

## STRUCTURAL DESIGN ENCLOSED BUILDING RISK CATEGORY I AND II

#### MAXIMUM 40'- 0" WIDE X 20'- 0" HEIGHT-BOX EAVE FRAME

7 August 2020 Revision 2 M&A Project No. 17327S/19051S/20128S

#### Prepared for:

Steel Building Garages 1804 River Street Wilkesboro, NC 28697

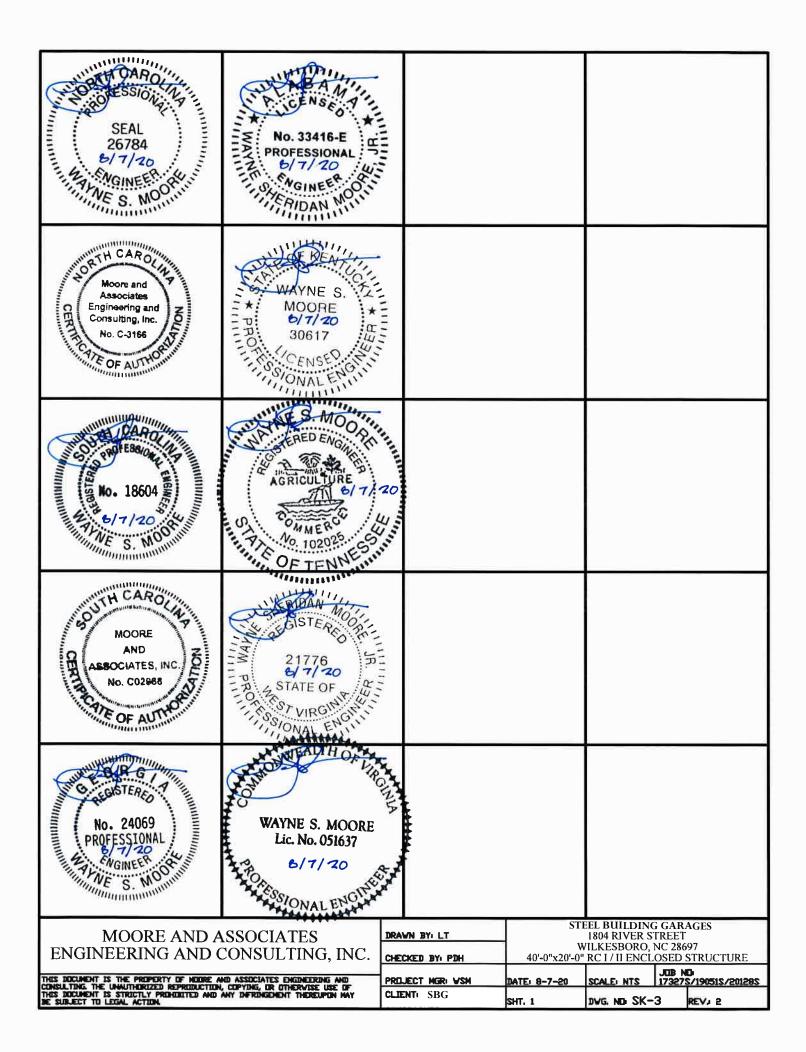
#### Prepared by:

Moore and Associates Engineering and Consulting, Inc.

1009 East Avenue North Augusta, SC 29841

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#### INSTALLATION NOTES AND SPECIFICATIONS

- 1. DESIGN IS FOR MAXIMUM 40'-0" WIDE x 20'-0" EAVE HEIGHT ENCLOSED STRUCTURES.
- 2. DESIGN WAS DONE IN ACCORDANCE WITH THE 2018 NORTH CAROLINA BUILDING CODE, 2009 INTERNATIONAL BUILDING CODE (IBC), 2012 IBC, 2015 IBC AND 2018 IBC.
- 3. DESIGN LOADS ARE AS FOLLOWS:

A) DEAD LOAD = 11.5 PSF FOR RISK CATEGORY II, = 1.5 PSF FOR RISK CATEGORY II, B) LIVE LOAD = 20 PSF FOR RISK CATEGORY II, = 12 PSF FOR RISK CATEGORY II.

- C) GROUND SNOW LOAD = 35 PSF (MAXIMUM 45 PSF AT MAXIMUM 4'-0' D.C. RAFTER/POST SPACING)

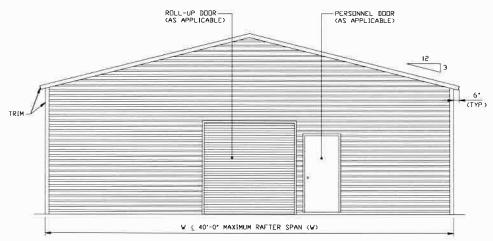
  (UNBALANCED SNOW LOADS DUE TO DRIFTING HAVE NOT BEEN EVALUATED)
- 4, 3-SECOND ULTIMATE WIND SPEED (V<sub>ULT</sub>) = 115 TO 150 MPH (NOMINAL WIND SPEED = 89 TO 116 MPH) FOR RISK CATEGORY II
- 5. 3-SECOND ULTIMATE WIND SPEED ( $V_{ULT}$ ) = 105 TO 150 MPH (NOMINAL WIND SPEED = 81 TO 116 MPH) FOR RISK CATEGORY I.
- 6 MAXIMUM RAFTER/POST AND END POST SPACING = 50 FEET (UNLESS NOTED OTHERWISE).
- 7 END WALL COLUMNS/POSTS ARE EQUIVALENT TO SIDE WALL COLUMNS/POSTS IN SIZE AND SPACING UNLESS NOTED OTHERWISE.
- 8 RISK CATEGORY I/II

 $S_{D1} = 1.258 g$ 

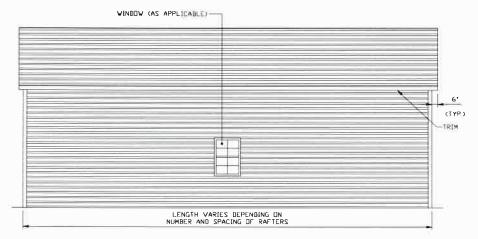
- 9 WIND EXPOSURE CATEGORY B/C
- 10. SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2" x 3" 14 GAUGE TUBE STEEL (TS) FRAMING MEMBERS (UNLESS NOTED OTHERWISE).
- 11 AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR HAT CHANNELS, AND COLUMNS (INTERIOR OR END) = 10° O.C. (MAX.) FOR RC I AND 8° O.C. (MAX.) FOR RC II.
- 12 FASTENERS CONSIST OF #12-14x3/4" SELF-DRILLING FASTENER (SDF), USE CONTROL SEAL WASHER WITH EXTERIOR FASTENERS.

  SPECIFICATIONS APPLICABLE ONLY FOR MEAN ROOF HEIGHT OF 20 FEET OR LESS, AND ROOF SLOPES OF 14" (3:12 PITCH) OR LESS SPACING REQUIREMENTS FOR OTHER ROOF HEIGHTS AND/OR SLOPES MAY VARY ROOF SLOPES LESS THAN 3:12 REQUIRE USE OF LAP JOINT SEALANT.
- 13. GROUND ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6' OF EACH RAFTER COLUMN ALONG SIDES.
- 14 STANDARD SOIL NAIL FOUNDATION SYSTEM CONSISTS OF #4 REBAR W/ WELDED NUT x 30' LONG AND ARE APPLICABLE ONLY IN MEDIUM TO STIFF (SUITABLE) SOILS SOIL NAILS MAY BE USED FOR WIND SPEEDS < 145 MPH OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USED FOR WIND SPEEDS > 145 MPH AND/OR IN UNSUITABLE SOILS AS NOTED COORDINATE WITH LOCAL CODES/ORDINANCES REGARDING MINIMUM LENGTH FOR FROST DEPTH PROTECTION.
- 16. FOR RISK CATEGORY II STRUCTURES, MAXIMUM THRESHOLD HEIGHT IS  $\leq 1/2^{\star}$  FOR PERSONNEL DOORS UTILIZED AS MEANS OF EGRESS

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## $\frac{\text{TYPICAL END ELEVATION}}{\text{SCALE: NTS}}$



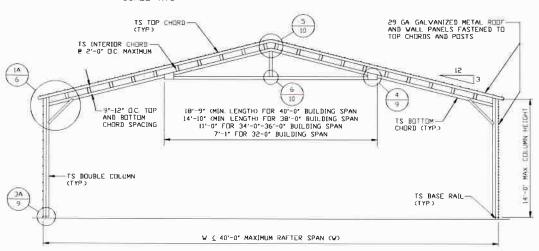
## TYPICAL SIDE ELEVATION SCALE: NTS

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#### **RISK CATEGORY II** 29 GA GALVANIZED METAL ROOF AND VALL PANELS FASTENED TO TOP CHORDS AND POSTS. TS TOP CHORD TS INTERIOR CHORD-6 4 9 9°-12° D.C. TOP AND BOTTOM CHORD SPACING 18'-9' (MIN LENGTH) FOR 40'-0' BUILDING SPAN 14'-10' (MIN LENGTH) FOR 38'-0' BUILDING SPAN 11'-0' FOR 34'-0'-36'-0' BUILDING SPAN 7'-1' FOR 32-0' BUILDING SPAN COLUMN HEJGHT TS BOTTOM — CHORD (TYP) TS LACED COLUMN ΑĀ 20.-02 TS BASE RAIL 1'-0" (TYP) W C 40'-0' MAXIMUM RAFTER SPAN (W)

#### TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS



#### TYPICAL RAFTER/COLUMN FRAME SECTION

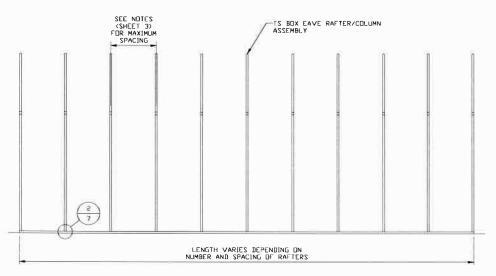
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# TS TOP CHORD TS INTERIOR CHORD 29 GA GALVANIZED METAL ROUF AND VALL PARELS FASTENED TO TOP CHORDS AND POSTS 18 -9' (MIN LENGTH) FOR 40'-0' BUILDING SPAN 11'-0' (MIN LENGTH) FOR 39'-0' BUILDING SPAN 11'-0' FOR 34'-0'-36'-0' BUILDING SPAN 11'-0' FOR 32-0' BUILDING SPAN 11'-0' FOR 32-0' BUILDING SPAN TS BOTTOM CHORD (TYP) TS BASE RAIL (TYP) V & 40'-0' MAXIMUM RAFTER SPAN (V)

#### TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS



#### TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

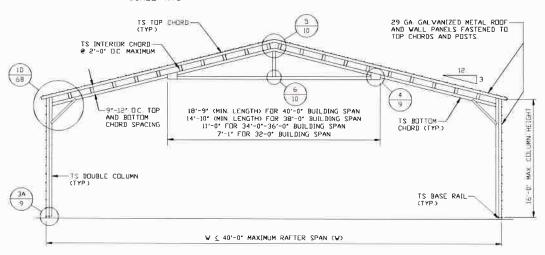
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# RISK CATEGORY I TS TOP CHORD TS INTERIOR CHORD E 2'-0' DC MAXIMUM 12 18'-9' (MIN LENGTH) FOR 40'-0' BUILDING SPAN PORTION CHORD SPACING CHORD SPACING CHORD SPACING CHORD SPACING 11'-0' FOR 34'-0'-36'-0' BUILDING SPAN PORTION CHORD SPACING 11'-0' FOR 32-0' BUILDING SPAN PORTION CHORD SPACING 11'-0' FOR 32-0' BUILDING SPAN PORTION CHORD SPACING 11'-0' MAXIMUM RAFTER SPAN (W)

#### TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS



#### TYPICAL RAFTER/COLUMN FRAME SECTION

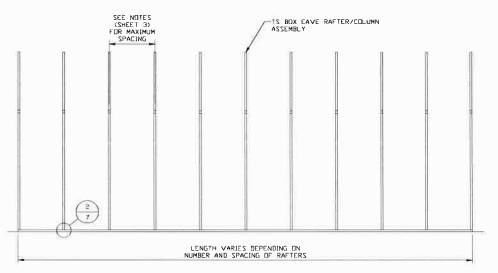
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## TS TOP CHORD (TYP) TS INTERIOR CHORD 9 2'-0' DC MAXIMUM 18'-9' (MIN LENGTH) FOR 40'-0' BUILDING SPAN CHORD SPACING 11'-10' (MIN LENGTH) FOR 40'-0' BUILDING SPAN CHORD SPACING 11'-0' FOR 34'-0'-36'-0' BUILDING SPAN CHORD (TYP) TS BASE RAIL 15 BASE RAIL 17 BASE RAIL 18 BASE RAIL 18 BASE RAIL 18 BASE RAIL 19 TS BASE RAIL 19 TS BASE RAIL 10 TS BASE RAIL 11 TS BASE RAIL 12 TS BASE RAIL 13 TS BASE RAIL 14 TS BASE RAIL 15 BASE RAIL 17 TS BASE RAIL 18 BASE RAIL 19 TS BASE RAIL 19 TS BASE RAIL 10 TS BASE RAIL 10 TS BASE RAIL 11 TS BASE RAIL 11 TS BASE RAIL 12 TS BASE RAIL 13 TS BASE RAIL 14 TS BASE RAIL 15 BASE RAIL 17 TS BASE RAIL 18 TS BASE RAIL 19 TS BASE RAIL 19 TS BASE RAIL 10 TS BASE RAIL 10 TS BASE RAIL 11 TS BASE RAIL 11 TS BASE RAIL 12 TS BASE RAIL 13 TS BASE RAIL 14 TS BASE RAIL 15 BASE RAIL 16 TS BASE RAIL 17 TS BASE RAIL 18 TS BASE RAIL 19 TS BASE RAIL 19 TS BASE RAIL

#### TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS



#### TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

SCALE NTS

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#### **RISK CATEGORY II COLUMN CONNECTION DETAILS** TS TOP CHORD TYP 3/16 CONNECTOR COLUMN TO BOTTOM 3/16 CHORD -TS INTERIOR MOTTOB 2T -SECURE WITH (4) #12-14x3/4° SDF'S (EACH END) TS CONNECTOR CONNECTOR SLEEVE TO BOTTOM CHORD 18 GA U-CHANNEL KNEE BRACE FASTENED TO RAFTER AND COLUMN 3/16 MINIMUM 6" LONG, CONNECTOR SLEEVE MINIMUM 14 GA, SECURE COLUMN TO SLEEVE WITH (4) #12-14x3/4" SDF'S -MINIMUM 12" LONG, CONNECTOR SLEEVE MINIMUM 14 GA, SECURE COLUMN TO SLEEVE WITH (B) #12-L4×3/4" SDF'S TS CHORD 1 -8 TS LACED COLUMN BRACE SECTION 3/16 SCALE: NTS BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 14'-0" < T□ < 20'-0" 1 TS TOP CHORD 3/16 TYP 3/16 CONNECTOR COLUMN TO BOTTOM CHORD TS INTERIOR CHORD TS BOTTOM TS DOUBLE-CONNECTOR COLUMN SECURE WITH (4) #12-14x3/4° SDF'S (EACH END) CONNECTOR 3/16 SLEEVE 3/16 CHORD 3/16 10 GA U-CHANNEL KNEE BRACE FASTENED TO RAFTER AND COLUMN MINIMUM 12" LING— CONNECTOR SLEEVE MINIMUM 14 GA., SECURE COLUMN TO SLEEVE WITH (8) #12-14×3/4" SDF'S IS DOUBLE COLUMN 3-12 BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 12'-0" < T□ < 14'-0" SCALE: NTS STEEL BUILDING GARAGES MOORE AND ASSOCIATES DRAWN BY: LT 1804 RIVER STREET WILKESBORO, NC 28697 ENGINEERING AND CONSULTING, INC. 40'-0"x20'-0" RC I / II ENCLOSED STRUCTURE CHECKED BY: PDH

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DATE: 8-7-20

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SCALE NTS

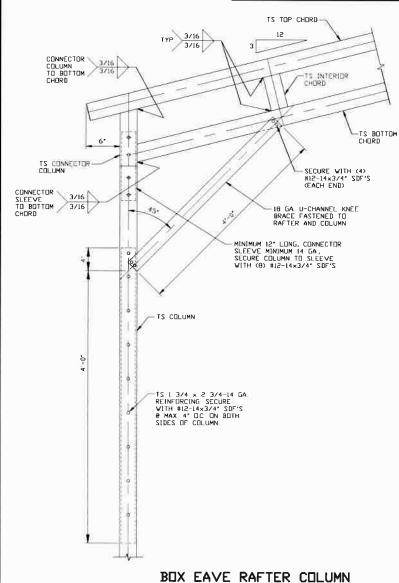
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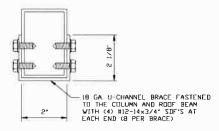
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#### **RISK CATEGORY II COLUMN CONNECTION DETAILS**





## BRACE SECTION SCALE: NTS

CONNECTION DETAIL FOR

SCALE NTS

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	D.

STEEL BUILDING GARAGES 1804 RIVER STREET WILKESBORO, NC 28697 40'-0"x20'-0" RC I / II ENCLOSED STRUCTURE

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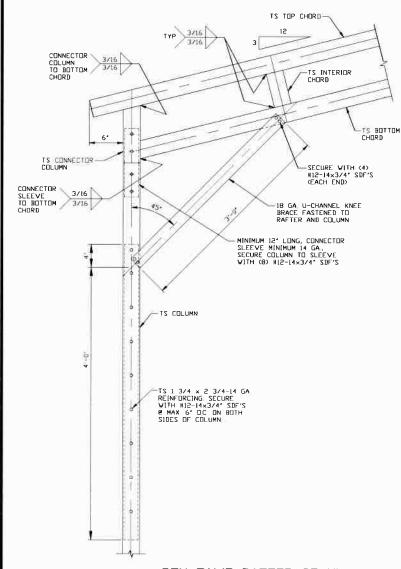
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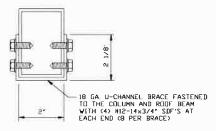
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#### **RISK CATEGORY I COLUMN CONNECTION DETAILS** 3/16 TYP CONNECTOR COLUMN TO BOTTOM CHORD TS INTERIOR CHORD TS BOTTOM SECURE WITH (4) #12-14x3/4" SDF'S (EACH END) CONNECTOR SLEEVE TO BOTTOM 3/16 CHORD 18 GA U-CHANNEL KNEE BRACE FASTENED TO RAFTER AND COLUMN MINIMUM 6' LONG, CONNECTOR SLEEVE MINIMUM 14 GA, SECURE COLUMN TO SLEEVE WITH (4) #12-14x3/4' SDF'S MINIMUM 12" LONG, CONNECTOR SLEEVE MINIMUM 14 GA, SECURE COLUMN TO SLEEVE WITH (8) #12-14×3/4" SDF'S 18 GA U-CHANNEL BRACE FASTENED TO THE COLUMN AND ROOF BEAM WITH (4) #12-14×3/4' SDF'S AT EACH END (8 PER BRACE) TS CHORD 1 -8 (MAX.) TS LACED COLUMN BRACE SECTION 3/16 SCALE: NTS BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 16'-0' < TO < 20'-0' 1C TS TOP CHORD 3/16 3/16 CONNECTOR 3/16 COLUMN TO BOTTOM 3/16 CHORD TS INTERIOR CHORD TS BOTTOM TS DOUBLE-CONNECTOR COLUMN SESURE WITH (4) #12-14x3/4' SDF'S (EACH END) CONNECTOR SLEEVE TO BOTTOM CHORD 3/16 MINIMUM 12" LONG,— CONNECTOR SLEEVE MINIMUM 14 GA, SECURE COLUMN TO SLEEVE WITH (8) #12-14×3/4" SDF'S TS DOUBLE COLUMN BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 14'-0" < T□ <u><</u> 16'-0" 1D SCALE: NTS STEEL BUILDING GARAGES

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#### **RISK CATEGORY I COLUMN CONNECTION DETAILS**





## BRACE SECTION SCALE: NTS

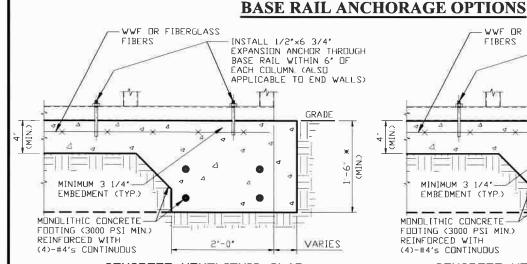
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١	<b>HEIGHTS</b>	<u>&lt;</u>	14'-0"	
1	SCALE: NTS			

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	DRAWN BY: LT		STEEL BUILDING GARAGES 1804 RIVER STREET					



#### CONCRETE MONOLITHIC SLAB BASE RAIL ANCHURAGE

SCALE: NTS NOTE: MIN. ANCHOR EDGE DISTANCE IS 4' \* CODRDINATE WITH LOCAL BUILDING CODE ORD. REGARDING REQUIRED FROST DEPTH (LENGTH)

#### GENERAL NOTES

NOTE: CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 1,500 PSF

#### CONCRETE

CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH DF 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 OR WEATHER, AND 1 1/2' ELSEWHERE.

#### REINFORCING STEEL:

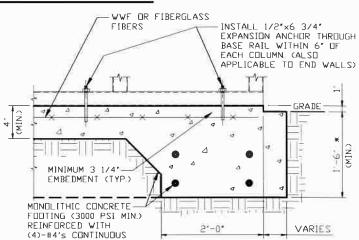
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

#### 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
- 3 REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIFI D BENT

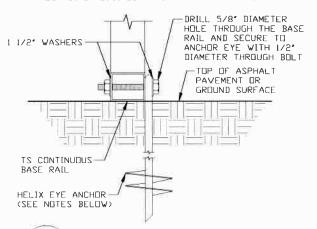
#### HELIX ANCHOR NOTES:

- I 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
- 4. FOR LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS ALLUVIAL FILL, USE MINIMUM (2) 6' HELICES WITH MINIMUM 50" EMBEDMENT.
- 5 FOR VERY LOSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER CLAYS AND SILTS, ALLUVIAL FILL, USE MINIMUM (2) 8' HELICES WITH MINIMUM 60' EMBEDMENT



CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE WITH NOTCH

SCALE: NTS
NOTE: MIN. ANCHOR EDGE DISTANCE IS 4"
\* COORDINATE WITH LOCAL BUILDING CODE ORD.
REGARDING REQUIRED FROST DEPTH (LENGTH)



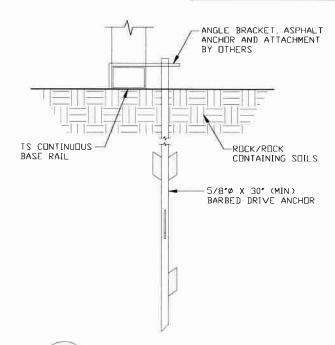
GROUND BASE HELIX ANCHORAGE

(CAN BE USED FOR ASPHALT) \* COORDINATE WITH LOCAL CODES/ORD
REGARDING MIN FROST DEPTH (LENGTH)

2B

MOORE AND ASSOCIATES DRAWN BY: LT		STEEL BUILDING GARAGES 1804 RIVER STREET			
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#### **BASE RAIL ANCHORAGE OPTIONS**

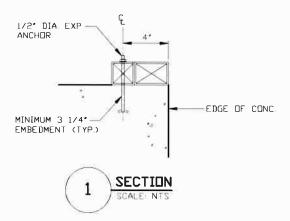


EDGE OF CONC. TS 2"x2"-14 GA DR TS 2"x3"-14 GA TS CONTINUOUS BASE RAIL A NI W (MAX.) TS COL (LEG)

TYPICAL ANCHUR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE

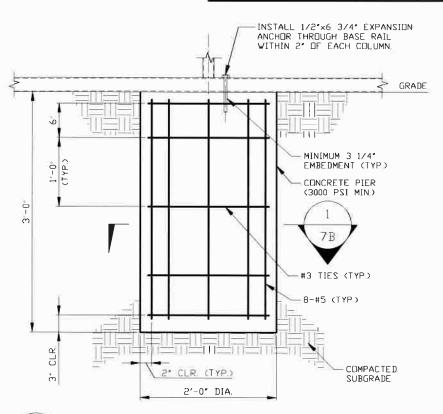
### BARBED DRIVE ANCHORAGE

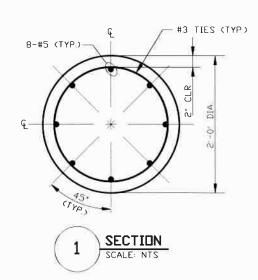
SCALE: NTS \* COORDINATE WITH LOCAL CODES/ORD. REGARDING MIN FROST DEPTH (LENGTH)



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#### **BASE RAIL ANCHORAGE OPTIONS**





DRILLED CONCRETE PIER BASE RAIL ANCHORAGE

SCALE: NTS
(NOTE: MIN. ANCHOR EDGE DISTANCE IS 4°)
\* COORDINATE WITH LOCAL CODES/ORD,
REGARDING MIN. FROST DEPTH (LENGTH)

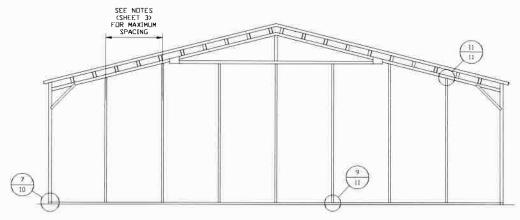
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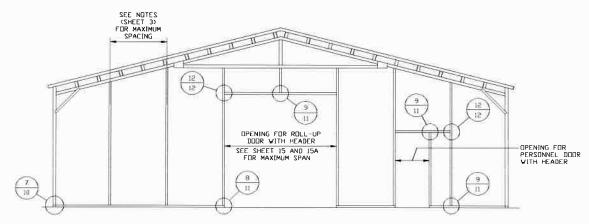
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	DRAWN BY: LT	1804 RIVER STREET					

#### BOX EAVE RAFTER END WALL AND END WALL OPENINGS



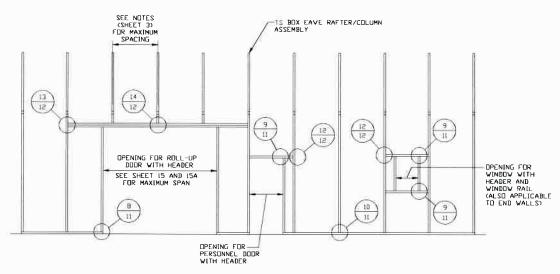
## $\frac{\text{TYPICAL BDX EAVE RAFTER END WALL FRAMING SECTION}}{\text{SCALE: NTS}}$



TYPICAL BUX EAVE RAFTER END WALL OPENING FRAMING SECTION SCALE: NTS

MOORE AND ASSOCIATES	SOCIATES  BRAWN BY: LT  STEEL BUILDING GARAGES 1804 RIVER STREET				ES
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#### **BOX EAVE RAFTER SIDE WALL OPENINGS**

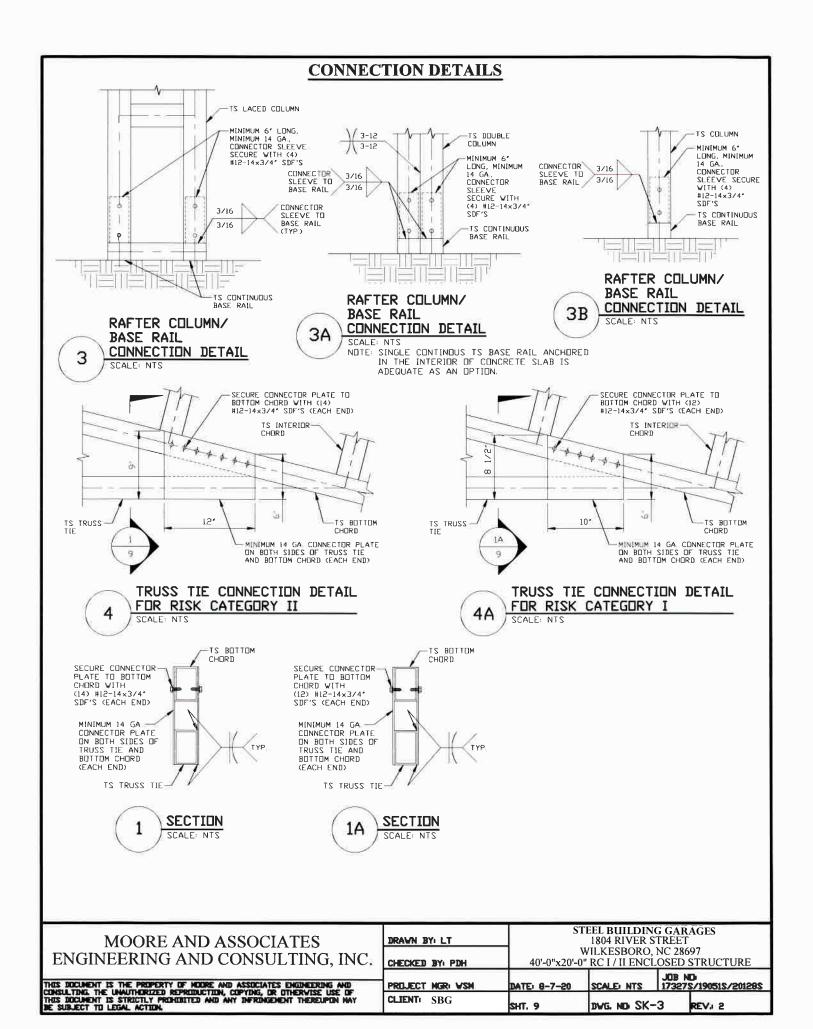


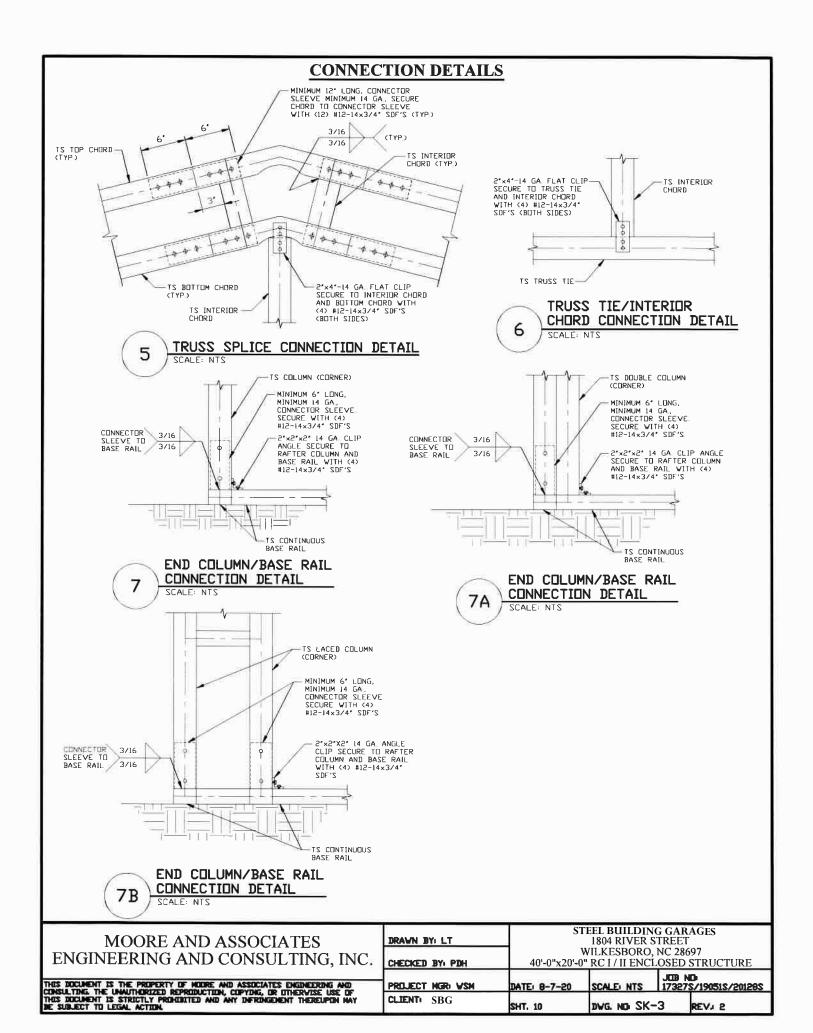
 $\frac{\mathsf{TYPICAL}}{\mathsf{SCALE:}} \; \mathsf{NTS} \; \; \; \; \mathsf{EAVE} \; \; \mathsf{RAFTER} \; \; \mathsf{SIDE} \; \; \mathsf{WALL} \; \; \mathsf{OPENINGS} \; \; \mathsf{FRAMING} \; \; \mathsf{SECTION}$ 

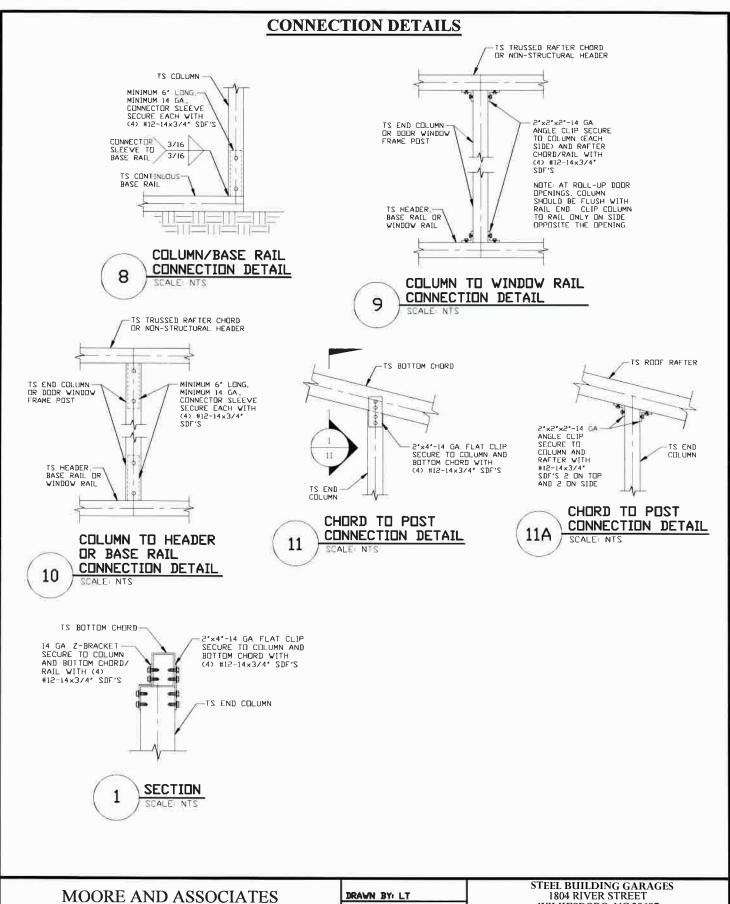
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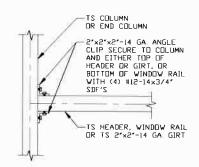




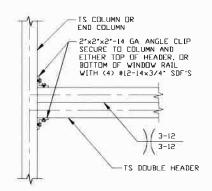


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#### **CONNECTION DETAILS**

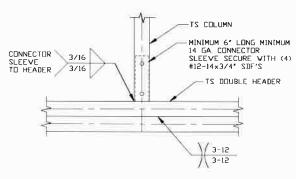


COLUMN OR WINDOW RAIL/WALL GIRT TO POST
CONNECTION DETAIL
SCALE: NTS



HEADER TO COLUMN CONNECTION DETAIL

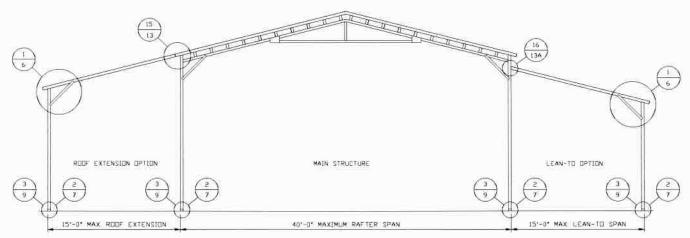
SCALE NTS



COLUMN TO HEADER
CONNECTION DETAIL
SCALE: NTS

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#### **BOX EAVE RAFTER LEAN-TO OPTIONS**



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

12 CONNECTOR COLUMN TO TO THE CHORD

12 CONNECTOR SLEEVE WITH

13 CONNECTOR SLEEVE WITH

15 CONNECTOR SLEEVE WITH

17 CONNECTOR SLEEVE WITH

18 RIDE RAFTER TO CHORD

19 MINIMUM 12 COLUMN TO SLEEVE WITH

10 SECURE COLUMN TO SLEEVE WITH

11 S CONNECTOR SLEEVE WITH

12 COLUMN TO SLEEVE WITH

13 MINIMUM 14 GA

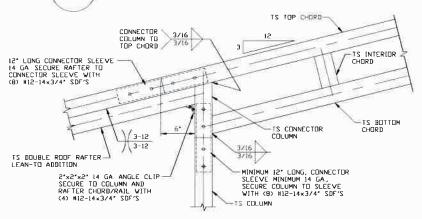
15 COLUMN TO SLEEVE WITH

17 S COLUMN TO SLEEVE WITH

18 SECURE COLUMN TO SLEEVE WITH

19 SECURE COLUMN TO SLEEVE WITH

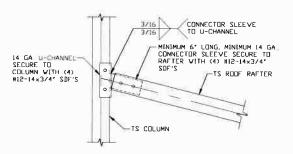
## SIDE EXTENSION RAFTER/COLUMN DETAIL FOR RAFTER SPANS \( \frac{12'-0'}{2CALE: NTS} \)



SIDE EXTENSION RAFTER/COLUMN DETAIL FOR RAFTER SPANS 12'-0" < TO < 15'-0"

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#### **BOX EAVE RAFTER LEAN-TO OPTIONS**



LEAN-TO RAFTER TO RAFTER
COLUMN CONNECTION DETAIL

FOR RAFTER SPANS & 12'-0'

2'\*2' 2' 14 GA ANGLE
CLIP SECURE TO COLUMN
AND RAFTER WITH
(4) #12-14×3/4' SDF'S

IS ROOF RAFTER

LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS & 12'-0'

3/16

3/16

3/16

TO U-CHANNEL

SECURE TO COUNMN WITH (4)

M12-14×3/4' SDF'S

TS COLUMN

LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS 12'-0' < TO < 15'-0'

TS COLUMN

2'x2'x2' 14 GA ANGLE
CLIP SECURE TO COLUMN
AND RAFTER WITH
(4) M12-14x3/4' SDF'S

TS ROOF RAFTER

3-12
3-12

LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS 12'-0' < TO \( \leftarrow 15'-0'' \)

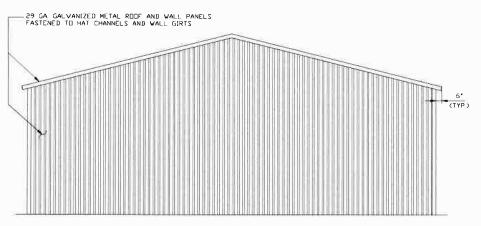
16C) SCALE: NTS

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ENGINEERING AND CONSULTING, INC	J.,

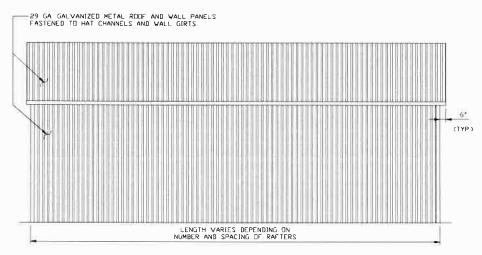
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-		WILKESBORO, NC 28697					
١,	CHECKED BY: PDH	40'-0"x20'-0" RC I / II ENCLOSED STRUCTURE					
_				JEB N			
-	PROJECT MGR: WSM	DATE: 8-7-20	SCALE: NTS	17327	282102\217051\2		
	CLIENT: SBG	SHT. 13A	DVG. ND SK-	3	REV. 2		

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



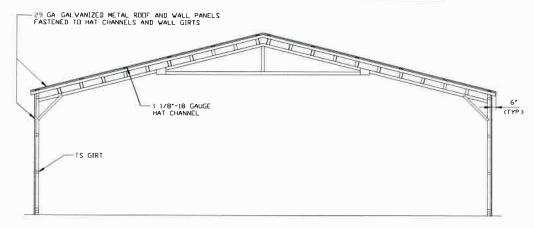
## $\frac{\text{TYPICAL END ELEVATION VERTICAL ROOF/SIDING}}{\text{SCALE: NTS}}$



## $\frac{\text{TYPICAL SIDE ELEVATION VERTICAL ROOF/SIDING}}{\text{SCALE NTS}}$

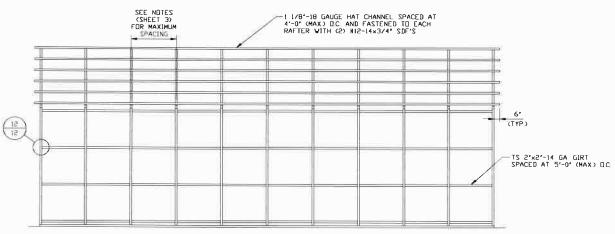
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#### **BOX EAVE RAFTER VERTICAL ROOF/SIDING**

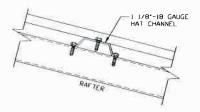


#### TYPICAL SECTION VERTICAL ROOF/SIDING

SCALE: NTS



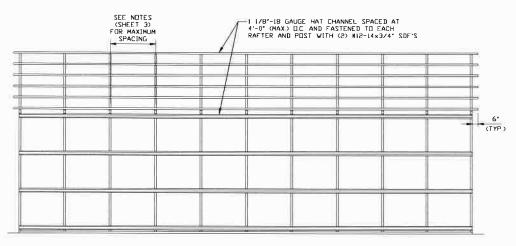
## TYPICAL FRAMING SECTION VERTICAL ROOF/SIDING SCALE: NTS



PANEL ATTACHMENT
(ALTERNATE FOR VERTICAL ROOF PANELS)
SCALE: NTS

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



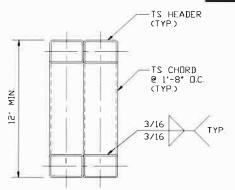
TYPICAL FRAMING SECTION VERTICAL ROOF/SIDING OPTION SCALE: NTS

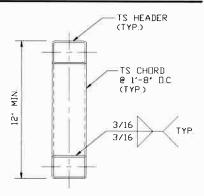
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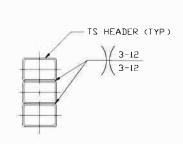
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	CHECKED BY: PDH	WILKESBORO, NC 28697 40'-0"x20'-0" RC I / II ENCLOSED STRUCTURE						
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	CLIENT: SBG	SHT. 14B	DVG. ND SK-	3	REV. 2			

#### RISK CATEGORY II SIDE WALL HEADER OPTIONS

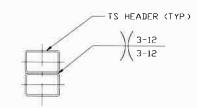






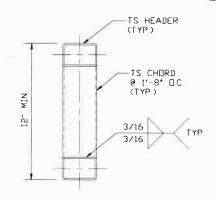
HEADER DETAIL FOR SPANS 14'-0" < T□ < 20'-0" SCALE: NTS

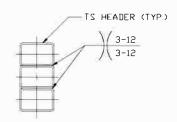
HEADER DETAIL FOR SPANS 11'-0" < T□ <u><</u> 14'-0" HEADER DETAIL FOR SPANS 8'-0" < TO < 11'-0"

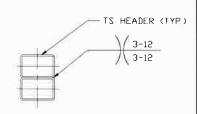


HEADER DETAIL FOR SPANSI 

#### **END WALL HEADER OPTIONS**





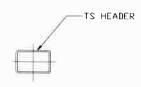


HEADER DETAIL FOR SPANS 10'-0" < T□ ≤ 16'-0" SCALE: NTS

HEADER DETAIL FOR SPANS 6'-0" < T□ ≤ 10'-0" SCALE: NTS

HEADER DETAIL FOR SPANS 16'-0" < T□ < 20'-0"

SCALE: NTS



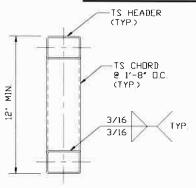
HEADER DETAIL FOR SPANS < 6'-0" SCALE: NTS

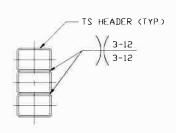
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	CLIENT: SBG	SHT. 15	DVG. ND: SK-3 RE		REV. 2		

#### **RISK CATEGORY I** SIDE WALL HEADER OPTIONS



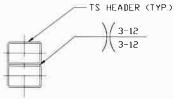


HEADER DETAIL FOR SPANS 11'-0' < TO ≤ 16'-0'

SCALE: NTS

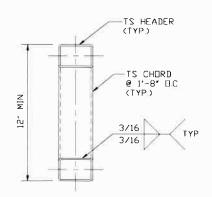
SPANS 8'-0" < T□ < 11'-0" SCALE: NTS

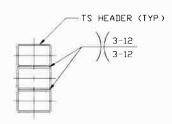
HEADER DETAIL FOR

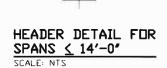


HEADER DETAIL FOR SPANSI \( \frac{9'-0'}{\text{GRDUND SNOW LOAD \( \left\) 35 PSF \( \text{TO \( \left\) 45 PSF \\
 \( \text{SCALE: NTS} \)

#### **END WALL HEADER OPTIONS**







TS HEADER

HEADER DETAIL FOR SPANS 16'-0" < T□ < 20'-0"

SCALE: NTS

HEADER DETAIL FOR SPANS 14'-0" < T□ < 16'-0" SCALE: NTS

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	CHECKED BY: PDH	WILKESBORO, NC 28697 40'-0"x20'-0" RC I / II ENCLOSED STI				
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