CUSTOMER END USER RESPONSIBILITIES

1. The CUSTOMER / END USER, hereafter referred to as the "FSS", obtains and pays for all building permits, licenses, public assessments, paving or utility pro rata, utility connections, occupancy fees and other fees required by any governmental authority or utility in connection with the work provided for in the Contract Documents. The CUSTOMER provides at his expense all plans and specifications required to obtain a building permit. It is the CUSTOMER'S responsibility to ensure that all plans and specifications comply with the applicable requirements of any governing building authorities.
2. The CUSTOMER is responsible for identifying all applicable building codes, zoning codes, or other regulations applicable to the Construction Project, including the metal building system in order to insure that Building Supplier's plans comply with the applicable requirements of any governing building authorities and to obtain appropriate approvals and secure necessary permits from City, County, State, OR Federal Agencies as required.
3. It is the responsibility of the CUSTOMER to interpret all aspects of the END USER'S specifications and incorporate the appropriate specifications, design criteria, and design loads into the Order Documents submitted to Building Supplier.
4. CUSTOMER is responsible for setting of anchor bolts and erection of steel in accordance with Building Supplier's "For Construction" drawings only. Temporary supports such as guys, braces, false work, cribbing or other elements required for the erection operation shall be determined, furnished and installed by the ERECTOR. No items should be purchased from a preliminary set of drawing. Including anchor bolts. Use only final "FOR CONSTRUCTION DRAWINGS" for this use. (Section 7, Code of Standard Practice for Steel Buildings – AISC 15th Edition.)
5. Building Supplier's standard specifications apply unless stipulated otherwise in the Contract Documents. Building Supplier design, quality criteria, standards, practice, methods and tolerances shall govern the work with any other interpretations to the contrary not withstanding. It is understood by both parties that the CUSTOMER is responsible for clarification of inclusions or exclusions from the architectural plans and/or specifications. In case of discrepancies between Building Supplier's structural steel plans and plans for other trades, Building Supplier's plans shall govern. (Section 3, Code of Standard Practice for Steel Buildings –Buildings, AISC 15th Edition).
6. It is the responsibility of Building Supplier, through their Engineer, to design the metal building system to meet the specifications including the design criteria and design loads incorporated by the CONTRACTOR into the Order Documents. Building Supplier is not responsible for making an independent determination of any local codes or any other requirements not part of the Order Documents.
7. Building Supplier is responsible only for the structural design of the metal building system. The Building Supplier's Engineer is not the Design Professional or Engineer of Record for the Construction Project. The supplying of sealed engineering data and drawings for the metal building system does not imply or constitute an agreement that the Building Supplier or its design engineers are acting as the engineer of record or design professional for a construction project. These drawings are sealed only to certify the design of the structural components.
8. Building Supplier is responsible for the design of the anchor bolt 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 transfer of anchor bolt forces to the concrete or the adequacy of the anchor bolt in relation to the concrete. Unless otherwise provided in the Order Documents, Building Supplier does not design and is not responsible for the design, material and construction of the foundation or foundation embedment. The 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. (Chapter IV Section 3.2.2 Metal Building Systems Manual 2018 Edition)
9. Building Supplier's standard specifications apply unless stipulated otherwise in the Contract Documents. Building Supplier's design, quality criteria, standards, practice, methods and tolerances shall govern the work any other interpretations to the contrary notwithstanding. It is understood by both parties that the CUSTOMER is responsible for clarifications of inclusions or exclusions from the Architectural plans.
10. In case of discrepancies between Building Supplier's structural steel plans and plans for other trades, Building Supplier shall govern ("Code of Standard Practice for Steel Buildings and Bridges" in the AISC Manual, Section 3.3)
11. The CUSTOMER is responsible for overall project coordination. All interface, compatibility and design considerations concerning any materials not furnished by Building Supplier and Building Supplier's steel system are to be considered and coordinated by the CUSTOMER. Specific design criteria concerning this interface between materials must be furnished before release for fabrication or Building Supplier's assumptions will govern.
12. Anchor bolts and foundation bolts are designed, furnished, and set by the CUSTOMER in accordance with an approved drawing. Dimensional accuracy shall satisfy the requirements of Section 7.5.1 of "Code of Standard Practice for Steel Buildings and Bridges" in the AISC 15th edition Manual.
13. All other embedded items or connection materials between the structural steel and the work of other trades are located and set by the CUSTOMER in accordance with approved location on erection drawings. Accuracy of these items must satisfy the erection tolerance requirements.
14. Building Supplier does not investigate the influence of the metal building system on existing buildings or structures. The CUSTOMER assures that such buildings and structures are adequate to resist snow drifts, wind loads, or other conditions as a result of the presence of the metal building systems.

APPROVAL NOTES

1. Approval of Building Supplier's drawings and/or calculations indicates that Building Supplier has correctly interpreted the contract requirements. This approval constitutes the CUSTOMER'S acceptance of the Building Supplier's design, concepts, assumptions, and loadings. (Section 4, Code of Practice for Steel Buildings, AISC 15th Edition and MBSM 3.3.3).
2. Failure to respond to clouded areas and areas to verify may result in additional costs and/or schedule delays for which Building Supplier will not be responsible.
3. Any changes made after the CUSTOMER has signed and returned the approval drawings and/or calculations and the project is released for production shall be billed to the CUSTOMER including material, engineering, and other cost. An additional fee may be charged if the project must be moved from the engineering and/or the production/drafting schedule.
4. It is the responsibility of the CUSTOMER to field verify all existing conditions prior to fabrication.
5. It is imperative that any changes to these drawings:
   - 5.1. Be made in contrasting ink.
   - 5.2. Be legible and unambiguous.
   - 5.3. Have all instances of changes clearly indicated.
6. A dated signature, in the designated areas, is required on all pages. The signature must be from the person authorized on the contract or a person authorized, in writing, by the CUSTOMER.
7. Building Supplier reserves the right to resubmit drawings with extensive or complex changes required to avoid fabrication errors. This may impact the delivery schedule.
8. Any changes noted on the drawings not in conformance with the terms and requirements of the contract between Building Supplier and its CUSTOMER are not binding on Building Supplier unless subsequently specifically acknowledged and agreed to in writing by change order or separate documentation.
9. The CUSTOMER approves of all notes and conditions on the drawings and/or calculations by signing an Approval Drawing Waiver Form.

GENERAL NOTES

1. Wall and liner panels are an integral part of the structural system. Unauthorized removal of panels or cutting panels for framed openings not shown is prohibited.
2. Oil–canning, a perceived waviness inherent to light gauge metal, may exist. This condition does not affect the structural integrity or the finish of the panel, and therefore is not a cause for rejection.
3. The primer for all cold–formed structural framing members contain a "wax–type" lubricant to facilitate roll–forming. Hair–line crazing which may occur during forming operations is considered normal and is not a cause for rejection.
4. All other primed structural members are given one shop coat (1.0 mils) of standard red–oxide primer designed for short term field protection. This paint is not intended for long term exposure to the elements.
5. All bolts are 1/2" x 1–1/4" A307 except at bearing frame rafter splice, endwall column to rafter and main frame connections. Refer to drawings. Note: Washers are not supplied unless noted otherwise on drawing.
6. All high strength bolts are A325 unless specifically noted otherwise. Structural joints with A.S.T.M. A325 high strength bolts where indicated on the drawings are designed and considered to be in a Non–Slip Critical Category and therefore need only to be tightened to the snug tight condition. This condition should be attained when all surface in a joint are in firm contact and by using few impacts of an impact wrench or the full effort of a person using spud wrench. Hardened washers are not required unless otherwise on the drawings.
7. Any type of suspended or load inducing system(s) is prohibited If zero collateral and zero sprinkler loads are designated on the contract. This would include lights, duct work, piping, insulation types other than 3" standard duty fiberglass blanket insulation, etc.
8. Fabrication shall be in accordance with Building Supplier's standard practices in compliance with the applicable sections, relating to design requirements and allowable stresses of the latest edition of the "AWS Structural Welding Code D1.1 and D1.3".

MATERIALS	ASTM DESIGNATION	MIN. YIELD STRENGTH
Hot Rolled Steel Shapes (W, S, C & L)	A572 / A529	Fy = 50 KSI
Hot Rolled Steel Shapes (W)	A992	Fy = 50 KSI
Round Structural Tubing (HSS)	A500	Fy = 42 KSI
Square / Rect. Structural Tubing	A500	Fy = 46 KSI
Structural Steel Web Plate	A572 / A1011	Fy = 55 KSI
Structural Steel Flange Plates / Bars	A529 / A572	Fy = 55 KSI
Cold Formed Light Gage	A653 / A1D11	Fy = 55 KSI
Roof and Wall Sheets	A792 / A653	Fy = 50, 80 KSI
Cable Brace	A475	Extra High Strength
Rod Brace	A36	Fy = 36 KSI
		MIN. TENSILE STRENGTH
Machine Bolts & Nuts	A307	Fu = 60 KSI
High Strength Bolts (1/2" diam. to 1 1/2 diam.)	A325	Fu = 120 KSI
Anchor Bolts	A36 / A307 / F155 Gr. 36	Fu = 58–80 KSI
THE METAL BUILDING MANUFACTURER RESERVES THE RIGHT TO SUBSTITUTE THE ABOVE MATERIALS WITH EQUAL OR BETTER MATERIAL.		

IAS OR AISC CERTIFIED PLANT PROJECT REQUIREMENT: YES☒ NO☐

Federal Steel Systems

THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE FOLLOWING AS INDICATED

DESIGN LOADS	
DESIGN CODE	IBC 18
RISK CATEGORY	II – Normal
ENCLOSURE	Enclosed
DEAD LOAD (psf)	BUILDING STRUCTURE ONLY
COLLATERAL LOAD (psf)	10.00
WIND LOAD	
WIND SPEED (BASIC OR ULT. PER CODE)	120
WIND IMPORTANCE FACTOR (Iw)	1.00
WIND EXPOSURE	C
INTERNAL PRESSURE COEF., GCPi	0.18 / –0.18
LIVE LOAD	
PRIMARY FRAMING (psf)	20.00
TRIBUTARY AREA REDUCTION	No
SECONDARY FRAMING (psf)	20.00
SNOW LOAD	
GROUND SNOW LOAD, Pg (psf)	10
ROOF SNOW LOAD, Pf (psf)	7.00
SLOPED ROOF SNOW LOAD, Ps (psf)	Pf x Cs
SNOW EXPOSURE FACTOR, Ce	1.0000
SNOW IMPORTANCE FACTOR, Is	1.0000
THERMAL FACTOR, Ct	1.00
SLOPED FACTOR, Cs	
SEISMIC LOAD	
SEISMIC IMPORTANCE FACTOR, Ie	1.00
SEISMIC OCCUPANCY CATEGORY	II – Normal
SITE CLASS	d
MAPPED SPECTRAL RESPONSE ACCEL.	Ss = 0.186 S1 = 0.086
SPECTRAL RESPONSE COEFFICIENT	Sds = 0.198 Sd1 = 0.138
SEISMIC DESIGN CATEGORY	C
BASIC FORCE RESISTING SYSTEMS USED	STEEL SYSTEM NOT DETAILED FOR SEISMIC RESISTANCE
	RIGID FRAMES
	BRACED FRAMES
TOTAL DESIGN BASE SHEAR, V (kips)	TRANSVERSE = 4.46
	LONGITUDINAL = 3.82
RESPONSE MODIFICATION FACTORS, R	RIGID FRAMES = 3
	END WALL BRACING = 3
	SIDE WALL BRACING = 3
SEISMIC RESPONSE COEFFICIENT, Cs	RIGID FRAMES = 0.066
	E. W. X BRACING = 0.066
	S. W. X BRACING = 0.066
ANALYSIS PROCEDURE USED	EQUIV. LATERAL FORCE PROCEDURE
RAINFALL INTENSITY (inches /Hr)	I1 = 7.0600 I2 = 8.6900

FRAMING / PANELS AND TRIMS	
FRAMING COATING	
PRIMARY & SECONDARY	RED–OXIDE
ROOF PANELS	
GA / PANEL TYPE	24 / 24" DOUBLE–LOK
PANEL COLOR	TRUE BLACK
ROOF TRIM COLORS:	
GA / EAVE COLOR	26 / TRUE BLACK
GA / GUTTER COLOR	26 / TRUE BLACK
GA / GABLE COLOR	26 / TRUE BLACK
WALL PANELS	
GA. / PANEL TYPE	BOARD & BATTEN BY OTHERS
PANEL COLOR	
WALL TRIM COLORS	
GA / CORNER COLOR	BY OTHERS
GA / OPENING COLOR	BY OTHERS
GA / DOWNSPOUT COLOR	26 / TRUE BLACK
GA / BASE TRIM COLOR	BY OTHERS
WAINSCOT PANELS	
GA / PANEL TYPE	
PANEL COLOR	
WAINSCOT TRIM	
WAINSCOT TRIM COLOR	
LINER ROOF PANELS	
GA / PANEL TYPE	
PANEL COLOR	
LINER WALL PANELS	
GA / PANEL TYPE	
PANEL COLOR	
LINER TRIM	
LINER TRIM COLOR	
PARTITION PANELS	
GA / PANEL TYPE	
PANEL COLOR	
PARTITION TRIM	
PARTITION TRIM COLOR	
SOFFIT PANELS	
GA / PANEL TYPE	26 / REV. PBR
PANEL COLOR	TRUE BLACK
SOFFIT TRIM	
SOFFIT TRIM COLOR	TRUE BLACK
FASCIA PANELS	
GA / FRONT PANEL TYPE	
FRONT PANEL COLOR	
GA / BACK PANEL TYPE	
BACK PANEL COLOR	
FASCIA TRIM	
FASCIA TRIM COLOR	

FLOOR LOADS	
	FLOOR
DEAD LOAD (psf)	40.0000
PARTITION DEAD LOAD (psf)	10.0000
COLLATERAL LOAD ABOVE (psf)	5.0000
COLLATERAL LOAD BELOW (psf)	5.0000
LIVE LOAD (psf)	80.0000

DESIGN NOTES:
BUILDING WAS DESIGN WITH ABOVE FLOOR LOADS. CONSIDERED ALL FLOOR MEMBER ARE BY OTHERS.

DEFLECTION LIMITS:	
EW COLUMN:	180
EW RAFTER LIVE:	180
EW RAFTER WIND:	180
WALL GIRT:	90
PURLIN LIVE:	180
PURLIN WIND:	150
WALL PANEL:	60
ROOF PANEL LIVE:	60
ROOF PANEL WIND:	60
RF HORIZONTAL:	60
RF VERTICAL:	180
WIND BENT:	60
RF CRANE:	100
RF SEISMIC:	50
WIND BENT SEIS.:	50

DELIVERY

1. Customer is responsible for verifying that the Goods listed on the Bill of Lading are received. All shortages and/or damages must be noted, in writing, on the Bill of Lading prior to Buyer signing the Bill of Lading. Failure by the Customer to document shortages of the number of packages or damages within (5) days of delivery or pickup shall waive any claim of such shortage and/or damage. It is Customer's responsibility to retain a copy of the Bill of Lading documenting any shortages and/or damages. Loss of the Bill of Lading shall also waive any right to claim any shortage and/or damage.
2. Building Supplier is not obligated to send Goods by overnight air freight, direct truck line, or other expedited method unless Buyer prepays for such services. Building Supplier shall not be responsible for loss or damage to Goods that occur after tender for pick up or delivery. Seller shall have no obligation to remove or dismantle defective parts or to erect or install replacement parts. Back charges that are not accepted by Building Supplier in writing shall have no effect and Buyer's account may be placed on immediate Credit Hold until resolution. Building Supplier shall not be responsible or financially liable for delivery delays or any of Customer's costs expended on remedies unauthorized by Building Supplier, including, but not limited to, Customer's erection crew expense or rental equipment costs or liquidated or consequential damages of any kind.
3. In the event that parts are damaged during transit, pictures including piece marks should be taken and reported immediately to the Buyer. A replacement part and redelivery date will be coordinated with the manufacturer. Any missing parts should be circled on the Bill of Lading and returned to the driver and reported to the Buyer for immediate resolution

ERECTION NOTES

1. All bracing shown and provided by Building Supplier for this building is required and shall be installed by the ERECTOR as a permanent part of the structure ("Code of Standard Practice for Steel Buildings and Bridges" in the AISC 15th edition Manual; Section 7.9).
2. Temporary supports, such as guys, braces, false work, cribbing or other elements required for the erection operation shall be determined and furnished by the ERECTOR ("Code of Standard Practice for Steel Buildings and Bridges" in the AISC 15th edition Manual; Section 7.9).
3. Normal erection operations include the correction of minor misfits by moderate amounts of reaming, chipping, or cutting and the drawing of elements into line through use of drift pins. Errors which require major changes in the member configuration are to be reported immediately to Building Supplier by the CUSTOMER to enable whoever is responsible either to correct the error or to approve the most efficient and economic method of correction to be used by others ("Code of Standard Practice for Steel Buildings and Bridges" in the AISC 15th edition Manual; Section 7.12).
4. Erection tolerances are set forth in AISC Code of Standard Practice 7.11 except that individual members are considered plumb, level and aligned if the deviation does not exceed 1:300. Variations in finished overall dimensions of structural steel framing are deemed within the limits of good practice when they do not exceed the cumulative effect of rolling, fabricating, and erection tolerances. 4.1. When crane support systems are part of the metal building system erection tolerances Section 9, Common Industry Practices, 2018 MBSM Manual shall apply. To achieve the required tolerances grouting of the columns and shimming of the runway beams may be required. The CUSTOMER should provide grout if required. The CONTRACTOR erecting the runway beams is responsible for shimming, plumbing, and leveling of the runway system. When aligning the runway beams the alignment shall be with respect to the beam webs so that the center of the aligned rail is over the runway web.
5. As a general rule field welding is not used to assemble a metal building system. In cases where the drawings indicate field welding and in cases where approved corrections are to be made by field welding the following requirements shall be met: 5.1. Welders must be qualified by an independent testing agency, with suitable documentation to AWS D1.1 Structural Welding Code Steel or AWS D1.3 Structural Welding Code – Sheet Steel as applicable, for the processes, positions, and materials involved. 5.2. All welds must be made in conformance to a documented and approved Welding Procedure Specification (WPS). All joints which are not pre–qualified must be supported by a certified Procedure Qualification Record (PQR) by an independent testing agency.
6. All documentation and records shall be the responsibility of the CUSTOMER.
7. Neither Building Supplier nor the CUSTOMER will cut, drill or otherwise alter their work, or the work of other trades to accommodate other trades unless such work is clearly specified in the contract documents. Whenever such work is specified the CUSTOMER is responsible for furnishing complete information as to materials, size, location, and number of alterations prior to preparation of shop drawings ("Code of Standard Practice for Steel Buildings and Bridges" in the AISC Manual; Section 7.13).
8. Field Modifications Policy.
   - 8.1. Building Supplier will only be responsible for the field–modified parts designed and approved by the Building Supplier's Engineering Department.
   - 8.2. Any field modifications designed by third parties may not be approved by Building Supplier and may limit Building Supplier's warranty and liability
   - 8.3. Building Supplier makes no warranty and hereby disclaims any responsibility with respect to the design, engineering, or construction of any field–modified parts performed by third parties.
9. The correction of minor misfits by the use of drift pins to draw the components into line, shimming, moderate amounts of reaming, chipping and cutting, and the replacement of minor shortages of material are a normal part of erection and are not subject to claim.
10. Visible gaps between column and/or rafter connection plates can occur as a result of various causes without critical effect to the structural integrity. Minimal shimming at bolt locations is considered acceptable regardless of material yield and does not require full surface contact of the connection plates. The purpose of shimming, besides any aesthetic benefits, is to provide resistance to the tightening procedures of high–strength bolts for proper installation. The types of shim can be of a uniform thickness, full size, tapered or notched around bolts to permit installation without removal of bolts. Bolt holes oversized by 3/16 inches are permitted in full–size shims to facilitate alignment. For further information regarding shimming, refer to the AISC publication, "Engineering for Steel Construction". In the event of connection gaps, the manufacturer must be consulted for approval and specific recommendations for proper shimming.
11. The Building Supplier, through its CS Manager, must be notified at once when a condition becomes apparent that may result in a backcharge by the Erector. Notification by phone must be confirmed in writing. Some approximation of the amount of the backcharge must be established at this time and an authorization before the work is started. Building Supplier will not honor any field corrections or backcharges unless prior notice has been given and agreed upon. All discrepancies must be agreed upon, in writing, Any work which is undertaken without such notification and authorization will not be honored as a backcharge.
    - 11.1 Description of nature and extent of the errors, including piece marks, quantities, photos, and measurements, where applicable.
    - 11.2 Description of nature and extent of proposed corrective work including estimated man–hours.
    - 11.3 Material to be purchased from other than the Building Supplier, including estimated quantities and cost.
12. WARNING in no case should Galvalume steel panels be used in conjunction with lead or copper. Both lead and copper have harmful corrosive effects on the Galvalume alloy coating when they are in contact with Galvalume steel panels. Even run–off from copper flashing, wiring, or tubing onto Galvalume should be avoided.
13. 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 should always be followed to help insure workers safety. Make certain 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.
14. Roof drainage systems (gutter, downspouts, etc.) must be free of any obstruction to ensure smooth operation at any given time.
15. Roof snow accumulations in excess of specified project design loading criteria can cause significant distress to the building structural system. It is recommended that roof be cleared of snow by the CUSTOMER Refer to A9.4 for Snow/Ice Removal procedure by Metal Building Systems Manual. A copy is available upon request.

DRAWING INDEX		
ISSUE	DESCRIPTION	PAGE
0	PANEL ZONE LAYOUT	C2
0	ANCHOR BOLT PLAN	F1
0	ANCHOR BOLT BASE DETAILS	F2
0	ANCHOR BOLT REACTIONS	F3
0	FRAMING AND BRACING PLAN	E1
0	ROOF FRAMING PLAN	E2
0	ROOF SHEETING PLAN	E3–E4
0	RIGID FRAME ELEVATION	E5–E9
0	ENDWALL FRAMING ELEVATION	E10–E11
0	SIDEWALL FRAMING ELEVATION	E12–E13
0	WIND BENT ELEVATION	E14–E15
0	STANDARD DETAILS	S1–S10

BUILDING DESCRIPTION	
WIDTH (FT)	40
LENGTH (FT)	90
BACK SIDE WALL EAVE HEIGHT (FT)	20
FRONT SIDE WALL EAVE HEIGHT (FT)	20
BACK SIDE WALL ROOF SLOPE	4.0:12
FRONT SIDE WALL ROOF SLOPE	4.0:12
BAY SPACING (FT)	SEE PLAN

FOR CONSTRUCTION

NORTH CAROLINA PROFESSIONAL SEAL 15319 ENGINEER FREDERICK D CAMPANA

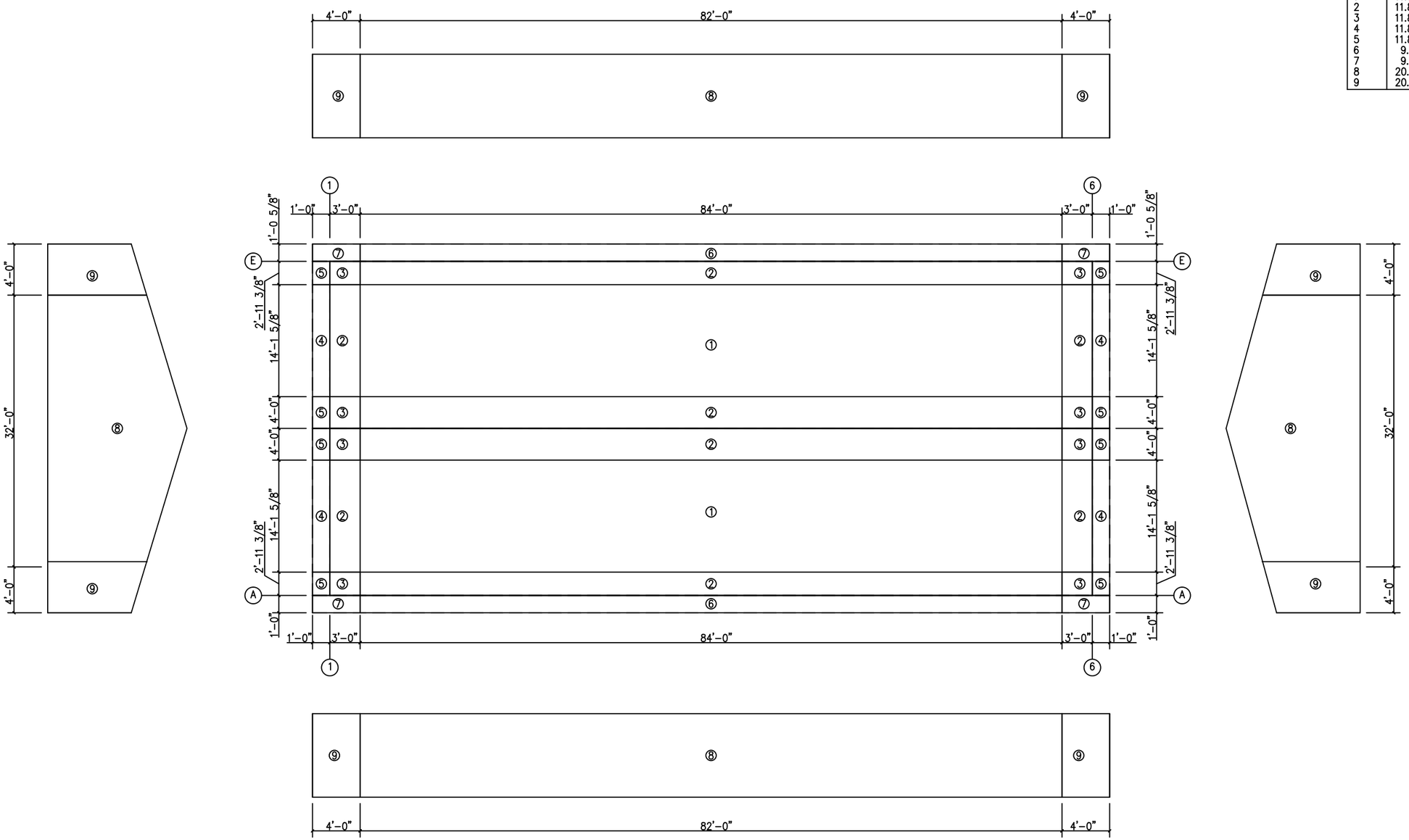
08/22/2025

Federal Steel Systems

BUYER / CUSTOMER	DANIEL WHITE
END USER	DANIEL WHITE
END USE	OTHER
STREET	499 PARTIN RD
CITY, STATE, ZIP	DUNN, NC 28339
COUNTY	HARNETT COUNTY

S.O.#	J–113945	JOB#	J–113945	SCALE	N.T.S.	DWG#	C1 TO C2

COMPONENTS AND CLADDING LOAD GROUP: Standard				
	Member		Panel	
O Id	Pressure	Suction	Pressure	Suction
1	11.85	-18.82	11.85	-18.82
2	11.85	-32.55	11.85	-32.55
3	11.85	-48.36	11.85	-48.36
4	11.85	-38.38	11.85	-38.38
5	11.85	-64.54	11.85	-64.54
6	9.60	-29.62	9.60	-29.62
7	9.60	-45.31	9.60	-45.31
8	20.56	-22.30	20.56	-22.30
9	20.56	-27.43	20.56	-27.43



PANEL ZONE LAYOUT
(Wind Pressures, Factored (psf))

ISSUE	DESCRIPTION	DATE	DRN	CHK	DES
A	FOR PERMIT	07.21.2025	KUM	JSK	GFA
0	FOR CONSTRUCTION	07.28.2025	KUM	JSK	GFA

Federal Steel Systems

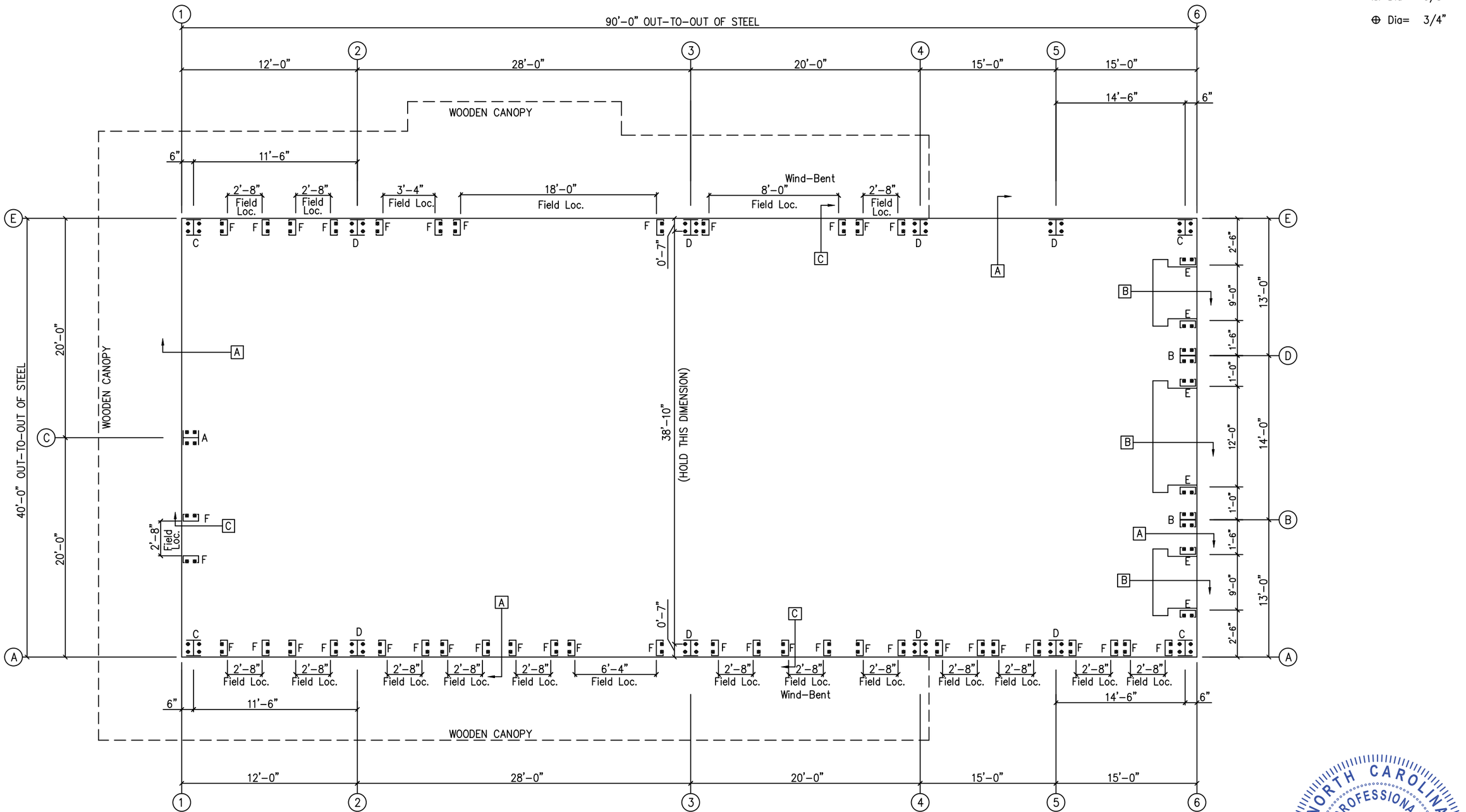
DESCRIPTION	PANEL ZONE LAYOUT					
BUYER / CUSTOMER	DANIEL WHITE					
END USER	DANIEL WHITE					
END USE	OTHER					
STREET	499 PARTIN RD					
CITY, STATE, ZIP	DUNN, NC 28339					
COUNTY	HARNETT					
JOB#	J-113945	J-113945	SCALE	N.T.S.	DWG#	C2 OF C2

SEALING OF THIS DRAWING DOES NOT IMPLY OR CONSTITUTE THAT FSS ENGINEER IS THE ENGINEER OF RECORD OR THE DESIGN PROFESSIONAL FOR THIS PROJECT. ONLY THE DESIGN OF THE METAL BUILDING SYSTEM AS FURNISHED BY THE FABRICATOR IS INCLUDED. FOUNDATION ANALYSIS, ELECTRICAL AND MECHANICAL SYSTEMS AND / OR OTHER PARTS SUPPLIED BY ANYONE OTHER THAN THE FABRICATOR ARE SPECIFICALLY EXCLUDED. NO INSPECTION OR SUPERVISION IS IMPLIED.

FOR CONSTRUCTION

NORTH CAROLINA PROFESSIONAL SEAL 15319 ENGINEER FREDERICK CAMPANA

08/22/2025



ANCHOR BOLT PLAN

NOTE: All Base Plates @ 100'-0" (U.N.)

ISSUE	DESCRIPTION	DATE	DRN	CHK	DES
0	FOR CONSTRUCTION	07.28.2025	KUM	JSK	GFA

Federal Steel Systems

DESCRIPTION	ANCHOR BOLT PLAN					
BUYER / CUSTOMER	DANIEL WHITE					
END USER	DANIEL WHITE					
END USE	OTHER					
STREET	499 PARTIN RD					
CITY, STATE, ZIP	DUNN, NC 28339					
COUNTY	HARNETT					
JOB#	J-113945	J-113945	SCALE	N.T.S.	DWG#	F1 OF F3

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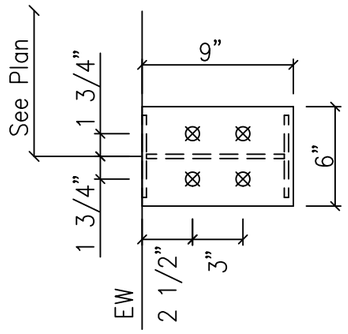
FOR CONSTRUCTION

NORTH CAROLINA PROFESSIONAL SEAL 15319 ENGINEER FREDERICK SCAMPANA

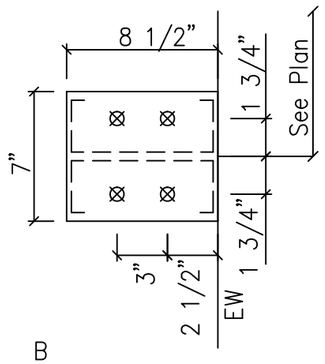
08/22/2025

Dia= 5/8"
Thk= 3/8"



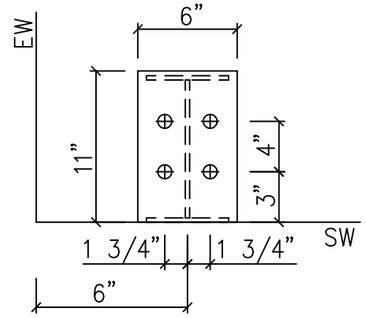
DETAIL A

Dia= 5/8"
Thk= 1/4"



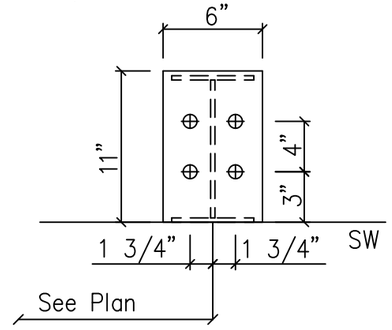
DETAIL B

Dia= 3/4"
Thk= 3/8"



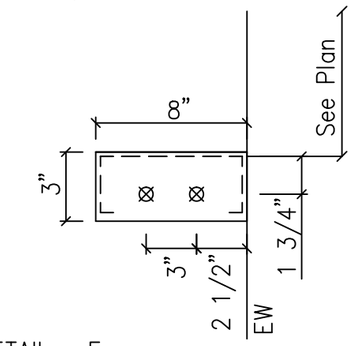
DETAIL C

Dia= 3/4"
Thk= 3/8"



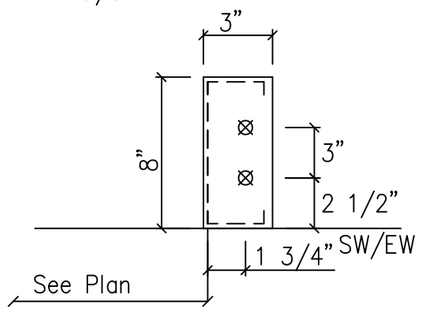
DETAIL D

Dia= 5/8"
Thk= 3/8"

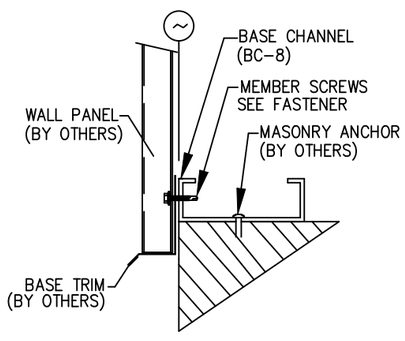


DETAIL E

Dia= 5/8"
Thk= 3/8"

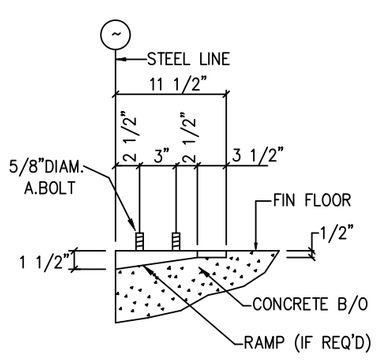


DETAIL F



SECTION "A"

NTS



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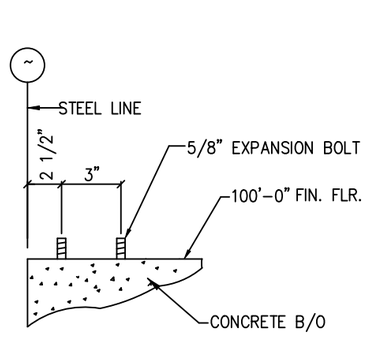
NTS



SECTION "C"

NTS

ISSUE	DESCRIPTION	DATE	DRN	CHK	DES
0	FOR CONSTRUCTION	07.28.2025	KUM	JSK	GFA

Federal Steel Systems

DESCRIPTION	ANCHOR BOLT BASE DEATILS
BUYER / CUSTOMER	DANIEL WHITE
END USER	DANIEL WHITE
END USE	OTHER
STREET	499 PARTIN RD
CITY, STATE, ZIP	DUNN, NC 28339
COUNTY	HARNETT

JOB#	J-113945	J-113945	SCALE	N.T.S.	DWG#	F2 OF F3

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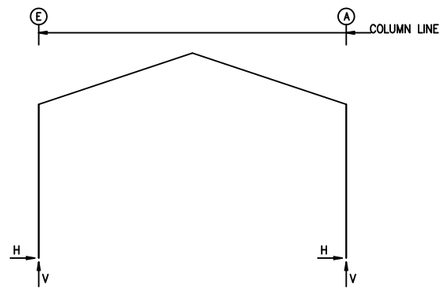
FOR CONSTRUCTION

NORTH CAROLINA PROFESSIONAL SEAL 15319 ENGINEER FREDERICK P CAMPANA

08/22/2025

FRAME LINES: 1 2 3 4 5 6



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

Frm Line	Col Line	Column_Reactions(k) Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Bolt(in) Qty	Dia	Base_Plate(in) Width	Length	Thick	Grout (in)
1	E	12	3.5	4.0	9	−3.5	3.6	4	0.750	6.000	11.00	0.375	0.0
		2	−0.1	10.5	5	−1.5	−1.7						
1	A	10	3.5	3.6	11	−3.5	4.0	4	0.750	6.000	11.00	0.375	0.0
		2	0.1	10.5	6	1.5	−1.7						

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

Frm Line	Col Line	Column_Reactions(k) Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Bolt(in) Qty	Dia	Base_Plate(in) Width	Length	Thick	Grout (in)
2	E	4	4.9	25.7	7	−4.8	−0.2	4	0.750	6.000	11.00	0.375	0.0
		2	3.4	28.6	5	−4.2	−2.7						
2	A	8	4.8	−0.2	3	−4.9	25.7	4	0.750	6.000	11.00	0.375	0.0
		2	−3.4	28.6	6	4.2	−2.7						

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

Frm Line	Col Line	Column_Reactions(k) Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Bolt(in) Qty	Dia	Base_Plate(in) Width	Length	Thick	Grout (in)
3*	E	4	5.8	31.1	7	−5.4	0.3	4	0.750	6.000	11.00	0.375	0.0
		2	4.1	34.4	5	−4.7	−2.7						
3*	A	8	5.4	0.3	3	−5.8	31.1	4	0.750	6.000	11.00	0.375	0.0
		2	−4.1	34.4	6	4.7	−2.7						

3* Frame lines: 3 4 5

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

Frm Line	Col Line	Column_Reactions(k) Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Bolt(in) Qty	Dia	Base_Plate(in) Width	Length	Thick	Grout (in)
6	E	12	3.5	4.4	9	−3.5	4.6	4	0.750	6.000	11.00	0.375	0.0
		2	−0.1	12.5	5	−1.6	−1.9						
6	A	10	3.5	4.6	11	−3.5	4.4	4	0.750	6.000	11.00	0.375	0.0
		2	0.1	12.5	6	1.6	−1.9						

ENDWALL COLUMN: BASIC COLUMN REACTIONS (k)

Frm Line	Col Line	Dead Vert	Collat Vert	Floor Live Vert	Wind Press Horz	Wind Suct Horz	Seis Long Vert
1	C	0.8	0.1	0.6	−6.9	7.6	0.0
6	B	0.8	0.1	0.8	−4.1	4.5	0.0
6	D	0.8	0.1	0.8	−4.1	4.5	0.0

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

Frm Line	Col Line	Column_Reactions(k) Load Id	Hmax H	V Vmax	Load Id	Hmin H	V Vmin	Bolt(in) Qty	Dia	Base_Plate(in) Width	Length	Thick	Grout (in)
1	C	13	4.6	0.5	14	−4.1	0.5	4	0.625	6.000	9.000	0.375	0.0
		1	0.0	1.4									
6	B	13	2.7	0.5	14	−2.5	0.5	4	0.625	7.000	8.500	0.250	0.0
		1	0.0	1.7									
6	D	13	2.7	0.5	14	−2.5	0.5	4	0.625	7.000	8.500	0.250	0.0
		1	0.0	1.7									

RIGID FRAME: BASIC COLUMN REACTIONS (k)

Frame Line	Column Line	Dead Horz	Dead Vert	Collateral Horz	Collateral Vert	Live Horz	Live Vert	Floor Horz	Floor Vert	Snow Horz	Snow Vert	Wind_Left1 Horz	Wind_Left1 Vert
1	E	0.0	3.4	0.0	2.0	−0.1	3.1	0.1	3.6	0.0	1.1	−2.4	−6.3
1	A	0.0	3.4	0.0	2.0	0.1	3.2	−0.1	3.6	0.0	1.1	−2.8	−3.0

Frame Line	Column Line	Wind_Right1 Horz	Wind_Right1 Vert	Wind_Left2 Horz	Wind_Left2 Vert	Wind_Right2 Horz	Wind_Right2 Vert	Wind_Long1 Horz	Wind_Long1 Vert	Wind_Long2 Horz	Wind_Long2 Vert	Seismic_Left Horz	Seismic_Left Vert
1	E	2.8	−3.0	−2.8	−4.8	2.4	−1.4	0.9	−3.2	0.4	−3.0	−4.9	−2.9
1	A	2.5	−6.3	−2.4	−1.4	2.8	−4.8	−0.4	−3.0	−0.9	−3.2	−4.9	2.9

Frame Line	Column Line	Seismic_Right Horz	Seismic_Right Vert	Seismic_Long1 Horz	Seismic_Long1 Vert	Seismic_Long2 Horz	Seismic_Long2 Vert	F1UNB_SL_L Horz	F1UNB_SL_L Vert	F1UNB_SL_R Horz	F1UNB_SL_R Vert
1	E	4.9	2.9	0.0	−3.1	0.0	3.1	0.0	1.1	0.0	0.7
1	A	4.9	−2.9	0.0	−3.1	0.0	3.1	0.0	0.7	0.0	1.1

Frame Line	Column Line	Dead Horz	Dead Vert	Collateral Horz	Collateral Vert	Live Horz	Live Vert	Floor Horz	Floor Vert	Snow Horz	Snow Vert	Wind_Left1 Horz	Wind_Left1 Vert
2	E	0.3	8.7	1.3	5.6	2.6	8.4	−0.2	10.6	0.9	2.9	−7.2	−13.2
2	A	−0.3	8.7	−1.3	5.6	−2.6	8.4	0.2	10.6	−0.9	2.9	−3.3	−6.5

Frame Line	Column Line	Wind_Right1 Horz	Wind_Right1 Vert	Wind_Left2 Horz	Wind_Left2 Vert	Wind_Right2 Horz	Wind_Right2 Vert	Wind_Long1 Horz	Wind_Long1 Vert	Wind_Long2 Horz	Wind_Long2 Vert	Seismic_Left Horz	Seismic_Left Vert
2	E	3.3	−6.5	−8.2	−9.0	2.3	−2.3	2.1	−8.5	0.9	−8.0	−0.4	−0.4
2	A	7.2	−13.2	−2.3	−2.3	8.2	−9.0	−0.9	−8.0	−2.1	−8.5	−0.4	0.4

Frame Line	Column Line	Seismic_Right Horz	Seismic_Right Vert	Seismic_Long1 Horz	Seismic_Long1 Vert	Seismic_Long2 Horz	Seismic_Long2 Vert	F2UNB_SL_L Horz	F2UNB_SL_L Vert	F2UNB_SL_R Horz	F2UNB_SL_R Vert
2	E	0.4	0.4	0.1	−3.1	−0.1	3.1	0.8	2.9	0.8	1.8
2	A	0.4	−0.4	−0.1	−3.1	0.1	3.1	−0.8	1.8	−0.8	2.9

Frame Line	Column Line	Dead Horz	Dead Vert	Collateral Horz	Collateral Vert	Live Horz	Live Vert	Floor Horz	Floor Vert	Snow Horz	Snow Vert	Wind_Left1 Horz	Wind_Left1 Vert
3*	E	0.3	10.5	1.6	6.7	3.1	10.1	−0.2	12.9	1.1	3.5	−8.1	−14.9
3*	A	−0.3	10.5	−1.6	6.7	−3.1	10.1	0.2	12.9	−1.1	3.5	−3.7	−7.4

Frame Line	Column Line	Wind_Right1 Horz	Wind_Right1 Vert	Wind_Left2 Horz	Wind_Left2 Vert	Wind_Right2 Horz	Wind_Right2 Vert	Wind_Long1 Horz	Wind_Long1 Vert	Wind_Long2 Horz	Wind_Long2 Vert	Seismic_Left Horz	Seismic_Left Vert
3*	E	3.7	−7.4	−9.3	−9.9	2.5	−2.4	2.5	−14.6	1.1	−14.1	−0.5	−0.5
3*	A	8.1	−14.9	−2.5	−2.4	9.3	−9.9	−1.1	−14.1	−2.5	−14.6	−0.5	0.5

Frame Line	Column Line	Seismic_Right Horz	Seismic_Right Vert	Seismic_Long1 Horz	Seismic_Long1 Vert	Seismic_Long2 Horz	Seismic_Long2 Vert	F3UNB_SL_L Horz	F3UNB_SL_L Vert	F3UNB_SL_R Horz	F3UNB_SL_R Vert
3*	E	0.5	0.5	0.0	−1.8	0.0	1.8	1.0	3.5	1.0	2.1
3*	A	0.5	−0.5	0.0	−1.8	0.0	1.8	−1.0	2.1	−1.0	3.5

Frame Line	Column Line	Dead Horz	Dead Vert	Collateral Horz	Collateral Vert	Live Horz	Live Vert	Floor Horz	Floor Vert	Snow Horz	Snow Vert	Wind_Left1 Horz	Wind_Left1 Vert
6	E	0.0	4.0	−0.1	2.4	−0.1	3.7	0.1	4.4	0.0	1.3	−2.7	−7.2
6	A	0.0	4.0	0.1	2.4	0.1	3.7	−0.1	4.4	0.0	1.3	−3.1	−3.4

Frame Line	Column Line	Wind_Right1 Horz	Wind_Right1 Vert	Wind_Left2 Horz	Wind_Left2 Vert	Wind_Right2 Horz	Wind_Right2 Vert	Wind_Long1 Horz	Wind_Long1 Vert	Wind_Long2 Horz	Wind_Long2 Vert	Seismic_Left Horz	Seismic_Left Vert
6	E	3.1	−3.4	−3.2	−5.4	2.7	−1.6	1.1	−3.7	0.5	−3.5	−5.0	−3.0
6	A	2.7	−7.2	−2.7	−1.6	3.2	−5.4	−0.5	−3.5	−1.1	−3.7	−5.0	3.0

Frame Line	Column Line	Seismic_Right Horz	Seismic_Right Vert	F4UNB_SL_L Horz	F4UNB_SL_L Vert	F4UNB_SL_R Horz	F4UNB_SL_R Vert
6	E	5.0	3.0	−0.1	1.3	−0.1	0.8
6	A	5.0	−3.0	0.1	0.8	0.1	1.3

3* Frame lines: 3 4 5

BUILDING BRACING REACTIONS

Wall Loc	Wall Line	Col Line	± Reactions(k) Wind Horz	Wind Vert	Seismic Horz	Seismic Vert	Panel_Shear (lb/ft) Wind	Seis	Note
L_EW	1								(h)
F_SW	A	3,4	2.4	4.5	1.0	1.8			(b)
R_EW	6								(h)
B_SW	E	3,4	2.4	4.5	1.0	1.8			(b)

(b)Wind bent in bay, base above finish floor
(h)Rigid frame at endwall

FLOOR BRACING REACTIONS

Orient	Offset	Location Start	Location End	± Reactions(k) Seismic Horz	Seismic Vert
Long	E	1	2	3.1	3.1
Long	D	3	4	3.2	1.2
Long	D	4	6	3.2	1.3
Long	B	3	4	3.2	1.2
Long	B	4	6	3.2	1.3
Long	A	1	2	3.1	3.1

Reactions for seismic represent shear force, Eh
Reaction values shown are unfactored

ANCHOR BOLT SUMMARY

Qty	Locate	Dia (in)	Type	Proj (in)
⊠ 92	Jamb	5/8"	A307	2.00
⊠ 12	Endwall	5/8"	A307	2.00
⊕ 48	Frame	3/4"	A307	2.50

NOTES FOR REACTIONS

Building reactions are based on the following building data:

Width	(ft)	=	40.0
Length	(ft)	=	90.0
Eave Height	(ft)	=	20.0/ 20.0
Roof Slope	(rise/12)	=	4.00/ 4.00
Roof Dead Load	(psf)	=	2.0
Wall Dead Load			
Left Endwall	(psf)	=	2.0
Right Endwall	(psf)	=	2.0
Front Sidewall	(psf)	=	2.0
Back Sidewall	(psf)	=	2.0
Live Load	(psf)	=	20.0
Collateral Load	(psf)	=	10.0
Snow Load	(psf)	=	7.0
Wind Speed	(mph)	=	120.0
Wind Code		=	IBC 18
Exposure		=	C
Closure		=	Enclosed
Internal Wind Coeff		=	−0.18, +0.18
Risk Category		=	II - Normal
Importance - Wind		=	1.00
Importance - Seismic		=	1.00
Seismic Design Category		=	C
Seismic Coeff	(Sms)	=	0.30

ID	Description
1	Dead+Collateral+Floor_Live
2	Dead+Collateral+0.75Live+0.75Floor_Live
3	Dead+Collateral+0.75Live+0.45Wind_Left1+0.75Floor_Live
4	Dead+Collateral+0.75Live+0.45Wind_Right1+0.75Floor_Live
5	0.6Dead+0.6Wind_Left1
6	0.6Dead+0.6Wind_Right1
7	0.6Dead+0.6Wind_Left2
8	0.6Dead+0.6Wind_Right2
9	1.03Dead+1.03Collateral+0.7Seismic_Left
10	1.03Dead+1.03Collateral+0.7Seismic_Right
11	0.57Dead+0.7Seismic_Left
12	0.57Dead+0.7Seismic_Right
13	0.6Dead+0.6Wind_Right2+0.6Wind_Suction
14	0.6Dead+0.6Wind_Pressure+0.6Wind_Long2L

ISSUE	DESCRIPTION	DATE	DRN	CHK	DES
0	FOR CONSTRUCTION	07.28.2025	KUM	JSK	GFA

Federal Steel Systems

DESCRIPTION	ANCHOR BOLT REACTIONS
BUYER / CUSTOMER	DANIEL WHITE
END USER	DANIEL WHITE
END USE	OTHER
STREET	499 PARTIN RD
CITY, STATE, ZIP	DUNN, NC 28339
COUNTY	HARNETT

JOB#	J-113945	J-113945	SCALE	N.T.S.	DWG#	F3 OF F3

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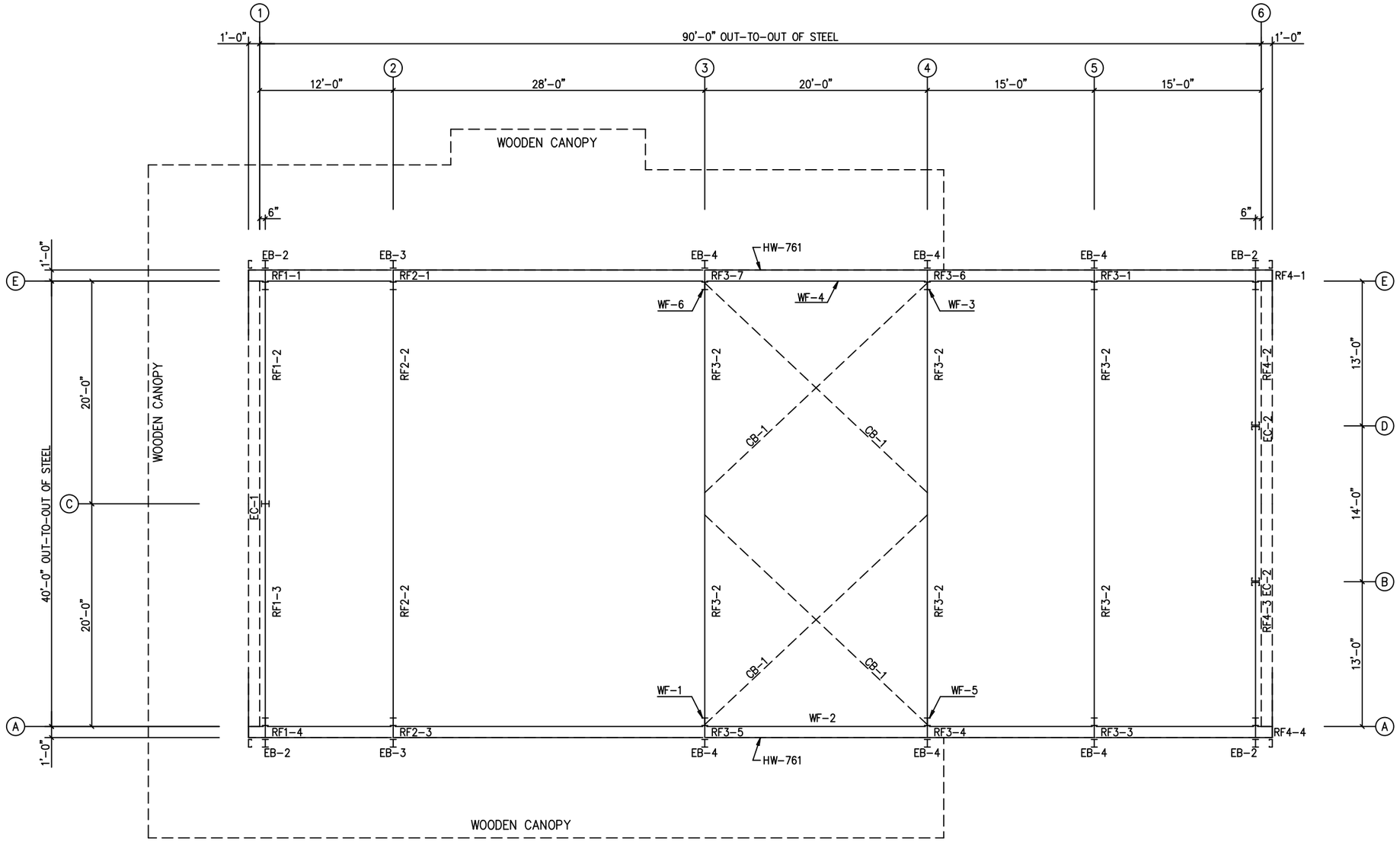
FOR CONSTRUCTION

NORTH CAROLINA PROFESSIONAL SEAL 15319 ENGINEER FREDERICK P CAMPANA

08/22/2025



FRAMING AND BRACING PLAN

ISSUE	DESCRIPTION	DATE	DRN	CHK	DES
A	FOR PERMIT	07.21.2025	KUM	JSK	GFA
0	FOR CONSTRUCTION	07.28.2025	KUM	JSK	GFA

Federal Steel Systems

DESCRIPTION	FRAMING AND BRACING PLAN					
BUYER / CUSTOMER	DANIEL WHITE					
END USER	DANIEL WHITE					
END USE	OTHER					
STREET	499 PARTIN RD					
CITY, STATE, ZIP	DUNN, NC 28339					
COUNTY	HARNETT					
JOB#	J-113945	J-113945	SCALE	N.T.S.	DWG#	E1 OF E15

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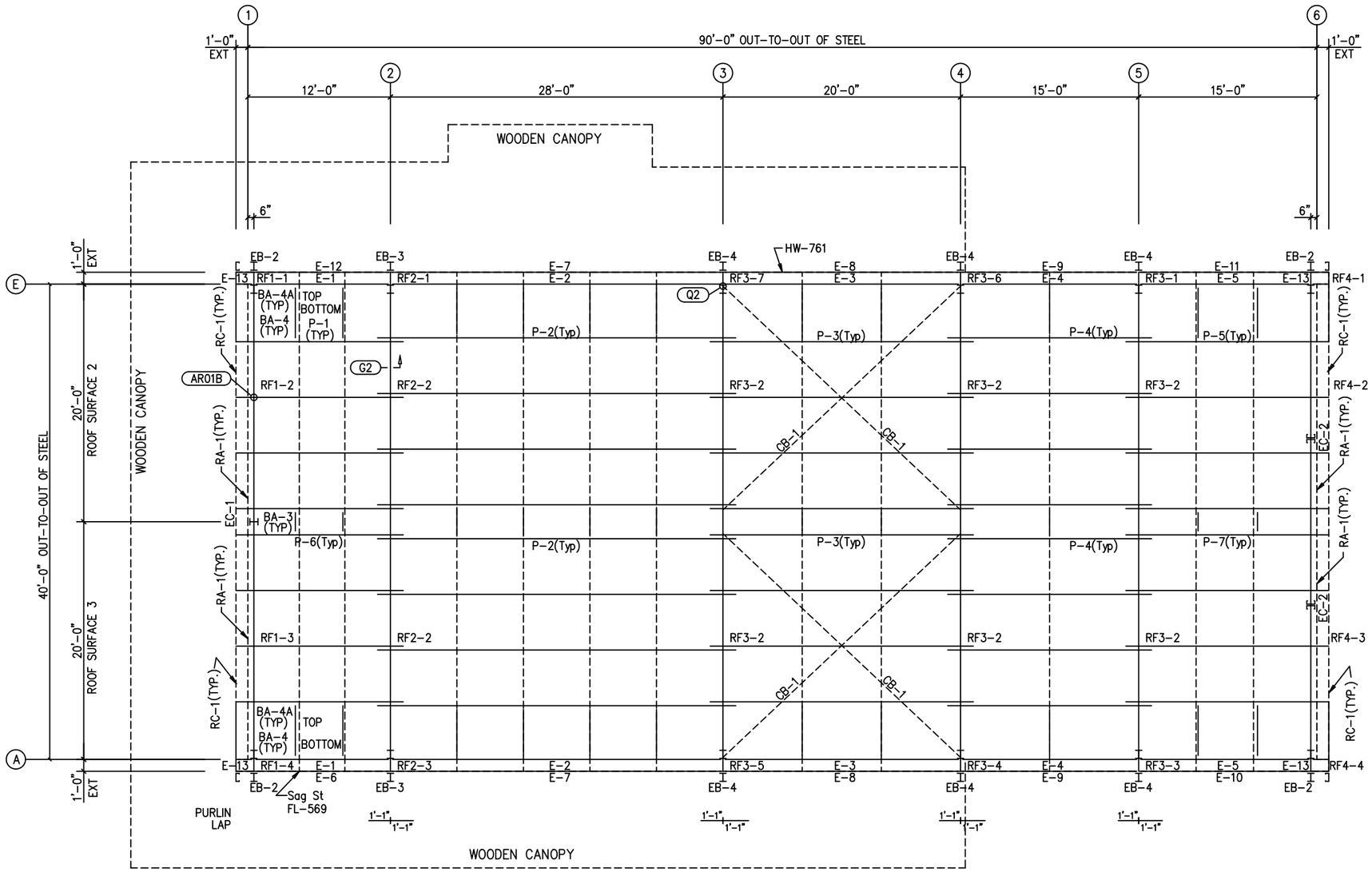
FOR CONSTRUCTION

NORTH CAROLINA PROFESSIONAL SEAL 15319 ENGINEER FREDERICK DICAMPANA

08/22/2025

EXTENSION/CANOPY BOLTS ROOF PLAN				
MARK	QUAN	TYPE	DIA	LENGTH
EB-2	4	A325	5/8"	1 3/4"
EB-3	4	A325	5/8"	1 3/4"
EB-4	4	A325	5/8"	1 3/4"

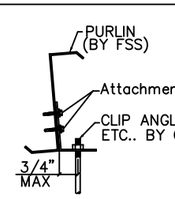
MEMBER TABLE ROOF PLAN		
QUAN	MARK	PART
4	EB-2	W8x10
2	EB-3	W8x10
6	EB-4	W8x10
4	P-1	8x25Z12
8	P-2	8x25Z12
8	P-3	8x25Z12
8	P-4	8x25Z16
4	P-5	8x25Z16
4	P-6	8x25Z12
4	P-7	8x25Z16
2	E-1	E085344L
2	E-2	E085344L
2	E-3	E085344L
2	E-4	E085344L
2	E-5	E085344L
1	E-6	8x25C16
2	E-7	8x25C16
2	E-8	8x25C16
2	E-9	8x25C16
1	E-10	8x25C16
1	E-11	8x25C16
1	E-12	8x25C16
4	E-13	E085344L
4	CB-1	CBL2500
11	BA-3	2x2x14GA
22	BA-4	2x2x14GA
22	BA-4A	2x2x14GA



ROOF FRAMING PLAN

ROOF INSULATION : R32 8+2 THK INSULATION (BY OTHERS)

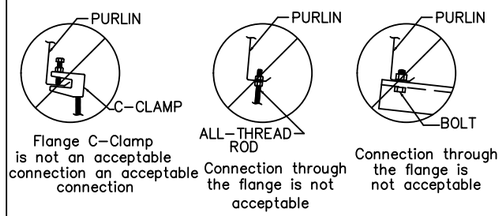
NOTE: FSS ONLY PROVIDES THE roof purlin. All other material and hardware is by others.



Recommended Connection Detail

NOTE: Drilling of holes in flanges of purlins is structurally detrimental to the member. Any collateral loads, which are included in the purlin design loads, are to be attached by connection directly to the web only.

Field Modifications – Warning



ATTACHMENT OF SUSPENDED ITEMS (BY OTHERS)

ISSUE	DESCRIPTION	DATE	DRN	CHK	DES
A	FOR PERMIT	07.21.2025	KUM	KKC	GFA
0	FOR CONSTRUCTION	07.28.2025	KUM	JSK	GFA

Federal Steel Systems

DESCRIPTION	ROOF FRAMING PLAN					
BUYER / CUSTOMER	DANIEL WHITE					
END USER	DANIEL WHITE					
END USE	OTHER					
STREET	499 PARTIN RD					
CITY, STATE, ZIP	DUNN, NC 28339					
COUNTY	HARNETT					
JOB#	J-113945	J-113945	SCALE	N.T.S.	DWG#	E2 OF E15

SEALING OF THIS DRAWING DOES NOT IMPLY OR CONSTITUTE THAT FSS ENGINEER IS THE ENGINEER OF RECORD OR THE DESIGN PROFESSIONAL FOR THIS PROJECT. ONLY THE DESIGN OF THE METAL BUILDING SYSTEM AS FURNISHED BY THE FABRICATOR IS INCLUDED. FOUNDATION ANALYSIS, ELECTRICAL AND MECHANICAL SYSTEMS AND / OR OTHER PARTS SUPPLIED BY ANYONE OTHER THAN THE FABRICATOR ARE SPECIFICALLY EXCLUDED. NO INSPECTION OR SUPERVISION IS IMPLIED.

FOR CONSTRUCTION

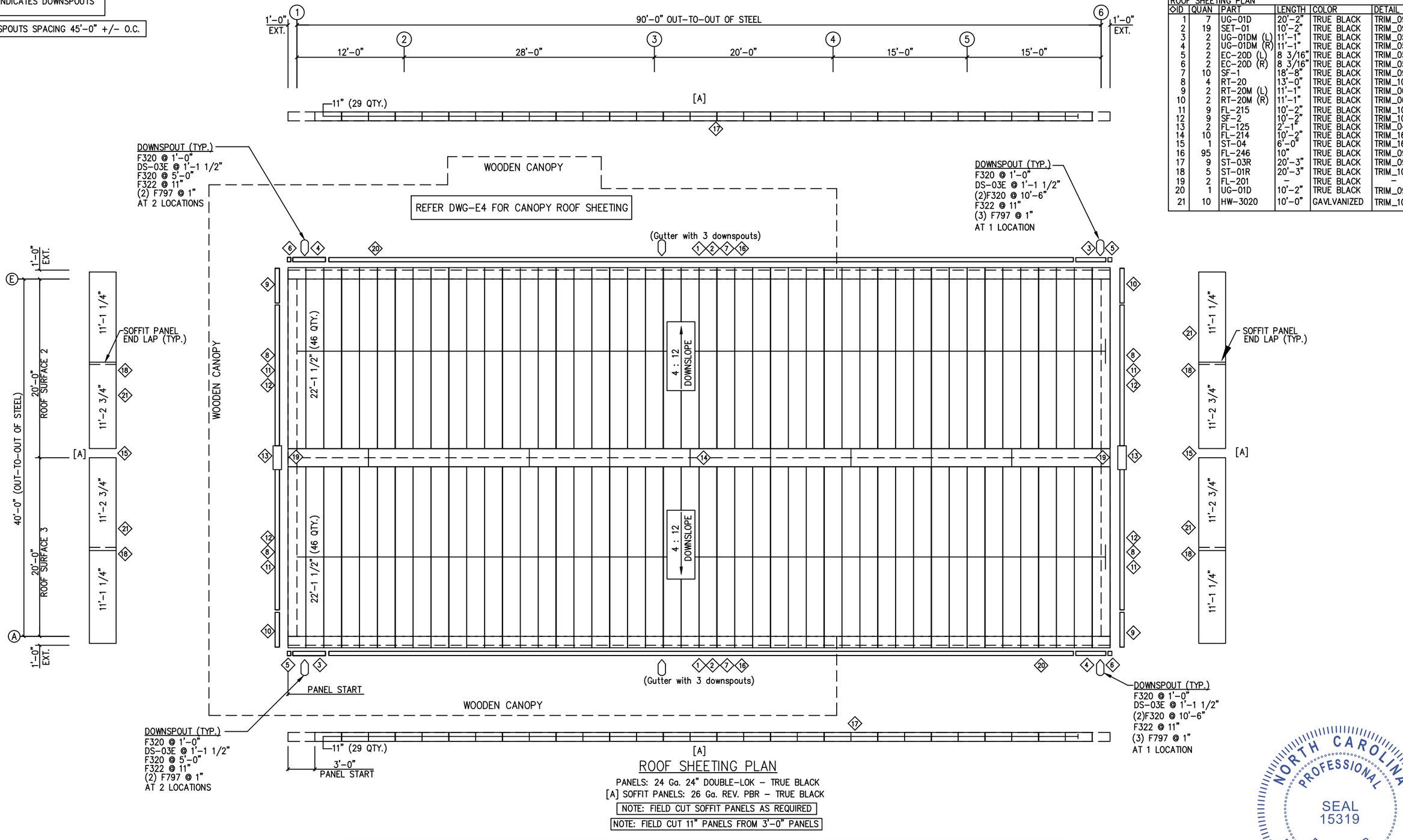
NORTH CAROLINA PROFESSIONAL SEAL 15319 ENGINEER FREDERICK CAMPANA

08/22/2025

INDICATES DOWNSPOUTS

DOWNSPOUTS SPACING 45'-0" +/- O.C.

TRIM TABLE ROOF SHEETING PLAN					
◇ID	QUAN	PART	LENGTH	COLOR	DETAIL
1	7	UG-01D	20'-2"	TRUE BLACK	TRIM_09
2	19	SET-01	10'-2"	TRUE BLACK	TRIM_09
3	2	UG-01DM (L)	11'-1"	TRUE BLACK	TRIM_05
4	2	UG-01DM (R)	11'-1"	TRUE BLACK	TRIM_05
5	2	EC-20D (L)	8 3/16"	TRUE BLACK	TRIM_05
6	2	EC-20D (R)	8 3/16"	TRUE BLACK	TRIM_05
7	10	SF-1	18'-8"	TRUE BLACK	TRIM_09
8	4	RT-20	13'-0"	TRUE BLACK	TRIM_10
9	2	RT-20M (L)	11'-1"	TRUE BLACK	TRIM_06
10	2	RT-20M (R)	11'-1"	TRUE BLACK	TRIM_06
11	9	FL-215	10'-2"	TRUE BLACK	TRIM_10
12	9	SF-2	10'-2"	TRUE BLACK	TRIM_10
13	2	FL-125	2'-1"	TRUE BLACK	TRIM_04
14	10	FL-214	10'-2"	TRUE BLACK	TRIM_16
15	1	ST-04	6'-0"	TRUE BLACK	TRIM_16
16	95	FL-246	10"	TRUE BLACK	TRIM_09
17	9	ST-03R	20'-3"	TRUE BLACK	TRIM_09
18	5	ST-01R	20'-3"	TRUE BLACK	TRIM_10
19	2	FL-201	–	TRUE BLACK	–
20	1	UG-01D	10'-2"	TRUE BLACK	TRIM_09
21	10	HW-3020	10'-0"	GAVLVANIZED	TRIM_10



ROOF SHEETING PLAN

PANELS: 24 Ga. 24" DOUBLE-LOK – TRUE BLACK

[A] SOFFIT PANELS: 26 Ga. REV. PBR – TRUE BLACK

NOTE: FIELD CUT SOFFIT PANELS AS REQUIRED

NOTE: FIELD CUT 11" PANELS FROM 3'-0" PANELS

ISSUE	DESCRIPTION	DATE	DRN	CHK	DES
A	FOR PERMIT	07.21.2025	KUM	JSK	GFA
0	FOR CONSTRUCTION	07.28.2025	KUM	JSK	GFA

Federal Steel Systems

DESCRIPTION	ROOF SHEETING PLAN
BUYER / CUSTOMER	DANIEL WHITE
END USER	DANIEL WHITE
END USE	OTHER
STREET	499 PARTIN RD
CITY, STATE, ZIP	DUNN, NC 28339
COUNTY	HARNETT COUNTY

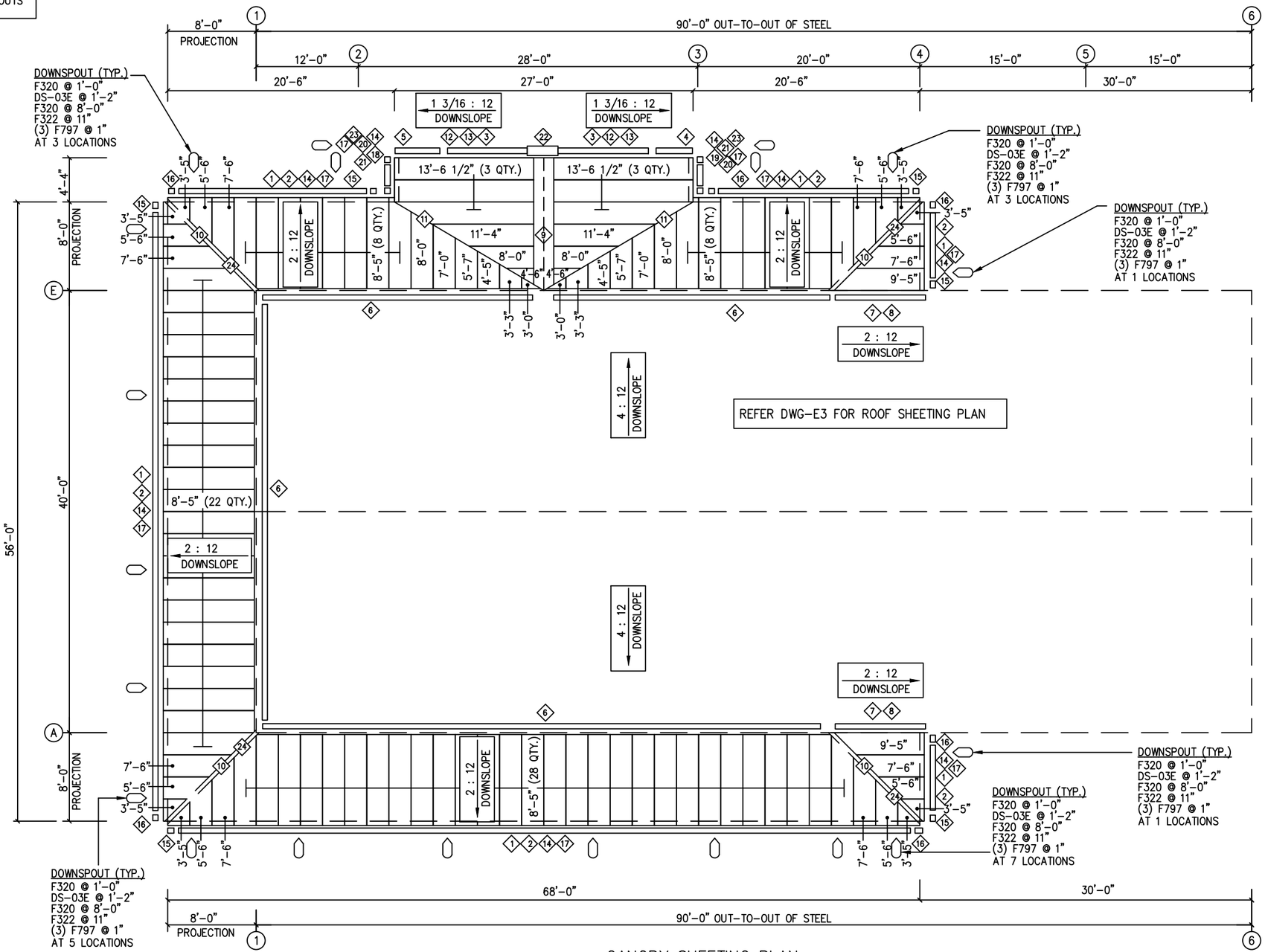
JOB#	J-113945	J-113945	SCALE	N.T.S.	DWG#	E3 OF E15

NORTH CAROLINA PROFESSIONAL SEAL 15319 ENGINEER FREDERICK COMPANA

FOR CONSTRUCTION

08/22/2025

INDICATES DOWNSPOUTS



TRIM TABLE
CANOPY SHEETING PLAN

◇ID	QUAN	PART	LENGTH	COLOR	DETAIL
1	10	UG-01B	20'-2"	TRUE BLACK	TRIM_11
2	10	SF-3	20'-2"	TRUE BLACK	TRIM_11
3	2	RT-20	4'-0"	TRUE BLACK	TRIM_12
4	1	RT-20ML	11'-1"	TRUE BLACK	TRIM_12
5	1	RT-20MR	11'-1"	TRUE BLACK	TRIM_12
6	15	FL-274	10'-2"	TRUE BLACK	TRIM_14
7	2	FL-285	10'-2"	TRUE BLACK	TRIM_13
8	2	FL-292	10'-2"	TRUE BLACK	TRIM_13
9	2	FL-213	10'-2"	TRUE BLACK	TRIM_15
10	4	XFL-214	13'-0"	TRUE BLACK	TRIM_17
11	3	XFL-702	17'-0"	TRUE BLACK	TRIM_18
12	3	FL-215	10'-2"	TRUE BLACK	TRIM_12
13	3	SF-2	10'-2"	TRUE BLACK	TRIM_12
14	20	SET-01	10'-2"	TRUE BLACK	TRIM_11
15	6	EC-20B (L)	7 3/16"	TRUE BLACK	TRIM_05
16	6	EC-20B (R)	7 3/16"	TRUE BLACK	TRIM_05
17	98	FL-246	10"	TRUE BLACK	TRIM_11
18	1	UG-01AL	6'-0"	TRUE BLACK	TRIM_11
19	1	UG-01AR	6'-0"	TRUE BLACK	TRIM_11
20	2	EC-20A (L)	6 11/16"	TRUE BLACK	TRIM_05
21	2	EC-20A (R)	6 11/16"	TRUE BLACK	TRIM_05
22	1	FL-125	2'-1"	TRUE BLACK	TRIM_04
23	2	SF-4	6'-0"	TRUE BLACK	TRIM_11
24	5	FL-360	10'-2"	TRUE BLACK	TRIM_17

CANOPY SHEETING PLAN

PANELS: 24 Ga.24" DOUBLE-LOK - TRUE BLACK

NOTE: FIELD CUT OR BEND CANOPY PANELS AS REQUIRED

NOTE: FOR WOODEN FRAMING CANOPY WE ASSUMED SSR CLIP TYPE AS LOW FLOATING

ISSUE	DESCRIPTION	DATE	DRN	CHK	DES
A	FOR PERMIT	07.21.2025	KUM	JSK	GFA
0	FOR CONSTRUCTION	07.28.2025	KUM	JSK	GFA

Federal Steel Systems

DESCRIPTION	CANOPY ROOF SHEETING PLAN					
BUYER / CUSTOMER	DANIEL WHITE					
END USER	DANIEL WHITE					
END USE	OTHER					
STREET	499 PARTIN RD					
CITY, STATE, ZIP	DUNN, NC 28339					
COUNTY	HARNETT					
JOB#	J-113945	J-113945	SCALE	N.T.S.	DWG#	E4 OF E15

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NORTH CAROLINA PROFESSIONAL SEAL 15319 ENGINEER FREDERICK POMPANA

FOR CONSTRUCTION

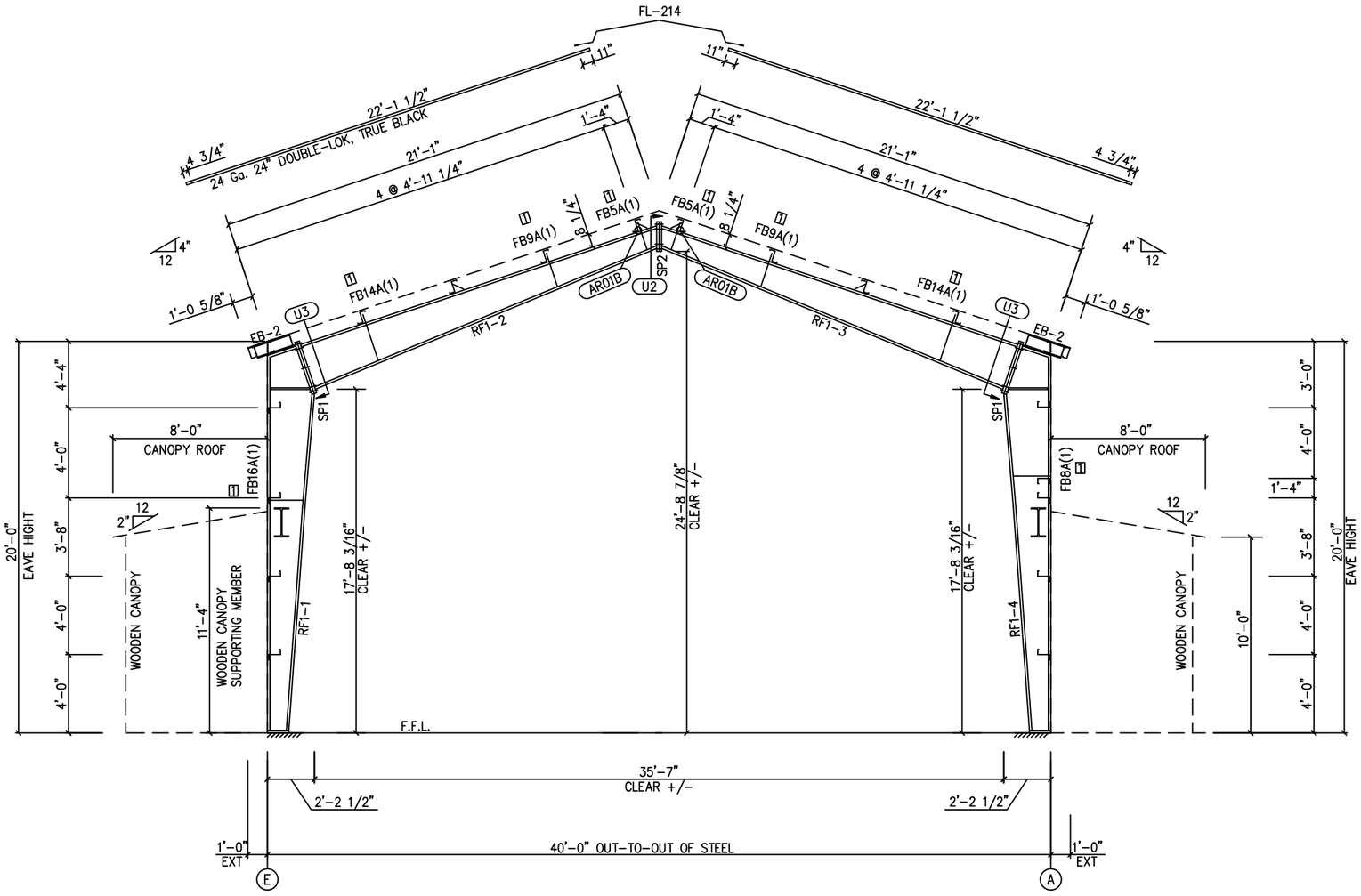
08/22/2025

SPLICE PLATE & BOLT TABLE									
Mark	Qty Top	Bot	Int	Type	Dia	Length	Width	Thick	Length
SP1	4	4	2	A325	0.625	2.25	6"	5/8"	2'-9 5/16"
SP2	4	4	0	A325	0.625	2.25	6"	1/2"	1'-5 3/4"

FLANGE BRACES: Both Sides(U.N.)
FBxxA(1)
A – 2X2X14GA

MEMBER TABLE						
Mark	Length	Web Depth Start/End	Web Plate Thick	Web Plate Length	Outside Flange W x Thk x Length	Inside Flange W x Thk x Length
RF1-1	19'-3 5/16"	10.0/20.0	0.135	11'-6 3/8"	5 x 1/4" x 19'-2 11/16"	5 x 1/4" x 11'-6 11/16"
		20.0/26.0	0.135	5'-9 3/4"	5 x 1/4" x 1'-5 11/16"	5 x 1/4" x 5'-10"
		26.0/16.6	0.188	2'-4 1/8"		
RF1-2	19'-6 11/16"	26.0/10.0	0.135	19'-5 7/16"	5 x 1/4" x 19'-5 7/16"	5 x 1/4" x 19'-2 9/16"
RF1-3	19'-6 11/16"	10.0/26.0	0.135	19'-5 7/16"	5 x 1/4" x 19'-5 7/16"	5 x 1/4" x 19'-2 9/16"
RF1-4	19'-3 5/16"	16.6/26.0	0.188	2'-4 1/8"	5 x 1/4" x 1'-5 11/16"	5 x 1/4" x 5'-10"
		26.0/20.0	0.135	5'-9 3/4"	5 x 1/4" x 19'-2 11/16"	5 x 1/4" x 11'-6 11/16"
		20.0/10.0	0.135	11'-6 3/8"		
EB-2	1'-11"	W8x10				

CONNECTION TABLE		
ID.	Qty.	MARK
1	8	CL-190



RIGID FRAME ELEVATION: FRAME LINE 1

ISSUE	DESCRIPTION	DATE	DRN	CHK	DES
A	FOR PERMIT	07.21.2025	KUM	JSK	GFA
0	FOR CONSTRUCTION	07.28.2025	KUM	JSK	GFA

Federal Steel Systems

DESCRIPTION	RIGID FRAME ELEVATION					
BUYER / CUSTOMER	DANIEL WHITE					
END USER	DANIEL WHITE					
END USE	OTHER					
STREET	499 PARTIN RD					
CITY, STATE, ZIP	DUNN, NC 28339					
COUNTY	HARNETT					
JOB#	J-113945	J-113945	SCALE	N.T.S.	DWG#	E5 OF E15

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NORTH CAROLINA PROFESSIONAL SEAL 15319 ENGINEER FREDERICK POMPANA

FOR CONSTRUCTION

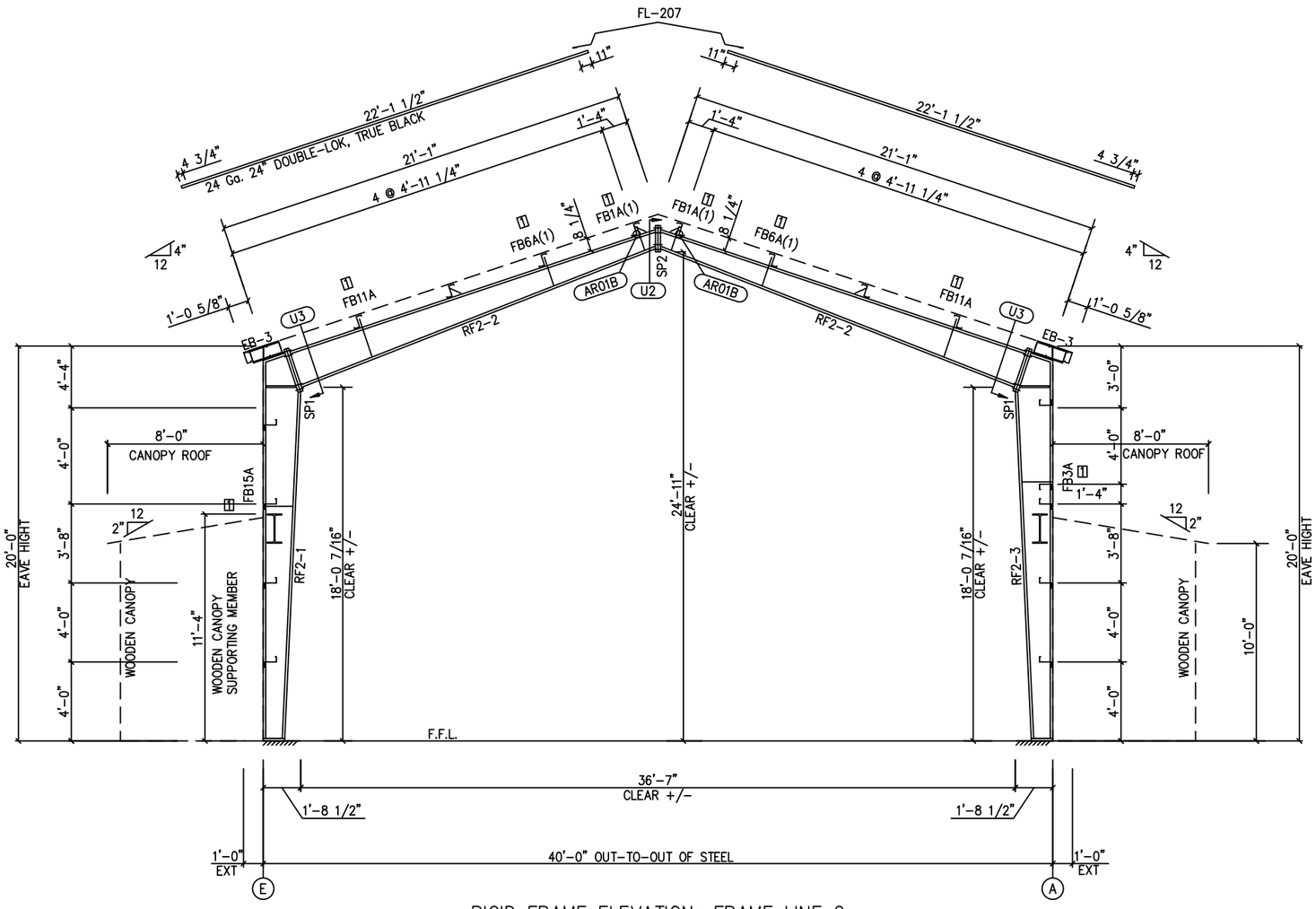
08/22/2025

SPLICE PLATE & BOLT TABLE									
Mark	Qty Top	Bot	Int	Type	Dia	Length	Width	Thick	Length
SP1	4	4	0	A325	0.625	2.25	6"	1/2"	2'-3 1/4"
SP2	4	4	0	A325	0.625	2.25	6"	1/2"	1'-3 11/16"

FLANGE BRACES: Both Sides(U.N.)
FBxxA(1)
A – 2X2X14GA

MEMBER TABLE						
Mark	Length	Web Depth Start/End	Web Plate Thick	Web Plate Length	Outside Flange W x Thk x Length	Inside Flange W x Thk x Length
RF2-1	19'-3 5/16"	10.0/20.0	0.135	17'-8 1/2"	5 x 1/4" x 19'-2 11/16"	5 x 1/4" x 17'-8 11/16"
		20.0/12.5	0.188	1'-10 7/16"	5 x 1/4" x 1'-1 3/8"	
RF2-2	19'-11 1/8"	20.0/ 8.0	0.188	19'-10"	5 x 1/4" x 19'-10"	5 x 1/4" x 19'-7 9/16"
RF2-3	19'-3 5/16"	12.5/20.0	0.188	1'-10 7/16"	5 x 1/4" x 1'-1 3/8"	5 x 1/4" x 17'-8 11/16"
		20.0/10.0	0.135	17'-8 1/2"	5 x 1/4" x 19'-2 11/16"	
EB-3	1'-6 5/8"	W8x10				

CONNECTION TABLE		
ID.	Qty.	MARK
1	12	CL-190



RIGID FRAME ELEVATION: FRAME LINE 2

ISSUE	DESCRIPTION	DATE	DRN	CHK	DES
A	FOR PERMIT	07.21.2025	KUM	JSK	GFA
0	FOR CONSTRUCTION	07.28.2025	KUM	JSK	GFA

Federal Steel Systems

DESCRIPTION	RIGID FRAME ELEVATION
BUYER / CUSTOMER	DANIEL WHITE
END USER	DANIEL WHITE
END USE	OTHER
STREET	499 PARTIN RD
CITY, STATE, ZIP	DUNN, NC 28339
COUNTY	HARNETT

JOB#	J-113945	J-113945	SCALE	N.T.S.	DWG#	E6 OF E15

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NORTH CAROLINA PROFESSIONAL SEAL 15319 ENGINEER FREDERICK POMPANA

FOR CONSTRUCTION

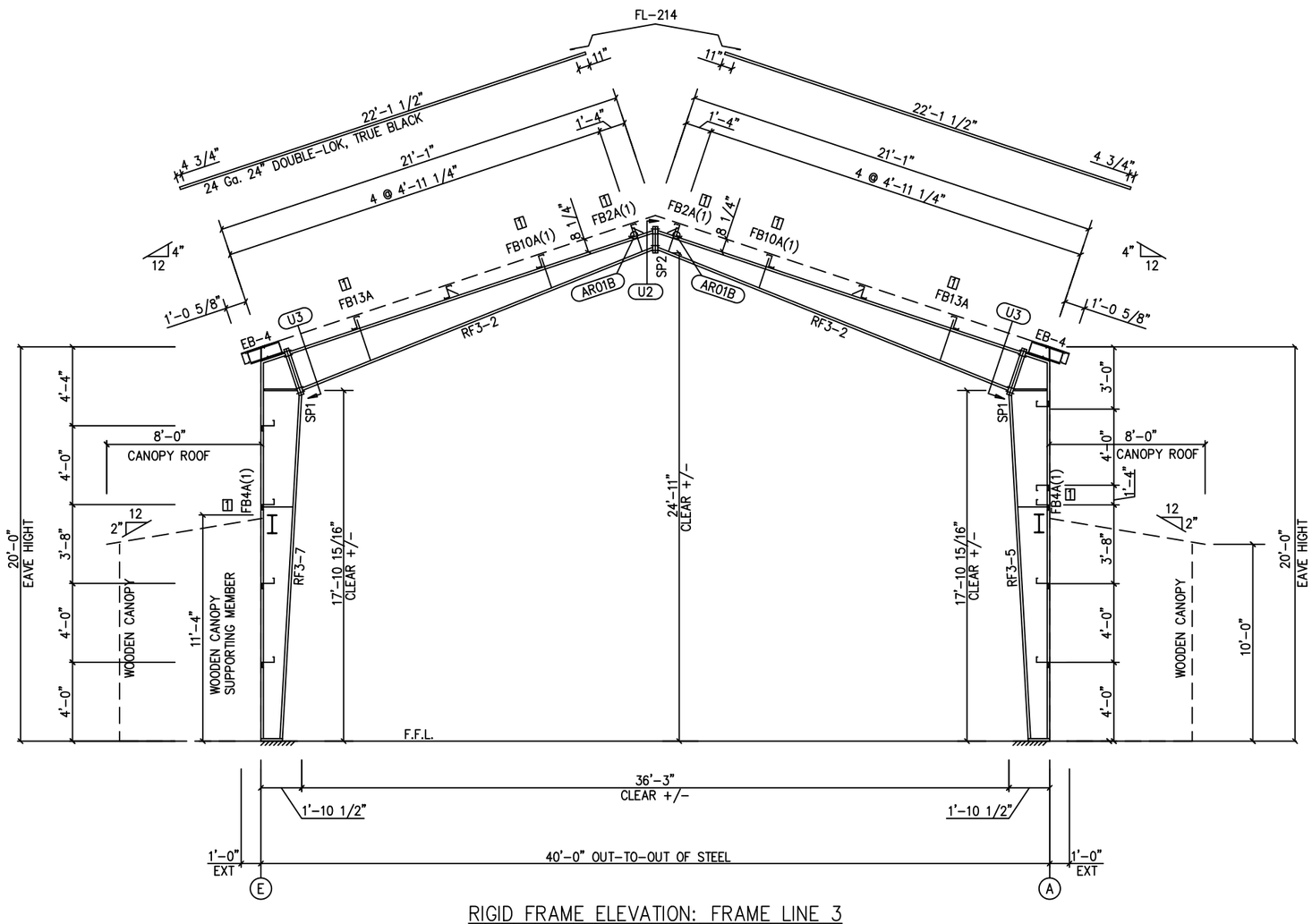
08/22/2025

SPLICE PLATE & BOLT TABLE									
Mark	Qty Top	Bot	Int	Type	Dia	Length	Width	Thick	Length
SP1	4	4	0	A325	0.625	2.25	6"	1/2"	2'-5 1/4"
SP2	4	4	0	A325	0.625	2.25	6"	1/2"	1'-3 11/16"

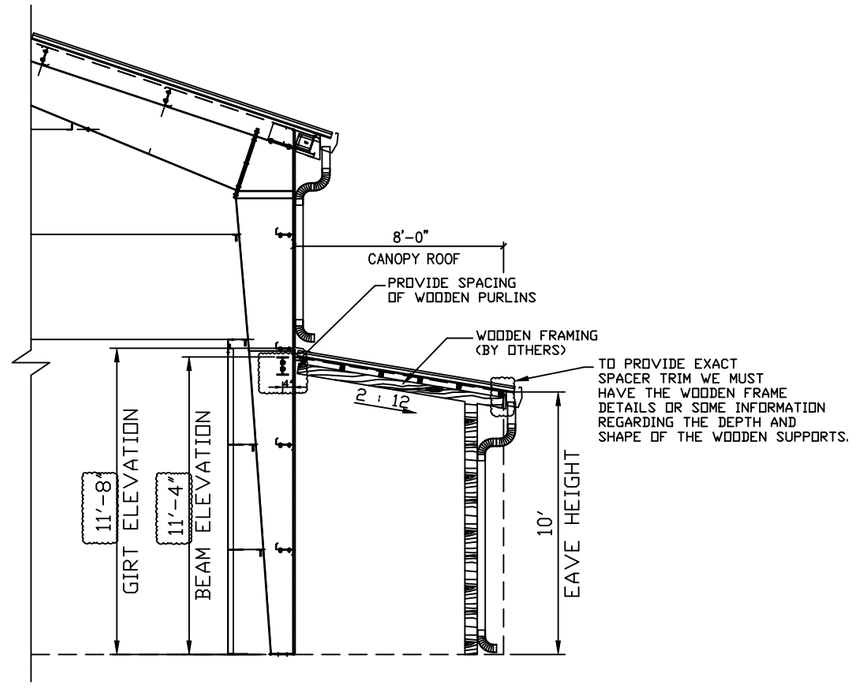
FLANGE BRACES: Both Sides(U.N.)
FBxxA(1)
A – 2X2X14GA

MEMBER TABLE						
Mark	Length	Web Depth Start/End	Web Plate Thick	Web Plate Length	Outside Flange W x Thk x Length	Inside Flange W x Thk x Length
RF3-7	19'-3 5/16"	10.0/22.0	0.135	17'-7 1/16"	5 x 1/4" x 19'-2 11/16"	5 x 1/4" x 17'-7 3/8"
		22.0/13.9	0.188	2'-0 5/16"	5 x 1/4" x 1'-2 13/16"	
RF3-2	19'-9 11/16"	22.0/ 8.0	0.188	19'-8 9/16"	5 x 1/4" x 19'-8 9/16"	5 x 1/4" x 19'-6 3/16"
RF3-5	19'-3 5/16"	13.9/22.0	0.188	2'-0 5/16"	5 x 1/4" x 1'-2 13/16"	5 x 1/4" x 17'-7 3/8"
		22.0/10.0	0.135	17'-7 1/16"	5 x 1/4" x 19'-2 11/16"	
EB-4	1'-8 1/8"	W8x10				

CONNECTION TABLE		
ID.	Qty.	MARK
1	10	CL-190



RIGID FRAME ELEVATION: FRAME LINE 3



CANOPY SUPPORT BEAM ELEVATION

ISSUE	DESCRIPTION	DATE	DRN	CHK	DES
A	FOR PERMIT	07.21.2025	KUM	JSK	GFA
0	FOR CONSTRUCTION	07.28.2025	KUM	JSK	GFA

Federal Steel Systems

DESCRIPTION	RIGID FRAME ELEVATION					
BUYER / CUSTOMER	DANIEL WHITE					
END USER	DANIEL WHITE					
END USE	OTHER					
STREET	499 PARTIN RD					
CITY, STATE, ZIP	DUNN, NC 28339					
COUNTY	HARNETT					
JOB#	J-113945	J-113945	SCALE	N.T.S.	DWG#	E7 OF E15

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FOR CONSTRUCTION

NORTH CAROLINA PROFESSIONAL SEAL 15319 ENGINEER FREDERICK D CAMPANA

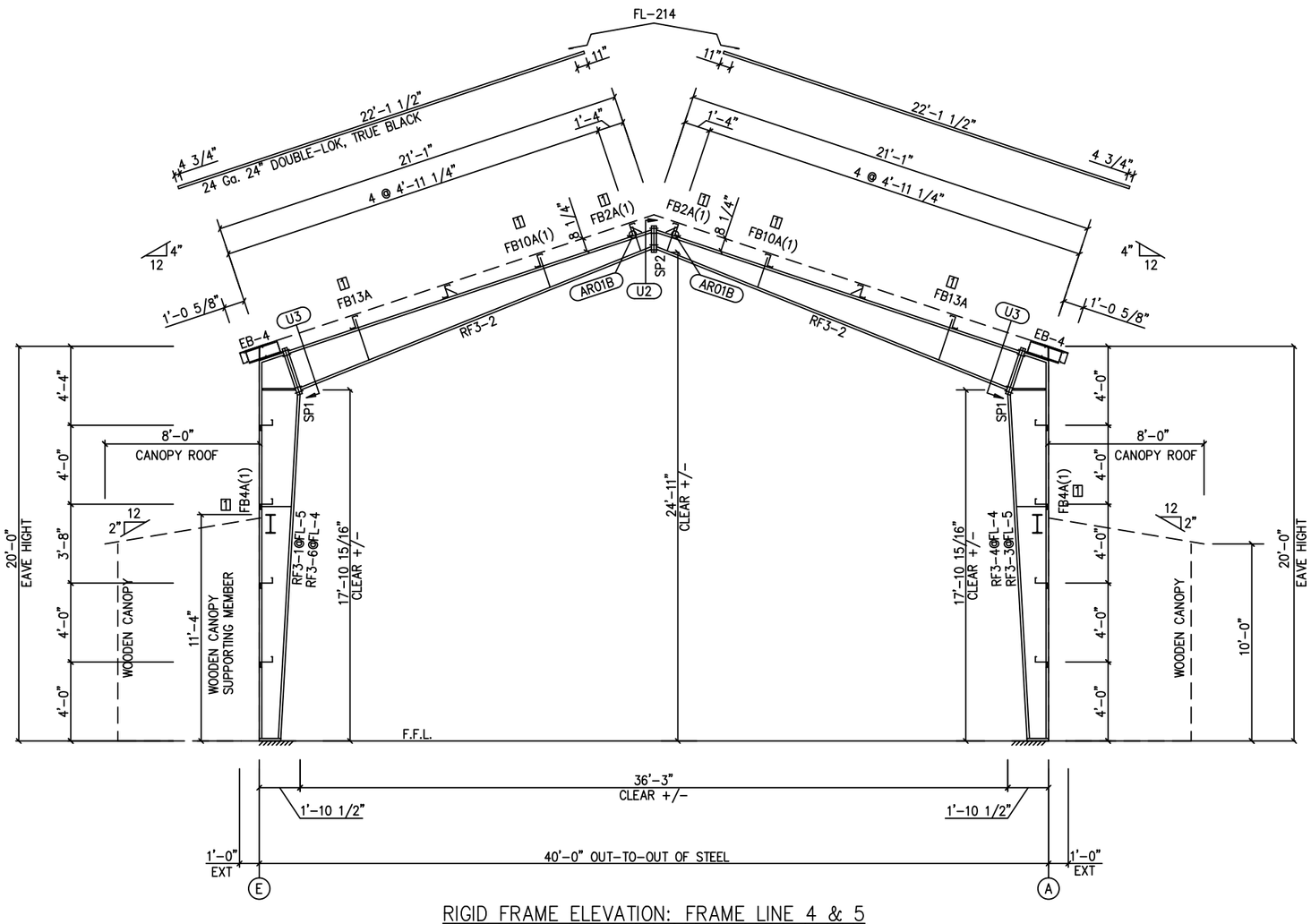
08/22/2025

SPLICE PLATE & BOLT TABLE									
Mark	Qty Top	Bot	Int	Type	Dia	Length	Width	Thick	Length
SP1	4	4	0	A325	0.625	2.25	6"	1/2"	2'-5 1/4"
SP2	4	4	0	A325	0.625	2.25	6"	1/2"	1'-3 11/16"

FLANGE BRACES: Both Sides(U.N.)
FBxxA(1)
A – 2X2X14GA

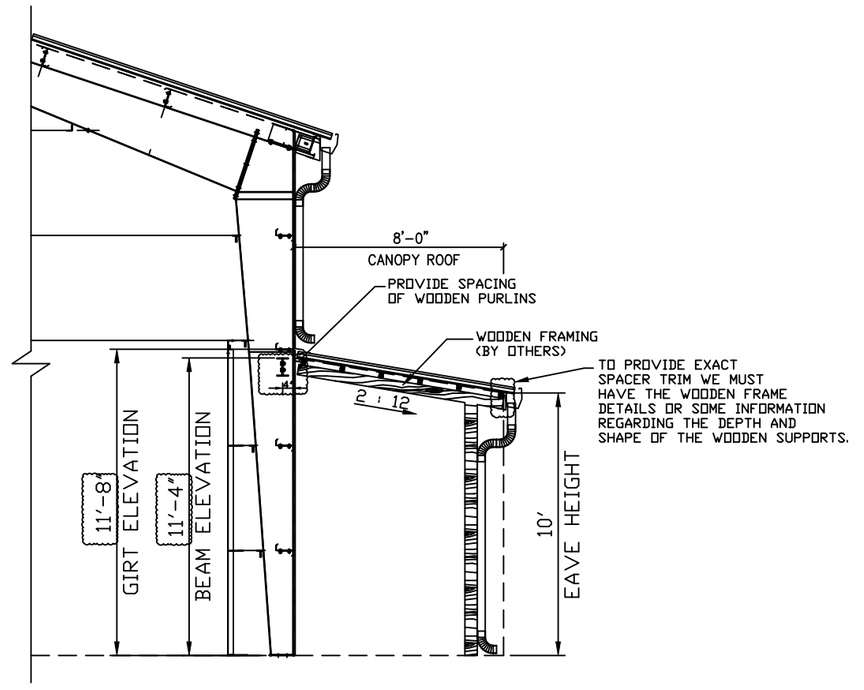
MEMBER TABLE						
Mark	Length	Web Depth Start/End	Web Plate Thick	Web Plate Length	Outside Flange W x Thk x Length	Inside Flange W x Thk x Length
RF3-1/RF3-6	19'-3 5/16"	10.0/22.0	0.135	17'-7 1/16"	5 x 1/4" x 19'-2 11/16"	5 x 1/4" x 17'-7 3/8"
		22.0/13.9	0.188	2'-0 5/16"	5 x 1/4" x 1'-2 13/16"	
RF3-2	19'-9 11/16"	22.0/ 8.0	0.188	19'-8 9/16"	5 x 1/4" x 19'-8 9/16"	5 x 1/4" x 19'-6 3/16"
RF3-3/RF3-4	19'-3 5/16"	13.9/22.0	0.188	2'-0 5/16"	5 x 1/4" x 1'-2 13/16"	5 x 1/4" x 17'-7 3/8"
		22.0/10.0	0.135	17'-7 1/16"	5 x 1/4" x 19'-2 11/16"	
EB-4	1'-8 1/8"	W8x10				

CONNECTION TABLE		
ID.	Qty.	MARK
1	10	CL-190



RIGID FRAME ELEVATION: FRAME LINE 4 & 5

WOODEN CANOPY ONLY ON FRAME LINE-4



CANOPY SUPPORT BEAM ELEVATION

ISSUE	DESCRIPTION	DATE	DRN	CHK	DES
A	FOR PERMIT	07.21.2025	KUM	JSK	GFA
0	FOR CONSTRUCTION	07.28.2025	KUM	JSK	GFA

Federal Steel Systems

DESCRIPTION	RIGID FRAME ELEVATION
BUYER / CUSTOMER	DANIEL WHITE
END USER	DANIEL WHITE
END USE	OTHER
STREET	499 PARTIN RD
CITY, STATE, ZIP	DUNN, NC 28339
COUNTY	HARNETT

JOB#	J-113945	J-113945	SCALE	N.T.S.	DWG#	E8 OF E15

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FOR CONSTRUCTION

NORTH CAROLINA PROFESSIONAL SEAL 15319 ENGINEER FREDERICK P. CAMPANA

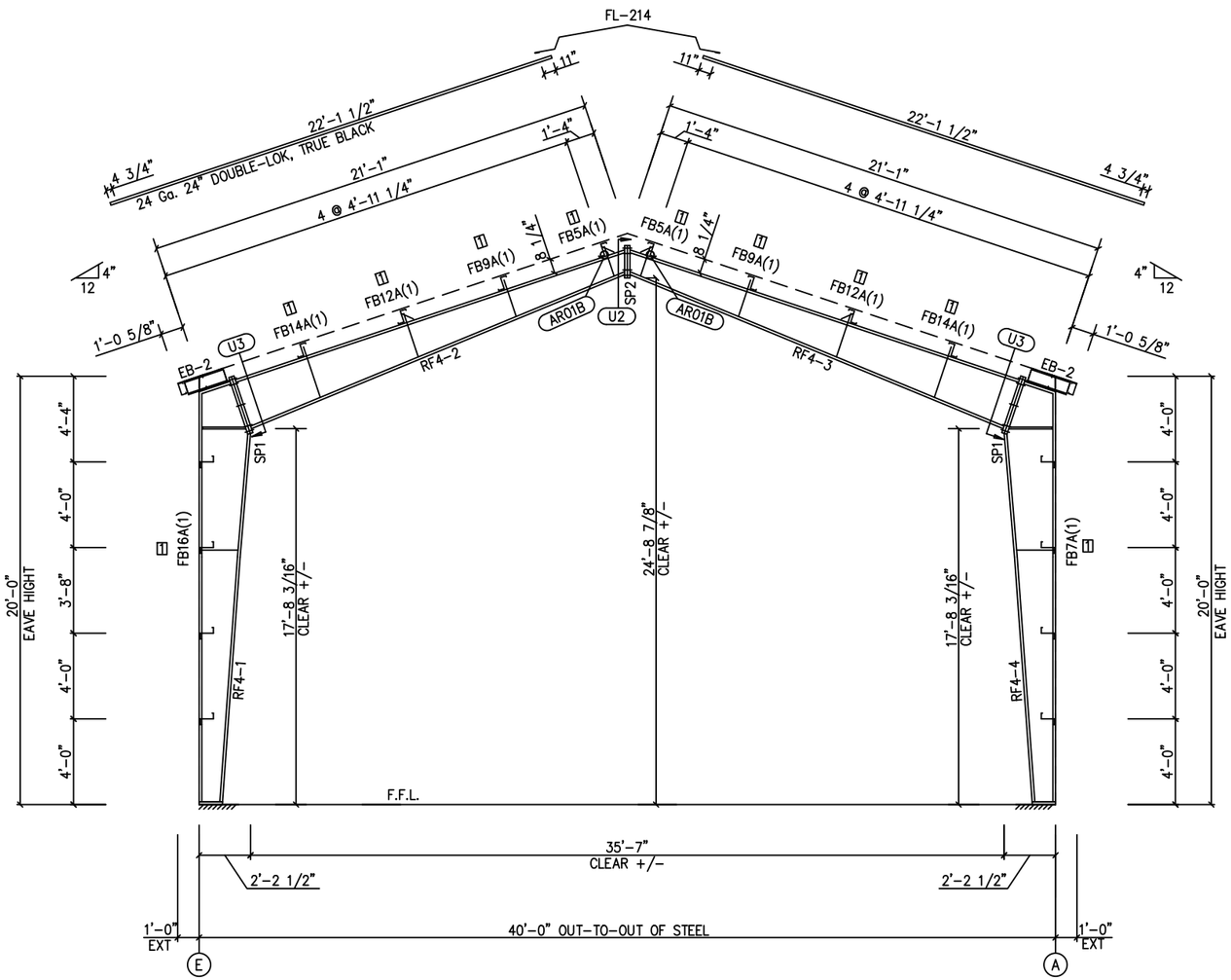
08/22/2025

SPLICE PLATE & BOLT TABLE									
Mark	Qty Top	Bot	Int	Type	Dia	Length	Width	Thick	Length
SP1	4	4	2	A325	0.625	2.25	6"	5/8"	2'-9 5/16"
SP2	4	4	0	A325	0.625	2.25	6"	1/2"	1'-5 3/4"

FLANGE BRACES: Both Sides(U.N.)
FBxxA(1)
A – 2X2X14GA

MEMBER TABLE						
Mark	Length	Web Depth Start/End	Web Plate Thick	Web Plate Length	Outside Flange W x Thk x Length	Inside Flange W x Thk x Length
RF4–1	19'–3 5/16"	10.0/20.0	0.135	11'–6 3/8"	5 x 1/4" x 19'–2 11/16"	5 x 1/4" x 11'–6 11/16"
		20.0/26.0	0.135	5'–9 3/4"	5 x 1/4" x 1'–5 11/16"	5 x 1/4" x 5'–10"
		26.0/16.6	0.188	2'–4 1/8"		
RF4–2	19'–6 11/16"	26.0/10.0	0.135	19'–5 7/16"	5 x 1/4" x 19'–5 7/16"	5 x 1/4" x 19'–2 9/16"
RF4–3	19'–6 11/16"	10.0/26.0	0.135	19'–5 7/16"	5 x 1/4" x 19'–5 7/16"	5 x 1/4" x 19'–2 9/16"
RF4–4	19'–3 5/16"	16.6/26.0	0.188	2'–4 1/8"	5 x 1/4" x 1'–5 11/16"	5 x 1/4" x 5'–10"
		26.0/20.0	0.135	5'–9 3/4"	5 x 1/4" x 19'–2 11/16"	5 x 1/4" x 11'–6 11/16"
		20.0/10.0	0.135	11'–6 3/8"		
EB–2	1'–11"	W8x10				

CONNECTION TABLE		
ID.	Qty.	MARK
[1]	10	CL–190



RIGID FRAME ELEVATION: FRAME LINE 6

ISSUE	DESCRIPTION	DATE	DRN	CHK	DES
A	FOR PERMIT	07.21.2025	KUM	JSK	GFA
0	FOR CONSTRUCTION	07.28.2025	KUM	JSK	GFA

Federal Steel Systems

DESCRIPTION	RIGID FRAME ELEVATION					
BUYER / CUSTOMER	DANIEL WHITE					
END USER	DANIEL WHITE					
END USE	OTHER					
STREET	499 PARTIN RD					
CITY, STATE, ZIP	DUNN, NC 28339					
COUNTY	HARNETT					
JOB#	J–113945	J–113945	SCALE	N.T.S.	DWG#	E9 OF E15

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NORTH CAROLINA PROFESSIONAL SEAL 15319 ENGINEER FREDERICK POMPANA

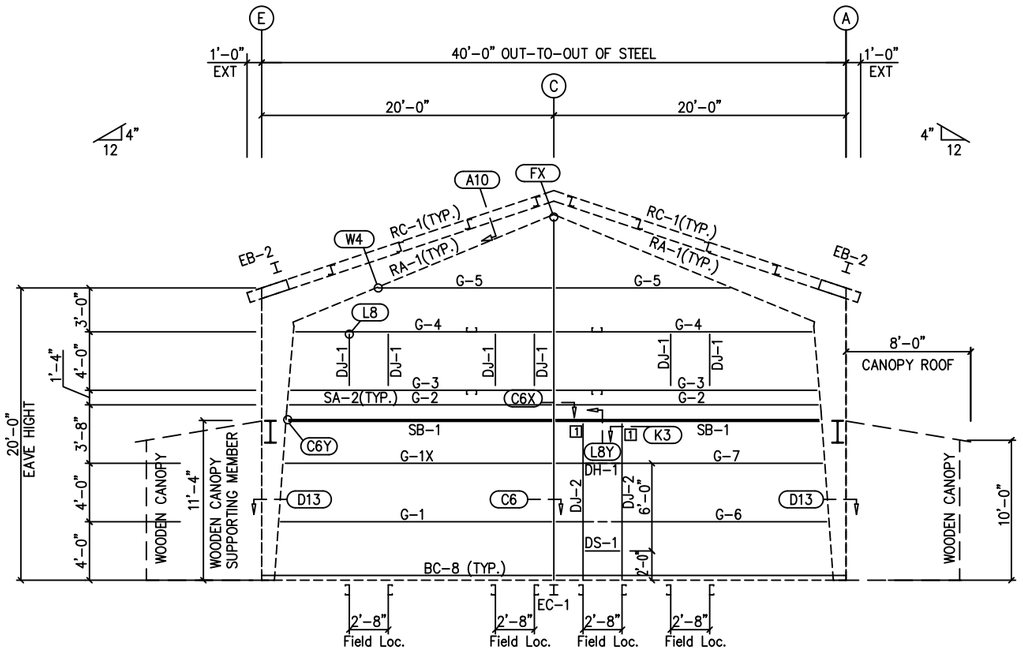
FOR CONSTRUCTION

08/22/2025

BOLT TABLE FRAME LINE 1				
LOCATION	QUAN	TYPE	DIA	LENGTH
Columns/Raf	4	A325	1/2"	1 1/4"
SB-RF/EC	2	A325	3/4"	1 3/4"

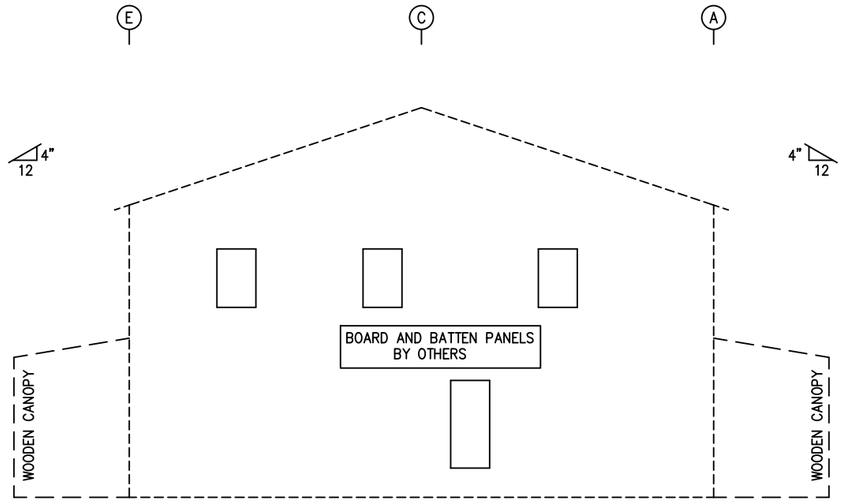
MEMBER TABLE FRAME LINE 1	
MARK	PART
SB-1	W8x18
EB-2	W8x10
EC-1	W8x21
DJ-1	8X25C16
DJ-2	8X25C16
DH-1	8x25C16
DS-1	8x25C16
G-1	8x25Z14
G-1X	8x25Z14
G-2	8x25Z16
G-3	8x25C16
G-4	8x25C14
G-5	8x25Z16
G-6	8x25Z16
G-7	8x25Z16

CONNECTION TABLE		
ID.	Qty.	MARK
1	2	CC121

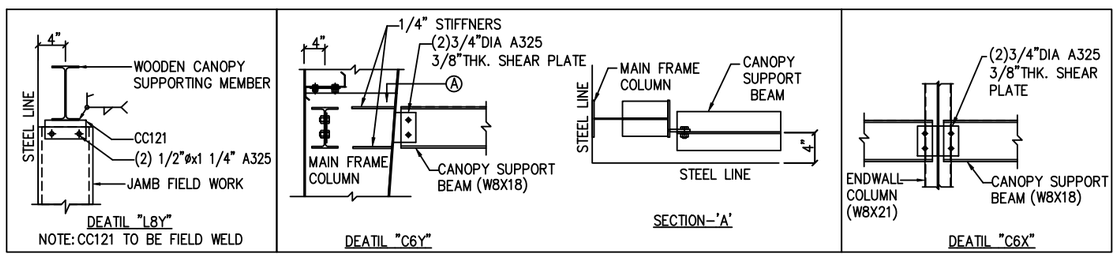


ENDWALL FRAMING: FRAME LINE 1

WALL INSULATION : VRR 5" THK INSULATION (BY OTHERS)



ENDWALL : FRAME LINE 1



ISSUE	DESCRIPTION	DATE	DRN	CHK	DES
A	FOR PERMIT	07.21.2025	KUM	JSK	GFA
0	FOR CONSTRUCTION	07.28.2025	KUM	JSK	GFA

Federal Steel Systems

DESCRIPTION	ENDWALL FRAMING ELEVATION
BUYER / CUSTOMER	DANIEL WHITE
END USER	DANIEL WHITE
END USE	OTHER
STREET	499 PARTIN RD
CITY, STATE, ZIP	DUNN, NC 28339
COUNTY	HARNETT

JOB#	J-113945	J-113945	SCALE	N.T.S.	DWG#	E10 OF E15

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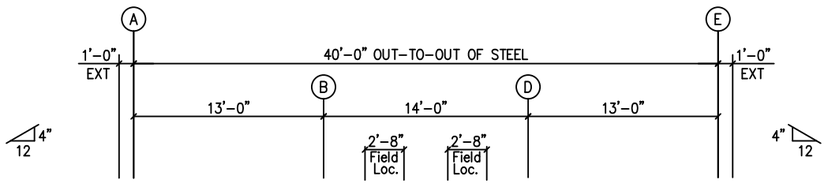
FOR CONSTRUCTION

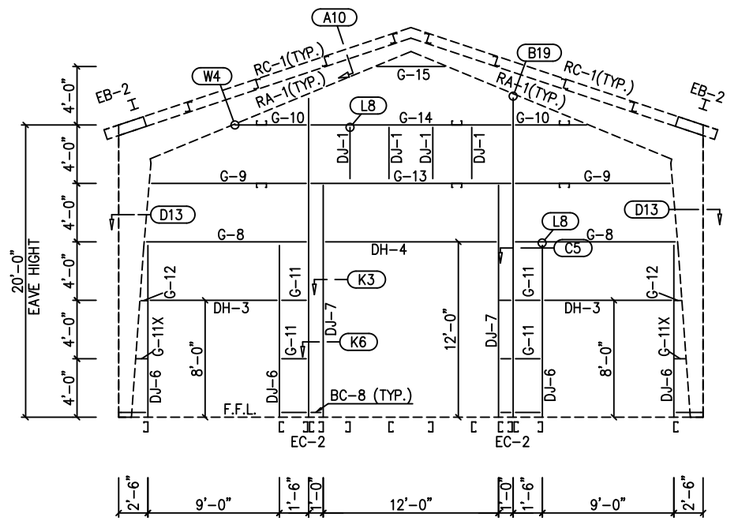
NORTH CAROLINA PROFESSIONAL SEAL 15319 ENGINEER FREDERICK POMPANA

08/22/2025

BOLT TABLE FRAME LINE 6				
LOCATION	QUAN	TYPE	DIA	LENGTH
Columns/Raf	4	A325	1/2"	1 1/4"

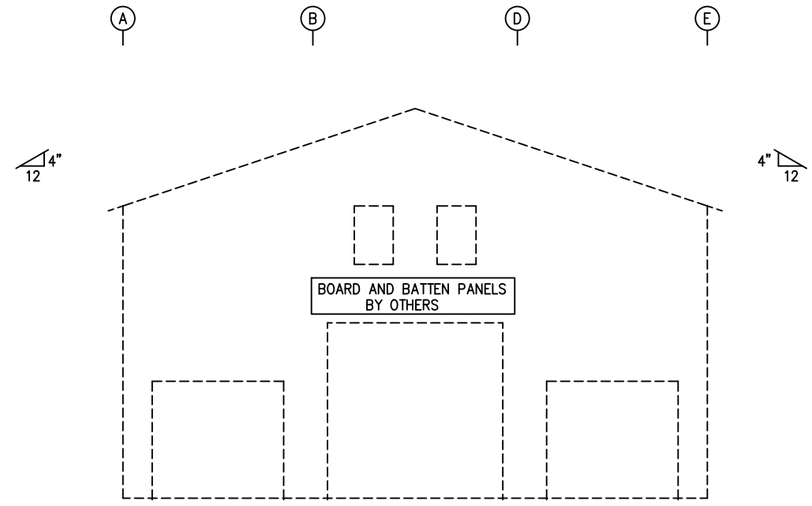
MEMBER TABLE FRAME LINE 6	
MARK	PART
EB-2	W8x10
EC-2	8X70D12
DJ-1	8X25C16
DJ-6	8X25C16
DJ-7	8X25C16
DH-3	8x25C16
DH-4	8x25C16
G-8	8x25Z16
G-9	8x25C16
G-10	8x25C16
G-11	8x25Z16
G-12	8x25Z16
G-11X	8x25Z16
G-13	8x25C16
G-14	8x25C16
G-15	8x25Z16





ENDWALL FRAMING: FRAME LINE 6

WALL INSULATION : VRR 5" THK INSULATION (BY OTHERS)



ENDWALL : FRAME LINE 6

ISSUE	DESCRIPTION	DATE	DRN	CHK	DES
A	FOR PERMIT	07.21.2025	KUM	JSK	GFA
0	FOR CONSTRUCTION	07.28.2025	KUM	JSK	GFA

Federal Steel Systems

DESCRIPTION	ENDWALL FRAMING ELEVATION					
BUYER / CUSTOMER	DANIEL WHITE					
END USER	DANIEL WHITE					
END USE	OTHER					
STREET	499 PARTIN RD					
CITY, STATE, ZIP	DUNN, NC 28339					
COUNTY	HARNETT					
JOB#	J-113945	J-113945	SCALE	N.T.S.	DWG#	E11 OF E15

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FOR CONSTRUCTION

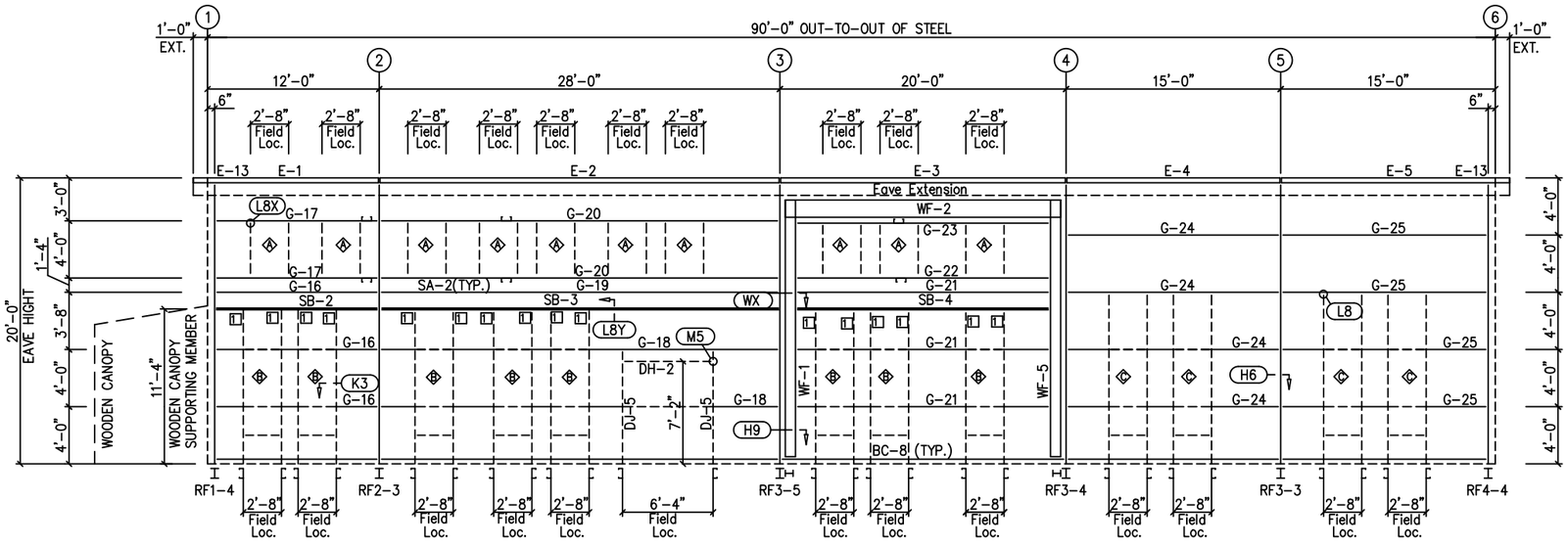
NORTH CAROLINA PROFESSIONAL SEAL 15319 ENGINEER FREDERICK P CAMPANA

08/22/2025

BOLT TABLE FRAME LINE A				
LOCATION	QUAN	TYPE	DIA	LENGTH
WF-1/WF-5 – WF-2	8	A325	5/8"	2 1/4"
RF3-5 – WF-1	8	A325	5/8"	1 3/4"
RF3-4 – WF-5	8	A325	5/8"	1 3/4"
SB-RF	2	A325	3/4"	1 3/4"

CONNECTION TABLE		
ID.	Qty.	MARK
1	16	CC121

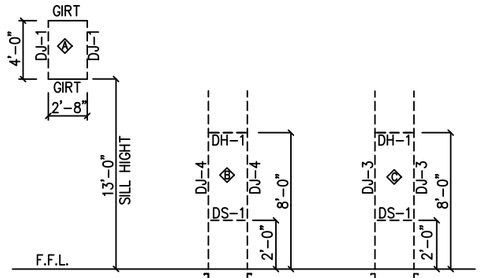
MEMBER TABLE FRAME LINE A	
MARK	PART
SB-2	W8x10
SB-3	W8x18
SB-4	W8x18
WF-1	W08542
WF-2	W14542
WF-5	W08542
DJ-1	8X25C16
DJ-3	8X25C16
DJ-4	8X25C16
DJ-5	8X25C16
DH-1	8x25C16
DH-2	8x25C16
DS-1	8x25C16
E-1	E085344L
E-2	E085344L
E-3	E085344L
E-4	E085344L
E-5	E085344L
E-13	E085344L
G-16	8x25Z16
G-17	8x25C16
G-18	8x25Z16
G-19	8x25Z12
G-20	8x35C12
G-21	8x25Z16
G-22	8x25C14
G-23	8x35C12
G-24	8x25Z16
G-25	8x25Z16



FIELD DRILL TOP OF JAMBS AT SB-2

SIDEWALL FRAMING: FRAME LINE A

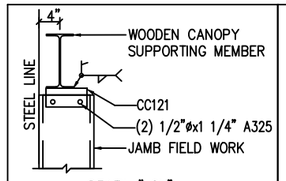
WALL INSULATION : VRR 5" THK INSULATION (BY OTHERS)



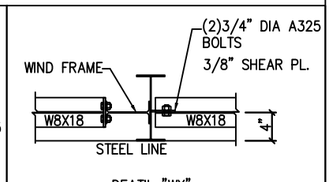
DETAIL "A"
2'-8" X 4'-0"
(10 QTY.)

DETAIL "B"
2'-8" X 6'-0"
(8 QTY.)

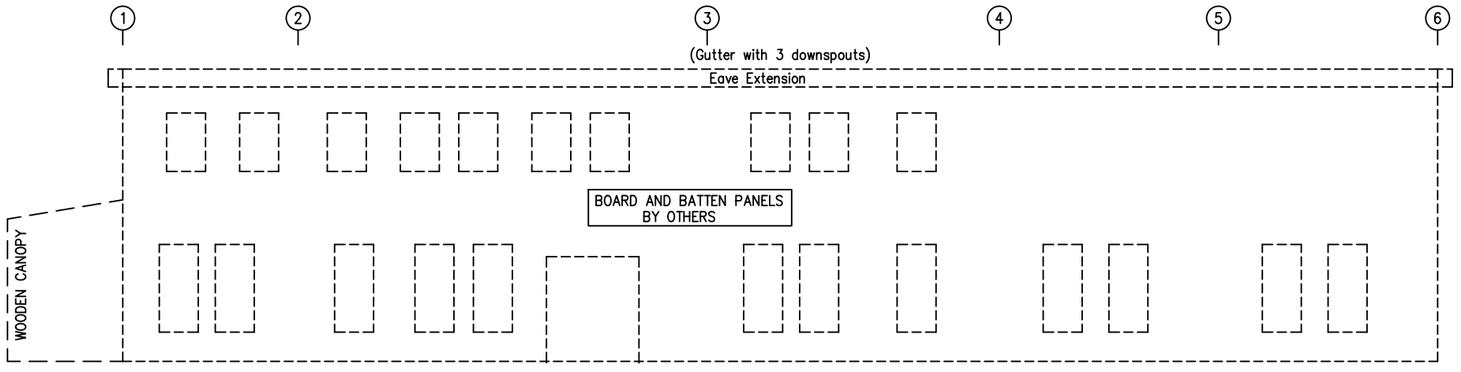
DETAIL "C"
2'-8" X 6'-0"
(4 QTY.)



DEATIL "L8Y"
NOTE: CC121 TO BE FIELD WELD



DEATIL "WX"



SIDEWALL: FRAME LINE A

ISSUE	DESCRIPTION	DATE	DRN	CHK	DES
A	FOR PERMIT	07.21.2025	KUM	JSK	GFA
0	FOR CONSTRUCTION	07.28.2025	KUM	JSK	GFA

Federal Steel Systems

DESCRIPTION	SIDEWALL FRAMING ELEVATION
BUYER / CUSTOMER	DANIEL WHITE
END USER	DANIEL WHITE
END USE	OTHER
STREET	499 PARTIN RD
CITY, STATE, ZIP	DUNN, NC 28339
COUNTY	HARNETT

JOB#	J-113945	J-113945	SCALE	N.T.S.	DWG#	E12 OF E15

SEALING OF THIS DRAWING DOES NOT IMPLY OR CONSTITUTE THAT FSS ENGINEER IS THE ENGINEER OF RECORD OR THE DESIGN PROFESSIONAL FOR THIS PROJECT. ONLY THE DESIGN OF THE METAL BUILDING SYSTEM AS FURNISHED BY THE FABRICATOR IS INCLUDED. FOUNDATION ANALYSIS, ELECTRICAL AND MECHANICAL SYSTEMS AND / OR OTHER PARTS SUPPLIED BY ANYONE OTHER THAN THE FABRICATOR ARE SPECIFICALLY EXCLUDED. NO INSPECTION OR SUPERVISION IS IMPLIED.

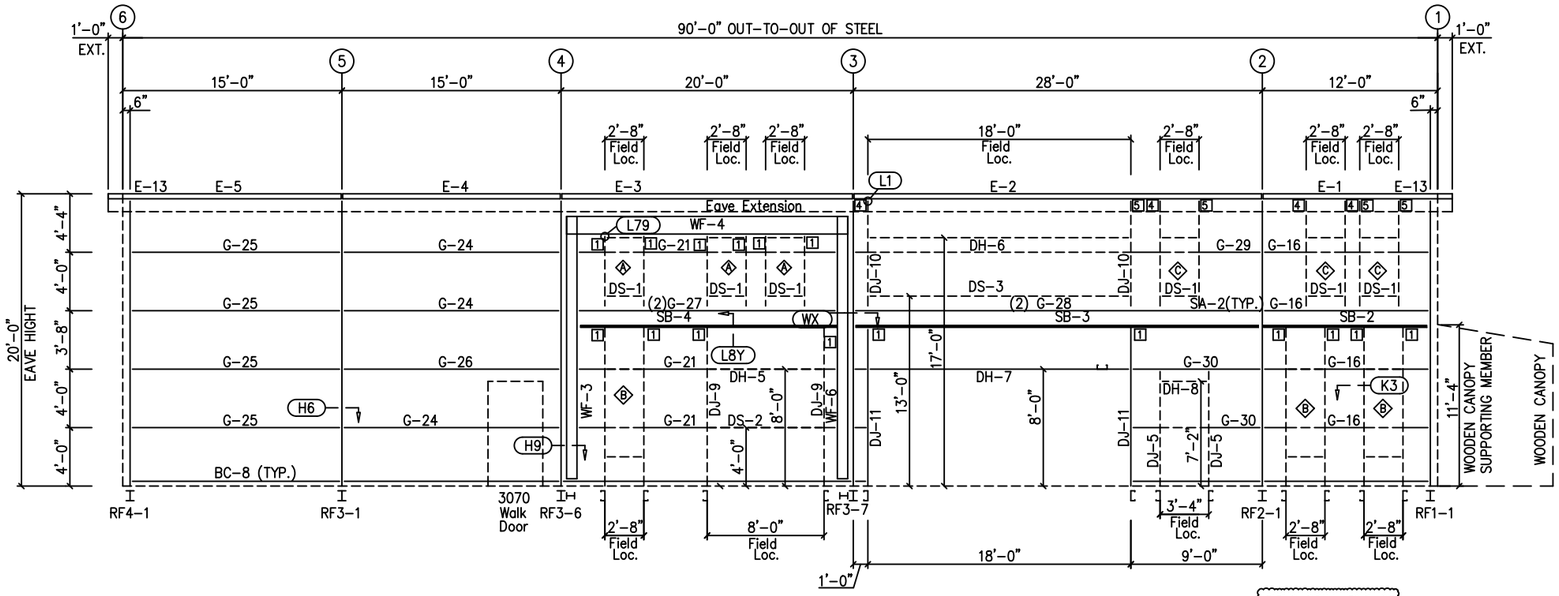
FOR CONSTRUCTION

NORTH CAROLINA PROFESSIONAL SEAL 15319 ENGINEER FREDERICK D CAMPANA

08/22/2025

BOLT TABLE FRAME LINE E				
LOCATION	QUAN	TYPE	DIA	LENGTH
WF-3/WF-6 - WF-4	8	A325	5/8"	2 1/4"
RF3-6 - WF-3	8	A325	5/8"	1 3/4"
RF3-7 - WF-6	8	A325	5/8"	1 3/4"
SB-RF	2	A325	3/4"	1 3/4"

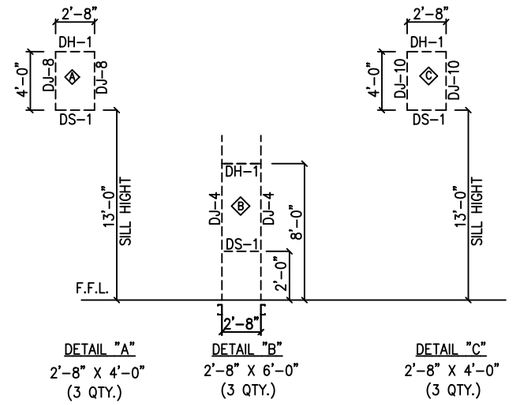
CONNECTION PLATES FRAME LINE E		
ID	QUAN	MARK/PART
4	4	CC54L
5	4	CC54R
1	16	CC121



SIDEWALL FRAMING: FRAME LINE E

WALL INSULATION : VRR 5" THK INSULATION (BY OTHERS)

FIELD DRILL TOP OF JAMBS AT SB-2

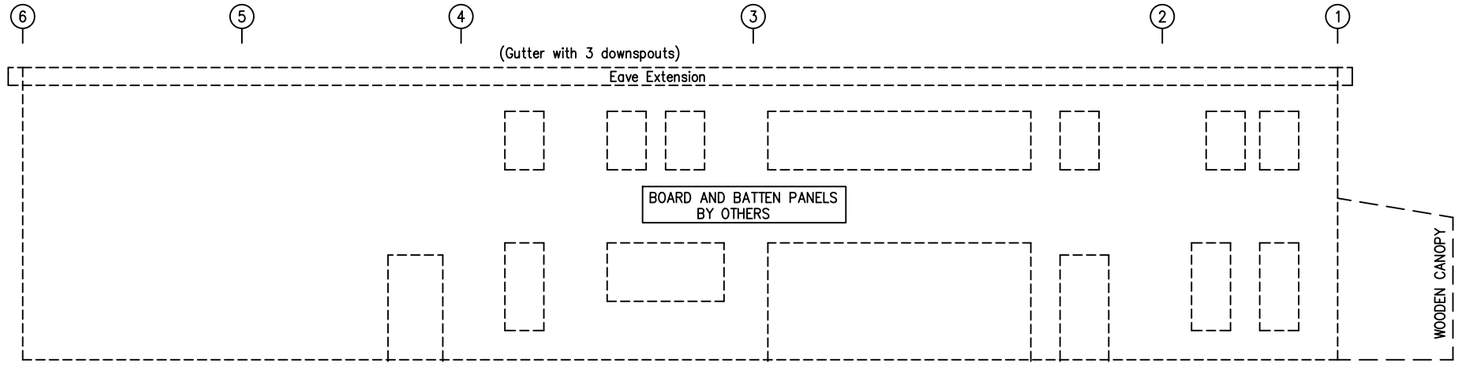


DETAIL "A"
2'-8" X 4'-0"
(3 QTY.)

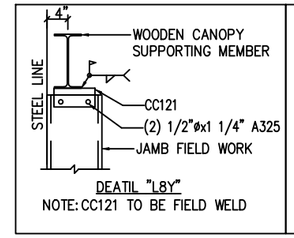
DETAIL "B"
2'-8" X 6'-0"
(3 QTY.)

DETAIL "C"
2'-8" X 4'-0"
(3 QTY.)

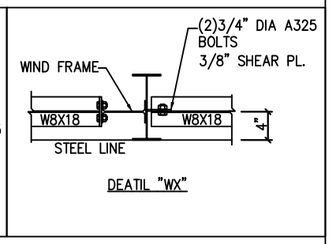
MEMBER TABLE FRAME LINE E	
MARK	PART
SB-2	W8x10
SB-3	W8x18
SB-4	W8x18
WF-3	W08542
WF-4	W14542
WF-6	W08542
DJ-4	8X25C16
DJ-5	8X25C16
DJ-8	8X25C16
DJ-9	8X25C16
DJ-10	8X25C16
DJ-11	8X25C16
DH-1	8x25C16
DH-5	8x25C16
DH-6	8x25C14
DH-7	8x25C16
DH-8	8x25C16
DS-1	8x25C16
DS-2	8x25C16
DS-3	8x25C16
E-1	E085344L
E-2	E085344L
E-3	E085344L
E-4	E085344L
E-5	E085344L
E-13	E085344L
G-16	8x25Z16
G-21	8x25Z16
G-24	8x25Z16
G-25	8x25Z16
G-26	8x35Z16
G-27	8x25Z16
G-28	8x25Z12
G-29	8x25Z14
G-30	8x25Z16



SIDEWALL : FRAME LINE E



DEATIL "L8Y"
NOTE: CC121 TO BE FIELD WELD



DEATIL "WX"

ISSUE	DESCRIPTION	DATE	DRN	CHK	DES
A	FOR PERMIT	07.21.2025	KUM	JSK	GFA
0	FOR CONSTRUCTION	07.28.2025	KUM	JSK	GFA

Federal Steel Systems

DESCRIPTION	SIDEWALL FRAMING ELEVATION					
BUYER / CUSTOMER	DANIEL WHITE					
END USER	DANIEL WHITE					
END USE	OTHER					
STREET	499 PARTIN RD					
CITY, STATE, ZIP	DUNN, NC 28339					
COUNTY	HARNETT					
JOB#	J-113945	J-113945	SCALE	N.T.S.	DWG#	E13 OF E15

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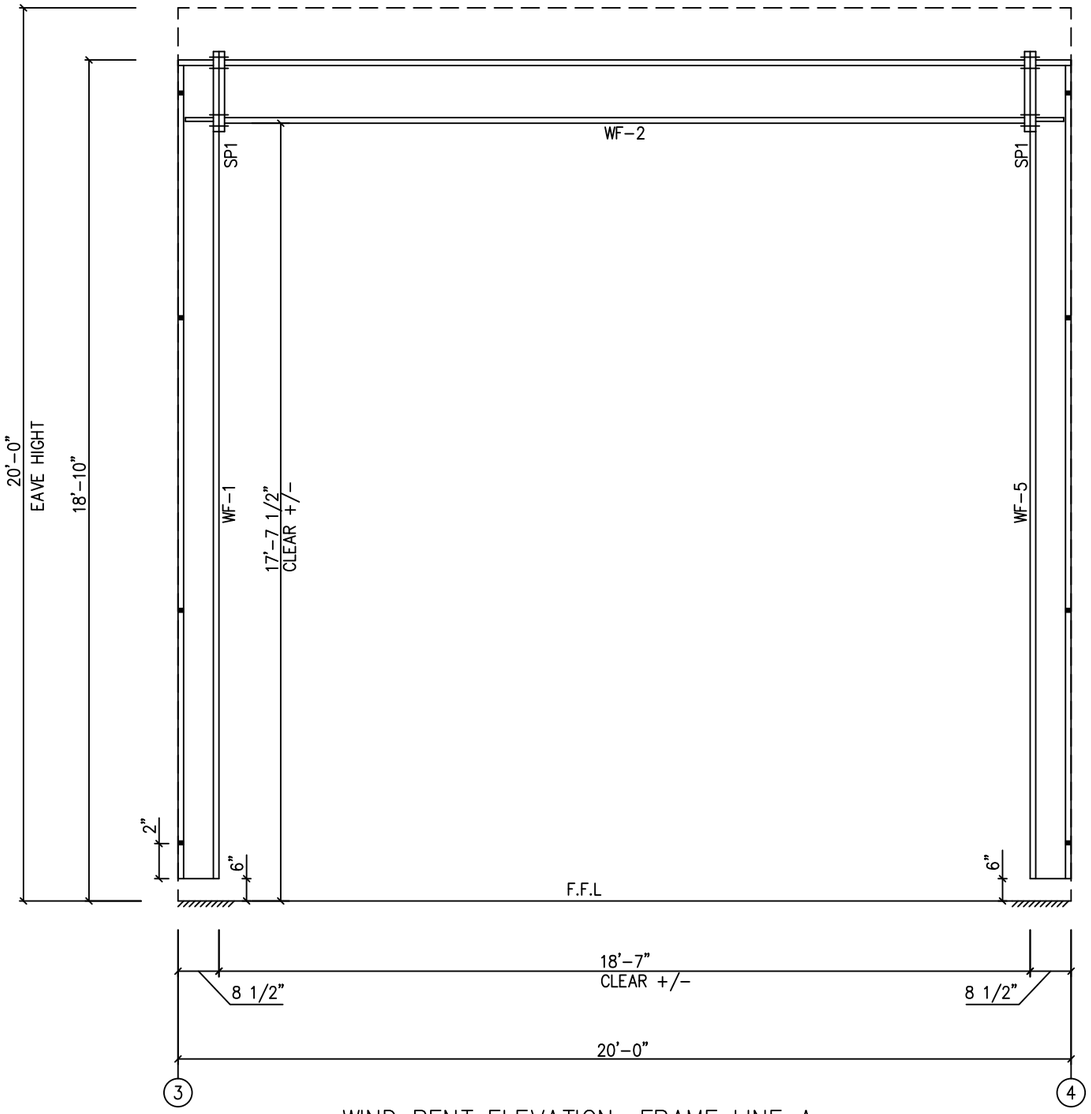
FOR CONSTRUCTION

NORTH CAROLINA PROFESSIONAL SEAL 15319 ENGINEER FREDERICK P. CAMPANA

08/22/2025

SPLICE PLATES & BOLTS								
Splice Mark	Quan Top/	Bot	-----Bolt----- Type	Dia	Length	Plate Size Width	Thick	Length
SP1	4	4	A325	0.625	2.25	6"	1/2"	1'-9 1/4"

MEMBER SIZE TABLE		
MARK	MEMBER	LENGTH
WF-2	W14542	18'-6 1/4"
WF-1	W08542	18'-4"
WF-5	W08542	18'-4"



WIND BENT ELEVATION: FRAME LINE A

ISSUE	DESCRIPTION	DATE	DRN	CHK	DES
A	FOR PERMIT	07.21.2025	KUM	JSK	GFA
0	FOR CONSTRUCTION	07.28.2025	KUM	JSK	GFA

Federal Steel Systems

DESCRIPTION	WIND BENT ELEVATION					
BUYER / CUSTOMER	DANIEL WHITE					
END USER	DANIEL WHITE					
END USE	OTHER					
STREET	499 PARTIN RD					
CITY, STATE, ZIP	DUNN, NC 28339					
COUNTY	HARNETT					
JOB#	J-113945	J-113945	SCALE	N.T.S.	DWG#	E14 OF E15

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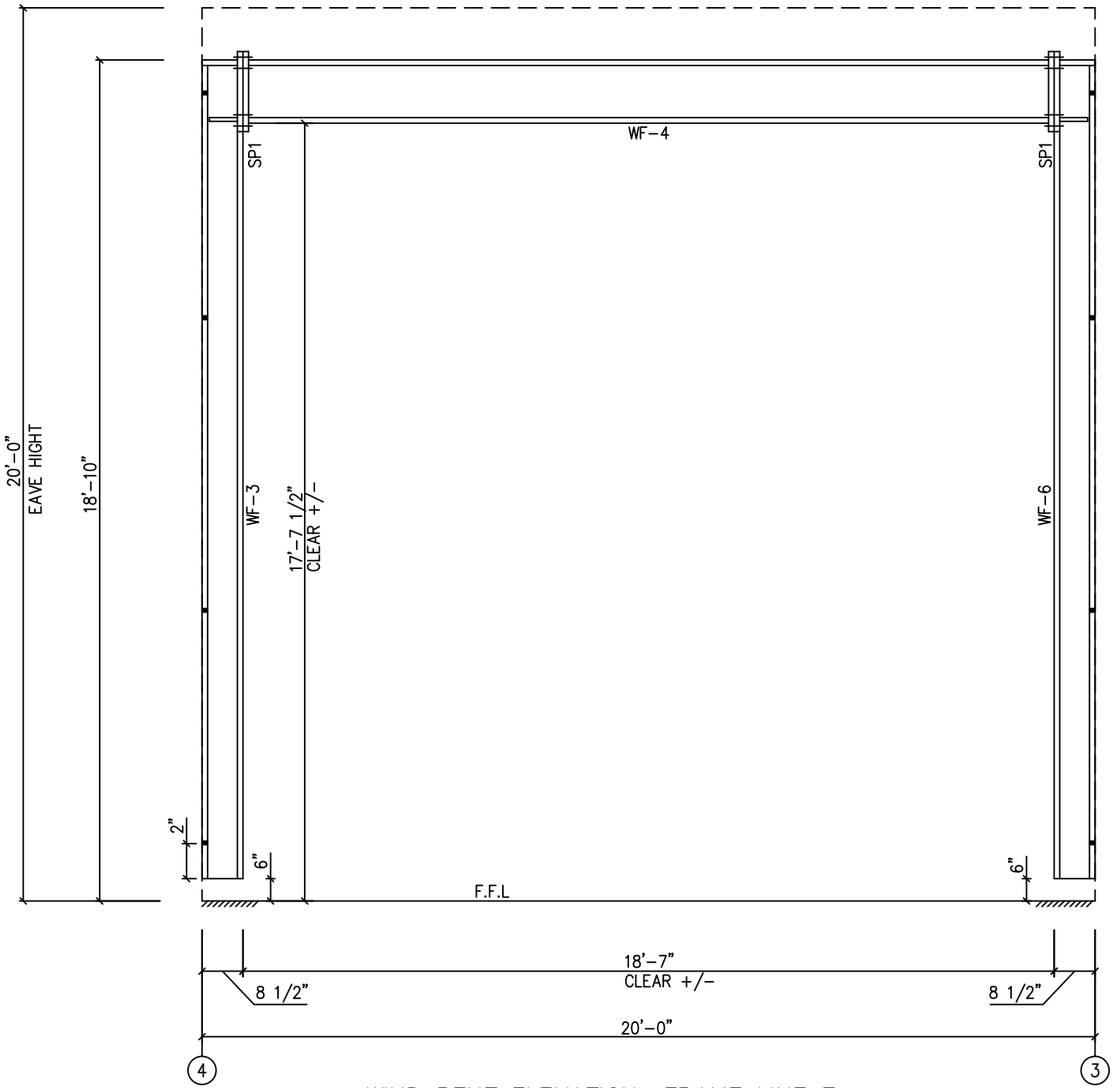
FOR CONSTRUCTION

NORTH CAROLINA PROFESSIONAL SEAL 15319 ENGINEER FREDERICK P CAMPANA

08/22/2025

SPLICE PLATES & BOLTS								
Splice Mark	Quan Top/	Bot	-----Bolt----- Type	Dia	Length	Plate Size Width	Thick	Length
SP1	4	4	A325	0.625	2.25	6"	1/2"	1'-9 1/4"

MEMBER SIZE TABLE		
MARK	MEMBER	LENGTH
WF-4	W14542	18'-6 1/4"
WF-3	W08542	18'-4"
WF-6	W08542	18'-4"



WIND BENT ELEVATION: FRAME LINE E

ISSUE	DESCRIPTION	DATE	DRN	CHK	DES
A	FOR PERMIT	07.21.2025	KUM	JSK	GFA
0	FOR CONSTRUCTION	07.28.2025	KUM	JSK	GFA

Federal Steel Systems

DESCRIPTION	WIND BENT ELEVATION					
BUYER / CUSTOMER	DANIEL WHITE					
END USER	DANIEL WHITE					
END USE	OTHER					
STREET	499 PARTIN RD					
CITY, STATE, ZIP	DUNN, NC 28339					
COUNTY	HARNETT					
JOB# J-113945	J-113945	SCALE	N.T.S.	DWG#	E15 OF E15	

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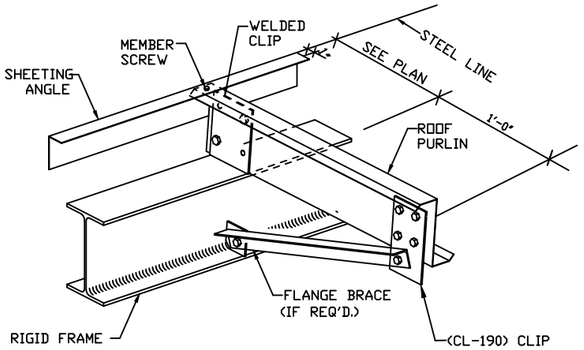
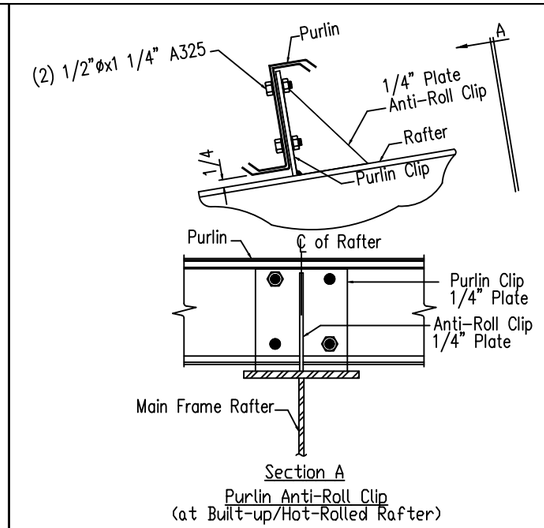
FOR CONSTRUCTION

NORTH CAROLINA PROFESSIONAL SEAL 15319 ENGINEER FREDERICK CAMPANA

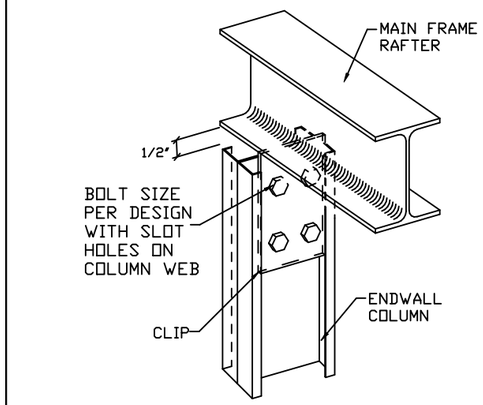
08/22/2025



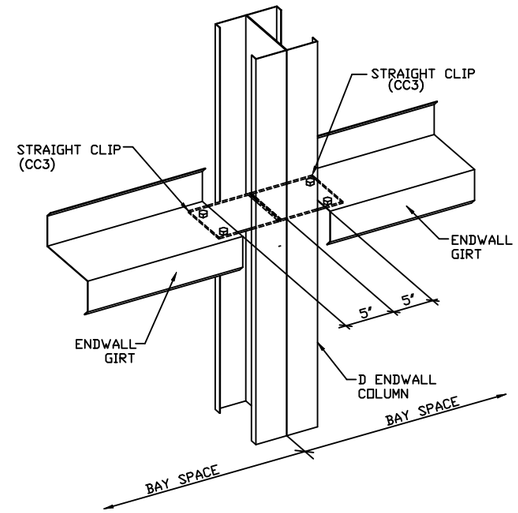
A10	ROOF PURLIN TO EXPANDABLE ENDWALL RIGID FRAME
	ALL BOLTS ARE 1/2"ø x 1 1/4" A325 BOLTS U.N.



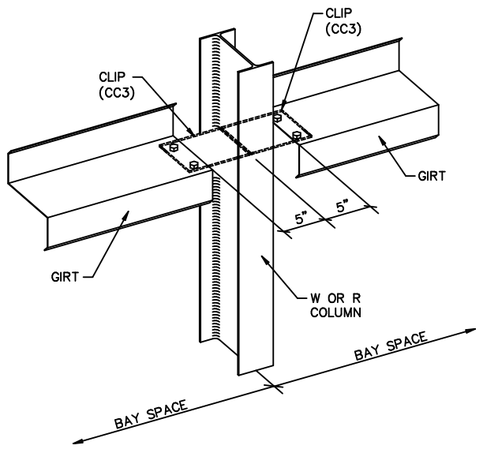
AR01B	ANTI-ROLL CLIP AT MAIN FRAME
	ALL BOLTS ARE 1/2"ø x 1 1/4" A325 BOLTS U.N.



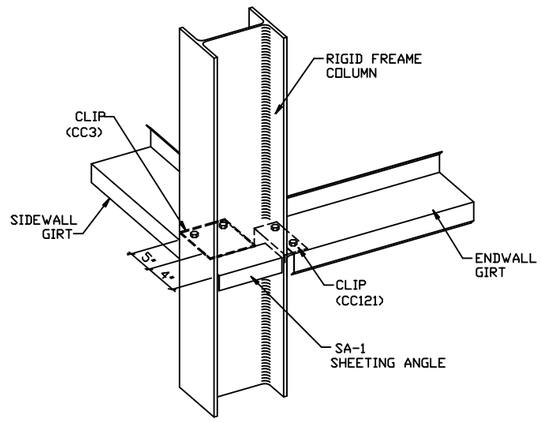
B19	ENDWALL COLUMN TO MF RAFTER



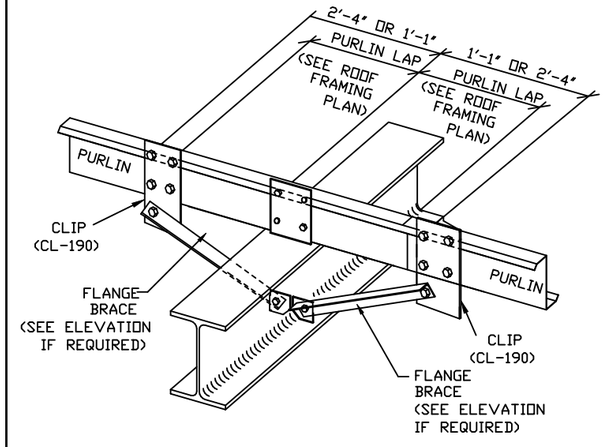
C5	DOUBLE CEE ENDWALL COLUMN
	ALL BOLTS ARE 1/2"ø x 1 1/4" A325 BOLTS U.N.



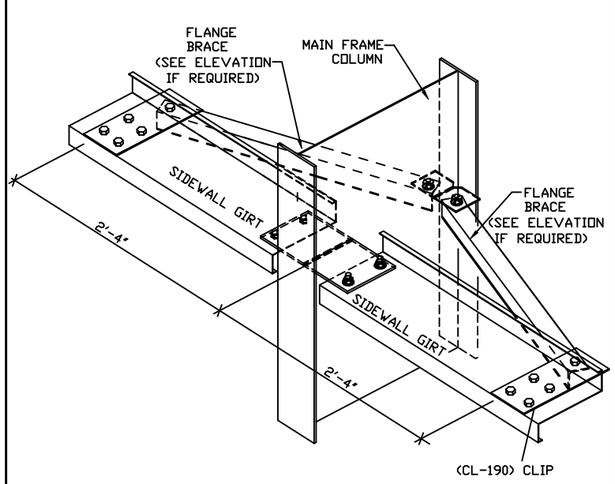
C6	GIRT TO W OR R COLUMN
	ALL BOLTS ARE 1/2"ø x 1 1/4" A325 BOLTS U.N.



D13	RIGID FRAME CORNER COLUMN TO WALL GIRT
	ALL BOLTS ARE 1/2"ø x 1 1/4" A325 BOLTS U.N.



G2	BY-PASS PURLIN TO RAFTER DETAIL
	ALL BOLTS ARE 1/2"ø x 1 1/4" A325 BOLTS U.N.



H6	MAIN FRAME INTERIOR COLUMN FLUSH GIRTS
	ALL BOLTS ARE 1/2"ø x 1 1/4" A325 BOLTS U.N.

ISSUE	DESCRIPTION	DATE	DRN	CHK	DES
A	FOR PERMIT	07.21.2025	KUM	JSK	GFA
0	FOR CONSTRUCTION	07.28.2025	KUM	JSK	GFA

Federal Steel Systems

DESCRIPTION	DETAIL DRAWINGS
BUYER / CUSTOMER	DANIEL WHITE
END USER	DANIEL WHITE
END USE	OTHER
STREET	499 PARTIN RD
CITY, STATE, ZIP	DUNN, NC 28339
COUNTY	HARNETT

JOB#	J-113945	J-113945	SCALE	N.T.S.	DWG#	S1 OF S10

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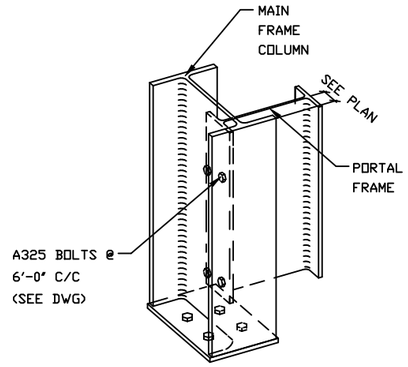
FOR CONSTRUCTION

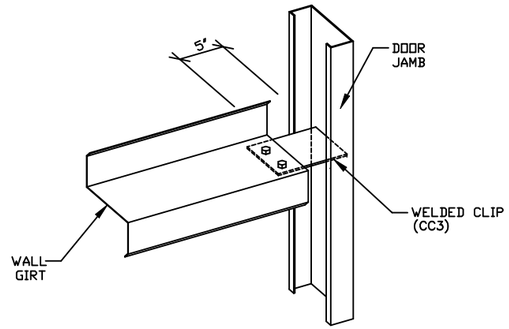
NORTH CAROLINA PROFESSIONAL SEAL 15319 ENGINEER FREDERICK DEAMPANA

08/22/2025



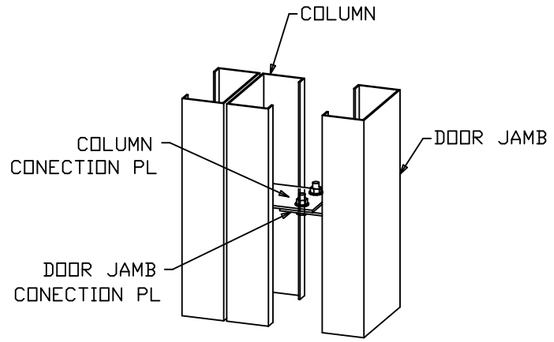
H9 FIXED BASE OR PORTAL COLUMN

ALL BOLTS ARE 1/2"ø x 1 1/4" A325 BOLTS U.N.



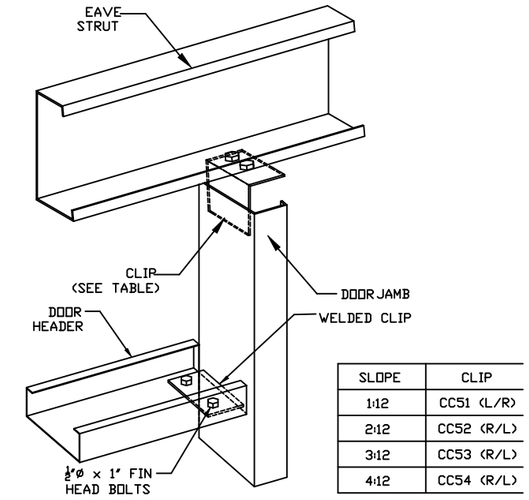
K3 WALL GIRT TO DOOR JAMB

ALL BOLTS ARE 1/2"ø x 1 1/4" A325 BOLTS U.N.



K6 WALL COLUMN TO DOOR JAMB

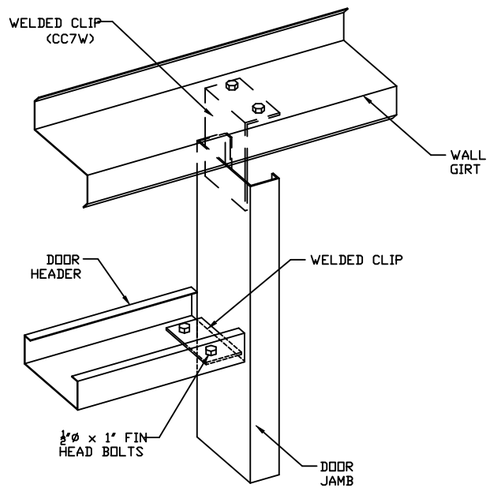
ALL BOLTS ARE 1/2"ø x 1 1/4" A325 BOLTS U.N.



SLOPE	CLIP
1:12	CC51 (L/R)
2:12	CC52 (R/L)
3:12	CC53 (R/L)
4:12	CC54 (R/L)

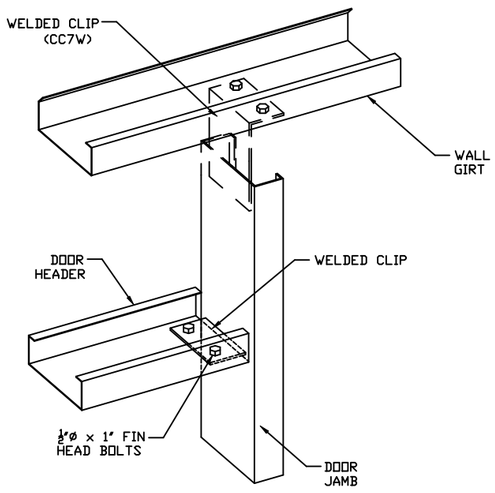
L1 DOOR JAMB TO EAVE STRUT

ALL BOLTS ARE 1/2"ø x 1 1/4" A325 BOLTS U.N.



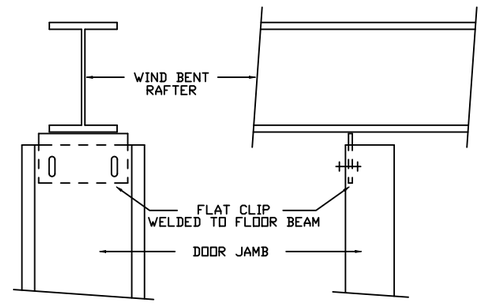
L8 DOOR JAMB TO WALL GIRT WELDED CLIPS

ALL BOLTS ARE 1/2"ø x 1 1/4" A325 BOLTS U.N.

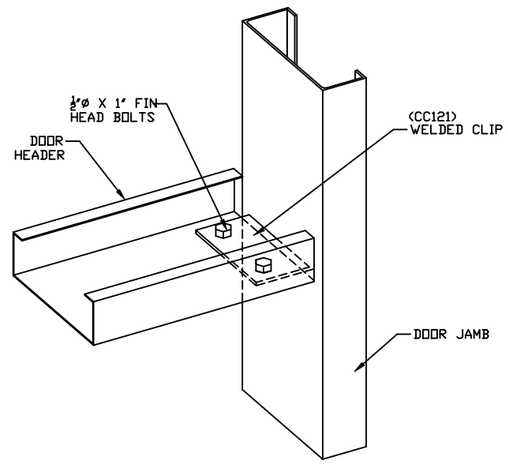


L8X DOOR JAMB TO WALL GIRT WELDED CLIPS

ALL BOLTS ARE 1/2"ø x 1 1/4" A325 BOLTS U.N.



L79 DOOR JAMB TO WIND BENT



M5 HEADER TO C DOOR JAMB

ALL BOLTS ARE 1/2"ø x 1 1/4" A325 BOLTS U.N.

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Federal Steel Systems

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CITY, STATE, ZIP	DUNN, NC 28339					
COUNTY	HARNETT					
JOB#	J-113945	J-113945	SCALE	N.T.S.	DWG#	S2 OF S10

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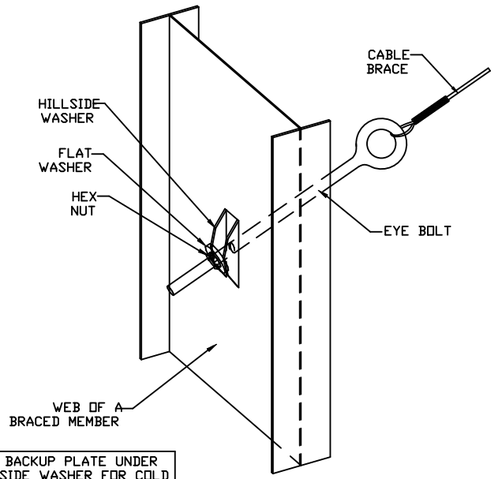
FOR CONSTRUCTION

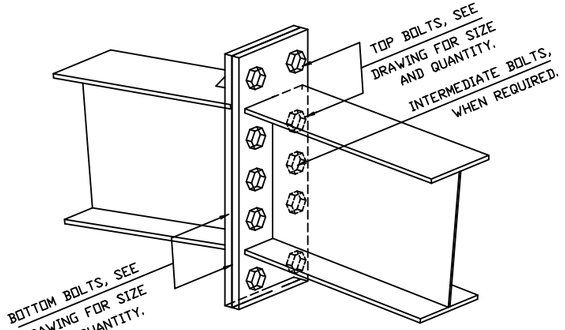
NORTH CAROLINA PROFESSIONAL SEAL 15319 ENGINEER FREDERICK POMPANA

08/22/2025



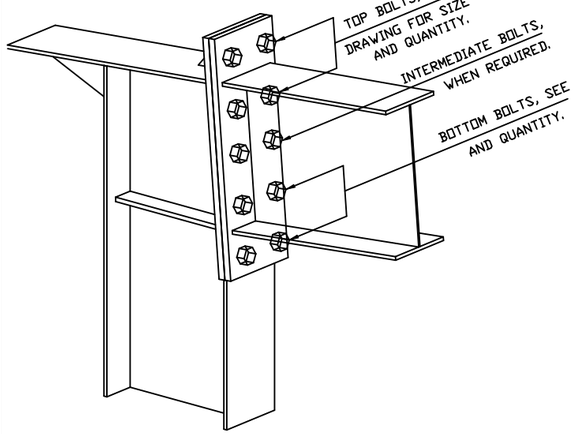
NOTE:USE BACKUP PLATE UNDER THE HILLSIDE WASHER FOR COLD FORM MEMBER

Q2 ROD BRACE TO WEB CONNECTION



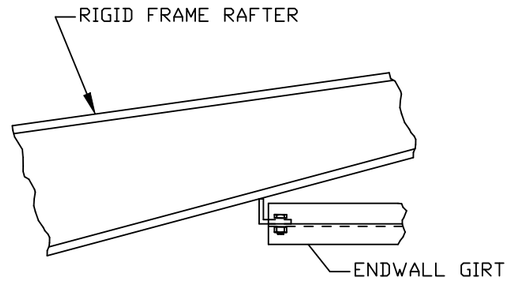
U2 BOLTED PLATE CONNECTION AT PEAK

SEE SPLICE PLATE & BOLT TABLE



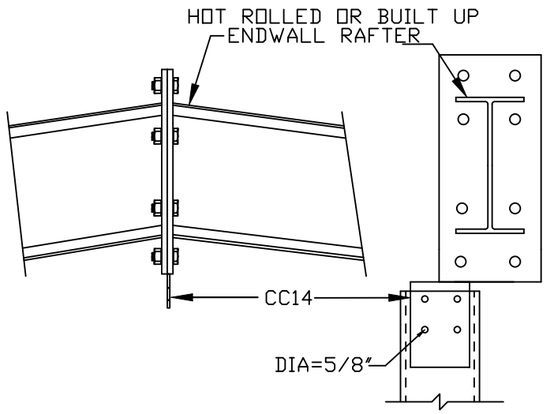
U3 BOLTS FOR RAFTER TO COLUMN CONNECTION

SEE SPLICE PLATE & BOLT TABLE



W4 ENDWALL GIRT TO RAFTER CONNECTION

ALL BOLTS ARE 1/2"ø x 1 1/4" A325 BOLTS U.N.



FX RAFTER SPLICE AT RIDGE
HOT ROLLED OR BUILT UP RAFTER

SEE ENDWALL FRAMING ELEVATION FOR BOLT DIAMETER AND TYPE

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CITY, STATE, ZIP	DUNN, NC 28339					
COUNTY	HARNETT					
JOB# J-113945	J-113945	SCALE	N.T.S.	DWG#	S3 OF S10	

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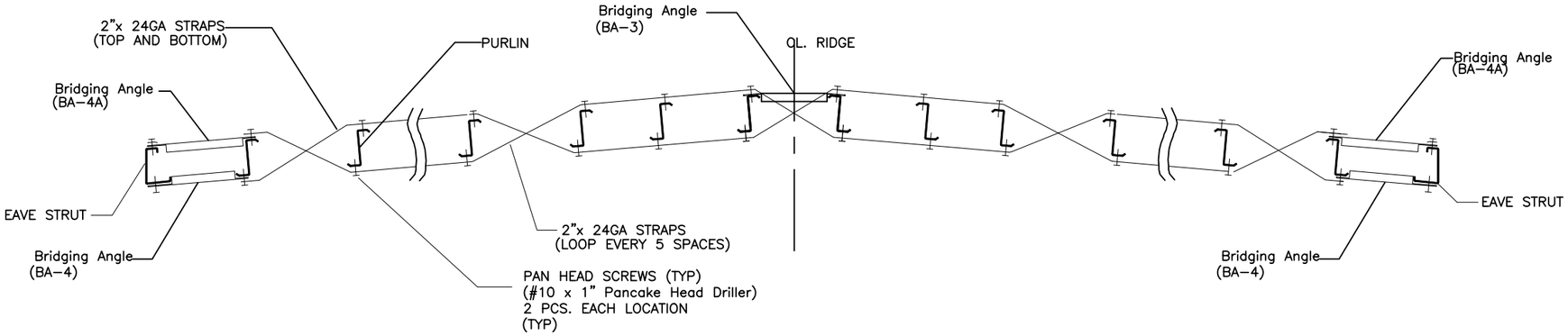
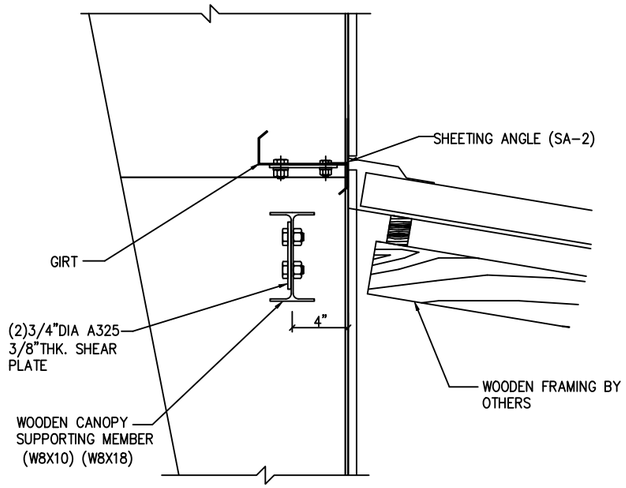
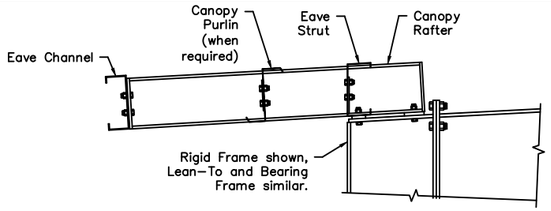
08/22/2025



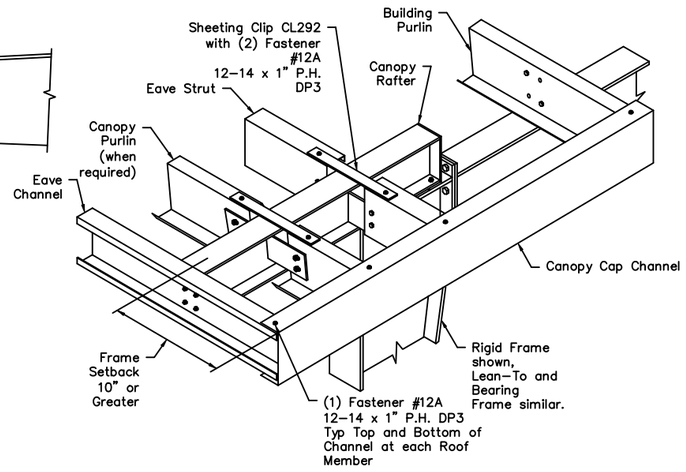
SAG STRAP DETAIL @ ROOF W/ BRIDGING ANGLE (STANDING SEAM)
(BRACED TOP & BOTTOM)



WOODEN CANOPY SUPPORTING MEMBER



Section at Wall LINE



ROOF EXTENSION

ISSUE	DESCRIPTION	DATE	DRN	CHK	DES
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0	FOR CONSTRUCTION	07.28.2025	KUM	JSK	GFA

Federal Steel Systems

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END USER	DANIEL WHITE				
END USE	OTHER				
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CITY, STATE, ZIP	DUNN, NC 28339				
COUNTY	HARNETT				
JOB# J-113945	J-113945	SCALE	N.T.S.	DWG#	S4 OF S10

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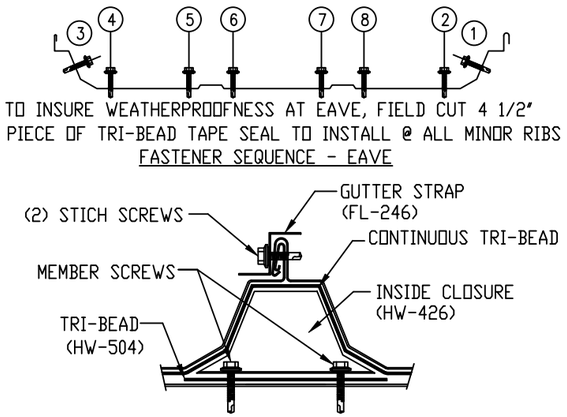
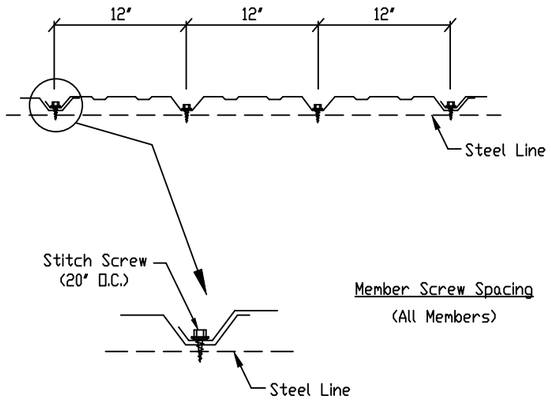
08/22/2025



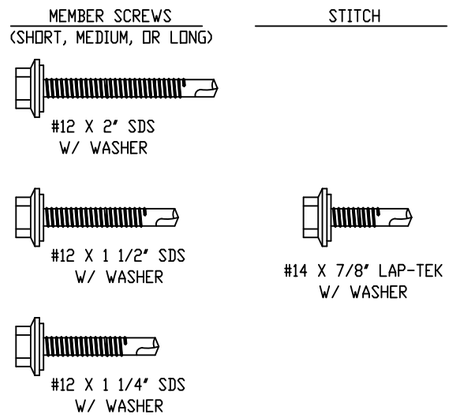
SECTION AT GUTTER STRAP

SCREW	ULTRADEK/DOUBLELOK EAVE INSTALLATION
01	

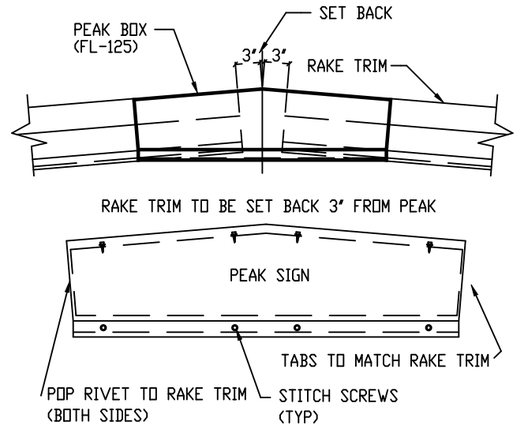


Member Screw Spacing
(All Members)

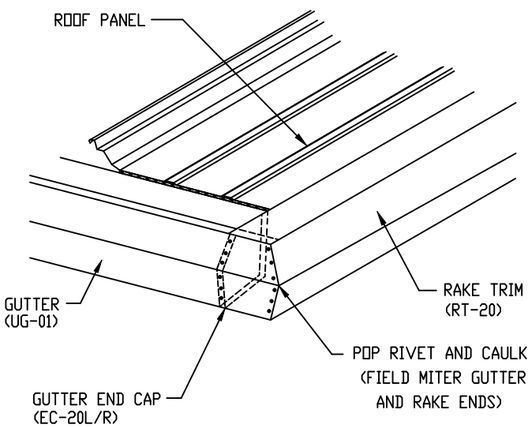
SCREW	REV. PBR FASTENER LOCATION
02	



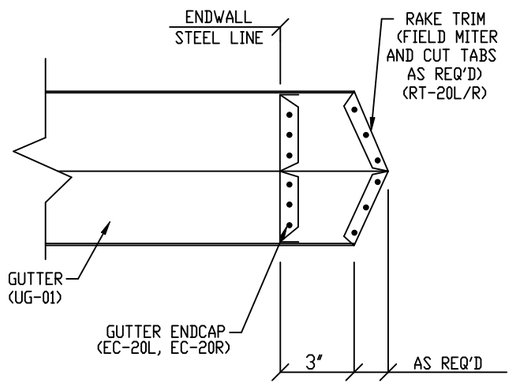
SCREW	FASTENERS SELF DRILLING
03	



TRIM	PEAK BOX INSTALLATION
04	

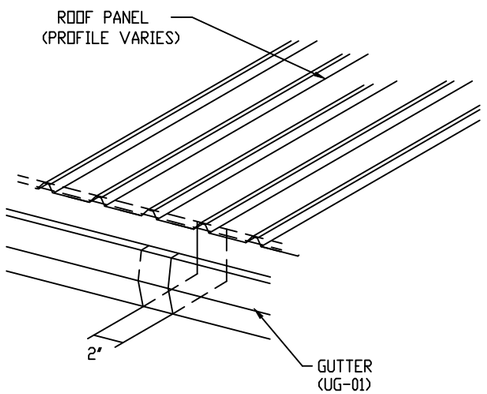


TRIM	EAVE TO RAKE TRANSITION TYPICAL GUTTER
05	

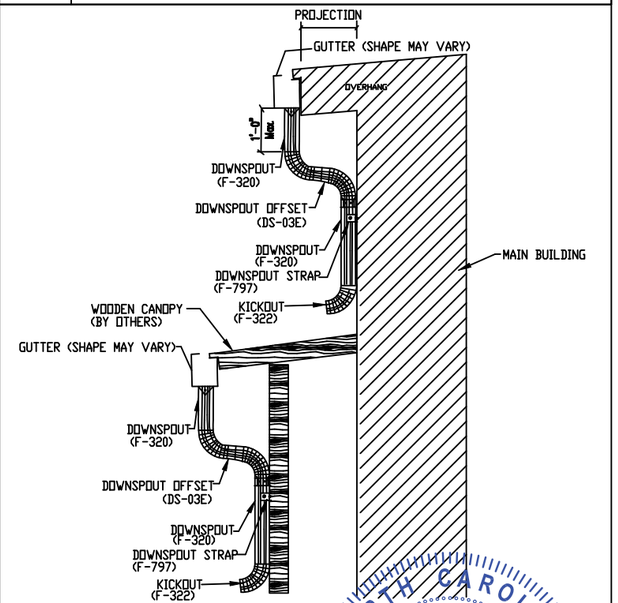


TRIM	EAVE TO RAKE TRANSITION TYPICAL GUTTER
06	

GUTTER SHOWN, RAKE TRIM SIM.



TRIM	TRIM LAPS
07	



TRIM	CORRUGATED DOWNSPOUT
08	

ISSUE	DESCRIPTION	DATE	DRN	CHK	DES
A	FOR PERMIT	07.21.2025	KUM	JSK	GFA
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Federal Steel Systems

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COUNTY	HARNETT

JOB#	J-113945	J-113945	SCALE	N.T.S.	DWG#	S5 OF S10

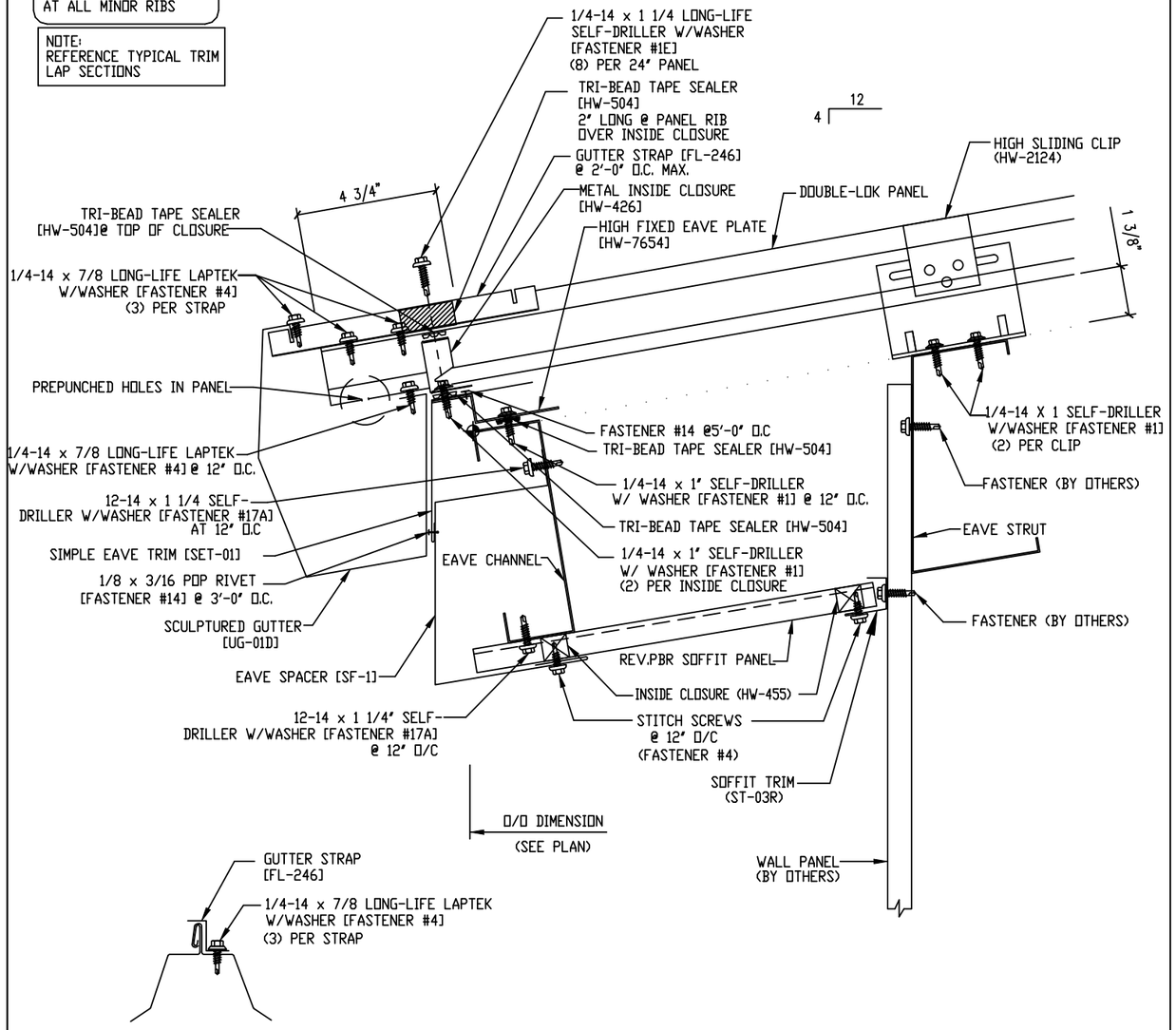
FOR CONSTRUCTION

NORTH CAROLINA PROFESSIONAL SEAL 15319 ENGINEER FREDERICK DECAMPANA

08/22/2025

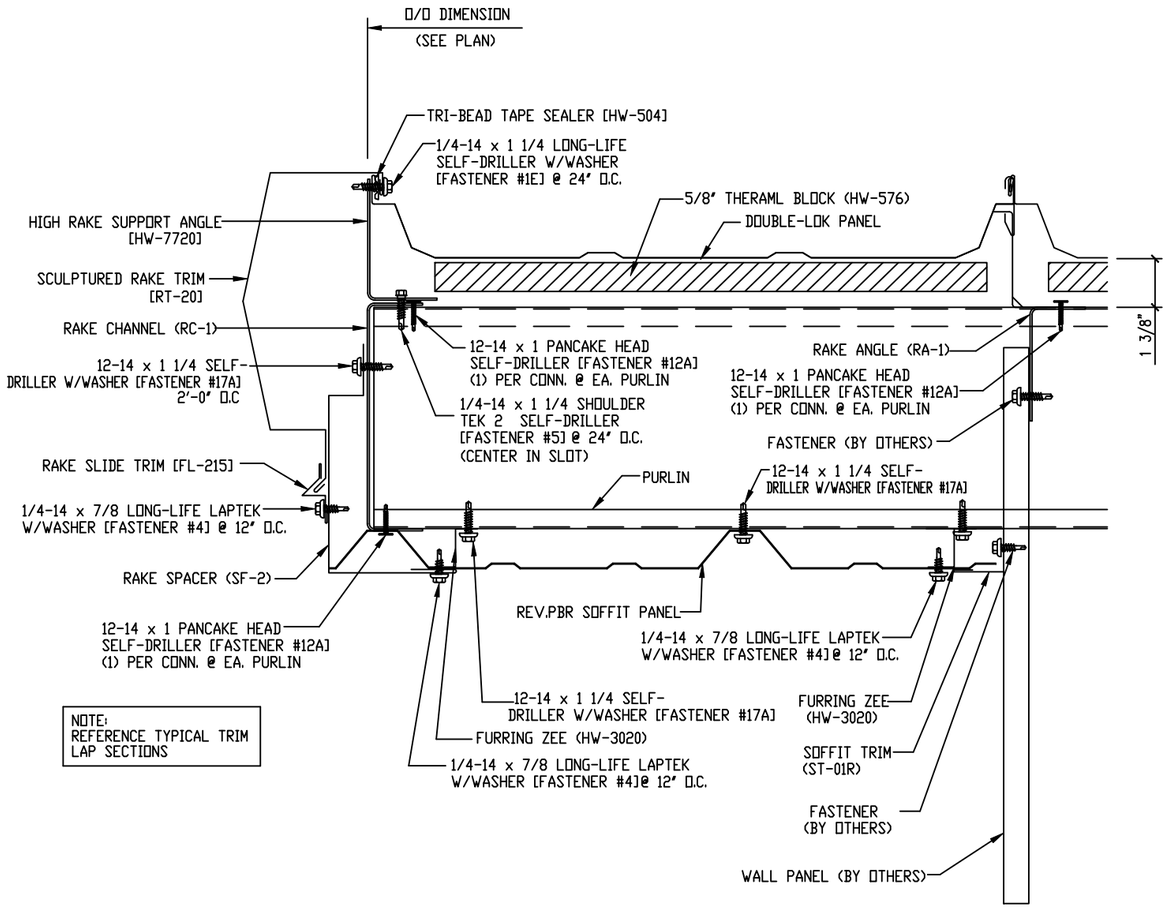
MINOR RIB TAPE SEALER
[HW-512]
AT ALL MINOR RIBS

NOTE:
REFERENCE TYPICAL TRIM
LAP SECTIONS



USE THIS DETAIL AT MAIN BUILDING EAVE EXTENSION

TRIM	DOUBLE LOK
09	LOW EAVE WITH GUTTER AT EAVE EXTENSION



NOTE:
REFERENCE TYPICAL TRIM
LAP SECTIONS

TRIM	RAKE SECTION
10	EXTENSION WITH "REV PBR" SOFFIT

ISSUE	DESCRIPTION	DATE	DRN	CHK	DES
A	FOR PERMIT	07.21.2025	KUM	JSK	GFA
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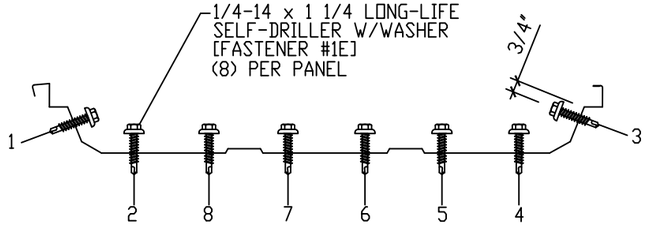
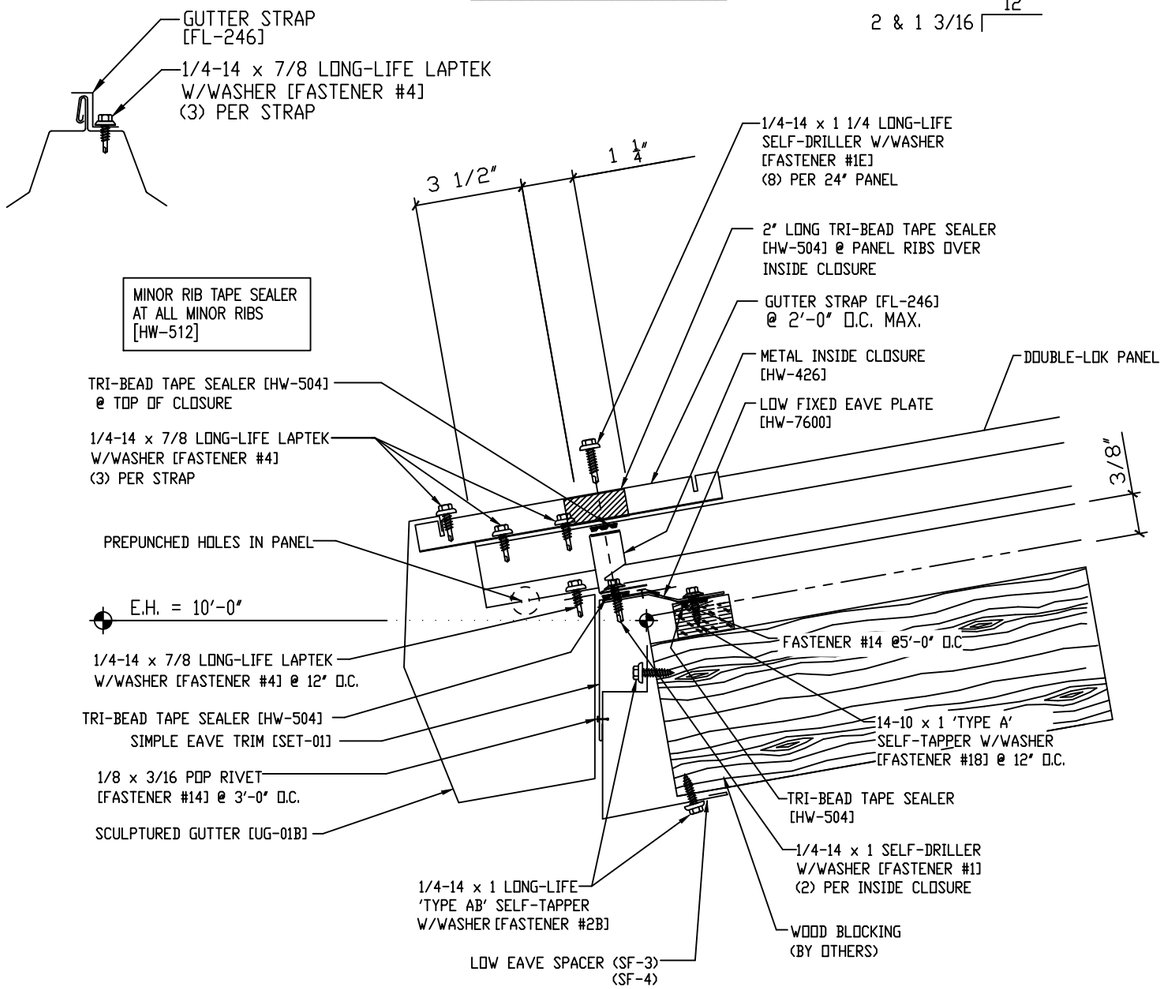


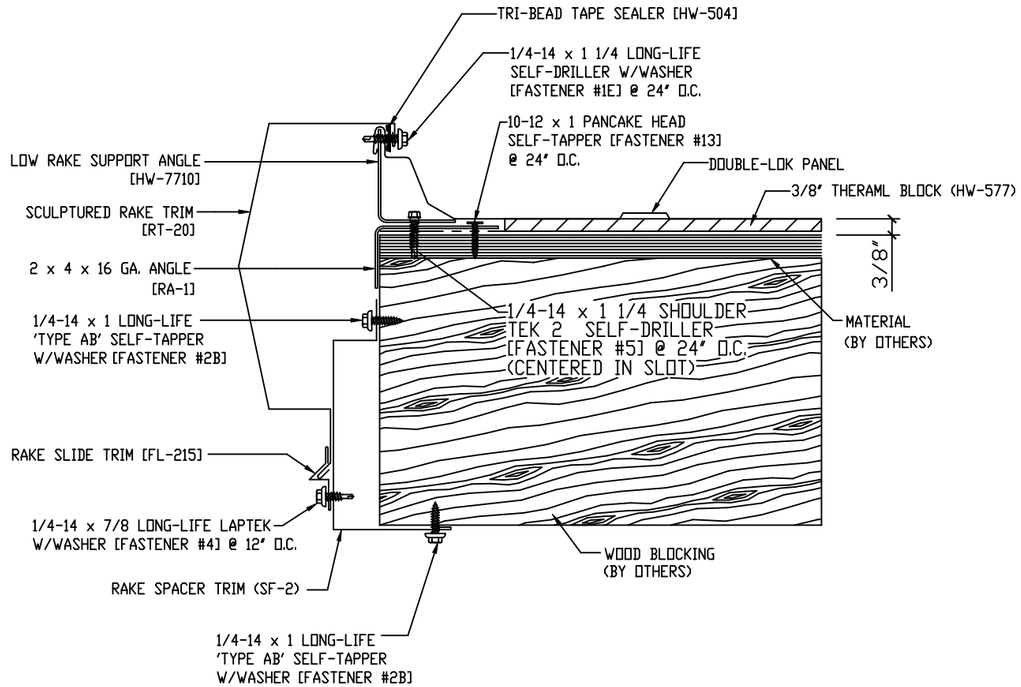
FASTENER SEQUENCE AT EAVE

2 & 1 3/16 | 12



TRIM
11

LOW EAVE DETAIL AT CANOPY



TRIM
12

RAKE DETAIL AT CANOPY

ISSUE	DESCRIPTION	DATE	DRN	CHK	DES
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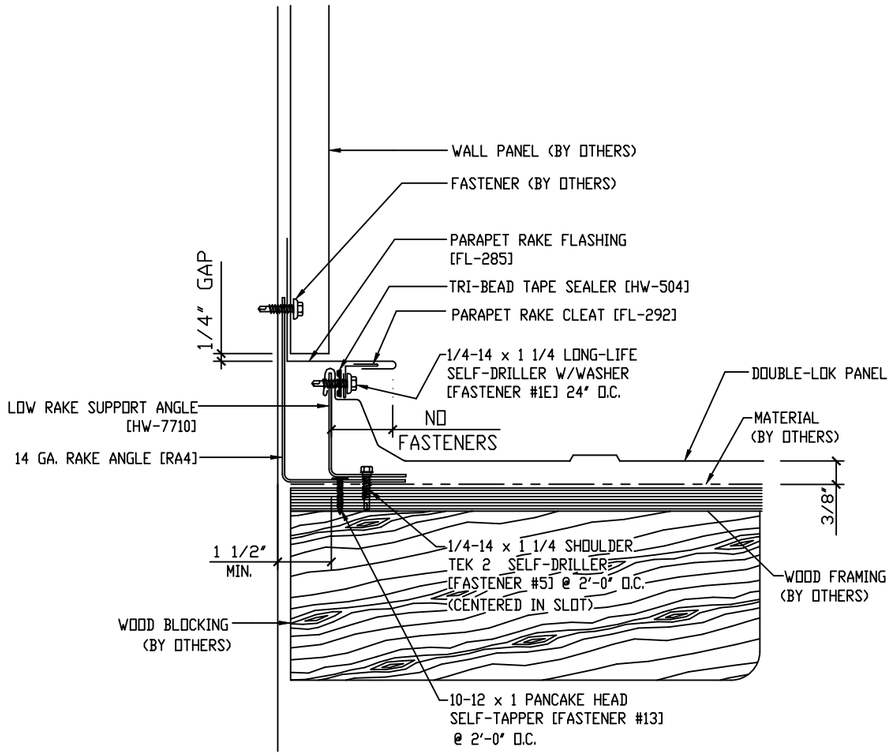
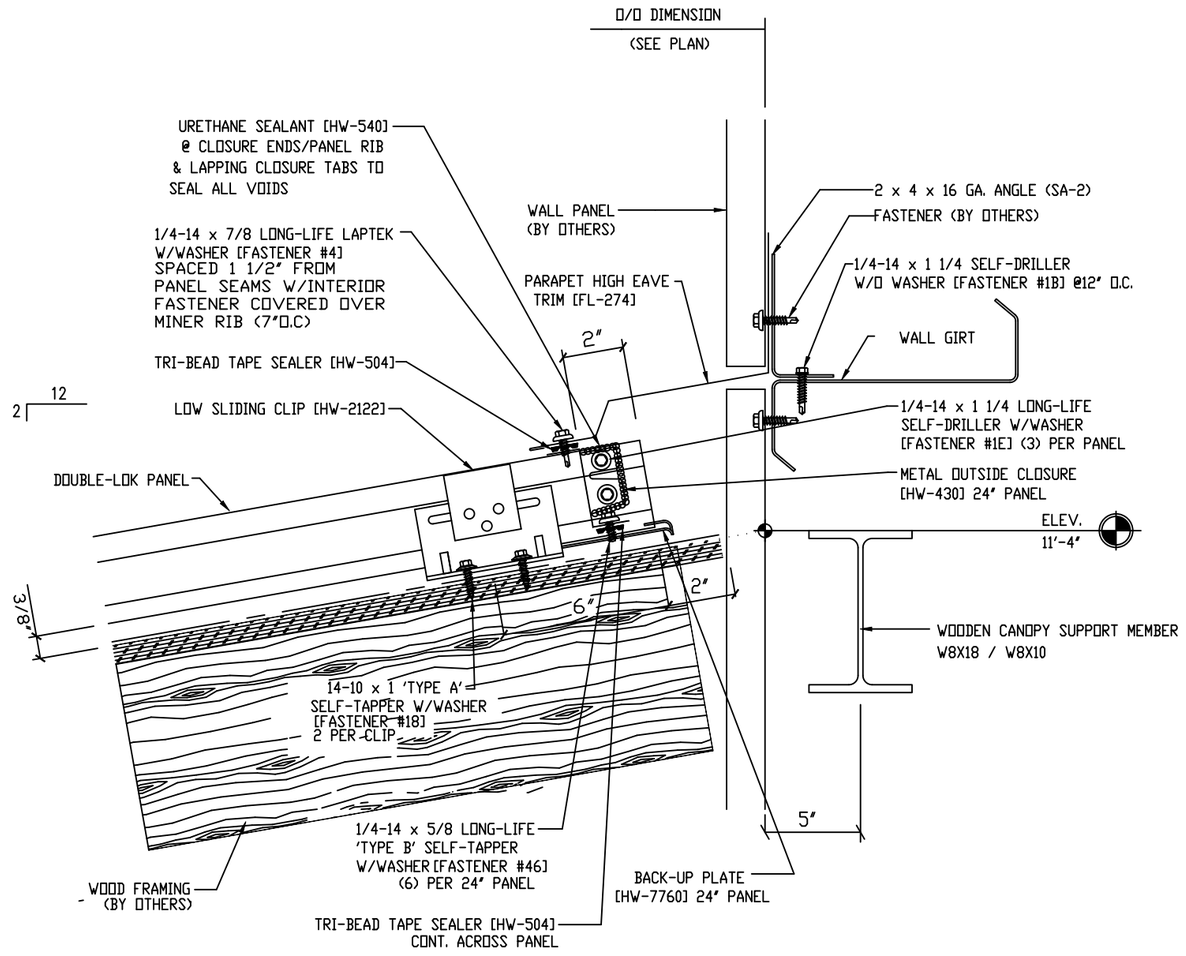
08/22/2025



TRIM	RAKE TRANSTION DETAIL AT CANOPY
13	



TRIM	HIGH SIDE TRANSTION DETAIL AT CANOPY
14	

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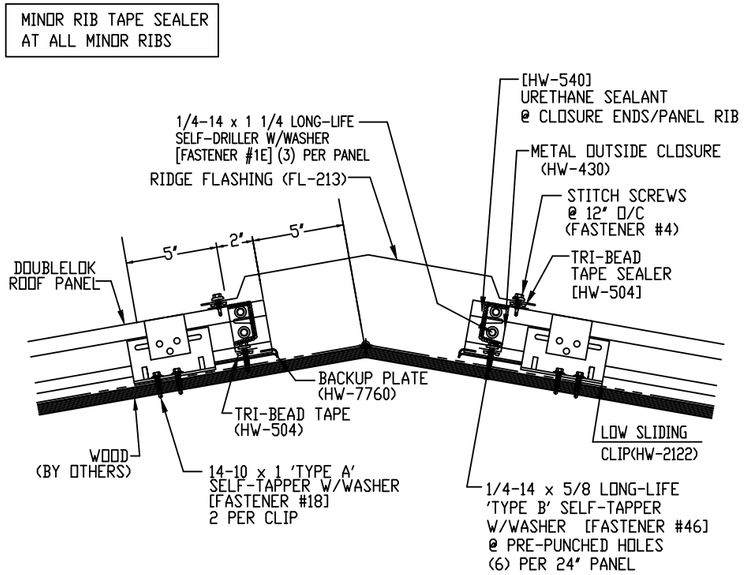
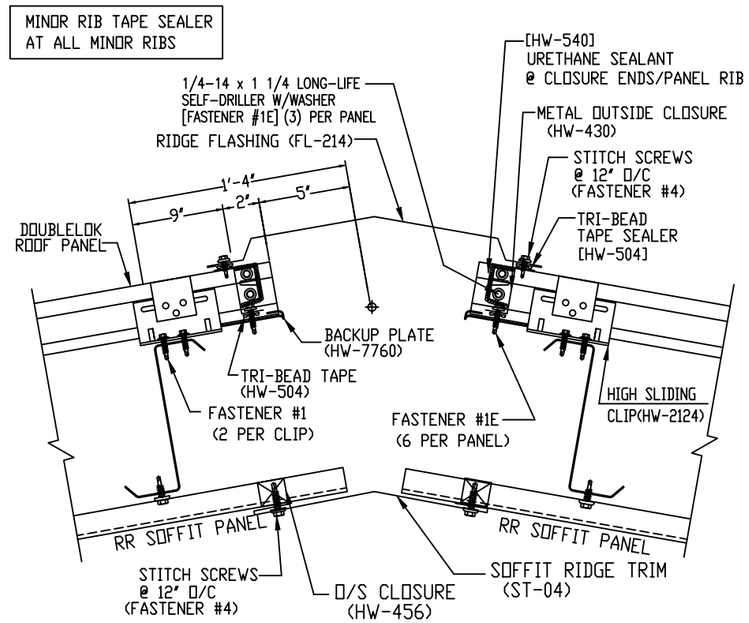
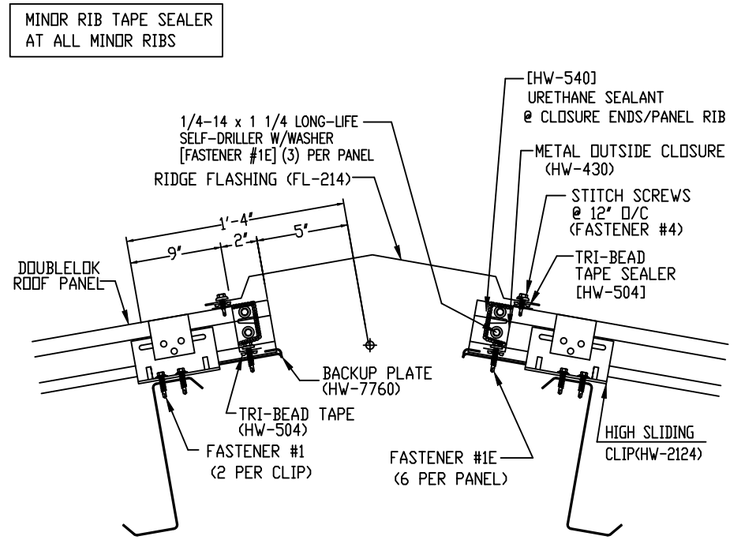
08/22/2025



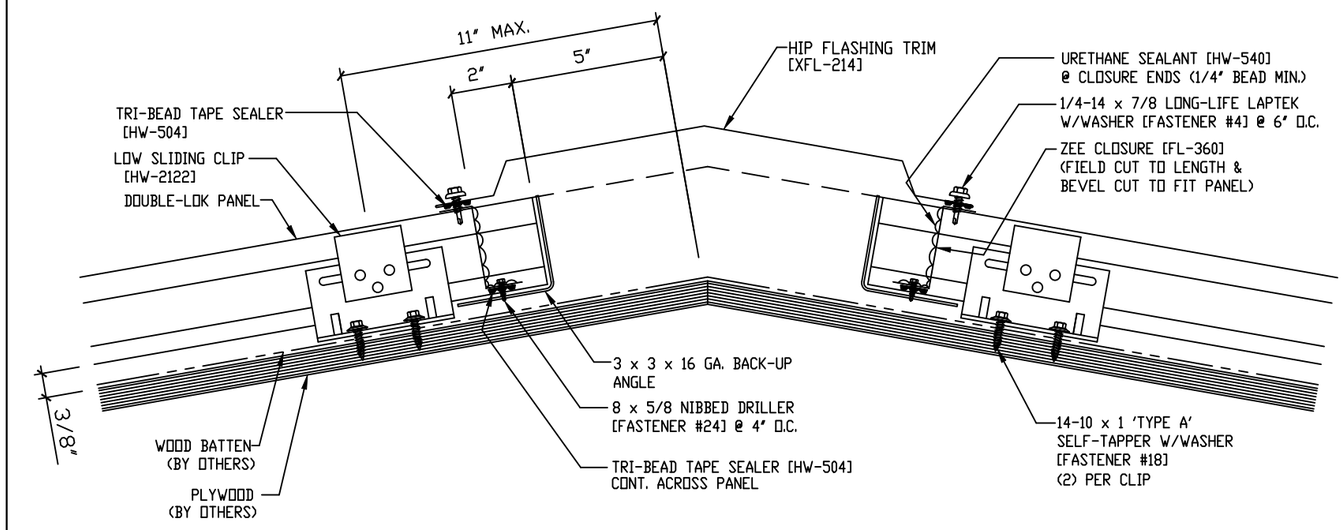
TRIM	RIDGE DETAIL AT SCREEN PORCH
15	



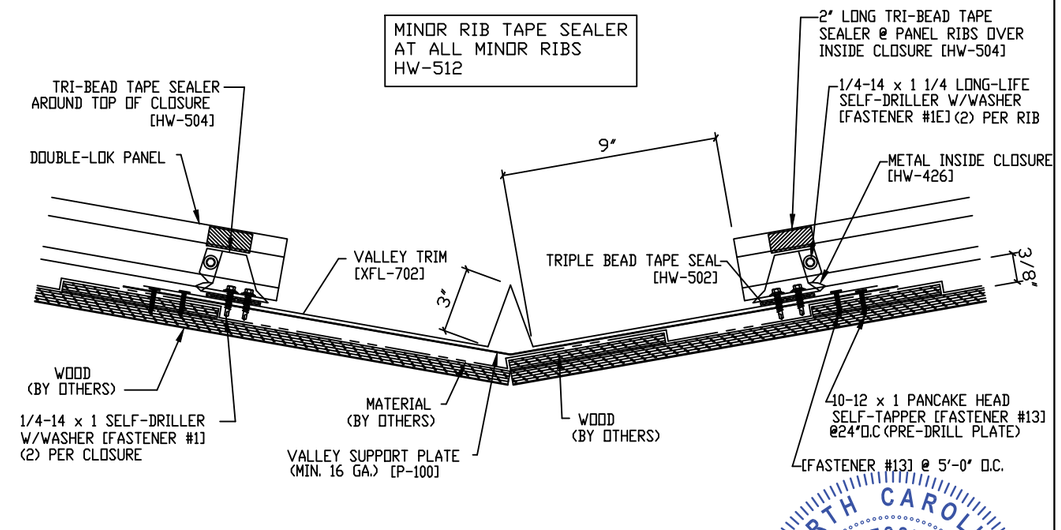
TRIM	DOUBLE LOK RIDGE FLASHING INSTALLTION
16	



TRIM	RIDGE DETAIL AT MAIN BUILDING
16X	



TRIM	HIP DETAIL AT CANOPY
17	



TRIM	VALLEY DETAIL AT CANOPY
18	

ISSUE	DESCRIPTION	DATE	DRN	CHK	DES
A	FOR PERMIT	07.21.2025	KUM	JSK	GFA
0	FOR CONSTRUCTION	07.28.2025	KUM	JSK	GFA

Federal Steel Systems

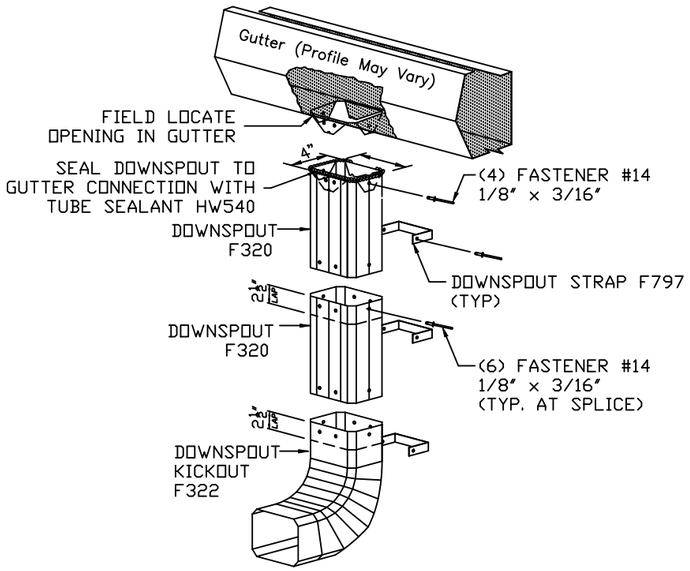
DESCRIPTION	DETAIL DRAWINGS				
BUYER / CUSTOMER	DANIEL WHITE				
END USER	DANIEL WHITE				
END USE	OTHER				
STREET	499 PARTIN RD				
CITY, STATE, ZIP	DUNN, NC 28339				
COUNTY	HARNETT				
JOB#	J-113945	J-113945	SCALE	N.T.S.	DWG#	S9 OF S10

SEALING OF THIS DRAWING DOES NOT IMPLY OR CONSTITUTE THAT FSS ENGINEER IS THE ENGINEER OF RECORD OR THE DESIGN PROFESSIONAL FOR THIS PROJECT. ONLY THE DESIGN OF THE METAL BUILDING SYSTEM AS FURNISHED BY THE FABRICATOR IS INCLUDED. FOUNDATION ANALYSIS, ELECTRICAL AND MECHANICAL SYSTEMS AND / OR OTHER PARTS SUPPLIED BY ANYONE OTHER THAN THE FABRICATOR ARE SPECIFICALLY EXCLUDED. NO INSPECTION OR SUPERVISION IS IMPLIED.

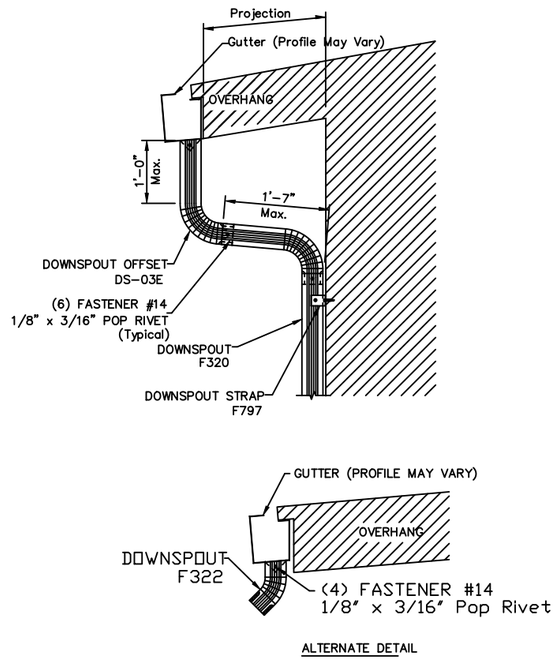
FOR CONSTRUCTION

NORTH CAROLINA PROFESSIONAL SEAL 15319 ENGINEER FREDERICK POMPANA

08/22/2025

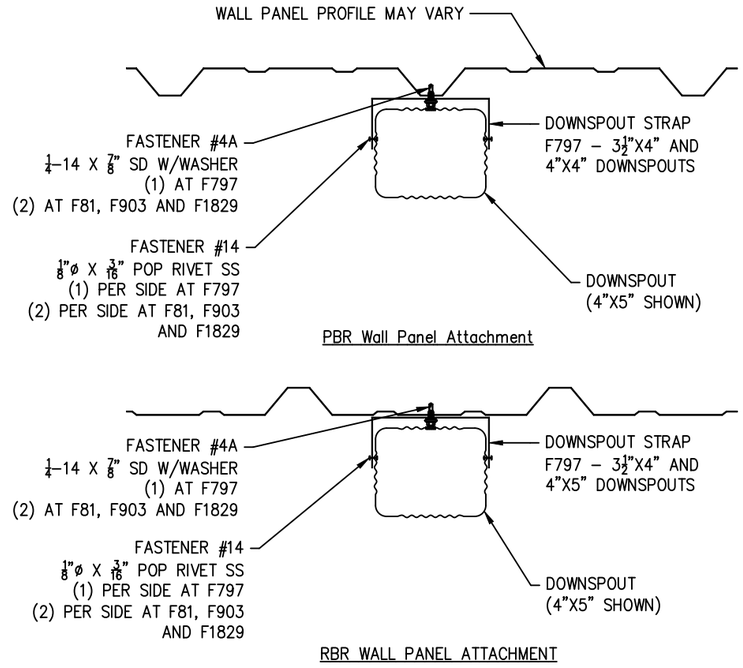


TRIM	ROLL FORM DOWN SPOUT DETAIL
19	



ALTERNATE DETAIL

TRIM	ROLL FORM DOWN SPOUT DETAIL
20	



PBR Wall Panel Attachment

RBR WALL PANEL ATTACHMENT

TRIM	DOWN SPOUT STRAP DETAIL
21	

ISSUE	DESCRIPTION	DATE	DRN	CHK	DES
A	FOR PERMIT	07.21.2025	KUM	JSK	GFA
0	FOR CONSTRUCTION	07.28.2025	KUM	JSK	GFA

Federal Steel Systems

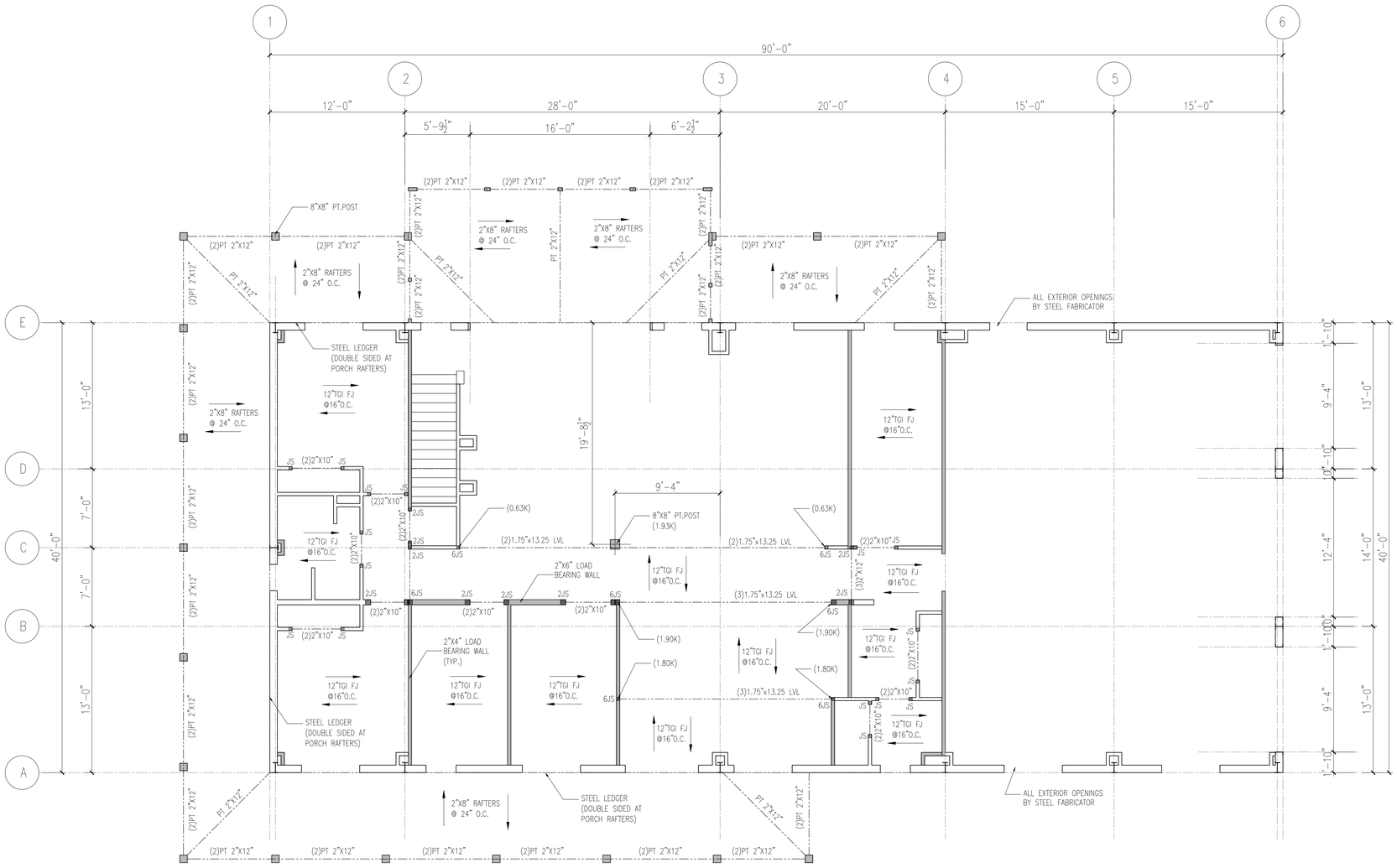
DESCRIPTION	DETAIL DRAWINGS
BUYER / CUSTOMER	DANIEL WHITE
END USER	DANIEL WHITE
END USE	OTHER
STREET	499 PARTIN RD
CITY, STATE, ZIP	DUNN, NC 28339
COUNTY	HARNETT

JOB#	J-113945	J-113945	SCALE	N.T.S.	DWG#	S10 OF S10

FOR CONSTRUCTION

NORTH CAROLINA PROFESSIONAL SEAL 15319 ENGINEER FREDERICK CAMPANA

08/22/2025



03 FOUNDATION–FRAMING PLAN 3/16"=1'-0"

GENERAL CONDITIONS:

1. GC SHALL ADHERE TO ALL OSHA AND LOCAL SAFETY CODES.
2. GC SHALL MAINTAIN A CLEAN JOB SITE PER INDUSTRY STANDARDS.
3. GC SHALL ARRANGE AND MAINTAIN STORAGE OF ALL MATERIALS RELATIVE TO CONSTRUCTION AND COORDINATE WITH ARCHITECT/OWNER WHEN NECESSARY PRIOR TO DELIVERY OF MATERIALS.
4. SEE CONTRACT BETWEEN GC AND OWNER FOR SPECIFIC MODES AND METHODS OF GENERAL CONDITIONS.

SUBSTITUTIONS/SHOP DRAWINGS:

1. GC SHALL SUBMIT TO ARCHITECT ALL SUBMITTALS PER REQUIRED SUBMITTAL LIST (TBD BY PROJECT TEAM/ARCHITECT) IN A TIMELY MANNER AS TO ALLOW FOR ONE WEEK MINIMUM REVIEW TIME BY ARCHITECT.
2. ALL SUBSTITUTIONS SHALL BE SUBMITTED TO ARCHITECT PRIOR TO ORDERING OF SPECIFIC MATERIALS AND/OR INSTALLATION.

SITE WORK:

1. SITE WORK DESIGN AND INSTALLATION BY OTHERS.

BUILDING EXTERIOR:

1. SEE EXTERIOR ELEVATIONS BY OTHERS.

INTERIOR FRAMING:

1. INTERIOR BEARING WALLS SHALL BE 2"X4"/2"X6" WD. STUDS @ 16"O.C. W/ANCHOR BOLTS AS REQD.
3. INTERIOR NON LOAD BEARING WALLS SHALL BE 2"X4" WD. STUDS @ 16"O.C.
4. ALL FLOORS ARE 14" WD.I-JOISTS. SEE SHOPS.
5. STEEL SHOPS SUPPLIED BY OTHERS. SEE SHOPS.

DOORS & GLAZING:

1. ALL WINDOW AND DOORS BY OTHERS.

INTERIOR FINISHES:

1. ALL INTERIOR FINISHES BY OTHERS.

PLUMBING:

1. PLUMBING DESIGN PROVIDED BY GC/OWNER AND COORDINATED WITH ARCHITECT.
2. GC SHALL COORDINATE AND LOCATE ALL ROOF PENETRATIONS WITH PLUMBING SUB AND ARCHITECT.

MECHANICAL:

1. MECHANICAL DESIGN PROVIDED BY GC/OWNER AND COORDINATED WITH ARCHITECT.
2. GC SHALL COORDINATE AND LOCATE ALL ROOF PENETRATIONS WITH MECHANICAL SUB AND ARCHITECT.
3. GC SHALL COORDINATE FINAL BALANCING OF MECHANICAL SYSTEM PRIOR TO FINAL PUNCH AND CLOSEOUT OF CONSTRUCTION CONTRACT.

ELECTRICAL:

1. ELECTRICAL DESIGN PROVIDED BY GC/OWNER AND COORDINATED WITH ARCHITECT..
2. ANY ELECTRICAL INFORMATION PROVIDED IS FOR COORDINATION PURPOSES ONLY.

EQUIPMENT:

1. ALL EQUIPMENT PROVIDED BY GC UNLESS NOTED OTHERWISE.
2. GC SHALL PROVIDE ALL CONNECTIONS FOR EQUIPMENT.

02 GEN. NOTES

WINDOW KEY
DOOR KEY
FRAME KEY
INT. ELEVATION
EXT. ELEVATION
SECTION DETAIL
MISC.DETAIL CUT
CLOSET NOTE: SHELVES/RODS 55/1R
ELEVATION CHANGE
MAIN STRUCTURAL AXIS OR CL.
RATED ASSEMBLY (SEE PLAN KEY FOR TYPE)

01 SYMBOLS KEY

Michael Morse, Architect
2310 Weymouth Court, Raleigh, NC 27612
Contact Person: Michael Morse
(p) 919-889-2305

Michael D. Morse REGISTERED ARCHITECT 8545 NORTH CAROLINA Raleigh, NC

WHITE RESIDENCE
Dunn, NC

New Single-Family House

Revisions

8-19-25

UPPER FLOOR FRAMING PLAN

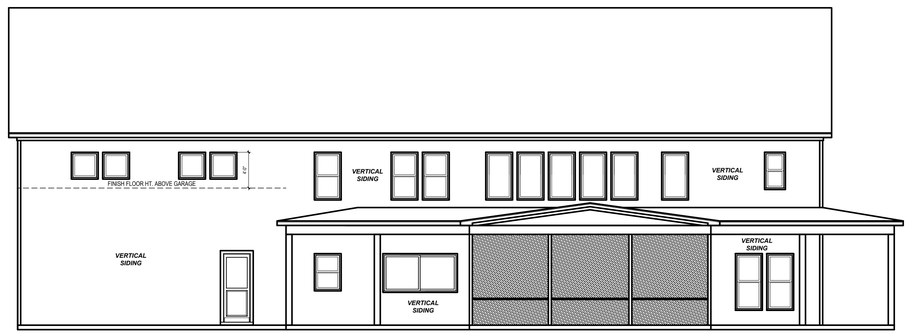
A001

1 of 1

PERMIT

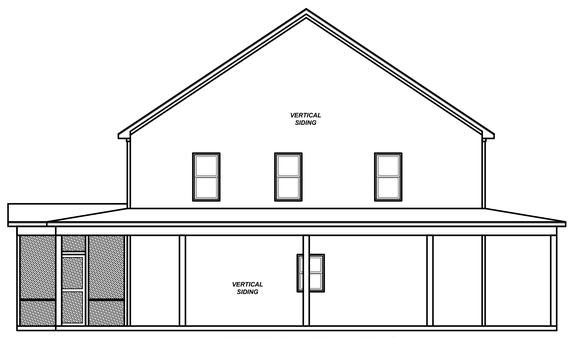
FRONT ELEVATION

1/4" = 1'-0"



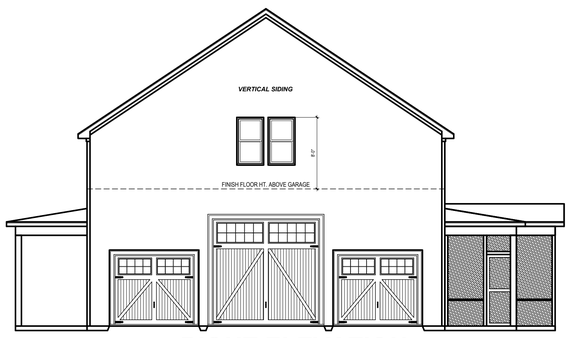
REAR ELEVATION

1/8" = 1'-0"



LEFT ELEVATION

1/8" = 1'-0"



RIGHT ELEVATION

1/8" = 1'-0"

REVIEWER'S SEAL

Project #:
25-185
Date:
6-6-25
Drawn/Design By:
KBB
Scale:
REFER TO ELEV.

K&A DESIGNS, INC. CORPORATE Kent Butters 2007 NORTH CAROLINA

9101 Ten-Ten Rd.
Raleigh, NC 27603
O: (919) 302-0693
Website: www.KandAHomeDesigns.com
Email: Kent@KandAHomeDesigns.com

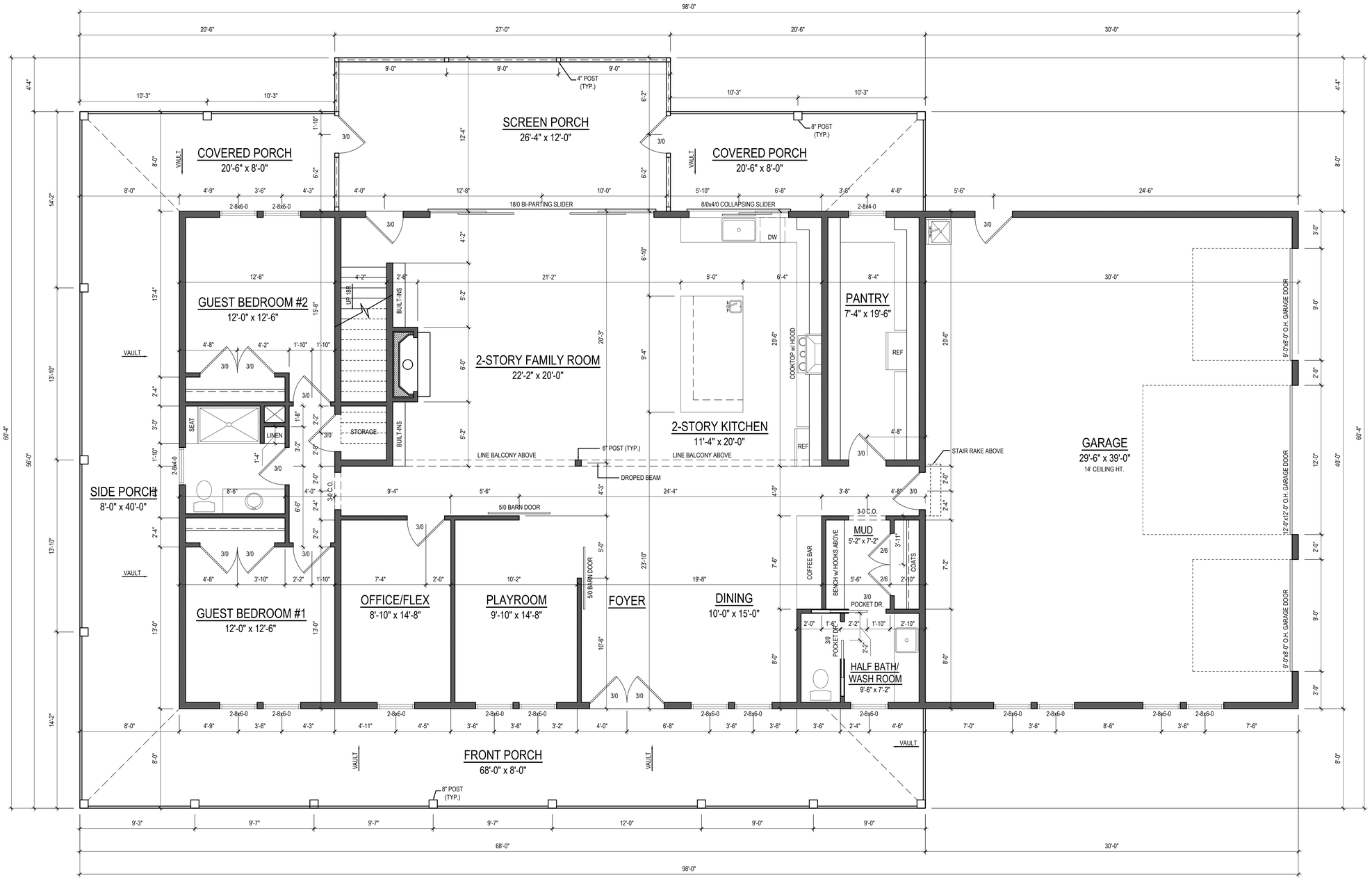
K&A HOME DESIGN Inc.

Project Name:
White Residence

Client Name:
Daniel & Carla White
895 November Lane
Willow Spring, NC 27592

ELEVATIONS

Sheet Number
1
of 3



FIRST FLOOR PLAN

1/4" = 1'-0" *CEILING HT. = 10'-0"*

REVIEWER'S SEAL

Project #: 25-185
Date: 6-6-25
Drawn/Design By: KBB
Scale: 1/4"=1'-0"

K&A DESIGNS, INC. CORPORATE Kent Butters 2007 NORTH CAROLINA

9101 Ten-Ten Rd.
Raleigh, NC 27603
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Website: www.KandAHomeDesigns.com
Email: Kent@KandAHomeDesigns.com

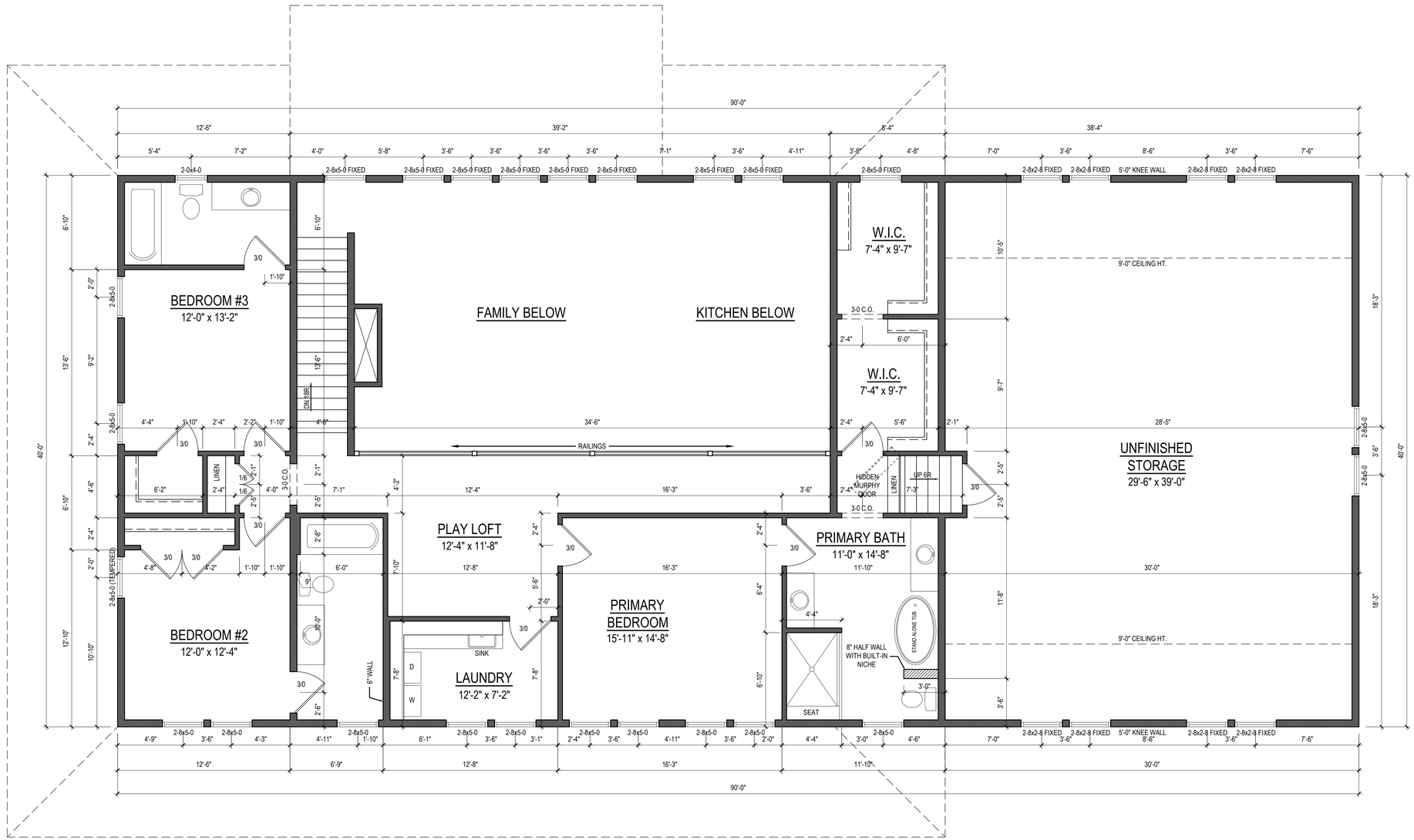
K&A HOME DESIGN Inc.

Project Name: ***White Residence***

Client Name: ***Daniel & Carla White***
895 November Lane
Willow Spring, NC 27592

FIRST FLOOR

Sheet Number 2 of 3



SECOND FLOOR PLAN

1/4" = 1'-0" *CEILING HT. = 9'-0"*

REVIEWER'S SEAL

Project #:
25-185

Date:
6-6-25

Drawn/Design By:
KBB

Scale:
1/4"=1'-0"

K&A DESIGNS, INC. CORPORATE Kent Butters 2007 NORTH CAROLINA

9101 Ten-Ten Rd.
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K&A HOME DESIGN Inc.

Email: Kent@KandAHomeDesigns.com
Website: www.KandAHomeDesigns.com

Project Name:
White Residence

Client Name:
Daniel & Carla White
895 November Lane
Willow Spring, NC 27592

SECOND FLOOR

Sheet Number
3
of 3

GENERAL NOTES:

1. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY THAT ALL DIMENSIONS, ROOF PITCHES, AND SQUARE FOOTAGE ARE CORRECT PRIOR TO CONSTRUCTION. K&A HOME DESIGNS, INC. IS NOT RESPONSIBLE FOR ANY DIMENSIONING, ROOF PITCH, OR SQUARE FOOTAGE ERRORS ONCE CONSTRUCTION BEGINS.
2. ALL WALLS SHOWN ON THE FLOOR PLANS ARE DRAWN AT 4" UNLESS NOTED OTHERWISE.
3. ALL ANGLED WALL SHOWN ON THE PLANS ARE 45 DEGREES UNLESS NOTED OTHERWISE.
4. STUD WALL DESIGN SHALL CONFORM TO ALL NORTH CAROLINA STATE BUILDING CODE REQUIREMENTS.
5. DO NOT SCALE PLANS. DRAWING SCALE MAY BE DISTORTED DUE TO COPIER IMPERFECTIONS.
6. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH NORTH CAROLINA RESIDENTIAL STATE BUILDING CODE, 2018 EDITION.

SQUARE FOOTAGE

HEATED SQUARE FOOTAGE		UNHEATED SQUARE FOOTAGE	
FIRST FLOOR=	2400	GARAGE=	1200
SECOND FLOOR=	1640	COVERED PORCH=	1192
THIRD FLOOR=	N/A	SCREEN PORCH=	333
BASEMENT=	N/A	DECK=	N/A
		STORAGE=	1192

TOTAL HEATED= 4040 **TOTAL UNHEATED= 3917**

CRAWL SPACE VENTILATION CALCULATIONS

-VENT LOCATIONS MAY VARY FROM THOSE SHOWN ON THE PLAN BUT SHOULD BE PLACED TO PROVIDE ADEQUATE VENTILATION AT ALL POINTS TO PREVENT DEAD AIR POCKETS.

-100% VAPOR BARRIER MUST BE PROVIDED WITH 12" MIN. LAP JOINTS.

-THE TOTAL AREA OF VENTILATION OPENINGS MAY BE REDUCED TO 1/1500 AS LONG AS REQUIRED OPENINGS ARE PLACED SO AS TO PROVIDE CROSS-VENTILATION OF THE SPACE. THE INSTALLATION OF OPERABLE LOUVERS SHALL NOT BE PROHIBITED. (COMPLY WITH NC CODE MIN. WITH REGARD TO VENT PLACEMENT FROM CORNERS)

N/A SQ. FT. OF CRAWL SPACE/1500

N/A SQ. FT. OF REQUIRED VENTILATION

PROVIDED BY: N/A VENTS AT 0.45 SQ. FT. NET FREE

VENTILATION EACH= N/A SQ. FT. OF VENTILATION

*****FOUNDATION DRAINAGE- WATERPROOFING PER SECTIONS 405 & 406.***

ATTIC VENTILATION CALCULATIONS

- CALCULATIONS SHOWN BELOW ARE BASED ON VENTILATORS USED AT LEAST 3 FT. ABOVE THE CORNICE VENTS WITH THE BALANCE OF VENTIALTION PROVIDED BE EAVE VENTS.

- CATHEDRAL CEILINGS SHALL HAVE A MIN. 1" CLEARANCE BETWEEN THE BOTTOM OF THE ROOF DECK AND THE INSULATION.

5125 SQ. FT. OF ATTIC/300= 17.08

EACH OF INLET AND OUTLET REQUIRED.

****WALL AND ROOF CLADDING DESIGN VALUES***

- WALL CLADDING IS DESIGNED FOR A 24.1 SQ. FT. OR GREATER POSITIVE AND NEGATIVE PRESSURE.

- ROOF VALUES BOTH POSITVE AND NEGATIVE SHALL BE AS FOLLOWS:

45.5 LBS. PER SQ. FT. FOR ROOF PITCHES OF 0/12 TO 2.25/12

34.8 LBS. PER SQ. FT. FOR ROOF PITCHES OF 2.25/12 TO 7/12

21 LBS. PER SQ. FT. FOR ROOF PITCHES OF 7/12 TO 12/12

***** MEAN ROOF HEIGHT 30' OR LESS***

STRUCTURAL NOTES

1) ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF "NORTH CAROLINA STATE 2018 RESIDENTIAL BUILDING CODE", IN ADDITION TO ALL LOCAL CODES AND REGULATIONS.

2) DESIGN LOADS:

	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION (DL & LL)
ALL FLOORS	40	10	L/360
ATTIC (pull down access)	20	10	L/240
ATTIC (no access)	10	5	L/240
EXTERNAL BALCONY	60	10	L/360
ROOF	20	10	L/180
ROOF TRUSS	20	20	L/240
WIND LOAD	[BASED ON 120 MPH (3-second gusts)]		

3) MINIMUM ALLOWABLE SOIL BEARING PRESSURE = 2000 PSF

4) CONCRETE SHALL HAVE A MINIMUM 28 DAY STRENGTH OF 3000 PSI AND A MAXIMUM SLUMP OF FIVE INCHES UNLESS NOTED OTHERWISE (UNO).

5) MAXIMUM DEPTH OF UNBALANCED FILL AGAINST FOUNDATION WALLS TO BE LESS THAN 4'-0" WITHOUT USING SUFFICIENT WALL BRACING. REFER TO SECTION R404 OF 2018 NC RESIDENTIAL BUILDING CODE FOR BACKFILL LIMITATIONS BASED ON WALL HEIGHT, WALL THICKNESS, SOIL TYPE, AND UNBALANCED BACKFILL HEIGHT

6) ALL FRAMING LUMBER SHALL BE SYP #2 (Fb = 800 PSI) UNO.
ALL FRAMING LUMBER EXPOSED TO THE ELEMENTS SHALL BE TREATED MATERIAL.

7) ALL LOAD BEARING HEADERS SHALL BE (2)2x10 (UNO). ALL WINDOW AND DOOR HEADERS SHALL BE SUPPORTED BY (1) JACK STUD AND (1) KING STUD AT EACH END UNLESS NOTED. ALL OTHER BEAMS SHALL BE SUPPORTED BY 2 STUDS OR THE AMOUNT OF STUDS REQUIRED FOR FULL BEARING AT EACH END UNLESS NOTED. POINT LOADS (STIFF KNEES, ETC.) SHALL CONSIST OF 2 STUDS UNLESS NOTED. ALL SUPPORTS OF 2 STUDS OR MORE SHALL BE TRANSFERRED THROUGH EACH FLOOR TO THE FOUNDATION.

8) ALL EXTERIOR WALLS TO BE SHEATHED WITH MIN. 7/16" WOOD STRUCTURAL PANELS FASTNED WITH 8D NAILS 6" O.C. AT EDGES AND 12" O.C. AT INT. SUPPORTS. BLOCKING SHALL BE INSTALLED IF LESS THAN 50 PERCENT OF THE WALL LENGTH IS SHEATHED. WHERE BLOCKING IS REQ'D, ALL PANELS SHALL BE FASTENED AT 3" O.C AT EDGES AND 6" O.C. AT INT. SUPPORTS.

9) ALL STRUCTURAL STEEL SHALL ASTM A-36. STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3-1/2" INCHES AND FULL FLANGE WIDTH. PROVIDE SOLID BEARING FROM BEAM SUPPORT TO FOUNDATION. BEAMS SHALL BE ATTACHED TO EACH SUPPORT WITH TWO LAG SCREWS (1/2 DIAMETER AND 4" LONG). LATERAL SUPPORT IS CONSIDERED ADEQUATE PROVIDING THE JOISTS ARE TOE NAILED TO THE SOLE PLATES, AND THE SOLE PLATES ARE NAILED OR BOLTED TO THE BEAM FLANGES @ 48" O.C.

10) ANCHOR BOLT PLACEMENT PER SECTION R403.1.6. 1/2" DIAMETER ANCHOR BOLTS SPACED AT 6'-0" O/C AND PLACED 12" FROM THE END OF EACH PLATE SECTION

11) FOUNDATION DRAINAGE-DAMP PROOFING OR WATERPROOFING PER SECTION 405 AND 406 OF 2018 NC RESIDENTIAL BUILDING CODE

12) WALL AND ROOF CLADDING VALUES:
WALL CLADDING SHALL BE DESIGNED FOR A 24.1 SQ.FT. OR GREATER POSITIVE AND NEGATIVE PRESSURE
ROOF VALUES BOTH POSITIVE AND NEGATIVE SHALL BE AS FOLLOWS:
45.5 LBS/SQFT FOR ROOF PITCHES OF 0/12 TO 2.25/12
34.8 LBS/SQFT FOR ROOF PITCHES OF 2.25/12 TO 7/12
21.0 LBS/SQFT FOR ROOF PITCHES OF 7/12 TO 12/12
** MEAN ROOF HEIGHT 30' OR LESS

13) FOR ROOF SLOPES FROM 2:12 THROUGH 4:12, BUILDER TO INSTALL 2 LAYERS OF 15# FELT PAPER

14) IT IS THE CONTRACTOR'S RESPONSIBLITY TO VERIFY ALL DIMENSIONS AND SQ. FTG. ARE CORRECT PRIOR TO CONSTRUCTION. DESIGNER IS NOT RESPONSIBLE FOR DIMENSIONING OR SQ. FTG. ERRORS ONCE CONSTRUCTION BEGINS

R308.4.5 GLAZING & WET SURFACES:
GLAZING IN WALLS, ENCLOSURES OR FENCES CONTAINING or FACING HOT TUBS, SPAS, WHIRLPOOLS, SAUNAS, STEAM ROOMS, BATHTUBS, SHOWERS AND INDOOR or OUTDOOR SWIMMING POOLS WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 INCHES, MEASURED VERTICALLY ABOVE ANY STANDING or WALKING SURFACE SHALL BE CONSIDERED TO BE A HAZARDOUS LOCATION. THIS SHALL APPLY TO SINGLE GLAZING AND EACH PANE IN MULTIPLE GLAZING.

EXCEPTION: GLAZING THAT IS MORE THAN 60 INCHES, MEASURED HORIZONTALLY AND IN A STRAIGHT LINE, FROM THE WATER'S EDGE OF A BATHTUB, HOT TUB, SPA, WHIRLPOOL or SWIMMING POOL or FROM THE EDGE OF A SHOWER, SAUNA or STEAM ROOM

R807.1 ATTIC ACCESS:
AN ATTIC ACCESS OPENING SHALL BE PROVIDED TO ATTIC AREAS THAT EXCEED 400 SQUARE FEET (37.16 M²) AND HAVE A VERTICAL HEIGHT OF 60 INCHES (1524 MM) OR GREATER. THE NET CLEAR OPENING SHALL NOT BE LESS THAN 20 INCHES (508 MM BY 762 MM) AND SHALL BE LOCATED IN A HALLWAY or OTHER READILY ACCESSIBLE LOCATION. A 30-INCH (762 MM) MINIMUM UNOBSTRUCTED HEADROOM IN THE ATTIC SPACE SHALL BE PROVIDED AT SOME POINT ABOVE THE ACCESS OPENING. SEE SECTION M1305.1.3 FOR ACCESS REQUIREMENTS WHERE MECHANICAL EQUIPMENT IS LOCATED IN ATTICS.

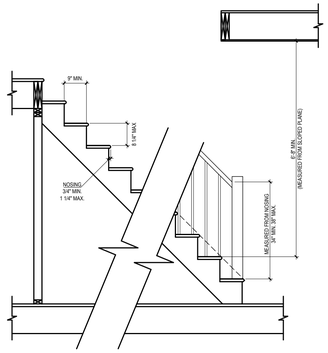
EXCEPTION:
1) CONCEALED AREAS NOT LOCATED OVER THE MAIN STRUCTURE INCLUDING PORCHES, AREAS BEHIND KNEE WALLS, DORMERS, BAY WINDOWS, ETC. ARE NOT REQUIRED TO HAVE ACCESS.
2) PULL DOWN STAIR TREADS, STRINGERS, HANDRAILS, AND HARDWARE MAY PROTRUDE INTO THE NET CLEAR OPENING.

DWELLING / GARAGE SEPARATION (SECTION R302.5, R302.6 and R302.7):
WALLS - A MINIMUM ⅝" GYPSUM BOARD MUST BE INSTALLED ON ALL WALLS SUPPORTING FLOOR/CEILING ASSEMBLIES USED FOR SEPARATION REQUIRED BY THIS SECTION.
OPENING PROTECTION - OPENINGS FROM A PRIVATE GARAGE DIRECTLY INTO A ROOM USED FOR SLEEPING PURPOSES SHALL NOT BE PERMITTED. OTHER OPENINGS BETWEEN THE GARAGE AND RESIDENCE SHALL BE EQUIPPED WITH SOLID WOOD DOORS NOT LESS THAT 1 ⅜ INCHES (35MM) IN THICKNESS, SOLID or HONEYCOMB-CORE STEEL DOORS NOT LESS THAN 1 ⅜ INCHES (35MM) THICK, or 20-MINUTE FIRE-RATED DOORS.
DUCT PENETRATION - DUCTS IN THE GARAGE AND DUCTS PENETRATING THE WALLS or CEILINGS SEPARATING THE DWELLING FROM THE GARAGE SHALL BE CONSTRUCTED OF A MINIMUM NO. 26 GAUGE (0.48MM) SHEET STEEL or OTHER APPROVED MATERIAL AND SHALL NOT HAVE OPENINGS INTO THE GARAGE.
CEILINGS - GARAGE TO BE SEPARATED FROM HABITABLE ROOMS ABOVE BY NOT LESS THAN 5/8-INCH TYPE X GYPSUM BOARD OR EQUIVALENT PER NCRC SECTION R302.6N
STAIRS - ENCLOSED ACCESSIBLE SPACE UNDER STAIRS SHALL HAVE WALLS, UNDER-STAIR SURFACE AND ANY SOFFITS PROTECTED ON THE ENCLOSED SIDE WITH ½ INCH (12.7MM) GYPSUM BOARD.
OTHER PENETRATIONS - PENETRATIONS THROUGH THE SEPARATION REQUIRED IN SECTION R302.6 SHALL BE PROTECTED AS REQUIRED BY SECTION R302.11, ITEM 4.

R609.1 EXTERIOR WINDOWS & DOORS:
THIS SECTION PRESCRIBES PERFORMANCE AND CONSTRUCTION REQUIREMENTS FOR EXTERIOR WINDOWS AND DOORS INSTALLED IN WALLS. WINDOWS AND DOORS SHALL BE INSTALLED AND FLASHED IN ACCORDANCE WITH THE FENESTRATION MANUFACTURER'S WRITTEN INSTRUCTIONS. WINDOW AND DOOR OPENINGS SHALL BE FLASHED IN ACCORDANCE WITH SECTION R703.4. WRITTEN INSTALLATION INSTRUCTIONS SHALL BE PROVIDED BY THE FENESTRATION MANUFACTURER FOR EACH WINDOW OR DOOR.

TABLE N1102.1 INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT

CLIMATE ZONE	MAXIMUM GLAZING U-FACTOR	MINIMUM INSULATION R-VALUE					
		CEILINGS	WALLS	FLOORS	BASEMENT WALLS	SLAB PERIMETER	CRAWL SPACE WALLS
3	.35	R-38 or R-30	R-15	R-19	R-5/13	R-0	R-5/13
4	.35	R-38 or R-30	R-15	R-19	R-10/15	R-10	R-10/15



STAIRWAYS & GAURDS REQUIREMENTS PER 311.7 & R312
EACH TREAD AND RISER MUST BE UNIFORM.
THE GREATEST RISER HEIGHT SHALL NOT EXCEED THE SMALLEST BY MORE THAN 3/8".
THE GREATEST TREAD DEPTH SHALL NOT EXCEED THE SMALLEST BY MORE THAN 3/8".
THE TOP AND BOTTOM RISER OF INTERIOR STAIRS SHALL NOT EXCEED THE SMALLEST RISER BY MORE THAN 3/4".

SUMMARY OF REQUIREMENTS FOR MASONRY FIREPLACES AND CHIMNEYS

ITEM	LETTER	REQUIREMENTS
HEARTH SLAB THICKNESS	A	4"
HEARTH EXTENSION (EACH SIDE OF OPENING)	B	8" FIREPLACE OPENING < 6 SQUARE FOOT 12" FIREPLACE OPENING < 6 SQUARE FOOT
HEARTH EXTENSION (FRONT OF OPENING)	C	16" FIREPLACE OPENING < 6 SQUARE FOOT 20" FIREPLACE OPENING < 6 SQUARE FOOT
HEARTH REINFORCING	D	REINFORCED TO CARRY ITS OWN WEIGHT AND ALL IMPOSED LOADS
THICKNESS OF WALL OF FIREBOX	E	10" SOLID BRICK or 8" WHERE A FIREBRICK LINING IS USED JOINTS IN FIREBRICK 1/4" MAXIMUM
DISTANCE FROM TOP OF OPENING TO THROAT	F	8"
SMOKE CHAMBER WALL THICKNESS UNLINED WALLS	G	6" 8"
CHIMNEY VERTICAL REINFORCING	H	FOUR NO. 4 FULL-LENGTH BARS FOR CHIMNEY UP TO 40" WIDE ADD TWO NO. 4 BARS FOR EACH ADDITIONAL 40" or FRACTION OF WIDTH or EACH ADDITIONAL FLUE.
HORIZONTAL REINFORCING	J	1/4" TIES AT 18" AND TWO TIES AT EACH BEND IN VERTICAL STEEL
BOND BEAMS	K	NO SPECIFIED REQUIREMENTS
FIREPLACE LINTEL	L	NONCOMBUSTIBLE MATERIAL
CHIMNEY WALLS WITH FLUE LINING	M	SOLID MASONRY UNITS or HOLLOW MASONRY UNITS GROUTED SOLID WITH NOT LESS THAN 4-INCH NOMINAL THICKNESS
DISTANCE BETWEEN ADJACENT FLUES	--	SEE SECTION R1003.13
EFFECTIVE FLUE AREA (BASED ON AREA OF FIREPLACE OPENING)	P	SEE SECTION R1003.15
CLEARANCES COMBUSTIBLE MATERIAL MANTEL AND TRIM ABOVE ROOF	R	SEE SECTION R1001.11 AND R1003.18 SEE SECTION R1001.11, EXCEPTION 4 3' AT ROOFLINE AND 2' AT 10'
ANCHORAGE STRAP NUMBER EMBEDMENT INTO CHIMNEY FASTEN TO BOLTS	S	3/16" x 1" TWO 12" HOOKED AROUND OUTER BAR WITH 6" EXTENSION 4 JOISTS THREE 1/2" DIAMETER
FOOTING THICKNESS WIDTH	T	12" MIN 12" EACH SIDE OF FIREPLACE WALL

NOTE: THIS TABLE PROVIDES A SUMMARY OF MAJOR REQUIREMENTS FOR THE CONSTRUCTION OF MASONARY CHIMNEYS AND FIREPLACES. LETTER REFERENCES ARE TO FIGURE R1001.1(NORTH CAROLINA STATE 2018 RESIDENTIAL BUILDING CODE), WHICH SHOWS EXAMPLES OF TYPICAL CONSTRUCTION. THIS TABLE DOES NOT COVER ALL REQUIREMENTS, NOR DOES IT COVER ALL ASPECTS OF THE INDICATED REQUIREMENTS. FOR THE ACTUAL MANDATORY REQUIREMENTS OF THE CODE, SEE THE INDICATED SECTION OF TEXT.

1) THE LETTERS REFER TO FIGURE R1001.1 OF THE NORTH CAROLINA STATE 2018 RESIDENTIAL BUILDING CODE
2) NOT REQUIRED IN SEISMIC DESIGN CATEGORY A, B, or C

R905.2 references TABLE R905.1.1(2) which states that "For roof slopes from two units vertical in 12 units horizontal (2:12), up to four units vertical in 12 units horizontal (4:12), underlayment shall be two layers applied in the following manner: apply a 19-inch strip of underlayment felt parallel to and starting at the eves. Starting at the eave, apply 36-inch-wide sheets of underlayment, overlapping successive sheets 19 inches. Distortions in the underlayment shall not interfere with the ability of the shingles to seal.

R301.5 is a table titled "MINIMUM UNIFORMLY DISTRIBUTED LIVE LOADS (in pounds per square foot)". It states that the LIVE LOAD for Stairs is 40, with a note that states "Individual stair treads shall be designed for the uniformly distributed live load or a 300-pound concentrated load acting over an area of 4 square inches, whichever produces the greatest stress".

ALL DOORS LEADING TO DWELLING FROM THE GARAGE TO BE 20-MINUTE FIRE RATED DOOR
PER NCRC R302.5.1

GARAGE TO BE SEPARATED FROM HABITABLE ROOMS ABOVE BY NOT LESS THAN 5/8-INCH TYPE X GYPSUM BOARD OR EQUIVALENT
PER NCRC SECTION R302.6N

WINDOW FALL PROTECTION, PER NCRC SECTION R312.2

CARBON MONOXIDE ALARMS ARE REQUIRED TO BE INSTALLED OUTSIDE ***ALL*** SLEEPING AREAS
PER NCRC SECTION R315

EMERGENCY ESCAPE AND RESCUE OPENINGS AS
PER NCRC SECTION R310

PENETRATION SEALING:
SEAL ***ALL*** PENETRATIONS IN FIRE-RATED WALLS, CEILINGS, OR FLOORS WITH UL-RATED FIRESTOP MATERIALS.

UL FIRESTOP SYSTEMS:
W-L-1001: FOR SMALL PIPE PENETRATIONS IN WOOD-STUD WALLS.
C-AJ-1202: FOR PENETRATIONS THROUGH CEILINGS AND FLOOR ASSEMBLIES.

EXTERIOR WALL CAVITY INSULATION SHALL BE ENCLOSED ON ALL SIDES WITH RIGID OR AN AIR BARRIER MATERIAL- BEHIND TUBS, SHOWERS, STAIRS, FIRE PLACES AND KNEE WALLS.
PER NCRC SECTION N1102.2.12

CRAWLSPACE ACCESS NEEDS TO BE A MINIMUM OPENING MEASURING 18 INCHES BY 24 INCHES
PER NCRC SECTION R408.8

REVIEWER'S SEAL

Project #:
25-185
Date:
6-6-25
Scale:
NTS

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GENERAL NOTES

Sheet Number
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