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 IBC, 2015 IBC, 2012 IBC, 2019 IBC AND 2021 IBC 2009 IBC, AND 2006 IBC.
- 3. DESIGN LOADS ARE AS FOLLOWS:
 - A) DEAD LOAD
- = 1.5 PSF
- B) LIVE LOAD
- = 12 PSF
- C) GROUND SNOW LOAD = 35 PSF (UNBALANCED SNOW LOAD DUE TO DRIFTING HAS NOT BEEN EVALUATED).
- 4. ULTIMATE WIND SPEED 105 TO 145 MPH (NOMINAL WIND SPEED 81 TO 112 MPH) MAXIMUM RAFTER/POST AND END COLUMN SPACING = 5.0 FEET.
- 5. END WALL COLUMNS (POST) ARE EQUIVALENT IN SIZE AND SPACING TO SIDE WALL POSTS (UNLESS NOTED OTHERWISE).
- 6. RISK CATEGORY I.
- 7 WIND EXPOSURE CATEGORY B.
- 8. SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/2'x2 1/2'-14 GAUGE TUBE STEEL (TS) FRAMING MEMBERS (UNLESS NOTED OTHERWISE). WHERE TS 2 1/2' x 2 1/2' 14 GAUGE IS SPECIFIED, TS 2 1/4' x 2 1/4' 12 GAUGE MAY BE USED AS AN OPTION.
- 9 AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR HAT CHANNELS, AND COLUMNS (INTERIOR OR END) = 10° D.C. (MAX.)
- 10. 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, ROOFING WITH SLOPES LESS THAN 3:12 MUST BE LAP SEALANT.
- 11 ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6' OF EACH RAFTER COLUMN ALONG SIDES.
- 12 GROUND ANCHORS (SOIL NAILS) CONSIST OF #4 REBAR W/ WELDED NUT × 36' LONG AND MAY ONLY BE USED IN SUITABLE SOILS. HELIX ANCHORS, SEE DETAIL 2B, MAY BE USED IN SUITABLE SOILS AND MUST BE USED IN UNSUITABLE SOILS AS NOTED.
- 13. WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE: SDIL SITE CLASS = D RISK CATEGORY I

R= 325

 $I_E = 1.0$

S_{DS}= 2.339

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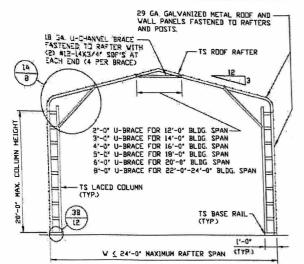
DRAWING INDEX

SHEET	1	PE SEAL COVER SHEET (1 OF 2)
SHEET	1A	PE SEAL COVER SHEET (2 OF 2)
SHEET	2	DRAWING INDEX
SHEET		INSTALLATION NOTES AND SPECIFICATIONS
SHEET		TYPICAL SIDE AND END ELEVATIONS
SHEET	5	TYPICAL RAFTER/COLUMN END FRAMING SECTION
SHEET	54	(BOX EAVE RAFTER)
SHELF	JH	TYPICAL RAFTER/COLUMN END AND SIDE FRAMING SECTION (BOX EAVE RAFTER)
SHEET	6	COLUMN CONNECTION DETAILS (BOX EAVE STRUCTURE)
SHEET	6A	COLUMN CONNECTION DETAILS (BOX EAVE STRUCTURE)
SHEET	7	TYPICAL RAFTER/COLUMN END FRAMING SECTION
0.155		(BOW RAFTER)
SHEET	/A	TYPICAL RAFTER/COLUMN END AND SIDE FRAMING SECTION (BOW RAFTER)
SHEET	8	COLUMN CONNECTION DETAILS (BOW RAFTER STRUCTURE)
SHEET	84	COLUMN CONNECTION DETAILS (BOW RAFTER STRUCTURE)
SHEET	9	BASE RAIL ANCHORAGE OPTIONS
SHEET	10	TYPICAL END WALL AND SIDE WALL FRAMING SECTIONS (BOX EAVE)
SHEET	11	TYPICAL END WALL AND SIDE WALL FRAMING SECTIONS (BOW RAFTER)
SHEET	12	CONNECTION DETAILS
SHEET		CONNECTION DETAILS
SHEET		CONNECTION DETAILS
SHEET	8 8	CONNECTION DETAILS
SHEET		LEAN-TO OPTIONS (BOX EAVE RAFTER)
SHEET		LEAN-TO OPTIONS (BOX EAVE RAFTER)
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SHEET	19	VERTICAL ROOF/SIDING OPTION END AND SIDE
		ELEVATION AND SECTION

HEADER OPTIONS

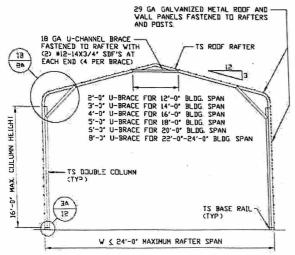
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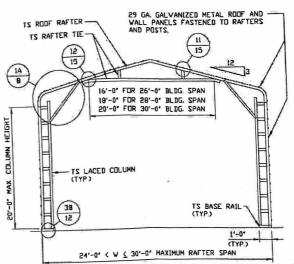
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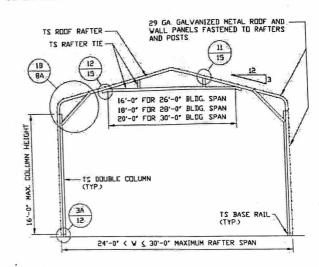
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TYPICAL RAFTER/COLUMN END FRAME SECTION

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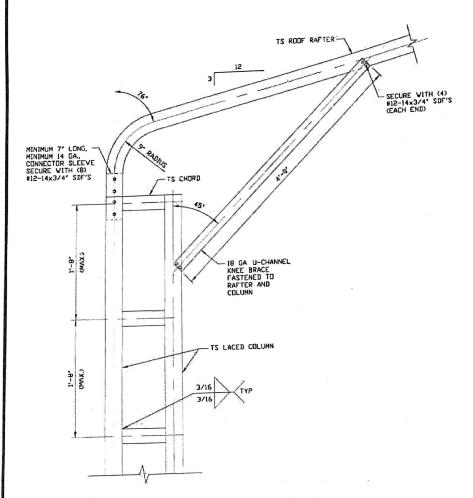
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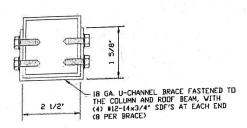
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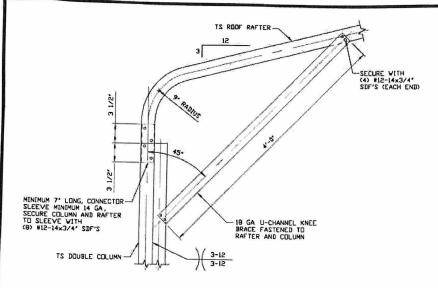


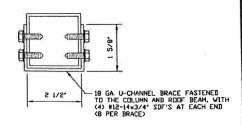
BOW EAVE RAFTER COLUMN CONNECTION
DETAIL FOR HEIGHTS 16'-0' < TO \(\lefta \) 20'-0"



BRACE SECTION
SCALE: NTS

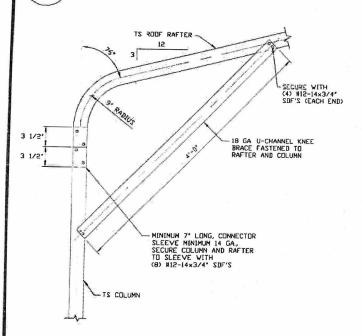
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BRACE SECTION

BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 12'-0' < TO < 16'-0"



BOW EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS \(\) 12'-0'

SCALE NTS

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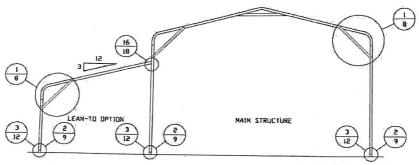
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BOW EAVE RAFTER LEAN-TO OPTION



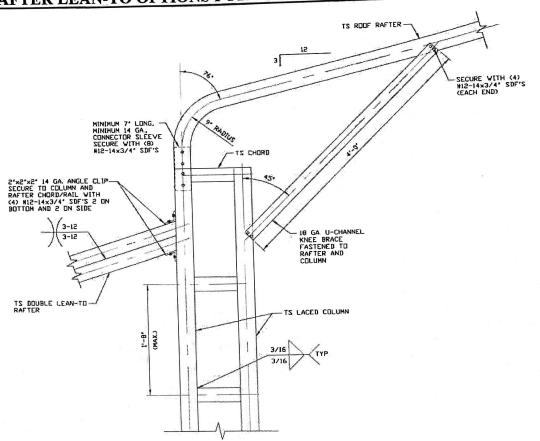
TYPICAL BOW RAFTER LEAN-TO OPTION FRAMING SECTION

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NC. ROAD

BOW EAVE RAFTER LEAN-TO OPTIONS FOR RAFTER SPANS 12'-0" < TO ≤ 16'-0"



SIDE EXTENSION RAFTER/
COLUMN DETAIL FOR
HEIGHTS 16'-0' < TO < 20'-0'
SCALE NTS

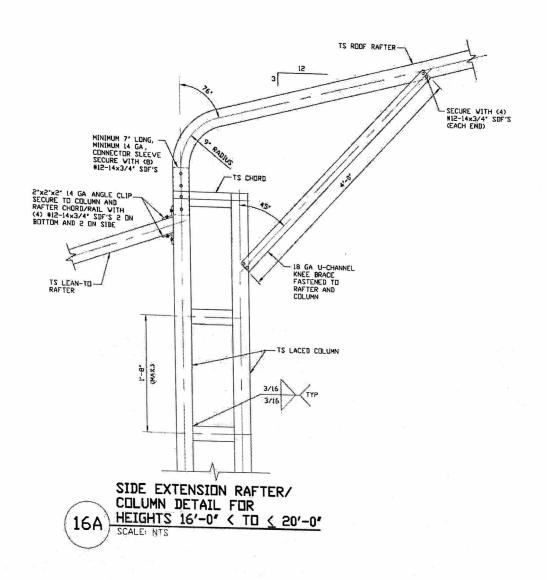
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	MOUNT AIRY, NC 27030
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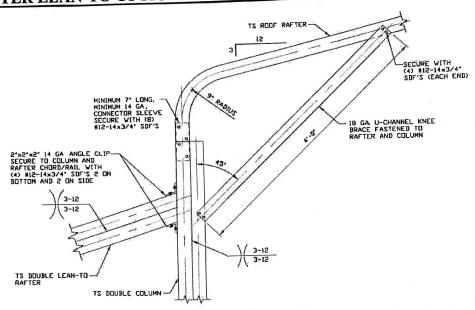
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BOW EAVE RAFTER LEAN-TO OPTIONS FOR RAFTER SPANS ≤ 12'-0"

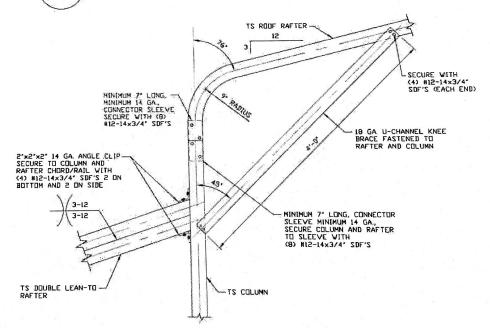


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BOW EAVE RAFTER LEAN-TO OPTIONS FOR RAFTER SPANS 12'-0" < TO ≤ 16'-0"



SIDE EXTENSION RAFTER/
COLUMN DETAIL FOR
HEIGHTS 12'-0' < TO < 16'-0'
SCALE: NTS

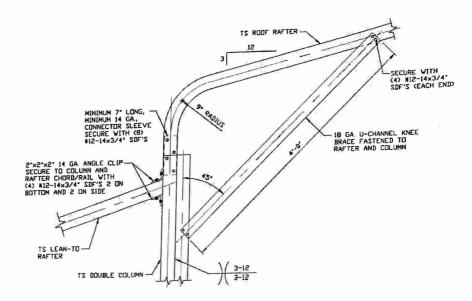


SIDE EXTENSION RAFTER/
COLUMN DETAIL FOR
HEIGHTS & 12'-0'
SCALE NTS

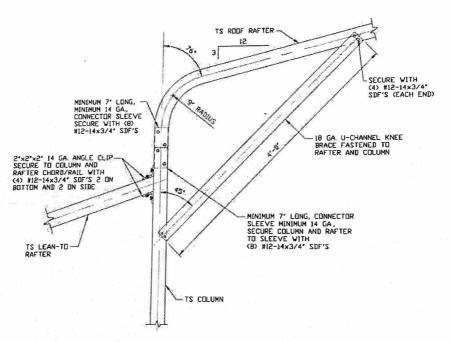
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BOW EAVE RAFTER LEAN-TO OPTIONS FOR RAFTER SPANS ≤ 12'-0"



SIDE EXTENSION RAFTER/
COLUMN DETAIL FOR
HEIGHTS 12'-0' < TO < 16'-0'
SCALE: NTS

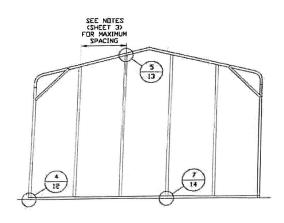


SIDE EXTENSION RAFTER/ COLUMN DETAIL FOR HEIGHTS & 12'-0'

NOTE: 2'-0' KNEE BRACE MAY BE USED FOR BUILDING WIDTHS < 24'-0'.

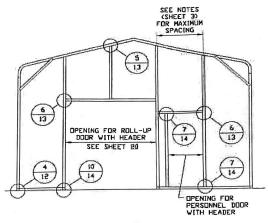
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BOW RAFTER END WALL AND SIDE WALL OPENINGS



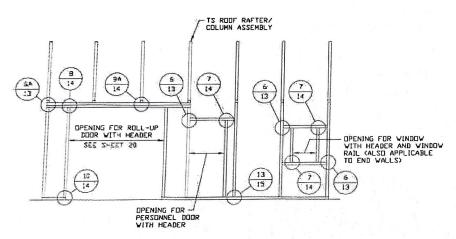
TYPICAL BOW RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BOW RAFTER END WALL OPENINGS FRAMING SECTION

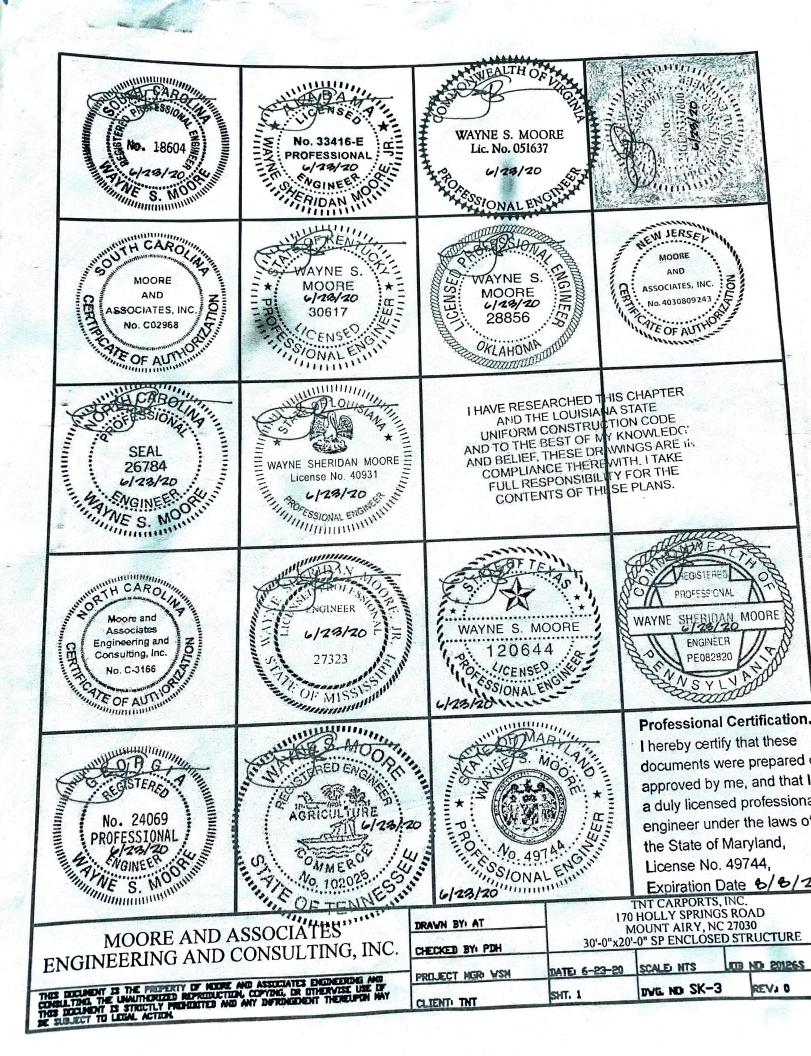
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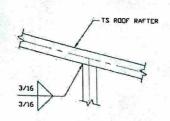
TYPICAL BOW RAFTER SIDE WALL OPENINGS FRAMING SECTION

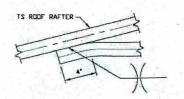
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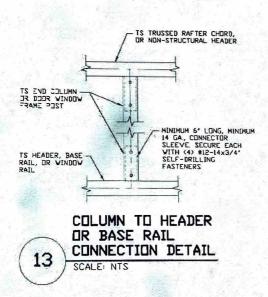
CONNECTION DETAILS





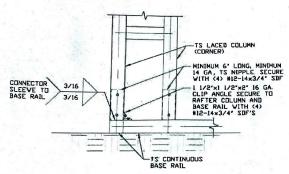
RAFTER TO CHORD CONNECTION DETAIL
SCALE NTS

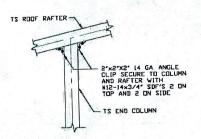
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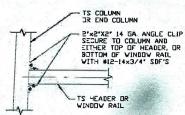


END COLUMN/BASE RAIL CONNECTION DETAIL

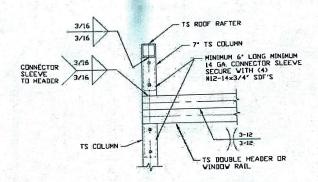
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5 END COLUMN/RAFTER CONNECTION DETAIL

SCALE: NTS



COLUMN OR WINDOW RAIL/GIRT TO POST CONNECTION DETAIL



COLUMN OR WINDOW RAIL TO POST CONNECTION DETAIL

SCALE: NTS

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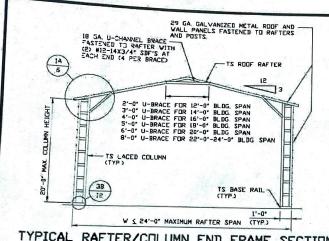
TNT CARPORTS, INC.
170 HOLLY SPRINGS ROAD
MOUNT AIRY, NC 27030
CHECKED BY: PDH 30'-0"x20'-0" SP ENCLOSED STRUCTURE
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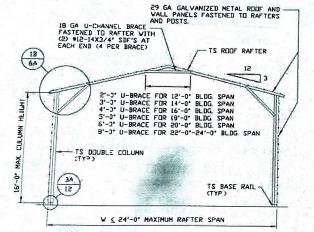
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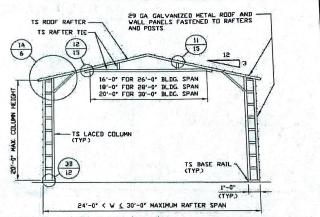
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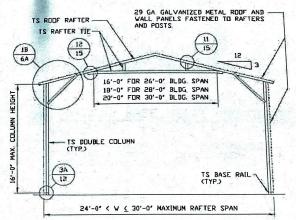
TYPICAL RAFTER/COLUMN END FRAME SECTION



TYPICAL RAFTER/COLUMN END FRAME SECTION



TYPICAL RAFTER/COLUMN END FRAME SECTION



TYPICAL RAFTER/COLUMN END FRAME SECTION SCALE: NTS

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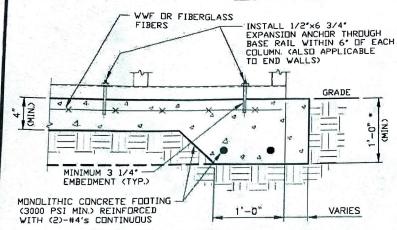
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BASE RAIL ANCHORAGE OPTIONS





CONCRETE MONOLITHIC SLAB BASE RAIL ANCHURAGE

SCALE: NTS MINIMUM ANCHOR EDGE DISTANCE IS 4".

COORDINATE WITH LOCAL BUILDING CODE AND/OR BUILDING OFFICIAL REGARDING REQUIRED FOOTING DEPTH.

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.

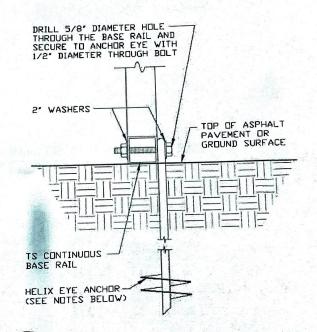
REINFORCEMENT MAY BE BENT IN THE SHOP OR THE FIELD PROVIDED:

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.
- 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 3. FOR MEDIUM DENSE COARSE SANDS, SANDY GRAVELS, EMBEDMENT.
- FOR LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS ALLUVIAL FILL, USE MINIMUM (2) 6' HELICES WITH MINIMUM 50' EMBEDMENT
- CLAYS AND SILTS, ALLUVIAL FILL, USE MINIMUM (2) 8' HELICES WITH MINIMUM 60' EMBEDMENT.



2B

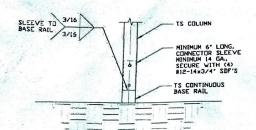
GROUND BASE HELIX ANCHURAGE (CAN BE USED FOR ASPHALT)

* COORDINATE WITH LOCAL BUILDING CODE AND/OR BUILDING OFFICIAL REGARDING REQUIRED FOOTING DEPTH.

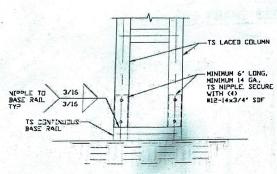
5. FOR VERY LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER

TNT CARPORTS, INC. MOORE AND ASSOCIATES DRAWN BY AT 170 HOLLY SPRINGS ROAD **MOUNT AIRY, NC 27030** ENGINEERING AND CONSULTING, INC. 30'-0"x20'-0" SP ENCLOSED STRUCTI CHECKED BY: PDH THES DECLINENT IS THE PROPERTY OF NEEDE AND ASSOCIATES ENGINEERING AND CONSULTING, THE UNAUTHORIZED REPREDUCTION, COPYING, OR OTHERVISE USE OF THES DECLINENT IS STRUCTLY PROHIBITED AND ANY INFROMEMENT THEREUPON MAY BE SUBJECT TO LEGAL ACTION. PROJECT MGR VSM 03 CM ED DATE: 6-23-20 SCALE NTS DAC NO 2K-3 SHT. 9 CLIENT: THE

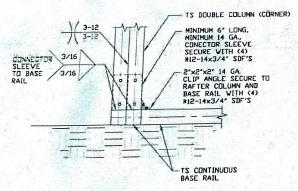
CONNECTION DETAILS



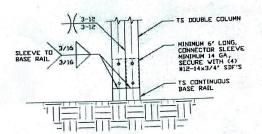
RAFTER COLUMN/BASE RAIL CONNECTION DETAIL 3



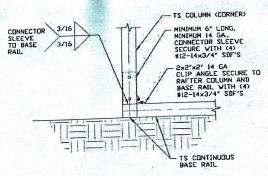
RAFTER COLUMN/BASE RAIL CONNECTION DETAIL **3B** SCALE: NTS



END COLUMN/BASE RAIL CONNECTION DETAIL 4A SCALE: NTS



RAFTER COLUMN/BASE RAIL CONNECTION DETAIL 3A SCALE: NTS

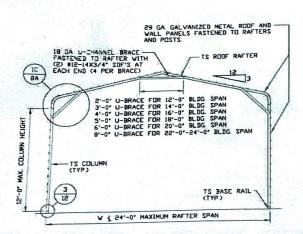


END COLUMN/BASE RAIL CONNECTION DETAIL SCALE: NTS

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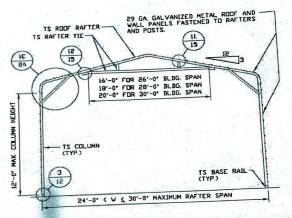
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E SUBJECT TO LEG	AL ASSESSMENT		

DRAWN BY AT	TNT CARPORTS, INC. 170 HOLLY SPRINGS ROAD MOUNT AIRY, NC 27030 30'-0"x20'-0" SP ENCLOSED STRUCTURE				
PROJECT MGR VSM	DATE: 6-23-20	SCALE NTS	Long	ND 201265	
CLIENT: THT	SHT. 12	DVG ND SK-	-3	REV. 0	

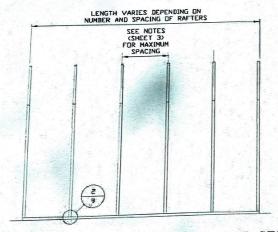


TYPICAL RAFTER/COLUMN END FRAME SECTION

SCALE: NTS



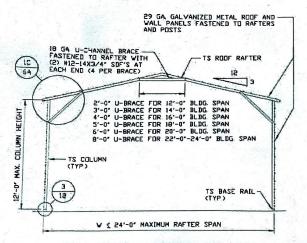
TYPICAL RAFTER/COLUMN END FRAME SECTION SCALE: NTS



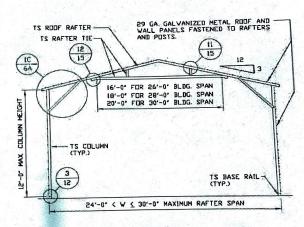
TYPICAL RAFTER/COLUMN FRAMING SIDE SECTION

SCALE: NTS

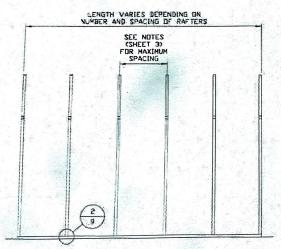
MOORE AND ASSOCIATES	DRAWN BY: AT	170	TNT CARPORT HOLLY SPRIN HOUNT AIRY, N P-0" SP ENCLOS	GS RO VC 270.	AD 30	
ENGINEERING AND CONSCIENT	PROJECT MER WSM				ND 501562	
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TYPICAL RAFTER/COLUMN END FRAME SECTION



TYPICAL RAFTER/COLUMN END FRAME SECTION
SCALE: NTS



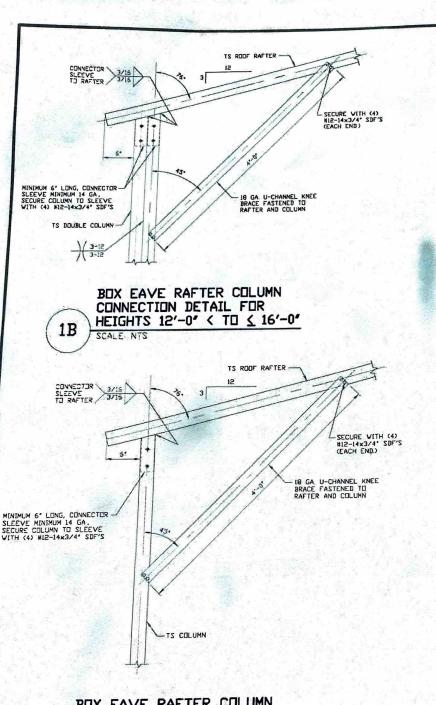
TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

SCALE: NTS

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CHECKED BY: PDH	MOUNT AIRY, NC 27030 30'-0"x20'-0" SP ENCLOSED STRUCTURE						
DRAWN BY: AT	TNT CARPORTS, INC. 170 HOLLY SPRINGS ROAD						



18 GA U-CHANNEL BRACE FASTENED
TO THE COLUMN AND ROUF BEAM, VITH
(4) NIZ-1432/4' SDF'S AT EACH END
(8) PER BRACE)

BRACE SECTION

SCALE: NTS

BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS & 12'-0'

SCALE NTS

1C

NOTE: 2'-0' KNEE BRACE MAY BE USED FOR BUILDING WIDTHS < 24'-0'.

MOORE AND ASSO	OCIATES
ENGINEERING AND CON	ISULTING, INC.

DRAWN BY: AT	
	١.
CHECKED BY: PDH	

TNT CARPORTS, INC.
170 HOLLY SPRINGS ROAD
MOUNT AIRY, NC 27030
30'-0"x20'-0" SP ENCLOSED STRUCTUR

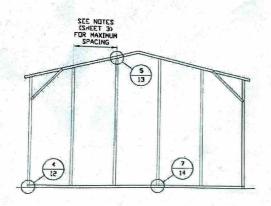
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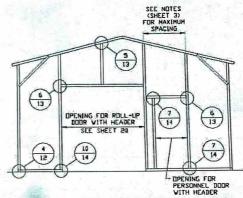
REV. 0

BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



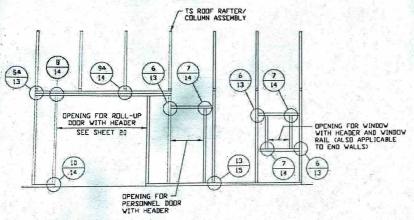
TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS



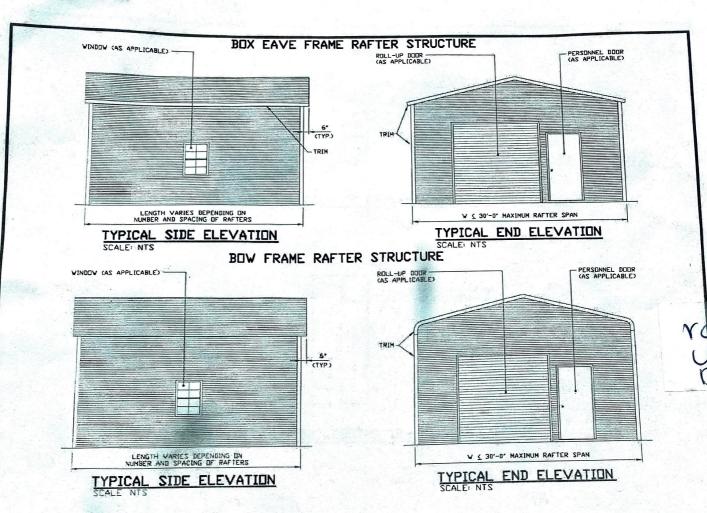
TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE: NTS

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	MOORE AND ASSOCIATES
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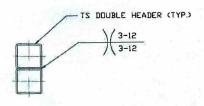
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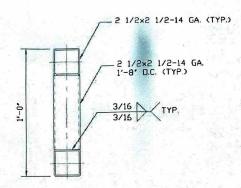
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MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: AT	TNT CARPORTS, INC. 170 HOLLY SPRINGS ROAD MOUNT AIRY, NC 27030 30'-0"x20'-0" SP ENCLOSED STRUCTURE			AD 30

SIDE WALL HEADER OPTIONS



HEADER DETAIL FOR LENGTHS & 12'-0'

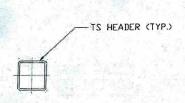
SCALE: NTS

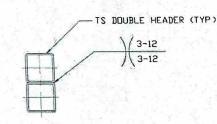


HEADER DETAIL FOR LENGTHS 12'-0' < TO < 14'-0"

SCALE: NTS

END WALL HEADER OPTION





HEADER DETAIL FOR LENGTHS < 12'-0"

HEADER DETAIL FOR LENGTHS 12'-0" < TO < 14'-0"

SCALE: NTS

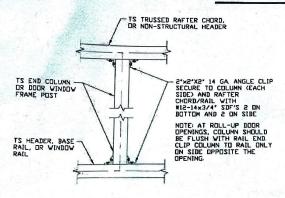
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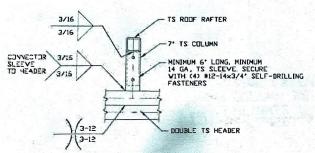
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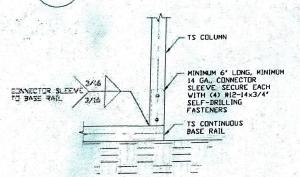
CONNECTION DETAILS



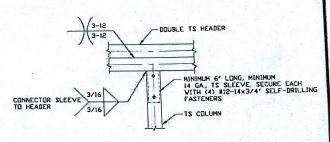
7 COLUMN TO WINDOW RAIL CONNECTION DETAIL SCALE: NTS



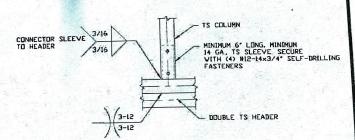
9A COLUMN/DOUBLE HEADER CONNECTION DETAIL SCALE: NTS



COLUMN/BASE RAIL
CONNECTION DETAIL
SCALE: NTS



8 DOUBLE HEADER/COLUMN CONNECTION DETAIL



9B COLUMN/DOUBLE HEADER
CONNECTION DETAIL
SCALE: NTS

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC

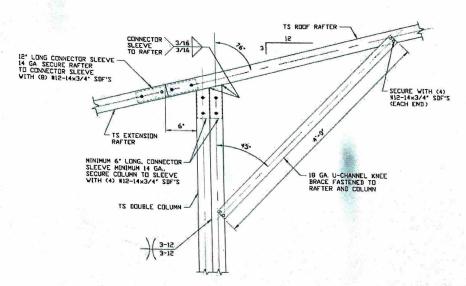
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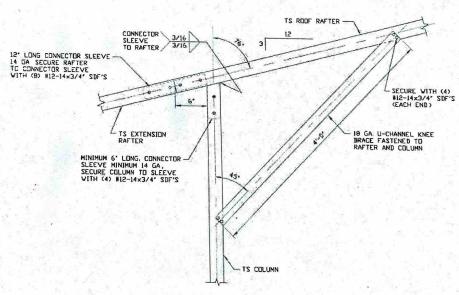
THE CAPPOPTS INC

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BOX EAVE RAFTER LEAN-TO OPTIONS FOR RAFTER SPANS ≤ 12'-0"



SIDE EXTENSION RAFTER/
COLUMN DETAIL FOR
HEIGHTS 12'-0' < TO < 16'-0'
SCALE NTS



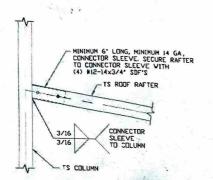
SIDE EXTENSION RAFTER/
COLUMN DETAIL FOR
HEIGHTS & 12'-0"

NOTE: 2'-0' KNEE BRACE MAY BE USED FOR BUILDING WIDTHS < 24'-0".

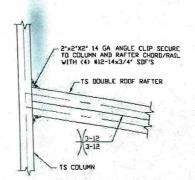
MOORE AND ASSOCIATES	DRAWN BY: AT	17	TNT CARPORTS 0 HOLLY SPRIN		
ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH		MOUNT AIRY, N 0'-0" SP ENCLOS	IC 2703	30
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BOX EAVE RAFTER LEAN-TO OPTIONS HAIN STRUCTURE EAN-TO OPTION (15) 15 15

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



LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS & 12'-0' 14A

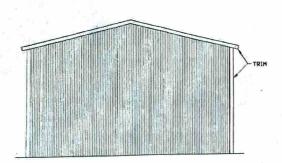


LEAN-TO RAFTER TO RAFTER
COLUMN CONNECTION DETAIL
FOR RAFTER SPANS 12'-0' < TO ≤ 16'-0' 14B SCALE: NTS

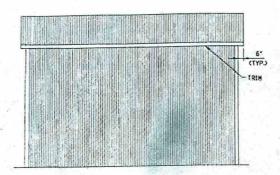
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ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH		MOUNT AIRY, 1'-0" SP ENCLOS	NC 27030 SED STRUCTURE
MOORE AND ASSOCIATES	DRAWN BY AT	170	TNT CARPOR	IGS ROAD

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BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



TYPICAL END ELEVATION VERTICAL ROOF/SIDING



TYPICAL SIDE ELEVATION VERTICAL ROOF/SIDING
SCALE: NTS

1'-18 GAUGE HAT CHANNEL SPACED AT 4'-0'
(MAX) D.C. AND FASTENED TO EACH RAFTER
VITH (2) NI2-14X3/4' SDF'S

TS VALL GIRT SPACED AT 4'-0'
(MAX) D.C. FASTENED TO EACH
COLUMN WITH (2) NI2-14X3/4' SDF'S

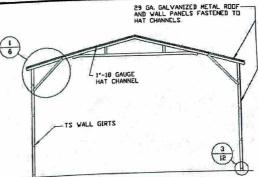
SEE NOTES
(SHEET 3)
FOR MAXIMUM
SPACING

6'
(TYP)

TYPICAL FRAMING SECTION VERTICAL ROOF/SIDING OPTION SCALE NTS

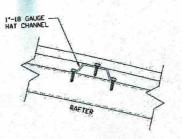
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TYPICAL SECTION VERTICAL ROOF/SIDING OPTION

SCALE: NTS

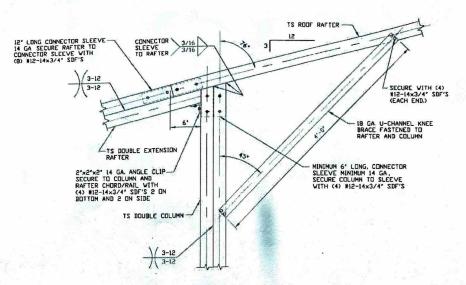


PANEL ATTACHMENT

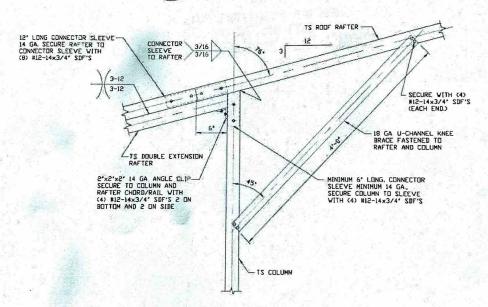
(ALTERNATE FOR VERTICAL ROOF PANELS)
SCALE: NTS

CLIENT: TNT	SHT. 19	DVG. ND SK-	-3	REV. 0
PROJECT NGR VSM	DATE: 6-23-20	SCALE: NTS	LOB	ND 201265
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DRAVN BY: AT	17	TNT CARPOR	NGS RC	DAD

BOX EAVE RAFTER LEAN-TO OPTIONS FOR RAFTER SPANS 12'-0" < TO ≤ 16'-0"



SIDE EXTENSION RAFTER/
COLUMN DETAIL FOR
HEIGHTS 12'-0" < TO < 16'-0"



SIDE EXTENSION RAFTER/COLUMN DETAIL FOR
HEIGHTS & 12'-0'
SCALE: NTS

NOTE: 2'-0" KNEE BRACE MAY BE USED FOR BUILDING WIDTHS < 24'-0".

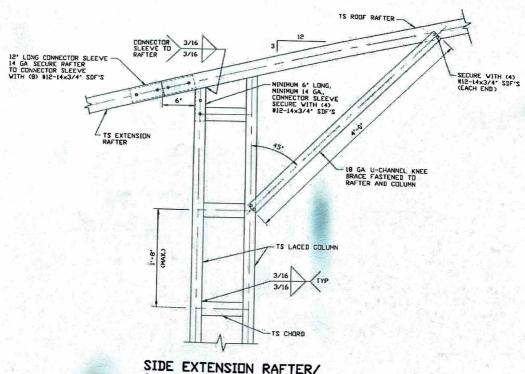
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PRELIECT HGRO WSM	DATE: 6-23-20	SCALE NTS	10B ND 201265

CLIENT: TNT SHT. 17C DVG. ND SK-3 REV. 0

BOX EAVE RAFTER LEAN-TO OPTIONS FOR RAFTER SPANS ≤ 12'-0"



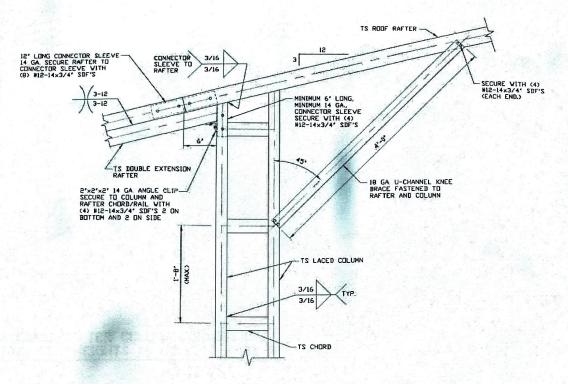
SIDE EXTENSION RAFTER/
COLUMN DETAIL FOR
HEIGHTS 16'-0" (TO < 20'-0"

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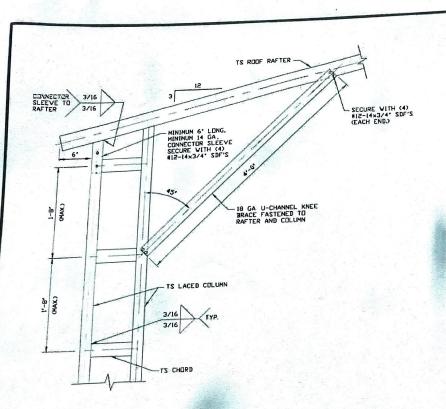
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<i>.</i>	CHECKED BY: PDH	MOUNT AIRY, NC 27030 30'-0"x20'-0" SP ENCLOSED STRUCTUR				
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BOX EAVE RAFTER LEAN-TO OPTIONS FOR RAFTER SPANS 12'-0" < TO ≤ 16'-0"

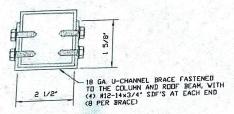


SIDE EXTENSION RAFTER/
COLUMN DETAIL FOR
HEIGHTS 16'-0' < TO < 20'-0'
SCALE: NTS

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MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	CHECKED BY: PIN	N	170 HOLLY SPRINGS ROAD MOUNT AIRY, NC 27030 30'-0"x20'-0" SP ENCLOSED STRUCTURI				
	3.1	TNT CARPORTS, INC.					



BOX EAVE RAFTER COLUMN CONNECTION
DETAIL FOR HEIGHTS 16'-0' < TO \(\lefta \) 20'-0'



BRACE SECTION
SCALE: NTS

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ENGINEERING THE COLOREST		DATE: 6-23-20	SCALE NTS	UCB NE	201265	
		MOUNT AIRY, NC 27030 30'-0"x20'-0" SP ENCLOSED STRUCTURE				
	DRAWN BY AT	TNT CARPORTS, INC. 170 HOLLY SPRINGS ROAD				