SIZE TABLE		SPLICE BOLT TABLE			
CONN.	LOW SIDE	HIGH SIDE	QTY. SIZE	TYPE	HARDENED WASHERS	BEVELED WASHERS
A	6 X 0.375 X 1'-4					
B	6 X 0.5 X 1'-8 1/16	6 X 0.5 X 1'-7 8/16	(8) 3/4 X 2 1/4	A325 B&N	0	0
C	6 X 0.375 X 9 1/2					
D	10 X 0.375 X 0'-11 1/2		(4) 1/2 X 1 3/4	A325 B&N	4	0
E	6 X 0.375 X 1'-10	6 X 0.375 X 1'-10	(8) 3/4 X 1 3/4	A325 B&N	0	0
F	6 X 0.375 X 1'-10 1/4	6 X 0.375 X 23'-0	(8) 3/4 X 1 3/4	A325 B&N	0	0
G	6 X 0.375 X 9 8/16					
H	6 X 0.375 X 7 12/16		(4) 1/2 X 1 3/4	A325 B&N	0	0

Revision	Date	Description	By	Ck'd

Cornerstone Building Brands
13105 Northwest Freeway, Suite 500
Houston, TX 77040
cornerstonebuildingbrands.com

Project Name & Location:
JM PHELPS CONSTRUCTION
300 SW WINDSWEPT GLN
LAKE CITY FL 32024-0694

Customer:
JM PHELPS CONSTRUCTION-
17760 BEACH PARK TRL
PANAMA CITY BEACH FL 324
JUSTIN PHELPS

Drawing Status:
☐ Issued For Approval (Not For Construction)
☐ Issued For Permit
☒ Issued For Construction

Scale:	NOT TO SCALE
Drawn by:	JMV 4/8/25
Checked by:	
Project Engineer:	JXV
Job Number:	19-B-90423-1
Sheet Number:	E11 of 12

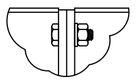
The engineer whose seal appears hereon is employed by or is contracted to provide engineering services for the manufacturer, Cornerstone Building Brands or one of its affiliates, for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.

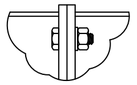
KE HU, P.E.
FLORIDA P.E. 88271

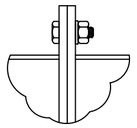
KE HU LICENSE No. 88271 STATE OF FLORIDA PROFESSIONAL ENGINEER
May 06, 2025

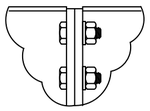
This item has been electronically signed and sealed by Ke Hu, P.E. on the date and/or time stamp shown using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified by a 3rd Party Certificate Authority on any electronic copy.

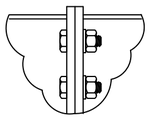
CONNECTION CODES
(FOR TOP AND BOTTOM BOLT PATTERN)

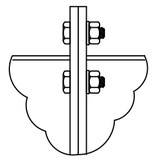

CONNECTION 1B, 1I OR 1P

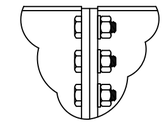

CONNECTION 1F

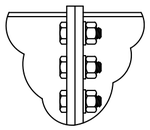

CONNECTION 1E

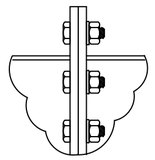

CONNECTION 2B, 2I OR 2P

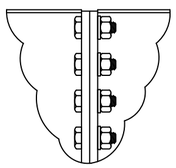

CONNECTION 2F

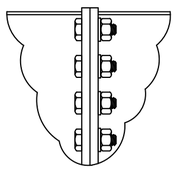

CONNECTION 2E

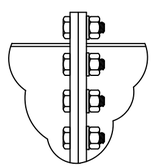

CONNECTION 3B, 3I OR 3P

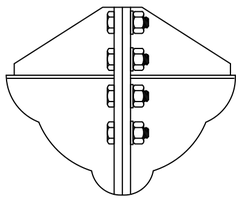

CONNECTION 3F


CONNECTION 3E


CONNECTION 4B, 4I OR 4P


CONNECTION 4F


CONNECTION 4E


CONNECTION 4X

4 E /2 E H
- CONNECTION DESIGNATION
- BLANK = STANDARD CONNECTION
  H = HEAVY CONNECTION
- BOTTOM CONNECTION CODE
- BOTTOM QUANTITY OF BOLT ROWS
- CONNECTION DESIGNATION
  BLANK = STANDARD CONNECTION
  H = HEAVY CONNECTION
- TOP CONNECTION CODE
- TOP QUANTITY OF BOLT ROWS

CONNECTION CODE FORMAT

CONNECTION CODE DESCRIPTION

B = THIS DESCRIPTION CODE IS USED TO DEFINE SHEAR CONNECTIONS. BOLTS ARE LOCATED INSIDE THE TOP FLANGE AND CONNECTION PLATE IS RECESSED 1/8" BELOW THE TOP FLANGE. CONNECTION PLATE LENGTH MUST BE A MINIMUM OF HALF THE RAFTER WEB DEPTH AND SHALL NOT EXCEED THE RAFTER TOTAL DEPTH.

E = THIS DESCRIPTION CODE IS USED TO DEFINE MOMENT CONNECTIONS. BOLTS ARE LOCATED WITH ONE SET OUTSIDE THE TOP OR BOTTOM FLANGE AND THE REMAINING SETS ARE LOCATED INSIDE THE TOP OR BOTTOM FLANGE.

F = THIS DESCRIPTION CODE IS USED TO DEFINE MOMENT CONNECTIONS. BOLTS ARE LOCATED INSIDE THE TOP OR BOTTOM FLANGE AND CONNECTION PLATE PROJECTS 1/2" BEYOND THE TOP OR BOTTOM FLANGE.

I = THIS DESCRIPTION CODE IS USED TO DEFINE MOMENT CONNECTIONS. BOLTS ARE LOCATED INSIDE THE TOP OR BOTTOM FLANGE AND CONNECTION PLATE IS RECESSED 1/8" BELOW THE TOP OR BOTTOM FLANGE.

P = THIS DESCRIPTION CODE IS USED TO DEFINE SHEAR CONNECTIONS. BOLTS ARE LOCATED INSIDE THE TOP FLANGE AND CONNECTION PLATE IS RECESSED 1/8" BELOW THE TOP FLANGE. CONNECTION PLATE LENGTH MUST BE A MINIMUM OF HALF THE RAFTER WEB DEPTH AND SHALL NOT EXCEED THE RAFTER TOTAL DEPTH.

4X = THIS DESCRIPTION CODE IS USED TO DEFINE MOMENT CONNECTIONS. BOLTS ARE LOCATED WITH TWO SETS EACH SIDE OF THE TOP OR BOTTOM FLANGE WITH A GUSSET PLATE OUTSIDE THE TOP AND BOTTOM FLANGE OR COLUMN CAP PLATE.

CONNECTION BOLT DATA

NAME	DESCRIPTION FOR A325 BOLT DIMENSIONS		A325 CONNECTION BOLT DIMENSIONS					
D	DIAMETER OF THE BOLT		1/2"	3/4"	7/8"	1"	1 1/4"	1 1/2"
HD	BOLT HOLE DIAMETER		9/16"	13/16"	15/16"	1 1/16"	1 5/16"	1 9/16"
G	BOLT GAUGE		2 1/2"	3"	4"	3 1/2"	4"	5 1/2"
	MAX. WEB THICKNESS (Max. 5/16" Fillet Weld) WITHOUT WASHER		1"	1 1/8"	1 7/8"	1 1/4"	1 3/8"	2 1/8"
	MAX. WEB THICKNESS (Max. 5/16" Fillet Weld) WITH WASHER		3/4"	7/8"	1 5/8"	7/8"	7/8"	1 7/8"
HG	HEAVY CONN. BOLT GAUGE		N/A	2 1/4"	2 5/8"	3"	3 3/4"	4"
S	NORMAL BOLT SPACING		2 1/2"	3"	3 1/4"	3 1/2"	4"	4 1/2"
BSMIN	MINIMUM SPACING BETWEEN TOP & BOTTOM SETS OF BOLTS		1 1/2"	2 1/4"	2 5/8"	3"	3 3/4"	4"
BSMAX	MAXIMUM BOLT SPACING BETWEEN TOP AND BOTTOM SETS OF BOLTS ON CONNECTION PLATES		2'-0"	2'-0"	2'-0"	2'-0"	2'-0"	2'-0"
	SPLICE BOLT SPACING (NOT TO EXCEED 2'-0)		1/2 BSMAX (±1/16") WHEN BSMAX = 2'-0 1/16" TO 4'-0 1/3 BSMAX (±1/16") WHEN BSMAX = 4'-0 1/16" TO 6'-0 1/4 BSMAX (±1/16") WHEN BSMAX = 6'-0 1/16" TO 8'-0					
BFCD	MINIMUM BOLT-TO-FLANGE CLEARANCE AT OUT OF NUT SEE BOLT AT FLANGE DETAIL		1 1/2"	1 3/4"	1 7/8"	2 1/4"	2 1/2"	2 3/4"
PF	MINIMUM BOLT-TO-FLANGE CLEARANCE AT CONNECTION PLATE SEE BOLT AT FLANGE DETAIL		(BFCD + RNWT) PF INSIDE OF FLANGE IS INCREASED BASED ON THE YT & YB VALUE. PF FOR CONNECTION B, F, I AND P ARE THE SAME AS USED ON CONNECTION E					
NWT	NUT AND WASHER THICKNESS		SEE BOLT AT FLANGE DETAIL. NUT THICKNESS IS EQUAL TO THE BOLT DIAMETER AND .15625" WASHER THICKNESS IS USED EVEN IF A WASHER IS NOT REQUIRED.					
RNWT	RISE ON NUT AND WASHER THICKNESS							
TT	THICKNESS TOP FLANGE		REFER TO FRAME CROSS SECTION DRAWING FOR LARGEST FLANGE THICKNESS EITHER SIDE OF THE CONNECTION.					
TB	THICKNESS BOTTOM FLANGE							
YT	BOLT SPACING TOP (ROUND UP TO NEXT 1/2", MIN = S)		3" + TT	3 1/2" + TT	3 3/4" + TT	4 1/2" + TT	5" + TT	5 1/2" + TT
YB	BOLT SPACING BOTTOM (ROUND UP TO NEXT 1/2", MIN = S)		or TB Sloped	or TB Sloped	or TB Sloped	or TB Sloped	or TB Sloped	or TB Sloped
EED(E)	MINIMUM END EDGE DIMENSION		1 1/4"	1 1/4"	1 1/2"	1 3/4"	2 1/4"	2 5/8"
EED(S)	MINIMUM SIDE EDGE DIMENSION		3/4"	1"	1 1/8"	1 1/4"	1 5/8"	2 1/4"
EEDK	END EDGE DIMENSION AT KNEE CONNECTION		1 3/8"	1 3/8"	1 5/8"	1 7/8"	2 3/8"	2 3/4"
BCWM	MINIMUM BOLT CLEARANCE FROM A FLANGE OR WEB WELD	WITHOUT WASHER	7/16"	5/8"	3/4"	13/16"	1"	1 3/8"
		WITH HARDENED WASHER	9/16"	3/4"	7/8"	1"	1 1/4"	1 1/2"
WCSM	MINIMUM WIDTH OF CONNECTION PLATE (Standard Connection)		5"	6"	8"	8"	10"	12"
WCHM	MINIMUM WIDTH OF CONNECTION PLATE (Heavy Connection)		N/A	10"	12"	12"	16"	18"
TCMIN	MINIMUM THICKNESS OF CONNECTION PLATE		1/4"	3/8"	7/16"	1/2"	5/8"	1"

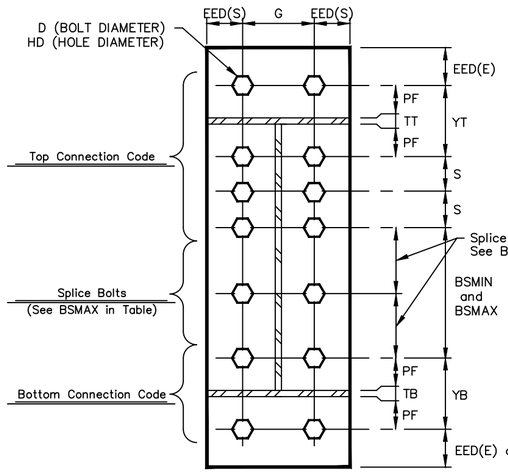
Frame Documentation
A325 Connection Bolt Details

Page 05-12-10
Date Mar '24 Rev. 06

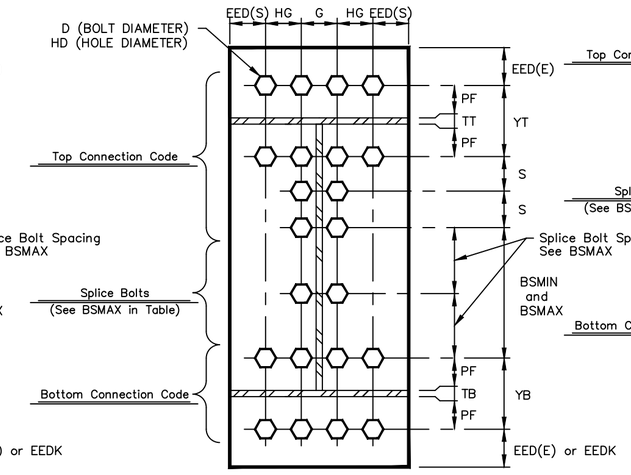
B 4E/2EH
- Connection Code (See "Connection Code Format" on this drawing)
- Connection Location

CROSS SECTION CONNECTION CODE KEY
(AS SHOWN AT CONNECTIONS ON FRAME CROSS SECTION DRAWINGS)

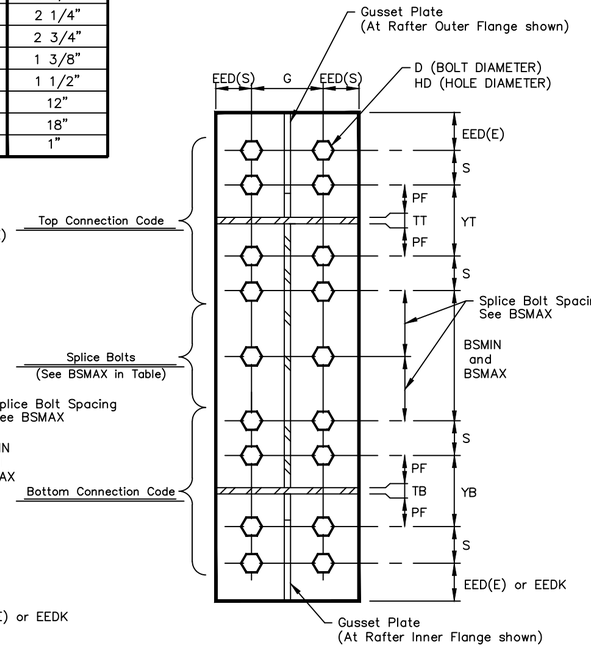
Flange Brace Material Schedule	
Part Mark	Material
FB4_	L 2" x 2" x 14 Ga.
FB5_	L 2" x 2" x 14 Ga.
FB6_	L 2" x 2" x 1/8"
FB7_	L 2 1/2" x 2 1/2" x 3/16"



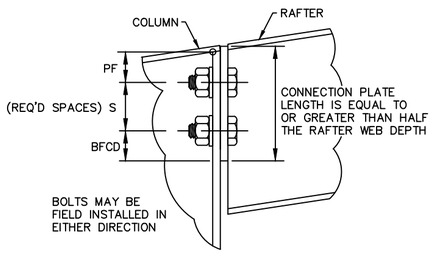
STANDARD CONNECTION DESIGNATION
(CODE 4E/2E SHOWN)



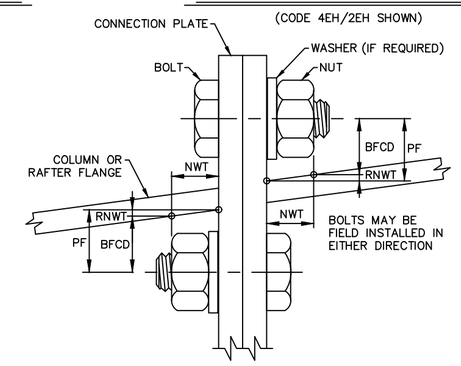
HEAVY CONNECTION DESIGNATION
(CODE 4EH/2EH SHOWN)



4X CONNECTION DESIGNATION
(CODE 4X/4X SHOWN)



CONNECTION B & P
(Low Side Shown, High Side Similar)



BOLT AT FLANGE DETAIL
(Top Flange Shown, Bottom Flange Similar)

Cornerstone Building Brands
13105 Northwest Freeway, Suite 500
Houston, TX 77040
cornerstonebuildingbrands.com

Project Name & Location:
JM PHELPS CONSTRUCTION
300 SW WINDSWEPT GLN
LAKE CITY FL 32024-0694

Customer:
JM PHELPS CONSTRUCTION-
17760 BEACH PARK TRL 324
PANAMA CITY BEACH FL
JUSTIN PHELPS

Drawing Status:
☐ Issued For Approval (Not For Construction)
☐ Issued For Permit
☒ Issued For Construction

Revision	Date	Description	By	Ck'd

Scale: NOT TO SCALE
Drawn by: JMV 4/8/25
Checked by:
Project Engineer: JXV
Job Number: 19-B-90423-1
Sheet Number: E12 of 12

KE HU, P.E.
FLORIDA P.E. 88271

KE HU
LICENSE
No. 88271
STATE OF FLORIDA
PROFESSIONAL ENGINEER
May 06, 2025

Field Service Procedures

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

1. Carefully Check Your Packing List While Unloading.
2. Mark 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, Including Estimated Man-Hours.
3. Materials To Be Purchased From Other Than the Manufacturer, Including Estimated Quantities and Cost.
4. 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 Material Quantities Received Are Correct According To The Quantities Billed 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, Claim Is To Be Made To The Manufacturer.

DAMAGED OR DEFECTIVE MATERIAL:
Damaged Or Defective Material, 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 Become Wet And/Or Damaged By Water While In The Possession Of Others. Packaged Or Nested Material That Become Wet In Transit Must Be Unpacked, Unstacked And Dried By The Customer. If The Carrier Is The Manufacturer, The Customer Must Make Claim For Damaged Directly To The Manufacturer. If The Carrier Is A Common Carrier, The Customer Must Make The Claim For Damage To The Common Carrier. The Manufacturer Is Not Liable For Any Claim Whatsoever Including, But Not Limited To Labor Charges Of Consequential Damages 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 Those Required By The Order Documents.

OIL CANNING IS NOT A CAUSE FOR REJECTION

Authorization For Corrective Work

Normal Erection Operations Include The Correction Of Minor Misfits 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 Foregoing 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 303-10, 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 Dated 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 Paid Invoices.
5. Total Actual Direct Cost Of Corrective Work (Sum Of 1, 2, 3, And 4). The "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.

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.

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

REMEMBER SAFETY FIRST:
Blocking Under Columns And Rafters Protect The Splice Plates And The Slab From Damage During The Unloading Process. It Also Facilitates The Placing 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 Always 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, Purlins, Etc., The Pigment Will Fade And The Paint 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 Rafters For Same 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.

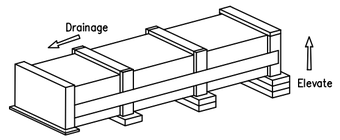
Roof And Wall Panels

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

UNDER NO CIRCUMSTANCES SHOULD PANELS BE HANDLED ROUGHLY
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 People From Walking On The Packages. One End Of The Package Should Be Elevated To Encourage Drainage In Case Of Rain. 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 Become 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. See R1-07 Titled "Damage From Condensation Or Trapped Water".

CAUTION:
Care Should Always Be Taken When Walking On Panels. Use Safety Lines And Net When Necessary. Panels Are Slippery, Wipe Dry Any Moisture Or Surface Material That Has Puddle From Bundles Stored On A Slope. Dew, Frost, Or Other Forms Of Moisture Greatly Increase The Slipperiness Of The Panels. Always Assume Panel Surface Is Slippery And Act Accordingly. Never Walk Of Step On Skylights Or Translucent 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 Uncrating The Panels, Lift Rather Than Slide Them Apart. Burred Edges May Scratch The Coated Surfaces When Sheets Are Slid Over One Another. Never Allow Panels To Be Walked On While On The Ground.



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 Faulty 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 Dioxides) 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 Drill Shavings From The Installation Of Panel Fasteners And Fillings From The Saw Cutting Of Panels Be Removed From The Panel Surface. Corrosion Can Occur In A Matter Of Hours When These Shavings Or Fillings Are Not Removed And Are In Contact With Water Or Condensed Moisture. When Panels Are Pre-Drilled Or Cut In The Stack Prior To Erection All Shavings 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 Certainly At Job Completion. The Final Cleaning Of The Roof Should Be Done Prior To Installing The Gutter So That The Shavings 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 Erection Of The Roof And The Installation Of Such Equipment As Air Condition Units, Etc..

Personnel Walking On The Panel Can Cause Damage. Workmen 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 Straighten 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 Lime 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-Painted 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.

Types Of Finishes

SHOP PRIMED 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 Primed Steel Which Is Stored In The Field Pending Erection Should Be Kept Free Of The Ground And So Positioned As To Minimize Water Holding 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, Loading, Shipping, Unloading And Erection After Painting Or Galvanizing Are Unavoidable. (MBMA 2012, Chapter IV 4.2.4).

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 Balanced 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.

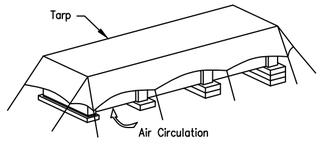
Pre-Painted:
Using Galvalume Steel As A Substrate, Pre-Painted Steel Is Given An Additional Rust Inhibitor Primer Coat. This Primer Coat Further Increases The Corrosion Resistance. These Coatings Are Applied To The Exterior Surface Of The Panels And A Wash Coat Designed Only For Interior Use, Is Applied On The Opposite Side. Galvalume And Pre-Painted 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 Subject To Damage And Corrosion When Care Is Not Provided.

PAINT AND COATING MAINTENANCE:
Remove Smudge Marks 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 Smudge Marks. 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 Artist's Brush, Lightly Apply A Minimal Amount Of Color Matched Touch-Up Pain Required To Fill/Cover The Scratch. Contact The Building Manufacturer For Assistance With Ordering/Purchasing Touch-Up Paint As Needed.

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 Sea Coast 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 Evaporating 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 Paint Film Can Occur With Pre-Painted 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 Since They Lack The Additional Protection Of Paint. Zinc Coated 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.

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 Standard Statuary Or Customary, 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 Paint And/Or Galvalume Coatings. Also Be Careful Around Pipes And Flashing's.
Be Extremely Careful If Your Roof Has Light Transmitting Panels. These Panels Will Not Support A Person's Weight And Will Be Difficult Or Impossible To See If They Are Covered With Ice Or Snow. See MBMA Low-Rise Building Systems Manual, Appendix A8 For Details On Snow Removal Procedures. These Procedures Should Commence When Half Of The Design Roof Snow Load Is Realized.

DEBRIS REMOVAL:
Any Foreign Debris 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 Rectified In A Manner Consistent With These Roof Maintenance Guidelines. Never Allow Treated Lumber Or Concrete/Mortar/Grout To Come In Contact With Roof Panels, Especially Galvalume For Extended Periods Of Time.

PERIODIC INSPECTION:
All High-Strength Shall 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 Gutter 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 Evaporative Coolers To Drain Onto The Roof.
4. Anything That Traps Or Holds Moisture On A Roof Will Cause Premature Corrosion.

Roof Maintenance Guidelines

1. Inspect Roof For Damage After Heavy Storms.

2. Inspect And Reseal As Necessary All Roof Curbs And Other Penetrations With Urethane Sealant.

3. Always Get Manufacturer Approval Before Making Any Modifications To The Roof.

4. Repaint Any Areas That Are Susceptible To Rust As Required.

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

6. 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 Paint Or Galvalume Coating, Excessive Foot Traffic And Punctures. Make Sure That All Debris Or Scrap Left Behind By Workers Is Removed From The Roof Immediately. Avoid Using Cutoff 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 Ponding On Low Pitched Roofs. This Is Particularly True Just Upslope From The Eave And At Endlaps.
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 Properly 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.

DISSIMILAR 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 Graphite, This Includes Copper And Arsenic Salts Used In Treated Lumber, Calcium Used In Concrete, Mortar And Grout.

Never Step On Light Transmitting Panels (LTP's) Or Unattended Roof Panels

Panels May Collapse
If Not Properly Secured

Roof Panels Must Be Completely Attached To The Purlins And To Panels On Either Side Before They Can Be A Safe Walking Surface. Light Transmitting Panels LTP's) Translucent Panels Can Never Be Considered As A Walking Surface.

Partially Attached Or Unattached Panels Should Never Be Walked On!

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!

Revision	Date	By	Ck'd

Description

Cornerstone Building Brands
13105 Northwest Freeway, Suite 500
Houston, TX 77040
cornerstonebuildingbrands.com

Project Name & Location:
JM PHELPS CONSTRUCTION
300 SW WINDSWEPT GLN
LAKE CITY FL 32024-0694

METALLIC BUILDING SYSTEMS — Part of the Cornerstone Building Brands Family

Customer:
JM PHELPS CONSTRUCTION-
17760 BEACH PARK TRL
PANAMA CITY BEACH FL 324
JUSTIN PHELPS

Drawing Status:
☐ Issued For Approval (Not For Construction)
☐ Issued For Permit
☒ Issued For Construction

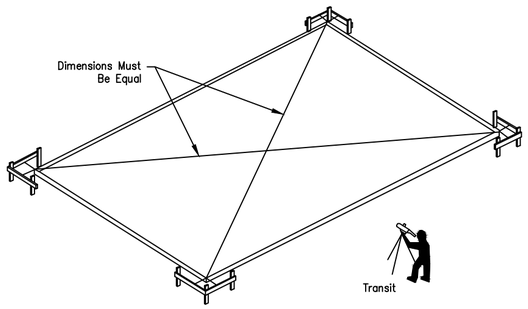
Scale: NOT TO SCALE
Drawn by:
Checked by:
Project Engineer:
Job Number: 19-B-90423-1
Sheet Number: R1 of 23

KE HU, P.E.
FLORIDA P.E. 88271

KE HU
LICENSE
No. 88271
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
May 06, 2025

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.

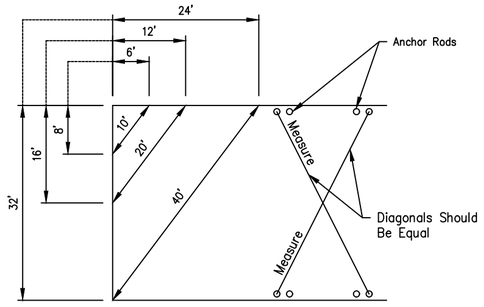


Pre-Erection Notes:

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

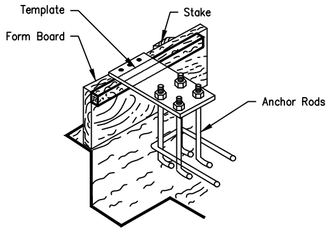
1.) Prior To The Time The Erection Crew Arrives, A Responsible Person Should Check The Job Site For Foundation Readiness, Square, And Accuracy And Anchor Rod Size And Location.

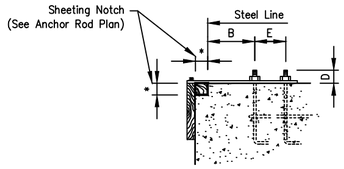
The Drawing Shown Below Indicates A Method Which May Be Used To Check The Foundation And Bolts For Square.



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.

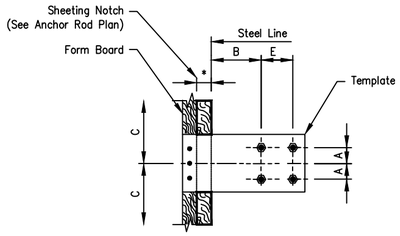
It Is Extremely Important That Anchor Rods Are Placed Accurately And In Accordance With The Anchor Rod Setting Plan. All Anchor Rods Should Be Held In Place With A Template Or Similar Means, So That They Will Remain Plumb And In Correct Location During The Placement Of The Concrete. A Final Check Should 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.





Sheeting Notch Shown But May Not Be Required (See Anchor Rod Plan)

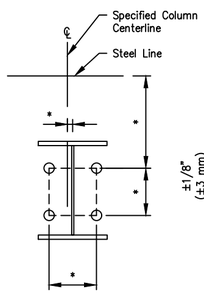
Projection Of Anchor Rods (D) Given On Anchor Rod Plan



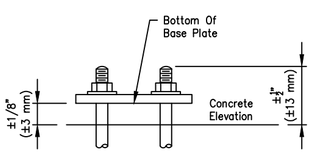
Dimensions A, B, And C Given On Anchor Rod Plan

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

Anchor Rod Diameter, Inches (mm)	*Horizontal Variation, Inches (mm)
¾" and ⅞" (19 And 22 mm)	¼" (6 mm)
1", 1¼", 1½" (25, 31, 38 mm)	⅜" (10 mm)
1¾", 2", 2½" (44, 50, 63 mm)	½" (13 mm)



ANCHOR ROD SETTING TOLERANCES



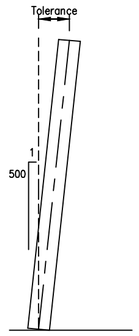
BASE PLATE AND ANCHOR ROD TOLERANCES

* Horizontal Variations Vary Depending On Anchor Rod Diameter. See Above

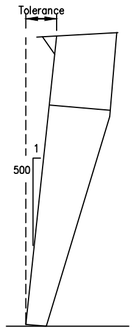
Erection Tolerances

ERECTION 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/AISC 303, Code Of Standard Practice For Steel Building And Bridges).

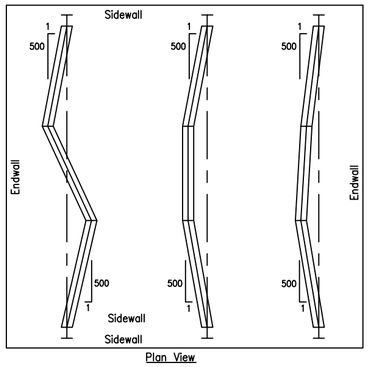
COLUMN ALIGNMENT TOLERANCES



Height	Tolerance (±) H/500
10'	1/4"
12'	5/16"
15'	3/8"
20'	1/2"
25'	5/8"
30'	3/4"
45'	1 1/16"
60'	1 7/16"

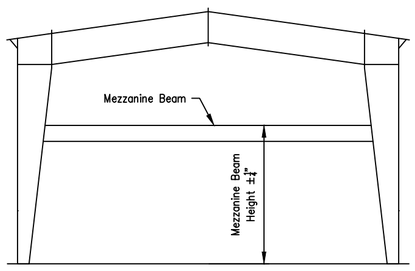


ALIGNMENT TOLERANCE FOR MEMBERS WITH FIELD SPLICES



Plan View

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

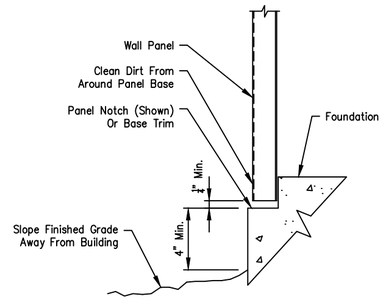
To Minimize Potential Of Corrosive Action At The Bottom Edge Of Wall Panels, The Contractor Must Assure That The Following Procedures Are Followed:

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 Cleaned 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. Drive The Fastener In Until It Is Tight And The Washer Is Firmly Seated. Do Not Overdrive Fasteners.
A Slight Extrusion Of Neoprene 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. Discard Worn 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.

Correct Compression Of Sealing Washer

Too Tight Compression Of Sealing Washer

Too Loose Compression Of Sealing Washer

Tape And Tube Sealant

Proper Tape And Tube Sealant Application Is Critical To The Weather Tightness Of A Building. Tape Sealant Should Not Be Stretched When Installed. Apply Only To Clean, Dry Surfaces. Keep Only Enough 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 60°) 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.

Revision	Date	Description	By	Ck'd

Cornerstone Building Brands
13105 Northwest Freeway, Suite 500
Houston, TX 77040
cornerstonebuildingbrands.com

Project Name & Location:
JM PHELPS CONSTRUCTION
300 SW WINDSWEPT GLN
LAKE CITY FL 32024-0694

Customer:
JM PHELPS CONSTRUCTION-
17760 BEACH PARK TRL
PANAMA CITY BEACH FL 324
JUSTIN PHELPS

☒ Issued For Construction
☐ Issued For Permit
☐ Issued For Approval (Not For Construction)
Drawing Status:

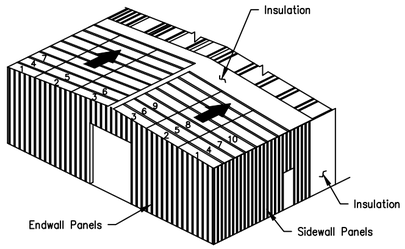
Scale: NOT TO SCALE
Drawn by:
Checked by:
Project Engineer:
Job Number: 19-B-90423-1
Sheet Number: R2 of 23

KE HU, P.E.
FLORIDA P.E. 88271

KE HU LICENSE No. 88271 STATE OF FLORIDA PROFESSIONAL ENGINEER
May 06, 2025

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 Ribs Can Be Kept In Proper Alignment For The Ridge Panel. This Is Critical On The PBR Panels So That The Ridge Caps Can Be Properly Installed. Check For Proper Coverage As The Sheeting Progresses.



Install The First Run Of Roof Panels Across The Building From Eave To Eave Or Eave To Ridge. To Allow Proper Installation Of The Rake Trim, The Starting Location For The First Panel Must Be As Shown In The Rake Details Included With The Erection Drawings. When The First Run Is Properly Located And Aligned With The Correct Endlaps And Eave Overhangs, Fasten To Purlins. Roof Panels Should Be Installed So That The Sidelap 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, Sealant 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 Rake Trim. Refer To Rake Details Included With The Erection Drawings. DO NOT BACK LAP THROUGH FASTENED ROOF 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.

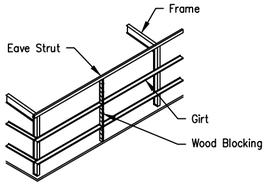
Wall Panels

Proper Horizontal And Vertical Alignment Of Supporting Structure (Girts Or Other Framing) Is The Responsibility Of The Installer. Failure To Align The Secondary members Properly Prior To Wall Installation Can Have A Direct Impact On The Final Appearance And Performance Of The Installed Wall System For Which The Metal Building Manufacturer Is Not Responsible.

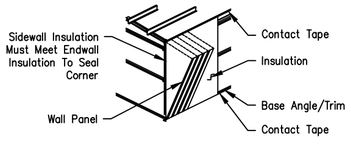
Before Installing Wall Panels, The Girts Must Be Aligned To A Level Position So That There Is No Visible Sag. This Should Be Done Directly Ahead Of Panel Installation.

Girt Leveling May Be Accomplished By Standing A Section Of Gable 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 Spaces 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.



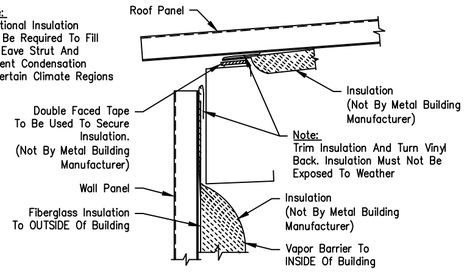
Note:
Wall Panel Type And Installation Details Will Vary. Refer To The Erection Drawings And Details For The Specific Panel Used For Your Building.



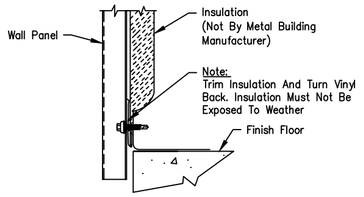
If Walls Are To Be Insulated With Blanket Insulation Over Girt Girt Flanges, Base And Eave, Place A Continuous Run Of Contact Tape Along The Eave Strut And Base Member.

Note:
At The Base, Cut Off The Insulation A Minimum Of $\frac{1}{2}$" 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



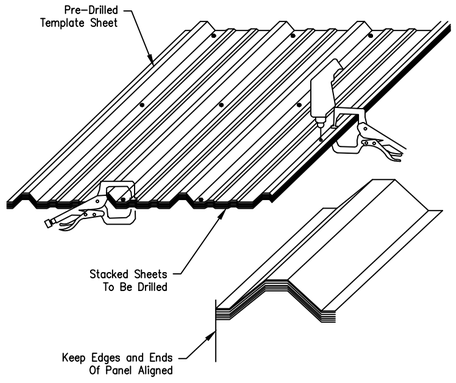
Eave Detail
(See Erection Drawings)



Base Detail
(See Erection Drawings)

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

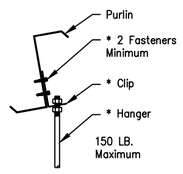
Note:
Check Periodically To Ensure That All Panels Are Aligned And Plumb.



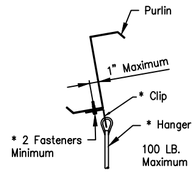
Screw Alignment Panel
(Through Fastened Panel Only)

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.

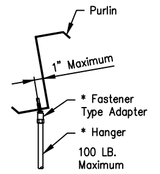
Suggested Method Of Purlin Attachment For Building Accessories



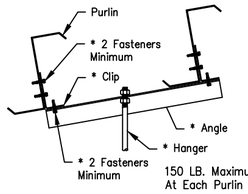
Clip Connection To Purlin Web



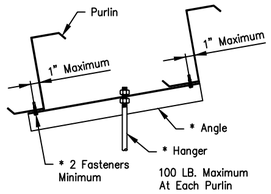
Clip Connection To Purlin Flange



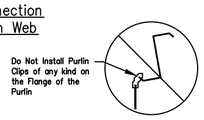
Fastener Type Adapter To Purlin Flange



Clip Connection To Purlin Web



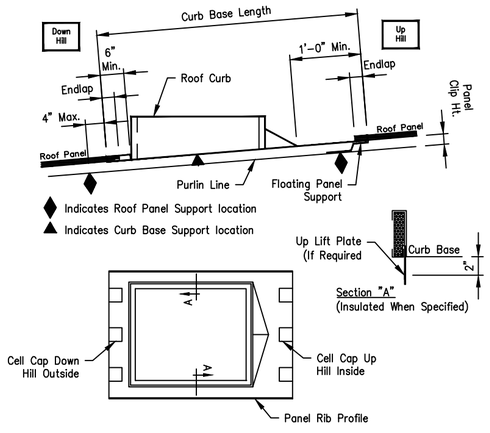
Angle Connection To Purlin Flange



* Denotes Material Not Provided By Metal Building Manufacturer.

The Total Hanger Load Shall Not Exceed The Design Collateral Load For The Building. Example:
5'-0 (Purlin Spacing) X 5'-0 (Hanger Spacing) X 6 PSF (collateral Load) = 150 Lbs.
See Cover Sheet For Design Collateral Load For This Building.
Note: If The Building Is Designed For 0 PSF Collateral 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



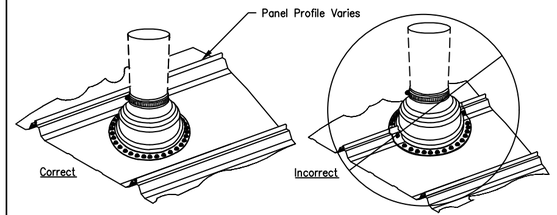
The Curb Details Shown Illustrate The Building Manufacturers Recommended Curb Style And Installation Method. It Is The Erector/Installer's Responsibility To Provide The Proper Curb Style And Install Them In Accordance With The Procedures Established By These Details. Failure By The Erector/Installer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

All 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.

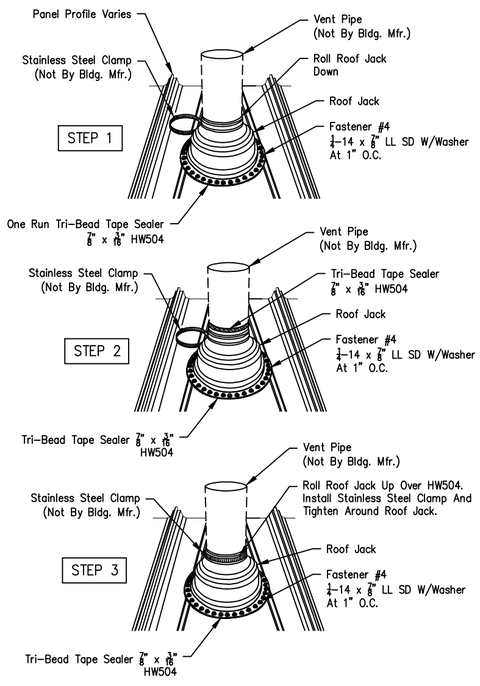
Roof Jack Installation when Not Supplied By Building Manufacturer

General Installation Notes

- Do Not Use Galvanized 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.
- Use EPDM Rubber Roof Jacks With An Integral Aluminum Band Bonded Into The Perimeter Of The Base. EPDM Roof Jacks Have A Temperature Range From −65°F To 212°F. Use Silicone Roof Jacks For High Temperatures. Silicone Roof Jacks Have A Temperature Range Of −100°F To 437°F.
- 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.
- 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 $\frac{3}{4}$ – 14 X $\frac{3}{4}$" LL SD W/washer At 1" O.C. Around The Base Of The Roof Jack. See Table Below For Quantities.
- Trim The Top Of The Roof Jack To Fit Over The Pipe, Roll Down 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.
- 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.
- 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.



Revision	Date	Description	By	Ck'd

Cornerstone Building Brands
13105 Northwest Freeway, Suite 500
Houston, TX 77040
cornerstonebuildingbrands.com

Project Name & Location:
JM PHELPS CONSTRUCTION
300 SW WINDSWEPT GLN
LAKE CITY FL 32024-0694

METAL J.C BUILDING SYSTEMS
Part of the Cornerstone Building Brands Family

Customer:
JM PHELPS CONSTRUCTION-
17760 BEACH PARK TRL
PANAMA CITY BEACH FL 324
JUSTIN PHELPS

Drawing Status:
☐ Issued For Approval (Not For Construction)
☐ Issued For Permit
☒ Issued For Construction

Scale: NOT TO SCALE
Drawn by:
Checked by:
Project Engineer:
Job Number: 19-B-90423-1
Sheet Number: R3 of 23

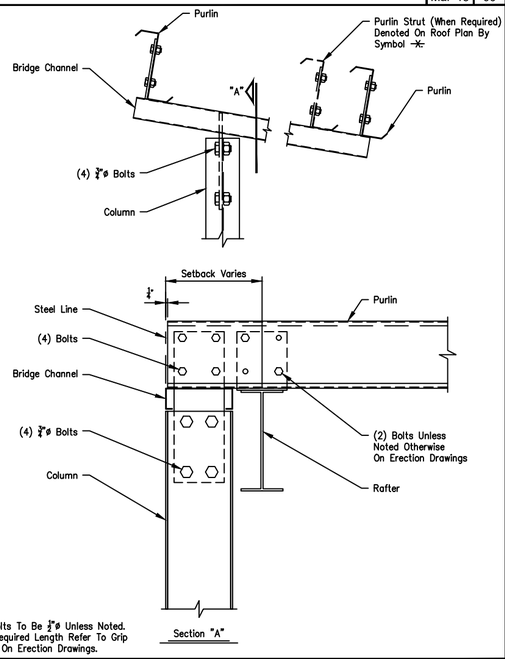
The engineer whose seal appears hereon is employed by or is contracted to provide engineering services for the manufacturer, Cornerstone Building Brands or one of its affiliates, for the materials described herein. Said seal or certification is limited to the products designed and manufactured by manufacturer only. The undersigned engineer is not the overall engineer of record for this project.

KE HU, P.E.
FLORIDA P.E. 88271

This item has been electronically signed and sealed by Ke Hu, P.E. on the date and/or time stamp shown using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified by a 3rd Party Certificate Authority on any electronic copy.

Rigid Frame Endwall - Non-Load Bearing Column to Bridge Channel Between Purlins - Flush

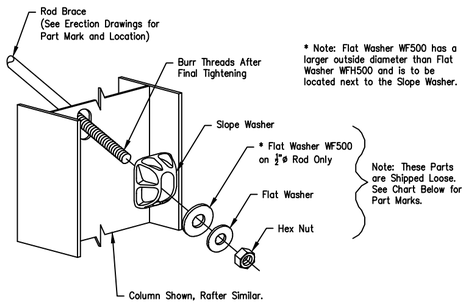
Page EF08131 | Date Mar '15 | Rev 00



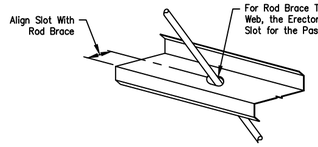
All Bolts To Be ¾"ø Unless Noted. For Required Length Refer To Grip Table On Erection Drawings.

Rod Brace Attachment at Web

Page PF04101 | Date May '17 | Rev 03



* Note: Flat Washer WF500 has a larger outside diameter than Flat Washer WFH500 and is to be located next to the Slope Washer.

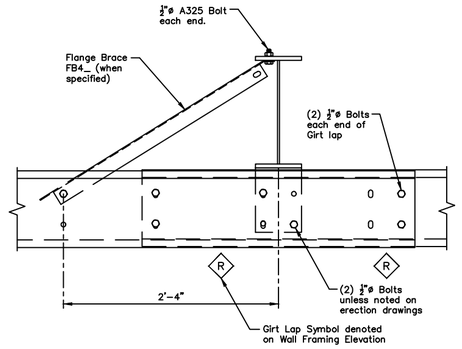


Part Marks for Rod Brace Assembly					
Rod Brace Diameter	Rod Brace	Slope Washer	* Flat Washer	Flat Washer	Hex Nut
½"ø	WR08___	WS110	* WF500	WFH500	HSN500
⅝"ø	WR10___	WS110	None	WFH625	HSN625
¾"ø	WR12___	WS120	None	WFH750	HSN750
⅞"ø	WR14___	WS120	None	WFH875	HSN875
1"ø	WR16___	WS130	None	WFH1000	HSN1000

By-Pass Girt to Column - Standard Connection - Flange Brace FB4_

Page CF01124 | Date May '19 | Rev 02

Erection Note
Lap and attachment of Girt varies refer to "Elevation Plan" and Lap Detail for requirements.

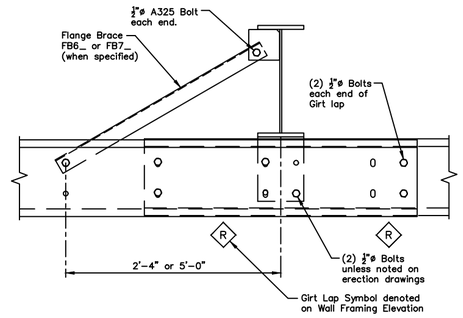


Erection Note
Flange Braces may be required one or both sides of Column.
For requirements, and locations at Main Frame and Rigid Frame in Endwall refer to "Cross Section".
For requirements, and locations at Bearing Frame Endwall refer to "Elevation Plan".

By-Pass Girt to Column - Standard Connection Flange Brace FB6_ or FB7_

Page CF01127 | Date May '19 | Rev 02

Erection Note
Lap and attachment of Girt varies refer to "Elevation Plan" and Lap Detail for requirements.

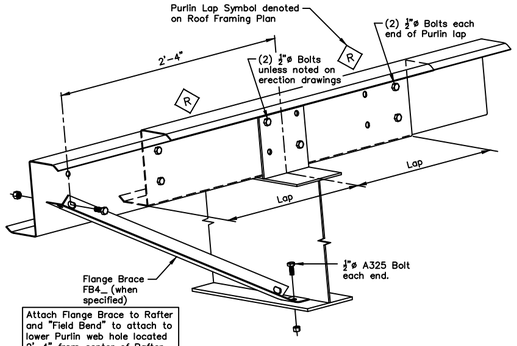


Erection Note
Flange Braces may be required one or both sides of Column.
For requirements, and locations at Main Frame and Rigid Frame in Endwall refer to "Cross Section".
For requirements, and locations at Bearing Frame Endwall refer to "Elevation Plan".

Purlin to Rafter - Standard Connection - Flange Brace FB4_

Page CF02036 | Date May '19 | Rev 01

Erection Note
Lap and attachment of Purlin varies refer to Roof Plan and Lap Detail for requirements.



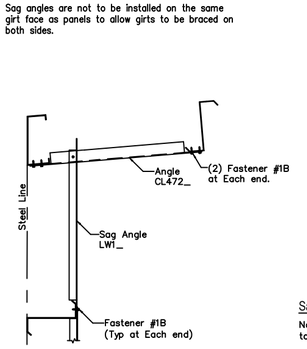
Attach Flange Brace to Rafter and "Field Bend" to attach to lower Purlin web hole located 2'-4" from center of Rafter.

Erection Note
Flange Braces may be required one or both sides of Rafter.
For requirements, and locations at Main Frame and Rigid Frame in Endwall refer to "Cross Section".
For requirements, and locations at Bearing Frame Endwall refer to "Roof Plan".

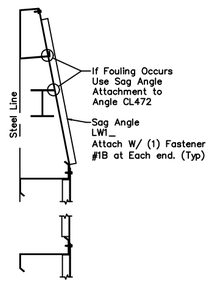
Sag Angle Attachment at Sidewall

Page CF03042 | Date Aug '24 | Rev 04

Sag angles are not to be installed on the same girt face as panels to allow girts to be braced on both sides.

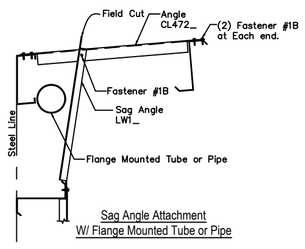


Sag Angle Attachment to Angle CL472



Sag Angle Attachment to Eave Strut

Note: Use Sag Angle Attachment to Angle CL472 W/ Wall Liner



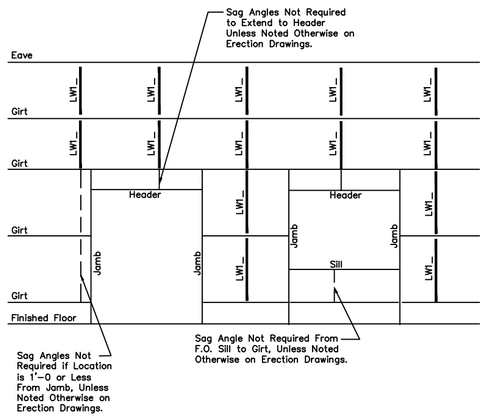
Sag Angle Attachment W/ Flange Mounted Tube or Pipe

Sag Angles at Sidewall Framed Opening (3 or 4 Sided Framed Opening with Jambs to Floor)

Page CF03045 | Date Aug '24 | Rev 03

Sag angles are not to be installed on the same girt face as panels to allow girts to be braced on both sides.

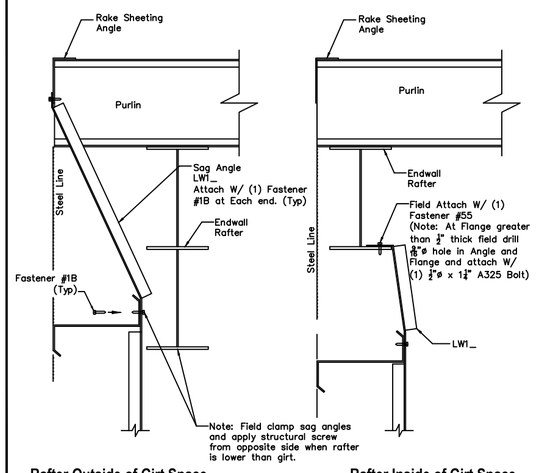
Note: See Erection Drawings for Mark Number Locations and Spacing.



Sag Angle Attachment at Endwall Rake

Page CF03048 | Date Aug '24 | Rev 04

Sag angles are not to be installed on the same girt face as panels to allow girts to be braced on both sides.



Rafter Outside of Girt Space | **Rafter Inside of Girt Space**

Revision	Date	Description	By	Ck'd

Cornerstone Building Brands
13105 Northwest Freeway, Suite 500
Houston, TX 77040
cornerstonebuildingbrands.com

Project Name & Location:
JW PHELPS CONSTRUCTION
300 SW WINDSWEPT GLN
LAKE CITY FL 32024-0694

METALLIC BUILDING SYSTEMS — Part of the Cornerstone Building Brands Family

Customer:
JW PHELPS CONSTRUCTION-
17760 BEACH PARK TRL
PANAMA CITY BEACH FL 324
JUSTIN PHELPS

Drawing Status:
☐ Issued For Approval (Not For Construction)
☐ Issued For Permit
☒ Issued For Construction

Scale:	NOT TO SCALE
Drawn by:	
Checked by:	
Project Engineer:	
Job Number:	19-B-90423-1
Sheet Number:	R4 of 23

The engineer whose seal appears hereon is employed by or is contracted to provide engineering services for the manufacturer, Cornerstone Building Brands or one of its affiliates, 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.

KE HU, P.E.
FLORIDA P.E. 88271

KE HU LICENSE No. 88271 STATE OF FLORIDA PROFESSIONAL ENGINEER
May 06, 2025

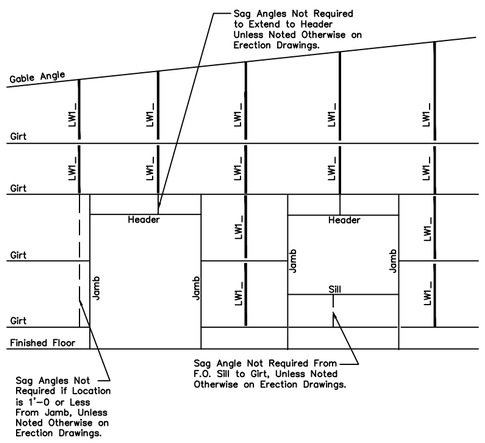
This item has been electronically signed and sealed by Ke Hu, P.E. on the date and/or time stamp shown using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified by a 3rd Party Certificate Authority on any electronic copy.

Sag Angles at Endwall Framed Opening (3 or 4 Sided Framed Opening with Jambs to Floor)

Page CF03050 | Date Aug '24 | Rev 03

Sag angles are not to be installed on the same girt face as panels to allow girts to be braced on both sides.

Note: See Erection Drawings for Mark Number Locations and Spacing.

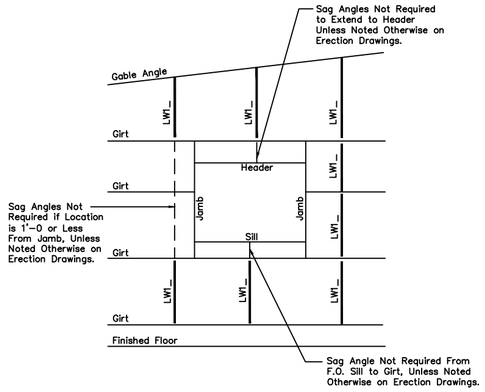


Sag Angles at Endwall Framed Opening (4 Sided Framed Opening Jambs Terminating at Girt)

Page CF03051 | Date Aug '24 | Rev 03

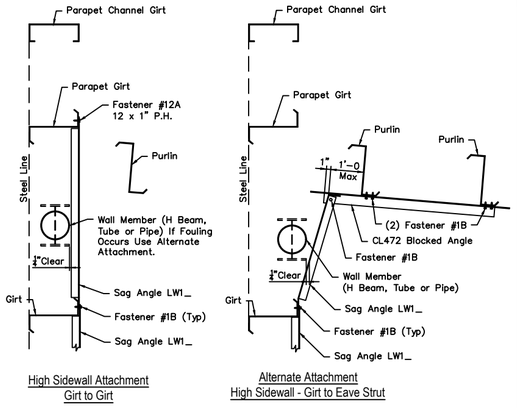
Sag angles are not to be installed on the same girt face as panels to allow girts to be braced on both sides.

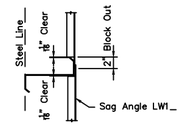
Note: See Erection Drawings for Mark Number Locations and Spacing.



Sag Angle Attachment at High Sidewall Parapet

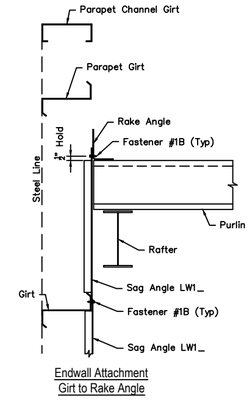
Page CF03056 | Date May '19 | Rev 01

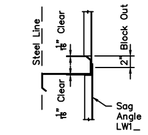




Sag Angle Attachment at Endwall Parapet

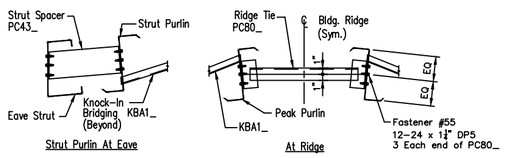
Page CF03057 | Date May '19 | Rev 01



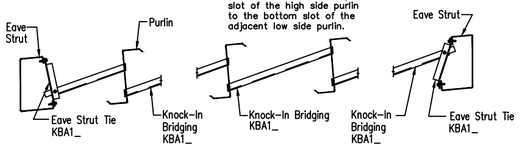


Knock-In Bridging Installation - Less Than 3:12 Single Row

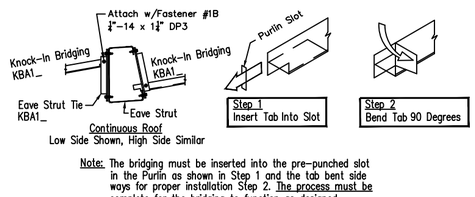
Page KB01001 | Date May '19 | Rev 03



All fasteners shown are #1B ¼"-14 x 1½" DP3 unless noted



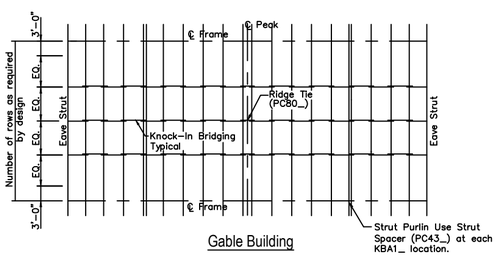
Note: The Bridging Angle will be installed from the top slot of the high side purlin to the bottom slot of the adjacent low side purlin.

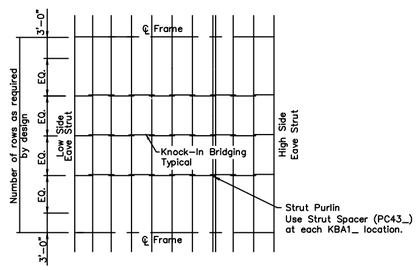


Note: The bridging must be inserted into the pre-punched slot in the Purlin as shown in Step 1 and the tab bent side ways for proper installation Step 2. The process must be complete for the bridging to function as designed.

Knock-In Bridging Roof Layout - Single Row

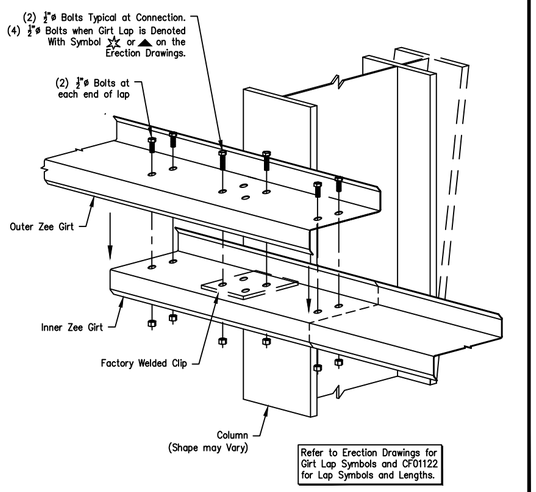
Page KB01006 | Date Apr '20 | Rev 04





Girt Connection At Bypass Column

Page CF01120 | Date May '23 | Rev 03

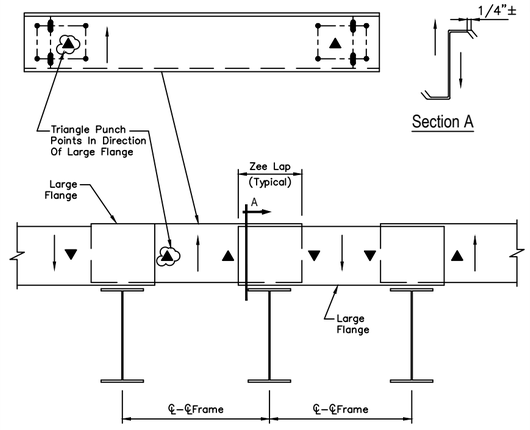


Refer to Erection Drawings for Girt Lap Symbols and CF01122 for Lap Symbols and Lengths.

All Bolts to be ¾"ø Unless Noted. For Required Length Refer to Grip Table on Erection Drawings.

Bypass Zee Installation

Page CF01121 | Date Apr '19 | Rev 01



The large leg of the Zee must be alternated from top to bottom in order to nest the member correctly. A triangle has been added to the end of the Zee near the connection holes, that will point to the large leg of the member.

Revision	Date	By	Ck'd	Description

Cornerstone Building Brands
13105 Northwest Freeway, Suite 500
Houston, TX 77040
cornerstonebuildingbrands.com

Project Name & Location:
JW PHELPS CONSTRUCTION
300 SW WINDSWEPT GLN
LAKE CITY FL 32024-0694

METALLIC BUILDING SYSTEMS — Part of the Cornerstone Building Brands Family

Customer:
JW PHELPS CONSTRUCTION
17760 BEACH PARK TRL
PANAMA CITY BEACH FL 324
JUSTIN PHELPS

Drawing Status:
☐ Issued For Approval (Not For Construction)
☐ Issued For Permit
☒ Issued For Construction

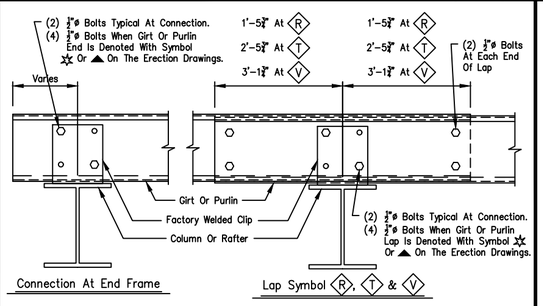
Scale: NOT TO SCALE
Drawn by:
Checked by:
Project Engineer:
Job Number: 19-B-90423-1
Sheet Number: R5 of 23

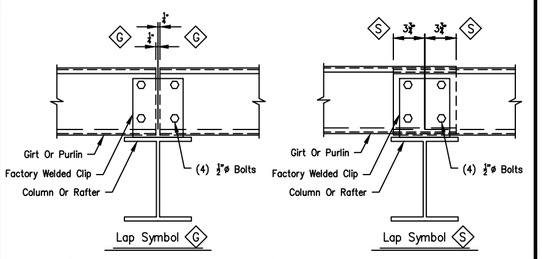
KE HU, P.E.
FLORIDA P.E. 88271

KE HU LICENSE No. 88271 STATE OF FLORIDA PROFESSIONAL ENGINEER
May 06, 2025

Girt And Purlin Connection At Bypass Column And Rafter

Page CF01122 | Date May '23 | Rev 04





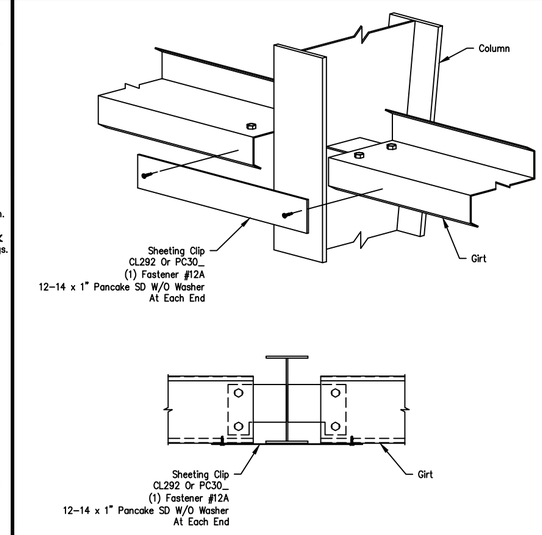
ZEE SECTION LAP TABLE			
SYMBOL	LAP LENGTH	SYMBOL	LAP LENGTH
R	1'-5½"	T	2'-5½"
G	0'-3½"	V	3'-1½"

Refer to Erection Drawings for Lap Symbol at Girt and Purlin Connection.

All Bolts to be ½"ø Unless Noted. For Required Length Refer to Grip Table on Erection Drawings.

Girts At Column Flush Sidewall Or Endwall Girts

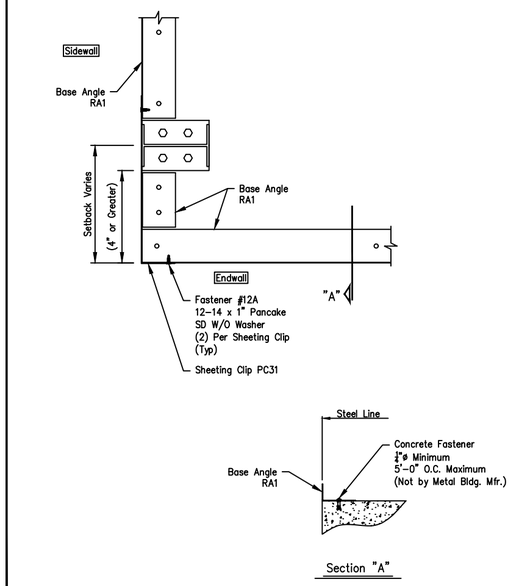
Page CF01123 | Date Apr '19 | Rev 02



Notes:
Zee Girt Shown
Cee Girt Similar
All Bolts To Be ½"ø Unless Noted For Required Length Refer To Grip Table On Erection Drawings.

Corner Base Angle Detail With Flush Sidewall Column Endwall Base Angle By-Passes Column Base Plate

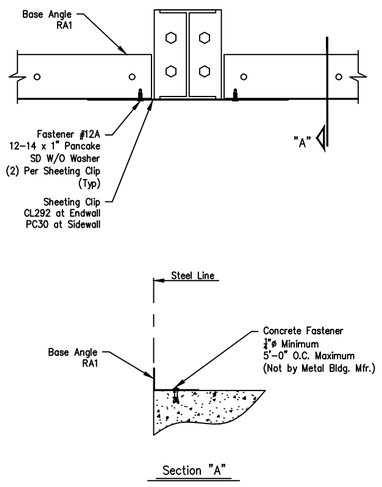
Page BF01001 | Date Apr '16 | Rev 00



Base framing is supplied in standard lengths. Modifications such as cutting at columns or openings, are to be handled in the field.

Column Base Angle Detail With Flush Column

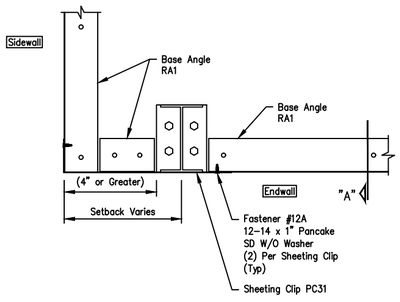
Page BF01005 | Date Apr '16 | Rev 00



Base framing is supplied in standard lengths. Modifications such as cutting at columns or openings, are to be handled in the field.

Corner Base Angle Detail With Flush Endwall Column Sidewall Base Angle By-Passes Column Base Plate

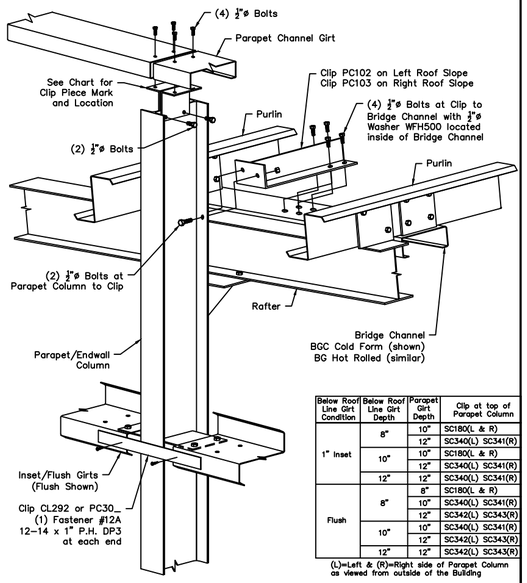
Page BF01021 | Date Apr '16 | Rev 00



Base framing is supplied in standard lengths. Modifications such as cutting at columns or openings, are to be handled in the field.

Parapet - Inset And Flush Girts - At Slope Bearing Frame Endwall with Load Bearing Column Uphill and Downhill Purlins are both greater than 1'-0" from Column

Page PT02025 | Date May '19 | Rev 02

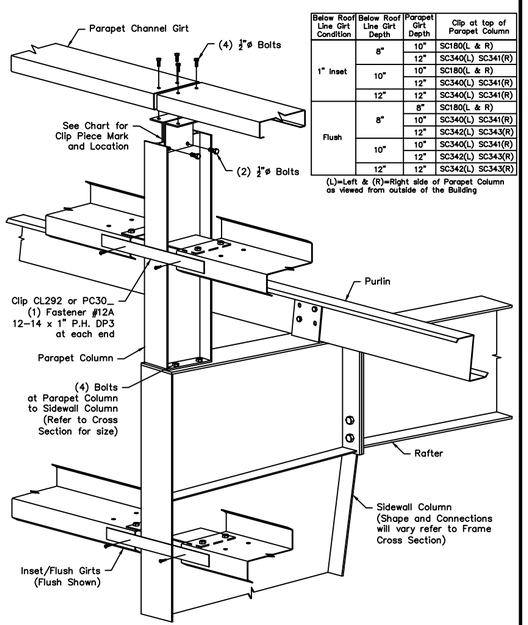


Below Roof Line Girt Condition	Below Roof Line Girt Depth	Parapet Girt Depth	Clip at top of Parapet Column
1" Inset	8"	10"	SC180(L & R)
		12"	SC340(L) SC341(R)
	10"	10"	SC180(L & R)
		12"	SC340(L) SC341(R)
	12"	12"	SC340(L) SC341(R)
Flush	8"	8"	SC180(L & R)
		10"	SC340(L) SC341(R)
		12"	SC342(L) SC343(R)
	10"	10"	SC340(L) SC341(R)
		12"	SC342(L) SC343(R)
	12"	12"	SC342(L) SC343(R)

(L)=Left & (R)=Right side of Parapet Column as viewed from outside of the Building

Parapet - Inset And Flush Girts - High Sidewall Column

Page PT02006 | Date May '19 | Rev 02

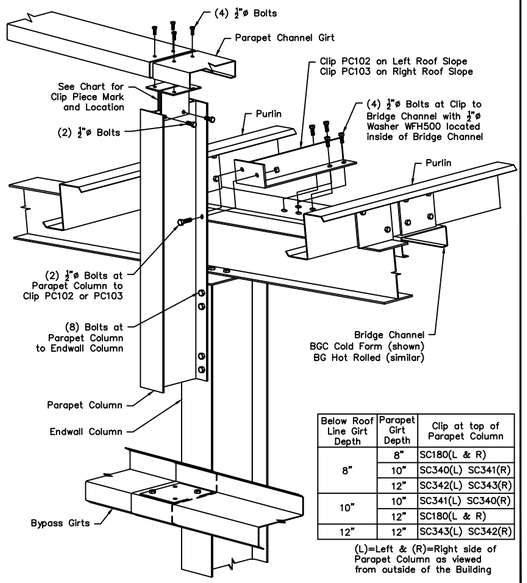


Below Roof Line Girt Condition	Below Roof Line Girt Depth	Parapet Girt Depth	Clip at top of Parapet Column
1" Inset	8"	10"	SC180(L & R)
		12"	SC340(L) SC341(R)
	10"	10"	SC180(L & R)
		12"	SC340(L) SC341(R)
	12"	12"	SC340(L) SC341(R)
Flush	8"	8"	SC180(L & R)
		10"	SC340(L) SC341(R)
		12"	SC342(L) SC343(R)
	10"	10"	SC340(L) SC341(R)
		12"	SC342(L) SC343(R)
	12"	12"	SC342(L) SC343(R)

(L)=Left & (R)=Right side of Parapet Column as viewed from outside of the Building

Parapet - Bypass Girts - At Slope - Bearing Frame And Rigid Frame Endwall with Load Bearing Column - Uphill and Downhill Purlins are both greater than 1'-0" from Column

Page PT02015 | Date May '19 | Rev 02



Below Roof Line Girt Depth	Parapet Girt Depth	Clip at top of Parapet Column
8"	8"	SC180(L & R)
	10"	SC340(L) SC341(R)
	12"	SC342(L) SC343(R)
10"	10"	SC341(L) SC340(R)
	12"	SC180(L & R)
12"	12"	SC343(L) SC342(R)

(L)=Left & (R)=Right side of Parapet Column as viewed from outside of the Building

Revision	Date	By	Ck'd	Description

Cornerstone Building Brands
13105 Northwest Freeway, Suite 500
Houston, TX 77040
cornerstonebuildingbrands.com

Project Name & Location:
JW PHELPS CONSTRUCTION
300 SW WINDSWEPT GLN
LAKE CITY FL 32024-0694

METALLIC BUILDING SYSTEMS — Part of the Cornerstone Building Brands Family

Customer:
JW PHELPS CONSTRUCTION-
17760 BEACH PARK TRL
PANAMA CITY BEACH FL 324
JUSTIN PHELPS

Drawing Status:
☐ Issued For Approval (Not For Construction)
☐ Issued For Permit
☒ Issued For Construction

Scale: NOT TO SCALE

Drawn by:

Checked by:

Project Engineer:

Job Number: 19-B-90423-1

Sheet Number: R6 of 23

The engineer whose seal appears hereon is employed by or is contracted to provide engineering services for the manufacturer, Cornerstone Building Brands or one of its affiliates, 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.

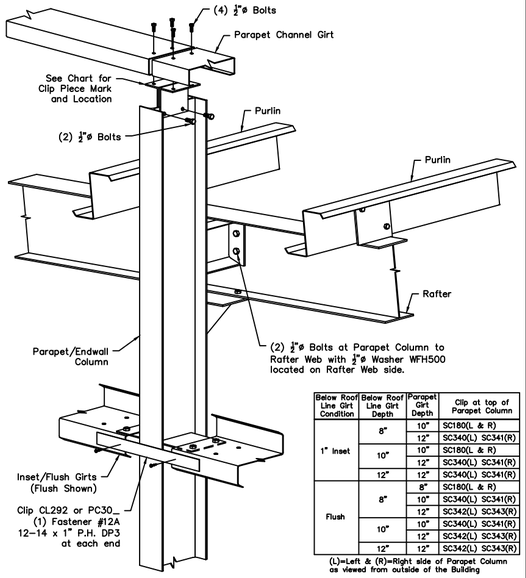
KE HU, P.E.
FLORIDA P.E. 88271

KE HU LICENSE No. 88271 STATE OF FLORIDA PROFESSIONAL ENGINEER
May 06, 2025

This item has been electronically signed and sealed by Ke Hu, P.E. on the date and/or time stamp shown using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified by a 3rd Party Certificate Authority on any electronic copy.

Parapet - Inset And Flush Girts at Slope Bearing Frame Endwall with Load Bearing Column

Page PT02026 | Date May '19 | Rev 02

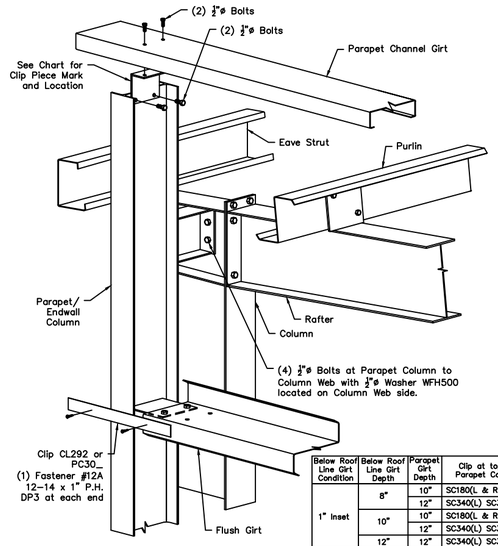


Below Roof Line Girt Condition	Below Roof Line Girt Depth	Parapet Girt Depth	Clip at top of Parapet Column
1" Inset	8"	10"	SC180(L & R)
		12"	SC340(L) SC341(R)
	10"	10"	SC180(L & R)
		12"	SC340(L) SC341(R)
	12"	12"	SC340(L) SC341(R)
Flush	8"	8"	SC180(L & R)
		10"	SC340(L) SC341(R)
		12"	SC342(L) SC343(R)
	10"	10"	SC340(L) SC341(R)
		12"	SC342(L) SC343(R)
	12"	12"	SC342(L) SC343(R)

(L)=Left & (R)=Right side of Parapet Column as viewed from outside of the Building

Parapet - Bearing Frame And Rigid Frame Endwall - Endwall Corner Column with No Parapet on the Sidewall

Page PT02035 | Date May '19 | Rev 03

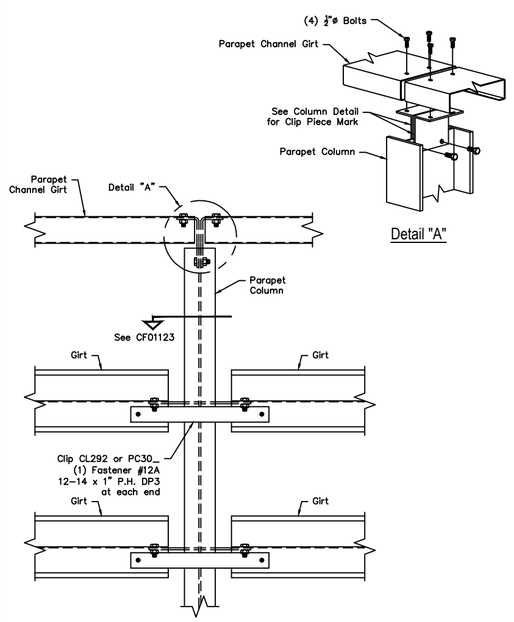


Below Roof Line Girt Condition	Below Roof Line Girt Depth	Parapet Girt Depth	Clip at top of Parapet Column
1" Inset	8"	10"	SC180(L & R)
		12"	SC340(L) SC341(R)
	10"	10"	SC180(L & R)
		12"	SC340(L) SC341(R)
	12"	12"	SC340(L) SC341(R)
Flush	8"	8"	SC180(L & R)
		10"	SC340(L) SC341(R)
		12"	SC342(L) SC343(R)
	10"	10"	SC340(L) SC341(R)
		12"	SC342(L) SC343(R)
	12"	12"	SC342(L) SC343(R)

(L)=Left & (R)=Right side of Parapet Column as viewed from outside of the Building

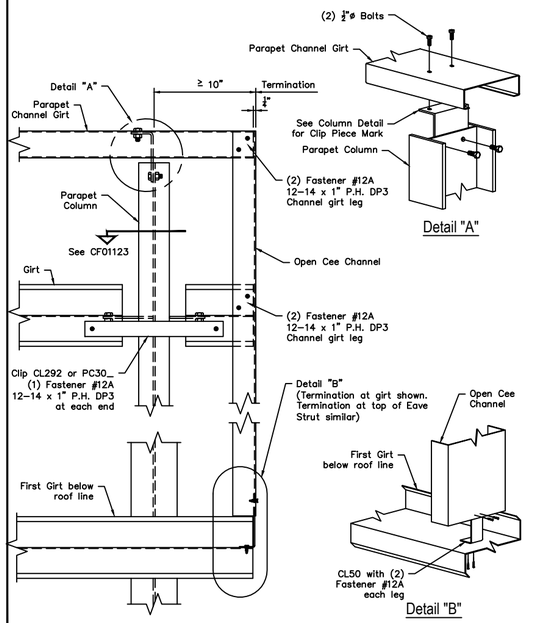
Parapet - Girt attachment at Interior Parapet Column

Page PT03001 | Date May '19 | Rev 02



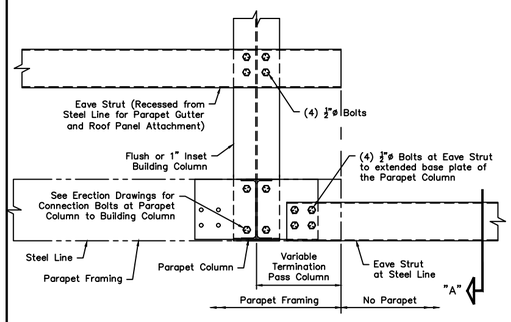
Parapet - Termination 10" and greater from Parapet Column

Page PT03004 | Date May '19 | Rev 02

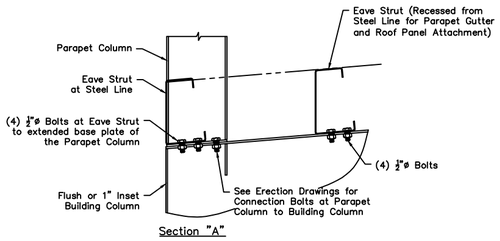


Parapet Termination with Inset And Flush Girts Eave Strut Connection Detail

Page PT03011 | Date May '19 | Rev 01



Eave Strut Connection Detail
Termination to Right of Column Shown to the Left of Column Reveres



Section "A"

Revision	Date	By	Ck'd	Description

Cornerstone Building Brands
13105 Northwest Freeway, Suite 500
Houston, TX 77040
cornerstonebuildingbrands.com

Project Name & Location:
JW PHELPS CONSTRUCTION
300 SW WINDSWEPT GLN
LAKE CITY FL 32024-0694

Customer:
JW PHELPS CONSTRUCTION–
17760 BEACH PARK TRL
PANAMA CITY BEACH FL 324
JUSTIN PHELPS

Drawing Status:
☐ Issued For Approval (Not For Construction)
☒ Issued For Permit
☐ Issued For Construction

Scale:	NOT TO SCALE
Drawn by:	
Checked by:	
Project Engineer:	
Job Number:	19–B–90423–1
Sheet Number:	R7 of 23

The engineer whose seal appears hereon is employed by or is contracted to provide engineering services for the manufacturer, Cornerstone Building Brands or one of its affiliates, 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.

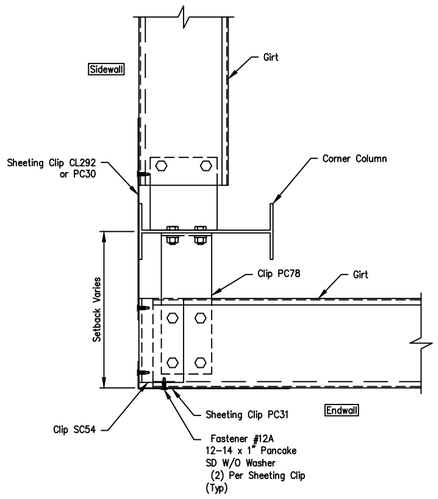
KE HU, P.E.
FLORIDA P.E. 88271

KE HU LICENSE No. 88271 STATE OF FLORIDA PROFESSIONAL ENGINEER
May 06, 2025

This item has been electronically signed and sealed by Ke Hu, P.E. on the date and/or time stamp shown using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified by a 3rd Party Certificate Authority on any electronic copy.

Sidewall Girts and Endwall Girts at Flush Corner Column
Endwall Girts By-Passes Corner Column

Page EF03103 | Date Jan '16 | Rev 01

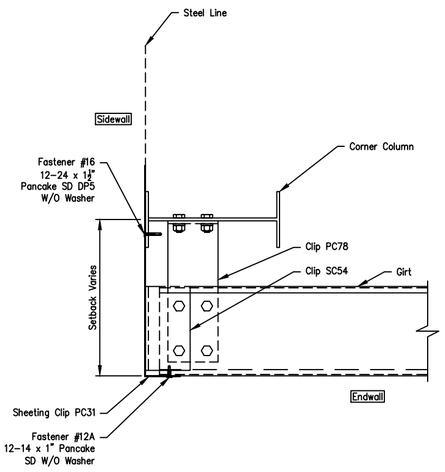


Note:
Zee Girt Shown
Cee Girt Similar

All Bolts To Be ¾"ø Unless Noted.
For Required Length Refer To Grip Table On Erection Drawings.

Endwall Girts and Non-Aligned Girts or Open Sidewall at Flush Corner Column With Long Setback - Endwall Girt Bypasses Corner Column

Page EF03105 | Date Jan '16 | Rev 01

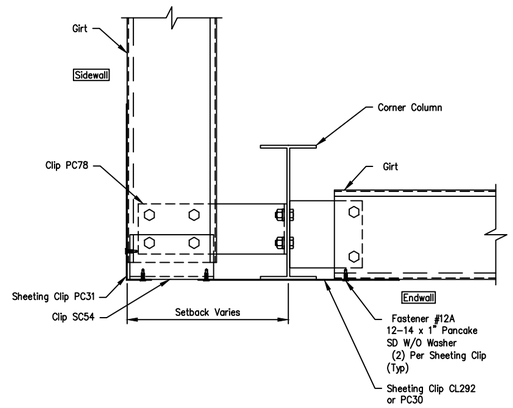


Note:
Zee Girt Shown
Cee Girt Similar

All Bolts To Be ¾"ø Unless Noted.
For Required Length Refer To Grip Table On Erection Drawings.

Sidewall Girts and Endwall Girts at Rotated Flush Corner Column
Sidewall Girt Bypasses Corner Column

Page EF03203 | Date Jan '16 | Rev 01

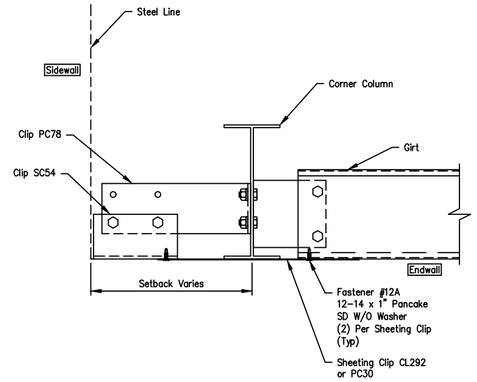


Note:
Zee Girt Shown
Cee Girt Similar

All Bolts To Be ¾"ø Unless Noted.
For Required Length Refer To Grip Table On Erection Drawings.

Endwall Girts and Non-Aligned Girts or Open Sidewall at Rotated Flush Corner Column

Page EF03205 | Date Feb '17 | Rev 02

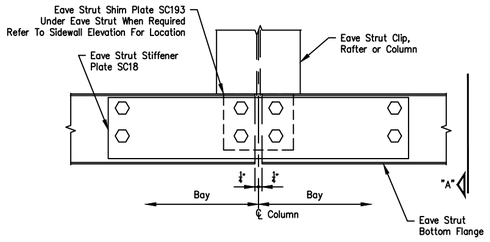


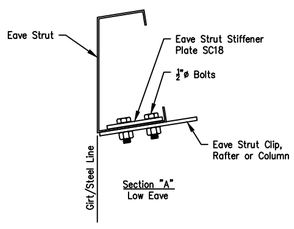
Note:
Zee Girt Shown
Cee Girt Similar

All Bolts To Be ¾"ø Unless Noted.
For Required Length Refer To Grip Table On Erection Drawings.

Eave Strut Stiffener Plate - 4 Bolt Connection
Low Eave At Interior Bay Column - Roof Slope 4½:12 Or Less

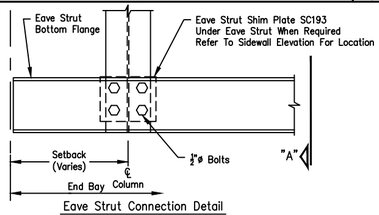
Page CF02031 | Date Sep '17 | Rev 02



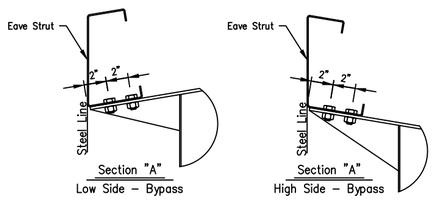


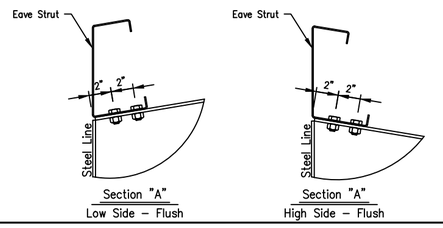
Eave Strut Connection
Flush / Bypass Column - End Bay Column - Roof Slope 4½:12 Or Less

Page CF02033 | Date Sep '17 | Rev 04



Eave Strut Connection Detail
Flush / Bypass Column – End Bay Column





Revision	Date	Description	By	Ck'd

Cornerstone Building Brands
13105 Northwest Freeway, Suite 500
Houston, TX 77040
cornerstonebuildingbrands.com

Project Name & Location:
JM PHELPS CONSTRUCTION
300 SW WINDSWEPT GLN
LAKE CITY FL 32024-0694

METALLIC BUILDING SYSTEMS
Part of the Cornerstone Building Brands Family

Customer:
JM PHELPS CONSTRUCTION-
17760 BEACH PARK TRL
PANAMA CITY BEACH FL 324
JUSTIN PHELPS

☐ Issued For Approval (Not For Construction)
☐ Issued For Permit
☒ Issued For Construction

Drawing Status:

Scale: NOT TO SCALE
Drawn by:
Checked by:
Project Engineer:
Job Number: 19-B-90423-1

Sheet Number: R8 of 23

The engineer whose seal appears hereon is employed by or is contracted to provide engineering services for the manufacturer, Cornerstone Building Brands or one of its affiliates, 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.

KE HU, P.E.
FLORIDA P.E. 88271

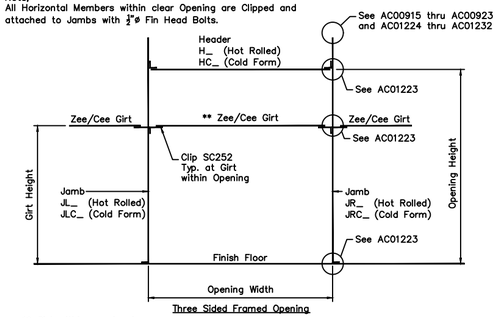
KE HU
LICENSE
No. 88271
STATE OF FLORIDA
PROFESSIONAL ENGINEER
May 06, 2025

This item has been electronically signed and sealed by Ke Hu, P.E. on the date and/or time stamp shown using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified by a 3rd Party Certificate Authority on any electronic copy.

Welded Clips - Framed Opening Connections - Cold Form and Hot Rolled Cee - Three and Four Sided Openings

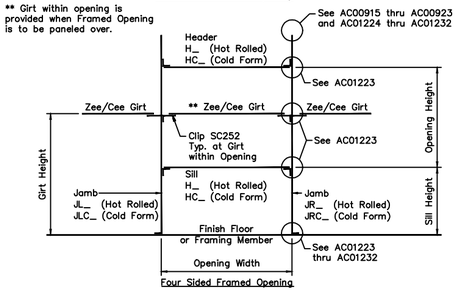
Page AC01220 | Date May '19 | Rev 02

Note;
All Horizontal Members within clear Opening are Clipped and attached to Jambs with ½"ø Fin Head Bolts.



Three Sided Framed Opening

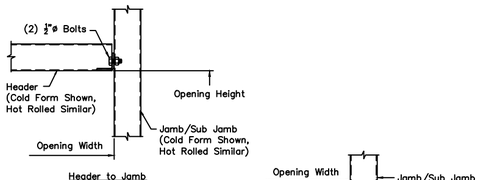
** Girt within opening is provided when Framed Opening is to be paneled over.



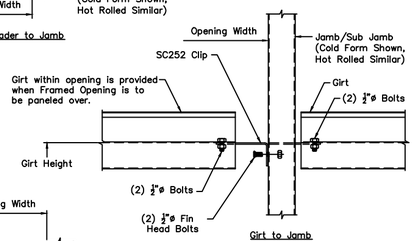
Four Sided Framed Opening

Welded Clips - Framed Opening Connections - Cold Form and Hot Rolled Base, Girt, Header, and Sill to Jamb

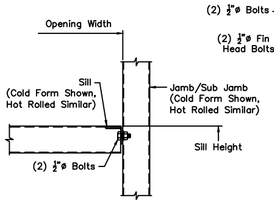
Page AC01223 | Date May '19 | Rev 02



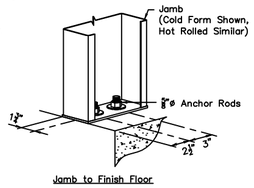
Header to Jamb



Girt to Jamb



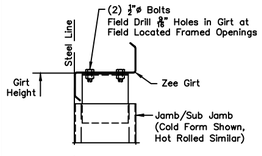
Sill to Jamb



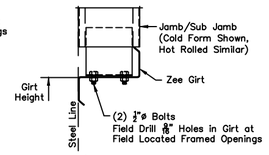
Jamb to Finish Floor

Welded Clips - Framed Opening Connections - Cold Form and Hot Rolled Jamb/Sub Jamb to Zee/Cee Girt or Header/Sill

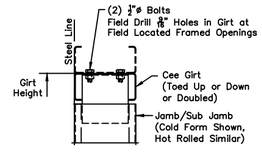
Page AC01224 | Date May '19 | Rev 01



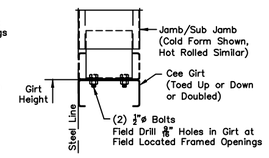
Jamb/Sub Jamb to Zee Girt



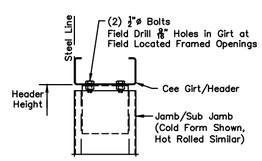
Jamb/Sub Jamb to Zee Girt



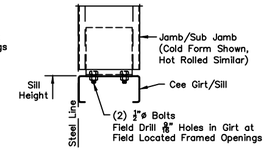
Jamb/Sub Jamb to Cee Girt



Jamb/Sub Jamb to Cee Girt



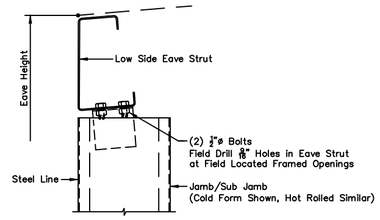
Jamb/Sub Jamb to Cee Girt/Header



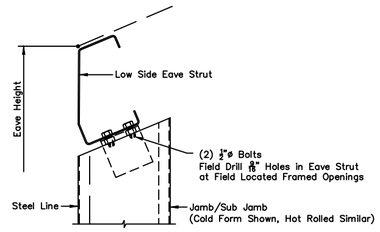
Jamb/Sub Jamb to Cee Girt/Sill

Welded Clips - Framed Opening Connections - Cold Form and Hot Rolled Cee - Jamb/Sub Jamb to Low Side Eave Strut

Page AC01225 | Date May '19 | Rev 01



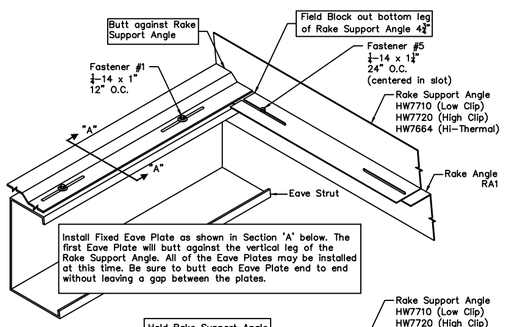
Jamb/Sub Jamb to Low Side Eave Strut
0:12 thru 4¾":12 Roof Slope

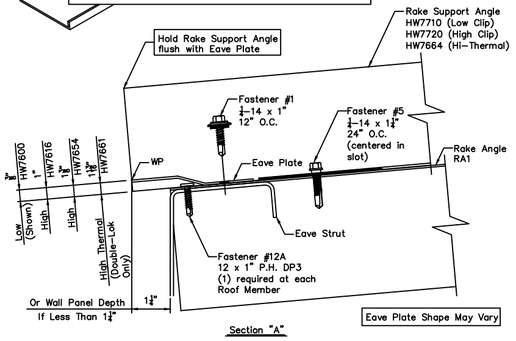


Jamb/Sub Jamb to Low Side Eave Strut
4¾":12 thru 12:12 Roof Slope

Double-Lok / Ultra-Dek - Fixed Eave Plate

Page GDL01003 | Date Jan '23 | Rev 03

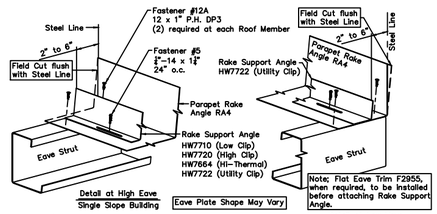




Section "A"

Double-Lok / Ultra-Dek - Rake Support - Fixed Eave - Parapet Rake

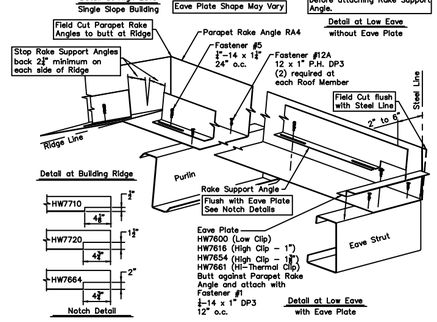
Page GDL01008 | Date May '19 | Rev 02



Detail at High Eave Single Slope Building

Eave Plate Shape May Vary

Detail at Low Eave without Eave Plate



Detail at Building Ridge

Notch Detail

Detail at Low Eave with Eave Plate

Cornerstone Building Brands
13105 Northwest Freeway, Suite 500
Houston, TX 77040
cornerstonebuildingbrands.com

Revision	Date	By	Ck'd	Description

Project Name & Location:
JM PHELPS CONSTRUCTION
300 SW WINDSWEPT GLN
LAKE CITY FL 32024-0694

Customer:
JM PHELPS CONSTRUCTION-
17760 BEACH PARK TRL
PANAMA CITY BEACH FL 324
JUSTIN PHELPS

Drawing Status:
☐ Issued For Approval (Not For Construction)
☒ Issued For Permit
☐ Issued For Construction

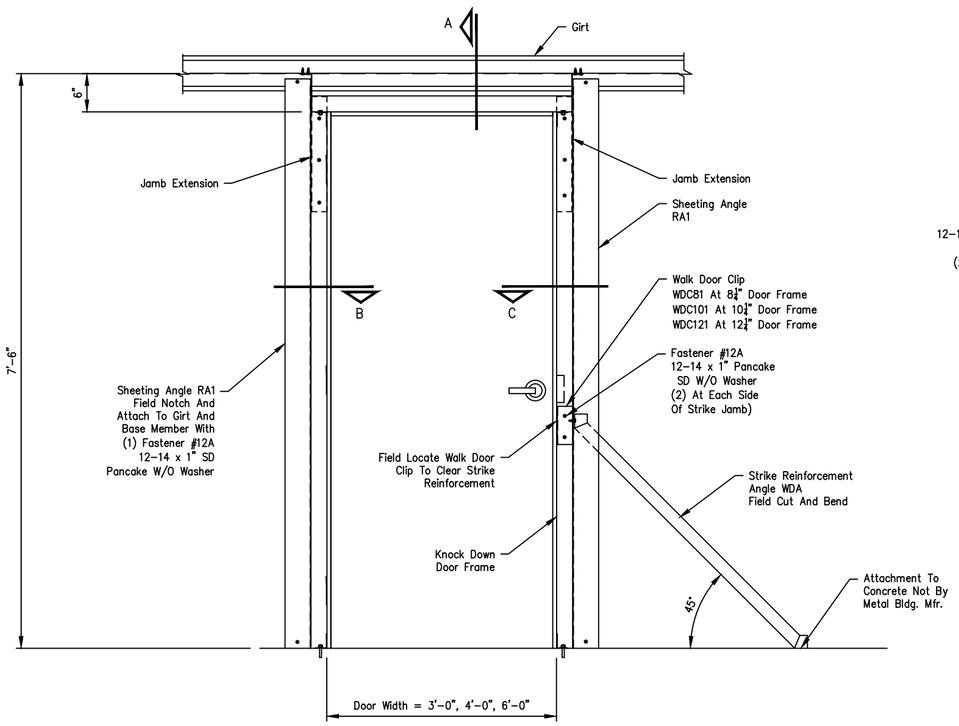
Scale: NOT TO SCALE
Drawn by:
Checked by:
Project Engineer:
Job Number: 19-B-90423-1
Sheet Number: R9 of 23

The engineer whose seal appears hereon is employed by or is contracted to provide engineering services for the manufacturer, Cornerstone Building Brands or one of its affiliates, 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.

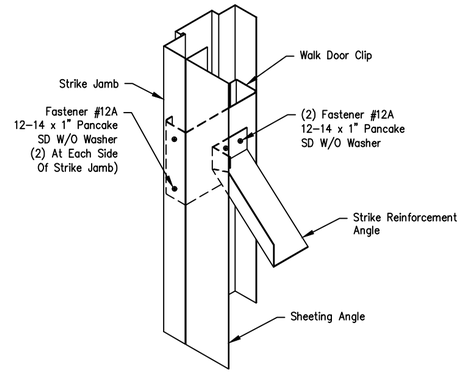
KE HU, P.E.
FLORIDA P.E. 88271

KE HU LICENSE No. 88271 STATE OF FLORIDA PROFESSIONAL ENGINEER
May 06, 2025

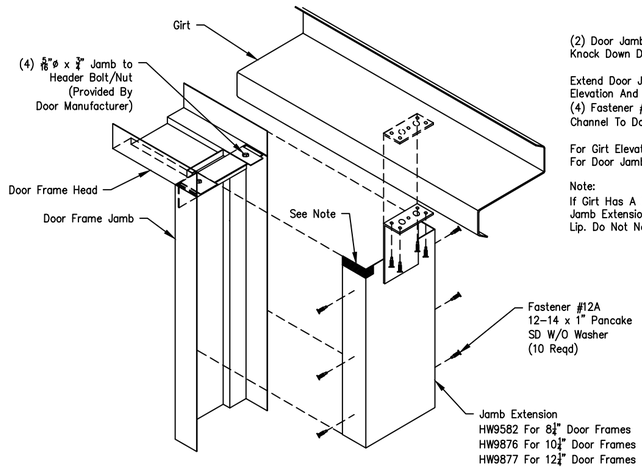
This item has been electronically signed and sealed by Ke Hu, P.E. on the date and/or time stamp shown using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified by a 3rd Party Certificate Authority on any electronic copy.



Door Elevation



Walk Door Clip/Strike Reinforcement Angle Isometric



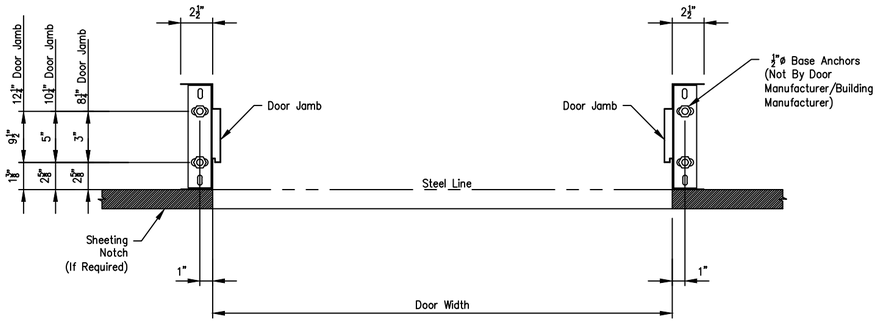
Door Jamb Extension Isometric

(2) Door Jamb Extensions Are Required For All Knock Down Doors.

Extend Door Jamb Extension To The 7'-6" Girt Elevation And Attach To The Web Of The Girt With (4) Fastener #12A, Attach Door Jamb Extension Channel To Door Jamb With (6) Fastener #12A.

For Girt Elevations Above 7'-6" Refer To AC05132 For Door Jamb Extension Requirements.

Note:
If Girt Has A 3½" Flange, Field Notch Jamb Extension Channel To Clear Girt Lip. Do Not Notch Girt Lip.

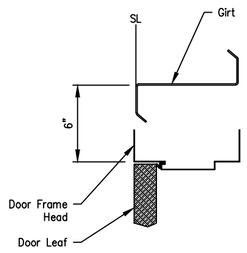


The Adequacy Of The ½"ø Base Anchor Is Not The Responsibility Of The Building Manufacturer. The Adequacy Of These Base Anchors Should Be Determined By A Qualified Foundation Engineer.

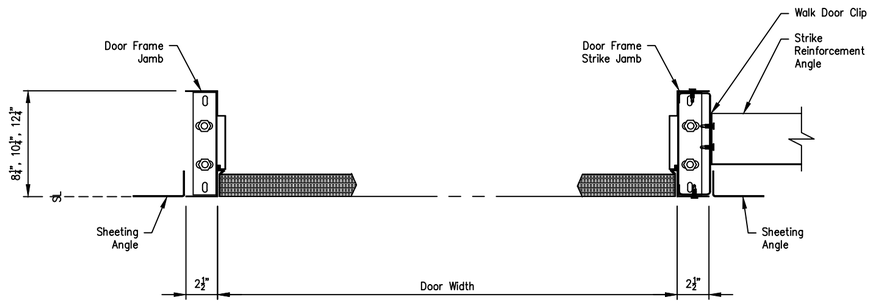
Verify Door Jamb Base Clip Dimensions With Patterns Shown Prior To Placement Of Door Anchors And Adjust Patterns If Needed.

Note: 12¼" Frames May Not Have Kerf Door Frame Feature Depending On Door Manufacturer.

Knock Down Door Anchor Placement



Section A



Section B

Section C

Knock Down Door - Girt At 7'-6" Without Low Girt	Page AC05200	
	Date Nov '18	Rev 00

Revision	Date	Description	By	Ck'd

Cornerstone Building Brands
13105 Northwest Freeway, Suite 500
Houston, TX 77040
cornerstonebuildingbrands.com

Project Name & Location:
JM PHELPS CONSTRUCTION
300 SW WINDSWEPT GLN
LAKE CITY FL 32024-0694

Customer:
JM PHELPS CONSTRUCTION-
17760 BEACH PARK TRL
PANAMA CITY BEACH FL 324
JUSTIN PHELPS

Drawing Status:
☐ Issued For Approval (Not For Construction)
☒ Issued For Permit

Scale: NOT TO SCALE
Drawn by:
Checked by:
Project Engineer:
Job Number: 19-B-90423-1
Sheet Number: R10 of 23

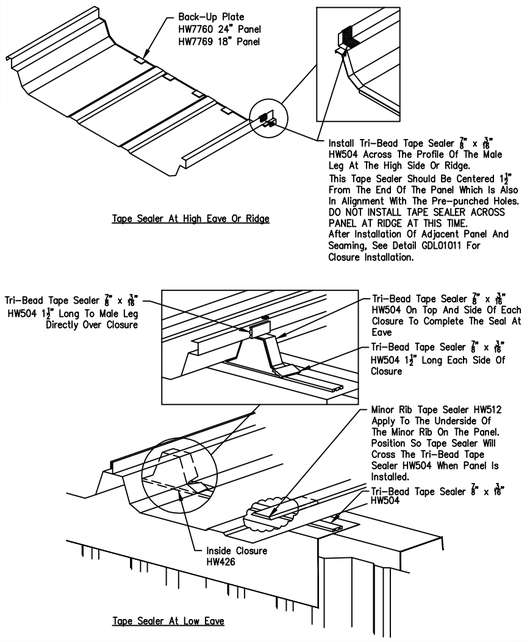
KE HU, P.E.
FLORIDA P.E. 88271

KE HU
LICENSE
No. 88271
STATE OF FLORIDA
PROFESSIONAL ENGINEER
May 06, 2025

This item has been electronically signed and sealed by Ke Hu, P.E. on the date and/or time stamp shown using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified by a 3rd Party Certificate Authority on any electronic copy.

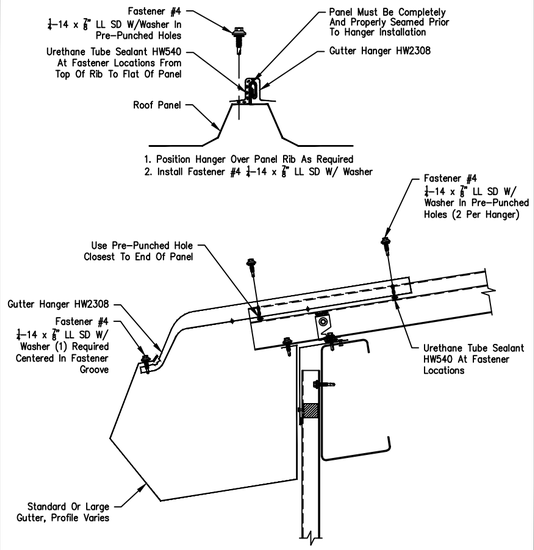
Double-Lok / Ultra-Dek Roof
Tape Sealer At High Eave / Ridge And Low Eave

Page GDL02040 | Date Oct '20 | Rev 03



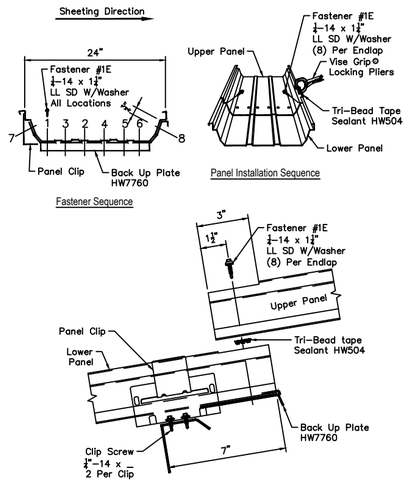
Double-Lok / Ultra-Dek Roof - Northern Standard And Northern Large Gutter
Gutter Hanger Installation Detail

Page GDL05002 | Date Apr '19 | Rev 01



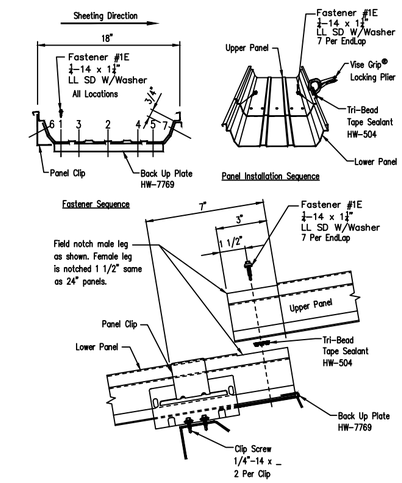
Double-Lok / Ultra-Dek - 24" Panel End Lap

Page GDL05020 | Date May '19 | Rev 02



Double-Lok / Ultra-Dek - 18" Panel Lap

Page GDL05021 | Date May '19 | Rev 02



Double-Lok Panel Clip - Cold Formed / Long Bay Purlin / Bar Joist
General Information

Page GDL05030 | Date Jul '22 | Rev 01

	Recommended Insulation/Thermal Spacer Thickness Application
Low 2" Sliding Panel Clip HW2122	Maximum 4" Thick Over Purlins Without Thermal Spacers 3/8" Thermal Spacer Without Insulation
High 2" Sliding Panel Clip HW2124	Maximum 3" Thick Over Purlins With 1" Thermal Spacers 3 1/2" To A Maximum 4" Thick Over Purlins With 3/8" Thermal Spacers Maximum 6" Thick Over Purlins With 3/8" Thermal Spacers Maximum 8" Thick Over Purlins Without Thermal Spacers
Low 4" Sliding Panel Clip HW2126	Maximum 4" Thick Over Purlins Without Thermal Spacers 3/8" Thermal Spacer Without Insulation
High 4" Sliding Panel Clip HW2128	Maximum 3" Thick Over Purlins With 1" Thermal Spacers 3 1/2" To A Maximum 4" Thick Over Purlins With 3/8" Thermal Spacers Maximum 6" Thick Over Purlins With 3/8" Thermal Spacers Maximum 8" Thick Over Purlins Without Thermal Spacers
Hi-Thermal Sliding Panel Clip HW2129	Maximum 6" Thick Over Purlins With 1" Thermal Spacers Maximum 8" Thick Over Purlins With 3/8" Thermal Spacers Maximum 9" Thick Over Purlins With 3/8" Thermal Spacers Maximum 12" Thick Over Purlins Without Thermal Spacers

Panel Clip Fastener	Insulation Thickness	Material Thickness
Fastener #1 1/4-14 x 1" SD W/Washer	Less Than Or Equal To 4"	Less Than 1/4"
Fastener #1F 1/4-14 x 1 1/2" SD W/Washer	Greater Than 4" Max. 12"	Less Than 1/4"

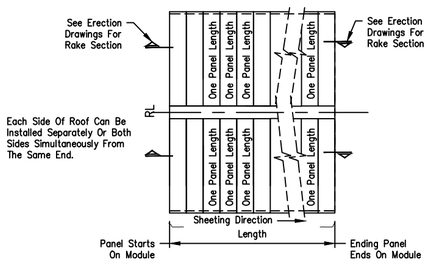
Panel Clip Fastener	Insulation Thickness	Material Thickness
Fastener #67 12-24 x 1 1/2" SD DP5 W/Washer	Less Than Or Equal To 4"	Greater Than Or Equal To 1/4" Max. 3/4"
Fastener #69 12-24 x 1 1/2" SD DP5 W/Washer	Greater Than 4" Max. 12"	Greater Than Or Equal To 3/4" Max. 1"

Note: When Top And Bottom Angle Bridging Is Required And The Insulation Thickness Is Less Than Or Equal To 4", Fastener #1D Will Be Provided Instead Of Fastener #1. (See TBA02001 For Additional Information)

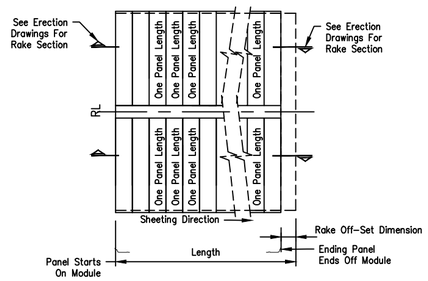
Fastener #1D 1/4-14 x 1 1/2" SD W/Washer

Double-Lok / Ultra-Dek - Sheeting Layout
Gable Building - One Panel Length

Page GDL05040 | Date Nov '17 | Rev 01



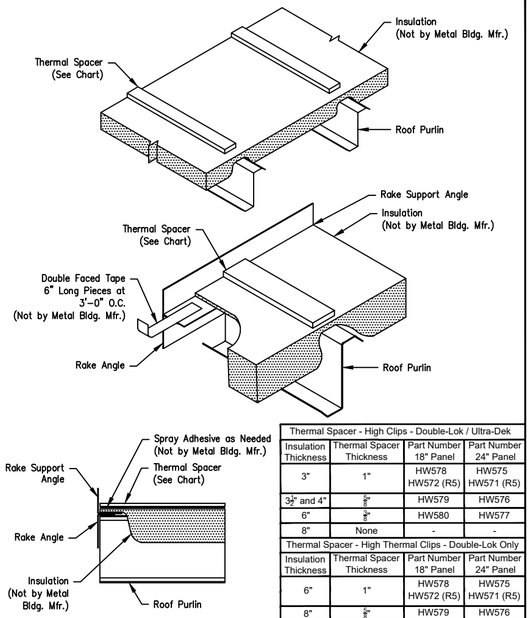
Building Lengths Where Panels Start And End On Module



Building Lengths Where Panels Start On Module And End Off Module

Thermal Spacer Installation - Zee Purlins
Double-Lok / Ultra-Dek - High Clip System

Page GDL05055 | Date Dec '16 | Rev 01



Thermal Spacer - High Clips - Double-Lok / Ultra-Dek			
Insulation Thickness	Thermal Spacer Thickness	Part Number 18" Panel	Part Number 24" Panel
3"	1"	HW578 HW572 (R5)	HW575 HW571 (R5)
3 1/2" and 4"	3/8"	HW579	HW576
6"	3/8"	HW580	HW577
8"	None	-	-
Thermal Spacer - High Thermal Clips - Double-Lok Only			
Insulation Thickness	Thermal Spacer Thickness	Part Number 18" Panel	Part Number 24" Panel
6"	1"	HW578 HW572 (R5)	HW575 HW571 (R5)
8"	3/8"	HW579	HW576
9" and 10"	3/8"	HW580	HW577
12"	None	-	-

Revision	Date	By	Ck'd	Description

Cornerstone Building Brands
13105 Northwest Freeway, Suite 500
Houston, TX 77040
cornerstonebuildingbrands.com

Project Name & Location:
JM PHELPS CONSTRUCTION
300 SW WINDSWEPT GLN
LAKE CITY FL 32024-0694

METALLIC BUILDING SYSTEMS — Part of the Cornerstone Building Brands Family

Customer:
JM PHELPS CONSTRUCTION-
17760 BEACH PARK TRL
PANAMA CITY BEACH FL 324
JUSTIN PHELPS

Drawing Status:
☐ Issued For Approval (Not For Construction)
☐ Issued For Permit
☒ Issued For Construction

Scale: NOT TO SCALE
Drawn by:
Checked by:
Project Engineer:
Job Number: 19-B-90423-1
Sheet Number: R11 of 23

The engineer whose seal appears hereon is employed by or is contracted to provide engineering services for the manufacturer, Cornerstone Building Brands or one of its affiliates, 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.

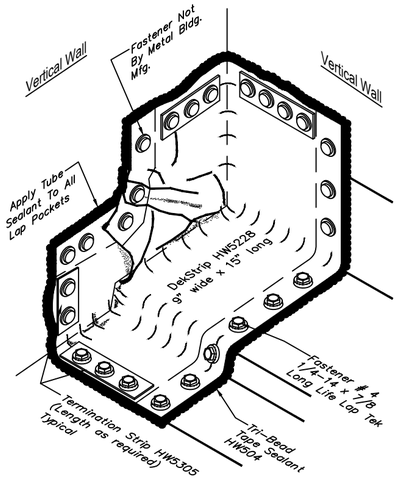
KE HU, P.E.
FLORIDA P.E. 88271

KE HU LICENSE No. 88271 STATE OF FLORIDA PROFESSIONAL ENGINEER
May 06, 2025

This item has been electronically signed and sealed by Ke Hu, P.E. on the date and/or time stamp shown using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified by a 3rd Party Certificate Authority on any electronic copy.

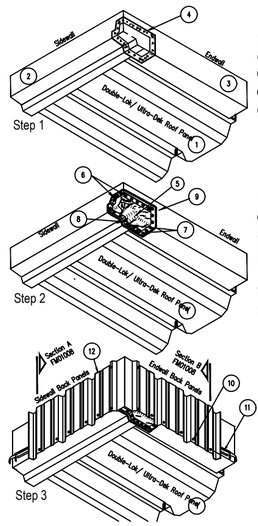
Roof to Masonry - Parapet Wall - Corner

Page FM01003 | Date May '19 | Rev 02



Double-Lok / Ultra-Dek Roof Panel - Parapet Wall - Sheeted Inside Corner

Page FM01007 | Date May '19 | Rev 03



Step 1

1. Double-Lok/ Ultra-Dek Roof Panel
2. High Eave Parapet Trim (See Trim Layout)
3. Parapet Rake Trim (See Trim Layout)
4. Tri-Bead Tape Sealant HW504

Apply Tri-bead Sealant at inside corner over top of parapet trims under DekStrip HW5228.

Step 2

5. DekStrip HW5228 – 9" Wide x 1'-6" Long
6. (22) Fastener #12A Pancake Head provided (2" o.c. max. spacing)
7. (14) Fastener #4 1/4-14 x 7/8" LL SD W/Washer provided (2" o.c. max. spacing)
8. Termination Strip HW5305 at Ends of DekStrip
9. Tube Sealant HW541

Apply DekStrip over Tri Bead Sealant and fasten to parapet trim with fastener #12A where DekStrip is behind back panels and fastener #4 with termination strip where DekStrip is exposed. Apply tube sealant around perimeter of DekStrip.

Step 3

10. Fastener #17A 12-14 x 1 1/4" SD W/Washer
11. Inside Panel Closures and Tape Sealant
12. Back Panels

Install back panels over DekStrip. See section A and B on page FM01008.

This Drawing is for illustrative purposes. Actual fastener quantities and location will depend on actual field conditions

Revision	Date	Description	By	Ck'd

Cornerstone Building Brands
13105 Northwest Freeway, Suite 500
Houston, TX 77040
cornerstonebuildingbrands.com

METAL BUILDING SYSTEMS — Part of the Cornerstone Building Brands Family

Project Name & Location:
JM PHELPS CONSTRUCTION
300 SW WINDSWEPT GLN
LAKE CITY FL 32024-0694

Customer:
JM PHELPS CONSTRUCTION-
17760 BEACH PARK TRL
PANAMA CITY BEACH FL 324
JUSTIN PHELPS

Drawing Status:
☐ Issued For Approval (Not For Construction)
☐ Issued For Permit
☒ Issued For Construction

Scale: NOT TO SCALE

Drawn by:

Checked by:

Project Engineer:

Job Number: 19-B-90423-1

Sheet Number: R12 of 23

The engineer whose seal appears hereon is employed by or is contracted to provide engineering services for the manufacturer, Cornerstone Building Brands or one of its affiliates, 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.

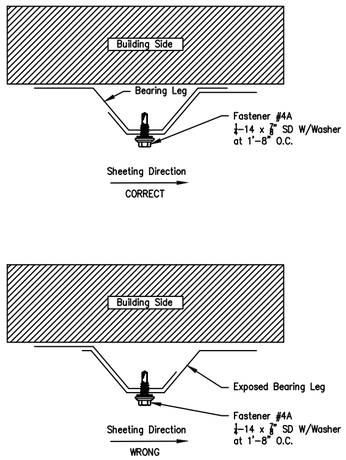
KE HU, P.E.
FLORIDA P.E. 88271

KE HU
LICENSE
No. 88271
STATE OF FLORIDA
PROFESSIONAL ENGINEER
May 06, 2025

This item has been electronically signed and sealed by Ke Hu, P.E. on the date and/or time stamp shown using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified by a 3rd Party Certificate Authority on any electronic copy.

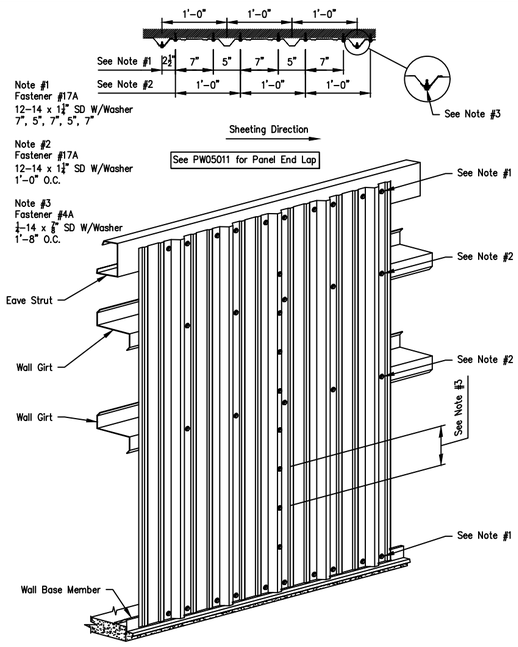
PBR Wall Panel
Panel Side Lap

Page PW05002 | Date Mar '19 | Rev 03



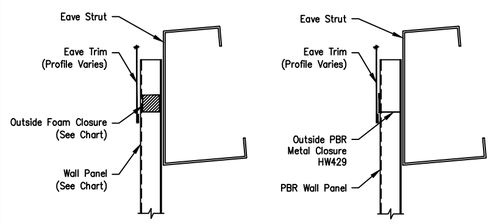
PBR Wall Panel
Fastener Location

Page PW05003 | Date Aug '15 | Rev 04



Single Skin Wall Panel Outside Closure Requirements at Eave

Page GD06002 | Date Jun '23 | Rev 03



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

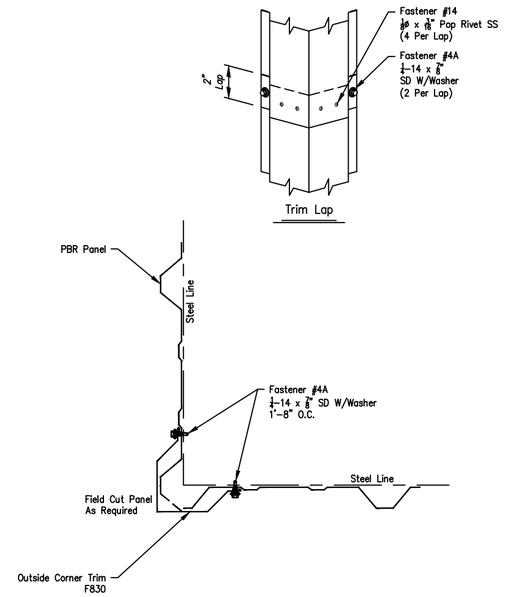
Detail at Optional Metal Closure
For PBR Panel Only
(Low Eave Shown High Eave Similar)

Note:
Foam Closures Are Required When Job Requires Air Infiltration Or Sealed Wall Requirements, See GD16002.

Wall Panel	Foam Closure
PBR	HW456
AVP	HW465
PBU	HW460
NuWall	HW424
PBC	HW462
PBD	HW463
ShadowRib	HW412
Designer Series (Fluted Only)	HW4037
RBR (Reverse Rolled PBR)	HW455
RBU (Reverse Rolled PBU)	HW459
7.2	HW461

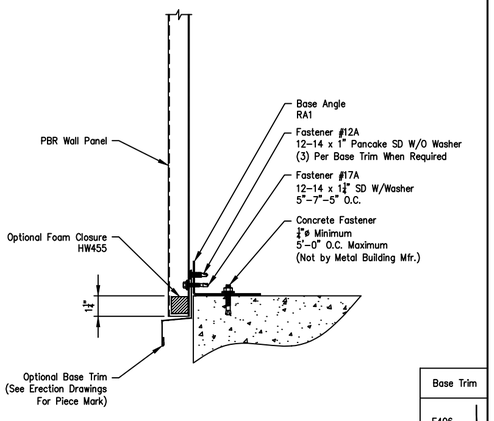
PBR Wall Panel
Outside Corner - On Module

Page PW03001 | Date Apr '19 | Rev 08



PBR Wall Panel
Base Angle Without Panel Recess

Page PW02101 | Date Apr '18 | Rev 02



Base Trim
F406
F407
F408

Wall panel must be held off of base trim a minimum of ¼" to prevent bottom of wall panel from rusting.

Revision	Date	By	Ck'd	Description

Cornerstone Building Brands
13105 Northwest Freeway, Suite 500
Houston, TX 77040
cornerstonebuildingbrands.com

Project Name & Location:
JM PHELPS CONSTRUCTION
300 SW WINDSWEPT GLN
LAKE CITY FL 32024-0694

Customer:
JM PHELPS CONSTRUCTION-
17760 BEACH PARK TRL
PANAMA CITY BEACH FL 324
JUSTIN PHELPS

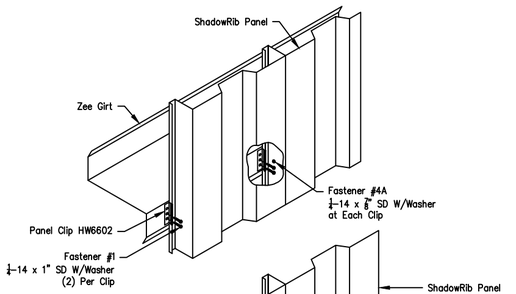
Drawing Status:
☐ Issued For Approval (Not For Construction)
☐ Issued For Permit
☒ Issued For Construction

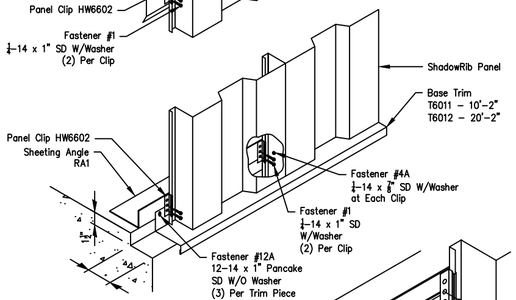
Scale: NOT TO SCALE
Drawn by:
Checked by:
Project Engineer:
Job Number: 19-B-90423-1
Sheet Number: R13 of 23

KE HU, P.E.
FLORIDA P.E. 88271

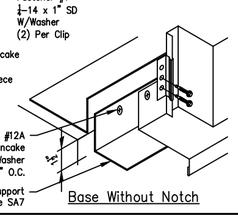
ShadowRib Panel
Attachment at Base and Intermediate Girts

Page SR02001 | Date Jul '17 | Rev 03





Base With Notch

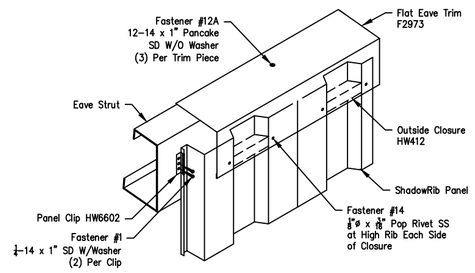


Base Without Notch

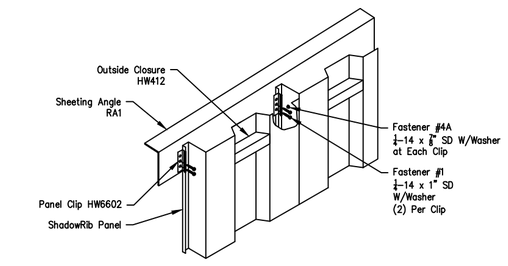
Wall panel must be held off of base trim a minimum of ¼" to prevent bottom of wall panel from rusting.

ShadowRib Panel
Attachment at Eave and Rake

Page SR05001 | Date Jun '15 | Rev 00



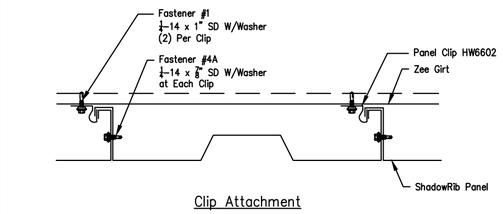
Eave Attachment



Rake Attachment

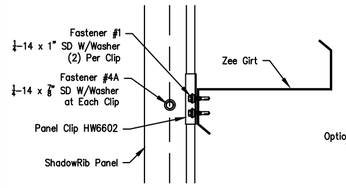
ShadowRib Panel
Attachment to Girt

Page SR05002 | Date Jun '15 | Rev 00

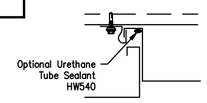


Clip Attachment

Note:
It is recommended that no more than 4" thick blanket wall insulation be used with the ShadowRib wall panel.



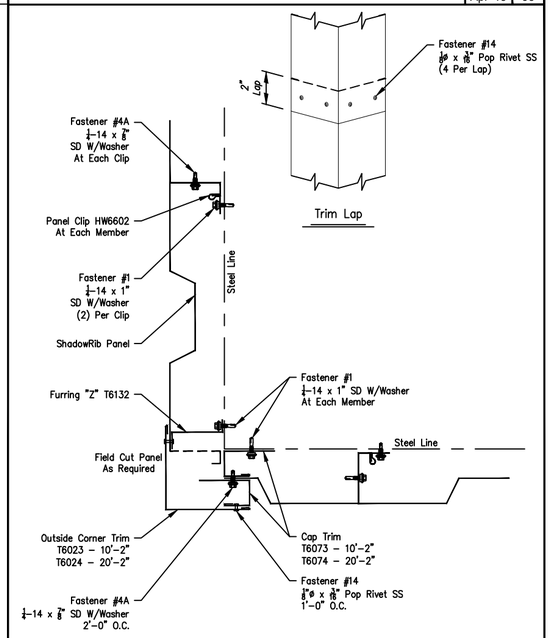
Section – Clip Attachment



Optional Sealant

ShadowRib Wall Panel - Outside Corner
Start At Low Rib / End At High Rib

Page SR03002 | Date Apr '19 | Rev 06



Revision	Date	By	Ck'd

Description

Cornerstone Building Brands
13105 Northwest Freeway, Suite 500
Houston, TX 77040
cornerstonebuildingbrands.com

Project Name & Location:
JM PHELPS CONSTRUCTION
300 SW WINDSWEPT GLN
LAKE CITY FL 32024-0694

Customer:
JM PHELPS CONSTRUCTION-
17760 BEACH PARK TRL
PANAMA CITY BEACH FL 324
JUSTIN PHELPS

Drawing Status:
☐ Issued For Approval (Not For Construction)
☐ Issued For Permit
☒ Issued For Construction

Scale: NOT TO SCALE

Drawn by:

Checked by:

Project Engineer:

Job Number: 19-B-90423-1

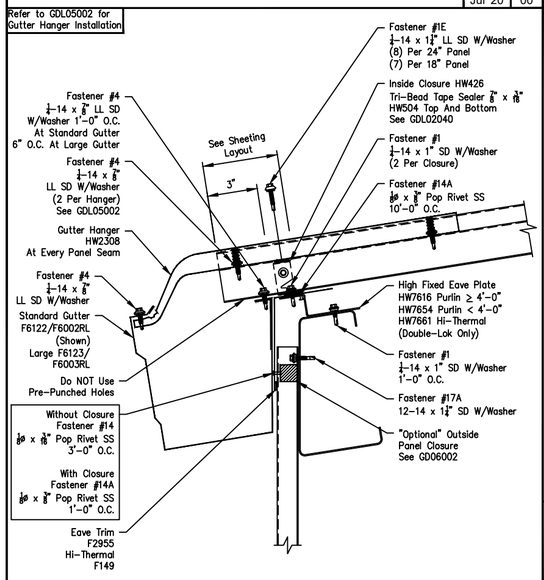
Sheet Number: R14 of 23

KE HU, P.E.
FLORIDA P.E. 88271

KE HU
LICENSE
No. 88271
STATE OF FLORIDA
PROFESSIONAL ENGINEER
May 06, 2025

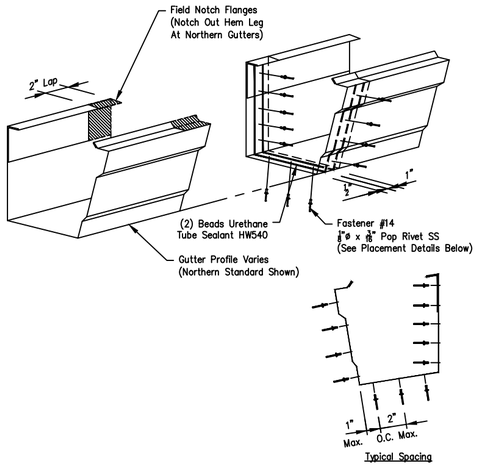
Double-Lok / Ultra-Dek - Edgecraft Northern Standard And Northern Large Gutter - Fixed High Or Hi-Thermal Eave Plate - Sheeted Wall

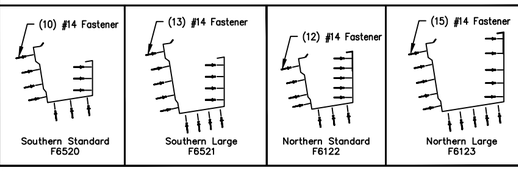
Page TDL02016 | Date Jul '20 | Rev 00



Double-Lok / Ultra-Dek
Edgecraft Eave Gutter End Lap Installation

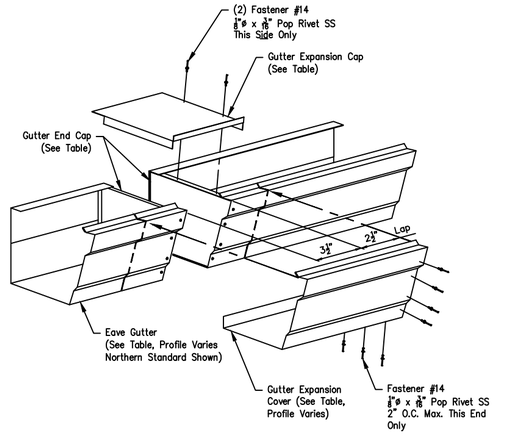
Page TDL05002 | Date Jul '20 | Rev 00





Double-Lok / Ultra-Dek - Edgecraft Eave Gutter Expansion Installation 100'-0" Maximum

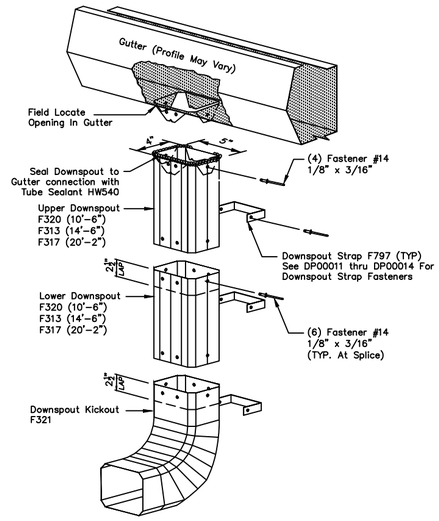
Page TDL05003 | Date May '21 | Rev 01



Gutter		Gutter End Cap	Expansion Cap	Expansion Cover
Southern Standard	F6520	F6412 (9) Fastener #14	F6408	F6404 (10) Fastener #14
Southern Large	F6521	F6413 (11) Fastener #14	F6409	F6405 (11) Fastener #14
Northern Standard	F6122	F6014 (11) Fastener #14	F6010	F6006 (9) Fastener #14
Northern Large	F6123	F6015 (15) Fastener #14	F6011	F6007 (12) Fastener #14

Roll Form Downspout Layout 4" x 5"

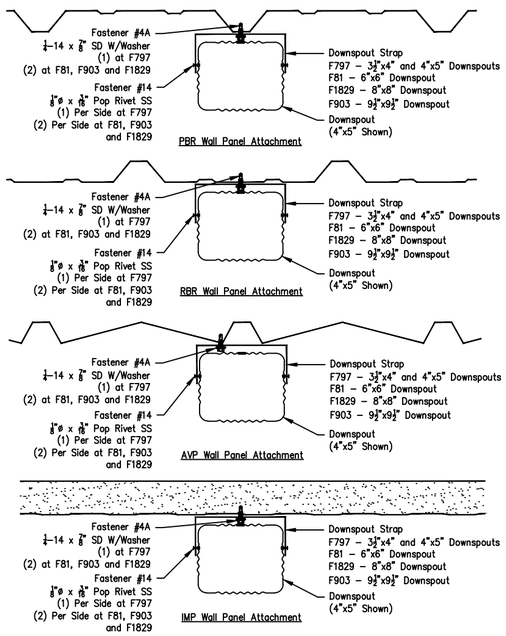
Page DP00001 | Date Mar '25 | Rev 05



Note:
1. Refer to the building erection drawings for the spacing of the downspouts.
2. Locate all downspouts over a panel major rib if possible.
3. A field splice is required for eave heights greater than 16'-0". Always measure the required length starting at the swaged end. After cutting to length, insert the swaged end of the cut downspout into the top of the lower downspout.
4. Downspout straps F797 are Located at the bottom of a downspout, below a splice, and at mid point of downspout longer than 10'-6". See DP00011 thru DP00014 for downspout strap fasteners.

Downspout Strap Attachment
PBR, RBR, AVP & IMP Fully Sheeted Wall

Page DP00011 | Date Jun '23 | Rev 04



Revision	Date	Description	By	Ck'd

Cornerstone Building Brands
13105 Northwest Freeway, Suite 500
Houston, TX 77040
cornerstonebuildingbrands.com

Project Name & Location:
JW PHELPS CONSTRUCTION
300 SW WINDSWEPT GLN
LAKE CITY FL 32024-0694

METALLIC BUILDING SYSTEMS
Part of the Cornerstone Building Brands Family

Customer:
JW PHELPS CONSTRUCTION-
17760 BEACH PARK TRL
PANAMA CITY BEACH FL 324
JUSTIN PHELPS

Drawing Status:
☐ Issued For Approval (Not For Construction)
☐ Issued For Permit
☒ Issued For Construction

Scale: NOT TO SCALE

Drawn by:

Checked by:

Project Engineer:

Job Number: 19-B-90423-1

Sheet Number: R15 of 23

The engineer whose seal appears hereon is employed by or is contracted to provide engineering services for the manufacturer, Cornerstone Building Brands or one of its affiliates, 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.

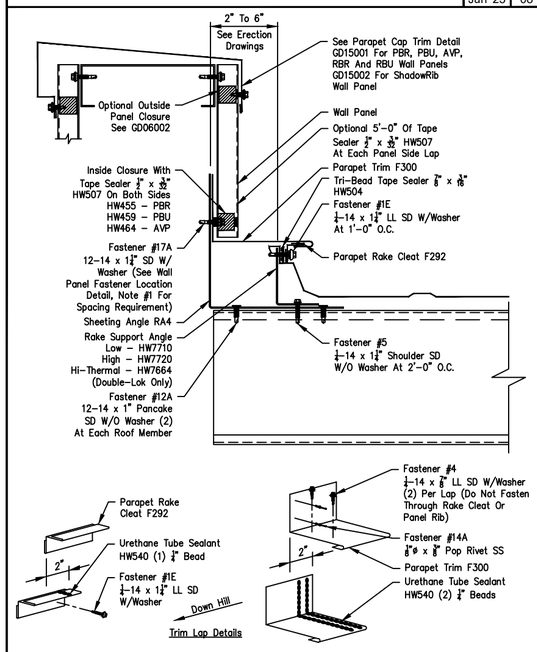
KE HU, P.E.
FLORIDA P.E. 88271

KE HU
LICENSE
No. 88271
STATE OF FLORIDA
PROFESSIONAL ENGINEER
May 06, 2025

This item has been electronically signed and sealed by Ke Hu, P.E. on the date and/or time stamp shown using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified by a 3rd Party Certificate Authority on any electronic copy.

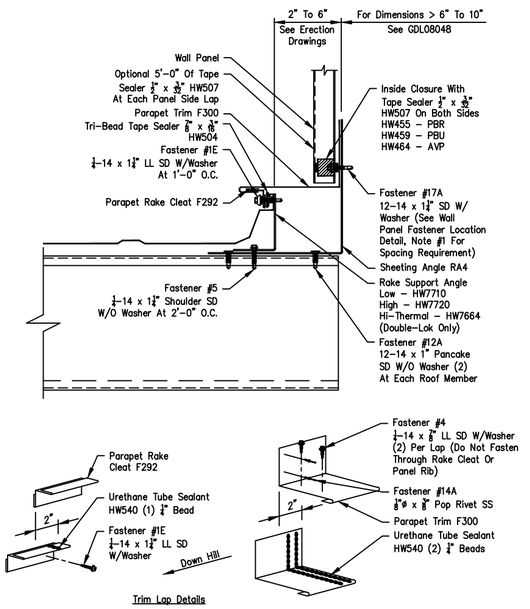
Double-Lok / Ultra-Dek
Endwall Parapet (Beginning)

Page GDL23020 | Date Jun '23 | Rev 08



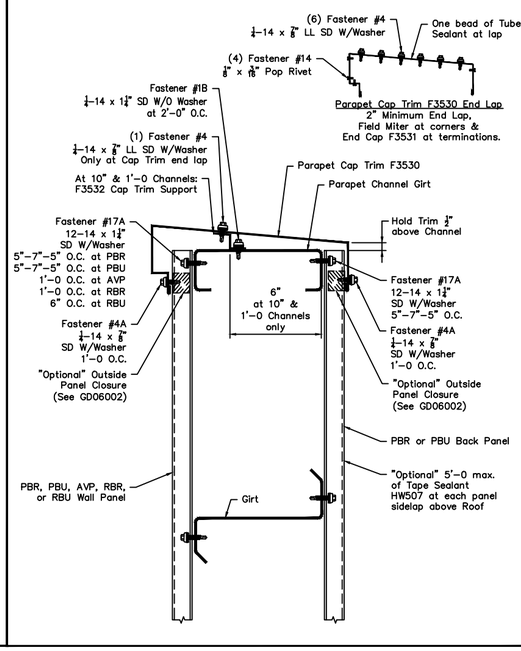
Double-Lok / Ultra-Dek
Parapet Rake At Sheeted Wall (Ending)

Page GDL08015 | Date Jun '23 | Rev 08



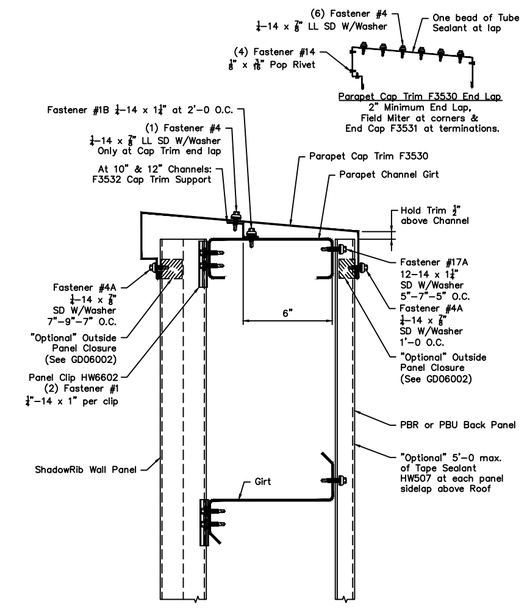
Parapet Cap Trim Detail
PBR, PBU, AVP, RBR & RBU Wall Panel

Page GD15001 | Date Feb '19 | Rev 03



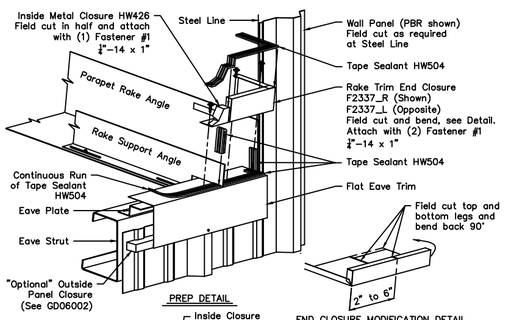
Parapet Cap Trim Detail - ShadowRib Wall Panel

Page GD15002 | Date May '19 | Rev 03



DoubleLok / UltraDek - Fixed Low Eave with Eave Plate
Parapet Rake at Sheeted Wall - Low Eave Termination Detail

Page GDL08008 | Date Feb '20 | Rev 12



Revision	Date	Description	By	Ck'd

Cornerstone Building Brands
13105 Northwest Freeway, Suite 500
Houston, TX 77040
cornerstonebuildingbrands.com

Project Name & Location:
JM PHELPS CONSTRUCTION
300 SW WINDSWEPT GLN
LAKE CITY FL 32024-0694

METALLIC BUILDING SYSTEMS — Part of the Cornerstone Building Brands Family

Customer:
JM PHELPS CONSTRUCTION-
17760 BEACH PARK TRL
PANAMA CITY BEACH FL 324
JUSTIN PHELPS

Drawing Status:
☐ Issued For Approval (Not For Construction)
☐ Issued For Permit
☒ Issued For Construction

Scale: NOT TO SCALE

Drawn by:

Checked by:

Project Engineer:

Job Number: 19-B-90423-1

Sheet Number: R16 of 23

The engineer whose seal appears hereon is employed by or is contracted to provide engineering services for the manufacturer, Cornerstone Building Brands or one of its affiliates, 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.

KE HU, P.E.
FLORIDA P.E. 88271

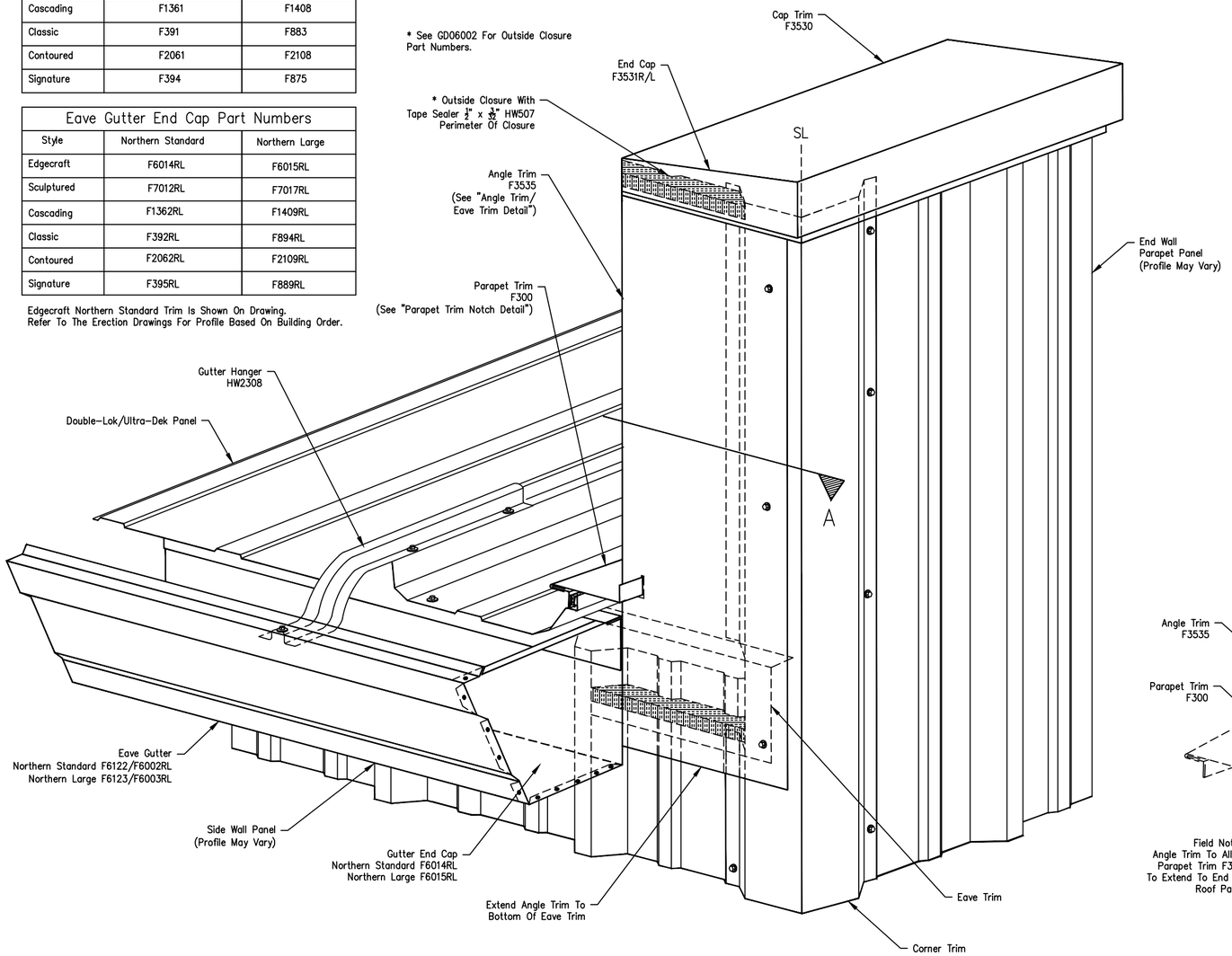
KE HU
LICENSE
No. 88271
STATE OF FLORIDA
PROFESSIONAL ENGINEER
May 06, 2025

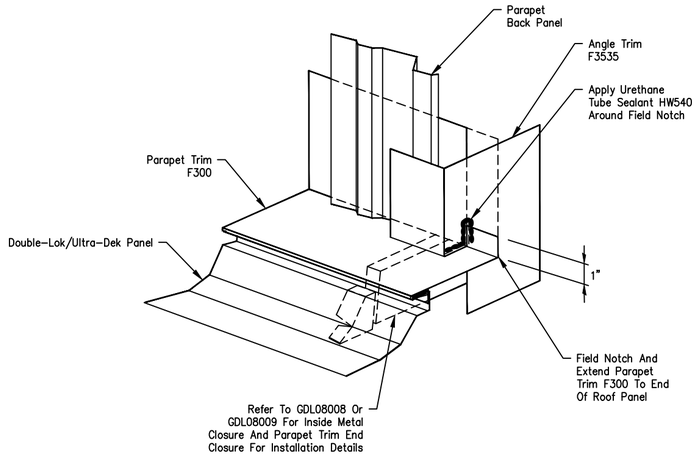
This item has been electronically signed and sealed by Ke Hu, P.E. on the date and/or time stamp shown using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified by a 3rd Party Certificate Authority on any electronic copy.

Eave Gutter Part Numbers		
Style	Northern Standard	Northern Large
Edgecraft	F6122/F6002RL	F6123/F6003RL
Sculptured	F7010/F7011RL	F7015/F7016RL
Cascading	F1361	F1408
Classic	F391	F883
Contoured	F2061	F2108
Signature	F394	F875

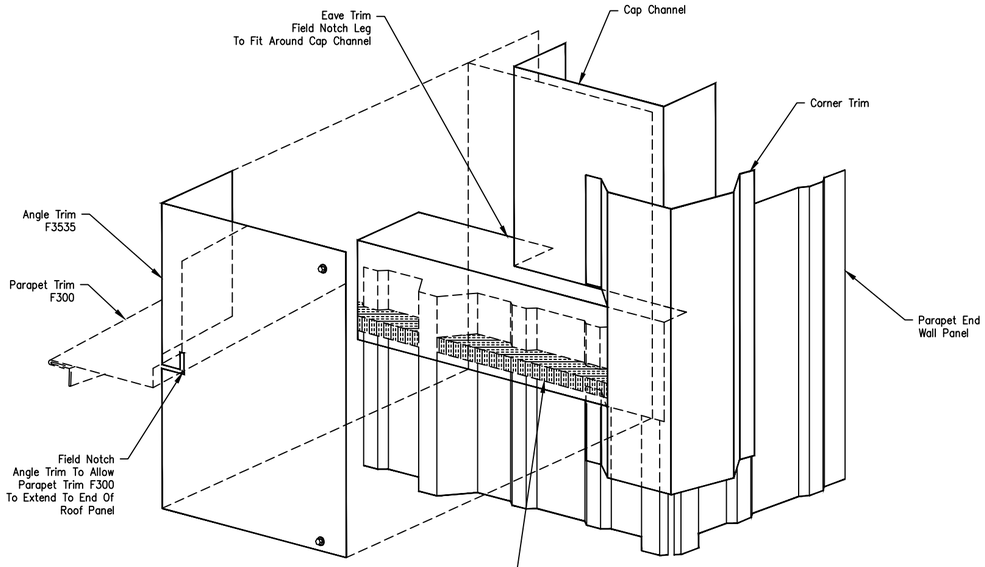
Eave Gutter End Cap Part Numbers		
Style	Northern Standard	Northern Large
Edgecraft	F6014RL	F6015RL
Sculptured	F7012RL	F7017RL
Cascading	F1362RL	F1409RL
Classic	F392RL	F894RL
Contoured	F2062RL	F2109RL
Signature	F395RL	F889RL

Edgecraft Northern Standard Trim Is Shown On Drawing.
Refer To The Erection Drawings For Profile Based On Building Order.

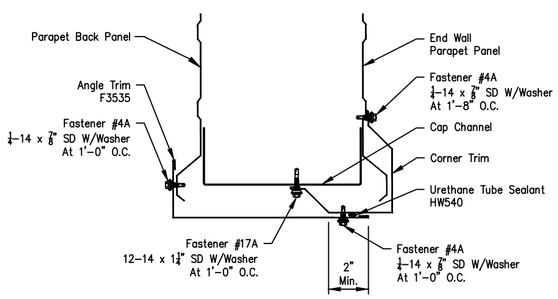




Parapet Trim Notch Detail



Angle Trim/Eave Trim Detail



Section A

End Wall Parapet Trim Termination At Low Eave Corner - Double-Lok / Ultra-Dek Roof - Northern Standard / Northern Large Eave Gutter

Page GDL23027
Date Jun '21
Rev 05

Revision	Date	Description	By	Ck'd

Cornerstone Building Brands
13105 Northwest Freeway, Suite 500
Houston, TX 77040
cornerstonebuildingbrands.com

Project Name & Location:
JM PHELPS CONSTRUCTION
300 SW WINDSWEPT GLN
LAKE CITY FL 32024-0694

Customer:
JM PHELPS CONSTRUCTION-
17760 BEACH PARK TRL
PANAMA CITY BEACH FL 324
JUSTIN PHELPS

☐ Issued For Approval (Not For Construction)
☐ Issued For Permit
☒ Issued For Construction

Drawing Status:

Scale: NOT TO SCALE
Drawn by:
Checked by:
Project Engineer:
Job Number: 19-B-90423-1
Sheet Number: R17 of 23

The engineer whose seal appears hereon is employed by or is contracted to provide engineering services for the manufacturer, Cornerstone Building Brands or one of its affiliates, 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.

KE HU, P.E.
FLORIDA P.E. 88271

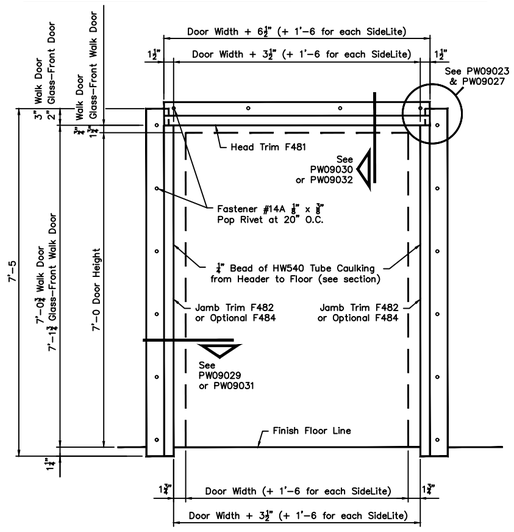
KE HU LICENSE No. 88271 STATE OF FLORIDA PROFESSIONAL ENGINEER
May 06, 2025

This item has been electronically signed and sealed by Ke Hu, P.E. on the date and/or time stamp shown using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified by a 3rd Party Certificate Authority on any electronic copy.

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

Page PW09022 | 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.



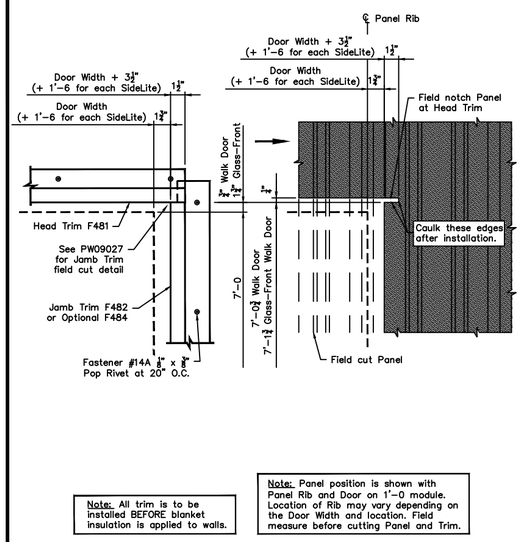
Note: All trim is to be installed BEFORE blanket insulation is applied to walls.

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.



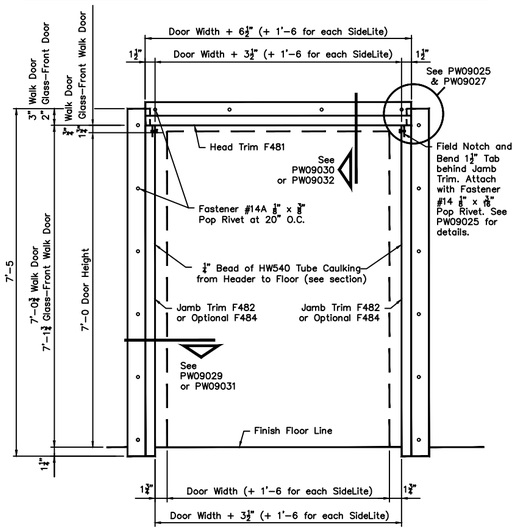
Note: All trim is to be installed BEFORE blanket insulation is applied to walls.

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

Page PW09024 | 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.



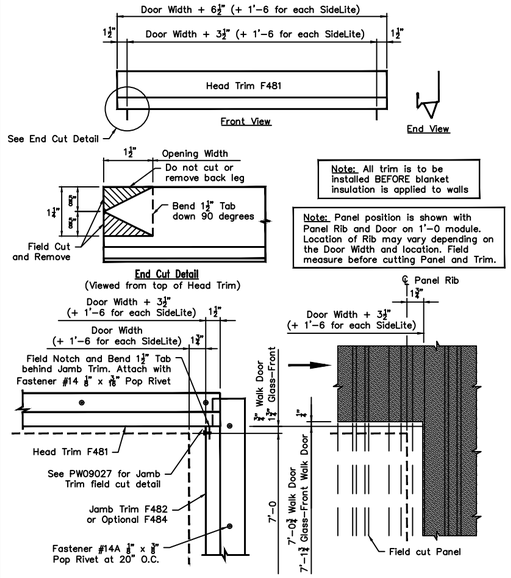
Note: All trim is to be installed BEFORE blanket insulation is applied to walls.

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 Bend Tabs at Head Trim

Page PW09025 | 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.

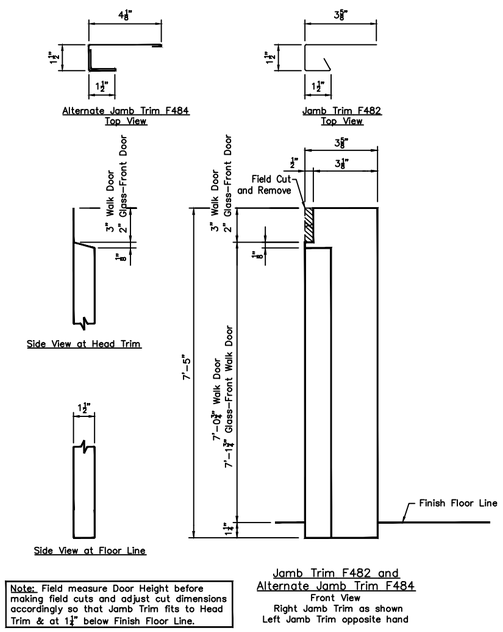


Note: All trim is to be installed BEFORE blanket insulation is applied to walls.

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 And Glass-Front Walk Door Jamb Trim Field Cut Details

Page PW09027 | Date Mar '20 | Rev 03

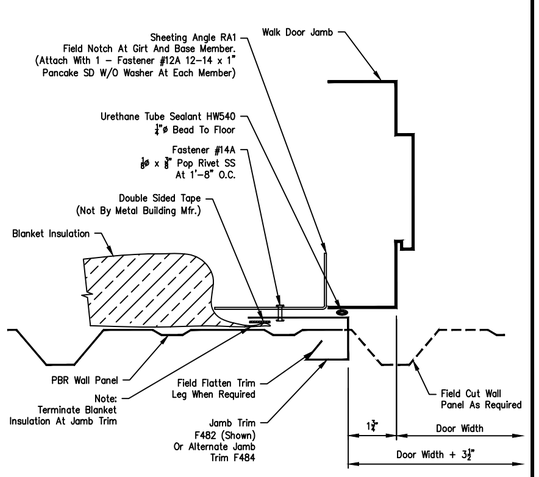


Jamb Trim F482 and Alternate Jamb Trim F484
Front View
Right Jamb Trim as shown
Left Jamb Trim opposite hand

Note: Field measure Door Height before making field cuts and adjust cut dimensions accordingly so that Jamb Trim fits to Head Trim & at 1½" below Finish Floor Line.

PBR Wall Panel - Knock Down Door Jamb Trim Installation

Page PW09031 | Date Mar '20 | Rev 07



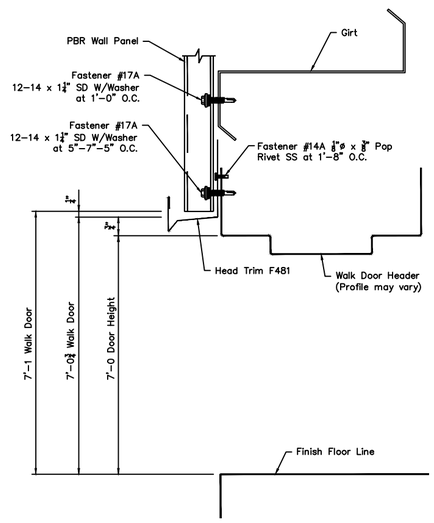
Alternate Jamb Trim F484

Note:
All Trim Is To Be Installed BEFORE Blanket Insulation Is Applied To Walls.

Location Of Panel Rib May Vary Depending On Door Width, Door Location And Panel Starting Location. Refer To Erection Drawings For Panel Layout. Field Measure Before Cutting Panel And Trim.

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

Page PW09032 | Date May '19 | Rev 03



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

Revision	Date	Description	By	Ck'd

Cornerstone Building Brands
13105 Northwest Freeway, Suite 500
Houston, TX 77040
cornerstonebuildingbrands.com

Project Name & Location:
JW PHELPS CONSTRUCTION
300 SW WINDSWEPT GLN
LAKE CITY FL 32024-0694

Customer:
JW PHELPS CONSTRUCTION-
17760 BEACH PARK TRL
PANAMA CITY BEACH FL 324
JUSTIN PHELPS

Drawing Status:
☐ Issued For Approval (Not For Construction)
☐ Issued For Permit
☒ Issued For Construction

Scale: NOT TO SCALE

Drawn by:

Checked by:

Project Engineer:

Job Number: 19-B-90423-1

Sheet Number: R18 of 23

The engineer whose seal appears hereon is employed by or is contracted to provide engineering services for the manufacturer, Cornerstone Building Brands or one of its affiliates, 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.

KE HU, P.E.
FLORIDA P.E. 88271

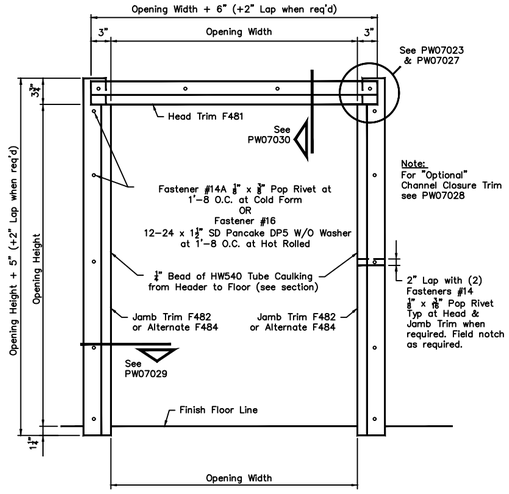
KE HU
LICENSE
No. 88271
STATE OF FLORIDA
PROFESSIONAL ENGINEER
May 06, 2025

This item has been electronically signed and sealed by Ke Hu, P.E. on the date and/or time stamp shown using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified by a 3rd Party Certificate Authority on any electronic copy.

PBR Wall Panel - Three Sided Framed Opening - Trim Installation with Field Notch Panel at Head Trim

Page PW07022 | 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.



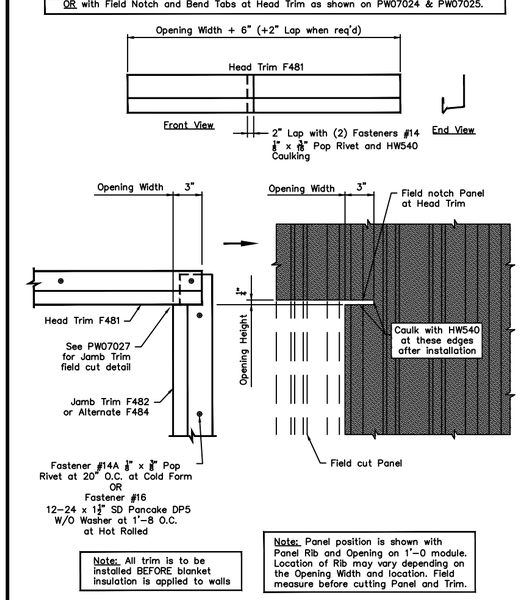
Note: All trim is to be installed BEFORE blanket insulation is applied to walls.

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

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

Page PW07023 | 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.



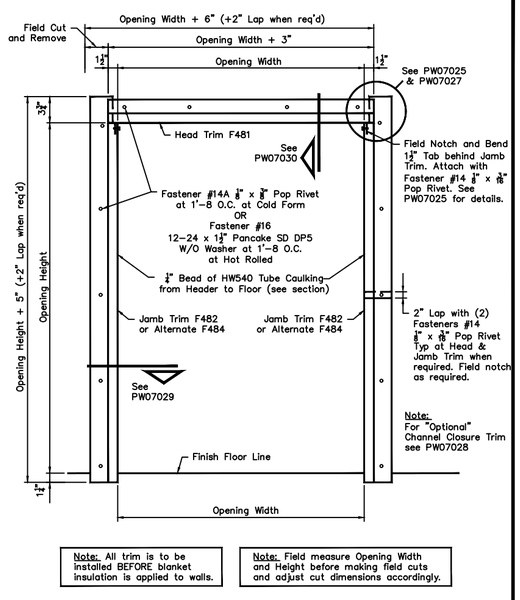
Note: All trim is to be installed BEFORE blanket insulation is applied to walls

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.

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

Page PW07024 | 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.



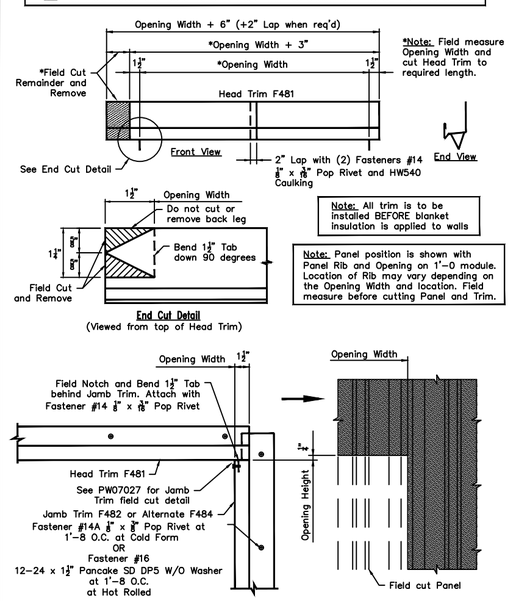
Note: All trim is to be installed BEFORE blanket insulation is applied to walls.

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

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

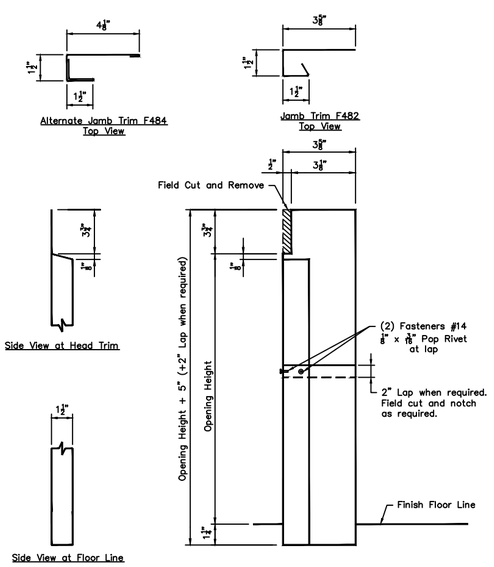
Page PW07025 | Date Mar '20 | Rev 05

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

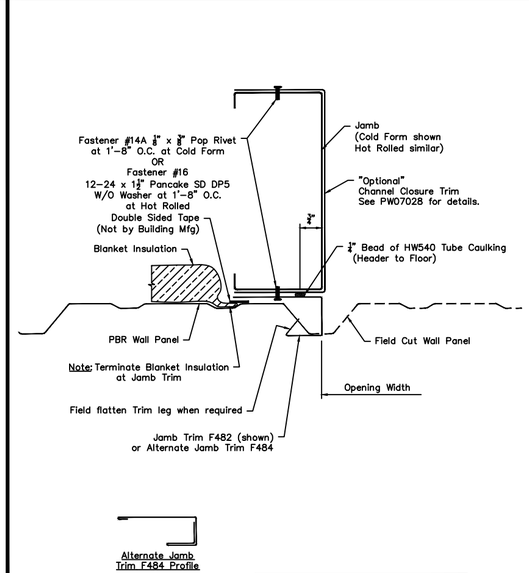
Page PW07027 | Date Mar '20 | Rev 04



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

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

Page PW07029 | Date Mar '20 | Rev 05

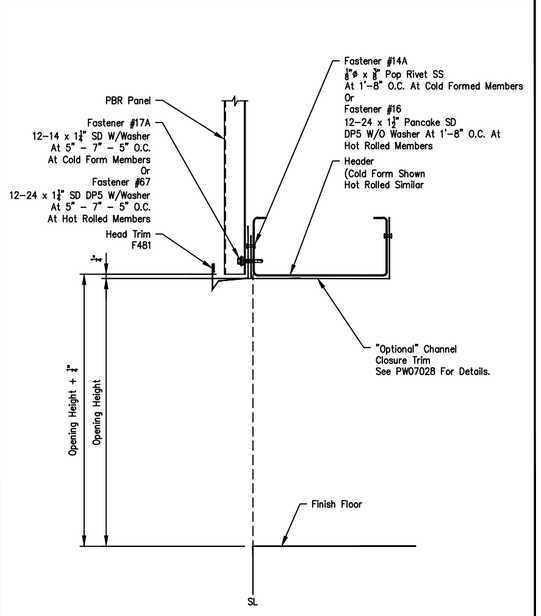


Note: All trim is to be installed BEFORE blanket insulation is applied to walls.

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.

PBR Wall Panel - Three Sided Framed Opening Head Trim Installation

Page PW07030 | Date Oct '19 | Rev 03



Revision	Date	By	Ck'd	Description

Cornerstone Building Brands
13105 Northwest Freeway, Suite 500
Houston, TX 77040
cornerstonebuildingbrands.com

Project Name & Location:
JW PHELPS CONSTRUCTION
300 SW WINDSWEPT GLN
LAKE CITY FL 32024-0694

☒ Issued For Construction

☐ Issued For Approval (Not For Construction)

☐ Issued For Permit

METALLIC BUILDING SYSTEMS — Part of the Cornerstone Building Brands Family

Customer:
JW PHELPS CONSTRUCTION-
17760 BEACH PARK TRL
PANAMA CITY BEACH FL 324
JUSTIN PHELPS

Drawing Status:

Scale: NOT TO SCALE

Drawn by:

Checked by:

Project Engineer:

Job Number: 19-B-90423-1

Sheet Number: R19 of 23

The engineer whose seal appears hereon is employed by or is contracted to provide engineering services for the manufacturer, Cornerstone Building Brands or one of its affiliates, 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.

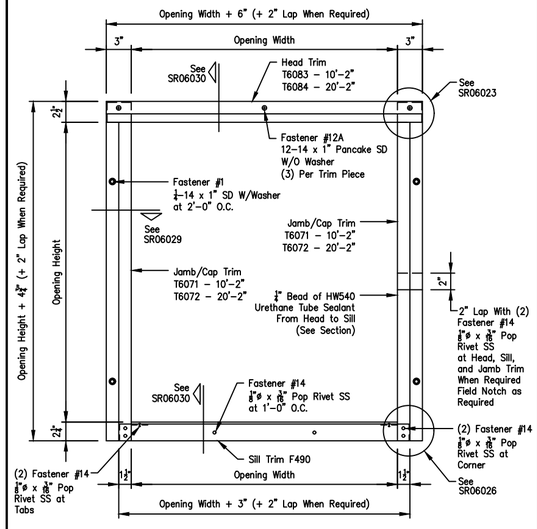
KE HU, P.E.
FLORIDA P.E. 88271

KE HU LICENSE No. 88271 STATE OF FLORIDA PROFESSIONAL ENGINEER
May 06, 2025

This item has been electronically signed and sealed by Ke Hu, P.E. on the date and/or time stamp shown using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified by a 3rd Party Certificate Authority on any electronic copy.

ShadowRib Panel - Four Sided Framed Opening Trim Installation

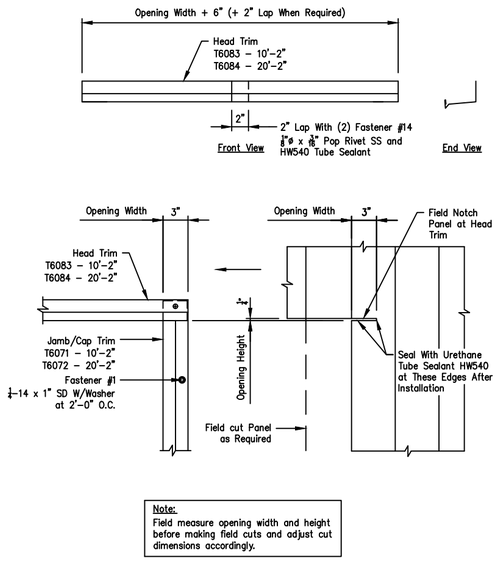
Page SR06022 | Date Jun '15 | Rev 00



Note:
Field measure opening width and height before making field cuts and adjust cut dimensions accordingly.

ShadowRib Panel - Four Sided Framed Opening Head Trim Preparation

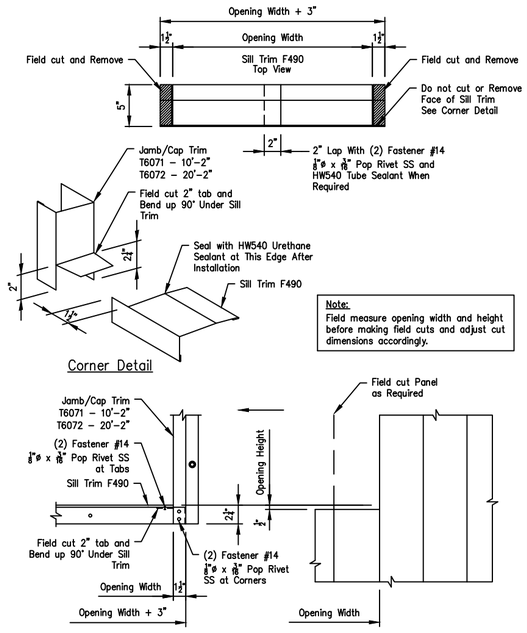
Page SR06023 | Date Jun '15 | Rev 00



Note:
Field measure opening width and height before making field cuts and adjust cut dimensions accordingly.

ShadowRib Panel - Four Sided Framed Opening Sill Trim Preparation

Page SR06026 | Date Jun '15 | Rev 00

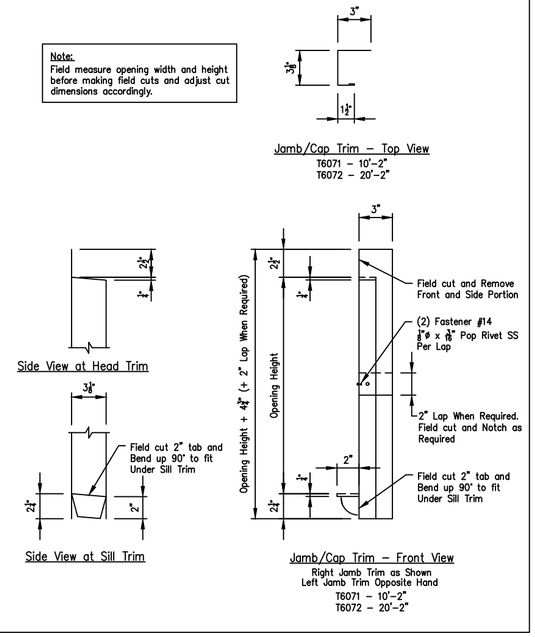


Note:
Field measure opening width and height before making field cuts and adjust cut dimensions accordingly.

ShadowRib Panel - Four Sided Framed Opening Jamb Trim Preparation

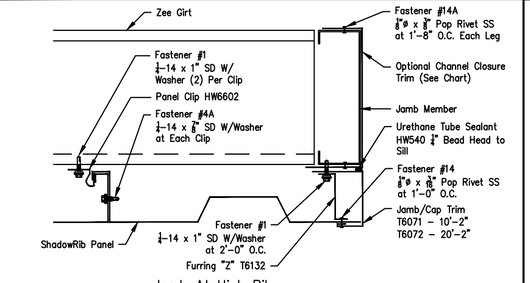
Page SR06027 | Date Jun '15 | Rev 00

Note:
Field measure opening width and height before making field cuts and adjust cut dimensions accordingly.

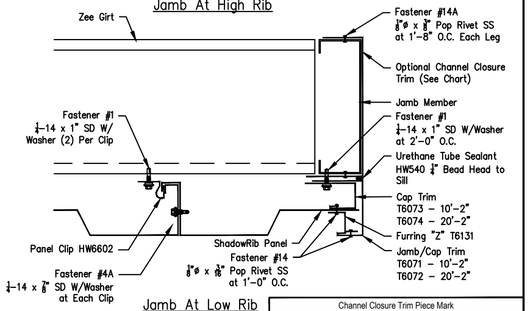


ShadowRib Panel - Four Sided Framed Opening Jamb Trim Installation

Page SR06029 | Date Jun '17 | Rev 01



Jamb At High Rib



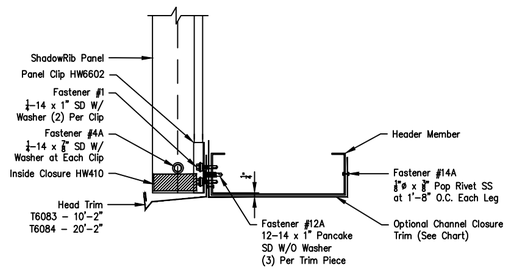
Jamb At Low Rib

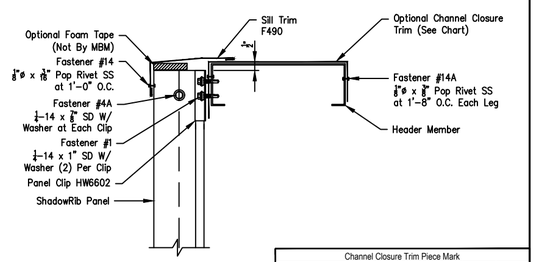
Channel Closure Trim Piece Mark						
Member Size	8"	8½"	10"	10½"	12"	12½"
Piece Mark	F981	F2994	F982	F2993	F169	F2995

Note: The interior leg of the installed Channel Closure Trim is to be oriented (± ⅛") to match the interior leg of the Header or Jamb.

ShadowRib Panel - Four Sided Framed Opening Head And Sill Trim Installation

Page SR06030 | Date Apr '23 | Rev 02





Channel Closure Trim Piece Mark						
Member Size	8"	8½"	10"	10½"	12"	12½"
Piece Mark	F981	F2994	F982	F2993	F169	F2995

Note: The interior leg of the installed Channel Closure Trim is to be oriented (± ⅛") to match the interior leg of the Header or Jamb.

Revision	Date	Description	By	Ck'd

Cornerstone Building Brands
13105 Northwest Freeway, Suite 500
Houston, TX 77040
cornerstonebuildingbrands.com

Project Name & Location:
JM PHELPS CONSTRUCTION
300 SW WINDSWEPT GLN
LAKE CITY FL 32024–0694

METALLIC BUILDING SYSTEMS
Part of the Cornerstone Building Brands Family

Customer:
JM PHELPS CONSTRUCTION–
17760 BEACH PARK TRL 324
PANAMA CITY BEACH FL 32413
JUSTIN PHELPS

Drawing Status:
☐ Issued For Approval (Not For Construction)
☐ Issued For Permit
☒ Issued For Construction

Scale:	NOT TO SCALE
Drawn by:	
Checked by:	
Project Engineer:	
Job Number:	19–B–90423–1
Sheet Number:	R20 of 23

The engineer whose seal appears hereon is employed by or is contracted to provide engineering services for the manufacturer, Cornerstone Building Brands or one of its affiliates, 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.

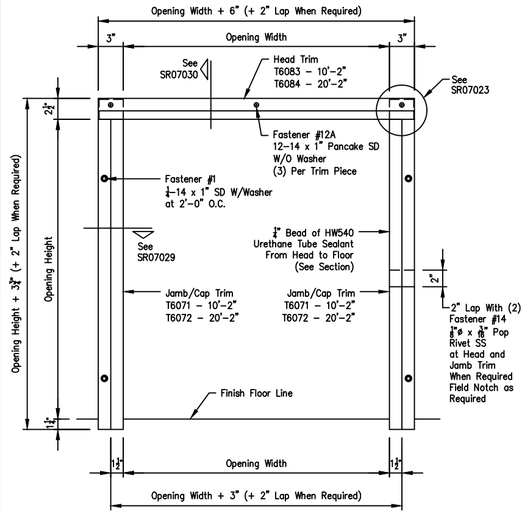
KE HU, P.E.
FLORIDA P.E. 88271

KE HU
LICENSE
No. 88271
STATE OF FLORIDA
PROFESSIONAL ENGINEER
May 06, 2025

This item has been electronically signed and sealed by Ke Hu, P.E. on the date and/or time stamp shown using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified by a 3rd Party Certificate Authority on any electronic copy.

ShadowRib Panel - Three Sided Framed Opening
Trim Installation

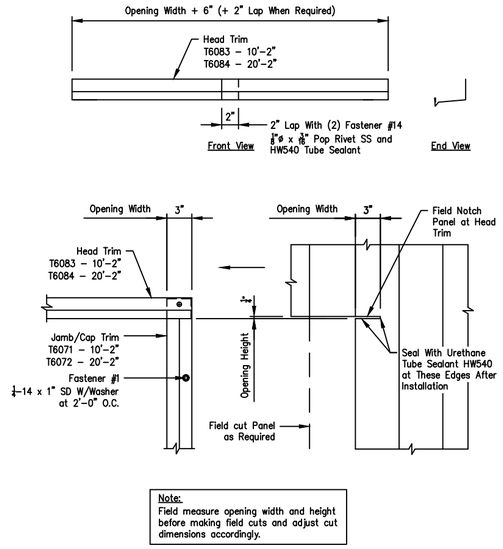
Page SR07022 | Date Jun '15 | Rev 00



Note:
Field measure opening width and height before making field cuts and adjust cut dimensions accordingly.

ShadowRib Panel - Three Sided Framed Opening
Head Trim Preparation

Page SR07023 | Date Jun '15 | Rev 00

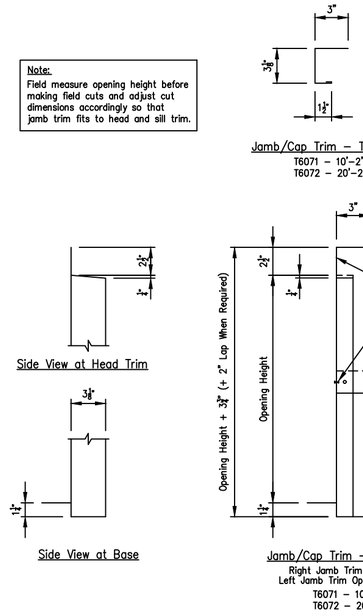


Note:
Field measure opening width and height before making field cuts and adjust cut dimensions accordingly.

ShadowRib Panel - Three Sided Framed Opening
Jamb Trim Preparation

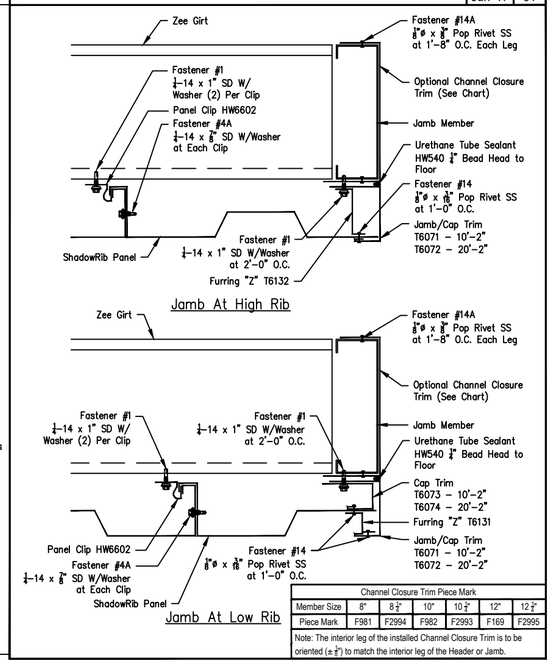
Page SR07027 | Date Jun '15 | Rev 00

Note:
Field measure opening height before making field cuts and adjust cut dimensions accordingly so that jamb trim fits to head and sill trim.



ShadowRib Panel - Three Sided Framed Opening
Jamb Trim Installation

Page SR07029 | Date Jun '17 | Rev 01

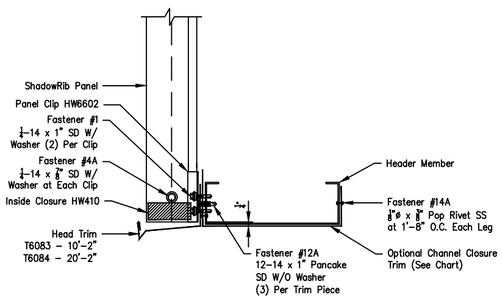


Channel Closure Trim Piece Mark						
Member Size	8"	8 ¼"	10"	10 ¼"	12"	12 ¼"
Piece Mark	F981	F2994	F982	F2993	F169	F2995

Note: The interior leg of the installed Channel Closure Trim is to be oriented (± ¼") to match the interior leg of the Header or Jamb.

ShadowRib Panel - Three Sided Framed Opening
Head Trim Installation

Page SR07030 | Date Jun '17 | Rev 01



Channel Closure Trim Piece Mark						
Member Size	8"	8 ¼"	10"	10 ¼"	12"	12 ¼"
Piece Mark	F981	F2994	F982	F2993	F169	F2995

Note: The interior leg of the installed Channel Closure Trim is to be oriented (± ¼") to match the interior leg of the Header or Jamb.

Revision	Date	By	Ck'd

Description

Cornerstone Building Brands
13105 Northwest Freeway, Suite 500
Houston, TX 77040
cornerstonebuildingbrands.com

Project Name & Location:
JM PHELPS CONSTRUCTION
300 SW WINDSWEPT GLN
LAKE CITY FL 32024-0694

METALLIC BUILDING SYSTEMS
Part of the Cornerstone Building Brands Family

Customer:
JM PHELPS CONSTRUCTION–
17760 BEACH PARK TRL
PANAMA CITY BEACH FL 324
JUSTIN PHELPS

Drawing Status:
☐ Issued For Approval (Not For Construction)
☐ Issued For Permit
☒ Issued For Construction

Scale: NOT TO SCALE
Drawn by:
Checked by:
Project Engineer:
Job Number: 19–B–90423–1
Sheet Number: R21 of 23

The engineer whose seal appears hereon is employed by or is contracted to provide engineering services for the manufacturer, Cornerstone Building Brands or one of its affiliates, 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.

KE HU, P.E.
FLORIDA P.E. 88271

KE HU LICENSE No. 88271 STATE OF FLORIDA PROFESSIONAL ENGINEER
May 06, 2025

This item has been electronically signed and sealed by Ke Hu, P.E. on the date and/or time stamp shown using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified by a 3rd Party Certificate Authority on any electronic copy.

Fasteners

Page G000004 | Date Jul '17 | Rev 05

Fastener #14

1/8" x 3/16"
Pop Rivet
Stainless Steel

Fastener #14A

1/8" x 3/8"
Pop Rivet
Stainless Steel

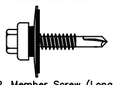
Fastener #24

8 x 5/8"
Nibbed Driller

Fastener #35

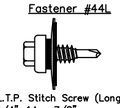
#14 x 1 1/8" O.D.
Bonded Washer

Fastener #43L



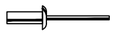
L.T.P. Member Screw (Long Life)
1/4"–14 x 1 1/4"
5/16" Hex Washer Head
W/ 1 1/8" O.D. Washer

Fastener #44L



L.T.P. Stitch Screw (Long Life)
1/4"–14 x 7/8"
5/16" Hex Washer Head
W/ 1 1/8" O.D. Washer

Fastener #226



3/16" x 9/16"
Closed End Rivet

Fastener #228

10 x 1/2"
Grommet Washer

Fastener #271

8–18 x 1/2"
Trim Screw

Fastener HW399

#6 x 1" Rubber Grommet
1/4" Hex Head w/ Washer

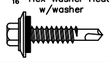
Note:
Refer to bill of materials for specific job requirements.

PBR, PBU, AVP, RBR And RBU Panel Fasteners

Page G000006 | Date Jun '23 | Rev 10

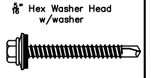
Wall Fasteners

Member Screw
Fastener #17A
12–14 x 1¼"
⅜" Hex Washer Head w/washer



Member Screw Optional
Fastener #17B
12–14 x 1½"
⅜" Hex Washer Head w/washer

Member Screw Optional
Fastener #28
12–14 x 2"
⅜" Hex Washer Head w/washer

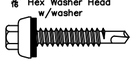


Stitch Screw
Fastener #4A
¼–14 x 7/8"
⅜" Hex Washer Head w/washer

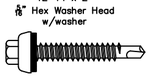
Roof Fasteners
Long Life (Optional at Wall)

Member Screw
Fastener #3
12–14 x 1½"
⅜" Hex Washer Head w/washer

Member Screw Optional
Fastener #3A
12–14 x 1½"
⅜" Hex Washer Head w/washer



Member Screw Optional
Fastener #58
12–14 x 2"
⅜" Hex Washer Head w/washer



Stitch Screw
Fastener #4
¼–14 x 7/8"
⅜" Hex Washer Head w/washer

NOTE: Refer to bill of materials for specific job requirements

Fasteners
BattenLok HS / SuperLok and Double-Lok / Ultra-Dek

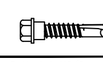
Page G000007 | Date Oct '22 | Rev 09

Structural Fastener (Fixed)
Fastener #1
¼"–14 x 1"
⅜" Hex Washer Head w/ Washer

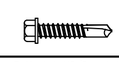
Roof Member Screw Long Life
Fastener #1E
¼"–14 x 1½"
⅜" Hex Washer Head w/ Washer

Roof Stitch Screw Long Life
Fastener #4
¼"–14 x ⅞"
⅜" Hex Washer Head w/ Washer

Structural Fastener (Floating)
Fastener #5
¼"–14 x 1½" Shoulder DP2
⅜" Hex Washer Head

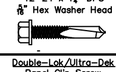


BattenLok HS/SuperLok Panel Clip Screw
Insulation < = 4" Material < ¾"
Fastener #1B
¼"–14 x 1½"
⅜" Hex Washer Head



BattenLok HS/SuperLok Panel Clip Screw
Insulation > 4" Material < ¾"
Fastener #142
¼"–14 x 1½" Driller
⅜" Hex Washer Head

BattenLok HS/SuperLok Panel Clip Screw
Insulation<=4" Material >=¾"
Fastener #55
12–24 x 1½" DP5
⅜" Hex Washer Head

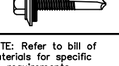


BattenLok HS/SuperLok Panel Clip Screw
Insulation > 4" Material > = ¾"
Fastener #70
12–24 x 1½" DP5
⅜" Hex Washer Head

Double-Lok/Ultra-Dek Panel Clip Screw
Insulation < =4" Material < ¾"
Fastener #1
¼"–14 x 1"
⅜" Hex Washer Head w/ Washer

Double-Lok/Ultra-Dek Panel Clip Screw
Insulation > 4" Material < ¾"
Fastener #1F
¼"–14 x 1½" Driller
⅜" Hex Washer Head w/ Washer

Double-Lok/Ultra-Dek Panel Clip Screw
Insulation < = 4" Material > = ¾"
Fastener #67
12–24 x 1½" DP5
⅜" Hex Washer Head w/ Washer



Double-Lok/Ultra-Dek Panel Clip Screw
Insulation > 4" Material > = ¾"
Fastener #69
12–24 x 1½" DP5
⅜" Hex Washer Head w/ Washer

Double-Lok/Ultra-Dek Panel Clip Screw W/TBA Bracing
Insulation ≤ 4" Material < ¾"
Fastener #1D
¼"–14 x 1½"
⅜" Hex Washer Head w/ Washer

NOTE: Refer to bill of materials for specific job requirements

Various Fasteners

Page G000009 | Date Nov '16 | Rev 11

Fastener #17
12–14 x 1" SD W/Washer
⅜" Hex Head

Fastener #38
¼–14 x ⅞" SD W/O Washer
⅜" Hex Head

Fastener #12A
12–14 x 1" Pancake SD W/O Washer

Fastener #55
12–24 x 1¼" SD DP5 W/O Washer
⅜" Hex Head

Fastener #70
12–24 x 1½" SD DP5 W/O Washer
⅜" Hex Head

Fastener #142
¼–14 x 1¼" SD W/O Washer
⅜" Hex Head

Fastener #76
12–14 x 2" SD W/O Washer
⅜" Hex Head

Fastener #61
12–14 x 1½" SD W/O Washer
⅜" Hex Head

Fastener #18
¼–14 x 1¼" SD W/O Washer
⅜" Hex Head

Fastener #16
12–24 x 1½" Pancake SD DP5 W/O Washer

NOTE:
Refer to Bill of Materials for Specific job Requirements

Fastener #46
¼–14 x ⅝" LL ST Type B W/Washer
⅜" Hex Head

Perimeter Trim Reference
Double-Lok / Ultra-Dek
Edgecraft Northern Standard Trim

Page TDL00003 | Date Jul '20 | Rev 00

	Gutter	Gutter Lap	Gutter Cap	Expansion Cover/Cap	Gutter Hanger
	F6122 – F6002RL	2" Lap	F6014RL	F6006/F6010	HW2308
	Fastener #4 ¼–14 x ⅞" LL SD W/Washer 1'–0" O.C. Roof Color	4'–4" Tube Sealant (12) Fastener #14 Trim Color	2'–2" Tube Sealant (12) Fastener #14 Trim Color	(9) Fastener #14 Trim Color	(2) Fastener #4 ¼–14 x ⅞" LL SD W/Washer Roof Color (1) Fastener #4 ¼–14 x ⅞" LL SD W/Washer Trim Color 5" Tube Sealant
1¼" Wall Panel	Rake	Rake Lap	Rake Cap (On Mod)	Rake Cap (Off Mod)	Peak Box
	F6528 – F6422RL	2" Lap	F2332/F6024RL	F2337RL/F6024RL	F6430
	Fastener #1E ¼–14 x 1⅛" LL SD W/Washer 2'–0" O.C. Trim Color	1'–4" Tube Sealant (4) Fastener #14 (2) Fastener #4 ¼–14 x ⅞" LL SD W/Washer Trim Color	1'–6" Tube Sealant (6) Fastener #14 Trim Color	9" Tube Sealant (6) Fastener #14 (3) Fastener #4 Trim Color (2) Fastener #1 1'–7" Tape Sealant	(3) Fastener #4A ¼–14 x ⅞" SD W/Washer Trim Color
1¼" Wall Panel	High Side	High Side Lap	Outside Corner	Inside Corner	Expansion Cover
	F6540 – F6482RL	2" Lap	Right as Shown	Field Work	High Side – F6507
	Fastener #4 ¼–14 x ⅞" LL SD W/Washer See GDL00100 for Spacing Fastener #4 ¼–14 x ⅞" SD W/Washer 1'–0" O.C. Trim Color	2'–5" Tube Sealant (11) Fastener #14 (3) Fastener #4 ¼–14 x ⅞" LL SD W/Washer Trim Color	2'–8" Tube Sealant (5) Fastener #14 (3) Fastener #4 ¼–14 x ⅞" LL SD W/Washer Trim Color	2'–8" Tube Sealant (5) Fastener #14 (3) Fastener #4 ¼–14 x ⅞" LL SD W/Washer Trim Color	7'–4" HW507 Tape Sealer (11) Fastener #14 (3) Fastener #4 ¼–14 x ⅞" LL SD W/Washer Trim Color
	Outside Corner	Inside Corner	Outside Corner	Inside Corner	
	Right as shown	Field Work	Field Work	Field Work	
	2'–8" Tube Sealant (20) Fastener #14 (3) Fastener #4 ¼–14 x ⅞" LL SD W/Washer Trim Color	2'–8" Tube Sealant (12) Fastener #14 Trim Color	2'–8" Tube Sealant (12) Fastener #14 Trim Color	2'–8" Tube Sealant (12) Fastener #14 Trim Color	

Perimeter Trim Reference
Double-Lok / Ultra-Dek
Edgecraft Trim Fastener and Sealants

Page TDL00008 | Date May '22 | Rev 01

	Eave Box Trim	Eave Trim Lap	Eave Box End Cap	Panel Clip	Closure (24")
	F6475	2" Lap	F6476RL	Varies	HW430
	Fastener #4 ¼–14 x ⅞" LL SD W/Washer 4" O.C. Roof Color Fastener #4A ¼–14 x ⅞" SD W/Washer 1'–0" O.C. Trim Color	(5) Fastener #14 1'–0" Tube Sealant	(6) Fastener #14 1'–4" Tube Sealant	Panel Clip Screw (2) Per Clip	(9) Fastener #1E ¼–14 x 1½" LL SD W/Washer Per Panel 4'–8" Tape Sealant
	Rake Trim End Closure	Slip Joint End	Ridge Flashing	Ridge Closure	Closure (18")
	F2337_L/R	F2805	F675	F679	HW432
	2'–6" Tape Sealant (2) Fastener #1 Trim Color	(4) Fastener #14 Trim Color	Fastener #4 ¼–14 x 1" LL SD W/Washer (See GDL00100 for spacing) (16) Per Lap Trim Color 5'–8" Tube Sealant	4'–0" Tube Sealant (12) Fastener #4 ¼–14 x ⅞" LL SD W/Washer Trim Color	(8) Fastener #1E ¼–14 x 1⅛" LL SD W/Washer Per Panel 4'–2" Tape Sealant
	Floating Simple Eave	Flat Eave Trim	Parapet High Side	Transverse Joint	
	F2952	F2955 = Standard F149 = Hi–Thermal	F326	F270	
	9" Tube Sealant Fastener #4A ¼–14 x ⅞" SD W/Washer 1'–0 O.C. (2) Fastener #14 per 2" Lap Trim Color	9" Tube Sealant for F2955 10" Tube Sealant for F149 (2) #14 per 2" Lap #14 3'–0" o.c. w/out Closure #14A 1'–0" o.c. w/Closure Trim Color	2'–8" Tube Sealant (2) Fastener #14 & (5) #4 1/4–14 x ⅞" LL SD W/Washer per Lap Fastener #4 1/4–14 x ⅞" LL SD W/Washer 1'–0" O.C Trim Color	1'–0" Tube Sealant (2) Fastener #4 (1) Fastener #1E ¼–14 x 1⅛" LL SD W/Washer per 2" Lap Fastener #1E 2'–0" o.c. Roof Color	
	Termination Trim	Parapet Rake Trim	Rake Cleat Trim	Rake Slide Trim	Back–up Plate
	F121	F300	F292	F215	
	1'–0" Tube Sealant (3) Fastener #4 ¼–14 x ⅞" LL SD W/Washer (1) Fastener #1E ¼–14 x 1⅛" LL SD W/Washer per 2" Lap Trim Color	2'–0" Tube Sealant (2) Fastener #14A (2) Fastener #4 ¼–14 x ⅞" LL SD W/Washer per 2" Lap Roof Color	4" Tube Sealant (1) Fastener #1E ¼–14 x 1⅛" LL SD W/Washer per 2" Lap Roof Color	Fastener #4A ¼–14 x ⅞" SD W/Washer 1'–0" O.C. Trim Color	2'–0" WIDE HW7760 1'–6" WIDE HW7769

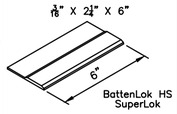
Tape Sealer And Tube Sealant

Page G000005 | Date Feb '24 | Rev 07

TRI–BEAD TAPE SEALER HW504
¹³⁄₁₆" X ⅞" X 25'–0"

FLAT TAPE SEALER HW507
1/32" X ½" X 50'–0"

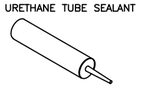
TAPE SEALER – SWAGED HW515
³⁄₁₆" X 2¼" X 6"



TRIPLE BEAD TAPE SEALER HW502
³⁄₁₆" X 2½" X 20'–0"

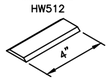
FLAT TAPE SEALER HW506
3/32" X 1" X 45'–0"

URETHANE TUBE SEALANT



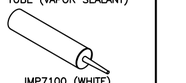
HW540 (White)
HW541 (Gray)
HW542 (Bronze)
Note: 25'–0" per Tube at 1/4" Bead

TAPE SEALER MINOR RIB HW512



7/32" X 1⅛" X 4"

NON–SKINNING BUTYL TUBE (VAPOR SEALANT)



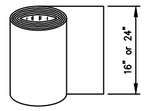
IMP7100 (WHITE)
12'–6" per Tube at 3/8" Bead
HW549 (WHITE)
25'–0" per Tube at 1/4" Bead

DEKSTRIP 7" WIDE = HW5227
DEKSTRIP 9" WIDE = HW5228
DEKSTRIP 12" WIDE = HW5229
DEKSTRIP 18" WIDE = HW5226
COLOR = Gray
SCREWS 2" O.C. MAX. PERIMETER
TAPE SEALER BOTH SIDES
URETHANE TUBE SEALANT HW540 EACH END
TERMINATION STRIP HW5305 EACH END (1" Wide x 4'–0" Long Alum.)

2" WIDE X 24 GA. STRAPPING

- FL471 – 100'–0" Roll Galvalume Plus Only
- FL569 – 500'–0" Roll Galvalume Plus or White Wash Coat

FLEXIBLE MEMBRANE (EPDM)



- HW520 – 16" x 50'–0" Roll
- HW521 – 24" x 50'–0" Roll

NOTE:
Refer to bill of materials for specific job requirements

Revision	Date	Description	By	Ck'd

Cornerstone Building Brands
13105 Northwest Freeway, Suite 500
Houston, TX 77040
cornerstonebuildingbrands.com

Project Name & Location:
JM PHELPS CONSTRUCTION
300 SW WINDSWEPT GLN
LAKE CITY FL 32024–0694

☒ Issued For Construction
☐ Issued For Approval (Not For Construction)
☐ Issued For Permit

METALLIC BUILDING SYSTEMS
Part of the Cornerstone Building Brands Family

Customer:
JM PHELPS CONSTRUCTION–
17760 BEACH PARK TRL
PANAMA CITY BEACH FL 324
JUSTIN PHELPS

Drawing Status:

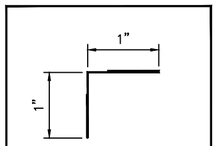
Scale: NOT TO SCALE
Drawn by:
Checked by:
Project Engineer:
Job Number: 19–B–90423–1
Sheet Number: R22 of 23

The engineer whose seal appears hereon is employed by or is contracted to provide engineering services for the manufacturer, Cornerstone Building Brands or one of its affiliates, 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.

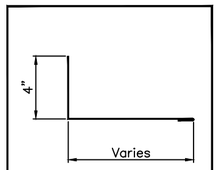
KE HU, P.E.
FLORIDA P.E. 88271

KE HU
LICENSE
No. 88271
STATE OF FLORIDA
PROFESSIONAL ENGINEER
May 06, 2025

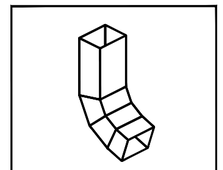
This item has been electronically signed and sealed by Ke Hu, P.E. on the date and/or time stamp shown using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified by a 3rd Party Certificate Authority on any electronic copy.

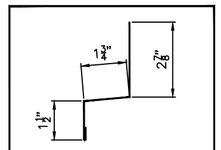


F292
Parapet Rake Cleat

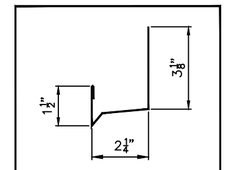


F300
Parapet Rake Trim

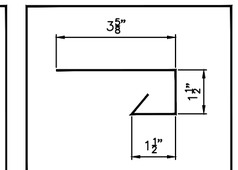

F321
Downspout Elbow



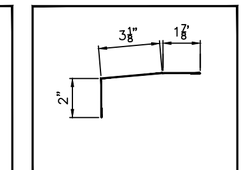
F406
Base Trim



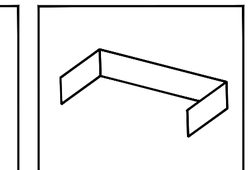
F481
Framed Opening Head Trim

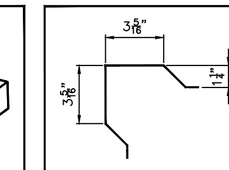


F482
Framed Opening Jamb Trim

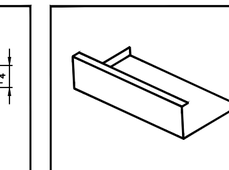


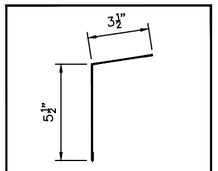
F490
Framed Opening Sill Trim


F797
Downspout Strap

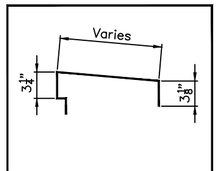


F830
Outside Corner Trim

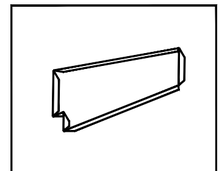

F2337
Rake Trim End Closure

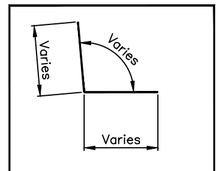


F2955
Flat Eave Trim

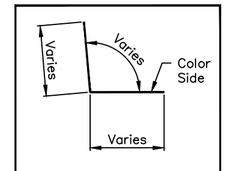


F3530
Parapet & Fascia Cap Trim

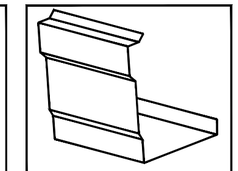

F3531
Parapet End Cap

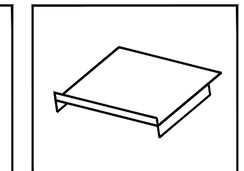


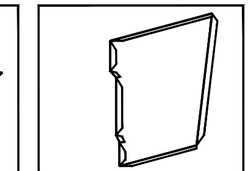
F3535
Angle Trim

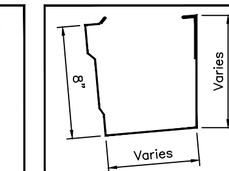


F3536
Angle Trim

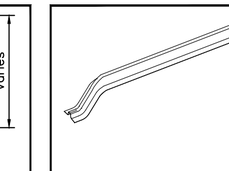

F6006
Gutter Expansion Cover

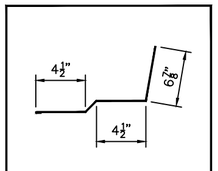

F6010
Gutter Expansion Cap


F6014RL
Gutter End Cap

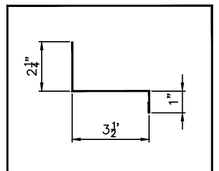


F6122
Gutter

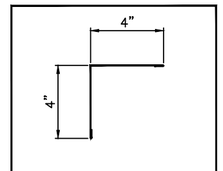

HW2308
Gutter Hanger



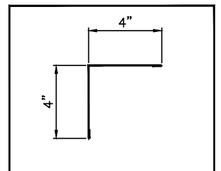
SP–1
Special Detailed Trim



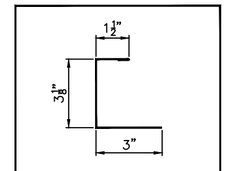
T6012
Base Trim



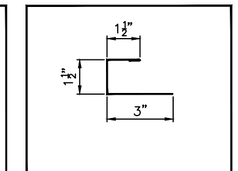
T6023
Outside Corner Trim



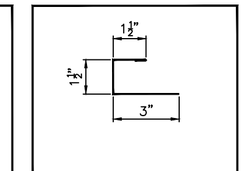
T6024
Outside Corner Trim



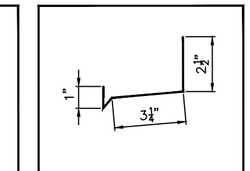
T6071
Cap/Jamb Trim



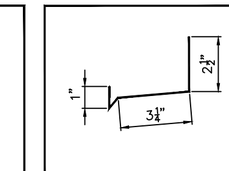
T6073
Cap/Jamb Trim



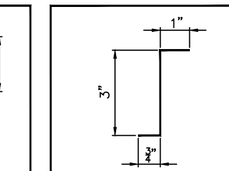
T6074
Cap/Jamb Trim



T6083
Head Trim



T6084
Head Trim



T6132
Furring Zee

Revision	Date	Description	By	Ck'd

Cornerstone Building Brands
13105 Northwest Freeway, Suite 500
Houston, TX 77040
cornerstonebuildingbrands.com

Project Name & Location:
JM PHELPS CONSTRUCTION
300 SW WINDSWEPT GLN
LAKE CITY FL 32024-0694

Customer:
JM PHELPS CONSTRUCTION-
17760 BEACH PARK TRL
PANAMA CITY BEACH FL 324
JUSTIN PHELPS

Drawing Status:
☐ Issued For Approval (Not For Construction)
☐ Issued For Permit
☒ Issued For Construction

Scale: NOT TO SCALE

Drawn by:

Checked by:

Project Engineer:

Job Number: 19-B-90423-1

Sheet Number: R23 of 23

The engineer whose seal appears hereon is employed by or is contracted to provide engineering services for the manufacturer, Cornerstone Building Brands or one of its affiliates, 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.

KE HU, P.E.
FLORIDA P.E. 88271

KE HU
LICENSE
No. 88271
STATE OF FLORIDA
PROFESSIONAL ENGINEER
May 06, 2025

This item has been electronically signed and sealed by Ke Hu, P.E. on the date and/or time stamp shown using a digital signature. Printed copies of this document are not considered signed and sealed and the signature must be verified by a 3rd Party Certificate Authority on any electronic copy.