



Longfellow Design Build
13 Over Jordan Rd
Wareham MA 02571

STRUCTURAL DESIGN

ENCLOSED BUILDING

**MAXIMUM 70'- 0" WIDE X 20'- 0" EAVE HEIGHT-
BOX EAVE FRAME**

20 August 2019
Revision 5

M&A Project No. 180768/18168S/18254S/19174S

Prepared for:

Carport Central, Inc.
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Mount Airy, NC 27030

Prepared by:

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MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING

		<p>I HAVE RESEARCHED THIS CHAPTER AND THE LOUISIANA STATE UNIFORM CONSTRUCTION CODE AND TO THE BEST OF MY KNOWLEDGE AND BELIEF, THESE DRAWINGS ARE IN COMPLIANCE THEREWIT. I TAKE FULL RESPONSIBILITY FOR THE CONTENTS OF THESE PLANS.</p>	<p>CHAPTER AND THE LOUISIANA STATE UNIFORM CONSTRUCTION CODE AND TO THE BEST OF MY KNOWLEDGE AND BELIEF, THESE DRAWINGS ARE IN COMPLIANCE THEREWIT. I TAKE FULL RESPONSIBILITY FOR THE CONTENTS OF THESE PLANS.</p>

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<p>CLIENT: CARPORT CENTRAL</p>		<p>SHT. 1</p>	<p>DWG. NO: SK-3</p>	<p>REV: 3</p>		

			<p>I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the state of Minnesota.</p> <p>Signature: </p> <p>Typed or Printed Name: WAYNE S. MOORE</p> <p>Date: 6/21/19 License Number: 54715</p>
	<p>Professional Certification. I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 49744, Expiration Date 6/8/20</p>		<p>I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the state of Minnesota.</p> <p>Signature: </p> <p>Typed or Printed Name: WAYNE S. MOORE</p> <p>Date: 6/21/19 License Number: 54715</p>

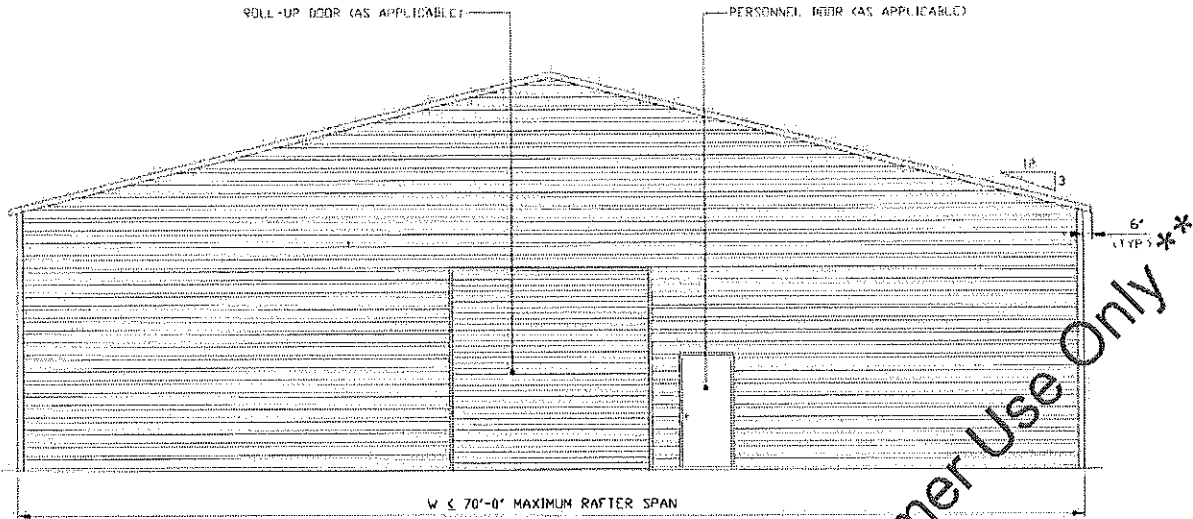
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INSTALLATION NOTES AND SPECIFICATIONS

- 1 DESIGN IS FOR MAXIMUM 70'-0" WIDE x 20'-0" EAVE HEIGHT ENCLOSED STRUCTURES
- 2 DESIGN WAS DONE IN ACCORDANCE WITH THE 2018 NORTH CAROLINA BUILDING CODE, 2018 INTERNATIONAL BUILDING CODE, 2006 IBC, 2009 IBC, 2012 IBC AND 2015 IBC
- 3 DESIGN LOADS ARE AS FOLLOWS
 - A) DEAD LOAD = 11.5 PSF
 - B) LIVE LOAD = 20 PSF
 - C) GROUND SNOW LOAD = 70 PSF
(UNBALANCED SNOW LOADS DUE TO DRIFTING HAVE NOT BEEN EVALUATED)
- 4 3-SECOND ULTIMATE WIND SPEED (V_{ULT}) 115 TO 155 MPH (NOMINAL WIND SPEED 89 TO 120 MPH)
- 5 MAXIMUM RAFTER/POST AND END POST SPACING = 4'-0" (UNLESS NOTED OTHERWISE)
- 6 END WALL COLUMN/POSTS ARE EQUIVALENT TO SIDE WALL COLUMN/POSTS IN SIZE AND SPACING (UNLESS NOTED OTHERWISE)
- 7 RISK CATEGORY II (OCCUPIED)
- 8 WIND EXPOSURE CATEGORY B/C
- 9 SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/4" x 2 1/4" - 12 GAUGE TUBE STEEL (TS) FRAMING MEMBERS (UNLESS NOTED OTHERWISE)
- 10 AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR HAT CHANNELS, AND COLUMNS (INTERIOR OR END) = 8" O.C. (MAX)
- 11 FASTENERS CONSIST OF #12-14x3/4" SELF-DRILLING FASTENER (SDF), USE CONTROL SEAL WASHER WITH EXTENDED FASTENERS SPECIFICATIONS APPLICABLE ONLY FOR MEAN ROOF HEIGHT OF 20 FEET OR LESS, AND ROOF SLOPES OF 14% (ONE PITCH) OR LESS SPACING REQUIREMENTS FOR OTHER ROOF HEIGHTS AND/OR SLOPES MAY VARY
- 12 GROUND ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6" OF EACH RAFTER COLUMN ALONG SIDES
- 13 WIND FORCES GOVERN OVER SEISMIC FORCES SEISMIC PARAMETERS ANALYZED ARE:
 - SOIL SITE CLASS = D
 - RISK CATEGORY I/II/III
 - R = 3.25 I_e = 10
 - S_{DS} = 2.039 V = C_sW
 - S_{D1} = 1.258
- 14 MAXIMUM THRESHOLD HEIGHT IS 1/2" FOR PERSONNEL DOORS UTILIZED AS MEANS OF EGRESS

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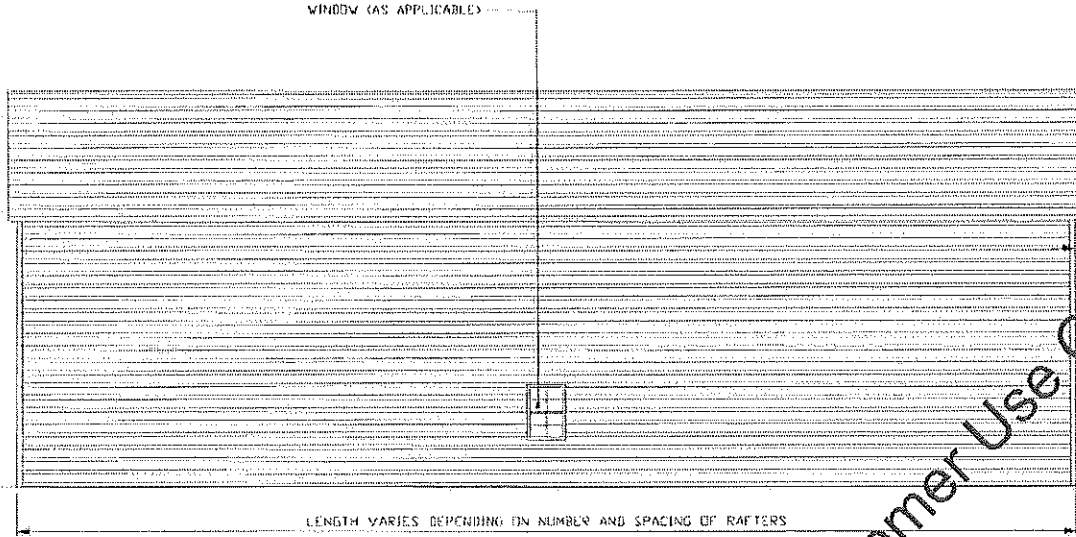
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	CLIENT: CARPORT CENTRAL	SHT. 3	DWG. NO: SK-3	REV: 3



TYPICAL END ELEVATION
SCALE: NTS

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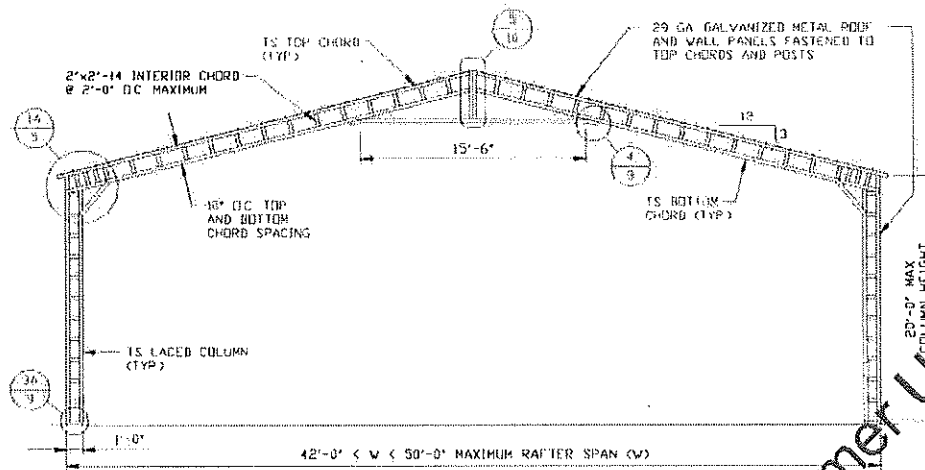
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TYPICAL SIDE ELEVATION
SCALE: NTS

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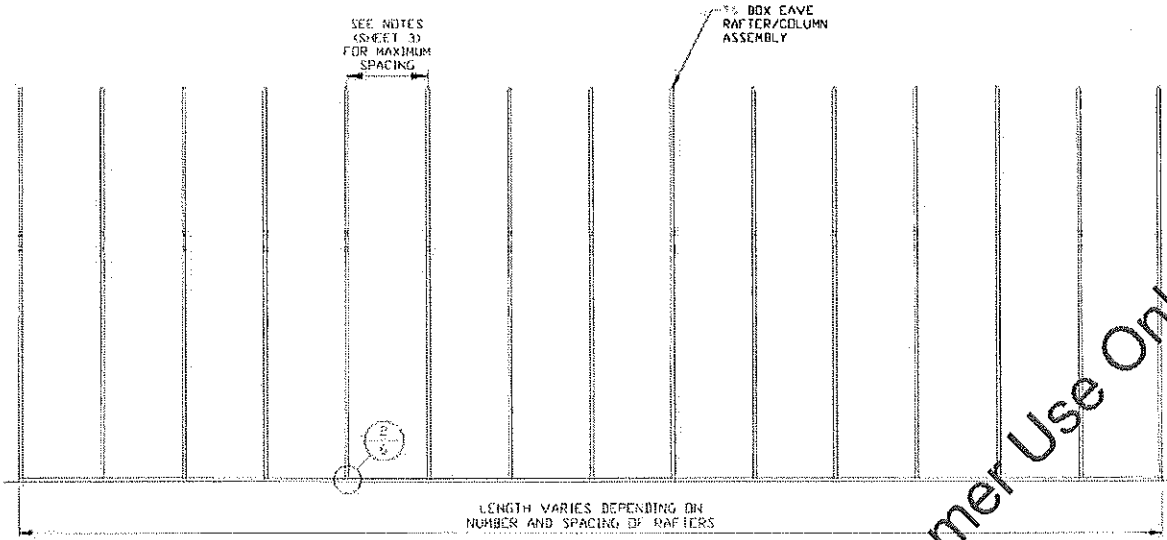
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TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS

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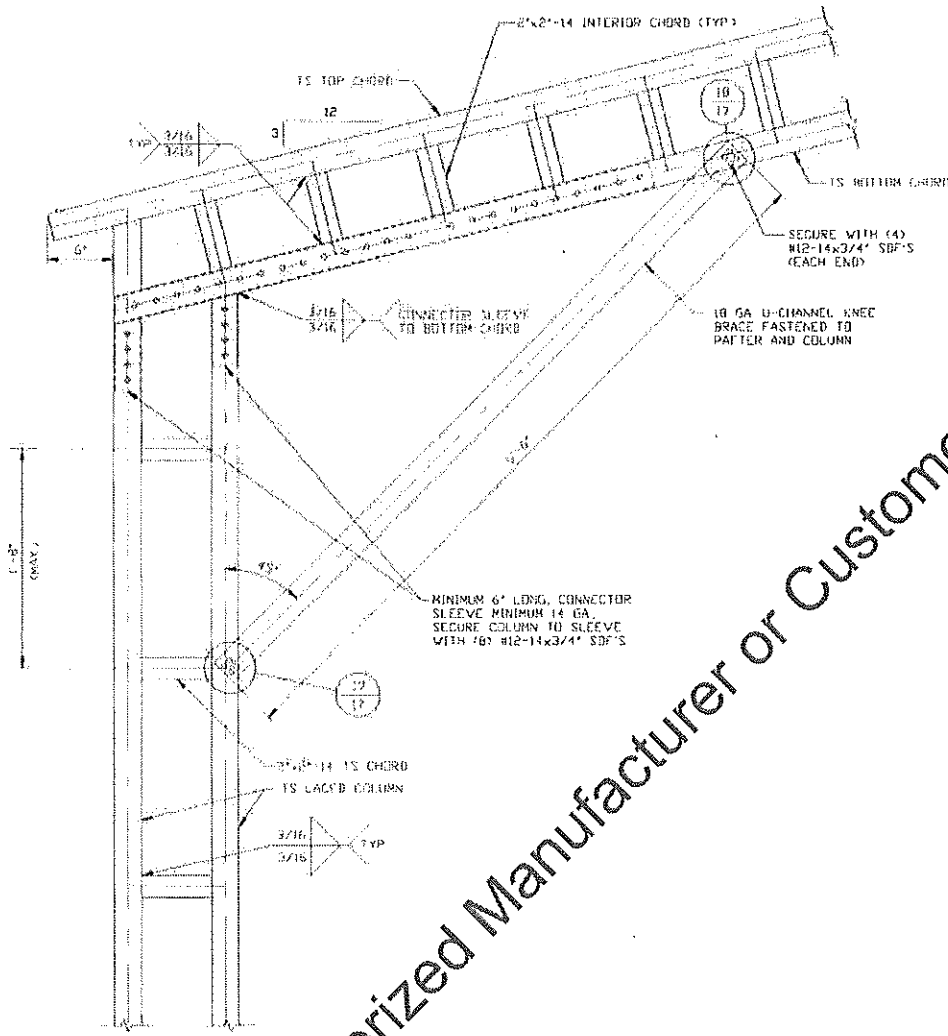


TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
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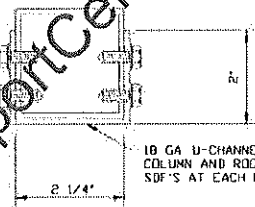
COLUMN CONNECTION DETAILS



BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 11'-0" TO ≤ 20'-0"

1A

SCALE: NTS

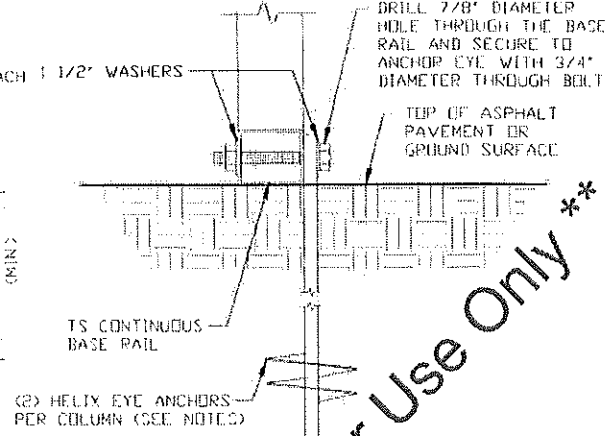
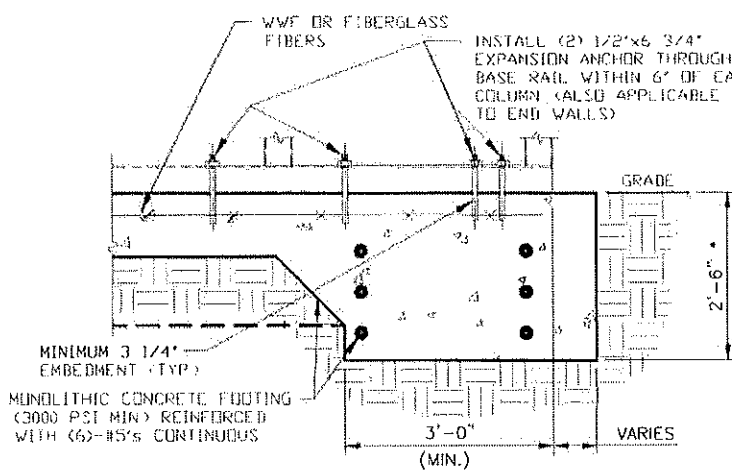


BRACE SECTION
SCALE: NTS

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BASE RAIL ANCHORAGE OPTIONS



2A CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE
 SCALE: NTS
 NOTE: MIN ANCHOR EDGE DISTANCE IS 4"
 * COORDINATE WITH LOCAL CODES/ORDINANCES

2B GROUND BASE HELIX ANCHORAGE
 SCALE: NTS
 (CAN BE USED FOR ASPHALT)

GENERAL NOTES

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

CONCRETE:

CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS

COVER OVER REINFORCING STEEL:

FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318
 3" IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH OR WEATHER, AND 1 1/2" ELSEWHERE

REINFORCING STEEL:

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

REINFORCEMENT MAY BE BENT IN THE SHOP OR THE FIELD PROVIDED:

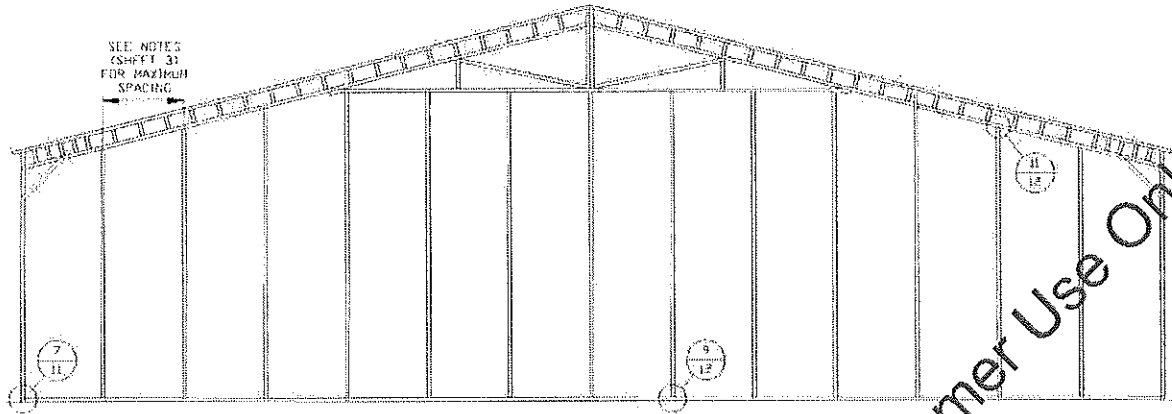
- 1 REINFORCEMENT IS BENT COLD
- 2 THE DIAMETER OF THE BEND, MEASURED TO THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS
- 3 REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT

HELIX ANCHOR NOTES:

- 1 FOR VERY DENSE AND/OR CEMENTED SANDS, COARSE GRAVEL AND COBBLES, CALICHE, UNLOADED 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 LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER CLAYS AND SILTS, ALLUVIAL FILL, USE MINIMUM (2) 8" HELICES WITH MINIMUM 60" EMBEDMENT

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BOX EAVE RAFTER END WALL



TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION
 SCALE: NTS

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SHT. 7

SCALE: NTS

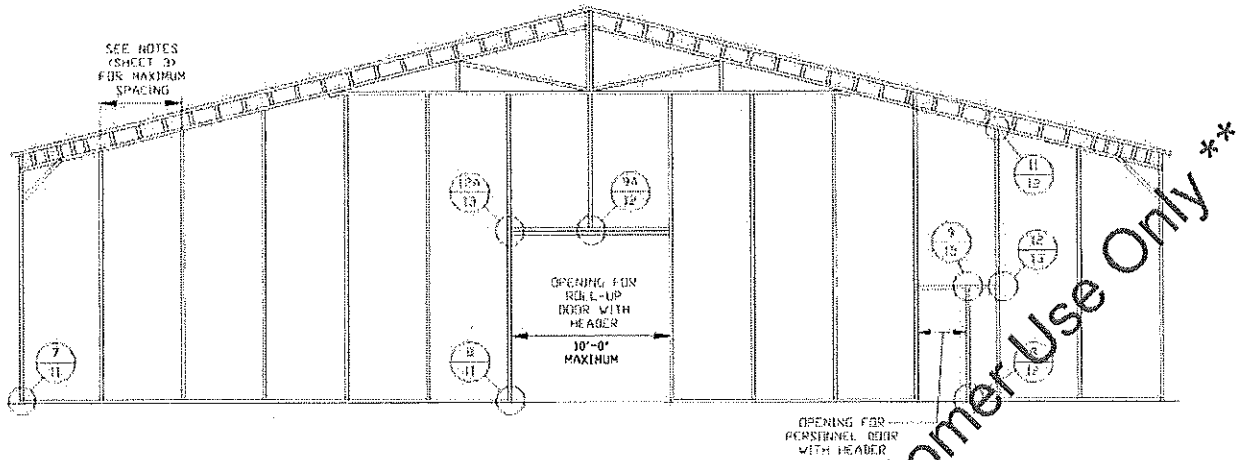
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BOX EAVE RAFTER END WALL OPENINGS

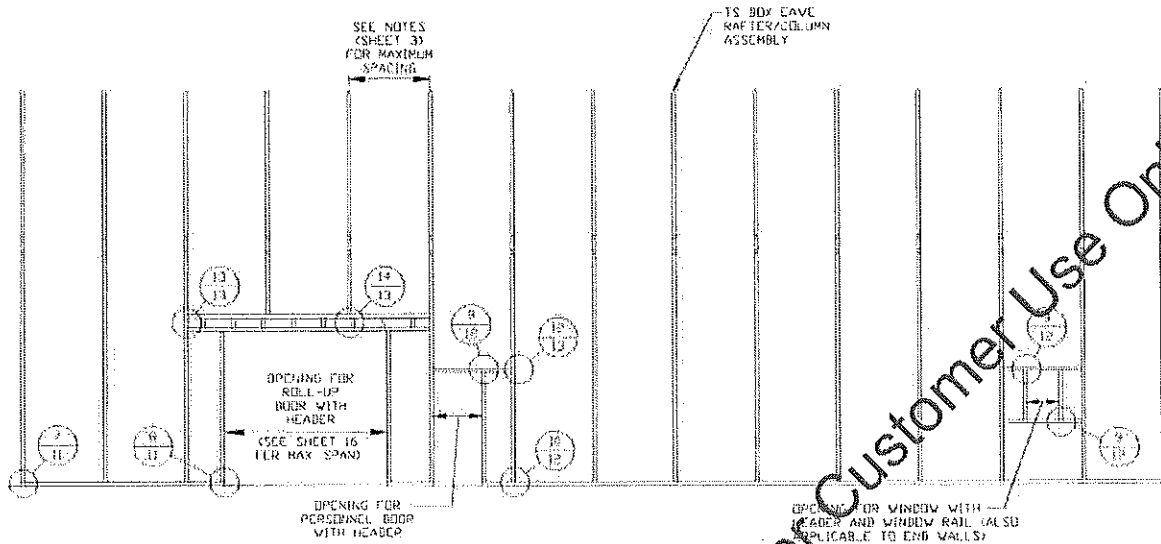


TYPICAL BOX EAVE RAFTER END WALL OPENING FRAMING SECTION
SCALE: NTS

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BOX EAVE RAFTER SIDE WALL OPENINGS

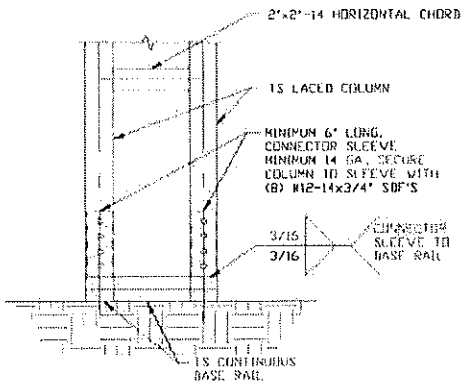


TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION
SCALE: NTS

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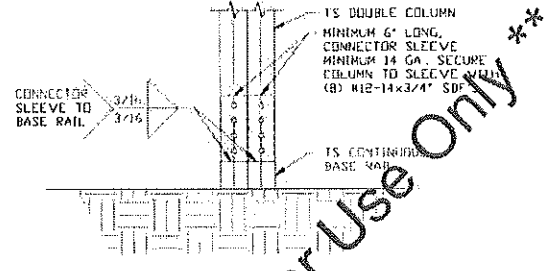
CONNECTION DETAILS



3A

RAFTER COLUMN/BASE RAIL CONNECTION DETAIL

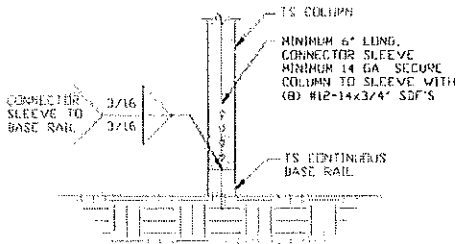
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3B

RAFTER COLUMN/BASE RAIL CONNECTION DETAIL

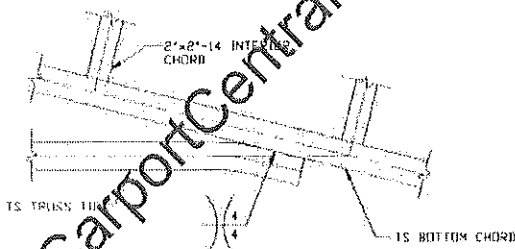
SCALE: NTS



3C

RAFTER COLUMN/BASE RAIL CONNECTION DETAIL

SCALE: NTS



4

TRUSS TIE CONNECTION DETAIL

SCALE: NTS

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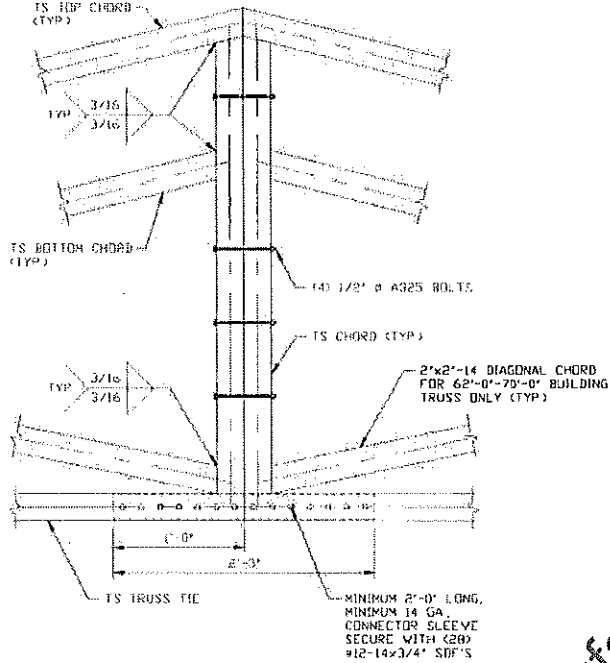
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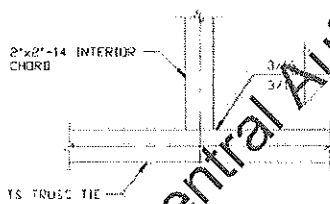
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CONNECTION DETAILS



5 TRUSS SPLICE CONNECTION DETAIL
SCALE: NTS



6 TRUSS TIE/INTERIOR CHORD CONNECTION DETAIL
SCALE: NTS

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SHT. 10

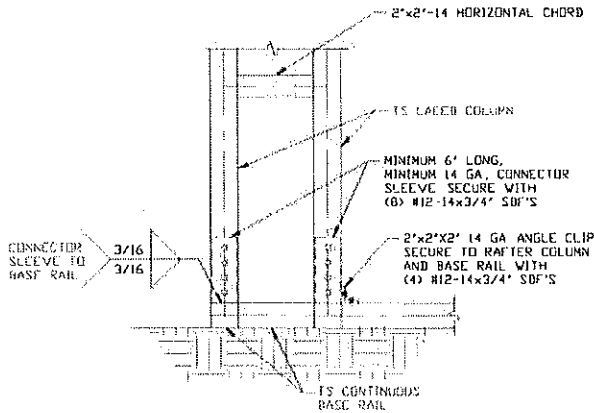
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REV. 3

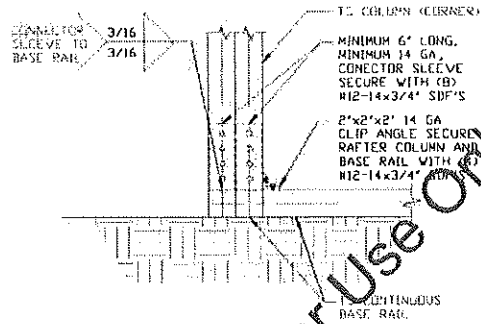
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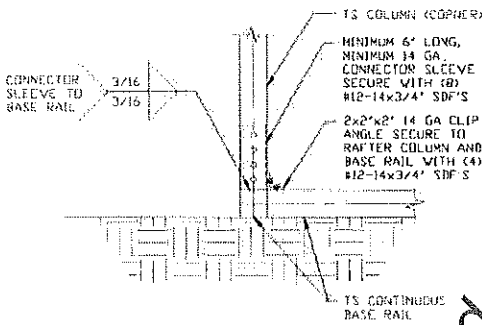
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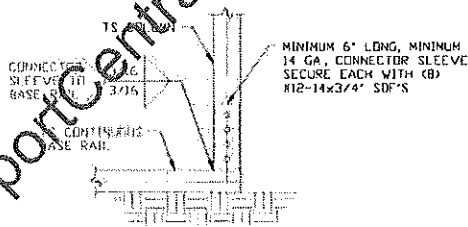
7 END COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



7A END COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



7B END COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



8 COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS

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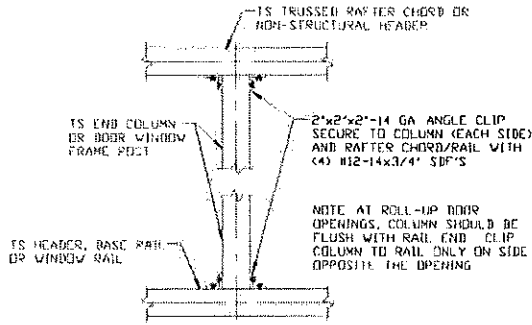
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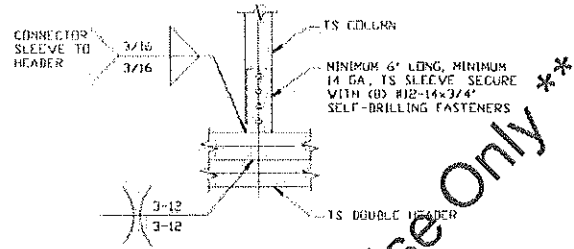
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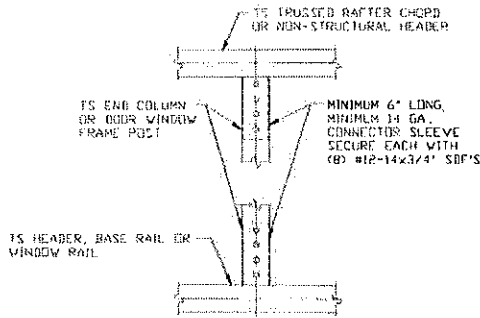
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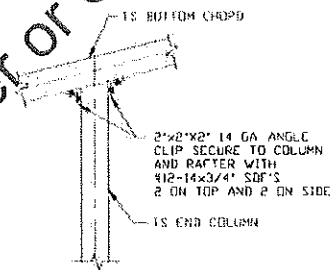
9 COLUMN TO WINDOW RAIL CONNECTION DETAIL
SCALE: NTS



9A COLUMN TO HEADER OR BASE RAIL CONNECTION DETAIL
SCALE: NTS



10 COLUMN TO HEADER OR BASE RAIL CONNECTION DETAIL
SCALE: NTS

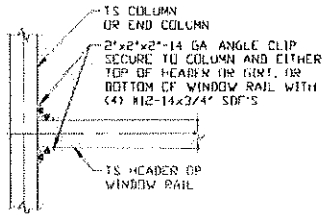


11 CHORD TO POST CONNECTION DETAIL
SCALE: NTS

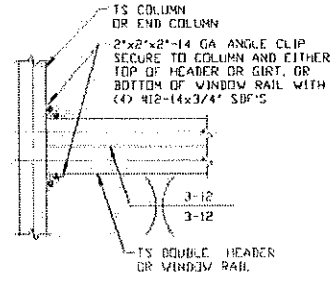
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	CLIENT: CARPORT CENTRAL	SHT. 12	DWG. NO: SK-3	REV: 3

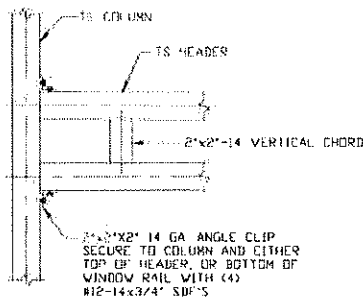
CONNECTION DETAILS



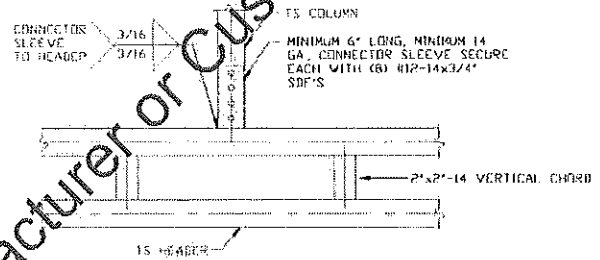
12 COLUMN OR WINDOW RAIL TO POST CONNECTION DETAIL
SCALE: NTS



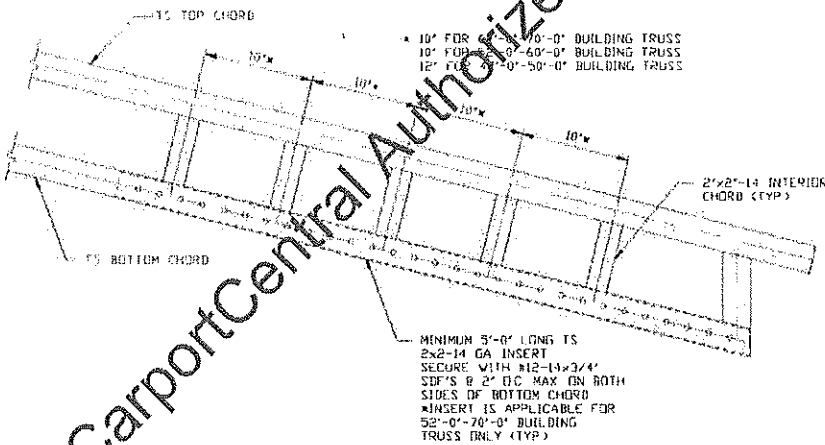
12A COLUMN OR WINDOW RAIL TO POST CONNECTION DETAIL
SCALE: NTS



13 HEADER TO COLUMN CONNECTION DETAIL
SCALE: NTS



14 COLUMN TO HEADER CONNECTION DETAIL
SCALE: NTS



15 BOTTOM CHORD TO INSERT CONNECTION DETAIL
SCALE: NTS
U-CHANNEL BRACE AND COLUMN ARE NOT SHOWN FOR CLARITY

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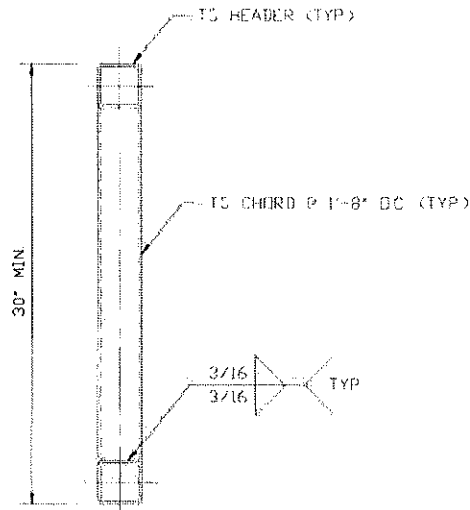
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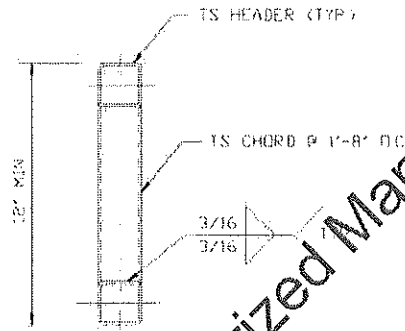
PROJECT MGR: WSM
CLIENT: CARPORT CENTRAL

DATE: 8-20-19
SHT. 13
SCALE: NTS
DWG. NO: SK-3
JDB NO: 18076S/18168S
18254S/19174S
REV: 3

HEADER OPTIONS



HEADER DETAIL FOR SPANS 12'-0" < TO < 20'-0"
SCALE: NTS



HEADER DETAIL FOR SPANS < 10'-0"
SCALE: NTS

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	CLIENT: CARPORT CENTRAL		SHT: 16	DWG. NO: SK-3
			REV: 3	JOB NO: 18076S/18168S 18254S/19174S