

# ENCLOSED GABLE END BUILDING MAXIMUM 30'-0" WIDE X 16'-0" EAVE HEIGHT WITH BOX FRAME / (UP TO) 155 MPH WIND ZONE - 30 PSF SNOW LOAD

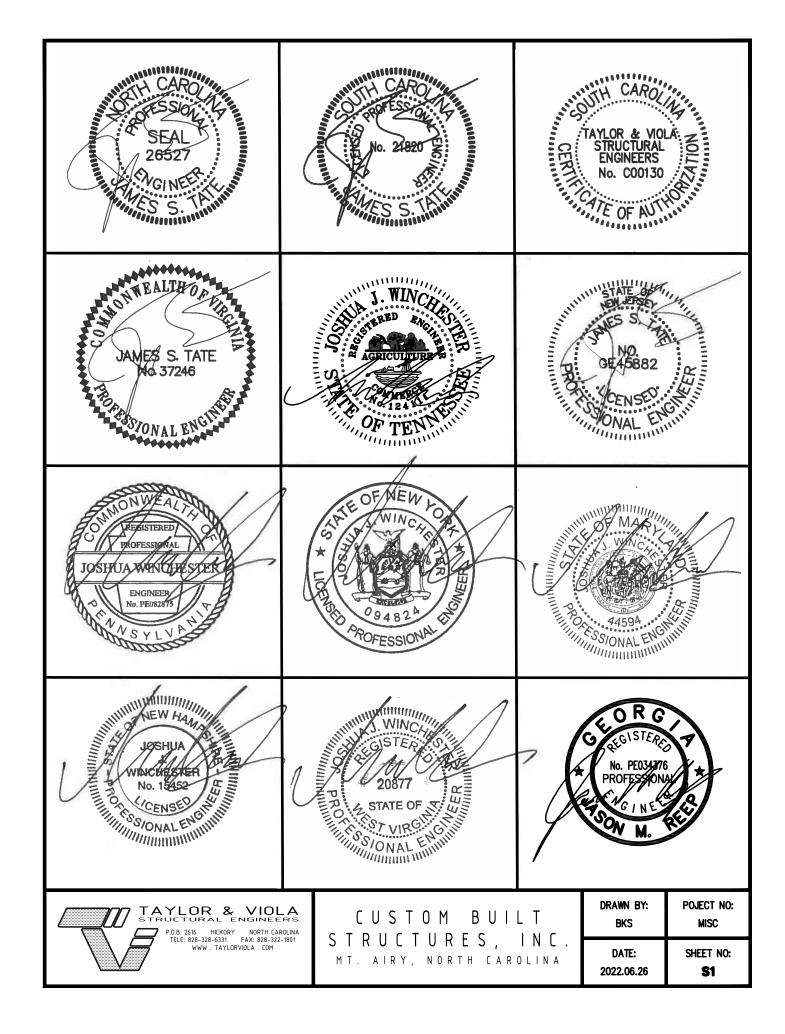
### FOR:

# CUSTOM BUILT STRUCTURES, INC. MT. AIRY, NORTH CAROLINA

ISSUE DATE: JUNE 26, 2022







TAYLOR & VIOL STRUCTURAL ENGINEE P.O.B. 2616 HICKORY NORTH CAR TELE: 828-328-6331 FAX: 828-322- WWW. TAYLORVIOLA. COM	STRUC	TOM B TURES	, INC	DRAWN BY: BKS DATE: 2022.06.26	POJECT NO: MISC SHEET NO:

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DESIGN LOADS:					
IMPORTANCE FACTORS	SNOW (1s	1.00 3) 1.00 4) 1.00			
DEAD LOADS	ROOF COLLATERAL	13	PSF PSF		
LIVE LOADS	ROOF	_20	PSF		
GROUND SNOW LOAD:		_30	PSF		
GROUND LOAD:	BASIC WIND SPEED EXPOSURE CATAGORY		mph (ASCE	7–10)	* DRIFT LOAD HAS NOT BEEN CALCULATED
SEISMIC DESIGN CATAGORY	A				
COMPLIANCE WITH SECTION	1616.4?	X NO	YES		
PROVIDE THE FOLLOWING SE	ISMIC DESIGN PARAMET	ERS:			
OCCUPANCY CATEGORY	<u> </u>				
SPECTRAL RESPONSE ACCEL	ERATION Ss 20	).5_ <b>%g</b>	<b>S1</b> <u>8.8</u>	<b>%</b> g	
SITE CLASSIFICATION D	FIELD TEST	Г 🗌 Р	RESUMPTIVE	П	STORICAL DATA
BASIC STRUCTURAL SYSTEM	(CHECK ONE)				
BEARING WALL  BUILDING FRAME  MOMENT FRAME		INTERMED	L MOMENT FF DIATE R/C OF M		l steel

#### **GENERAL NOTES:**

SOIL BEARING CAPACITIES:

1. MAX FRAME SPACING SHALL BE 60"oc UNLESS NOTED OTHERWISE.

LATERAL DESIGN CONTROL? \_\_\_\_ EARTHQUAKE \_\_X WND

PRESUMPTIVE BEARING CAPACITIES: 2,000 PSF

- 2. MAX. END-WALL COLUMN SPACING SHALL BE 60"oc UNLESS NOTED OTHERWISE.
- 3. TUBE MATERIAL SHALL BE 2-1/2" x 2-1/2" x 14 GA. 50 KSI MIN. UNLESS NOTED OTHERWISE.

ANALYSIS PROCEDURE \_\_\_\_\_ SIMPLIFIED \_\_X EQUIVALANT LATERAL FORCE \_\_\_\_\_MODAL

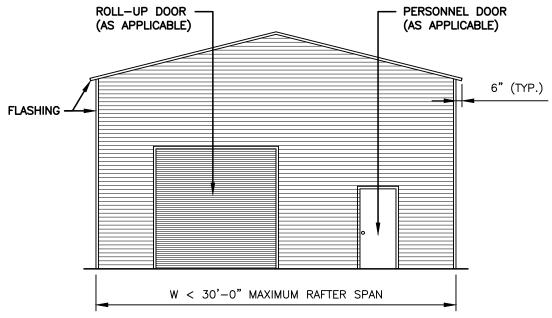
- 4. ALL FASTENERS SHALL BE #12 SELF TAPPING AT 9"o.c. UNLESS NOTED OTHERWISE.
- 5. 2,000 PSF ASSUMED BEARING CAPACITY UNLESS NOTED OTHERWISE.



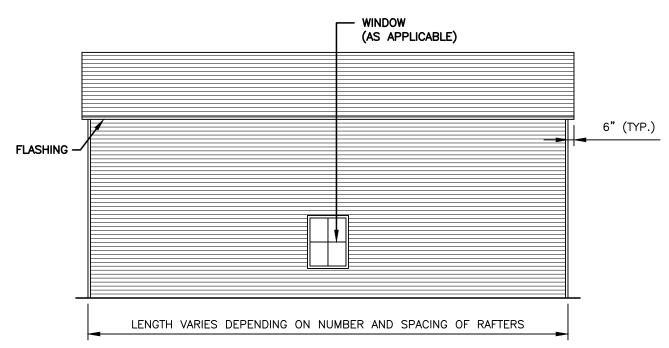
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# **BOX EVE FRAME RAFTER STURCTURE**



# TYPICAL END ELEVATION

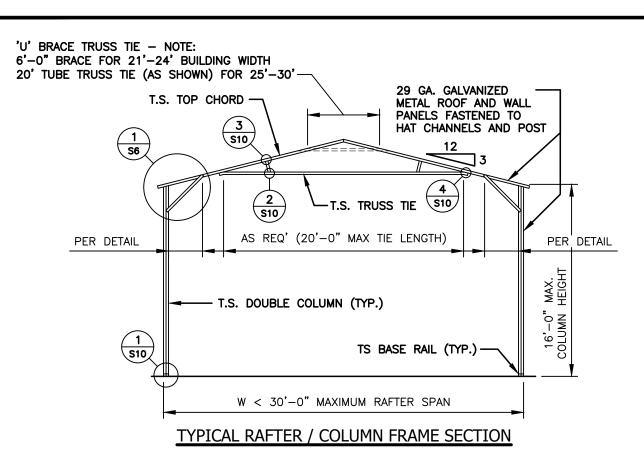


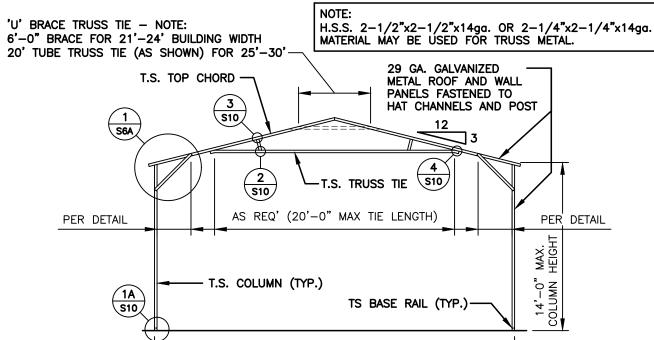
# **TYPICAL SIDE ELEVATION**



CUST	OM BUI	LT
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MT. AIRY,	$N \hspace{0.1cm} 0 \hspace{0.1cm} R \hspace{0.1cm} T \hspace{0.1cm} H \hspace{0.1cm} C \hspace{0.1cm} A \hspace{0.1cm} R$	0 L I N A

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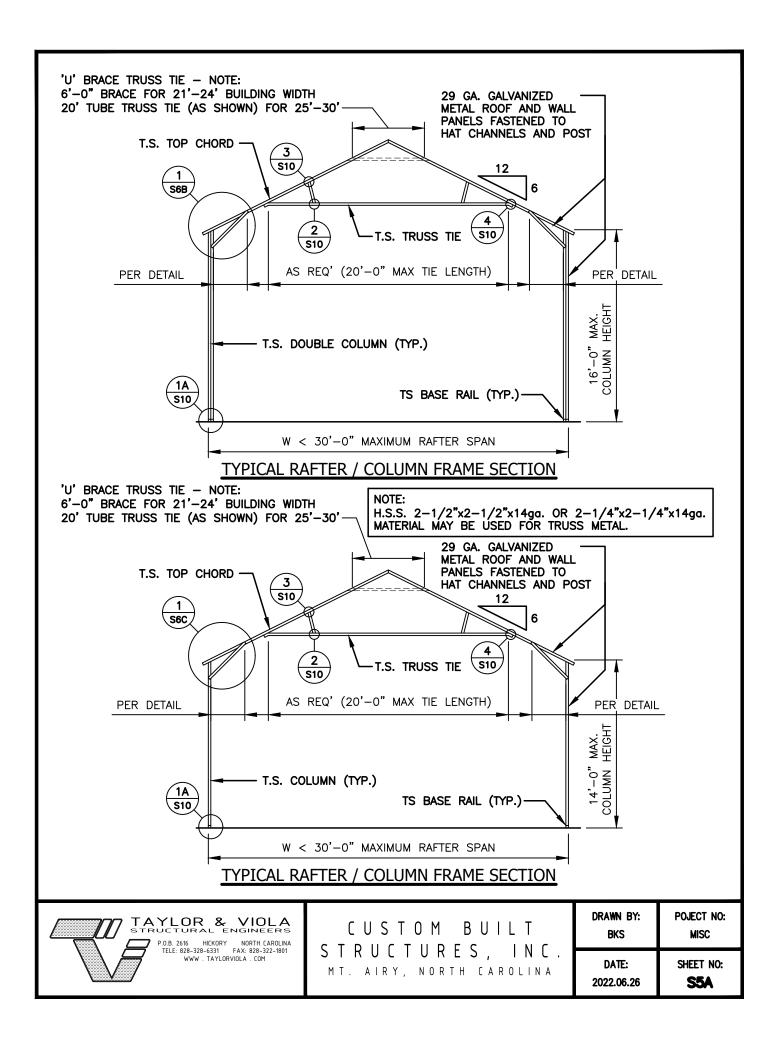


# TYPICAL RAFTER / COLUMN FRAME SECTION

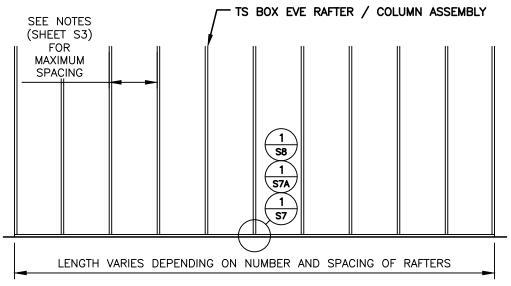
W < 30'-0" MAXIMUM RAFTER SPAN



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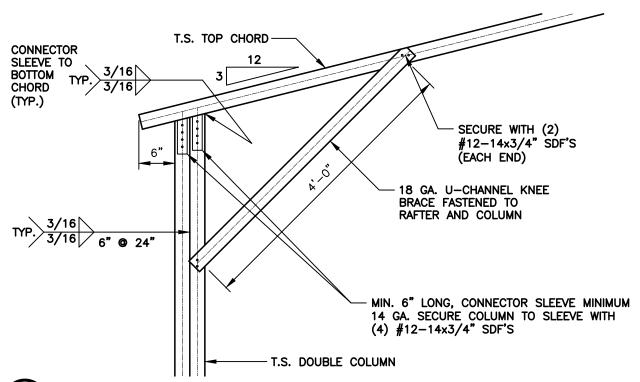
NOTE: H.S.S. 2-1/2"x2-1/2"x14ga. OR 2-1/4"x2-1/4"x14ga. MATERIAL MAY BE USED FOR TRUSS METAL.



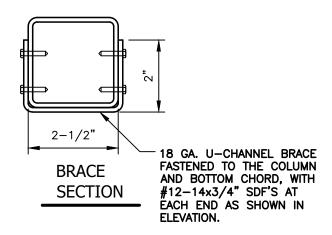
# TYPICAL RAFTER / COLUMN SIDE FRAME SECTION



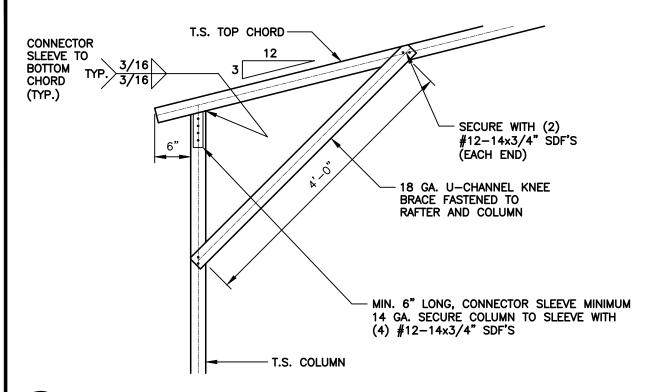
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BOX EAVE / CORNER POST CONNECTION DETAIL FOR HEIGHTS 14'-1" < TO <16'-0"

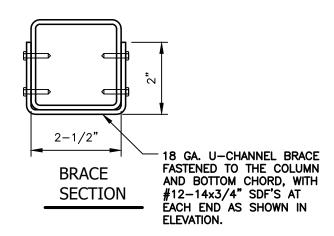






BOX EAVE / CORNER POST CONNECTION DETAIL FOR HEIGHTS < 14'-0"

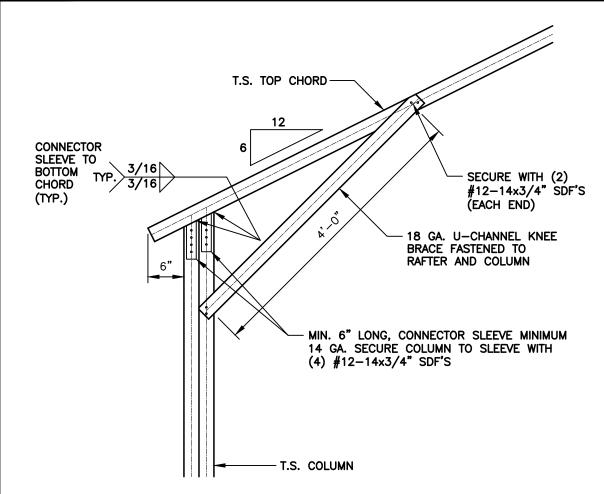
S6A



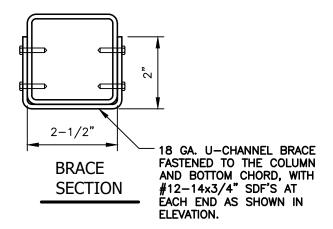


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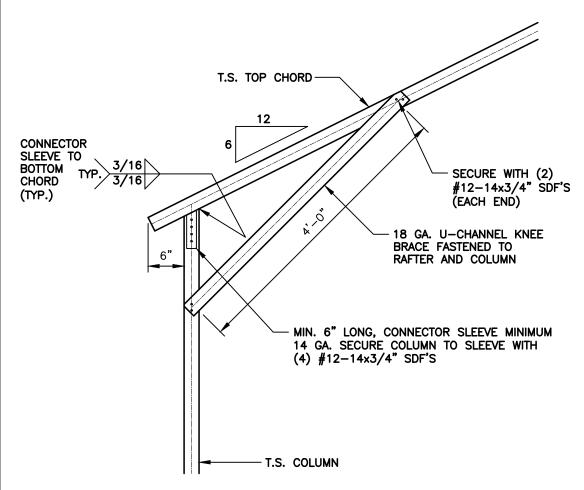
1 BOX EAVE / CORNER POST CONNECTION DETAIL FOR HEIGHTS 14'-1" < TO <16'-0"





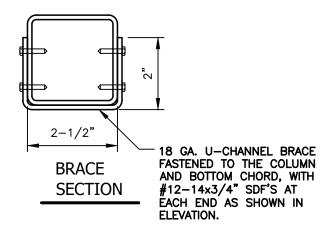
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2022.06.26	<b>S6B</b>



BOX EAVE / CORNER POST CONNECTION DETAIL FOR HEIGHTS < 14'-0"

S6C

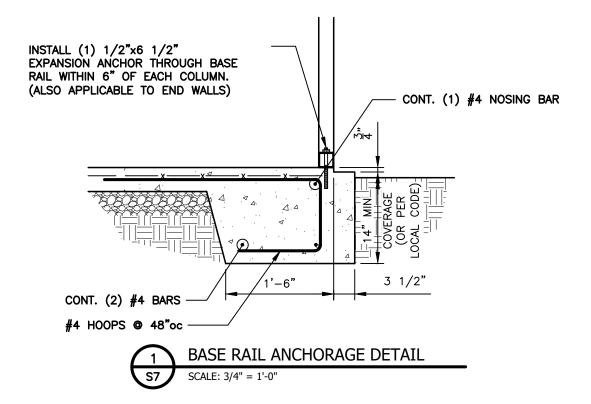




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#### CONCRETE BASE RAIL ANCHORAGE



**GENERAL NOTES:** 

ALL CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 2,000 PSF

#### **CONCRETE:**

CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS

#### COVER OVER REINFORCING STEEL:

FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318:

3" IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH AND WEATHER AND 1-1/2" ELSEWHERE.

#### REINFORCING STEEL:

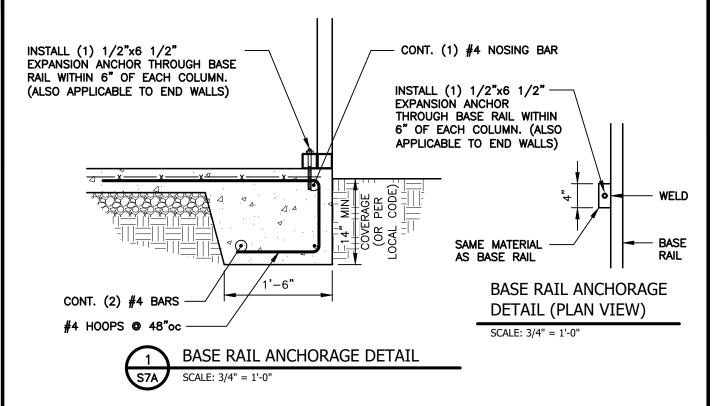
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

REINFORCEMENT MAT BE BENT IN THE SHOP OF THE FIELD PROVIDED:

- 1. REINFORCEMENT IS BENT COLD.
- THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX—BAR DIAMETERS.
- 3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.

TAYLOR & VIOLA STRUCTURAL ENGINEERS  P.O.B. 2616 HICKORY NORTH CAROLINA	CUSTOM BUILT	DRAWN BY: BKS	POJECT NO: MISC
P.O.B. 2616 HICKORY NORTH CAROLINA TELE: 828-328-6331 FAX: 828-322-1801 WWW . TAYLORVIOLA . COM	SIRULIURES, INC. MT. AIRY, NORTH CAROLINA	DATE: 2022.06.26	sheet no: <b>\$7</b>

#### CONCRETE BASE RAIL ANCHORAGE



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#### **REINFORCING STEEL:**

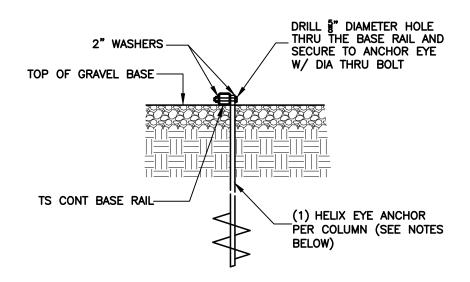
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

REINFORCEMENT MAT BE BENT IN THE SHOP OF THE FIELD PROVIDED:

- 1. REINFORCEMENT IS BENT COLD.
- THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS.
- 3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.



#### SOIL NAIL BASE RAIL ANCHORAGE



# BASE RAIL ANCHORAGE DETAIL SCALE: 3/4" = 1'-0"

HELIX EMBEDMENT INFORMATION: FOR VERY DENSE OR CEMETED SANDS, COARSE GRAVEL, COBBLES, CALICHE, PRELOADED SILTS AND CLAYS, USE MIN (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT OR SINGLE 6" HELIX WITH 50" EMBEDMENT

FOR CORAL, USE MIN (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT OR SINGLE 6" HELIX WITH 50" EMBEDMENT

FOR MED DENSE COARSE SANDS, SANDY GRAVEL, VERY STIFF SILTS, AND CLAYS, USE MIN (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT OR SINGLE 6" HELIX WITH 50" EMBEDMENT

FOR LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS, USE MIN (2) 6" HELICES WITH MINIMUM 50" EMBEDMENT

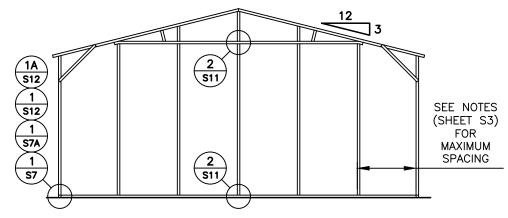
FOR VERY LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER CLAYS AND SILTS AND ALLUVIAL FILL, USE MIN (2) 8" HELICES WITH MINIMUM 60" EMBEDMENT



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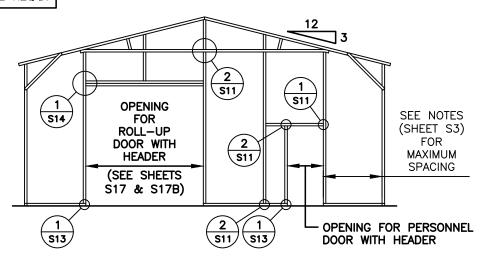
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#### **BOX EVE RAFTER END WALL OPENINGS**



#### TYPICAL BOX EVE RAFTER / END WALL COLUMN FRAME SECTION

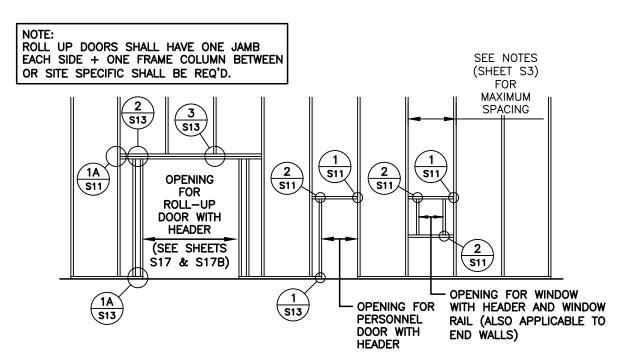
NOTE: ROLL UP DOORS SHALL HAVE ONE JAMB EACH SIDE + ONE FRAME COLUMN BETWEEN OR SITE SPECIFIC SHALL BE REQ'D.



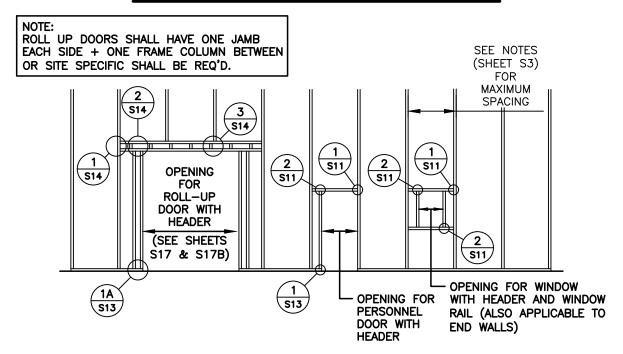
### TYPICAL BOX EVE RAFTER END WALL OPENINGS FRAMING SECTION



#### BOX EVE RAFTER END WALL AND SIDE WALL OPENINGS

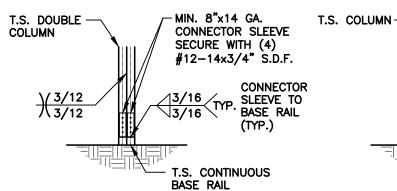


#### TYPICAL END WALL OPENING FRAMING SECTION



# TYPICAL SIDE WALL OPENING FRAMING SECTION

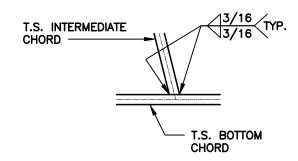




POST / BASE RAIL CONNECTION DETAIL SCALE: 1/2" = 1'-0" **S10** 

CONNECTOR SLEEVE SECURE WITH (4) #12-14x3/4" S.D.F. CONNECTOR 3/16 TYP. SLEEVE TO BASE RAIL (TYP.) T.S. CONTINUOUS BASE RAIL POST / BASE RAIL CONNECTION DETAIL SCALE: 1/2" = 1'-0"

MIN. 8"x14 GA.



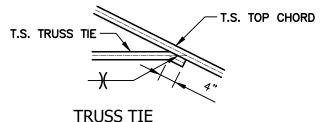
INTERMEDIATE CHORD TO BOTTOM CHORD CONNECTION DETAIL

SCALE: 1/2" = 1'-0"

T.S. TOP CHORD T.S. INTERMEDIATE **CHORD** 3/16

INTERMEDIATE CHORD TO TOP CHORD CONNECTION DETAIL

SCALE: 1/2" = 1'-0"



S10

S10

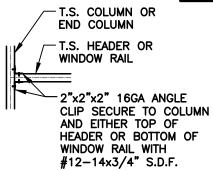
CONNECTION DETAIL

SCALE: 1/2" = 1'-0"



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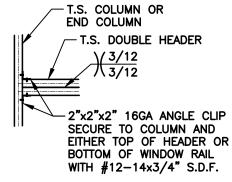
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2022.06.26	S10	



COLUMN OR WINDOW RAIL / WALL GIRT TO POST CONNECTION DETAIL



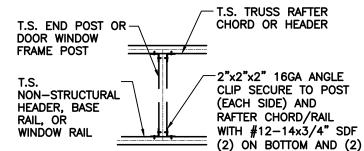
SCALE: 1/2" = 1'-0"



COLUMN / DOUBLE HEADER CONNECTION DETAIL



SCALE: 1/2" = 1'-0"



DOOR OR WINDOW HEADER RAIL TO POST CONNECTION DETAIL

ÓN SIDE

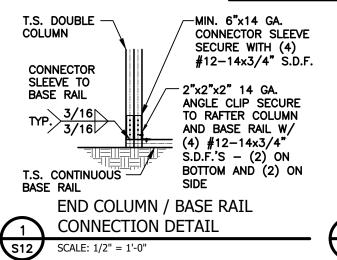


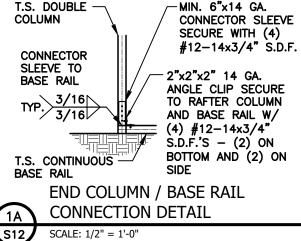
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SCALE: 1/2" = 1'-0"



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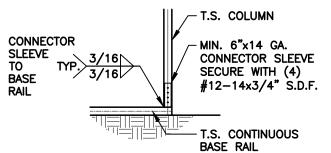


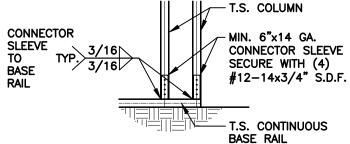




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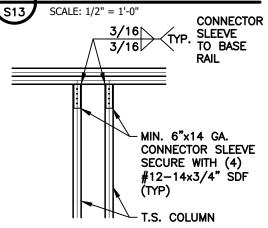


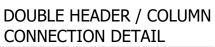


COLUMN / BASE RAIL

CONNECTION DETAIL

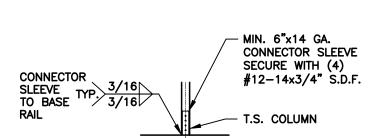
# COLUMN / BASE RAIL CONNECTION DETAIL





SCALE: 1/2" = 1'-0"

**S13** 



SCALE: 1/2" = 1'-0"

S13

COLUMN / DOUBLE HEADER
CONNECTION DETAIL

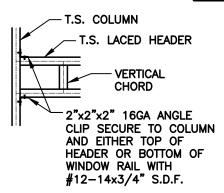
T.S. DOUBLE HEADER

S13 | SCALE: 1/2" = 1'-0"

3/12



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COLUMN / LACED HEADER
CONNECTION DETAIL

SCALE: 1/2" = 1'-0"

S14

**S14** 

T.S. LACED HEADER

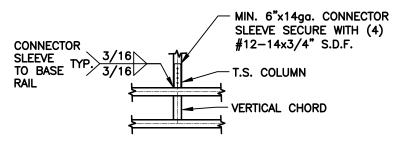
VERTICAL CHORD

MIN. 6"x14ga. CONNECTOR SLEEVE SECURE WITH (4) #12-14x3/4" S.D.F.

T.S. COLUMN

LACED HEADER / COLUMN CONNECTION DETAIL

SCALE: 1/2" = 1'-0"



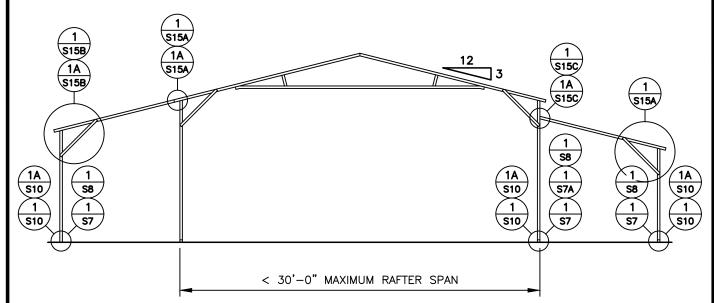
COLUMN / LACED HEADER CONNECTION DETAIL

SCALE: 1/2" = 1'-0"



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#### **BOX EVE RAFTER LEAN-TO OPTIONS**



# TYPICAL LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)

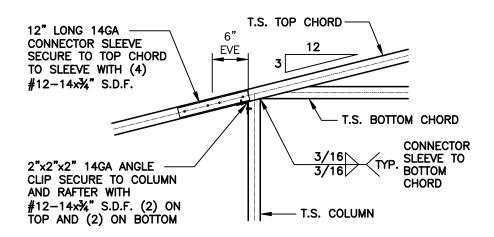
MAXIMUM WIDTH OF SINGLE MEMBER ROOF EXTENSION AND LEAN-TO OPTION IS 12'-0" MAXIMUM WIDTH OF DOUBLE MEMBER ROOF EXTENSION AND LEAN-TO IS 15'-0" 12'-0" MAX. LEAN-TO HEIGHT WITH SINGLE COLUMN



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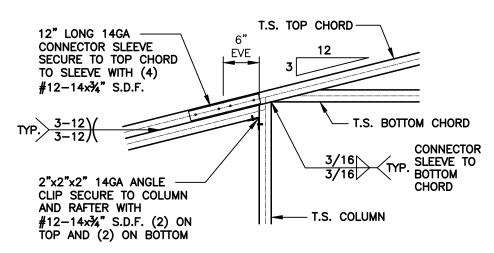
#### **LEAN-TO CONNECTION DETAILS**



ROOF EXTENSION RAFTER / CORNER POST DETAIL FOR WIDTHS < 12'-0"

(1 S15A

SCALE: 3/4" = 1'-0"



ROOF EXTENSION RAFTER / CORNER POST DETAIL FOR WIDTHS < 15'-0"

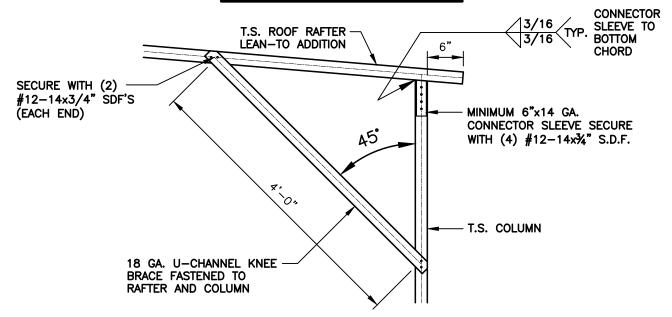


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#### **LEAN-TO CONNECTION DETAILS**



BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR LEAN-TO RAFTER SPAN <12'-0"

SCALE: 3/4" = 1'-0" 3<u>/16</u> TYP. CONNECTOR SLEEVE TO T.S. ROOF RAFTER 3/16 воттом LEAN-TO ADDITION **CHORD** SECURE WITH (2) — #12-14x3/4" SDF'S (EACH END) MINIMUM 6"x14 GA. CONNECTOR SLEEVE SECURE 45° WITH (4) #12-14x3/4" S.D.F. X. T.S. COLUMN 18 GA. U-CHANNEL KNEE BRACE FASTENED TO RAFTER AND COLUMN

BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR LEAN-TO RAFTER SPAN <15'-0"

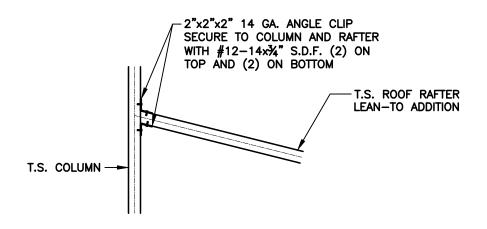
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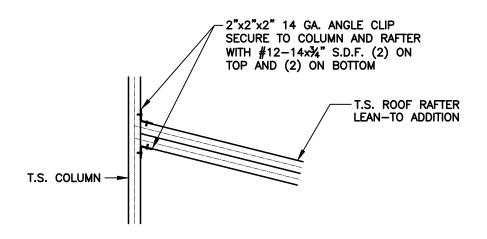
#### **LEAN-TO CONNECTION DETAILS**



# 1 S15C

# LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS < 12'-0"

SCALE: 3/4" = 1'-0"





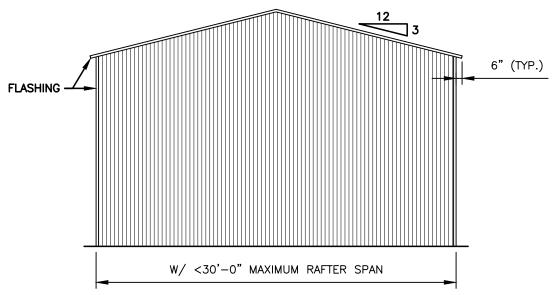
LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS < 15'-0"



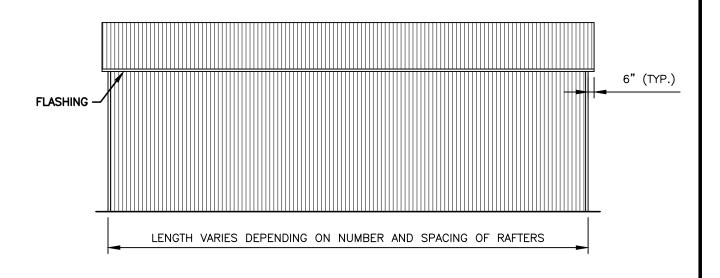
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# VERTICAL ROOF / SIDING OPTION



# TYPICAL END ELEVATION - VERTICAL ROOF / SIDING



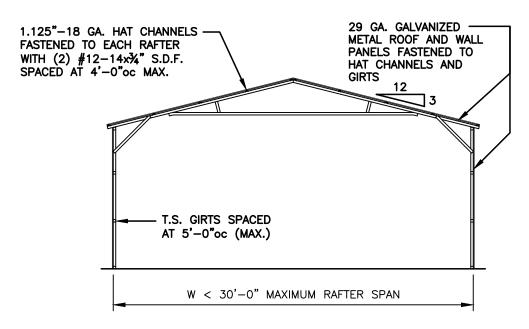
#### TYPICAL SIDE ELEVATION - VERTICAL ROOF / SIDING



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#### **VERTICAL ROOF / SIDING OPTION**



# TYPICAL SECTION VERTICAL ROOF / SIDING OPTION

NOTE:

H.S.S. 2-1/2"x2-1/2"x14ga. OR 2-1/4"x2-1/4"x14ga. MATERIAL MAY BE USED FOR TRUSS METAL.



CUSTOM BUILT STRUCTURES, INC. MT. AIRY, NORTH CAROLINA

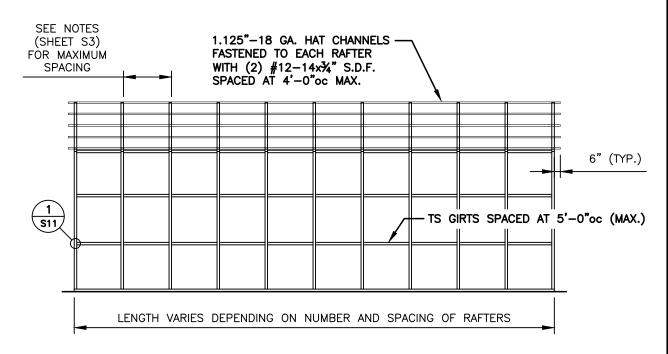
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POJECT NO: MISC

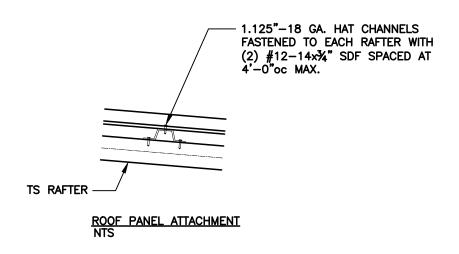
DATE: 2022.06.26

SHEET NO: S16A

#### **VERTICAL ROOF / SIDING OPTION**



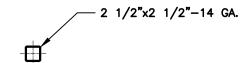
#### TYPICAL SIDE FRAMING SECTION VERTICAL ROOF / SIDING OPTION



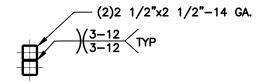


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# **SIDE WALL HEADER OPTIONS**



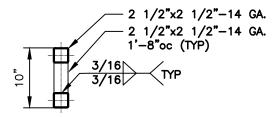
HEADER DETAIL FOR DOOR OPENINGS < 4'-0" NTS



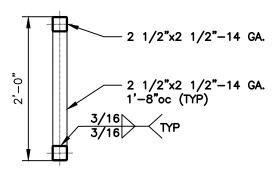
HEADER DETAIL FOR DOOR

OPENINGS 4'-1" < TO < 12'-0"

NTS



LACED HEADER DETAIL FOR DOOR OPENINGS 12'-1" < TO < 15'-0" NTS



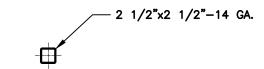
LACED HEADER DETAIL FOR DOOR OPENINGS 15'-1" < TO < 20'-0"

YLOR & VIOLA
P.O.B. 2616 HICKORY NORTH CAROLINA TELE: 828–328–6331 FAX: 828–322–1801 WWW . TAYLORVIOLA . COM

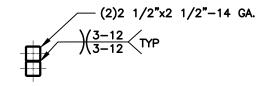
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# **END WALL HEADER OPTIONS**



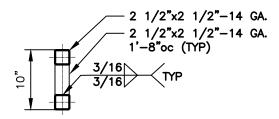
HEADER DETAIL FOR DOOR OPENINGS < 7'-0" NTS



HEADER DETAIL FOR DOOR

OPENINGS 7'-1" < TO < 16'-0"

NTS



LACED HEADER DETAIL FOR DOOR OPENINGS 16'-1" < TO < 20'-0" NTS



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MT. AIRY,	NORTH CA	ROLINA

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