

STRUCTURAL DESIGN ENCLOSED BUILDING

MAXIMUM 30'-0" WIDE X 15'-0" EAVE HEIGHT-BOX EAVE AND BOW FRAME

31 December 2018 Revision 1 M&A Project No. 18196S/18362S

Prepared for:

Shed Central 3648 W. US Highway 421 Wilkesboro, NC 28697

Prepared by:

Moore and Associates Engineering and Consulting, Inc.

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401 S. Main St., Suite 200 Mt. Airy, NC 27030



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CHECKED BY: WSM		WILKESBORO, N 15'-0" ENCLOSEI		
PROJECT MGR: VSM	DATE: 12-31-18	SCALE: NTS	JOI	ND 181965/ 183625
CLIENT: SHED CENTRAL	SHT. 2	DWG. ND SK-3		REV. 1

INSTALLATION NOTES AND SPECIFICATIONS

- 1, DESIGN IS FOR MAXIMUM 30'-0" WIDE \times 15'-0" EAVE HEIGHT ENCLOSED STRUCTURES.
- 2. DESIGN WAS DONE IN ACCORDANCE WITH THE 2018 NORTH CAROLINA BUILDING CODE (2015 INTERNATIONAL BUILDING CODE).
- 3. DESIGN LOADS ARE AS FOLLOWS:

A) DEAD LOAD = 1.5 PSF B) LIVE LOAD = 12 PSF

- C) GROUND SNOW LOAD = 25 PSF (UNBALANCED SNOW LOADS DUE TO DRIFTING HAVE NOT BEEN EVALUATED).
- 4. 3-SECOND GUST ULTIMATE WIND SPEED (V_{ULT}) 105 TO 145 MPH (NOMINAL WIND SPEED 82 TO 112 MPH).
- 5. MAXIMUM RAFTER/COLUMN AND END COLUMN SPACING = 5'-0' (UNLESS NOTED OTHERWISE).
- 6. SIDEWALL COLUMNS AND ENDWALL COLUMNS ARE SIMILAR IN SIZE, UNLESS NOTED OTHERWISE.
- 7. RISK CATEGORY I.
- 8. WIND EXPOSURE CATEGORY B.
- 9. SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/2' x 2 1/2' 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) = 6 INCHES.
- 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.
- 13. ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6' OF EACH COLUMN.
- 14. STANDARD GROUND ANCHORS CONSIST OF #4 REBAR W/ WELDED NUT x 36' LONG IN SUITABLE SOIL CONDITIONS. OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USED IN UNSUITABLE SOILS AS NOTED.

 15. WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE:

SOIL SITE CLASS = D RISK CATEGORY I/II/III

I_E= 1.0 R= 3.25 V= CSM S_{DS}= 2.039

S_{DI}= 1.258

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PROJECT MGR VSM DATE 12-31-18 SCALE NTS JUB	ND 18196S/ 18362S
WILKESBORO, NC 286 CHECKED BY: VSM 30'-0"x15'-0" ENCLOSED STRI	
DRAVN BY: AM 3648 W. US HIGHWAY	421

BOX EAVE FRAME RAFTER STRUCTURE WINDOW (AS APPLICABLE) ---6' (TYP) -FLASHING



FLASHING-

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CLIENT: SHED CENTRAL	SHT. 3A	DWG. ND: SK-	3	REV. 1
PROJECT MGR: VSM	DATE: 12-31-18	SCALE: NTS	Ja	18362S 18362S
CHECKED BY: WSM		WILKESBORO, 15'-0" ENCLOSE		
DRAWN BY: AM	3	SHED CENT 648 W. US HIGH		′ 421

PERSONNEL DOOR
(AS APPLICABLE)

30'-0" MAXIMUM RAFTER SPAN (W)

BOW EAVE FRAME RAFTER STRUCTURE WINDOW (AS APPLICABLE) ROLL-UP DOOR — (AS APPLICABLE) PERSONNEL DOOR (AS APPLICABLE) FLASHING--FLASHING LENGTH VARIES DEPENDING ON NUMBER AND SPACING OF RAFTERS 30'-0' MAXIMUM RAFTER SPAN (W)

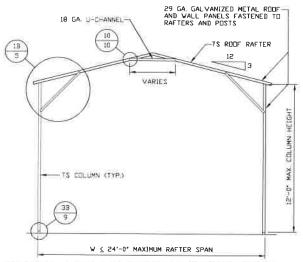
TYPICAL SIDE ELEVATION

TYPICAL END ELEVATION SCALE: NTS

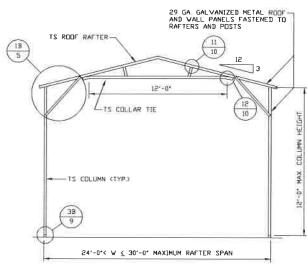
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	CLIENTI SHED CENTRAL	SHT. 3B	DVG. ND SK-3	REV. 1
-	PROJECT NGR: VSM	DATE: 12-31-18	SCALE: NTS	JEB ND 181965/ 183625
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	DRAWN BY: AM	36	SHED CENTR 48 W. US HIGHW	



TYPICAL RAFTER/COLUMN FRAME SECTION

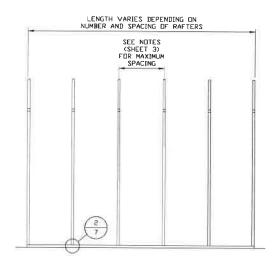


TYPICAL RAFTER/COLUMN FRAME SECTION SCALE: NTS

SHED CENTRAL 3648 W. US HIGHWAY 421 WILKESBORO, NC 28697

JUB ND 181965/ 183625

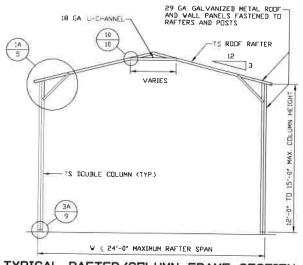
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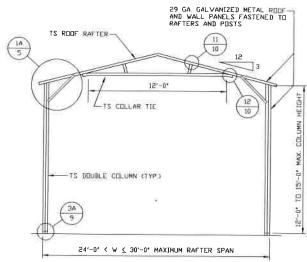
TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION SCALE: NTS

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н	MOORE AND ASSOCIATES	DRAWN BY: AM	36	48 W. US HIGHW	/AY 4	21	

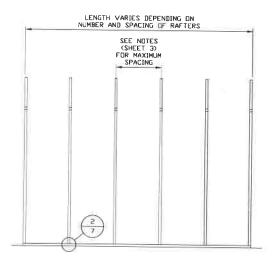
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TYPICAL RAFTER/COLUMN FRAME SECTION



TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS

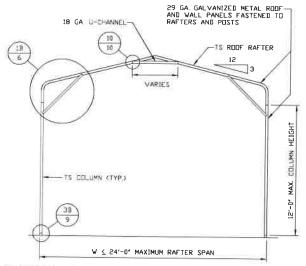


TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

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CHECKED BY: VSM					
PROJECT MGR: VSM	DATE: 12-31-18	SCALE: NTS	JCB ND 181965/ 183625		
CLIENT: SHED CENTRAL	SHT. 4A	DVG. ND SK-3	REV. 1		



TYPICAL RAFTER/COLUMN FRAME SECTION

29 GA. GALVANIZED METAL ROOF
AND WALL PANELS FASTENEII TO
RAFTERS AND POSTS

TS ROOF RAFTER

110

12

15'-0'

TS COLLAR TIE

110

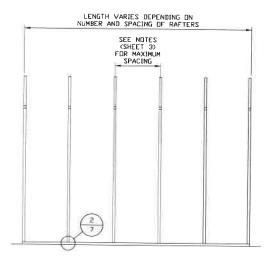
12

38

9

24'-0' (V (30'-0' MAXIMUM RAFTER SPAN

TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS

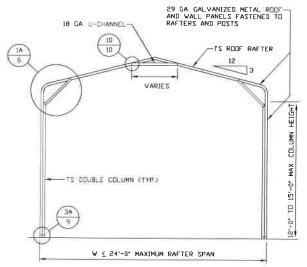


TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION SCALE: NTS

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TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS

29 GA GALVANIZED METAL ROOF
AND VALL PANELS FASTENED TO
RAFTERS AND POSTS

IS ROOF RAFTER

110

12 3

12'-0'

TS COLLAR TIE

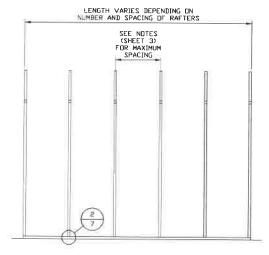
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12 3

A 9

24'-0' < V \(\) 30'-0' MAXIMUM RAFTER SPAN

TYPICAL RAFTER/COLUMN FRAME SECTION SCALE: NTS

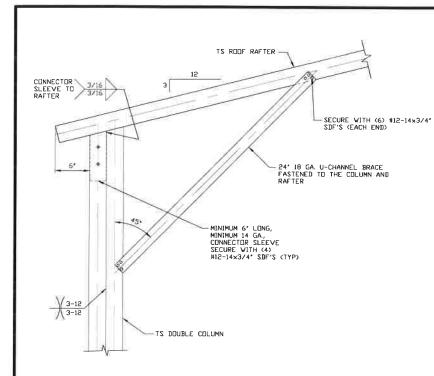


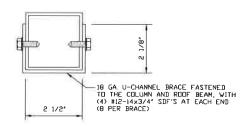
TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION SCALE: NTS

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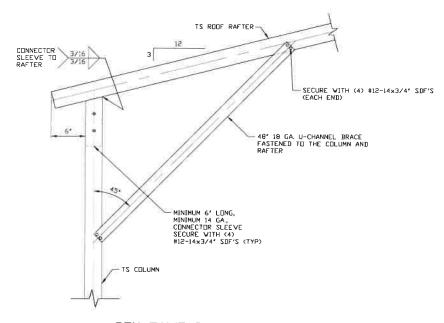
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PROJECT MGF		DATE: 12-31-18	SCALE: NTS	JEB ND 181965/ 183625	
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BRACE SECTION SCALE: NTS

BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 12'-0' < TO < 15'-0' SCALE: NTS



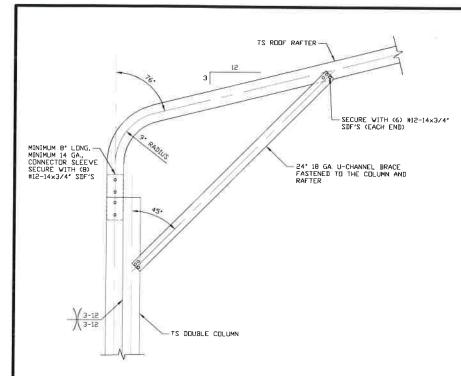
BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS ≤ 12'-0" SCALE: NTS

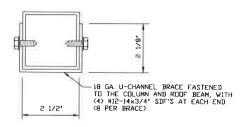
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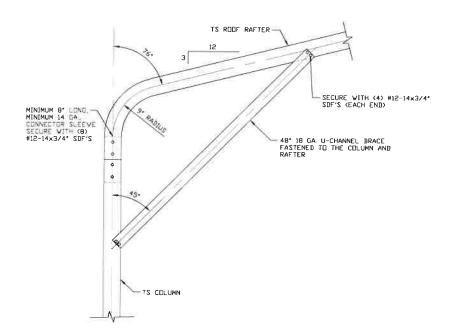
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CHECKED BY: VSN		697			
DRAWN BY: AM	3648 W. US HIGHWAY 421				





BRACE SECTION SCALE: NTS

BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 12'-0" < TO \(15'-0" SCALE: NTS



BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS ≤ 12'-0"

SCALE: NTS

1B

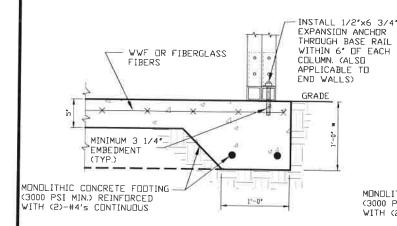
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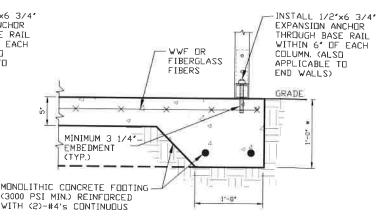
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PROJECT MGR VSM	DATE: 12-31-18	SCALE: NTS	JOB	ND 181965/ 183625		
CHECKED BY: VSH	WILKESBORO, NC 28697 30'-0"x15'-0" ENCLOSED STRUCTURI					
DRAWN BY: AM	3	SHED CENTRAL 3648 W. US HIGHWAY 421				

BASE RAIL ANCHORAGE OPTIONS





CONCRETE MONOLITHIC SLAB BASE RAIL ANCHURAGE

MINIMUM ANCHOR EDGE DISTANCE IS 4" * COURDINATE WITH LOCAL CODES/ORD.

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 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 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:

- 1. REINFORCEMENT IS BENT COLD.
 2. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS.
 3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT
- BE FIELD BENT

HELIX ANCHOR NOTES:

- 1. FOR VERY DENSE AND/OR CEMENTED SANDS, COARSE GRAVEL AND COBBLES, CALICHE, PRELDADED 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 3C' EMBEDMENT OR SINGLE 6' HELIX WITH MINIMUM
- 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" EMBEDMENT
- 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 6C' EMBEDMENT.

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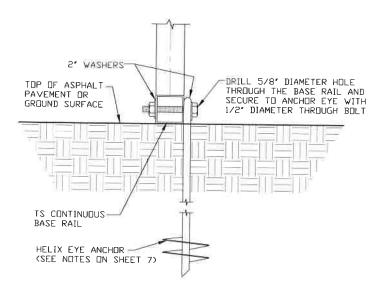
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CHECKED BY: WSM	WILKESBORO, NC 28697 30'-0"x15'-0" ENCLOSED STRUCT			
DRAWN BY: AM	SHED CENTRAL 3648 W. US HIGHWAY 421			

CONCRETE SLAB BASE RAIL ANCHORAGE 2B

SCALE: NTS MINIMUM ANCHOR EDGE DISTANCE IS 4". * COORDINATE WITH LOCAL CODES/ORD.

BASE RAIL ANCHORAGE OPTIONS



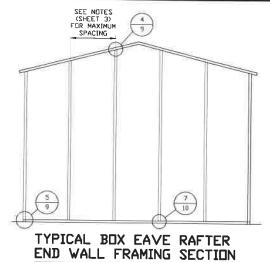
2C GROUND BASE HELIX ANCHORAGE

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_	PROJECT MGR: WSM	DATE: 12-31-18	SCALE: NTS	J03 ND 181	96S/ 18362S	
	CHECKED BY: WSM	WILKESBORO, NC 28697 30'-0"x15'-0" ENCLOSED STRUCTURE				
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BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



SCALE: NTS

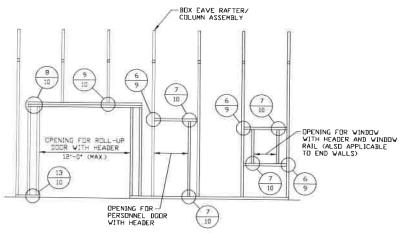
SEE NOTES
(SHEET 3)
FOR MAXIMUM
SPACING

DPENING FOR ROLL-UP
DDDR VITH HEADER
12"-0" (MAX)

TO PERSONNEL DIDOR
VITH HEADER
VITH HEADER

TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

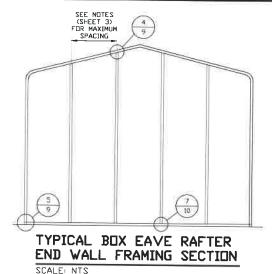
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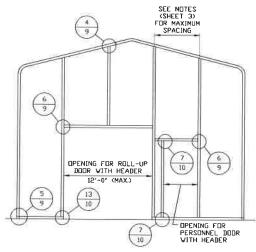
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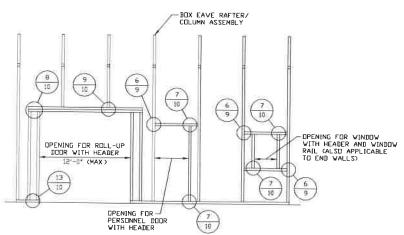
BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS





TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

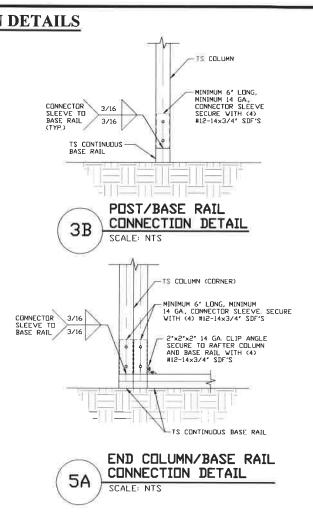
SCALE: NTS

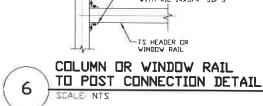
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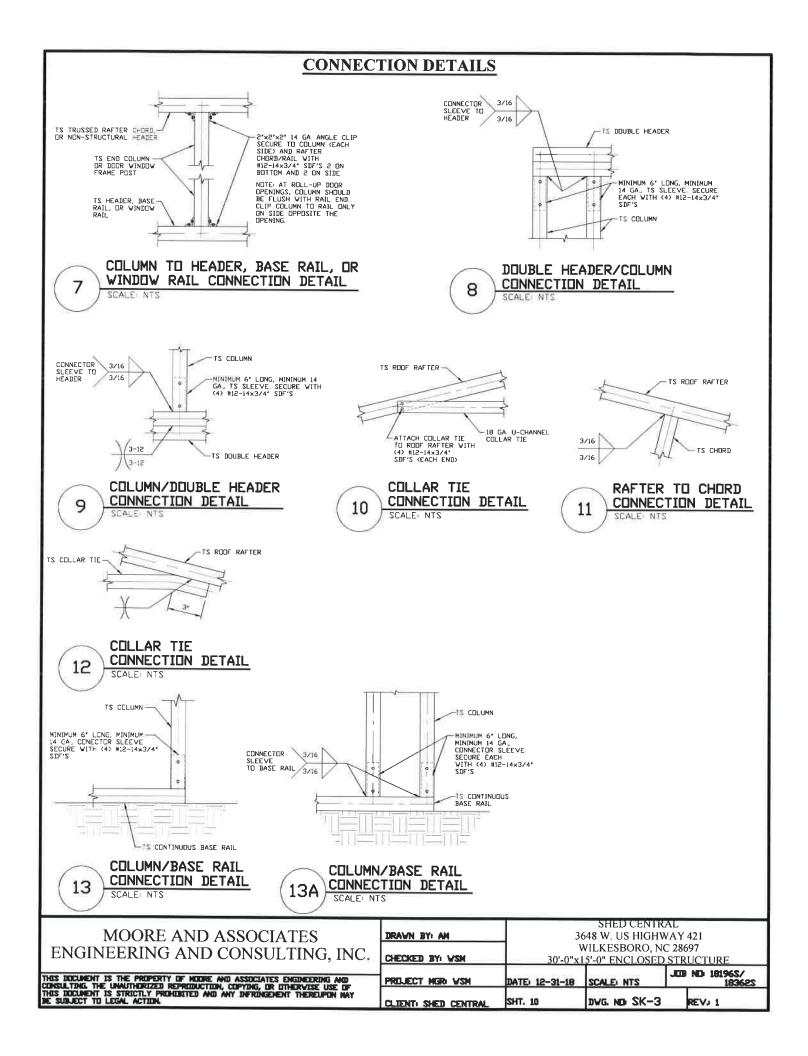
	DRAWN BY: AM		SHED CENT 648 W. US HIGH	WAY	
	CHECKED BY: WSM	2/22/22	WILKESBORO, N 15'-0" ENCLOSEI		
_	PROJECT MGR: VSM	DATE: 12-31-18	SCALE: NTS	JUB ND 18196S/ 18362S	
	CLIENT: SHED CENTRAL	SHT. 8A	DVG. ND SK-3	}	REV. 1

CONNECTION DETAILS TS DOUBLE COLUMN MINIMUM 6' LONG, MINIMUM 14 GA, CONNECTOR SLEEVE SECURE WITH (4) #12-14×3/4' SDF'S CONNECTOR SLEEVE TO BASE RAIL (TYP) 3/16 3/16 TS CONTINUOUS POST/BASE RAIL CONNECTION DETAIL 3A SCALE: NTS TS ROOF RAFTER 2'x2'x2' 14 GA ANGLE CLIP SECURE TO COLUMN AND RAFTER WITH #12-14x3/4' SDF'S 2 ON TOP AND 2 ON SIDE TS END COLUMN END COLUMN/RAFTER CONNECTION DETAIL 4 TS COLUMN (CORNER) MINIMUM 6' L⊡NG, MINIMUM 14 GA., CONECTOR SLEEVE. SECURE VITH (4) #12-14×3/4' SDF'S CONNECTOR 3/16 SLEEVE TO BASE RAIL 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 BASE RAIL END COLUMN/BASE RAIL CONNECTION DETAIL 5B SCALE: NTS TS COLUMN OR END COLUMN -2'x2'x2' 14 GA ANGLE CLIP SECURE TO COLUMN AND EITHER TOP OF HEADER, OR BOTTOM OF WINDOW RAIL WITH #12-14x3/4' SDF'S

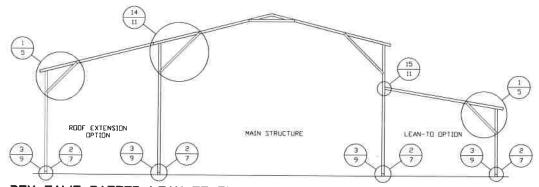




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HIS DOCUMENT IS STRICTLY PROHIBITED AND ANY INFRINGEMENT THEREUPON MAY E SUBJECT TO LEGAL ACTION.	and the second second second	T	JOB NO 18196S/ 18362S			

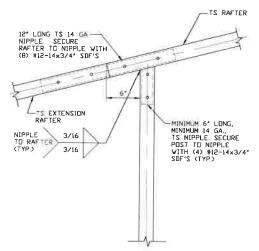


BOX EAVE RAFTER LEAN-TO OPTIONS

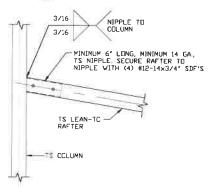


TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)

SCALE: NTS MAXIMUM WIDTH OF ROOF EXTENSION AND LEAN-TO OPTION IS 12'-0'.

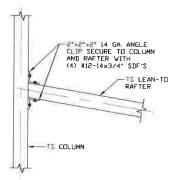


ROOF EXTENSION RAFTER/CORNER POST DETAIL FOR WIDTHS < 12'-0'



LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS & 12'-0'

15A



LEAN-TO RAFTER
TO RAFTER POST
CONNECTION DETAIL
FOR WIDTHS & 12'-0'

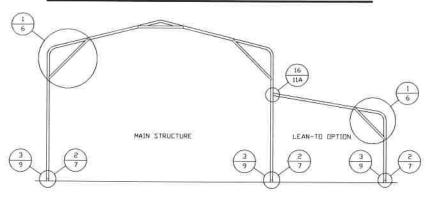
15B

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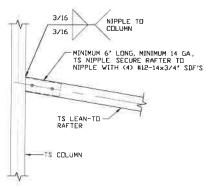
DRAWN BY: AM	SHED CENTRAL 3648 W. US HIGHWAY 421 WILKESBORO, NC 28697 30'-0"x15'-0" ENCLOSED STRUCTURE				
CHECKED BY: VSM					
PROJECT MGR: VSM	DATE: 12-31-18	SCALE NTS	_	ND 181965/	
CLIENTI SHED CENTRAL	SHT. 11	DWG. ND SK-3		REV. 1	

BOW EAVE RAFTER LEAN-TO OPTIONS



TYPICAL BOW EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION

SCALE: NTS MAXIMUM WIDTH OF LEAN-TO OPTION IS 12'-0'



LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS & 12'-0'

2"x2"x2" 14 GA ANGLE
CLIP SECURE TO COLUMN
AND RAFTER WITH
(4) #12-14x3/4" SDF'S
TS LEAN-TO
RAFTER

LEAN-TO RAFTER
TO RAFTER POST
CONNECTION DETAIL
FOR WIDTHS & 12'-0'

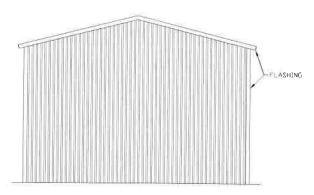
16B) SCALE NTS

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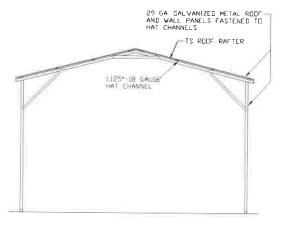
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CLIENT: SHETI CENTRAL	SHIT, 11A	DWG. ND SK-3		REV. 1
PROJECT HGR: VSH	DATE: 12-31-18	SCALE: NTS	JOB	ND 181965/ 183625
CHECKED BY: VSM	1	VILKESBORO, NO 5'-0" ENCLOSED		
DRAWN BY: AM	SHED CENTRA 3648 W. US HIGHW			

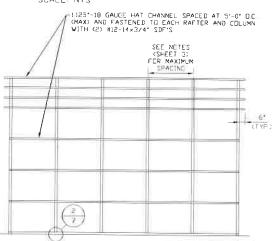
VERTICAL ROOF/SIDING OPTION



TYPICAL END ELEVATION VERTICAL ROOF/SIDING SCALE: NTS

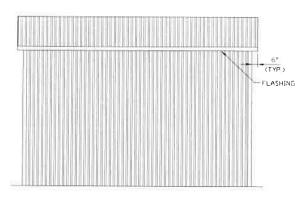


TYPICAL SECTION VERTICAL ROOF/SIDING OPTION

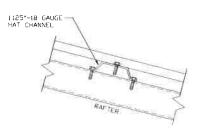


TYPICAL FRAMING SECTION VERTICAL ROOF/SIDING OPTION

SCALE NTS



TYPICAL SIDE ELEVATION VERTICAL ROOF/SIDING



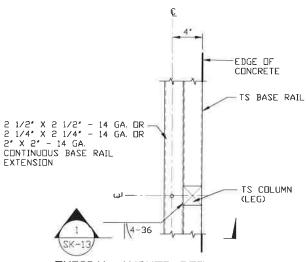
PANEL ATTACHMENT
(ALTERNATE FOR VERTICAL ROOF PANELS) SCALE NTS

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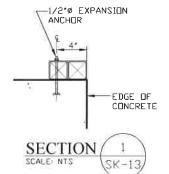
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	DRAWN BY: AM	3648 W. US HIGHWAY 421 WILKESBORO, NC 28697				
	CHECKED BY: WSM	\$25.00 m	30'-0"x15'-0" ENCLOSED STRUCTURE			
_	PROJECT MGR: WSM	DATE: 12-31-18	SCALE: NTS	JOI	18196S/ 18362S	
	CLIENT: SHED CENTRAL	SHT. 12	DVG. NO SK-3	3	REV. 1	

ADDITIONAL BASE RAIL ANCHORAGE OPTION



TYPICAL ANCHUR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE



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	CLIENT: SHED CENTRAL	SHT. 13	DAC NO 2K-3		REV. 1	
-	PROJECT NGR: VSN	DATE: 12-31-18	SCALE NTS	8	ND 181965/ 283625	
.s	CHECKED BY: VSM	1	/ILKESBORO, NO 5'-0" ENCLOSED			
	DRAWN BY: AM	3648 W. US HIGHWAY 421				