

BUILDING ERECTION NOTES

- 1. THE METAL BUILDING SUPPLIER ASSUMES NO RESPONSIBILITY OR LIABILITY FOR FOUNDATION, FLOOR OR SLAB DESIGN OR CONSTRUCTION
- 2. THE FOUNDATION DESIGN SHOULD BE DONE WITH DUE REGARD TO THE SPECIFIC SOIL CONDITIONS PRESENT AT THE ACTUAL JOBSITE.
- 3. FOLUNDATION MUST BE DESIGNED FOR THE APPLICABLE REACTIONS AS THEY APPLY TO A PARTICULAR BUILDING AND MUST BE ADEQUATE TO RESIST ALL OF THE CRITICAL COMBINATIONS

FOR EACH OF THE VARIOUS LOADING CONDITIONS. THESE REACTIONS AND LOAD COMBINATIONS MUST BE USED TO DETERMINE THE DESIGN LOADS TO BE RESISTED BY THE FOUNDATIONS 4. REINFORCING BARS, WIRE MESH, ANCHOR ROD SHEAR ANGLES, TIE RODS AND / OR HAIRPINS (HOOK BARS) SHOULD BE INCORPORATED AS REQUIRED INTO THE FOUNDATION DESIGN. THE HORIZONTAL THRUST AT THE COLUMN BASE ACTING IN CONJUNCTION WITH APPLICABLE VERTICAL REACTIONS, MUST BE SUSTAINED BY HAIRPINS, TIE RODS, BUTTRESSES, OR

5 COLLIMN FOOTING SHOULD EXTEND A MINIMUM OF 12 INCHES INTO NATURAL SOIL, OR WHERE FILL IS USED. THE FILL MUST BE PROPERLY COMPACTED OR THE FOOTING SHALL

EXTEND TO THE NATURAL GRADE. IN ALL CASES THE FOOTING SHALL EXTEND AT LEAST 6 INCHES BELOW THE LOCAL FROST LINE.

6. EXPANSION OR CONSTRUCTION JOINTS SHALL BE LOCATED AS REQUIRED IN FOUNDATION WALLS AND SLAB, AS SPECIFIED BY THE FOUNDATION DESIGNER.

7. THE TOP OF THE FOUNDATION OR FLOOR SHALL BE SQUARE, LEVEL AND SMOOTH. ANCHOR RODS SHALL BE ACCURATELY SET TO A TOLERANCE +/- 1/16 INCH ON DIMENSIONS WITHIN THE GROUP SPACING FOR AN INDIVIDUAL COLUMN. ALL OTHER DIMENSIONS SHALL HAVE A +/- 1/8 INCH TOLERANCE.

8. COLUMN BASE PLATES ARE DESIGNED NOT TO EXCEED THE ALLOWABLE BEARING STRESS OF CONCRETE THAT HAS A MINIMUM COMPRESSIVE STRENGTH OF 2500 P.S.I. AT 28 DAYS. 9. UNLESS EXPLICITLY NOTED OTHERWISE, ALL EMBEDDED STRUCTURAL STEEL (INCLUDING ANCHOR RODS), OTHER MATERIALS, AND LABOR SHALL BE SUPPLIED BY THE FOUNDATION

CONTRACTOR 10. ANCHOR RODS SHOULD BE AS SHOWN AND CALLED FOR, INCLUDING PROJECTION FROM CONCRETE, DIAMETER AND QUANTITY.

11. THE EMBEDMENT OF THE ANCHOR RODS IN THE CONCRETE AND CONFIRMING ADEQUACY OF ANCHOR ROD EDGE DISTANCE IS THE RESPONSIBILITY OF THE FOUNDATION DESIGNER. THE FRAME REACTIONS ARE CONSIDERED THE MINIMUM LOADS TO BE DEVELOPED.

12. ALL ANCHOR RODS SHALL BE ASTM F1554 GRADE 36 OR EQUAL IN ORDER TO CONFORM TO THE METAL BUILDING SUPPLIER'S DESIGN ASSUMPTIONS BASED ON THE ALLOWABLE STRESSES GIVEN IN THE AISC MANUAL OF STEEL CONSTRUCTION.

13. ANCHOR ROD DIAMETERS FOR THE PRIMARY FRAMING AND ENDWALL FRAMING ARE DENOTED AT RESPECTIVE BASE PLATE DETAILS OR ON THE ANCHOR BOLT PLAN. ANCHOR RODS FOR FRAMED OPENINGS SHALL BE 1/2 INCH DIAMETER UNLESS OTHERWISE NOTED.

BASIC MATERIAL SPECIFICATIONS

PRIMARY FRAMING STEEL

STEEL FOR MILL-ROLLED STRUCTURAL SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 36, ASTM A 572 GRADE 50 OR 55, OR ASTM A 992.

STEEL FOR ALL BUILT-UP SECTIONS SHALL CONFORM TO ONE OR MORE OF THE FOLLOWING

- A. ASTM A 1011 SS. GRADE 55
- B. ASTM A 1011 HSLAS, GRADE 55, CLASS 1
- ASTM A 572 GRADE 55
- D. ASTM A 529 GRADE 55

STEEL FOR ENDWALL "C" SECTIONS SHALL CONFORM TO ASTM A 1011 SS, GRADE 55, OR HSLAS, GRADE 55, CLASS 1

STEEL FOR ROUND PIPE SECTIONS SHALL CONFORM TO ASTM A 500 GRADE B, 42 KSI.

SECONDARY FRAMING STEEL

STEEL USED TO FORM PURLINS, GIRTS, EAVE STRUTS AND "C" SECTIONS SHALL CONFORM TO ASTM A1011 SS, GRADE 55, OR HSLAS GRADE 55, CLASS 1, OR IF GALVANIZED SHALL CONFORM TO ASTM A653 SS, GRADE 55, G90 OR HSLAS, GRADE 55, CLASS 1, G90.

ROOF AND WALL PANEL MATERIAL

EXTERIOR PANELS SHALL CONFORM TO ONE OF THE FOLLOWING

PANEL MATERIAL SHALL BE ALUMINUM-ZINC ALLOY-COATED STEEL CONFORMING TO THE REQUIREMENTS OF ASTM A 792 SS, GRADE 80.

MATERIAL MAY BE EITHER 26 OR 24 GAGE.

PANEL MATERIAL SHALL BE ALUMINUM-ZINC ALLOY-COATED STEEL CONFORMING TO THE REQUIREMENTS OF ASTM A 792 SS, GRADE 50, CLASS 1. MATERIAL MAY BE EITHER 24 OR 22 GAGE.

PANEL MATERIAL SHALL BE ZINC-COATED (GALVANIZED) STEEL. COATING DESIGNATION G90, CONFORMING TO THE REQUIREMENTS OF ASTM A 653 SS, GRADE 80, CLASS 1 OR CLASS 2,

OR HSLAS GRADE 80, MATERIAL MAY BE FITHER 26 OR 24 GAGE.

PANEL MATERIAL SHALL BE ZINC-COATED (GALVANIZED) STEEL, COATING DESIGNATION G90, CONFORMING TO THE REQUIREMENTS OF ASTM A 653 SS, GRADE 50. CLASS 1 OR CLASS 3.

BRACE MATERIALS:

BRACE CABLES: ASTM A 475, 7-STRAND EHS WIRE CABLE BC4 = 1/4" DIA.(7mm) BC5 = 5/16" DIA.(8mm) BC6 = 3/8" DIA.(10mm) BC8 = 1/2" DIA.(13mm) BRACE RODS: ASTM A 572, 50 KSI (UPSET THREADS) BR5 = 5/8" DIA.(16mm) BR6 = 3/4" DIA.(20mm) BR7 = 7/8" DIA.(23mm) BRS = 1" DIA (26mm) OR ASTM A 529, 50 KSI (CUT THREADS) BR9 = 1 1/8" DIA.(29mm) BR10 = 1 1/4" DIA.(32mm) BR11 = 1 3/8" DIA.(35mm) BR12 = 1 1/2" DIA.(39mm)

STRUCTURAL PRIMER NOTE

SHOP COAT PRIMER IS INTENDED TO PROTECT THE STEEL FRAMING DURING TRANSPORTATION TO THE JOBSITE

TOLERANCES AS DEFINED IN THE LATEST EDITION OF THE METAL BUILDING SYSTEMS MANUAL, PUBLISHED BY THE MBMA."

STORAGE IN EXTREME COLD TEMPERATURES OR WINTER SNOW CONDITIONS, INCLUDING TRANSPORTATION ON SALTED OR CHEMICALLY TREATED ROADS WILL ADVERSELY AFFECT THE DURABILITY AND LONGEVITY OF THE PRIMER. THE COAT OF SHOP PRIMER DOES NOT PROVIDE THE UNIFORMITY OF APPEARANCE, OR THE DURABILITY AND CORROSION RESISTANCE OF A FIELD APPLIED FINISH COAT OF PAINT OVER A SHOP PRIMER. MINOR ABRASIONS TO THE SHOP COAT PRIMER CAUSED BY HANDLING, LOADING, SHIPPING, UNLOADING AND ERECTION ARE LINAVOIDABLE AND ARE NOT THE RESPONSIBILITY OF THE METAL BUILDING SUPPLIES. ABC IS NOT RESPONSIBLE FOR THE DETERIORATION OF THE PRIMER OR CORROSION THAT MAY RESULT FROM NEITHER ATMOSPHERIC AND ENVIRONMENTAL CONDITIONS NOR THE COMPATIBILITY OF THE PRIMER TO ANY FIELD APPLIED COATING

"AS A MINIMUM AND SECONDARY TO MORE STRENLIOUS JOB SPECIFIC REQUIREMENTS, PROJECTS LOCATED IN CANADA MUST BE ERECTED WITHIN TOLERANCES AS DEFINED IN SECTION 29.7 OF SPECIFICATION \$16.01 AND PROJECTS IN OTHER LOCATIONS MUST BE ERECTED WITHIN

TEMPORARY SUPPORTS, SUCH AS TEMPORARY GUYS, BRACES, FALSEWORK, CRIBBING OR OTHER ELEMENTS REQUIRED FOR THE ERECTION OPERATION IS TO BE DETERMINED, FURNISHED AND INSTALLED BY THE ERECTOR. THESE SUPPORTS MUST SECURE THE STEEL FRAMING, OR ANY PARTLY ASSEMBLED STEEL FRAMING, AGAINST LOADS COMPARABLE IN INTENSITY TO THOSE FOR WHICH THE STRUCTURE WAS DESIGNED RESULTING FROM WIND AND OR SEISMIC ACTIVITY AND AGAINST THE LOADS RESULTING FROM THE FRECTION OPERATION.

ERECTOR NOTE

FIELD WORK (TRIMMING, DRILLING, WELDING, ETC.) MAY BE REQ'D FOR CERTAIN CONDITIONS. ABC WILL NOT BE LIABLE FOR ADDITIONAL ERECTION COSTS DUE TO THIS WORK. CONDITIONS EFFECTED MAY INCLUDE (BUT ARE NOT LIMITED TO): ALL SHEETING PANELS LESS THAN 3'0 IN LENGTH WILL HAVE TO BE FIELD CUT FROM PANELS PROVIDED AS NOTED ON ERECTION DWGS, SOME PORTAL FRAME KNEE BRACES REQUIRE FIELD WELDING OR DRILLING FOR CONNECTION AT RAFTER, FLUSH GIRT/PURLIN CONDITIONS MAY NEED TO BE SLOTTED TO ACCOMMODATE X-BRACING, "KICKER" BRACES AT OPEN ENDWALLS MAY REQUIRE FIELD DRILLED HOLES AT CONNECTION TO PURLINS, ANGLE X-BRACING MAY REQUIRE FIELD WELDING AT THE COLUMN BASE, ALL JOBS WITH JOISTS WILL LIKELY REQUIRE SOME FIELD WELDING (REGARDLESS OF BOLTED CONNECTIONS)

CANOPY BY OTHERS VERTICAL SUPPORT FOR CANOPY BY OTHERS AT COLUMNS FRAME LINE 1, H~K, 1-2 PROVIDE EXTRA CEE SECTIONS PER CUSTOMER REQUEST. SEE E-09 AND E-23 FOR SIZES

MEZZANNINE DECKING BY OTHERS

NOTE FOR CUSTOMER: DECK AT EACH SIDEWALL MUST BE CAPABLE OF TRANSFERRING 6.4 KIPS UNFACTORED SEISMIC LONGITUDINA FORCE INTO JOISTS BUILDER ADVISE TO HAVE DECK WITHSTAND 2'-8" SPANS

ABC - ATLANTIC DIVISION 6115 COCA COLA BLVD. COLUMBUS, GA 31909 PHONE: (706) 562-8020 FAX: (706)562-8017

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ABC - SOUTH DIVISION

2260 TENAYA DRIVE MODESTO, CA 95354 PHONE: (209) 236-0580 FAX: (209) 236-0588

THIS IS TO CERTIFY THAT THE METAL BUILDING COMPONENTS FURNISHED BY AMERICAN BUILDINGS COMPANY FOR THE REFERENCED BUILDING HAVE BEEN DESIGNED IN OUR COLUMBUS, GA OFFICE FOR FABRICATION IN OUR LA CROSSE, VA

IN ADDITION TO THE DEAD LOAD (D) OF THE BUILDING COMPONENTS, THE MEMBERS ARE DESIGNED ON THE FOLLOWING

COLLATERAL LOAD (C)

3 psf On Roof Members 3 psf On Supporting Frames

ROOF LIVE LOAD (Lr.

20 psf on Roof Members With Reduction On Supporting Frames As Permitted By Code

SNOW LOAD (S) 10.5 psf Roof Snow Load

Roof Exposure Condition = Partially Exposed

Thermal Condition = All structures that do not otherwise qualify as either "Structures kept just above freezing and others" or "Unheated structures and structures intentionally kept below freezing 15 psf Ground Snow Load

hermal Factor = 1.0

Snow Exposure Factor = 1.0

Snow Importance Factor = 1.0

WIND LOAD (W) Exposure (Surface Roughness) Category = B

95 mph Basic Wind Speed (3-second gust)
Enclosure Classification = Enclosed Buildings
Internal Pressure Coefficients = +0.18 and -0.18

Wind Importance Factor = 1.0

Design Pressure for Wall Components and Cladding = +14.86 psf and -19.81 psf

SEISMIC LOAD (E)
Equivalent Lateral Force Procedure
22.9 %g Seismic Mapped Short Period Acceleration
8.6 %g Seismic Mapped 1 Sec Period Acceleration
Site Classification = D
Seismic Importance Factor = 1.0
Seismic Importance Factor = 1.0 Seismic Design Category = C Seismic Design Short Period Acceleration, Sds = 0.244g Seismic Design 1 Sec Period Acceleration, Sd1 = 0.138g
Seismic Design 1 Sec Period Acceleration, Sd1 = 0.138g
Transverse Direction OCBF (X-Bracing)
Base Shear, V = pCsW p=1.00 Cs=Sds/ (R/I)=0.0814 R=3<3.25
Transverse Direction OMF (Rigid Frames) Base Shear, V = pCsW p=1.00 Cs=Sds/ (R/I)=0.0814 R=3<3.5

Longitudinal Direction OCBF (X-Bracing)
Base Shear, V = pCsW p=1.00 Cs=Sds/ (R/I)=0.0814 R=3<3.25

Classification of Building = II. All buildings and other structures except those listed in Categories I, III, and

 ROOF DESIGN IS BASED ON THE LARGER OF LIVE LOAD OR ROOF SNOW LOAD.
 ALL WELDING MUST BE PERFORMED BY AWS QUALIFIED WELDERS FOR THE WELDING PROCESSES AND POSITIONS TO BE USED. ALL WELDING AND WELD PREP MUST BE COMPLETED AND VISUALLY INSPECTED TO AWS ACCEPTANCE CRITERIA (TABLE 6.1) IN ACCORDANCE WITH THE APPLICABLE AWS STANDARD. WELD ELECTRODES USED FOR ALL FIELD WELD. PROCESSES MUST BE SELECTED FROM TABLE 3.1 IN AWS D1.1 FOR GROUP II MATERIAL GREATER THAN OR EQUAL 0.125" THICK OR TABLE 1.2 IN AWS D1.3 FOR MATERIAL LESS THAN 0.125" THICK AND ALL FILLER MATERIAL MUST HAVE A Fu OF 70 KSI.

AMERICAN BUILDINGS COMPANY SERVICEABILITY STANDARDS (2006 MBMA MANUAL CRITERIA) WILL BE USED FOR DESIGN AND FABRICATION OF YOUR ORDER.

THE ABOVE DESIGN LOADS ARE APPLIED IN ACCORDANCE WITH THE 2012 NORTH CAROLINA STATE BUILDING CODE. THE DESIGN IS IN GENERAL ACCORDANCE WITH 2005 AISC 360-05 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS AND 2007 AISI NASPEC NORTH AMERICAN COLD-FORMED STEEL SPECIFICATION.

HIS CERTIFICATION IS LIMITED TO THE STRUCTURAL DESIGN OF THE FRAMING AND COVERING PARTS MANUFACTURED THIS CERTIFICATION IS LIMITED TO THE STRUCT UPAIL DESIGN OF THE FRAMING AND COVERING PARTS MANUFACTURED BY AMERICAN BUILDINGS COMPANY. ACCESSORY ITEMS SUCH AS DOORS, WINDOWS, LOUVERS, TRANSLUCENT PANELS AND VENTILATORS ARE NOT INCLUDED. ALSO EXCLUDED, ARE OTHER PARTS OF THE PROJECT NOT PROVIDED BY AMERICAN BUILDINGS COMPANY SUCH AS FOUNDATIONS, MASONRY WALLS, MECHANICAL EQUIPMENT AND THE ERECTION AND INSPECTION OF THE BUILDING. THE BUILDING SHALL BE ERECTED ON A PROPERLY DESIGNED FOUNDATION IN ACCORDANCE WITH AMERICAN BUILDINGS COMPANY'S "GENERAL ERECTION GUIDE" AND THE JOB ERECTION DRAWINGS. THE DRAWINGS LISTED ON THIS SHEET SHALL REMAIN WITH AND BECOME PART OF THIS CERTIFICATION.

MEZZANNINE DESIGN LOADS: ASSUMED DEAD LOAD: 20 PSF LIVE LOAD: 135 PSF (10 PSF PARTITION LOADS) COLLATERAL LOAD: 3 PSF

USER REQUESTED DEFIECTION CRITERIA RIGID FRAME - H/100 (HORIZONTAL)

REV. SHEET NO. NUMBER STATUS DATE FOR APPROVAL ONLY 08/03/17 C-1 ~ C-2 2 FOR APPROVAL ONLY 08/03/17 AB-1 ~ AB-3 2 F-01 ~ F-15 FOR APPROVAL ONLY 08/03/17 2 SED-000 ~ SED-020 FOR APPROVAL ONLY 08/03/17 2

THE REGISTERED PROFESSIONAL ENGINEER WHOSE SEAL APPEARS ON THESE DRAWINGS IS EMPLOYED BY THE MANUFACTURER AND DOES NOT SERVE AS OR REPRESENT THE PROJECT ENGINEER OF RECORD AND SHALL NOT BE CONSIDERED AS SUCH.

THIS PROJECT IS DESIGNED AS AN ENCLOSED BUILDING. ACCESSORIES (DOORS, WINDOWS, ETC.) BY OTHERS MUST BE DESIGNED AS "COMPONENTS AND CLADDING" IN ACCORDANCE WITH THE SPECIFIC WIND PROVISIONS OF THE REFERENCED BUILDING CODE.

THE METAL BUILDING MANUFACTURER DOES NOT CONSIDER VIBRATION ANALYSIS OF MEZZANINE SYSTEMS UNLESS EXPLICITLY REQUESTED AND SPECIFIED IN THE METAL BUILDING MANUFACTURER QUOTE AND ORDER DOCUMENTS. ANY NEED FOR VIBRATION ANALYSIS SHOULD BE CONSIDERED AND SPECIFIED BY THE ENGINEER OF RECORD FOR THE PROJECT

NOT FOR CONSTRUCTION

CAROLINA DIESEL TRUCKS 62 PROGRESS DRIVE FUQUAY VARINA, NC 27526 THOMAS ANDREWS



MBMA

FOR APPROVAL ONLY

A17B0157A

SHEET

RELEASE / REVISION DATE DWN:/CKD: ENGR DATE DWN: / CKD: | ENGR| RELEASE / REVISION 2 REVISED APPROVALS RCC / RCC JV 06/14/201 HRH / JV 08/03/201 1 REVISED APPROVAL 0 FOR APPROVAL ONLY RCC / RCC JV 06/12/2017

ROOF PANELS TYPE: S3 GAGE: 24 COLOR: ALCT PAINT WARRANTY: NO WEATHERTIGHTNESS WARRANTY: NO UL 90 CERTIFICATION: NO FACTORY MUTUAL CERTIFICATION: NO WALL PANELS TYPE: A3P GAGE: 26 COLOR: FXGYSMP BASE: ANGLE W/ PAINT WARRANTY: YES STANDARD GUTTER WITH DOWNSPOUTS 46.33 FT O.C. (MAX) RAKE TRIM: POWHSMP GUTTER OR EAVE: POWHSMP DOWNSPOUTS: POWHSMP FRAMED OPENINGS: POWHSMP CORNER: FXGYSMP BASE TRIM: BRSLSMP MISCELLANEOUS: PRIMER COLORS PRIMARY: RED SECONDARY: RED ROOF FASTENERS STANDING SEAM III STRUCTURAL: #14X1 SDRF STITCH: #14X1 SDRF WALL FASTENERS ARCHITECTUAL III STRUCTURAL: #12X1 1/4 SDHH STITCH: #14X3/4 SDHH TRIM FASTENERS #14X3/4 SDHH INSULATION ROOF: BY OTHERS THICK: 4.0 WIDTH: NA FACE: NA COLOR: NA WALLS: BY OTHERS THICK: 4.0 WIDTH: NA FACE: NA COLOR: NA THERMAL BLOCKS INCLUDED BY METAL BUILDING SUPPLIER (1" THICK ONLY)

QTY SIZE TYPE SWING LOCKSET CLOSER COLOR LINER TRIM LINER TRIM COLOR 6070 S RHO SRP NO WHITE NO 2 3070 S RHO SRP WHITE NO NO FRAMED OPENINGS

SILL HEIGHT FR WRAP TRIM LINER TRIM LINER TRIM COLOR

NO

NO

NO

YES

YES

YES

RECENT PRODUCT REVISIONS

THE FOLLOWING NOTES MAY OR MAY NOT PERTAIN TO THIS SPECIFIC JOB BUT ARE NOTEWORTHY PRODUCT CHANGES.

1. THINK SAFETY!

NOT FOR CONSTRUCTION

CAROLINA DIESEL TRUCKS 62 PROGRESS DRIVE FUQUAY VARINA, NC 27526 THOMAS ANDREWS

AMERICAN BUILDINGS A NUCCE COMPAN MBMA

FOR APPROVAL ONLY SOFTWARE VERSIONS DESIGN: MSA 47.3 BIM: v20.6

JOB NUMBER:

SHEET: A17B0157A C-2

| DWN: / CKD: | ENGR | DATE | RCC / RCC | JV | 06/14/2017 RELEASE / REVISION DWN:/CKD: ENGR DATE NO RELEASE / REVISION NO RELEASE / RI
REVISED APPROVALS HRH / JV 08/03/2017 1 REVISED APPROVAL RCC / RCC JV 06/12/2017 0 FOR APPROVAL ONLY

QTY WIDTH

16'

20'

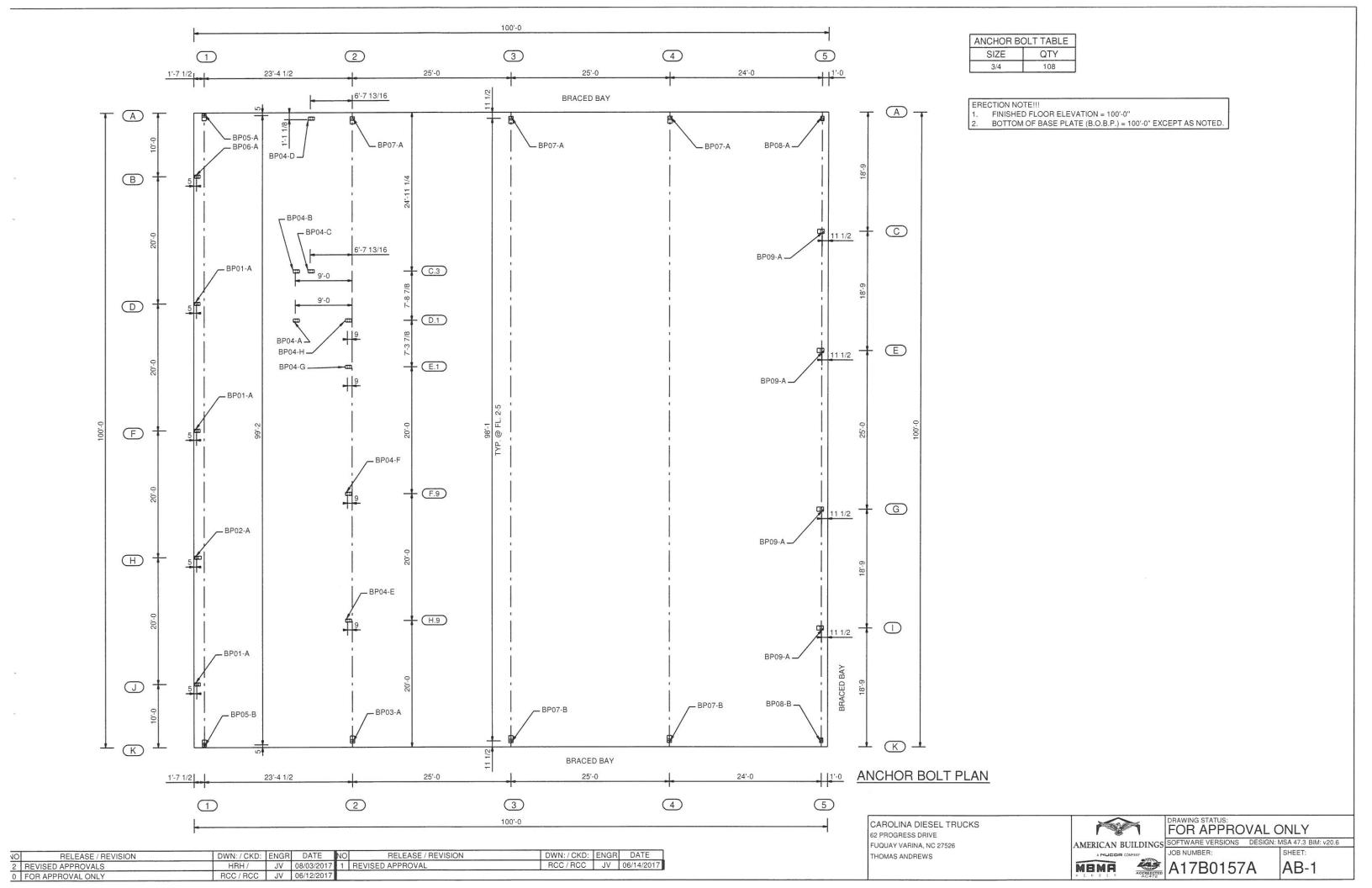
12'

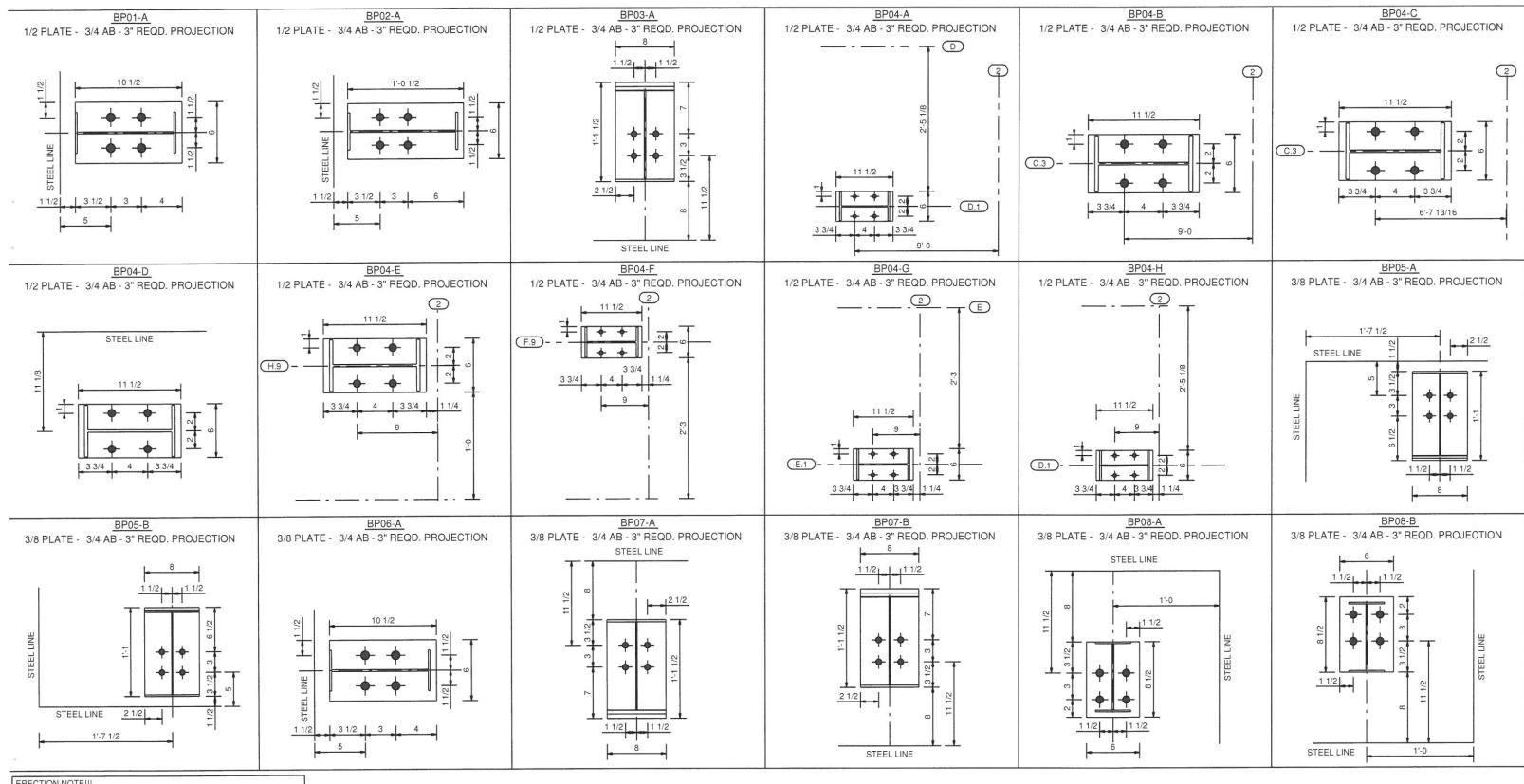
HEIGHT

8 '

18'

91





ERECTION NOTE!!!

FINISHED FLOOR ELEVATION = 100'-0"

ERECTION NOTE!!!

ALL ANCHOR RODS SHALL HAVE A 3 INCH PROJECTION (UNLESS NOTED) ABOVE THE BOTTOM OF THE COLUMN BASE PLATES, EXCEPT 1/2 INCH DIAMETER ANCHOR RODS LOCATED AT DOORS WHICH SHALL HAVE PROJECTION OF 1 INCH.

ALL ANCHOR RODS SHALL HAVE A MINIMUM THREAD LENGTH OF 1/4 INCH LESS THAN THE PROJECTION. THE PROJECTIONS SPECIFIED PROVIDE FOR A SINGLE BASE PLATE THICKNESS, AND APPLICATION OF ONE 3/16 INCH WASHER, AND ONE HEAVY HEX NUT. IN THE INSTALLED POSITION, THE TOP OF THE ANCHOR BOLT MUST BE FLUSH WITH OR ABOVE THE TOP OF THE NUT.

ADDITIONAL PROJECTION LENGTH MUST BE CONSIDERED AND PROVIDED FOR ITEMS SUCH AS GROUT, DOUBLE NUTS, PLATE WASHERS, LEVELING PLATES, ETC., THAT MAY BE SPECIFIED BY OTHERS.

PROJECTING THREADS SHOULD BE GREASED OR OTHERWISE PROTECTED FROM CORROSION.

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NO RELEASE / REVISION	DWN: / CKD:	ENGR	DATE	NO	RELEASE / REVISION	DWN: / CKD:	ENGR	DATE
2 REVISED APPROVALS	HRH /	JV	08/03/2017	1	REVISED APPROVAL	RCC / RCC	JV	06/14/2017
0 FOR APPROVAL ONLY	RCC / RCC	JV	06/12/2017	П				

CAROLINA DIESEL TRUCKS 62 PROGRESS DRIVE FUQUAY VARINA, NC 27526 THOMAS ANDREWS



## DRAWING STATUS FOR APPROVAL ONLY

SOFTWARE VERSIONS DESIGN: MSA 47.3 BIM: v20.6 SHEET:

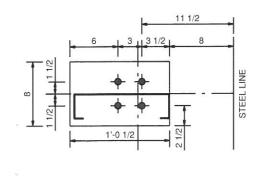
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AB-2a

BOTTOM OF BASE PLATE (B.O.B.P.) = 100'-0" EXCEPT AS NOTED.

### BP09-A

3/8 PLATE - 3/4 AB - 3" REQD. PROJECTION



## **ERECTION NOTE!!!**

FINISHED FLOOR ELEVATION = 100'-0"

BOTTOM OF BASE PLATE (B.O.B.P.) = 100'-0" EXCEPT AS NOTED.

## ERECTION NOTE!!!

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PROJECTINGE HELSE SALIGNION BE GREASED OR OTHERWISEOR TO TENTRO FROM FOR THE OR DWN:/CKD: ENGR DATE HRH / JV 08/03/2017 1 REVISED APPROVAL RCC / RCC JV 06/12/2017 2 REVISED APPROVALS 0 FOR APPROVAL ONLY

CAROLINA DIESEL TRUCKS 62 PROGRESS DRIVE FUQUAY VARINA, NC 27526 THOMAS ANDREWS



MBMA

DRAWING STATUS: FOR APPROVAL ONLY

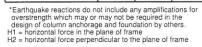
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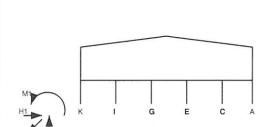
SHEET:



# **REACTION SCHEMATICS**

LOADING CONDITION	FRAME	LINE 1			
CONDITION	K		A		
	(kips)	H1 (kips)	(kips)	H1 (kips)	
D	+5.4	+2.4	+5.2	-2.4	
С	+2.2	+1.6	+2.2	-1.6	
L	+9.4	+6.4	+7.9	-6.4	
MEZZ LL	+8.4	+0.2	+8.4	-0.2	
S	+11.1	+5.5	+7.1	-5.5	
W	-12.6	-8.7	-11.4	+8.8	
E*	-1.6 to +1.6	-6.9 to +6.9	-1.6 to +1.6	-6.9 to +6.9	





LOADING	FRAME LINE 2												
CONDITION	H	(		Α		G,I	Е	С					
	(kips)	H1 (kips)	(kips)	H1 (kips)	H2 (kips)	V (kips)	(kips)	(kips)					
D	+12.5	+3.8	+6.1	-3.8	NA	+6.6	+6.9	+4.0					
С	+4.4	+2.8	+3.6	-2.8	NA	+0.8	+0.8	+0.4					
L	+17.0	+11.1	+14.4	-11.1	NA	NA	NA	NA					
MEZZ LL	+33.6	+0.5	+3.3	-0.5	NA	+33.8	+35.1	+18.2					
S	+20.3	+9.4	+12.9	-9.4	NA	NA	NA	NA					
W	-16.5 to +0.5	-10.5 to +1.8	-14.4 to +0.9	-1.9 to +10.7	NA	NA	NA	NA					
W (at X braced bays)	NA	NA	-20.0 to +0.9	-1.9 to +10.7	-6.7 to +6.7	NA	NA	NA					
E*	-1.8 to +1.8	-7.4 to +7.4	-1.8 to +1.8	-7.3 to +7.3	NA	NA	NA	NA					
E* (at X braced bays)	NA	NA	-5.8 to +5.8	-7.3 to +7.3	-10.0 to +10.0	NA	NA	NA					

^{*}Earthquake reactions do not include any amplifications for overstrength which may or may not be required in the design of column anchorage and foundation by others. H1 = horizontal force in the plane of frame H2 = horizontal force perpendicular to the plane of frame

LOADING	FRAME	LINES 3-	4			
CONDITION		K			Α	
	V (kips)	H1 (kips)	H2 (kips)	V (kips)	H1 (kips)	H2 (kips)
D	+5.8	+3.8	NA	+5.8	-3.8	NA
С	+3.7	+3.0	NA	+3.8	-3.0	NA
L	+15.0	+12.0	NA	+15.0	-12.0	NA
S	+13.5	+10.5	NA	+13.5	-10.5	NA
W	-15.0 to +0.9	-11.4 to +1.8	NA	-15.0 to +0.9	-1.8 to +11.4	NA
W (at X braced bays)	-20.5 to +0.9	-11.4 to +1.8	-6.7 to +6.7	-20.5 to +0.9	-1.8 to +11.4	-6.7 to +6.7
E*	-0.4 to +0.4	-0.9 to +0.9	NA	-0.4 to +0.4	-0.9 to +0.9	NA
E* (at X braced bays)	-5.8 to +5.8	-0.9 to +0.9	-10.0 to +10.0	-5.8 to +5.8	-0.9 to +0.9	-10.0 to +10.0

*Earthquake reactions do not include any amplifications for overstrength which may or may not be required in the design of column anchorage and foundation by others. H1 = horizontal force in the plane of frame H2 = horizontal force perpendicular to the plane of frame

	П	$\top$	$\top$	$\top$	$\overline{}$
Mi					
H1 V	КЈ	Н	F	D	ВА

LOADING CONDITION	CURTAI	CURTAIN WALL AT FRAME LINE 1											
CONDITION	J		H	1	F		D		Е	3			
	(kips)	H2 (kips)	(kips)	H2 (kips)	(kips)	H2 (kips)	(kips)	H2 (kips)	(kips)	H2 (kips)			
D	+5.4	NA	+7.2	NA	+6.9	NA	+6.9	NA	+5.2	N			
W	-0.8 to +1.3	-2.2 to +2.0	-1.0 to +1.7	-3.2 to +2.9	+0.3	-3.2 to +2.9	+0.3	-3.0 to +2.7	+0.3	-2. tr +1.5			
L	+1.8	+0.2	+2.3	+0.3	+0.3	NA	+0.3	NA	+0.3	N			
S	+4.6	+0.5	+6.1	+0.6	+0.3	NA	+0.3	NA	+0.3	N			
С	+0.8	NA	+1.1	NA	+0.8	NA	+0.8	NA	+0.6	N			
MEZZ LL	+25.6	NA	+34.1	NA	+34.1	NA	+34.0	NA	+25.6	N/			

*Earthquake reactions do not include any amplifications for overstrength which may or may not be required in the design of column anchorage and foundation by others. H1 = horizontal force in the plane of frame H2 = horizontal force perpendicular to the plane of frame

LOADING CONDITION	FRAME	FRAME LINE 5												
CONDITION	k	К			1		G,E		С					
	(kips)	H1 (kips)	(kips)	H1 (kips)	H2 (kips)	(kips)	H2 (kips)	V (kips)	H2 (kips)	(kips)				
D	+0.5	NA	+0.9	NA	NA	+1.1	NA	+0.9	NA	+0.5				
С	+0.3	NA	+0.8	NA	NA	+0.9	NA	+0.8	NA	+0.3				
L	+2.0	NA	-0.3 to +5.6	NA	NA	+6.5	NA	-0.3 to +5.6	NA	+2.0				
S	+1.2	NA	+2.9	NA	NA	+5.0	NA	+2.9	NA	+1.2				
W	-3.3 to +3.3	-2.3 to +2.3	-4.5 to +3.3	-2.3 to +2.3	-2.3 to +2.6	-4.8 to +0.2	-2.9 to +3.3	-4.5 to +0.1	-2.3 to +2.6	-1.4 to +0.2				
E*	-1.8 to +1.8	-1.3 to +1.3	-1.8 to +1.8	-1.3 to +1.3	NA	+0.2	NA	+0.1	NA	+0.2				

*Earthquake reactions do not include any amplifications for overstrength which may or may not be required in the design of column anchorage and foundation by others. H1 = horizontal force in the plane of frame H2 = horizontal force perpendicular to the plane of frame

٢			7
M1		c	

LOADING CONDITION	FRAME LINE 1.8					
CONDITION	С	А				
	(kips)	(kips)				
D	+2.9	+2.9				
С	+0.3	+0.3				
MEZZ LL	+12.5	+12.5				

*Earthquake reactions do not include any amplifications for overstrength which may or may not be required in the design of column anchorage and foundation by others. H1 = horizontal force in the plane of frame H2 = horizontal force perpendicular to the plane of frame

## **NOT FOR CONSTRUCTION**

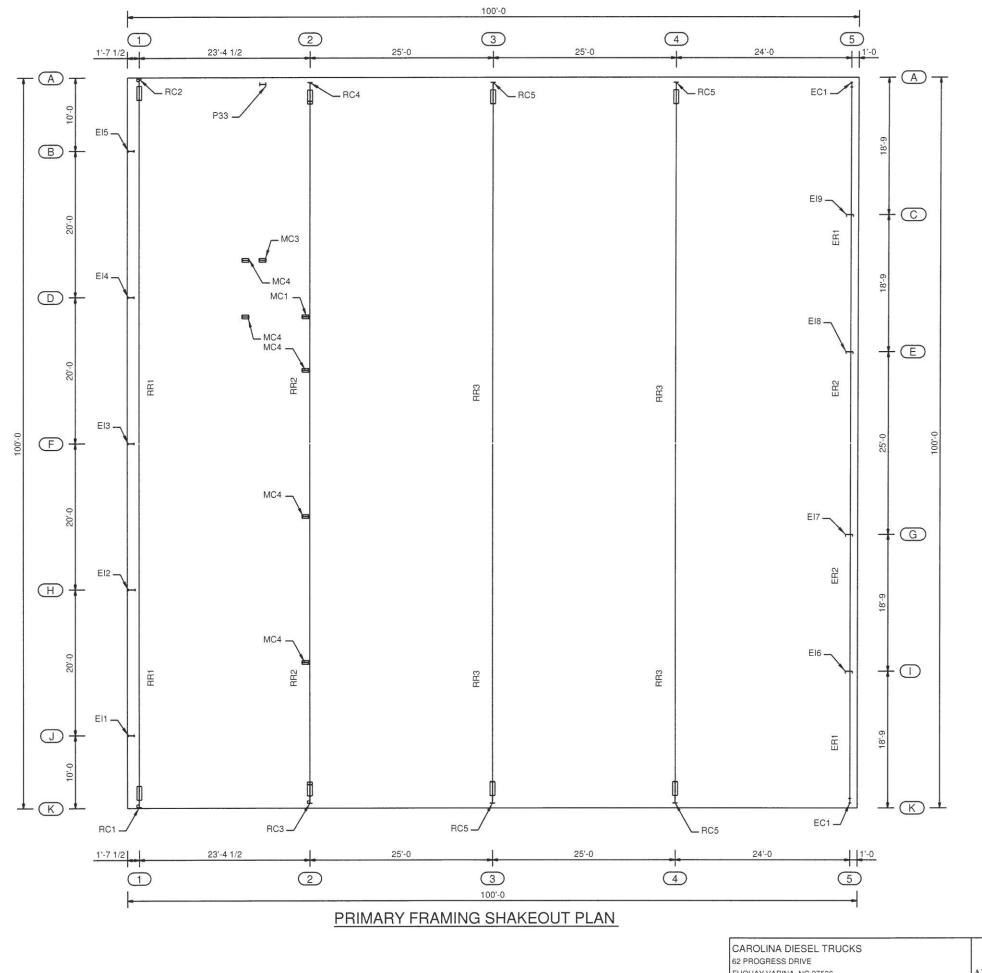
CAROLINA DIESEL TRUCKS 62 PROGRESS DRIVE FUQUAY VARINA, NC 27526 THOMAS ANDREWS



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JOB NUMBER: SHEET: A17B0157A AB-3

VC	RELEASE / REVISION	DWN: / CKD:	ENGR	DATE	NO	RELEASE / REVISION	DWN:/CKD:	ENGR	DATE
2	REVISED APPROVALS	HRH /	JV	08/03/2017	1	REVISED APPROVAL	RCC / RCC	JV	06/14/2017
0	FOR APPROVAL ONLY	RCC / RCC	JV	06/12/2017					



DWN:/CKD: ENGR DATE NO RELEASE / RE
2 REVISED APPROVALS
0 FOR APPROVAL ONLY DWN:/CKD: ENGR DATE NO RELEASE / REVISION RELEASE / REVISION HRH / JV 08/03/2017 1 REVISED APPROVAL RCC / RCC JV 06/12/2017

FUQUAY VARINA, NC 27526 THOMAS ANDREWS

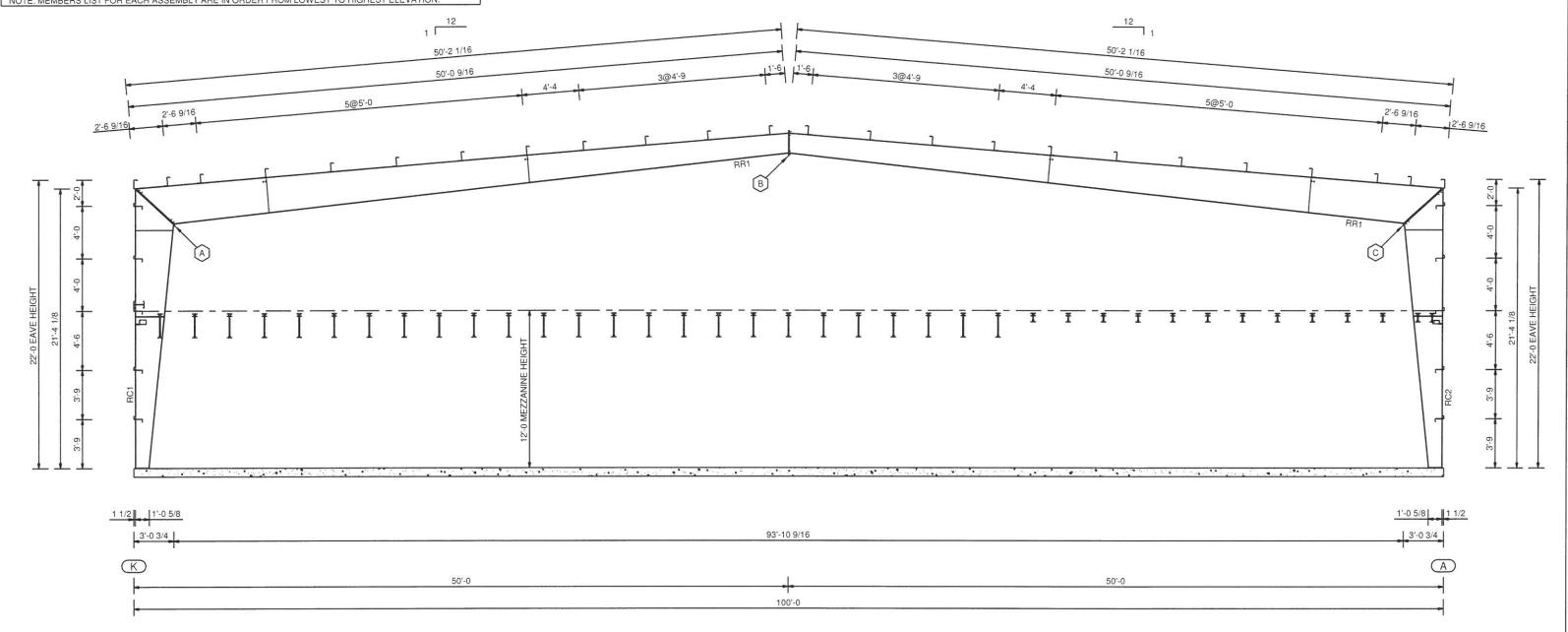


**NOT FOR CONSTRUCTION** PROVAL ONLY AMERICAN BUILDINGS SOFTWARE VERSIONS DESIGN: MSA 47.3 BIM: v20.6

E-01

		MEN	IBER SIZE	TABLE		
ASSEMBLY NAME	OUTSIDE FLANGE	WEB THICK	WEB LENGTH	STARTING WEB DEPTH	ENDING WEB DEPTH	INSIDE FLANGE
RC1	8" X 1/4 X 21'-2 13/16	8GA	18'-1 9/16	1'-0 1/16	2'-10 1/8	8" X 5/16 X 18'-7 13/16
		8GA	3'-1 5/16	2'-10 1/8	2'-10 11/16	
RR1	6" X 1/4 X 49'-11 1/4	8GA	9'-11 5/8	2'-10 3/4	2'-8 1/8	6" X 5/16 X 7'-3 7/16
		8GA	20'-0	2'-8 1/8	2'-0 7/8	6" X 1/4 X 39'-10 5/16
		10GA	19'-11 5/8	2'-0 7/8	1'-5 3/4	
RC2	8" X 1/4 X 21'-2 13/16	8GA	18'-1 9/16	1'-0 1/16	2'-10 1/8	8" X 5/16 X 18'-7 13/16
		8GA	3'-1 5/16	2'-10 1/8	2'-10 11/16	

	SPLICE BOLT TABLE										
SPLICE	BOLTS	CLEAR TO F.F.	PLATE SIZE	PLATE SIZE							
А	(8) 3/4 X 2 3/4 A325T	18'-6 1/2	8" X 1/2	8" X 1/2							
В	(2) 3/4 X 2 3/4 A325T (6) 3/4 X 2 A325T	23'-9 3/16	6" X 3/8	6" X 3/8							
С	(8) 3/4 X 2 3/4 A325T	18'-6 1/2	8" X 1/2	8" X 1/2							



FRAME ID: A17B0157A.01A 06/03/17 12:43

## RIGID FRAME CROSS SECTION AT FL. 1 BLDG 1

### **NOT FOR CONSTRUCTION** FOR APPROVAL ONLY CAROLINA DIESEL TRUCKS 62 PROGRESS DRIVE FUQUAY VARINA, NC 27526

JOB NUMBER:

AMERICAN BUILDINGS SOFTWARE VERSIONS DESIGN: MSA 47.3 BIM: v20.6 SHEET: E-02

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VC	RELEASE / REVISION	DWN: / CKD:	ENGR	DATE	NO	RELEASE / REVISION	DWN:/CKD:	ENGR	DATE
2	REVISED APPROVALS	HRH /	JV	08/03/2017	1	REVISED APPROVAL	RCC / RCC	JV	06/14/2017
0	FOR APPROVAL ONLY	RCC / RCC	JV	06/12/2017		8 282- 18- 28 E- 190 E-			

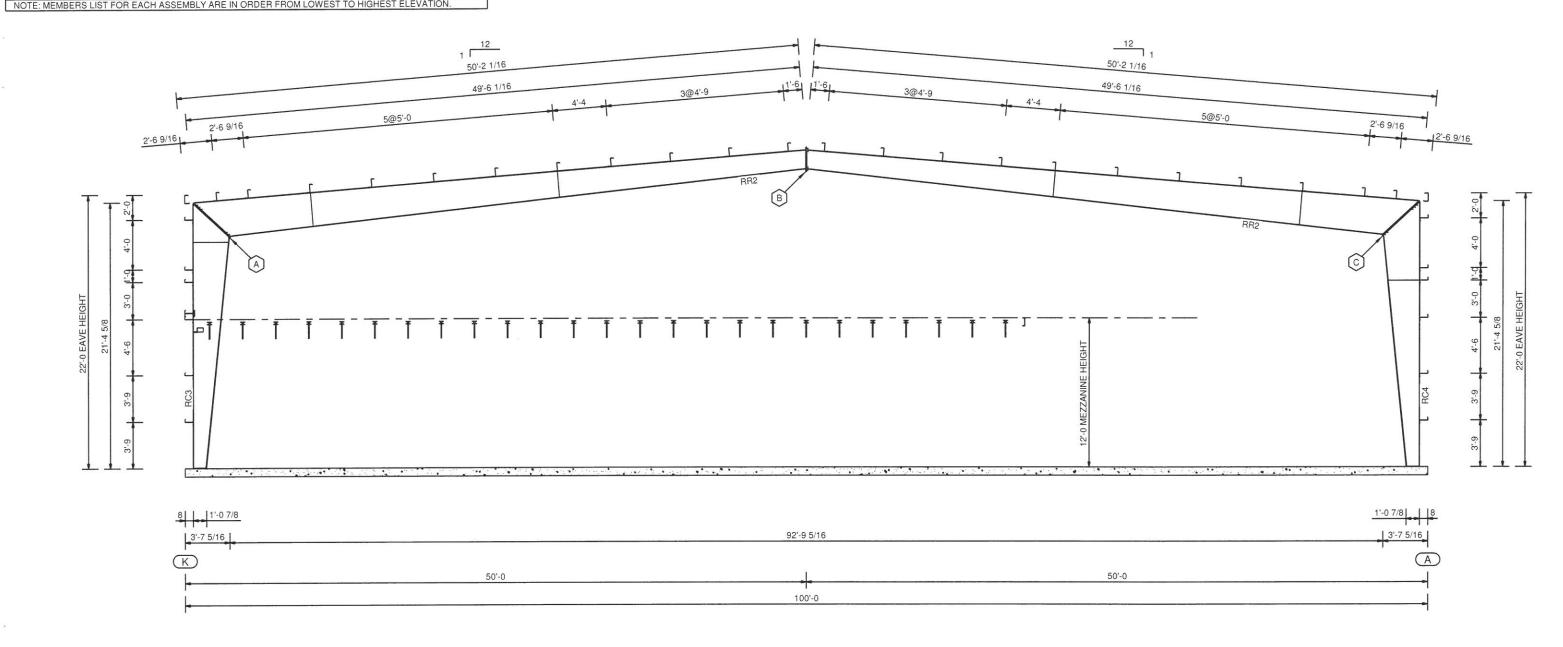
MBMA

THOMAS ANDREWS

A17B0157A

		MEN	MBER SIZE	TABLE		
ASSEMBLY NAME	OUTSIDE FLANGE	WEB THICK	WEB LENGTH	STARTING WEB DEPTH	ENDING WEB DEPTH	INSIDE FLANGE
RC3	8" X 5/16 X 21'-3	7/32	18'-1 7/8	1'-0 1/16	2'-10 1/8	8" X 1/2 X 15'-0 3/8
		7/32	3'-1 1/8	2'-10 1/8	2'-10 11/16	8" X 3/8 X 3'-7 9/16
RR2	8" X 5/16 X 29'-4 7/8	7/32	9'-4 7/8	2'-10 3/4	2'-8 1/4	8" X 3/8 X 6'-8 5/8
	8" X 3/8 X 19'-11 1/2	3/16	19'-11 1/2	2'-8 1/4	2'-1	8" X 5/16 X 39'-10 3/16
		3/16	20'-0	2'-1	1'-5 3/4	
RC4	8" X 5/16 X 21'-3 1/8	8GA	14'-11 5/8	1'-0 1/16	2'-6 1/4	8" X 1/2 X 15'-0 1/2
		7/32	6'-3 1/2	2'-6 1/4	2'-10 11/16	8" X 3/8 X 3'-7 9/16

SPLICE BOLT TABLE										
SPLICE	BOLTS	CLEAR TO F.F.	PLATE SIZE	PLATE SIZE						
Α	(10) 3/4 X 2 3/4 A325T	18'-6 13/16	8" X 5/8	8" X 5/8						
В	(8) 3/4 X 2 3/4 A325T	23'-9	8" X 1/2	8" X 1/2						
С	(10) 3/4 X 2 3/4 A325T	18'-6 13/16	8" X 5/8	8" X 5/8						



FRAME ID: A17B0157A.01B 06/03/17 12:57

RIGID FRAME CROSS SECTION AT FL. 2 BLDG 1

CAROLINA DIESEL TRUCKS 62 PROGRESS DRIVE FUQUAY VARINA, NC 27526 THOMAS ANDREWS

**NOT FOR CONSTRUCTION** DRAWING STATUS:
FOR APPROVAL ONLY AMERICAN BUILDINGS SOFTWARE VERSIONS DESIGN: MSA 47.3 BIM: v20.6

JOB NUMBER: A17B0157A MBMA

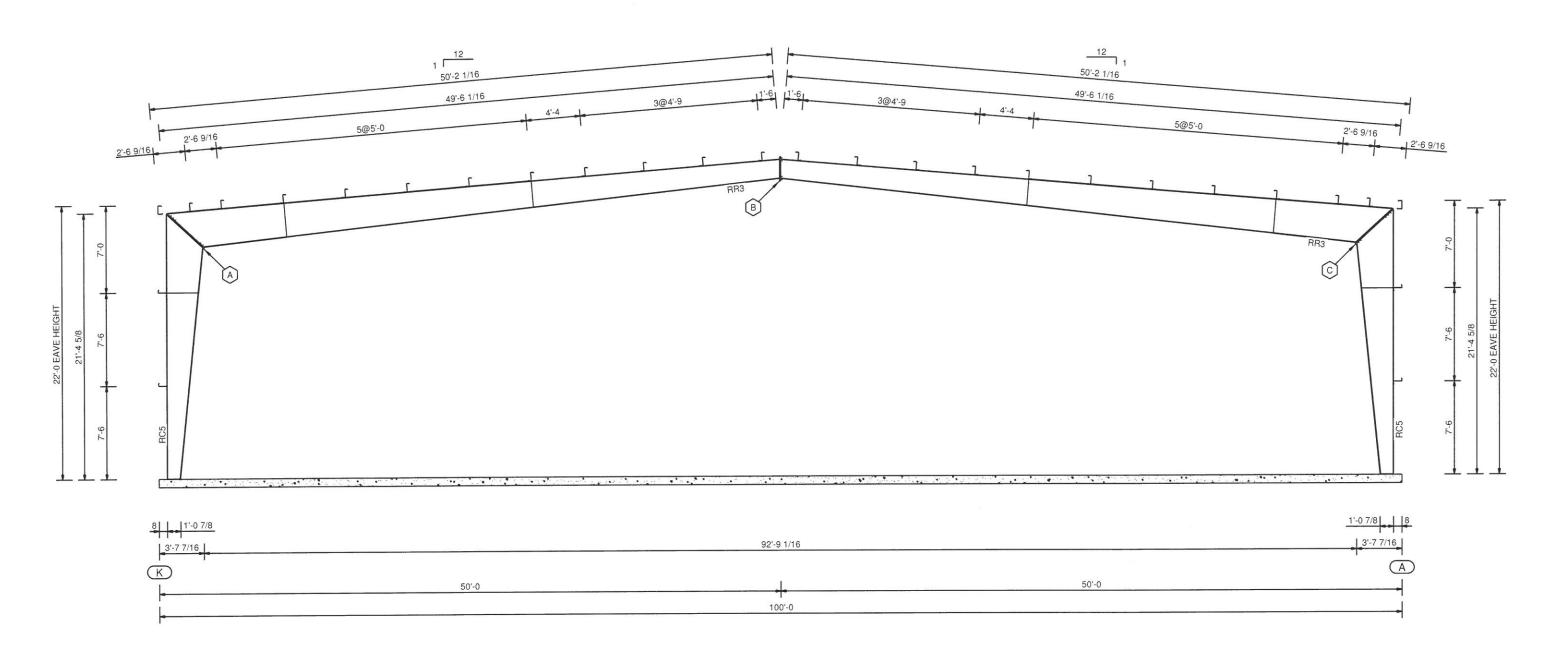
SHEET: E-03

 
 DWN: / CKD:
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 DATE

 RCC / RCC
 JV
 06/14/2017
 DWN:/CKD: ENGR DATE RELEASE / REVISION NO RELEASE / RE
2 REVISED APPROVALS
0 FOR APPROVAL ONLY RELEASE / REVISION 1 REVISED APPROVAL HRH / JV 08/03/2017 RCC / RCC JV 06/12/2017

		MEM	BER SIZE	TABLE		
ASSEMBLY NAME	OUTSIDE FLANGE	WEB THICK	WEB LENGTH	STARTING WEB DEPTH	ENDING WEB DEPTH	INSIDE FLANGE
RR3	6" X 1/2 X 29'-4 11/16	7/32	9'-4 11/16	2'-10 11/16	2'-8 1/4	6" X 1/2 X 6'-8 3/8
	6" X 3/8 X 19'-11 1/2	3/16	19'-11 1/2	2'-8 1/4	2'-1	6" X 3/8 X 39'-10 3/16
		3/16	20'-0	2'-1	1'-5 3/4	
RC5	8" X 5/16 X 21'-3 1/8	8GA	14'-11 5/8	1'-0 1/16	2'-6 1/4	8" X 1/2 X 18'-7 15/16
		7/32	6'-3 1/2	2'-6 1/4	2'-10 11/16	

	SPLICE BOLT TABLE											
SPLICE	BOLTS	CLEAR TO F.F.	PLATE SIZE	PLATE SIZE								
Α	(10) 3/4 X 2 3/4 A325T	18'-6 9/16	8" X 5/8	8" X 5/8								
В	(8) 3/4 X 2 3/4 A325T	23'-8 13/16	6" X 1/2	6" X 1/2								
С	(10) 3/4 X 2 3/4 A325T	18'-6 9/16	8" X 5/8	8" X 5/8								



FRAME ID: A17B0157A.01C 06/03/17 12:59

RIGID FRAME CROSS SECTION AT FL. 3-4 BLDG 1

# **NOT FOR CONSTRUCTION**

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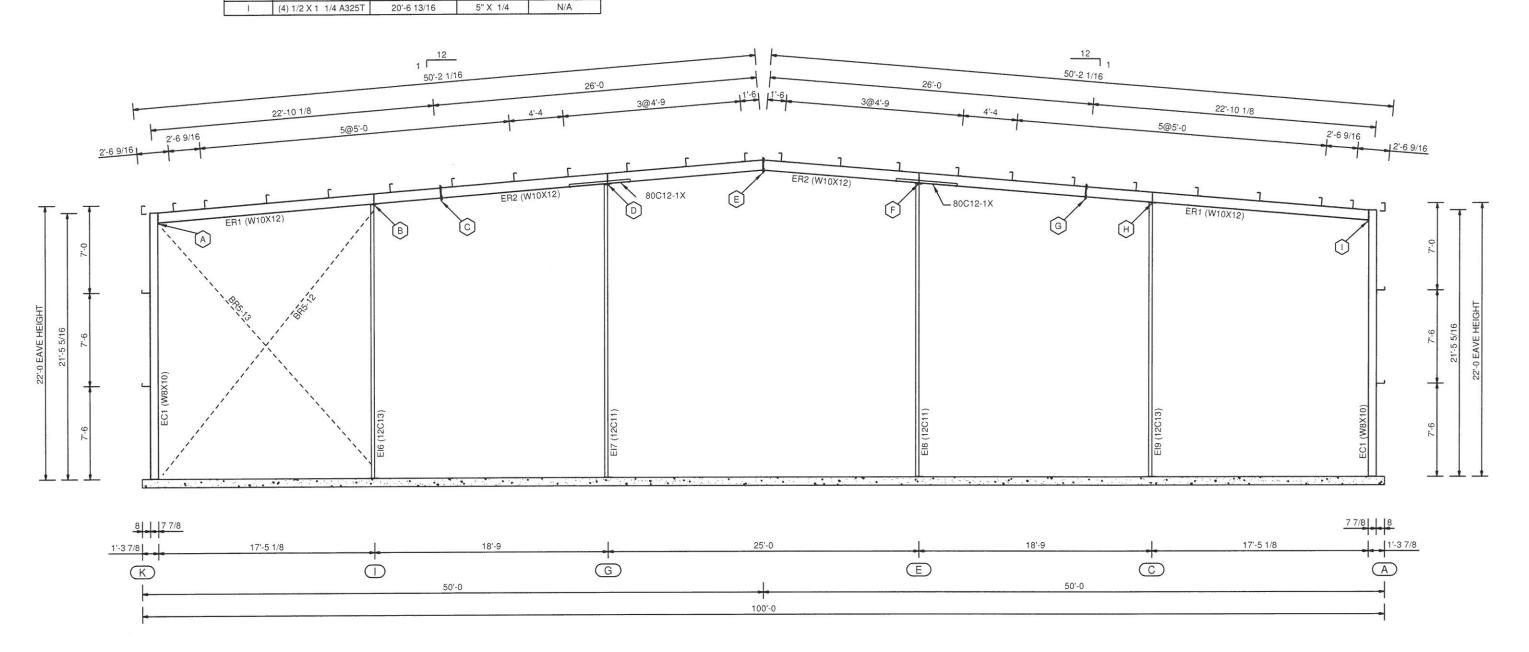
SHEET: JOB NUMBER: A17B0157A E-04

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0	FOR APPROVAL ONLY	RCC / RCC	JV	06/12/2017					

SPLICE BOLT TABLE CLEAR TO F.F. PLATE SIZE PLATE SIZE SPLICE BOLTS (4) 1/2 X 1 1/4 A325T 20'-6 13/16 5" X 1/4 N/A (4) 1/2 X 1 1/4 A325T 22'-0 1/8 8" X 3/8 N/A 22'-3 11/16 6" X 3/8 (8) 3/4 X 2 A325T 6" X 3/8 8" X 3/8 N/A (4) 1/2 X 2 A325T 23'-6 3/4 24'-5 9/16 6" X 3/8 6" X 3/8 (8) 3/4 X 2 A325T 8" X 3/8 N/A (4) 1/2 X 2 A325T 23'-6 3/4 (8) 3/4 X 2 A325T 22'-3 11/16 6" X 3/8 6" X 3/8 22'-0 1/8 (4) 1/2 X 1 1/4 A325T 8" X 3/8 N/A 5" X 1/4 N/A

THIS FRAME MUST NOT BE ERECTED WITHOUT THE PIPE AND/OR GIRT STRUT MEMBERS. REFER TO THE ENDWALL ELEVATION AT THIS FRAME LINE FOR ANY REQUIRED GIRTS.

> Purlin and Girt depth and spacing are subject to change upon final design. Flange braces from the girts and purlins to the columns and rafters are required for structural stability, but are not shown on this drawing for clarity. This drawing shall not be construed as allowing the structure to be erected without flange braces.



## COLUMN & BEAM CROSS SECTION AT FL. 5 BLDG 1

# **NOT FOR CONSTRUCTION**

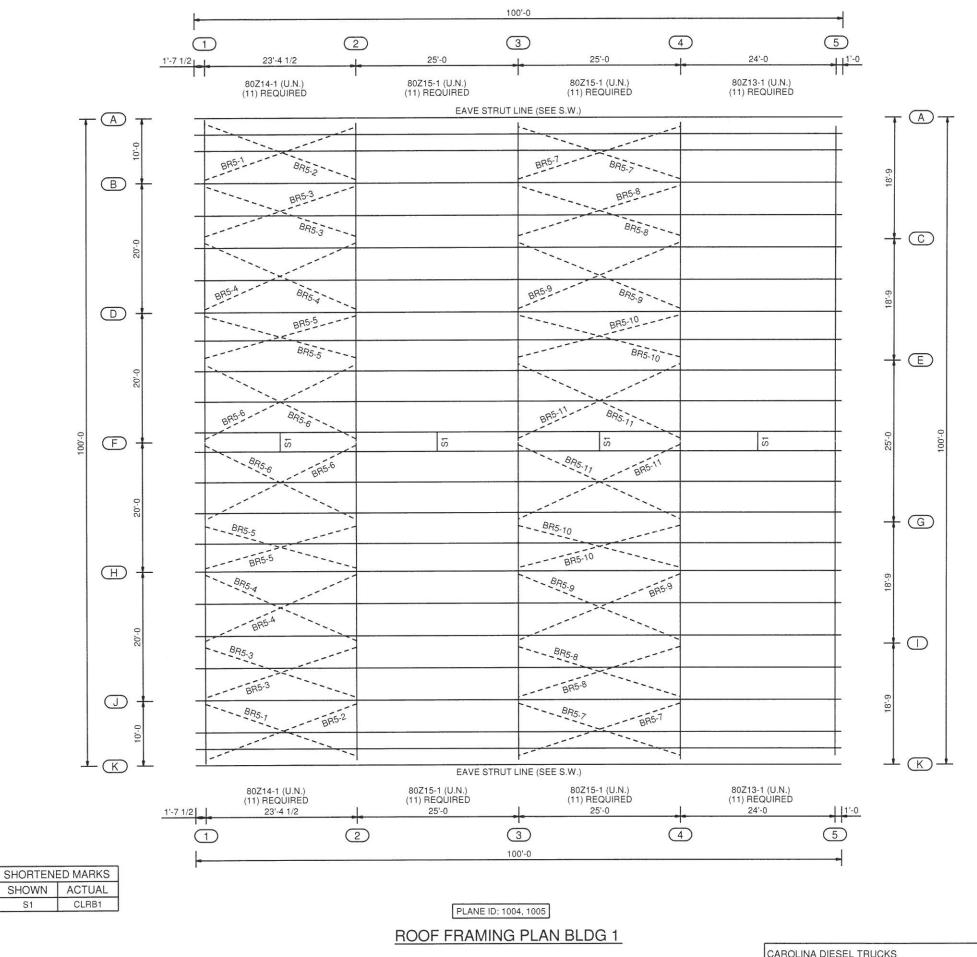
CAROLINA DIESEL TRUCKS 62 PROGRESS DRIVE FUQUAY VARINA, NC 27526 THOMAS ANDREWS



FOR APPROVAL ONLY AMERICAN BUILDINGS SOFTWARE VERSIONS DESIGN: MSA 47.3 BIM: v20.6 JOB NUMBER SHEET: E-05







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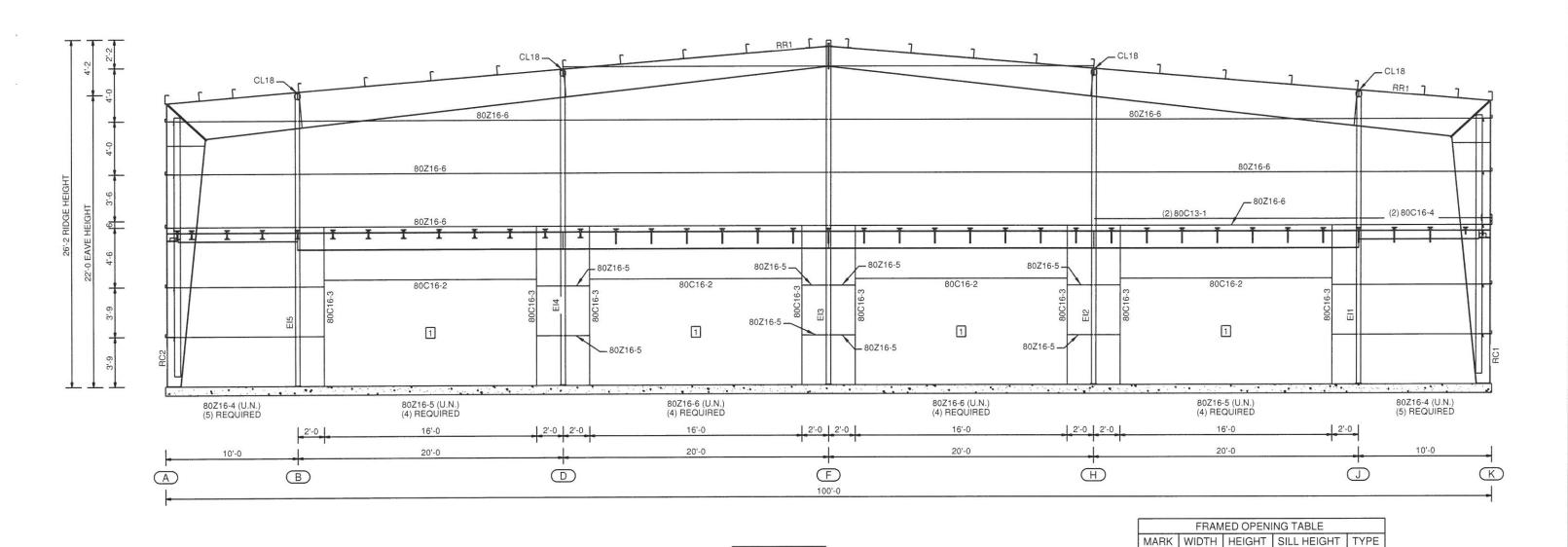
# **NOT FOR CONSTRUCTION** PRAWING STATUS: FOR APPROVAL ONLY

AMERICAN BUILDINGS SOFTWARE VERSIONS DESIGN: MSA 47.3 BIM: v20.6 JOB NUMBER: MBMR

A17B0157A E-06

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2	REVISED APPROVALS	HRH /	JV	08/03/2017	1	REVISED APPROVAL	RCC / RCC	JV	06/14/2017
)	FOR APPROVAL ONLY	RCC / RCC	JV	06/12/2017					

S1



ENDWALL FRAMING ELEVATION AT LINE 1 BLDG 1

PLANE ID: 1001, 1002

CAROLINA DIESEL TRUCKS 62 PROGRESS DRIVE FUQUAY VARINA, NC 27526 THOMAS ANDREWS

**NOT FOR CONSTRUCTION** DRAWING STATUS:
FOR APPROVAL ONLY AMERICAN BUILDINGS SOFTWARE VERSIONS DESIGN: MSA 47.3 BIM: v20.6 JOB NUMBER: SHEET:

MBMR

A17B0157A

E-07

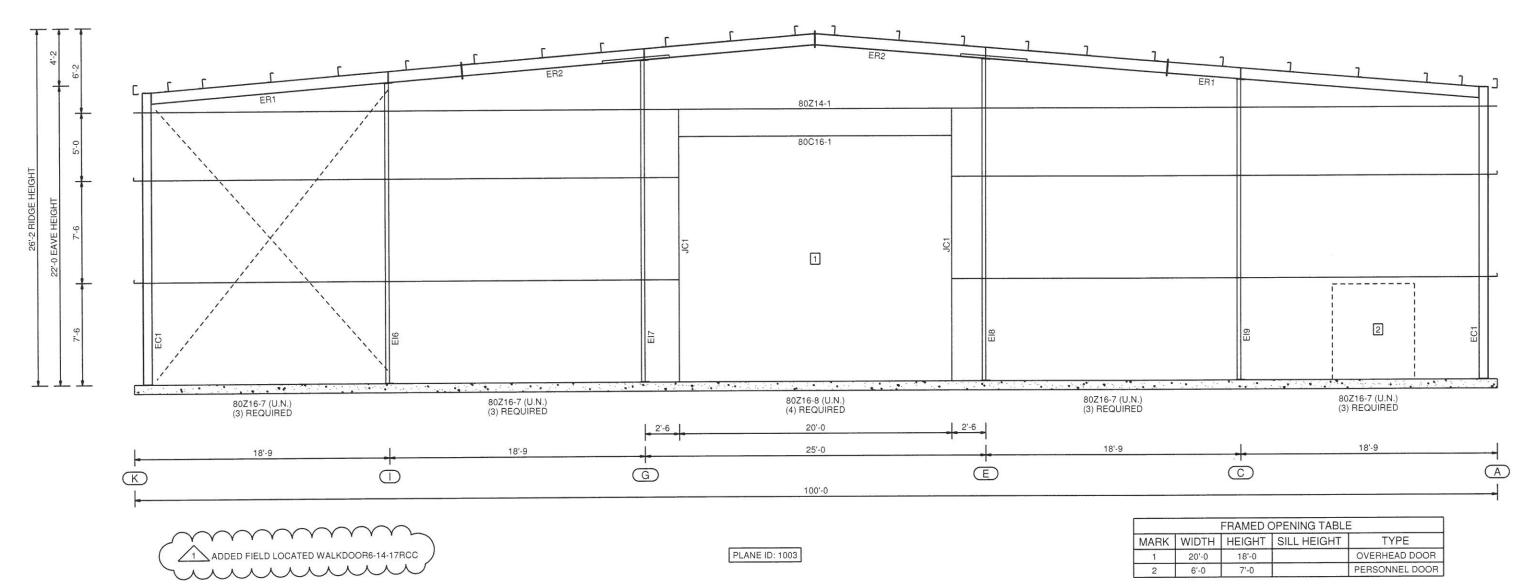
 
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2 REVISED APPROVALS
0 FOR APPROVAL ONLY RELEASE / REVISION HRH / JV 08/03/2017 1 REVISED APPROVAL RCC / RCC JV 06/12/2017

16'-0 8'-0

THIS ENDWALL FRAME MUST NOT BE ERECTED WITHOUT THE CROSS BRACING. REFER TO THE FRAME CROSS SECTION AT THIS FRAME LINE FOR THE REQUIRED CROSS BRACING.

Purlin and Girt depth and spacing are subject to change upon final design. Flange braces from the girts and purlins to the columns and rafters are required for structural stability, but are not shown on this drawing for clarity. This drawing shall not be construed as allowing the structure to be erected without flange braces.



ENDWALL FRAMING ELEVATION AT LINE 5 BLDG 1

**NOT FOR CONSTRUCTION**

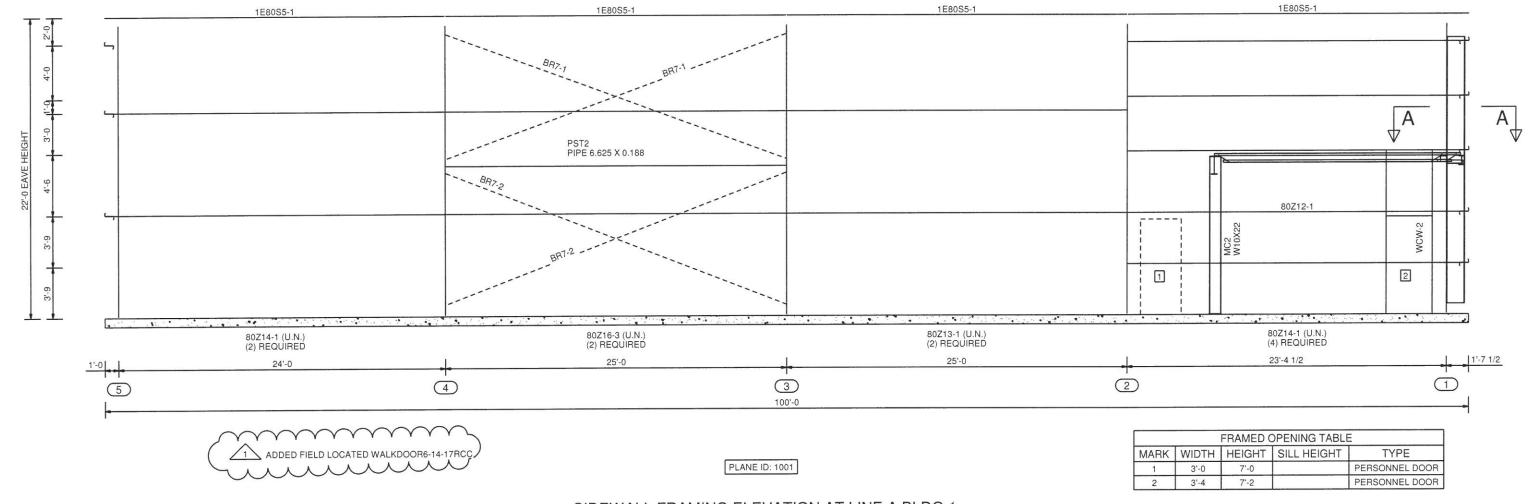
CAROLINA DIESEL TRUCKS 62 PROGRESS DRIVE FUQUAY VARINA, NC 27526 THOMAS ANDREWS



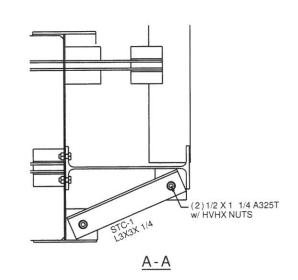


JOB NUMBER: A17B0157A E-08

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REVISED APPROVALS
FOR APPROVAL ONLY RCC / RCC JV 06/14/2017 HRH / JV 08/03/201 1 REVISED APPROVAL RCC / RCC JV 06/12/2017



## SIDEWALL FRAMING ELEVATION AT LINE A BLDG 1



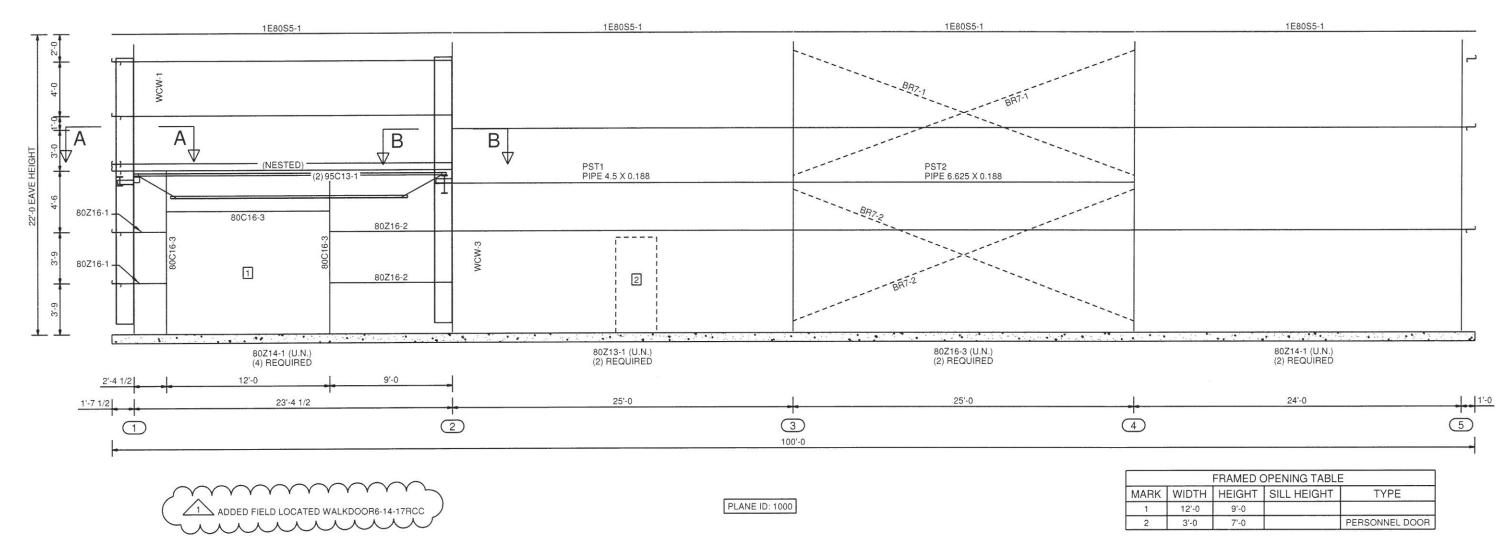
**NOT FOR CONSTRUCTION**

CAROLINA DIESEL TRUCKS 62 PROGRESS DRIVE FUQUAY VARINA, NC 27526 THOMAS ANDREWS

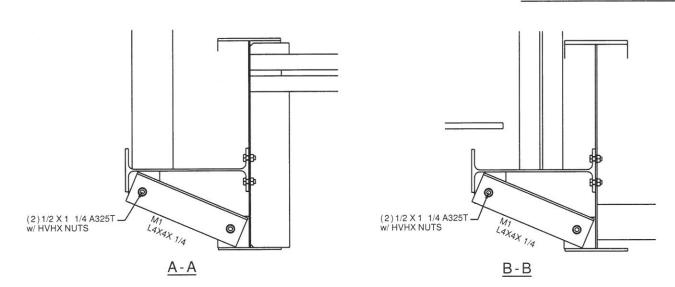


DRAWING STATUS: FOR APPROVAL ONLY AMERICAN BUILDINGS SOFTWARE VERSIONS DESIGN: MSA 47.3 BIM: v20.6 JOB NUMBER: SHEET: E-09

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2 REVISED APPROVALS
0 FOR APPROVAL ONLY RELEASE / REVISION RCC / RCC JV 06/14/2017 1 REVISED APPROVAL HRH / JV 08/03/2017 RCC / RCC JV 06/12/2017



## SIDEWALL FRAMING ELEVATION AT LINE K BLDG 1



**NOT FOR CONSTRUCTION**

E-10

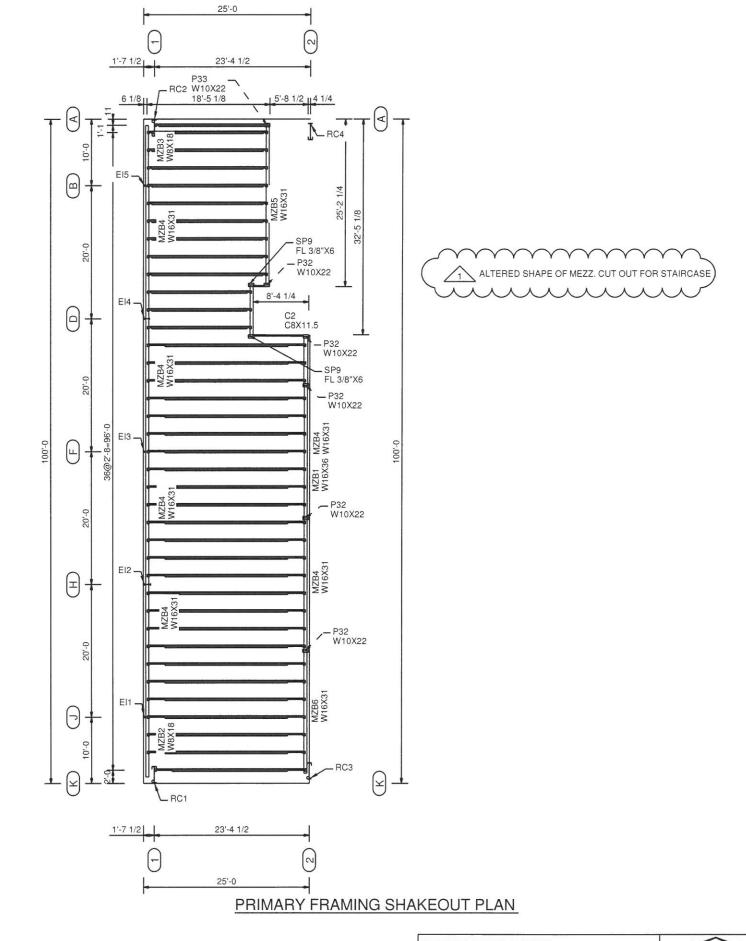
CAROLINA DIESEL TRUCKS 62 PROGRESS DRIVE FUQUAY VARINA, NC 27526 THOMAS ANDREWS



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DRAWING STATUS: FOR APPRO	VAL ONLY
SOFTWARE VERSIONS	DESIGN: MSA 47.3 BIM: v20.6
JOB NUMBER:	SHEET:

 
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2 REVISED APPROVALS
0 FOR APPROVAL ONLY 



CAROLINA DIESEL TRUCKS 62 PROGRESS DRIVE FUQUAY VARINA, NC 27526 THOMAS ANDREWS



	DRAWING STATUS: FOR APPRO	VAL ONLY
25	SOFTWARE VERSIONS	DESIGN: MSA 47.3 BIM: v20.6

JOB NUMBER: SHEET:
A17B0157A E-11

10	RELEASE / REVISION	DWN: / CKD:	ENGR	DATE	NO	RELEASE / REVISION	DWN: / CKD:	ENGR	DATE
2	REVISED APPROVALS	HRH /	JV	08/03/2017	1	REVISED APPROVAL	RCC / RCC	JV	06/14/2017
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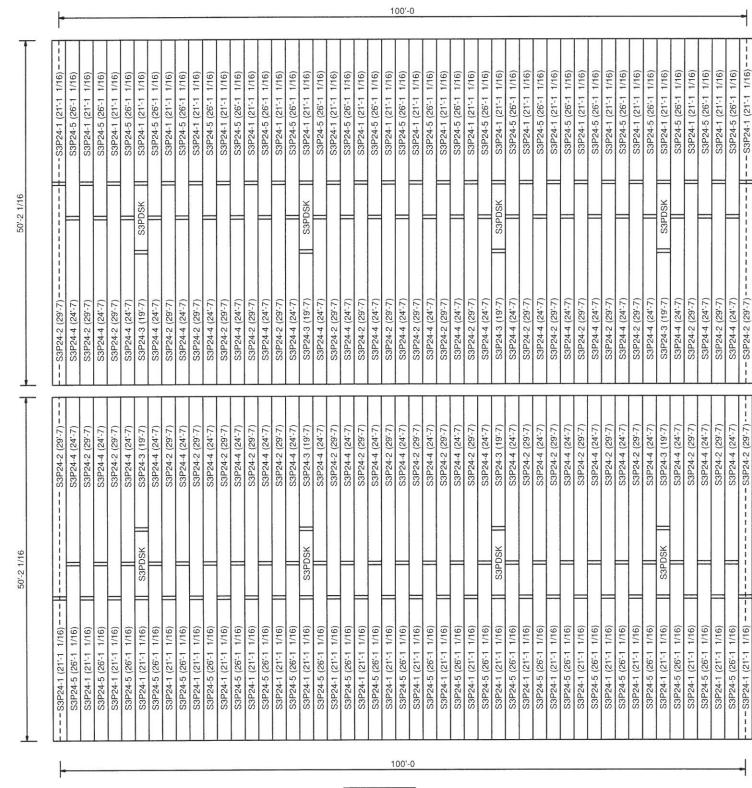
ERECTION NOTE!!! ALL ROOF PANEL SIDELAP TO PURLIN INTERSECTIONS REQUIRE PANEL CLIPS.

## REAR ROOF SHEETING PLAN BLDG 1

ROOF SHEETING @ 1005: (TBD)

PLANE ID: 1005

Aluminum-Coated panels are subject to staining due to residue from bare hands. Aluminum-Coated panels that include an acrylic finish do have additional protection, but it is limited and deteriorates in a relatively short time making that panel also subject to staining from bare hands. It is recommended that gloves be used for all handling of both products and that application of these products be limited to areas not exposed to touch.



PLANE ID: 1004

ROOF SHEETING @ 1004: (TBD)

## FRONT ROOF SHEETING PLAN BLDG 1

CAROLINA DIESEL TRUCKS 62 PROGRESS DRIVE FUQUAY VARINA, NC 27526 THOMAS ANDREWS





MBMA

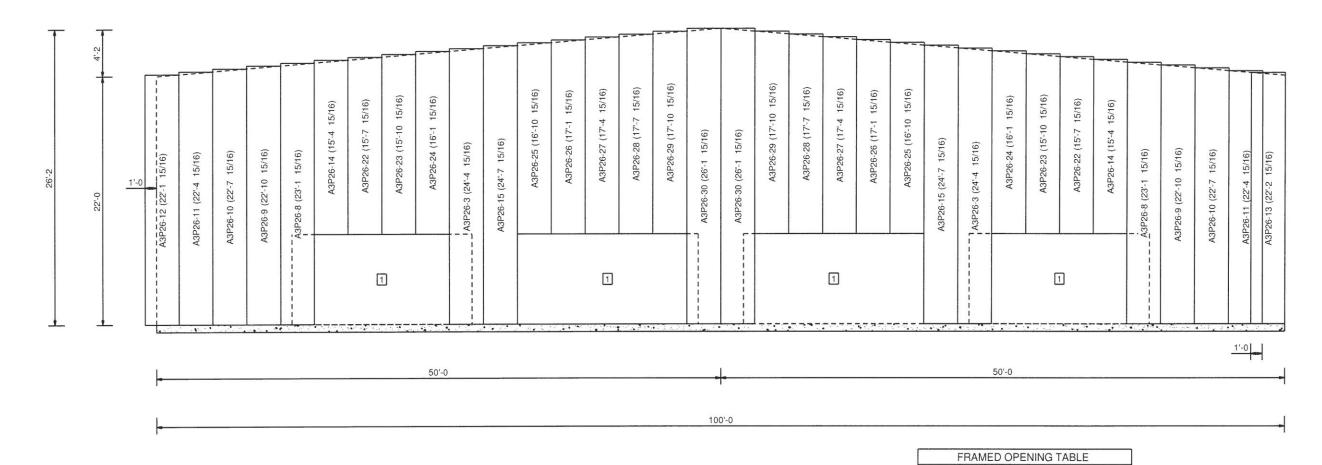


JOB NUMBER: SHEET:



RELEASE / REVISION DWN:/CKD: ENGR DATE DWN:/CKD: ENGR DATE RELEASE / REVISION 2 REVISED APPROVALS RCC / RCC JV 06/14/2017 HRH / JV 08/03/2017 1 REVISED APPROVAL RCC / RCC JV 06/12/2017 0 FOR APPROVAL ONLY

ERECTION NOTE!!! ALL WALL PANELS MUST BE FASTENED TO ALL GIRTS (PARTIAL BAY OR FULL BAY) ACCORDING TO THE REQUIRED FASTENER LAYOUT DETAILS.



PLANE ID: 1002

SHEETING PACKAGE: SP1014(FXGY)

ENDWALL SHEETING ELEVATION AT LINE 1 BLDG 1

CAROLINA DIESEL TRUCKS 62 PROGRESS DRIVE FUQUAY VARINA, NC 27526 THOMAS ANDREWS

MARK WIDTH HEIGHT TYPE TRIM

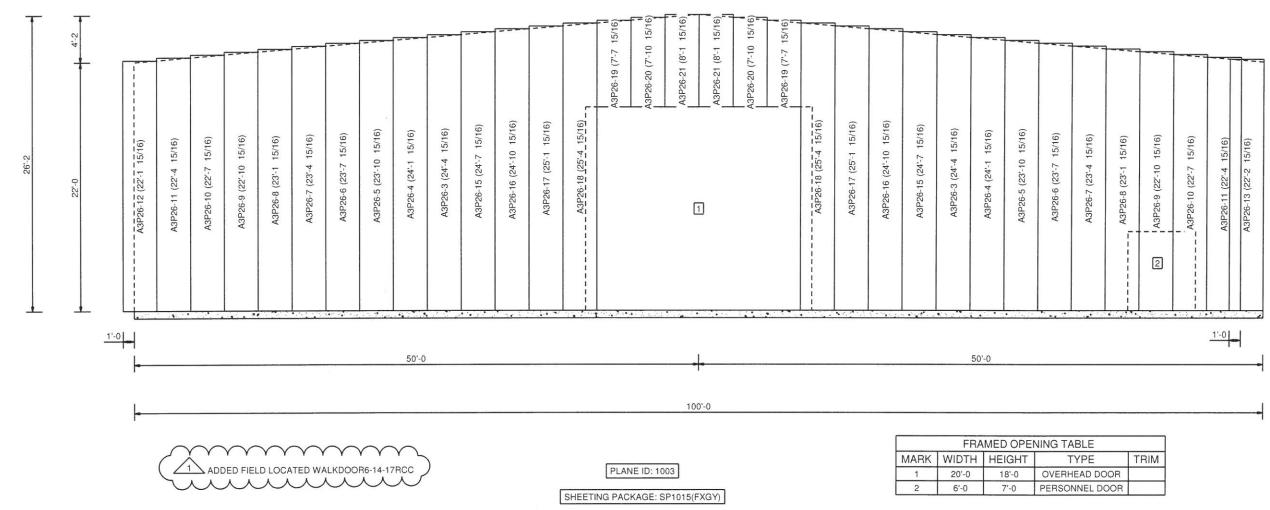
16'-0 8'-0



DRAWING STATUS FOR APPROVAL ONLY AMERICAN BUILDINGS SOFTWARE VERSIONS DESIGN: MSA 47.3 BIM: v20.6

JOB NUMBER: SHEET: E-13

DWN: / CKD: ENGR DATE NO NO RELEASE / RE
REVISED APPROVALS
FOR APPROVAL ONLY RELEASE / REVISION DWN:/CKD: ENGR DATE RELEASE / REVISION 1 REVISED APPROVAL RCC / RCC JV 06/14/2017 JV 08/03/2017 RCC / RCC JV 06/12/2017



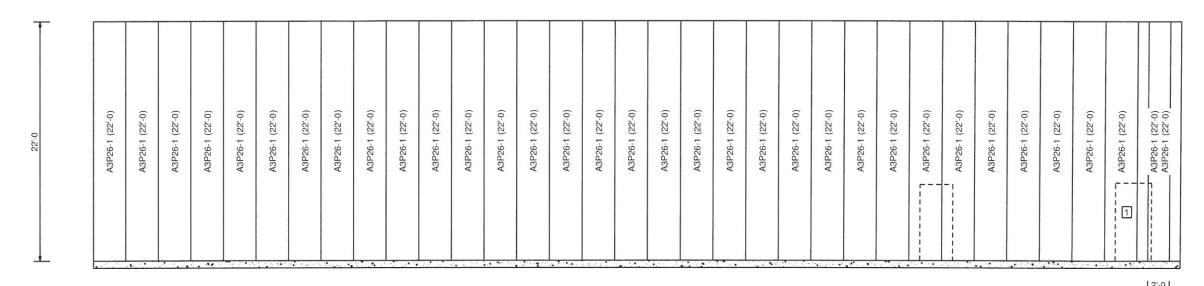
ENDWALL SHEETING ELEVATION AT LINE 5 BLDG 1

CAROLINA DIESEL TRUCKS 62 PROGRESS DRIVE FUQUAY VARINA, NC 27526 THOMAS ANDREWS



10	RELEASE / REVISION	DWN: / CKD:	ENGR	DATE	NO	RELEASE / REVISION	DWN:	CKD:	ENGR	DATE
2	REVISED APPROVALS	HRH /	JV	08/03/2017	1	REVISED APPROVAL	RCC /	RCC	JV	06/14/2017
0	FOR APPROVAL ONLY	RCC / RCC	JV	06/12/2017			81000			

ERECTION NOTE!!!
ALL WALL PANELS MUST BE FASTENED TO ALL GIRTS (PARTIAL BAY OR FULL BAY) ACCORDING TO THE REQUIRED FASTENER LAYOUT DETAILS.



00'-0



PLANE ID: 1001

SHEETING PACKAGE: SP1013(FXGY)

	FRA	MED OPE	NING TABLE	
MARK	WIDTH	HEIGHT	TYPE	TRIM
1	3'-0	7'-0	PERSONNEL DOOR	
2	3'-4	7'-2	PERSONNEL DOOR	

## SIDEWALL SHEETING ELEVATION AT LINE A BLDG 1

22.0	A3P26-1 (22'-0)	A3P26-1 (22'-0)	A3P26-2 (13-0)	A3P26-2 (13-0)	A3P26-2 (13-0)	A3P26-1 (22'-0)	A3P26-1 (22'-0)	A3P26-1 (22-0)	A3P26-1 (22-0)	A3P26-1 (22'-0)	A3P26-1 (22'-0)	A3P26-1 (22-0)	A3P26-1 (22-0)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A3P26-1 (22'-0)	A3P26-1 (22-0) A3P36-1 (22-0)	17 - 17																	
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100'-0



PLANE ID: 1000

SHEETING PACKAGE: SP1012(FXGY)

	FRA	MED OPE	NING TABLE	
MARK	WIDTH	HEIGHT	TYPE	TRIM
1	12'-0	9'-0		
2	3'-0	7'-0	PERSONNEL DOOR	

## SIDEWALL SHEETING ELEVATION AT LINE K BLDG 1

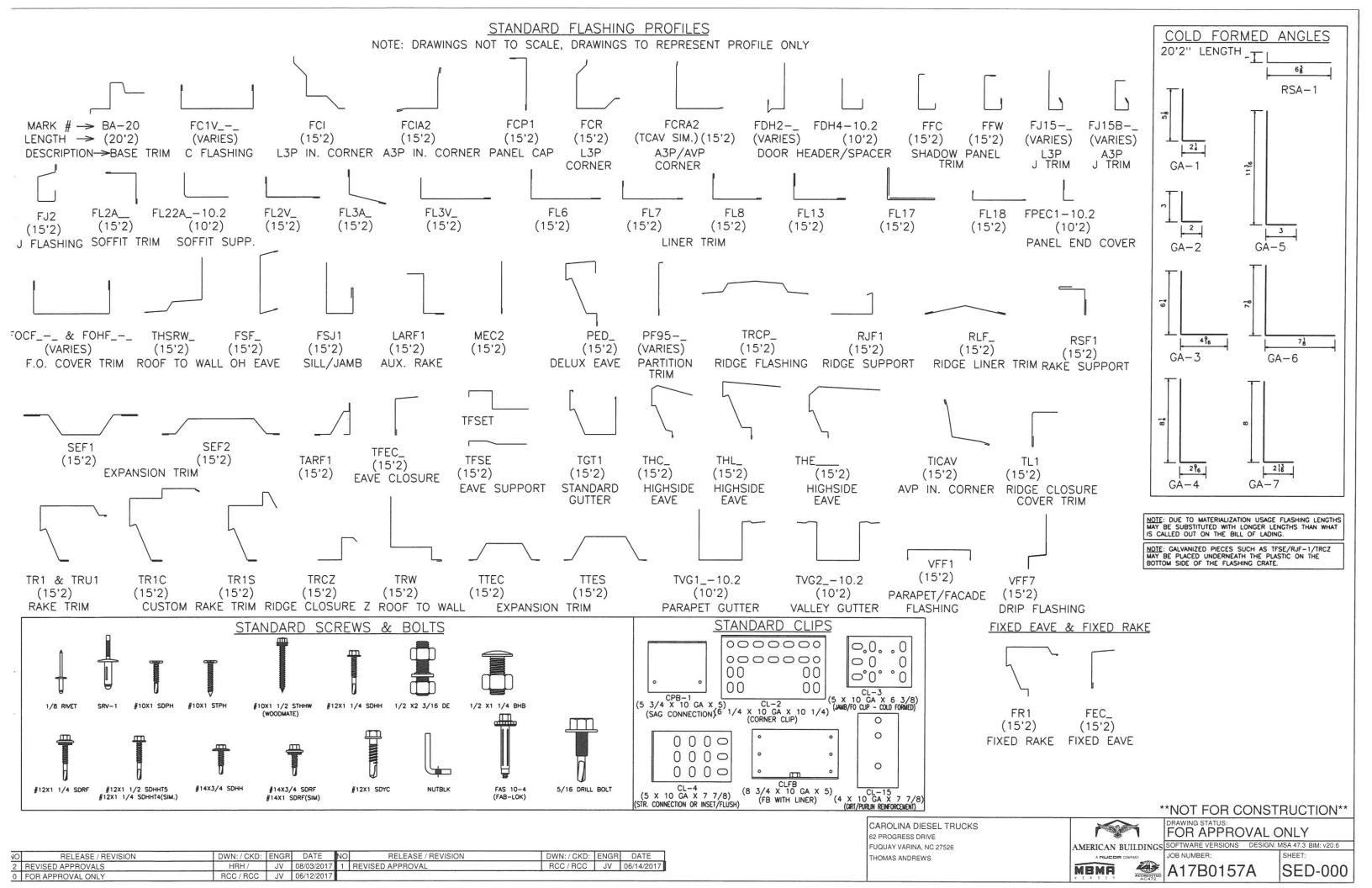
CAROLINA DIESEL TRUCKS 62 PROGRESS DRIVE FUQUAY VARINA, NC 27526 THOMAS ANDREWS

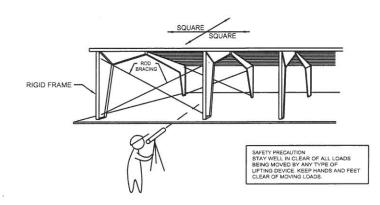


DRAWING STATUS: FOR APPRO	VAL ONLY
SOFTWARE VERSIONS	DESIGN: MSA 47.3 BIM: v20.6
JOB NUMBER:	SHEET:

E-15

					v-va-				
0	RELEASE / REVISION	DWN: / CKD:	ENGR	DATE	NO	RELEASE / REVISION	DWN: / CKD:	ENGR	DATE
2	REVISED APPROVALS	HRH /	JV	08/03/2017	1	REVISED APPROVAL	RCC / RCC	JV	06/14/2017
5	FOR APPROVAL ONLY	RCC / RCC	JV	06/12/2017					





THE FIRST STEP IN THE SUCCESSFUL INSTALLATION OF THE ROOF OR WALLS IS TO HAVE THE PRIMARY FRAMING PLUMB AND SQUARE. FOR BEST RESULTS, IT IS RECOMMENDED THAT A TRANSIT BE USED WHEN ERECTING THE STRUCTURAL STEEL.

BE SURE TO READ THE GENERAL ERECTION GUIDE PRIOR TO COMMENCING ERECTION.

### **BUILDING ALIGNMENT**

AA

GE01

THE METAL BUILDING SUPPLIER STRONGLY RECOMMENDS THAT SAFE WORKING CONDITIONS AND ACCIDENT PREVENTION PRACTICES BE THE TOP PRIORITY ON ANY JOB SITE.

LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS SHOULD ALWAYS BE FOLLOWED TO HELP

MAKE CERTAIN ALL EMPLOYEES KNOW THE SAFEST AND MOST PRODUCTIVE WAY OF ERECTING A BUILDING. EMERGENCY TELEPHONE NUMBERS, LOCATIONS OF FIRST AID STATIONS AND EMERGENCY PROCEDURES SHOULD BE KNOWN TO ALL EMPLOYEES.

DAILY MEETINGS HIGHLIGHTING SAFETY PROCEDURES, THE USE OF HARD HATS, RUBBER SOLE SHOES FOR ROOF WORK, PROPER EQUIPMENT FOR HANDLING MATERIAL AND SAFETY NETS WHERE POSSIBLE ARE RECOMMENDED ERECTION PRACTICES.

THE METAL BUILDING SUPPLIER INTENDS THAT THESE DRAWINGS BE INTERPRETED AND ADMINISTERED WITH SOUND JUDGMENT CONSISTENT WITH GOOD SAFETY PRACTICES.

ALL SAFETY PRECAUTIONS, OSHA SAFETY REQUIREMENTS, OR ANY OTHER APPROPRIATE SAFETY REQUIREMENTS, CUSTOMARY OR STATUTORY, MUST BE ADHERED TO, TO ENSURE MAXIMUM WORKER

IF OIL OR OTHER SLIPPERY SUBSTANCES ARE SPILLED ON THE ROOF/DECK PANELS, WIPE THEM OFF IMMEDIATELY TO PREVENT SLIPPING OR FALLING.

YOU SHOULD MAINTAIN A FIRM, SAFE POSITION WHEN USING ANY TOOL.

YOU SHOULD MAINTAIN A CONSTANT AWARENESS OF YOUR LOCATION IN RELATION TO THE ROOF EDGE WHEN USING TOOLS AND MACHINES OR PERFORMING ANY OTHER FUNCTION ON THE ROOF AREA.

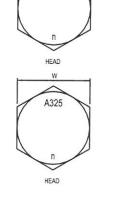
DO NOT UNDER ANY CIRCUMSTANCES STEP OR WALK ON THE SURFACE OF ANY FIBERGLASS SKYLIGHT. IF FOOT TRAFFIC IS NECESSARY OVER SKYLIGHT, USE WALK BOARDS THAT ARE PROPERLY SUPPORTED BY THE BUILDING PURLINS.

### SAFETY COMMITMENT

GE70 AA







A325T

ASTM A325/A325T BOLT IDENTIFICATION

MF01 AA

BOLTED JOINTS
BOLTED JOINTS SHALL BE CONNECTED AND INSPECTED IN ACCORDANCE WITH THE "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS", DECEMBER 31, 2009, APPROVED BY THE RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS COMMITTEE.

SNUG-TIGHT JOINTS
UNLESS NOTED OTHERWISE ON THE METAL BUILDING SUPPLIERS ERECTION DRAWINGS, ALL A325 BOLTS ARE USED IN CONNECTIONS DEFINED AS SNIG-TIGHT JOINTS (ST). FOR INSTALLATION IN SNUG-TIGHT JOINTS, ALL BOLT HOLES SHALL BE ALIGNED TO PERMIT BOLT INSERTION WITHOUT UNDUE DAMAGE TO THE THREADS. BOLTS SHALL BE PLACED IN ALL HOLES WITH NUTS THREADED TO COMPLETE THE ASSEMBLY BEFORE COMPACTING THE JOINT TO THE SNUG-TIGHT POSITION, PROGESSING SYSTEMATICALLY FROM THE MOST RIGID PART OF THE JOINT. SNUG TIGHT IS THE CONDITION THAT EXISTS WHEN ALL HAVE BEEN PULLED. NIGHT PART OF THE BOLTS IN THE JOINT AND ALL BOLTS IN THE JOINT HAVE BEEN THEFT POLED SUFFICIENTLY TO PREVENT THE REMOVAL OF THE NUTS WITHOUT THE USE OF A WRENCH. MORE THAN ONE CYCLE THROUGH THE BOLT PATTERN MAY BE REQUIRED.

PRETENSIONED AND SLIP-CRITICAL JOINTS
CONNECTIONS WHICH ARE DEFINED AS PRETENSIONED (PT) OR SLIP-CRITICAL (SC) JOINTS WILL BE AS NOTED
ON THE ERECTION DRAWINGS BY THE METAL BUILDING MANUFACTURER OR BY THE ENGINEER OF RECORD.
ALL CONNECTIONS WITH A499 BOLTS ARE EITHER PRETENSIONED (PT) OR SLIP-CRITICAL (SC) JOINTS.
PRETENSIONED JOINTS ARE TYPICALLY REQUIRED WHEN THE JOINT IS SUBJECT TO SIGNIFICANT LOAD REVERSAL. THE JOINT IS SUBJECT TO FATIGUE LOAD WITH NO LOAD REVERSAL. THE BOLTS ARE SUBJECT TO TENSILE FATIGUE, THE BUILDING SUPPORTS A CRANE OF OVER 5-TON CAPACITY, OR THE CONNECTION IS PART OF THE SEISMIC LOAD RESISTING SYSTEM AND AISC SEISMIC PROVISIONS (AISC 341) ARE APPLICABLE. THE SEISMIC PROVISIONS (AISC 341) ARE APPLICABLE. IS TAKEN GREATER THAN 3. LOADINGS FROM WIND OR SNOW ARE NOT CONSIDERED SIGNIFICANT LOAD REVERSAL OR FATIGUE LOADINGS. SLIP CRITICAL JOINTS ARE REQUIRED WHEN SLIP IS DETERMINED TO BE REVERSAL OR PATIGUE LONDINGS, SUP CATITIONS JOINES PARE REQUIRED WHICH SUPERINGED TO BE DETRIMENTAL TO THE PERFORMANCE OF THE STRUCTURE. INSTALLATION METHODS PERMITTED FOR PRETENSIONED JOINTS INCLUDE TURN-OF-NUT PRETENSIONING, CALIBRATED WRENCH PRETENSIONING, TWIST-OFF-TYPE TENSION CONTROL BOLT PRETENSIONING, AND DIRECT-TENSION-INDICATOR PRETENSIONING. HOT DIP GALVANIZED CONNECTIONS MAY REQUIRE RE-PRETENSIONING AFTER 5 DAYS OF SETTLING.

TURN-OF-NUT PRETENSIONING
FIRST TIGHTEN ALL BOLTS IN ACCORDANCE WITH THE ABOVE SNUG-TIGHT PROCEDURE. THEN ROTATE THE
NUT OR READ BY THE AMOUNT SPECIFIED IN THE BOLT PRETENSION SCHEDULE, PROGRESSING SYSTEMATICALLY
FROM THE MOST RIGID PART OF THE JOINT. THE PART NOT TURNED BY THE WRENCH SHALL BE PREVENTED FROM ROTATING DURING THIS OPERATION. IF THE NUT IS TURNED IN THE LOOSENING POSITION THE BOLT MUST BE REMOVED AND REPLACED. PRETENSION VALUES EQUAL TO OR GREATER THAN THE MINIMUM VALUES LISTED IN THE BOLT PRETENSION SCHEDULE ARE REQUIRED.

	ASTM MINIMU	M BOLT PRETE	NSION SCHEDUL	E
NOMINAL BOLT DIAMETER,		SION, T _m KIPS		ROTATION FROM HT CONDITION
d _b	ASTM A325 AND F1852	ASTM A490 AND F2280	L _b ≤ 4d _b	4d _b < L _b ≤ 8d _b
1/2"	13 KIPS	16 KIPS		
3/4"	29 KIPS	37 KIPS		
7/8"	41 KIPS	51 KIPS	1/3 TURN	1/2 TURN
1"	54 KIPS	67 KIPS		
1 1/4"	75 KIPS	107 KIPS		

(L_b = LENGTH OF BOLT)

INSPECTION REQUIREMENTS PRIOR TO START OF WORK; VERIFY ALL FASTENER COMPONENTS CONFORM TO REQUIREMENTS.

INSPECTION REQUIREMENTS FOR SNUG-TIGHT JOINTS:

VERIFY THAT THE PROPER FASTENER COMPONENTS WERE USED AND THAT THE CONNECTED ELEMENTS WERE FABRICATED PROPERLY. AFTER ASSEMBLY, IT SHALL BE VISUALLY ENSURED THAT THE PLIES ARE SOLIDLY SEATED AGAINST EACH OTHER, BUT NOT NECESSARILY IN CONTINUOUS CONTACT, THAT WASHERS, IF REQUIRED, HAVE BEEN USED, AND THAT ALL BOLTS IN THE JOINT HAVE BEEN TIGHTENED SUFFICIENTLY TO PREVENT THE TURNING OF THE NUTS WITHOUT THE USE OF A WRENCH. NO FURTHER EVIDENCE OF CONFIDENCE OF CONFIDENCE OF THE NUTS WITHOUT THE USE OF A WRENCH. NO FURTHER EVIDENCE OF CONFORMITY IS REQUIRED.

INSPECTION REQUIREMENTS FOR TURN-OF-NUT PRETENSIONING,
FOR TURN-OF-NUT PRETENSIONING, IN ADDITION TO THE INSPECTION REQUIREMENTS FOR SNUG-TIGHT
JOINTS, THE INSPECTOR SHALL OBSERVE THE PRE-INSTALLATION VERIFICATION TESTING AND MONITOR THE
WORK IN PROGRESS TO ENSURE THAT THE BOLTING CREW PROPERLY ROTATES THE TURNED ELEMENT BY
THE AMOUNT SPECIFIED IN THE SCHEDULE. ALTERNATIVELY, WHEN THE FASTENERS ARE MATCH-MARKED
AFTER INITIAL FITUP (SNUG-TIGHT CONDITION), VISUAL INSPECTION IS PERMITTED. THE SIDE OF NUTS
AND BOLTS THAT HAVE BEEN IMPACTED SUFFICIENTLY TO INDUCE THE MINIMUM PRETENSION LOADS WILL
ANDERS IN LIGHTLY VERSION, IN SIDE PURPLICES OF CONSIDERATIVE IS REQUIRED. APPEAR SLIGHTLY PEENED. NO FURTHER EVIDENCE OF CONFORMITY IS REQUIRED.

<b>BOLT</b>	INSTALL	ATION &	INSPEC	TION	NOTES
DOLI	HAOLVER	ALION G	INOI LO	LIOIN	INDIFC

1/2"Ø, 3/4"Ø, 7/8"Ø, 1"Ø & 1 1/4"Ø STRUCTURAL BOLTS (A325)

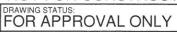
MF91 AA

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**NOT FOR CONSTRUCTION**

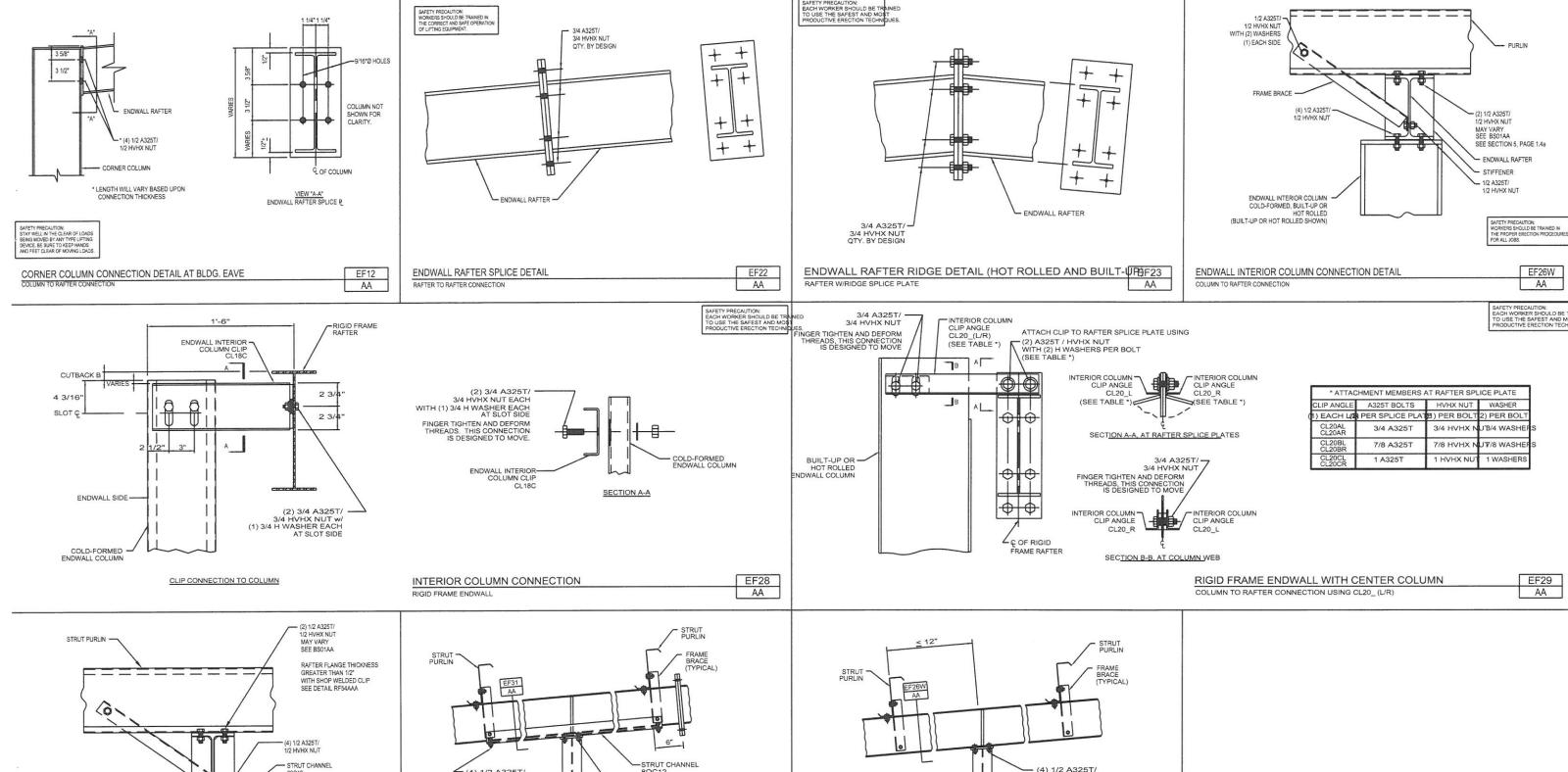
CAROLINA DIESEL TRUCKS 62 PROGRESS DRIVE FUQUAY VARINA, NC 27526 THOMAS ANDREWS



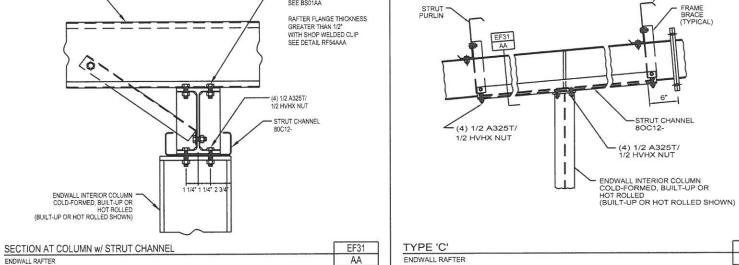


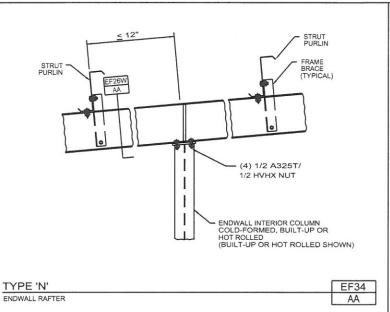
JOB NUMBER SHEET A17B0157A

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EF33 AA





**NOT FOR CONSTRUCTION**

CAROLINA DIESEL TRUCKS 62 PROGRESS DRIVE FUQUAY VARINA, NC 27526 THOMAS ANDREWS



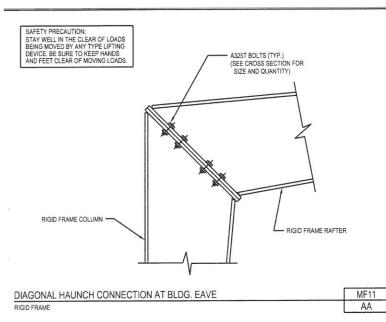


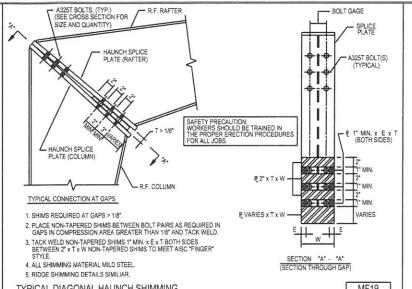
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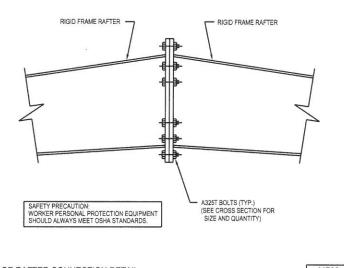
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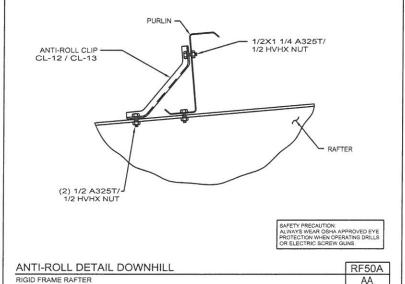
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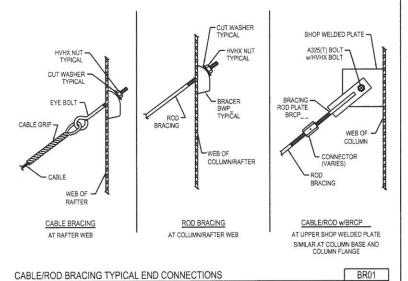
TYPICAL DIAGONAL HAUNCH SHIMMING RIGID FRAME

MF19 AA

RIDGE RAFTER CONNECTION DETAIL RIGID FRAME RAFTER

MF22 AA

AA



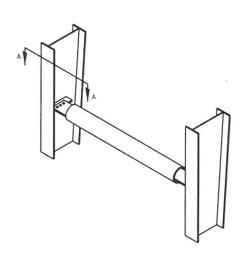
**HVHX NUT** CUT WASHER -- BRACER BRACER-REQUIRED FOR ROD ASSEMBLY

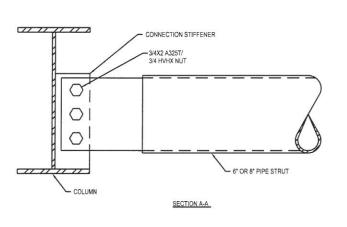
ROD BRACING

ROD Ø	ROD BRACING	BRACER	CUT WASHER	HVHX NUT
5/8"	BR5-	BWP1	5/8 CUT WASHER	5/8 HVHX NUT
3/4"	BR6-	BWP2	3/4 CUT WASHER	3/4 HVHX NUT
7/8"	BR7-	BWP2	7/8 CUT WASHER	7/8 HVHX NUT
1"	BR8-	BWP3	1 CUT WASHER	1 HVHX NUT
1 1/8"	BR9-	BWP3	1 1/8 CUT WASHER	1 1/8 HVHX NUT
1 1/4"	BR10-	BWP3	1 1/4 CUT WASHER	1 1/4 HVHX NUT
1 3/8"	BR11-	BWP4	1 3/8 CUT WASHER	1 3/8 HVHX NUT
1 1/2"	BR12-	BWP4	1 1/2 CUT WASHER	1 1/2 HVHX NUT

ROD BRACING ASSEMBLY

BR01W AA





STIFFENER MOUNTED 6" OR 8" PIPE STRUT AT COLUMN

BR15W AA

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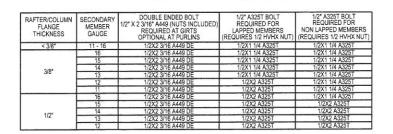
AA

CAROLINA DIESEL TRUCKS 62 PROGRESS DRIVE FUQUAY VARINA, NC 27526 THOMAS ANDREWS



JOB NUMBER A NUCOR COMPAN MBMA

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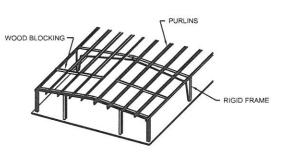


THE FOLLOWING FLANGE THICKNESS CONNECTIONS REQUIRE THE USE OF SHOP WELDED CLIPS, (SEE CONNECTION DETAILS.)

RAFTER/COLUMN FLANGE THICKNESS	SECONDARY MEMBER GAUGE	BUTTON HEAD BOLT  AT WALL ZEE GIRTS ONLY  1/2" BUTTON HEAD BOLT (NUT INCLUDED) FIRST GIRT TO SHOP WELDED CLIP (UP THROUGH 1ST GIRT AND SHOP WELDED CLIP)	1/2" A325T BOLT REQUIRED FOR LAPPED AND NON LAPPED MEMBERS (REQUIRES 1/2 HVHX NUT)
1/2"	-11	1/2 X 1 1/4 A307 BHB	1/2 X 1 1/4 A325
	16	1/2 X 1 1/4 A307 BHB	1/2 X 1 1/4 A325
	15	1/2 X 1 1/4 A307 BHB	1/2 X 1 1/4 A325
4 (0)	14	1/2 X 1 1/4 A307 BHB	1/2 X 1 1/4 A325
> 1/2"	13	1/2 X 1 1/4 A307 BHB	1/2 X 1 1/4 A325
	12	1/2 X 1 1/4 A307 BHB	1/2 X 1 1/4 A325
	11	1/2 X 1 1/4 A307 BHB	1/2 X 1 1/4 A325

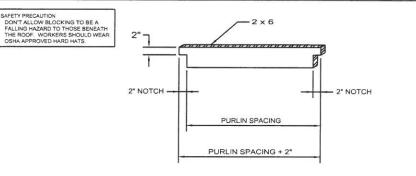
## BYPASS SECONDARY FRAMING CONNECTION, BOLT REQUIREMENTS

BS01 AA



Straight purlins are a necessity. Zee sections have a natural tendency to roll out of plane and deflect horizontally. This must be corrected by forcing the purlins into proper plane and spacing. Wood blocking is recommended as one method to accomplish this.

Before installing the roof panels and insulation, be certain that the purlins are straight and at 90° to the slope of the roof. Use wood blocking to assist with purlin alignment if adjustment is needed. Start with one row of temporary blocking in the center of the bay. Use additional rows of blocking if needed to maintain straight purlins. As sheeting progresses to within one panel width of the blocking it should hold the purlins in alignment allowing the blocking to be removed Move blocking to next bay as the erection progresses.



Typical construction of wood blocking is shown above. A 2 x 6 minimum board size should be used. Refer to the cross section framing drawings that accompanied the building to determine the purlin size and spacing. Measure the purlin flange and cut notch in board accordingly.

## PURLIN BLOCKING

GE02 AA

STANDARD PURLIN LAP RF01 BYPASS CONDITION AA

- PURLIN

(2) 1/2X1 1/4 A325T/

SEE BS01AA

1/2 HVHX NUT OR AS AN OPTION (1) 1/2X1 1/4 A325T/ 1/2 HVHX NUT

AND (1) 1/2X2 3/16 A449 DE - (TYP) MAY VARY

RAFTER FLANGE THICKNESS GREATER

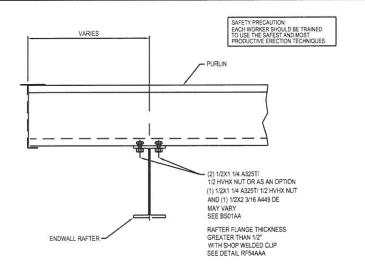
THAN 1/2* WITH SHOP WELDED CLIPS SEE DETAIL RF54AAA

- 1/2X1 1/4 A325T/ 1/2 HVHX NUT

RAFTER

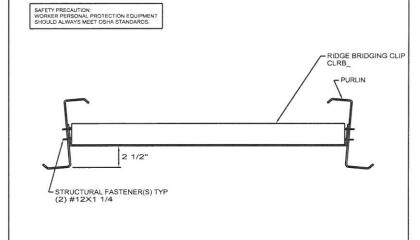
FOR ANTI-ROLL CLIP OR — WEB REINFORCEMENT CLIP

SAFETY PRECAUTION: PUT WORKER SAFETY FIRST.



PURLIN CONNECTION DETAIL AT ENDWALL FRAME

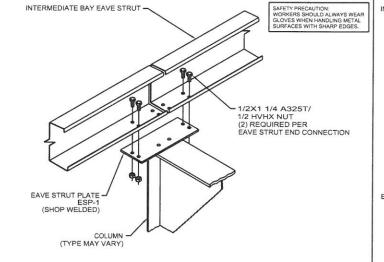
RF03R AA



RIDGE BRIDGING CLIP CONNECTION DETAIL

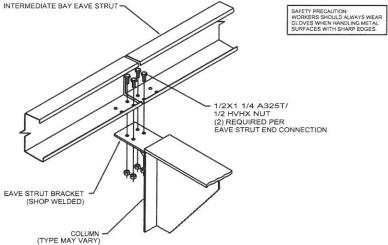
RF05 AA

AA



LOW/HIGH SIDE EAVE STRUT CONNECTION (INSET GIRTS) AT RAFTER/COLUMN FLANGE WIDTHS ≤ 10"

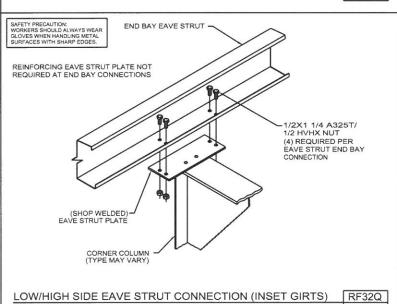
RF31Q AA



LOW/HIGH SIDE EAVE STRUT CONNECTION (BYPASS GIRTS) RF31R ALL RAFTER/COLUMN FLANGE WIDTHS AA

INTERMEDIATE BAY EAVE STRUT -1/2X1 1/4 A325T/ 1/2 HVHX NUT (2) REQUIRED PER EAVE STRUT END CONNECTION 1/2X2 A325T/ 1/2 HVHX NUT (2) REQUIRED PER EAVE STRUT END CONNECTION REINFORCING EAVE STRUT PLATE -EAVE STRUT BRACKET (SHOP WELDED) (TYPE MAY VARY)

LOW/HIGH SIDE EAVE STRUT CONNECTION (BYPASS GIRTS) RF31RB AA ALL RAFTER/COLUMN FLANGE WIDTHS WITH REINFORCING PLATE



SAFETY PRECAUTION: WORKERS SHOULD ALWAYS WEAR END BAY EAVE STRUT LOVES WHEN HANDLING METAL URFACES WITH SHARP EDGES. 1/2X1 1/4 A325T/ 1/2 HVHX NUT (4) REQUIRED PER EAVE STRUT END CONNECTION EAVE STRUT BRACKET -(SHOP WELDED) CORNER COLUMN (TYPE MAY VARY) LOW/HIGH SIDE EAVE STRUT CONNECTION (BYPASS GIRTS) RF32R

ALL RAFTER/COLUMN FLANGE WIDTHS AA

**NOT FOR CONSTRUCTION*

CAROLINA DIESEL TRUCKS 62 PROGRESS DRIVE FUQUAY VARINA, NC 27526 THOMAS ANDREWS

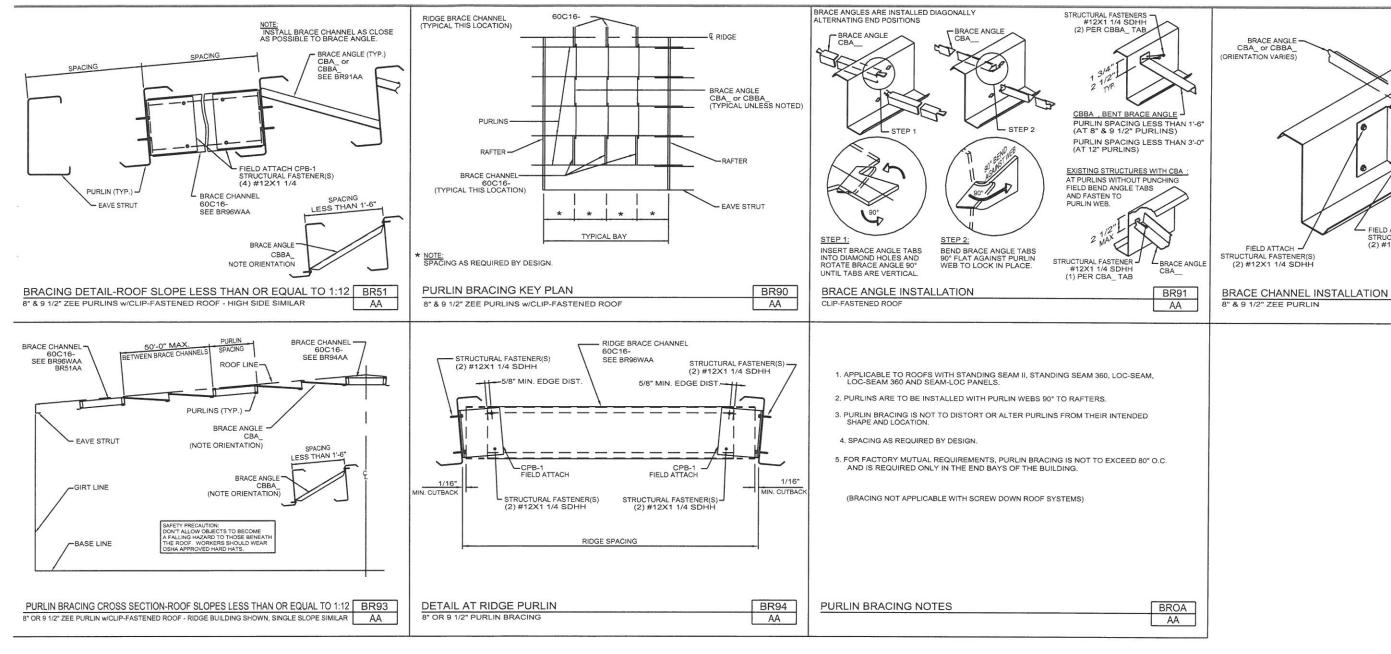




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ALL RAFTER/COLUMN FLANGE WIDTHS



**NOT FOR CONSTRUCTION**

PURLIN

NOTE: INSTALL BRACE CHANNEL AS CLOSE

AS POSSIBLE TO BRACE ANGLE.

BRACE CHANNEL 60C16-

BR92

AA

CAROLINA DIESEL TRUCKS 62 PROGRESS DRIVE FUQUAY VARINA, NC 27526 THOMAS ANDREWS



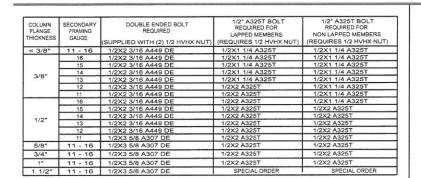


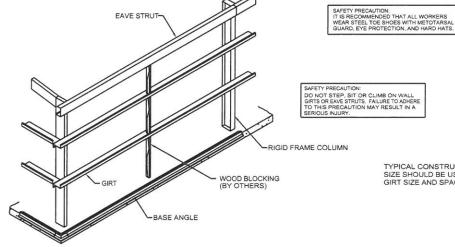
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A17B0157A

FIELD ATTACH STRUCTURAL FASTENER(S) (2) #12X1 1/4 SDHH





2 X 6 WOOD BLOCKING (BY OTHERS)

GIRT SPACING

TYPICAL CONSTRUCTION OF THE WOOD BLOCKING IS SHOWN ABOVE, A 2 X 6 MINIMUM BOARD SIZE SHOULD BE USED. REFER TO THE CROSS SECTION FRAMING DRAWINGS TO DETERMINE THE

INSTALLATION OF THE BUILDING WALLS IS GENERALLY DONE BEFORE THE ROOF. BEFORE STARTING THE WALL SHEETING OR INSULATION, CHECK TO BE SURE THAT THE EAVE STRUT AND GIRTS ARE STRAIGHT AND PLUMB. TO ALIGN THE GIRTS, CUT TEMPORARY WOOD BLOCKING

TO THE PROPER LENGTH AND INSTALL BETWEEN THE LINES OF GIRTS. THIS BLOCKING CAN BE MOVED FROM BAY TO BAY WHICH WILL REDUCE THE NUMBER OF PIECES REQUIRED. NORMALLY, ONE LINE OF BLOCKING PER BAY WILL BE SUFFICIENT.

GIRT BLOCKING

GEO3 INSET GIRT CONNECTION TO COLUMN AA

GIRT EXTENSION ANGLE

(TYP.)

STRUCTURAL FASTENER(S)

WF01Q AA

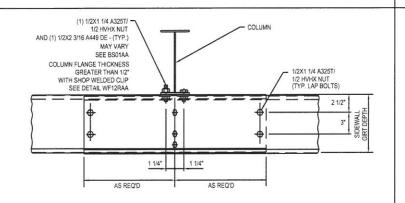
8" OR 9 1/2" GIRTS 1/2X2 A325T/ 1/2 HVHX NUT

1/2 HVHX NUT

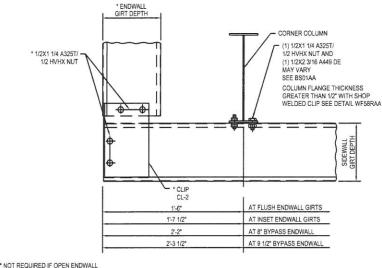
1/2 HVHX NUT

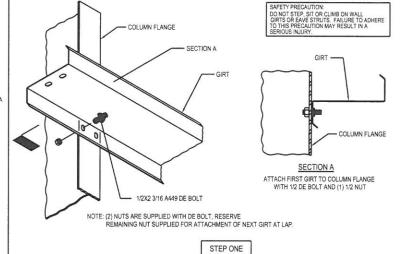
W/ (2) H WASHERS PER BOLT

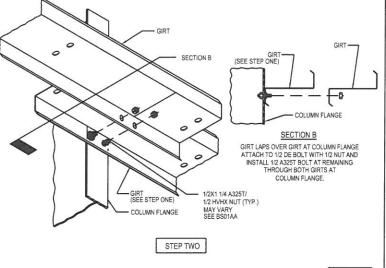
W/ (2) H WASHERS PER BOLT AND CL-4B (1) PER CL-4



BOLT REQUIREMENTS FOR SECONDARY FRAMING CONNECTIONS AT COLUMNS







BYPASS LAPPED ZEE GIRT CONNECTION WF02R AA COLUMN FLANGE THICKNESS LESS THAN OR EQUAL TO 1/2*

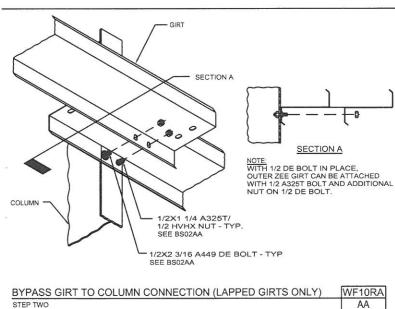
CORNER GIRT CONNECTION (RIGID FRAME CORNER COLUMN) BYPASS SIDEWALL / BYPASS, INSET OR FLUSH ENDWALL

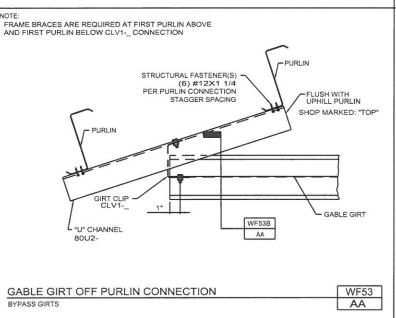
WF04 AA

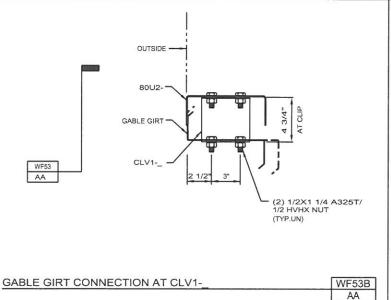
BYPASS ZEE GIRT CONNECTION TO COLUMN AT INTERIOR COLUMN COLUMN FLANGE THICKNESS LESS THAN OR EQUAL TO 1/2"

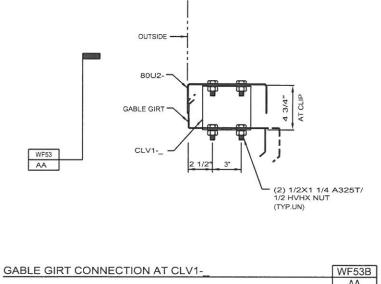
WF10R AA

SED-006









**NOT FOR CONSTRUCTION** DRAWING STATUS

A17B0157A MBMA

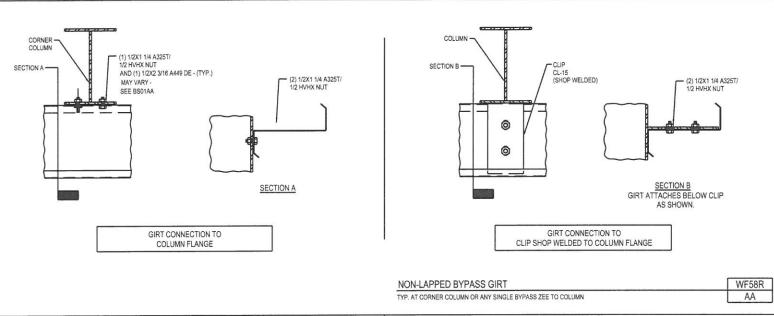
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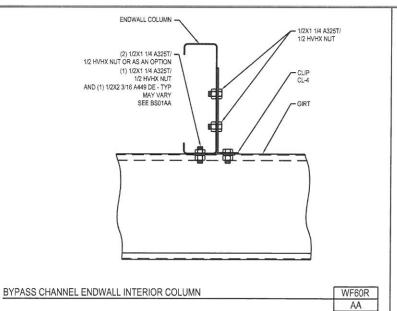
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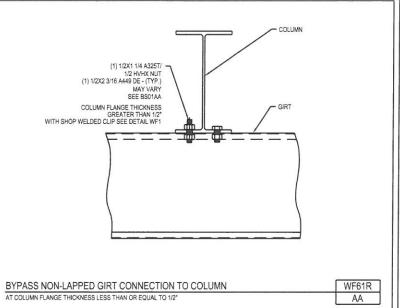
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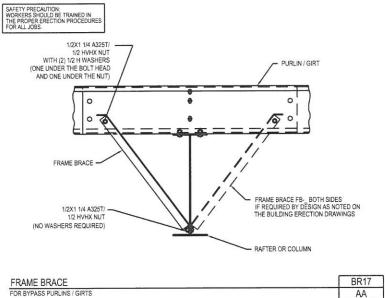
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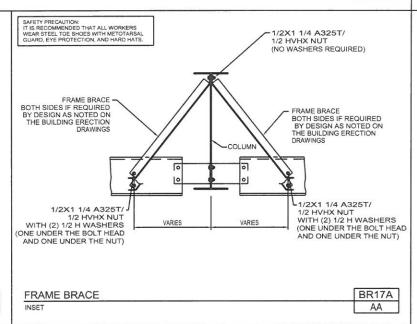
CAROLINA DIESEL TRUCKS 62 PROGRESS DRIVE FUQUAY VARINA, NC 27526 THOMAS ANDREWS

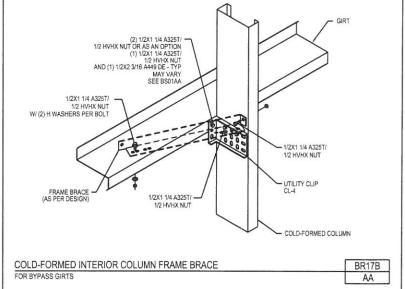












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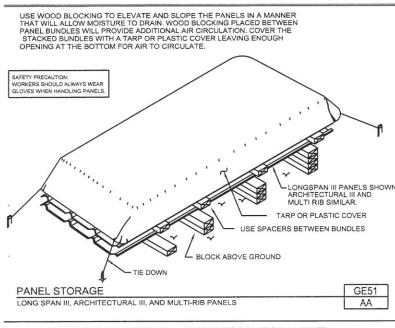
SED-007

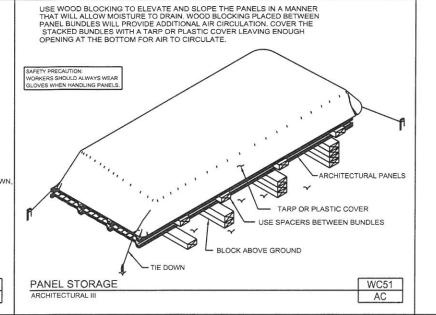
CAROLINA DIESEL TRUCKS 62 PROGRESS DRIVE FUQUAY VARINA, NC 27526 THOMAS ANDREWS



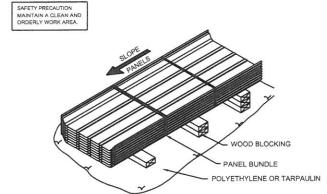


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2 REVISED APPROVALS	HRH /	JV	08/03/2017	1	REVISED APPROVAL	RCC / RCC	JV	06/14/2017
0 FOR APPROVAL ONLY	RCC / RCC	JV	06/12/2017				0,00	

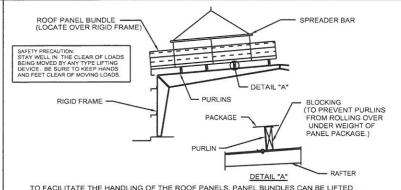




USE WOOD BLOCKING TO ELEVATE AND SLOPE THE PANELS IN A MANNER THAT WILL ALLOW MOISTURE TO DRAIN. WOOD BLOCKING PLACED BETWEEN PANEL BUNDLES WILL PROVIDE ADDITIONAL AIR CIRCULATION. COVER THE AREA BENEATH PANELS WITH POLYETHYLENE OR A TARPAULIN TO PREVENT DIRT AND DEBRIS FROM ENTERING FEMALE SEAM.



RC51 PANEL STORAGE SA STANDING SEAM



AND PLACED ON THE ROOF IF LOCATED AT A RIGID FRAME AND WITH BLOCKING IN PLACE TO PREVENT THE PURLINS FROM ROLLING OVER. DO NOT SLIDE BUNDLED PANELS ALONG ROOF FRAMING. WHEN LIFTING BUNDLED SHEETS, MAKE CERTAIN THAT THE BUNDLE IS ADEQUATELY SUPPORTED. AS A RULE WHEN LIFTING, NO MORE THAN 1/3 OF THE LENGTH OF THE PANEL SHOULD BE LEFT UNSUPPORTED.
REFER TO ERECTION DRAWINGS FOR THE ROOF PANEL MARKINGS AND STAGE
BUNDLES ACCORDINGLY. THIS WILL MINIMIZE PANEL HANDLING AND SPEED THE ERECTION

PANEL STORAGE ON ROOF RC54 AA

### ROOF AND WALL PANELS

ROOF AND WALL PANELS INCLUDING COLOR COATED, ALUMINUM COATED AND GALVANIZED, PROVIDE EXCELLENT SERVICE UNDER WIDELY VARIED CONDITIONS, ALL UNLOADING AND ERECTION PERSONNEL SHOULD FULLY UNDERSTAND THAT THESE PANELS ARE QUALITY MERCHANDISE WHICH MERIT CAUTIOUS CARE IN HANDLING.

UNDER NO CIRCUMSTANCES SHOULD PANELS BE HANDLED ROUGHLY. PACKAGES OF SHEETS SHOULD BE LIFTED OFF THE TRUCK WITH EXTREME CARE TAKEN TO INSURE THAT NO DAMAGE OCCURS TO ENDS OF THE SHEETS OR TO SIDE RIBS. THE PACKAGES SHOULD BE STORED OFF THE GROUND SUFFICIENTLY HIGH ENOUGH TO ALLOW AIR CIRCULATION UNDERNEATH THE PACKAGES, THIS AVOIDS GROUND MOISTURE AND DETERS PEOPLE FROM WALKING ON THE PACKAGES, ONE END OF THE PACKAGES SHOULD ALWAYS BE ELEVATED ABOVE THE LOWER END TO ENCOURAGE DRAINAGE IN CASE OF RAIN.

ALL METAL PANELS ARE SUBJECT TO SOME DEGREE TO LOCALIZED DISCOLORATION OR STAIN WHEN WATER IS TRAPPED BETWEEN THEIR CLOSELY FITTED SURFACES, PANEL MANUFACTURER EXERCISES EXTREME CAUTION DURING FABRICATING AND SHIPPING OPERATIONS TO INSURE THAT ALL PANEL STOCK IS KEPT DRY. HOWEVER, DUE TO CLIMATIC CONDITIONS, WATER FORMED BY CONDENSATION OF HUMID AIR CAN BECOME TRAPPED BETWEEN STACKED SHEETS, WATER CAN ALSO BE TRAPPED BETWEEN THE STACKED SHEETS WHEN EXPOSED TO RAIN. THIS DISCOLORATION CAUSED BY TRAPPED MOISTURE IS OFTEN CALLED WET STORAGE STAIN.

THE STAIN IS USUALLY SUPERFICIAL AND HAS LITTLE EFFECT ON THE APPEARANCE OR SERVICE LIFE OF THE PANELS AS LONG AS IT IS NOT PERMITTED TO REMAIN ON THE PANELS, HOWEVER, MOISTURE IN CONTACT WITH THE SURFACE OF THE PANELS OVER AN EXTERDED PERIOD CAN SEVERELY ATTACK THEIR FINISH AND REDUCE THEIR EFFECTIVE SERVICE LIFE. THEREFORE, IT IS IMPERATIVE THAT ALL PANELS BE INSPECTED FOR MOISTURE UPON RECEIPT OF THE ORDER. IF MOISTURE IS PRESENT, DRY THE PANELS AT ONCE AND STORE IN A DRY, WARM PLACE, IF POSSIBLE.

WHEN HANDLING OR UNCRATING THE PANELS, LIFT, RATHER THAN SLIDE, THEM APART. BURRING EDGES MAY SCRATCH THE COATED SURFACES WHEN SHEETS ARE SLID OVER ONE ANOTHER. NEVER ALLOW PANELS TO BE WALKED ON WHILE ON THE GROUND.

ROUGH AND IMPROPER HANDLING OF PANELS IS INEXCUSABLE AND A PRIME EXAMPLE OF POOR JOB

CAUTION: PANELS ARE SLIPPERY. OIL OR WAX THAT HAS BEEN USED ON THE ROOF AND WALL PANELS FOR PROTECTION AGAINST WEATHER DAMAGE WILL MAKE THEM A VERY SLIPPERY WALKING SURFACE. WIPE DRY ANY OIL THAT HAS PUDDLED FROM BUNDLES STORED ON A SLOPE. DEW, FROST OR OTHER FORMS OF MOISTURE GREATLY INCREASE THE SLIPPERINESS OF THE PANELS.

PANEL STORAGE NOTES

RC95 AA

DWN:/CKD: ENGR DATE RELEASE / REVISION DWN:/CKD: ENGR DATE RELEASE / REVISION 2 REVISED APPROVALS HRH / JV 08/03/2017 1 REVISED APPROVAL RCC / RCC JV 06/14/2017 0 FOR APPROVAL ONLY RCC / RCC JV 06/12/201

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CAROLINA DIESEL TRUCKS 62 PROGRESS DRIVE FUQUAY VARINA, NC 27526 THOMAS ANDREWS

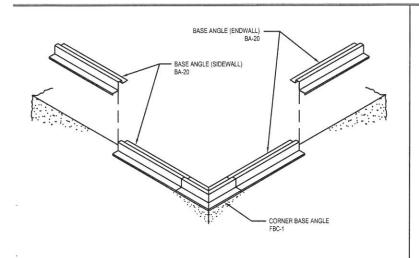




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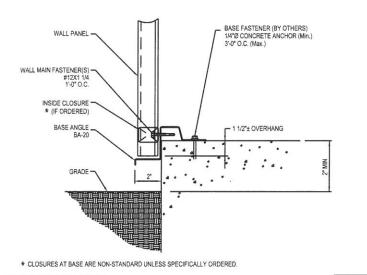
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SED-008



BASE ANGLE DETAIL BA01 AB

PUSH HERE ONLY!



BA02

AB

GT01

AA

TAPE MASTIC 3/4 TM EAVE STRUT URETHANE CAULK GTS - EAVE CLOSURE FLASHING - OUTSIDE CLOSURE AOLI 1/8 RIVET (3) PER LAP ARCHITECTURAL III PANEL * SIMILAR AT CLEATED EAVE

EAVE CLOSURE FLASHING

OUTSIDE CLOSURE INSTALLATION AT EAVE EA37 AC

OUTSIDE CORNER FLASHING FCRA2 (ARCHITECTURAL III WALLS)
TCAV (ARCHITECTURAL "V" RIB WALLS) BLIND RIVET 1/8 RIVET (6) PER FLASHING LAP

OUTSIDE CORNER FLASHING ARCHITECTURAL III OR ARCHITECTURAL "V" RIB WALLS

DOWNSPOUT CLIP -

FL08 AC

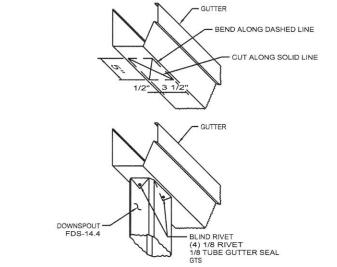
## THINGS TO REMEMBER

1. THINK SAFETY.

- 2. CARE FOR PANELS IN ACCORDANCE WITH ERECTION GUIDE.
- 3. ALIGN GIRT.
- 4. PLUMB FIRST AND EVERY PANEL.
- 5. CHECK COVERAGE ON EVERY PANEL. 6. FOLLOW SCREW ATTACHMENT SEQUENCE:
- TRAILING TO LEADING. ТОР ТО ВОТТОМ.
- 7. DO NOT EXCEED INSULATION THICKNESS (6" MAX.).
- 8. DO NOT "RATCHET" OR OVERTIGHTEN WALL PANEL SCREWS. THIS WILL CAUSE "DIMPLING".
- 9. USE THE RIB OF THE ARCHITECTURAL PANEL TO APPLY PRESSURE WHEN INSTALLING. (SEE EXAMPLE) DO NOT DISTORT PANEL FLATS.
- 10. DO NOT USE ABRASIVE SAWS OR OTHER CUTTING TOOLS WHICH PRODUCE HOT METAL PARTICLES OR BURNED EDGES. THESE METHODS WILL DAMAGE THE PAINTED AND GALVALUME FINISH AND WILL VOID ANY WARRANTIES. USE DOUBLE CUT SHEARS, NIBBLERS OR OTHER CUTTING DEVICES WHICH

DO NOT PRODUCE HOT METAL PARTICLES OR BURNED EDGES.

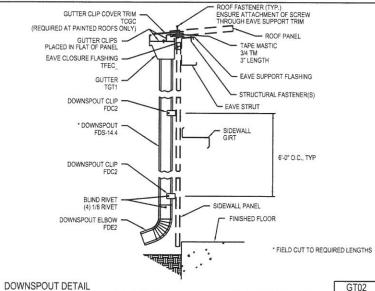
GE04 AC PANEL INSTALLATION NOTES ARCHITECTURAL III WALL PANELS



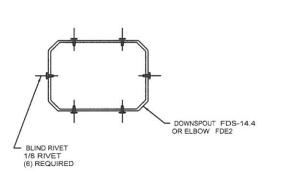
DOWNSPOUT OUTLET DETAIL

SECTION AT BASE ANGLE

ARCHITECTURAL III, ARCHITECTURAL "V" RIB OR LONG SPAN III WALLS



FDC2 6'-0" O.C. BLIND RIVET FDS-14.4 1/8 RIVET (2) PER CLIP TO WALL PANEL SIDEWALL PANEL BLIND RIVET 1/8 RIVET (2) PER CLIP TO DOWNSPOUT SECTION THROUGH DOWNSPOUT GT03 AA

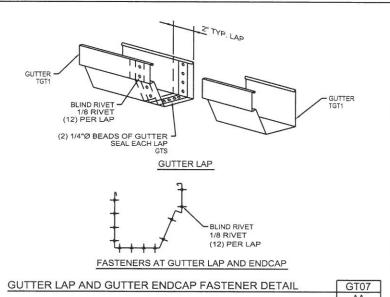


RIVET LOCATIONS AT DOWNSPOUT LAP OR ELBOW

GT04 AA

EAVE	DOWNSPOUTS	DOWNSPOUT CLIPS (FDC2)
10'	1 PC. FDS-14.4 & 1 PC. FDE2	2
12'	1 PC. FDS-14.4 & 1 PC. FDE2	2
14'	1 PC. FDS-14.4 & 1 PC. FDE2	3
16'	1 1/2 PC. FDS-14.4 & 1 PC. FDE2	3
18'	1 1/2 PC. FDS-14.4 & 1 PC. FDE2	4
20'	1 1/2 PC, FDS-14.4 & 1 PC, FDE2	4
22'	1 1/2 PC. FDS-14.4 & 1 PC. FDE2	4
24'	2 PC. FDS-14.4 & 1 PC. FDE2	5
26'	2 PC. FDS-14.4 & 1 PC. FDE2	5
28'	2 PC. FDS-14.4 & 1 PC. FDE2	6
30'	2 1/2 PC. FDS-14.4 & 1 PC. FDE2	6
32'	2 1/2 PC. FDS-14.4 & 1 PC. FDE2	6
34'	2 1/2 PC. FDS-14.4 & 1 PC. FDE2	7
36'	2 1/2 PC. FDS-14.4 & 1 PC. FDE2	7
38'	3 PC. FDS-14.4 & 1 PC. FDE2	8
40'	3 PC. FDS-14.4 & 1 PC. FDE2	8

DOWNSPOUT SCHEDULE GT06 AA



2" TYP. LAP
GUTTER TGT1
BLIND RIVET  1/8 RIVET  (12) PER LAP
(2) 1/4"Ø BEADS OF GUTTER J SEAL EACH LAP GTS GUTTER LAP
<u></u>
BLIND RIVET 1/8 RIVET (12) PER LAP
FASTENERS AT GUTTER LAP AND ENDCAP
GUTTER LAP AND GUTTER ENDCAP FASTENER DETAIL GT07 AA

**NOT FOR CONSTRUCTION**

CAROLINA DIESEL TRUCKS 62 PROGRESS DRIVE FUQUAY VARINA, NC 27526 THOMAS ANDREWS

GT02

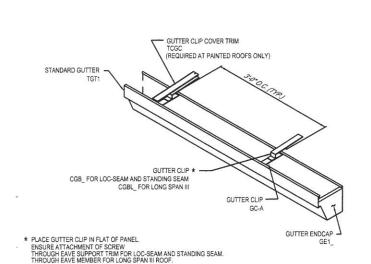
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MBMA

FOR APPROVAL ONLY AMERICAN BUILDINGS SOFTWARE VERSIONS DESIGN: MSA 47.3 BIM: v20.6

JOB NUMBER: A17B0157A SED-009

0	RELEASE / REVISION	DWN:/CKD:	ENGR	DATE	NO	RELEASE / REVISION	DWN: / CKD:	ENGR	DATE
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0	FOR APPROVAL ONLY	RCC / RCC	JV	06/12/2017		-	•		



**GUTTER CLIP PLACEMENT DETAIL** 

GT18A AA

HE PROPER ERECTION PROCEDURES FOR ALL JOBS. TURN VINYL BACK, INSULATION MUST NOT BE EXPOSED TO WEATHER BASE ANGLE -NOTE: BASE MEMBER MAY BE DIFFERENT FROM WHAT IS SHOWN.

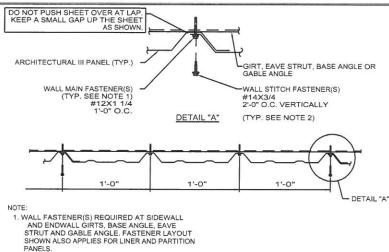
CORNER FLASHING

SUGGESTED INSULATION DETAIL AT WALL PANEL BASE

CAP FLASHING (SEE NOTE 2) ALL TRIM FASTENER(S) 1'-0" O.C. 1. OUTSIDE CLOSURE, AOLI/AVPO/LOAI REQUIRED FOR BUILDING SLOPES 1 1/2 : 12 OR LESS CAP FLASHING, FCP1
 REQUIRED FOR BUILDING SLOPES OUTSIDE CLOSURE (SEE NOTE 1) GREATER THAN 1 1/2:12

PANEL CLOSURE DETAIL AT RAKE

ARCHITECTURAL III, ARCHITECTURAL "V" RIB OR LONG SPAN III WALLS



PANELS.

2. PANEL STITCH FASTENER(S) AS SHOWN REQ'D. ONLY AT PANEL SIDELAPS OR AT FLASHING LAPS AND FLASHING TO PANEL CONNECTIONS.

**FASTENER LAYOUT** 

ARCHITECTURAL III WALLS

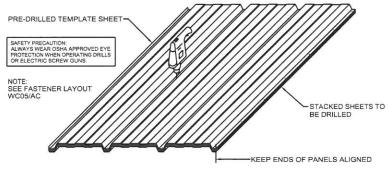
RA01

AB

WC05 AC

GOOD ALIGNMENT OF THE FASTENERS WILL GIVE A PROFESSIONAL APPEARANCE OF SHEET INSTALLATION. THIS CAN BE ACCOMPLISHED BY PRE-DRILLING HOLES IN THE SHEETS AT IDENTICAL LOCATIONS. UP TO 15 SHEETS CAN BE STACKED TOGETHER AND DRILLED USING A TEMPLATE SHEET. USE 1/8" OR 5/32" DIAMETER DRILL BIT FOR SHEET TO STRUCTURAL FASTENERS, AND A 1/4" DIAMETER BIT FOR THE SIDELAP CLEARANCE HOLES CLEAN METAL FILINGS OFF PANEL SURFACES AFTER DRILLING TO AVOID RUST STAINS.

THE TEMPLATE SHEET SHOULD BE LAID OUT IN ACCORDANCE WITH THE BUILDING ERECTION DRAWINGS. SINCE PRE-DRILLING WILL "HAND" THE SHEETS IT IS NECESSARY TO SELECT THEND OF THE BUILDING FROM WHICH THE SHEETING IS TO BEGIN. PRIOR TO DRILLING THE TEMPLATE SHEET IT SHOULD BE CHECKED FOR PROPER HOLE LOCATIONS AGAINST THE BUILDING FRAMEWORK. BE SURE THERE IS NO SAG IN THE PURLINS OR GIRTS.

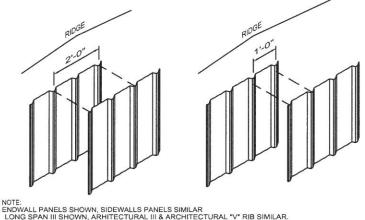


PRE-DRILLING FOR FASTENER LOCATIONS

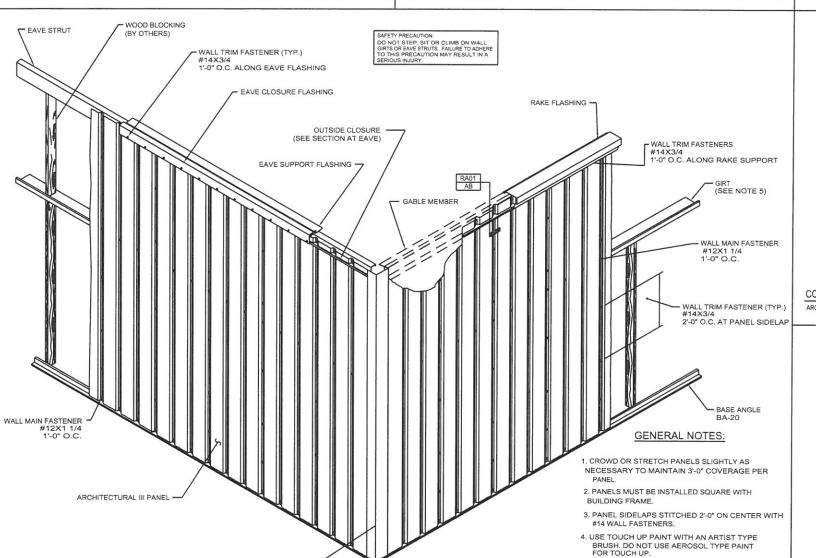
ARCHITECTURAL III WALL PANELS

WC08 AC

BACKLAPPING THE PANELS 1' OR 2' IS ROUTINELY DONE TO MATCH PANEL COVERAGE WITH THE BUILDING WIDTH AND LENGTH, ON THE SIDEWALL THIS IS DONE WITH THE LAST PANEL INSTALLED. ON THE ENDWALL THIS IS DONE AT THE RIDGE AND WILL BE MARKED ON THE ERECTION DRAWINGS.



PANEL BACKLAPPING WC75 ARCHITECTURAL III, ARCHITECTURAL "V" RIB OR LONG SPAN III WALLS AB



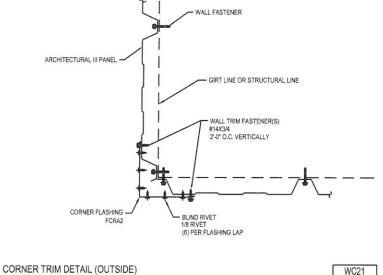
BASE ANGLE CORNER

ARCHITECTURAL III WALLS

TYPICAL CORNER DETAIL AT PANELS

IN02

AA



WC21 AC ARCHITECTURAL III WALLS

CAROLINA DIESEL TRUCKS 62 PROGRESS DRIVE FUQUAY VARINA, NC 27526 THOMAS ANDREWS

5. GIRTS ARE TO BE BLOCKED TO MAINTAIN VERTICAL GIRT FLANGES. FAILURE TO MAINTAIN VERTICAL GIRT FLANGES WILL CAUSE DIMPLING OF PANELS AT

WC20

AC

SCREW LOCATIONS.

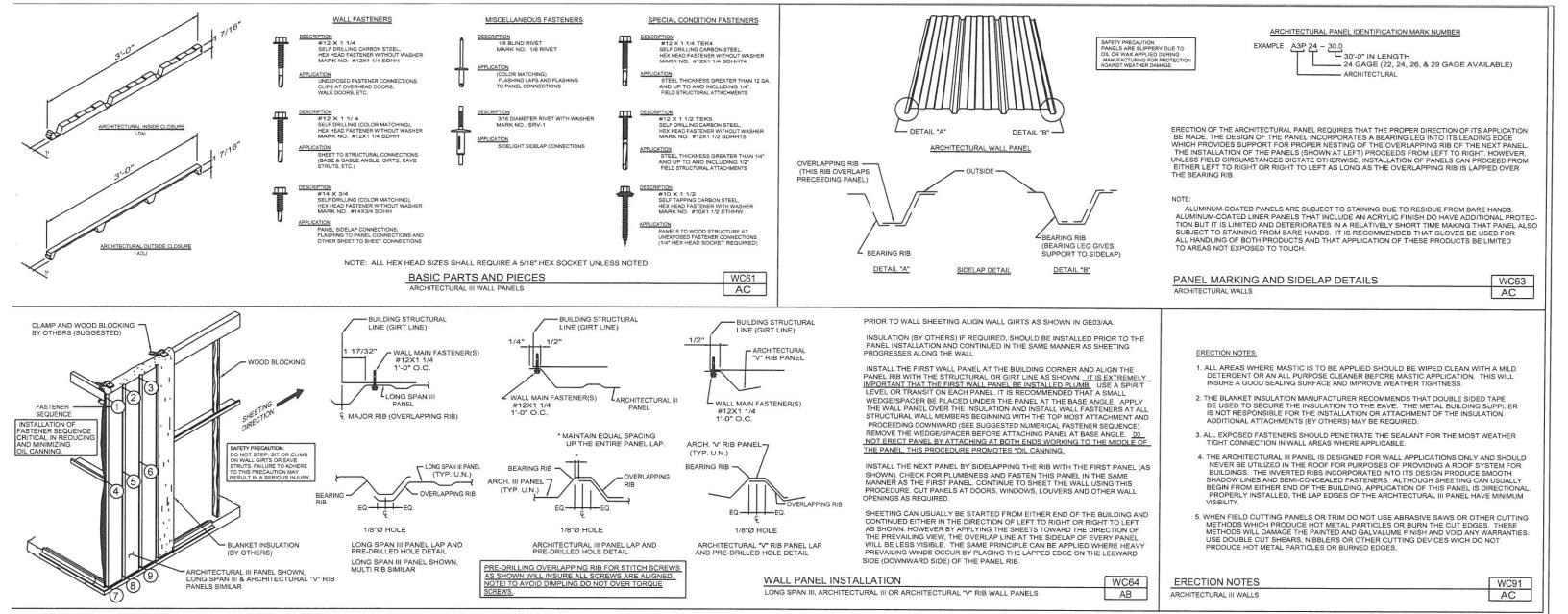
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JOB NUMBER A17B0157A SED-010



RELEASE / REVISION

2 REVISED APPROVALS 0 FOR APPROVAL ONLY DWN:/CKD: ENGR DATE

RCC / RCC JV 06/12/201

JV | 08/03/2017

HRH /

RELEASE / REVISION

1 REVISED APPROVAL

DWN:/CKD: ENGR DATE

RCC / RCC | JV | 06/14/2017

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CAROLINA DIESEL TRUCKS 62 PROGRESS DRIVE FUQUAY VARINA, NC 27526 THOMAS ANDREWS

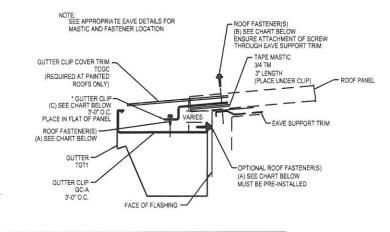




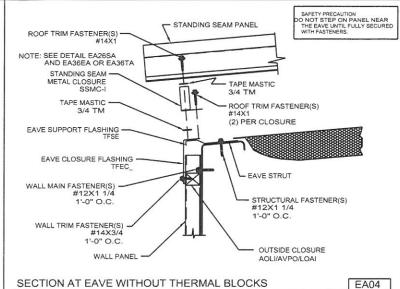
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JOB NUMBER: SHEET:

A17B0157A SED-011



ROOF FASTENER (B) (1) PER CLIP ROOF PANEL ROOF FASTENER (A) (1) PER CLIP GUTTER CLIP (C) LOC SEAM (LOC CGB STANDARD GUTTER DETAIL EA01 AA

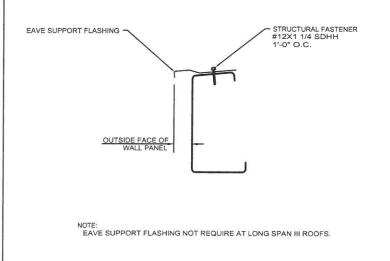


- CLOSURE

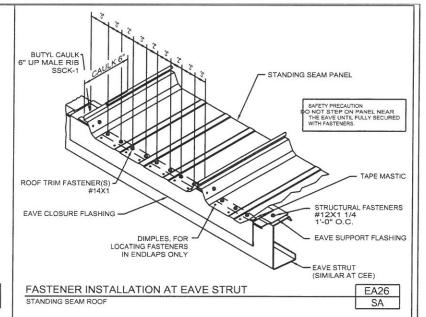
SEE NOTE

- EAVE SUPPORT FLASHING

OUTSIDE CLOSURE



EAVE SUPPORT FLASHING ATTACHMENT ARCHITECTURAL III, ARCHITECTURAL "V" RIB OR LONG SPAN III WALL PANELS



STANDING SEAM PANEL

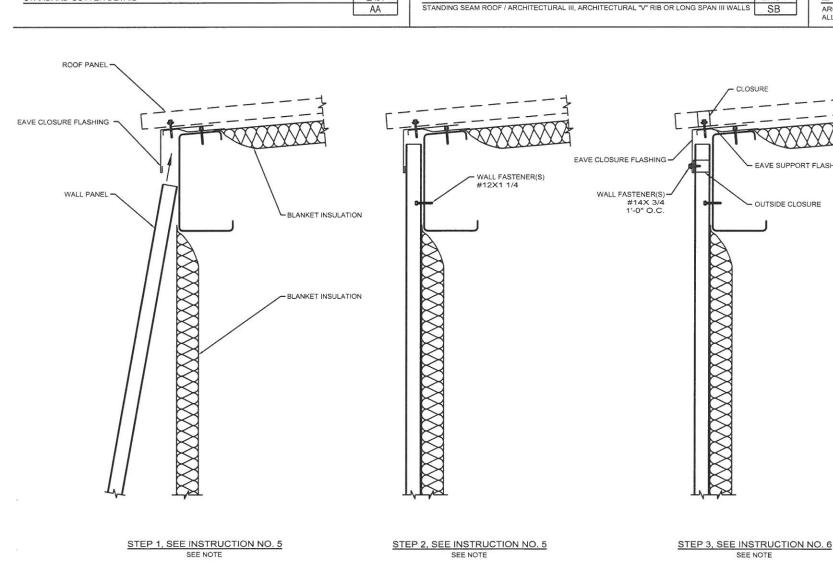
· INSIDE METAL CLOSURE

3/4 TM CONTINUOUS

ROOF TRIM FASTENER(S)

**EA27** 

SA



 PRIOR TO SHEETING THE ROOF OR WALL, THE STRUCTURAL FRAMING MUST BE SQUARE AND PLUMB. 2. BLOCK OR SUPPORT THE GIRTS AND EAVE STRUT TO PREVENT THE SUB FRAMING FROM SAGGING. BLOCKING MUST BE USED BETWEEN ENDWALL COLUMNS AND SIDEWALL COLUMNS AND SHOULD REMAIN IN PLACE UNTIL ALL WALL SHEETS ARE INSTALLED. 3. PLACE THE EAVE SUPPORT FLASHING ON THE EAVE STRUT, LEAVING AN 1 1/2" OPENING BETWEEN THE OUTSIDE FACE OF THE EAVE STRUT AND THE INSIDE OF THE EAVE SUPPORT FLASHING. (A 2 X 4 WORKS WELL TO OBTAIN THIS SPACE). THE 11/2" OPENING WILL ACCOMMODATE THE ARCHITECTURAL III, ARCHITECTURAL V"> RIB OR LONG SPAN III WALL PANELS. AN OPENING OF 3 1/8" MUST BE MAINTAINED FOR SHADOW PANELS. SECURE THE EAVE SUPPORT FLASHING WITH #12 X 1 1/4" SELF DRILL FASTENERS LOCATED 1'-0" O.C. THESE ARE PERMANENT FASTENERS AND MUST

**INSTRUCTIONS** 

4. INSTALL THE ROOF PANELS ACCORDING TO THE APPROPRIATE MANUAL AND/OR ERECTION DRAWINGS. REMEMBER THE PANEL OVERHANG DIMENSION IS USUALLY FROM THE FACE OF THE EAVE STRUT AND SHOULD BE MEASURED AS REQUIRED BY THE ERECTION DRAWINGS

BE INSTALLED. REMOVE ANY SPACERS USED FROM BEHIND THE EAVE SUPPORT FLASHING. INSTALL EAVE CLOSURE FLASHING (TFEC_). EAVE CLOSURE IS HELD INPLACE BY ROOF FASTENERS AT EAVE AND MUST BE INSTALLED WITH ROOF PANEL.

5. WALL PANELS AND INSULATION MAY NOW BE INSTALLED. SECURE THE INSULATION TO THE FACE OF THE EAVE STRUT AND BASE ANGLE ACCORDING TO MANUFACTURERS RECOMMENDATIONS. SLIDE THE WALL PANEL BETWEEN THE EAVE STRUT AND EAVE CLOSURE FLASHING, PLUMB THE PANEL AND SECURE WITH THE WALL FASTENERS. FASTENERS MUST BE INSTALLED BELOW THE EAVE TRIM.

6. INSTALL THE PANEL CLOSURES AND SECURE THE EAVE CLOSURE FLASHING TO THE WALL PANELS.

SHADOW PANEL INSTALLATION SHALL VARY FROM THE DETAILS SHOWN. SEE THE SHADOW

PANEL ERECTION DRAWINGS FOR FASTENER AND FLASHING DETAILS.

ROOF SHEETING PRIOR TO WALL SHEETING INSTRUCTIONS EA11

AA

EA10

AA

## **NOT FOR CONSTRUCTION*'

CAROLINA DIESEL TRUCKS 62 PROGRESS DRIVE FUQUAY VARINA, NC 27526 THOMAS ANDREWS

AMERICAN BUILDING ANUCOR MBMA

START 1" FROM EDGE OF EAVE

TAPE MASTIC 3/4 TM TOP SIDE OF SSMC-

EAVE SUPPORT FLASHING

LOW EAVE CAULK DETAIL

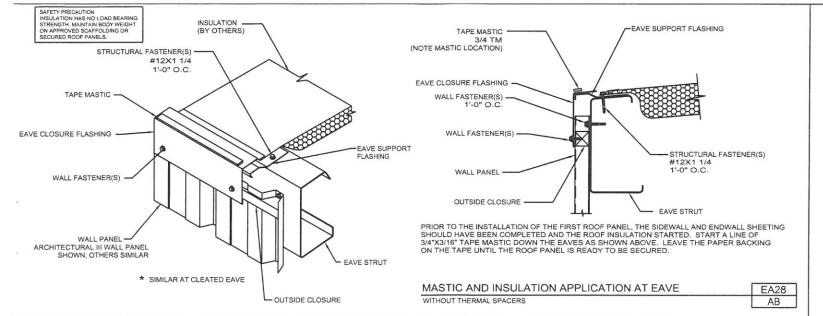
STANDING SEAM ROOF

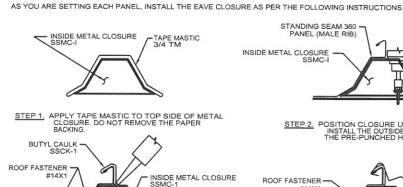
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FOR APPROVAL ONLY SOFTWARE VERSIONS DESIGN: MSA 47.3 BIM: v20.6

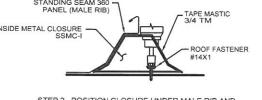
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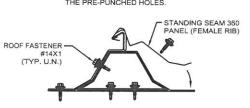




STEP 4. INSTALL EAVE FASTENERS IN THE FLAT OF THE PANEL IN THE CORRECT PATTERN. INSTALL A FASTENER THROUGH THE SIDE OF THE CLOSURE AS SHOWN ABOVE. APPLY CAULKING TO THE INSIDE FACE OF THE SEAM OVER THE CLOSURE.



STEP 2. POSITION CLOSURE UNDER MALE RIB AND INSTALL THE OUTSIDE FASTENER THROUGH THE PRE-PUNCHED HOLES.





STEP 3. LIFT PANEL AND INSTALL THE INSIDE FASTENER. REMOVE THE PAPER FROM THE MASTIC AND PRESS THE PANEL FIRMLY IN PLACE.

STANDING SEAM 360 (MALE RIB) (FEMALE RIB)

TAPE MASTIC 3/4 TM

ROOF FASTENER

STANDING SEAM 360 PANEL (MALE RIB)

STEP 5. INSTALL THE NEXT PANEL RUN AND REPEAT STEPS 1 - 4. BE SURE TO INSTALL A ROOF FASTENER INTO THE SIDE OF THE NEXT PANEL AS SHOWN ABOVE.

A PROPERLY COMPLETED RIB CLOSURE

INSIDE METAL CLOSURE INSTALLATION STANDING SEAM 360

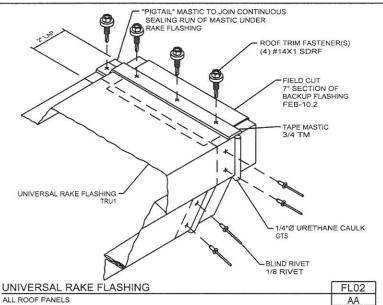
EA36 TA

INSIDE METAL CLOSUF SSMC-I

TAPE MASTIC 3/4 TM

ROOF FASTENER

#14X1 (TYP. U.N.)



REF. DETAILS FL06AA, RC35AAA & RC35WAA

## ROOF FLASHING LAPS AND END TRANSITIONS EXPOSED TO ROOF CONDITIONS

- 1. ROOF FLASHING LAPS SHALL BE SEALED WITH 3/4 X 3/16 TAPE MASTIC (3/4 TM).
- 2. FIELD CUT FEB-10.2 BACKUP FLASHING TO REINFORCE FLASHING ENDLAPS AND TERMINATIONS. INSTALL FEB AS SHOWN IN CONNECTION DETAILS (INBOARD) OF MASTIC, CLOSURES AND SUPPORT MEMBERS.

EXTRA CARE SHOULD BE TAKEN: DO NOT EXTEND FEB INTO THE MASTIC DO NOT EXTEND FEB BEYOND THE BUILDING ENVELOPE FEB EXTENDED BEYOND THE BUILDING ENVELOPE INTERUPTS THE

GASKET CREATED BY THE CONTINUOUS MASTIC APPLICATION. ADJUST FIELD CUT FEB LENGTHS AS REQUIRED

- 3. STANDARD FASTENER SPACING AS SHOWN ON CONNECTION DETAILS WILL NEED TO VARY TO ENSURE A COMPLETE GASKET SEAL AT SOME LOCATIONS. INCLUDING (BUT NOT LIMITED TO) THE FOLLOWING.
  - DECREASE STITCH FASTENER SPACING FROM 6" O.C. TO 3" O.C. AT FLASHING LAPS AND TRANSITIONS.

EXAMPLES: RIDGE FLASHING TO RAKE CAP HIP FLASHING TO TRCZ AT EAVE RIDGE CAP TO PEAK BOX

 AT ALL EXPOSED ROOF FLASHINGS ENDLAPS INSTALL A STITCH FASTENER THROUGH THE UPPER FLASHING 2 1/2" FROM THE ENDLAP. (SEE DETAIL RC35WAA)

- 4. VALLEY GUTTER LAPS SHALL BE SEALED WITH 2 X 3/16 TAPE MASTIC (2 TM) AND SHALL BE STITCHED WITH #14 ROOF FASTENERS 2" ON CENTER. QUANTITY WILL VARY WITH **GUTTER SIZE**
- 5. PREDRILL 1/4"Ø HOLES AT UPPER AND LOWER FLASHING FOR #14 FASTENERS. DO NOT PREDRILL FEB BACKUP FLASHING.
- 6. FOR ROOF FLASHING LAPS NOT SHOWN IN DETAILS, THAT ARE EXPOSED TO ROOF CONDITIONS, USE THE FOLLOWING AS A GUIDE;
  - REINFORCE THE TOP SIDE OF ALL FLASHING END TRANSITIONS EXPOSED TO ROOF CONDITIONS USING #14 ROOF FASTENERS, 3" ON CENTER THROUGH MASTIC AND FIELD CUT FEB-10.2 (AS SPACE ALLOWS)

### FLASHING LAPS NOT SHOWN AND NOT EXPOSED TO ROOF CONDITIONS

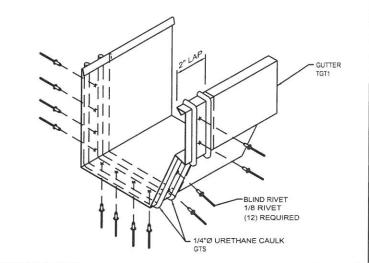
FLASHING LAPS AND TRANSITIONS - GENERAL REQUIREMENTS

- 7. FOR FLASHING LAPS NOT SHOWN AND NOT EXPOSED TO ROOF CONDITIONS, USE THE FOLLOWING AS A GUIDE;
  - USE I/8 INCH BLIND RIVETS 3" ON CENTER

## GENERAL REQUIREMENTS

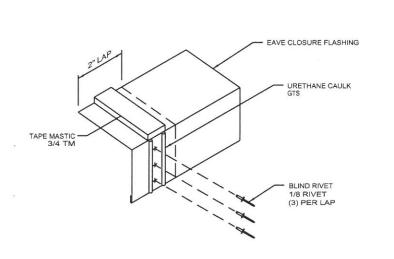
8. ALL FLASHING LAPS SHALL BE TWO INCHES.

FL06 AA



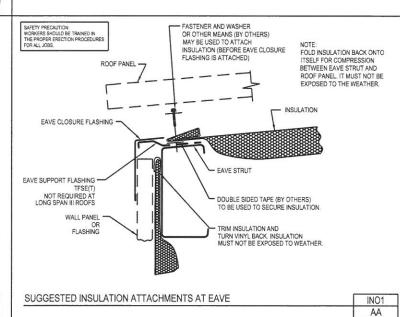
STANDARD GUTTER

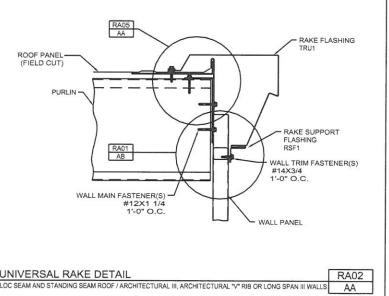
FL09 AA



EAVE CLOSURE FLASHING

STANDARD FLASHING LAP





UNIVERSAL RAKE DETAIL LOC SEAM AND STANDING SEAM ROOF / ARCHITECTURAL III, ARCHITECTURAL "V" RIB OR LONG SPAN III WALLS AA

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CAROLINA DIESEL TRUCKS 62 PROGRESS DRIVE FUQUAY VARINA, NC 27526 THOMAS ANDREWS





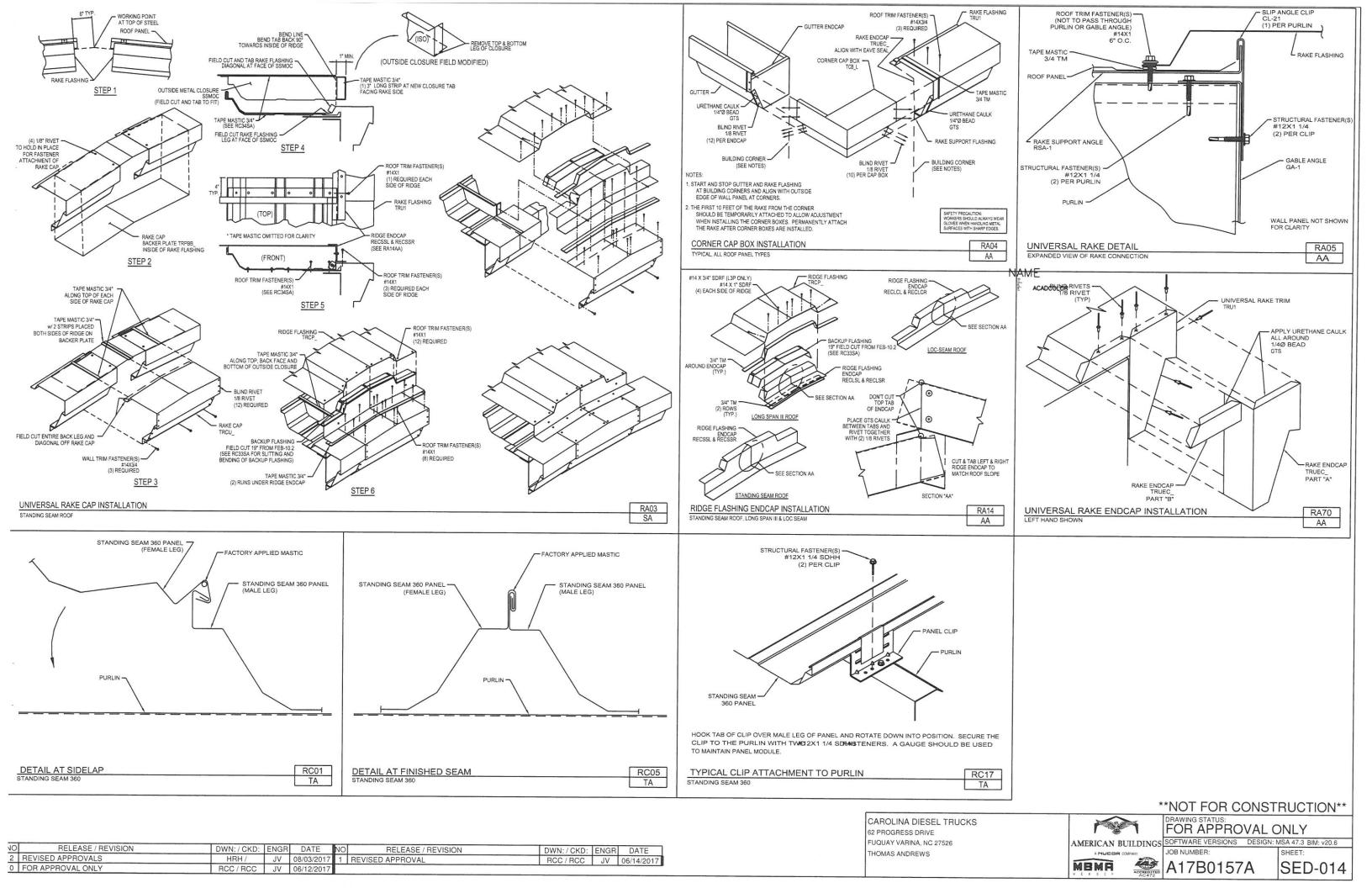
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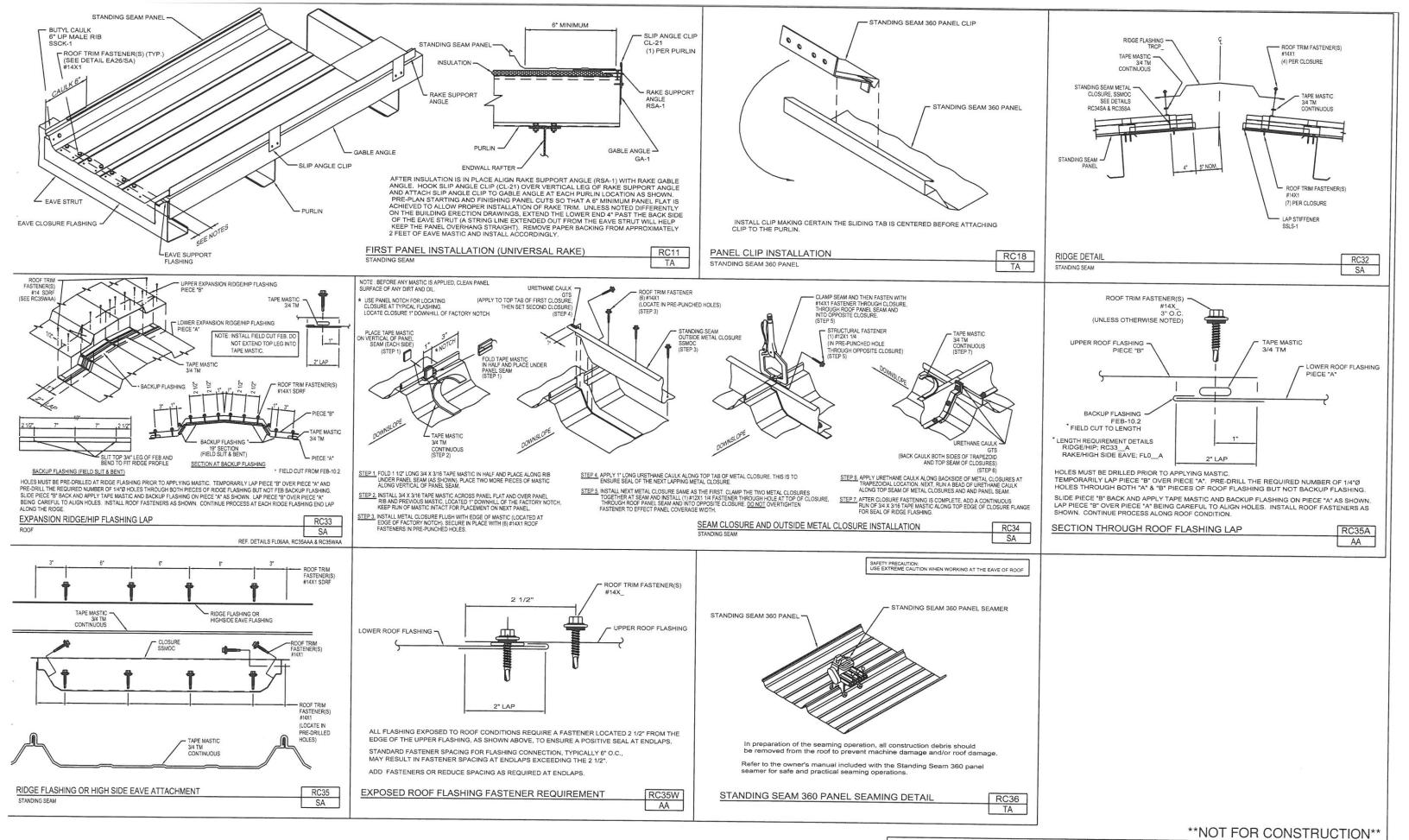
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FL14

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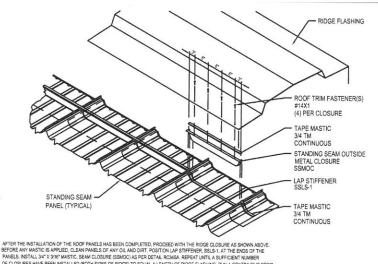
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CAROLINA DIESEL TRUCKS 62 PROGRESS DRIVE FUQUAY VARINA, NC 27526 THOMAS ANDREWS

RAWING STATUS OR APPROVAL ONLY AMERICAN BUILDINGS SOFTWARE VERSIONS DESIGN: MSA 47.3 BIM: v20.6

JOB NUMBER: MBMA A17B0157A

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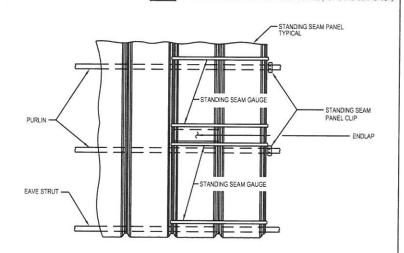
OF CLOSURES HAVE BEEN INSTALLED (BOTH SIDES OF RIDGE) TO EQUAL A LENGTH OF RIDGE FLASHING. RUN A CONTINUOUS STRIP OF 34" X 3/16" MASTIC OVER THE TOP OF THE CLOSURES AND APPLY THE RIDGE FLASHING.

RIDGE FLASHING ATTACHMENT

STANDING SEAM

SA REF. DETAILS RC34SA, RC33SA & RC35WAA

THE STANDING SEAM GAUGE BAR CAN BE USED IN ADDITION TO THE PANEL MODULARITY INSTALLATION DETAILS (RC71SA/RC72SA/RC73SA)



STANDING SEAM PANEL GAUGE LOCATIONS

RC42 SA

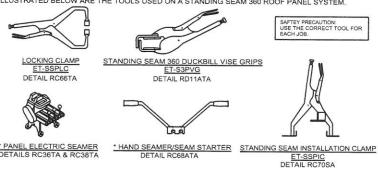
PANELS ARE DIMPLED AT BOTH ENDS. DIMPLES ARE USED FOR FASTENER LOCATIONS AT THE PANEL ENDLAPS ONLY.

DETAIL "A" (MALE EDGE)

PANEL MARKING AND NOTCHING

STANDING SEAM 360 PANEL ROOF SYSTEM HAS UNIQUE SIDELAP SEAMS WHICH ENGAGE THE ADJACENT PANEL TO FORM A TIGHT PENETRATION FREE CONNECTION. THE PANEL IS ATTACHED TO THE SUPPORT FRAMING BY A SPECIAL STANDING SEAM 360 PANEL CLIP WHICH IS INTERLOCKED WITHIN THE SEAM AND FASTENED TO THE PURLIN WITH SELF-PRILLING FASTERS. THE PROPER INSTALLATION OF THE PANEL WILL REQUIRE TOOLS SPECIALLY DESIGNED FOR THIS PURPOSE.

ILLUSTRATED BELOW ARE THE TOOLS USED ON A STANDING SEAM 360 ROOF PANEL SYSTEM.

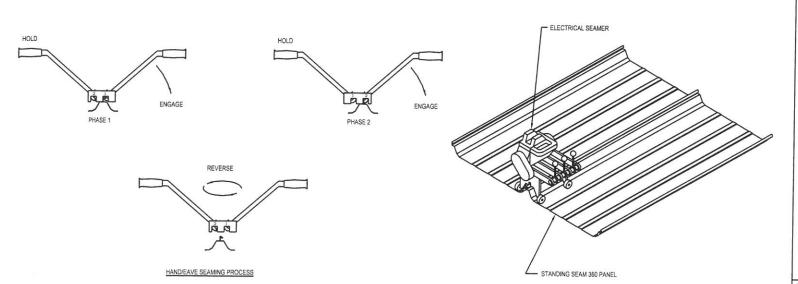


* AVAILABLE FOR PURCHASE OR RENTAL THROUGH

D.I. ROOF SEAMERS 915 HIGHWAY 45 **CORINTH, MS 38834** 888.343.0456 WWW.EAGLESEAMERS.COM

STANDING SEAM 360 ERECTION TOOLS

RC62 TA



THE METAL BUILDING SUPPLIER FURNISHES THE STANDING SEAM 360 ROOF SYSTEM IN NON-HANDED PANELS. GABLE, SINGLE SLOPE OR UNSYMMETRICAL BUILDINGS CAN BE SHEETED SIMULTANEOUSLY FROM EITHER END OF THE BUILDING

THE SEAMING PROCESS INVOLVES TWO DIFFERENT TOOLS, THE STANDING SEAM 360 ELECTRIC ROOF SEAMER AND THE HAND/EAVE SEAMER. THE STANDING SEAM 360 HAND/EAVE SEAMER IS A TWO STAGE TOOL USED AT THE STARTING END OF EACH PANEL (EAVE OR RIDGE) PRIOR TO SEAMING WITH THE ELECTRIC SEAM

- IN THE FIRST STAGE PLACE PHASE 1 SIDE OF THE SEAMER ONTO THE OPEN SIDE OF THE SEAM AT THE END OF THE PANEL AND ENGAGE THE TOOL TO A FULLY CLOSED POSITION. REMOVE THE SEAMER AND MOVE UP THE SLOPE THE WIDTH OF THE SEAMER JAWS (APPROXIMATELY FOUR INCHES) AND ENGAGE THE TOOL TO A FULLY CLOSED POSITION. THIS SHOULD COMPLETE THE FIRST
- REMOVE THE SEAMER AND REVERSE THE DIRECTION SO THAT PHASE 2 SIDE OF THE SEAMER IS PRESSED ONTO THE OPEN SIDE OF THE SEAM, STARTING AT THE PANEL END ENGAGE THE TOOL TO A FULLY CLOSED POSITION TO COMPLETE THE SEAM. DO THIS STEP ONLY ONCE FOR THE SEAM IS NOW READY FOR THE ELECTRIC SEAMER.

THE STANDING SEAM 360 ELECTRIC ROOF SEAMER IS A SINGLE DIRECTION MACHINE USED FOR SEAMING THE PANELS TOGETHER AT THE SIDELAPS. GABLE BUILDINGS WILL REQUIRE THE SEAMER TO START AT THE EAVE ON ONE SIDE OF THE BUILDING AND TRAVEL UP THE SLOPE TO THE RIDGE AND THEN TRAVEL DOWN THE SLOPE TO THE EAVE ON THE OPPOSITE SIDE OF THE BUILDING. SINGLE SLOPE BUILDINGS WILL REQUIRE THE SEAMER TO START AT EITHER THE HIGH OR LOW SIDE OF THE BUILDING DEPENDING UPON THE SHEETING DIRECTION.

• TO START THE SEAMING PROCESS, PLACE THE ELECTRIC SEAMER IN POSITION WITH THE THREE HANDLES IN THE UNLOCKED POSITIONS. THE SEAM ROLLERS SHOULD BE ON THE OPEN SIDE OF THE SEAM AND THE BACK OF THE SEAMER SHOULD BE ALIGNED WITH THE END OF PANEL (THE HANDLES NESSEAMING OPERATION AT THE STARTING END OF THE PANEL SHOULD HAVE ALREADY BEEN COMPLETED). LOCK THE THREE HANDLES INTO POSITION AND START THE SEAMER. ALLOW THE SEAMER TO COMPLETE ITS RUN TO THE OPPOSITE END OF THE PANEL. SHOULD FURTHER SEAMING BE REQUIRED AFTER COMPLETING THE RUN WITH THE ELECTRICAL SEAMER, FINISH WITH THE TWO STAGE HANDLEAVE SEAMING PROCESS. DO NOT RUN THE ELECTRIC SEAMER THROUGH ANY SECTION OF THE PANEL THAT HAS BEEN HAND/EAVE SEAMED.

THE SEAMER SHOULD NEVER BE ALLOWED TO BECOME A FALLING HAZARD TO ANYONE BENEATH THE ROOF. ALL SAFETY PRECAUTIONS AND OSHA SAFETY REGULATIONS SHOULD ALWAYS BE FOLLOWED FOR MAXIMUM WORKER SAFETY.

FACTORY APPLIED

COUNTER (IDENTICAL LENGTH SHARE COUNTER)

- STANDING SEAM 360

STANDING SEAM 360 ROOF PANEL STANDING SEAM 360 PANEL IDENTIFICATION MARK NUMBER

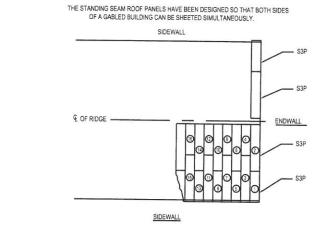
ALIMINUM-COATED PANELS ARE SUBJECT TO STAINING DUE TO RESIDUE FROM BARE HANDS. ALIMINUM-COATED LINER PANELS THAT INCLUDE AN ACRYLIC FINISH DO HAVE ADDITIONAL PROTECTION. BUT IT IS LIMITED AND DETERIORATES IN A RELATIVELY SHORT TIME MAKING THAT PANEL ALSO SUBJECT TO STAINING FROM BARE HANDS. IT IS RECOMMENDED THAT GLOVES BE USED FOR ALL HANDLING OF BOTH PRODUCTS AND THAT APPLICATION OF THESE PRODUCTS BE LIMITED TO AREAS NOT EXPOSED TO TOLUCH.

EXAMPLE

DETAIL "B" (FEMALE EDGE)

TA





PANEL STAGGER LAYOUT TO ASSURE A WATER TIGHT CONNECTION, STANDING SEAM ENDLAPS ARE DESIGNED TO BE STAGGERED FROM ONE PANEL RUN TO
THE NEXT. SEE ERECTION DRAWING FOR PROPER ENDLAP LOCATIONS.

DIRECTION OF ROOF PANEL ERECTION STANDING SEAM 360

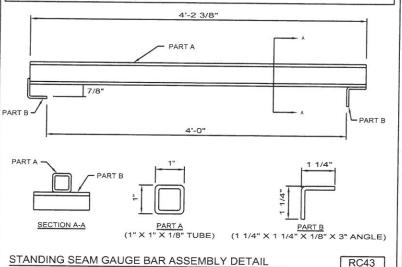
THE STANDING SEAM GAUGE BAR CAN BE USED IN ADDITION TO THE PANEL MODULARITY INSTALLATION DETAILS (RC71SA/RC72SA/RC73SA). PANEL GAUGE (AS RECOMMENDED) SHOWN, GAUGE BAR 2'-0" COVERAGE 2'-0" COVERAGE STANDING SEAM PANEL FETY PRECAUTION: IPE OIL AND OTHER SLIPPERY SUBSTANCES FROM ROOF PANELS O NOT STEP ON RIB OF PANEL OR WITHIN 5 FEET OF UNSECURED NEL END. USE OSHA APPROVED TIE OFFS, NETTINGS OR RAILS HEN WORKING ON ROOF.

PANEL COVERAGE GAUGES SUCH AS SHOWN ABOVE WILL HELP TO MAINTAIN CORRECT COVERAGE. PLACE ONE AT EACH END OF THE PANEL, GAUGE EACH PURLIN RUN AND ABOVE OR BELOW THE ENDLAP.

A STRING LINE SET AT THE NEXT RAFTER IS RECOMMENDED FOR TAKING MEASUREMENTS BACK TO THE PANELS TO ENSURE THAT

PANEL GAUGING RC41 STANDING SEAM PANEL SA

THE STANDING SEAM GAUGE BAR CAN BE USED IN <u>ADDITION</u> TO THE PANEL MODULARITY INSTALLATION DETAILS (RC71SA/RC72SA/RC73SA)



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RC38 TA

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SA

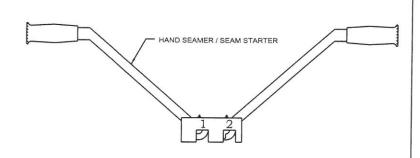
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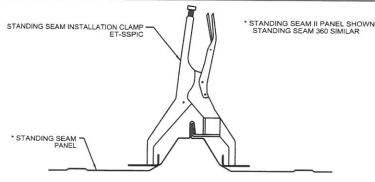
Shown above is the Hand Seamer tool. This tool is used at different locations prior to electrically seaming the roof.

PHASE 1 - 90° BEND PHASE 2 - 360° BEND

REFER TO THE OWNER'S MANUAL INCLUDED WITH THE STANDING SEAM PANEL HAND SEAMER / SEAM STARTER FOR SAFE AND PRACTICAL SEAMING INSTRUCTIONS

STANDING SEAM 360 PANEL HAND SEAMER TOOL

RC68A TA



The standing seam installation clamp will help keep roof runs on module and clamp will remain out of the work area when in use. This will not need to be used on every panel run but only when required to help modify sheets to stay within tolerance. They are also adjustable to allow for broader ranges of corrections.

By slipping the flat tab (located below the hinge point of the clamp) under the seam of the roof panels and then squeezing the handles closed, the two base angles grip the lower trapezoid of the panels and shorten the distance between the vertical legs of the roof sheets. When used at end laps and ridge/high eave locations of the roof, you can manipulate the growth of the sheets caused by the increasing amount of insulation being laid under roof systems.

STANDING SEAM INSTALLATION CLAMP

STANDING SEAM II/360

RC70

SA

1) Install panel/panels from eave to ridge/high eave, straight and square with the building. Be ng the panel at eave the correct amount. Install all panel clins (RC67EA/RC18TA). If there are endlaps, complete the endlaps (RC06SA/RC07SA).

First Panel Installation - (RC10SA) then (RC12SA at Custom Rake/RC11SA at Universal Rake)

- 2) Determine where the center line of the panel rib will fall, based upon the width of the starter panel. Mark a line on the vertical part of the eave flashing at this point. From the first vertical mork on the eave flashing, lay out the entire length of the building, putting a mark on the vertical leg of the flashing at 1'-0" O.C.. These marks will be used as the roof progresses to position the panel and to position the SSMC-I closure.
- Mark the center line of all SSMC-I closures with a vertical mark. Install the first closure

(EA36EA/EA36TA), with the mark on the eave flashing and the mark on the closure aligned.

Installed eave fashers will pass through the panel, tape mastic, eave flashing and TFSE(T).

Fostener locationis upslope from dimples at the end of the panel.

6) After the clips are installed on this first panel run, measure from the center of the fasteners which hold the panel clips to the purlins, at each panel endlap location and at the ridge/high eave purlin, and put a mark on the top of the purlin at 2"-0" O.C.. Then put in one #12X1 1/4" clip fastener or drill a small hole at each 2"-0" mark. These holes or fosteners will be used as the roof progresses to position the panel clips in these locations at a perfect 2'-0" coverage, thus maintaining module and panel straightness/alignment.

### All Subsequent Panel Runs

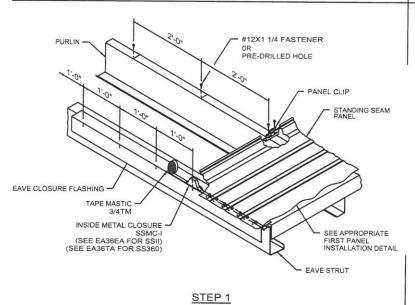
- Caulk the first 6° of the top of male rib of the panel (RC11_A).
- 8) Lay panel in position next to previous panel
- 9) Position a small framing square at the 1'-0" mark on the eave. Align the center of the (middle minor rib) of the panel with the edge of the square positioned at the 1'-0' mark, if this is a Standing Seam 360 panel, hook the female leg to the male leg of the preceding panel the entire length (RC01TA), then align center of panel with edge of square.

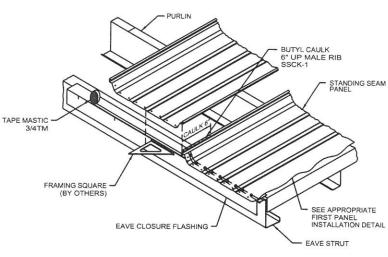
  O) Holding the middle of the rib at the edge of the square, push the panel uphill or downhill to get the proper overhang
- Though the finder of the finder of the expense, positive panel uptin to dominim to get the proper overning amount (See Fredton Drawings). This can be read right off the markings on the square. Note, the dimension shown is typically from face of eave strut. Subtract wall panel depth for correct overhang from eave flashing.
- 11) Once in position, install one fastener through the flat of the panel at the center of the flat.
  12) If Standing Seam II panel, the panel can now be seamed at this time (RC36EA).
- 13) Install fasteners in panel flat from the center to completed seam and into the SSMC-I closure
- 14) Using another SSMC-I, install closure by aligning the mark in the center of the closure, with the next 1'-0" mark on the eave trim (EA36EA/EA36TA).
- 15) Install remainder of fasteners in panel flat towards newly installed SSMC-I, then install fastener from trapezoid into
- 16) Install panel clip at endlap or ridge/high eave location by either removing fastener or finding the pre-drilled hole at 2-0* increments and then installing the fastener through the panel clip base into the pre-drilled hole. Then add the second fastener to the clip.
- 17) Panel should now be straight and on module, and the balance of the clips can be installed.
- 18) If there is a panel endlap, you would next lay the overlapping panel, make up the endlap utilizing the suggested clamps (RC66EA/RC66TA), and put on the panel clip at the next uphill pre-drilled location. Then fill in the balance of the clips
- 19) Depending on insulation thickness and other job site variables, you may choose to lay out one or more additional purlins at panel midspans on these 2'-0" centers for proper clip/panel modularity.

PANEL MODULARITY AT CONNECTING PANEL RC71 SA

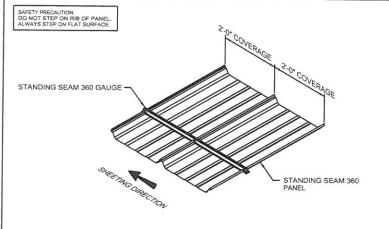
PANEL MODULARITY-ALL SUBSEQUENT PANEL RUNS

RC72 SA





STEP 2



Panel coverage gauges such as shown above will help to maintain correct coverage. Place one at each end of the panel, one at midspan, and if applicable, one above or below the lap.

STANDING SEAM 360 GAUGE

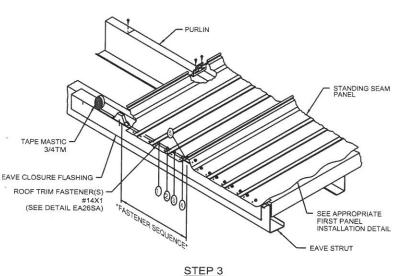
RC77 TA

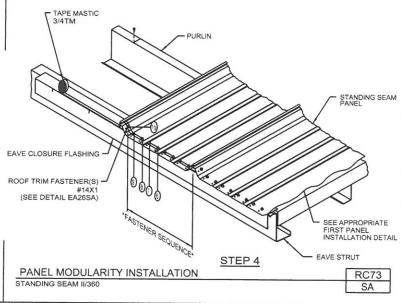
### **ERECTION NOTES**

- 1. ALL AREAS WHERE MASTIC IS TO BE APPLIED SHOULD BE WIPED CLEAN WITH A MILD DETERGENT OR AN ALL PURPOSE CLEANER BEFORE MASTIC APPLICATION. THIS WILL ENSURE A GOOD SEALING SURFACE AND IMPROVE WEATHER TIGHTNESS.
- THE BLANKET INSULATION MANUFACTURER RECOMMENDS THAT DOUBLE SIDED TAPE BE USED TO SECURE THE INSULATION TO THE EAVE. THE METAL BUILDING SUPPLIER IS NOT RESPONSIBLE FOR THE INSTALLATION OR ATTACHMENT OF THE INSULATION.
- DO NOT USE THE DIMPLES IN THE END OF THE PANELS TO LOCATE FASTENERS AT THE EAVE. DIMPLES ARE FOR THE FASTENERS AT THE PANEL ENDLAPS ONLY.
- 4. ALL EXPOSED FASTENERS SHOULD PENETRATE THE SEALANT FOR THE MOST WEATHER TIGHT CONNECTION.
- 5. WHEN FIELD CUTTING PANELS OR TRIM DO NOT USE ABRASIVE SAWS OR OTHER CUTTING METHODS WHICH PRODUCE HOT METAL PARTICLES OR BURN THE CUT EDGES. THESE METHODS WILL DAMAGE THE PAINTED AND GALVALUME FINISH AND VOID ANY WARRANTIES. USE DOUBLE CUT SHEARS, NIBBLERS OR OTHER CUTTING DEVICES WHICH DO NOT PRODUCE HOT METAL PARTICLES OR BURNED EDGES.

**ERECTION NOTES - STANDING SEAM** 

RC91 SA





**NOT FOR CONSTRUCTION**

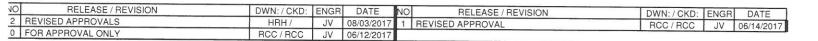
CAROLINA DIESEL TRUCKS 62 PROGRESS DRIVE FUQUAY VARINA, NC 27526 THOMAS ANDREWS

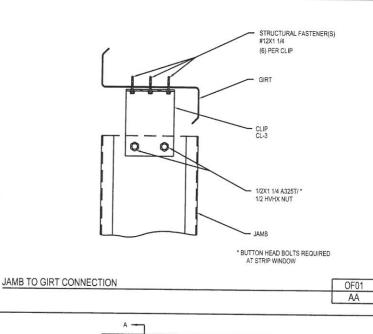


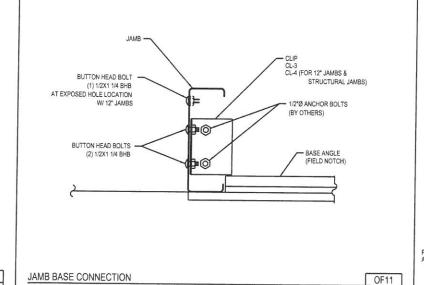
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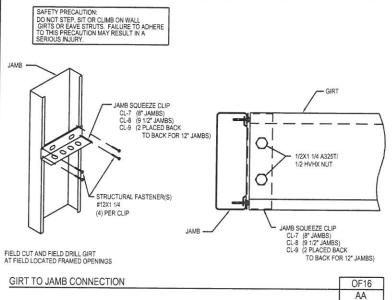
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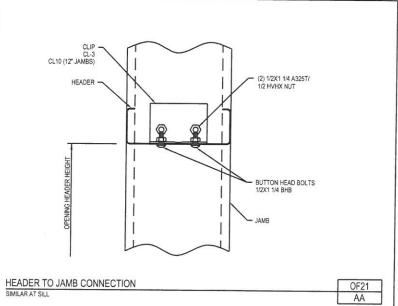
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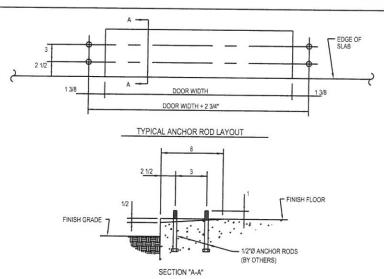












FRAMED OPENING ANCHOR ROD DETAIL

SECTION AT HEADER AND COVER FLASHING



1. OVERHEAD DOORS ARE FIELD LOCATED. CUT STANDARD PANELS AND GIRTS AS REQUIRED.

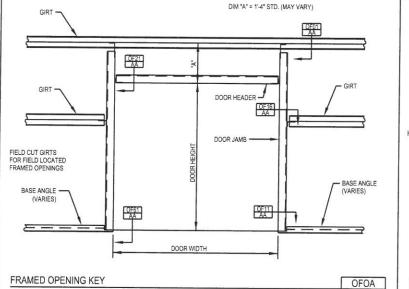
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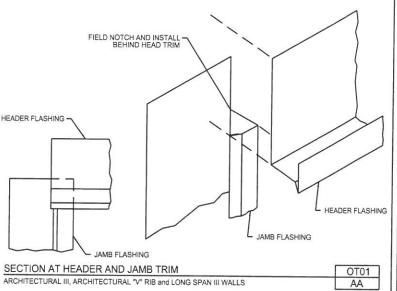
- 2. MAXIMUM HEIGHT OF DOOR IS 2'-0" LESS THAN EAVE HEIGHT.
- 3. ALL STRUCTURAL CONNECTIONS TO BE MADE AS SHOWN ON APPROPRIATE DETAILS.
- 4. JAMBS MUST BE LOCATED A MINIMUM OF 1'-0" FROM CENTER LINE OF COLUMNS.

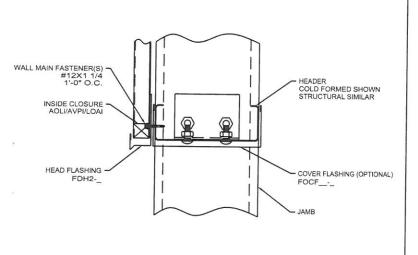
## GENERAL NOTES FOR SHOP LOCATED FRAMED OPENINGS:

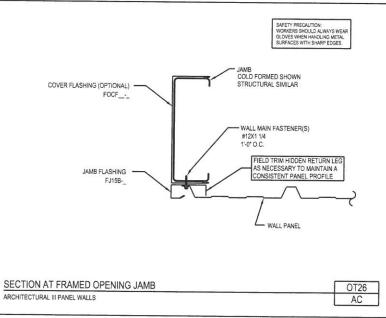
- 1. OVERHEAD DOORS ARE SHOP LOCATED. SOME PANELS MAY REQUIRE FIELD CUTTING
- 2. ALL STRUCTURAL CONNECTIONS TO BE MADE AS SHOWN ON APPROPRIATE DETAILS.

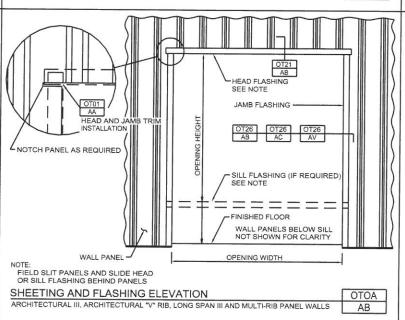












OTO1 AA HEAD AND JAMB TRIM INSTALLATION OTCH PANEL AS REQUIRED	OT21  AB  HEAD FLASHING SEE NOTE  JAMB FLASHING  OT26  OT26  OT26  OT26  OT26  OT26  OT26  OT26  AB  AC  AV  SILL FLASHING (IF REQUIRED) SEE NOTE  FINISHED FLOOR WALL PANELS BELOW SILL NOT SHOWN FOR CLARITY
WALL PANEL  E: ELD SLIT PANELS AND SLIDE HEAD R SILL FLASHING BEHIND PANELS	OPENING WIDTH
EETING AND FLASHING ELE	VATION OTOA , LONG SPAN III AND MULTI-RIB PANEL WALLS AB

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JAMB TO GIRT CONDITION

62 PROGRESS DRIVE FUQUAY VARINA, NC 27526 THOMAS ANDREWS

AA

AMERICAN BUILDINGS SOFTWARE VERSIONS DESIGN: MSA 47.3 BIM: v20.6 JOB NUMBER MBMR A17B0157A

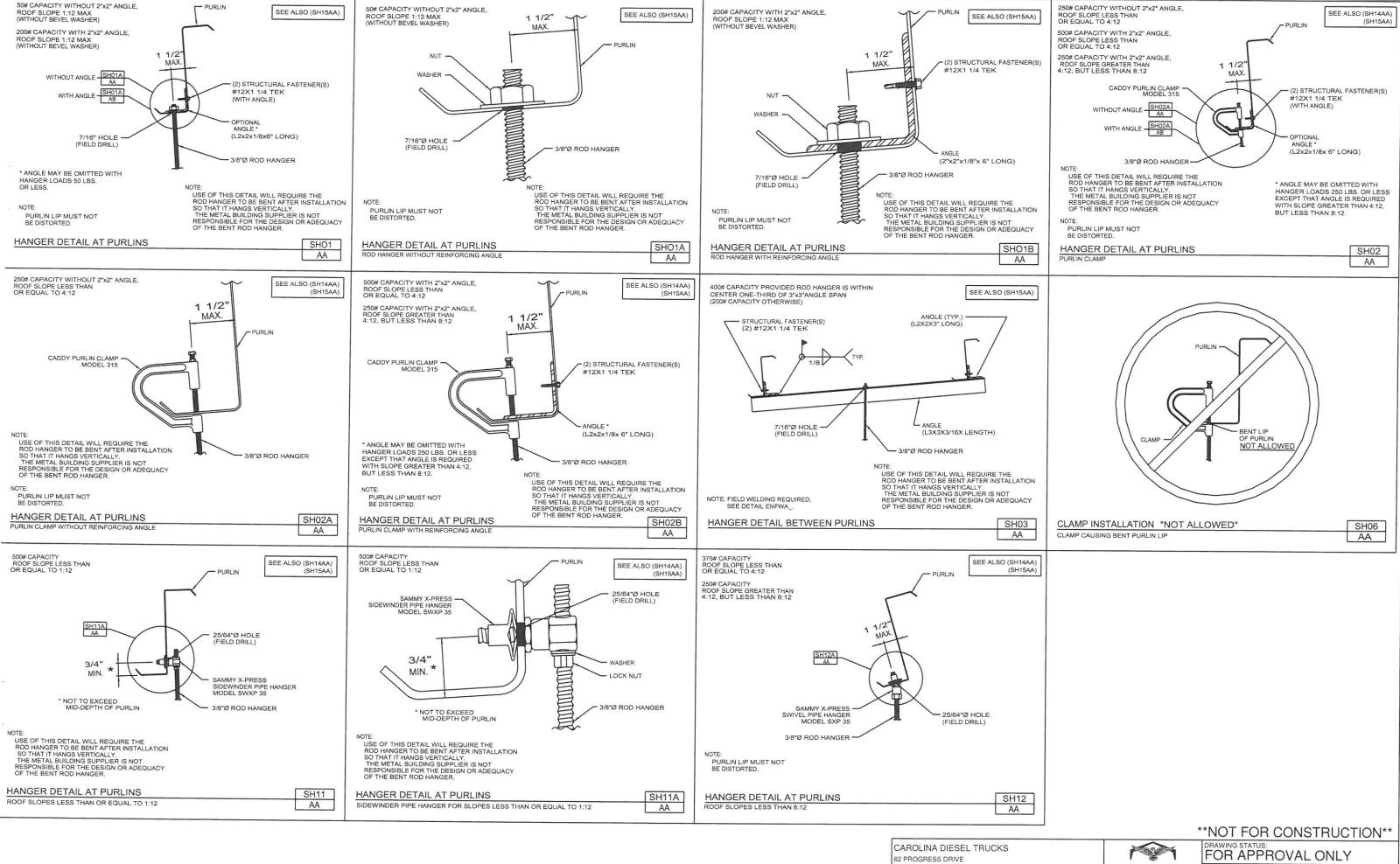
SHEET: SED-018

RELEASE / REVISION DWN:/CKD: ENGR DATE RELEASE / REVISION DWN: / CKD: ENGR DATE 2 REVISED APPROVALS JV 08/03/2017 1 REVISED APPROVAL RCC / RCC JV 06/14/2017 0 FOR APPROVAL ONLY RCC / RCC JV 06/12/2017

OT21

AB

OF61 AA



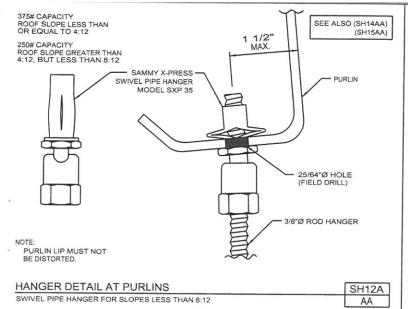
RELEASE / REVISION DWN:/CKD: ENGR DATE RELEASE / REVISION DWN: / CKD: ENGR DATE 2 REVISED APPROVALS JV 08/03/201 1 REVISED APPROVAL RCC / RCC JV 06/14/2017 0 FOR APPROVAL ONLY RCC / RCC JV 06/12/201

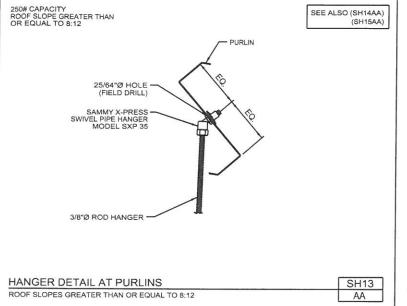
FUQUAY VARINA, NC 27526 THOMAS ANDREWS



SOFTWARE VERSIONS DESIGN: MSA 47.3 BIM: v20.6 JOB NUMBER

A17B0157A SED-019





CADDY PURLIN CLAMP MODEL 315 IS AVAILABLE VIA THE MANUFACTURER'S WEBSITE:

www.erico.com

SAMMY X-PRESS SWIVEL PIPE HANGER MODEL SXP 35 SAMMY X-PRESS SIDEWINDER PIPE HANGER MODEL SWXP 35 AND INSTALLATION TOOLS ARE AVAILABLE VIA THE MANUFACTURER'S WEB SITE:

www.sammysuperscrew.com/sammyxpress.htm

WEBSITES FOR PREAPPROVED HANGER DEVICES

SH14 AA

# WARNING

THE HANGER CAPACITIES SHOWN ON THE AMERICAN BUILDINGS COMPANY DETAILS REPRESENT THE MAXIMUM ALLOWABLE SINGLE HANGING LOAD THAT A TYPICAL PURLIN CAN SAFELY SUPPORT UNDER THE BEST OF CIRCUMSTANCES USING THE PARTICULAR HANGER DEVICE SHOWN IN THE DETAIL.

MANY FACTORS BEYOND THE CONTROL OF THE METAL BUILDING SUPPLIER AFFECT THE ABILITY MANY FACTORS BEYOND THE CONTROL OF THE METAL BUILDING SUPPLIER AFFECT THE ABIL. OF A PURLIN TO SAFELY SUPPORT HANGING LOADS COMBINED WITH OTHER REQUIRED ROOF LOADS. DUE TO THE VARIABLES INVOLVED IN HANGING LOADS AND THEIR ATTACHMENTS TO THE PURLINS, THE METAL BUILDING SUPPLIER CANNOT ASSURE THAT THE PURLINS FOR A PARTICULAR BUILDING PROJECT CAN SAFELY SUPPORT THE MAXIMUM ALLOWABLE HANGING LOADS IN COMBINATION WITH OTHER ROOF LOADS.

IT IS THE RESPONSIBILITY OF THE HANGER SYSTEM INSTALLER TO COORDINATE WITH THE ENGINEER OF RECORD FOR THE OVERALL PROJECT TO ENSURE A SAFE HANGING LOAD INSTALLATION, THE METAL BUILDING ENGINEER IS NOT THE ENGINEER OF RECORD FOR THE OVERALL PROJECT.

WITHOUT SPECIFIC CERTIFICATION FOR INDIVIDUAL HANGING LOADS, THE NET EFFECTS OF APPLIED HANGER LOADS INSTALLED ON A PARTICULAR PURLIN SHALL NOT EXCEED THE NET EFFECTS OF THE CERTIFIED UNIFORMLY APPLIED DESIGN COLLATERAL LOAD. SEE SHEET ABC-1.

HANGER CAPACITIES WARNING

SH16 AA

## NOTE:

OTHER METHODS OF ATTACHING HANGING LOADS, NOT DEPICTED ON DETAILS SH01, SH02, SH03, SH11, SH12, AND SH13, ARE GENERALLY PERMITTED.

HOWEVER, THE HANGER LOAD MUST NOT EXCEED 50 POUNDS PER HANGER LOCATION (WITHOUT SPECIFIC PRIOR APPROVAL FROM A QUALIFIED DESIGN PROFESSIONAL FOR A PARTICULAR LOAD).

**GENERAL HANGER NOTES** 

SH15 AA

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CAROLINA DIESEL TRUCKS 62 PROGRESS DRIVE FUQUAY VARINA, NC 27526 THOMAS ANDREWS







