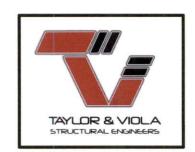


ENCLOSED GABLE END BUILDING MAXIMUM 30'-0" WIDE X 16'-0" EAVE HEIGHT WITH BOX FRAME / (UP TO) 145 M.P.H. WIND ZONE - 30 P.S.F. SNOW LOAD FOR:

CUSTOM BUILT STRUCTURES, INC.
510 RIVERSIDE DRIVE
MOUNT AIRY, NORTH CAROLINA 27030
TELE: 336-415-4520

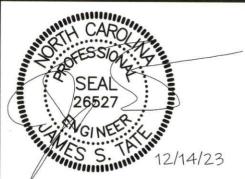
ISSUE DATE: OCTOBER 16, 2023



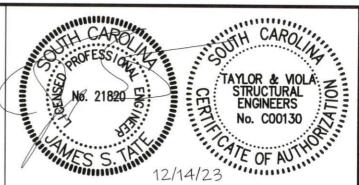




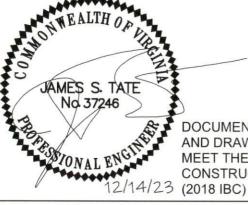
NOTE: THESE DRAWINGS ARE VALID FOR (1) CALENDER YEAR AFTER THE ISSUE DATE LISTED ON THIS SHEET.



DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2018 NC BUILDING CODE (2015 IBC)



DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2021 SC BUILDING CODE (2021 BC)



DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2018 VA CONSTRUCTION CODE



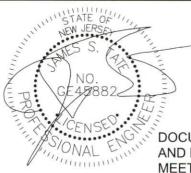
DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2012 IBC



DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2018 IBC



DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2020 BUILDING CODE OF NEW YORK STATE (2018 IBC)



12/14/23

DOCUMENTS DESIGNED AND DRAWN TO MEET THE 20210 BUILDING CODENEW JERSEY EDITION (2021 IBC)



DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2018 IBC



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

JCMT Associates, PLLC 211 Stone Drive, Pilot Mountain, NC 27041 Telephone: (336) 399-6277 CUSTOM BUILT STRUCTURES, INC.

DRAWN BY:	POJECT NO:	
BKS	23-509	
DATE: 2023.10.16	SHEET NO:	



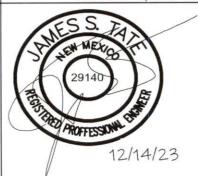
DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2018 IBC



DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2021 BUILDING CODE OF ALABAMA (2021 IBC)



DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2018 IBC



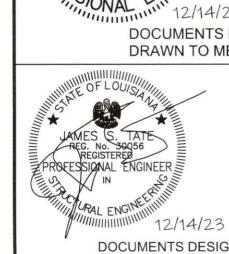
DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2021 IBC



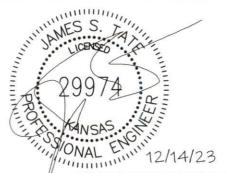
DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2017 IBC



DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2012 IBC



DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2023 LSUCCC/2018 IBC



DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2021 IBC



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

JCMT Associates, PLLC 211 Stone Drive, Pilot Mountain, NC 27041 Telephone: (336) 399-6277 CUSTOM BUILT STRUCTURES, INC.

DRAWN BY:	POJECT NO:	
BKS	23-509	
DATE: 2023.10.16	SHEET NO:	

SHEET INDEX

SHEET NUMBER	SHEET TITLE
so ———	SEALED COVER SHEET
S1 ———	P.E. SEALS SHEET
S1A	P.E. SEALS SHEET
S2 ———	DRAWING INDEX
S3 ———	GENERAL NOTES AND SPECIFICATIONS
S4 ———	SIDE AND END ELEVATIONS
S5 ———	TYPICAL RAFTER / COLUMN FRAME SECTIONS
S5A ———	TYPICAL RAFTER / COLUMN FRAME SECTIONS
S5B	TYPICAL RAFTER / COLUMN FRAME AND SIDE FRAMING SECTION
S6 ———	COLUMN CONNECTION DETAILS (LACED COLUMN)
S6A	COLUMN CONNECTION DETAILS (DOUBLE AND SINGLE COLUMN)
S6B	COLUMN CONNECTION DETAILS (LACED COLUMN)
S6C	COLUMN CONNECTION DETAILS (DOUBLE AND SINGLE COLUMN)
S7 ———	BASE RAIL ANCHORAGE
S7A	BASE RAIL ANCHORAGE
S8 ———	BASE RAIL ANCHORAGE
S8A	BASE RAIL ANCHORAGE
S9 ———	TYPICAL END WALL OPENINGS FRAMING SECTIONS
S9A	TYPICAL SIDE WALL OPENINGS FRAMING SECTIONS
S10 ———	CONNECTION DETAILS
S11 ———	CONNECTION DETAILS
S12 ———	CONNECTION DETAILS
S13 ———	CONNECTION DETAILS
S14 ———	CONNECTION DETAILS
S15 ———	LEAN-TO OPTIONS
S15A	LEAN-TO CONNECTION DETAILS
	LEAN-TO CONNECTION DETAILS
	LEAN-TO CONNECTION DETAILS
S16 ———	VERTICAL ROOF / SIDING OPTION END AND SIDE ELEVATION
S16A	VERTICAL ROOF / SIDING OPTION END SECTION
S16B	VERTICAL ROOF / SIDING OPTION SIDE SECTION
S17 ———	SIDE WALL HEADER OPTIONS
S17A ———	END WALL HEADER OPTIONS

TAYLOR & VIOLA	CUSTOM BUILT
P.O.B. 2616 HICKORY NORTH CAROLINA TELE: 828-328-6331 FAX: 828-322-1801 WWW . TAYLORYOLA . COM	STRUCTURES, INC.
JCMT Associates, PLLC 211 Stone Drive, Pilot Mountain, NC 27041 Telephone: (336) 399-6277	510 RIVERSIDE DRIVE MOUNT AIRY, NORTH CAROLINA 27030 TELE: 336-415-4520

DRAWN BY:	POJECT NO:
BKS	23-509
DATE: 2023.10.16	SHEET NO:

DESIGN LOADS:				
	SNOW (1s)	1.00 1.00 1.00		
	ROOF ROOF COLLATERAL	13 P.S.F. 0 P.S.F.		
LIVE LOADS	ROOF			
GROUND SNOW LOAD:		30 P.S.F. * DRIFT LOAD HAS NOT BEE	EN CALCULATED	
	BASIC WIND SPEED EXPOSURE CATAGORY	V 145 M.P.H. (ASCE 7-16)		
SEISMIC DESIGN CATAGORY		A B X C D		
PROVIDE THE FOLLOWING SEIS	MIC DESIGN PARAMETE	ERS:		
OCCUPANCY CATEGORY	+NOT FOR SLEE	PING QUARTERS		
SPECTRAL RESPONSE ACCELE	RATION S8	20.5 %g S1 <u>8.8</u> %g		
SITE CLASSIFICATION D	_ FIELD TEST	. PRESUMPTIVE . HISTORICAL DAT	Ä	
BASIC STRUCTURAL SYSTEM (CHECK ONE)			
BEARING WALL BUILDING FRAME MOMENT FRAME		SPECTRAL MOMENT FRAME INTERMEDIATE R/C OR SPECIAL STEEL PENDULUM		
ANALYSIS PROCEDURE	SIMPLIFIEDX_	EQUIVALANT LATERAL FORCE MO	DDAL	
LATERAL DESIGN CONTROL?	EARTHQUAKE	X WND		
SOIL BEARING CAPACITIES: PRESUMPTIVE BEARING CAPAC	CITIES:	<u>2,000</u> P.S.F.		
GENERAL NOTES:				_
1. MAX FRAME SPACING SH	ALL BE 60"oc UNLESS	s noted otherwise.		
2. MAX. END-WALL COLUMN	SPACING SHALL BE	60"oc unless noted otherwise.		
3. TUBE MATERIAL SHALL E	3. TUBE MATERIAL SHALL BE 2-1/2" x 2-1/2" x 14ga. 50 K.S.I. MIN. UNLESS NOTED OTHERWISE.			
4. ALL FASTENERS SHALL E	4. ALL FASTENERS SHALL BE (2) #12 SELF TAPPING AT 9"o.c. UNLESS NOTED OTHERWISE.			
2000 - Name Constitution of American Street Management (Management	5. 2,000 P.S.F. ASSUMED BEARING CAPACITY UNLESS NOTED OTHERWISE.			
	,			
 IF FRAME SPACING IS AT TO 36 P.S.F. (EXCLUDING 		WALLS) - GROUND SNOW LOAD CAN INCREA	ASE	
TAYLOR & VIOL STRUCTURAL ENGINEE P.O.B. 2616 HICKORY NORTH CAR TELE 828-328-6331 FAX 828-322	RS	STOM BUILT JCTURES, INC.	DRAWN BY: BKS	POJECT NO: 23-509
JCMT Associates, PLLC 211 Stone Drive, Pilot Mountain, NC 27041 Telephone: (336) 399-6277	***************************************	510 RIVERSIDE DRIVE IT AIRY, NORTH CAROLINA 27030 TELE: 336-415-4520	DATE: 2023.10.16	SHEET NO:

BOX EVE FRAME RAFTER STURCTURE ROLL-UP DOOR PERSONNEL DOOR (AS APPLICABLE) (AS APPLICABLE) 6" (TYP.) FLASHING -W < 30'-0" MAXIMUM RAFTER SPAN TYPICAL END ELEVATION WINDOW (AS APPLICABLE) 6" (TYP.) FLASHING -LENGTH VARIES DEPENDING ON NUMBER AND SPACING OF RAFTERS TYPICAL SIDE ELEVATION TAYLOR & VIOLA STRUCTURAL ENGINEERS P.O.B. 2616 HICKORY NORTH CAROLINA TELE 828-328-6331 FAX: 828-322-1801 WWW . TAYLORVIOLA . COM CUSTOM BUILT DRAWN BY: POJECT NO: STRUCTURES, INC. BKS 23-509

JCMT Associates, PLLC

211 Stone Drive, Pilot Mountain, NC 27041 Telephone: (336) 399-6277 510 RIVERSIDE DRIVE

MOUNT AIRY, NORTH CAROLINA 27030

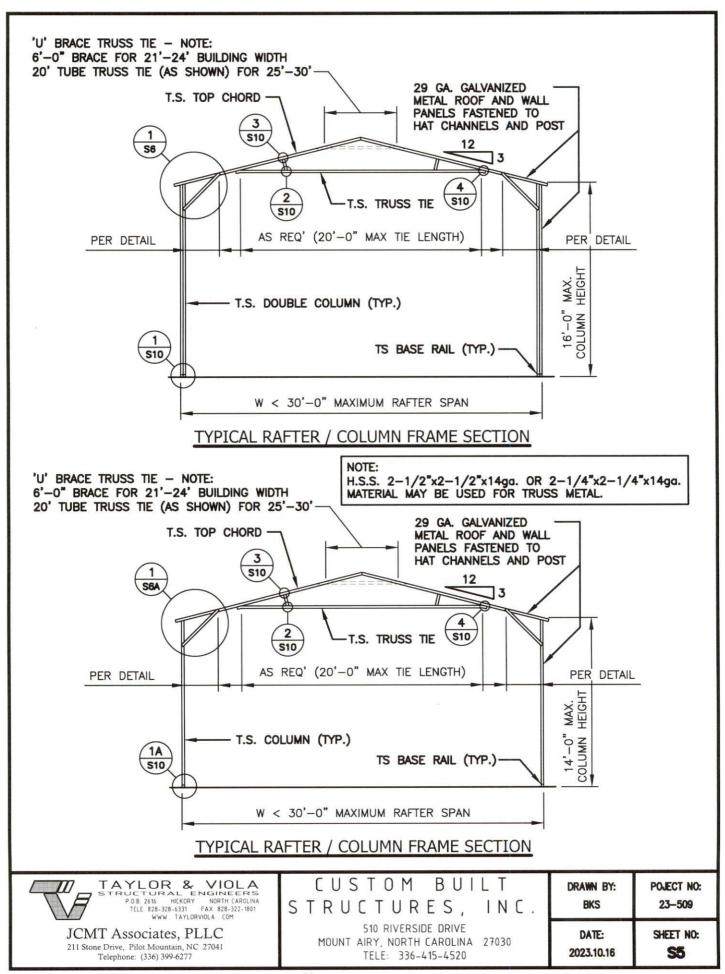
TELE: 336-415-4520

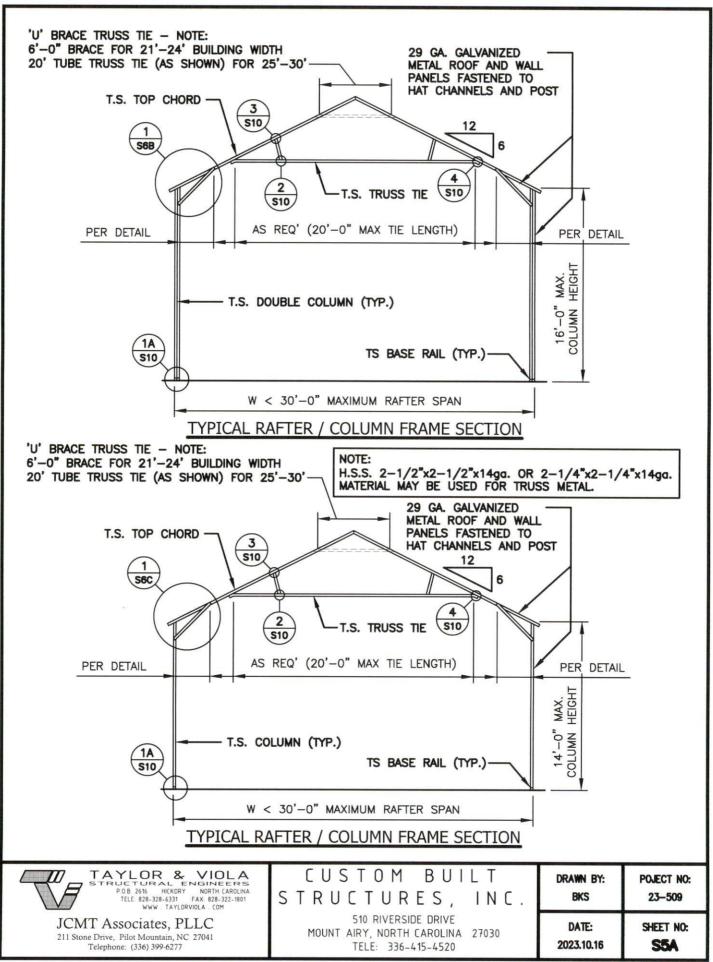
DATE:

2023.10.16

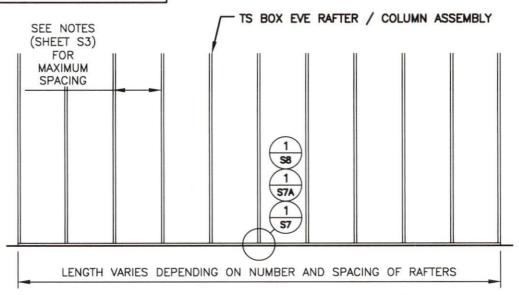
SHEET NO:

S4





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

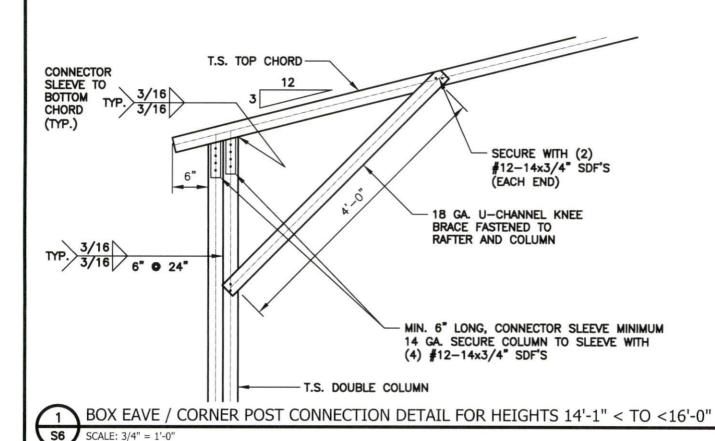


JCMT Associates, PLLC 211 Stone Drive, Pilot Mountain, NC 27041 Telephone: (336) 399-6277 CUSTOM BUILT STRUCTURES, INC.

510 RIVERSIDE DRIVE
MOUNT AIRY, NORTH CAROLINA 27030
TELE: 336-415-4520

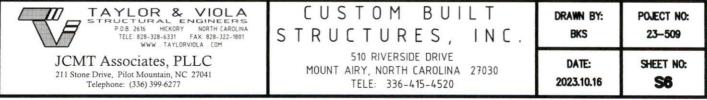
DRAWN BY: POJECT NO: BKS 23-509

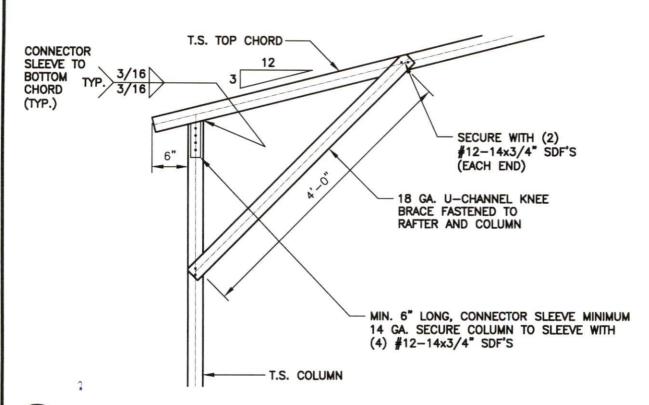
DATE: SHEET NO: 2023.10.16 **S5B**



BRACE
SECTION

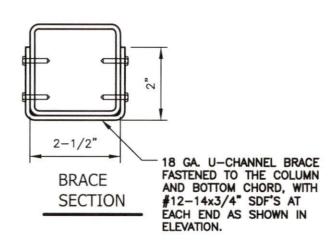
18 GA. U-CHANNEL BRACE
FASTENED TO THE COLUMN
AND BOTTOM CHORD, WITH
#12-14x3/4" SDF'S AT
EACH END AS SHOWN IN
ELEVATION.

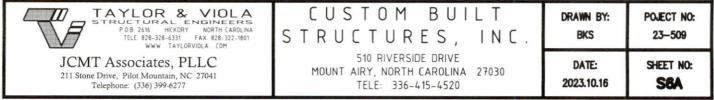


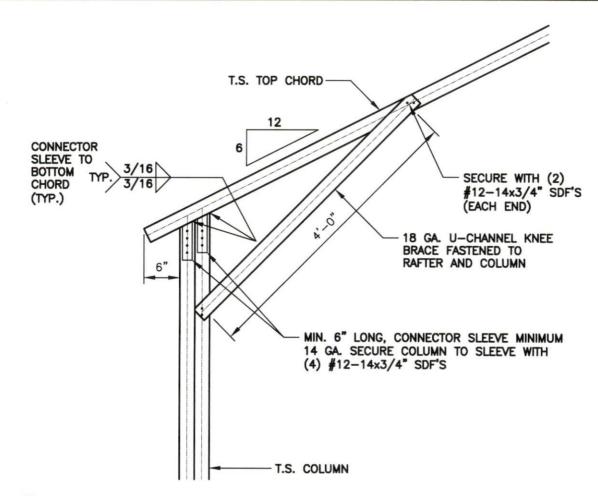


BOX EAVE / CORNER POST CONNECTION DETAIL FOR HEIGHTS < 14'-0"

S6A SCALE: 3/4" = 1'-0

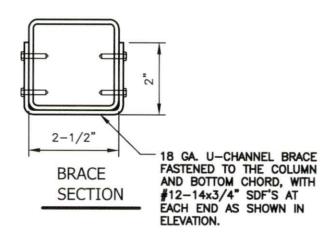






1 BOX EAVE / CORNER POST CONNECTION DETAIL FOR HEIGHTS 14'-1" < TO <16'-0"

S6C | SCALE: 3/4" = 1'-0"



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

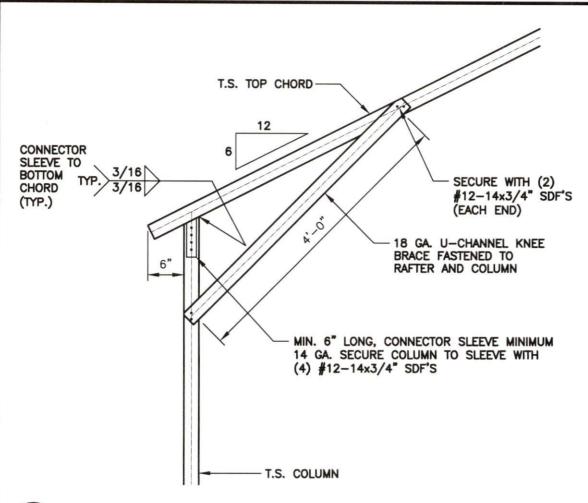
JCMT Associates, PLLC
211 Stone Drive, Pilot Mountain, NC 27041
Telephone: (336) 399-6277

CUSTOM BUILT STRUCTURES, INC. 510 RIVERSIDE DRIVE

510 RIVERSIDE DRIVE MOUNT AIRY, NORTH CAROLINA 27030 TELE: 336-415-4520 DRAWN BY: POJECT NO: 23-509

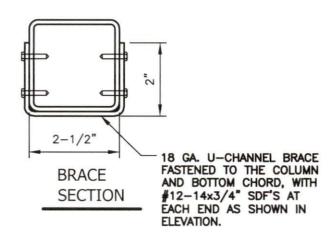
DATE: SHEET NO: 2023.10.16

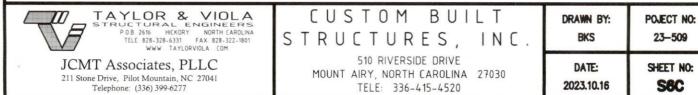
DRAWN BY: POJECT NO: 23-509



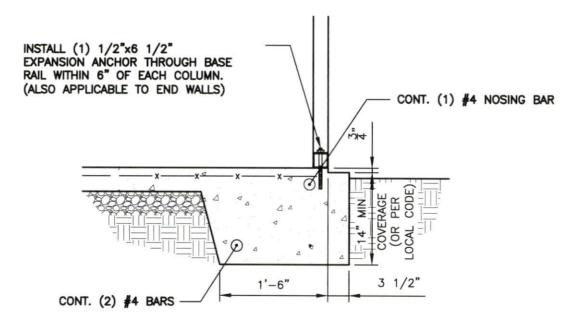
BOX EAVE / CORNER POST CONNECTION DETAIL FOR HEIGHTS < 14'-0"

S6C | SCALE: 3/4" = 1'-0"





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:

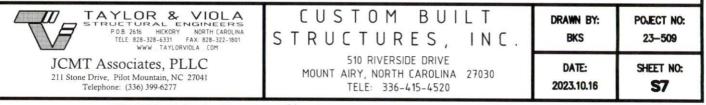
3" IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH AND WEATHER AND 1-1/2" ELSEWHERE.

REINFORCING STEEL:

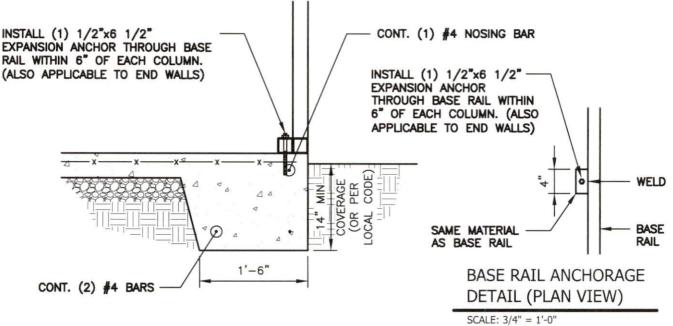
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

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

- 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.



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:

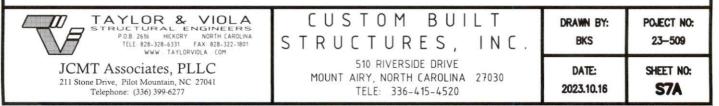
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

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

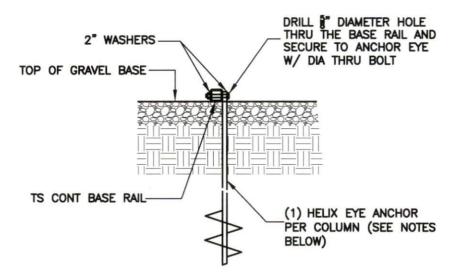
1. REINFORCEMENT IS BENT COLD.

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.



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 — ONE EACH END BASE RAIL AND 20'-0"oc MAX. WITH #4 REBAR AT 5'-0"oc BETWEEN.

FOR CORAL, USE MIN (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT OR SINGLE 6" HELIX WITH 50" EMBEDMENT — ONE EACH END BASE RAIL AND 20'-0"oc MAX. WITH #4 REBAR AT 5'-0"oc BETWEEN.

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 - ONE EACH END BASE RAIL AND 20'-0"oc MAX. WITH #4 REBAR AT 5'-0"oc BETWEEN.

FOR LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS, USE MIN (2) 6" HELICES WITH MINIMUM 50" EMBEDMENT — ONE EACH END BASE RAIL AND 20'-0"oc MAX. WITH #4 REBAR AT 5'-0"oc BETWEEN.

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 — ONE EACH END BASE RAIL AND 20'-0"oc MAX. WITH #4 REBAR AT 5'-0"oc BETWEEN.

NOTE:

IN ALL CASES, IF FROST DEPTH EXCEEDS STATED DEPTH, ANCHOR SHOULD EXTEND A MIN. OF 12" BELOW FROST LINE.



TAYLOR & VIOLA
STRUCTURAL ENGINEERS
P.O.8. 2616 HICKORY NORTH CAROLINA
TELE 828-328-6331 FAX. 828-322-881
WWW TAYLORVIOLA COM

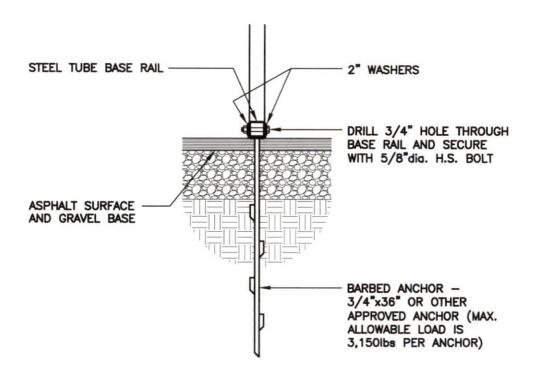
JCMT Associates, PLLC 211 Stone Drive, Pilot Mountain, NC 27041 Telephone: (336) 399-6277 CUSTOM BUILT STRUCTURES, INC.

510 RIVERSIDE DRIVE
MOUNT AIRY, NORTH CAROLINA 27030
TELE: 336-415-4520

DRAWN BY: POJECT NO: 23-509

DATE: SHEET NO: 2023.10.16

ASPHALT ANCHOR BASE RAIL ANCHORAGE



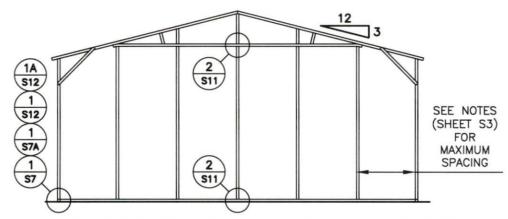


ASPHALT / BASE RAIL ANCHORAGE DETAIL

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

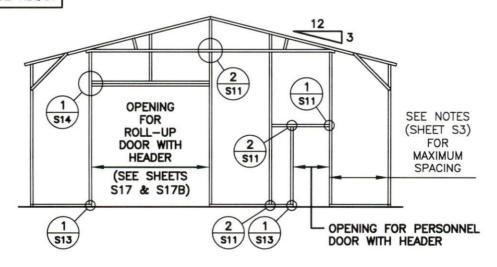
CUSTOM BUILT TAYLOR & VIOLA
STRUCTURAL ENGINEERS
P.O.B. 2616 HICKORY NORTH CAROLINA
TELE: 828-328-6331 FAX: 828-322-1801
WWW TAYLORVIOLA COM DRAWN BY: POJECT NO: STRUCTURES, INC. BKS 23-509 510 RIVERSIDE DRIVE JCMT Associates, PLLC DATE: SHEET NO: MOUNT AIRY, NORTH CAROLINA 27030 211 Stone Drive, Pilot Mountain, NC 27041 S8A 2023.10.16 TELE: 336-415-4520 Telephone: (336) 399-6277

BOX EVE RAFTER END WALL OPENINGS



TYPICAL BOX EVE RAFTER / END WALL COLUMN FRAME SECTION

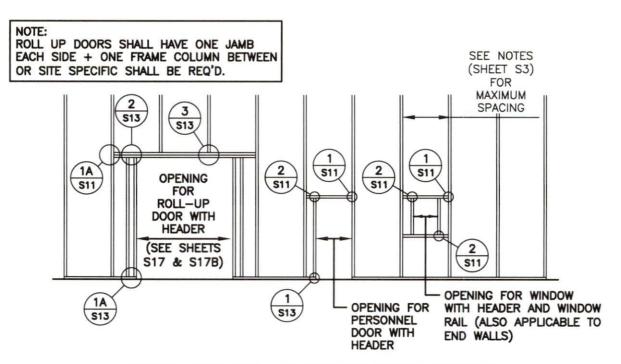
NOTE:
ROLL UP DOORS SHALL
HAVE ONE JAMB EACH
SIDE + ONE FRAME
COLUMN BETWEEN OR SITE
SPECIFIC SHALL BE REQ'D.



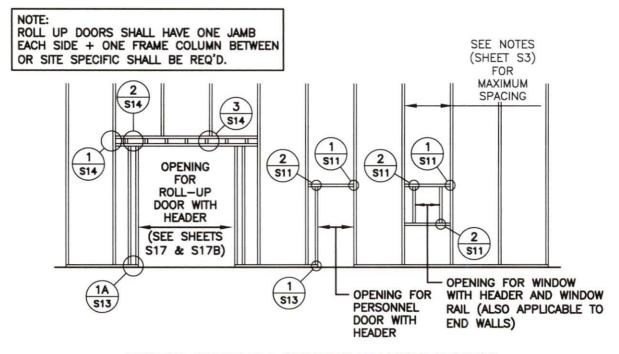
TYPICAL BOX EVE RAFTER END WALL OPENINGS FRAMING SECTION



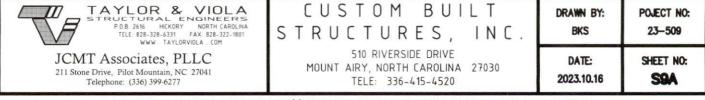
BOX EVE RAFTER END WALL AND SIDE WALL OPENINGS



TYPICAL END WALL OPENING FRAMING SECTION



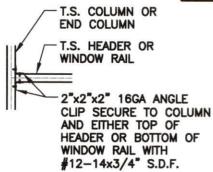
TYPICAL SIDE WALL OPENING FRAMING SECTION



CONNECTION DETAILS MIN. 8"x14 GA. MIN. 8"x14 GA. T.S. DOUBLE T.S. COLUMN -CONNECTOR SLEEVE CONNECTOR SLEEVE COLUMN SECURE WITH (4) #12-14x3/4" S.D.F. SECURE WITH (4) #12-14x3/4" S.D.F. CONNECTOR CONNECTOR 3/16 TYP. SLEEVE TO 3/16 TYP. BASE RAIL)(3/12 3/12 SLEEVE TO 3/16 BASE RAIL (TYP.) (TYP.) T.S. CONTINUOUS T.S. CONTINUOUS BASE RAIL BASE RAIL POST / BASE RAIL POST / BASE RAIL CONNECTION DETAIL CONNECTION DETAIL SCALE: 1/2" = 1'-0" SCALE: 1/2" = 1'-0" $\frac{13/16}{3/16}$ TYP. T.S. TOP CHORD T.S. INTERMEDIATE CHORD T.S. INTERMEDIATE CHORD T.S. BOTTOM INTERMEDIATE CHORD TO BOTTOM CHORD INTERMEDIATE CHORD TO TOP CHORD CONNECTION DETAIL CONNECTION DETAIL SCALE: 1/2" = 1'-0" SCALE: 1/2" = 1'-0" T.S. TOP CHORD T.S. TRUSS TIE TRUSS TIE 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 CUSTOM BUILT DRAWN BY: POJECT NO:

BKS

23-509



COLUMN OR WINDOW RAIL / WALL GIRT TO POST CONNECTION DETAIL



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

T.S. COLUMN OR
END COLUMN

T.S. DOUBLE HEADER

3/12

2"x2"x2" 16GA ANGLE CLIP
SECURE TO COLUMN AND
EITHER TOP OF HEADER OR
BOTTOM OF WINDOW RAIL
WITH #12-14x3/4" S.D.F.

COLUMN / DOUBLE HEADER CONNECTION DETAIL



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

T.S. END POST OR
DOOR WINDOW
FRAME POST

T.S.
NON-STRUCTURAL
HEADER, BASE
RAIL, OR
WINDOW RAIL

T.S. TRUSS RAFTER
CHORD OR HEADER

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)

DOOR OR WINDOW HEADER RAIL TO POST CONNECTION DETAIL

ON SIDE



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

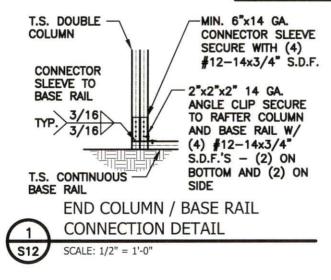
JCMT Associates, PLLC

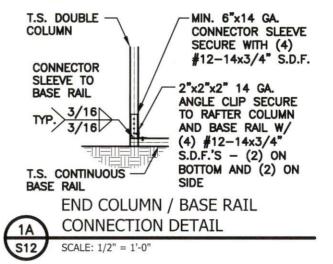
JCMT Associates, PLLC 211 Stone Drive, Pilot Mountain, NC 27041 Telephone: (336) 399-6277 CUSTOM BUILT STRUCTURES, INC.

510 RIVERSIDE DRIVE
MOUNT AIRY, NORTH CAROLINA 27030
TELE: 336-415-4520

DRAWN BY: POJECT NO: 23-509

DATE: SHEET NO: 2023.10.16





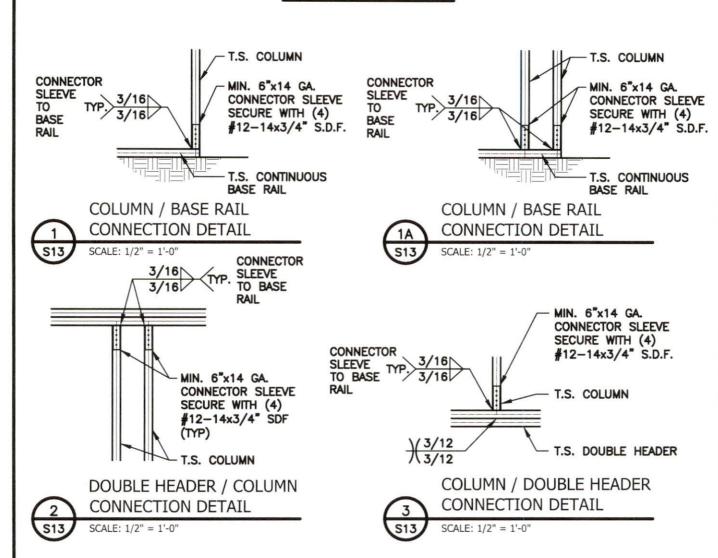
TAYLOR & VIOLA
STRUCTURAL ENGINEERS
P.O.B. 2616 HICKORY NORTH CAROLINA
TELE: 828-328-6331 FAX: 828-322-1801
WWW. TAYLORVIOLA. COM

JCMT Associates, PLLC 211 Stone Drive, Pilot Mountain, NC 27041 Telephone: (336) 399-6277 CUSTOM BUILT STRUCTURES, INC.

510 RIVERSIDE DRIVE
MOUNT AIRY, NORTH CAROLINA 27030
TELE: 336-415-4520

DRAWN BY: POJECT NO: 23-509

DATE: SHEET NO: 2023.10.16

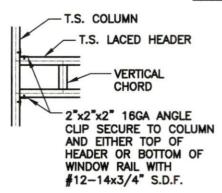




Telephone: (336) 399-6277

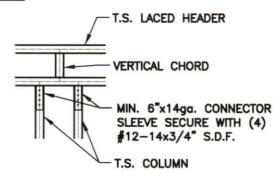
C U :	S T O M	BUI	LT
STRU	CTUR	ES,	INC
	E40 DIVIERGI	DE DDU/E	

DRAWN BY:	POJECT NO:	
BKS	23-509	
DATE:	SHEET NO:	
2023.10.16	S13	



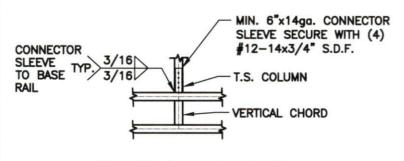
COLUMN / LACED HEADER
CONNECTION DETAIL

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



LACED HEADER / COLUMN
CONNECTION DETAIL

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



COLUMN / LACED HEADER
CONNECTION DETAIL

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

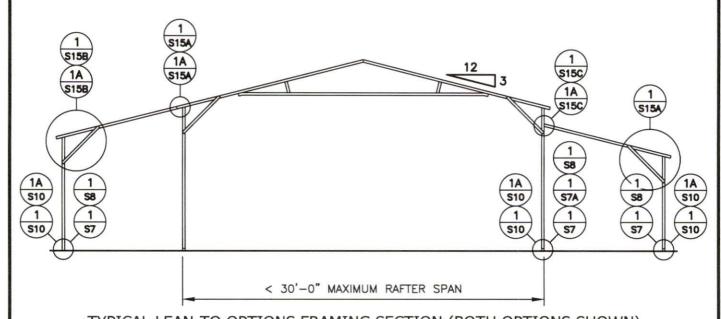


JCMT Associates, PLLC 211 Stone Drive, Pilot Mountain, NC 27041 Telephone: (336) 399-6277

CUSTOM BUILT STRUCTURES, INC.

DRAWN BY: BKS	POJECT NO: 23-509	
DATE: 2023.10.16	SHEET NO:	

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 SINGLE MEMBER ROOF EXTENSION AND LEAN—TO OPTION IS 12'-0"

MAXIMUM WIDTH OF DOUBLE MEMBER ROOF EXTENSION AND LEAN—TO IS 15'-0"

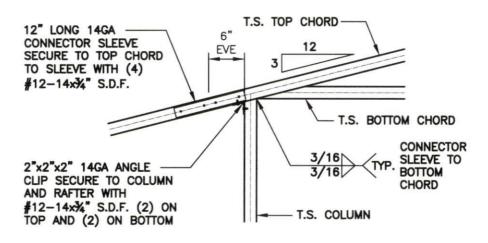
12'-0" MAX. LEAN—TO HEIGHT WITH SINGLE COLUMN

\overline{m}	TAYLO	₹ &	VIOLA
B	STRUCTUR P.O.B. 2616		NORTH (AROLINA
			FAX. 828-322-1801 VIOLA . COM
ICN	TT Associat	oo DI	T.C

JCMT Associates, PLLC 211 Stone Drive, Pilot Mountain, NC 27041 Telephone: (336) 399-6277 CUSTOM BUILT STRUCTURES, INC.

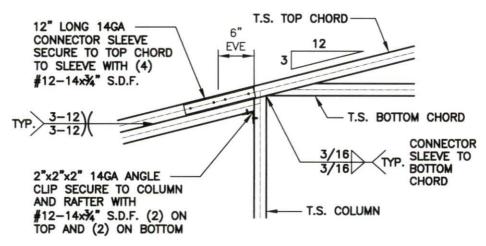
DRAWN BY:	POJECT NO:	
BKS	23-509	
DATE: 2023.10.16	SHEET NO:	

LEAN-TO CONNECTION DETAILS



1 S15A ROOF EXTENSION RAFTER / CORNER POST DETAIL FOR WIDTHS < 12'-0"

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



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

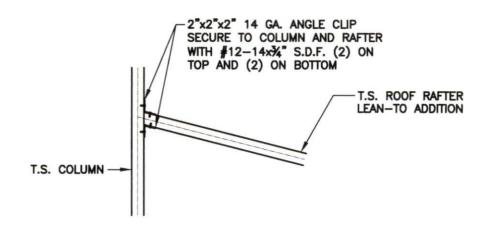
1A S15A

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

TAYLOR & VIOLA STRUCTURAL ENGINEERS P.O. B. 2616 HICKORY NORTH CAROLINA ITLE 828-328-6331 FAX 828-322-1801 WWW TAYLORVIOLA COM	CUSTOM BUILT	DRAWN BY:	POJECT NO:
	STRUCTURES, INC.	BKS	23-509
JCMT Associates, PLLC 211 Stone Drive, Pilot Mountain, NC 27041 Telephone: (336) 399-6277	510 RIVERSIDE DRIVE MOUNT AIRY, NORTH CAROLINA 27030 TELE: 336–415–4520	DATE: 2023.10.16	SHEET NO: S15A

LEAN-TO CONNECTION DETAILS CONNECTOR 3/16 TYP. SLEEVE TO T.S. ROOF RAFTER **BOTTOM** LEAN-TO ADDITION CHORD SECURE WITH (2) — #12-14x3/4" SDF'S (EACH END) MINIMUM 6"x14 GA. CONNECTOR SLEEVE SECURE WITH (4) #12-14x3/4" S.D.F. - 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 <12'-0" SCALE: 3/4" = 1'-0" CONNECTOR 3/16 SLEEVE TO T.S. ROOF RAFTER BOTTOM 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. 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" SCALE: 3/4" = 1'-0" CUSTOM BUILT TAYLOR & VIOLA STRUCTURAL ENGINEERS POB 2616 HICKORY NORTH CAROLINA TELE 828-328-6331 FAX 828-322-1801 WWW TAYLORVIOLA COM DRAWN BY: POJECT NO: BKS 23-509 STRUCTURES, INC. 510 RIVERSIDE DRIVE JCMT Associates, PLLC DATE: SHEET NO: MOUNT AIRY, NORTH CAROLINA 27030 211 Stone Drive, Pilot Mountain, NC 27041 2023.10.16 **S15B** TELE: 336-415-4520 Telephone: (336) 399-6277

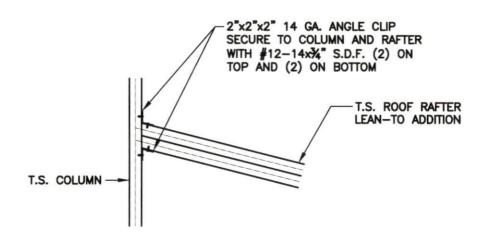
LEAN-TO CONNECTION DETAILS



1 \$15C

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"

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



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

JCMT Associates, PLLC

211 Stone Drive, Pilot Mountain, NC 27041 Telephone: (336) 399-6277 CUSTOM BUILT STRUCTURES, INC.

> 510 RIVERSIDE DRIVE MOUNT AIRY, NORTH CAROLINA 27030 TELE: 336-415-4520

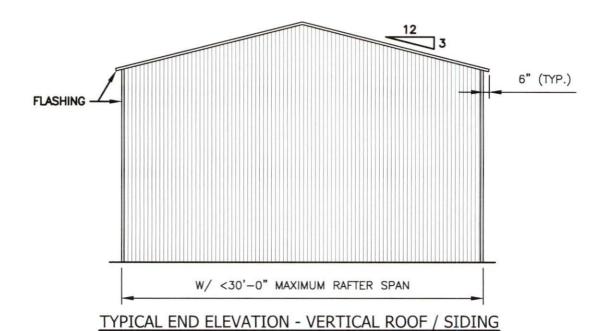
DRAWN BY: BKS

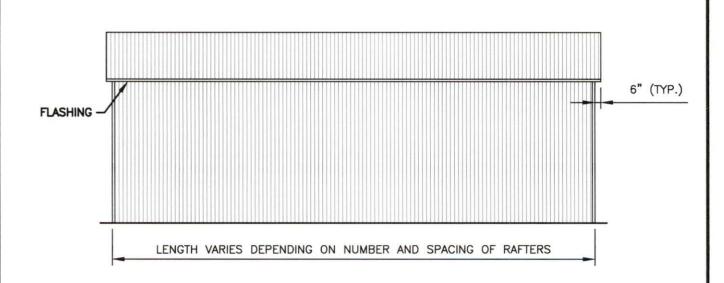
POJECT NO: 23-509

- 1

DATE: SHEET NO: 2023.10.16 S15C

VERTICAL ROOF / SIDING OPTION





TYPICAL SIDE ELEVATION - VERTICAL ROOF / SIDING



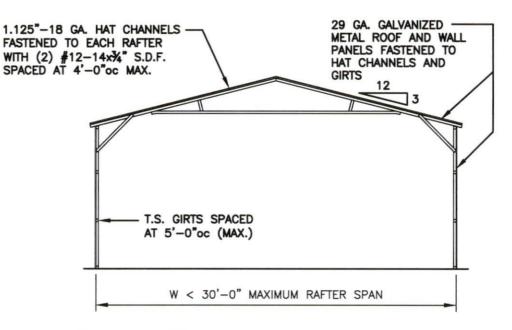
JCMT Associates, PLLC 211 Stone Drive, Pilot Mountain, NC 27041 Telephone: (336) 399-6277 CUSTOM BUILT STRUCTURES, INC.

510 RIVERSIDE DRIVE
MOUNT AIRY, NORTH CAROLINA 27030
TELE: 336-415-4520

DRAWN BY: POJECT NO: 23-509

DATE: SHEET NO: 2023.10.16 **\$16**

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.



JCMT Associates, PLLC 211 Stone Drive, Pilot Mountain, NC 27041 Telephone: (336) 399-6277 CUSTOM BUILT STRUCTURES, INC.

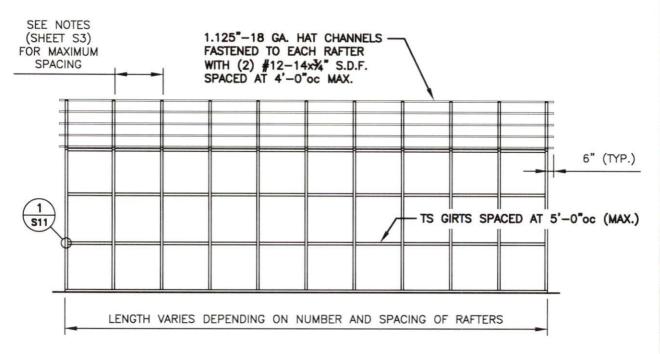
> 510 RIVERSIDE DRIVE MOUNT AIRY, NORTH CAROLINA 27030 TELE: 336-415-4520

DRAWN BY: BKS

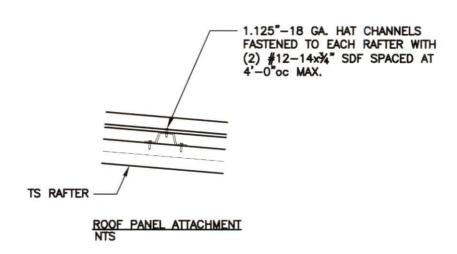
POJECT NO: 23-509

DATE: 2023.10.16 SHEET NO: S16A

VERTICAL ROOF / SIDING OPTION

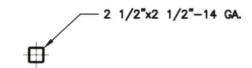


TYPICAL SIDE FRAMING SECTION VERTICAL ROOF / SIDING OPTION

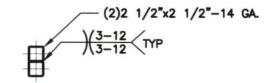


TAYLOR & VIOLA STRUCTURAL ENGINEERS POB 2616 HICKORY NORTH (AROLINA TELE 828-328-6331 FAX 828-322-1801 WWW TAYLORVIOLA COM	CUSTOM BUILT	DRAWN BY:	POJECT NO:
	STRUCTURES, INC.	BKS	23-509
JCMT Associates, PLLC 211 Stone Drive, Pilot Mountain, NC 27041 Telephone: (336) 399-6277	510 RIVERSIDE DRIVE MOUNT AIRY, NORTH CAROLINA 27030 TELE: 336-415-4520	DATE: 2023.10.16	SHEET NO: S16B

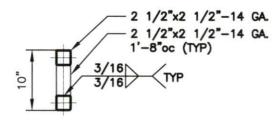
SIDE WALL HEADER OPTIONS



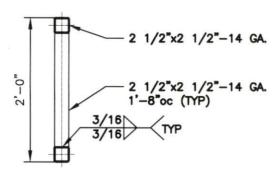
HEADER DETAIL FOR DOOR OPENINGS < 4'-0" NTS



HEADER DETAIL FOR DOOR OPENINGS 4'-1" < TO < 12'-0" NTS



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



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



TAYLOR & VIOLA
STRUCTURAL ENGINEERS
P.O.8. 2616 HICKORY NORTH CAROLINA
TELE 828-328-6331 FAX: 828-322-1801
WWW TAYLORVIOLA COM

JCMT Associates, PLLC

211 Stone Drive, Pilot Mountain, NC 27041 Telephone: (336) 399-6277

	CU	S T C) M	BUI	L	Τ
S	TRU	CT	URE	ES,	1	NC

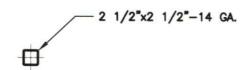
510 RIVERSIDE DRIVE MOUNT AIRY, NORTH CAROLINA 27030 TELE: 336-415-4520

DRAWN BY: POJECT NO: BKS

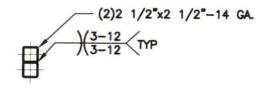
DATE: SHEET NO: **S17** 2023.10.16

23-509

END WALL HEADER OPTIONS



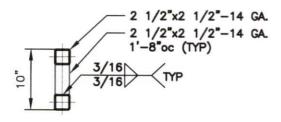
HEADER DETAIL FOR DOOR OPENINGS < 7'-0" NTS



HEADER DETAIL FOR DOOR

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

NTS



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

	TAYLOR & VIOLA
	POB 2616 HICKORY NORTH CAROLINA
	TELE: 828-328-6331 FAX: 828-322-1801 WWW TAYLORVIOLA COM
ICM	T Associates DI I C

JCMT Associates, PLLC 211 Stone Drive, Pilot Mountain, NC 27041 Telephone: (336) 399-6277 CUSTOM BUILT STRUCTURES, INC.

CONTRACTOR OF THE PARTY OF THE	
DRAWN BY:	POJECT NO:
BKS	23-509
DATE:	SHEET NO:
2023.10.16	S17A