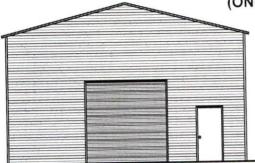
**AUTHORIZED CUSTOMER:** KRISTIN DAY

CAMERON, NC 28326

1350 CYPRESS CHURCH RD

BUILDING SIZE:

30'W x 45' x 14'H MAIN BUILDING WITH TWO 10'W x 30'L x 10'H LEAN-TO'S (ONE LEAN-TO ON EACH SIDE)

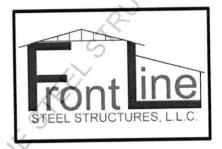


ENCLOSED GABLE END BUILDING MAXIMUM 30'-0" WIDE X 16'-0" EAVE HEIGHT WITH BOX FRAME (135 MPH WIND ZONE)

FOR:

FRONTLINE STEEL STRUCTURES, LLC MT. AIRY, NORTH CAROLINA

ISSUE DATE: AUGUST 01, 2022







211 Stone Drive, Pilot Mountain, NC 27041 336-399-6277



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S3	GENERAL NOTES
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S4A	SIDE ELEVATION
S5	FRAME SECTIONS
S6	FRAME SECTIONS COLUMN CONNECTIONS COLUMN CONNECTIONS DASE BALL ANCHORAGE
S7	COLUMN CONNECTIONS
S7A	COLUMN CONNECTIONS
S8	BASE RAIL ANCHORAGE
S8A	BASE RAIL ANCHORAGE
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S9	END WALL SECTIONS
S9A	END WALL SECTIONS
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S10	CONNECTION DETAILS
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S14D	LEAN-TO OPTIONS
S15	END ELEVATION - VERTICAL SIDING
S15A 👙	SIDE ELEVATION - VERTICAL SIDING
S16	WALL SECTION - VERTICAL SIDING
S16A	WALL SECTION - VERTICAL SIDING
S17	HEADER INFORMATION
\$17A	HEADER INFORMATION
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3	

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

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IMPORTANCE FACTORS	WIND SNOW SEISMIC	(1w) 1.00 (1s) 1.00 (1e) 1.00					
DEAD LOADS	ROOF COLLATERAL	13 PSF 0 PSF					
LIVE LOADS	ROOF	_20 PSF					
GROUND SNOW LOAD:		30_ PSF					
GROUND LOAD:	BASIC WIND SPEE EXPOSURE CATAG						
SEISMIC DESIGN CATAGORY	A	5					
COMPLIANCE WITH SECTION	1616.49	X NO YES					
PROVIDE THE FOLLOWING SE	EISMIC DESIGN PARA	AMETERS:					
OCCUPANCY CATEGORY	1/11	25					
SPECTRAL RESPONSE ACCE	LERATION Sa	20.5 %g S1 8.8 %g					
SITE CLASSIFICATION D	FIELD	TEST PRESUMPTIVE HISTORICAL DATA					
BASIC STRUCTURAL SYSTEM	(CHECK ONE)	5					
BEARING WALL  X BUILDING FRAME  MOMENT FRAME	DUAL	. W/ SPECTRAL MOMENT FRAME . W/ INTERMEDIATE R/C OR SPECIAL STEEL RTED PENDULUM					
ANALYSIS PROCEDURE SIMPLIFIED _X EQUIVALANT LATERAL FORCEMODAL							
LATERAL DESIGN CONTROL? EARTHQUAKEX WIND							
SOIL BEARING CAPACITIES:	AOTICO.	2,000 <b>PSF</b>					
PRESUMPTIVE BEARING CAP	ACITES:						
the second secon							

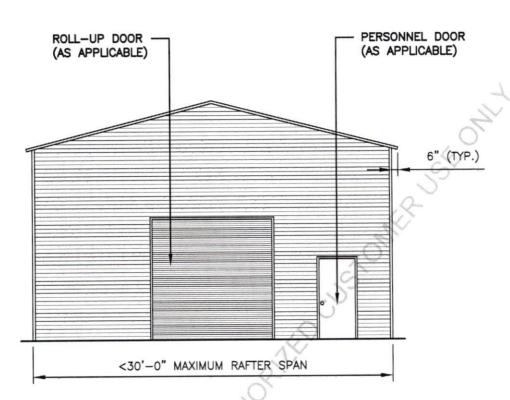
#### GENERAL NOTES:

- 1. MAX FRAME SPACING SHALL BE 60" oc UNLESS NOTED OTHERWISE.
- 2. MAX. END-WALL COLUMN SPACING SHALL BE 60" oc UNLESS NOTED OTHERWISE.
- 3. TUBE MATERIAL SHALL BE  $2-1/2" \times 2-1/2" \times 14$  GA. 50 KSI MIN. UNLESS NOTED OTHERWISE.
- 4. ALL FASTENERS SHALL BE #12 SELF TAPPING UNLESS NOTED OTHERWISE.
- 5. 2,000 PSF ASSUMED BEARING CAPACITY UNLESS NOTED OTHERWISE.



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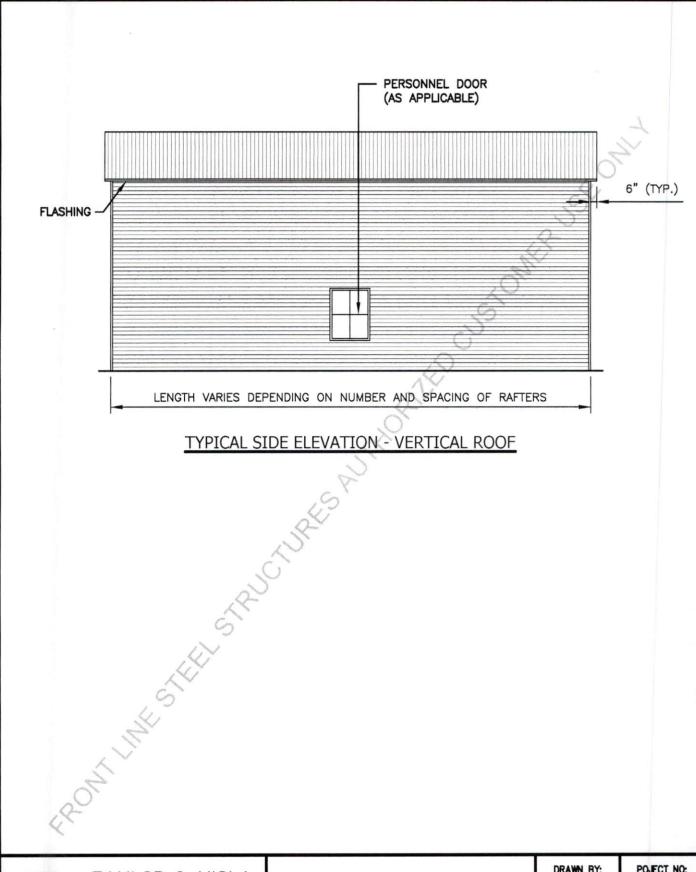


# TYPICAL END ELEVATION - VERTICAL ROOF

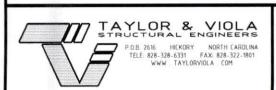


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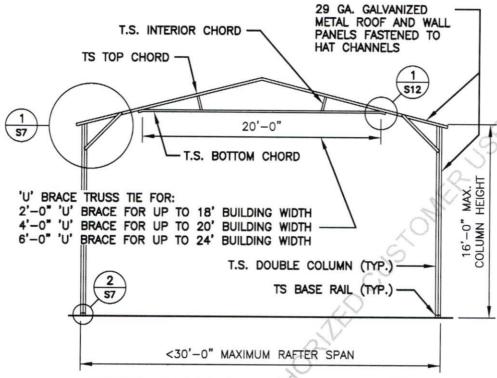




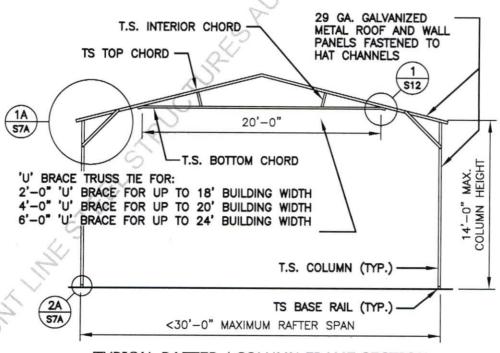
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# <30'-0"

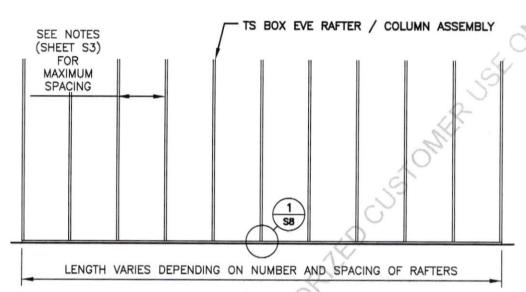


# TYPICAL RAFTER / COLUMN FRAME SECTION

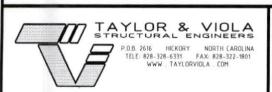


# TYPICAL RAFTER / COLUMN FRAME SECTION

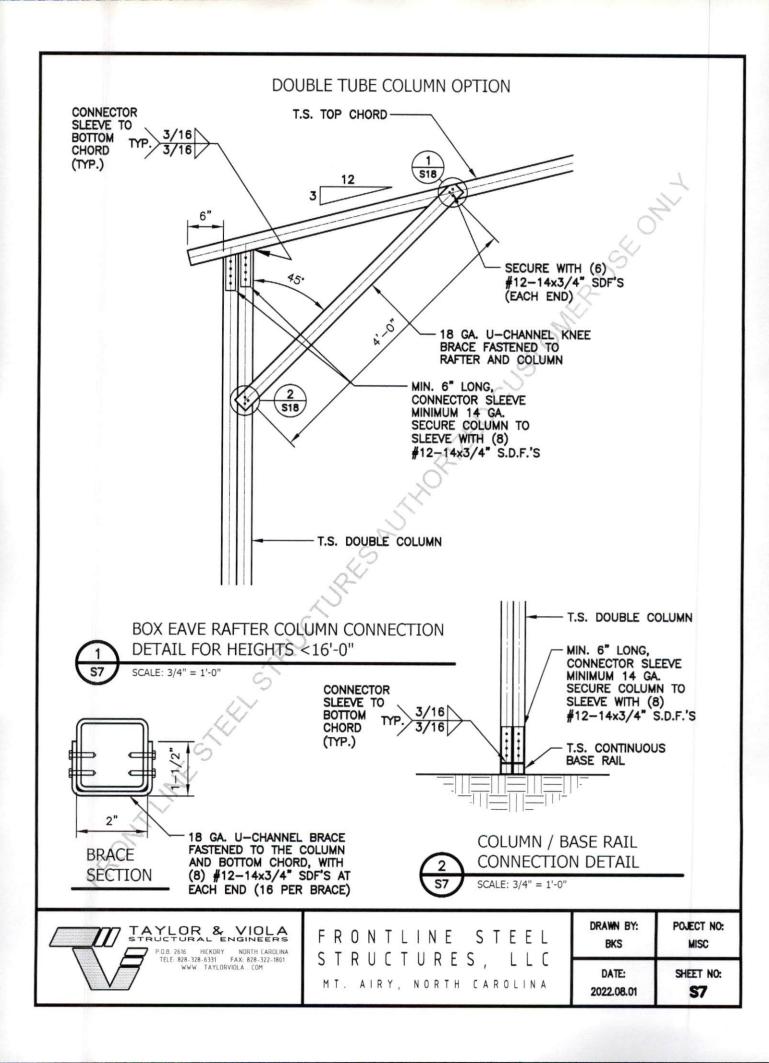


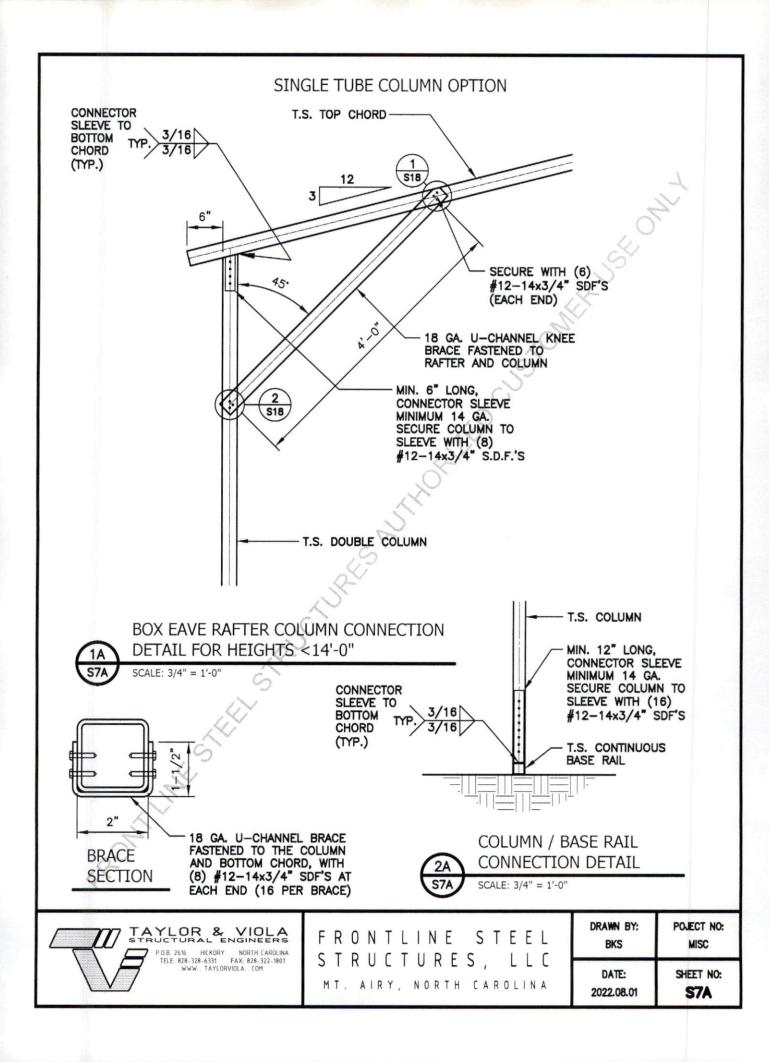


# TYPICAL RAFTER / COLUMN SIDE FRAME SECTION

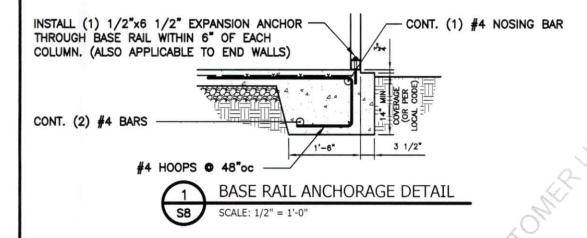


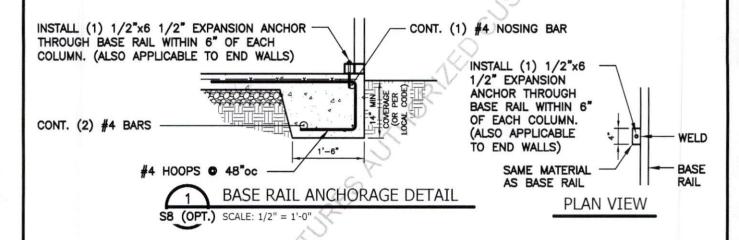
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#### BASE RAIL ANCHORAGE





**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:

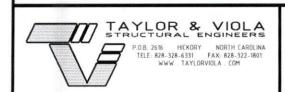
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

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

1. REINFORCEMENT IS BENT COLD.

2. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS.

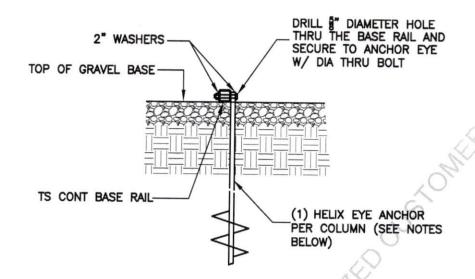
3: REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.



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DATE: 2022.08.01	SHEET NO:

#### BASE RAIL ANCHORAGE



1 BASE RAIL ANCHORAGE DETAIL
S8A 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

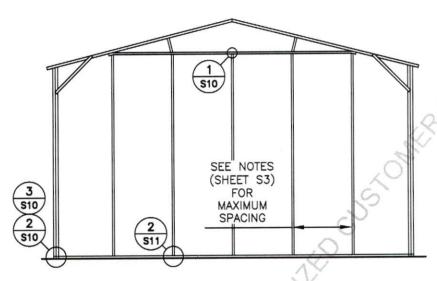
FOR VERY LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER CLAYS AND SILTS AND ALLUVIAL FILL, USE MIN (2) 8" HELICES WITH MINIMUM 60" EMBEDMENT



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## TYPICAL END WALL FRAMING SECTION



TYPICAL END WALL FRAMING SECTION

TAYLOR & VIOLA
STRUCTURAL ENGINEERS

P.O.B. 2616 HICKORY NORTH CAROLINA
TELE: 828-328-6331 FAX: 828-322-1801
WWW TAYLORVIOLA COM

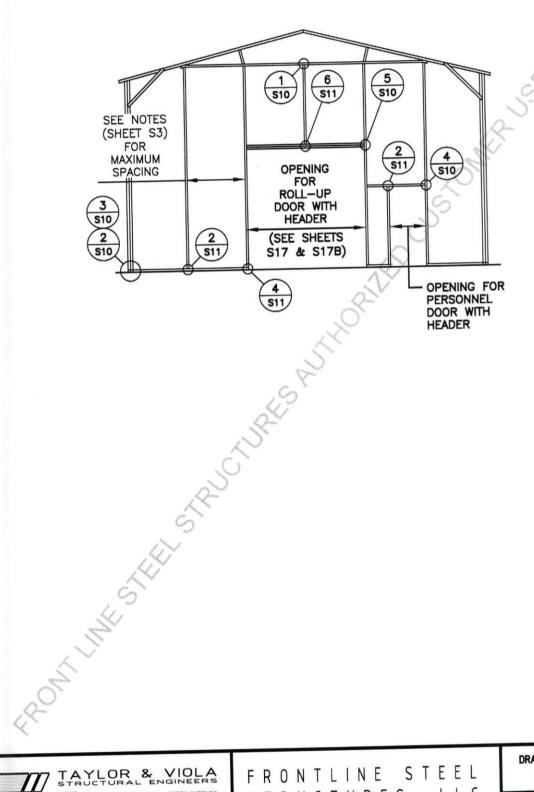
FRONTLINE STEEL STRUCTURES, LLC MT. AIRY, NORTH CAROLINA DRAWN BY: POJECT NO:
BKS MISC

DATE: SHEET NO:

2022.08.01

**S9** 

# TYPICAL END WALL FRAMING SECTION



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

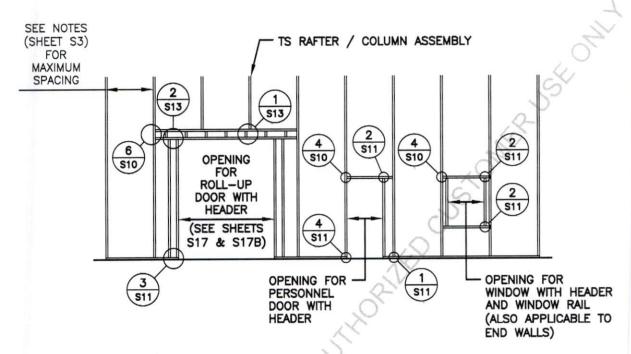
FRONTLINE STEEL STRUCTURES, LLC MT. AIRY, NORTH CAROLINA

POJECT NO: DRAWN BY: MISC **BKS** SHEET NO: DATE:

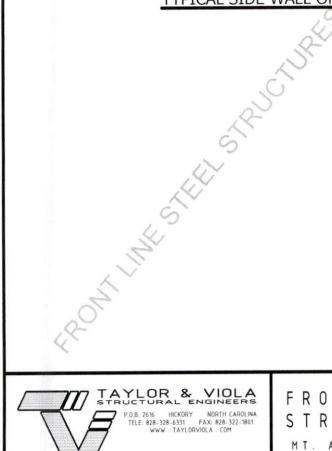
2022.08.01

S9A

#### TYPICAL SIDE WALL OPENING FRAMING SECTION

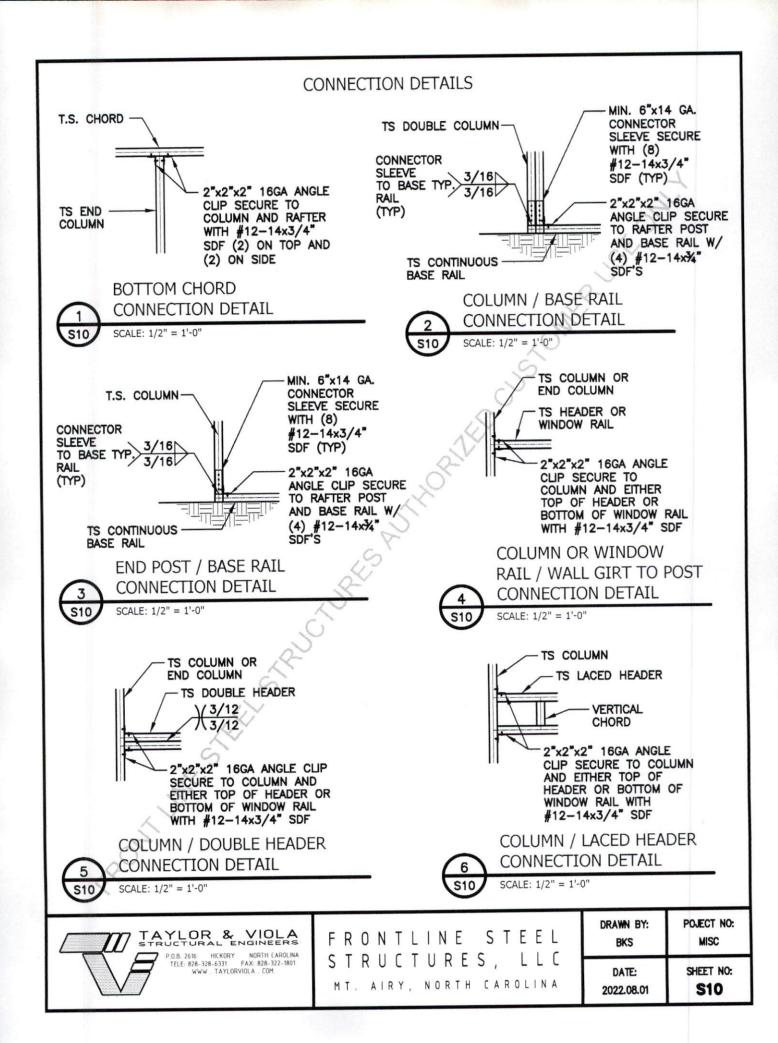


## TYPICAL SIDE WALL OPENINGS FRAMING SECTION

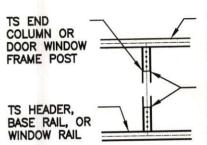


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#### CONNECTION DETAILS



TS TRUSS RAFTER CHORD OR NON-STRUCTURAL HEADER

MIN. 6"x14 GA. CONNECTOR SLEEVE SECURE WITH (8) #12-14x3/4" SDF

TS END POST OR DOOR WINDOW FRAME POST

NON-STRUCTURAL HEADER, BASE RAIL, OR WINDOW RAIL

2"x2"x2" 16GA ANGLE CLIP SECURE TO POST (EACH SIDE) AND RAFTER CHORD/RAIL WITH #12-14x3/4" SDF (2) ON BOTTOM AND (2) ON SIDE

TS TRUSS RAFTER CHORD OR HEADER

COLUMN TO HEADER OR BASE RAIL CONNECTION DETAIL

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

TS COLUMN CONNECTOR MIN. 6"x14 GA. SLEEVE 3/16 TO BASE TYP. SECURE WITH (8) #12-14x3/4" SDF 3/16 RAIL (TYP) (TYP) TS CONTINUOUS BASE RAIL

CONNECTOR SLEEVE

RAIL (TYP)

COLUMN / BASE RAIL CONNECTION DETAIL CONNECTOR SLEEVE TO BASE TYP. 3/16 RAIL (TYP)

DETAIL

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

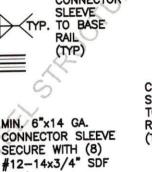
MIN. 6"x14 GA. CONNECTOR SLEEVE SECURE WITH (8) #12-14x3/4" SDF (TYP)

TS COLUMN

TS CONTINUOUS BASE RAIL

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

3/16



CONNECTOR SLEEVE 3/16 TO BASE TYP. 3/16 RAIL (TYP)

**S11** 

COLUMN / BASE RAIL CONNECTION DETAIL SCALE: 1/2" = 1'-0"

DOOR OR WINDOW HEADER

RAIL TO POST CONNECTION

MIN. 6"x14 GA. CONNECTOR SLEEVE SECURE WITH (8) #12-14x3/4" SDF (TYP) TS COLUMN TS DOUBLE HEADER

DOUBLE HEADER / COLUMN CONNECTION DETAIL

(TYP)

- TS COLUMN

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

COLUMN / DOUBLE HEADER CONNECTION DETAIL 6

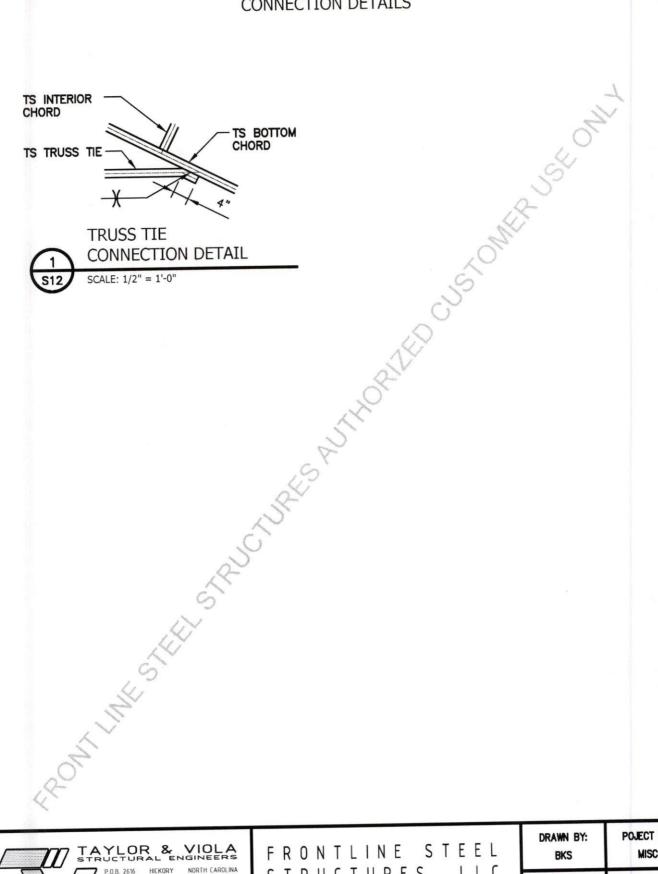
SCALE: 1/2" = 1'-0"

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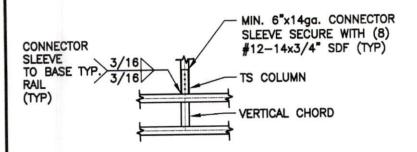
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2022.08.01	S11

# CONNECTION DETAILS



POJECT NO: DRAWN BY: FRONTLINE STEEL TAYLOR & VIOLA MISC **BKS** P.O.B. 2616 HICKORY NORTH CAROLINA TELE: 828–328-6331 FAX: 828–322-1801 WWW . TAYLORVIOLA . COM STRUCTURES, LLC SHEET NO: DATE: MT. AIRY, NORTH CAROLINA **S12** 2022.08.01

#### CONNECTION DETAILS



TS LACED HEADER

VERTICAL CHORD

MIN. 6"x14ga. CONNECTOR SLEEVE SECURE WITH (8) #12-14x3/4" SDF (TYP)

TS COLUMN

1 513

COLUMN / LACED HEADER CONNECTION DETAIL

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

S1

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

S1

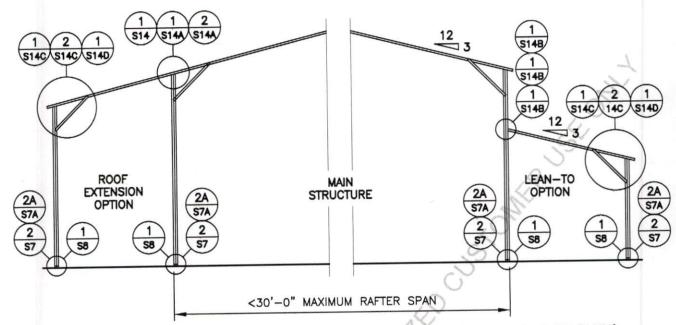
LACED HEADER / COLUMN CONNECTION DETAIL

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

TAYLOR & VIOLA
STRUCTURAL ENGINEERS
P.O.B. 2616 HICKORY NORTH CAROLINA
TELE: 828-328-6331 FAX: 828-322-1801
WWW. TAYLORVIOLA. COM

DRAWN BY:	POJECT NO:
BKS	MISC
DATE: 2022.08.01	SHEET NO:

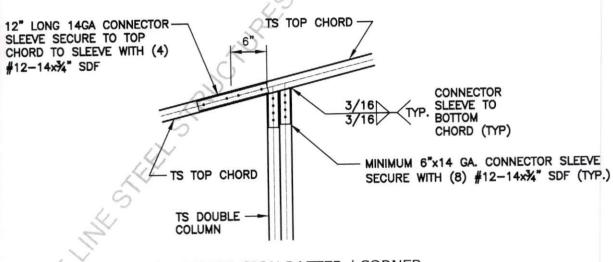
#### LEAN-TO OPTIONS



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

MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE DOUBLE COLUMNS FOR EAVE HEIGHTS <14'-1" TO <16'-0"

MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE SINGLE COLUMN FOR EAVE HEIGHTS <14'-0"



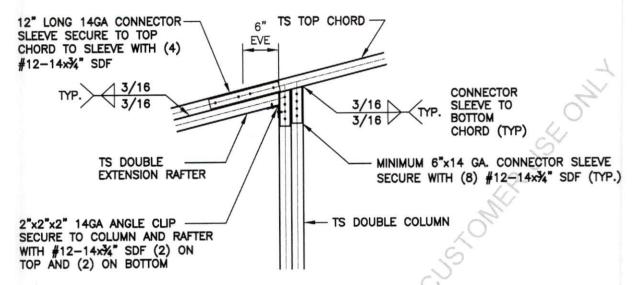
SIDE EXTENSION RAFTER / CORNER
POST DETAIL FOR RAFTER SPAN <12'-0"

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



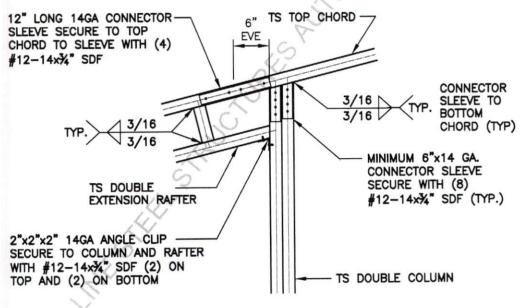
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#### LEAN-TO OPTIONS FOR 41'-0" TO 50'-0"



SIDE EXTENSION RAFTER / CORNER POST
DETAIL FOR RAFTER SPAN <14'-1" TO <15'-0"

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



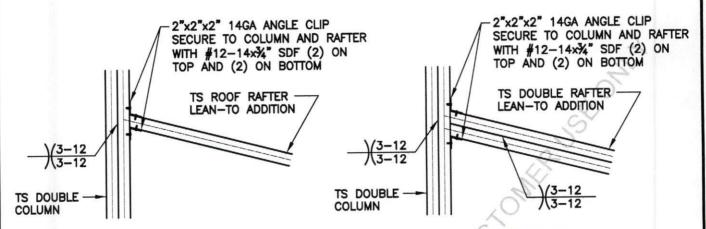
SIDE EXTENSION RAFTER / CORNER POST
DETAIL FOR RAFTER SPAN <15'-1" TO <20'-0"

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



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## LEAN-TO OPTIONS FOR 41'-0" TO 50'-0"



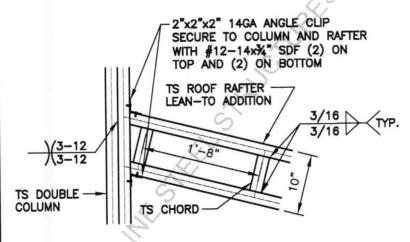
LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR RAFTER SPAN <12'-0"

2 S14B LEAN-TO RAFTER TO RAFTER
POST CONNECTION DETAIL FOR
RAFTER SPAN <12'-1" TO <15'-0"

1 S14B

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

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



LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR RAFTER SPAN <15'-1" TO <20'-0"

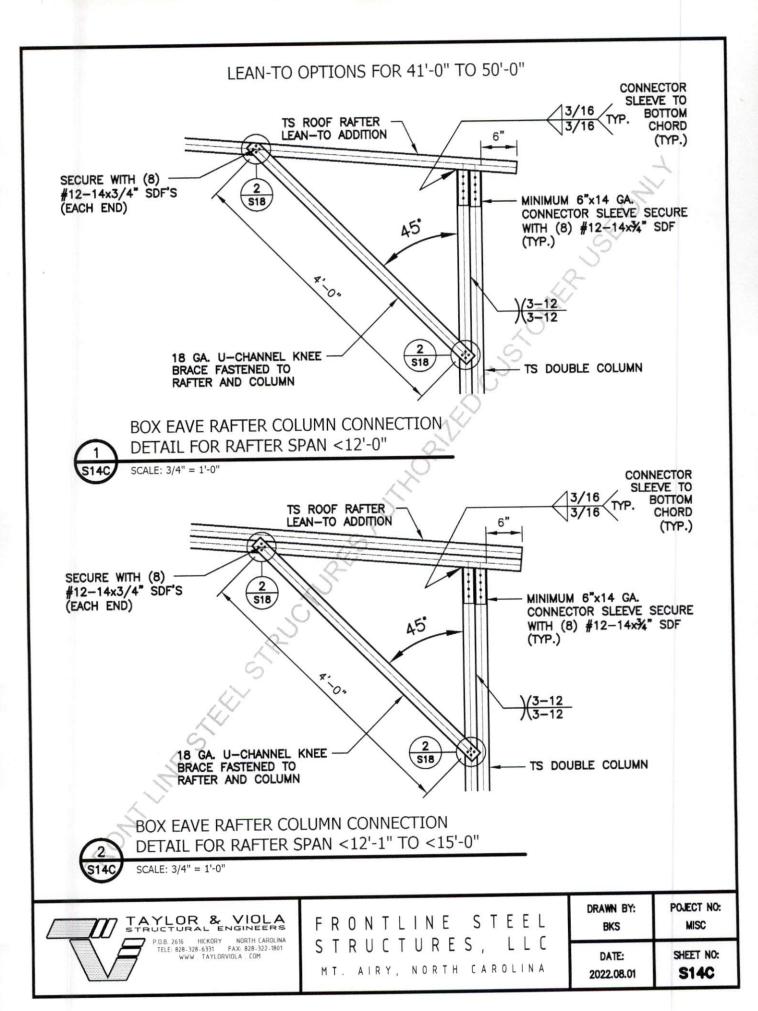


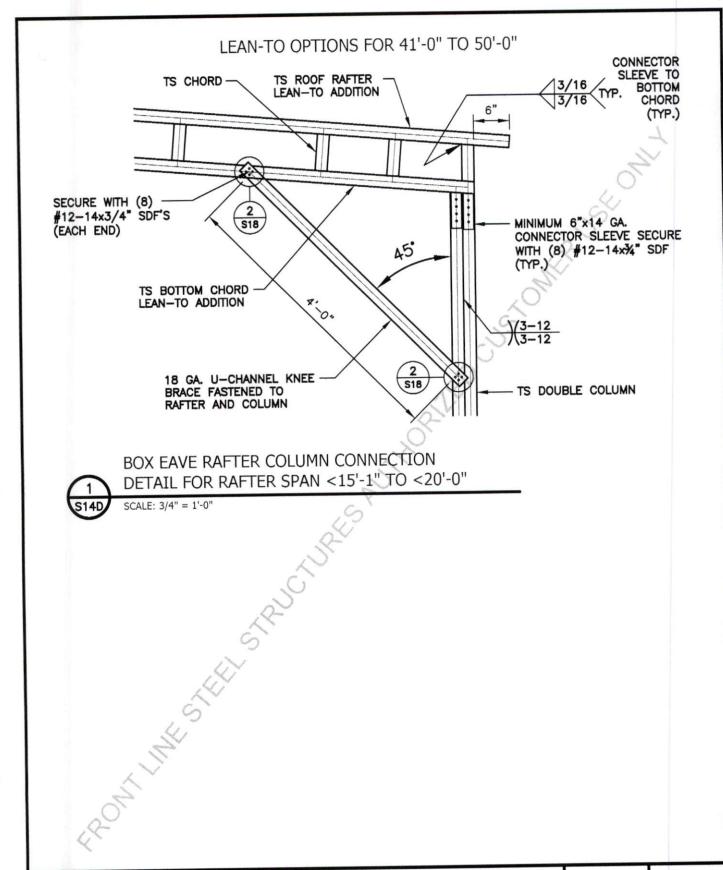
SCALE: 3/4" = 1'-0"



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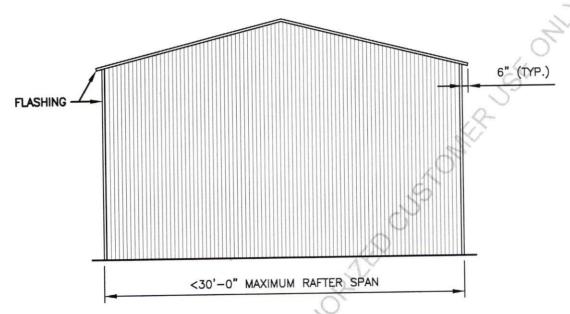


TAYLOR & VIOLA
STRUCTURAL ENGINEERS

P.O.B. 2616 HICKORY NORTH CAROLINA
TELE 828-328-6331 FAX: 828-322-1801
WWW. TAYLORVIOLA . COM

FRONTLINE STEEL STRUCTURES, LLC MT. AIRY, NORTH CAROLINA DRAWN BY:
BKS POJECT NO:
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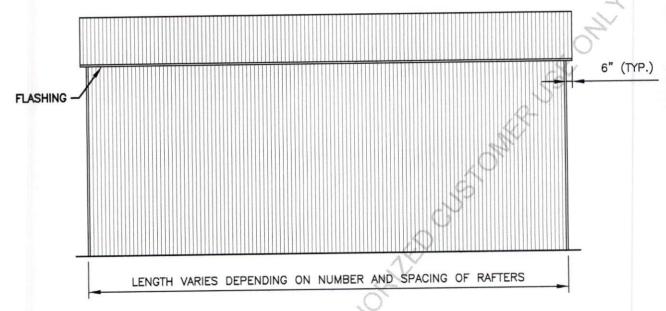


TYPICAL END ELEVATION - VERTICAL ROOF / SIDING

TAYLOR & VIOLA
STRUCTURAL ENGINEERS

P.O.B. 2616 HICKORY NORTH CAROLINA
TELE: 828-328-6331 FAX: 828-322-1801
WWW TAYLORVIOLA COM

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DATE: 2022.08.01	SHEET NO:			



# TYPICAL END ELEVATION - VERTICAL ROOF / SIDING

TAYLOR & VIOLA
STRUCTURAL ENGINEERS

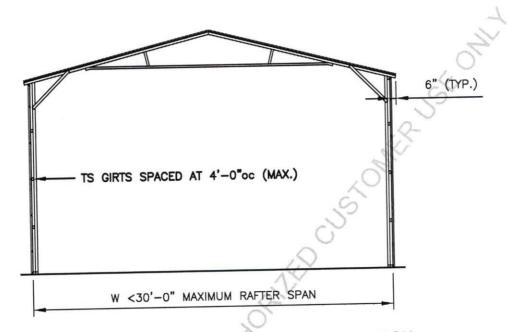
P.O.B. 2616 HICKORY NORTH CAROLINA
TELE: 828-328-6331 FAX: 828-322-1801
WWW TAYLORVIOLA . COM

FRONTLINE STEEL STRUCTURES, LLC MT. AIRY, NORTH CAROLINA DRAWN BY: POJECT NO:
BKS MISC

DATE: SHEET NO:

2022.08.01

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# TYPICAL SECTION VERTICAL ROOF / SIDING OPTION

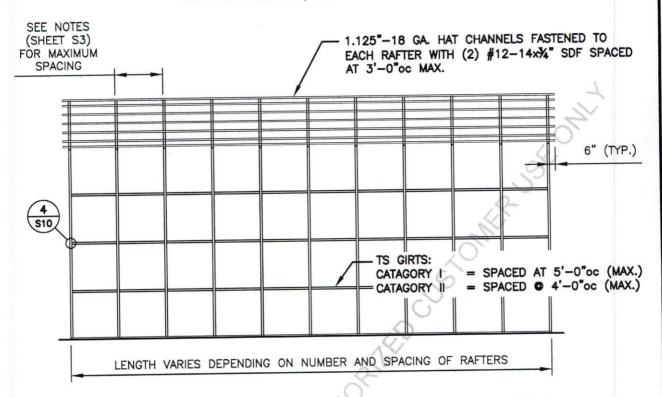
MAIN BUILDING COLUMNS TO BE DOUBLE COLUMNS FOR EAVE HEIGHTS <14'-1" TO <16'-0"

MAIN BUILDING COLUMNS TO BE SINGLE COLUMNS FOR EAVE HEIGHTS <14'-0"



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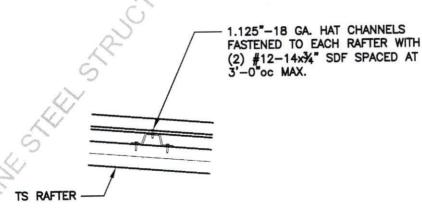
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# TYPICAL SIDE FRAMING SECTION VERTICAL ROOF / SIDING OPTION

NOTE:

1.125"-18 GA. HAT CHANNELS CAN BE USED AS AN OPTION IN PLACE OF TUBE STEEL (TS) WALL GIRTS. HAT CHANNELS MUST BE SPACED AT 3'-0"oc MAX.



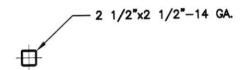
ROOF PANEL ATTACHMENT NTS



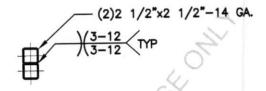
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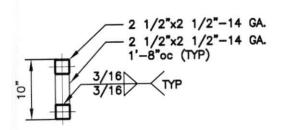
## SIDE WALL HEADER OPTIONS



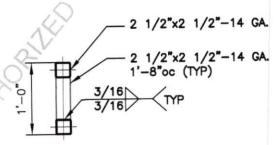
HEADER DETAIL FOR DOOR
OPENINGS < 4'-0"
NTS



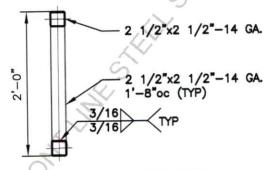
DOUBLE HEADER DETAIL FOR DOOR OPENINGS 4'-1" < TO < 9'-0" NTS



LACED HEADER DETAIL FOR DOOR OPENINGS 9'-1" < TO < 13'-0" NTS



LACED HEADER DETAIL FOR DOOR OPENINGS 13'-1" < TO < 15'-0"



DENINGS 15'-1" < TO < 20'-0"

#### **GENERAL NOTE:**

PROVIDE DOUBLE WYTHE HEADER ON DOUBLE COLUMNS AND LACED COLUMNS

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	P.O.B. 2616	HICKORY	NORTH CAROLINA

P.O.B. 2616 HICKORY NORTH CAROLIN TELE: 828–328–6331 FAX: 828–322–1801 WWW TAYLORVIOLA . COM

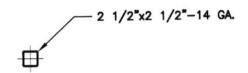
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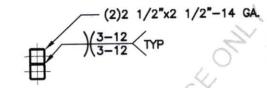
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**S17** 

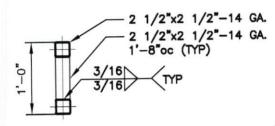
# END WALL HEADER OPTIONS



HEADER DETAIL FOR DOOR
OPENINGS < 10'-0"
NTS



DOUBLE HEADER DETAIL FOR DOOR OPENINGS 10'-1" < TO < 16'-0" NTS



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

GENERAL NOTE:

PROVIDE DOUBLE WYTHE HEADER ON DOUBLE COLUMNS AND LACED COLUMNS

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

FRONTLINE STEEL STRUCTURES, LLC MT. AIRY, NORTH CAROLINA

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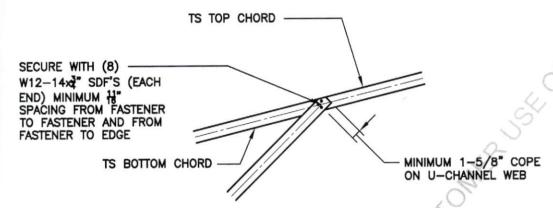
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#### U-CHANNEL CONNECTION DETAILS



1 S18 U-CHANNEL TO RAFTER CONNECTION DETAIL

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

SECURE WITH (8)

W12-14-2" SDF'S (EACH
END) MINIMUM 11"
SPACING FROM FASTENER
TO FASTENER AND FROM
FASTENER TO EDGE

18 GA. U-CHANNEL
KNEE BRACE FASTENED
TO RAFTER AND COLUMN

MINIMUM 1-5/8" COPE
ON U-CHANNEL WEB

 $\binom{2}{S18}$ 

U-CHANNEL TO COLUMN CONNECTION DETAIL

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



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