A PLUS CARPORTS

STRUCTURAL DESIGN

ENCLOSED BUILDING

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

11 November 2020 Revision 0 M&A Project No. 20209S

Prepared for:

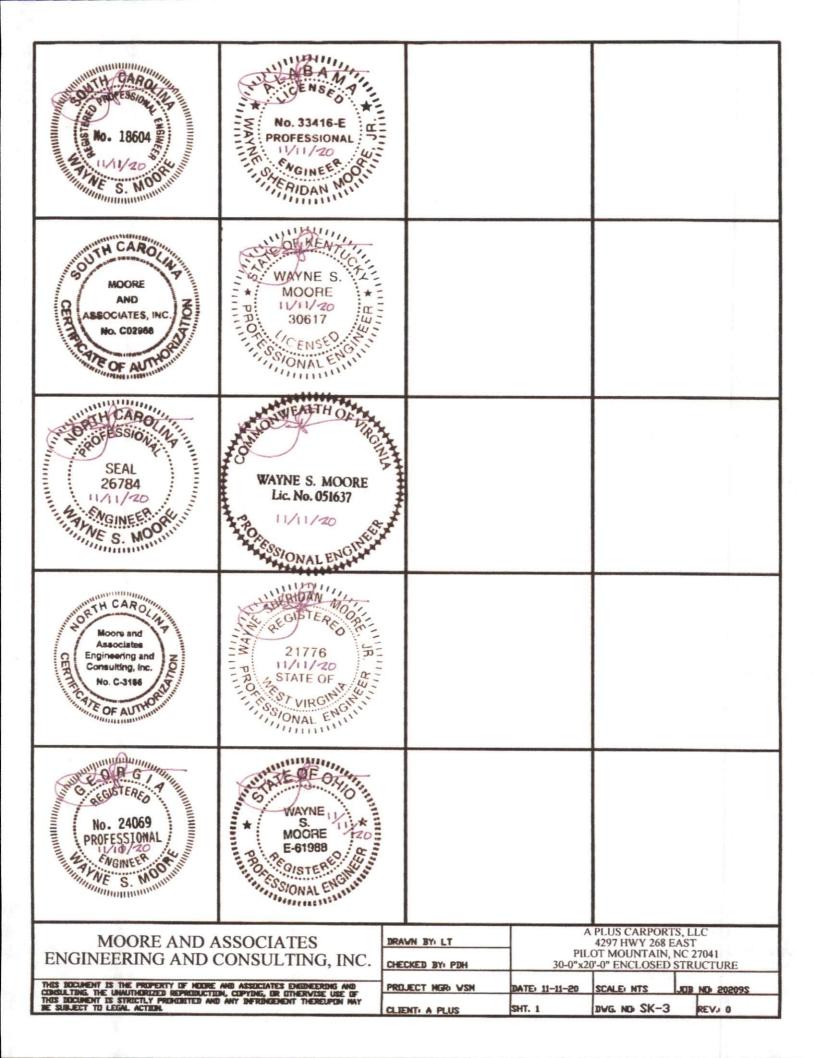
A Plus Carports, LLC 4297 Hwy 268 East Pilot Mountain, NC 27041

Prepared by:

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

- 1. DESIGN IS FOR MAXIMUM 30'-0" WIDE x 20'-0" EAVE HEIGHT ENCLOSED STRUCTURES
- 2 DESIGN WAS DONE IN ACCORDANCE WITH THE 2018 NORTH CAROLINA BUILDING CODE (NCBC), 2018 INTERNATIONAL BUILDING CODE (IBC), 2015 IBC AND 2012 IBC
- 3. DESIGN LOADS ARE AS FOLLOWS

A) DEAD LOAD

= 115 PSF

B) LIVE LUAD

= 50 b2£

C) GROUND SNOW LOAD

= 25 PSF

NOTE: UNBALANCED SNOW LOAD DUE TO DRIFTING HAS NOT BEEN EVALUATED

- 4 3-SECOND GUST ULTIMATE WIND SPEED (V_{ULT}) = ≤ 155 MPH (NOMINAL WIND SPEED = ≤ 120 MPH)
- 5 MAXIMUM RAFTER/POST AND END POST SPACING = 40 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/II
- 8 WIND EXPOSURE CATEGORY B/C
- 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), TS 2 1/4" x 2 1/4" 12 GAUGE MAY BE USED AS OPTIONAL FRAMING MEMBERS
- 10 AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR HAT CHANNELS, AND COLUMNS (INTERIOR OR END) = 10° DC (MAX) FOR RC I AND 8° D.C (MAX) FOR RC II.
- 11 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
- 12. ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6' OF EACH COLUMN.
- 13 STANDARD GROUND ANCHORS (SOIL NAILS) CONSIST OF #4 REBAR W/ WELDED NUT × 36' LONG AND MAY BE USED IN SUITABLE SOILS

 □PTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USED IN UNSUITABLE SOILS AS NOTED SOIL NAILS MAY ONLY BE

 USED FOR WIND SPEEDS ≤ 145 MPH. COORDINATE WITH LOCAL CODES/ORDINANCES REGARDING MINIMUM LENGTH FOR FROST DEPTH PROTECTION.
- 14 WIND FORCES GOVERN OVER SEISMIC FORCES SEISMIC PARAMETERS ANALYZED ARE:

SOIL SITE CLASS = D

RISK CATEGORY 1/11

R= 3.25

IE= 10 V= CSM

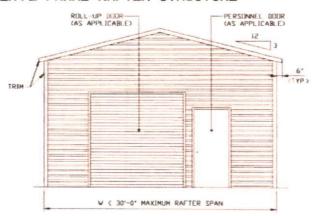
2039 g

Sm= 1.258 g

15 MAXIMUM THRESHOLD HEIGHT FOR PERSONNEL DOORS USED FOR MEANS OF EGRESS IN RC II STRUCTURES IS 1/2"

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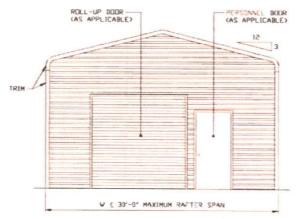
BOX EAVE FRAME RAFTER STRUCTURE



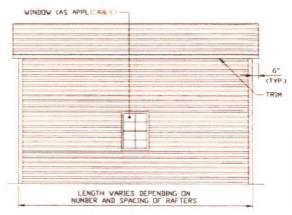
TYPICAL END ELEVATION

SCALE: NTS

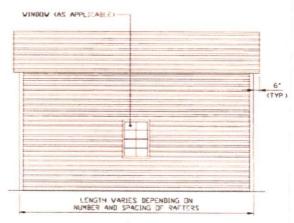
BOW EAVE FRAME RAFTER STRUCTURE



TYPICAL END ELEVATION



TYPICAL SIDE ELEVATION SCALE: NTS

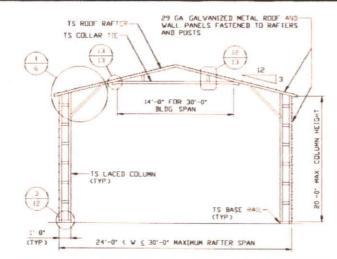


TYPICAL SIDE ELEVATION

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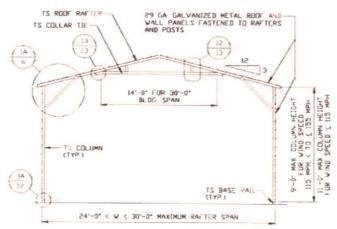
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PROJECT NGR WSN	DATE: 11-11-20	SCALE: NTS	JUB	20209S	V.
CHECKED BY: PDH		LOT MOUNTAIN 20'-0" ENCLOSE			
DRAWN BY: LT		A PLUS CARPO 4297 HWY 26	8 EAST		

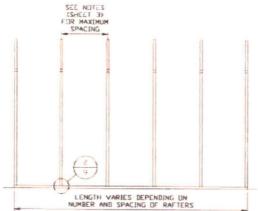


RAFTER/COLUMN END FRAME SECTION TYPICAL

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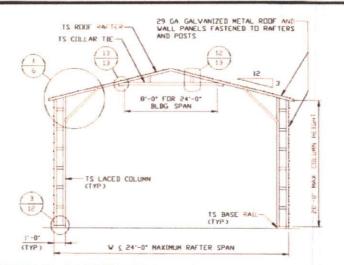


TYPICAL RAFTER/COLUMN END FRAME SECTION

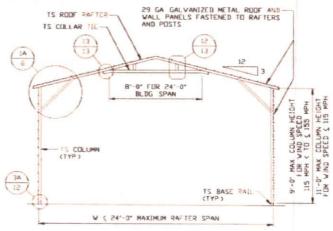


TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

SCALE: NTS



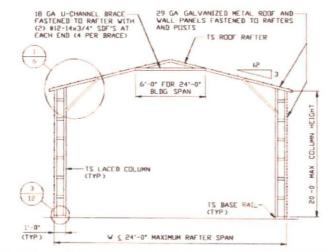
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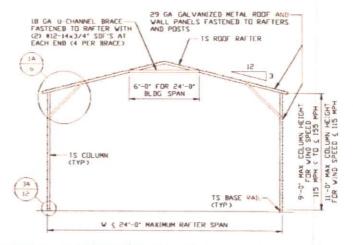


TYPICAL RAFTER/COLUMN END FRAME SECTION SCALE: NTS

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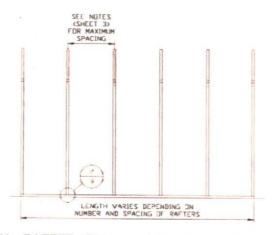
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PROJECT MGR: VSI		20'-0" ENCLOSE	T	ND 20209S
CLIENTI A PLUS	SHT. 5	DVG. ND: SK-		REV. 0





TYPICAL RAFTER/COLUMN END FRAME SECTION SCALE: NTS

TYPICAL RAFTER/COLUMN END FRAME SECTION SCALE: NTS

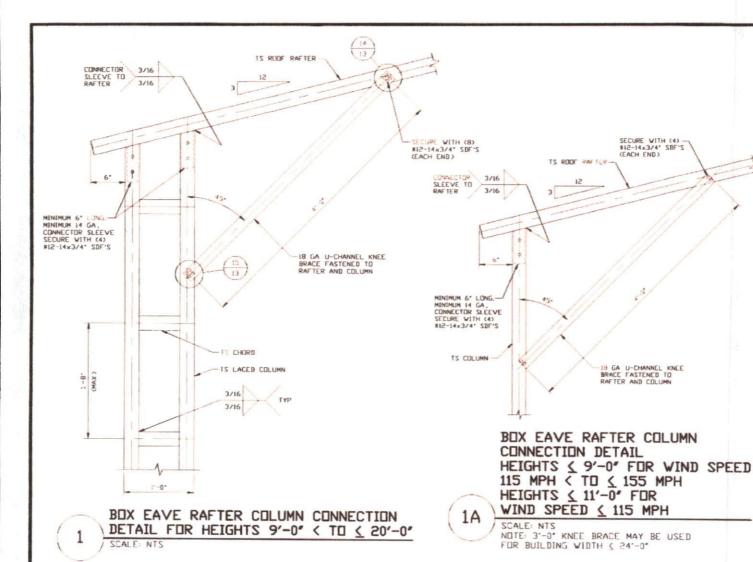


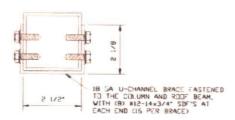
TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

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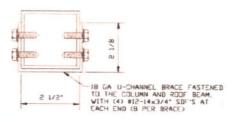
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CHECKED BY: PDH	30-0"x20'-0" ENCLOSED STRUCTURE			
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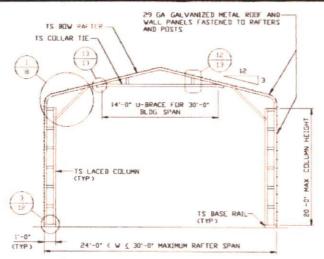


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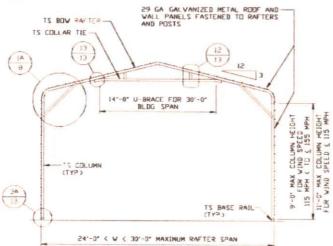
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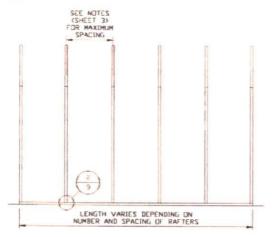
TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN FRAMING SIDE SECTION

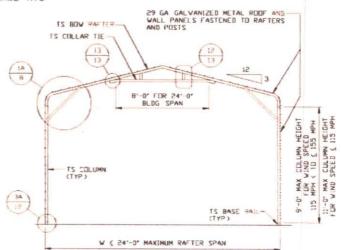
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TYPICAL RAFTER/COLUMN END FRAME SECTION

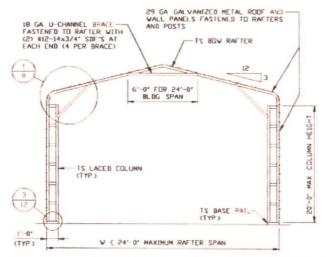
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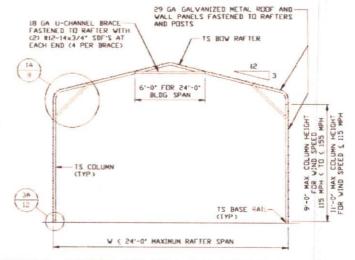


TYPICAL RAFTER/COLUMN END FRAME SECTION

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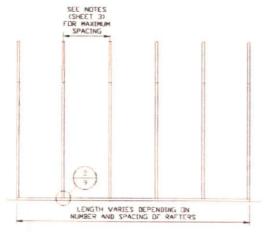
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TYPICAL RAFTER/COLUMN END FRAME SECTION

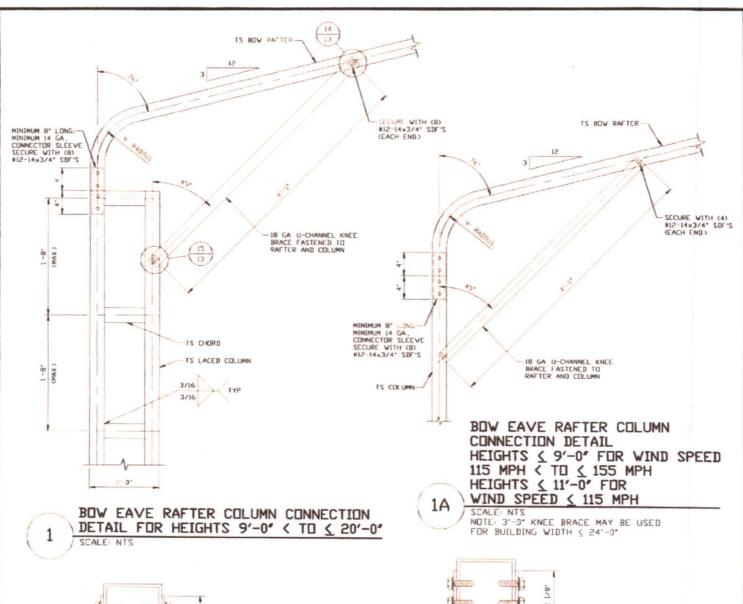
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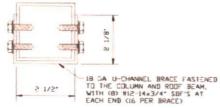


TYPICAL RAFTER/COLUMN FRAMING SIDE SECTION

SCALE NTS

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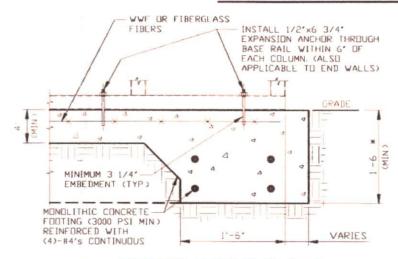
BRACE SECTION

Dusses-		77		
2 1/	2· T	3 THE COLL	INNEL BRACE IMN AND ROOF 1-14×3/4° SDI	BEAM.

BRACE SECTION

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BASE RAIL ANCHORAGE OPTIONS





CONCRETE MONOLITHIC SLAB BASE RAIL ANCHURAGE

MINIMUM ANCHOR EDGE DISTANCE IS 4° * COORDINATE WITH LOCAL BUILDING CODE AND/OR BUILDING OFFICIAL REGARDING REQUIRED FOOTING DEPTH.

GENERAL NOTES

NOTE: CONCRETE MONDLITHIC SLAB DESIGN BASED ON MINIMUM SDIL BEARING CAPACITY OF 1,500 PSF.

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 50 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

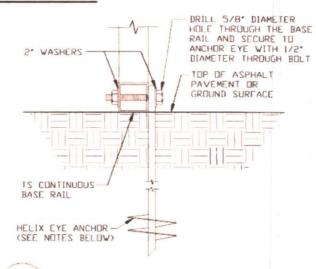
1 REINFORCEMENT IS BENT COLD

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
- FOR CORAL USE MINIMUM (2) 4' HELICES WITH MINIMUM 30' EMBEDMENT DR 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 LODSE 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.



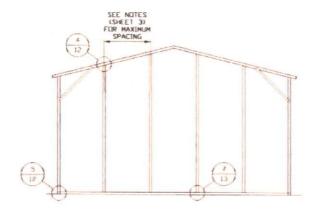
24

GROUND BASE HELIX ANCHORAGE

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

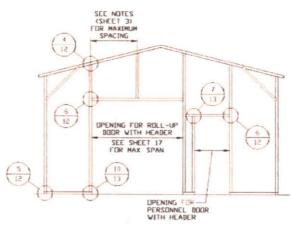
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BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



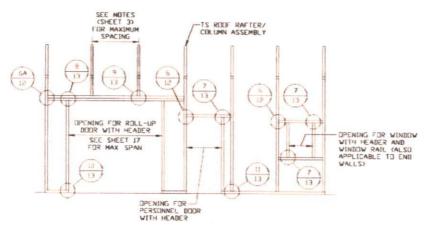
TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS

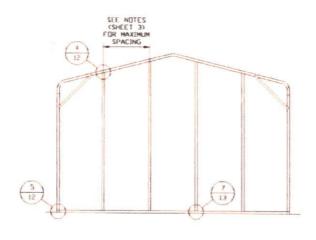


TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

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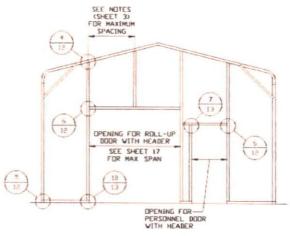
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BOW EAVE RAFTER END WALL AND SIDE WALL OPENINGS



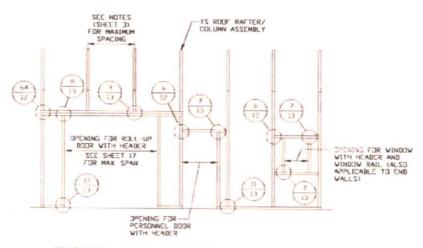
TYPICAL BOW RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BOW RAFTER END WALL OPENINGS FRAMING SECTION

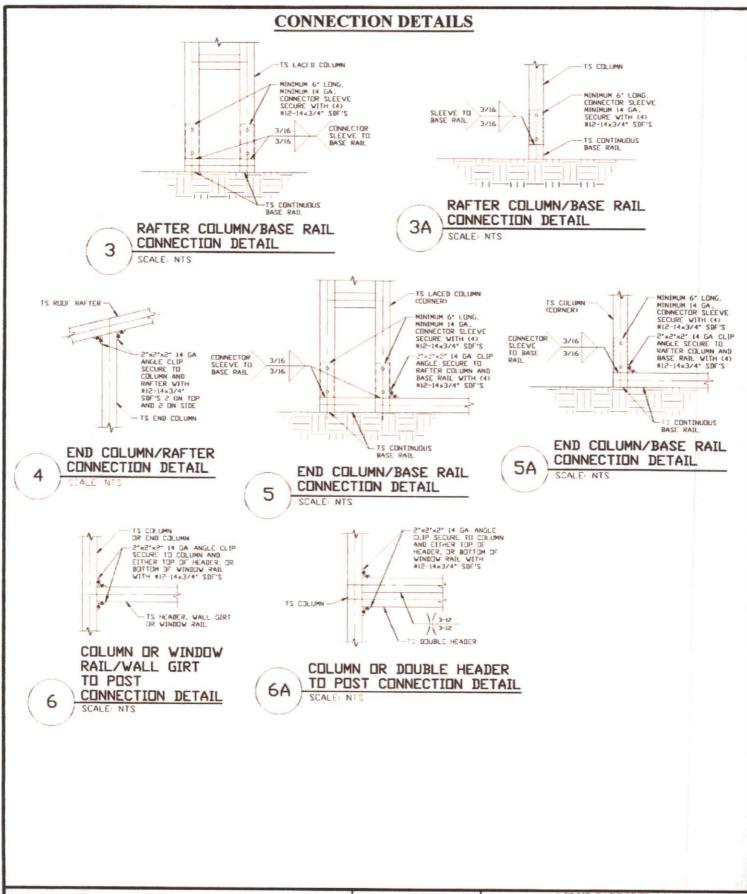
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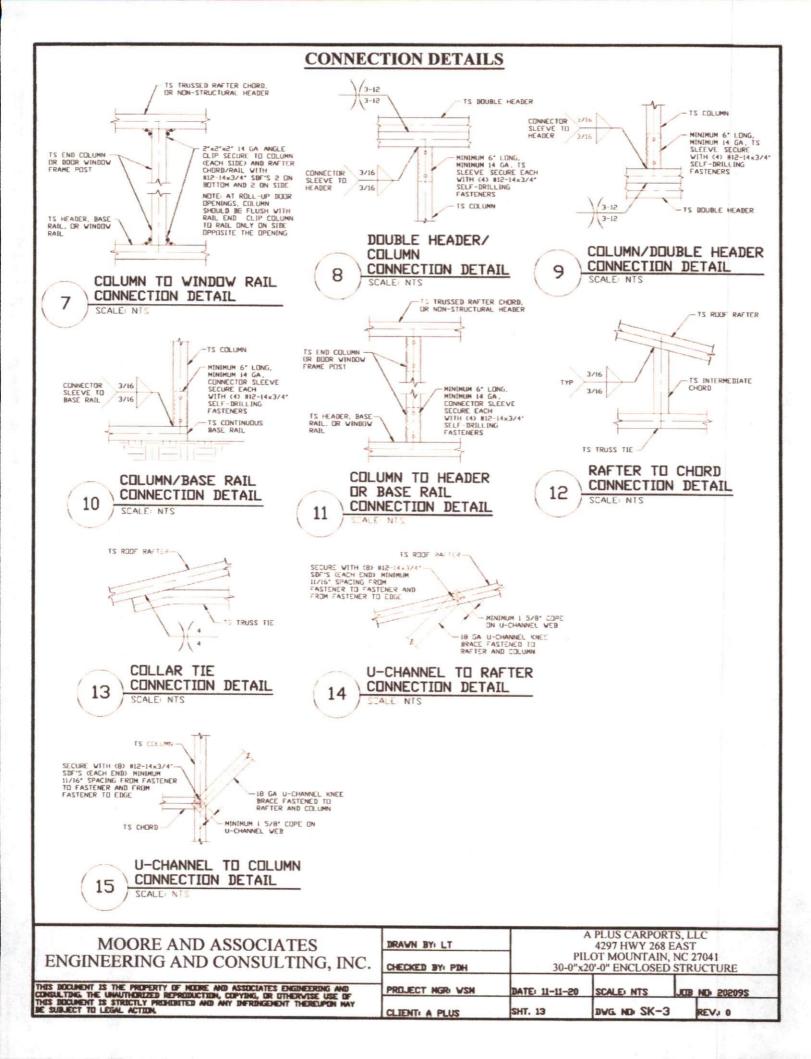
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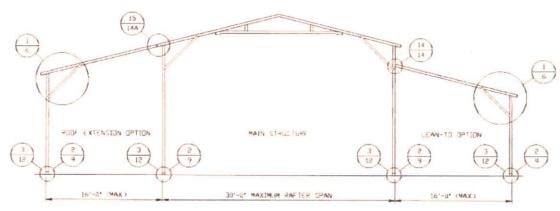
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ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH		OT MOUNTAIN, 0'-0" ENCLOSED	
MOORE AND ASSOCIATES	BRAWN BY: LT		4297 HWY 268	EAST



BOX EAVE RAFTER LEAN-TO OPTIONS



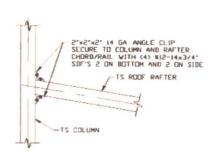
TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)

SCALE: NTS

MAXIMUM WIDTH OF LACED TUBE MEMBER (RAFTER AND COLUMN) ROOF EXTENSION AND LEAN-TO IS 16'-0'

MAXIMUM WIDTH OF SINGLE TUBE MEMBER (RAFTER AND COLUMN) ROOF EXTENSION AND LEAN-TO IS 11'-0'

REFERENCE RAFTER COLUMN CONNECTION DETAILS FOR APPROPRIATE COLUMN HEIGHT AND TUBING SPECIFICATION



LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS \(\) 11'-0'

14

2'x2'x2' 14 GA ANGLE CLIP
SECURE TO COLUMN AND RAFTER
CHORD/RAIL VITH (4) B12-14x3/4'
SDF'S 2 DN BOTTOM AND 2 DN SIDE

3/16
TYP
TS LACED LEAN-TO
RAFTER

(MAX)

TS CHURD

TS COLUMN

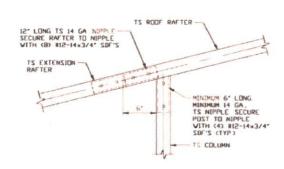
LEAN-TO RAFTER TO RAFTER
COLUMN CONNECTION DETAIL
FOR RAFTER SPANS 11'-0' < TO < 16'-0'
SCALE NTS

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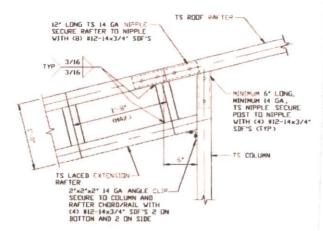
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CLIENT: A PLUS	SHT. 14	DVG. ND SK-	3	REV. 0		
PROJECT NGR: VSN	DATE: 11-11-20	SCALE: NTS	JOB	ND 20209S		
CHECKED BY PDH		PILOT MOUNTAIN, NC 27041 30-0"x20'-0" ENCLOSED STRUCTURE				
DRAWN BY: LT		4297 HWY 26	8 EAST			

BOX EAVE RAFTER LEAN-TO OPTIONS



SIDE EXTENSION RAFTER COLUMN DETAIL FOR RAFTER SPANS & 11'-0'



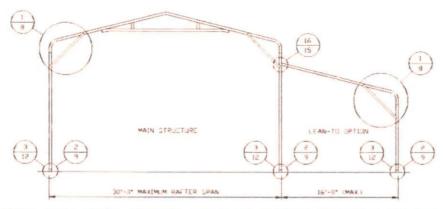
SIDE EXTENSION RAFTER
COLUMN DETAIL FOR RAFTER
SPANS 11'-0' < TO < 16'-0'
SCALE: NTS

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DRAWN BY: LT CHECKED BY: PDH	PII	A PLUS CARPORTS, LLC 4297 HWY 268 EAST PILOT MOUNTAIN, NC 27041 30-0"x20"-0" ENCLOSED STRUCTURE				
PROJECT MGR: VSM	DATE: 11-11-20	SCALE: NTS	JUB	ND: 20209S		
CLIENT: A PLUS	SHT. 14A	DVG. ND SK-	3	REVJ 0		

BOW EAVE RAFTER LEAN-TO OPTION



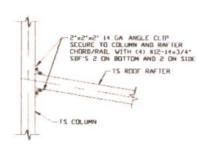
TYPICAL BOW EAVE RAFTER LEAN-TO OPTION FRAMING SECTION

SCALE: NTS

MAXIMUM WIDTH OF LACED TUBE MEMBER (RAFTER AND COLUMN) ROOF EXTENSION AND LEAN-TO IS 16'-0"

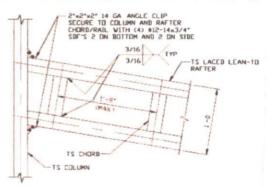
MAXIMUM WIDTH OF SINGLE TUBE MEMBER (RAFTER AND COLUMN) ROOF EXTENSION AND LEAN-TO IS 11'-0".

REFERENCE RAFTER COLUMN CONNECTION DETAILS FOR APPROPRIATE COLUMN HEIGHT AND TUBING SPECIFICATION



LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS \(\) 11'-0'

16



LEAN-TO RAFTER TO RAFTER
COLUMN CONNECTION DETAIL

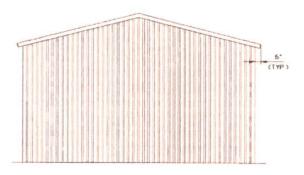
FOR RAFTER SPANS 11'-0' < TO < 16'-0"

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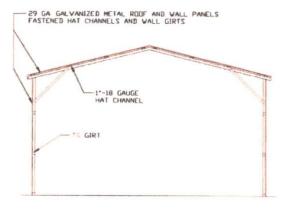
CLIENTI A PLUS	SHT. 15	DVG. NO SK-	3	REV. 0
PROJECT HGR: VSH	DATE: 11-11-20	SCALE: NTS	JOB	ND 20209S
CHECKED BY: PDH		20'-0" ENCLOSE		
DRAWN BY: LT		A PLUS CARPO 4297 HWY 26 LOT MOUNTAI	8 EAST	

BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



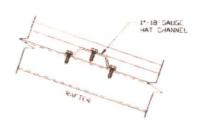
TYPICAL END ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS

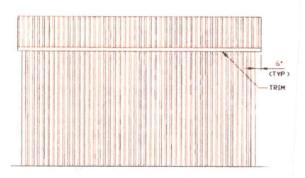


TYPICAL SECTION VERTICAL ROOF/SIDING OPTION

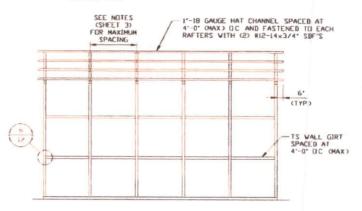
SCALE: NTS



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



TYPICAL SIDE ELEVATION VERTICAL ROOF/SIDING



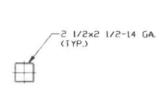
TYPICAL FRAMING SECTION VERTICAL ROOF/SIDING OPTION

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CLIENT: A PLUS	SHT. 16	DVG NO SK-	3	REV. 0
PROJECT MGRI VSM	DATE: 11-11-20	SCALE: NTS	JOB	ND 202095
CHECKED BY: PDH	PILOT MOUNTAIN, NC 27041 30-0"x20'-0" ENCLOSED STRUCTURE			
DRAWN BY: LT	4297 HWY 268 EAST			

SIDE WALL HEADER OPTIONS



(2) 2 1/2×2 1/2-14 GA (TYP)

2 1/2×2 1/2-14 GA (TYP) 2 1/2×2 1/2-14 GA 3/16 TYP. 0

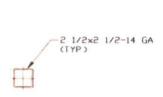
HEADER DETAIL FOR DOOR **□PENINGS LENGTHS ≤ 6'-0"**

SCALE: NTS

HEADER DETAIL FOR DOOR OPENINGS 6'-0" < LENGTHS ≤ 10'-0" SCALE: NTS

HEADER DETAIL FOR DOOR OPENINGS 10'-0" < LENGTHS ≤ 20'-0" SCALE: NTS

END WALL HEADER OPTIONS



2 1/2×2 1/2-14 GA. (TYP.) 2 1/2×2 1/2-14 GA. 1'-8" []C (TYP) 3/16 TYP 0

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

SCALE: NTS

HEADER DETAIL FOR DOOR OPENINGS 7'-0' < LENGTHS ≤ 20'-0" SCALE: NTS

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CLIENT: A PLUS	PLUS SHT. 17		DVG. NO SK-3	
PROJECT NGR: VSN	DATE: 11-11-20	SCALE: NTS	JOB	ND 20209S
CHECKED BY: PDH	PILOT MOUNTAIN, NC 27041 30-0"x20'-0" ENCLOSED STRUCTURE			
DRAWN BY: LT	4297 HWY 268 EAST			