

STRUCTURAL DESIGN

ENCLOSED BUILDING

MAXIMUM 30'- 0" WIDE X 20'- 0" HEIGHT-BOX EAVE FRAME AND BOW FRAME

19 August 2021 Revision 9 M&A Project No. 16166S/17207S/17293S/18012S/18260S/19320S/21169S

Prepared for:

Eagle Carports 210 Airport Road Mount Airy, NC 27030

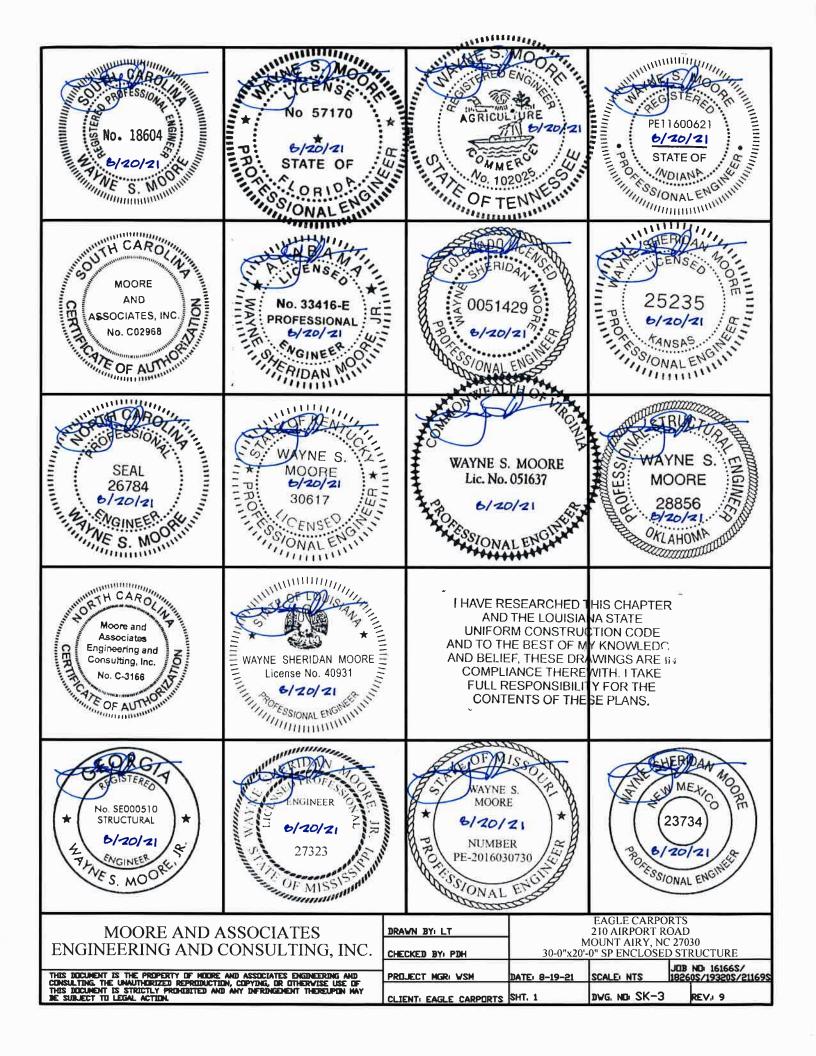
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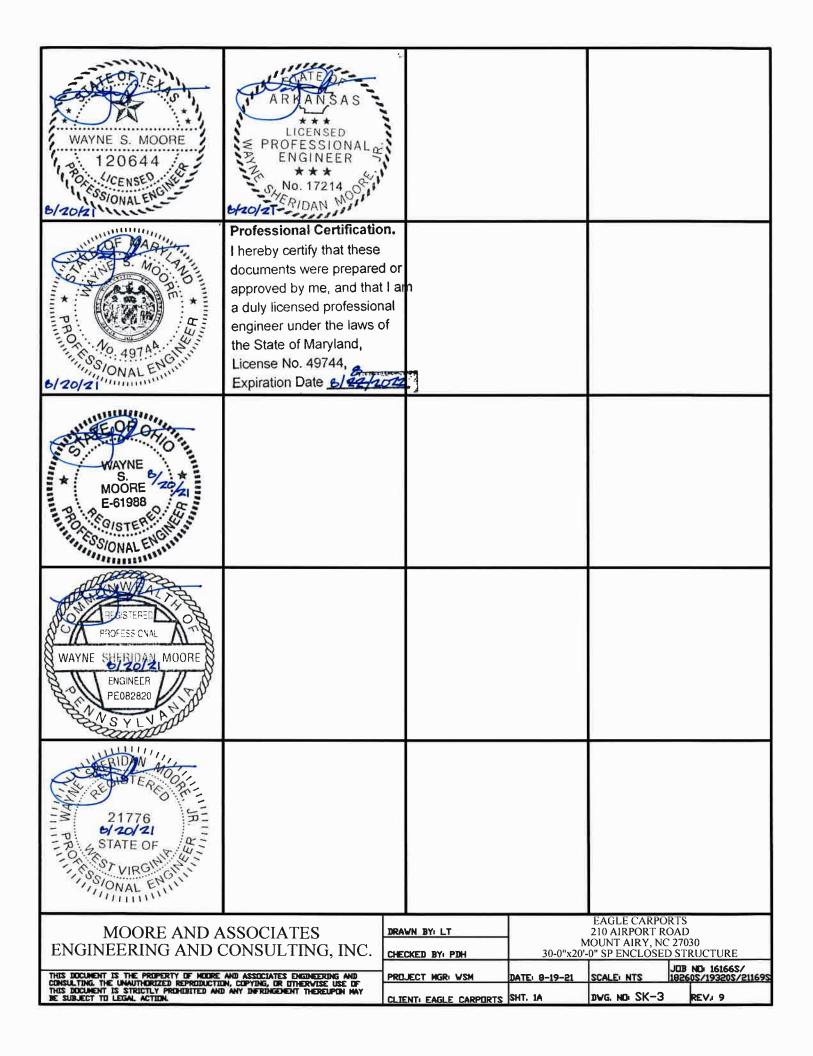
Moore and Associates Engineering and Consulting, Inc.

1009 East Avenue North Augusta, SC 29841

401 S. Main Street, Suite 200 Mount Airy, NC 27030







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INSTALLATION NOTES AND SPECIFICATIONS

- I DESIGN IS FOR MAXIMUM 30'-0" WIDE x 20'-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) DEAD LOAD = 15 PSF

 B) LIVE LOAD = 12 PSF
 - C) GROUND SNOW LOAD = 35 PSF
 - NOTE: UNBALANCED LOADING DUE TO SNOW DRIFTING FROM AN ADJACENT TALLER STRUCTURE HAS NOT BEEN EVALUATED.
- 4 3-SECOND GUST ULTIMATE WIND SPEED (VULT) 105 TO 140 MPH (NOMINAL WIND SPEED 81 TO 108 MPH)
- 5. MAXIMUM RAFTER/POST AND END POST SPACING = 5.0 FEET (UNLESS NOTED OTHERWISE)
- 6 END WALL COLUMNS (POSTS) ARE EQUIVALENT TO SIDE WALL POSTS IN SIZE AND SPACING UNLESS NOTED OTHERWISE
- 7 RISK CATEGORY I
- 8. WIND EXPOSURE CATEGORY B/C.
- 9 SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/2*x2 1/2*-14 GAUGE TUBE STEEL (TS) FRAMING MEMBERS
- 10 AVERAGE PANEL FASTENER SPACING ON-CENTERS = 10" DC (MAX)
- 11 FASTENERS CONSIST OF #12-14×3/4" 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
- 12 ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL AT OR WITHIN 6' OF EVERY RAFTER COLUMN
- 13 STANDARD GROUND ANCHORS (SOIL NAILS) CONSIST OF #4 REBAR W/ WELDED NUT x 36' LONG AND MAY BE USED IN SUITABLE SOILS OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USED IN UNSUITABLE SOILS AS NOTED
- 14 CONTRACTOR TO PROVIDE ADEQUATE BRACING FOR STRUCTURE SO THAT IT WILL BE STABLE DURING ALL STAGES OF CONSTRUCTION THE STRUCTURE AND FOUNDATION ARE DESIGNED FOR A COMPLETED CONDITION ONLY AND, THEREFORE, REQUIRE ADDITIONAL SUPPORT TO MAINTAIN STABILITY BEFORE COMPLETION.
- 15, WIND FURCES GOVERN OVER SEISMIC FURCES SEISMIC PARAMETERS ANALYZED ARE SOIL SITE CLASS = D

RISK CATEGORY I

R = 3.25 $I_E = 1.0$ $S_{DS} = 2.039$ Q $V = C_S W$

 $S_{D1} = 1258 g$

Jun23-1051

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LIST OF APPLICABLE BUILDING CODES

2018 INTERNATIONAL BUILDING CODE (IBC 2018)

2015 INTERNATIONAL BUILDING CODE (IBC 2015)

2012 INTERNATIONAL BUILDING CODE (IBC 2012)

2009 INTERNATIONAL BUILDING CODE (IBC 2009)

2006 INTERNATIONAL BUILDING CODE (IBC 2006)

BUILDING CODE 2015 OF ALABAMA (ADDRTS THE IBC 2015 WITH AMENDMENTS)

2020 FLORIDA BUILDING CODE, 7TH EDITION

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

INDIANA BUILDING CODE, 2014 EDITION (ADOPTS THE IBC 2012 WITH AMENDMENTS)

BUILDING CODE 2018 OF KANSAS (ADDPTS THE IBC 2018 WITH AMENDMENTS)

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

BUILDING CODE 2018 OF MARYLAND (ADOPTS THE IBC 2018 WITH AMENDMENTS)

BUILDING CODE 2015 OF NEW MEXICO (ADOPTS THE IBC 2015 WITH AMENDMENTS)

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

CHIC BUILDING CODE 2017
(ADCPTS THE 2015 WITH AMENDMENTS)

BUILDING CODE 2015 OF OKLAHOMA (ADOPTS THE IBC 2015 WITH AMENDMENTS)

BUILDING CODE 2015 OF PENNSYLVANIA (ADOPTS THE IBC 2015 WITH AMENDMENTS)

2018 SOUTH CAROLINA BUILDING CODE (ADOPTS THE IBC 2018 WITH AMENDMENTS)

BUILDING CODE 2012 OF TENNESSEE (ADOPTS THE IBC 2012 WITH AMENDMENTS)

BUILDING CODE OF THE TEXAS INDUSTRIALIZED HOUSING AND BUILDINGS PROGRAM (ADOPTS THE IBC 2015 WITH AMENDMENTS)

2018 VIRGINIA CONSTRUCTION CODE (ADOPTS THE IBC 2015 WITH AMENDMENTS)

BUILDING CODE 2015 OF WEST VIRGINIA (ADOPTS THE IBC 2015 WITH AMENDMENTS)

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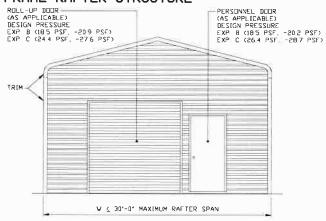
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-	PROJECT MGR: WSM	DATE: 8-19-21 SCALE: NTS 182605/193205/			
	CHECKED BY: PDH	MOUNT AIRY, NC 27030 30-0"x20'-0" SP ENCLOSED STRUCTURE			
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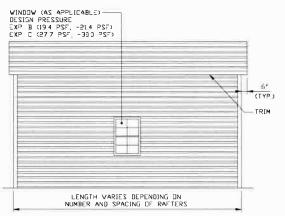
BOX EAVE FRAME RAFTER STRUCTURE PERSONNEL DOOR (AS APPLICABLE) DESIGN PRESSURE EXP B (185 PSF, -202 PSF) EXP C (264 PSF, -287 PSF) 6" TRIM

V ⊆ 30'-0' MAXIMUM RAFTER SPAN TYPICAL END ELEVATION

BOW FRAME RAFTER STRUCTURE

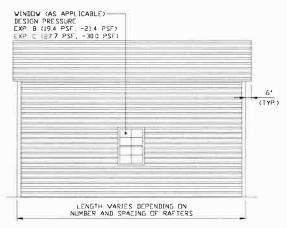


TYPICAL END ELEVATION
SCALE NTS



TYPICAL SIDE ELEVATION

SCALE: NTS



TYPICAL SIDE ELEVATION SCALE: NTS

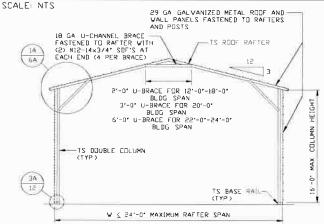
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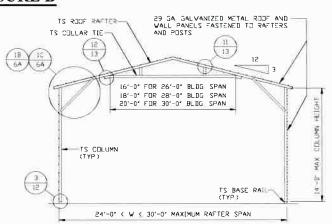
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PREJECT MGR: WSM	DATE: 8-19-21	SCALE: NTS		ND 161665/ 505/193205/211695	
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DRAWN BY: LT	EAGLE CARPORTS 210 AIRPORT ROAD				

EXPOSURE B 29 GA GALVANIZED METAL ROOF AND WALL PAVALS FASTENED TO RAFTERS AND POSTS 18 GA U-CHANNEL BRACE FASTENED TO RAFTER WITH (2) RIZ-14×3/4' SDF'S AT EACH END (4 PER BRACE) 12 3 2'-0' U-BRACE FUR 12'-0'-18'-0' BLDG SPAN 3'-0' U-BRACE FUR 20'-0' BLDG SPAN 6'-0' U-BRACE FUR 22'-0'-24'-0' BLDG SPAN TS BASE RAIL (TYP) V & 24'-0' MAXIMUM RAFTER SPAN

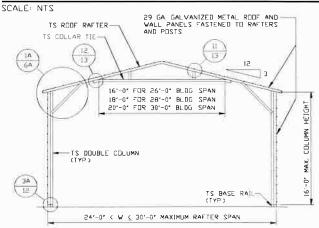
TYPICAL RAFTER/COLUMN END FRAME SECTION



TYPICAL RAFTER/COLUMN END FRAME SECTION



TYPICAL RAFTER/COLUMN END FRAME SECTION



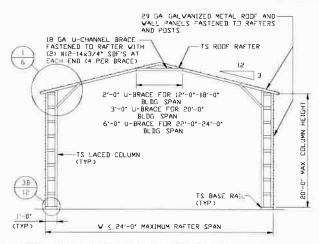
TYPICAL RAFTER/COLUMN END FRAME SECTION

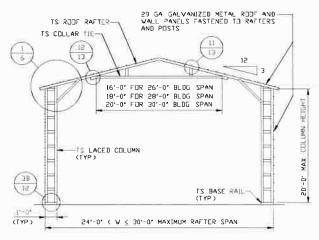
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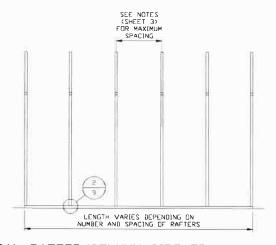
EXPOSURE B





TYPICAL RAFTER/COLUMN END FRAME SECTION SCALE NTS

TYPICAL RAFTER/COLUMN END FRAME SECTION SCALE NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION SCALE: NTS

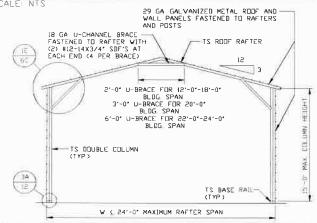
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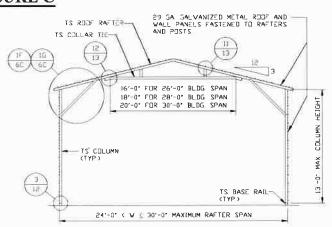
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		EAGLE CARPORTS				

29 5A SALVANIZED METAL RUDF AND WALL PANELS FASTENED TO RAFTERS AND POSTS 18 5A U-CHANNEL BRAZE FASTENED TO RAFTER WITH (2) #12-1432/4* SDF'S 4T EACH END (4 PER BRACE) 12 2'-0' U-BRACE FUR 12'-0'-18'-0' BLDG SPAN 3'-0' U-BRACE FUR 20'-0' BLDG SPAN 6'-0' U-BRACE FUR 22'-0'-24'-0' BLDG SPAN 6'-0' U-BRACE FUR 22'-0'-24'-0' BLDG SPAN TS BASE RAIL (TYP) V \(\) 24'-0' MAXIMUM RAFTER SPAN

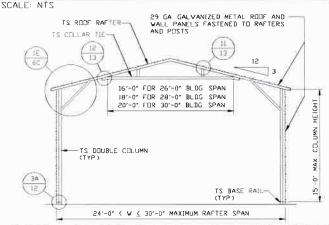
TYPICAL RAFTER/COLUMN END FRAME SECTION



TYPICAL RAFTER/COLUMN END FRAME SECTION



TYPICAL RAFTER/COLUMN END FRAME SECTION



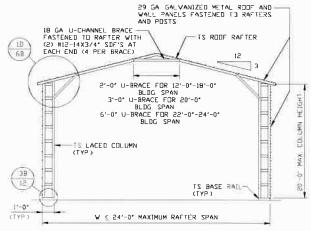
TYPICAL RAFTER/COLUMN END FRAME SECTION

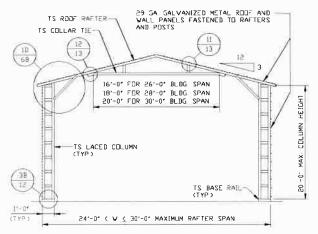
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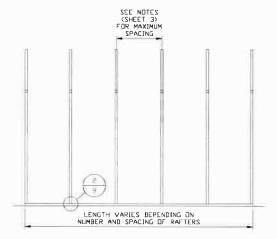
EXPOSURE C





TYPICAL RAFTER/COLUMN END FRAME SECTION

TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE NTS



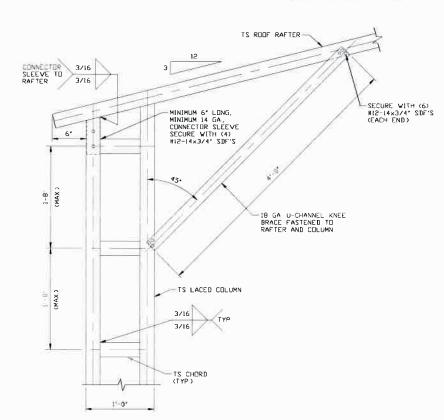
TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION SCALE NTS

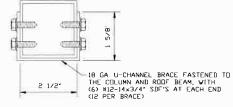
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EXPOSURE B



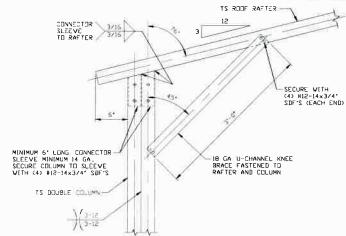


BRACE SECTION SCALE: NTS

	BOX EA	VE F	RAFTER	CI	JLUMN	CO	NNE	CT	IDN
1	DETAIL	FOR	HEIGH?	LS	16'-0"	<	TO	<u><</u>	20'-0"
	SCALE NTS	i i							

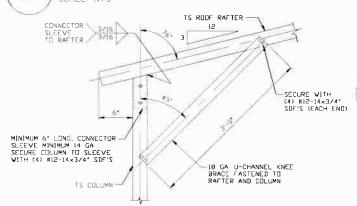
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EXPOSURE B



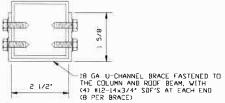
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 14'-0' < TO \(\) 16'-0' WITH 10 PSF < TO \(\) 35 PSF SNOW LOAD AND \(\) 105 MPH WIND SPEED (12'-0" < T□ ≤ 16'-0" WITH ≤ 10 PSF</p> SNOW LOAD AND 105 MPH < TO ≤ 140 MPH WIND SPEED>

1A SCALE: NTS



BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS < 12'-0' WITH 10 PSF < TO < 35 PSF SNOW LOAD ⟨≤ 11'-0" WITH ≤ 10 PSF SNOW LOAD AND 105 MPH < T□ < 140 MPH WIND SPEED

1C SCALE: NTS



BRACE SECTION

SCALE: NTS

TS ROOF RAFTER CONNECTOR 3/16
SLEEVE 3/16
TO RAFTER 3/16 HTIV 390332 (4) #12-14×3/4° SDF'S (EACH END) MINIMUM 6' LONG CONNECTOR SLEEVE MINIMUM 14 GA, SECURE COLUMN TO SLEEVE WITH (4) HL2-L4×3/4' SDF'S TS COLUMN TS 2 1/4×2 1/4-14 GA REINFORCING SECURE WITH #12-14×3/4' SDF'S @ MAX 6' OC ON BOTH SIDES OF COLUMN

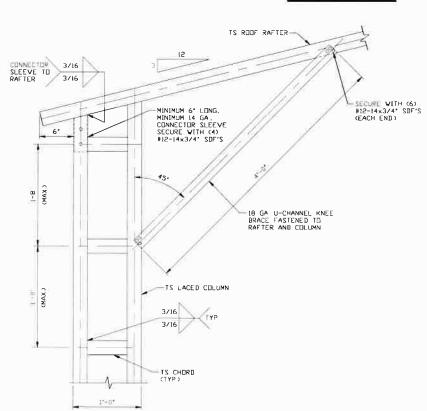
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 12'-0" < TO < 14'-0" WITH 10 PSF \langle TO \leq 35 PSF SNOW LOAD AND \leq 105 MPH WIND SPEED <11'-0' < T□ ≤ 12'-0' WITH ≤ 10 PSF</pre> SNOW LOAD AMD 105 MPH < TO < 140 MPH WIND SPEED>

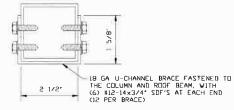
1B

		_			
		1 5/8			
2 1/2	TI	HE COLU	MN AND RO I×3/4" SDI	BRACE FASTENE DDF BEAM, WIT F'S AT EACH E	Ή.

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EXPOSURE C





BRACE SECTION SCALE: NTS

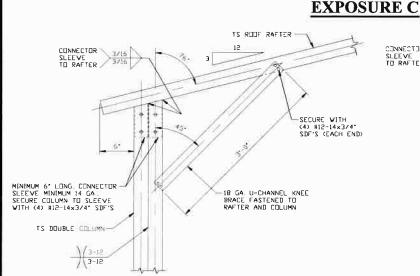
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 15'-0" < TO ≤ 20'-0" 1D

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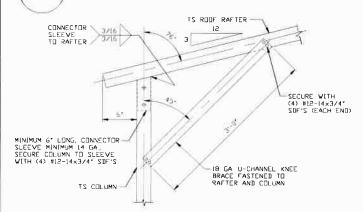
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DRAWN BY: LT		210 AIRPORT	ROAD

PROJECT MGR: WSN	DATE: 8-19-21	SCALE: NTS	185602\133502\511692
CLIENT: FAGLE CAL	PPRINTS SHT. 6B	DVG. ND SK-3	REV. 9



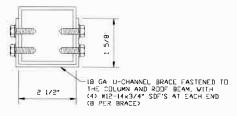
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS $13'-0' < TO \le 15'-0'$ WITH 10 PSF $< TO \le 35$ PSF SNOW LOAD AND ≤ 105 MPH WIND SPEED $<10'-0' < TO \le 15'-0'$ WITH ≤ 10 PSF SNOW LOAD AND 105 MPH $< TO \le 140$ MPH WIND SPEED)

1E SCALE: NTS



BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS \leq 11'-0" WITH 10 PSF < TO \leq 35 PSF SNOW LOAD $(\leq$ 9'-0" WITH \leq 10 PSF SNOW LOAD AND 105 MPH < TO \leq 140 MPH WIND SPEED

1G SCALE: NTS



BRACE SECTION

SCALE: NTS

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EAGLE CARPORTS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030
30-0"x20"-0" SP ENCLOSED STRUCTURE

PROLECT MGR: WSM DATE: 8-19-21 SCALE: NTS 18260S/19320S/21169

CLIENT: EAGLE CARPORTS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030

DATE: 8-19-21 SCALE: NTS 18260S/19320S/21169

CLIENT: EAGLE CARPORTS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030

SOUCHMENT STRUCTURE

PROLECT MGR: WSM DATE: 8-19-21 SCALE: NTS 18260S/19320S/21169

CLIENT: EAGLE CARPORTS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030

DATE: 8-19-21 SCALE: NTS 18260S/19320S/21169

CLIENT: EAGLE CARPORTS
210 AIRPORT ROAD
MOUNT AIRY, NC 27030

SOUCHMENT AIRPORT ROAD

ADDITION OF THE VISION AIRPORT ROAD

CHECKED BY: PDM 30-0"x20"-0" SP ENCLOSED STRUCTURE

PROLECT MGR: WSM DATE: 8-19-21 SCALE: NTS 18260S/19320S/21169

CLIENT: EAGLE CARPORTS
210 AIRPORT ROAD

MOUNT AIRY, NC 27030

SOUCHMENT AIRPORT ROAD

ADDITION OF THE VISION AIRPORT ROAD

CHECKED BY: PDM 30-0"x20"-0" SP ENCLOSED STRUCTURE

CONSULTANT AIRPORT ROAD

CHECKED BY: PDM 30-0"x20"-0" SP ENCLOSED STRUCTURE

CONSULTANT AIRPORT ROAD

CHECKED BY: PDM 30-0"x20"-0" SP ENCLOSED STRUCTURE

CONSULTANT AIRPORT ROAD

CHECKED BY: PDM 30-0"x20"-0" SP ENCLOSED STRUCTURE

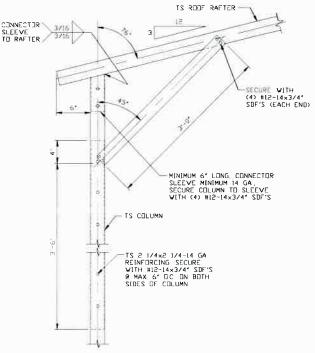
CLIENT: EAGLE CARPORTS

CHECKED BY: PDM 30-0"x20"-0" SP ENCLOSED STRUCTURE

CLIENT: EAGLE CARPORTS

CHECKED BY: PDM 30-0"x20"-0" SP ENCLOSED STRUCTURE

CLIENT: EAGLE CARPORTS



BDX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS $11'-0'' < TO \le 13'-0''$ WITH 10 PSF < TO ≤ 35 PSF SNOW LOAD AND ≤ 105 MPH WIND SPEED (9'-0" < TO $\le 10'-0''$ WITH ≤ 10 PSF SNOW LOAD AND 105 MPH < TO ≤ 140 MPH WIND SPEED)

1F) 30

SCALE: NT

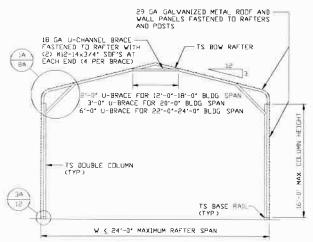
29 SA GALVANIZED METAL ROOF AND VALL PANELS FASTENED TO RAFTERS AND POSTS 18 GA U-CHANNEL BRACE FASTENED TO RAFTER WITH (2) MI2-14x3/4' SDF'S AT EACH END (4 PER BRACE) 2'-0" U-BRACE FOR 12'-0"-18'-0" BLDG SPAN 6'-0" U-BRACE FOR 22'-0"-24'-0" BLDG SPAN 6'-0" U-BRACE FOR 22'-0"-24'-0" BLDG SPAN TS BASE RAIL (TYP) V & 24'-0" MAXIMUM RAFTER SPAN

TS BOW RAFTER VALL DAYERS FASTENED TO RAFTERS AND POSTS 18 '10' FOR 26'-0' BLDG SPAN 18'-0' FOR 28'-0' BLDG SPAN 20'-0' FOR 30'-0' BLDG SPAN 17S COLLUMN (TYP) TS BASE RAIL TS BASE RAIL

TYPICAL RAFTER/COLUMN END FRAME SECTION

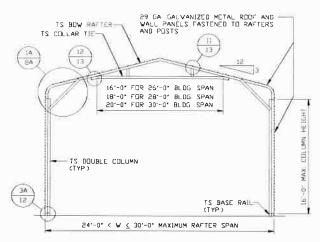
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE NTS

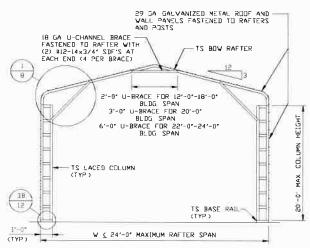


TYPICAL RAFTER/COLUMN END FRAME SECTION

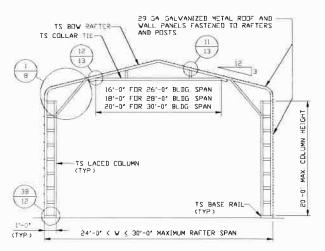
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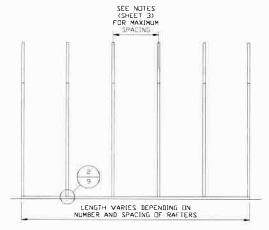
EXPOSURE B



TYPICAL RAFTER/COLUMN END FRAME SECTION



TYPICAL RAFTER/COLUMN END FRAME SECTION



TYPICAL RAFTER/COLUMN FRAMING SIDE SECTION

SCALE NTS

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EXPOSURE C 29 54 SALVANIZED METAL ROOF AND WALL PANELS FASTENED TO RAFTERS AND POSTS. 18 GA U-CHANNEL BRACE FASTENED TO RAFTER WITH (2) #12-14x3/4" SDF'S AT EACH END (4 PER BRACE) TS BOW RAFTER 15 2'-0' U-BRACE FOR 12'-0'-18'-0' BLDG SPAN 3'-0' U-BRACE FOR 20'-0' BLDG SPAN 6'-0' U-BRACE FOR 22'-0'-24'-0' BLDG SPAN CD, UMN TS COLUMN 3 TS BASE RAIL-W ≤ 24'-0' MAXIMUM RAFTER SPAN

29 GA SALVANIZED METAL ROOF AND MALL PANELS FASTENED TO RAFTERS AND POSTS TS BOW RAFTER TS COLLAR TH-11 12 16'-0' FDR 26'-0' BLDG SPAN 18'-0" FOR 28'-0" BLDG SPAN 20'-0" FOR 30'-0" BLDG SPAN COLUMN HEIGH TS COLUMN ΑAX 3 12 ò TS BASE RAIL 13 24'-0' (W < 30'-0' MAXIMUM RAFTER SPAN

TYPICAL RAFTER/COLUMN END FRAME SECTION

TYPICAL RAFTER/COLUMN END FRAME SECTION

29 GA GALVANIZED METAL ROOF AND WALL PANELS FASTENED TO RAFTERS AND POSTS 18 GA U-CHANNEL BRACE FASTENED TO RAFTER WITH (2) #12-14x3/4" SDF'S AT EACH END (4 PER BRACE) TS BOW RAFTER 2'-0' U-BRACE FOR 12'-0'-18'-0' BLDG SPAN 6'-0' U-BRACE FOR 20'-0' BLDG SPAN 6'-0' U-BRACE FOR 22'-0'-24'-0' BLDG SPAN - TS DOUBLE COLUMN MAX (AE) TS BASE RAIL-

MARZ SETTAS MUMENTANT "C-'45 2 W TYPICAL RAFTER/COLUMN END FRAME SECTION

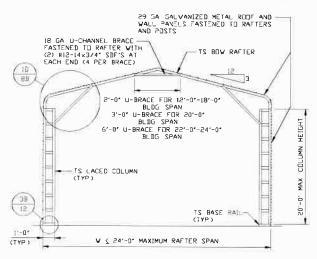
29 GA GALVANIZED METAL ROOF AND VALL PANELS FASTENED TO RAFTERS AND POSTS TS BOW RAFTER-TS COLLAR TIE (11) 15 16'-0" FOR 26'-0" BLDG SPAN 18'-0' FOR 28'-0' BLDG SPAN 20'-0' FOR 30'-0' BLDG SPAN COL UMN TS DOUBLE COLUMN MAX (3A 1≥ 15.-0, TS BASE PAIL 24'-0" < ₩ < 30'-0" MAXIMUM RAFTER SPAN

TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE NTS

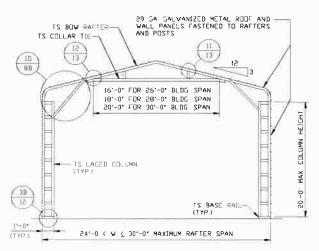
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EXPOSURE C



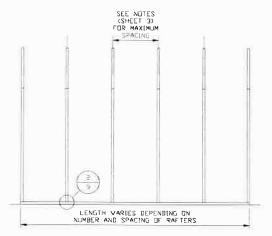
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE NTS



TYPICAL RAFTER/COLUMN FRAMING SIDE SECTION

SCALE: NTS

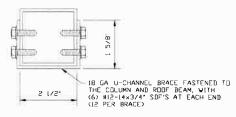
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EXPOSURE B TS BOW RAFTER SECURE WITH (6) #12-14x3/4° SDF'S (EACH END) MINIMUM 7' LONG MINIMUM 14 GA. CONNECTOR SLEEVE SECURE WITH (8) H12-14×3/4' SDF'S TS CHERD LIB GA U-CHANNEL KNEE BRACE FASTENED TO RAFTER AND COLUMN (MAX)

TS LACED COLUMN

3/16

3/16



BRACE SECTION

BOW RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 16'-0" < TO < 20'-0" 1

1-0-

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INT AIRY, NC 27030 SP ENCLOSED STRUCTURE JUB ND 16166S/ 18260S/19320S/21169S LE NTS THIS DUCUMENT IS STRUCTLY PROHUBITED AND ANY INFRINGEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION. CLIENT: EAGLE CARPORTS SHT. 8 DWG. ND SK-3 REV. 9

TS BOW PATTER THU SECURE WITH (4) #12-L4x3/4* SDF'S (EACH END) /5 18 GA U-CHANNEL KNEE BRACE FASTENED TO RAFTER AND COLUMN MINIMUM 7' LONG, CONNECTOR SLEEVE MINIMUM 14 GA, SECUSE COLUMN AND RAFTER TO SLEEVE WITH (8) #12-14×3/4' SDF'S

BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 14'-0' < TO \(\) 16'-0' WITH 10 PSF < TO \(\) 35 PSF SNOW LOAD AND \(\) 105 MPH WIND SPEED (12'-0' < TO \(\) 16'-0' WITH \(\) 10 PSF SNOW LOAD AND 105 MPH < TO ≤ 140 MPH WIND SPEED>

TS BOW RATTER HTW THE SECURAL (4) #12-14x3/4" (5) STORE (5) -18 GA U-CHANNEL KNEE BRACE FASTENED TO RAFTER AND COLUMN -MINIMUM 7' LONG, CONNECTOR SLEEVE MINIMUM 14 GA SECURE COLUMN AND RAFTER TO SLEEVE WITH (8) #12-14x3/4" SDF'S

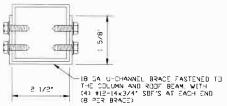
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS < 12'-0' WITH 10 PSF < TO < 35 PSF SNOW LOAD ⟨≤ 11'-0' WITH ≤ 10 PSF SNOW LOAD AND 105 MPH < T□ < 140 MPH WIND SPEED

1C

TS COLUMN

TS BBBBB -

1A

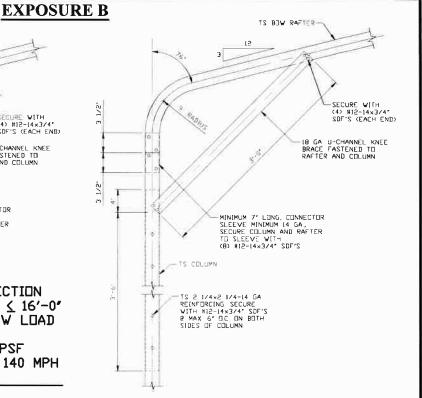


BRACE SECTION

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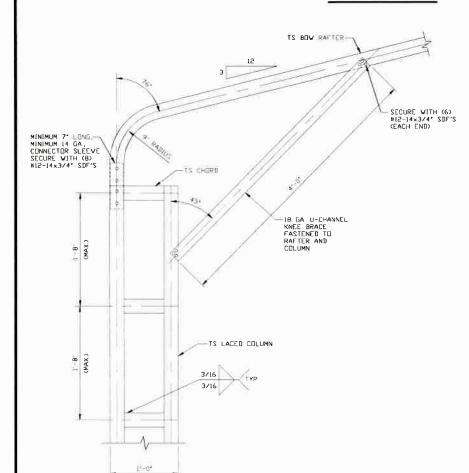
FAGLE CARPORTS 210 AIRPORT ROAD DRAWN BY: LT MOUNT AIRY, NC 27030 CHECKED BY: PDH 30-0"x20'-0" SP ENCLOSED STRUCTURE JOB NO: 161665/ 182602/193202/211692 SCALE: NTS PROJECT MGR: VSM DATE: 8-19-21 CLIENTI EAGLE CARPORTS SHT. BA DWG. NO SK-3 REV. 9

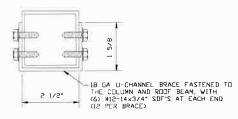


BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 12'-0' < TO \(\) 14'-0' WITH 10 PSF < TO \(\) 35 PSF SNOW LOAD AND \(\) 105 MPH WIND SPEED <11'-0' < T□ < 12'-0' WITH < 10 PSF</pre> SNOW LOAD AMD 105 MPH < TO ≤ 140 MPH WIND SPEED>

1B

EXPOSURE C





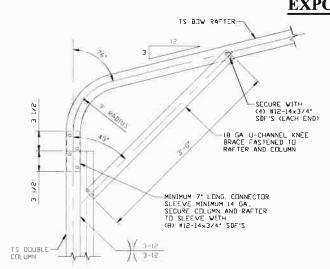
BRACE SECTION

BOW EAVE RAFTER COLUMN CONNECTION
DETAIL FOR HEIGHTS 15'-0' < TO < 20'-0"

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	CLIENT: EAGLE CARPORTS	SHT. 8B	DWG. NO: SK-3	REV. 9			
	PROJECT MGR: VSM	DATE: 8-19-21		182602/193202/211692 182602/193202/211692			
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	DRAWN BY: LT	EAGLE CARPORTS 210 AIRPORT ROAD					



BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS $13'-0'' < TO \le 15'-0''$ WITH 10 PSF $< TO \le 35$ PSF SNOW LOAD AND ≤ 105 MPH WIND SPEED $(10'-0'' < TO \le 15'-0''$ WITH ≤ 10 PSF SNOW LOAD AND 105 MPH $< TO \le 140$ MPH WIND SPEED)

SCALE NTS

TS BDV RAFTER

SECURE VITH

(4) B12-14x3/4'
SDF'S (EACH END)

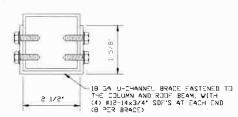
18 GA U-CHANNEL KNEE
BRACE FASTENED TO
RAFTER AND COLUMN

TS COLUMN 7' LONG, CONNECTOR
SLEEVE MINIMUM 14 GA.
TO SLEEVE WITH
(9) B12-14x3/4' SDF'S

1E

1G

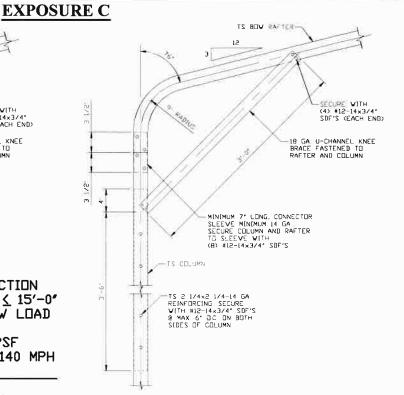
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS \le 11'-0" WITH 10 PSF < TO \le 35 PSF SNOW LOAD $(\le$ 9'-0" WITH \le 10 PSF SNOW LOAD AND 105 MPH < TO \le 140 MPH WIND SPEED



BRACE SECTION

SCALE: NTS

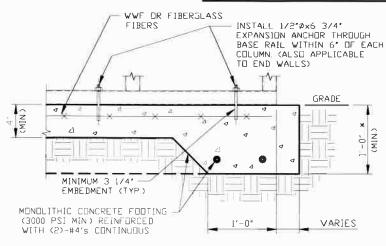
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BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS $11'-0'' < TO \le 13'-0''$ WITH 10 PSF $< TO \le 35$ PSF SNOW LOAD AND ≤ 105 MPH WIND SPEED $(9'-0'' < TO \le 10'-0''$ WITH ≤ 10 PSF SNOW LOAD AND 105 MPH $< TO \le 140$ MPH WIND SPEED)

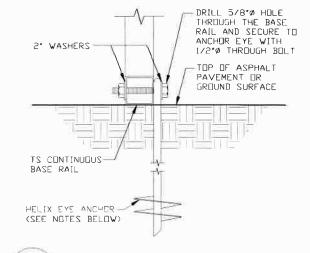
SCALE N

BASE RAIL ANCHORAGE OPTIONS



CONCRETE MONOLITHIC SLAB BASE RAIL ANCHURAGE

MINIMUM ANCHOR EDGE DISTANCE IS 4° * COORDINATE WITH LOCAL BUILDING CODES/ORD REGARDING REQUIRED FOOTING DEPTH.



GROUND BASE HELIX ANCHORAGE

SCALE NTS (CAN BE USED FOR ASPHALT COORDINATE WITH LOCAL CODES/ORD REGARDING REQUIRED ANCHOR 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 OF 3,000 PSI AT 28 DAYS

COVER OVER REINFORCING STEEL:

FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACT-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

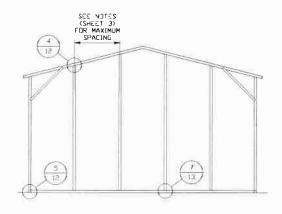
- THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS
 REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT
- BE FIELD BENT

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° 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 63° EMBEDMENT

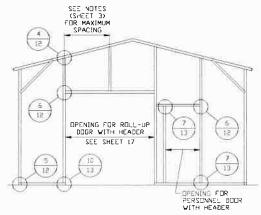
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ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH		0" SP ENCLOSED	
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BOX EAVE RAFTER END WALL AND SIDE WALL FRAMING SECTIONS



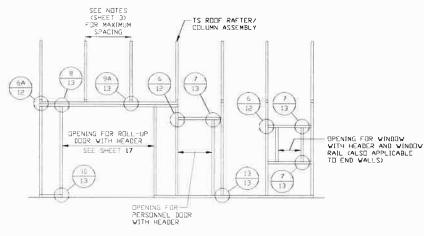
TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE NTS



TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE NTS



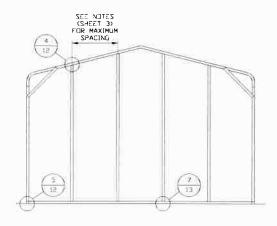
TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE NTS

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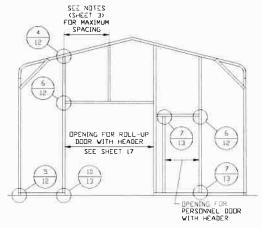
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PROJECT MGR: VSM CLIENT: EAGLE CARPORTS	DATE: 8-19-21	SCALE: NTS	1826	ND: 16166S/ 50S/19320S/21169S REV. 9	

BOW RAFTER END WALL AND SIDE WALL FRAMING SECTIONS



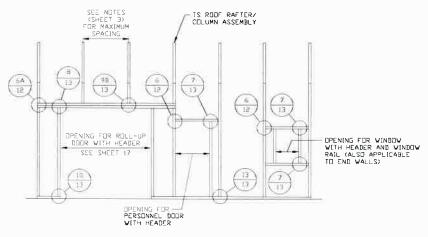
TYPICAL BOW RAFTER END WALL FRAMING SECTION

SCALE NTS



TYPICAL BOW RAFTER END WALL OPENINGS FRAMING SECTION

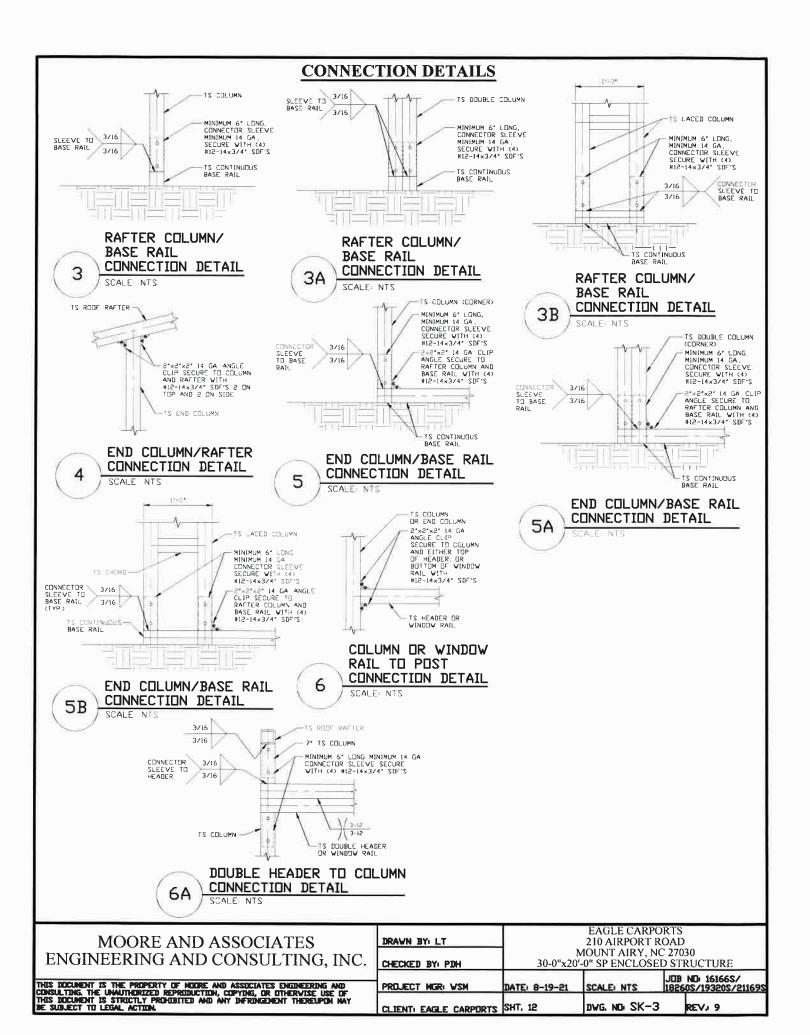
SCALE NTS

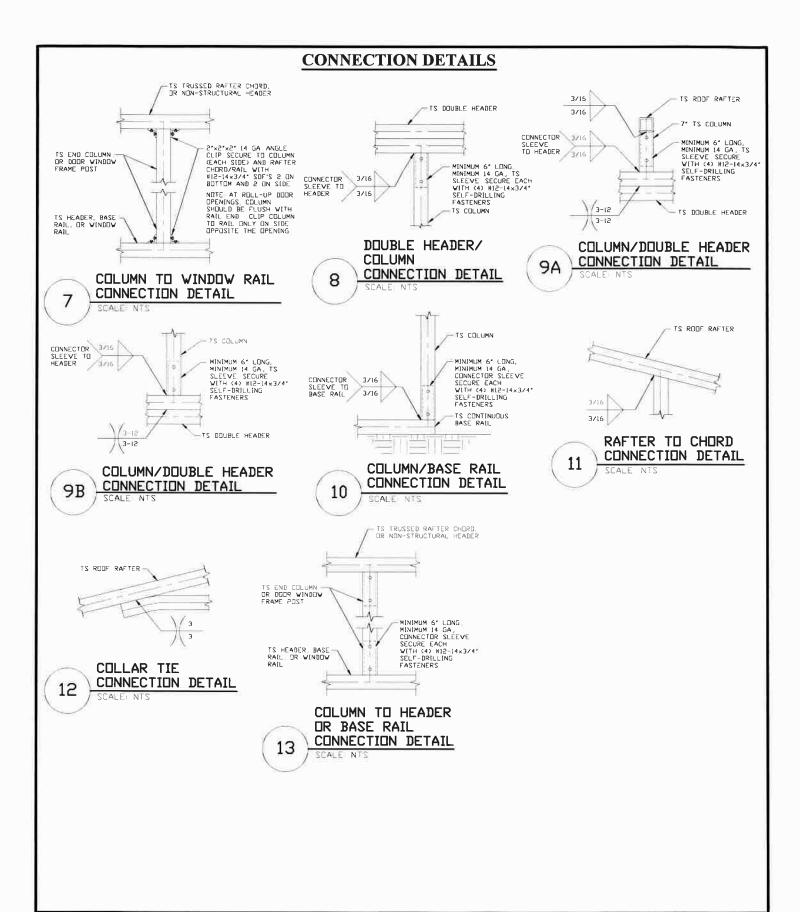


TYPICAL BOW RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE NTS

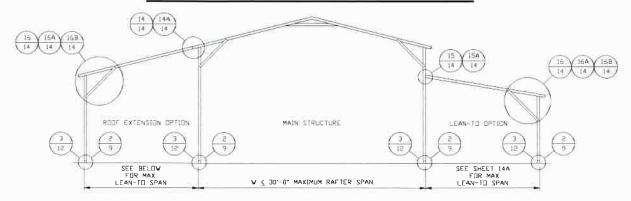
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BOX EAVE RAFTER LEAN-TO OPTIONS



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

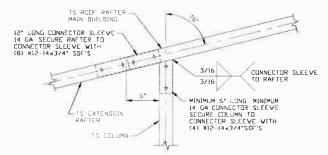
SCALE NTS

MAXIMUM WIDTH DF SINGLE MEMBER (RAFTER AND COLUMN) ROOF EXTENSION AND LEAN-TO IS 12'-0'
MAXIMUM WIDTH OF DOUBLE MEMBER (RAFTER AND COLUMN) ROOF EXTENSION AND LEAN-TO IS 15'-0'
MAXIMUM WIDTH OF DOUBLE MEMBER (RAFTER AND COLUMN) ROOF EXTENSION AND LEAN-TO IS 15'-0'
MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE LACED COLUMNS FOR EAVE HEIGHTS
16'-0' < TO < 20'-0' FOR EXPOSURE B AND 15'-0' < TO < 20'-0' FOR EXPOSURE C.

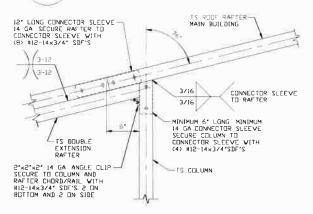
MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE DOUBLE COLUMNS FOR EAVE HEIGHTS
14'-0' < TO < 16'-0' FOR EXPOSURE B AND 13'-0' < TO < 15'-0' FOR EXPOSURE D.

MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE SINGLE COLUMNS WITH INSERTS FOR EAVE HEIGHTS 11'-0' < TO < 14'-0' FOR EXPOSURE B AND 9'-0' < TO < 13'-0' FOR EXPOSURE C.

MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE SINGLE COLUMNS FOR EAVE HEIGHTS
2 11'-0' FOR EXPOSURE B AND < 9'-0' FOR EXPOSURE C.



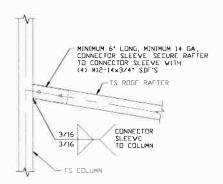
SIDE EXTENSION RAFTER/ COLUMN DETAIL FOR RAFTER SPANS ≤ 12'-0" 14





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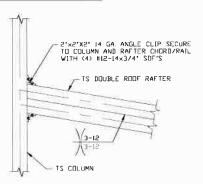
BOX EAVE RAFTER LEAN-TO OPTIONS



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

NOTE ROOF PITCH OF 2:12 AND 1:12 ARE ADEQUATE FOR LEAN-TO RAFTER

15



LEAN-TO RAFTER TO RAFTER
COLUMN CONNECTION DETAIL

FOR RAFTER SPANS 12'-0" < TO < 15'-0"

NOTE: ROOF PITCH OF 212 AND 1:12 ARE ADEQUATE FOR LEAN-TO RAFTER

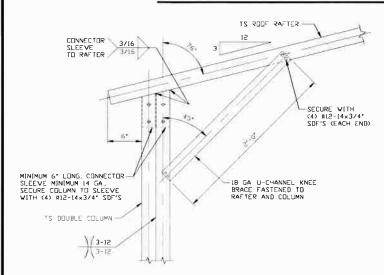
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	CLIENT: EAGLE CARPORTS	SHT. 14A	DWG. NO: SK-3		REV: 9		

EAGLE CARPORTS

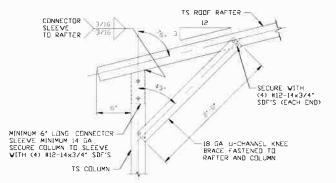
BOX EAVE RAFTER LEAN-TO OPTION - EXPOSURE B

16A



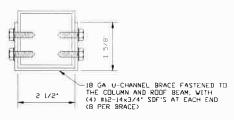
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 15'-0' < TO < 16'-0'

SCALE NTS HORSE BARN OPTION (REQUIRES A LEAN-TO ON BOTH SIDES OF THE MAIN BUILDING)



BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS ≤ 14'-0"

SCALE: NTS HORSE BARN OPTION (REQUIRES A LEAN-TO ON BOTH SIDES OF THE MAIN BUILDING)



BRACE SECTION

SCALE: NTS

16B

UNNECTUR 3/16 LEEVE 3/16	12 SODE SAFTES
6.	SECURE WITH (4) HI2-14x3/4* SDF'S (EACH END) 18 GA U-CHANNEL KNEE BRACE FASTENED TO RAFTER AND COLUMN
4	MINIMUM 6" LONG, CONNECTOR SLEEVE MINIMUM 14 GA, SECURE COLUMN TO SLEEVE WITH (4) #12-14×3/4" SDF'S
9 - 0	TS 2 L/4×2 L/4-14 GA REINFORCING SECURE WITH #12-14×3/4* SDF'S 2 MAX 10* IC ID N BOTH SIDES OF COLUMN
<u>, </u>	

BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 14'-0" < TO < 15'-0"

SCALE NTS HORSE BARN OPTION (REQUIRES A LEAN-TO ON BOTH SIDES OF THE MAIN BUILDING)

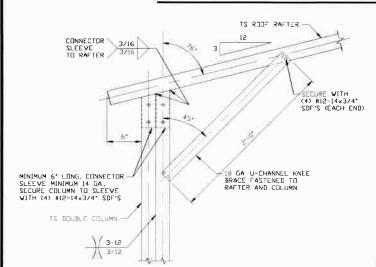
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				JOB	ND 16166S/		
Ţ,	PROJECT MGRI WSM	DATE: 8-19-21	SCALE: NTS	1826	269112\202661\20		
	CLIENT: FAGLE CARPURTS	SHT. 14B	DWG, NO SK-3		REV₁9		

BOX EAVE RAFTER LEAN-TO OPTION - EXPOSURE C

16D



BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 13'-0" < TO ≤ 16'-0"

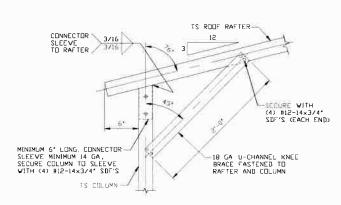
SCALE: NTS HORSE BARN OPTION (REQUIRES A LEAN-TO ON BOTH SIDES OF THE MAIN BUILDING)

18 GA U-CHANNEL BRACE FASTENED TO
THE COLUMN AND RODE BEAM, WITH
(4) #12-14x3/4* SDF'S AT EACH END
(8) PER BRACE)

BRACE SECTION

SCALE: NTS

16C



BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS < 13'-0"

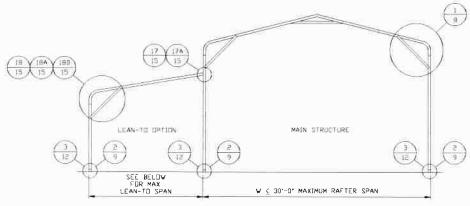
SCALE: NIS HDRSE BARN OPTION (REQUIRES A LEAN-TO ON BOTH SIDES OF THE MAIN BUILDING)

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		EAGLE CARPORTS					
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] N	MOUNT AIRY, NC 27030				
	CHECKED BY: PDH	30-0"x20'-0" SP ENCLOSED STRUCTURE					
				JOB	ND 16166S/		
7	PROJECT MGR: VSM	DATE: 8-19-21	SCALE: NTS		05/193205/211695		
	CLIENT: EAGLE CARPORTS	SHT. 14C	DWG. NO SK-3		REV. 9		

BOW RAFTER LEAN-TO OPTION



TYPICAL BOW RAFTER LEAN-TO OPTION FRAMING SECTION

SCALE NTS

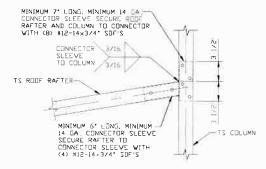
MAXIMUM WIDTH OF SINGLE MEMBER (RAFTER AND COLUMN) ROOF EXTENSION AND LEAN-TO IS 12'-0'
MAXIMUM WIDTH OF DOUBLE MEMBER (RAFTER AND COLUMN) ROOF EXTENSION AND LEAN-TO IS 15'-0'
MAXIMUM WIDTH OF DOUBLE MEMBER (RAFTER AND COLUMN) ROOF EXTENSION AND LEAN-TO IS 15'-0'
MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE LACED COLUMNS FOR EAVE HEIGHTS
16'-0' < TO < 20'-0' FOR EXPOSURE B AND 15'-0' < TO < 20'-0' FOR EXPOSURE C

MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE DOUBLE COLUMNS FOR EAVE HEIGHTS
14'-0' < TO < 16'-0' FOR EXPOSURE B AND 13'-0' < TO < 15'-0' FOR EXPOSURE C

MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE SINGLE COLUMNS WITH INSERTS FOR
EAVE HEIGHTS 11'-0' < TO < 14'-0' FOR EXPOSURE B AND 9'-0' < TO < 13'-0' FOR EXPOSURE C

MAIN BUILDING COLUMNS WITH LEAN-TO OR ROOF EXTENSION ATTACHED ARE REQUIRED TO BE SINGLE COLUMNS FOR EAVE HEIGHTS

(11'-0' FOR EXPOSURE B AND < 9'-0' FOR EXPOSURE B AND 9'-0' FOR EXPOSURE D TO BE SINGLE COLUMNS FOR EAVE HEIGHTS ≤ 11'-0" FOR EXPOSURE B AND < 9'-0" FOR EXPOSURE C</p>



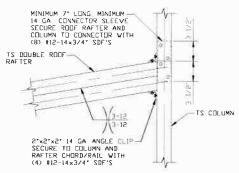
LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS < 12'-0"

SCALE NTS

17

17A

NOTE ROOF PITCH OF 2:12 AND 1:12 ARE ADEQUATE FOR LEAN-TO RAFTER



LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR

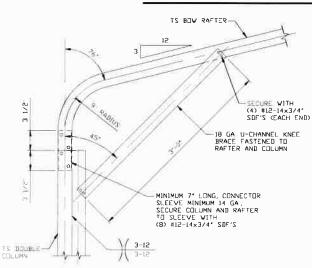
RAFTER SPANS 12'-0" < T□ < 15'-0"

SCALE: NTS NOTE: ROOF PITCH OF 212 AND 112 ARE ADEQUATE FOR LEAN-TO RAFTER

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BOW RAFTER LEAN-TO OPTION - EXPOSURE B

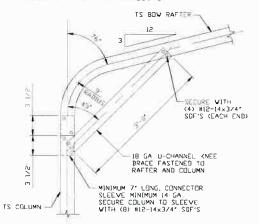
18A



BOW EAVE RAFTER COLUMN CONNECTION

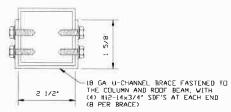
18 DETAIL FOR HEIGHTS 15'-0" < TO < 16'-0"

SCALE NTS HORSE BARN OPTION (REQUIRES A LEAN-TO ON BOTH SIDES OF THE MAIN BUILDING)



BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS ≤ 14'-0'

SCALE: NTS CHORSE BARN OPTION (REQUIRES A LEAN-TO ON BOTH SIDES OF THE MAIN BUILDING)



BRACE SECTION

18B

SECURE WITH

(4) BI2-14x3/4*
SDF'S CEACH END)

18 GA U-CHANNEL KNEE
BRACE FASTENED TO
RAFTER AND COLUMN

MINIMUM 7* LDNG, CONNECTOR
SLEEVE MINIMUM 14 GA.
SECURE VITH
(8) BI2-14x3/4* SDF'S

TO SLEEVE WITH
(8) BI2-14x3/4* SDF'S

TS COLUMN

TS C

TS BOW PAFTER

BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 14'-0" < TO < 15'-0"

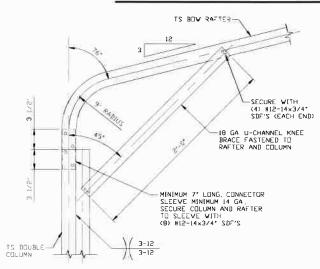
HORSE BARN OPTION (REQUIRES A LEAN-TO ON BOTH SIDES OF THE MAIN BUILDING)

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BOW RAFTER LEAN-TO OPTION - EXPOSURE C



BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 13'-0" < TO ≤ 16'-0"

SCALE NTS HORSE BARN OPTION (REQUIRES A LEAN-TO ON BOTH SIDES OF THE MAIN BUILDING). TS BOW RAFTER

SECURE WITH

(4) RI2-14×3/4'
SDF'S (EACH END)

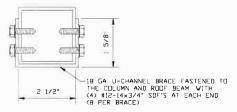
18 GA U-CHANNEL KNEE
BRACE FASTENED TO
RAFTER AND COLLUMN

MINIMUM 7' LONG CONNECTOR
SLEEVE MINIMUM 14 GA,
SCOURE COLLUMN TO SLEEVE
WITH (8) RI2-14×3/4' SDF'S

BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS ≤ 13'-0"

18D

SCALE NTS
HORSE BARN OPTION (REQUIRES A LEAN-TO
ON BOTH SIDES OF THE MAIN BUILDING)



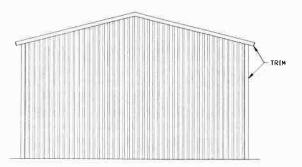
BRACE SECTION

SCALE: NTS

18C

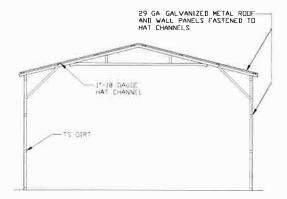
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BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



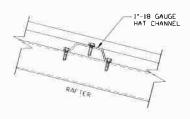
TYPICAL END ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS



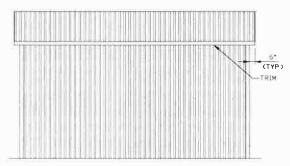
TYPICAL SECTION VERTICAL ROOF/SIDING OPTION

SCALE: NTS



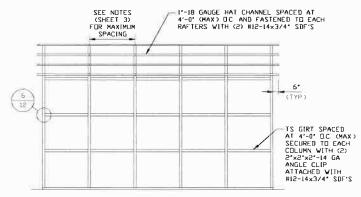
PANEL ATTACHMENT

(ALTERNATE FOR VERTICAL ROOF PANELS) SCALE: NTS



TYPICAL SIDE ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS



TYPICAL FRAMING SECTION VERTICAL ROOF/SIDING OPTION

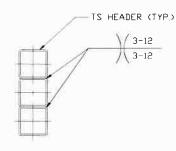
SCALE: NTS

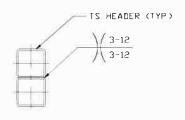
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4.5	CLIENT: EAGLE CARPORTS	SHT. 16	DVG. ND SK-3 REV. 9		REV. 9

SIDE WALL HEADER OPTIONS

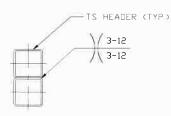


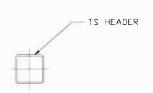


HEADER DETAIL FOR 12'-0" < LENGTHS < 16'-0"

HEADER DETAIL FOR LENGTHS < 12'-0"

END WALL HEADER OPTIONS





HEADER DETAIL FOR 14'-0" < LENGTHS < 20'-0"

HEADER DETAIL FOR LENGTHS < 14'-0"

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	EAGLE CARPORTS 210 AIRPORT ROAD			
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) N	27030		
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CLIENT: FAGLE CARPORTS	SHT. 17	DWG. NO SK-3	REV. 9	