

## 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:

N.C. CARPORTS & GARAGES
116 EAST MARKET STREET
ELKIN, NORTH CAROLINA 28621

ISSUE DATE: OCTOBER 16, 2023





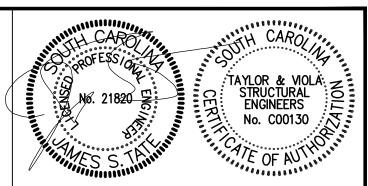


Mandy Veller

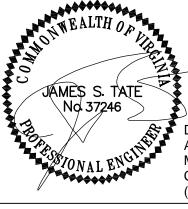
NOTE: THESE DRAWINGS ARE VALID FOR (1) CALENDAR YEAR AFTER THE ISSUE DATE LISTED ON THIS SHEET.



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



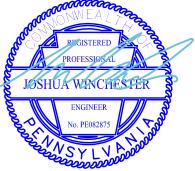
DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2021 SC BUILDING CODE (2021 BC)



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



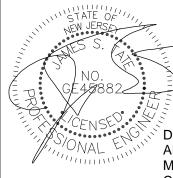
DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2012 IBC



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

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> 116 EAST MARKET STREET ELKIN, NORTH CAROLINA 28621

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| DATE:            | SHEET NO:          |
| 2023.10.16       | S1                 |



DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2018 IBC



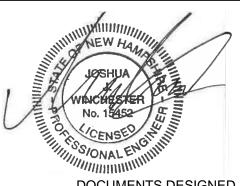
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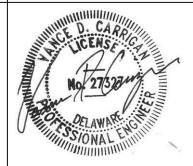
DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2018 IBC



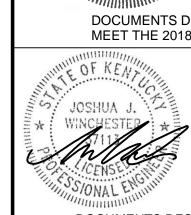
DOCUMENTS DESIGNED AND DRAWN TO MEET THE NINETH **EDITION OF THE MA** STATE BUILIDING CODE



DOCUMENTS DESIGNED AND DRAWN TO MEET THE 2018 IBC



**DOCUMENTS DESIGNED AND** DRAWN TO MEET THE 2015 IBC



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

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2023.10.16

SHEET NO: **S1** 

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SHEET NO:

| DESIGN LOADS:  |                                    |  |
|--|------------------------------------|--|
| IMPORTANCE FACTORS   | SNOW (1                            | w  1.00<br> s  1.00<br> e  1.00                |
| DEAD LOADS   | ROOF COLLATERAL                    |  |
| LIVE LOADS   | ROOF                               |  |
| GROUND SNOW LOAD:  |                                    | 30 P.S.F. * DRIFT LOAD HAS NOT BEEN CALCULATED |
| WIND LOAD:   | BASIC WIND SPEED EXPOSURE CATAGORY | Y 145 M.P.H. (ASCE 7–16)                       |
| SEISMIC DESIGN CATAGORY  |                                    | A B X C D                                      |
| PROVIDE THE FOLLOWING SE   | EISMIC DESIGN PARAME               | TERS:  |
| OCCUPANCY CATEGORY II *NOT FOR SLEEPING QUARTERS   |                                    |  |
| SPECTRAL RESPONSE ACCE   | LERATION Ss                        | <u>20.5</u> <b>%g S1</b> <u>8.8</u> <b>%g</b>  |
| SITE CLASSIFICATIOND FIELD TEST 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       .     MOMENT FRAME     .     INVERTED PENDULUM |                                    |  |
| ANALYSIS PROCEDURE SIMPLIFIEDX EQUIVALANT LATERAL FORCE MODAL  |                                    |  |
| LATERAL DESIGN CONTROL?  | EARTHQUAKE                         | X WIND   |
| SOIL BEARING CAPACITIES:<br>PRESUMPTIVE BEARING CAP  | ACITIES:                           | 2,000 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  $2-1/2" \times 2-1/2" \times 14ga$ . 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 36 P.S.F. (EXCLUDING DRIFT).



Telephone: (336) 399-6277

N.C. CARPORT

Mangly VGHATRAGES

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2023.10.16 \$3

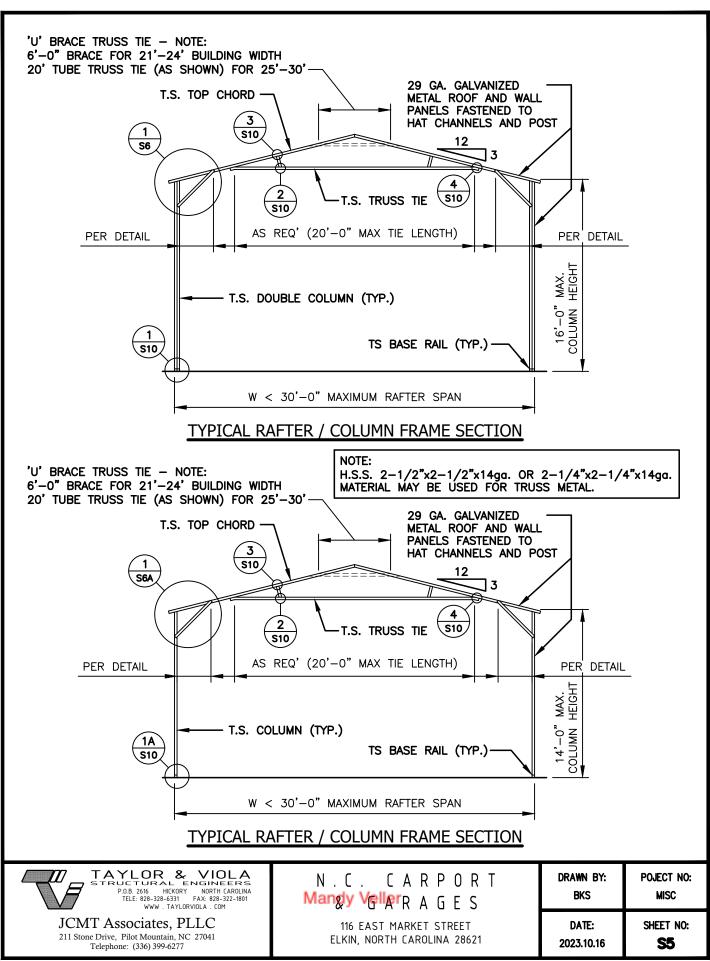
# **BOX EVE FRAME RAFTER STURCTURE** ROLL-UP DOOR PERSONNEL DOOR (AS APPLICABLE) (AS APPLICABLE) 6" (TYP.) FLASHING -W < 30'-0" MAXIMUM RAFTER SPAN TYPICAL END ELEVATION WINDOW (AS APPLICABLE) 6" (TYP.) FLASHING -LENGTH VARIES DEPENDING ON NUMBER AND SPACING OF RAFTERS TYPICAL SIDE ELEVATION TAYLOR & VIOLA STRUCTURAL ENGINEERS P.O.B. 2616 HICKORY NORTH CAROLINA TELE: 828-328-3311 FAX: 828-322-3801 WWW . TAYLORVIOLA . COM N.C. CARPORT DRAWN BY: POJECT NO: BKS MISC Mangly VellerR A G E S JCMT Associates, PLLC 116 EAST MARKET STREET DATE: SHEET NO:

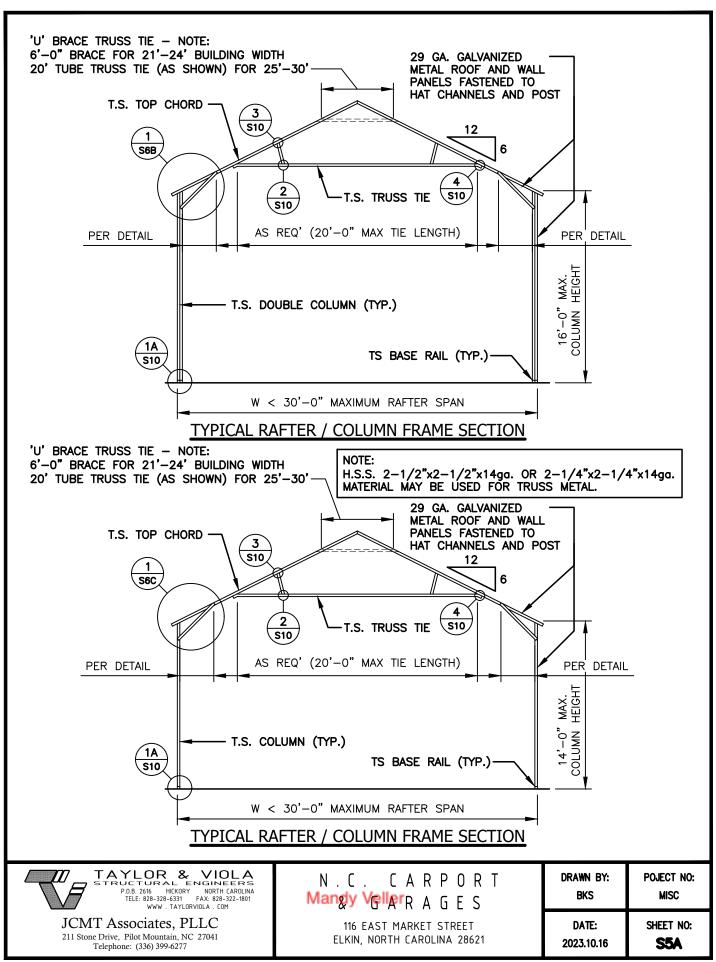
ELKIN, NORTH CAROLINA 28621

2023.10.16

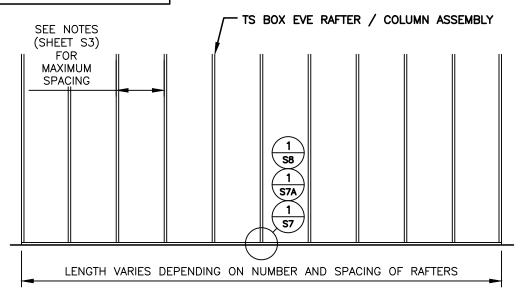
**S4** 

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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

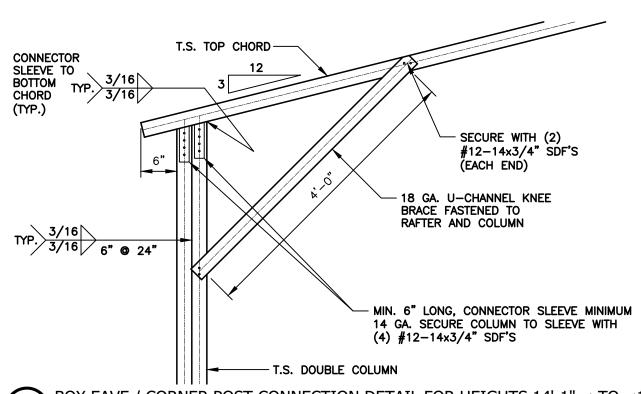


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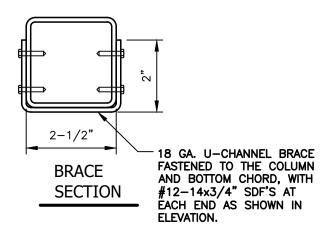
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DATE: 2023.10.16 SHEET NO:

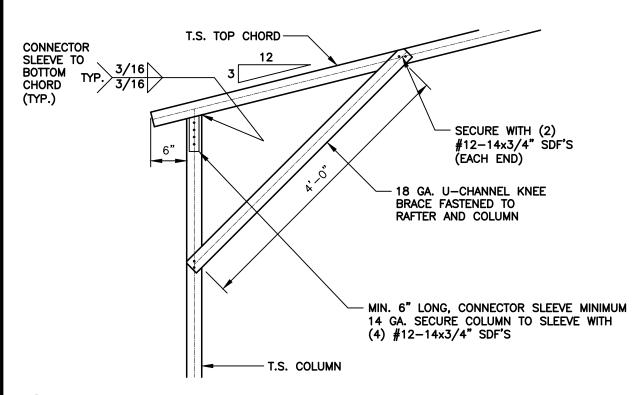


BOX EAVE / CORNER POST CONNECTION DETAIL FOR HEIGHTS 14'-1" < TO <16'-0"

**S6** SCALE: 3/4" = 1'-0"

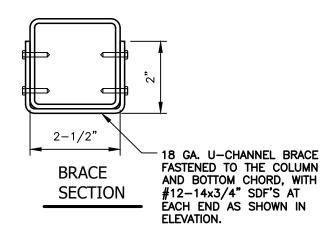




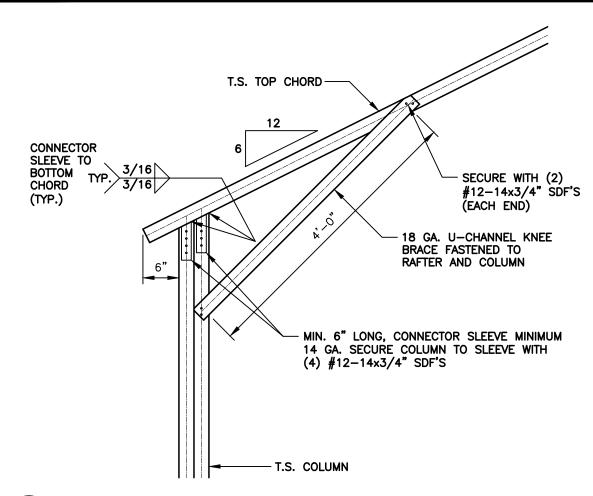


BOX EAVE / CORNER POST CONNECTION DETAIL FOR HEIGHTS < 14'-0"

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

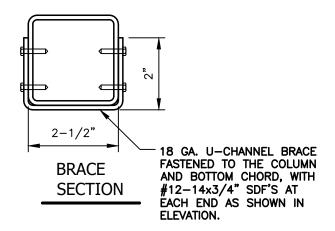






BOX EAVE / CORNER POST CONNECTION DETAIL FOR HEIGHTS 14'-1" < TO <16'-0"

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



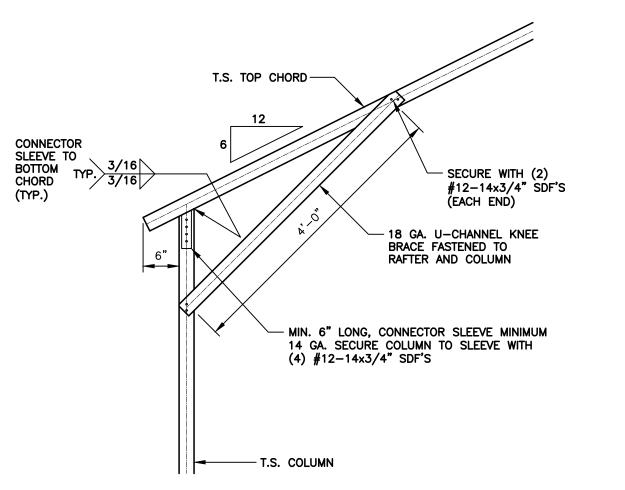


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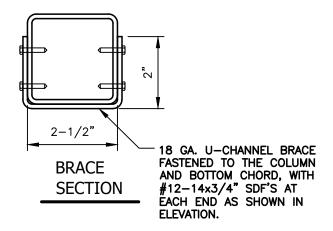
DATE: SHEET NO: 2023.10.16



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

S6C

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





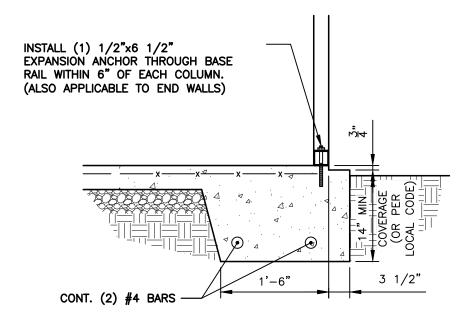
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BKS MISC

DATE: SHEET NO:
2023.10.16 S&C

#### **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:

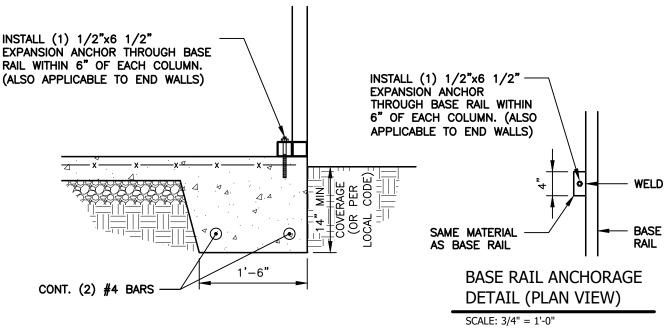
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

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.



#### 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:** 

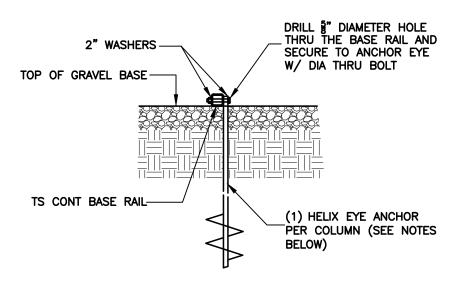
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

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



## 1 S8

#### BASE RAIL ANCHORAGE DETAIL

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

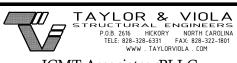
HELIX EMBEDMENT INFORMATION:
FOR VERY DENSE OR CEMETED SANDS, COARSE
GRAVEL, COBBLES, CALICHE, PRELOADED SILTS
AND CLAYS, USE MIN (2) 4" HELICES WITH
MINIMUM 30" EMBEDMENT OR SINGLE 6" HELIX
WITH 50" EMBEDMENT

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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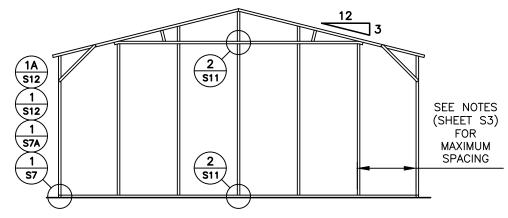
116 EAST MARKET STREET ELKIN, NORTH CAROLINA 28621

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BKS MISC

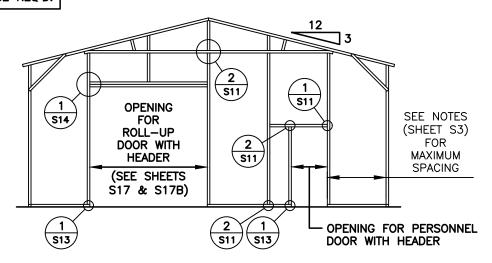
DATE: SHEET NO:
2023.10.16 S8

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



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

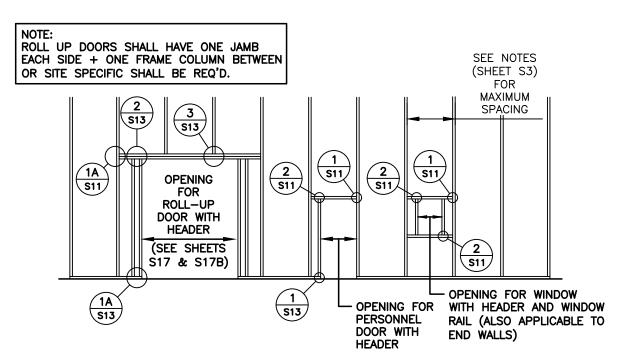
NOTE:
ROLL UP DOORS SHALL
HAVE ONE JAMB EACH
SIDE + ONE FRAME
COLUMN BETWEEN OR SITE
SPECIFIC SHALL BE REQ'D.



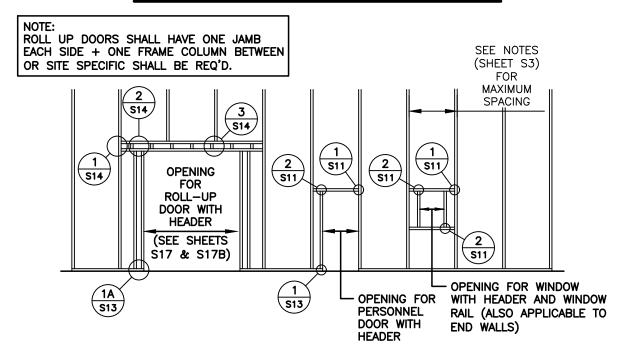
## TYPICAL BOX EVE RAFTER END WALL OPENINGS FRAMING SECTION



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

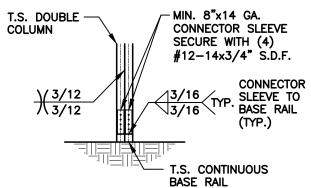


#### TYPICAL END WALL OPENING FRAMING SECTION

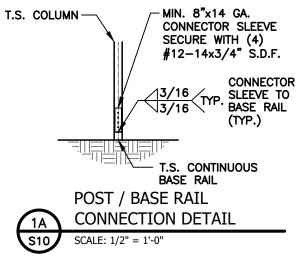


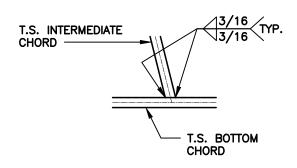
#### TYPICAL SIDE WALL OPENING FRAMING SECTION





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





INTERMEDIATE CHORD TO BOTTOM CHORD

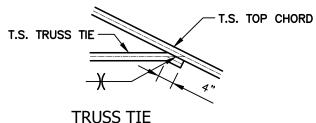
CONNECTION DETAIL

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

T.S. TOP CHORD T.S. INTERMEDIATE CHORD

INTERMEDIATE CHORD TO TOP CHORD CONNECTION DETAIL

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



CONNECTION DETAIL

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

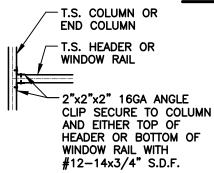
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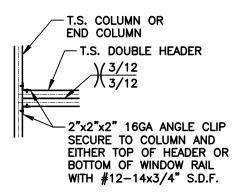
DRAWN BY: POJECT NO: MISC BKS DATE: SHEET NO: 2023.10.16 **S10** 



COLUMN OR WINDOW RAIL / WALL GIRT TO POST CONNECTION DETAIL



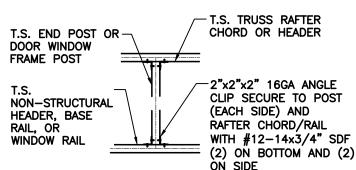
SCALE: 1/2" = 1'-0"



COLUMN / DOUBLE HEADER CONNECTION DETAIL



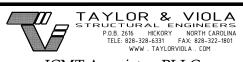
SCALE: 1/2" = 1'-0"



DOOR OR WINDOW HEADER RAIL TO POST CONNECTION DETAIL



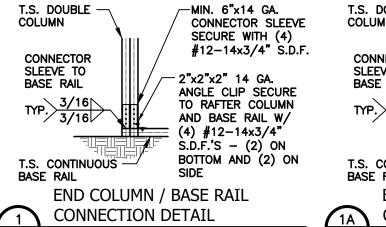
SCALE: 1/2" = 1'-0"



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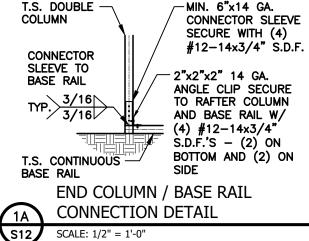
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|---------------------|------------|
| BKS                 | MISC       |
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SCALE: 1/2" = 1'-0"

**S12** 



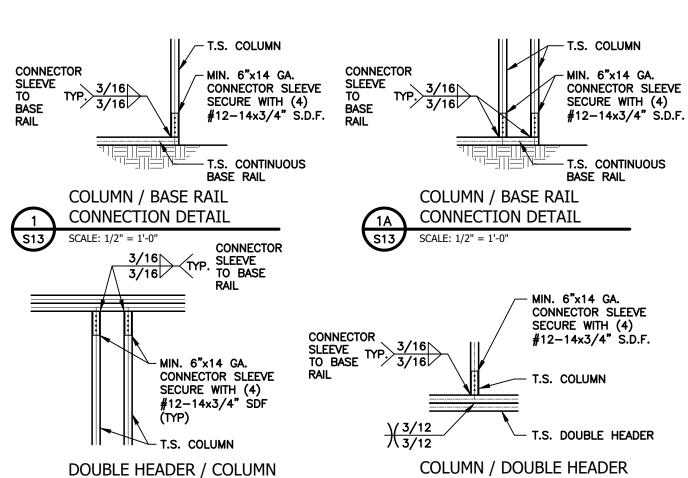
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DOUBLE HEADER / COLUMN
CONNECTION DETAIL
S13 SCALE: 1/2" = 1'-0"

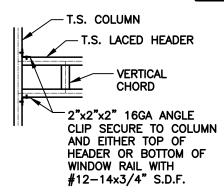
COLUMN / DOUBLE HEADER
CONNECTION DETAIL
SCALE: 1/2" = 1'-0"



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> 116 EAST MARKET STREET ELKIN, NORTH CAROLINA 28621

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| BKS        | MISC       |
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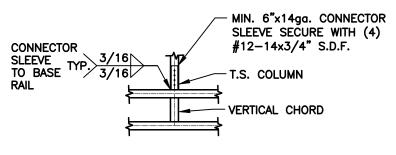
T.S. LACED HEADER VERTICAL CHORD MIN. 6"x14ga. CONNECTOR SLEEVE SECURE WITH (4) #12-14x3/4" S.D.F. T.S. COLUMN

COLUMN / LACED HEADER CONNECTION DETAIL

LACED HEADER / COLUMN CONNECTION DETAIL

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

**S14** SCALE: 1/2" = 1'-0"



COLUMN / LACED HEADER CONNECTION DETAIL

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

3

S14

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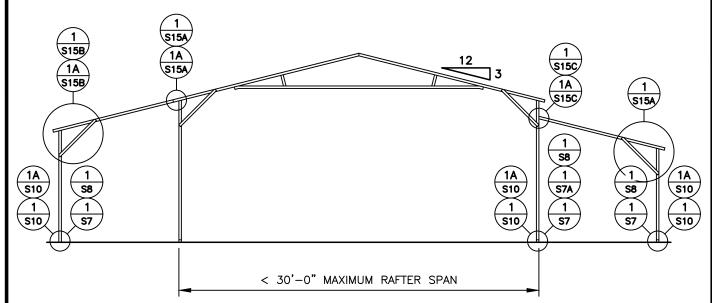
JCMT Associates, PLLC 211 Stone Drive, Pilot Mountain, NC 27041 Telephone: (336) 399-6277

N.C. CARPORT Mangly VellerR A G E S

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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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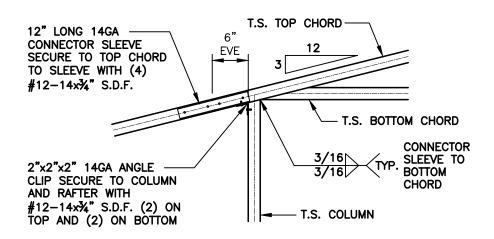
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DATE: SHEET NO:

**S15** 

2023.10.16

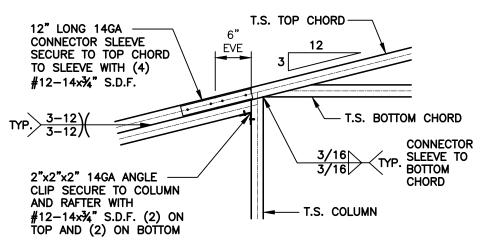
#### **LEAN-TO CONNECTION DETAILS**



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"

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|--|---|---------------------|-------------------|
|  | Mangly Veller AGES                                    | BKS                 | MISC              |
| JCMT Associates, PLLC<br>211 Stone Drive, Pilot Mountain, NC 27041<br>Telephone: (336) 399-6277                                    | 116 EAST MARKET STREET<br>ELKIN, NORTH CAROLINA 28621 | DATE:<br>2023.10.16 | SHEET NO:<br>S15A |

## LEAN-TO CONNECTION DETAILS CONNECTOR SLEEVE TO T.S. ROOF RAFTER **BOTTOM** LEAN-TO ADDITION CHORD SECURE WITH (2) — #12-14x3/4" SDF'S MINIMUM 6"x14 GA. (EACH END) 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" 3/16 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. 00 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" TAYLOR & VIOLA STRUCTURAL ENGINEERS P.O.B. 2616 HICKORY NORTH CAROLINA TELE: 828-328-6331 FAX: 828-322-1801 N.C. CARPORT DRAWN BY: POJECT NO: MISC BKS Mangly VellerR A G E S WWW . TAYLORVIOLA . COM JCMT Associates, PLLC

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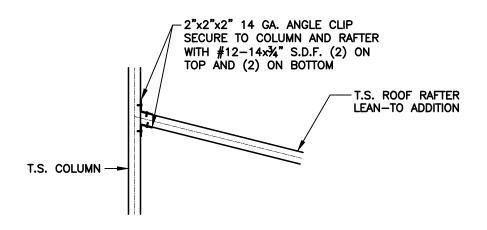
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**S15B** 

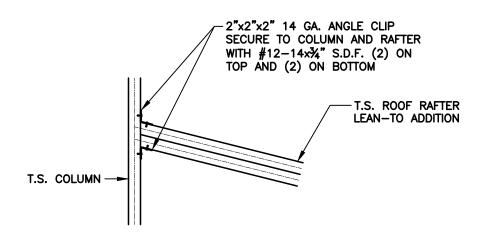
#### **LEAN-TO CONNECTION DETAILS**



## 1 \$15C

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

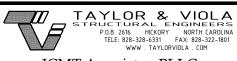
SCALE: 3/4" = 1'-0"





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

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



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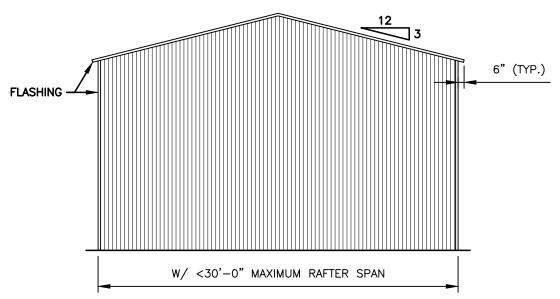
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2023.10.16

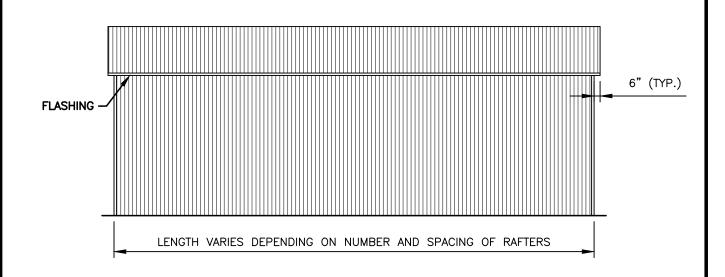
**S15C** 

ELKIN, NORTH CAROLINA 28621

## **VERTICAL ROOF / SIDING OPTION**



## TYPICAL END ELEVATION - VERTICAL ROOF / SIDING



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



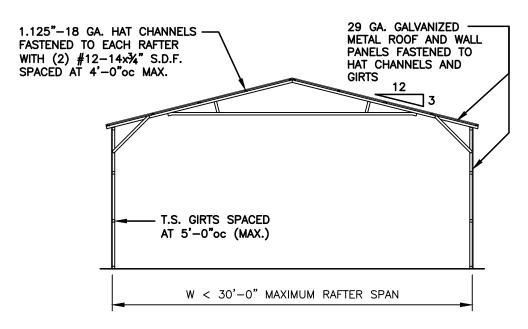
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### **VERTICAL ROOF / SIDING OPTION**



#### 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.



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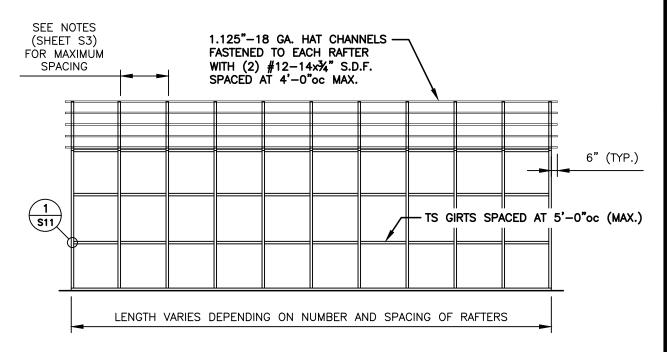
> 116 EAST MARKET STREET ELKIN, NORTH CAROLINA 28621

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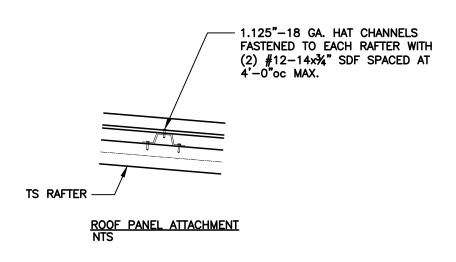
POJECT NO: MISC

DATE: 2023.10.16 SHEET NO: S16A

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

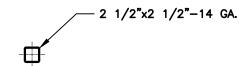


#### TYPICAL SIDE FRAMING SECTION VERTICAL ROOF / SIDING OPTION

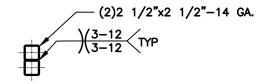




#### **SIDE WALL HEADER OPTIONS**



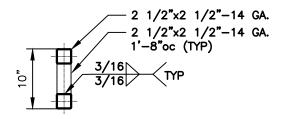
HEADER DETAIL FOR DOOR OPENINGS < 4'-0"
NTS



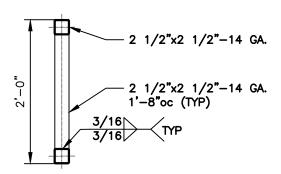
HEADER DETAIL FOR DOOR

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"



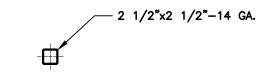
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|--------|-------|----|---|---|---|---|--|
| Mangly | Velle | ۲R | Α | G | Ε | S |  |

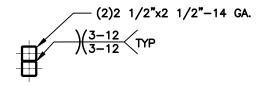
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### **END WALL HEADER OPTIONS**



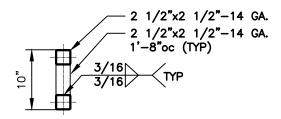
HEADER DETAIL FOR DOOR OPENINGS < 7'-0" NTS



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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