

#### STRUCTURAL DESIGN

# STANDARD PACKAGE ENCLOSED BUILDING

#### MAXIMUM 30'- 0" WIDE X 14'- 0" HEIGHT-BOX EAVE FRAME AND BOW FRAME

22 July 2024 Revision 5 M&A Project No. 17259S/19076S/19176S/20124S/23125S/24189S

Prepared for:

Universal Metal Buildings 9283 US 601 Dobson, NC 27017

Prepared by:

Moore and Associates Engineering and Consulting, Inc.

1009 East Avenue North Augusta, SC 29841 401 South Main Street Mount Airy, NC 27030

JOSH EVERHART 150 BENNETT RD COATS, NC, 27521

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ENGINEERING AND CONSULTING

Validity Notice.
Plans Expiration Date: 22 July 2025
Plans are valid for one year from issuance date

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No. 2968 WOOD WEALTH OF MANUEL BEAD PLOTE EN READ REGISTER 25776 Lic. No. 056922 JAMES READ PLOT STATE OF SSIONAL JOSH EVERHART 150 BENNETT RD COATS NC, 27521 Validity Notice Plans Expiration Date: 22 July 2025 UNIVERSAL METAL BUILDINGS 9283 US 601 DRAWN BY BF MOORE AND ASSOCIATES DOBSON, NC 27017 ENGINEERING AND CONSULTING, INC. 30'-0"x14'-0" SP ENCLOSED STRUCTURE CHECKED BY: JS JOB ND: 17259\$/19076\$ /19176\$/20124\$/23125\$ /24189\$ THIS DOCUMENT IS THE PROPERTY OF HODRE AND ASSOCIATES ENGINEERING AND CONSULTING. THE UNMITHORIZED REPRODUCTION, COPYING, OR DITHERVISE USE OF THIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION. PROJECT MGR: JRP DATE: 7-22-24 SCALE NTS DWG. NO SK-3 SHT. 1 CLIENT: UNIVERSAL

DRAWING INDE PE SEAL COVER SHEET SHEET 1 INSTALLATION NOTES AND SPECIFICATIONS COATS, NC, 27521 SHEET 2 SHEET 3 LIST OF APPLICABLE BUILDING CODES SHEET 3A SHEET 4 TYPICAL END AND SIDE ELEVATIONS SHEET 5 TYPICAL RAFTER/COLUMN END AND SIDE FRAMING SECTION (BOX EAVE RAFTER) TYPICAL RAFTER/COLUMN END AND SIDE FRAMING SECTION SHEET 5A (BOX EAVE RAFTER) SHEET 6 RAFTER/COLUMN CONNECTION DETAILS (BOX EAVE RAFTER) SHEET 6A RAFTER/COLUMN CONNECTION DETAILS (BOX EAVE RAFTER) TYPICAL RAFTER/COLUMN END AND SIDE FRAMING SECTION SHEET 7 (BOW EAVE RAFTER) SHEET 7A TYPICAL RAFTER/COLUMN END AND SIDE FRAMING SECTION (BOW EAVE RAFTER) SHEET 8 RAFTER/COLUMN CONNECTION DETAILS (BOW EAVE RAFTER) SHEET 8A RAFTER/COLUMN CONNECTION DETAILS (BOW EAVE RAFTER) SHEET 9 BASE RAIL ANCHORAGE OPTIONS BASE RAIL ANCHORAGE OPTIONS SHEET 9A BASE RAIL ANCHORAGE OPTIONS SHEET 9B SHEET 10 TYPICAL END WALL AND SIDE WALL FRAMING SECTIONS (BOX EAVE) SHEET 11 TYPICAL END WALL AND SIDE WALL FRAMING SECTIONS (BOW EAVE) SHEET 12 CONNECTION DETAILS SHEET 13 CONNECTION DETAILS SHEET 14 CONNECTION DETAILS SHEET 15 BOX EAVE RAFTER LEAN-TO OPTIONS SHEET 15A BOX EAVE RAFTER LEAN-TO OPTION FOR GROUND SNOW LOADS < 20 PSF SHEET 16 BOW EAVE RAFTER LEAN-TO OPTION FOR GROUND SNOW LOADS < 20 PSF SHEET 17 BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION SHEET 18 SIDE WALL AND END WALL HEADER OPTIONS FOR TS SINGLE COLUMNS SHEET 18A SIDE WALL AND END WALL HEADER OPTIONS FOR TS DOUBLE COLUMNS

# JOSH EVERHART 150 BENNETT RD COATS, NC, 27521

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	30'-0"x1	DOBSON, N 4'-0" SP ENCI		017 D STRUCTURE
	DATE: 7-22-24	SCALE: NTS		ND: 17259S/19076S 76S/20124S/23125S 189S
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UNIVERSAL METAL BUILDINGS 9283 US 601

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#### INSTALLATION NOTES AND SPECIFICATIONS

- 1. DESIGN IS FOR MAXIMUM 30'-0" WIDE x 14'-0" EAVE HEIGHT ENCLOSED STRUCTURES.
- 2. DESIGN WAS DONE IN ACCORDANCE WITH ALL THE APPLICABLE BUILDING CODES LISTED ON SHEET 3A.

3. DESIGN LOADS ARE AS FOLLOWS:

A) ROOF DEAD LOADS:

SELF-WEIGHT = 1.5 PSF MEP = 0 PSF

COLLATERAL = 0 PSF

B) ROOF LIVE LOAD = 12 PSF

C) FLOOR LIVE LOAD = 100 PSF (4" CONCRETE SLAB/FOOTING)

D) GROUND SNOW LOAD = 35 PSF

= 20 PSF WITH U-CHANNEL RAFTER TIE (W ≤ 16'-0")

NOTE: DROP-DOWN LEAN-TO'S (THOSE CAUSING A HEIGHT DIFFERENTIAL FROM THE MAIN STRUCTURE) SHALL BE LIMITED TO GROUND SNOW LOADS < 20 PSF DUE TO ADDITIONAL SNOW DRIFT LOADING.

JOSH EVERHART

150 BENNETT RD

COATS, NC. 27521

- 4. ULTIMATE 3-SECOND GUST WIND SPEED = < 145 MPH (NOMINAL WIND SPEED = 112 MPH).
- 5. MAXIMUM RAFTER/POST AND END POST SPACING = 5.0 FEET (UNLESS NOTED OTHERWISE)
- 6. END WALL COLUMNS ARE EQUIVALENT TO SIDE WALL COLUMNS IN SIZE AND SPACING (UNLESS NOTED OTHERWISE).
- 7. RISK CATEGORY I (NOT FOR HUMAN OCCUPANCY).
- 8. WIND EXPOSURE CATEGORY B.
- 9. STRUCTURAL ANALYSIS/DESIGN IS BASED ON TS MEETING THE REQUIREMENTS OF ASTM A653 GRADE 50 TYPE SS WITH MINIMUM YIELD STRENGTH (Fy) DF 50 KSI AND GALVANIZING MEETING THE MINIMUM REQUIREMENTS DF G60.
- 10. HORIZONTAL ROOF PANELING ONLY ADEQUATE FOR GROUND SNOW LOADS < 30 PSF
- 11. SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/2"x2 1/2"-14 GAUGE TUBE STEEL (TS) FRAMING MEMBERS (UNLESS NOTED OTHERWISE).
- 12. CONNECTOR SLEEVES ARE MINIMUM 6' LONG, TS 2 1/4"x2 1/4"-14 GAUGE FOR 2 1/2"x2 1/2"-14 GAUGE (UNLESS NOTED OTHERWISE).
- 13. AVERAGE FASTENER SPACING DN-CENTERS = 10' (MAX.)
- 14. FASTENERS CONSIST OF #12-14x3/4" SELF-DRILLING FASTENER (SDF), USE CONTROL SEAL WASHER WITH EXTERIOR FASTENERS.
- 15. ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6' OF EACH COLUMN.
- 16. STANDARD GROUND ANCHORS (SOIL NAILS) CONSIST OF #4 REBAR W/ WELDED NUT x 36' LONG AND MAY ONLY BE USED IN CONJUNCTION WITH OTHER (OPTIONAL) ANCHOR DEVICES AND ONLY IN SUITABLE SOILS. OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USED IN UNSUITABLE SOILS AS NOTED. COORDINATE WITH LOCAL CODES/ORDINANCES REGARDING MINIMUM LENGTH FOR FROST DEPTH PROTECTION.
- CONTRACTOR TO PROVIDE ADEQUATE BRACING FOR STRUCTURE SO THAT IT WILL BE STABLE DURING ALL STAGES OF CONSTRUCTION THE STRUCTURE AND FOUNDATIONS ARE DESIGNED FOR A COMPLETED CONDITION ONLY AND, THEREFORE, REQUIRE ADDITIONAL SUPPORT TO MAINTAIN STABILITY BEFORE COMPLETION.
- 18. WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE

SDIL SITE CLASS = D RISK CATEGORY I

R = 3.25

 $I_E = 1.0$  $S_{DS} = 2.625 g$ V = CsW

 $S_{DI} = 2.13 g$ 

- 19. IF MORE THAN 50% OF COLUMN (LEG) ARE REMOVED IN ANY LONGITUDINAL (SIDE) WALL OF A BUILDING, THE ENGINEER IS TO BE NOTIFIED TO DETERMINE WHETHER PORTAL FRAMES OR OTHER LONGITUDINAL STABILITY ELEMENTS WILL BE REQUIRED
- 20. ANALYSIS/DESIGN OF THIS STRUCTURE WAS BASED ON THE LOADS, BUILDING CODE, AND STRUCTURAL GEOMETRY NOTED HEREIN. NO CHANGES SHALL BE MADE TO THE STRUCTURE WITHOUT EXPRESS WRITTEN PERMISSION FROM THE DESIGN ENGINEER. ANY CHANGES IN THE USE OR GEOMETRY OF THE STRUCTURE IN ANY MANNER IS A VIOLATION OF THE BUILDING CODE AND NEGATES ANY LIABILITY ON THE PART OF MODRE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.
- 21. WHEN USING GENERIC MASTER DESIGNS TO OBTAIN BUILDING PERMIT, IT MUST BE ACCOMPANIED BY SUFFICIENT ADDITIONAL INFORMATION TO INDICATE THE LOCATION, NATURE, AND EXTEND OF THE CONSTRUCTION AND SHOW IN DETAIL THAT IT WILL CONFORM TO ALL APPLICABLE CODES, LAWS, ORDINANCES, RULES, AND REGULATIONS.
- 22. WHEN APPLYING FOR BUILDING PERMIT, THE BUILDING OFFICIAL MUST BE CONSULTED TO VERIFY WHETHER THE USE OF THE MASTER DESIGN IS ADEQUATE OR IF A SITE-SPECIFIC DESIGN IS REQUIRED FOR OBTAINING A BUILDING PERMIT. GENERIC MASTER DESIGNS CAN NOT BE USED WHERE A SITE-SPECIFIC DESIGN IS REQUIRED.
- 23. ANY VARIATION FROM THE ANALYSIS/DESIGN PARAMETERS OF THE MASTER DESIGN REQUIRES THE DEVELOPMENT OF A SITE-SPECIFIC DESIGN.

JOSH EVERHART 150 BENNETT RD COATS, NC, 27521

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CHECKED BY: JS	DOBSON, NC 27017 30'-0"x14'-0" SP ENCLOSED STRUCTURE			
PROJECT MGR: JRP	DATE: 7-22-24	SCALE: NTS		ND: 17259\$/19076\$ 76\$/20124\$/23125\$ 89\$
CLIENT: UNIVERSAL	SHT. 3	DVG. NO: SK-3 REV. 5		REV. 5

#### LIST OF APPLICABLE BUILDING CODES

2021 INTERNATIONAL BUILDING CODE (IBC 2021)

2018 INTERNATIONAL BUILDING CODE (IBC 2018)

2015 INTERNATIONAL BUILDING CODE (IBC 2015)

2012 INTERNATIONAL BUILDING CODE (IBC 2012)

GEORGIA STATE MINIMUM STANDARD BUILDING CODE (ADOPTS THE IBC 2018 WITH AMENDMENTS)

2018 KENTUCKY BUILDING CODE (ADOPTS THE IBC 2015 WITH AMENDMENTS)

2020 BUILDING CODE OF NEW YORK STATE (ADOPTS THE IBC 2018 WITH AMENDMENTS)

2018 NORTH CAROLINA BUILDING CODE (ADOPTS THE IBC 2015 WITH AMENDMENTS)

2024 DHIO BUILDING CODE (ADDPTS THE IBC 2021 WITH AMENDMENTS)

PENNSYLVANIA BUILDING CODE 2018
(ADDPTS THE IBC 2018 WITH AMENDMENTS)
PHILADELPHIA BUILDING CODE
(ADDPTS THE IBC 2018 WITH AMENDMENTS)

2021 SOUTH CAROLINA BUILDING CODE (ADOPTS THE IBC 2021 WITH AMENDMENTS)

TENNESSEE BUILDING CODE 2012
(ADDPTS THE IBC 2012 WITH AMENDMENTS)
BUILDING CODE OF THE CITY OF KNOXVILLE
(ADDPTS THE IBC 2018 WITH AMENDMENTS)
BUILDING CODE OF METROPOLITAN NASHVILLE AND
DAVIDSON COUNTY (ADOPTS THE IBC 2018 WITH
AMENDMENTS)
(IBC 2012, IBC 2018, IBC 2021 (DEPENDENT UPON
LOCAL JURISDICTION))

VIRGINIA UNIFORM STATEWIDE BUILDING CODE, PART 1, CONSTRUCTION/VIRGINIA CONSTRUCTION CODE (VCC) (ADOPTS THE IBC 2021 WITH AMENDMENTS)

WEST VIRGINIA BUILDING CODE 2018 (ADOPTS THE IBC 2018 WITH AMENDMENTS)

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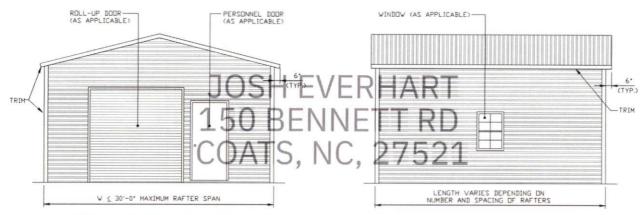
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#### BOX EAVE FRAME RAFTER STRUCTURE

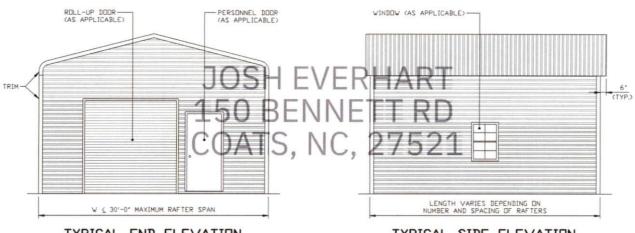


#### TYPICAL END ELEVATION

SCALE: NTS

## TYPICAL SIDE ELEVATION SCALE: NTS

#### BOW FRAME RAFTER STRUCTURE



TYPICAL END ELEVATION SCALE: NTS

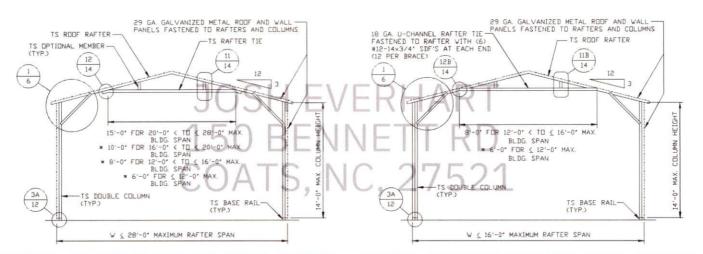
TYPICAL SIDE ELEVATION

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#### TYPICAL RAFTER/COLUMN END FRAME SECTION

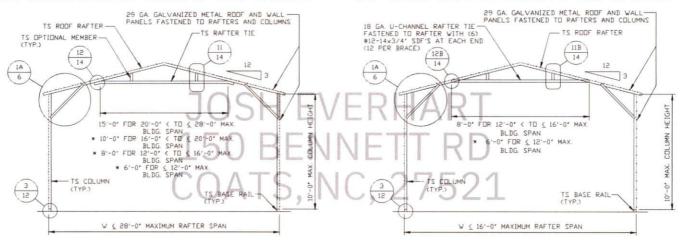
SCALE: NTS

\* NOTE: VERTICAL STRUTS NOT REQUIRED FOR THESE TIE LENGTHS

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SCALE: NTS

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SCALE: NTS

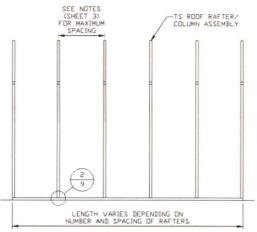
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#### TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS

\* NOTE: VERTICAL STRUTS NOT REQUIRED FOR THESE TIE LENGTHS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

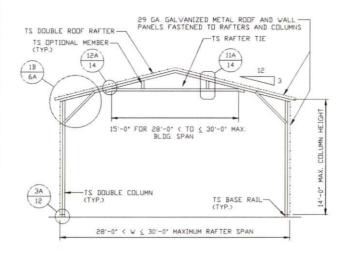
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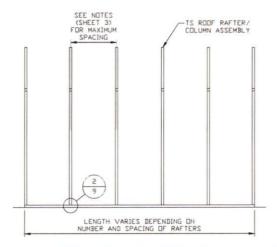
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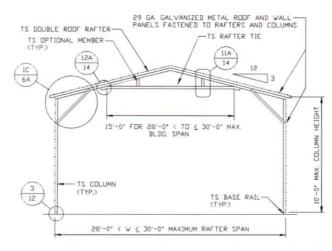
#### TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS NDTE: SINGLE TUBE RAFTER CAN BE USED FOR GROUND SNOW LOADS & 30 PSF



#### TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

SCALE: NTS



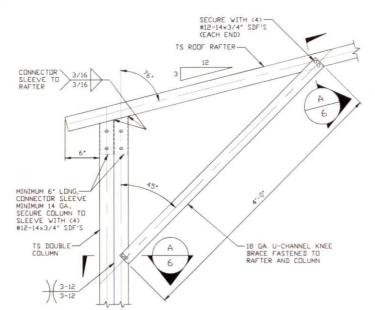
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NOTE: SINGLE TUBE RAFTER CAN BE USED FOR GROUND SNOW LOADS & 30 PSF

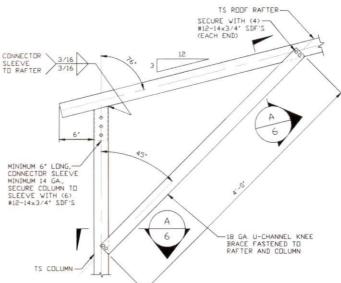
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PROJECT MGR: JRP	DATE: 7-22-24	SCALE: NTS		ND 17259\$/19076\$ 6\$/20124\$/23125\$ 99\$	
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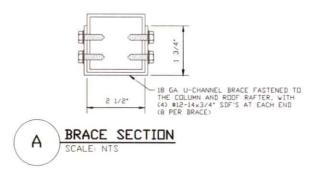


BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 10'-0' < TO < 14'-0' SCALE: NTS



BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS & 10'-0'

SCALE: NTS NDTE: MAXIMUM COLUMN HEIGHT IS 12'-0" FOR WIND SPEEDS \(\leq\) 115 MPH.



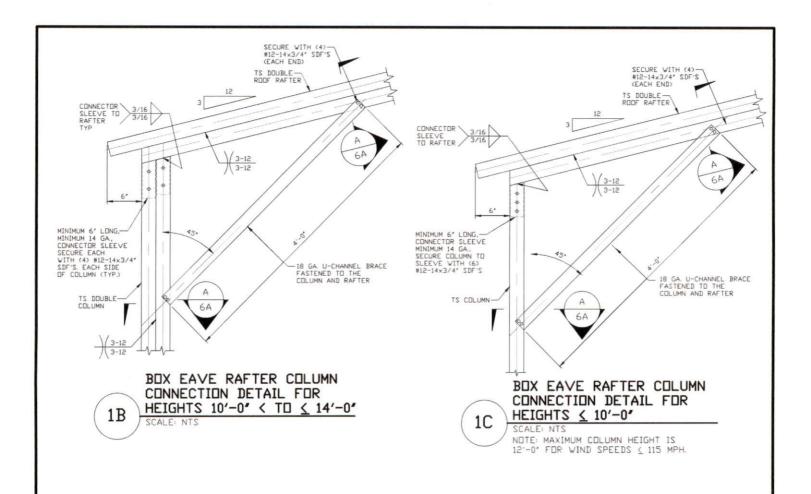
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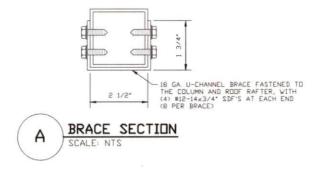
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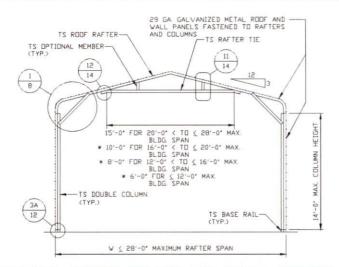


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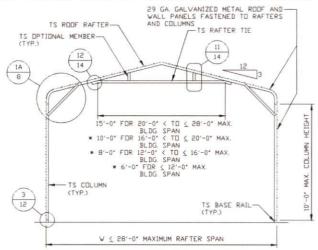
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#### TYPICAL RAFTER/COLUMN END FRAME SECTION

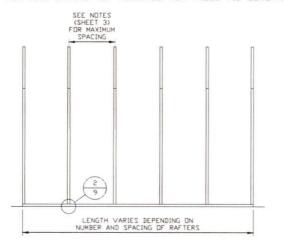
SCALE: NTS

NOTE: VERTICAL STRUTS NOT REQUIRED FOR THESE TIE LENGTHS



#### TYPICAL RAFTER/COLUMN END FRAME SECTION

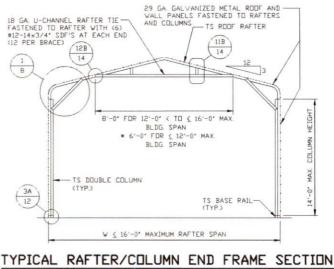
\* NOTE: VERTICAL STRUTS NOT REQUIRED FOR THESE TIE LENGTHS



#### TYPICAL RAFTER/COLUMN FRAMING SIDE SECTION

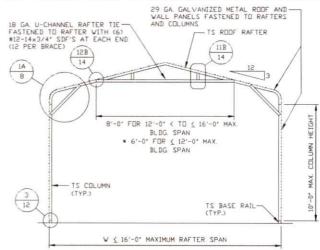
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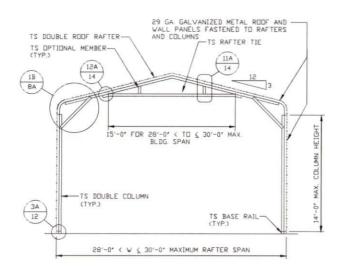
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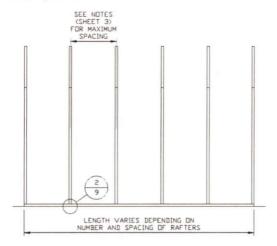
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CLIENT: UNIVERSAL	SHT. 7	DWG. NO: SK	-3	REV. 5	



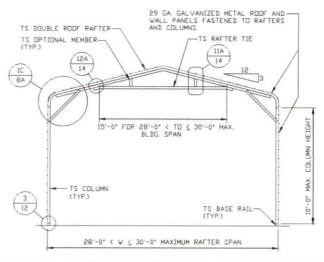
#### TYPICAL RAFTER/COLUMN END FRAME SECTION

NOTE: SINGLE TUBE RAFTER CAN BE USED FOR GROUND SNOW LOADS & 30 PSF



#### TYPICAL RAFTER/COLUMN FRAMING SIDE SECTION

SCALE: NTS



#### TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS NOTE: SINGLE TUBE RAFTER CAN BE USED FOR GROUND SNOW LOADS \( \) 30 PSF

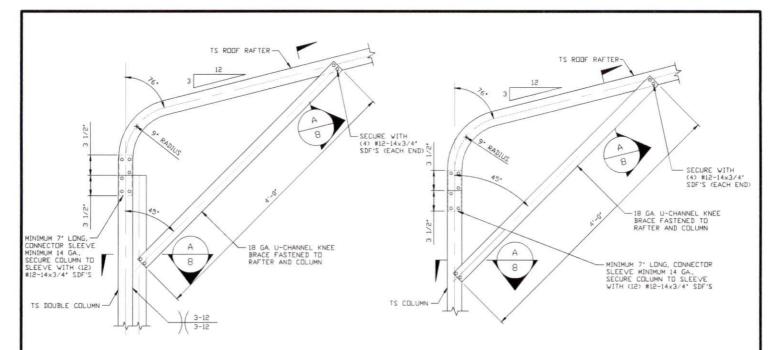
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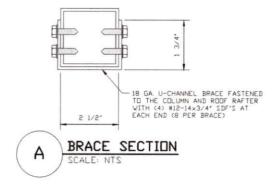


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1 SCALE: NTS

BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 10'-0" < T□ < 14'-0" BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS ≤ 10'-0"

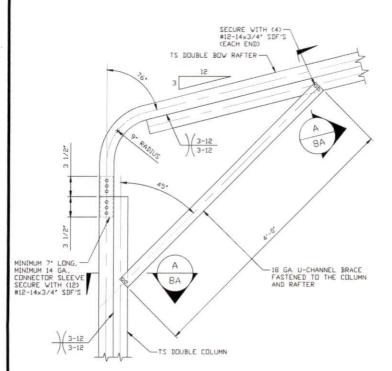
SCALE: NTS NOTE: MAXIMUM COLUMN HEIGHT IS 12'-0' FOR WIND SPEEDS & 115 MPH.

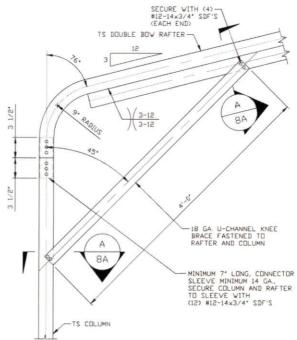


Validity Notice Plans Expiration Date: 22 July 2025

MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

DRAWN BY: BF CHECKED BY: JS	-	UNIVERSAL METAL BUILDINGS 9283 US 601 DOBSON, NC 27017 30'-0"x14'-0" SP ENCLOSED STRUCTURE			
PROJECT MGR: JRP	DATE: 7-22-24	SCALE: NTS	JOB 1 /1917 /2418	ND 17259S/19076S 6S/20124S/23125S 89S	
CLIENT: UNIVERSAL	SHT. 8	DVG. ND: SK-3 REV.: 5		REV. 5	





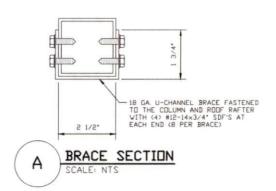
BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 10'-0' < TO ≤ 14'-0' 1B

SCALE: NTS

BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS ≤ 10'-0"

SCALE: NTS NOTE: MAXIMUM COLUMN HEIGHT IS 12'-0" FOR WIND SPEEDS < 115 MPH.

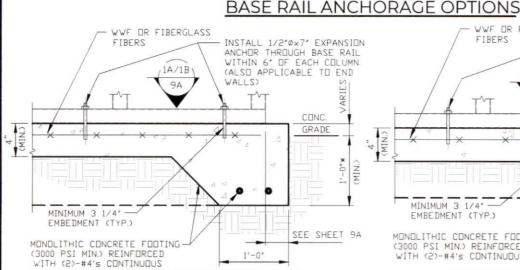
1C



Validity Notice Plans Expiration Date: 22 July 2025

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.

DRAWN BY: BF	UNIVERSAL METAL BUILDINGS 9283 US 601 DOBSON, NC 27017 30'-0"x14'-0" SP ENCLOSED STRUCTURE				
PROJECT MGR: JRP	DATE: 7-22-24	JDB ND: 17259S/1907 /19176S/20124S/2318 /24189S			
CLIENT: UNIVERSAL	SHT. 8A	DVG. ND: SK-3 REV. 5			



#### CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

SEE SHEET 9A FOR MINIMUM ANCHOR EDGE DISTANCE.
\* COORDINATE WITH LOCAL BUILDING
CODE/ORD. REGARDING MINIMUM FROST DEPTH (LENGTH).

#### GENERAL NOTES

NOTE: CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SDIL BEARING CAPACITY DF 1,500 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 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 OR 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 MAY BE BENT IN THE SHOP OR 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.
REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT

BE FIELD BENT.

JOSH EVERHART 150 BENNETT RE COATS, NC, 27521

WWF OR FIBERGLASS FIBERS ANCHOR THROUGH BASE RAIL WITHIN 6' OF EACH COLUMN. (ALSO APPLICABLE TO END 1A/1B WALLS) 9A (MIN.) MINIMUM 3 1/4" -EMBEDMENT (TYP.) SEE SHEET 9A MONOLITHIC CONCRETE FOOTING (3000 PSI MIN.) REINFORCED WITH (2)-#4's CONTINUOUS 1'-0"

#### CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

SEE SHEET 9A FOR MINIMUM ANCHOR EDGE DISTANCE.
\* COORDINATE WITH LOCAL BUILDING CODE/ORD. REGARDING MINIMUM FROST DEPTH (LENGTH).

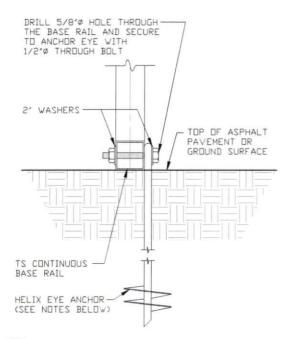
> Validity Notice Plans Expiration Date:

> > 22 July 2025

MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

DRAWN BY: BF	UNIVERSAL METAL BUILDINGS 9283 US 601				
CHECKED BY: JS	DOBSON, NC 27017 30'-0"x14'-0" SP ENCLOSED STRUCTURE				
PROJECT MGR: JRP	DATE: 7-22-24	SCALE: NTS		ND: 17259\$/19076\$ 76\$/20124\$/23125\$ 89\$	
CLIENT: UNIVERSAL	SHT. 9	DVG. NO SK	-3	REV. 5	

#### BASE RAIL ANCHORAGE OPTIONS

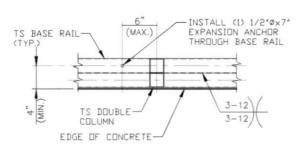


[20]

#### GROUND BASE HELIX ANCHORAGE

SCALE: NTS (CAN BE USED FOR GRADE OR ASPHALT)

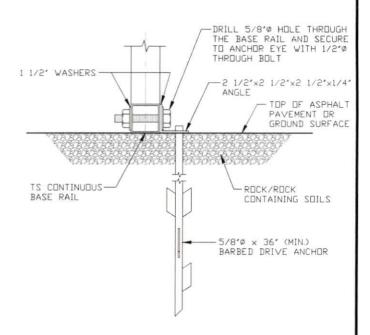
\* COORDINATE WITH LOCAL BUILDING CODE/ORD. REGARDING MINIMUM FROST DEPTH (LENGTH).





#### HELIX ANCHOR NOTES:

- 1. FOR VERY DENSE AND/OR CEMENTED SANDS, COARSE GRAVEL AND COBBLES, CALICHE, PRELOADED SILTS AND CLAYS, USE MINIMUM (2) 4' HELICES WITH MINIMUM 30' EMBEDMENT OR SINGLE 6' HELIX WITH MINIMUM 50' EMBEDMENT
- 2. FOR CORAL USE MINIMUM (2) 4' HELICES WITH MINIMUM 30' EMBEDMENT OR SINGLE 6' HELIX WITH MINIMUM 50' EMBEDMENT.
- 3. FOR MEDIUM DENSE COARSE SANDS, SANDY GRAVELS, VERY STIFF SILTS, AND CLAYS USE MINIMUM (2) 4" HELICES WITH MINIMUM 30 INCH EMBEDMENT OR SINGLE 6" HELIX WITH MINIMUM 50" FMRFDMENT.
- 4. FOR LODSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS ALLUVIAL FILL, USE MINIMUM (2) 6" HELICES WITH MINIMUM 50" EMBEDMENT.
- FOR VERY LOSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER CLAYS AND SILTS, ALLUVIAL FILL, USE MINIMUM (2) 8' HELICES WITH MINIMUM 60' EMBEDMENT.

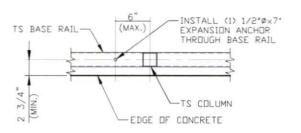


2D

#### ASPHALT BASE ANCHORAGE

SCALE: NTS

\* COORDINATE WITH LOCAL BUILDING CODE/ORD. REGARDING MINIMUM FROST DEPTH (LENGTH).



1B SECTION SCALE: NTS

Validity Notice

Plans Expiration Date:

22 July 2025

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DRAWN BY: BF	UNIVERSAL METAL BUILDINGS 9283 US 601 DOBSON, NC 27017 30'-0"x14'-0" SP ENCLOSED STRUCTURE				
CHECKED BY: JS	30 -0"X14 -0" SP ENCLOSED STRUCTURE				
PROJECT MGR: JRP	DATE: 7-22-24	SCALE: NTS		ND: 17259\$/19076\$ 76\$/20124\$/23125\$ 89\$	
CLIENT: UNIVERSAL	SHT. 9A	DVG. NO SK	-3	REV. 5	

# BASE RAIL ANCHORAGE OPTIONS EDGE OF CONC. TS 2 1/2'x2 1/2'-14 GA. TS 2 1/2'x2 1/2'-14 GA. WINIMUM 3 1/4' EMBEDMENT (TYP.) SECTION 1 SCALE: NTS 9B

TYPICAL ANCHOR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE

SCALE: NTS

Validity Notice

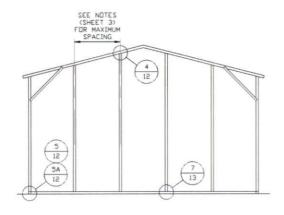
Plans Expiration Date:

22 July 2025

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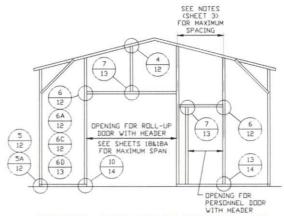
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CHECKED BY: JS	DOBSON, NC 27017 30'-0"x14'-0" SP ENCLOSED STRUCTURE					
PROJECT MGR: JRP	DATE: 7-22-24	SCALE: NTS		NDi 17259\$/19076\$ 76\$/20124\$/23125\$ 89\$		
CLIENTI UNIVERSAL	SHT. 9B	DWG. NO SK	-3	REV. 5		

#### TYPICAL END WALL AND SIDE WALL FRAMING SECTIONS



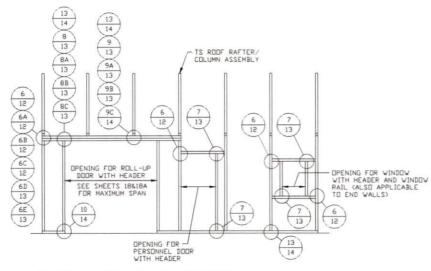
TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE: NTS

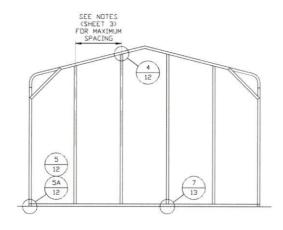
Validity Notice

Plans Expiration Date:

22 July 2025

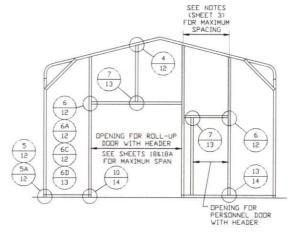
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PROJECT MGR: JRP	DATE: 7-22-24	JDB ND: 17259\$/19076: /19176\$/20124\$/23125: /24189\$			
CLIENT: UNIVERSAL	SHT. 10	DWG. ND: SK-3 REV.: 5		REV. 5	

#### TYPICAL END WALL AND SIDE WALL FRAMING SECTIONS



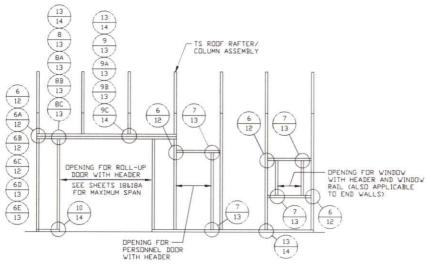
TYPICAL BOW RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BOW RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS



# TYPICAL BOW RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE: NTS

Validity Notice

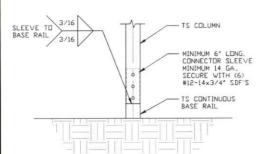
Plans Expiration Date:

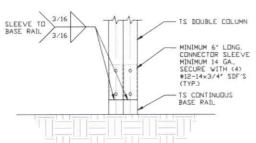
22 July 2025

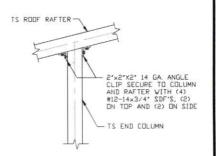
MOORE AND ASSOCIATES	
ENGINEERING AND CONSULTING, I	NC.

DRAWN BY: BF	UNIVERSAL METAL BUILDINGS 9283 US 601 DOBSON, NC 27017			
CHECKED BY: JS	30'-0"x14'-0" SP ENCLOSED STRUCTURE			
PROJECT MGR: JRP	DATE: 7-22-24	401740 10010 10		ND: 17259\$/19076\$ 76\$/20124\$/23125\$ 89\$
CLIENT: UNIVERSAL	SHT. 11	DWG. NO SK-3		REV. 5

#### **CONNECTION DETAILS**







RAFTER COLUMN/BASE RAIL CONNECTION DETAIL 3

SCALE: NTS

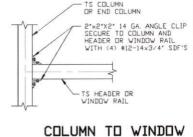
RAFTER COLUMN/BASE RAIL CONNECTION DETAIL

END COLUMN/RAFTER CONNECTION DETAIL 4

SCALE: NTS

TS COLUMN (CORNER) CONNECTOR MINIMUM 6' LONG, SLEEVE TO BASE RAIL MINIMUM 14 GA., CONNECTOR SLEEVE. 3/16 SECURE WITH (6) #12-14×3/4" SDF'S 2x2'x2' 14 GA. CLIP ANGLE SECURE TO RAFTER COLUMN AND BASE RAIL WITH (4) #12-14x3/4' SDF'S TS CONTINUOUS

TS DOUBLE COLUMN (CORNER) CONNECTOR MINIMUM 6' LDNG, MINIMUM 14 GA., CDNECTOR SLEEVE. SECURE WITH (4) #12-14×3/4' SDF'S (TYP.) SLEEVE TO BASE RAIL TYP 3/16 2'x2'x2' 14 GA. CLIP ANGLE SECURE TO RAFTER COLUMN AND BASE RAIL WITH (4) #12-14x3/4' SDF'S TS CONTINUOUS



RAIL/HEADER

SCALE: NTS

CONNECTION DETAIL

END COLUMN/BASE RAIL CONNECTION DETAIL

SCALE: NTS

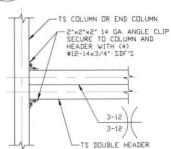
END COLUMN/BASE RAIL CONNECTION DETAIL 5A

> TS ROOF RAFTER 3/16 3/16 7' TS COLUMN

-MINIMUM 6' LONG MINIMUM 14 GA. CONNECTOR SLEEVE SECURE WITH (6) #12-14×3/4' SDF'S

SCALE: NTS

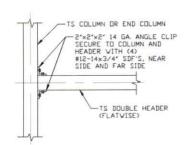
6



DOUBLE HEADER TO COLUMN

SCALE: NTS

LINITUEDONI METAL BUILDINGS



DOUBLE HEADER TO COLUMN CONNECTION DETAIL

TS DOUBLE HEADER

CONNECTOR SLEEVE TO HEADER

6B SCALE: NTS

3/16

3/16

Validity Notice

CONNECTION DETAIL

Plans Expiration Date:

22 July 2025

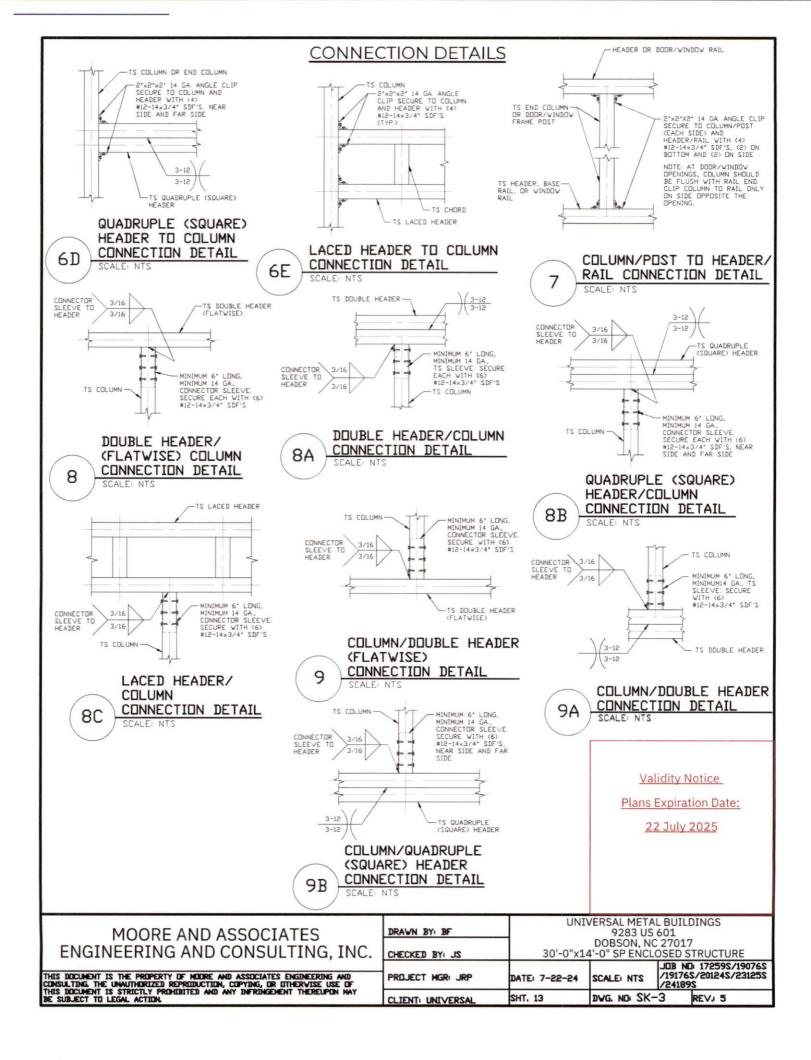
DOUBLE HEADER (FLATWISE) TO COLUMN CONNECTION DETAIL 6A SCALE: NTS

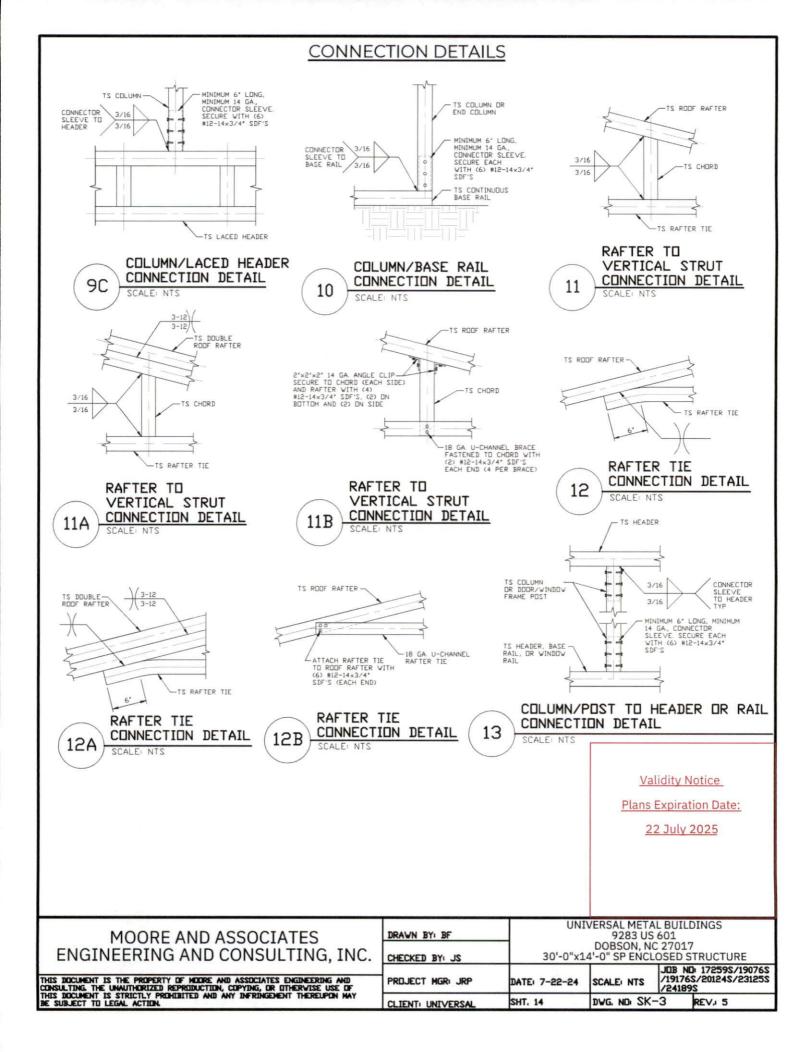
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DRAWN BY: BF	9283 US 601				
CHECKED BY: JS	DOBSON, NC 27017 30'-0"x14'-0" SP ENCLOSED STRUCTURE				
PROJECT MGR: JRP	DATE: 7-22-24		D: 17259\$/19076\$ \$\$/20124\$/23125\$ 9\$		
CLIENT: UNIVERSAL	SHT. 12	DWG. ND: SK-3 REV. 5		REV. 5	

60



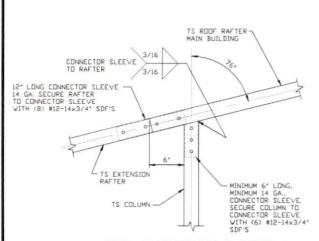


#### **BOX EAVE RAFTER LEAN-TO OPTIONS** 14A 15 15 15A 15B 3 12 3A 3 12 3A 12 ROOF EXTENSION OPTION LEAN-TO OPTION MAIN STRUCTURE 12 9 12 3A 12 SEE SHEET 15A FOR MAX. LEAN-TO SPAN SEE BELOW FOR MAX. LEAN-TO SPAN W & 30'-0" MAXIMUM RAFTER SPAN

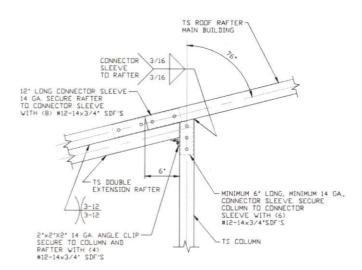
#### TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)

SCALE: NTS

ITE: 1. REFER TO SHEET 6 FOR COLUMN HEIGHTS AND TYPES
2. LEAN-TO COLUMN SPACING SHALL MATCH MAIN BUILDING



SIDE EXTENSION RAFTER/
COLUMN DETAIL FOR
WIDTHS & 12'-0'



SIDE EXTENSION RAFTER/
COLUMN DETAIL FOR WIDTHS

12'-0' < L \( \leq \) 18'-0'

SCALE: NTS

Validity Notice

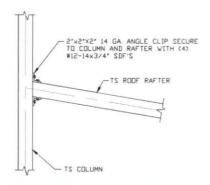
Plans Expiration Date:

22 July 2025

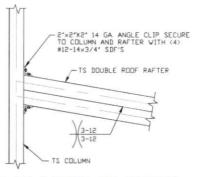
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MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.
Ename of the constraints, inc.

DRAWN BY: BF	UNI	UNIVERSAL METAL BUILDINGS 9283 US 601			
CHECKED BY: JS	30'-0"x1	DOBSON, NC 27017 30'-0"x14'-0" SP ENCLOSED STRUCTURE			
PROJECT MGR: JRP	DATE: 7-22-24	SCALE: NTS			
CLIENT: UNIVERSAL	SHT. 15	DWG. ND: SK-3 REV.: 5		REV. 5	

# BOX EAVE RAFTER LEAN-TO OPTION FOR GROUND SNOW LOADS\_< 20 PSF



LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS \(\leq \) 12'-0'



LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS 12'-0' < L \( \leq \) 18'-0'

Validity Notice

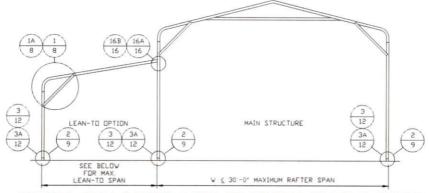
Plans Expiration Date:

22 July 2025

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DRAWN BY: BF	UNI	UNIVERSAL METAL BUILDINGS 9283 US 601				
CHECKED BY: JS	30'-0"x1	DOBSON, NC 27017 30'-0"x14'-0" SP ENCLOSED STRUCTURE				
PROJECT MGR: JRP	DATE: 7-22-24	SCALE: NTS /19176S/20124S/2: /24189S				
CLIENT: UNIVERSAL	SHT. 15A	DVG. ND: SK-3 REV. 5		REV. 5		

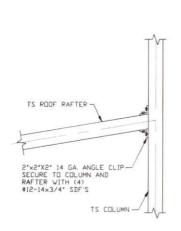
# BOW EAVE RAFTER LEAN-TO OPTION FOR GROUND SNOW LOADS\_< 20 PSF



#### TYPICAL BOW RAFTER LEAN-TO OPTION FRAMING SECTION

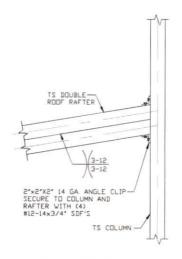
SCALE: NTS

NOTE: 1. REFER TO SHEET 8 FOR COLUMN HEIGHTS AND TYPES 2. LEAN-TO COLUMN SPACING SHALL MATCH MAIN BUILDING



LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR WIDTHS < 12'-0'\_

16A) SCALE: NTS



LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL

| FOR WIDTHS 12'-0' < L \( \) 18'-0'

SCALE: NTS

Validity Notice

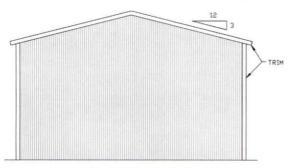
Plans Expiration Date:

22 July 2025

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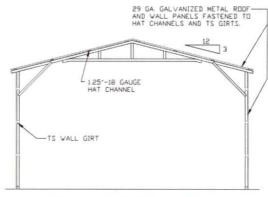
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CHECKED BY: JS	30'-0"x1	DOBSON, NC 27017 30'-0"x14'-0" SP ENCLOSED STRUCTURE				
PROJECT MGR: JRP	DATE: 7-22-24	SCALE: NTS	JUB ND: 17259\$/19076\$ /19176\$/20124\$/23125\$ /24189\$			
CLIENTI UNIVERSAL	SHT. 16	DWG. ND SK	-3	REV. 5		

#### **BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION**



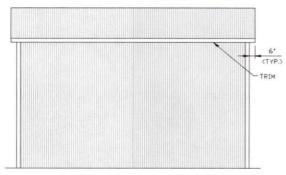
## TYPICAL END ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS



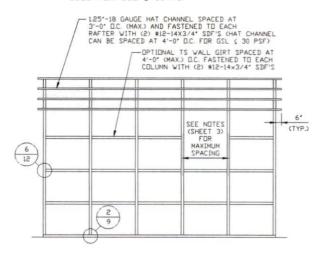
## TYPICAL SECTION VERTICAL ROOF/SIDING OPTION

SCALE: NTS



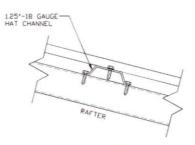
## TYPICAL SIDE ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS NOTE: HORIZONTAL ROOF PANELS CAN BE USED FOR GSL 5 30 PSF



# TYPICAL FRAMING SECTION VERTICAL ROOF/SIDING OPTION

SCALE: NTS
NDTE: HAT CHANNEL CAN BE USED IN LIEU OF TS FOR
WALL GIRTS. HAT CHANNELS SHALL BE SPACED AT 4'-0'
D.C. AND FASTENED WITH (2) #12-14×3/4" SDF'S.



#### PANEL ATTACHMENT

(ALTERNATE FOR VERTICAL ROOF PANELS)
SCALE: NTS

Validity Notice

Plans Expiration Date:

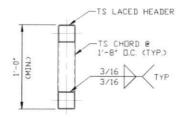
22 July 2025

# MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.

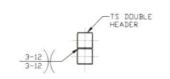
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PROJECT MGR: JRP	DATE: 7-22-24	SCALE: NTS		ND: 17259\$/19076\$ 76\$/20124\$/23125\$ 89\$		
CLIENT: UNIVERSAL	SHT. 17	DWG. NO SK	-3	REV. 5		

#### SIDE WALL HEADER OPTIONS FOR TS SINGLE COLUMNS

NOTE: HEADER DESIGN DOES NOT TAKE IN TO ACCOUNT ADDITIONAL ROOF LOADING FROM ATTACHED LEAN-TO STRUCTURES.



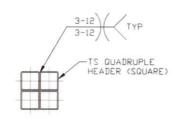
HEADER DETAIL FOR 10'-0" < LENGTH ≤ 12'-0"



HEADER DETAIL FOR 6'-0" < LENGTH ≤ 10'-0"

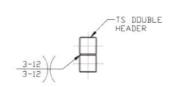


#### END WALL HEADER OPTIONS FOR TS SINGLE COLUMNS



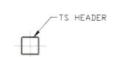
HEADER DETAIL FOR 13'-0" < LENGTH < 16'-0"

SCALE: NTS



HEADER DETAIL FOR 8'-0' < LENGTH <u><</u> 13'-0'

SCALE: NTS



HEADER DETAIL FOR LENGTH & 8'-0"

Validity Notice

Plans Expiration Date:

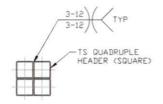
22 July 2025

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.

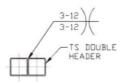
CLIENT: UNIVERSAL	SHT. 18	DVG. ND SK		REV. 5	
PROJECT MGR: JRP	DATE: 7-22-24	SCALE: NTS		ND: 17259\$/19076\$ 76\$/20124\$/23125\$	
CHECKED BY: JS	DOBSON, NC 27017 30'-0"x14'-0" SP ENCLOSED STRUCTURE				
DRAWN BY: BF	UNIVERSAL METAL BUILDINGS 9283 US 601				

#### SIDE WALL HEADER OPTIONS FOR TS DOUBLE COLUMNS

NOTE: HEADER DESIGN DOES NOT TAKE IN TO ACCOUNT ADDITIONAL ROOF LOADING FROM ATTACHED LEAN-TO STRUCTURES.



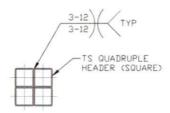
HEADER DETAIL FOR 8'-0" < LENGTH < 12'-0"



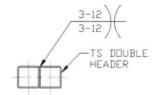
HEADER DETAIL FOR LENGTH < 8'-0"

SCALE: NTS

#### END WALL HEADER OPTIONS FOR TS DOUBLE COLUMNS



HEADER DETAIL FOR 11'-0' < LENGTH ≤ 16'-0'



HEADER DETAIL FOR LENGTH ≤ 11'-0" SCALE: NTS

> Validity Notice Plans Expiration Date: 22 July 2025

MOORE AND ASSOCIATES	
ENGINEERING AND CONSULTING, INC.	

DRAWN BY: BF	UNIVERSAL METAL BUILDINGS 9283 US 601 DOBSON, NC 27017				
CHECKED BY: JS	30'-0"x1	STRUCTURE			
PROJECT MGR: JRP	DATE: 7-22-24	SCALE: NTS		D 17259\$/19076\$ \$\$/20124\$/23125\$ 9\$	
CLIENT: UNIVERSAL	SHT. 18A	DAC NO 2K-3		REV. 5	

**DATE**: 06/04/2025

**REF**: Residential Building Application

TO: Central Permitting

FAX: (910) 893-2793

FROM: Joshua Everhart

PHONE: (813) 763-7536

Please see the application for my Residential Building Application. Please let me know if you need additional information or if you have any questions.

Thank you,

Joshua Everhart