

Kempsville Sanford Component Plant 298 Harvey Faulk Rd Sanford, NC 27332

Phone #:919-775-1450

## **Builder: DRB HOMES**

# Model: 84 FaNC DRAYTON 3



## THE PLACEMENT PLAN NOTES:

1. The Placement Plan is a diagram for truss installation. It is not an engineered drawing and has not been reviewed by an engineer. The Owner/Building Designer is responsible for obtaining an engineer's review if one is required by the local jurisdiction.

2. The responsibilities of the Owner, Contractor, Building Designer, Component Designer and Component Manufacturer shall be as set forth in ANSI/TPI 1. Capitalized terms shall be as defined in ANSI/TP 1 unless otherwise indicated.

3. Each Component is designed as an individual component utilizing information provided by others. The Owner/Building Designer is responsible for reviewing all Component Submittal Packages and individual Component Design Drawings for compliance with the Construction Documents and compatibility with the overall Building design.

4. Contractor will not proceed with component installation until the Owner/Building Designer has reviewed the Component Submittal Package. Questions on the suitability of any Component will be resolved by the Building Designer.

5. The Building Designer and Contractor are responsible for all temporary and permanent bracing.

6. The Placement Plan assumes the building is dimensionally correct, structurally sound, and in a suitable condition to support each Component during installation and thereafter, including but not limited to installation of all bearing points. Proper design and construction of all structural components, including foundations, headers, beams, walls and columns are the responsibility of the Owner, Building Designer and Contractor.

7. Do not cut, drill, or modify any Component without first consulting the Component Manufacturer or Building Designer. Damaged Components shall not be installed unless directed by the Building Designer or approved by the Component Manufacturer.

8. Components must be handled and installed following all applicable safety standards and best practices, including but not limited to BCSI, OSHA, TPI and local codes. Failure to properly handle, brace or otherwise install Component can result in serious injury or death.

* FRAMER MUST REFER TO PLANS WHILE SETTING COMPONENTS.	** DAMAGED COMPONENTS SHOULD NOT BE INSTALLED UNLESS TOLD TO BY THE CO	OMPONENT PLANT.	Ge
Truss Di End			neral N
YMBOL NEAF			lotes:
			** CUTTIN
			g or drill
			ING OF CO
			MPONENTS
			SHOULD N
			OT BE DON
			IE WITHOUT
			- CONTACTI
WINGS.			NG COMPO
*	48' 0" 45' 4"		NENT SUPF
	13' 6"		PLIER



FIRST. CUSTOMER TAKES FULL RESPONSIBILITY FOR COMPONENTS IF CUT BEFORE AUTHORIZATION.

00/00/00

Name

00/00/00

Name

00/00/00

Name

Revisions





**Trenco** 818 Soundside Rd Edenton, NC 27932

Re: 23070133 DRB GROUP - 84 FaNC

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Carter Components (Sanford, NC)).

Pages or sheets covered by this seal: I59853565 thru I59853587

My license renewal date for the state of North Carolina is December 31, 2023.

North Carolina COA: C-0844



August 1,2023

## Gilbert, Eric

**IMPORTANT NOTE:** The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 84 FaNC	
23070133	A01	Roof Special	12	1	Job Reference (optional)	59853565

TCDL

BCLL

BCDL

WEBS

1)

2)

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon Jul 31 14:00:11 ID:24AZDW7zTEHAC6YN1cvXXYyEOkd-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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August 1,2023



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall bilding design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 84 FaNC	
23070133	A02	Roof Special	7	1	Job Reference (optional)	159853566

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon Jul 31 14:00:15 ID:24AZDW7zTEHAC6YN1cvXXYyEOkd-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



TOP CHORD 1-2=0/18, 2-3=-2477/30, 3-5=-2361/105, 5-6=-135/170, 6-7=-167/57, 7-8=-1726/76, 8-10=-1874/33 BOT CHORD 2-14=-117/2160, 12-14=0/1412, 11-12=0/1412, 10-11=0/1371 WEBS 14-15=-78/1162, 5-15=-66/1222, 7-16=0/538, 11-16=0/509, 8-11=-165/259, 15-17=-84/0, 16-17=-84/0, 12-17=0/39, 5-7=-1389/151, 3-14=-600/330 NOTES

Max Horiz 2=250 (LC 11)

Max Uplift 2=-63 (LC 14)

2=0-3-8, 10= Mechanical

Max Grav 2=1518 (LC 5), 10=1486 (LC 25)

(Ib) - Maximum Compression/Maximum

Loading

TCLL (roof)

Snow (Pf)

LUMBER

TCDL

BCLL

BCDL

WEBS

WEBS

FORCES

REACTIONS

(size)

Tension

SLIDER

BRACING

1) Unbalanced roof live loads have been considered for this design.

- Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10 Unbalanced snow loads have been considered for this
- 4) desian. 5)
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads
- 6) 200.0lb AC unit load placed on the bottom chord, 17-6-8 from left end, supported at two points, 5-0-0 apart.
- This truss has been designed for a 10.0 psf bottom 7) chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf 8) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf. 9) Refer to girder(s) for truss to truss connections.
- 10) One H2.5A Simpson Strong-Tie connectors
- recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 84 FaNC	
23070133	A04	Roof Special Supported Gable	2	1	Job Reference (optional)	159853567

### Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon Jul 31 14:00:16 ID:wSfeYGx?zDIrK7PgnUXd7GyEOeQ.RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



31-9-8

#### \_\_\_\_\_\_\_Scale = 1:67.6 \_\_\_\_\_\_\_\_ Plate Offsets (X, Y): [2:0-2-8,0-0-5], [13:0-2-10,0-2-4], [28:0-2-2,0-1-8]

Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL		(psf) 20.0 20.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2	018/TPI2014	<b>CSI</b> TC BC WB Matrix-MSH	0.12 0.09 0.18	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 20	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 229 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING TOP CHORD WEBS REACTIONS	2x4 SP N 2x4 SP N 2x4 SP N 2x	5.2 5.3 FP No.3 1 wood shea burlins, exc ng directly midpt 2=31-9-8, 22=31-9-8 25=31-9-8 25=31-9-8 32=31-9-8 32=31-9-8 32=31-9-8 32=31-9-8 32=31-9-8 32=31-9-8 32=31-9-8 32=31-9-8 32=31-9-8 35=-31-9-8 (L) 22=-52 (L) 24=-72 (L) 24=-72 (L) 24=-72 (L) 25=-52 (L) 23=-52 (L) 23=-52 (L) 23=-73 (L) 25=266 (L) 23=173 (L) 25=266 (L) 30=175 (L) 30=175 (L) 32=160 (L) 36=137 (L)	-7-7 athing directly applie sept end verticals. applied or 10-0-0 oc 13-26, 12-27, 11-29, 14-25 20-31-9-8, 21=31-9 , 23=31-9-8, 24=31- , 30=31-9-8, 31=31- , 30=31-9-8, 37=31- 213), 37=271 (LC 12 15), 21=-124 (LC 14 C 15), 23=-69 (LC 12 C 14), 30=-43 (LC 14 C 14), 30=-43 (LC 14 C 14), 32=-44 (LC 14 C 15), 22=161 (LC 27) C 25), 22=28 (LC 27) C 21), 33=160 (LC 127) C 21), 35=164 (LC 147) C 21), 35=164 (LC 147) C 21), 35=164 (LC 147) C 21), 37=205 (LC 27) C 21), 37	d or 	FORCES TOP CHORD BOT CHORD WEBS NOTES 1) Unbalanced this design. 2) Wind: ASCE Vasd=103m Cat. II; Exp zone and C- (2N) 2-3-10 Streiror(2N) 31-7-12 zon vertical left a forces & MW DOL=1.60 p	(lb) - Maximum Cc Tension 1-2=0/23, 2-3=-10 4-5=-226/131, 5-6 7-8=-186/214, 8-1 10-11=-159/304, 1 12-13=-133/388, 1 14-15=-117/358, 1 16-17=-71/201, 17 18-19=-80/41, 19- 2-36=-42/90, 35-3 33-34=-42/90, 32- 30-31=-42/90, 29- 26-27=-42/90, 29- 26-27=-42/90, 29- 26-27=-42/90, 29- 26-27=-42/90, 29- 26-27=-42/90, 29- 26-27=-42/90, 29- 23-24=-42/90, 29- 20-21=-42/90, 25- 23-24=-42/90, 25- 23-24=-42/90, 25- 35-34=-119/76, 4-3 14-25=-226/87, 15 16-23=-132/102, 1 18-21=-154/198 roof live loads hav 57-16; Vult=130mg ph; TCDL=6.0psf; B; Enclosed; MWF C Corner(3E)-0-1 to 16-4-12, Corner 22-9-1 to 28-5-10 e; cantilever left ar and right exposed; VFRS for reactions late grip DOL=1.60	9/46, 3-4         =-212/15         09-172/2         1-12=-1         3-14=-1         5-16=-9         '-18=-56         20=-66/2         20=-66/2         20=-66/2         20=-66/2         20=-66/2         20=-42/9         20=-42/9         20=-42/9         20=-42/9         20=-42/9         20=-42/9         20=-42/9         20=-42/9         20=-42/9         20=-42/9         20=-42/9         20=-42/9         20=-42/9         20=-42/9         20=-42/9         20=-42/9         20=-42/9         21=4216         2-21-20/7         5=-123/8         5=-123/8         5=-123/8         5=-123/8         6         6         9         9         9         9         9         9         9         9         9         9         9         9         9	on/Maximum	78, 90, 90, 90, 90, 90, 102,	<ol> <li>Tru only see or c</li> <li>TCL Plat</li> <li>DOI CS=</li> <li>Unb desis</li> <li>Inbio</li> <li>This</li> <li>Inbio</li> <li>This</li> <li>Inbio</li> <li>This</li> <li>Choi</li> <li>Choi<td>ss desig . For st Standar onsult q .L: ASCI e DOL= _=1.15); 1.00; Cl alancec ign. truss h l of 12.0 rhangs r ble requi ble studs truss h rd live lc is truss h botto 5-00 tall rd and a</td><td>gned fc uds ex- vd Indu- ualifier E 7-16 I 1.15); Is=1.0 I snow as beee psf or non-coo e 2s4 e 2s4 e 2s4 m cho by 2-0 iny oth</td><td>or wind loads in t (posed to wind (i istry Gable End d building desigr ; Pr=20.0 psf (roc Pf=20.0 psf (Lur ); Rough Cat B; loads have bee en designed for c 1.00 times flat r ncurrent with oth MT20 unless oth ntinuous bottom ad at 2-0-0 oc. en designed for at 2-0-0 oc. en designed for at nconcurrent with oth then designed for rd in all areas w 0-00 wide will fit er members. SEA 0363 SEA 0363</td><td>he plane of the truss hormal to the face), Details as applicable, er as per ANSI/TPI 1. of LL: Lum DOL=1.15 n DOL=1.15 Plate Fully Exp.; Ce=0.9; n considered for this greater of min roof live oof load of 20.0 psf on her live loads. erwise indicated. chord bearing. a 10.0 psf bottom any other live loads. a live load of 20.0psf here a rectangle between the bottom</td></li></ol>	ss desig . For st Standar onsult q .L: ASCI e DOL= _=1.15); 1.00; Cl alancec ign. truss h l of 12.0 rhangs r ble requi ble studs truss h rd live lc is truss h botto 5-00 tall rd and a	gned fc uds ex- vd Indu- ualifier E 7-16 I 1.15); Is=1.0 I snow as beee psf or non-coo e 2s4 e 2s4 e 2s4 m cho by 2-0 iny oth	or wind loads in t (posed to wind (i istry Gable End d building desigr ; Pr=20.0 psf (roc Pf=20.0 psf (Lur ); Rough Cat B; loads have bee en designed for c 1.00 times flat r ncurrent with oth MT20 unless oth ntinuous bottom ad at 2-0-0 oc. en designed for at 2-0-0 oc. en designed for at nconcurrent with oth then designed for rd in all areas w 0-00 wide will fit er members. SEA 0363 SEA 0363	he plane of the truss hormal to the face), Details as applicable, er as per ANSI/TPI 1. of LL: Lum DOL=1.15 n DOL=1.15 Plate Fully Exp.; Ce=0.9; n considered for this greater of min roof live oof load of 20.0 psf on her live loads. erwise indicated. chord bearing. a 10.0 psf bottom any other live loads. a live load of 20.0psf here a rectangle between the bottom



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Continued on page 2 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **AMSI/TP1 Quility Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 84 FaNC	
23070133	A04	Roof Special Supported Gable	2	1	Job Reference (optional)	159853567

12) One H2.5A Simpson Strong-Tie connectors

- recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 26, 27, 29, 30, 31, 32, 33, 34, 35, 36, 25, 24, 23, 22, and 21. This connection is for uplift only and does not consider lateral forces.
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon Jul 31 14:00:16 ID:wSfeYGx?zDIrK7PgnUXd7GyEOeQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 2

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Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 84 FaNC	
23070133	B01	Common Girder	1	2	Job Reference (optional)	159853568

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon Jul 31 14:00:17 ID:pVQbySBA1gxsLMVjWOPYUhyEOe5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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#### Scale = 1:57.6 Plate Offsets (X, Y): [1:Edge,0-0-7], [5:Edge,0-0-7]

Loading         (psf)           TCLL (roof)         20.0           Snow (Pf)         20.0           TCDL         10.0           BCLL         0.0           BCDL         10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	1-11-4 1.15 1.15 NO IRC2018/TPI2014	CSI TC BC WB Matrix-MSH	0.74 0.54 0.91	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.12 -0.21 0.04	(loc) 7-8 7-8 5	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 247 lb	<b>GRIP</b> 244/190 FT = 20%	
LUMBER TOP CHORD 2x4 SP No.2 BOT CHORD 2x6 SP 2400F 2.0 WEBS 2x4 SP No.3 *Exc BRACING TOP CHORD Structural wood s 3-4-13 oc purlins. BOT CHORD Rigid ceiling dired bracing. REACTIONS (size) 1=0-3- Max Horiz 1=-183 Max Uplift 1=-327 Max Grav 1=6895 FORCES (lb) - Maximum C Tension TOP CHORD 1-2=-9075/417, 2 3-4=-6135/308, 4 BOT CHORD 1-8=-357/7061, 6 WEBS 3-7=-281/7498, 4 2-7=-3102/334, 2 NOTES 1) 2-ply truss to be connected to (0.131"x3") nails as follows: Top chords connected as follows: Top chords connected as follows: 2) All loads are considered equa except if noted as front (F) or CASE(S) section. Ply to ply cc provided to distribute only loa unless otherwise indicated. 3) Unbalanced roof live loads has this design.	E ept* 7-3:2x4 SP No.2 heathing directly applied tly applied or 10-0-0 oc 8, 5=0-3-8 (LC 10) (LC 12) (LC 25), 5=7308 (LC 2 pmpression/Maximum 3=-6133/311, 5=-9053/0 8=-357/7061, 5-6=0/69 7=-3090/0, 4-6=0/3608 8=-177/3639 gether with 10d ws: 2x4 - 1 row at 0-9-0 ollows: 2x6 - 2 rows 4 - 1 row at 0-9-0 oc. Ily applied to all plies, pack (B) face in the LO/ innections have been is noted as (F) or (B), we been considered for	<ul> <li>4) Wind: AS Vasd=10: Cat. II; Ex zone; car and right DOL=1.6:</li> <li>5) TCLL: AS Plate DO DOL=1.1: Cs=1.00;</li> <li>6) Unbalance design.</li> <li>7) This truss chord live</li> <li>8) * This truss on the bo 3-06-00 tr chord and does not</li> <li>9) One H2.5: recomme UPLIFT a does not</li> <li>10) This truss Internation R802.10.</li> <li>11) Use Simp 11-10dx1 spaced a end to 17 bottom cf AD</li> <li>12) Fill all nai</li> <li>LOAD CASE 1) Dead + Increase Uniform Vert: Concent</li> </ul>	CE 7-16; Vult=130mpl mph; TCDL=6.0psf; E p B; Enclosed; MWFF exposed; Lumber DOL CE 7-16; Pr=20.0 psf (=1.15); Pf=20.0 psf (I ;); Is=1.0; Rough Cat Ct=1.10 ed snow loads have b has been designed for load nonconcurrent w s has been designed tom chord in all areas II by 2-00-00 wide wil any other members. A Simpson Strong-Tie nded to connect truss is designed in accord hal Residential Code s and referenced stan- son Strong-Tie HTU21 /12 Truss, Single Ply 2-0-12 oc max. startii 11-12 to connect trus ord. holes where hanger i S) Standard Snow (balanced): Lurr =1.15 Loads (Ib/ft) -3=-58, 3-5=-58, 9-12 rated Loads (Ib)	h (3-sec 3CDL=6 3CDL=6 3CS (env cposed L=1.60   (roof LL Lum DC B; Fully een cor or a 10.1 vith any for a liv swhere I fit betv connector bear on is for lance w sections dard AN 6 (20-10 Girder) ng at 1- s(es) to is in cor aber Inc	cond gust) .0psf; h=25ft; elope) exteric; end vertical olate grip .: Lum DOL=' L=1.15 Plate Exp.; Ce=0.5 insidered for th 0 psf bottom other live loa e load of 20.0 a rectangle ween the botto ctors ing walls due uplift only ar ith the 2018 i R502.11.1 a ISJ/TPI 1. 0d Girder, or equivalent 11-0 from the back face of itact with lumi	or left 1.15 ); ds. )psf om to psf om to d left left ber. Plate		Vert: 7= 19=-125 22=-125	-1252 (2 (B), (2 (B),	(B), 17=-1252 (B) 20=-1252 (B), 21 23=-1362 (B), 24 H CA SEA 0363 SEA 0363	A 18=-1252 (B), =-1252 (B), =-1362 (B) 1362 (B) 	M. A. M.

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August 1,2023

Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 84 FaNC	
23070133	B02	Common	5	1	Job Reference (optional)	159853569

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon Jul 31 14:00:17 ID:o4fmq6AP0YAwS4shMMctTDyAbjt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:60.6	Scale	=	1:60.6
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#### Plate Offsets (X, Y): [2:0-6-0,0-0-10], [6:0-6-0,0-0-10], [8:0-4-0,0-3-0]

	, .													
Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 20.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018	B/TPI2014	CSI TC BC WB Matrix-MSH	0.47 0.83 0.27	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.14 -0.29 0.02	(loc) 8-11 8-11 6	l/defl >999 >791 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 100 lb	<b>GRIP</b> 244/190 FT = 20%	
LUMBER TOP CHORD 25 BOT CHORD 25 WEBS 25 BRACING TOP CHORD S BOT CHORD S BOT CHORD R REACTIONS (siz Ma Ma FORCES (lit TOP CHORD 1- BOT CHORD 1- BOT CHORD 2- WEBS 4- NOTES 1) Unbalanced rd this design. 2) Wind: ASCE 7 Vasd=103mpf Cat. II; Exp B; zone and C-C 2-1-8 to 6-7-12 (1) 12-7-12 to zone; cantilev and right expc MWFRS for re grip DOL=1.60 3) TCLL: ASCE 7 Plate DOL=1. DOL=1.15); Is Cs=1.00; Ct=1	x4 SP No.2 x4 SP No.2 x4 SP No.3 tructural wood she -3-15 oc purlins. ligid ceiling directly racing. ze) 2=0-3-8, 6 x Horiz 2=-206 (L x Uplift 2=-74 (LC x Grav 2=872 (LC b) - Maximum Com ension -2=0/34, 2-3=-1015 -5=-801/149, 5-6=- -6=-144/748 -8=-68/577, 5-8=-3 oof live loads have 7-16; Vult=130mph h; TCDL=6.0psf; B; Enclosed; MWFR Exterior(2E) -0-10 2, Exterior(2E) -0-1	athing directly applie applied or 10-0-0 oc 5=0-3-8 C 12) : 14), 6=-74 (LC 15) C 21), 6=872 (LC 22) pression/Maximum 5/136, 3-4=-801/149, 1015/136, 6-7=0/34 40/200, 3-8=-340/199 been considered for (3-second gust) CDL=6.0psf, h=25ft; S (envelope) exterior -8 to 2-1-8, Interior (- -12 to 12-7-12, Interii E) 17-2-0 to 20-2-0 posed ; end vertical lu- pers and forces & mber DOL=1.60 plat roof LL: Lum DOL=1 um DOL=1.15 Plate b; Fully Exp.; C=0.9;	4) 5) d or 6) 7) 8) 9) 9 <b>LC</b> 9 <b>LC</b> 1) or eft te 15;	Unbalanced design. This truss ha load of 12.0 overhangs n This truss ha chord live loa * This truss h on the bottor 3-06-00 tall th chord and ar One H2.5A S recommende UPLIFT at jtt and does no This truss is International R802.10.2 a DAD CASE(S)	snow loads have b as been designed for psf or 1.00 times fit on-concurrent with as been designed for ad nonconcurrent v has been designed in chord in all areas by 2-00-00 wide will yo other members. Simpson Strong-Tie ad to connect truss (s) 2 and 6. This co t consider lateral for designed in accoror. Residential Codes and referenced stan Standard	been col or great at roof I other Ii or a 10. vith any for a liv s where Il fit betv e conne to bear onces. dance w sections dard AN	nsidered for t er of min roo bad of 20.0 p ve loads. 0 psf bottom other live loa re load of 20. a rectangle veen the bott ctors ing walls due n is for uplift ith the 2018 is R502.11.1 a NSI/TPI 1.	his f live ssf on ads. 0psf tom eto only and				SEA 0363		Manuality

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and PCB Building Component Science Institute (average component description description (unwe theoremonent) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



minin August 1,2023

Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 84 FaNC	
23070133	B03	Common Structural Gable	1	1	Job Reference (optional)	159853570

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon Jul 31 14:00:18 ID:NmW2mvLBjrww7DwNBIsA1AyAbjf-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



		9-7-12	12-9-4	19-3-8	
$C_{rel} = 4.04.0$		9-7-12	3-1-8	6-6-4	
Plate Offsets (X, Y): [2:Edge,0-0-6], [17:0-4-0,0-3-0]	_				

Loading TCLL (roof)		(psf) 20.0	Spacing Plate Grip DOL	1-11-4 1.15		CSI TC	0.41	<b>DEFL</b> Vert(LL)	in -0.17	(loc) 17-23	l/defl >902	L/d 240	PLATES MT20	<b>GRIP</b> 244/1	90
Snow (Pf)		20.0	Lumber DOL	1.15		BC	0.67	Vert(CT)	-0.35	17-23	>437	180			
TCDL		10.0	Rep Stress Incr	YES		WB	0.41	Horz(CT)	0.01	2	n/a	n/a	-		
BCLL		0.0*	Code	IRC20	18/TPI2014	Matrix-MSH							-		
BCDL		10.0											Weight: 127	b FT = 2	20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS WEDGE	2x4 SP N 2x4 SP N 2x4 SP N 2x4 SP N 2x4 SP N Left: 2x4	o.2 o.2 o.3 o.3 SP No.3		V	VEBS	5-17=-45/328, 17- 3-20=-3/231, 3-18: 17-18=-357/200, 4 7-20=-377/81, 15- 9-14=-215/38, 10- roof live loads bay	19=-1/25 =-308/17 -18=-75 20=-521 13=-102	58, 19-20=-8/2 78, 734, 6-19=-93 7121, 7110	259, 8/43,	10) * Th on 1 3-0 cho 11) One recu	his truss the botto 6-00 tall rd and a e H2.5A ommend LIFT at j	has be by cho by 2-0 iny oth Simps led to t(s) 2,	een designed fo ord in all areas v 00-00 wide will er members. on Strong-Tie connect truss to 15, 14, and 13.	or a live lo where a re fit betweer connector o bearing	ad of 20.0psf ectangle n the bottom s walls due to nection is for
TOP CHORD	Structura	Structural wood sheathing directly applied or this design.					uplift only and does not consider lateral force							ces.	
	6-0-0 oc	tructural wood sheatning directly applied or 0-0 oc purlins. id rolling directly applied or 10.0.0 oc Vasta 103mr					CE 7-16; Vult=130mph (3-second gust) 12) N/a								
BOT CHORD	Rigid ceil bracing.	ing directly	applied or 10-0-0 oc		Vasd=103mp Cat. II; Exp E	oh; TCDL=6.0psf; 3; Enclosed; MWF	BCDL=6 RS (env	6.0psf; h=25ft; elope) exteric	; or						
JOINTS	1 Brace a	at Jt(s): 18,			zone and C- 2-1-8 to 6-7-	C Exterior(2E) -0- <sup>-</sup> 12, Exterior(2R) 6-	10-8 to 2 -7-12 to	-1-8, Interior 12-7-12, Inter	(1) rior	13) Thi	s truss is	s desig	ned in accorda	nce with t	:he 2018
REACTIONS	(size) Max Horiz Max Uplift Max Grav	2=0-3-8, 1 14=6-8-0, 24=6-8-0 2=-199 (L 2=-47 (LC 14=-15 (L 16=-116 ( 2=699 (LC 13=137 (L 15=586 (L 24=203 (L	11=6-8-0, 13=6-8-0, 15=6-8-0, 16=0-3-8, C 12) 14), 13=-98 (LC 15) C 14), 15=-79 (LC 15) LC 7) 2 21), 11=203 (LC 28 C 29), 14=255 (LC 1 C 22), 16=-28 (LC 2 C 28)	<ul> <li>(1) 12-7-12 tr zone; cantile and right exp</li> <li>MWFRS for grip DOL=1.</li> <li>Truss design only. For stu- see Standard or consult qu</li> <li>TCLL: ASCE Plate DOL=1</li> </ul>	I2 to 17-2-0, Exterior(2E) 17-2-0 to 20-2-0 tilever left and right exposed ; end vertical left exposed;C-C for members and forces & for reactions shown; Lumber DOL=1.60 plate =1.60 signed for wind loads in the plane of the truss studs exposed to wind (normal to the face), dard Industry Gable End Details as applicable, t qualified building designer as per ANSI/TPI 1. SCE 7-16; Pr=20.0 psf (toof LL: Lum DOL=1.15 L=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate							ARO	02.11.1 and TPI 1.		
FORCES	(lb) - Max Tension	timum Com	pression/Maximum		Cs=1.00; Ct=	=1.10, Rough Cat	. D, Fully	Exp., Ce-0.	y,			53	OFES	Oi	3m
TOP CHORD	1-2=0/33, 4-5=-393, 7-8=-273, 10-11=-2	, 2-3=-751/2 /96, 5-6=-32 /34, 8-9=-2 04/25, 11-1	71, 3-4=-524/60, 84/109, 6-7=-426/86, 33/23, 9-10=-158/18, 2=0/33	3-4=-524/60,       Cs=1.00; Ct=1.10         30-6, 6, 7=-426/86,       5)         109, 6-7=-426/86,       6         23, 9-10=-158/18,       6)         This truss has been designed for greater of to load of 12.0 psf or 1.00 times flat roof load of 12.0 psf or 1.00 times flat ro									SE	AL	
BOT CHORD	2-16=-14 14-15=-2 11-13=-2	4/547, 15-1 2/175, 13-1 2/175	6=-22/175, 4=-22/175,	7 8 9	overhangs n ) All plates are ) Gable studs ) This truss ha chord live loa	on-concurrent with 2x4 MT20 unless spaced at 2-0-0 or is been designed t ad nonconcurrent	n other li s otherwi c. for a 10. with any	ve loads. se indicated. O psf bottom other live loa	ıds.		11.1.	A MANUTATI		SZZ NEER GILB	023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCEL Building Component Schut before the Structure Building former the Advection (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 84 FaNC	
23070133	C01	Common	2	1	Job Reference (optional)	159853571

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon Jul 31 14:00:18 ID:oLBBOwO30mJV\_hfysQPtfoyAbjc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





#### Plate Offsets (X, Y): [2:Edge,0-0-6], [4:Edge,0-0-6]

Scale = 1:46.4

Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 20.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018	8/TPI2014	CSI TC BC WB Matrix-MSH	0.91 0.62 0.12	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.09 -0.14 0.01	(loc) 6-9 6-9 2	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 57 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEDGE BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Left: 2x4 SP No.3 Right: 2x4 SP No.3 Structural wood she: 2-2-0 oc purlins. Rigid ceiling directly bracing. (size) 2=0-3-8, 4 Max Horiz 2=-143 (L Max Uplift 2=-55 (LC Max Grav 2=650 (LC (lb) - Maximum Com Tension 1-2=0/34, 2-3=-653/ 4-5=0/34	athing directly applie applied or 10-0-0 oc 4=0-3-8 C 12) 2 14), 4=-55 (LC 15) C 21), 4=650 (LC 22) pression/Maximum 140, 3-4=-653/140, 95/374	3) 4) 5) ed or 5 6) 7) 8) 8) 9)	TCLL: ASCE Plate DOL=1 DOL=1.15); I Cs=1.00; Ct= Unbalanced design. This truss ha load of 12.0 g overhangs no This truss ha chord live loa * This truss ha on the bottom 3-06-00 tall b chord and ar One H2.5A S recommende UPLIFT at jt( and does not International	5 7-16; Pr=20.0 psf .15); Pf=20.0 psf (I ls=1.0; Rough Cat =1.10 snow loads have b as been designed for psf or 1.00 times flaton-concurrent with us been designed for ad nonconcurrent with seen designed for ad nonconcurrent with as been designed for ad nonconcurrent with so peen designed for a consider lateral for designed in accord Residential Cooles	(roof LL Lum DC B; Fully een cor or great at roof lo other liv or a 10.0 vith any for a liv s where I fit betw connectio rces. lance w sections	L: Lum DOL= DL=1.15 Plate Exp.; Ce=0.9 ensidered for the er of min roof pad of 20.0 ps ve loads. 0 psf bottom other live loa e load of 20.0 a rectangle veen the botto ctors ing walls due n is for uplift of the the 2018	ds. opsf ds. opsf om to only					
WEBS	3-6=0/307			R802.10.2 ar	nd referenced stan	dard AN	NSI/TPI 1.	inu				min	1111
NOTES	ad roof live loads have	been considered for	LO.	AD CASE(S)	Standard							"TH CA	ROUL
this design	1.	been considered for									N.	ONEESS	2. 1."

Wind: ASCE 7-16; Vult=130mph (3-second gust) 2) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 3-5-8, Exterior(2R) 3-5-8 to 9-5-8, Interior (1) 9-5-8 to 10-9-8, Exterior(2E) 10-9-8 to 13-9-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 84 FaNC	
23070133	C02	Common Supported Gable	1	1	Job Reference (optional)	159853572

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon Jul 31 14:00:19 ID:GYIZcGOhn4RMcrE8Q8x6C0yAbjb-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



## Plate Offsets (X, Y): [2:0-3-8,Edge], [8:0-3-8,Edge]

Scale = 1:42.6

Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 20.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	1-11-4 1.15 1.15 YES IRC2018	3/TPI2014	<b>CSI</b> TC BC WB Matrix-MSH	0.08 0.06 0.07	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 8	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 74 lb	<b>GRIP</b> 244/190 FT = 20%		
LUMBER TOP CHORD BOT CHORD OTHERS WEDGE BRACING TOP CHORD BOT CHORD REACTIONS	Image: Second state in the image is a state in the imag				Unbalanced roof live loads have been considered for this design. Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 3-5-8, Corner(3E) 10-9-8 to 13-9-8 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10 Unbalanced snow loads have been considered for this design.						<ul> <li>12) Provide mechanical connection (by others) of truss bearing plate capable of withstanding 17 lb uplift at 2, 70 lb uplift at joint 13, 99 lb uplift at joint 14, 69 lb uplift at joint 11, 98 lb uplift at joint 10 and 17 lb uplif joint 2.</li> <li>13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 a R802.10.2 and referenced standard ANSI/TPI 1.</li> <li>LOAD CASE(S) Standard</li> </ul>				
FORCES	19=162 (L (lb) - Maximum Com Tension 1-2=0/33, 2-3=-105/4 4-5=-108/161, 5-6=-	-C 1) pression/Maximum 90, 3-4=-103/69, 108/161, 6-7=-97/65,	7) 8) 9) 10	overhangs no All plates are Gable require Gable studs s ) This truss ha	on-concurrent with 2x4 MT20 unless es continuous botto spaced at 2-0-0 oc s been designed fo	other liv otherwi om chor c. or a 10.0	ve loads. se indicated. d bearing. ) psf bottom			4	in	OH FES	De a de		
BOT CHORD	7-8=-82/50, 8-9=0/3 2-14=-45/158, 13-14 12-13=-45/158, 11-1 10-11=-45/158, 8-10	3 !=-45/158,  2=-45/158, )=-45/158	11	chord live loa ) * This truss h on the bottom	id nonconcurrent w as been designed n chord in all areas	vith any for a liv where	other live load e load of 20.0 a rectangle	ds. psf				0363	322		
WEBS	5-12=-129/24, 4-13= 3-14=-170/153, 6-11 7-10=-170/153	222/127,  =-222/127,		chord and an	y other members.	i ni delv					in the second	A SNGIN	EEREALIN		
NOTES												A. C	GILD		

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818 Soundside Road Edenton, NC 27932

August 1,2023

Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 84 FaNC	
23070133	D01	Monopitch	10	1	Job Reference (optional)	159853573

11-1-6

0-6-4

3x5=

6-8-1

6-8-1

Carter Components (Sanford), Sanford, NC - 27332,

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon Jul 31 14:00:19 ID:Z0\_dihojcXcRjIsBXhGf5kyEOZQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

X

₩8

7

3x10=

13-5-8 || 0-3-4

Page: 1

#### 6-8-1 13-5-8 -6-8-1 6-9-7 3x5 ≉ 56 4x6 🖌 4 9<sup>12</sup> 13 3x5 🖌 10-7-6 3

13-2-4

6-6-3

Scale = 1:67.2				
Plate Offsets (X	Y)·	[2·Edge 0-0-3]	[4.0-3-0	Edge

Plate Olisets (	(A, F). [2.Euge,0-0-3],	[4.0-3-0,Euge]												
<b>Loading</b> TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 20.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018	8/TPI2014	CSI TC BC WB Matrix-MSH	0.80 0.44 0.22	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.06 -0.10 0.01	(loc) 8-9 8-9 2	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 81 lb	<b>GRIP</b> 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS WEDGE BRACING TOP CHORD BOT CHORD WEBS REACTIONS FORCES TOP CHORD BOT CHORD WEBS NOTES 1) Wind: AS( Vasd=103 Cat. II; Ex zone and 2-1-8 to 11 cantilever right expo for reactio DOL=1.6( 2) TCLL: AS Plate DOL DOL=1.15 Cs=1.00; 3) Unbalance	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 *Excep Left: 2x4 SP No.3 Structural wood she 6-0-0 oc purlins, exi Rigid ceiling directly bracing. 1 Row at midpt (size) 2=0-3-8, 8 Max Horiz 2=372 (LC Max Uplift 2=-24 (LC Max Grav 2=609 (LC (lb) - Maximum Com Tension 1-2=0/32, 2-3=-657/ 5-6=-17/0, 5-8=-299, 2-9=-277/516, 8-9=- 3-9=0/306, 3-8=-558 CE 7-16; Vult=130mph Bmph; TCDL=6.0psf; Bd p; B; Enclosed; MWFR: C-C Exterior(2E) -0-10 0-5-8, Exterior(2E) 10-1 left and right exposed (Sed;C-C for members si ons shown; Lumber DO 0 CE 7-16; Pr=20.0 psf (L =1.15); Is=1.0; Rough Cat E Ct=1.10 ed snow loads have be	t* 5-8:2x4 SP No.2 athing directly applie cept end verticals. applied or 10-0-0 oc 5-8, 3-8 3= Mechanical C 13) C 13) C 13) C 13) C 14), 8=-162 (LC 14) C 21), 8=710 (LC 21) pression/Maximum 118, 3-5=-255/210, /101 127/516, 7-8=0/0 S(envelope) exterior (3-second gust) C DL=6.0psf; h=25ft; S (envelope) exterior 8 to 2-1-8, Interior ( 5-8 to 13-5-8 zone; ; end vertical left and and forces & MWFR3 L=1.60 plate grip roof LL: Lum D OL=1 um D OL=1.15 Plate 8; Fully Exp.; Ce=0.9; een considered for thi	4) 5) 6) d or 7) 8) 9) 10 LC LC 1) 15 5 .15	This truss ha load of 12.0 overhangs n This truss ha chord live loa * This truss h chord live loa * This truss h chord and ar Refer to gird Provide mec bearing plate joint 8. One RT8A M truss to bear connection is forces. ) This truss is International R802.10.2 ar AD CASE(S)	s been designed for posf or 1.00 times file on-concurrent with is been designed for da nonconcurrent w has been designed in chord in all areas by 2-00-00 wide will by other members. er(s) for truss to tru- hanical connection e capable of withsta liTek connectors re- ing walls due to UF s for uplift only and designed in accord Residential Code s and referenced stan- Standard	or great at roof li other li or a 10. vith any for a liv swhere I fit betw ss conn (by oth noding 1 comme PLIFT at does no lance w sections dard AN	er of min roof bad of 20.0 p ve loads. D psf bottom other live loa e load of 20.1 a rectangle veen the bott nections. ers) of truss t 62 lb uplift af ended to comr jt(s) 2. This ot consider la ith the 2018 R502.11.1 <i>e</i> ISI/TPI 1.	f live sf on lds. Opsf om to t nect iteral				SEA 0363	ROLL L 22 LBERTIN	Manunita,
design.												11111	1111	

9

2x4 II

August 1,2023

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Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 84 FaNC	
23070133	D02	Monopitch Supported Gable	1	1	Job Reference (optional)	159853574

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon Jul 31 14:00:20 ID:R3mZ6t3uf\_FSkXzDGc8bSAyEOZ5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



#### Scale = 1:64.8

Loading TCLL (roof) Snow (Pf)	(psf) 20.0 20.0 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr	1-11-4 1.15 1.15 VES	CSI TC BC WB	0.82 0.35 0.18	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.01	(loc) - - 11	l/defl n/a n/a	L/d 999 999 p/a	PLATES MT20	<b>GRIP</b> 244/190	
BCLL BCDL	0.0* 10.0	Code	IRC2018/TPI2014	Matrix-MSH	0.10	1012(01)	0.01		n/a	n/a	Weight: 105 lb	FT = 20%	
	2x4 SD No 2		NOTES	= 7-16: Vult=130m	anh (3-sec	cond quet)		12) Pro	vide me	chanic e cana	al connection (by	others) of truss	s to

LUMBER		
TOP CHORD	2x4 SP N	0.2
BOT CHORD	2x4 SP N	0.2
WEBS	2x4 SP N	0.2
OTHERS	2x4 SP N	0.3
BRACING		
TOP CHORD	Structural 6-0-0 oc p	wood sheathing directly applied or purlins, except end verticals.
BOT CHORD	Rigid ceili bracing.	ing directly applied or 10-0-0 oc
WEBS	1 Row at	midpt 10-12, 9-13
REACTIONS	(size)	2=13-5-8, 11=13-5-8, 12=13-5-8, 13=13-5-8, 14=13-5-8, 15=13-5-8, 16=13-5-8, 17=13-5-8, 18=13-5-8, 19=13-5-8
	Max Horiz	2=360 (LC 11), 19=360 (LC 11)
	Max Uplift	2=-94 (LC 10), 11=-120 (LC 14),
		12=-255 (LC 13), 13=-82 (LC 14), 14=-60 (LC 14), 15=-67 (LC 14).
		16=-65 (LC 14), 17=-58 (LC 14),
		18=-102 (LC 14), 19=-94 (LC 10)
	Max Grav	2=243 (LC 11), 11=157 (LC 13),
		12=225 (LC 10), 13=246 (LC 21),
		14=213 (LC 21), 15=164 (LC 24),
		16=166 (LC 24), 17=167 (LC 28),
		18=162 (LC 28), 19=243 (LC 11)
FORCES	(lb) - Max Tension	imum Compression/Maximum
TOP CHORD	1-2=0/31,	2-3=-348/474, 3-4=-306/422,
	4-5=-270/	/382, 5-6=-235/341, 6-7=-215/299,
	7-9=-205/	268, 9-10=-138/166,
	10-11=-16	60/94, 10-12=-256/180
BOT CHORD	2-18=-21	5/310, 17-18=-123/197,
	16-17=-12	23/197, 15-16=-123/197,
	14-15=-12	23/197, 13-14=-123/197,
	12-13=-12	23/197
WEBS	9-13=-206	6/87, 7-14=-174/143,
	6-15=-12	7/113, 5-16=-126/117,
	4-17=-129	9/119, 3-18=-127/131

Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 13-5-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable requires continuous bottom chord bearing.
- 8) Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 94 lb uplift at joint 2, 120 lb uplift at joint 11, 255 lb uplift at joint 12, 82 lb uplift at joint 13, 60 lb uplift at joint 14, 67 lb uplift at joint 15, 65 lb uplift at joint 16, 58 lb uplift at joint 17, 102 lb uplift at joint 18 and 94 lb uplift at joint 2.
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



818 Soundside Road

Edenton, NC 27932

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Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 84 FaNC	
23070133	E01	Jack-Closed Girder	1	1	Job Reference (optional)	159853575

5-2-12

5-2-12

-0-10-8

0-10-8

Carter Components (Sanford), Sanford, NC - 27332,

#### Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon Jul 31 14:00:21 ID:1o8dtl3YDFI\_aPRMnsoz17zkTwU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

9-5-4

4-2-8

Page: 1

1 49



## Scale = 1:34.9

Plate Offsets (X, Y	): [3:0-5-0,0-1-13]
---------------------	---------------------

				-											
Loading		(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)		20.0	Plate Grip DOL	1.15		TC	0.72	Vert(LL)	0.03	6-9	>999	240	MT20	244/190	
Snow (Pf)		20.0	Lumber DOL	1.15		BC	0.52	Vert(CT)	-0.05	6-9	>999	180			
TCDL		10.0	Rep Stress Incr	NO		WB	0.45	Horz(CT)	0.01	5	n/a	n/a			
BCLL		0.0*	Code	IRC20	18/TPI2014	Matrix-MSH									
BCDL		10.0											Weight: 49 lb	FT = 20%	
LUMBER				(	6) Provide adec	uate drainage to p	revent	water ponding	J.		Vert: 4=	-172 (I	F), 3=-131 (F), 6=	58 (F), 5=-60 (F	=),
TOP CHORD	2x4 SP No	.2		-	<ol><li>This truss ha</li></ol>	s been designed fo	ora 10.	0 psf bottom			10=-21 (	F), 11	=-143 (F), 12=-2	47 (F), 13=-50 (F	-)
BOT CHORD	2x6 SP No	.2			chord live loa	ad nonconcurrent w	ith any	other live loa	ds.						
WEBS	2x4 SP No	.3		8	* This truss has been designed for a live load of 20.0psf										
BRACING					on the bottor	on the bottom chord in all areas where a rectangle									
TOP CHORD	Structural	wood shea	athing directly applie	d or	3-06-00 tall t	y 2-00-00 wide wil	I fit betv	veen the botto	om						
	4-11-11 oc	purlins, e	except		) Bearings are	assumed to be:	loint 2 I	leer Defined							
	2-0-0 oc p	urlins: 3-4			crushing can	acity of 425 nsi		Jsei Deimeu							
BOT CHORD	Rigid ceilir bracing.	ng directly	applied or 10-0-0 oc	;	10) Refer to gird	er(s) for truss to tru	iss conr	nections.							
REACTIONS	(size)	2=0-3-8.5	5= Mechanical		1) Provide mec	hanical connection	(by oth	ers) of truss t	0						
	Max Horiz	2=78 (LC	8)		bearing plate	capable of withsta	inding 3	33 lb uplift at							
	Max Uplift	2=-261 (L	C <sup>8</sup> ), 5=-333 (LC 8)			impoon Strong Tic		otoro							
	Max Grav	2=802 (LC	C 34), 5=967 (LC 33)	recommended to connect trusts to begins walk due to											
FORCES	RCES (Ib) - Maximum Compression/Maximum				UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces										
TOP CHORD	1-2=0/23, 2	2-3=-1147	//365, 3-4=0/0		13) This truss is designed in accordance with the 2018										
BOT CHORD	2-6=-367/1	022, 5-6=	-376/1048		International	Residential Code s	sections	R502.11.1 a	nd						
WEBS	3-6=-122/3	85, 4-5=-3	365/118, 3-5=-1172/4	420	R802.10.2 a	nd referenced stan	dard AN	ISI/TPI 1.							
NOTES					14) Graphical pu	rlin representation	does no	ot depict the s	ize						
1) Unbalanc	ed roof live lo	ads have	been considered for		or the orienta	ation of the purlin a	long the	e top and/or					- minin	1111	
this desig	n.				bottom chord.										
2) Wind: AS	CE 7-16; Vult	=130mph	(3-second gust)		<ol> <li>Use Simpsor</li> </ol>	Strong-Tie HTU2	6 (20-1)	0d Girder,				1	atrio	Con l'un	
Vasd=103	3mph; TCDL=	6.0psf; B0	CDL=6.0psf; h=25ft;		11-10dx1 1/2	I russ, Single Ply	Girder)	or equivalent	at			S	O'EE89	GAN'	-
Cat. II; Ex	<pre>cp B; Enclose</pre>	d; MWFR	S (envelope) exterior	ſ	3-3-8 from th	e left end to conne	ct truss	(es) to front ta	ace			27	121	Mill.	/
zone; can	itilever left an	d right exp	osed ; end vertical le	eft	6) Fill all nail bo	Jiu. Jes where hanger i	e in cor	tact with lum	hor		Z			14.01	-
and right	exposed; por	ch left and	i right exposed; Lum	ber	17) "ΝΔΙΙ ΕΠ" inc	licates 3-10d (0.14	8"v3")	or 3-12d	ber.		E		054	n 1.	-
2) TOLL-1.60		OL=1.60	roof LL : Lum DOL =1	15	(0.148"x3.25	") toe-nails per ND	S auidli	nes.					SEA	L :	Ξ
3) TOLL, AS Plate DOI	L = 1 + 15 Pf=2	0 0 nsf (l i	um DOI =1 15 Plate	.15	18) In the LOAD	CASE(S) section,	loads a	pplied to the f	ace		=	:	0363	22 :	-
DOI = 1.1	5): ls=1 0: Ro	uch Cat B	: Fully Exp : Ce=0.9		of the truss a	re noted as front (I	=) or ba	ck (B).			1			:	-
Cs=1.00:	Ct=1.10	ugii our b	, i uliy Exp., 00 0.0,	, I	OAD CASE(S)	Standard	-				-	-			1
4) Unbalanc	ed snow load	s have be	en considered for thi	is <sup>.</sup>	I) Dead + Sno	w (balanced): Lum	ber Inc	rease=1.15, F	Plate			11	N. ENO	-ER. A :	
, design.					Increase=1	15						1	S, GIN	Fr. AN	50
5) This truss has been designed for greater of min roof live Uniform Loads					ads (Ib/ft)						1	CA C	II BEIN		
load of 12	2.0 psf or 1.00	) times flat	roof load of 20.0 ps	f on	Vert: 1-3	=-60, 3-4=-60, 5-7=	20						1117. 6	in in it.	
overhang	s non-concur	rent with o	other live loads.		Concentrate	ed Loads (lb)							<u></u>	-1 1 2022	
													Augu	st 1,2023	

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Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 84 FaNC	
23070133	E02	Monopitch	6	1	Job Reference (optional)	159853576

#### Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon Jul 31 14:00:21 ID:5V7akKsxgX3cUYU2fj\_Ri1zkTvS-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1







4-9-4

Scale = 1:30.9

## Plate Offsets (X, Y): [2:0-3-1,0-0-5]

Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 20.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2	)14	CSI TC BC WB Matrix-MP	0.39 0.38 0.00	<b>DEFL</b> Vert(LL) Vert(CT) Horz(CT)	in 0.08 0.06 -0.02	(loc) 7-10 7-10 2	l/defl >707 >861 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 21 lb	<b>GRIP</b> 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING TOP CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD NOTES 1) Wind: ASC Vasd=103/ Cat. II; Exp Zone and C exposed ; and right e MWFRS fc grip DOL= 2) TCLL: ASC Plate DOL DOL=1.15 Cs=1.00; (3) Unbalance design. 4) This truss load of 12. overhangs	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Left 2x4 SP No.3 1 Structural wood sheat 4-9-4 oc purlins, exc Rigid ceiling directly bracing. (size) 2=0-3-8, 7 Max Horiz 2=77 (LC Max Grav 2=330 (LC (lb) - Maximum Com Tension 1-2=0/25, 2-4=-168/3 4-7=-193/164 2-7=-162/161, 6-7=0 CE 7-16; Vult=130mph mph; TCDL=6.0psf; BG 0 B; Enclosed; MWFR8 C-C Exterior(22) zone; end vertical left and rig exposed; C-C for memb or reactions shown; Lu 1.60 CE 7-16; Pr=20.0 psf (Li ); Is=1.0; Rough Cat B Ct=1.10 distance left and rig exposed for 0 psf or 1.00 times flat non-concurrent with o	I-6-0 athing directly applied cept end verticals. applied or 10-0-0 oc '= Mechanical 13) 10), 7=-75 (LC 10) 21), 7=268 (LC 21) pression/Maximum 336, 4-5=-8/0, /0 (3-second gust) CDL=6.0psf; h=25ft; S (envelope) exterior cantilever left and right exposed; porch le ers and forces & mber DOL=1.60 plate roof LL: Lum DOL=1. um DOL=1.15 Plate ; Fully Exp.; Ce=0.9; en considered for thi : greater of min roof II : roof load of 20.0 psf ther live loads.	5) This chor 6) * Thi on tr 3-06 chor 7) Refe 8) Prov bear 7. 9) One reco UPL does 10) This Inter R807 LOAD C	truss had live los s truss h e bottor 00 tall b d and ar r to gird de mec H2.5A S nmende FT at jt( not con truss is national 2.10.2 a <b>ASE(S)</b>	s been designed fo ad nonconcurrent w has been designed n chord in all areas by 2-00-00 wide will y other members. er(s) for truss to tru hanical connection o capable of withsta Simpson Strong-Tie d to connect truss s) 2. This connection sider lateral forces designed in accord Residential Code s do referenced stand Standard	or a 10.0 ith any for a liv where fit betw ss conrector to bear on is for ance w sections dard AN	D) psf bottom other live load e load of 20. a rectangle veen the bott ections. ers) of truss 5 lb uplift at tors ng walls due uplift only a th the 2018 R502.11.1 a SI/TPI 1.	ads. Opsf om to joint e to nd and				SEA 0363	RO(1111 22 11.BER 1111 11.BER 1111 11.BER 1111 11.BER 1111	

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Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 84 FaNC	
23070133	E03	Monopitch Supported Gable	1	1	Job Reference (optional)	159853577

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon Jul 31 14:00:22 ID:90XFtS1L88yUos7w1NlypCzkTvD-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:31.1

## Plate Offsets (X, Y): [2:0-2-8,0-0-1]

			-											
Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	1-11-4 1.15 1.15 YES IRC2018	3/TPI2014	CSI TC BC WB Matrix-MP	0.09 0.04 0.06	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 6	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 22 lb	<b>GRIP</b> 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS OTHERS SLIDER BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 Left 2x4 SP No.3 Structural wood she 4-9-4 oc purlins, ex Rigid ceiling directly bracing. (size) 2=4-9-4, 8=4-9-4, Max Horiz 2=74 (LC Max Uplift 2=-32 (LC 7=-33 (LC 9=-32 (LC Max Grav 2=192 (L1 7=163 (L1 9=192 (L1	1-6-0 eathing directly applied coept end verticals. applied or 10-0-0 oc 6=4-9-4, 7=4-9-4, 9=4-9-4 13), 9=74 (LC 13) C 10), 6=-46 (LC 21), C 10), 8=-47 (LC 14), C 10), 6=16 (LC 10), C 21), 8=265 (LC 21) C 21)	2) 3) d or 4) 5) 6) 7) 8) 9)	Truss design only. For stu- see Standard or Consult qu TCLL: ASCE Plate DOL=1 DOL=1.15); Cs=1.00; Ct= Unbalanced design. This truss ha load of 12.0 overhangs n Gable requir Gable studs This truss ha chord live loa * This truss f on the bottor 2-obort and ar	ned for wind loads ids exposed to wind d Industry Gable E valified building des 7-16; Pr=20.0 psf .15); Pf=20.0 psf (Is=1.0; Rough Cat =1.10 snow loads have t is been designed f port or 1.00 times fl on-concurrent with es continuous bott spaced at 2-0-0 or is been designed ad nonconcurrent has been designed in chord in all area: by 2-00-00 wide wi	in the p nd (norm nd Deta signer a: f (roof LL (Lum DC B; Fully been cor for great lat roof lu other li oom chor c. for a 10.1 with any l for a liv s where Il fit betv	lane of the tru al to the face ils as applical s per ANSI/TF J = 1.15 Plate Exp.; Ce=0.9 asidered for the er of min roof bad of 20.0 ps ve loads. d bearing. D psf bottom other live loa e load of 20.0 a rectangle veen the botto	uss ), ble, PI 1. 1.15 ; ; ; ; sf on ds. Dpsf com						
FORCES	(lb) - Maximum Con	pression/Maximum	10	chord and ar Provide mec	y other members. hanical connectior	n (by oth	ers) of truss t	o				mm	1111	
TOP CHORD	1-2=0/24, 2-4=-71/7 5-6=-22/15, 5-7=-14	8, 4-5=-41/49, 9/141		2, 46 lb uplift	e capable of withsta at joint 6, 33 lb up 32 lb uplift at joint	anding 3 blift at joi t 2	nt 7, 47 lb up	oint lift			J.	"ATH CA	ROUT	
BOT CHORD	2-8=-23/42, 7-8=-23	6/42	11	) This truss is	designed in accord	dance w	ith the 2018			1	52	OFFESS	0 Jas	21
NEBS	4-8=-204/216			International	Residential Code	sections	R502.11.1 a	nd		L	a			Z
VOTES I) Wind: ASC Vasd=103 Cat. II; Exp zone and 0 (2N) 2-4-1 exposed ; members a Lumber D0	CE 7-16; Vult=130mpf mph; TCDL=6.0psf; B p B; Enclosed; MWFR C-C Corner(3E) -0-10 0 to 4-9-4 zone; cantil end vertical left and ri and forces & MWFRS OL=1.60 plate grip DC	n (3-second gust) CDL=6.0psf; h=25ft; S (envelope) exterior 8 to 2-4-10, Exterior ever left and right ght exposed;C-C for for reactions shown; DL=1.60	LC	AD CASE(S)	Standard	iuaro An	ISI/ I PI 1.			11111111	A A A A A A A A A A A A A A A A A A A	SEA 0363	L 22 BER	WILLING GAL

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GI 100000 August 1,2023

Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 84 FaNC	
23070133	E04	Half Hip Girder	1	1	Job Reference (optional)	159853578

3-2-12

3-2-12

4 Г

3x5 ≠ 3

-0-10-8

0-10-8

Carter Components (Sanford), Sanford, NC - 27332

Scale = 1:31.7

Loading

TCLL (roof)

Snow (Pf)

LUMBER

TOP CHORD

BOT CHORD

2x4 SP No.2

2x4 SP No.1

2x4 SP No.3

bracing.

Max Horiz

Max Uplift

Max Grav

Tension

4-7=-313/112

TCDL

BCLL

BCDL

WEBS

SLIDER

BRACING

TOP CHORD

BOT CHORD

FORCES

WEBS

NOTES

1)

2)

3)

TOP CHORD

BOT CHORD

this design.

Cs=1.00; Ct=1.10

**REACTIONS** (size)

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon Jul 31 14:00:22 ID:1o8dtl3YDFI aPRMnsoz17zkTwU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

5

15

5-2-12

2-0-0

12

Special

4x5 =

4

Page: 1

1-8-15 φ 0-8-0 7 6 2x4 II 3x5 II Special 3-4-8 5-2-12 3-4-8 1-10-4 Plate Offsets (X, Y): [2:0-2-9,0-0-1] Spacing 2-0-0 CSI DEFL in l/defl L/d PLATES GRIP (psf) (loc) Plate Grip DOL 20.0 1.15 TC 0.46 Vert(LL) -0.11 7-10 >572 240 MT20 244/190 Lumber DOL 20.0 1.15 BC 0.88 Vert(CT) -0.18 7-10 >344 180 10.0 Rep Stress Incr WB 0.06 Horz(CT) NO 0.08 5 n/a n/a 0.0 Code IRC2018/TPI2014 Matrix-MP 10.0 Weight: 21 lb FT = 20% 4) Unbalanced snow loads have been considered for this Vert: 1-4=-60, 4-5=-60, 6-8=-20 desian. Concentrated Loads (lb) This truss has been designed for greater of min roof live 5) Vert: 4=-116 (B), 7=-63 (B) load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on Left 2x4 SP No.3 -- 1-6-0 overhands non-concurrent with other live loads Provide adequate drainage to prevent water ponding. 6) 7) This truss has been designed for a 10.0 psf bottom Structural wood sheathing directly applied or chord live load nonconcurrent with any other live loads. 5-2-12 oc purlins, except \* This truss has been designed for a live load of 20.0psf 8) 2-0-0 oc purlins: 4-5. on the bottom chord in all areas where a rectangle Rigid ceiling directly applied or 10-0-0 oc 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members. 2=0-3-8, 5= Mechanical, 6= Refer to girder(s) for truss to truss connections. 9) Mechanical 10) Provide mechanical connection (by others) of truss to 2=54 (LC 8) bearing plate capable of withstanding 24 lb uplift at joint 2=-125 (LC 8), 5=-24 (LC 8), 6=-93 5 and 93 lb uplift at joint 6. (LC 8) 11) One H2.5A Simpson Strong-Tie connectors 2=395 (LC 34), 5=81 (LC 33), recommended to connect truss to bearing walls due to 6=267 (LC 34) UPLIFT at jt(s) 2. This connection is for uplift only and (lb) - Maximum Compression/Maximum does not consider lateral forces. 12) This truss is designed in accordance with the 2018 1-2=0/23 2-4=-490/168 4-5=0/0 International Residential Code sections R502.11.1 and 2-7=-57/31.6-7=0/0 R802.10.2 and referenced standard ANSI/TPI 1. 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or  $\cap$ bottom chord. Unbalanced roof live loads have been considered for 14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 163 CHILLING WARNES Wind: ASCE 7-16; Vult=130mph (3-second gust) 111111111 Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Ib down and 104 lb up at 3-2-12 on top chord, and 63 lb SEAL down and 66 lb up at 3-2-12 on bottom chord. The Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior 036322 zone; cantilever left and right exposed ; end vertical left design/selection of such connection device(s) is the and right exposed; porch left and right exposed; Lumber responsibility of others. 15) In the LOAD CASE(S) section, loads applied to the face DOL=1.60 plate grip DOL=1.60 of the truss are noted as front (F) or back (B). TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate LOAD CASE(S) Standard DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Dead + Snow (balanced): Lumber Increase=1.15, Plate 1) GI Increase=1 15 mmm Uniform Loads (lb/ft) August 1,2023

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Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 84 FaNC	
23070133	E05	Jack-Open	1	1	Job Reference (optional)	159853579

5-2-12

5-2-12

Carter Components (Sanford), Sanford, NC - 27332,

#### Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon Jul 31 14:00:23 ID:YcaFgQ2vSyd7yFsAD8HkVvzkTwV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





3x6 II

-0-10-8

0-10-8

5-2-12	1

Scale = 1:27.9 Plate Offsets (X, Y): [2:0-2-4.0-0-5]

Plate Olisets (	, τ). [2.0·	-2-4,0-0-5]												
Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL		(psf) 20.0 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	1-11-4 1.15 1.15 YES IRC201	8/TPI2014	CSI TC BC WB Matrix-MP	0.53 0.49 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.13 0.11 -0.03	(loc) 5-8 5-8 2	l/defl >470 >573 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 20 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD SLIDER BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD NOTES 1) Wind: ASC Vasd=103 Cat. II; Ex, zone and exposed ; and right e MWFRS fe grip DOL= 2) TCLL: ASC Plate DOL DOL=1.15 CS=1.00; C 3) Unbalance design.	2x4 SP N 2x4 SP N Left 2x4 S Structura 5-2-12 oc Rigid ceil bracing. (size) Max Horiz Max Uplift Max Grav (lb) - Max Tension 1-2=0/24, 2-5=-237, CE 7-16; Vu mph; TCDL p B; Enclos: C-C Exterio or reactions :1.60 CE 7-16; Pr =1.15); Pf= :5); Is=1.0; R Ct=1.10 ed snow loa	o.2 o.2 o.2 SP No.3 ^ I wood she: purlins. ing directly 2=0-3-8, 4 Mechanic 2=75 (LC 2=-94 (LC 5=-94 (LC 5=90 (LC 5=90 (LC cimum Com , 2-4=-204/: /207 Ilt=130mph =6.0psf; B4 ed; MWFR2 r(2E) zone; left and rig C for memb shown; Lu =20.0 psf (L ough Cat B ds have be	1-6-0 athing directly applied applied or 10-0-0 oc 4= Mechanical, 5= al 10) (10), 4=-63 (LC 10), (21), 4=189 (LC 21), 7) (21), 4=189 (LC 21), 7) (3-second gust) CDL=6.0psf; h=25ft; S (envelope) exterior ; cantilever left and right exposed; porch le bers and forces & mber DOL=1.60 plate toof LL: Lum DOL=1. um DOL=1.15 Plate b; Fully Exp.; Ce=0.9; een considered for thi	4, 5, d or 6, 7, 8, 9, , 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	This truss ha load of 12.0 overhangs n This truss ha chord live loa * This truss la on the bottor 3-06-00 tall t chord and ar Bearings are crushing cap Refer to gird Provide mec bearing plate 4 and 25 lb u 0) One H2.5A S recommende UPLIFT at jtt does not cor I) This truss is International R802.10.2 a <b>DAD CASE(S)</b>	as been designed f psf or 1.00 times fl on-concurrent with is been designed f ad nonconcurrent v has been designed in chord in all areas by 2-00-00 wide wi by 2-00-00 wide wi by 2-00-00 wide wi by 2-00-00 wide wi by 2-00-00 wide with the members. A assumed to be: , acity of 425 psi. er(s) for truss to tr hanical connection e capable of withsta uplift at joint 5. Simpson Strong-Tie de to connect truss (s) 2. This connect sider lateral forces designed in accorr Residential Code ind referenced stan Standard	or great at roof le other li or a 10. with any l for a liv s where Il fit betw Joint 2 L russ conn a (by oth anding 6 e conne to bear ion is for 3. dance w sections idard AN	er of min rool bad of 20.0 p ve loads. 0 psf bottom other live loa e load of 20.1 a rectangle veen the bott Jser Defined nections. ers) of truss i 3 lb uplift at j ctors ing walls due vuplift only at ith the 2018 i R502.11.1 a ISI/TPI 1.	f live sf on dos. Opsf om to joint to nd				SEA 0363	ROUL 22 EER. R. M.
design.												11	CA. G	ILBE

- 2 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.

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818 Soundside Road Edenton, NC 27932

GI A. GIL August 1,2023

Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 84 FaNC	
23070133	E06	Jack-Open	2	1	Job Reference (optional)	159853580

#### Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MITek Industries, Inc. Mon Jul 31 14:00:23 ID:YcaFgQ2vSyd7yFsAD8HkVvzkTwV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

.



5-2-12

Scale	= 1.24	9

Plate Offsets (X, Y): [4:0-3-8,0-1-8]

Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 20.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018/TPI2014	<b>CSI</b> TC BC WB Matrix-MR	0.61 0.52 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.13 0.11 -0.04	(loc) 3-4 3-4 2	l/defl >465 >567 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 16 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD BRACING TOP CHORD BOT CHORD BOT CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD SCAL II; EX ZONE AND CAL II; EX ZONE AND CAL II; EX ZONE AND SCAL II; EX ZONE AND SC	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood she 5-2-12 oc purlins, e Rigid ceiling directly bracing. (size) 2= Mecha 4=0-3-8 Max Horiz 4=56 (LC Max Uplift 2=-68 (LC 4=-61 (LC 20) (lb) - Maximum Com Tension 1-4=-243/146, 1-2=- 3-4=0/0 CE 7-16; Vult=130mph mph; TCDL=6.0psf; Bir p B; Enclosed; MWFR C-C Exterior(2E) zone end vertical left and rig exposed; C-C for memb or reactions shown; Lu 1.60 CE 7-16; Pr=20.0 psf (L =1.15); Is=1.0; Rough Cat E Ct=1.10	thing directly applies xcept end verticals. applied or 10-0-0 oc unical, 3= Mechanical (14) (20), 3=-23 (LC 10), (10) (20), 3=95 (LC 7), 4 upression/Maximum 80/50 (3-second gust) CDL=6.0psf; h=25ft; S (envelope) exterior ; cantilever left and ri ght exposed; porch levers and forces & mber DOL=1.60 plat roof LL: Lum DOL=1. um DOL=1.15 Plate s; Fully Exp.; Ce=0.9;	5) * This trust on the bott 3-06-00 ta chord and 6) Bearings a crushing c 7) Refer to gi 8) Provide me bearing pla 2 and 23 lt 9) One H2.5/ recommen UPLIFT at does not c 10) This truss Internation R802.10.2 LOAD CASE(S	a has been designed om chord in all area l by 2-00-00 wide wi any other members. re assumed to be: , apacity of 425 psi. 'der(s) for truss to tr chanical connection the capable of withst uplift at joint 3. Simpson Strong-Ti ded to connect truss jt(s) 4. This connect onsider lateral forces a designed in accor al Residential Code and referenced star 5) Standard	d for a liv is where ill fit betw. Joint 4 L russ conin n (by oth- tanding 6 ie connec s to beari tion is for s. dance wi sections ndard AN	e load of 20.1 a rectangle veen the bott Jser Defined nections. ers) of truss t 8 lb uplift at j ctors ng walls due uplift only ar uplift only ar ith the 2018 R502.11.1 a ISI/TPI 1.	Dpsf om to oint to nd		<b>W</b> UILLIN.		OR FESS SEA 0363.	PO
<ol> <li>Unbalance design.</li> <li>This truss chord live</li> </ol>	ed snow loads have be has been designed for load nonconcurrent wi	en considered for thi r a 10.0 psf bottom th any other live load	s Is.							Contra Co	A. G.	11.BERTUIN 11.BERTUIN st 1,2023



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Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 84 FaNC	
23070133	E07	Jack-Open	1	1	Job Reference (optional)	159853581

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon Jul 31 14:00:23 ID:YcaFgQ2vSyd7yFsAD8HkVvzkTwV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



1-8-15 1-8-15 Fo 0-8-0 5 3x5 II 3-2-12 Scale = 1:27 Plate Offsets (X, Y): [2:0-2-8,0-0-1] and the second and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate SEAL grip DOL=1.60 036322 TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

3) Unbalanced snow loads have been considered for this design.

2)



GI munin August 1,2023 Wannan and

818 Soundside Road Edenton, NC 27932

		1			1		1						
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15		TC	0.20	Vert(LL)	0.02	5-8	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15		BC	0.17	Vert(CT)	0.01	5-8	>999	180		
TCDL	10.0	Rep Stress Incr	YES		WB	0.00	Horz(CT)	-0.01	2	n/a	n/a		
BCLL	0.0*	Code	IRC201	8/TPI2014	Matrix-MP								
BCDL	10.0					-						Weight: 14 lb	FT = 20%
LUMBER			4)	This truss ha	as been designed	for great	er of min roo	f live					
TOP CHORD	2x4 SP No.2			load of 12.0	psf or 1.00 times	flat roof l	oad of 20.0 p	sf on					
BOT CHORD	2x4 SP No.2			overhangs n	on-concurrent wit	h other li	ve loads.						
SLIDER	Left 2x4 SP No.3 1	-6-0	5)	This truss ha	as been designed	for a 10.	0 psf bottom						
BRACING			0)	chord live lo	ad nonconcurrent	with any	other live loa	ads.					
TOP CHORD	Structural wood shea	athing directly applie	ed or <sup>6)</sup>	" I his truss i	has been designe	d for a liv	e load of 20.	Upst					
	3-2-12 oc purlins.			3-06-00 tall l	11  chord in all area $2  chord$ wide w	as where	veen the both	om					
BOT CHORD	Rigid ceiling directly	applied or 10-0-0 or	C	chord and a	by 2 00 00 maon	3		om					
	bracing.		7)	Bearings are	assumed to be:	. Joint 2 l	User Defined						
REACTIONS	(size) 2=0-3-8, 4	l= Mechanical, 5=	,	crushing cap	acity of 425 psi.	, -							
	Max Horiz 2-53 (LC	ai 10)	8)	Refer to gird	er(s) for truss to	truss con	nections.						
	Max 1 Inlift 2=-73 (LC	10) 10) /30 (I C 10)	9)	Provide med	hanical connection	on (by oth	ers) of truss	to					
	5=-16 (LC	10), 4=-33 (EC 10), 10)	,	bearing plate	e capable of withs	tanding 3	39 lb uplift at	joint					
	Max Grav 2=254 (LC	21), 4=111 (LC 21	)	4 and 16 lb ι	uplift at joint 5.								
	5=55 (LC	7)	// 10	)) One H2.5A \$	Simpson Strong-I	le conne	ctors						
FORCES	(lb) - Maximum Com	pression/Maximum		LIDI IET at it	(a) 2 This connect	s to bear	r uplift only a	: 10 nd					
	Tension	•		does not cor	sider lateral force	25	i upint only a	nu					
TOP CHORD	1-2=0/24, 2-4=-97/20	09	11	) This truss is	designed in acco	rdance w	ith the 2018						
BOT CHORD	2-5=-124/72			International	Residential Code	sections	s R502.11.1 a	and					
NOTES				R802.10.2 a	nd referenced sta	ndard Al	NSI/TPI 1.						1111
1) Wind: AS	CE 7-16; Vult=130mph	(3-second gust)	L	DAD CASE(S)	Standard							White CA	D-11.
Vasd=103	mph; TCDL=6.0psf; B0	CDL=6.0psf; h=25ft;										"ath or	NO !!
Cat. II; Ex	p B; Enclosed; MWFR	S (envelope) exterio	r								<u></u>	OTTESS	1 An
zone and	C-C Exterior(2E) zone;	cantilever left and r	right								in	10	YN:
exposed ;	end vertical left and rig	ght exposed; porch l	eft							1			1.

#### -0-10-8 3-2-12 0-10-8 3-2-12

2

12 4 □

3x5 ≠ 3

Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 84 FaNC	
23070133	E08	Jack-Open	1	1	Job Reference (optional)	159853582

-1-2-14

1-2-14

Carter Components (Sanford), Sanford, NC - 27332,

#### Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon Jul 31 14:00:24 ID:YcaFgQ2vSyd7yFsAD8HkVvzkTwV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Page: 1



3x6 II

4-5-5

4-5-5

4-5-5

Scale = 1:26.5

Plate Offsets (X, Y): [2:0-2-4,0-1-15]

			-											
Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018	J/TPI2014	CSI TC BC WB Matrix-MP	0.34 0.35 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.07 0.05 -0.01	(loc) 5-8 5-8 2	l/defl >797 >966 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 18 lb	<b>GRIP</b> 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD NOTES 1) Wind: AS Vasd=102 Cat. II; Ex zone and 3-0-1 to 4 end vertic exposed;( reactions DOL=1.6( 2) TCLL: AS Plate DOI DOL=1.15 Cs=1.00; 3) Unbalanc	2x4 SP No.2 2x4 SP No.2 Left 2x4 SP No.3 1 Structural wood shea 4-5-5 oc purlins. Rigid ceiling directly bracing. (size) 2=0-4-9, 4 Mechanica Max Horiz 2=52 (LC Max Uplift 2=-110 (LI 5=-20 (LC Max Grav 2=348 (LC 5=77 (LC (lb) - Maximum Com Tension 1-2=0/24, 2-4=-153/3 2-5=-185/132 CE 7-16; Vult=130mph imph; TCDL=6.0psf; BK p B; Enclosed; MWFR3 C-C Corner (3) -1-2-14 4-9 zone; cantilever le al left and right expose 2-C for members and fo shown; Lumber DOL=1 ) CE 7-16; Pr=20.0 psf (LI =1.15); Pf=20.0 psf (LI =1.15); Pf=20.0 psf (LI =1.10); Rough Cat B Ct=1.10	I-6-0 athing directly applie applied or 10-0-0 oc I= Mechanical, 5= al 10) C 10), 4=-48 (LC 10); (10) C 21), 4=150 (LC 21) 7) pression/Maximum 329 (3-second gust) CDL=6.0psf; h=25ft; S (envelope) exterior to 3-0-1, Exterior(2ft ft and right exposed d; porch left and right orces & MWFRS for I.60 plate grip roof LL: Lum DOL=1 um DOL=1.15 Plate ; Fully Exp.; Ce=0.9; en considered for th	4) 5) d or 6) 7) 8) 9) , 9) , 10) (1) LO (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	This truss ha load of 12.0 J overhangs ni This truss ha chord live loa * This truss h on the bottor 3-06-00 tall b chord and ar Bearings are crushing cap Provide mec bearing plate 4 and 20 lb u One H2.5A S uPL:FT at jt( does not con This truss is International R802.10.2 ar	s been designed fi bef or 1.00 times fl on-concurrent with s been designed fi ad nonconcurrent vi as been designed fi n chord in all areas y 2-00-00 wide wil y other members. assumed to be: , acity of 425 psi. er(s) for truss to tr hanical connection capable of withsta plift at joint 5. Simpson Strong-Tie do to connect truss s) 2. This connect isider lateral forces designed in accord Residential Code to referenced stan Standard	or great at roof li other li or a 10.1 vith any for a liv s where I fit betw Joint 2 I uss conn (by oth anding 4 e conne to bear on is for and cons dard AN	er of min roo bad of 20.0 p ve loads. D psf bottom other live loa e load of 20. a rectangle veen the bott Jser Defined nections. ers) of truss 18 lb uplift at ctors ing walls due r uplift only a ith the 2018 a R502.11.1 a ISI/TPI 1.	f live sef on opsf to joint to and				SEA 0363	ROUL 22 EER. A	and an an and the second se

3) Unbalanced snow loads have been considered for this design.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCEL Building Component Scherulter and properting and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCEL Building Campage to the properting and properting



GI

A. GIL August 1,2023

and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 84 FaNC	
23070133	G01	Common	5	1	Job Reference (optional)	159853583

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ID:ivF8LE4ML3FVZqYPQMIbArzkTsa-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





LUMBER		
TOP CHORD	2x4 SP N	o.2
BOT CHORD	2x4 SP N	o.2
WEBS	2x4 SP N	0.3
BRACING		
TOP CHORD	Structura	wood sheathing directly applied or
	4-6-8 oc j	ourlins.
BOT CHORD	Rigid ceil	ing directly applied or 5-2-14 oc
	bracing.	
REACTIONS	(size)	2=0-3-8, 4=0-3-8
REACTIONS	(size) Max Horiz	2=0-3-8, 4=0-3-8 2=36 (LC 14)
REACTIONS	(size) Max Horiz Max Uplift	2=0-3-8, 4=0-3-8 2=36 (LC 14) 2=-195 (LC 10), 4=-195 (LC 11)
REACTIONS	(size) Max Horiz Max Uplift Max Grav	2=0-3-8, 4=0-3-8 2=36 (LC 14) 2=-195 (LC 10), 4=-195 (LC 11) 2=638 (LC 21), 4=638 (LC 22)
REACTIONS	(size) Max Horiz Max Uplift Max Grav (lb) - Max	2=0-3-8, 4=0-3-8 2=36 (LC 14) 2=-195 (LC 10), 4=-195 (LC 11) 2=638 (LC 21), 4=638 (LC 22) imum Compression/Maximum
REACTIONS	(size) Max Horiz Max Uplift Max Grav (lb) - Max Tension	2=0-3-8, 4=0-3-8 2=36 (LC 14) 2=-195 (LC 10), 4=-195 (LC 11) 2=638 (LC 21), 4=638 (LC 22) imum Compression/Maximum
REACTIONS FORCES TOP CHORD	(size) Max Horiz Max Uplift Max Grav (lb) - Max Tension 1-2=0/21,	2=0-3-8, 4=0-3-8 2=36 (LC 14) 2=-195 (LC 10), 4=-195 (LC 11) 2=638 (LC 21), 4=638 (LC 22) imum Compression/Maximum 2-3=-914/1256, 3-4=-914/1256,
REACTIONS FORCES TOP CHORD	(size) Max Horiz Max Uplift Max Grav (lb) - Max Tension 1-2=0/21, 4-5=0/21	2=0-3-8, 4=0-3-8 2=36 (LC 14) 2=-195 (LC 10), 4=-195 (LC 11) 2=638 (LC 21), 4=638 (LC 22) imum Compression/Maximum 2-3=-914/1256, 3-4=-914/1256,

10.0

#### WEBS 3-6=-474/271

#### NOTES

Loading

TCDL

BCLL

BCDL

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 3-0-0, Exterior(2R) 3-0-0 to 9-0-0, Interior (1) 9-0-0 to 9-10-8, Exterior(2E) 9-10-8 to 12-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 3) Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this desian.

- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads. This truss has been designed for a 10.0 psf bottom 6)
- chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. LOAD CASE(S) Standard



Weight: 42 lb

FT = 20%

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Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 84 FaNC	
23070133	G02	Common Supported Gable	1	1	Job Reference (optional)	159853584

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A MiTek Affili 818 Soundside Road

Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 84 FaNC	
23070133	V1	Valley	1	1	Job Reference (optional)	159853585

Scale = 1:42.5 Loading

TCLL (roof)

Snow (Pf)

TCDL

BCLL

BCDL

NOTES

this design.

1)

2)

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon Jul 31 14:00:25 ID:fxEGipx38KAuBA0Cp6bicAyEOiH-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

GRIP

244/190

FT = 20%



LOWIDER						
TOP CHORD	2x4 SP N	o.2				
BOT CHORD	2x4 SP No.2					
OTHERS	2x4 SP No.3					
BRACING						
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins					
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.					
REACTIONS	(size)	1=13-11-0, 5=13-11-0, 6=13-11-0, 7=13-11-0, 8=13-11-0				
	Max Horiz	1=-132 (LC 10)				
	Max Uplift	1=-25 (LC 10), 6=-149 (LC 15), 8=-152 (LC 14)				
	Max Grav	1=116 (LC 24), 5=92 (LC 23), 6=446 (LC 21), 7=292 (LC 21), 8=446 (LC 20)				
FORCES	(lb) - Max Tension	(lb) - Maximum Compression/Maximum Tension				
TOP CHORD	1-2=-144/123, 2-3=-187/117, 3-4=-187/113, 4-5=-114/87					
BOT CHORD	1-8=-52/116, 7-8=-52/93, 6-7=-52/93, 5-6=-52/93					
WEBS	3-7=-210/0, 2-8=-374/193, 4-6=-374/192					

Unbalanced roof live loads have been considered for

Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft;

2-11-13 to 3-11-13, Exterior(2R) 3-11-13 to 9-11-13, Interior (1) 9-11-13 to 10-11-5, Exterior(2E) 10-11-5 to 13-11-5 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber

DOL=1.60 plate grip DOL=1.60

Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-5 to 2-11-13, Interior (1)

Wind: ASCE 7-16; Vult=130mph (3-second gust)

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15
- 4) Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this 5) desian.
- 6) Gable requires continuous bottom chord bearing. 7)
  - Gable studs spaced at 4-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads. \* This truss has been designed for a live load of 20.0psf
- 9) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 1, 152 lb uplift at joint 8 and 149 lb uplift at joint 6.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 84 FaNC	
23070133	V2	Valley	1	1	Job Reference (optional)	159853586

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Page: 1



10-3-13

Loading	(nsf)	Spacing	2-0-0		CSI		DEEL	in	(loc)	l/defl	I /d		GRIP
TCLL (roof)	20.0	Plate Grip DOI	1 15		TC	0.53	Vert(LL)	n/a	(100)	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOI	1 15		BC	0.49	Vert(TL)	n/a	-	n/a	999		2.1.1.00
TCDL	10.0	Rep Stress Incr	YES		WB	0.23	Horiz(TL)	0.01	4	n/a	n/a		
BCLL	0.0*	Code	IRC201	8/TPI2014	Matrix-MSH								
BCDL	10.0		-									Weight: 39 lb	FT = 20%
LUMBER			4)	TCLL: ASCE	7-16; Pr=20.0 p	sf (roof Ll	L: Lum DOL=	1.15					
TOP CHORD	2x4 SP No.2			Plate DOL=1	.15); Pf=20.0 ps	f (Lum DC	DL=1.15 Plate	Э					
BOT CHORD	2x4 SP No.2			DOL=1.15);	s=1.0; Rough Ca	at B; Fully	Exp.; Ce=0.	9;					
OTHERS	2x4 SP No.3		5)	Cs=1.00; Ct=	=1.10			L					
BRACING			5)	Unbalanced	snow loads have	e been coi	nsidered for t	nis					
TOP CHORD	Structural wood she	athing directly applied	or 6)	Gable require	es continuous bo	ottom cho	rd bearing						
	10-0-0 oc purlins.		7)	Gable studs	spaced at 4-0-0	OC.	a souring.						
BUICHORD	bracing	rigid celling directly applied or 6-0-0 oc			s been designed	for a 10.	0 psf bottom						
REACTIONS	(eize) 1-10-3-13 3-10-3-13 $A$ -10-3-13		13	chord live loa	ad nonconcurren	t with any	other live loa	ads.					
	Max Horiz 1=97 (I C	13)	9)	* This truss h	as been designe	ed for a liv	e load of 20.	0psf					
	Max Uplift 1=-67 (LC	21), 3=-67 (LC 20),		on the botton	n chord in all are	as where	a rectangle						
	4=-124 (L	.C 14)		s-06-00 tall t	y 2-00-00 wide v		veen the boll	om					
	Max Grav 1=91 (LC	20), 3=91 (LC 21), 4=	<sup>858</sup> 10	)) Provide med	hanical connection	s. on (by oth	ers) of truss	to					
	(LC 20)			bearing plate	capable of with	standing 6	67 lb uplift at	ioint					
FORCES (lb) - Maximum Compression/Maximum				1, 67 lb uplift	at joint 3 and 12	4 lb uplift	at joint 4.	,					
	Tension		11	) This truss is	designed in acco	ordance w	ith the 2018						
TOP CHORD	1-2=-130/424, 2-3=-	130/424		International	Residential Cod	e sections	s R502.11.1 a	and					
WERS	1-4241/107, 3-4 2 4- 670/205	241/10/		R802.10.2 a	nd referenced sta	andard Al	NSI/TPI 1.						
NOTES	2-4070/295		LO	DAD CASE(S)	Standard								
NUIES	d roof live loade have	haan appaidered for											
this design		Deen considered for										munn	11111
2) Wind AS(	 E 7-16: Vult=130mph	(3-second quist)										N'AH CA	Ro'l

- Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-5 to 3-0-5, Exterior(2R) 3-0-5 to 7-4-2, Exterior(2E) 7-4-2 to 10-4-2 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss 3) only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

With HULLING SEAL 036322 GI munn August 1,2023

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Job	Truss	Truss Type	Qty Ply		DRB GROUP - 84 FaNC		
23070133	V3	Valley	1	1	Job Reference (optional)	159853587	

3-4-5 3-4-5

Carter Components (Sanford), Sanford, NC - 27332,

#### Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Mon Jul 31 14:00:26 ID:PwkSKQ9IklZIUun8rGrrs2yEOe8-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

6-4-8

3-0-3



4x5 = 2 9 10 2-6-2 12 10 ∟ 3 0-0-4 4 2x4 🧳 2x4 u 2x4 💊 6-8-10 2-0-0 CSI DEFL l/defl L/d PLATES GRIP in (loc) 1.15 TC 0.21 Vert(LL) n/a n/a 999 MT20 244/190 BC 1 15 0.23 999 Vert(TL) n/a n/a . YES WB 0.07 Horiz(TL) 0.00 4 n/a n/a IRC2018/TPI2014 Matrix-MP Weight: 25 lb FT = 20% 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10 Unbalanced snow loads have been considered for this 5) desian. ed or Gable requires continuous bottom chord bearing. 6) Gable studs spaced at 4-0-0 oc. 7) This truss has been designed for a 10.0 psf bottom 8) chord live load nonconcurrent with any other live loads. \* This truss has been designed for a live load of 20.0psf 9) on the bottom chord in all areas where a rectangle =-63 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members. ), 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 1, 8 lb uplift at joint 3 and 63 lb uplift at joint 4.

11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



818 Soundside Road

Edenton, NC 27932

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Scale = 1:28.3

Loading

TCLL (roof)

Snow (Pf)

TCDL

BCLL

BCDL

LUMBER						
TOP CHORD	2x4 SP N	o.2				
BOT CHORD	2x4 SP No.2					
OTHERS	2x4 SP No.3					
BRACING						
TOP CHORD	Structural 6-8-10 oc	wood sheathing directly applie purlins.				
BOT CHORD	Rigid ceili bracing.	ng directly applied or 6-0-0 oc				
REACTIONS	(size)	1=6-8-10, 3=6-8-10, 4=6-8-10				
	Max Horiz	1=-62 (LC 10)				
	Max Uplift	1=-8 (LC 21), 3=-8 (LC 20), 4				
	Max Grav	(LC   14) 1-103 (LC 20) 3-103 (LC 21)				
		4=475 (LC 21)				
FORCES	(lb) - Max Tension	imum Compression/Maximum				
TOP CHORD	1-2=-87/1	97, 2-3=-87/197				
BOT CHORD	1-4=-142/	138, 3-4=-142/138				
WEBS	2-4=-331/	177				
NOTES						

(psf)

20.0

20.0

10.0

0.0

10.0

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) 2) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-5 to 3-0-5, Exterior(2R) 3-0-5 to 3-8-14, Exterior(2E) 3-8-14 to 6-8-14 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss 3) only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.



2-9-13



## Symbols

## PLATE LOCATION AND ORIENTATION



## PLATE SIZE

software or upon request.



The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated

### BEARING



Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

### **Industry Standards:**



# **Numbering System**



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

## **Product Code Approvals**

ICC-ES Reports:

ESR-1988, ESR-2362, ESR-2685, ESR-3282 ESR-4722, ESL-1388

## **Design General Notes**

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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# General Safety Notes

## Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- 5. Cut members to bear tightly against each other.
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- 7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- 8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- 10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- 11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- 12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- 13. Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.