



SUMWARD STEEL BUILDINGS

6800 E. Hampden Ave • Denver, CO 80224 • 800-964-8335 • Fax 701-252-1988

PERMIT DRAWINGS

NOTE: THESE PLANS AND SPECIFICATIONS FOR CONSTRUCTION OF THIS BUILDING ARE NOT TO BE USED FOR ERECTION PURPOSES. THESE PLANS ARE FOR BUILDING DEPARTMENT PERMIT PURPOSES ONLY. THE ANCHOR BOLT PLAN PORTION IS FOR CONSTRUCTION.

- 1) Manufacturer's standard specifications apply unless stipulated in the contract documents, verification of your purchase order and shown within the approval drawings submitted to you from the manufacturer.
- 2) Manufacturer's design, fabrication quality criteria, standard practices, standard materials including primer coatings, and panel finish shall govern the specifications with any other interpretations to the contrary not withstanding. It is understood by all parties that the Project Consultant/End Use Final Owner is responsible for clarification of inclusions or exclusions from specifications and/or architectural plans.
- 3) In case of discrepancies between manufacturer's plans and other trades including but not limited to foundation and architectural plans; manufacturers' plans will govern. (Section 3. AISC Codes of Standard Practices March 2000.)
- 4) Approval of manufacturers' drawings and calculations constitutes acceptance of manufacturer's interpretations, assumptions of design loads and contract documents. (Section 4. AISC Code of standard Practices March 2000.)
- 5) The Project Consultant/End Use Final Owner is responsible for overall project coordination. This includes all interface, compatibility and design considerations covering any materials not supplied or manufactured by Sunward Corporation. This is the ultimate responsibility of the Project Consultant /End Use Final Owner.
- 6) These drawings are subject to the terms of the manufacturer's Engineer's Letter of Certification. Adequacy of the design loads for the area is the responsibility of the Project Consultant/Final Owner. Drawings are sealed only to certify that the structural components to be furnished meet the design loads requested and listed in the Engineer Letter of Certification.
- 7) It is recommended that a qualified Registered Professional Engineer design the foundation. The manufacturer is not responsible for concrete design. See section A3 - Foundations, Metal Building Manufacturers Associations Metal Building Systems Manual.
- 8) Notice to the erectors: Normal erection procedures include corrections, which involve time to determine cause, downtime, use of rental or owned equipment, travel and communication with the manufacturer's service department. Normal erection procedures also include moderate amounts of reaming, field welding (if required by design), cutting, shimming, touch-up painting. These items are not subject to claim for back charges.
- 9) Any change or correction not reported prior to the work being performed will not be eligible for reimbursement. At no time shall an erector alter the structural design without prior approval from the manufacturer's design engineer and service department. Acceptance of correction procedures will not imply acceptance of a back charge unless such changes are accepted in writing; including pay rates, proposed man-hours. Downtime, equipment costs, supervision, overhead, profit, liquidated damages and consequential costs expense are not subject to claim.
- 10) The terms of the claim shall be in accordance with Section IV Common Industry Practices, Section 6. Erection and other fieldwork. Specifically, Section 6.10. "Correction of errors and repairs" of the Metal Building Manufacturers Associations Metal Building Systems

Manual. For a claim form contact the customer services department of the manufacturer @ (701) 252-7390.

- 11) Claims must include written documentation, photographic documentation that shows detail, (part numbers, work performed) and any other pertinent information of completed work.
- 12) **Warning:** In no case should galvalume zinc steel panels be used in conjunction with lead or copper. Both have harmful corrosive effects on the galvalume zinc panels. Even run off from copper should be avoided.
- 13) **Safety:** It is strongly recommended that a safe working job site is a priority to the workforce. **Warnings:** Heights can be dangerous and all safety equipment that is applicable should be used. The manufacturer is not responsible for the work site safety or erection and has not investigated or recommended the erectors for its products. As such, the manufacturer is held harmless for erection quality, accidents, safety and possible OSHA violations. Find out more about OSHA regulations by visiting www.osha.gov.
- 14) A325 Bolt tightening requirement. It is the responsibility of the erector to insure proper bolt tightness. See Bolt Tightening method in Erection Manual and general notes of the drawing.
- 15) Protection of primer. The manufacturer's standard primer applied to the structural components is not intended for exterior use or extended exposure to the elements. To protect the primer (structural components "Red Iron") should be covered so they are not exposed to water prior to erection. Water can cause the components to rust. It is recommended that the primed structural components be protected especially if they are not going to be erected immediately. There is no warranty on primer paint against flaking, peeling, fading or shipping abrasions. Touch-up paint will be provided for primer.
- 16) Insurance: It is recommended by the Manufacturer, and Project Consultant/ Final Owner agrees to maintain adequate coverage to insure against risk of loss from the time risk of loss passes, during unloading, delivery, and storage, through construction and after construction. Project Consultant/Final Owner understands that buildings are vulnerable to wind, water damage, and vandalism, before and during construction, and Project Consultant/Final Owner agrees to indemnify and hold Manufacturer harmless for any such damage or costs arising from same.
- 17) All claims for shortages or goods damaged during shipping must be noted on the Bill of Lading to qualify for repair, replacement or reimbursement.
- 18) Inventory must be performed at time of delivery. If inventory is refused then it shall waive project consultant's right for future claims.
- 19) Dummage shall remain the property of the trucking company.
- 20) Storage of materials. All materials, especially non-painted galvalume or galvanized panels must be protected. If this material is allowed to get wet or moisture is permitted to form (condensation) between the materials serious deterioration of the finish will occur. For your protection, if these

materials get wet, separate and dry all materials immediately. Metal shavings left on the panel finish will also cause panel finish deterioration.

- 21) The manufacturer's limited warranty does not provide for weather tightness. It is the ultimate responsibility of the erector to install the building materials in a manner that provides weather tightness. If the contractor / final owner / erector feels a condition exists that does not allow for weather tightness then additional materials or sealant can be requested. The proper amount of downspouts is the final owner's responsibility. All closures shall be installed. Especially at low pitch roof valleys, eave overhangs, valley gutters, sealant should be installed top and bottom of the closure. In some cases, metal closures should be considered at optional pricing. To help prevent water backup under the ends of roof panels, gutters, valleys and valley gutter should be kept clear of ice and snow, by installation of heated devices and/or snow jacks that prevent sliding snow, which are not included in the purchase to the manufacturer.

- 22) The project consultant/final owner is the entity, whether an individual or a company, which orders and purchases the appropriate building materials from the manufacturer for resale. The contractor or erector is the entity hired to construct or supervise construction of metal building materials, and any other construction facets of a building project as determined by the contract between the erector or contractor and the party retaining it. Neither the project consultant/final owner, erector, nor contractor are agents, representatives or employees of the manufacturer. The project consultant/final owner, erector or contractor maintain independent businesses over which the manufacturer has no control.

This is the case even when a final owner has contacted the manufacturer or the service center directly and obtained the names of one or more erectors in an area from whom he may purchase the manufacturer's products. The provision of such names is not a recommendation or guarantee of the skill, ability or good business methods of any given erector.

Important notice to bidder for installation of building components

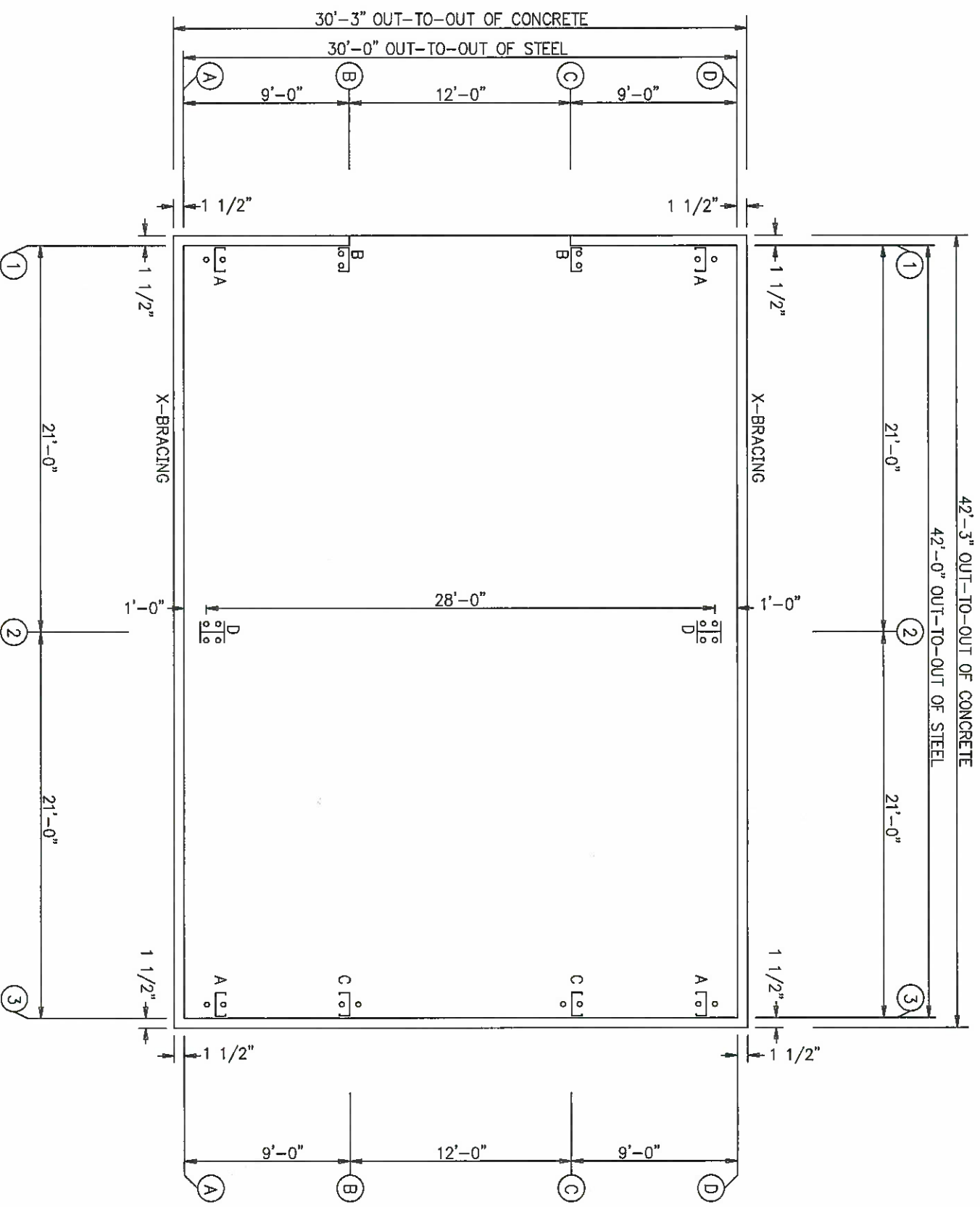
Please be advised when providing a quotation for erection of the material, all accessories to be supplied may not be shown on the permit, approval or erection drawings. Please contact the project consultant/final owner for a complete accessory/option list and/or obtain and compare the manufacturer's verification of the purchase order with the drawings. This includes framed openings and walk-in doors, which in many cases are field located by the erector.

PROJECT CONSULTANT/FINAL OWNER RESPONSIBILITIES

05/09



SUNWARD CORPORATION
700 13th Ave. SE
P.O. Box 110
Jamestown, ND 58402
(701) 252-7390



ANCHOR BOLT SETTING PLAN
NOTE: ALL BASE PLATES AT ELEVATION 100'-0" (UNLESS NOTED)

SHEETING	GA.	TYPE	COLOR	TRIM	COLOR	TRIM	COLOR
ROOF	26	HI-RIB	GA = Galvalume Plus	EAVE	CH = Charcoal Gray	WAINSCOT TRANSITION	
WALL	26	HI-RIB	MG = Ash Gray	GABLE	CH = Charcoal Gray	WAINSCOT CORNER	
WAINSCOT				CORNER	CH = Charcoal Gray	RIDGE CAP/TRIM	GA = Galvalume Plus
EAVE SOFFIT				FRAMED OPENING	CH = Charcoal Gray	SOFFIT - EAVE	
GABLE SOFFIT				BASE	CH = Charcoal Gray	SOFFIT - GABLE	
LINER				GUTTER			
PARTITION				DOWNSPOUT			

MANUFACTURER (ND FACILITY) IS AN APPROVED FABRICATOR WITH THE FOLLOWING CERTIFICATIONS.
 IAS AC472 # MB-216 & MB-104
 CSA A660 / CSA W47.1 DIVISION 2
 CLARK COUNTY, NV / #00205, SAN BERNARDINO COUNTY, CA / #285
 CITY OF HOUSTON / #729
 CITY OF LOS ANGELES TYPE 1 FABRICATOR / LWS / HSS / #1015
 CITY OF PHOENIX / #C17-2022

MANUFACTURER (SC FACILITY) IS AN APPROVED FABRICATOR WITH THE FOLLOWING CERTIFICATIONS.
 IAS AC472 # MB-216 & MB-105
 CERTIFICATE OF COMPETENCY: MIAMI-DADE COUNTY / #22-0519.01
 CITY OF HOUSTON / #729A
 CITY OF PHOENIX / #C16-2022

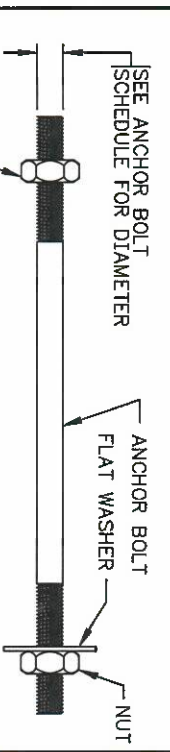
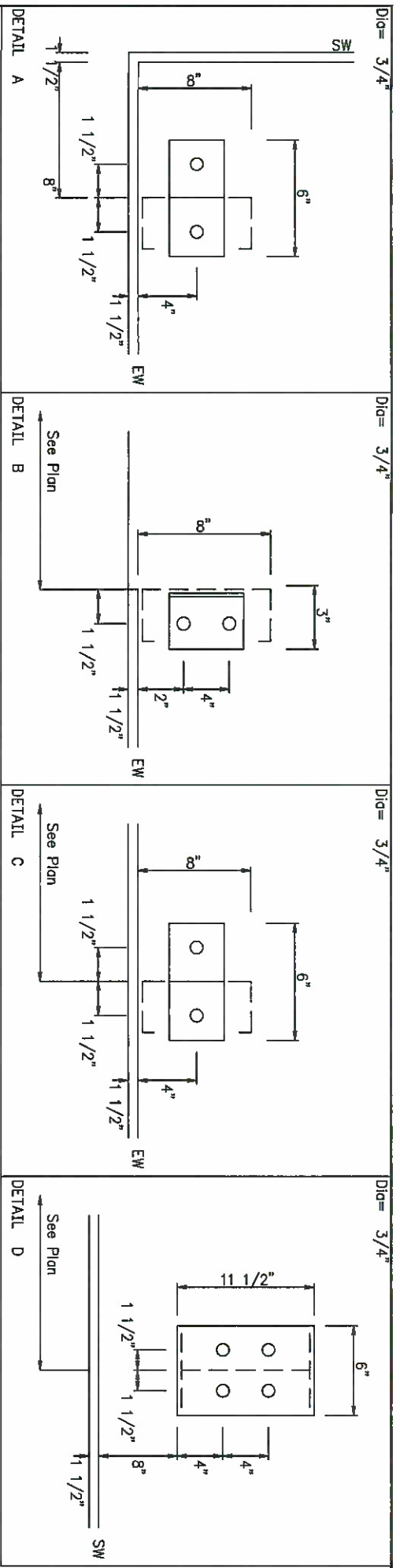
VERIFY WIDTH AND LENGTH DIMENSIONS CHECK YOUR ANCHOR BOLT SETTING PLAN TO MAKE CERTAIN THAT ALL THE DIMENSIONS SHOWN AGREE WITH THE DIMENSIONS ON YOUR SALES ORDER. REFER TO STEEL LINES (OUTSIDE FACE OF GIRTS/FRAMING) OF THE BUILDING.

NORTH CAROLINA
PROFESSIONAL
SEAL
ENGINEER
SALEM G. SALEM
025679
1/19/23

Sunward Steel Buildings

BUYER: Henry Williams
 CUST.: Henry Williams
 SITE: Angler, NC
 DESCR.: See Elevations
 SCALE: NONE
 JOB#: 108554

DRAWN BY: MMM
 1/9/23
 CHECK BY: MK
 1/11/23
 DES. ENG.:
 SHEET NO. A1 OF 4



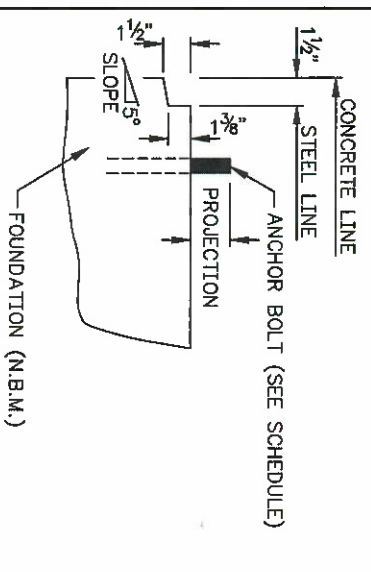
ANCHOR BOLTS, BOLT LENGTHS, NUTS, AND WASHERS ARE NOT BY THE METAL BUILDING MANUFACTURER; SEE GENERAL NOTES.

ANCHOR BOLT SCHEDULE

Qty	Locate	Diag (in)	Type	Proj (in)
16	Endwall	3/4"	Gr36	2.00
8	Frame	3/4"	Gr36	2.00

SHEETING NOTCH & BOLT PROJECTION

- OMIT NOTCH AT DOOR OPENING(S) AND AS SHOWN ON ANCHOR BOLT SETTING PLAN.

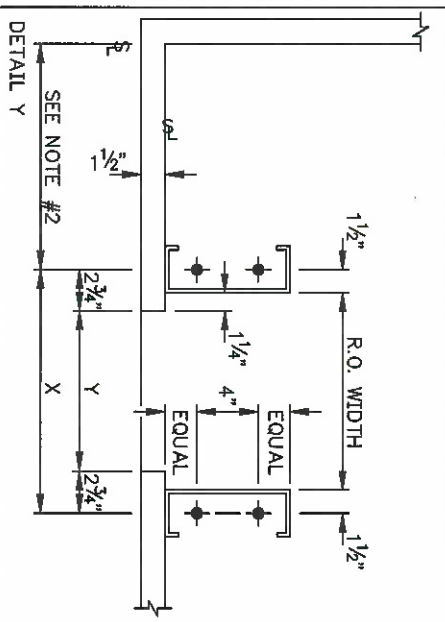


DETAIL X

FIELD LOCATED WALKDOOR DETAIL

DOOR SIZE	3070	4070	6070
R.O. WIDTH	3'-4"	4'-4"	6'-4"
X	3'-7"	4'-7"	6'-7"
Y	3'-1 1/2"	4'-1 1/2"	6'-1 1/2"

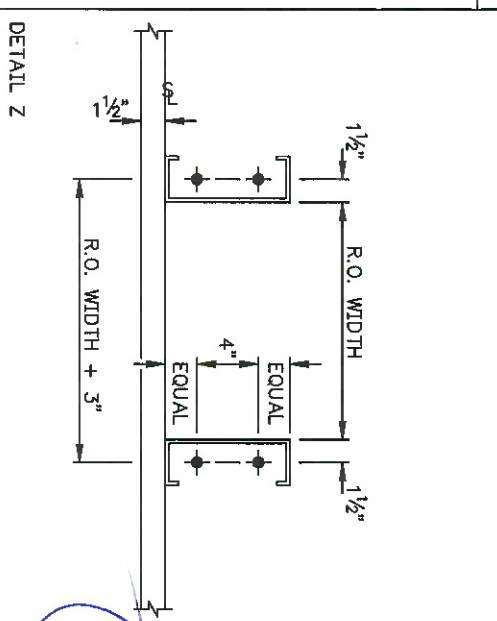
- SEE NOTE #3 FOR ANCHOR BOLT REQUIREMENTS.



DETAIL Y

FIELD LOCATED WINDOW DETAIL

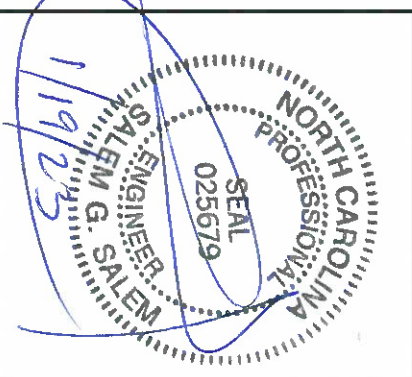
- USE THIS DETAIL FOR OTHER FRAMED OPENINGS THAT ARE SET ON CONCRETE.
- SEE NOTE #3 FOR ANCHOR BOLT REQUIREMENTS.



DETAIL Z

WALKDOOR AND WINDOW FRAMED OPENING NOTES

- SOME DETAILS SHOWN MAY NOT APPLY TO YOUR BUILDING. REFER TO YOUR SALES ORDER FOR THE OPTIONS WHICH ARE INCLUDED.
- FIELD LOCATE WALKDOOR IN ONE FOOT INCREMENTS STARTING AT STEEL LINE. EXAMPLE: 1'-8 1/2", 2'-8 1/2", 3'-8 1/2", ETC.
- USE (4) 1/2" ϕ EXPANDED ANCHORS OR EQUAL PER OPENING. ANCHORS ARE TO BE DESIGNED AND SUPPLIED BY OTHERS.



Sunward Steel Buildings

BUYER: Henry Williams
CUST.: Henry Williams
SITE: Angier, NC
DESCR.: See Elevations
SCALE: NONE
JOB#: 108554

DRAWN BY: MMM
1/9/23
CHECK BY: MK
1/11/23
DES. ENG.:
SHEET NO. A2 OF 4

NOTES FOR REACTIONS

- All loading conditions are examined and only maximum/minimum H or V and the corresponding H or V are reported.
- Positive reactions are as shown in the sketch. Foundation loads are in opposite directions.
- Bracing reactions are in the plane of the brace with the H pointing away from the braced bay. The vertical reaction is downward.
- Building reactions are based on the following building data:
 - Width (ft) = 30
 - Length (ft) = 42
 - Eave Height (ft) = 12 / 12
 - Roof Slope (rise/12) = 1.0:12 / 1.0:12

DESIGN CODES/LOADS:
 Building Code = IBC 15
 Local Code (if applicable) = II - Normal
 Risk Category = 2,200
 Dead Load (psf) = 1
 Collateral Load (psf) = 20.00
 Live Load (psf) = No
 Live Load Reduced? = No

SNOW LOADS:
 Roof Snow Load (psf), P_f = 30
 Ground Snow Load (psf), P_g = 42.86
 Importance - Snow = 1.00
 Snow Exposure, C_e = 1.00
 Thermal Factor, C_t = 1.00
 Sloped Factor, C_s = 1.00

WIND LOADS:
 Wind Speed, Vultimate (mph) = 140
 Wind Speed, V_{50d} (mph) = 106
 Comp/Cladding, Pressure (psf) = 39.2
 Comp/Cladding, Suction (psf) = -42.4
 Importance - Wind = 1.00
 Wind Exposure = Closed
 Internal Pressure Coeff. = 0.18 / -0.18

SEISMIC INFORMATION:
 Seismic, S_s = 0.171
 Seismic, S₁ = 0.082
 Seismic, S_{d1} = 0.182
 Importance - Seismic = 1.00
 Seismic Response Coeff. C_s = 0.061
 Response Modification Coeff. R = 3
 Longitudinal Base Shear (kips) = 0.51
 Transverse Base Shear (kips) = 0.56
 Site Class = D
 Analysis Procedure = B
 Seismic Design Category = B
 Equivalent Lateral Force = B
 Seismic Force Resisting Systems: (OMF)
 Steel Ordinary Moment Resisting Frame (OCMF)
 Steel Ordinary Concentrically Braced Frame (OCBF)

5. Loading conditions are:

- Dead+Collateral+Snow
- 0.6Dead+0.6Wind_Left1
- 0.6Dead+0.6Wind_Right1
- 0.6Dead+0.6Wind_Left2
- 0.6Dead+0.6Wind_Right2
- 0.6Dead+0.6Wind_Long1L
- 0.6Dead+0.6Wind_Long1R
- 0.6Dead+0.6Wind_Long2L
- 0.6Dead+0.6Wind_Long2R
- 0.6Dead+0.6Wind_Long1L+0.6Wind_Long1R
- 0.6Dead+0.6Wind_Long2L+0.6Wind_Long2R
- 0.6Dead+0.6Wind_Left1+0.6Wind_Right1
- 0.6Dead+0.6Wind_Left2+0.6Wind_Right2
- 0.6Dead+0.6Wind_Left1+0.6Wind_Right1+0.6Wind_Pressure
- 0.6Dead+0.6Wind_Left1+0.6Wind_Right1+0.6Wind_Suction
- 0.6Dead+0.6Wind_Left2+0.6Wind_Right2+0.6Wind_Pressure
- 0.6Dead+0.6Wind_Left2+0.6Wind_Right2+0.6Wind_Suction
- 0.6Dead+0.6Wind_Left1+0.6Wind_Right1+0.6Wind_Long1L+0.6Wind_Long1R
- 0.6Dead+0.6Wind_Left2+0.6Wind_Right2+0.6Wind_Long2L+0.6Wind_Long2R
- 0.6Dead+0.6Wind_Left1+0.6Wind_Right1+0.6Wind_Long1L+0.6Wind_Long1R+0.6Wind_Long2L+0.6Wind_Long2R
- 0.6Dead+0.6Wind_Left1+0.6Wind_Right1+0.6Wind_Long1L+0.6Wind_Long1R+0.6Wind_Long2L+0.6Wind_Long2R+0.6Wind_Pressure
- 0.6Dead+0.6Wind_Left1+0.6Wind_Right1+0.6Wind_Long1L+0.6Wind_Long1R+0.6Wind_Long2L+0.6Wind_Long2R+0.6Wind_Suction

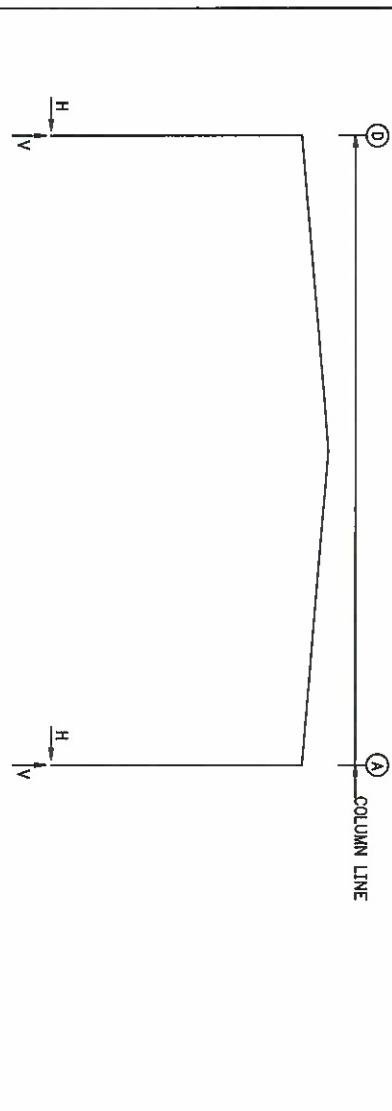
ENDWALL COLUMN:

Frm Line	Col Line	Dead Load	Wind Long1	Wind Long2	Column Reactions (k)		MAXIMUM REACTIONS		EJUNB-SL-L		EJUNB-SL-R	
					Live	Seis	MIN-SNOW	MAX	Horz	Vert	Horz	Vert
1	A	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	B	0.4	0.1	0.1	0.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
1	C	0.4	0.1	0.1	2.7	4.0	0.0	0.0	0.0	0.0	0.0	0.0
1	D	0.1	0.1	0.0	0.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
3	A	-0.7	-1.4	-0.7	0.0	0.0	0.0	0.0	-0.3	-0.1	0.0	0.0
3	B	-4.5	-3.1	-3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	C	-3.1	-4.6	-4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	D	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

ENDWALL COLUMN:

Frm Line	Col Line	Dead Load	Wind Long1	Wind Long2	Column Reactions (k)		MAXIMUM REACTIONS		EJUNB-SL-L		EJUNB-SL-R	
					Live	Seis	MIN-SNOW	MAX	Horz	Vert	Horz	Vert
1	D	6	0.0	0.0	-0.8	10	-1.6	-1.5	0.0	0.0	0.0	0.0
1	C	11	0.0	0.0	1.7	13	-1.1	-2.7	0.0	0.0	0.0	0.0
1	B	12	0.0	0.0	-2.7	12	1.2	-2.7	0.0	0.0	0.0	0.0
1	A	14	0.0	0.0	5.2	16	-1.1	-2.7	0.0	0.0	0.0	0.0
3	D	15	0.0	0.0	5.2	15	1.2	-2.7	0.0	0.0	0.0	0.0
3	C	21	0.0	0.0	-0.8	18	-1.6	-1.5	0.0	0.0	0.0	0.0
3	B	19	0.0	0.0	1.7	6	0.0	-0.8	0.0	0.0	0.0	0.0
3	A	20	0.0	0.0	-0.8	14	-1.1	-2.7	0.0	0.0	0.0	0.0
3	B	12	0.0	0.0	1.4	13	-1.1	-2.7	0.0	0.0	0.0	0.0
3	C	20	0.0	0.0	-2.7	12	1.2	-2.7	0.0	0.0	0.0	0.0
3	D	15	0.0	0.0	5.2	16	-1.1	-2.7	0.0	0.0	0.0	0.0
3	C	21	0.0	0.0	-0.8	15	1.2	-2.7	0.0	0.0	0.0	0.0
3	D	21	0.0	0.0	1.4	7	0.0	-0.8	0.0	0.0	0.0	0.0

FRAME LINES:



RIGID FRAME:

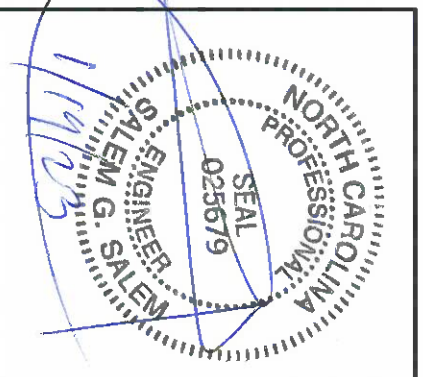
Frm Line	Col Line	Load Id	Column Reactions (k)		MAXIMUM REACTIONS		V	
			Horz	Vert	MIN	MAX	Horz	Vert
2	D	1	4.8	13.4	4	-3.8	-3.9	
2	A	8	3.9	14.3	2	-3.8	-7.0	
2	A	5	3.8	-3.9	1	-4.8	13.4	
2	A	9	-3.9	14.3	3	3.8	-7.0	

RIGID FRAME:

Frame Line	Column	Dead		Collateral		Live		Snow		Wind Left1		Wind Right1	
		Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert	Horz	Vert
2	D	0.4	1.2	0.1	0.4	2.8	7.9	4.2	11.8	-6.7	-12.9	6.7	-12.9
2	A	-0.4	1.2	-0.1	0.4	-2.8	7.9	-4.2	11.8	6.7	-12.9	-6.7	12.9
2	A	-6.8	-7.8	0.7	-2.2	-0.1	-10.4	-0.5	-10.4	-0.1	0.1	0.1	-0.1
2	D	-0.7	-2.2	6.8	-7.8	0.5	-10.4	0.1	-12.5	-0.1	0.1	0.1	-0.1
2	A	0.0	-0.1	-2.8	7.9	3.4	12.7	-3.4	6.3	3.4	12.7	-3.4	6.3
2	D	0.0	-0.1	2.8	-7.9	-3.4	-12.7	3.4	-6.3	-3.4	-12.7	3.4	6.3

BUILDING BRACING REACTIONS

Well Line	Col Line	± Reactions (k)		Panel Shear (lb/ft)			
		Wind	Seismic	Wind	Seis		
1	A	1.2	2.6	1.3	0.3	99	23
3	D	2.1	2.6	1.3	0.3	60	14



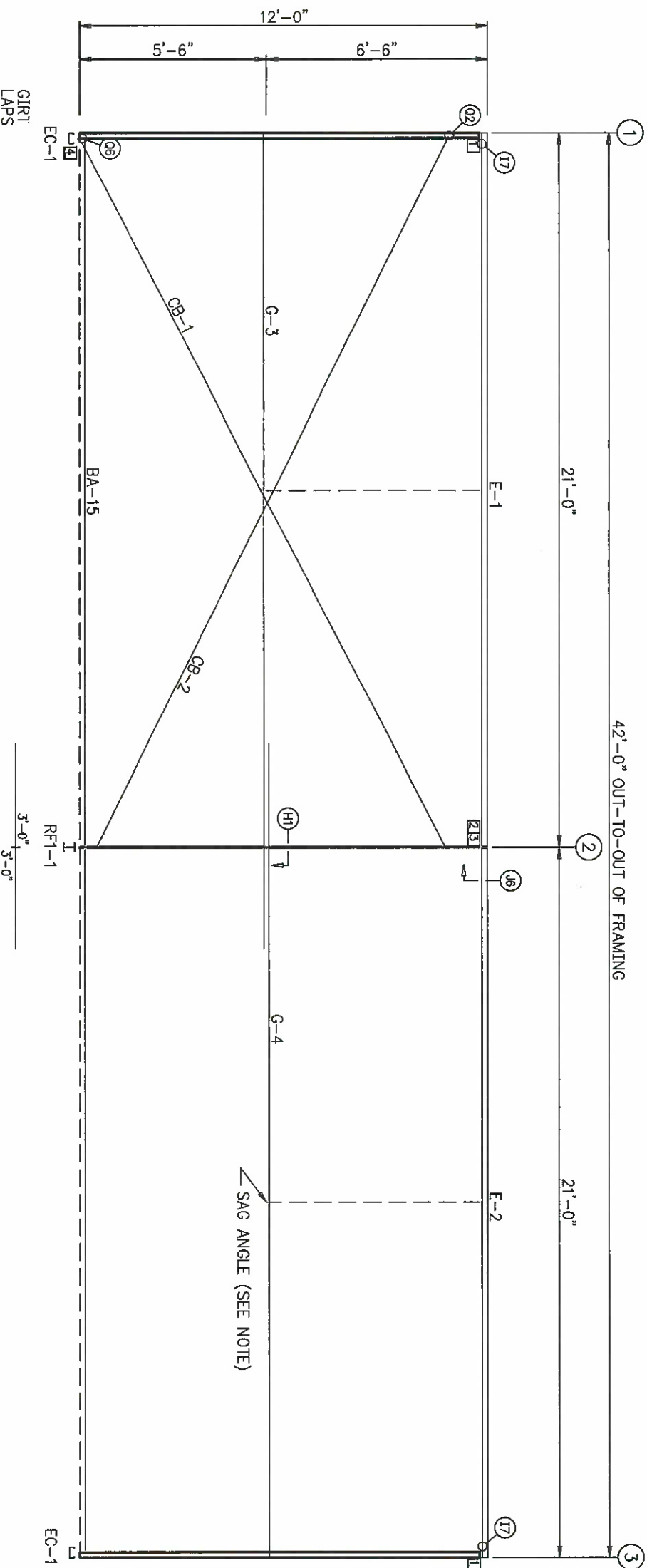
Sunward Steel Buildings

BUYER: Henry Williams
 CUST.: Henry Williams
 SITE: Angier, NC
 DESCOR.: See Elevations
 SCALE: NONE
 JOB#: 108554

DRAWN BY: MM
 1/9/23
 CHECK BY: MK
 1/11/23
 DES. ENG.:
 SHEET NO. A4 OF 4

MEMBER TABLE	
FRAME LINE A	PART
E-1	10C16
E-2	10C16
G-3	8216
G-4	8216
CB-1	5/16" CABLE
CB-2	5/16" CABLE

CONNECTION PLATES	
FRAME LINE A	PART
1	FC065
2	FC060
3	ESA-1
4	FC015

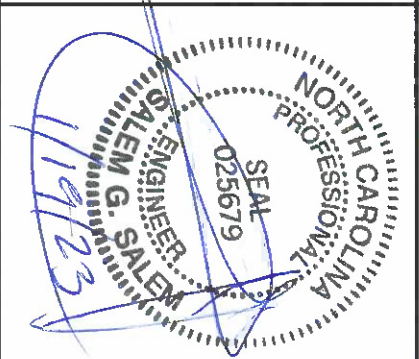


ELEVATION AT: FRAME LINE A

LEGEND	
A-	SPECIAL ANGLE
AB-	ANGLE BRACE
BA-	BASE/SHEETING ANGLE
BCH-	BASE CHANNEL
BM-	BEAM
BR-	BRACKET
BS-	BOSS
CB-	CROSS BRACE
CL-	SPECIAL CLIP
DH-	DOOR HEADER
DJ-	DOOR JAMB
E-	EAVE STRUT
EE-	EAVE EXTENSION
EB-	EXTENSION BEAM
EC-	ENDWALL COLUMN
ER-	ENDWALL RAFTER
FB-	FLANGE BRACE
FC-	FRAMING CLIP
G-	GIRT
H-	HEADER/SILL
J-	JAMB
MB-	MEZZANINE BEAM
MC-	MEZZANINE/MANSARD COLUMN
MJ-	MEZZANINE JOIST
P-	PURLIN
PC-	PIPE/PARAPET COLUMN
PS-	PURLIN/PIPE STRUT
R-	RAFTER
RB-	ROOF BEAM
RCH-	RAKE CHANNEL
RF-	RIGID FRAME
SA-	SHEETING ANGLE
SC-	SIDEWALL/STUB/SOLDER COLUMN
SJ-	SUBJAMB
SR-	SUPPORT RAFTER
T-	TRIM
TC-	TUBE COLUMN
TR-	SPECIAL TRIM
TS-	TUBE STRUT
WF-	WIND FRAME
ZA-	"Z" SHEETING ANGLE

OVERHEAD DOOR NOTE:
 BUILDING IS DESIGNED TO HAVE ADEQUATE HEADROOM FOR A STANDARD LIFT SECTIONAL DOOR. UNLESS NOTED OTHERWISE ON THE DRAWINGS, IF USING ANY OTHER TYPE OF DOOR (FOR EXAMPLE: HYDRAULIC, BI-FOLD, SLIDING, COIL/ROLL-UP, ETC.) THEN PLEASE PROVIDE REQUIRED HEADROOM TO ENSURE PROPER DOOR CLEARANCES.

SAG ANGLE NOTES:
 (MARK: PBA-10, SIZE: 1"x1"x16 GAGE)
 IF SHOWN, LOCATE PBA-10 AS INDICATED ON DRAWINGS. ONE ROW IS AT MIDPOINT OF BAY, TWO ROWS ARE AT 1/3 POINTS OF BAY, THREE ROWS ARE AT 1/4 POINTS OF BAY.



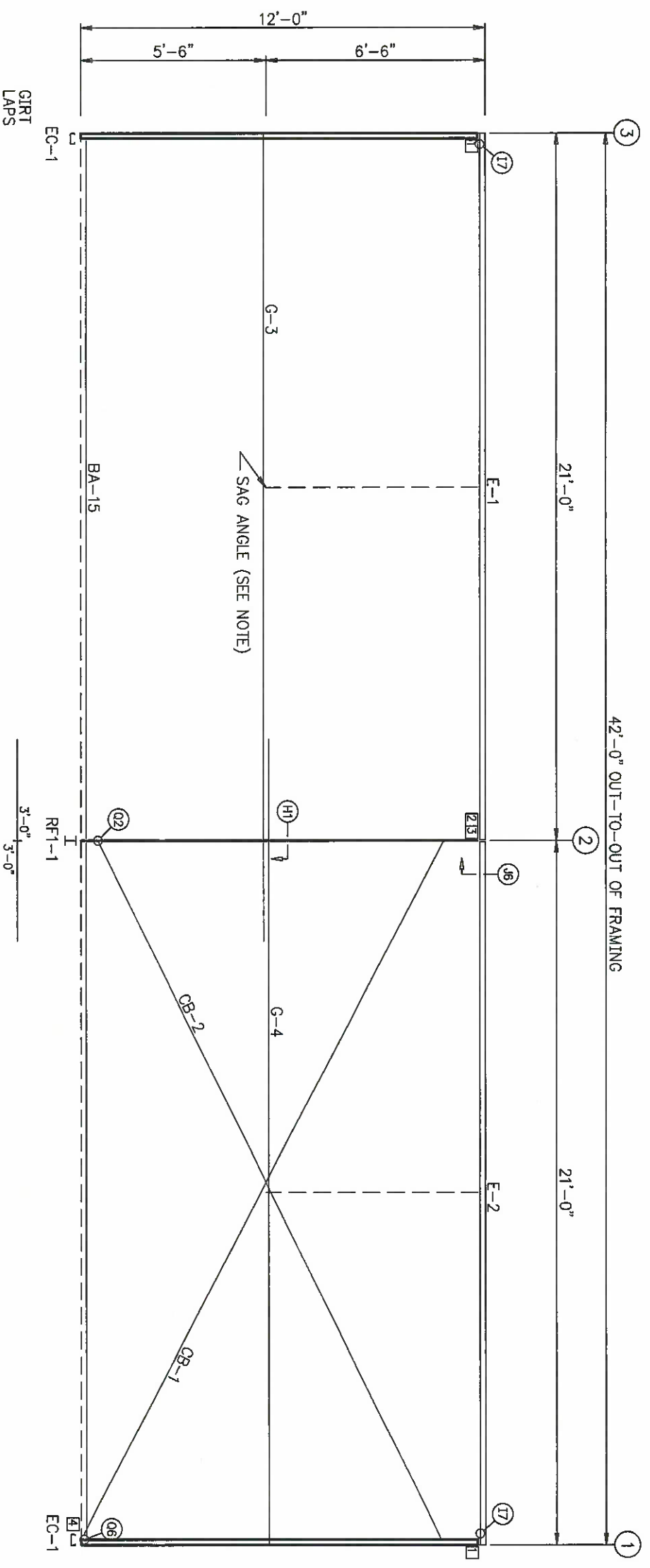
Sunward Steel Buildings

BUYER: Henry Williams
 CUST.: Henry Williams
 SITE: Angler, NC
 DESCR.: See Elevations
 SCALE: NONE
 JOB#: 108554

DRAWN BY: MMM
 1/9/23
 CHECK BY: _____
 DES. ENG.: _____
 SHEET NO. E1 OF 8

MEMBER TABLE	
FRAME LINE D	PART
E-1	10C16
E-2	10C16
G-3	8216
G-4	8216
CB-1	5/16" CABLE
CB-2	5/16" CABLE

CONNECTION PLATES	
FRAME LINE D	TID MARK/PART
1	FC065
2	FC060
3	ESA-1
4	FC015



ELEVATION AT: FRAME LINE D

OVERHEAD DOOR NOTE:
 BUILDING IS DESIGNED TO HAVE ADEQUATE HEADROOM FOR A STANDARD LIFT SECTIONAL DOOR, UNLESS NOTED OTHERWISE ON THE DRAWINGS. IF USING ANY OTHER TYPE OF DOOR (FOR EXAMPLE: HYDRAULIC, BI-FOLD, SLIDING COIL/ROLL-UP, ETC.) THEN PLEASE PROVIDE REQUIRED HEADROOM TO ENSURE PROPER DOOR CLEARANCES.

SAG ANGLE NOTES:
 (MARK: PBA-10, SIZE: 1"x1"x16 GAGE)
 IF SHOWN, LOCATE PBA-10 AS INDICATED ON DRAWINGS. ONE ROW IS AT MIDPOINT OF BAY, TWO ROWS ARE AT 1/3 POINTS OF BAY, THREE ROWS ARE AT 1/4 POINTS OF BAY.



Sunward Steel Buildings

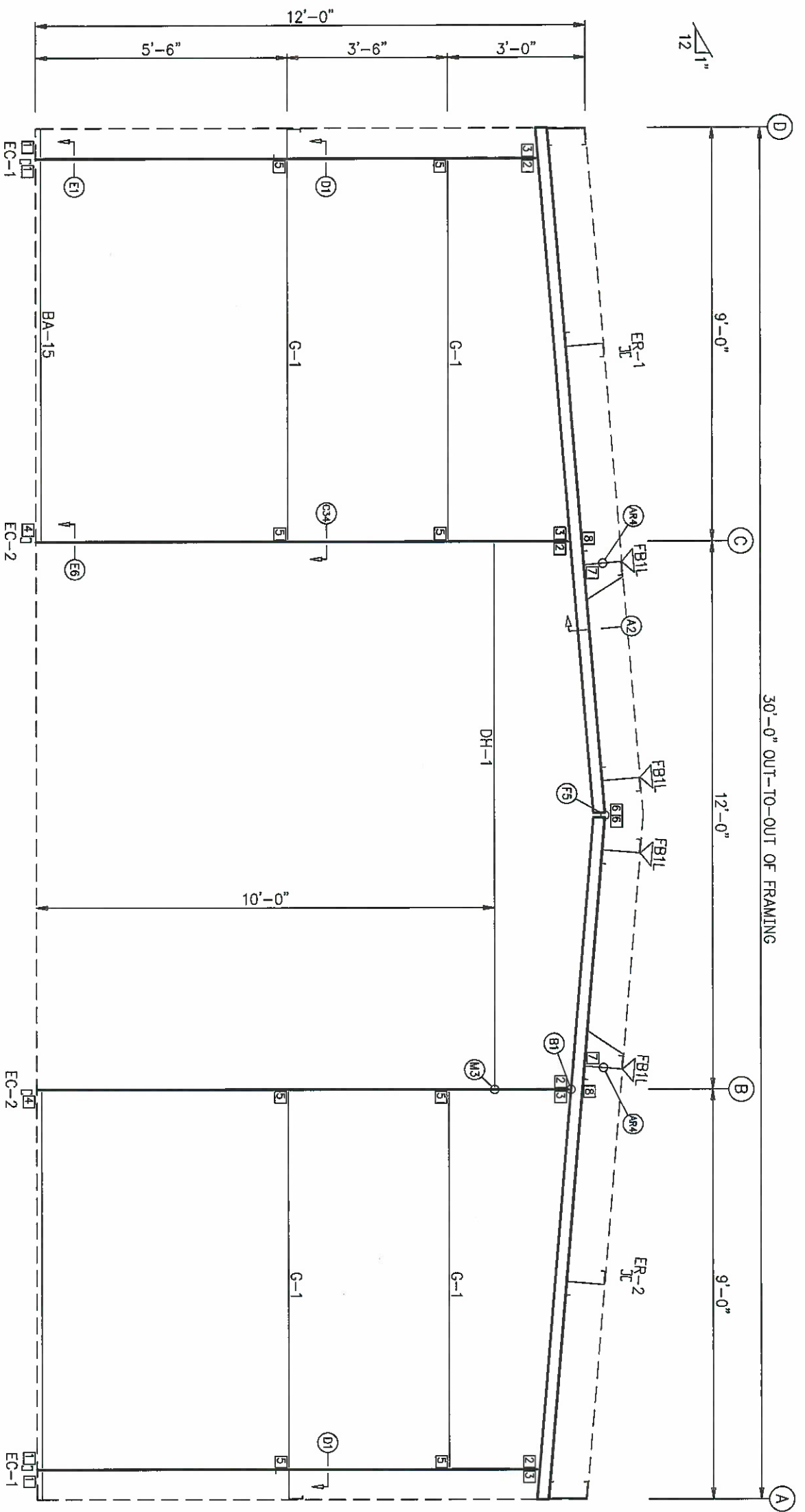
BUYER : Henry Williams
 CUST. : Henry Williams
 SITE : Angier, NC
 DESGR. : See Elevations
 SCALE : NONE
 JOB# : 108554

DRAWN BY: MMM
 1/9/23
 CHECK BY:
 DES. ENG. :
 SHEET NO. E2 OF 8

FLANGE BRACE TABLE	
LINE 1	
VTD PART	LENGTH
FBI1	14 3/4"

CONNECTION PARTS	
LINE 1	
DID PART	
1	FC013
2	FC126
3	FC125
4	FC014
5	FC033
6	FC136
7	FC008
8	FC130

MEMBER TABLE	
LINE 1	
PART	MATERIAL
EC-1	8C16
EC-2	8C16
ER-1	8D16
ER-2	8D16
DH-1	8C16
G-1	8Z16



ELEVATION AT: LINE 1

OVERHEAD DOOR NOTE:
 BUILDING IS DESIGNED TO HAVE ADEQUATE HEADROOM FOR A STANDARD LIFT SECTIONAL DOOR, UNLESS NOTED OTHERWISE ON THE DRAWINGS. IF USING ANY OTHER TYPE OF DOOR (FOR EXAMPLE: HYDRAULIC, BI-FOLD, SLIDING, COIL/ROLL-UP, ETC.) THEN PLEASE PROVIDE REQUIRED HEADROOM TO ENSURE PROPER DOOR CLEARANCES.

SAG ANGLE NOTES:
 (MARK: PBA-10, SIZE: 1"x1"x16 GAGE)
 IF SHOWN, LOCATE PBA-10 AS INDICATED ON DRAWINGS. ONE ROW IS AT MIDPOINT OF BAY, TWO ROWS ARE AT 1/3 POINTS OF BAY, THREE ROWS ARE AT 1/4 POINTS OF BAY.

BUILT-UP MEMBER ID, WHERE FORMAT IS: WAABCD
 SHAPE = I
 EXAMPLE: W 0 8 5 4 2

COLD FORMED MEMBER ID, WHERE FORMAT IS: ABCC
 SHAPE = C, L or I
 EXAMPLE: 8 C 1 6

- W = WELDED MEMBER TYPE
- AA = MEMBER DEPTH IN INCHES
- B = FLANGE WIDTH IN INCHES, 5=5", 6=6", 8=8", 0=10", 2=12"
- C = FLANGE THICKNESS IN 1/16 INCH UNITS, 3=3/16", 4=1/4", 6=3/8", 8=1/2", 0=5/8", 2=3/4"
- D = WEB THICKNESS IN 1/16 INCH UNITS, 2=.112", 3=.179", 4=.250", 5=.3125", 6=.375"



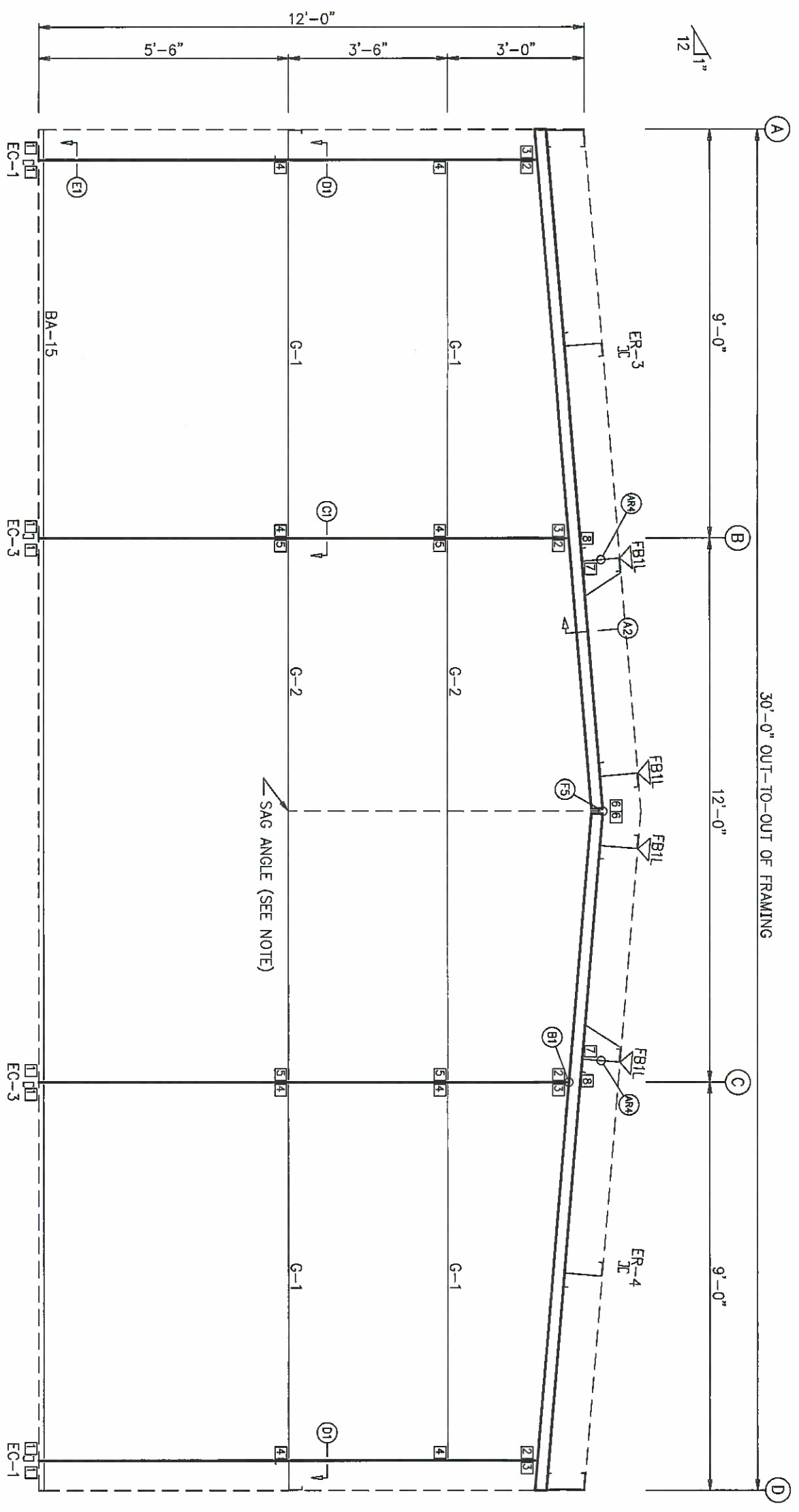
Sunward Steel Buildings

BUYER: Henry Williams
 CUST.: Henry Williams
 SITE: Angier, NC
 DESCOR: See Elevations
 SCALE: NONE
 JOB#: 108554

DRAWN BY: MMM
 1/9/23
 CHECK BY:
 DES. ENG.:
 SHEET NO. E3 OF 8

FLANGE BRACE TABLE	
LINE 3	LENGTH
VID PART	14 3/4"
FBIL	

30'-0" OUT-TO-OUT OF FRAMING



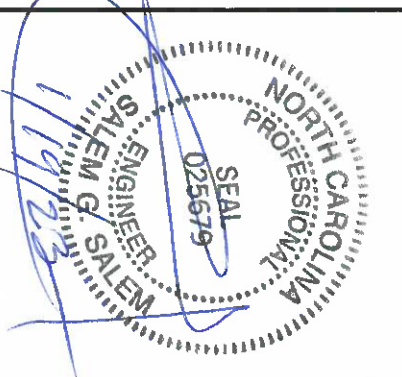
ELEVATION AT: LINE 3

CONNECTION PARTS	
ID	PART
1	FC013
2	FC126
3	FC125
4	FC033
5	FC030
6	FC136
7	FC008
8	FC130

MEMBER TABLE	
PART	MATERIAL
EC-1	8C16
EC-3	8C16
ER-3	8D16
ER-4	8D16
G-1	8Z16
G-2	8Z16

OVERHEAD DOOR NOTE:
 BUILDING IS DESIGNED TO HAVE ADEQUATE HEADROOM FOR A STANDARD LIFT SECTIONAL DOOR, UNLESS NOTED OTHERWISE ON THE DRAWINGS. IF USING ANY OTHER TYPE OF DOOR (FOR EXAMPLE: HYDRAULIC, BI-FOLD, SLIDING COIL/ROLL-UP, ETC.) THEN PLEASE PROVIDE REQUIRED HEADROOM TO ENSURE PROPER DOOR CLEARANCES.

SAG ANGLE NOTES:
 (MARK: PBA-10, SIZE: 1"x1"x16 GAGE)
 IF SHOWN, LOCATE PBA-10 AS INDICATED ON DRAWINGS. ONE ROW IS AT MIDPOINT OF BAY, TWO ROWS ARE AT 1/3 POINTS OF BAY, THREE ROWS ARE AT 1/4 POINTS OF BAY.



Sunward Steel Buildings

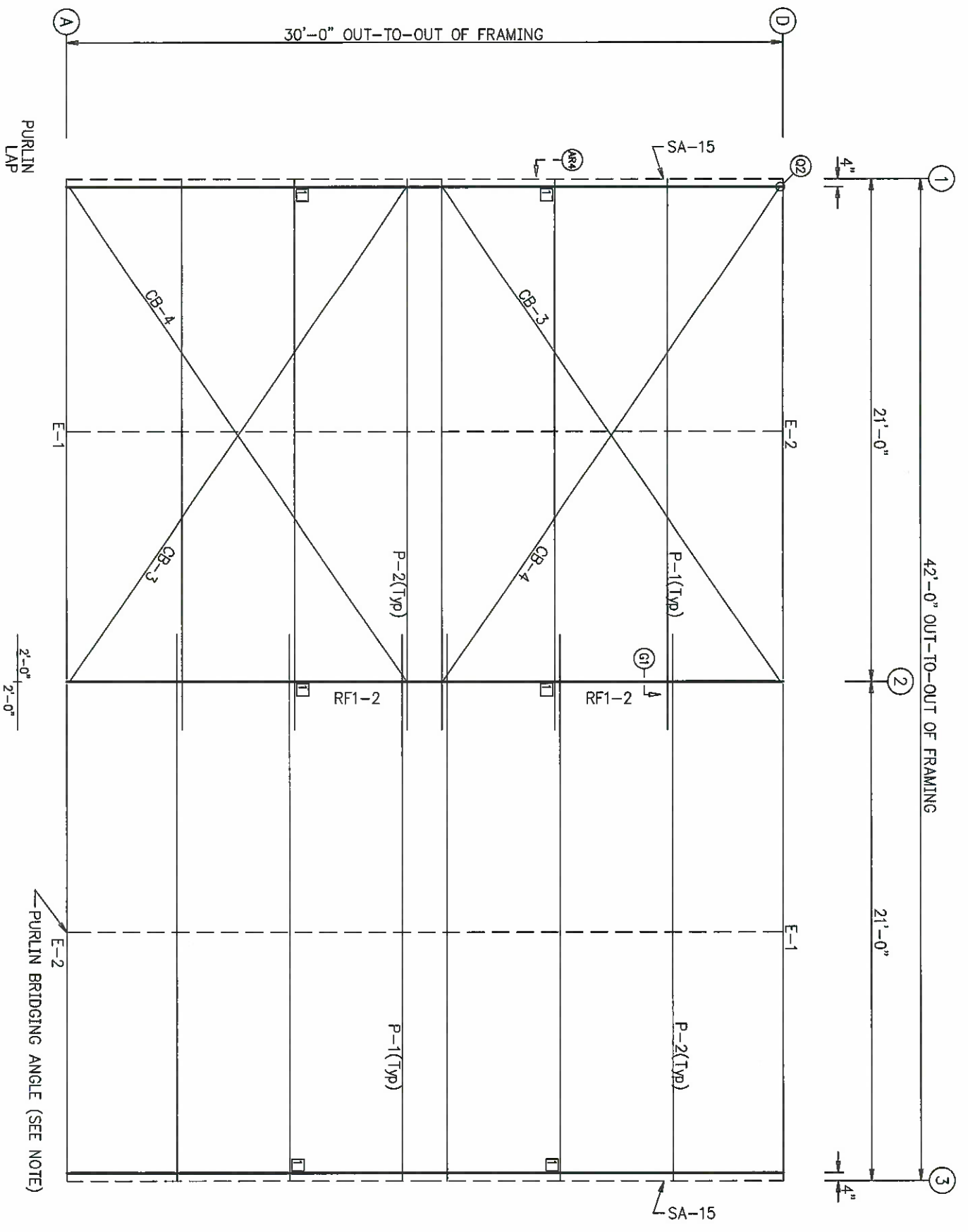
BUYER: Henry Williams
 CUST: Henry Williams
 SITE: Angier, NC
 DESCR: See Elevations
 SCALE: NONE
 JOB#: 108554

DRAWN BY: MMM
 1/9/23
 CHECK BY:
 DES. ENG.:
 SHEET NO. E4 OF 8

MEMBER TABLE	
MARK	PART
P-1	10Z14
P-2	10Z14
E-1	10C16
E-2	10C16
CB-3	5/16" CABLE
CB-4	5/16" CABLE

CONNECTION PLATES	
MARK	PART
RF1-2	10C16

ROOF PLAN	
ID	MARK/PART
1	FC008



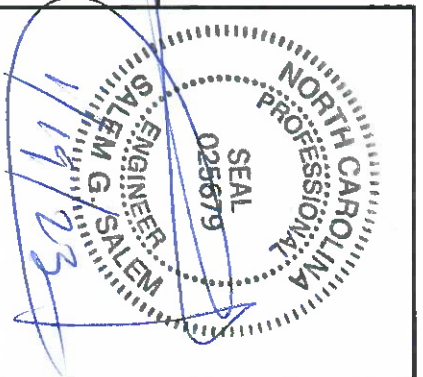
ROOF FRAMING PLAN

PURLIN CLIP NOTES:

- 1) PURLIN CLIP(S) AS REQUIRED, SEE ROOF FRAMING PLAN.
- 2) SEE DETAIL SECTIONS "A" ON ENDWALL ELEVATIONS FOR PURLIN TO RAFTER DETAILS.
- 3) LOCATE PURLIN CLIP INSIDE OF ROOF PURLIN.

PURLIN BRIDGING ANGLE NOTES:

(MARK: PBA-10, SIZE: 1"x1"x16 GAGE)
 IF SHOWN, LOCATE PBA-10 AS INDICATED ON DRAWINGS. ONE ROW IS AT MIDPOINT OF BAY, TWO ROWS ARE AT 1/3 POINTS OF BAY, THREE ROWS ARE AT 1/4 POINTS OF BAY.

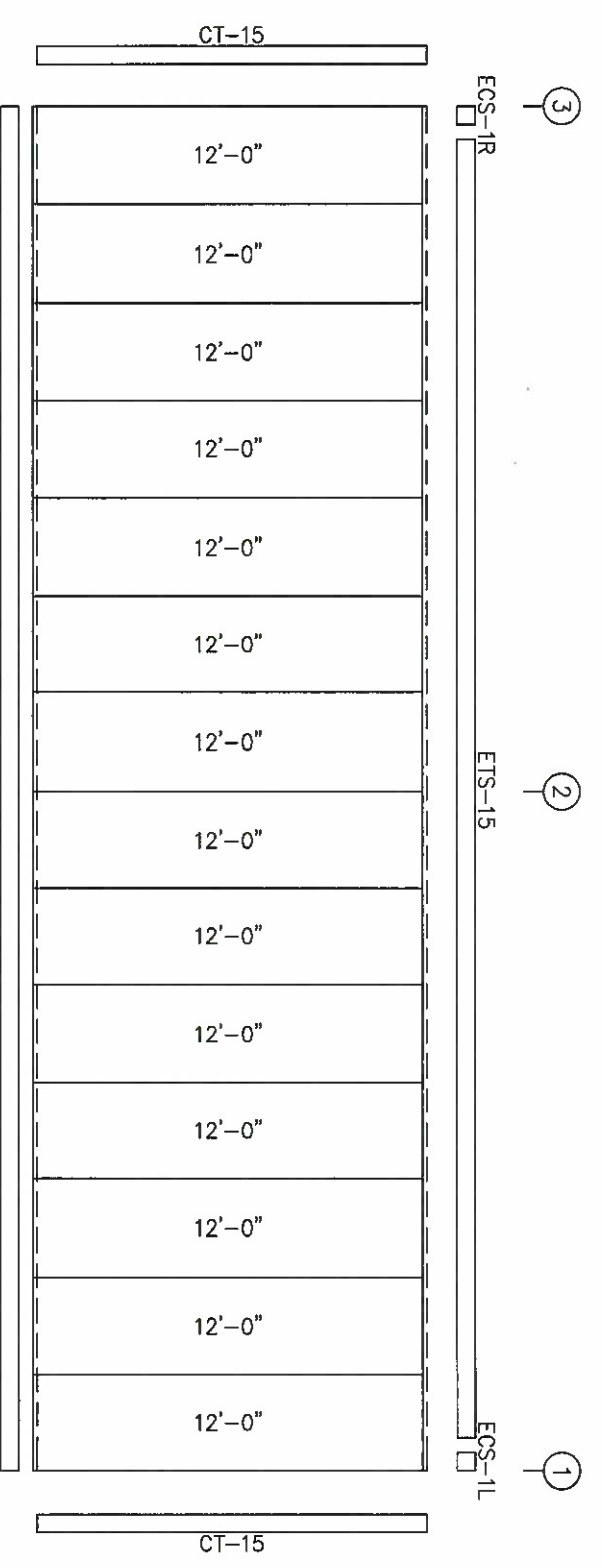
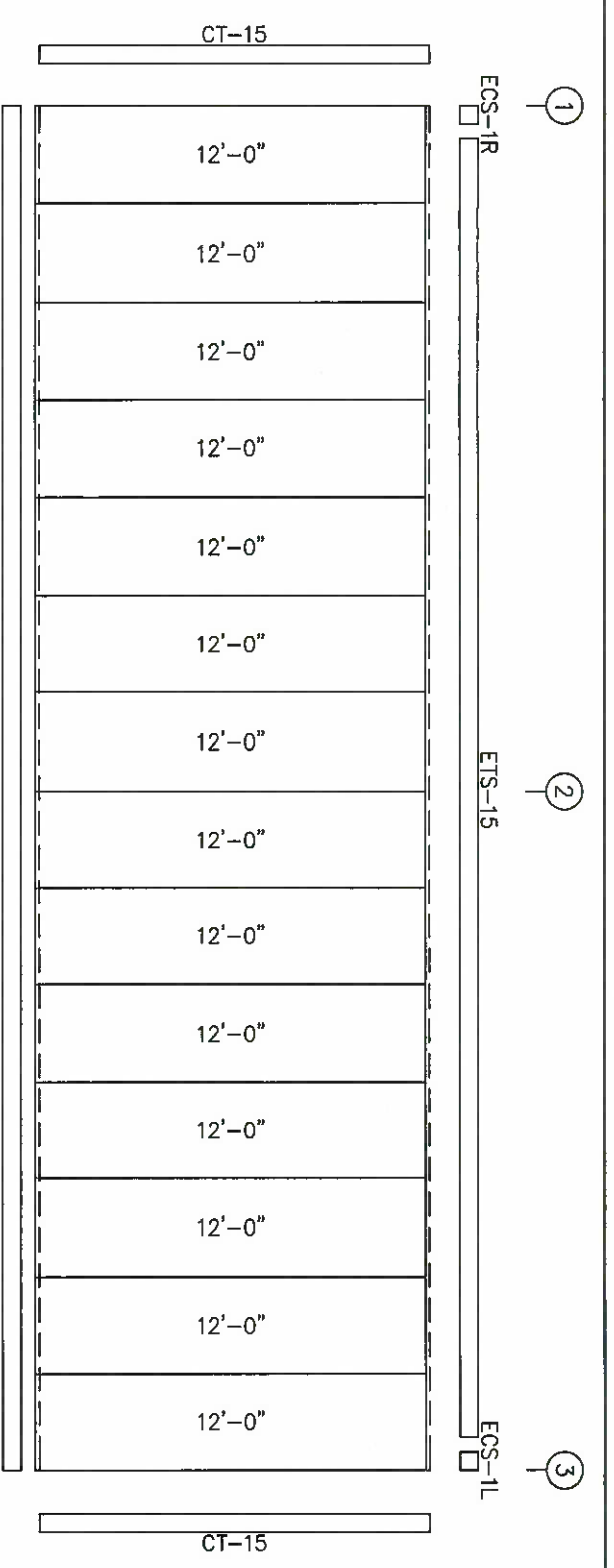


Sunward Steel Buildings

BUYER : Henry Williams
 CUST. : Henry Williams
 SITE : Angier, NC
 DESCR. : See Elevations
 SCALE : NONE
 JOB# : 108554

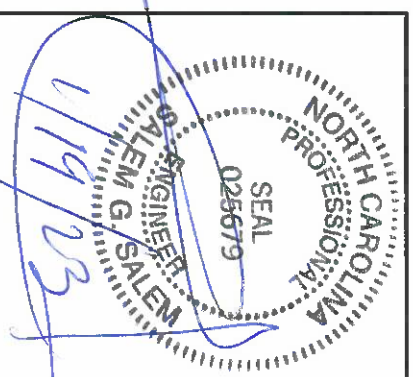
DRAWN BY: MMM
 1/9/23
 CHECK BY:
 DES. ENG. :
 SHEET NO. E5 OF 8

TRIM TABLE			
FRAME LINE A & D			
ID	PART	LENGTH	DETAIL
ETS-15		182"	TRIM_1
ECS-1R			TRIM_80
ECS-1L		182"	TRIM_80
CT-15		182"	TRIM_30
BT-15		182"	TRIM_5



IMPORTANT NOTE!
TRIM OVERLAP TO BE 1/2" (MAXIMUM). REFER TO PAGE 32 OF THE BUILDING ERECTION MANUAL.

- SHEETTING NOTES:**
- 1) WALL SHEETS TO BE FIELD CUT AT FRAMED OPENINGS AS REQUIRED.
 - 2) ROOF PITCHES GREATER THAN 1:12 REQUIRE WALL SHEETS TO BE FIELD CUT AT THE SLOPE OF BUILDING.

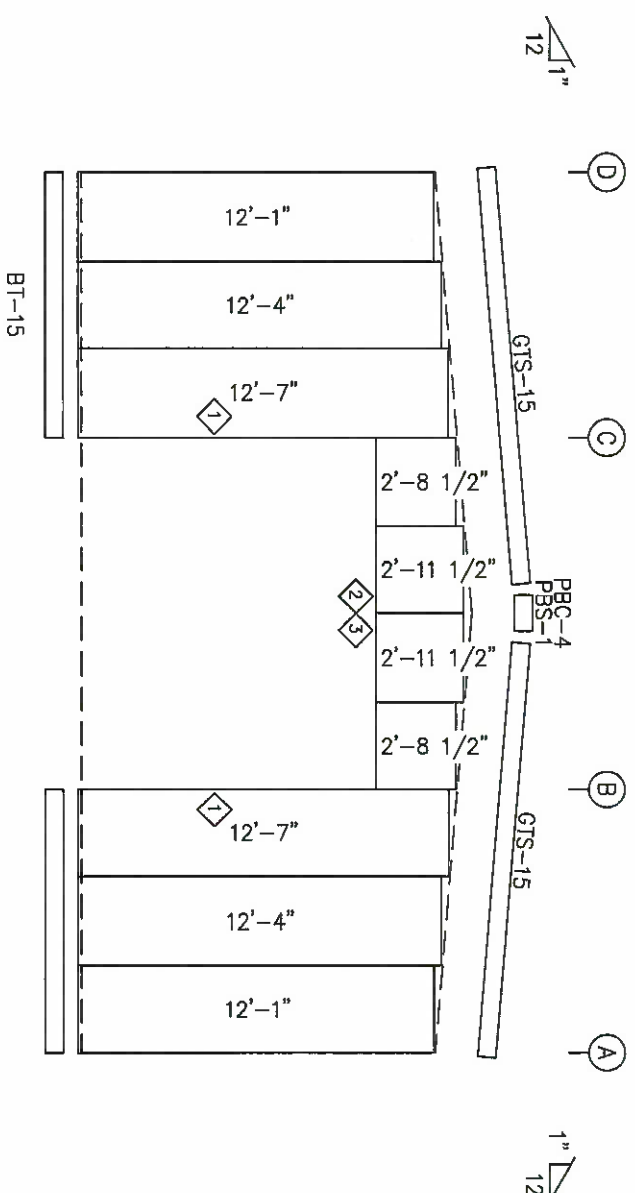


Sunward Steel Buildings

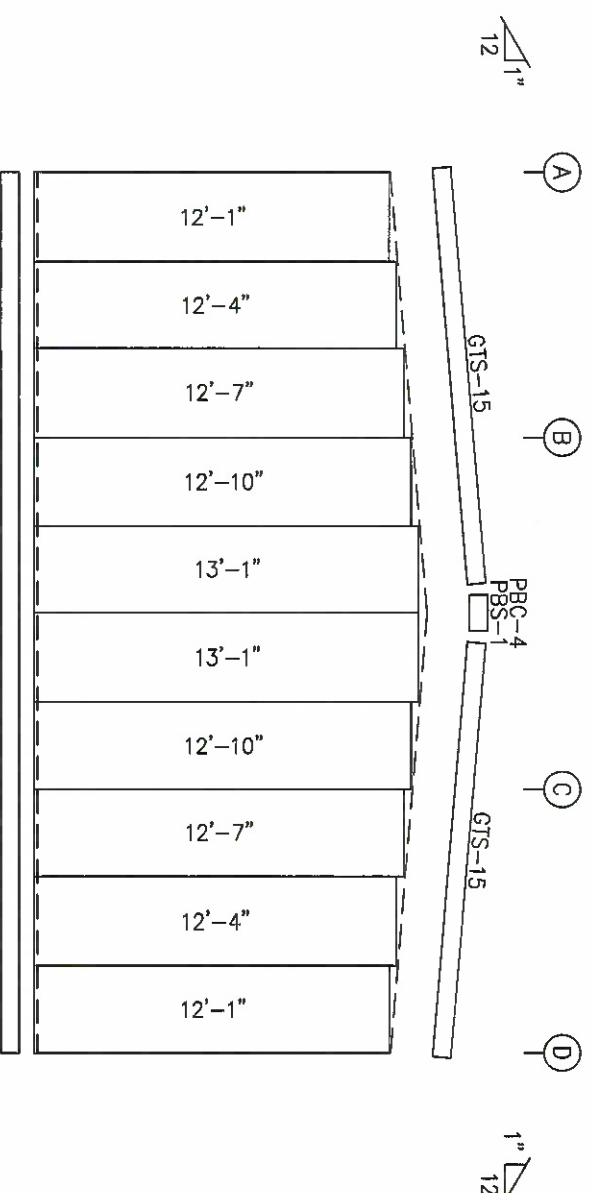
BUYER: Henry Williams
CUST.: Henry Williams
SITE: Angler, NC
DESCR.: See Elevations
SCALE: NONE
JOB#: 108554

DRAWN BY: MMM
1/9/23
CHECK BY: _____
DES. ENG.: _____
SHEET NO. E6 OF 8

TRIM TABLE	LINE 1 & 3		DETAIL	
ID	MATERIAL	LENGTH		
	GTS-15	182"	TRIM_7	
	PBS-1	182"	TRIM_8	
	BT-15	122"	TRIM_5	
1	JT-108	182"	TRIM_10	
2	HDT-15	182"	TRIM_9	
3	HT-158	182"	TRIM_9	



ELEVATION AT: LINE 1
26 Ga. HR



ELEVATION AT: LINE 3
26 Ga. HR

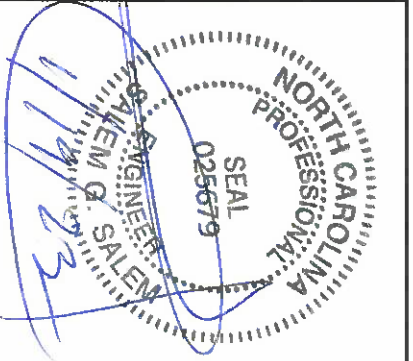
IMPORTANT NOTE!
TRIM OVERLAP TO BE 1/2" (MAXIMUM). REFER TO PAGE 32 OF THE BUILDING ERECTION MANUAL.

- SHEETING NOTES:**
- 1) WALL SHEETS TO BE FIELD CUT AT FRAMED OPENINGS AS REQUIRED.
 - 2) ROOF PITCHES GREATER THAN 1:12 REQUIRE WALL SHEETS TO BE FIELD CUT AT THE SLOPE OF BUILDING.

Sunward Steel Buildings

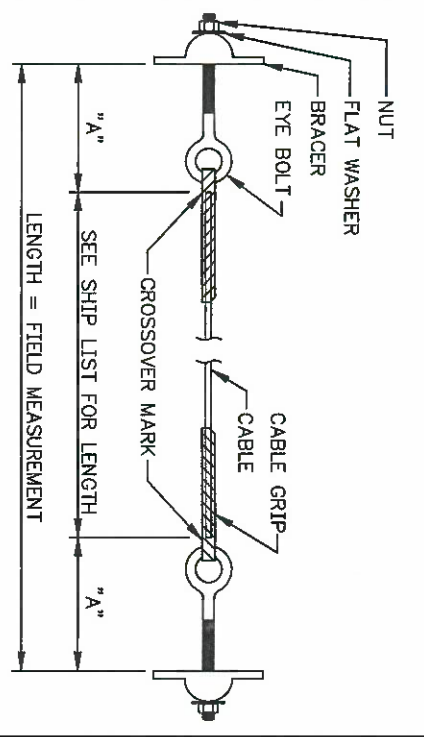
BUYER: Henry Williams
CUST.: Henry Williams
SITE: Angler, NC
DESCR.: See Elevations
SCALE: NONE
JOB#: 108554

DRAWN BY: MMM
1/9/23
CHECK BY: _____
DES. ENG.: _____
SHEET NO. E7 OF 8



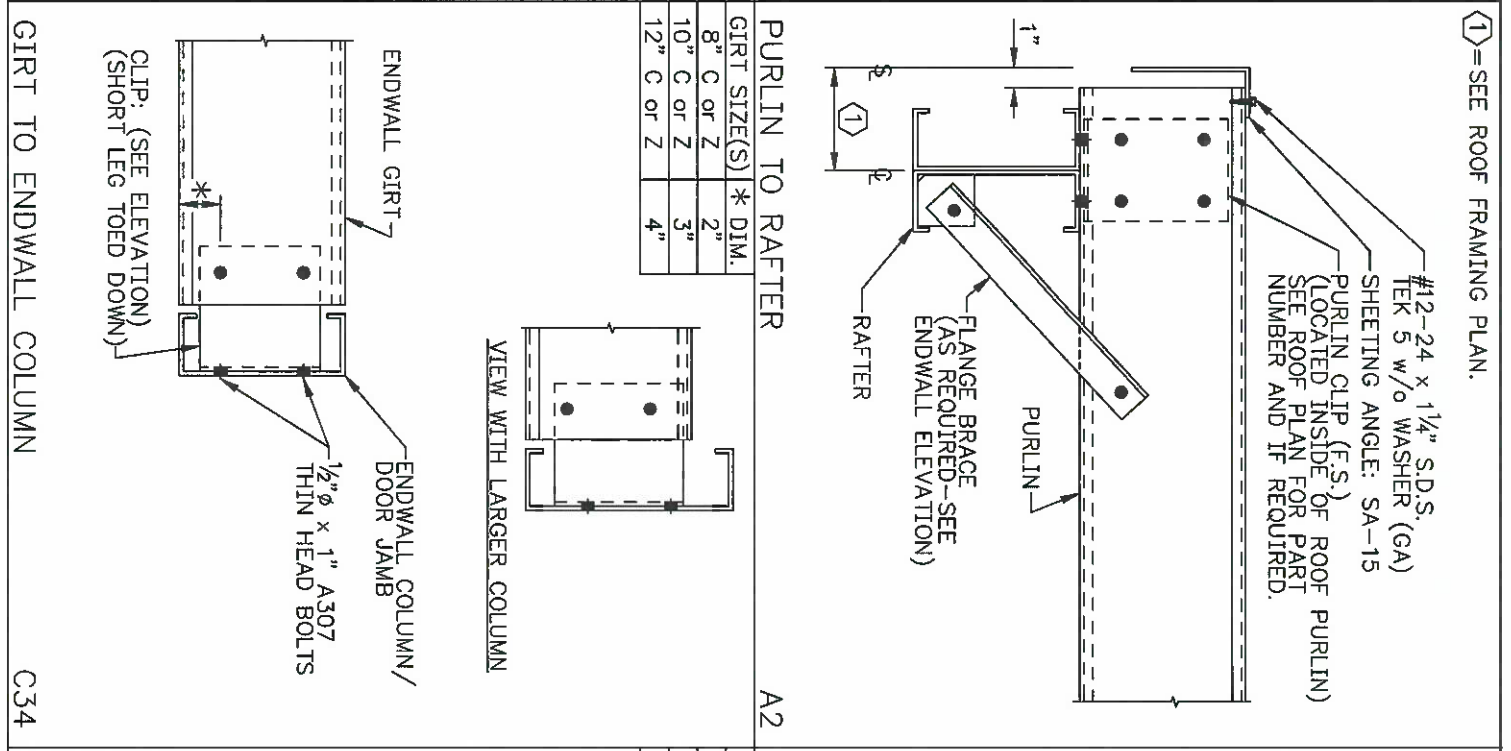
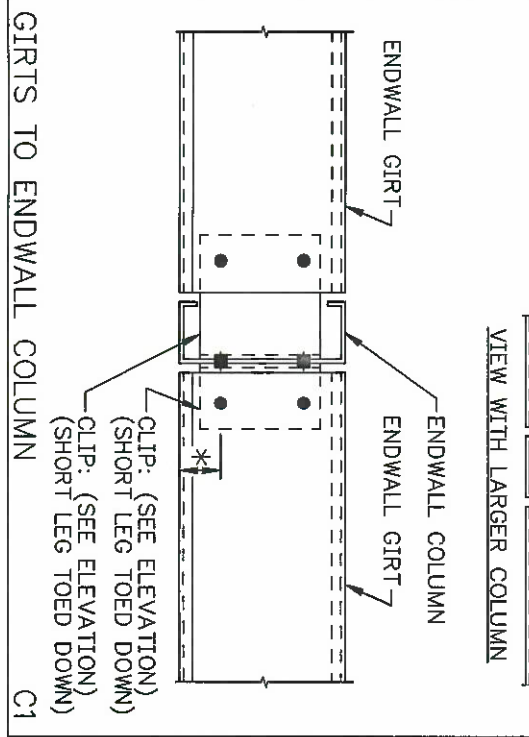
REFERENCE CHART

CABLE	5/16"	3/8"	1/2"
EYE BOLT	5/8"	3/4"	7/8"
"A" DIM.	9"	10"	12"



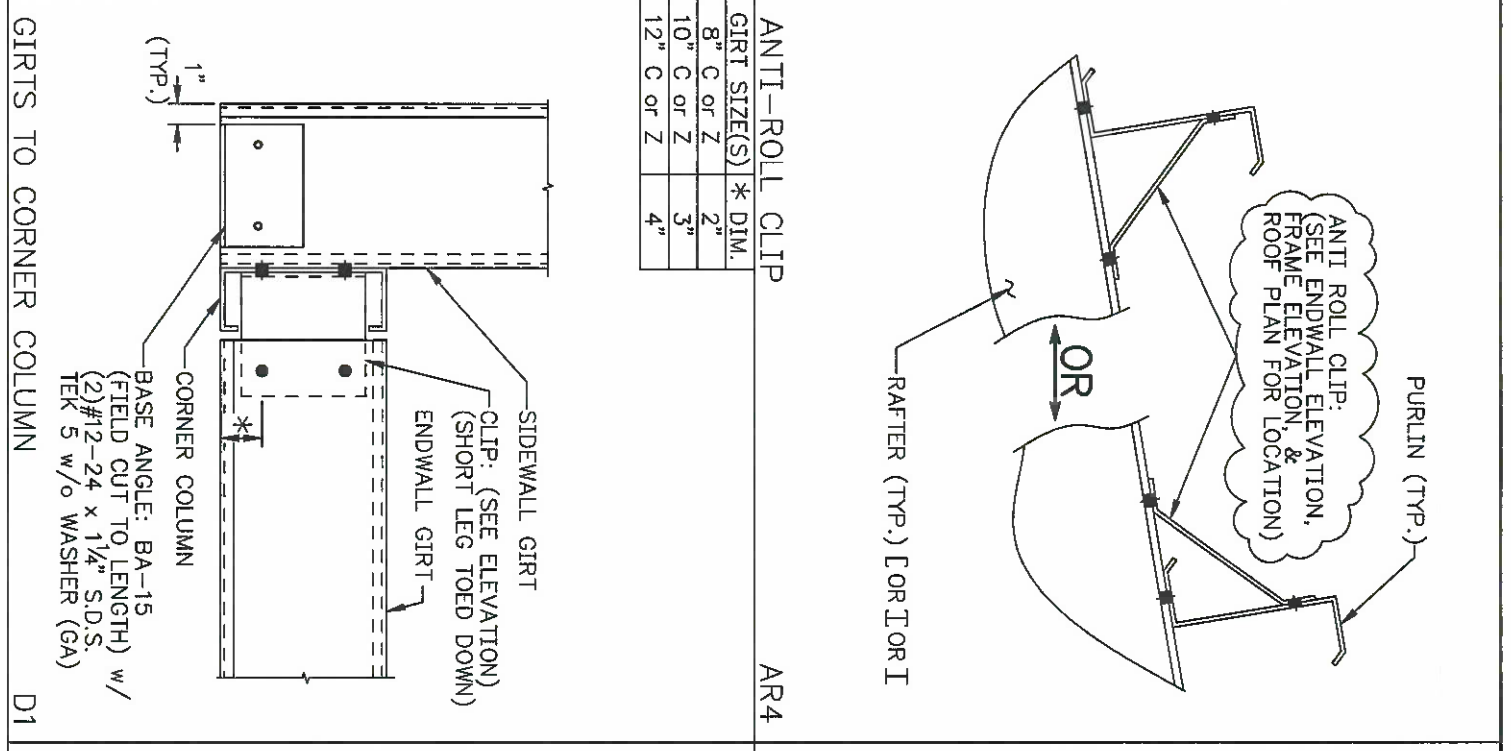
CABLE BRACING ASSEMBLY

GIRT SIZE(S) * DIM.	
8" C or Z	2"
10" C or Z	3"
12" C or Z	4"



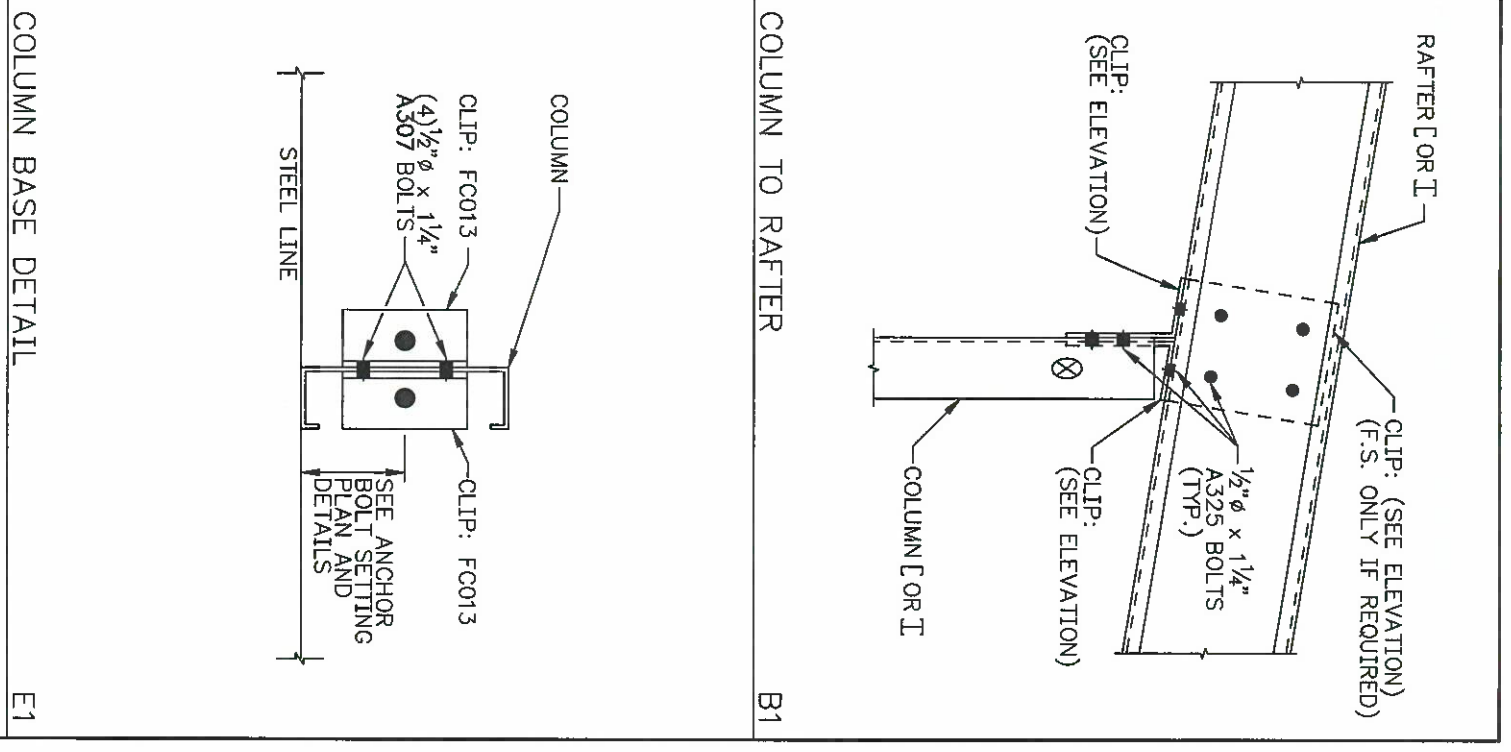
PURLIN TO RAFTER

GIRT SIZE(S) * DIM.	
8" C or Z	2"
10" C or Z	3"
12" C or Z	4"



ANTI-ROLL CLIP

GIRT SIZE(S) * DIM.	
8" C or Z	2"
10" C or Z	3"
12" C or Z	4"



COLUMN TO RAFTER

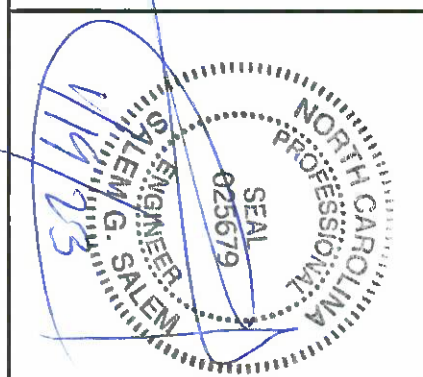
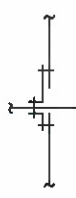
GIRT SIZE(S) * DIM.	
8" C or Z	2"
10" C or Z	3"
12" C or Z	4"

COLUMN BASE DETAIL

GIRT SIZE(S) * DIM.	
8" C or Z	2"
10" C or Z	3"
12" C or Z	4"

GENERAL NOTES:

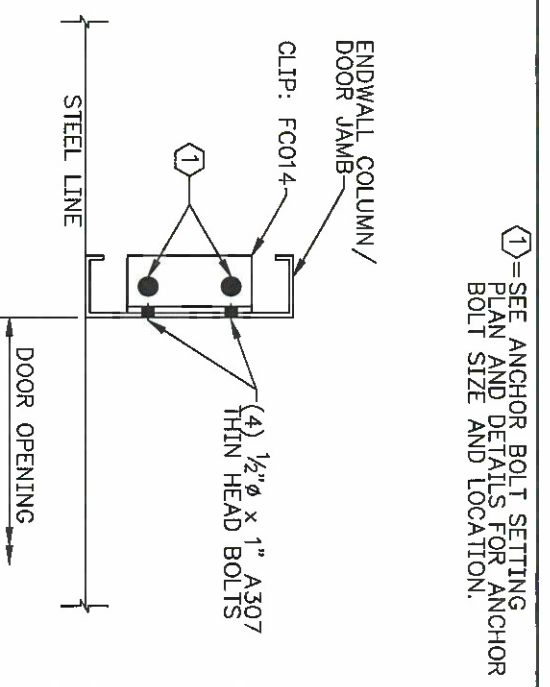
- 1) ALL BOLTS ARE TO BE 1/2" ϕ x 1 1/4" A307 UNLESS NOTED.
- 2) VIEW IS FROM OUTSIDE OF THE BUILDING UNLESS NOTED.
- 3) ALL DIMENSIONS ARE +/-.
- 4) MATCH SHOP MARK "X" IF SHOWN.
- 5) SEE ELEVATIONS AND PLANS FOR MEMBER SIZE(S). THE DETAILS SHOWN MAY NOT INDICATE ACTUAL SIZE.
- 6) SEE RIGID FRAME ELEVATION(S) FOR PURLIN AND GIRT ORIENTATION.
- 7) FRAMING CLIPS ARE TYPICALLY TOED DOWN UNLESS NOTED ON THE DRAWINGS.



Sunward Steel Buildings

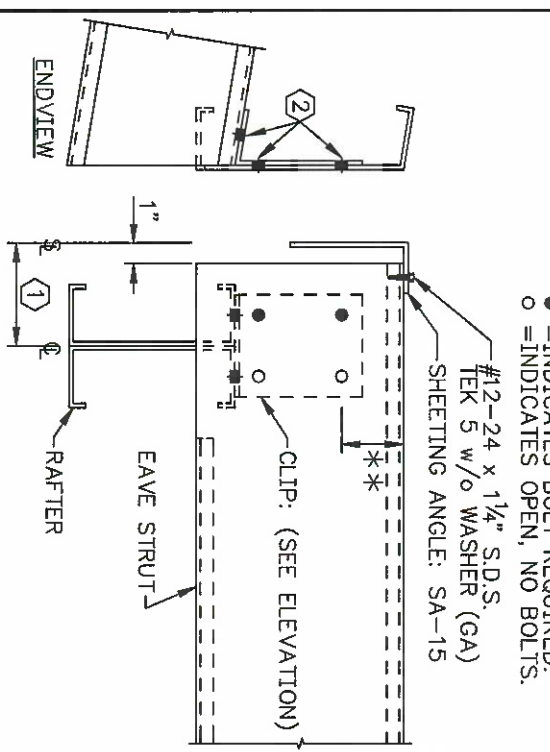
BUYER: Henry Williams
 CUST.: Henry Williams
 SITE: Angler, NC
 DESCR.: See Elevations
 SCALE: NONE
 JOB#: 108554

DRAWN BY: MMM
 CHECK BY: 1/9/23
 DES. ENG.:
 SHEET NO. G1 OF 5

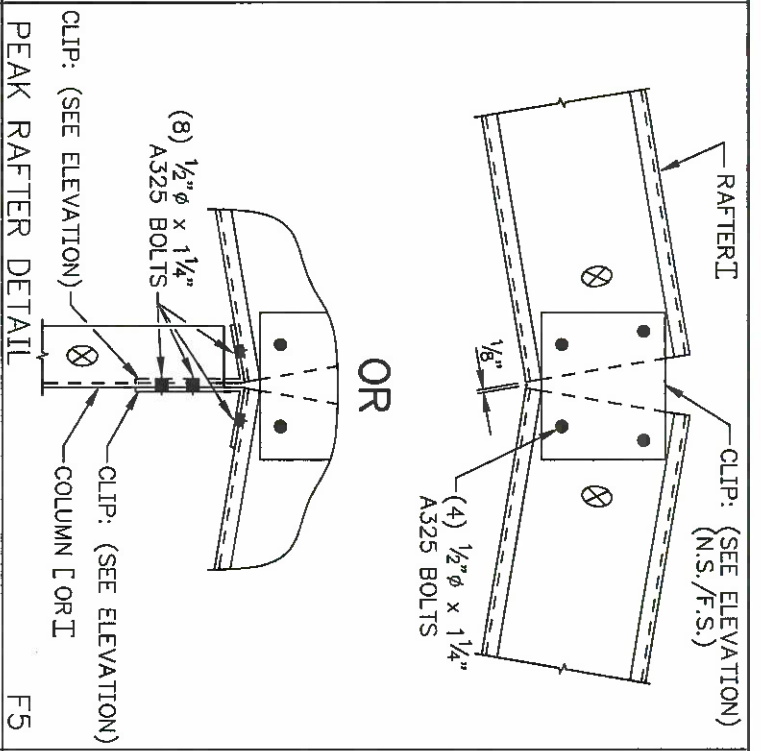


① = SEE ANCHOR BOLT SETTING PLAN AND DETAILS FOR ANCHOR BOLT SIZE AND LOCATION.

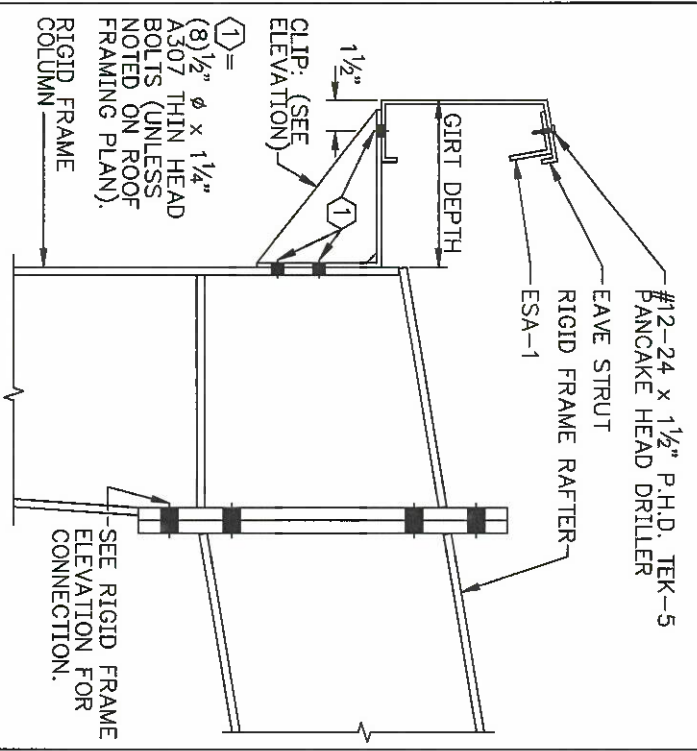
EAVE STRUT SIZE(S)	** DIM.
8" C	2"
10" C	3"
12" C	4"



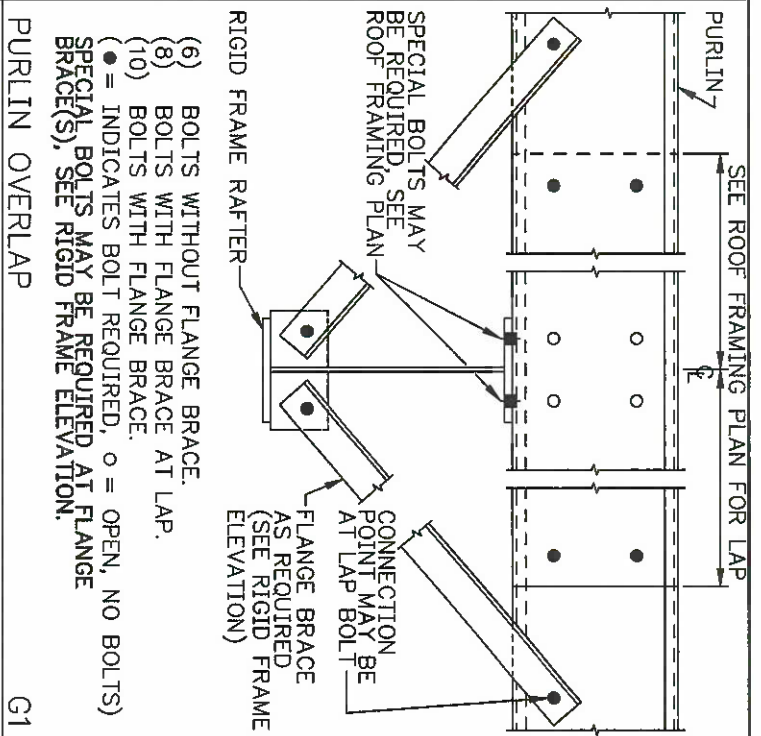
EAVE STRUT TO RAFTER 17



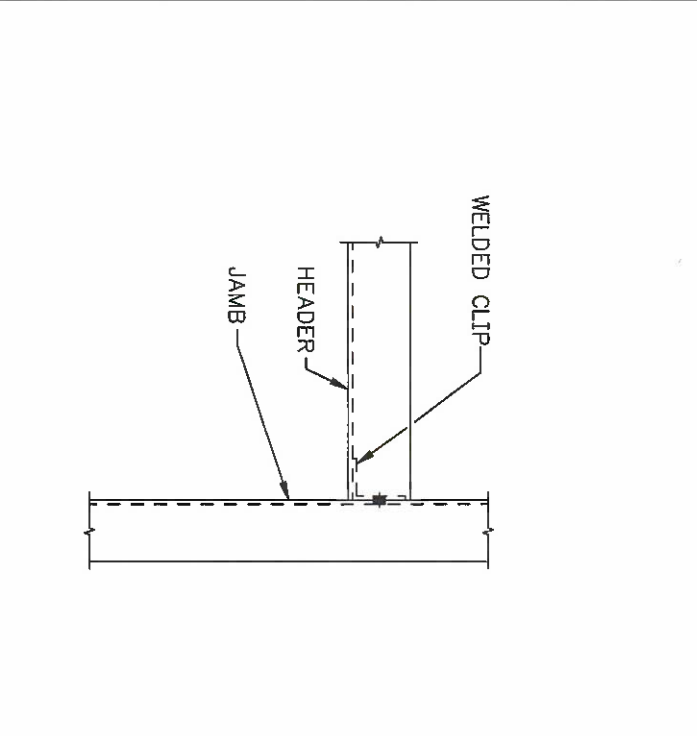
PEAK RAFTER DETAIL F5



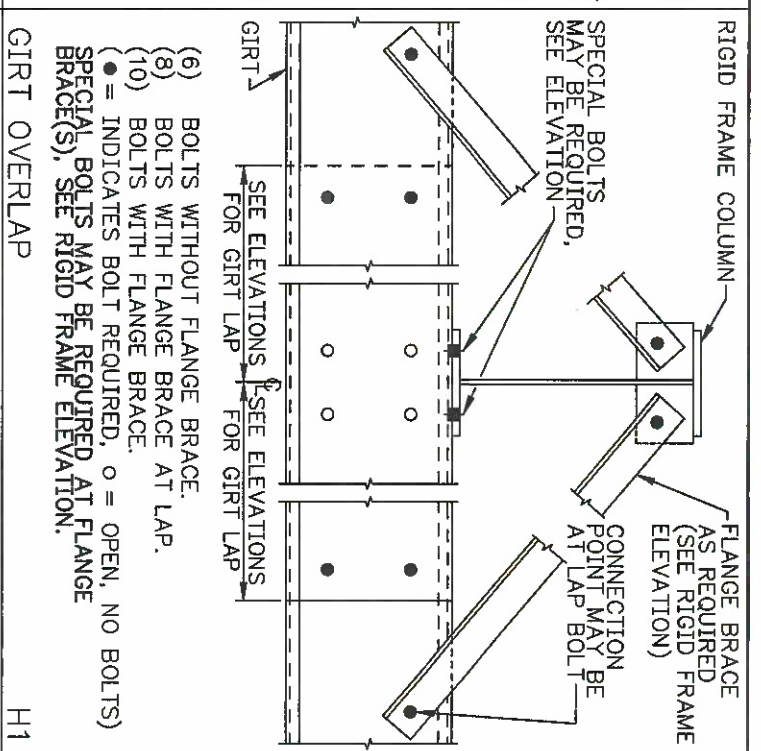
EAVE STRUT TO RIGID FRAME J6



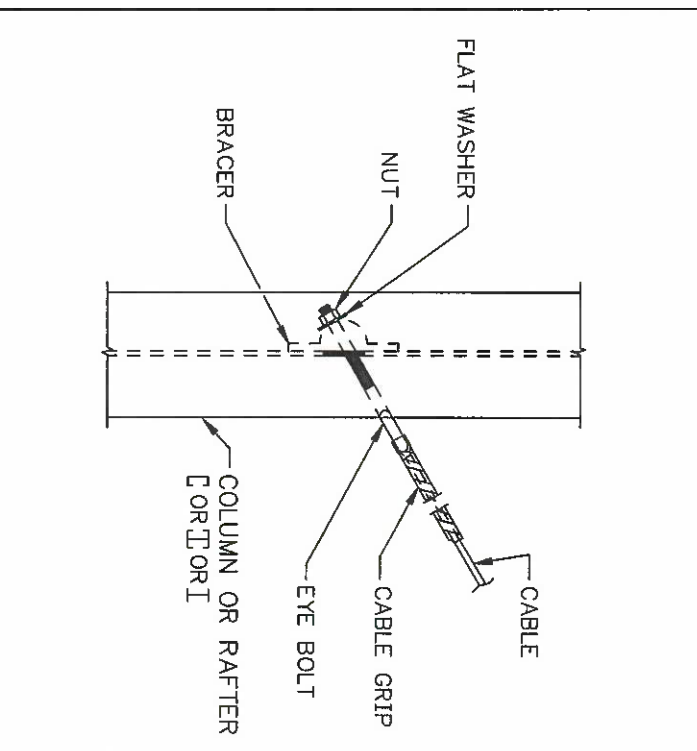
PURLIN OVERLAP G1



HEADER TO JAMB M3



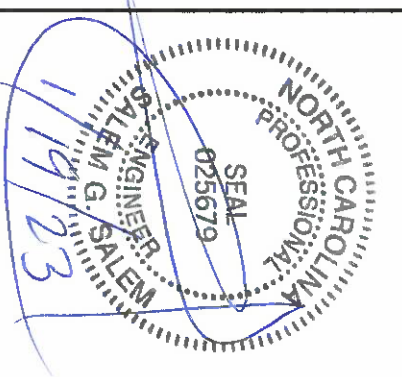
GIRT OVERLAP H1



BRACING AT FRAME MEMBERS Q2

GENERAL NOTES:

- 1) ALL BOLTS ARE TO BE 1/2" ϕ x 1 1/4" A307 UNLESS NOTED.
- 2) VIEW IS FROM OUTSIDE OF THE BUILDING UNLESS NOTED.
- 3) ALL DIMENSIONS ARE +/-.
- 4) MATCH SHOP MARK "X" IF SHOWN.
- 5) SEE ELEVATIONS AND PLANS FOR MEMBER SIZE(S); THE DETAILS SHOWN MAY NOT INDICATE ACTUAL SIZE.
- 6) SEE RIGID FRAME ELEVATION(S) FOR PURLIN AND GIRT ORIENTATION.
- 7) FRAMING CLIPS ARE TYPICALLY TOED DOWN UNLESS NOTED ON THE DRAWINGS.

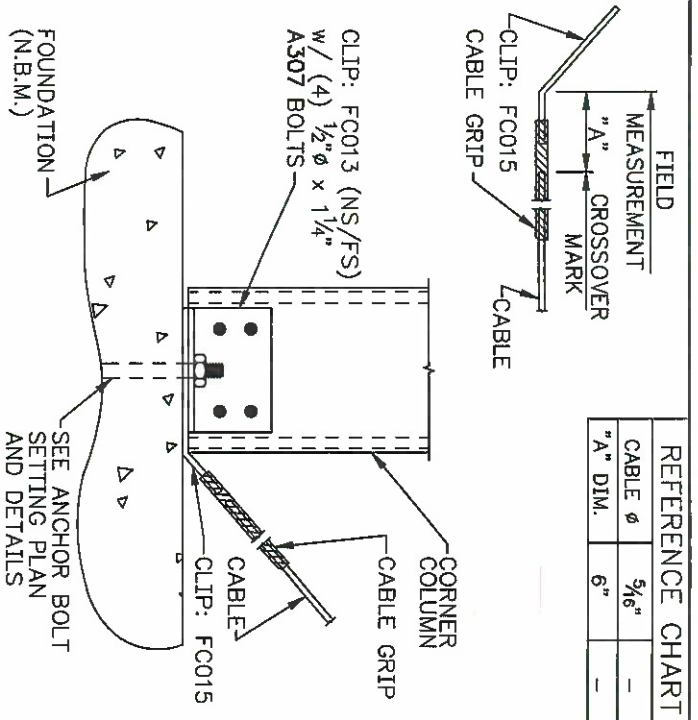


Sunward Steel Buildings

BUYER: Henry Williams
 CUST.: Henry Williams
 SITE: Angier, NC
 DESCR.: See Elevations
 SCALE: NONE
 JOB#: 108554

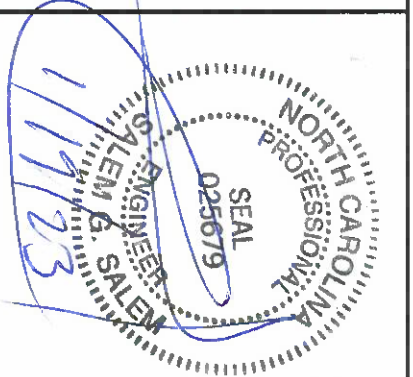
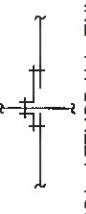
DRAWN BY: MAM
 1/9/23
 CHECK BY: _____
 DES. ENG.: _____
 SHEET NO. 02 OF 5

REFERENCE CHART		
CABLE ϕ	$\frac{5}{16}$ "	-
"A" DIM.	6"	-



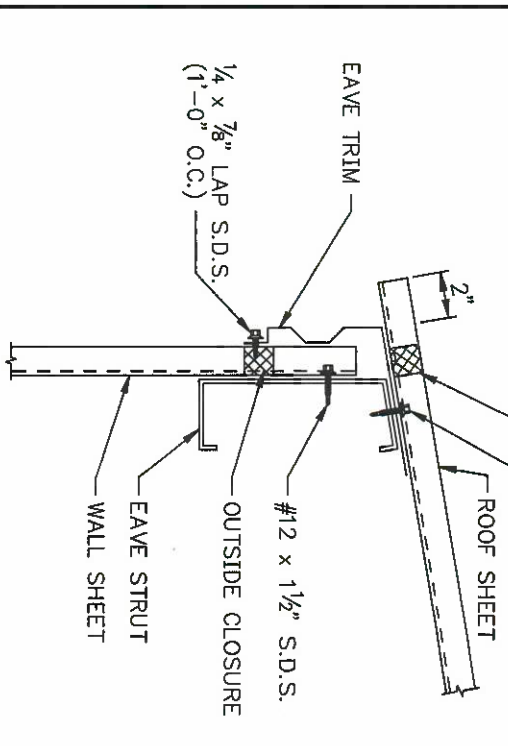
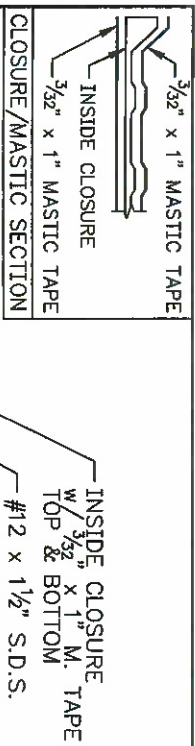
CABLE BRACE DETAIL Q6

- GENERAL NOTES:**
- 1) ALL BOLTS ARE TO BE $\frac{1}{2}$ " ϕ x $1\frac{1}{4}$ " A307 UNLESS NOTED.
 - 2) VIEW IS FROM OUTSIDE OF THE BUILDING UNLESS NOTED.
 - 3) ALL DIMENSIONS ARE +/-.
 - 4) MATCH SHOP MARK "X" IF SHOWN.
 - 5) SEE ELEVATIONS AND PLANS FOR MEMBER SIZE(S); THE DETAILS SHOWN MAY NOT INDICATE ACTUAL SIZE.
 - 6) SEE RIGID FRAME ELEVATION(S) FOR PURLIN AND GIRT ORIENTATION.
 - 7) FRAMING CLIPS ARE TYPICALLY TOED DOWN UNLESS NOTED ON THE DRAWINGS.



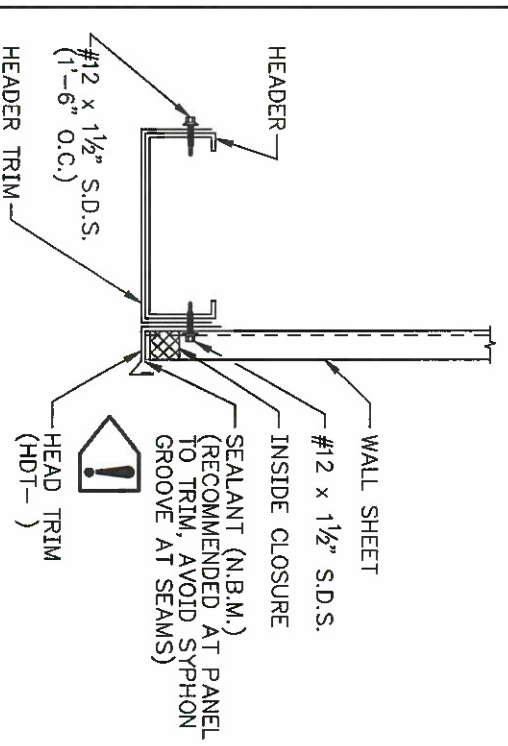
Sunward Steel Buildings
 BUYER: Henry Williams
 CUST.: Henry Williams
 SITE: Angler, NC
 DESCR.: See Elevations
 SCALE: NONE
 JOB#: 108554

DRAWN BY: MMM
 CHECK BY: 1/9/23
 DES. ENG.:
 SHEET NO. G3 OF 5

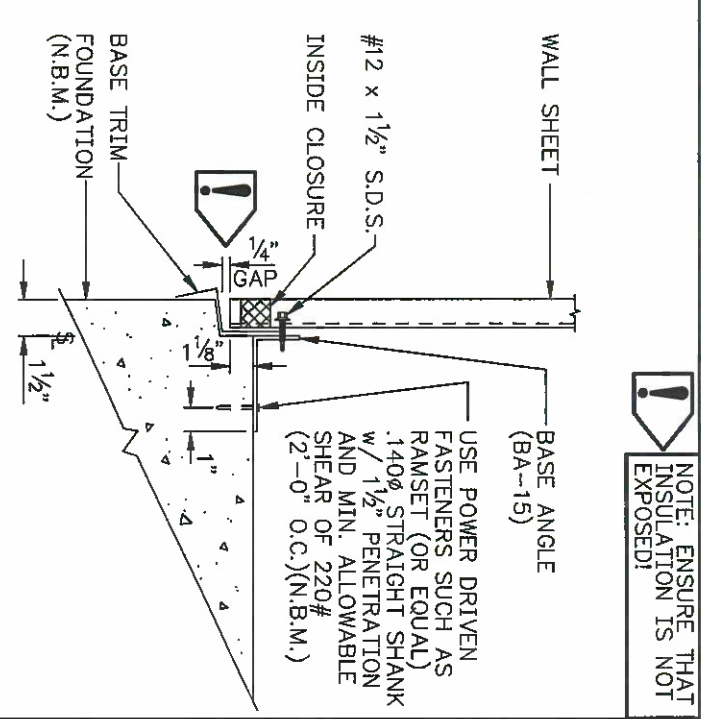


EAVE TRIM SECTION
TRIM_1

NOTE: ENSURE THAT INSULATION IS NOT EXPOSED!

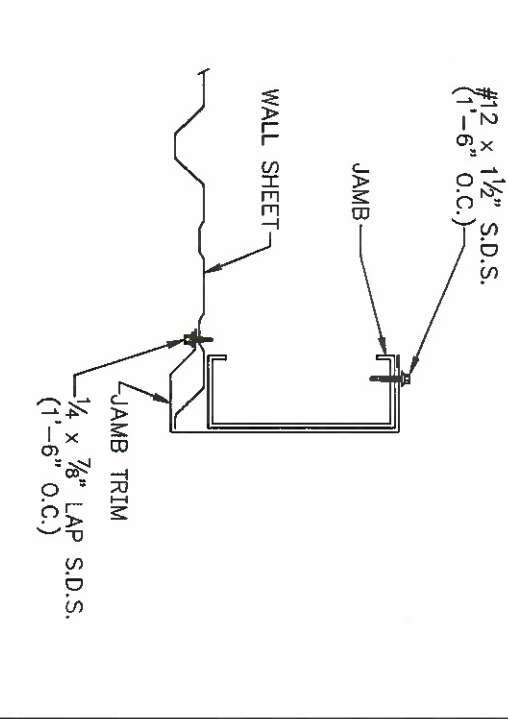


HEADER TRIM
TRIM_9

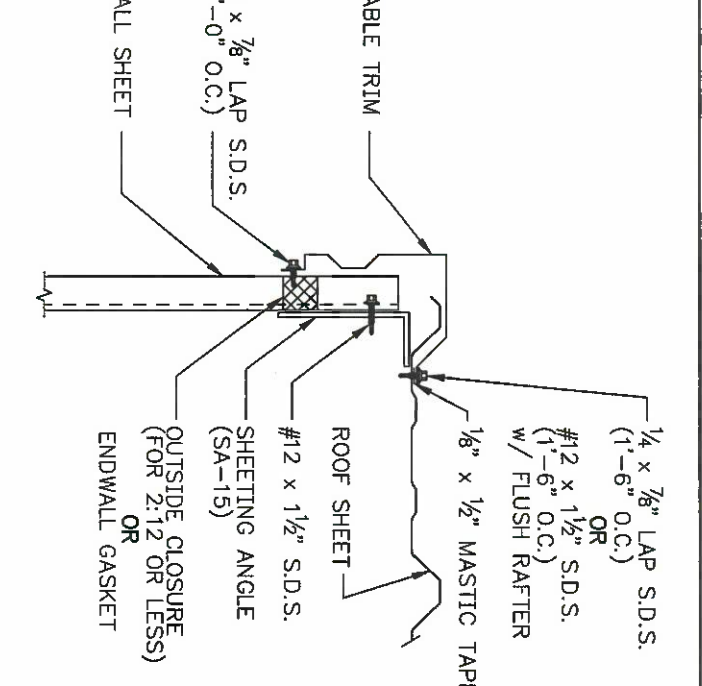


BASE TRIM SECTION
TRIM_5

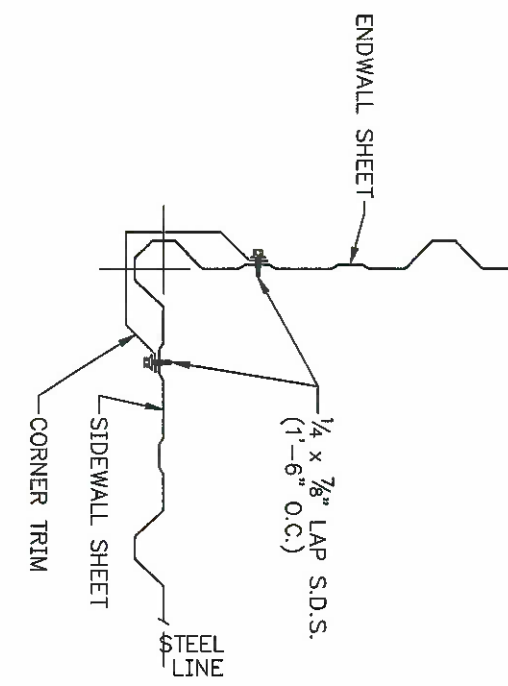
NOTE: ENSURE THAT INSULATION IS NOT EXPOSED!



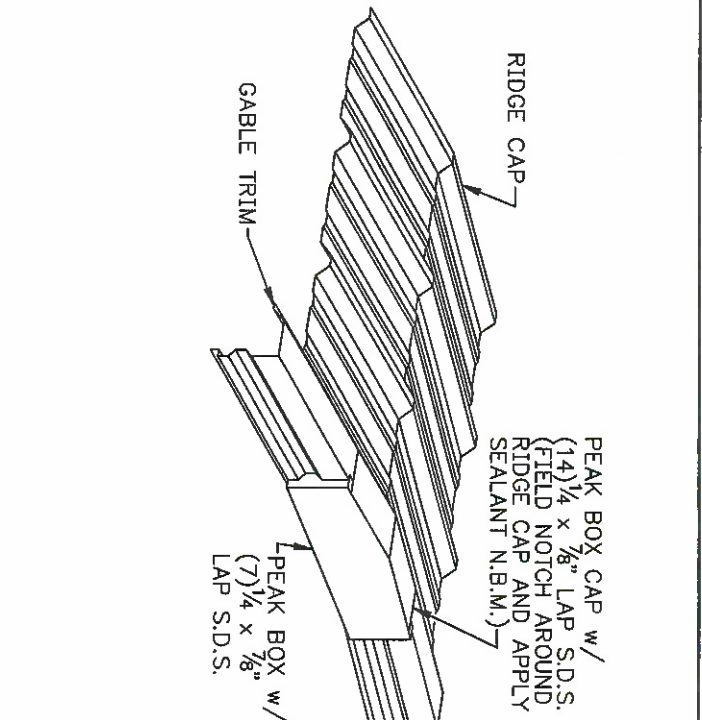
JAMB TRIM (1'-0")
TRIM_10



GABLE TRIM SECTION
TRIM_7

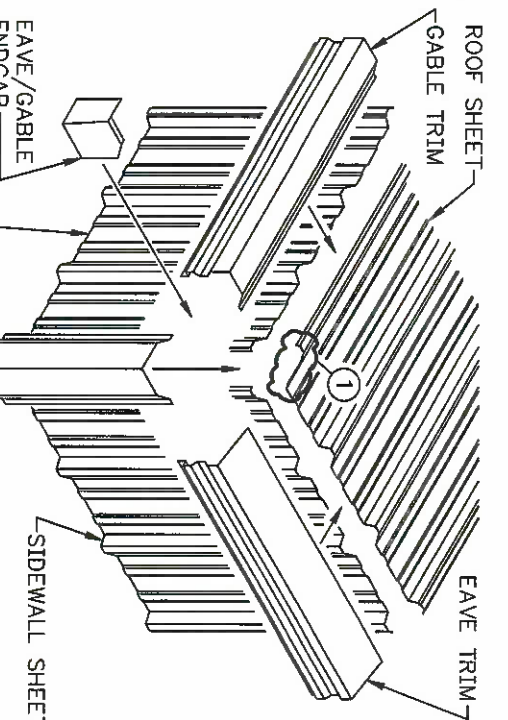


CORNER TRIM SECTION
TRIM_30



PEAK BOX
TRIM_8

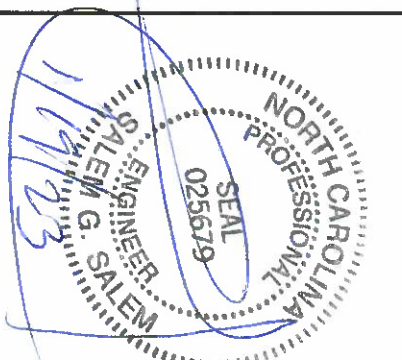
NOTES: ① FIELD NOTCH ROOF SHEET TO ACCOMMODATE ENDCAP.



CORNER DETAIL
TRIM_80

GENERAL NOTES:

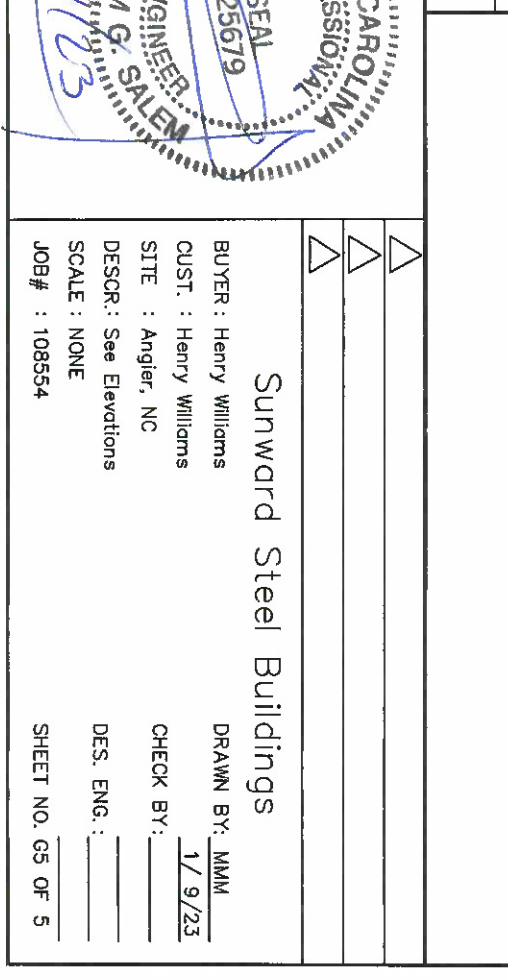
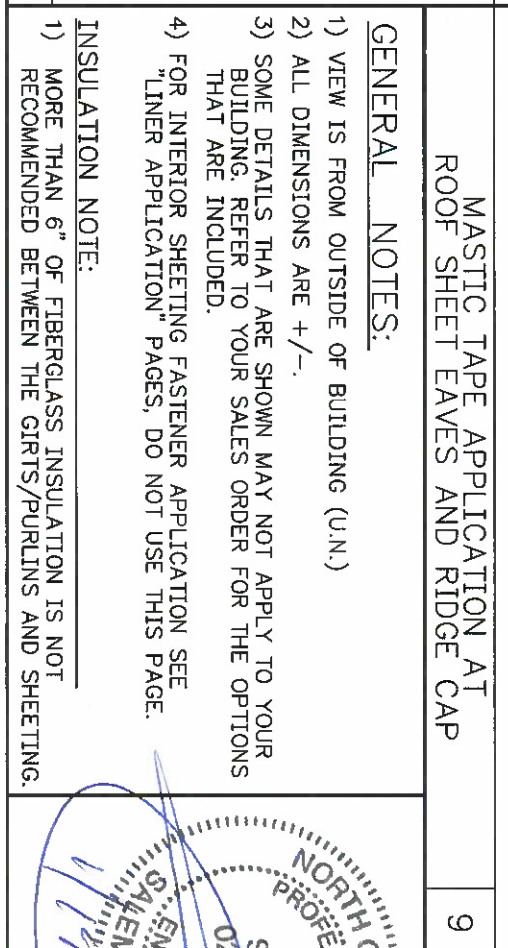
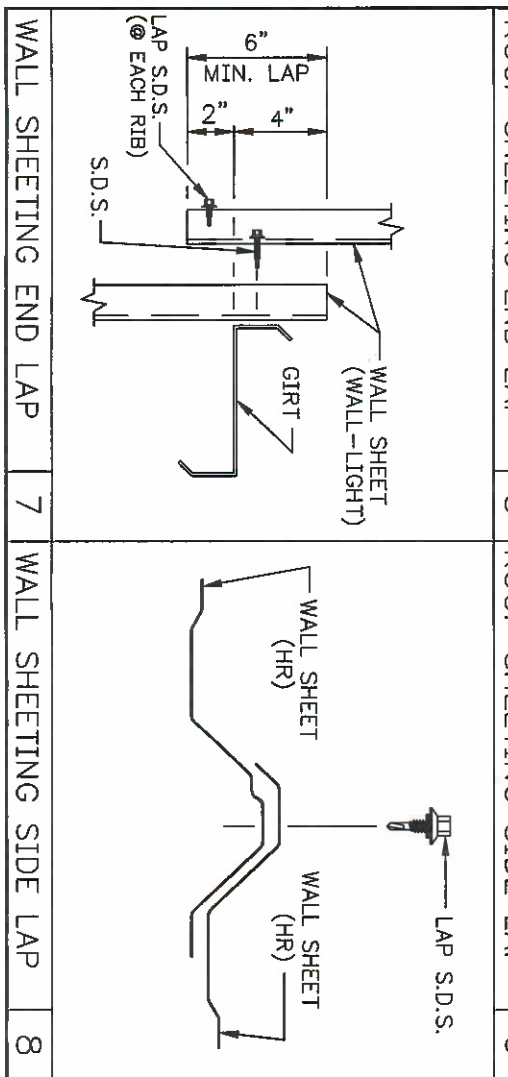
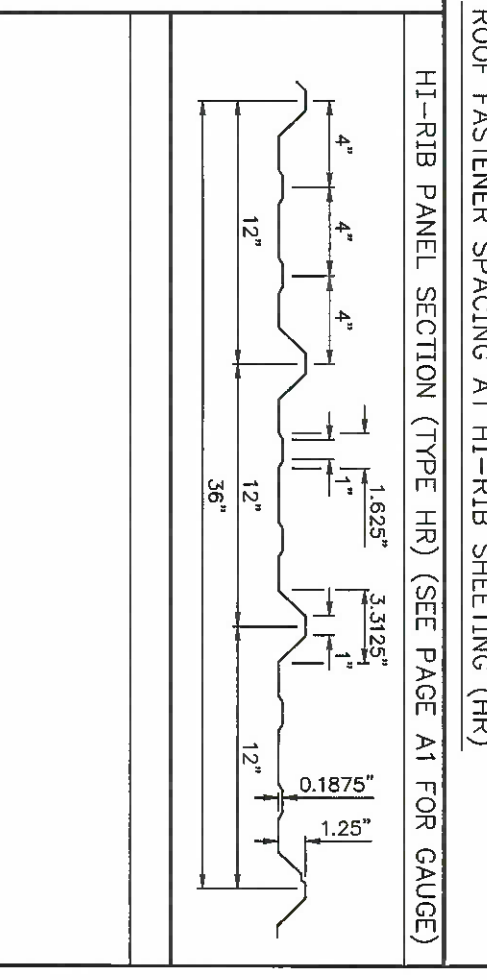
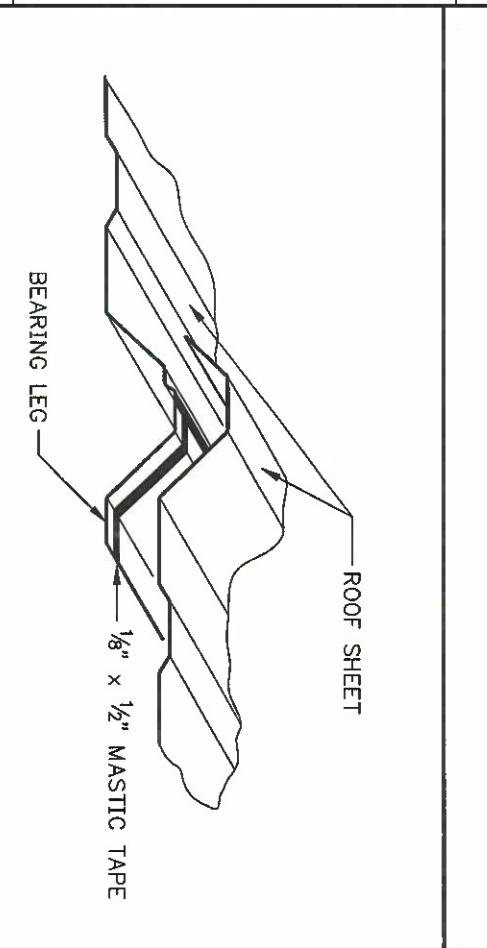
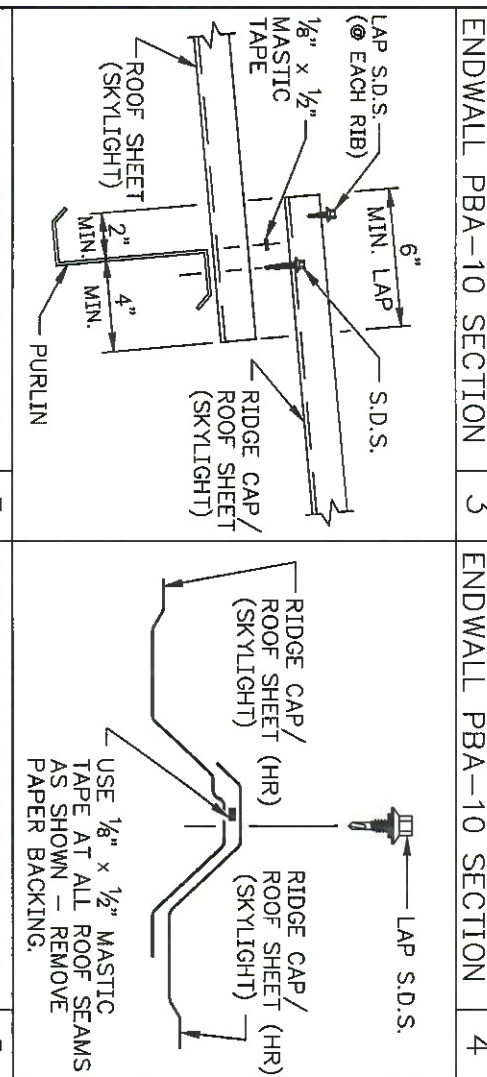
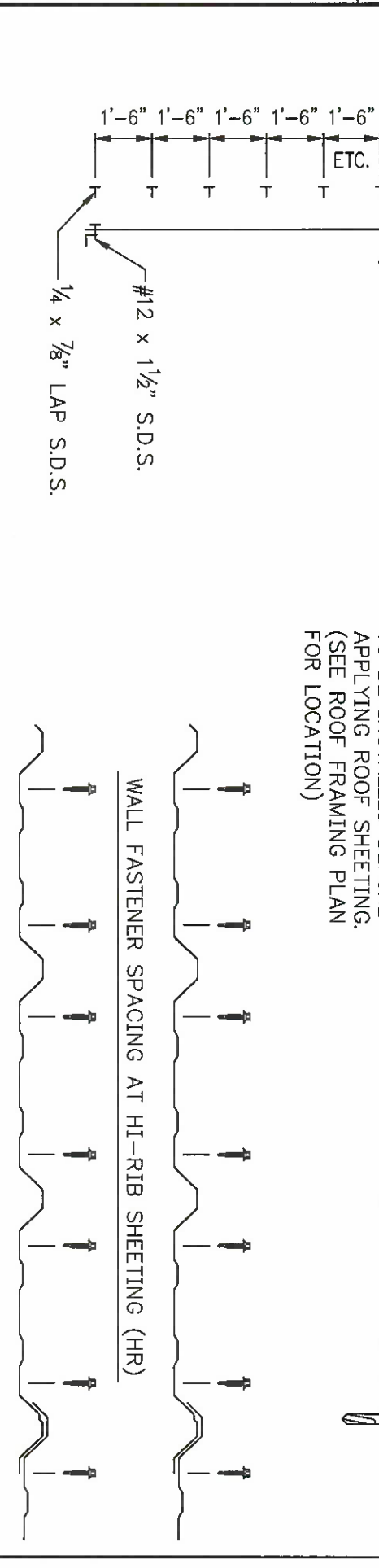
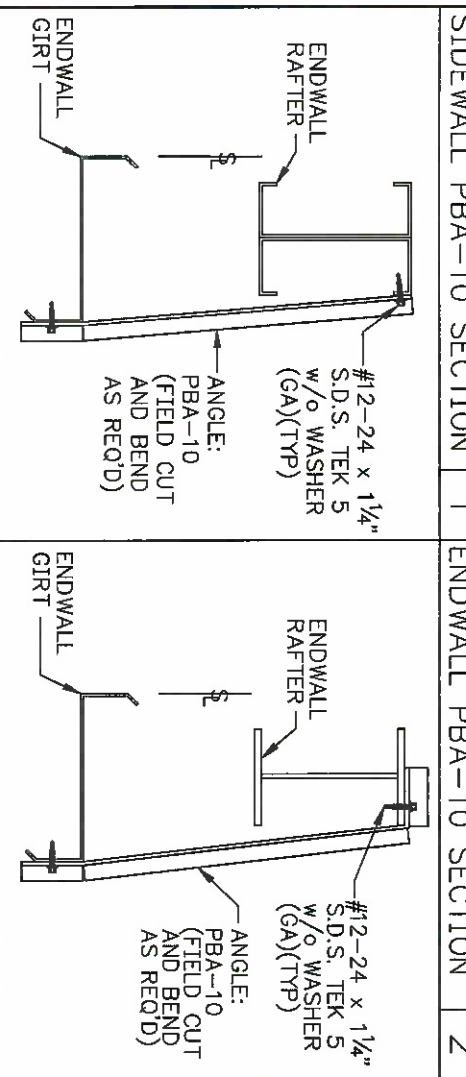
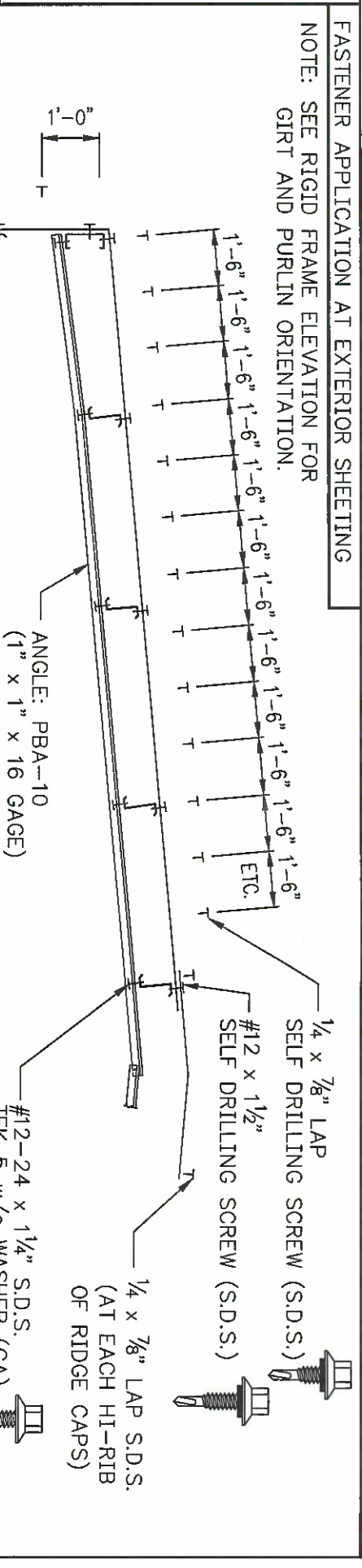
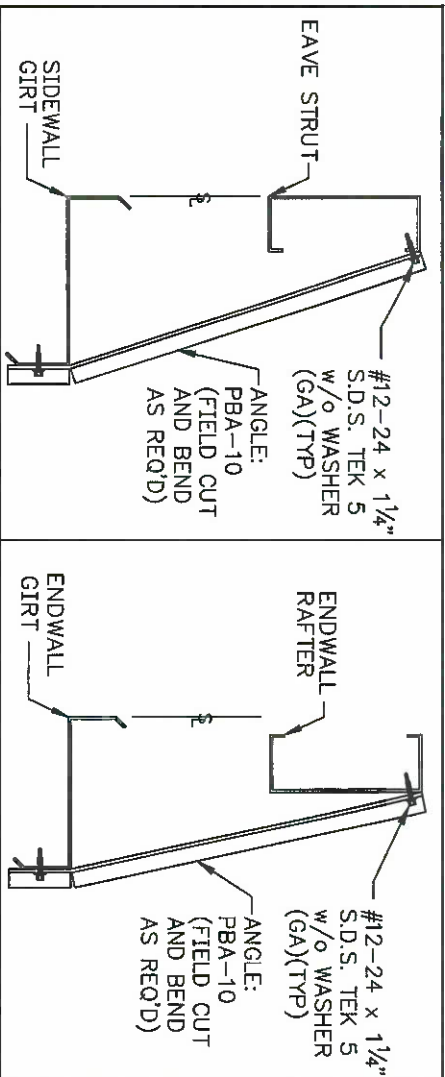
- 1) ALL BOLTS ARE TO BE 1/2" ϕ x 1 1/4" A307 UNLESS NOTED.
- 2) VIEW IS FROM OUTSIDE OF THE BUILDING UNLESS NOTED.
- 3) ALL DIMENSIONS ARE +/-.
- 4) MATCH SHOP MARK "X" IF SHOWN.
- 5) SEE ELEVATIONS AND PLANS FOR MEMBER SIZE(S); THE DETAILS SHOWN MAY NOT INDICATE ACTUAL SIZE.
- 6) SEE RIGID FRAME ELEVATION(S) FOR PURLIN AND GIRT ORIENTATION.
- 7) FRAMING CLIPS ARE TYPICALLY TOED DOWN UNLESS NOTED ON THE DRAWINGS.



Sunward Steel Buildings

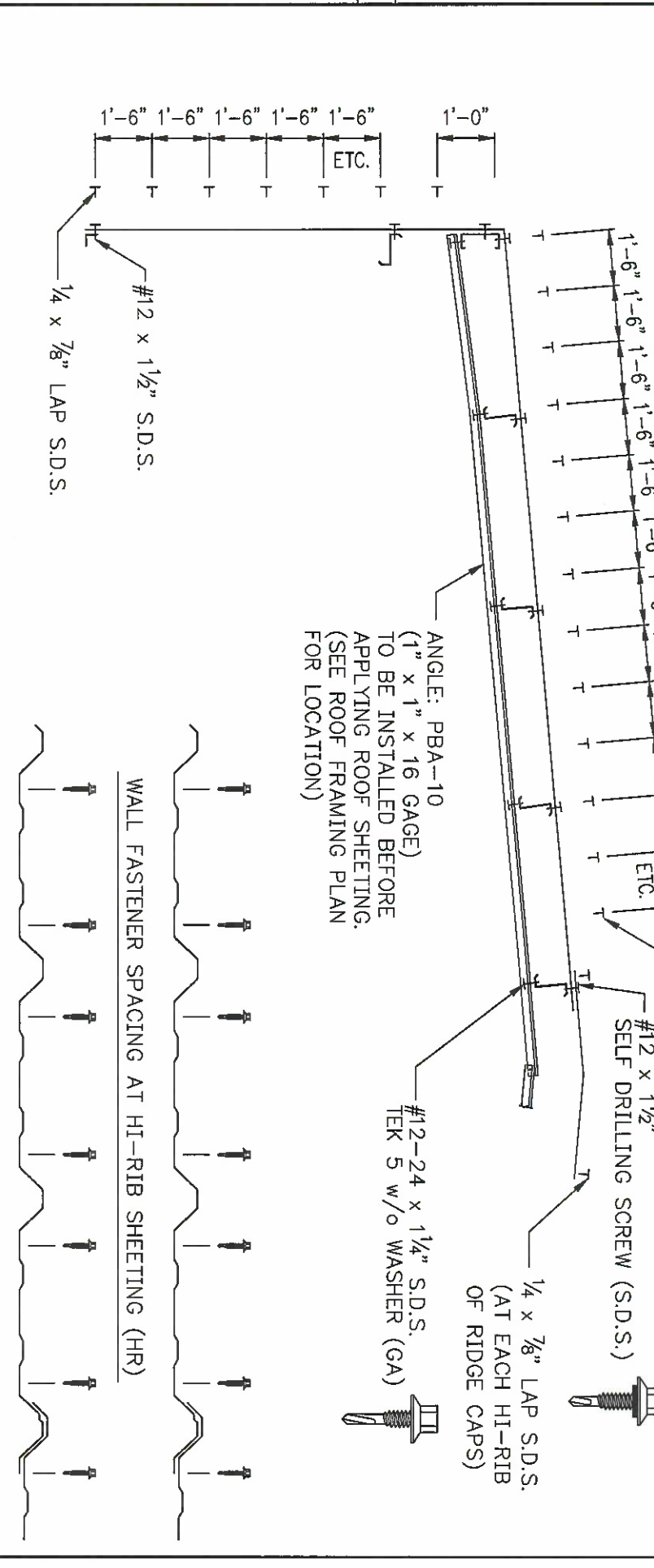
BUYER: Henry Williams
CUST.: Henry Williams
SITE: Angier, NC
DESCR.: See Elevations
SCALE: NONE
JOB#: 108554

DRAWN BY: MMM
1/9/23
CHECK BY:
DES. ENG.:
SHEET NO. 04 OF 5



FASTENER APPLICATION AT EXTERIOR SHEETING

NOTE: SEE RIGID FRAME ELEVATION FOR GIRT AND PURLIN ORIENTATION.



GENERAL NOTES:

- 1) VIEW IS FROM OUTSIDE OF BUILDING (U.N.)
 - 2) ALL DIMENSIONS ARE +/-.
 - 3) SOME DETAILS THAT ARE SHOWN MAY NOT APPLY TO YOUR BUILDING. REFER TO YOUR SALES ORDER FOR THE OPTIONS THAT ARE INCLUDED.
 - 4) FOR INTERIOR SHEETING FASTENER APPLICATION SEE "LINER APPLICATION" PAGES, DO NOT USE THIS PAGE.
- INSULATION NOTE:
 1) MORE THAN 6" OF FIBERGLASS INSULATION IS NOT RECOMMENDED BETWEEN THE GIRTS/PURLINS AND SHEETING.



Sunward Steel Buildings

BUYER: Henry Williams
 CUST.: Henry Williams
 SITE: Angler, NC
 DESGR.: See Elevations
 SCALE: NONE
 JOB#: 108654

DRAWN BY: MAM
 CHECK BY: 1/9/23
 DES. ENG.:
 SHEET NO. 65 OF 5