

ENCLOSED GABLE END BUILDING

12'-0" TO 30'-0" WIDE X 16'-0" EAVE HEIGHT WITH BOX FRAME / (UP TO) 155 MPH (NON-WIND BORNE DEBRIS AREA) - 35 P.S.F. SNOW LOAD

FOR:

NC CARPORTS & GARAGE

116 EAST MARKET STREET

ELKIN, NORTH CAROLINA

TELE: 336-368-0668

ISSUE DATE: 01.23.24

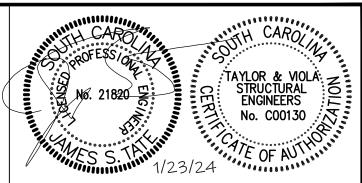




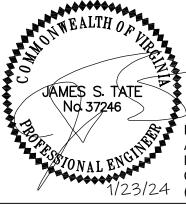




DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2018 NC BUILDING CODE (2015 IBC)



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



DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2018 VA CONSTRUCTION CODE (2018 IBC)



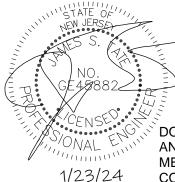
DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2012 IBC



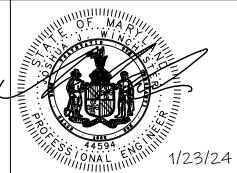
DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2018 IBC



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



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 NC CARPORTS & GARAGES

116 EAST MARKET STREET ELKIN, NORTH CAROLINA 28621 TELE: 336-368-0668 DRAWN BY: BKS

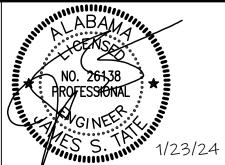
PROJECT NO: 22-512

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SHEET NO:



DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2018 IBC



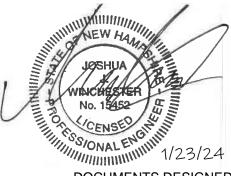
DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2021 BUILDING CODE OF ALABAMA (2021 IBC)



DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2018 IBC



DOCUMENTS DESIGNED AND DRAWN TO MEET THE NINETH **EDITION OF THE MA** STATE BUILIDING CODE



DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2018 IBC



1/23/24

DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2017 IBC



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



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CARPORTS N C GARAGES

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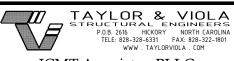
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116 EAST MARKET STREET ELKIN, NORTH CAROLINA 28621 TELE: 336-368-0668 DRAWN BY: BKS PROJECT NO: 22-512

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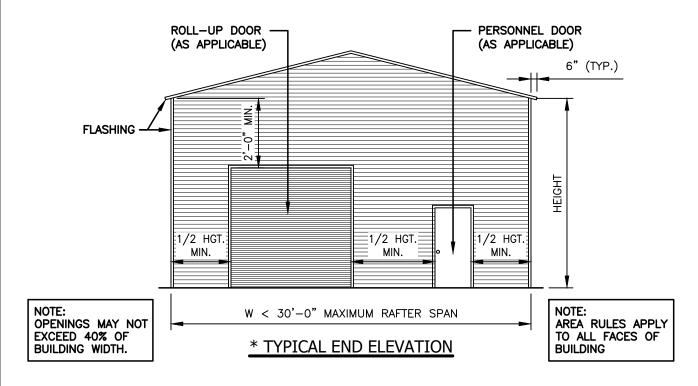
DESIGN LOADS:				
IMPORTANCE FACTORS	SNOW (1	1w) 1.00 1s) 1.00 1e) 1.00		
DEAD LOADS	ROOF ROOF COLLATERAL	13 P.S.F. P.S.F.		
LIVE LOADS	ROOF			
GROUND SNOW LOAD:		35 P.S.F. * DRIFT LOAD HAS NOT BEEN CALCULATED		
WIND LOAD:	BASIC WIND SPEED EXPOSURE CATAGORY	V 155 M.P.H. (ASCE 7–16)		
SEISMIC DESIGN CATAGORY		A B X C D		
PROVIDE THE FOLLOWING SE	ISMIC DESIGN PARAMET	ETERS:		
OCCUPANCY CATEGORY	+NOT FOR SLE	EEPING QUARTERS		
SPECTRAL RESPONSE ACCEL	ERATION Ss			
SITE CLASSIFICATION	. FIELD TES	ST . PRESUMPTIVE . HISTORICAL DATA		
BASIC STRUCTURAL SYSTEM	(CHECK ONE)			
. BEARING WALL . DUAL W/ SPECTRAL MOMENT FRAME X BUILDING FRAME . DUAL W/ INTERMEDIATE R/C OR SPECIAL STEEL NOMENT FRAME . INVERTED PENDULUM				
ANALYSIS PROCEDURE	SIMPLIFIEDX	EQUIVALANT LATERAL FORCE MODAL		
LATERAL DESIGN CONTROL?	EARTHQUAKE	EX WND		
SOIL BEARING CAPACITIES: PRESUMPTIVE BEARING CAPA	ACITIES:	<u>2,000</u> P.S.F.		

GENERAL NOTES:

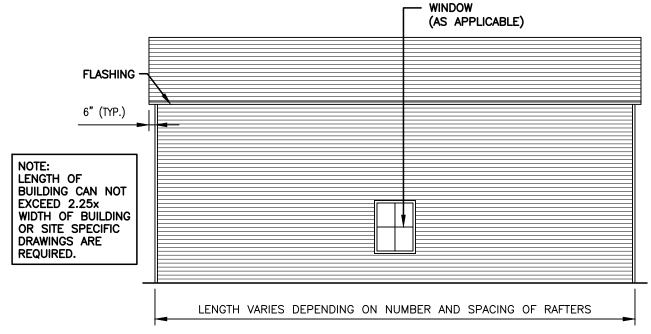
- 1. MAX FRAME SPACING SHALL BE 60"oc UNLESS NOTED OTHERWISE.
- 2. MAX. END-WALL COLUMN SPACING SHALL BE 60"oc UNLESS NOTED OTHERWISE.
- 3. TUBE MATERIAL SHALL BE 2-1/2" x 2-1/2" x 14gg. 50 K.S.I. MIN. UNLESS NOTED OTHERWISE.
- 4. ALL FASTENERS SHALL BE (2) #12 SELF TAPPING AT 9"o.c. UNLESS NOTED OTHERWISE.
- 5. 2,000 P.S.F. ASSUMED BEARING CAPACITY UNLESS NOTED OTHERWISE.
- 6. THESE DRAWINGS ARE NOT APPLICABLE TO PARTIALLY OPEN / ENCLOSED OR OPEN BUILDINGS.
- IF FRAME SPACING IS AT 48"oc (SIDE & END WALLS) GROUND SNOW LOAD CAN INCREASE TO 43.5 P.S.F. (EXCLUDING DRIFT).



BOX EVE FRAME RAFTER STRUCTURE OPENING CRITERIA



* IF DIMENSIONS SHOWN ARE EXCEEDED, SITE SPECIFIC DRAWINGS ARE REQUIRED.



* TYPICAL SIDE ELEVATION



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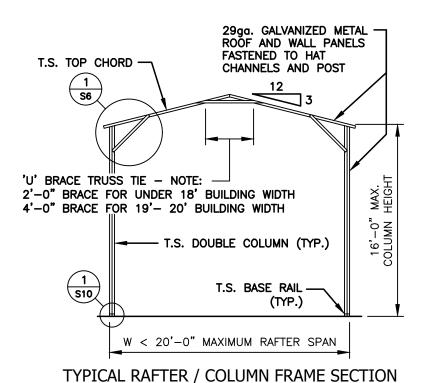
CARPORTS N C GARAGES

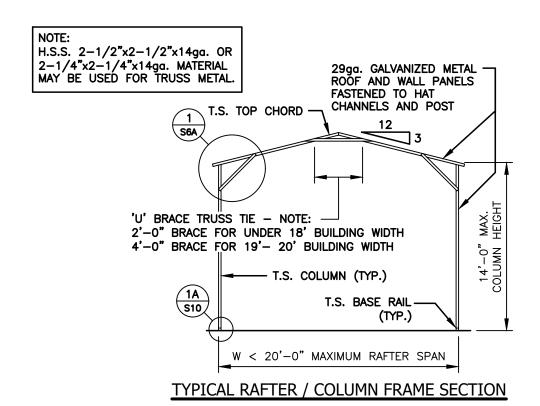
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PROJECT NO: DRAWN BY: BKS

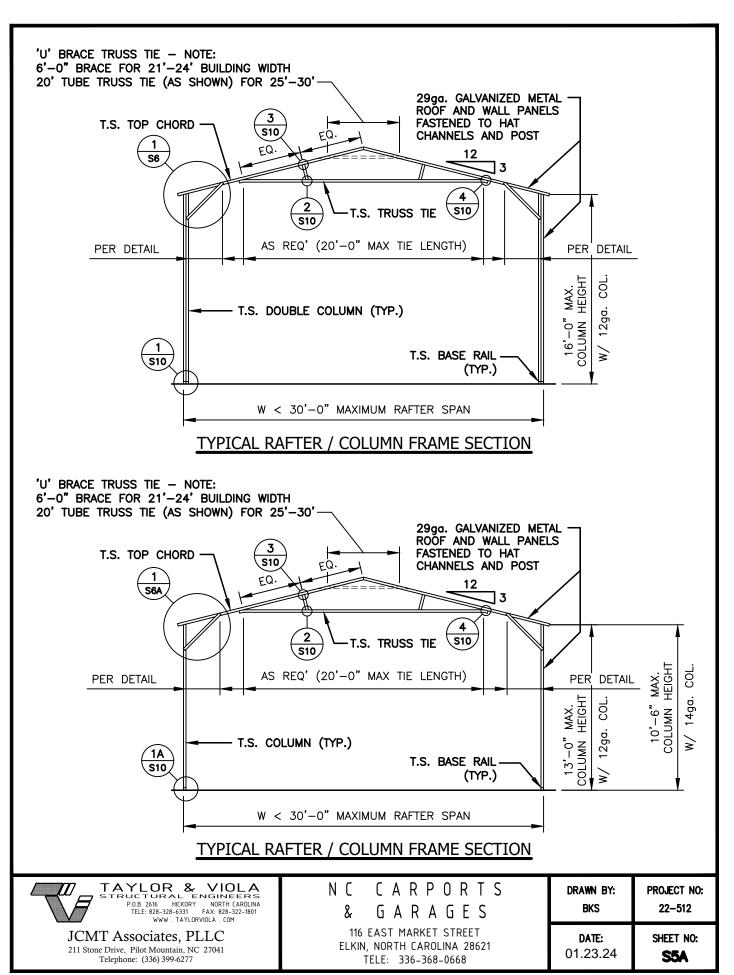
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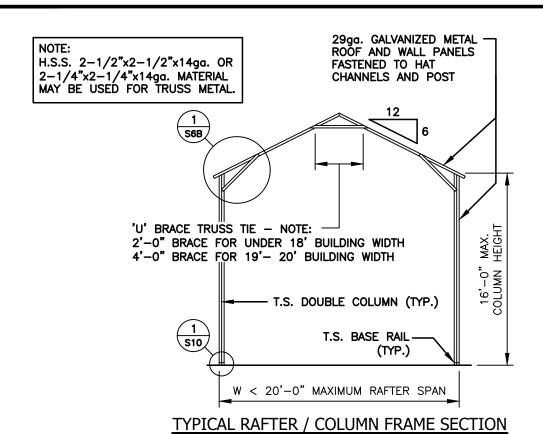
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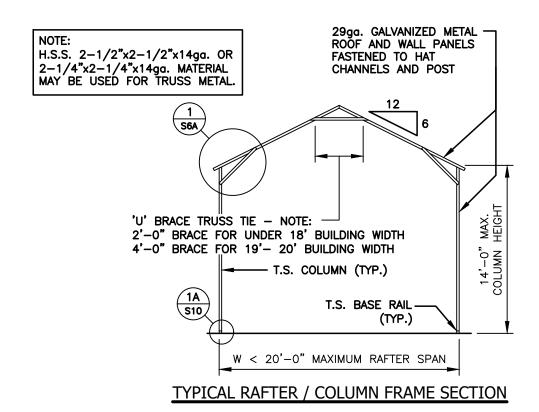




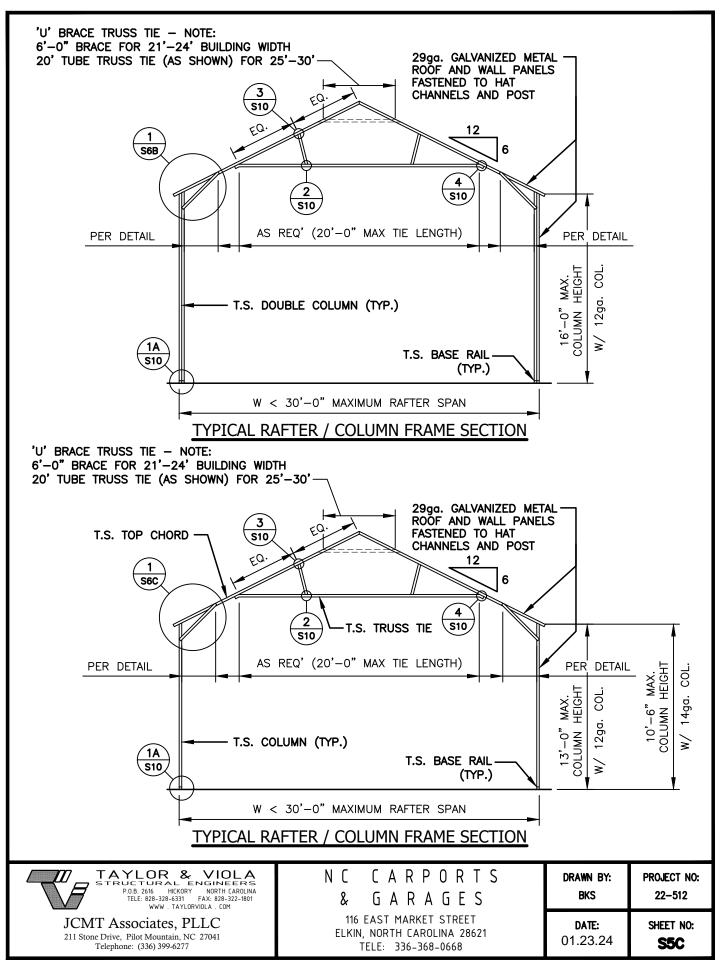


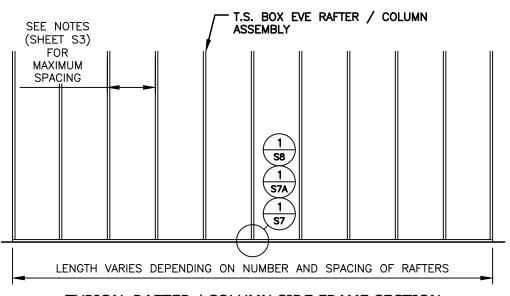












TYPICAL RAFTER / COLUMN SIDE FRAME SECTION

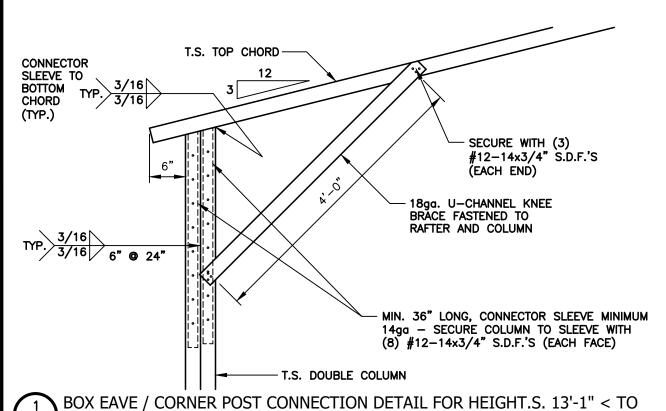


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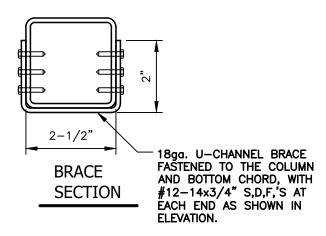
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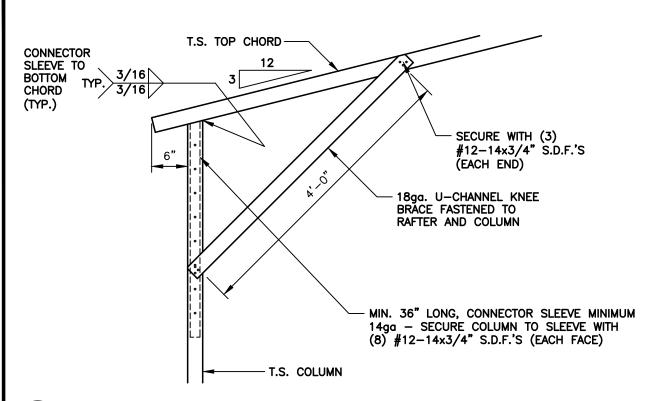
SHEET NO:



S6 / sc4.6:-0# = 1'-0"



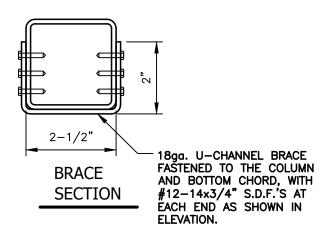




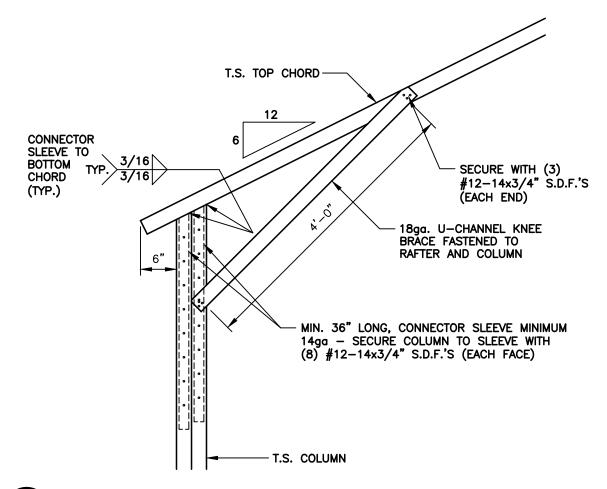
BOX EAVE / CORNER POST CONNECTION DETAIL FOR HEIGHT.S. < 13'-0"

S6A

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



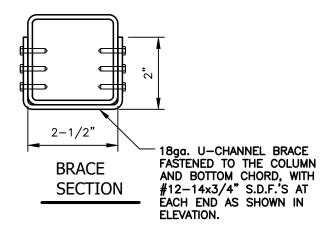




BOX EAVE / CORNER POST CONNECTION DETAIL FOR HEIGHT.S. 13'-1" < TO

S6B

SCAL65!-304" = 1'-0"



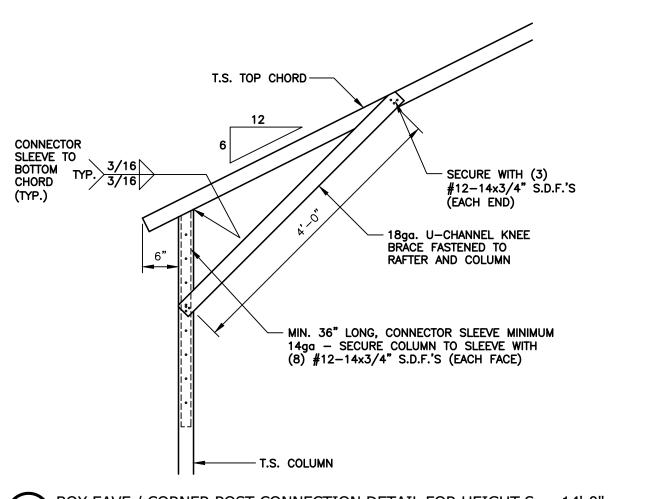


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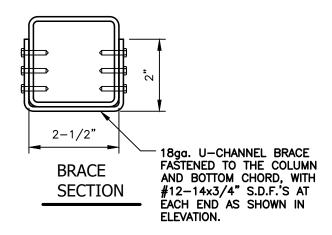
SHEET NO: **S6B**



BOX EAVE / CORNER POST CONNECTION DETAIL FOR HEIGHT.S. < 14'-0"

S6C

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



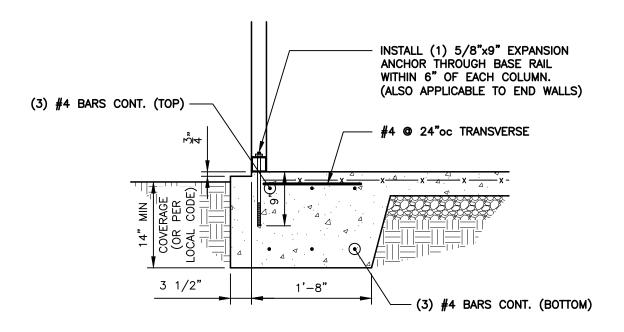


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SHEET NO: S6C





GENERAL NOTES:

ALL CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 2,000 P.S.F.

CONCRETE:

CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3,000 P.S.I. AT 28 DAYS.

COVER OVER REINFORCING STEEL:

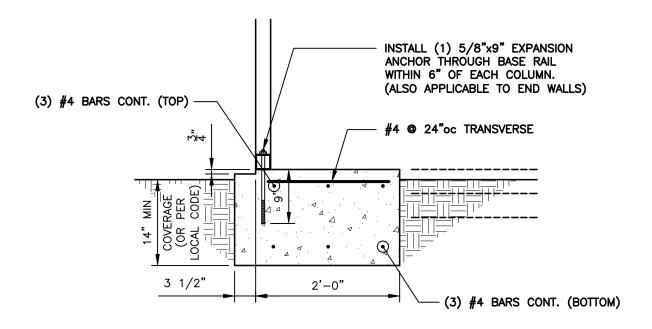
FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318: 3" IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH AND WEATHER AND 1-1/2" ELSEWHERE.

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.

- 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.
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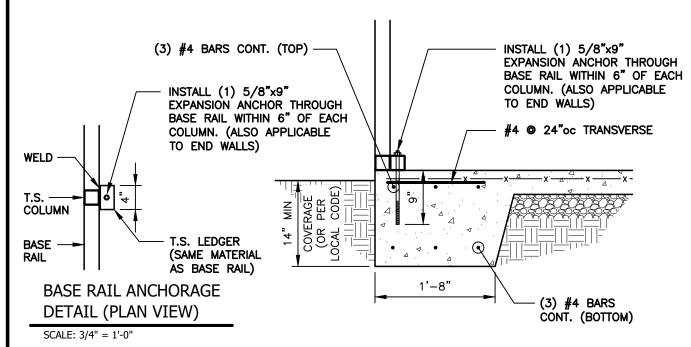
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BASE RAIL ANCHORAGE DETAIL

S7B SCALE: 3/4" = 1'-0"

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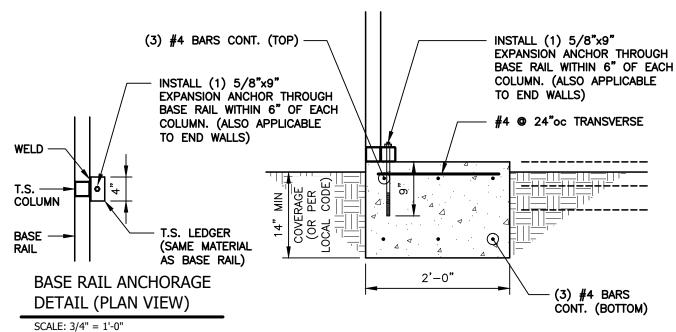
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BASE RAIL ANCHORAGE DETAIL

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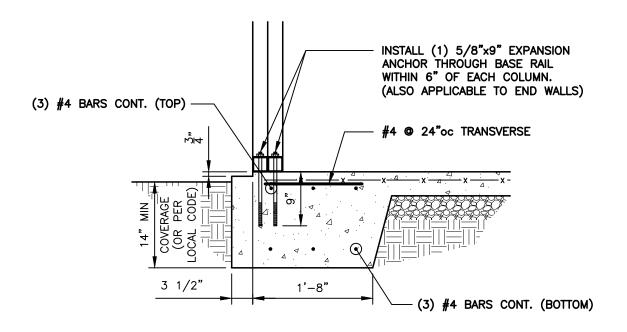
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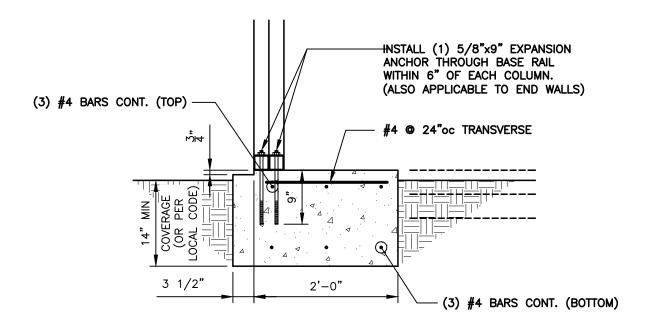
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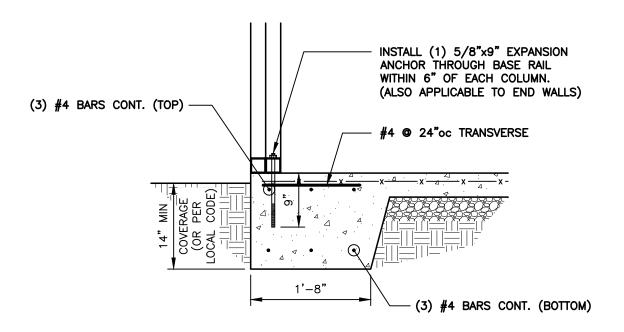
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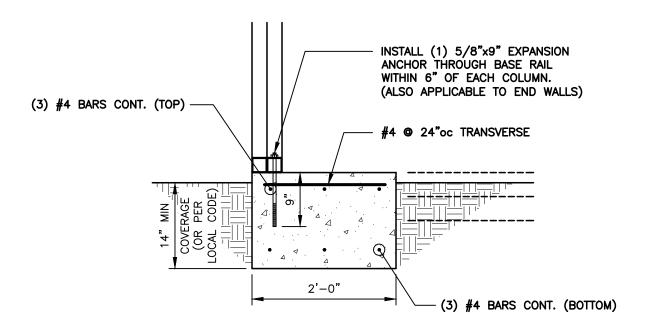
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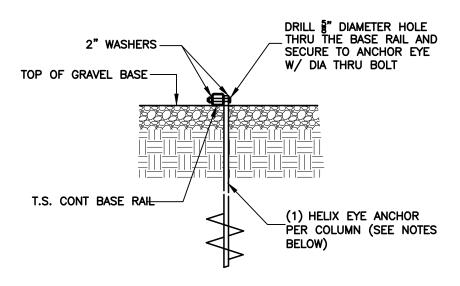
REINFORCING STEEL:

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.

- 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.



SOIL NAIL BASE RAIL ANCHORAGE



1 58

BASE RAIL ANCHORAGE DETAIL

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

HELIX EMBEDMENT INFORMATION:

FOR VERY DENSE OR CEMETED SANDS, COARSE GRAVEL, COBBLES, CALICHE, PRELOADED SILT.S. 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 SILT.S., 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 SILT.S., 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 SILT.S. 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.



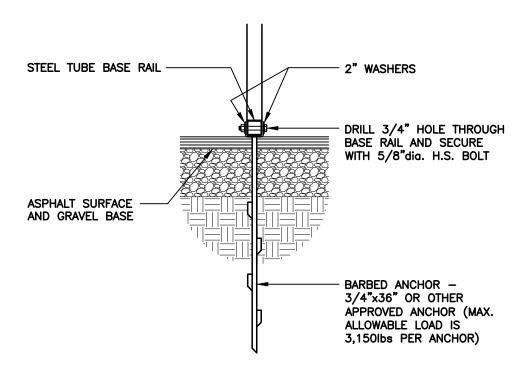
JCMT Associates, PLLC 211 Stone Drive, Pilot Mountain, NC 27041 Telephone: (336) 399-6277 NC CARPORTS & GARAGES

116 EAST MARKET STREET ELKIN, NORTH CAROLINA 28621 TELE: 336-368-0668 DRAWN BY: BKS

PROJECT NO: 22-512

DATE: SHEET NO: 01.23.24

ASPHALT ANCHOR BASE RAIL ANCHORAGE



ASPHALT / BASE RAIL ANCHORAGE DETAIL

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



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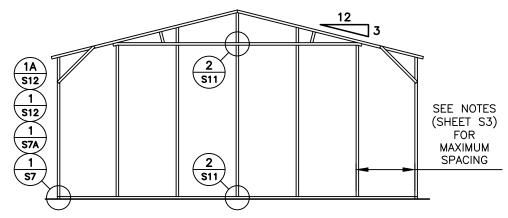
116 EAST MARKET STREET ELKIN, NORTH CAROLINA 28621 TELE: 336-368-0668 DRAWN BY: BKS

PROJECT NO: 22-512

DATE: 01.23.24

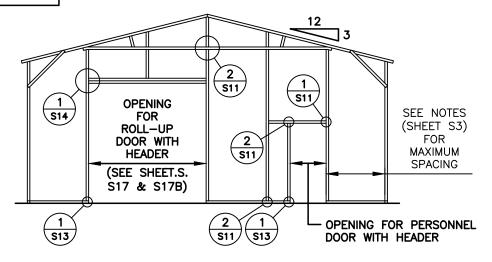
SHEET NO:

BOX EVE RAFTER END WALL OPENINGS



TYPICAL BOX EVE RAFTER / END WALL COLUMN FRAME SECTION

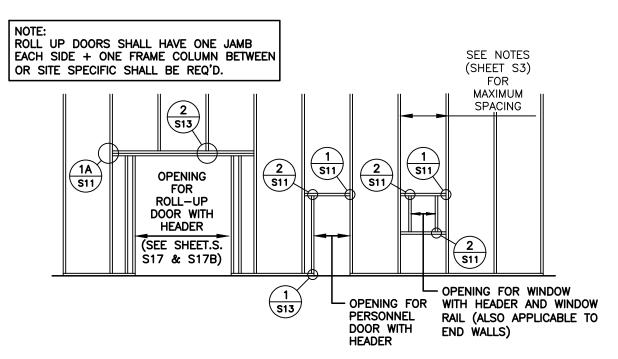
NOTE:
ROLL UP DOORS SHALL
HAVE ONE JAMB EACH
SIDE + ONE FRAME
COLUMN BETWEEN OR SITE
SPECIFIC SHALL BE REQ'D.



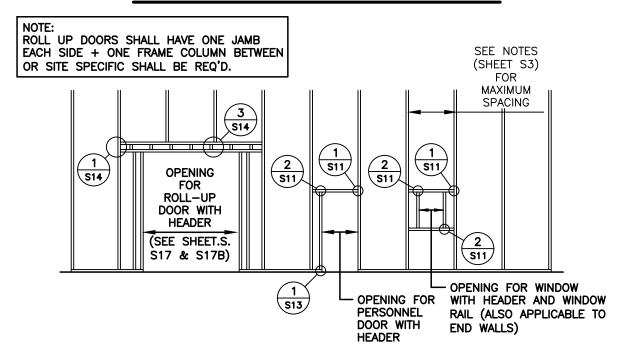
TYPICAL BOX EVE RAFTER END WALL OPENINGS FRAMING SECTION



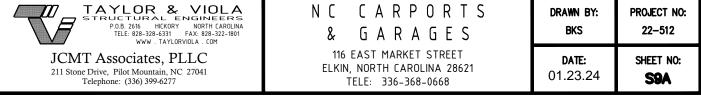
BOX EVE RAFTER END WALL AND SIDE WALL OPENINGS



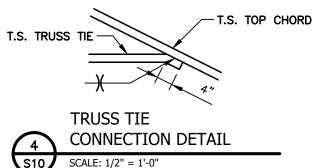
TYPICAL END WALL OPENING FRAMING SECTION



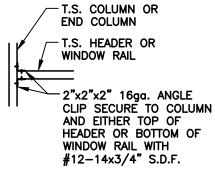
TYPICAL SIDE WALL OPENING FRAMING SECTION



CONNECTION DETAILS MIN. 12"x14ga. CONNECTOR SLEEVE SECURE WITH (4) MIN. 12"x14ga. CONNECTOR SLEEVE SECURE WITH (4) T.S. DOUBLE -**COLUMN** #12-14x3/4" S.D.F. (EA. FACE) #12-14x3/4" S.D.F. (EA. FACE) T.S. COLUMN)(3/12 3/12 CONNECTOR CONNECTOR 3/16 TYP. SLEEVE TO BASE RAIL |3/16 TYP. SLEEVE TO BASE RAIL 3/16 3/16 (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" 3/16 TYP. T.S. TOP CHORD T.S. INTERMEDIATE CHORD T.S. INTERMEDIATE **CHORD** T.S. BOTTOM CHORD INTERMEDIATE CHORD TO BOTTOM CHORD INTERMEDIATE CHORD TO TOP CONNECTION DETAIL CHORD CONNECTION DETAIL SCALE: 1/2" = 1'-0" SCALE: 1/2" = 1'-0" **S10** T.S. TOP CHORD







COLUMN OR WINDOW RAIL / WALL GIRT TO POST CONNECTION DETAIL

1 S11

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

T.S. COLUMN OR
END COLUMN

T.S. DOUBLE HEADER

3/12

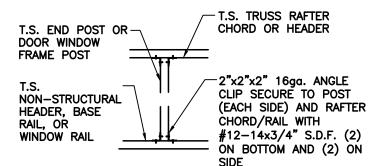
3/12

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

1A S11

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



DOOR OR WINDOW HEADER RAIL TO POST CONNECTION



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

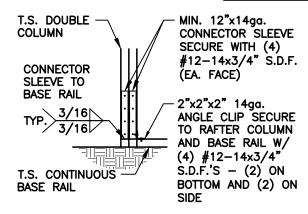
DETAIL

TAYLOR & VIOLA
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TELE: 828-328-6331 FAX: 828-322-1801
WWW . TAYLORVIOLA . COM

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116 EAST MARKET STREET ELKIN, NORTH CAROLINA 28621 TELE: 336-368-0668 DRAWN BY: PROJECT NO: 22–512

DATE: SHEET NO: \$1.23.24



MIN. 12"x14ga. CONNECTOR SLEEVE T.S. DOUBLE -COLUMN SECURE WITH (4) #12-14x3/4" S.D.F. CONNECTOR (EA. FACE) SLEEVE TO BASE RAIL 2"x2"x2" 14ga. ANGLE CLIP SECURE TYP. $\frac{3/16}{3/16}$ TO RAFTER COLUMN AND BASE RAIL W/ (4) #12-14x3/4" S.D.F.'S - (2) ON T.S. CONTINUOUS BOTTOM AND (2) ON BASE RAIL SIDE

END COLUMN / BASE RAIL CONNECTION DETAIL

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

S12

END COLUMN / BASE RAIL CONNECTION DETAIL

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

1A

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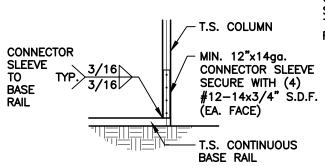
CARPORTS N C GARAGES

116 EAST MARKET STREET ELKIN, NORTH CAROLINA 28621 TELE: 336-368-0668

DRAWN BY: PROJECT NO: 22-512 BKS DATE: SHEET NO:

S12

01.23.24



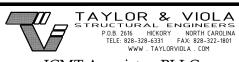
COLUMN / BASE RAIL **CONNECTION DETAIL** SCALE: 1/2" = 1'-0"

S13

CONNECTOR MIN. 12"x14ga. CONNECTOR SLEEVE 3/16 SLEEVE TO BASE TYP. 3/16 SECURE WITH (4) #12-14x3/4" S.D.F. (EA. FACE) T.S. COLUMN 3/12 T.S. DOUBLE HEADER

> COLUMN / DOUBLE HEADER **CONNECTION DETAIL S13**

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

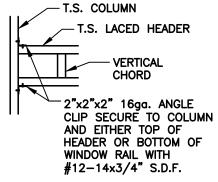


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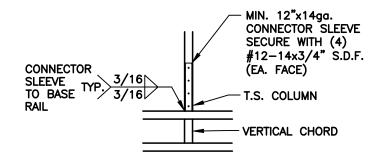
DRAWN BY: PROJECT NO: BKS 22-512 DATE: SHEET NO: 01.23.24 **S13**



COLUMN / LACED HEADER CONNECTION DETAIL

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

S14



COLUMN / LACED HEADER
CONNECTION DETAIL

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

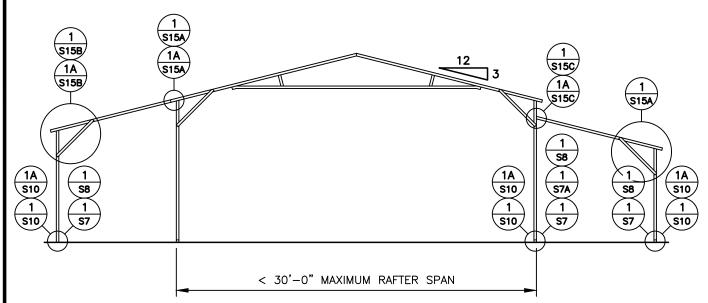


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116 EAST MARKET STREET ELKIN, NORTH CAROLINA 28621 TELE: 336-368-0668

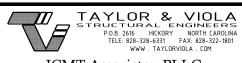
DRAWN BY:	PROJECT NO:
BKS	22-512
DATE: 01.23.24	SHEET NO: S14

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 12ga. COLUMN
16'-0" MAX. LEAN-TO HEIGHT WITH DOUBLE 12ga. COLUMN



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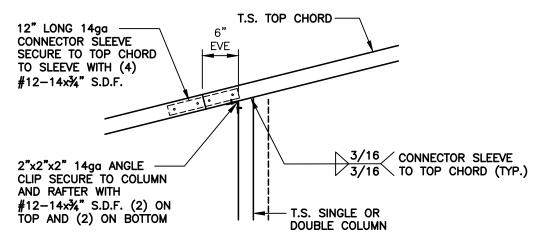
NC CARPORTS GARAGES

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S15

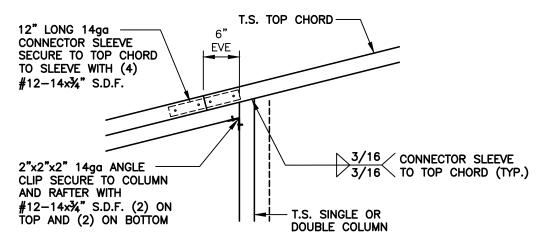
LEAN-TO CONNECTION DETAILS



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"



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

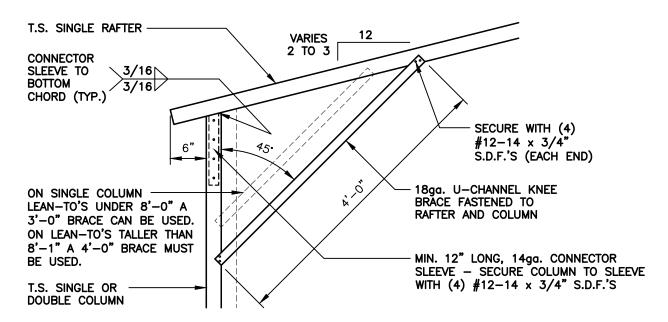
STRU	YLOR & VIOLA JCTURAL ENGINEERS P.O.B. 2616 HICKORY NORTH CAROLINA TELE: 828-328-6331 FAX: 828-322-1801 WWW . TAYLORVIOLA . COM
JCMT As	sociates, PLLC
211 Stone Drive,	Pilot Mountain, NC 27041

Telephone: (336) 399-6277

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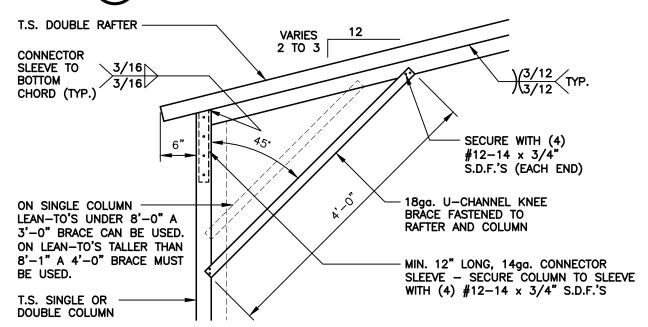
DRAWN BY:	PROJECT NO:
BKS	22-512
DATE: 01.23.24	SHEET NO: S15A

LEAN-TO CONNECTION DETAILS - SINGLE COLUMN



LEAN-TO SINGLE RAFTER / SINGLE COLUMN CONNECTION DETAIL

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



LEAN-TO DOUBLE RAFTER / SINGLE COLUMN CONNECTION DETAIL

S15B

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



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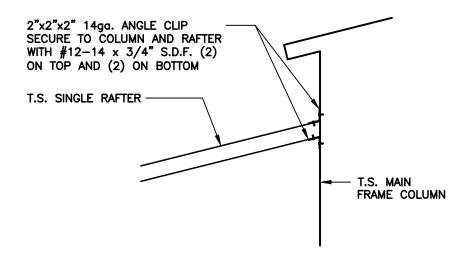
CARPORTS N C GARAGES

116 EAST MARKET STREET ELKIN, NORTH CAROLINA 28621 TELE: 336-368-0668

DRAWN BY: BKS	PROJECT NO: 22-512			
DATE:	SHEET NO:			
01.23.24	S15B			

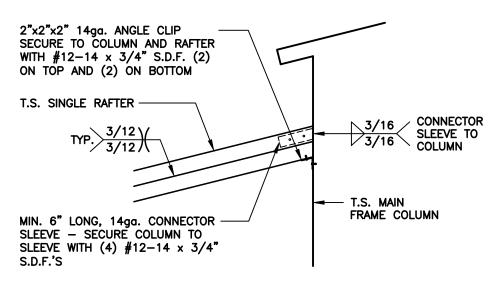
S15B

LEAN-TO / MAIN FRAME CONNECTION DETAILS



LEAN-TO SINGLE RAFTER / BUILDING FRAME CONNECTION DETAIL

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



LEAN-TO DOUBLE RAFTER / BUILDING FRAME CONNECTION DETAIL



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

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	WWW . TAYLORVIOLA . COM
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CARPORTS N C GARAGES 116 EAST MARKET STREET

ELKIN, NORTH CAROLINA 28621 TELE: 336-368-0668

DRAWN BY: BKS

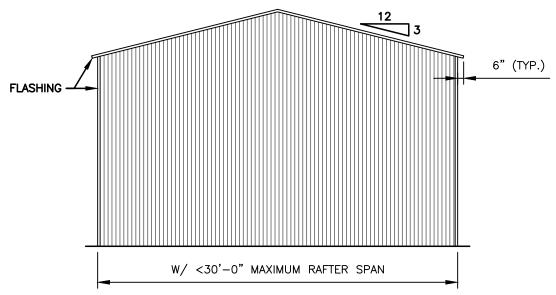
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PROJECT NO: 22-512

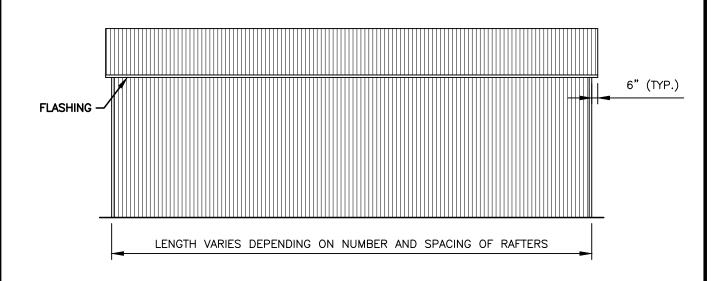
01.23.24

SHEET NO: **S15C**

VERTICAL ROOF / SIDING OPTION



TYPICAL END ELEVATION - VERTICAL ROOF / SIDING



TYPICAL SIDE ELEVATION - VERTICAL ROOF / SIDING



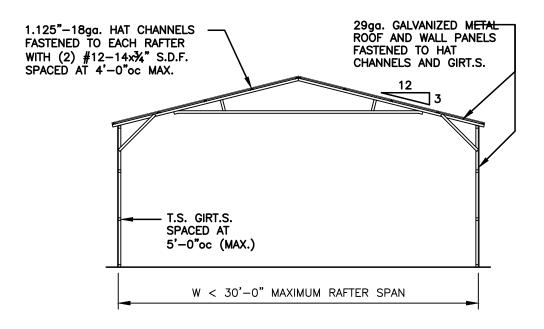
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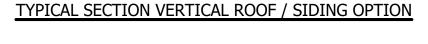
116 EAST MARKET STREET ELKIN, NORTH CAROLINA 28621 TELE: 336-368-0668 DRAWN BY: BKS PROJECT NO: 22-512

DATE: 01.23.24

SHEET NO:

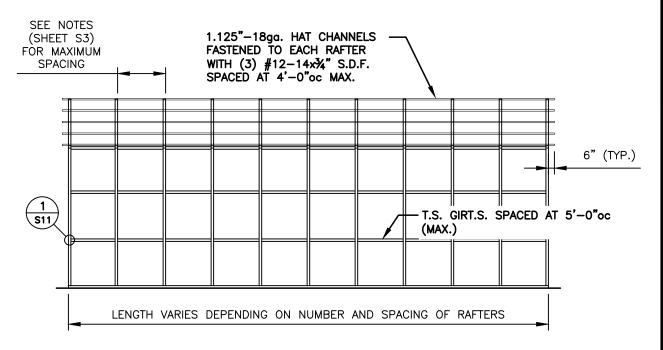
VERTICAL ROOF / SIDING OPTION



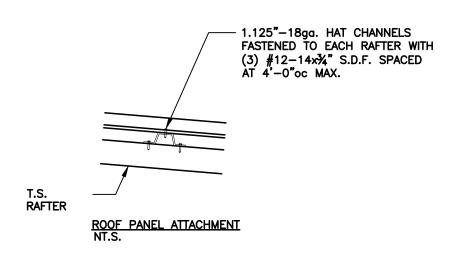




VERTICAL ROOF / SIDING OPTION

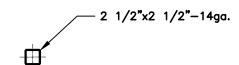


TYPICAL SIDE FRAMING SECTION VERTICAL ROOF / SIDING OPTION

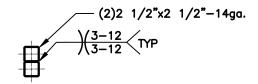




SIDE WALL HEADER OPTIONS



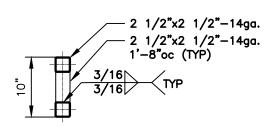
HEADER DETAIL FOR DOOR OPENINGS < 4'-0" NT.S.



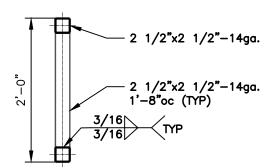
HEADER DETAIL FOR DOOR

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

NT.S.



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



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

GENERAL NOTE:

PROVIDE DOUBLE WYTHE HEADER ON DOUBLE COLUMNS AND LACED COLUMNS

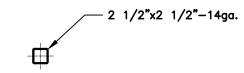


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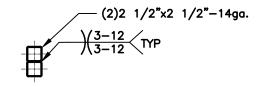
116 EAST MARKET STREET ELKIN, NORTH CAROLINA 28621 TELE: 336-368-0668

DRAWN BY: BKS	PROJECT NO: 22-512
DATE: 01.23.24	SHEET NO:

END WALL HEADER OPTIONS



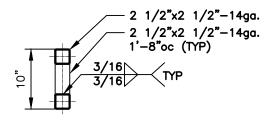
HEADER DETAIL FOR DOOR OPENINGS < 7'-0" NT.S.



HEADER DETAIL FOR DOOR

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

NT.S.



LACED HEADER DETAIL FOR DOOR OPENINGS 16'-1" < TO < 20'-0" NT.S.

GENERAL NOTE:

PROVIDE DOUBLE WYTHE HEADER ON DOUBLE COLUMNS AND LACED COLUMNS

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	Associates, PLLC ive, Pilot Mountain, NC 27041

Telephone: (336) 399-6277

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116 EAST MARKET STREET
ELKIN, NORTH CAROLINA 28621
TELE: 336-368-0668

DRAWN BY:	PROJECT NO:
BKS	22-512
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