BRES 1904-



STRUCTURAL DESIGN

ENCLOSED BUILDING

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

6 April 2017 Revision 6 M&A Project No. 15156S & 16135S

Prepared for:

Carolina Carports, Inc. 187 Cardinal Ridge Trail Dobson, NC 27017

Prepared by:

Moore and Associates Engineering and Consulting, Inc. 1009 East Avenue North Augusta, SC 29841

> 401 S. Main Street, Suite 200 Mt. Airy, NC 27030





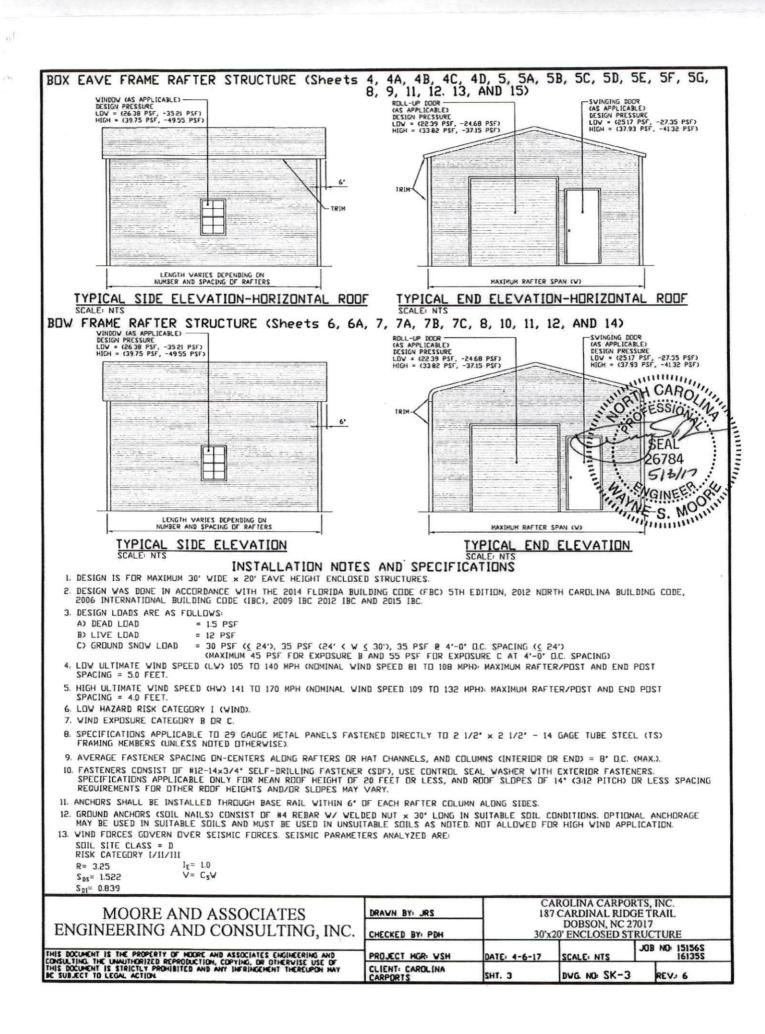
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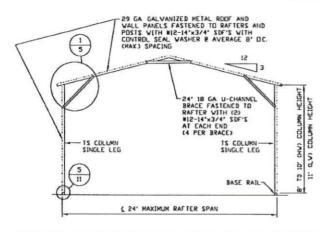
DRAWING INDEX

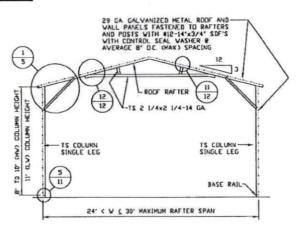
SHEET 1	PE SEAL COVER SHEET
SHEET 1A	PE SEAL COVER SHEET
SHEET 2	DRAWING INDEX
SHEET 3	INSTALLATION NOTES AND SPECIFICATIONS AND TYPICAL SIDE AND END ELEVATIONS
SHEET 4	TYPICAL RAFTER/COLUMN END AND SIDE FRAMING SECTION
	(BOX EAVE RAFTER) EXPOSURE B
SHEET 4A	TYPICAL RAFTER/COLUMN END AND SIDE FRAMING SECTION
	(BDX EAVE RAFTER) EXPOSURE C
SHEET 4B	TYPICAL RAFTER/COLUMN END FRAMING SECTION
SHEET 4C	(BOX EAVE RAFTER) LACED DOUBLE LEG AND DOUBLE COLUMN EXPOSURE B TYPICAL RAFTER/COLUMN END FRAMING SECTION
SHEET 46	(BOX EAVE RAFTER) LACED DOUBLE LEG AND DOUBLE COLUMN EXPOSURE C
SHEET 4D	TYPICAL SIDE FRAMING SECTION (BOX EAVE RAFTER)
E STEEL SERVICES TO STEEL	LACED DOUBLE LEG AND DOUBLE COLUMN OPTION
SHEET 5	COLUMN CONNECTION DETAILS (BOX EAVE STRUCTURE EXPOSURE B (140 MPH)
SHEET 5A	COLUMN CONNECTION DETAILS (BOX EAVE STRUCTURE EXPOSURE B (170 MPH)
SHEET 5B	COLUMN CONNECTION DETAILS (BOX EAVE STRUCTURE EXPOSURE C (140 MPH)
SHEET 5C SHEET 5D	COLUMN CONNECTION DETAILS (BOX EAVE STRUCTURE EXPOSURE C (170 MPH) COLUMN CONNECTION DETAILS (BOX EAVE STRUCTURE EXPOSURE B (140 MPH)
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SHEET 5E	COLUMN CONNECTION DETAILS (BOX EAVE STRUCTURE EXPOSURE B (170 MPH)
	LACED DOUBLE LEG AND DOUBLE COLUMN OPTION
SHEET 5F	COLUMN CONNECTION DETAILS (BOX EAVE STRUCTURE EXPOSURE C (140 MPH)
CHEET EC	LACED DOUBLE LEG AND DOUBLE COLUMN OPTION
SHEET 5G	COLUMN CONNECTION DETAILS (BOX EAVE STRUCTURE EXPOSURE C (170 MPH) LACED DOUBLE LEG AND DOUBLE COLUMN OPTION
SHEET 6	TYPICAL RAFTER/COLUMN END AND SIDE FRAMING SECTION
	(BDW RAFTER) EXPOSURE B
SHEET 6A	TYPICAL RAFTER/COLUMN END AND SIDE FRAMING SECTION
	(BOW RAFTER) EXPOSURE C
SHEET 7	COLUMN CONNECTION DETAILS (BOW RAFTER STRUCTURE EXPOSURE B (140 MPH)
SHEET 7A SHEET 7B	COLUMN CONNECTION DETAILS (BOW RAFTER STRUCTURE EXPOSURE B (170 MPH) COLUMN CONNECTION DETAILS (BOW RAFTER STRUCTURE EXPOSURE C (140 MPH)
SHEET 7C	COLUMN CONNECTION DETAILS (BOW RAFTER STRUCTURE EXPOSURE C (170 MPH)
SHEET 8	BASE RAIL ANCHORAGE OPTIONS
SHEET 9	TYPICAL END WALL AND SIDE WALL FRAMING SECTIONS (BOX EAVE)
SHEET 10	TYPICAL END WALL AND SIDE WALL FRAMING SECTIONS (BOW RAFTER)
SHEET 11	WALL DPENING DETAILS
SHEET 12	WALL OPENING DETAILS
SHEET 13	LEAN-TO OPTIONS (BOX EAVE RAFTER)
SHEET 14	LEAN-TO OPTIONS (BOW RAFTER)
SHEET 15	VERTICAL ROOF OPTION END AND SIDE ELEVATION AND SECTION
SHEET 16	BASE RAIL ON GRADE APPLICATION
SHEET 17	BASE RAIL ON GRADE APPLICATION OPTIONAL BASE RAIL ON TIMBER BEAM
SHEET 18	OPTIONAL BASE RAIL ON TIMBER BEAM WITH SOIL NAIL
SHEET 19	OPTIONAL CONCRETE STRIP FOOTING
SHEET 20	OPTIONAL HEADER
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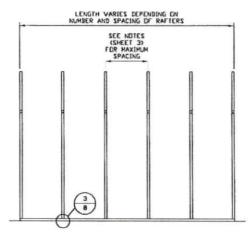
EXPOSURE B





TYPICAL RAFTER/COLUMN END FRAME SECTION
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TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS

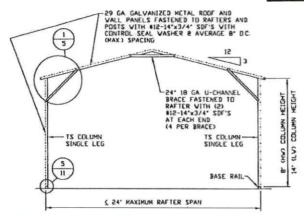


TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION



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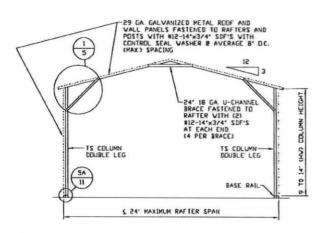
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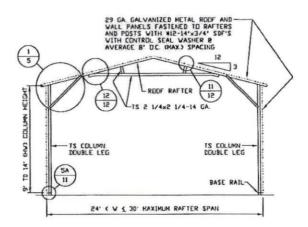


29 GA GALVANIZED METAL ROOF AND WALL PANELS FASTENED TO RAFTERS AND POSTS WITH #12-14"3/4" SDF'S WITH CONTROL SEAL WASHER & AVERAGE B" DC. (MAX) SPACING 5 12 11 12 HEIGHT HEIGHT V-15 2 1/4x2 1/4-14 GA מברחשא TS COLUMN -SINGLE LEG TS COLUMN 3 S 5 4 BASE RAIL 24' (V & 30' MAXIMUM RAFTER SPAN

TYPICAL RAFTER/COLUMN END FRAME SECTION SCALE: NTS

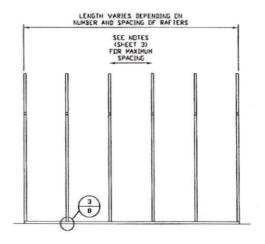
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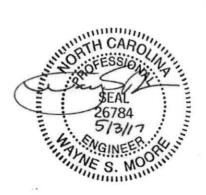




TYPICAL RAFTER/COLUMN END FRAME SECTION

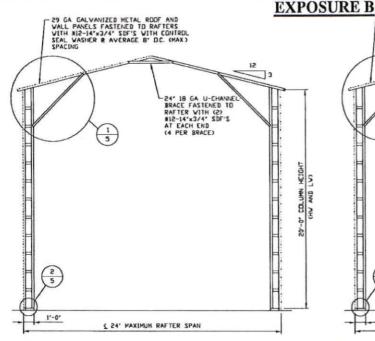
TYPICAL RAFTER/COLUMN END FRAME SECTION



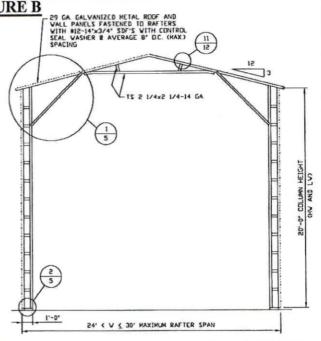


TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
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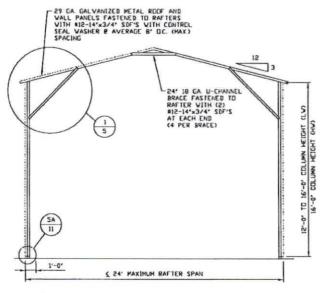
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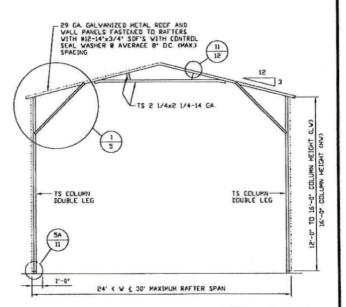
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TYPICAL RAFTER/COLUMN END FRAME SECTION SCALE: NTS



TYPICAL RAFTER/COLUMN END FRAME SECTION



RAFTER/COLUMN END FRAME SECTION

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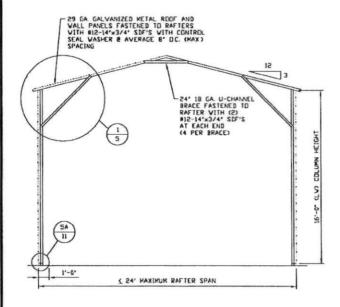
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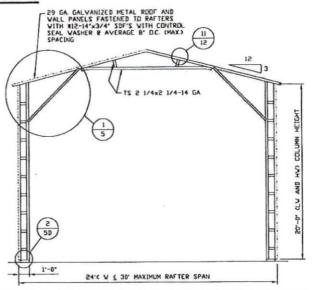
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EXPOSURE C -29 GA. GALVANIZED METAL ROOF AND WALL PANELS FASTENED TO RAFTERS WITH #12-14'x3'4" SDF'S WITH CONTROL SEAL WASHER & AVERAGE 8" DC. (MAX.) SPACING -24' 18 GA. U-CHANNE BRACE FASTENED TO RAFTER VITH (2) M12-14'x3/4' SDF'S AT EACH END (4 PER BRACE) 5 COLUMN ŝ AND 20 1'-0' £ 24' MAXIMUM RAFTER SPAN

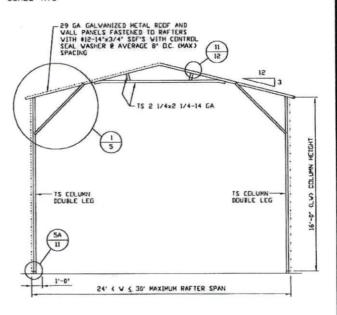
TYPICAL RAFTER/COLUMN END FRAME SECTION



TYPICAL RAFTER/COLUMN END FRAME SECTION SCALE: NTS



RAFTER/COLUMN END FRAME SECTION TYPICAL SCALE: NTS



TYPICAL	RAFTER/COLUMN	END	FRAME	SECTION
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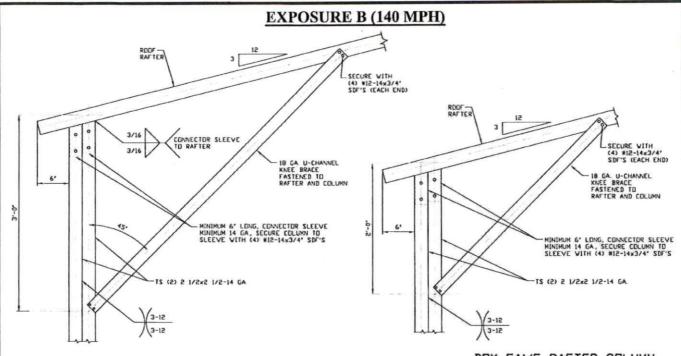
LENGTH VARIES DEPENDING DN
NUMBER AND SPACING OF RAFTERS

SEE NOIES
OPAGES 5D-5CD
FOR MAXIMUM
SPACING

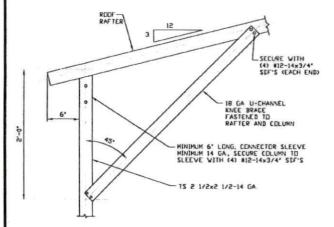
TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION SCALE: NTS



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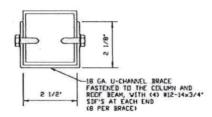


BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 12' < TO < 14'



BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS & 11'

BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 11' < TO < 12'



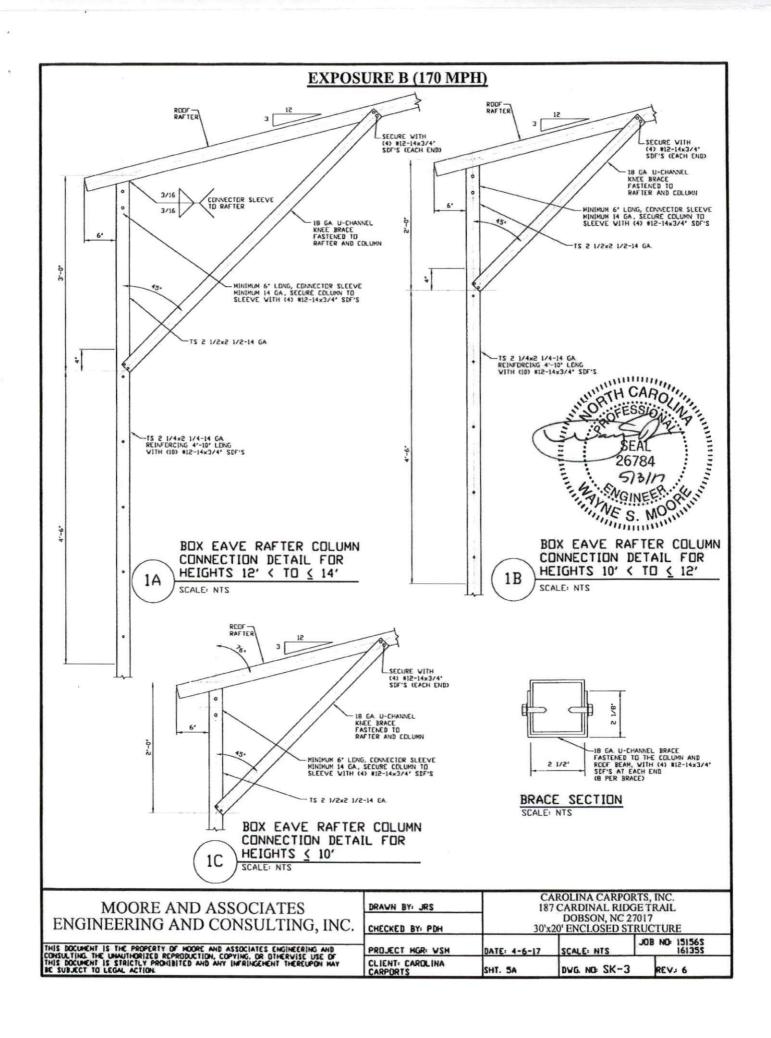
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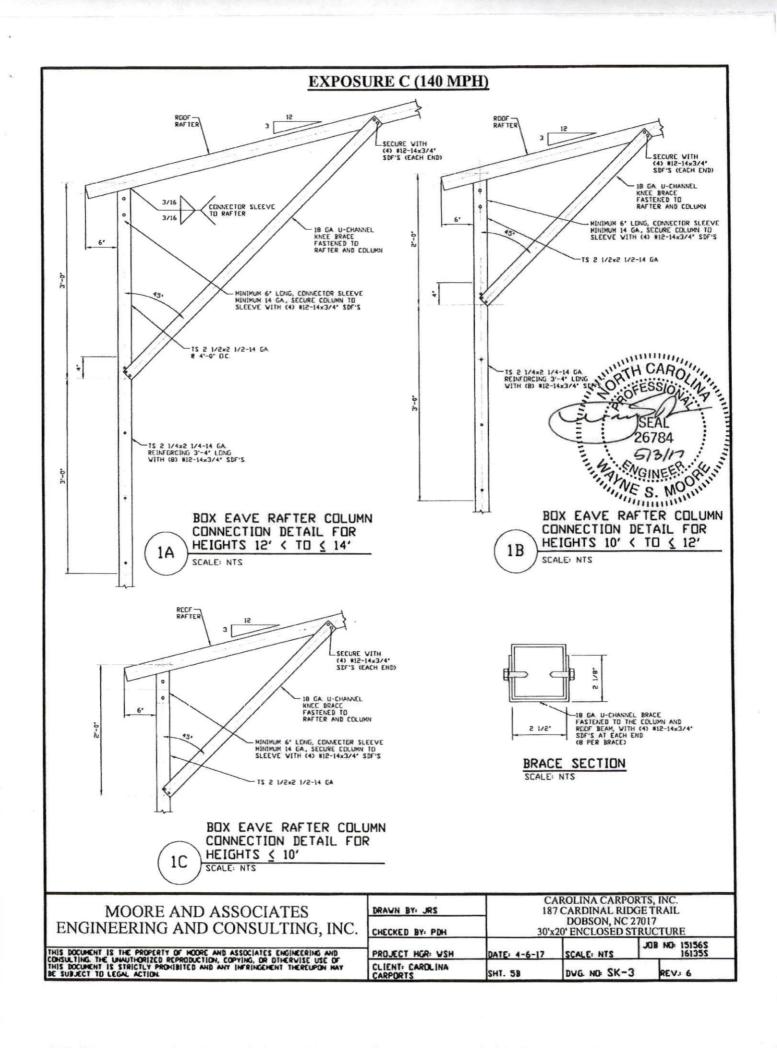


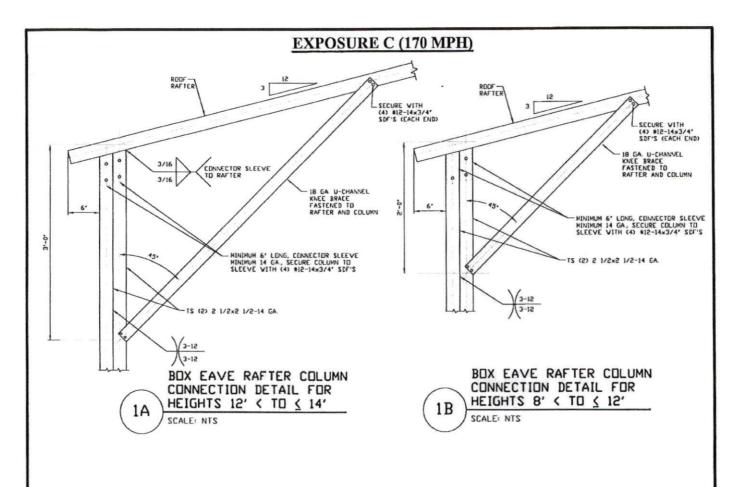
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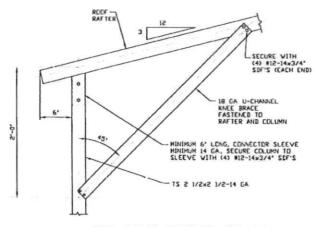
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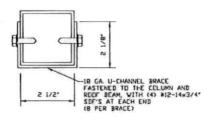








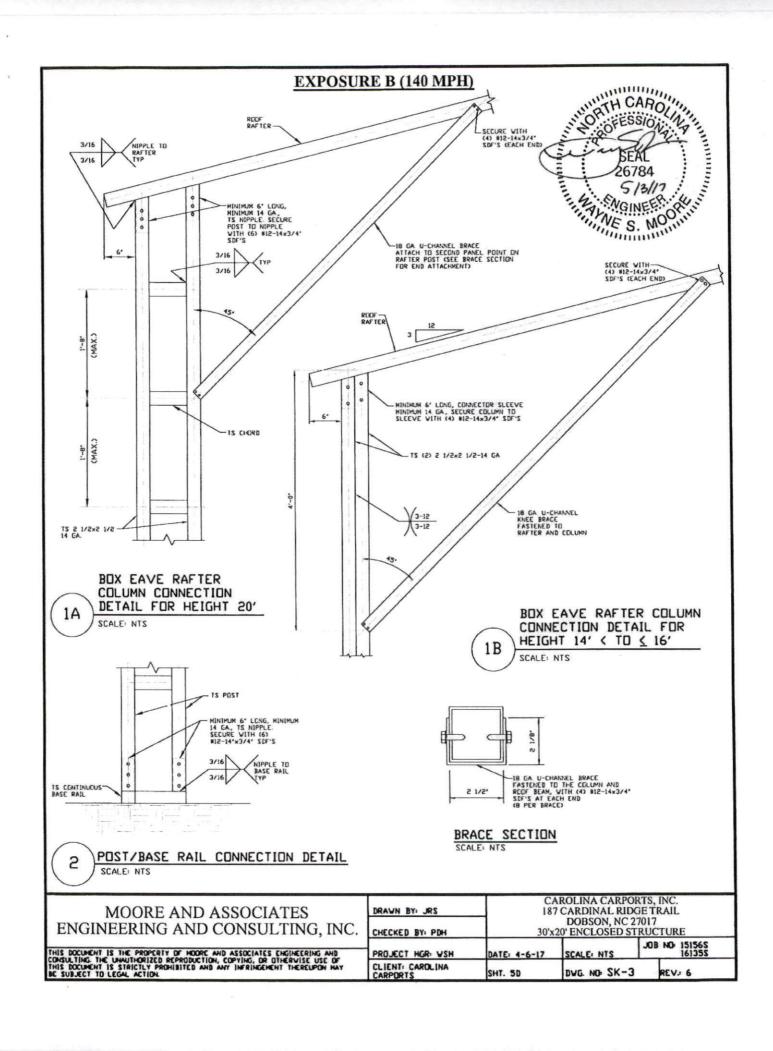
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS & 8'

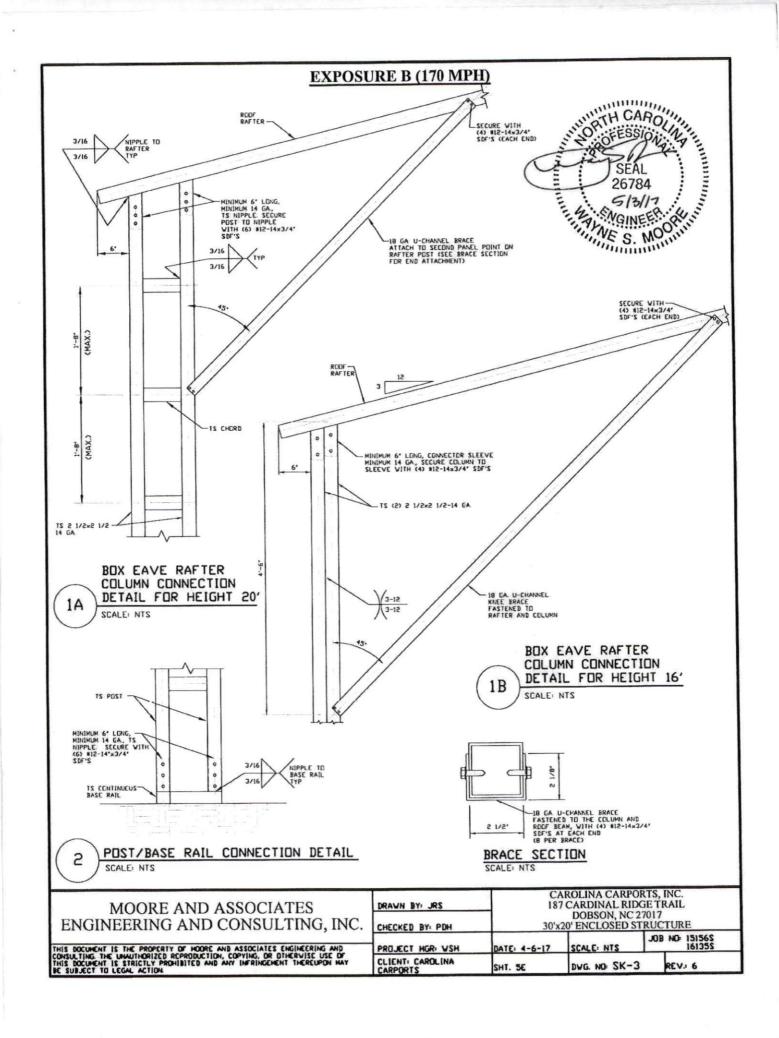


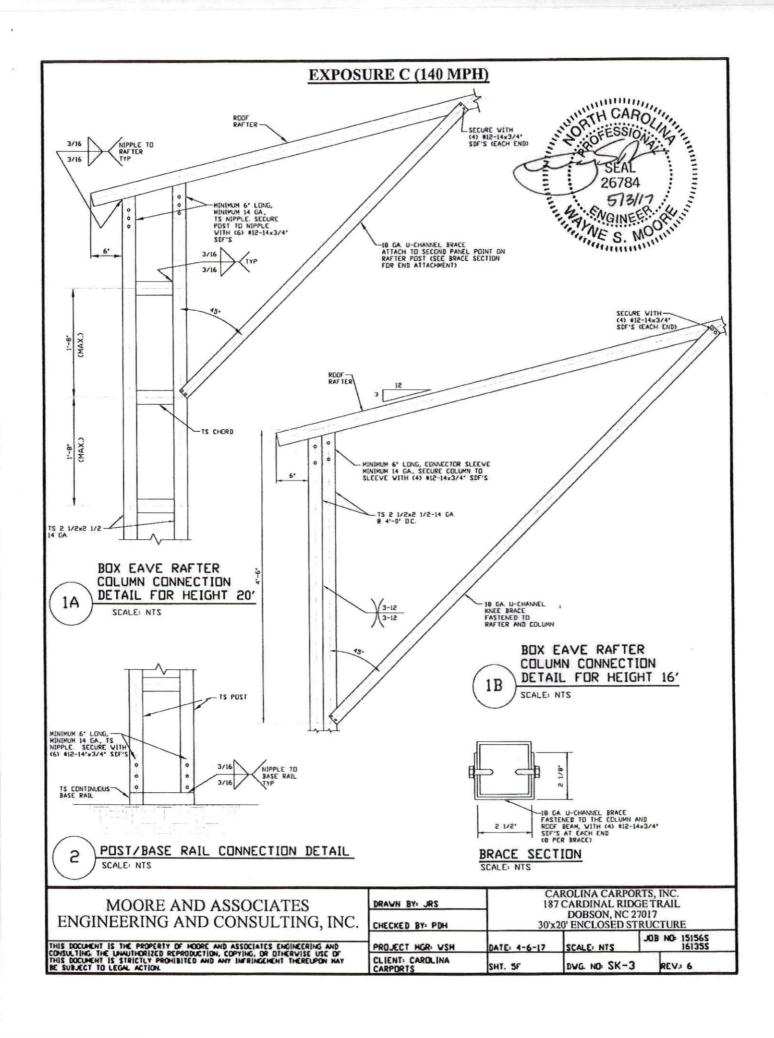
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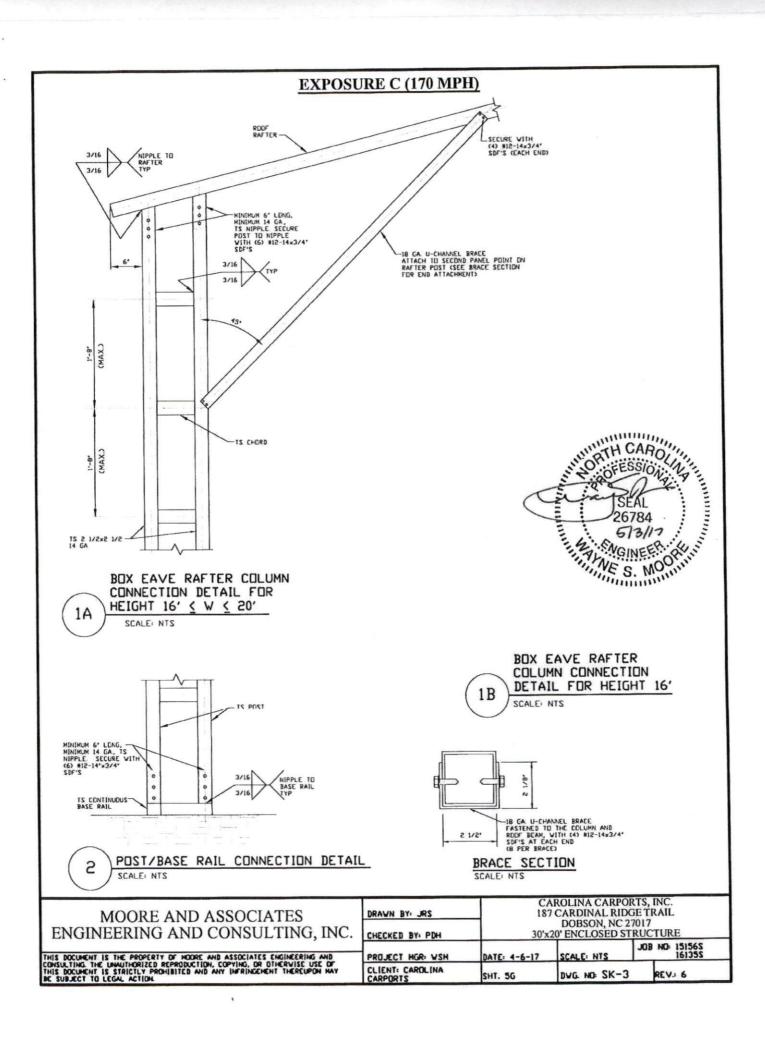
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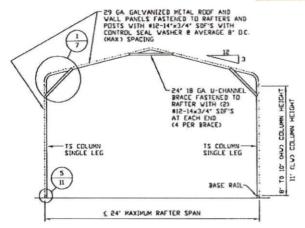


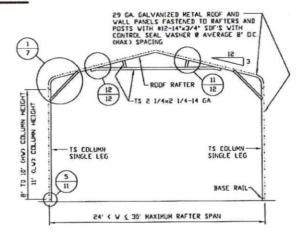






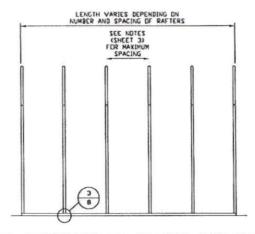
EXPOSURE B



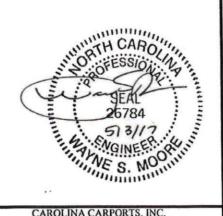


TYPICAL RAFTER/COLUMN END FRAME SECTION SCALE: NTS

TYPICAL RAFTER/COLUMN END FRAME SECTION



TYPICAL RAFTER/COLUMN FRAMING SIDE SECTION
SCALE: NTS

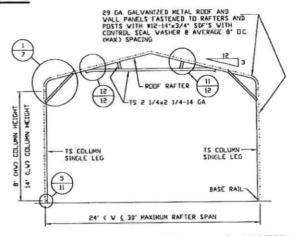


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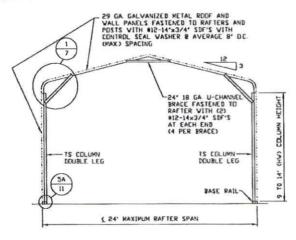
29 GA GALVANIZED METAL ROOF AND VALL PANELS FASTENED TO RAFTERS AND POSTS VITH MIZ-14"XJ/4" SDF'S VITH CONTROL SEAL VASHER & AVERAGE 8" OC. (MAX3 SPACING 24' 18 GA U-CHANNEL RRACE FASTENED TO RAFTER VITH (2) BIZ-14/3/4" SDF'S AT EACH END (4 PER BRACE) 15 COLUMN SINGLE LEG 5 BASE RAIL 6 Y

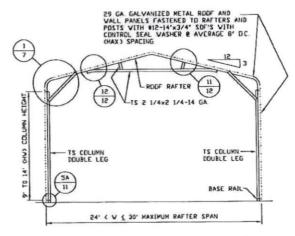


TYPICAL RAFTER/COLUMN END FRAME SECTION

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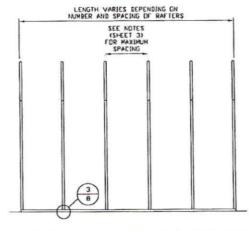
TYPICAL RAFTER/COLUMN END FRAME SECTION





TYPICAL RAFTER/COLUMN END FRAME SECTION SCALE: NTS

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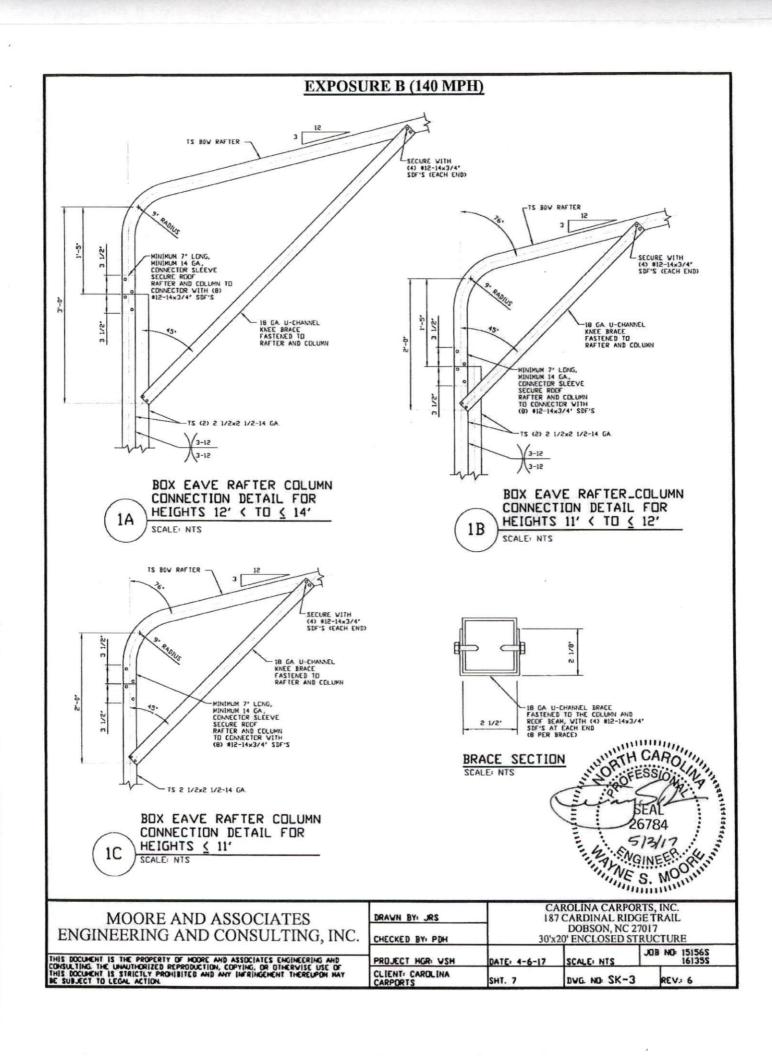
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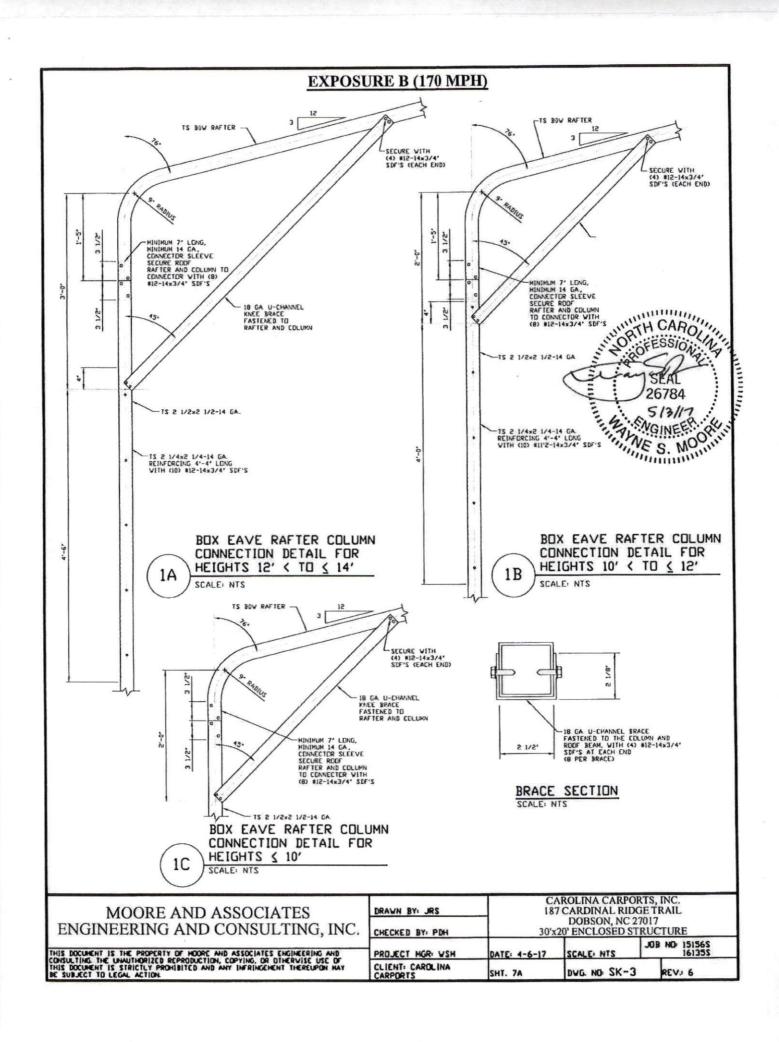
TYPICAL RAFTER/COLUMN FRAMING SIDE SECTION
SCALE: NTS

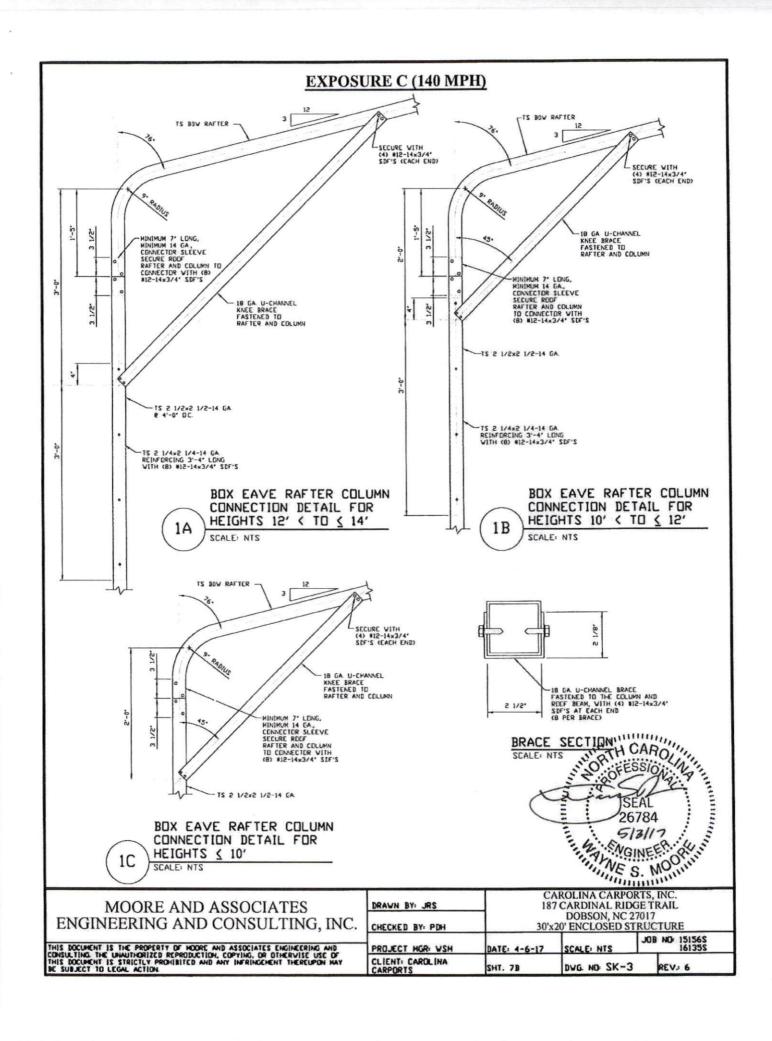
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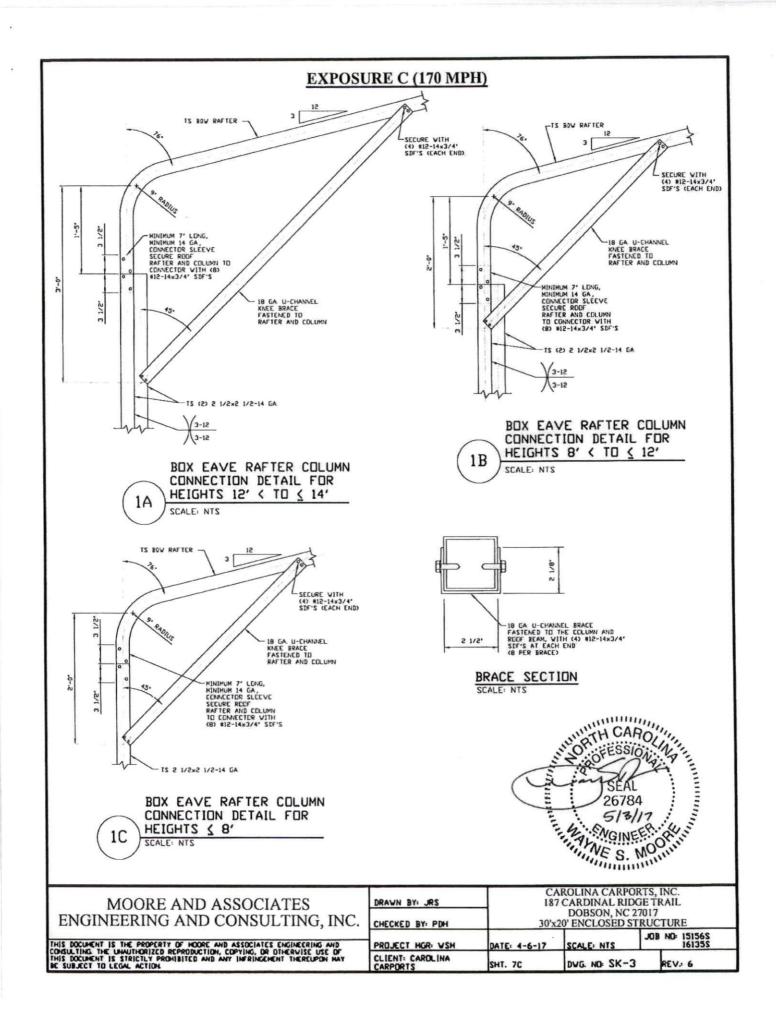
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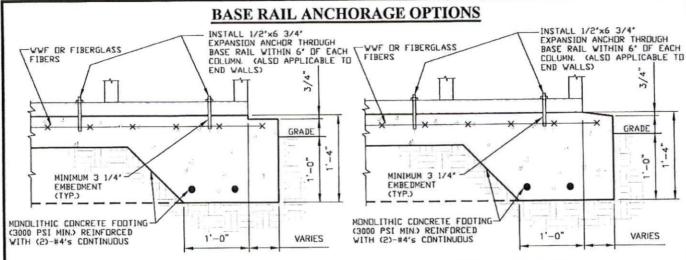
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PROJECT HGR: WSH	DATE: 4-6-17	JOB NO: 1515		
CLIENT: CAROLINA CARPORTS	SHT. 6A	DVG. NO: SK-	3 REV. 6	











BASE RAIL ANCHURAGE (MINIMUM ANCHOR EDGE DISTANCE IS 4")

GENERAL NOTES

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 DR EXPOSED TO THE EARTH OR WEATHER, AND I 1/2' ELSEWHERE.

CONCRETE MONOLITHIC SLAB

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.

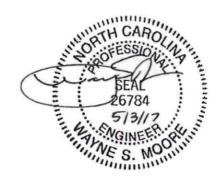
HELIX ANCHOR NOTES:

- 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 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.



2' WASHERS DRILL 5/8' DIAMETER HOLE THROUGH THE BASE RAIL AND SECURE TO ANCHOR EYE WITH 1/2' DIAMETER THROUGH BOLT TOP OF ASPHALT GROUND SURFACE TS CONTINUOUS BASE RAIL DOUBLE HELIX EYE ANCHOR -(SEE NOTES BELOW)

GROUND BASE HELIX ANCHORAGE 30 (CAN BE USED FOR ASPHALT)

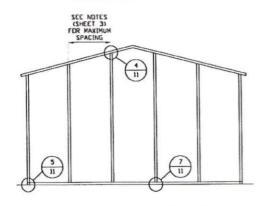


CAROLINA CARPORTS, INC.

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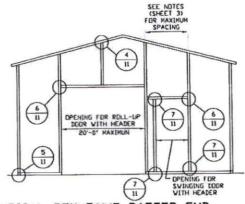
CHECKED BY: PDH	DOBSON, NC 27017 30'x20' ENCLOSED STRUCTURE				
PROJECT HGR: VSH	DATE: 4-6-17 SCALE: NTS JOB NO: 15156S 16135S				
CLIENT: CAROLINA CARPORTS	SHT. 8	DVG. NO: SK-3	3	REV. 6	

BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



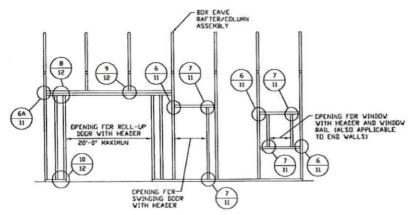
TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS



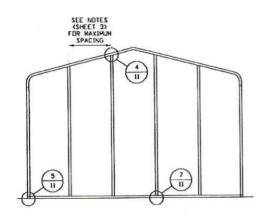
TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE: NTS



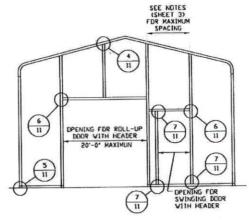
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ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH	30'x	DOBSON, NC 20' ENCLOSED S		
MOORE AND ASSOCIATES	DRAWN BY: JRS		AROLINA CARPO 7 CARDINAL RII	DGETI	RAIL

BOW RAFTER END WALL AND SIDE WALL OPENINGS



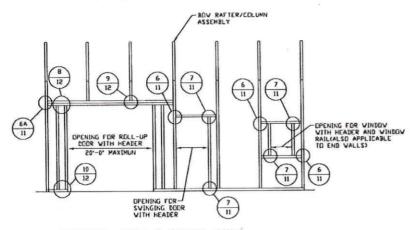
TYPICAL BOW RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BOW RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS



TYPICAL BOW RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE: NTS

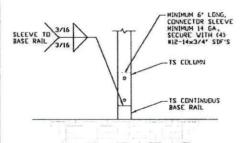


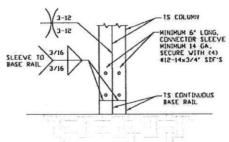
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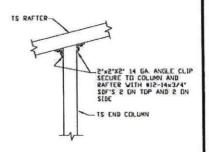
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CHECKED BY: PDH	30'x	20' ENCLOSED		
PROJECT HOR: VSH	DATE: 4-6-17	SCALE: NTS	JOI	8 NO: 15156S 16135S
CLIENT: CAROLINA CARPORTS	SHT. 10	DVG. NO: SK-	3	REV. 6

BOW AND BOX EAVE RAFTER WALL OPENING DETAILS



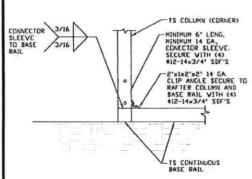


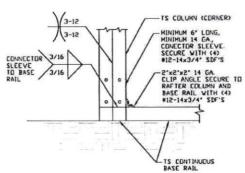


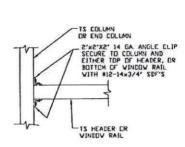
2 RAFTER COLUMN/BASE RAIL
CONNECTION DETAIL
SCALE: NTS

2A CONNECTION DETAIL

4 END COLUMN/RAFTER CONNECTION DETAIL
SCALE: NTS



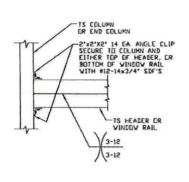


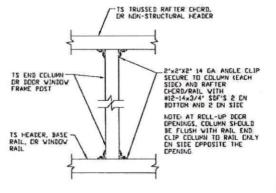


5 END COLUMN/BASE RAIL
CONNECTION DETAIL
SCALE: NTS

SA SCALE: NTS

COLUMN OR WINDOW
RAIL TO POST
CONNECTION DETAIL
SCALE: NTS





COLUMN OR WINDOW RAIL TO POST CONNECTION DETAIL

SCALE: NTS

7 COLUMN TO HEADER, BASE RAIL, OR WINDOW RAIL CONNECTION DETAIL

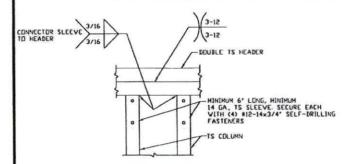
SEAL 26784 ST3/17

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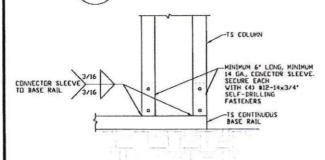
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PROJECT HGR: WSH	DATE: 4-6-17	SCALE: NTS	JO	B NO: 151565 161355				
CLIENT: CAROLINA CARPORTS	SHT. 11	DVG. NO: SK-	3	REV. 6				

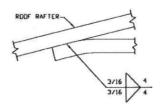
BOW AND BOX EAVE RAFTER WALL OPENING DETAILS



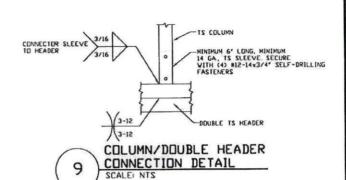
8 DOUBLE HEADER/COLUMN CONNECTION DETAIL SCALE: NTS

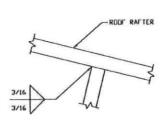


10 COLUMN/BASE RAIL CONNECTION DETAIL SCALE: NTS



12 COLLAR TIE CONNECTION DETAIL





RAFTER TO CHORD CONNECTION DETAIL
SCALE: NTS

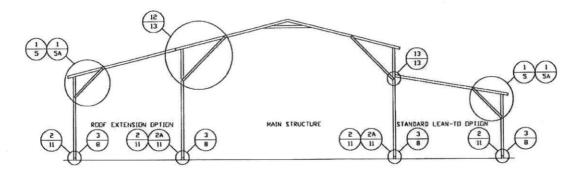


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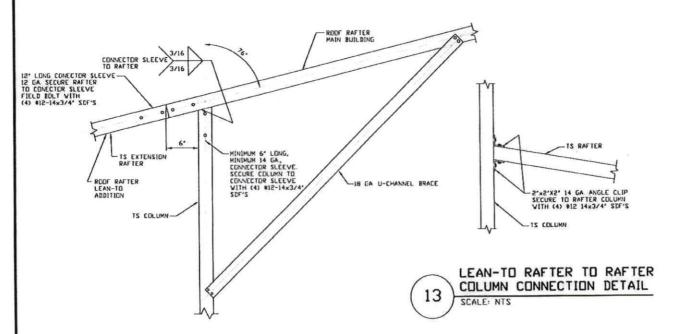
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	CLIENT: CAROLINA CARPORTS	SHT. 12	DVG. NO: SK-	3	REV. 6			

BOX EAVE RAFTER LEAN-TO OPTIONS



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

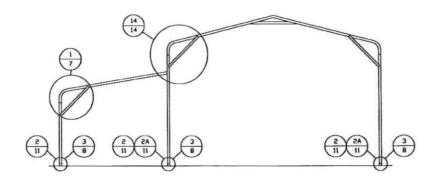


12 SIDE EXTENSION RAFTER/COLUMN DETAIL

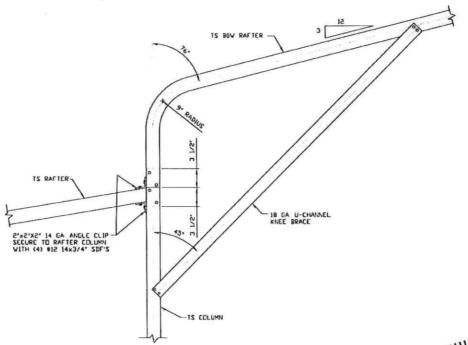


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BOW RAFTER LEAN-TO OPTION



TYPICAL BOW RAFTER LEAN-TO OPTION FRAMING SECTION



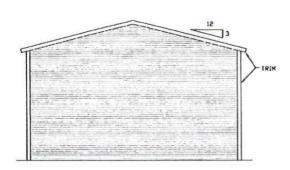
LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL

SCALE: NTS

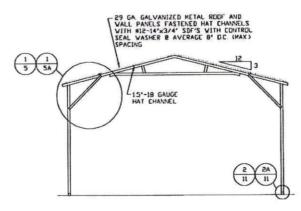


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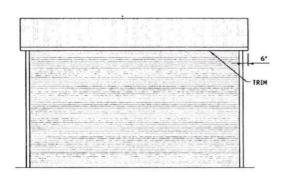
BOX EAVE RAFTER VERTICAL ROOF OPTION



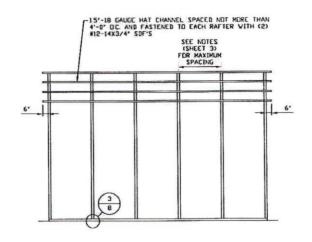
TYPICAL END ELEVATION VERTICAL ROOF
SCALE: NTS



TYPICAL SECTION
VERTICAL ROOF OPTION
SCALE: NTS



TYPICAL SIDE ELEVATION VERTICAL ROOF
SCALE: NTS

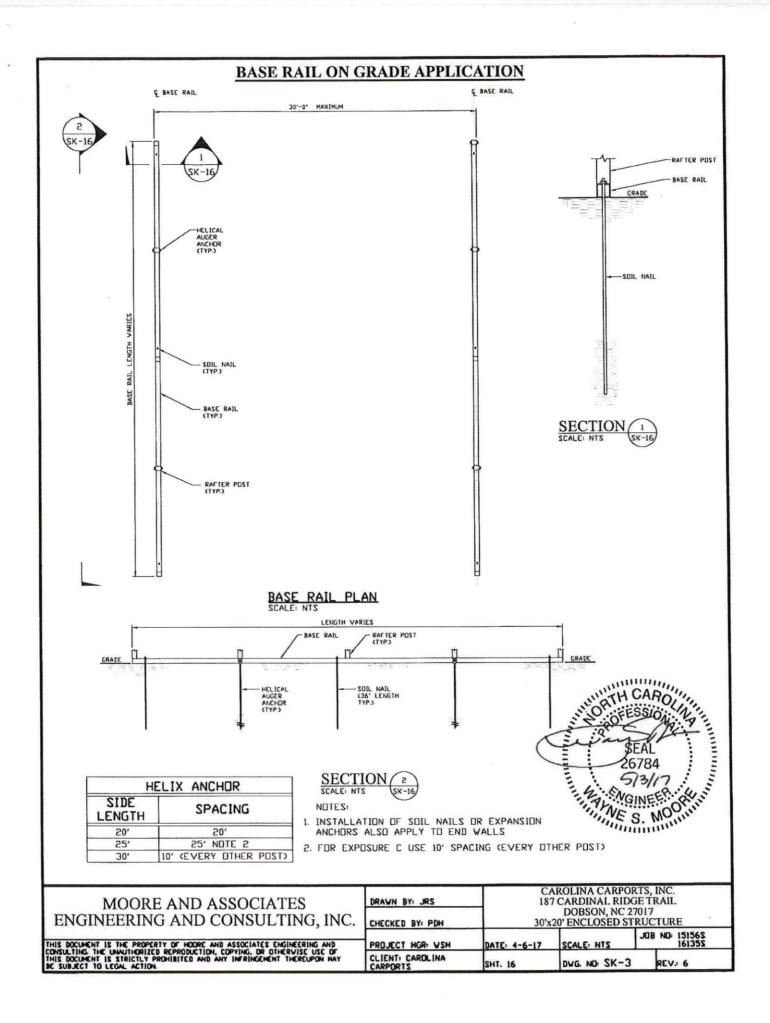


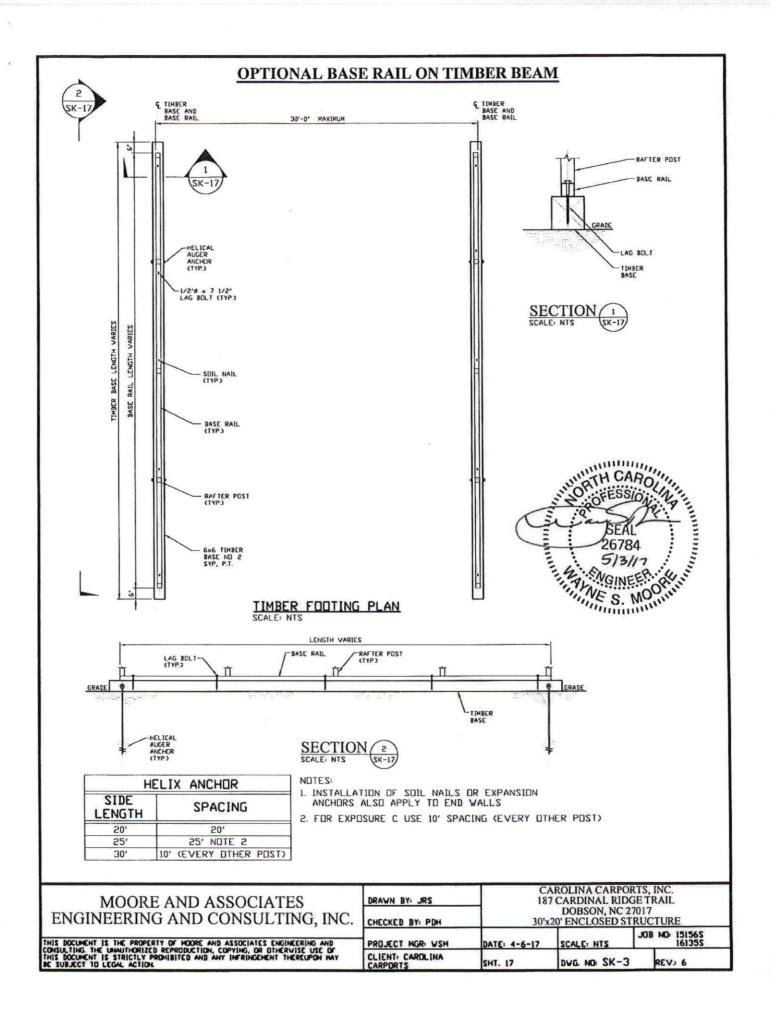
TYPICAL FRAMING SECTION VERTICAL ROOF OPTION

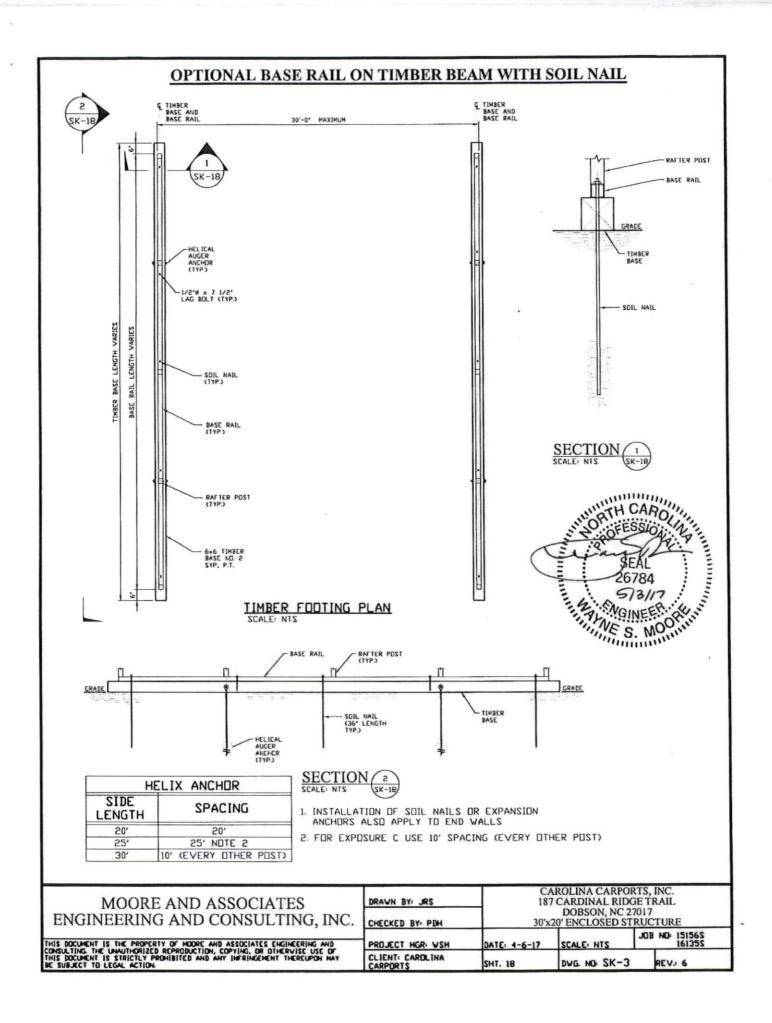


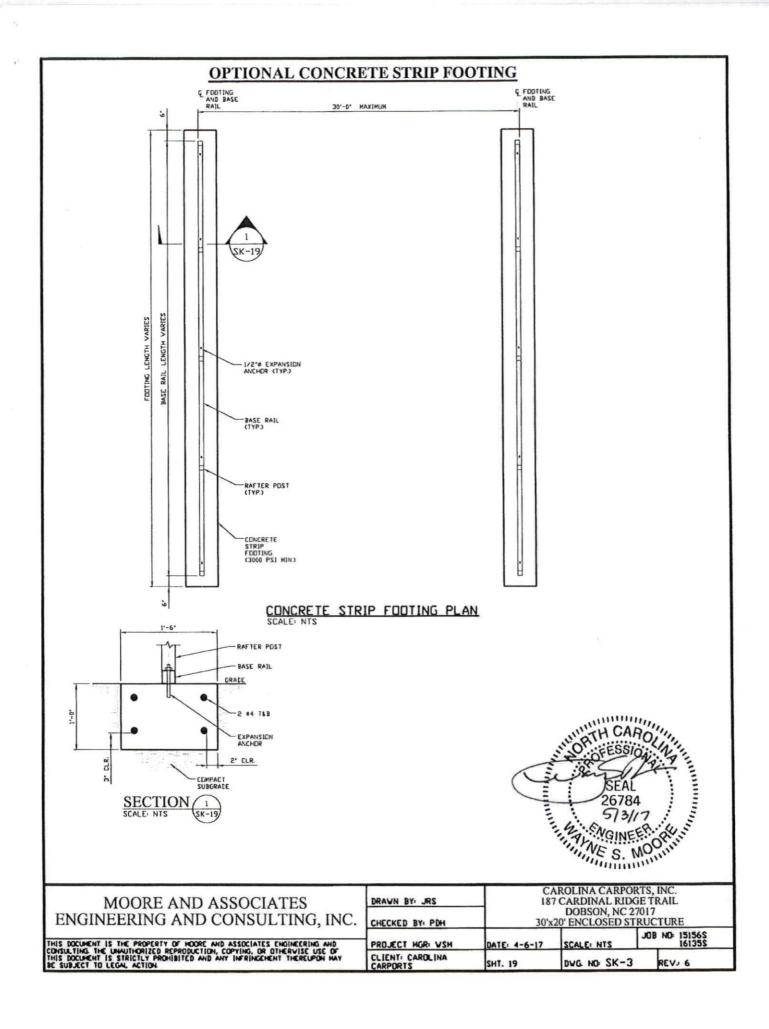
ROOF PANEL ATTACHMENT
(ALTERNATE FOR VERTICAL ROOF PANELS)

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	CLIENT: CAROLINA CARPORTS	SHT. 15	DVG. NO: SK-	3	REV. 6		

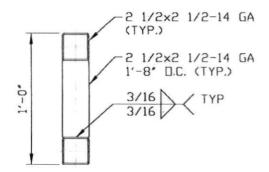






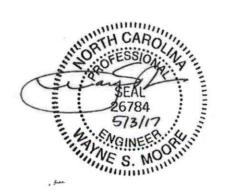


OPTIONAL DOOR HEADER



HEADER DETAIL FOR DOOR OPENINGS 12'S LENGTH \$20'

SCALE: NTS



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