HERITAGE
BUILDING SYSTEMS

Established 1979

ACCREDITED
AC 472

BUILDER/CONTRACTOR RESPONSIBILITIES

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

Builder Acceptance of Drawings – Approval of the manufacturer's drawings and design data affirms that the manufacturer has correctly interpreted and applied the requirements of the order documents and constitutes Builder/Contractor acceptance of the manufacturer's interpretations of the order documents and standard product specifications, including its design, fabrication and quality criteria standards and tolerances. (AISC code of standard practice Sept 86 Section 4.2.1) (Mar 05 Section 4.4.1)

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

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

Building Erection – The Builder/Contractor is responsible for all erection of the steel and associated work in compliance with the Metal Building Manufacturers drawings. Temporary supports, such as temporary guys, braces, false work or other elements required for erection will be determined, furnished and installed by the erector. (AISC Code of Standard Practice Sept 86 Section 7.9.1) (Mar 05 Section 7.10.3)

Discrepancies – Where discrepancies exist between the Metal Building plans and plans for other trades, the Metal Building plans will govern. (AISC Code of Standard Practice Sept 86 Section 3.3) (Mar 05 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)

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, ASTM A1011 SS, or ASTM A1011 HSLAS with a minimum yield point of 50 ksi. Material properties of hot rolled structural shapes conform to ASTM A992, ASTM A529, or ASTM A572 with a minimum specified yield point of 50 ksi. Hot rolled angles, or other than flange braces, conform to ASTM 36 minimum. Hollow structural shaped conform to ASTM A500 grade b, minimum yield point is 42 ksi for round HSS and 46 ksi for rectangular HSS. Material properties of cold form light gage steel members conform to the requirements of ASTM A1011 SS Grade 55 or ASTM A1011 HSLAS Class 1 Grade 55, with a minimum yield point of 55 ksi.

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

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

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

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

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

DESIGN LOADING

THIS STRUCTURE IS DESIGNED UTILIZING THE LOADS INDICATED AND APPLIED AS REQUIRED BY:

NCBC 2018

THE BUILDER IS TO CONFIRM THAT THESE LOADS COMPLY WITH THE REQUIREMENTS OF THE LOCAL BUILDING DEPARTMENT.

FRAME / ROOF DEAD LOAD
- SUPERIMPOSED: 2.010 PSF
- COLLATERAL (LIGHTS): 1 PSF

FRAME / ROOF LIVE LOAD: 20.00 PSF (REDUCIBLE)

RISK CATEGORY: II – Normal

SNOW LOAD
- GROUND SNOW LOAD (P_g): 15.000PSF
- SNOW LOAD IMPORTANCE FACTOR (I_s): 1.0000
- FLAT ROOF SNOW LOAD (P_f): 10.5 PSF
- SNOW EXPOSURE FACTOR (C_e): 1.0
- THERMAL FACTOR (C_t): 1.00

WIND LOAD
- ULTIMATE WIND SPEED: 117 MPH
- NOMINAL WIND SPEED (Vasd): 90.63 MPH (IBC SECTION 1609.3.1)
- WIND EXPOSURE CATEGORY: C
- TOPOGRAPHICAL FACTOR: 1.0
- INTERNAL PRESSURE COEFFICIENT (GCpi): 0.18 /-0.18
- ZONE 4, COMPONENT WIND LOAD ≤ 10FT²: 29.877 PSF PRESSURE –32.409 PSF SUCTION
- ZONE 5, COMPONENT WIND LOAD < 10FT²: 29.877 PSF PRESSURE –39.928 PSF SUCTION

ZONES PER ASCE 7-10; FIG. 30.4-1
ZONES PRESSURES SHOWN ARE UN-FACTORED

RAIN INTENSITY
- 5-MINUTE DURATION, 5-YEAR RECURRENCE (I1): 7.0600 IN/HOUR

SEISMIC LOAD
- SEISMIC IMPORTANCE FACTOR (I_e): 1.00
- S_s 0.1710, S_{DS} 0.1824
- S_1 0.0820, S_{D1} 0.1312
- SITE CLASS: D
- SEISMIC DESIGN CATEGORY: B

ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE

	TRANSVERSE	LONGITUDINAL FRONT	LONGITUDINAL BACK
BASIC FORCE RESISTING SYSTEM*	H	G2	H
RESPONSE MODIFICATION COEFFICIENT(R)	3	1.25	3
SYSTEM OVER-STRENGTH FACTOR(Ω_0)	2.5000	125	2.5000
SEISMIC RESPONSE COEFFICIENT(C_s)	0.061	0.146	0.061
BLDG DESIGN BASE SHEAR (V)	0.66 (k)	0.99 (k)	

THE TRANSVERSE DIRECTION IS PARALLEL TO THE RIGID FRAMES
THE LONGITUDINAL DIRECTION IS PERPENDICULAR TO THE RIGID FRAMES

BASIC FORCE RESISTING SYSTEM*
- C4. STEEL ORDINARY MOMENT FRAME
- B3. STEEL ORDINARY CONCENTRIC BRACED FRAMES
- H. STRUCTURAL STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
- G2. INVERTED PENDULUM SYSTEMS CANTILEVERED COLUMN SYSTEMS

DRAWING INDEX

DRAWING STATUS

☐ FOR APPROVAL
THESE DRAWINGS, BEING FOR APPROVAL, ARE BY DEFINITION NOT FINAL, AND ARE FOR CONCEPTUAL REPRESENTATION ONLY. THEIR PURPOSE IS TO CONFIRM PROPER INTERPRETATION OF THE PROJECT DOCUMENTS. ONLY DRAWINGS ISSUED "FOR ERECTOR INSTALLATION" CAN BE CONSIDERED AS COMPLETE.

☒ FOR CONSTRUCTION PERMIT
THESE DRAWINGS, BEING FOR PERMIT, ARE BY DEFINITION NOT FINAL. ONLY DRAWINGS ISSUED "FOR ERECTOR INSTALLATION" CAN BE CONSIDERED AS COMPLETE.

☐ FOR ERECTOR INSTALLATION
FINAL DRAWINGS FOR CONSTRUCTION.

FOR QUESTIONS OR ASSISTANCE CONCERNING ERECTION CALL:
1-800-643-5555
MONDAY – FRIDAY 7:30AM TO 5:00PM

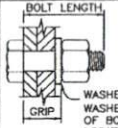
ENGINEERING SEAL

THIS CERTIFICATION COVERS PARTS MANUFACTURED AND DELIVERED BY THE MANUFACTURER ONLY, AND EXCLUDES PARTS SUCH AS DOORS, WINDOWS, FOUNDATION DESIGN AND ERECTION OF THE BUILDING.

THESE DRAWINGS AND THE METAL BUILDING SYSTEM THEY REPRESENT ARE THE PRODUCT OF AN AFFILIATE OF NCI GROUP, INC. – 10943 N. SAM HOUSTON PARKWAY W., HOUSTON, TX 77064. THE PROFESSIONAL ENGINEER WHOSE SEAL APPEARS HEREON IS EMPLOYED BY AN AFFILIATE OF NCI GROUP, INC. AND IS NOT THE ENGINEER-OF-RECORD FOR THE OVERALL PROJECT.

1/2"ø A325 BOLT GRIP TABLE

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



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.

Rev. 4/4/2017

BUILDING SIZE: 30'-0" x 50'-0" x 12'-0" 3.0:12

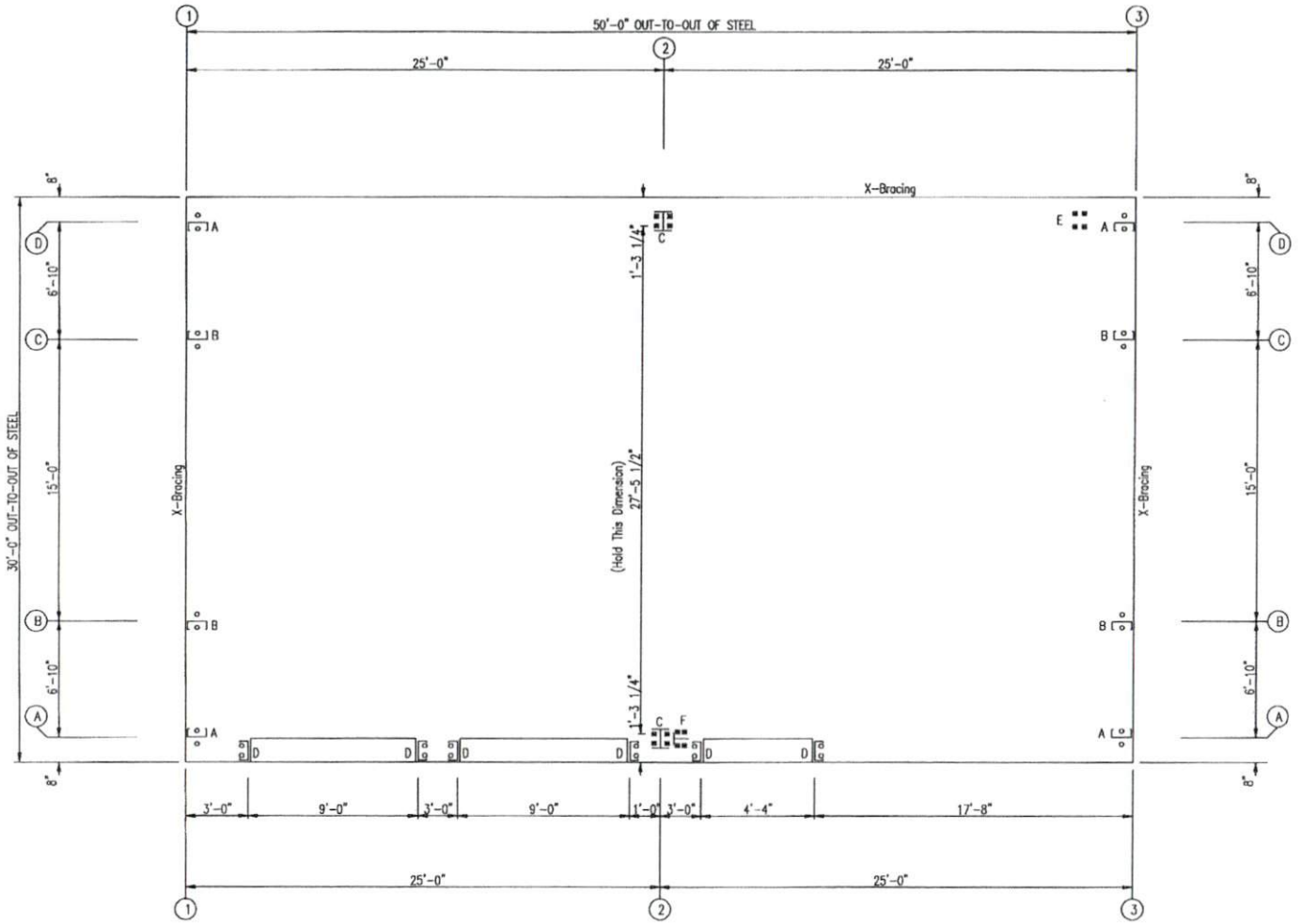
ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
A	2/28/19	FOR CONSTRUCTION PERMIT	GJO	HPD	MS

HERITAGE BUILDING SYSTEMS
Established 1979
2612 GRIBBLE STREET
NORTH LITTLE ROCK, AR 72114
1-800-643-5555

PROJECT: JUSTIN SMITH
CUSTOMER: JUSTIN SMITH
OWNER: JUSTIN SMITH
LOCATION: ANGIER, NC 27501

CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	2/28/19	N.T.S.	1	A	16-B-92135	C1	A

NORTH CAROLINA PROFESSIONAL SEAL 23122 ENGINEER LIDER LIANG
Mar 04 2019



ANCHOR BOLT PLAN

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
0	2/28/19	FOR ERECTOR INSTALLATION	GJO	HPD	MS

HERITAGE BUILDING SYSTEMS
Established 1979

2612 GRIDDLE STREET
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	2/28/19	N.T.S.	1	A	16-B-92135	F1	0

NORTH CAROLINA PROFESSIONAL SEAL 23122 ENGINEER LIDER LIANG
Mar 04, 2019

GENERAL 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. 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.
3. 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.
4. THE METAL BUILDING MANUFACTURER IS RESPONSIBLE FOR THE DESIGN OF THE ANCHOR BOLT DIAMETER ONLY TO PERMIT THE TRANSFER OF FORCES BETWEEN THE BASE PLATE AND THE ANCHOR BOLT IN SHEAR, BEARING AND TENSION, BUT IS NOT RESPONSIBLE FOR THE ANCHOR BOLT EMBEDMENT FOR TRANSFER OF FORCES TO THE FOUNDATION. THE METAL BUILDING MANUFACTURER DOES NOT DESIGN AND IS NOT RESPONSIBLE FOR THE DESIGN, MATERIAL AND CONSTRUCTION OF THE FOUNDATION EMBEDMENTS. THE END USE CUSTOMER SHOULD ASSURE HIMSELF THAT ADEQUATE PROVISIONS ARE MADE IN THE FOUNDATION DESIGN FOR LOADS IMPOSED BY COLUMN REACTIONS OF THE BUILDING, OTHER IMPOSED LOADS, AND BEARING CAPACITY OF THE SOIL AND OTHER CONDITIONS OF THE BUILDING SITE. IT IS RECOMMENDED THAT THE ANCHORAGE AND FOUNDATION OF THE BUILDING BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER EXPERIENCED IN THE DESIGN OF SUCH STRUCTURES. (SECTION A3 MBMA 2006 METAL BUILDING SYSTEMS MANUAL)
5. BOTTOM OF ALL BASE PLATES ARE AT THE SAME ELEVATION. (UNLESS NOTED)
6. ANCHOR RODS ARE ASTM F1554 GRADE 36 MATERIAL UNLESS NOTED OTHERWISE.

BUILDING BRACING REACTIONS

Wall Loc	Wall Line	Col Line	Reactions in plane of wall ± Reactions(k) Wind Horz	Wind Vert	Seismic Horz	Seismic Vert	Panel Shear (lb/ft) Wind	Seis	Note
L_EW	1	C,B	Bracing, see EW reactions						
F_SW	A	2							(g)
R_EW	3	B,C	Bracing, see EW reactions						
B_SW	D	3,2	2.0	"	0.3	"			

(g)Wind column at column line

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

WIND COLUMN REACTIONS

Wall Loc	Wall Line	Col Line	R/L	Load_ID	± Reactions Horz (k)	± Reactions Vert (k)	Moment (f-k)	Anc_Bolt Qty	Anc_Bolt Dia	Base_Plate(in) Width	Base_Plate(in) Length	Base_Plate(in) Thick
F_SW	A	2	R	Wind	2.0	21.5	22.4	4	0.750	6.000	8.000	0.625
				Seismic	0.7	7.6	7.9					

ENDWALL COLUMN: BASIC COLUMN REACTIONS (k)

Frm Line	Col Line	Dead Vert	Collat Vert	Live Vert	Snow Vert	Wind_Left1 Horz	Wind_Left1 Vert	Wind_Right1 Horz	Wind_Right1 Vert	Wind_Left2 Horz	Wind_Left2 Vert	Wind_Right2 Horz	Wind_Right2 Vert	Wind Press Horz
1	D	0.1	0.0	0.4	0.2	0.0	-0.5	0.0	-0.7	0.0	0.0	0.0	-0.2	0.0
1	C	0.4	0.2	3.4	1.8	1.6	-5.6	0.0	-1.5	1.6	-4.3	0.0	-0.2	-1.6
1	B	0.4	0.2	3.4	1.8	0.0	-1.5	1.6	-5.6	0.0	-0.2	1.6	-4.3	-1.6
1	A	0.1	0.0	0.4	0.2	0.0	-0.7	0.0	-0.5	0.0	-0.2	0.0	0.0	-0.5

Frm Line	Col Line	Wind Suct Horz	Wind_Long1 Horz	Wind_Long1 Vert	Wind_Long2 Horz	Wind_Long2 Vert	Seis_Left Horz	Seis_Left Vert	Seis_Right Horz	Seis_Right Vert	--MIN_SNOW-- Horz	--MIN_SNOW-- Vert	E1UNB_SL_L- Horz	E1UNB_SL_L- Vert
1	D	0.0	0.0	-0.7	0.0	-0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.1
1	C	1.8	0.0	-3.8	0.5	-3.3	0.2	-0.1	0.0	0.1	0.0	2.6	0.0	2.2
1	B	1.8	0.5	-3.3	0.0	-3.6	0.0	0.1	0.2	-0.1	0.0	2.6	0.0	1.0
1	A	0.6	0.0	-0.3	0.0	-0.7	0.0	0.0	0.0	0.0	0.0	0.3	0.0	-0.1

Frm Line	Col Line	E1UNB_SL_R- Horz	E1UNB_SL_R- Vert
1	D	0.0	-0.1
1	C	0.0	1.0
1	B	0.0	2.2
1	A	0.0	0.1

Frm Line	Col Line	Dead Vert	Collat Vert	Live Vert	Snow Vert	Wind_Left1 Horz	Wind_Left1 Vert	Wind_Right1 Horz	Wind_Right1 Vert	Wind_Left2 Horz	Wind_Left2 Vert	Wind_Right2 Horz	Wind_Right2 Vert
3	A	0.1	0.0	0.4	0.2	0.0	-0.5	0.0	-0.7	0.0	0.0	0.0	-0.2
3	B	0.4	0.2	3.4	1.8	1.6	-5.6	0.0	-1.5	1.6	-4.3	0.0	-0.2
3	C	0.4	0.2	3.4	1.8	0.0	-1.5	1.6	-5.6	0.0	-0.2	1.6	-4.3
3	D	0.1	0.0	0.4	0.2	0.0	-0.7	0.0	-0.5	0.0	-0.2	0.0	0.0

Frm Line	Col Line	Wind_Press Horz	Wind_Suct Horz	Wind_Suct Vert	Wind_Long1 Horz	Wind_Long1 Vert	Wind_Long2 Horz	Wind_Long2 Vert	Seis_Left Horz	Seis_Left Vert	Seis_Right Horz	Seis_Right Vert	Seis_Long Horz	Seis_Long Vert
3	A	0.0	0.0	0.0	0.0	-0.7	0.0	-0.3	0.0	0.0	0.0	0.0	0.0	0.0
3	B	-1.6	0.0	1.8	0.0	-3.6	0.5	-3.3	0.2	-0.1	0.0	0.1	0.0	0.0
3	C	-1.6	0.0	1.8	0.0	-3.3	0.0	-3.6	0.0	0.1	0.2	-0.1	0.0	0.0
3	D	0.0	-0.8	0.0	0.0	-0.3	0.0	-0.7	0.0	0.0	0.0	0.0	-0.3	-0.1

Frm Line	Col Line	--MIN_SNOW-- Horz	--MIN_SNOW-- Vert	E2UNB_SL_L- Horz	E2UNB_SL_L- Vert	E2UNB_SL_R- Horz	E2UNB_SL_R- Vert
3	A	0.0	0.3	0.0	0.1	0.0	-0.1
3	B	0.0	2.6	0.0	2.2	0.0	1.0
3	C	0.0	2.6	0.0	1.0	0.0	2.2
3	D	0.0	0.3	0.0	-0.1	0.0	0.1

NOTES FOR REACTIONS

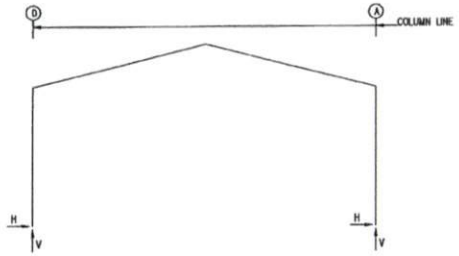
BUILDING REACTIONS ARE BASED ON THE FOLLOWING BUILDING DATA:

WIDTH (FT)	= 30
LENGTH (FT)	= 50
EAVE HEIGHT (FT)	= 12 / 12
ROOF SLOPE (rise/12)	= 3.0:12 / 3.0:12
DEAD LOAD (psf)	= 2.010
COLLATERAL LOAD (psf)	= 1
ROOF LIVE LOAD (psf)	= 20.00
FRAME LIVE LOAD (psf)	= 12
ROOF SNOW LOAD (psf)	= 10.5
GROUND SNOW LOAD (psf)	= 15.0000
WIND SPEED (MPH)	= 117
WIND CODE	= IBC 15
EXPOSURE	= C
CLOSED/OPEN	= Closed
IMPORTANCE - WIND	= 1.00
IMPORTANCE - SEISMIC	= 1.00
SEISMIC ZONE	= B

REACTION KEY:

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

FRAME LINES: 2



RIGID FRAME: ANCHOR BOLTS & BASE PLATES

Frm Line	Col Line	Anc_Bolt Qty	Anc_Bolt Dia	Base_Plate (in) Width	Base_Plate (in) Length	Thick	Grout (in)
2	D	4	0.750	6.000	10.50	0.375	0.0
2	A	4	0.750	6.000	10.50	0.625	0.0

RIGID FRAME: BASIC COLUMN REACTIONS (k)

Frame Line	Column Line	Dead Horiz	Dead Vert	Collateral Horiz	Collateral Vert	Live Horiz	Live Vert	Snow Horiz	Snow Vert	Wind_Left1 Horiz	Wind_Left1 Vert	Wind_Right1 Horiz	Wind_Right1 Vert
2	D	0.4	1.3	0.2	0.5	1.9	5.6	1.6	4.9	-5.8	-10.9	1.5	-6.5
2	A	-0.4	1.3	-0.2	0.5	-1.9	5.6	-1.6	4.9	-1.5	-6.5	5.8	-10.9

Frame Line	Column Line	--Wind_Left2-- Horiz	--Wind_Left2-- Vert	--Wind_Right2-- Horiz	--Wind_Right2-- Vert	--Wind_Long1-- Horiz	--Wind_Long1-- Vert	--Wind_Long2-- Horiz	--Wind_Long2-- Vert	-Seismic_Left Horiz	-Seismic_Left Vert	Seismic_Right Horiz	Seismic_Right Vert
2	D	-6.2	-6.7	1.1	-2.3	0.9	-8.8	-0.1	-8.7	-0.2	-0.1	0.2	0.1
2	A	-1.1	-2.3	6.2	-6.7	0.1	-29.4	-0.9	-30.5	-0.2	0.1	0.2	-0.1

Frame Line	Column Line	-Seismic_Long Horiz	-Seismic_Long Vert	--MIN_SNOW-- Horiz	--MIN_SNOW-- Vert	F1UNB_SL_L- Horiz	F1UNB_SL_L- Vert	F1UNB_SL_R- Horiz	F1UNB_SL_R- Vert
2	D	0.0	-0.1	2.3	7.0	1.5	5.0	1.5	3.0
2	A	0.0	-7.6	-2.3	7.0	-1.5	3.0	-1.5	5.0

ENDWALL COLUMN: ANCHOR BOLTS & BASE PLATES

Frm Line	Col Line	Anc_Bolt Qty	Anc_Bolt Dia	Base_Plate (in) Width	Base_Plate (in) Length	Thick	Grout (in)
1	D	2	0.625	7.000	8.000	0.250	0.0
1	C	2	0.625	7.000	8.000	0.250	0.0
1	B	2	0.625	7.000	8.000	0.250	0.0
1	A	2	0.625	7.000	8.000	0.250	0.0
3	A	2	0.625	7.000	8.000	0.250	0.0
3	B	2	0.625	7.000	8.000	0.250	0.0
3	C	2	0.625	7.000	8.000	0.250	0.0
3	D	2	0.625	7.000	8.000	0.250	0.0

ANCHOR BOLT SUMMARY

Qty	Locate	Dia (in)	Type	Proj (in)
O 12	Jamb	5/8"	F1554	2.00
O 16	Endwall	5/8"	F1554	2.00
88 8	Frame	3/4"	F1554	2.50
88 4	WindCol	3/4"	F1554	2.50
88 4	WindSent	3/4"	F1554	2.50

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
0	2/28/19	FOR ERECTOR INSTALLATION	GJO	HPD	MS

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CUSTOMER: JUSTIN SMITH
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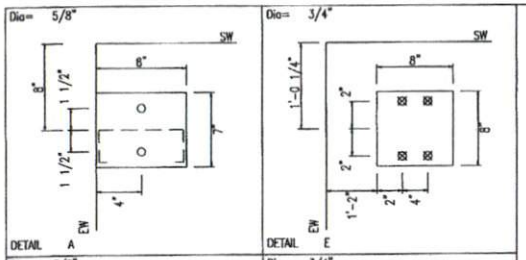
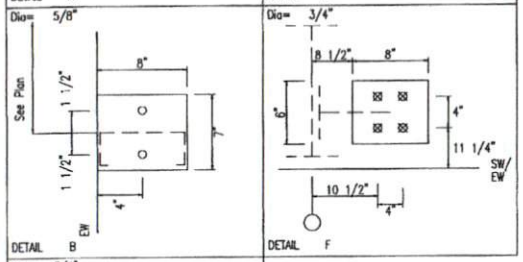
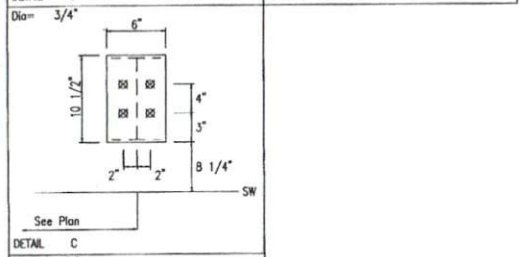
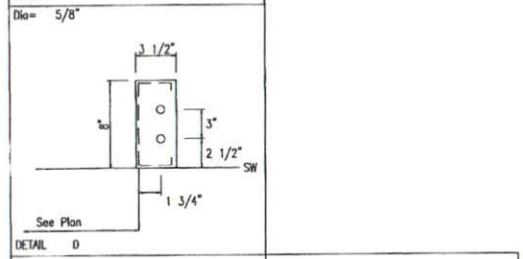
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	2/28/19	N.T.S.	1	A	16-B-92135	F2	0

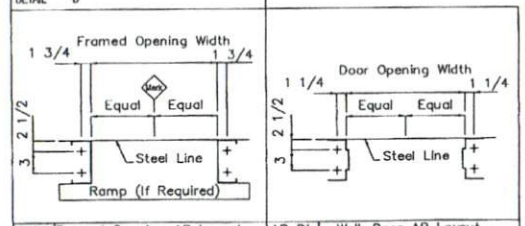
NORTH CAROLINA PROFESSIONAL SEAL 23122 ENGINEER LIDER LIANG
Mar 05 2019











ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
0	2/28/19	FOR ERECTOR INSTALLATION	GJO	MPD	MS

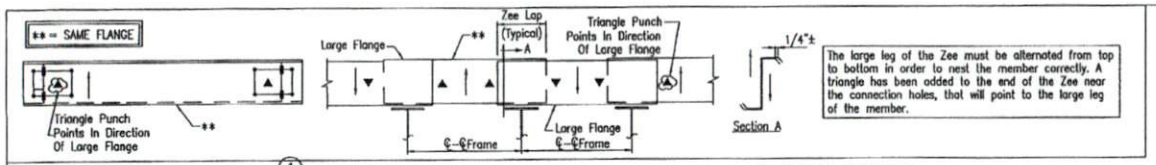
HERITAGE
BUILDING SYSTEMS
Established 1979

2612 GRIDDLE STREET
NORTH LITTLE ROCK, AR 72114
1-800-643-5555

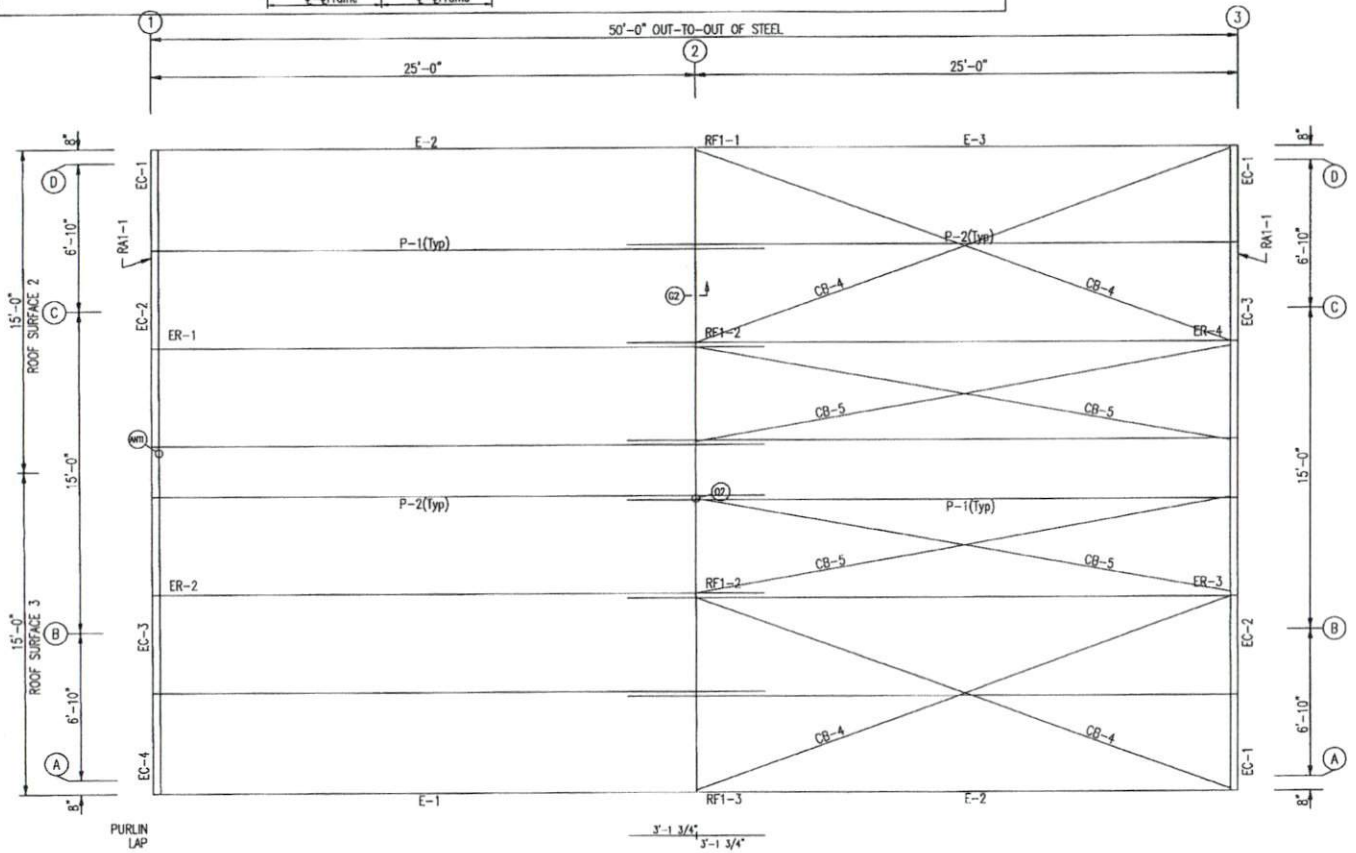
PROJECT: JUSTIN SMITH
CUSTOMER: JUSTIN SMITH
OWNER: JUSTIN SMITH
LOCATION: ANGIER, NC 27501

CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	2/28/19	N.T.S.	1	A	16-B-92135	F3	0

NORTH CAROLINA PROFESSIONAL SEAL 23122 ENGINEER LIDER LIANG
Mar 04, 2019



MEMBER TABLE ROOF PLAN		
MARK	PART	LENGTH
P-1	8X25Z14	28'-1 1/2"
P-2	8X25Z14	28'-1 1/2"
E-1	8ES3L14	24'-11 1/2"
E-2	8ES3L14	24'-11 1/2"
E-3	8ES3L14	24'-11 1/2"
CB-4	1/4" CABLE	26'-6"
CB-5	1/4" CABLE	25'-8"



ROOF FRAMING PLAN

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
A	2/28/19	FOR CONSTRUCTION PERMIT	GJO	HPD	MS

HERITAGE BUILDING SYSTEMS
Established 1979

2612 GIBBLE STREET
NORTH LITTLE ROCK, AR 72114
1-800-643-5555

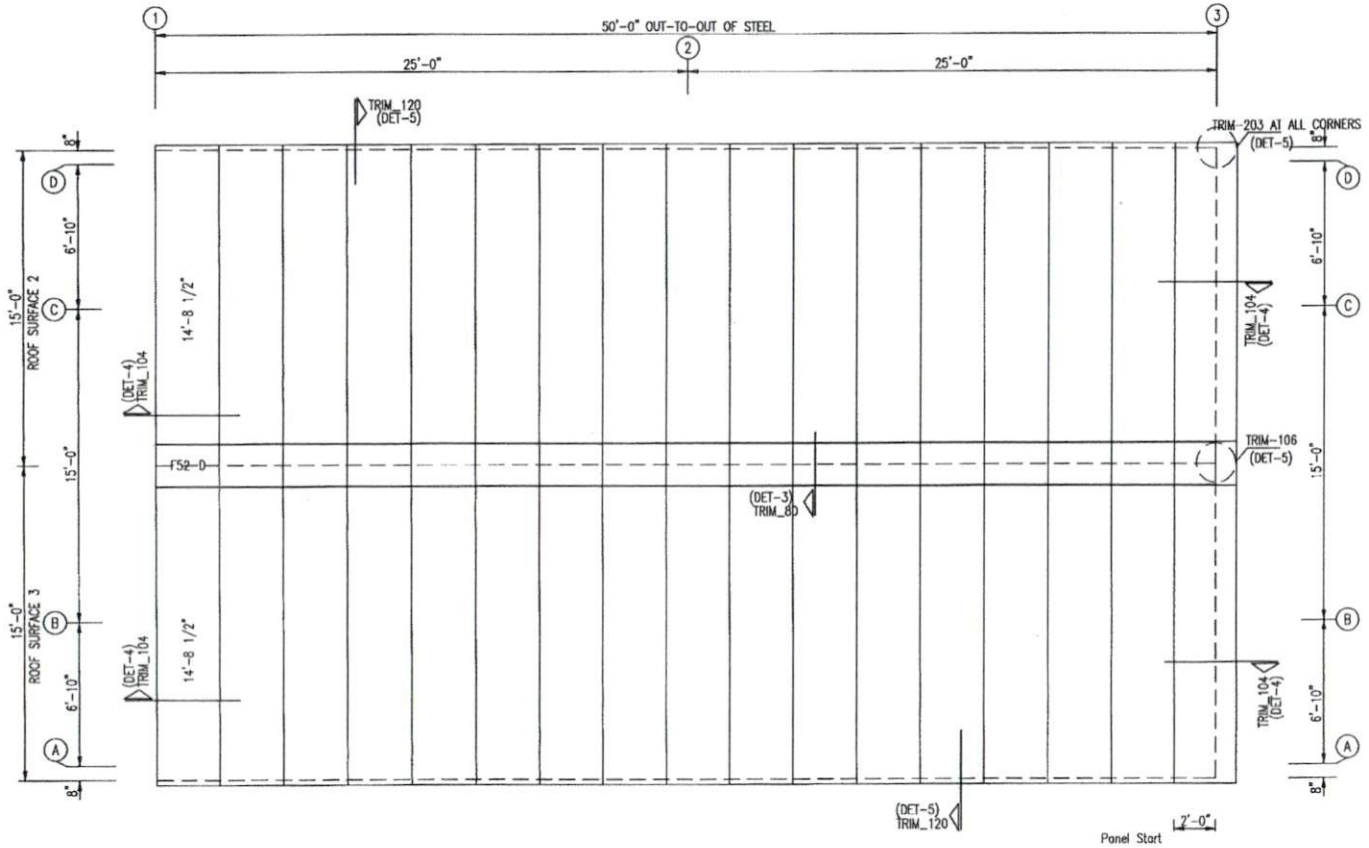
PROJECT: JUSTIN SMITH
CUSTOMER: JUSTIN SMITH
OWNER: JUSTIN SMITH
LOCATION: ANGIER, NC 27501

CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	2/28/19	N.T.S.	1	A	16-B-92135	E1	A

NORTH CAROLINA PROFESSIONAL SEAL 23122 ENGINEER LIDER LIANG
Mar 04 2019

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

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



ROOF SHEETING PLAN

PANELS: 26 Gauge PBR – Charcoal Gray

GENERAL NOTES:

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

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
A	2/28/19	FOR CONSTRUCTION PERMIT	GJO	HPD	MS

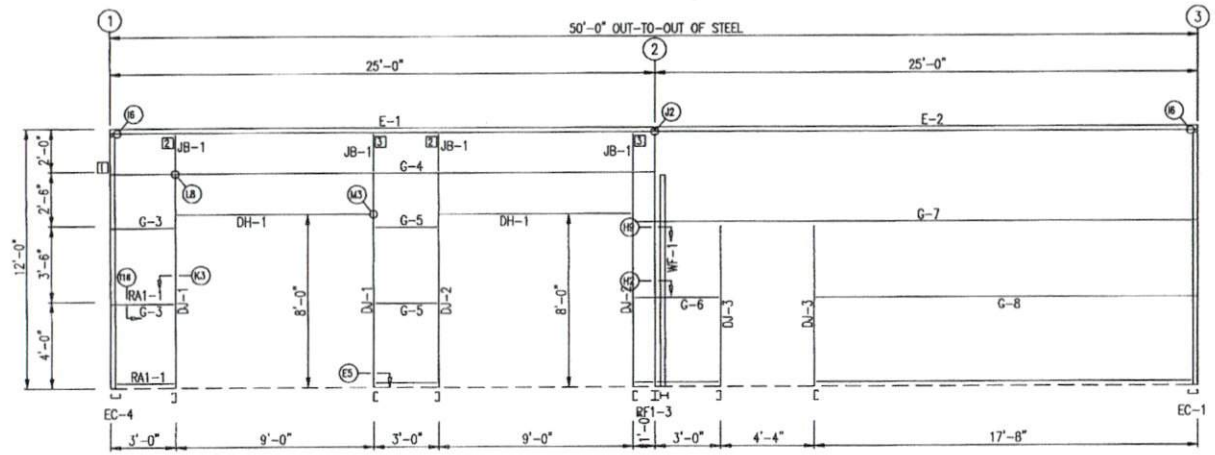
HERITAGE BUILDING SYSTEMS
Established 1979

2612 GRIBBLE STREET
NORTH LITTLE ROCK, AR 72114
1-800-643-5555

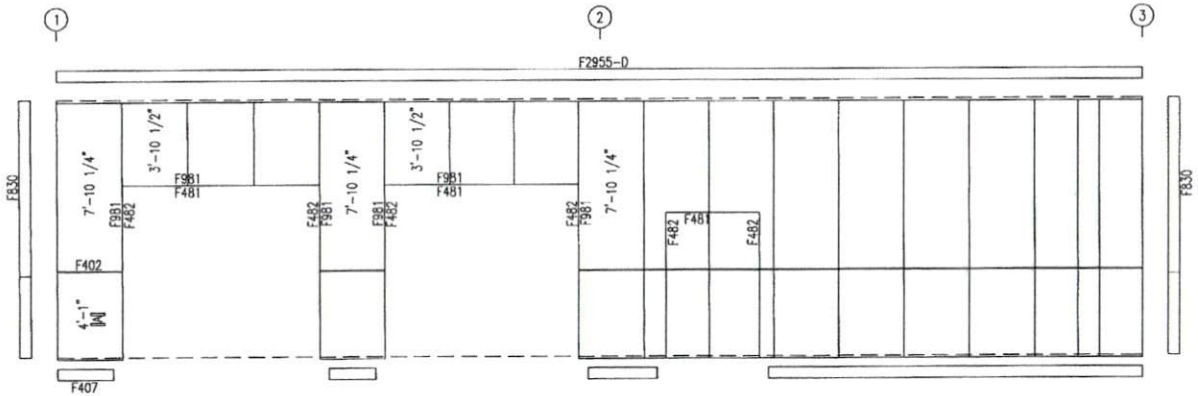
PROJECT: JUSTIN SMITH
CUSTOMER: JUSTIN SMITH
OWNER: JUSTIN SMITH
LOCATION: ANGIER, NC 27501

CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	2/28/19	N.T.S.	1	A	16-B-92135	E2	A

NORTH CAROLINA PROFESSIONAL SEAL 23122 ENGINEER LIDER LIANG
Mar 08, 2019



SIDEWALL FRAMING: FRAME LINE A



SIDEWALL SHEETING & TRIM: FRAME LINE A

PANELS: 26 Gauge PBR – Ash Gray

[A] PANELS: 26 Gauge PBR – Charcoal Gray

BOLT TABLE
FRAME LINE A

LOCATION	QUAN	TYPE	DIA	LENGTH
WF-1 – RF1-3	8	A325	5/8"	1 1/2"

MEMBER TABLE
FRAME LINE A

MARK	PART	LENGTH
WF-1	W12643	10'-0"
DJ-1	8F35C14	10'-0"
DJ-2	8F35C12	10'-0"
DJ-3	8F25C16	7'-6"
DH-1	8F35C14	9'-0"
E-1	8ES3L14	24'-11 1/2"
E-2	8ES3L14	24'-11 1/2"
G-3	8X25Z16	2'-8"
G-4	8X35Z13	25'-3 1/2"
G-5	8X25Z16	2'-4 1/2"
G-6	8X25Z16	3'-5 1/2"
G-7	8X25Z13	25'-8"
G-8	8X25Z16	17'-5"
JB-1	8F35C12	10 15/16"

CONNECTION PLATES
FRAME LINE A

ID	MARK/PART
1	SC-5
2	SCS86_L
3	SCS86_R

GENERAL NOTES:

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

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
A	2/28/19	FOR CONSTRUCTION PERMIT	GJO	HPD	MS

HERITAGE BUILDING SYSTEMS
Established 1979

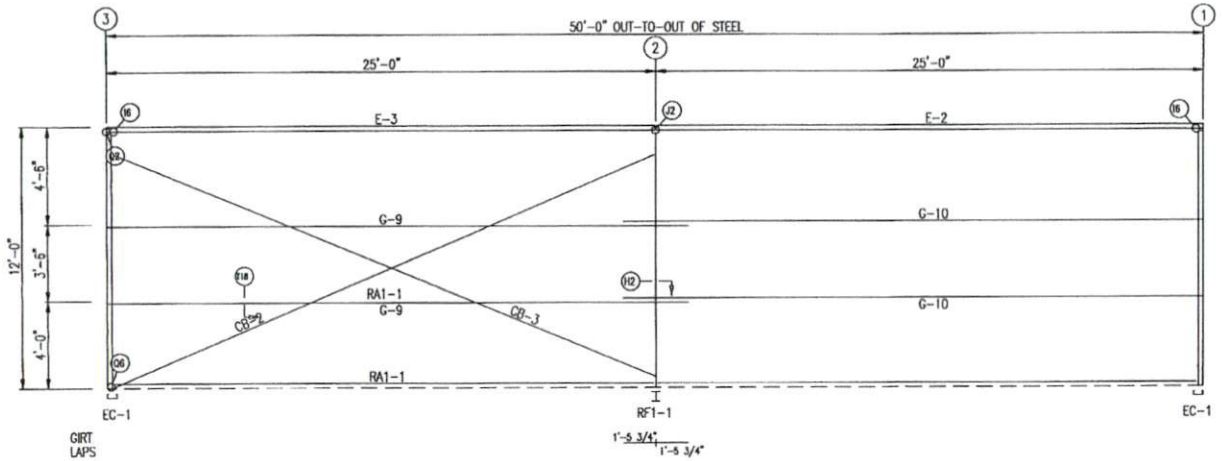
2612 GRIDDLE STREET
NORTH LITTLE ROCK, AR 72114
1-800-843-5555

PROJECT: JUSTIN SMITH
CUSTOMER: JUSTIN SMITH
OWNER: JUSTIN SMITH
LOCATION: ANGIER, NC 27501

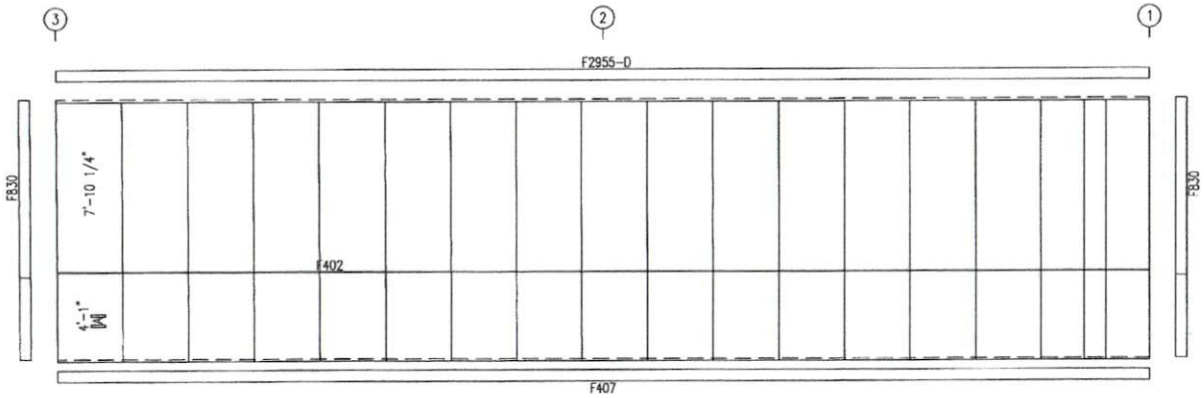
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	2/28/19	N.T.S.	1	A	16-B-92135	E3	A

NORTH CAROLINA PROFESSIONAL SEAL 23122 ENGINEER LIDER LIANG
Mar 05 2019

MEMBER TABLE FRAME LINE D		
MARK	PART	LENGTH
E-2	8ES3L14	24'-11 1/2"
E-3	8ES3L14	24'-11 1/2"
G-9	8X25Z16	26'-5 1/2"
G-10	8X25Z16	26'-5 1/2"
CB-2	1/4" CABLE	26'-3"
CB-3	1/4" CABLE	27'-7"



SIDEWALL FRAMING: FRAME LINE D



SIDEWALL SHEETING & TRIM: FRAME LINE D

PANELS: 26 Gauge PBR - Ash Gray

[A] PANELS: 26 Gauge PBR - Charcoal Gray

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

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
A	2/28/19	FOR CONSTRUCTION PERMIT	GJO	HPD	MS

HERITAGE BUILDING SYSTEMS
Established 1979

2612 GRABLE STREET
NORTH LITTLE ROCK, AR 72114
1-800-643-5555

PROJECT: JUSTIN SMITH
CUSTOMER: JUSTIN SMITH
OWNER: JUSTIN SMITH
LOCATION: ANGIER, NC 27501

CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	2/28/19	N.T.S.	1	A	16-B-92135	E4	A

NORTH CAROLINA PROFESSIONAL SEAL 23122 ENGINEER LIDER LIANG
Mar 05 2019

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

BOLT TABLE
FRAME LINE 1

LOCATION	QUAN	TYPE	DIA	LENGTH
ER-1/ER-2	4	A325	5/8"	1 3/4"
Columns/Rof	4	A325	1/2"	1 1/4"

MEMBER TABLE
FRAME LINE 1

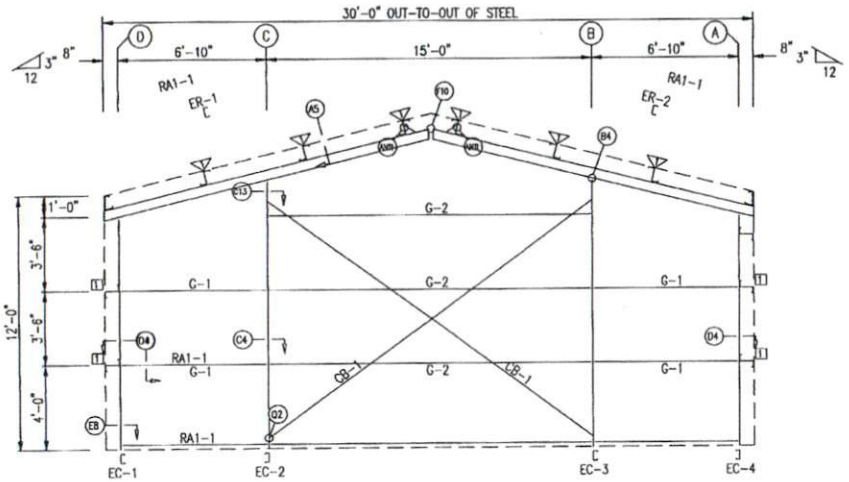
MARK	PART	LENGTH
EC-1	8F25C14	10'-8 1/4"
EC-2	8F25C16	12'-4 3/4"
EC-3	8F25C16	12'-4 3/4"
EC-4	8F25C14	10'-8 1/4"
ER-1	8F35C14	15'-5 5/16"
ER-2	8F35C14	15'-5 5/16"
G-1	8X25Z16	6'-2"
G-2	8X25Z16	14'-11 1/2"
CB-1	1/4" CABLE	19'-4"

FLANGE BRACE TABLE
FRAME LINE 1

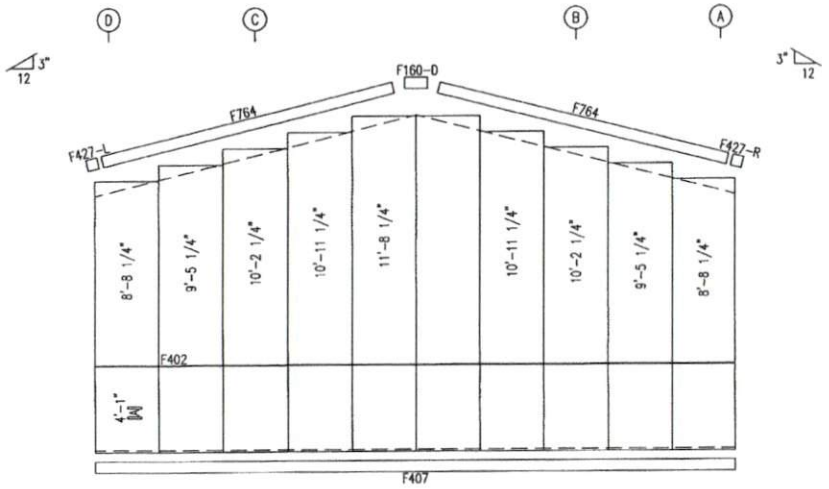
▽ ID	PART	LENGTH
FB29.3	L2X2X14G	2'-5 1/4"

CONNECTION PLATES
FRAME LINE 1

ID	MARK/PART
1	SC-5



ENDWALL FRAMING: FRAME LINE 1



ENDWALL SHEETING & TRIM: FRAME LINE 1

PANELS: 26 Gauge PBR - Ash Gray

PANELS: 26 Gauge PBR - Charcoal Gray

GENERAL NOTES:

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

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
A	2/28/19	FOR CONSTRUCTION PERMIT	GJO	HPD	MS

HERITAGE BUILDING SYSTEMS
Established 1979

2812 GRIBBLE STREET
NORTH LITTLE ROCK, AR 72114
1-800-643-5555

PROJECT: JUSTIN SMITH
CUSTOMER: JUSTIN SMITH
OWNER: JUSTIN SMITH
LOCATION: ANGIER, NC 27501

CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	2/28/19	N.T.S.	1	A	16-B-92135	E5	A

NORTH CAROLINA PROFESSIONAL SEAL 23122 ENGINEER LIDER LIANG
Mar 04 2019

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

BOLT TABLE
FRAME LINE 3

LOCATION	QUAN	TYPE	DIA	LENGTH
ER-3/ER-4	4	A325	5/8"	1 3/4"
Columns/Raf	4	A325	1/2"	1 1/4"

MEMBER TABLE
FRAME LINE 3

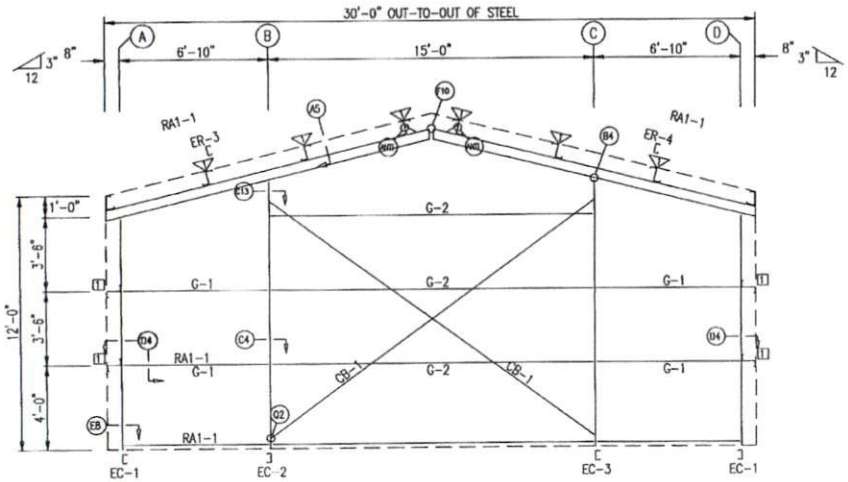
MARK	PART	LENGTH
EC-1	8F25C14	10'-8 1/4"
EC-2	8F25C16	12'-4 3/4"
EC-3	8F25C16	12'-4 3/4"
ER-3	8F35C14	15'-5 5/16"
ER-4	8F35C14	15'-5 5/16"
G-1	8X25Z16	6'-2"
G-2	8X25Z16	14'-11 1/2"
CB-1	1/4" CABLE	19'-4"

FLANGE BRACE TABLE
FRAME LINE 3

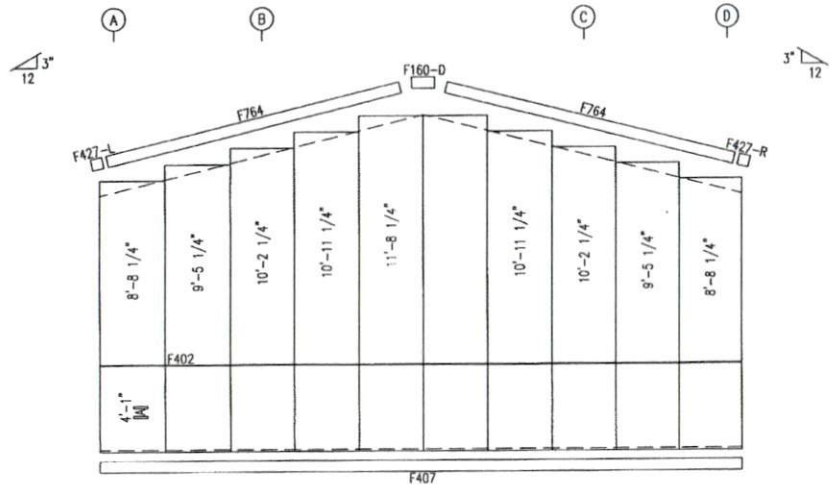
▽ ID	PART	LENGTH
FB29.3	L2X2X14G	2'-5 1/4"

CONNECTION PLATES
FRAME LINE 3

ID	MARK/PART
1	SC-5



ENDWALL FRAMING: FRAME LINE 3



ENDWALL SHEETING & TRIM: FRAME LINE 3

PANELS: 26 Gauge PBR - Ash Gray

PANELS: 26 Gauge PBR - Charcoal Gray

GENERAL NOTES:

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

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
A	2/28/19	FOR CONSTRUCTION PERMIT	GJO	HPD	MS

HERITAGE BUILDING SYSTEMS
Established 1979

2612 GRIDDLE STREET
NORTH LITTLE ROCK, AR 72114
1-800-643-5556

PROJECT: JUSTIN SMITH
CUSTOMER: JUSTIN SMITH
OWNER: JUSTIN SMITH
LOCATION: ANGIER, NC 27501

CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	2/28/19	N.T.S.	1	A	16-B-92135	E6	A

NORTH CAROLINA PROFESSIONAL SEAL 23122 ENGINEER LIDER LIANG
Mar 05 2019

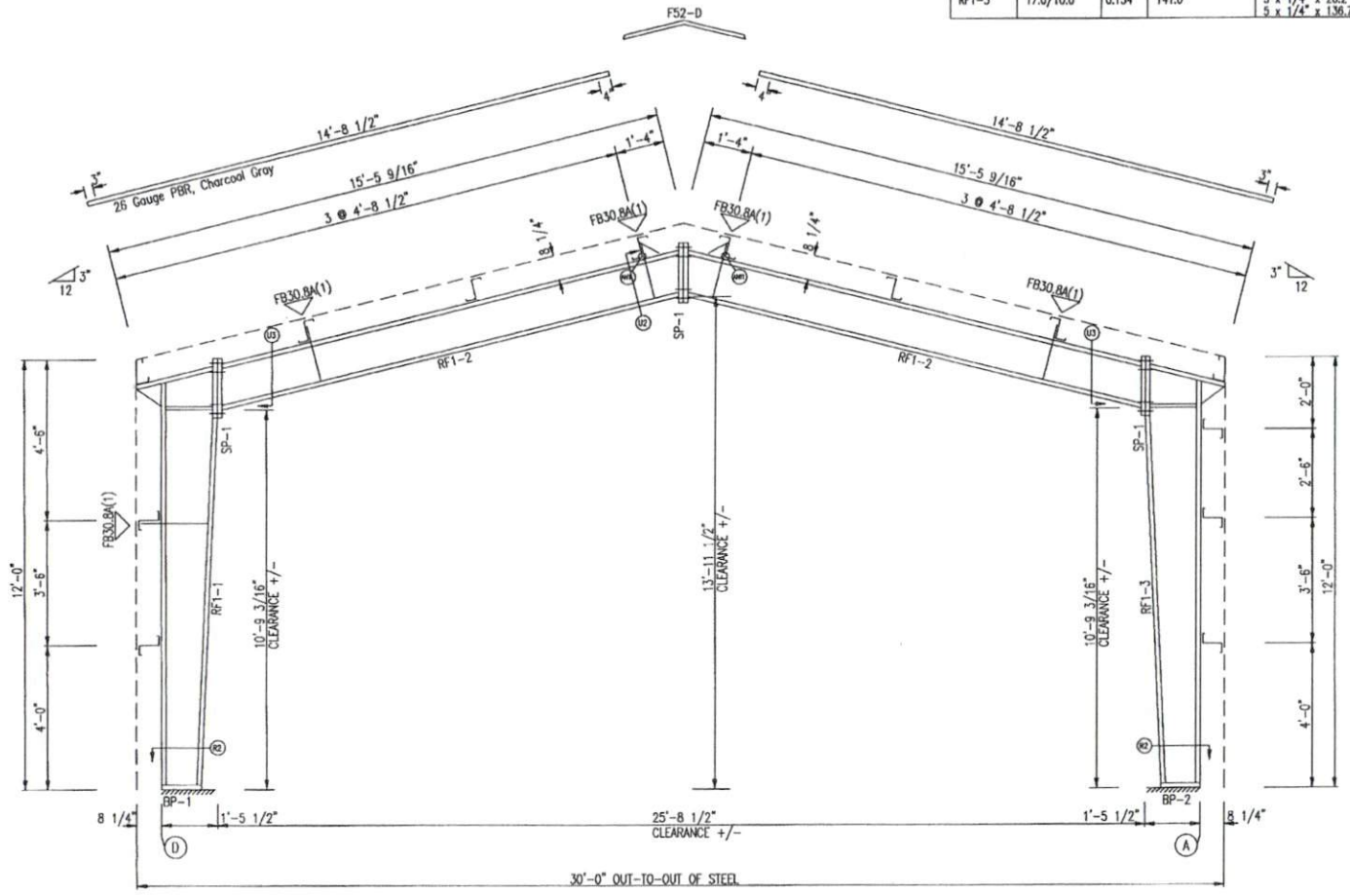
SPLICE PLATE & BOLT TABLE									
Mark	Qty Top	Bot	Int	Type	Dia	Length	Width	Thick	Length
SP-1	4	4	0	A325	3/4"	1 3/4"	6"	3/8"	1'-7 1/8"

STIFFENER TABLE				
Mark	Stiff Mark	Plate Size Width	Thick	Length
RF1-1	St- 1	2 1/2	1/4"	17"
RF1-3	St- 1	2 1/2	1/4"	17"

BASE PLATE TABLE			
Col Mark	Plate Size Width	Thick	Length
BP-1	6"	3/8"	10 1/2"
BP-2	6"	5/8"	10 1/2"

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

MEMBER TABLE					
Mark	Web Depth Start/End	Web Plate Thick	Length	Outside Flange W x Thk x Length	Inside Flange W x Thk x Length
RF1-1	10.0/17.0	0.134	141.2	5 x 1/4" x 136.9 5 x 1/4" x 26.2	5 x 1/4" x 125.8
RF1-2	12.0/12.0	0.134	161.1	5 x 1/4" x 158.0	5 x 1/4" x 158.0
RF1-3	17.0/10.0	0.134	141.0	5 x 1/4" x 26.2 5 x 1/4" x 136.7	5 x 1/4" x 125.5



FRAME CROSS SECTION: FRAME LINE 2

GENERAL NOTES:

1. SNUG TIGHT - ALL BOLTED JOINTS WITH A325 TYPE 1 BOLTS ARE SPECIFIED AS SNUG-TIGHTENED JOINTS IN ACCORDANCE WITH THE SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS, DECEMBER 31, 2009. 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.
2. ALL FIELD WELDED CONNECTIONS OF SECONDARY FRAMING SHALL BE BOLTED WITH A325 MACHINE BOLTS
3. INSTALL ALL FLANGE BRACES ON COLUMN AND RAFTER AS SHOWN

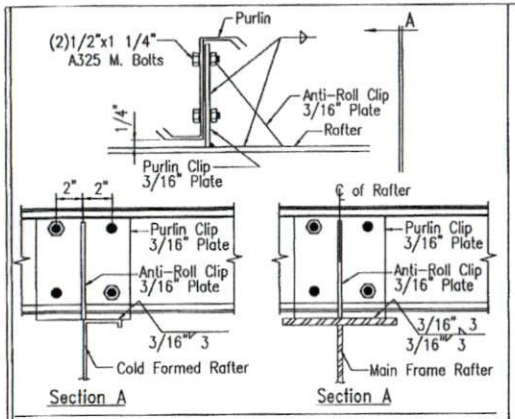
ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
A	2/28/19	FOR CONSTRUCTION PERMIT	GJO	HPD	MS

HERITAGE BUILDING SYSTEMS
Established 1979
2612 GRIBBLE STREET
NORTH LITTLE ROCK, AR 72114
1-800-643-5555

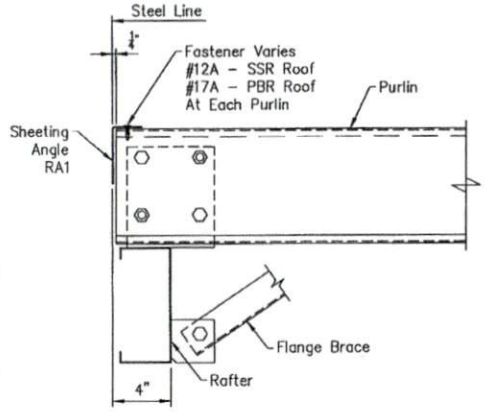
PROJECT: JUSTIN SMITH
CUSTOMER: JUSTIN SMITH
OWNER: JUSTIN SMITH
LOCATION: ANGIER, NC 27501

CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	2/28/19	N.T.S.	1	A	16-B-92135	E7	A

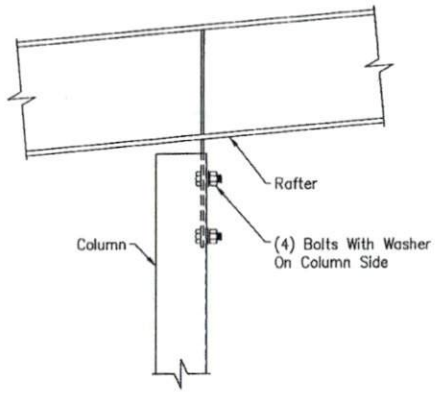
NORTH CAROLINA PROFESSIONAL SEAL 23122 ENGINEER LIDER LIANG
Mar 04 2019



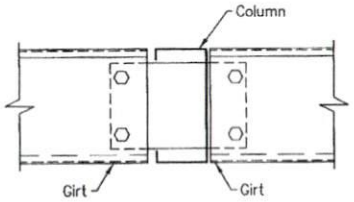
ANTI PURLIN ANTI-ROLL CLIP



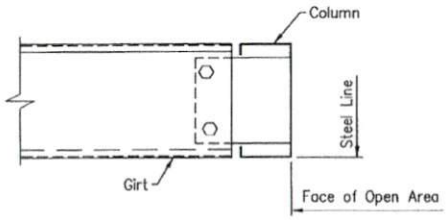
A5	Purlin To Bearing Frame Single Cold Form Rafter	Date Jun '17	Rev 00
Page MB-A5			



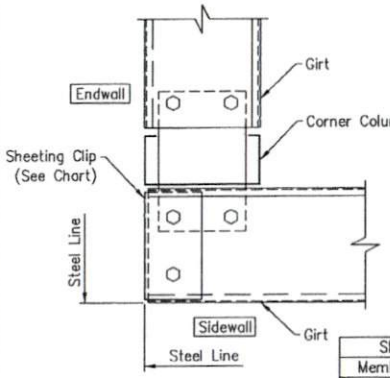
B4	Cold Form Endwall Column To Rafter	Date Jun '17	Rev 00
Page MB-B4			



C4	Girt To Cold Form Column	Date Jun '17	Rev 00
Page MB-C4			



C13	Girt To Cold Form Endwall Column - Partially Open	Date Jun '17	Rev 00
Page MB-C13			



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

D4	Girt To Cold Form Corner Column	Date Dec '17	Rev 00
Page MB-D4			

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
A	2/28/19	FOR CONSTRUCTION PERMIT	GJO	HPD	MS

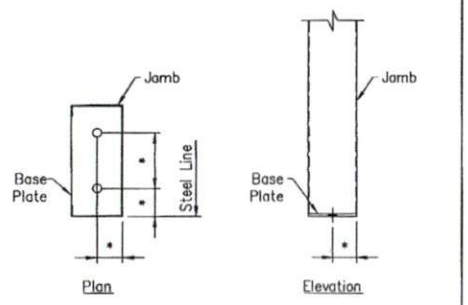
HERITAGE BUILDING SYSTEMS
Established 1979

2612 GRIBBLE STREET
NORTH LITTLE ROCK, AR 72114
1-800-643-5555

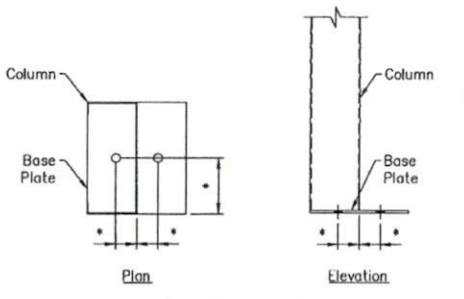
PROJECT: JUSTIN SMITH
CUSTOMER: JUSTIN SMITH
OWNER: JUSTIN SMITH
LOCATION: ANGIER, NC 27501

CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	2/28/19	N.T.S.	1	A	16-B-92135	DET1	A

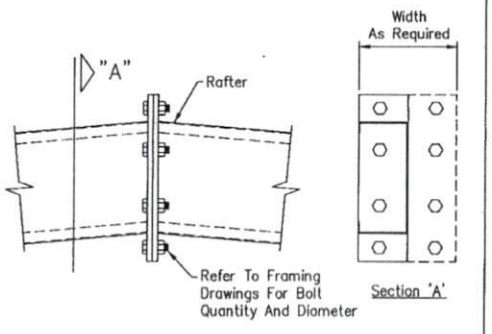
NORTH CAROLINA PROFESSIONAL SEAL 23122 ENGINEER LIDER LIANG
Mar 04 2019



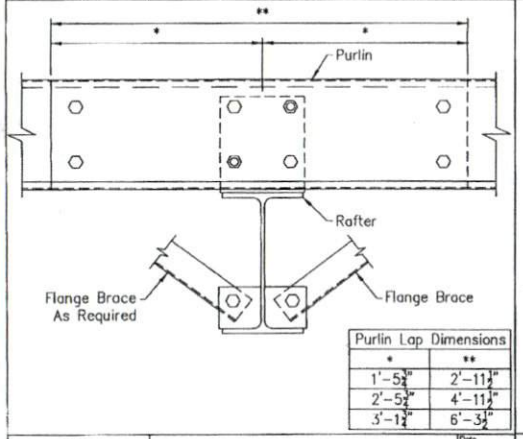
E5	Door Jamb Base Plate	Date Dec '18
Page MB-E5		Rev 01



E8	Cold Form Endwall Column Base Plate	Date Dec '18
Page MB-E8		Rev 01

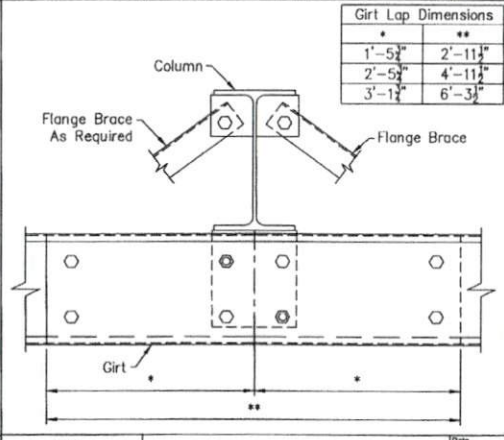


F10	Endwall Bearing Frame – Cold Form Rafter Splice At Ridge	Date Jun '17
Page MB-F10		Rev 00



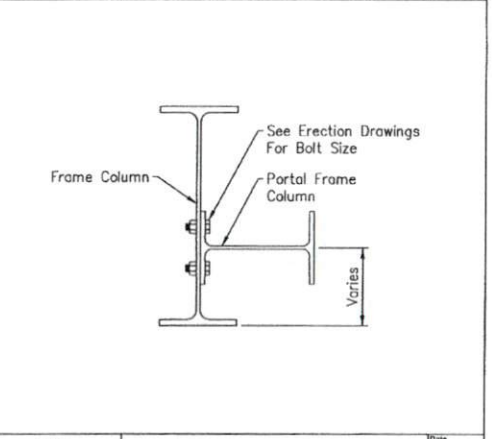
Purlin Lap Dimensions	
*	**
1'–5½"	2'–11½"
2'–5½"	4'–11½"
3'–1½"	6'–3½"

G2	Purlin To Rigid Frame	Date Jun '17
Page MB-G2		Rev 00



Girt Lap Dimensions	
*	**
1'–5½"	2'–11½"
2'–5½"	4'–11½"
3'–1½"	6'–3½"

H2	Girt To Rigid Frame	Date Jun '17
Page MB-H2		Rev 00



H9	Portal Frame To Rigid Frame Column	Date Jun '17
Page MB-H9		Rev 00

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
A	2/28/19	FOR CONSTRUCTION PERMIT	GJO	HPD	MS

HERITAGE BUILDING SYSTEMS
Established 1979
2612 GRIBBLE STREET
NORTH LITTLE ROCK, AR 72114
1-800-643-5555

PROJECT: JUSTIN SMITH
CUSTOMER: JUSTIN SMITH
OWNER: JUSTIN SMITH
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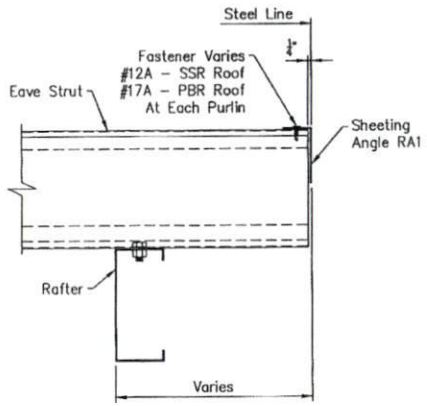
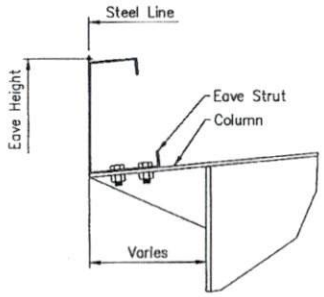
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	2/28/19	N.T.S.	1	A	16-B-92135	DET2	A

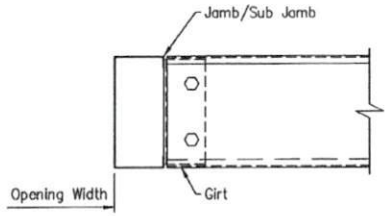
NORTH CAROLINA PROFESSIONAL SEAL 23122 ENGINEER LIDER LIANG
Mar 04 2019



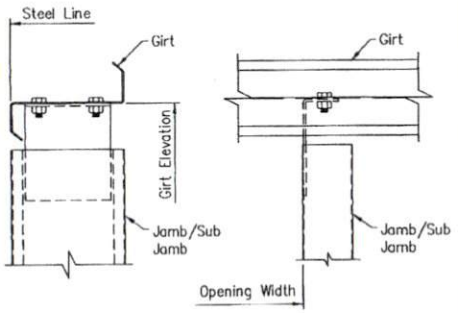
I6	Low Side Eave Strut To Bearing Frame – Cold Form	Jun '17
MB-I6		00



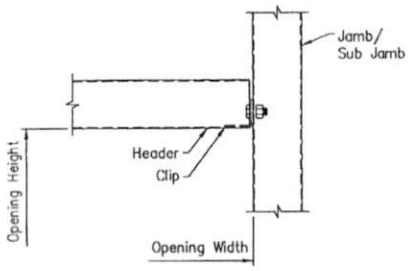
J2	Eave Strut To By-Pass Rigid Frame At Interior	Dec '17
MB-J2		00



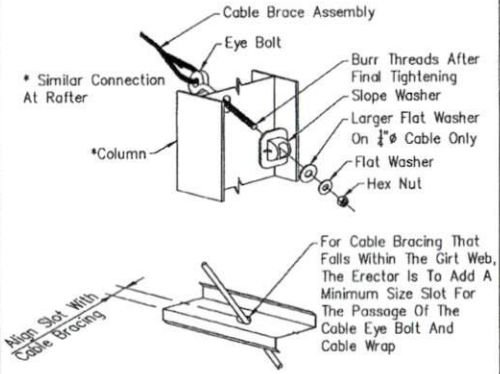
K3	Girt To Single Cold Form Jamb/Sub Jamb	Dec '17
MB-K3		00



L8	Single Cold Form Jamb/ Sub Jamb To Girt	Jun '17
MB-L8		00



M3	Header To Cold Form Jamb/Sub Jamb	Dec '17
MB-M3		00



Q2	Cable Brace Attachment At Web	Mar '18
MB-Q2		01

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
A	2/28/19	FOR CONSTRUCTION PERMIT	GJO	HPD	MS

HERITAGE BUILDING SYSTEMS
Established 1979

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NORTH LITTLE ROCK, AR 72114
1-800-843-5555

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OWNER: JUSTIN SMITH
LOCATION: ANGIER, NC 27501

CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	2/28/19	N.T.S.	1	A	16-B-92135	DET3	A

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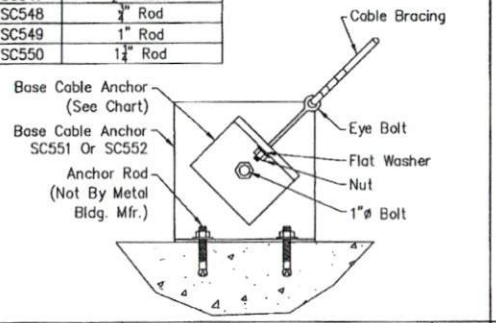
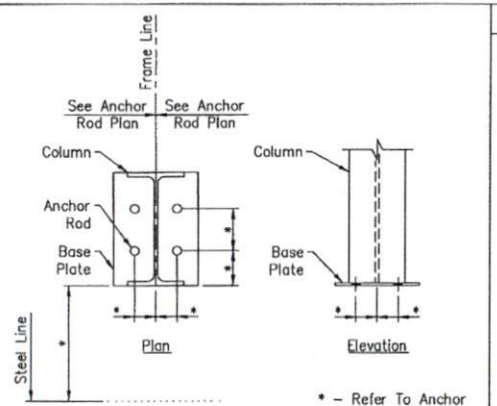
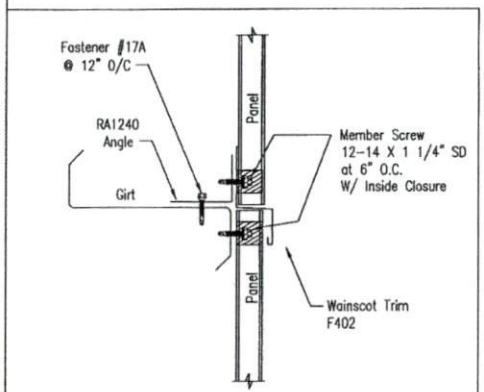
Base Cable Anchor	
Piece Mark	Application
SC544	1/4" Cable Or 1/2" Rod
SC545	5/16" Cable Or 5/8" Rod
SC546	3/8" Cable
SC547	1/2" Cable
SC548	3/4" Rod
SC549	1" Rod
SC550	1 1/4" Rod



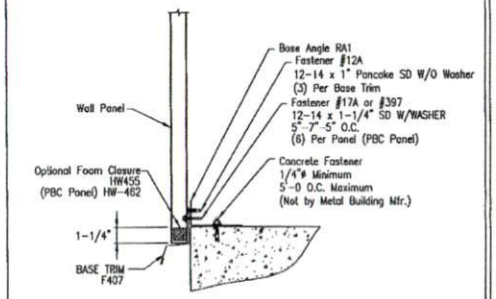
Q6 — Diagonal Brace Clip To Floor — Date Jun '17 — Rev 00 — Page MB-Q6



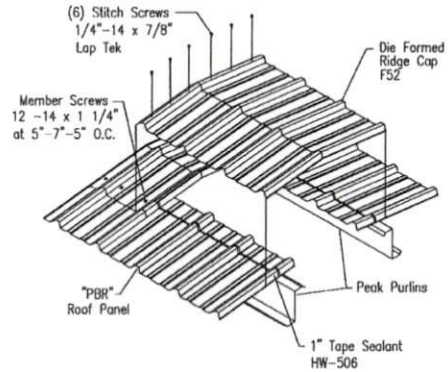
R2 — Anchor Rods At Frame Column — Date Dec '17 — Rev 00 — Page MB-R2



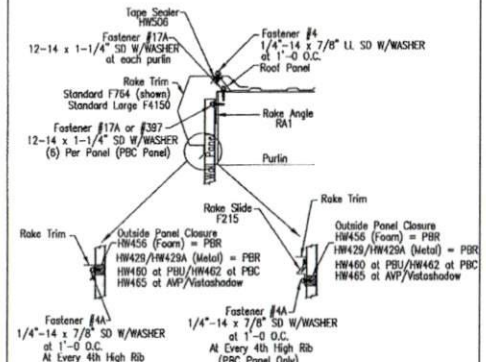
T18 — TRANSITION FROM WALL PANEL TO WAINSCOT WITH PANELS NOT LAPPED



Base Angle Without Panel Recess
With Base Trim — TRIM_60



"PBR" ROOF FIXED RIDGE DETAIL
Trim_80



Rake Detail – PBR Roof
Classic Standard and Standard Large Rake Trim – Sheeted Wall — TRIM_104

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
A	2/28/19	FOR CONSTRUCTION PERMIT	GJO	HPD	MS

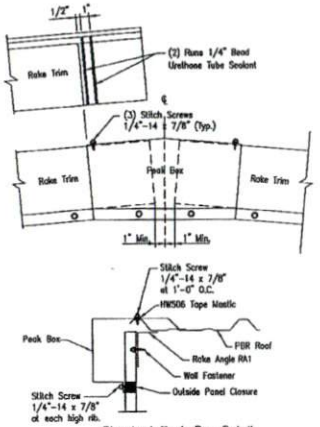
HERITAGE BUILDING SYSTEMS
Established 1979

2612 GRIBBLE STREET
NORTH LITTLE ROCK, AR 72114
1-800-643-5555

PROJECT: JUSTIN SMITH
CUSTOMER: JUSTIN SMITH — OWNER: JUSTIN SMITH
LOCATION: ANGIER, NC 27501

CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	2/28/19	N.T.S.	1	A	16-B-92135	DET4	A

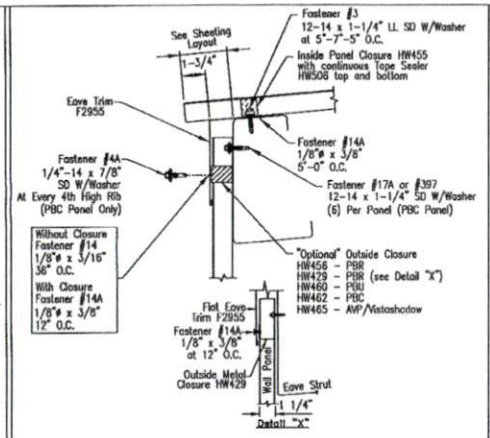
NORTH CAROLINA PROFESSIONAL SEAL 23122 ENGINEER LIDER LIANG
Mar 05 2019



Standard Peak Box Detail

PBR Roof

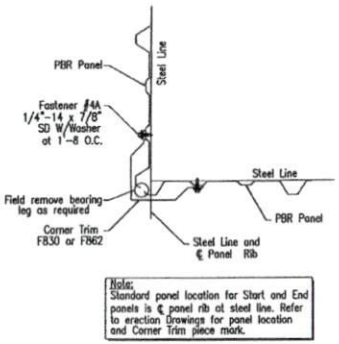
TRIM_106



Low Eave Detail – PBR Roof

Flat Eave Trim – Sheeted Wall

TRIM_120



Note:
Standard panel location for Start and End panels is ℄ panel rib at steel line. Refer to erection Drawings for panel location and Corner Trim piece mark.

Outside Corner Trim – PBR Wall Panel

TRIM_186

Standard Grade

Description	Fastener Number	Application
1/4"-14 x 7/8"	4A	Stitch & Trim Screw
12-14 x 1 1/4"	17A	Member Screw
12-14 x 1 1/2"	17B	Member Screw
12-14 x 2"	28	Member Screw

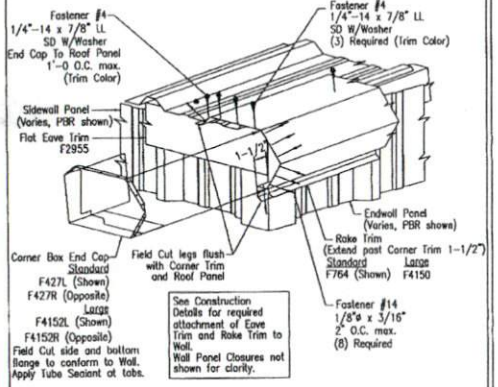
Long Life

Description	Fastener Number	Application
1/4"-14 x 7/8"	4	Stitch & Trim Screw
12-14 x 1 1/4"	3	Member Screw
12-14 x 1 1/2"	3A	Member Screw
12-14 x 2"	58	Member Screw

Note:
Standard details call for 1 1/4" fasteners as member screws by default.
Member screws may be 1 1/4", 1 1/2", or 2" depending on insulation, application, or customer request.

Self-Drilling Screw Application

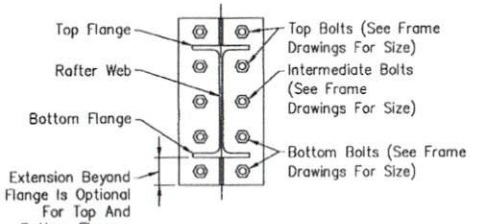
SCRW1



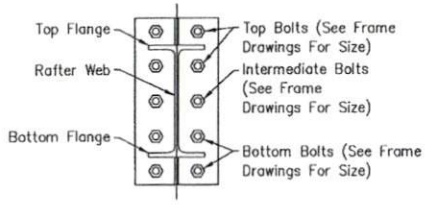
Low Eave Rake Corner – PBR Roof

Standard and Standard Large Rake

TRIM_203



U2	Bolts At Rigid Frame Ridge Rafter Connection	Date Jun '17
Page MB-U2		Rev 00



U3	Bolts At Rigid Frame Rafter To Column Connection	Date Jun '17
Page MB-U3		Rev 00

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
A	2/28/19	FOR CONSTRUCTION PERMIT	GJO	HPD	MS

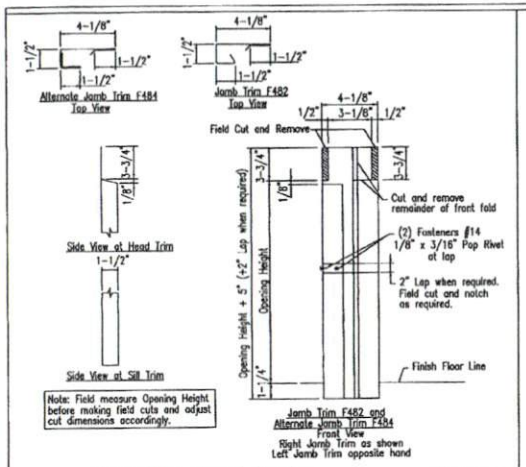
HERITAGE BUILDING SYSTEMS
Established 1979

2612 GRIBBLE STREET
NORTH LITTLE ROCK, AR 72114
1-800-643-5555

PROJECT: JUSTIN SMITH
CUSTOMER: JUSTIN SMITH
OWNER: JUSTIN SMITH
LOCATION: ANGIER, NC 27501

CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	2/28/19	N.T.S.	1	A	16-B-92135	DET5	A

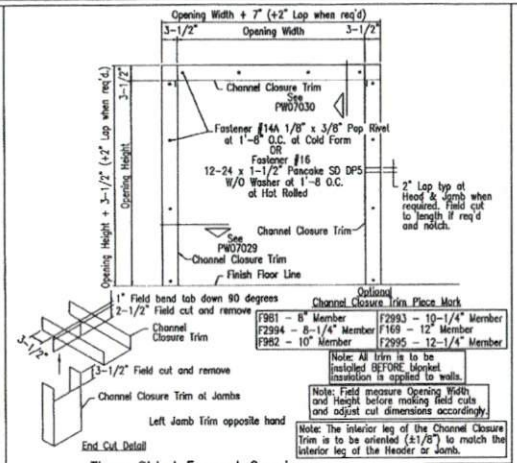
NORTH CAROLINA PROFESSIONAL SEAL 23122 ENGINEER LIDER LIANG
Mar 04 2019



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

Three Sided Framed Opening
Jamb Trim Field Cut Details

DRAWING NO. PW07027



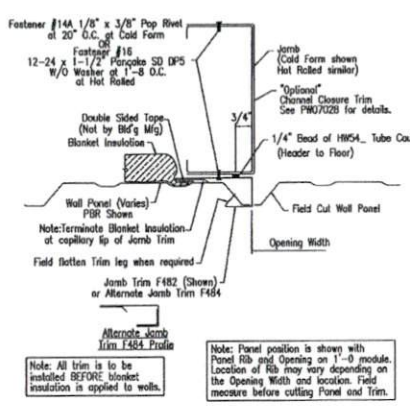
Note: All trim is to be installed BEFORE blanket insulation is applied to walls.

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

Note: The interior leg of the Channel Closure Trim is to be oriented (±1/8") to match the interior leg of the Header or Jamb.

Three Sided Framed Opening
"Optional" Channel Closure Trim

DRAWING NO. PW07028

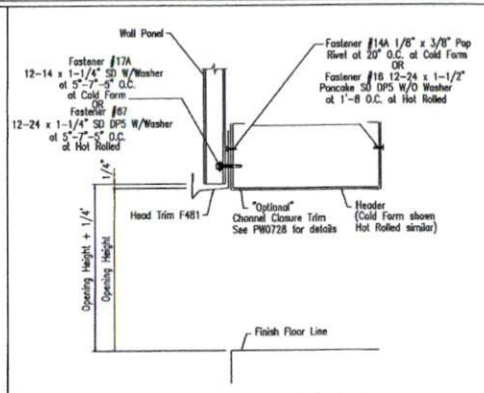


Note: All trim is to be installed BEFORE blanket insulation is applied to walls.

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.

Three Sided Framed Opening
Jamb Trim Installation

DRAWING NO. PW07029



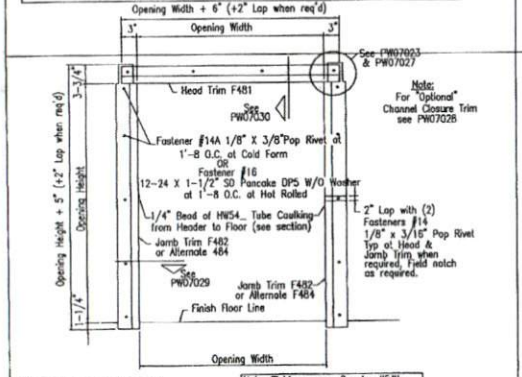
Note: All trim is to be installed BEFORE blanket insulation is applied to walls

Three Sided Framed Opening
Head Trim Installation

TRIM_5

DRAWING NO. PW07030

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.



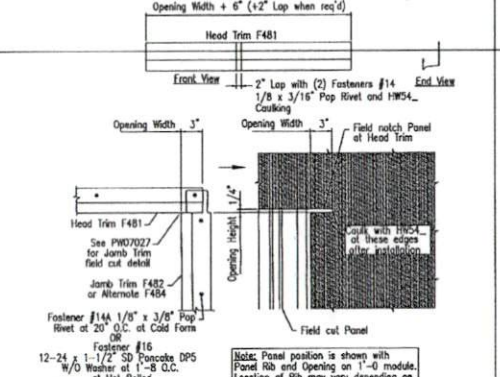
Note: All trim is to be installed BEFORE blanket insulation is applied to walls.

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

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

DRAWING NO. PW07022

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.



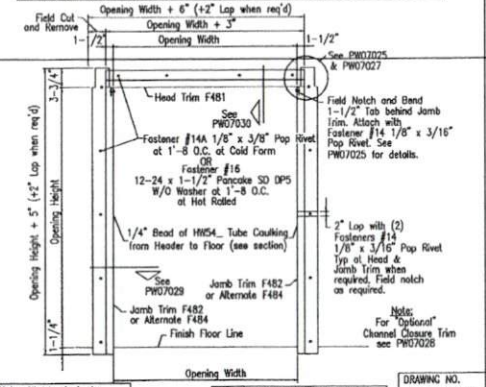
Note: All trim is to be installed BEFORE blanket insulation is applied to walls

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.

Three Sided Framed Opening
Field Notch Panel at Head Trim

DRAWING NO. PW07023

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.



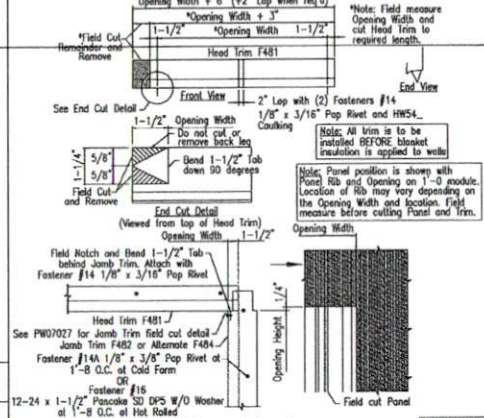
Note: All trim is to be installed BEFORE blanket insulation is applied to walls.

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

Three Sided Framed Opening
Trim Installation with Field Notch and Bend Tabs at Head Trim

DRAWING NO. PW07024

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.



Three Sided Framed Opening
Field Notch and Bend Tabs at Head Trim

TRIM_7

DRAWING NO. PW07025

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
A	2/28/19	FOR CONSTRUCTION PERMIT	GJO	HPD	MS

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Established 1979

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1-800-643-5555

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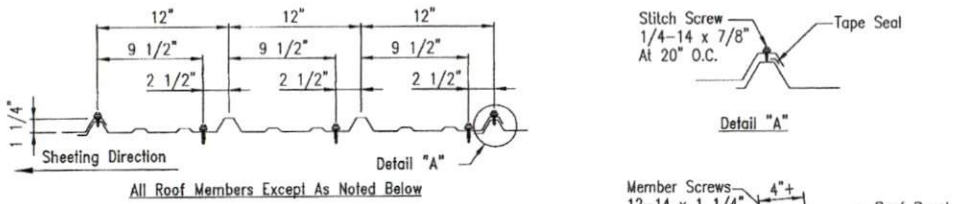
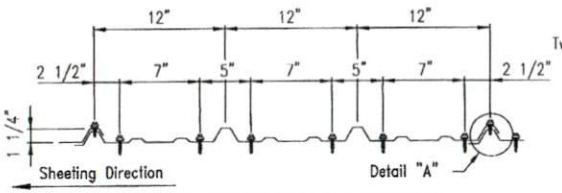
Mar 04, 2019

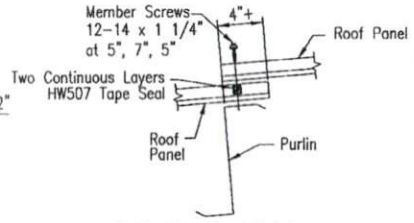


All Roof Members Except As Noted Below



At Eave Strut, Panel End Lap, and Peak Purlin

Detail "A"



Section Thru Panel End Laps

Fastener Location for "PBR" Roof Panel

TRIM_175

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
A	2/28/19	FOR CONSTRUCTION PERMIT	GJO	HPD	MS

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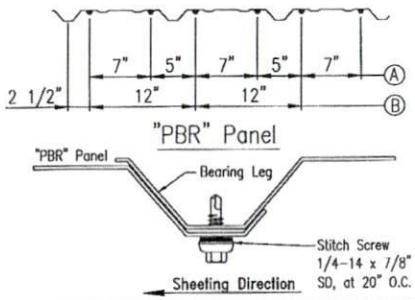
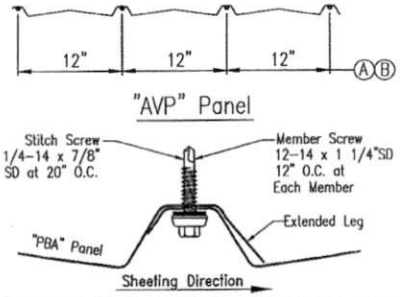
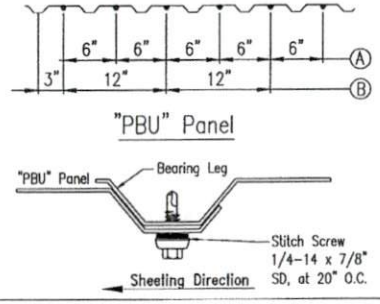
CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	2/28/19	N.T.S.	1	A	16-B-92135	DET7	A

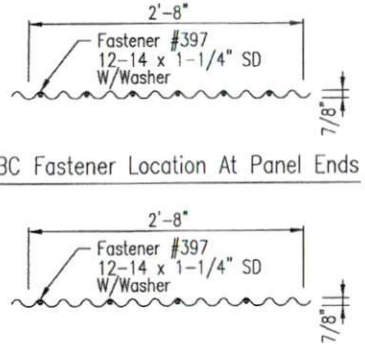
NORTH CAROLINA PROFESSIONAL SEAL 23122 ENGINEER LIDER LIANG

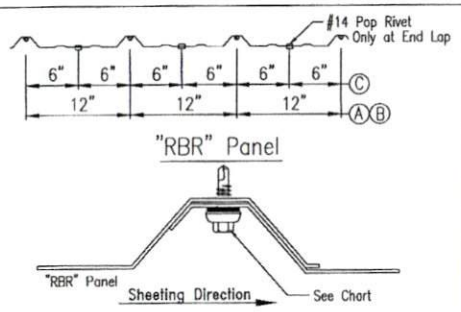
Mar 05 2019



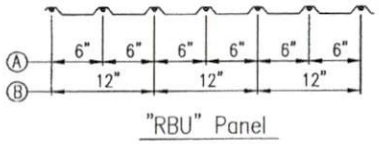








Ⓐ = At Base, Rake, Eave, and Mid Span End Laps
Ⓑ = At Intermediate Member, and at Optional Liner Panel
Ⓒ = At Panel End Lap When Required



Fastener Location for Panel At Wall

TRIM_174

ISSUE	DATE	DESCRIPTION	BY	CK'D	OSN
A	2/28/19	FOR CONSTRUCTION PERMIT	GJO	HPD	MS

HERITAGE BUILDING SYSTEMS
Established 1979

2812 GRIBBLE STREET
NORTH LITTLE ROCK, AR 72114
1-800-643-5555

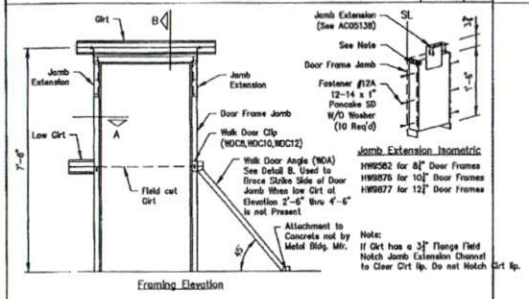
PROJECT: JUSTIN SMITH
CUSTOMER: JUSTIN SMITH
OWNER: JUSTIN SMITH
LOCATION: ANGIER, NC 27501

CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	2/28/19	N.T.S.	1	A	16-B-92135	DET8	A

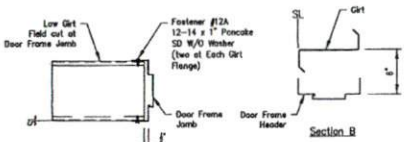
NORTH CAROLINA PROFESSIONAL SEAL 23122 ENGINEER LIDER LIANG
Mar 04 2019

Knock Down Walk Door With Jamb Extensions With Low Girts Attached to Door Frame

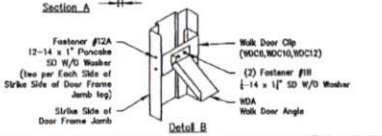
Page AC05131 | Date Mar '16 | Rev 02



Framing Elevation



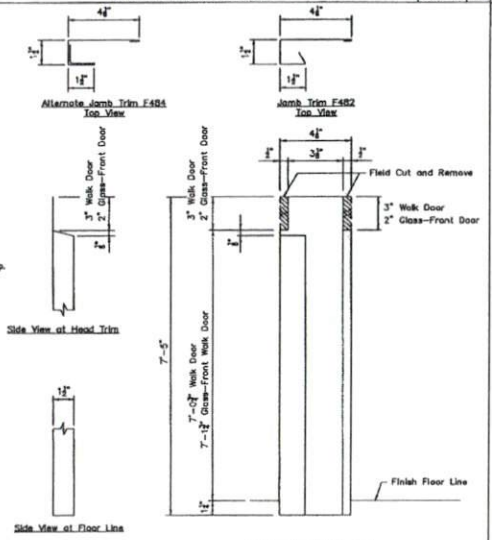
Section A | Section B



Detail B

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

Page PW09027 | Date Nov '17 | Rev 01



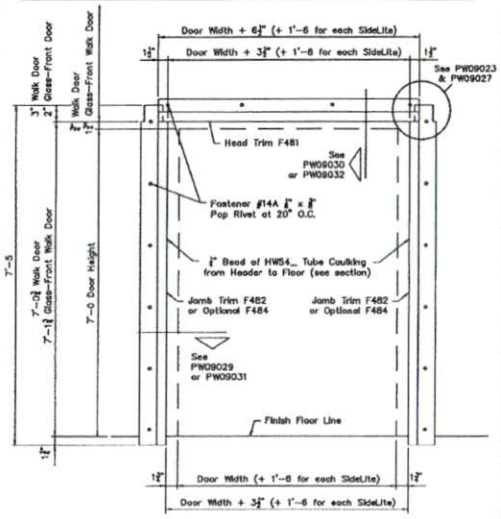
Jamb Trim F482 and Alternate Jamb Trim F484
Front View
Right Jamb Trim as shown
Left Jamb Trim opposite hand

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

Page PW09022 | Date May '14 | Rev 01

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.



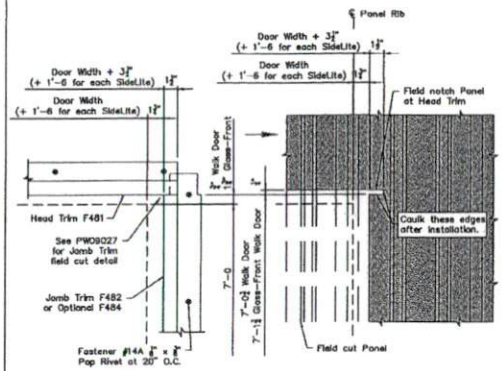
Note: All trim is to be installed BEFORE blanket insulation is applied to walls.

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

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

Page PW09023 | Date Dec '11 | Rev 00

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.

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
A	2/28/19	FOR CONSTRUCTION PERMIT	GJO	HPD	MS

HERITAGE BUILDING SYSTEMS
Established 1979

2612 GRIBBLE STREET
NORTH LITTLE ROCK, AR 72114
1-800-643-5555

PROJECT: JUSTIN SMITH
CUSTOMER: JUSTIN SMITH
OWNER: JUSTIN SMITH
LOCATION: ANGIER, NC 27501

CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
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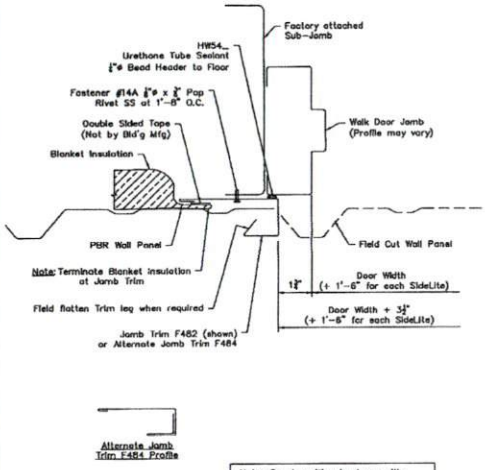
NORTH CAROLINA PROFESSIONAL SEAL 23122 ENGINEER LIDER LIANG
Mar 05 2019

PBR Wall Panel - Pre-Assembled Walk Door & Glass-Front Walk Door Jamb Trim Installation

Page PW09029 | Rev Nov '17 | 03



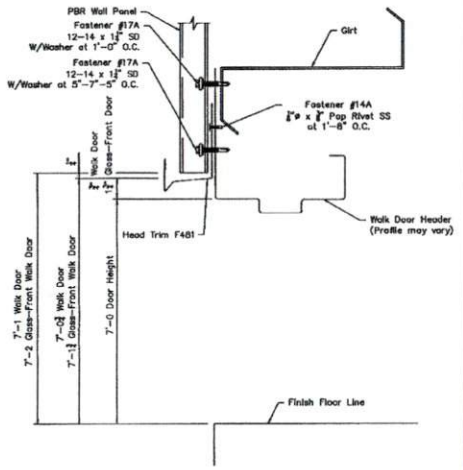
Alternate Jamb Trim F484 Profile

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 - Pre-Assembled Walk Door & Glass-Front Walk Door Head Trim Installation

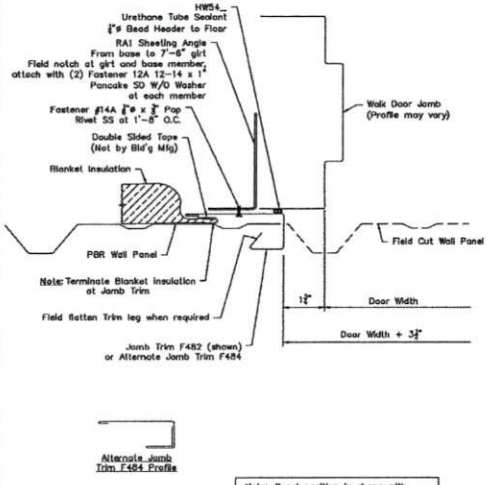
Page PW09030 | Rev Mar '15 | 02



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

PBR Wall Panel - Knock Down Walk Door Jamb Trim Installation

Page PW09031 | Rev Nov '17 | 03



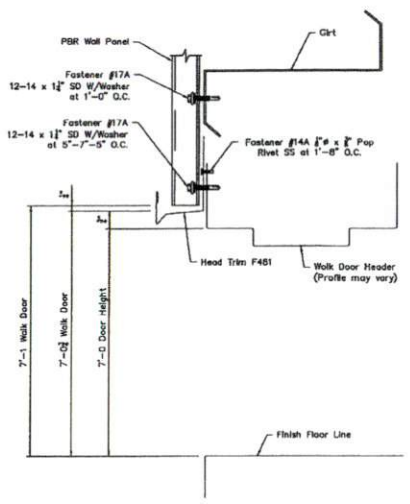
Alternate Jamb Trim F484 Profile

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 - Knock Down Walk Door Head Trim Installation

Page PW09032 | Rev Mar '15 | 02



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

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
A	2/28/19	FOR CONSTRUCTION PERMIT	GJO	HPD	MS

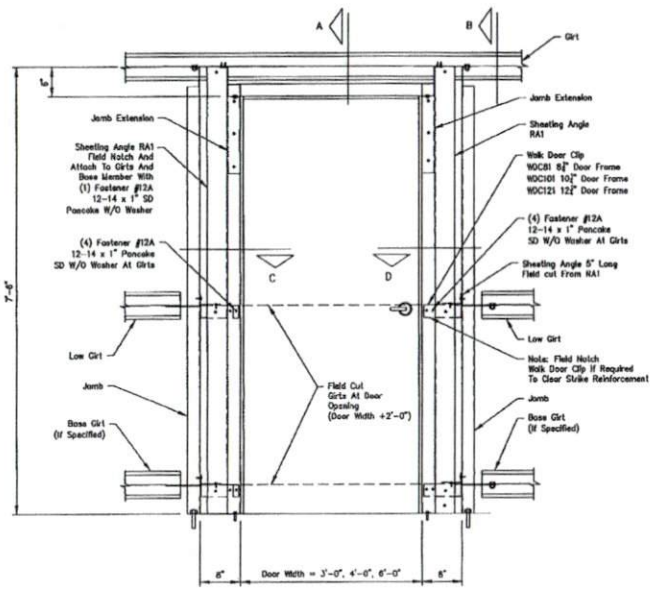
HERITAGE BUILDING SYSTEMS
Established 1979

2612 GRIBBLE STREET
NORTH LITTLE ROCK, AR 72114
1-800-643-5555

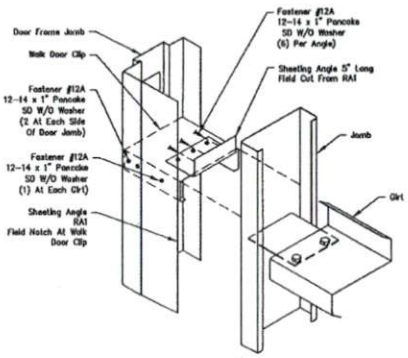
PROJECT: JUSTIN SMITH
CUSTOMER: JUSTIN SMITH
OWNER: JUSTIN SMITH
LOCATION: ANGIER, NC 27501

CAD	DATE	SCALE	PHASE	BUILDING ID	JOB NUMBER	SHEET NUMBER	ISSUE
	2/28/19	N.T.S.	1	A	16-B-92135	DET10	A

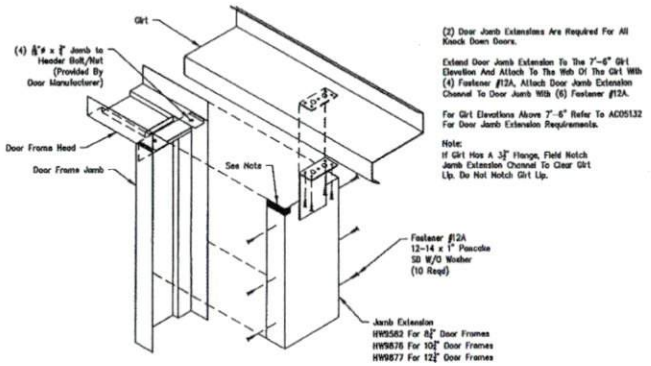
NORTH CAROLINA PROFESSIONAL SEAL 23122 ENGINEER LIDER LIANG
Mar 05 2019



Door Elevation



Walk Door Clip To Jamb Isometric



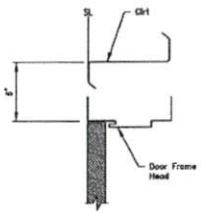
(2) Door Jamb Extensions Are Required For All Knock Down Doors.

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.

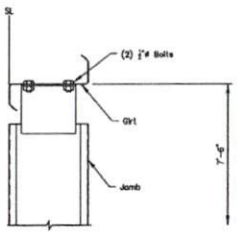
For Girt Elevations Above 7'-6" Refer To AC05132 For Door Jamb Extension Requirements.

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

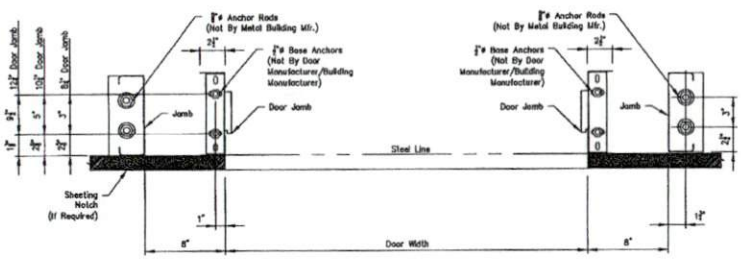
Door Jamb Extension Isometric



Section A



Section B

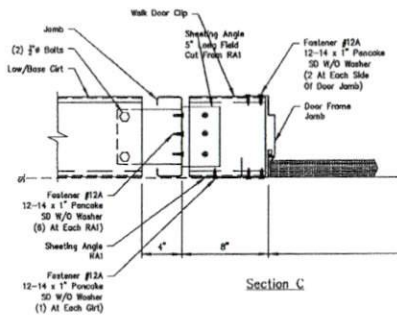


The Adequacy Of The ⅝"ø Base Anchor Is Not The Responsibility Of The Building Manufacturer. The Adequacy Of These Base Anchors Should Be Determined By A Qualified Foundation Engineer.

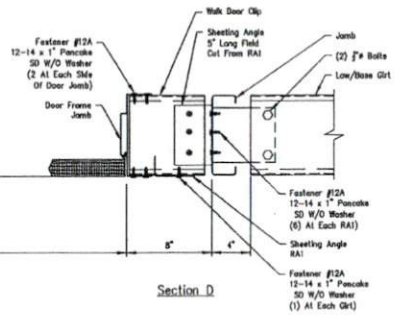
Verify Door Jamb Base Clip Dimensions With Patterns Shown Prior To Placement Of Door Anchors And Adjust Patterns If Needed.

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

Knock Down Door Anchor Placement



Section C



Section D

ISSUE	DATE	DESCRIPTION	BY	CK'D	DSN
A	2/28/19	FOR CONSTRUCTION PERMIT	GJO	HPD	MS

HERITAGE BUILDING SYSTEMS
Manufactured 1979

2612 GRIBBLE STREET
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CUSTOMER: JUSTIN SMITH
OWNER: JUSTIN SMITH
LOCATION: ANGIER, NC 27501

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NORTH CAROLINA PROFESSIONAL SEAL 23122 ENGINEER LIDER LIANG
Mar 04 2019

Knock Down Door - With Girt At 7'-6" And With Low / Base Girt Walk Door Frame Attaching To Welded Clip Jambs

Page AC05220
Date Nov '18 Rev 00