Job	Truss	Truss Type	Qty	Ply		
19110027-A	A01	Common Supported Gable	2	1	Job Reference (optional)	E13783374

Run: 8.32 E Oct 29 2019 Print: 8.320 E Oct 29 2019 MiTek Industries, Inc. Wed Nov 20 08:32:47 ID:9tJKChWzR8GLpB8wzr5OT9yHM9Z-Ejhz2?UBHw4ikmYa\_glJumOnQ??7rhGkTRWZ8RyHLLn

Page: 1

-0-11-0 0-11-0 28-11-p 13-11-8 27-11-0 13-11-8 13-11-8 1-0-0 4x5= 10 氭 12 6 Г 9 11 8<sup>39</sup> 4012 3x5 🍃 3x5 👟 7 13 14 6 7-4-3 7-9-11 5 15 4 16 3 17 18 0-4-7 19  $\times$  $\times$  $\cdots$ 32 31 30 29 28 27 26 25 24 23 22 21 20 3x5 = 5x6= 3x5= 27-11-0

Scale = 1:53.5

## Plate Offsets (X, Y): [27:0-3-0,0-3-0]

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL	1	(psf) 20.0 3.9/20.0 10.0 0.0*	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2015	5/TPI2014	CSI TC BC WB Matrix-MSH	0.09 0.03 0.11	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 36	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	<b>GRIP</b> 244/190	
		10.0		FO	RCES	I (Ib) - Maximum Corr	pressio	n/Maximum		4) TC	LL: ASC	E 7-10;	Pr=20.0 psf (roc	f live load: Lumbe	er
TOP CHORD BOT CHORD DTHERS	2x4 SP N 2x4 SP N 2x4 SP N SP No.2	o.2 o.2 o.3 *Excep	t* 26-10,27-9,25-11:2	TC 2x4	P CHORD	Tension 1-2=0/31, 2-3=-97/5 4-5=-64/51, 5-6=-57 7-8=-52/12, 8-39=-	7, 3-4= /68, 6-7 68/160	-72/53, 7=-37/73, , 9-39=-59/169	9,	DC sn Pla Ct:	DL=1.15 F ow); Pf=1 ate DOL= =1.10	Plate D 3.9 psi 1.15); (	OL=1.15); Pg=20 f (flat roof snow: Category II; Exp	0.0 psf (ground Lumber DOL=1.1 B; Fully Exp.;	5
BRACING TOP CHORD	Structura 6-0-0 oc p	l wood shea ourlins.	athing directly applied	d or		9-10=-85/216, 10-1 11-40=-59/169, 12-4 12-13=-52/121, 13-1	1=-85/2 40=-68/ 14=-26/	16, 160, 73, 14-15=-39	/68,	5) Un de 6) Th	balanced sign. is truss h	snow	n designed for g	considered for th eater of min roof	is live
BOT CHORD	Rigid ceil	ing directly	applied or 10-0-0 oc			15-16=-40/26, 16-17 18-19=0/34	7=-49/2	4, 17-18=-82/3	38,	loa ov	id of 12.0 erhangs r	psf or non-co	2.00 times flat ro ncurrent with oth	of load of 13.9 ps er live loads.	f on
REACTIONS	(Ib/size)	2=114/27- 20=132/27 22=135/27 24=134/27 26=118/27 28=134/27 30=135/27 32=135/27 36=120/27	11-0, 18=120/27-11- 7-11-0, 21=136/27-1 7-11-0, 23=136/27-1 7-11-0, 25=141/27-1 7-11-0, 27=141/27-1 7-11-0, 29=136/27-1 7-11-0, 31=135/27-1 7-11-0, 33=114/27-1 7-11-0	0, BC 1-0, 1-0, 1-0, 1-0, 1-0, 1-0, WI 1-0, WI	DT CHORD	2-32=-33/122, 31-32 30-31=-33/122, 27-2 28-29=-33/122, 27-2 26-27=-33/122, 25-2 24-25=-33/122, 23-2 22-23=-33/122, 21-2 20-21=-33/122, 18-2 10-26=-125/2, 9-27= 7-29=-120/82, 5-30= 3-32=-114/77, 11-2	2=-33/1 30=-33/ 28=-33/ 26=-33/ 24=-33/ 22=-33/ 20=-33/ =-153/8 =-120/8 5=-153/	22, 122, 122, 122, 122, 122, 122 0, 8-28=-119/8 2, 4-31=-121/8 80, 12-24=-11	85, 85, 9/85.	7) All 8) Ga 9) Ga 10) * T on 3-0 ch 11) All ca	plates ar ble requi ble studs his truss the botto 06-00 tall ord and a bearings pacity of s	e 2x4 I res cor space has be m choi by 2-0 ny othe are as 565 psi	MT20 unless othen titinuous bottom of d at 2-0-0 oc. wen designed for r d in all areas wh 0-00 wide will fit er members. issumed to be SP i.	erwise indicated. shord bearing. a live load of 20.0 ere a rectangle between the botto No.2 crushing	ipsf om
	Max Horiz Max Uplift Max Grav	2=-81 (LC 2=-13 (LC 21=-19 (Ll 23=-19 (Ll 23=-19 (Ll 28=-20 (Ll 30=-19 (Ll 32=-22 (Ll 2=139 (LC 20=155 (L 22=160 (Ll 24=159 (L 26=151 (L 30=160 (Ll	13), 33–81 (LC 13) 11), 20–19 (LC 16) C 16), 22–19 (LC 16) C 16), 22–19 (LC 16 C 16), 27–19 (LC 15 C 15), 31–19 (LC 15 C 15), 33–13 (LC 11 C 15), 33–13 (LC 11 C 2), 18–147 (LC 2), C 34), 21–161 (LC 2 C 34), 23–160 (LC 3 C 2), 25=193 (LC 23 C 32), 27–193 (LC 2 C 32), 31–160 (LC 3 C 33), 31–160 (LC 2	, ,), NC ), 1) ), 1) ), 2) ), 4), ), 2), 3) ), 3)	DTES Unbalanced this design. Wind: ASCE Vasd=103m Cat. II; Exp I Exterior (2) ; vertical left a forces & MW DOL=1.60 p Truss desig only. For stt	13-23=-120/82, 15-2 16-21=-122/86, 17-2 roof live loads have 7-10; Vult=130mph ph; TCDL=6.0psf; B 3; Enclosed; MWFR zone; cantilever left ind right exposed;C- /FRS for reactions s late grip DOL=1.33 ned for wind loads i uds exposed to wind	22=-12( 20=-113 been c CDL=6 S (enve and rigi C for m shown; n the pl	5/82, considered for ond gust) .0psf; h=25ft; elope) and C-C nt exposed ; en nembers and Lumber ane of the trus al to the face),	C nd			Winnin	UNITH OFF	CAROUN SEAL 36322	
		32=158 (L 36=147 (L	.C 33), 33=139 (LC 2 .C 2)	:),	or consult qu	a maustry Gable En Jalified building desi	gner as	s as applicables per ANSI/TPI	le, I 1.				CA A	GILBE	11

November 20,2019

ENGINEERING BY AMITEK Atfiliate 818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply		
19110027-A	A01	Common Supported Gable	2	1	Job Reference (optional)	E13783374

Run: 8.32 E Oct 29 2019 Print: 8.320 E Oct 29 2019 MiTek Industries, Inc. Wed Nov 20 08:32:47 ID:9tJKChWzR8GLpB8wzr5OT9yHM9Z-Ejhz2?UBHw4ikmYa\_glJumOnQ??7rhGkTRWZ8RyHLLn

Page: 2

- 12) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 27, 28, 29, 30, 31, 32, 25, 24, 23, 22, 21, and 20. This connection is for uplift only and does not consider lateral forces.
- 13) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply		
19110027-A	A02	Common	13	1	Job Reference (optional)	E13783375

Run: 8.32 E Oct 29 2019 Print: 8.320 E Oct 29 2019 MiTek Industries, Inc. Wed Nov 20 08:32:51 ID:ZS\_TqjZrk3fwgftVezf54oyHM9W-X4ccWOZae3zj3rawueNygFBrSqBG\_rlm41jRuXyHLLg



Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 13.9/20.0 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 IRC2015	5/TPI2014	CSI TC BC WB Matrix-MSH	0.67 0.89 0.19	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.32 -0.48 0.06	(loc) 8-10 8-10 6	l/defl >999 >700 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 128 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 *Except Structural wood shea 3-4-7 oc purlins. Rigid ceiling directly bracing.	t* 8-5,10-3:2x4 SP No athing directly applied applied or 9-10-10 oc	3) o.3 or 4) 5)	TCLL: ASCE DOL=1.15 Pl snow); Pf=13 Plate DOL=1 Ct=1.10 Unbalanced a design. This truss ha load of 12.0 p	7-10; Pr=20.0 ps ate DOL=1.15); F 8.9 psf (flat roof si .15); Category II; snow loads have s been designed osf or 2.00 times	of (roof liv Pg=20.0 p now: Lum Exp B; F been con for greate flat roof lo	e load: Lumb isf (ground ber DOL=1.1 ully Exp.; isidered for the er of min roof and of 13.9 ps	er 5 lis live sf on					
REACTIONS	(Ib/size) 2=989/0-3 Max Horiz 2=-81 (LC Max Uplift 2=-6 (LC Max Grav 2=1171 (L (b) Maximum Com	-8, 6=993/0-3-8 13) 15), 6=-7 (LC 16) C 2), 6=1177 (LC 2)	6)	* This truss h on the botton 3-06-00 tall b chord and an	n-concurrent wit has been designe n chord in all area by 2-00-00 wide w hy other members	d for a live as where vill fit betw s, with BC	e loads. e load of 20.0 a rectangle een the botto DL = 10.0psf	)psf om					
TOP CHORD	(ib) - Maximum Com Tension 1-2=0/31, 2-3=-1967 4-17=-1656/508, 4-1 5-18=-1760/488, 5-6	/503, 3-17=-1761/488 8=-1655/508, =-1966/503, 6-7=0/34	7) 8, 8)	All bearings a capacity of 5 One RT7A U truss to beari This connect	are assumed to b 65 psi. SP connectors re ing walls due to L ion is for uplift on	ecommen JPLIFT at Iy and do	2 crusning ded to conne jt(s) 2 and 6. es not consid	ct Ier					
WEBS NOTES	2-10=-359/1714, 9-1 9-19=-109/1112, 8-1 6-8=-342/1713 4-8=-147/696, 5-8=-4 3-10=-435/275	9=-109/1112, 134/275, 4-10=-147/6	9) 95, <b>LC</b>	This truss is International R802.10.2 ar	designed in acco Residential Code nd referenced sta Standard	rdance wi e sections Indard AN	th the 2015 R502.11.1 a SI/TPI 1.	nd				NUCRTH	CARO
<ol> <li>Unbalance</li> </ol>	ed roof live loads have	been considered for									4	11	1403

this design.

Wind: ASCE 7-10; Vult=130mph (3-second gust) 2) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (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=1.33

Warmannen 0 SEAL 036322 GI minimum) November 20,2019

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Job	Truss	Truss Type	Qty	Ply		
19110027-A	A03	Common	2	1	E Job Reference (optional)	E13783376

1)

2)

Run: 8.32 F. Oct 29 2019 Print: 8.320 F. Oct 29 2019 MiTek Industries. Inc. Wed Nov 20 08:32:52 ID:1eYr13ZTVNnnlpSiChAKd?yHM9V-?GA?jkaCPN5ah?96SLvBDSjyfDVyjG5vlhS?Q\_yHLLf

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Job	Truss	Truss Type	Qty	Ply		
19110027-A	A03A	Common	3	1	Job Reference (optional)	E13783377

Run: 8.32 F. Oct 29 2019 Print: 8.320 F. Oct 29 2019 MiTek Industries. Inc. Wed Nov 20 08:32:52

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Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (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=1.33

1)

2)

📣 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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 being real of the set only water the building designer must verify the subject of building designer much 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 **ANS/TP11 Quality Criteria, DSB-89 and BCSI Building Component** fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Qua Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



GI minum November 20,2019

Job	Truss	Truss Type	Qty	Ply	
19110027-A	B01	Common Supported Gable	1	1	E13783378 Job Reference (optional)

## Run: 8.32 E. Oct 29 2019 Print: 8.320 E. Oct 29 2019 MiTek Industries. Inc. Wed Nov 20 09:45:14 ID:1eYr13ZTVNnnIpSiChAKd?yHM9V-cGFnWXf3qLgZrGcuFTR?AVNcsXHE6?aqTpj8P5yHLA5



7-11-0



Scale = 1:26.3			I								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	тс	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999			
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	15	n/a	n/a			
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP									
BCDL	10.0				_						Weight: 33 lb	FT = 20%	
LUMBER TOP CHORD	2x4 SP No.2 2x4 SP No.2		6) This truss load of 12. overhangs	nas been designe 0 psf or 2.00 times non-concurrent w	d for greate s flat roof lo	er of min roof bad of 13.9 p ve loads.	<sup>i</sup> live sf on						

- 7) Gable requires continuous bottom chord bearing.
- 8) Gable studs spaced at 2-0-0 oc.
- \* 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) One RT4 USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 6, 10, and 8. This connection is for uplift only and does not consider lateral forces.
- 11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. LOAD CASE(S) Standard

# FORCES

OTHERS

BRACING

TOP CHORD

BOT CHORD

#### NOTES

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

2x4 SP No.3

bracing.

REACTIONS All bearings 7-11-0.

6-0-0 oc purlins.

Structural wood sheathing directly applied or

Rigid ceiling directly applied or 10-0-0 oc

Max Uplift All uplift 100 (lb) or less at joint(s)

Max Grav All reactions 250 (lb) or less at joint

(s) 2, 6, 8, 9, 10, 11, 15

(lb) - Max. Comp./Max. Ten. - All forces 250

2, 6, 8, 10, 11, 15

(lb) - Max Horiz 2=26 (LC 14), 11=26 (LC 14)

(lb) or less except when shown.

- Wind: ASCE 7-10; Vult=130mph (3-second gust) 2) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (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=1.33
- 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.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.



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Job	Truss	Truss Type	Qty	Ply		
19110027-A	B02	Common Girder	1	2	Job Reference (optional)	E13783379

#### Run: 8.32 E Oct 29 2019 Print: 8.320 E Oct 29 2019 MiTek Industries, Inc. Wed Nov 20 08:32:55 ID:sov6i6eE4DXx0kvrZxHktGyHM9P-xell8QcTw\_LlwIJVamxfitoRv1CfB5qCm?x5UsyHLLd

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Scale = 1:27.6

## Plate Offsets (X, Y): [1:0-5-0,0-1-7], [3:0-5-0,0-1-7]

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL	(psf) 20.0 13.9/20.0 10.0 0.0*	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC201	5/TPI2014	CSI TC BC WB Matrix-MP	0.28 0.85 0.61	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.03 -0.06 0.01	(loc) 4-8 4-8 3	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	<b>GRIP</b> 244/190
BCDL	10.0											Weight: 69 lb	FT = 20%
BCDL LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD	10.0 2x4 SP No.2 2x6 SP No.2 2x4 SP No.3 Structural wood shea 6-0-0 oc purlins. Rigid ceiling directly bracing. (lb/size) 1=1959/0- Max Horiz 1=21 (LC Max Grav 1=2269 (L (lb) - Maximum Com Tension 1-9=-3698/0, 2-9=-38 3-10=-3634/0 1-11=0/3236, 4-11=0 3-12=0/3236	athing directly applie applied or 10-0-0 oc 3-8, 3=1901/0-3-8 33) C 2), 3=2202 (LC 2) pression/Maximum 567/0, 2-10=-3568/0 0/3236, 4-12=0/3236	4) ed or 5) ; () 7) (, 8) (), 8) (), 9)	Wind: ASCE Vasd=103mp Cat. II; Exp E left and right exposed; Luu TCLL: ASCE DOL=1.15 P snow); Pf=13 Plate DOL=1 Ct=1.10 Unbalanced design. * This truss h on the bottor 3-06-00 tall b chord and ar All bearings capacity of 5 This truss is	7-10; Vult=130mp bh; TCDL=6.0psf; B 3; Enclosed; MWFF exposed ; end ver mber DOL=1.60 pl 7-10; Pr=20.0 psf late DOL=1.15); Pg 3.9 psf (flat roof snn .15); Category II; B snow loads have b has been designed n chord in all areas by 2-00-00 wide will y other members. are assumed to be 65 psi.	h (3-sec BCDL=6 RS (env tical left ate grip (roof liv g=20.0 p ow: Lum Exp B; F been cor for a liv s where Il fit betv s SP No.	cond gust) .0psf; h=25ft elope); cantil and right DOL=1.33 e load: Lumb ber DOL=1.1 ully Exp.; asidered for th e load of 20.0 a rectangle veen the botto 2 crushing ith the 2015	; ever 5 nis Opsf om		Vert: 4=	-1108	Weight: 69 lb (B), 11=-1108 (B	FT = 20% ), 12=-1108 (B)
WEBS	2-4=0/2966			International	Residential Code	sections	R502.11.1 a	ind					
NOTES				R802.10.2 a	nd referenced stan	dard AN	ISI/TPI 1.						
<ol> <li>2-ply truss (0.131"x3" Top chorc oc. Bottom ch staggered Web conn</li> <li>All loads a except if r CASE(S) provided t unless ott</li> <li>Unbalanci this design</li> </ol>	s to be connected toget ") nails as follows: ds connected as follows nords connected as follows at 0-8-0 oc. nected as follows: 2x4 - are considered equally i noted as front (F) or bac section. Ply to ply conny codistribute only loads i nerwise indicated. ed roof live loads have n.	her with 10d :: 2x4 - 1 row at 0-9- ows: 2x6 - 2 rows 1 row at 0-9-0 oc. applied to all plies, ck (B) face in the LO lections have been noted as (F) or (B), been considered for	10 0 IAD LC 1)	<ul> <li>Use USP TH 12-10d x 1-1 2-0-0 oc may 5-10-4 to cor chord.</li> <li>WARNING: <sup>-</sup> but fail due tr face at 1-10- 3-10-4 from 1 from the left</li> <li>DAD CASE(S) Dead + Snc Increase=1 Uniform Log Vert: 1-2: Concentrate</li> </ul>	ID26 (With 18-16d /2 nails into Truss) c. starting at 1-10-4 nect truss(es) to b The following hang b geometric consid 4 from the left end the left end, THD26 end. Standard bw (balanced): Lun .15 ads (lb/ft) =-48, 2-3=-48, 1-3: ed Loads (lb)	nails int or equi 4 from th back fac- ers are ferations , THD26 6 on bac nber Inc =-20	o Girder & valent spaced e left end to e of bottom manually app :: THD26 on I i on back fact ck face at 5-1 rease=1.15, I	d at blied back e at 0-4 Plate			Comment.	UNIT HIND A	CAROUND SEAL 36322 GINEER.



Job	Truss	Truss Type	Qty	Ply		
19110027-A	C01	Common Supported Gable	1	1	Job Reference (optional)	E13783380

Run: 8.32 E Oct 29 2019 Print: 8.320 E Oct 29 2019 MiTek Industries, Inc. Wed Nov 20 08:32:55 ID:Vq6DFPa6Ggvewz1umOhZADyHM9U-Prs7Mmd5hIT9YSth7USuq5LfsRIYwh8M\_fhf1IyHLLc

16-3-8

12

9

٣

11

818 Soundside Road Edenton, NC 27932



10

16

3x5 =

8-1-12 8-1-12 0-11-0 4x5 = 6 12 6 Г 5 7 P 4 8 P 3 P 2 0 ľ ٣

15

14

16-3-8

5x6 =

13

8-1-12

16

17

3x5 =

0-5-5

-0-11-0

Scale = 1:36.7

Plate Offsets (X, Y): [14:0-3-0,0-3-0]

4-6-3

4-10-5

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	13.9	(psf) 20.0 9/20.0 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 IRC201	5/TPI2014	CSI TC BC WB Matrix-MSH	0.07 0.04 0.03	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 10	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 77 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural w	2 2 3 vood shea	thing directly applied	N( 1) 2) d or	DTES Unbalanced i this design. Wind: ASCE Vasd=103mp Cat. II; Exp B Exterior (2) z	roof live loads have 7-10; Vult=130mph h; TCDL=6.0psf; B ; Enclosed; MWFR pne: cantilever left	been o (3-sec CDL=6 S (enve	considered for ond gust) .0psf; h=25ft; elope) and C-i	C 2nd	13) This Inter R80 LOAD C	truss is national 2.10.2 a <b>ASE(S)</b>	desig Resic nd ref Star	ned in accordanc dential Code secti erenced standarc ndard	e with the 2015 ons R502.11.1 and ANSI/TPI 1.
BOT CHORD	Rigid ceiling bracing.	directly	applied or 10-0-0 oc		vertical left ai forces & MW	nd right exposed;C- FRS for reactions s	C for n	nembers and Lumber						
REACTIONS	bracing. (lb/size) 2=122/16-3-8, 10=66/16-3-8, 11=159/16-3-8, 12=128/16-3-8, 13=142/16-3-8, 14=112/16-3-8, 15=141/16-3-8, 16=132/16-3-8, 17=144/16-3-8, 18=66/16-3-8, 21=122/16-3-8, Max Horiz 2=50 (LC 12), 21=50 (LC 12) Max Uplift 2=-6 (LC 11), 11=-27 (LC 16), 15=-21 (LC 15), 16=-18 (LC 15), 17=-25 (LC 15), 21=-6 (LC 11) Max Grav 2=148 (LC 2), 10=78 (LC 2), 11=189 (LC 34), 12=151 (LC 2), 13=171 (LC 33), 16=156 (LC 2), 17=170 (LC 33), 18=78 (LC 2), 21=148 (LC 2)				<ul> <li>DOL=1.60 plate grip DOL=1.33</li> <li>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.</li> <li>TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10</li> <li>Unbalanced snow loads have been considered for this design.</li> <li>This truss has been designed for greater of min roof live loads.</li> <li>All plates are 2x4 MT20 unless otherwise indicated.</li> <li>Gable requires continuous bottom chord bearing.</li> </ul>							CARO		
FORCES	(lb) - Maxim Tension	ium Comp	pression/Maximum	9) 10	) * This truss h on the botton	as been designed f chord in all areas	or a liv where	e load of 20.0 a rectangle	psf			1111		FAL
TOP CHORD	1-2=0/31, 2- 4-5=-49/70, 7-8=-45/70,	-3=-60/41  5-6=-60  8-9=-47	, 3-4=-56/33, 119, 6-7=-60/119, 21, 9-10=-41/17	11	3-06-00 tall b chord and an	y 2-00-00 wide will y other members.	fit betw	een the botto	m			11111	03	6322
BOT CHORD	2-17=-35/56 14-15=-10/5 11-12=-10/5	6, 16-17≕ 56, 13-14 56, 10-11=	-10/56, 15-16=-10/56 =-10/56, 12-13=-10/5 =-10/56	<ul> <li>(11) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.</li> <li>(0/56, 0/56, 12) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at it(s) 2, 15, 16.</li> </ul>								INEER		
VVEB2	6-14=-92/0, 3-17=-123/8 9-11=-132/9	5-15=-12 36, 7-13≕ 90	:9/00, 4-16=-118/86, 130/87, 8-12=-116/8	, 84,	17, 13, 12, ar does not con	nd 11. This connect sider lateral forces.	ion is f	or uplift only a	and				November	. GILB

Job	Truss	Truss Type	Qty	Ply		
19110027-A	C02	Common	3	1	Job Reference (optional)	E13783381

Run: 8.32 E Oct 29 2019 Print: 8.320 E Oct 29 2019 MiTek Industries, Inc. Wed Nov 20 08:32:56

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



	8-1-12	16-3-8
	8-1-12	8-1-12
Scale = 1:40.4		

#### Plate Offsets (X, Y): [2:0-0-13,0-1-8], [4:0-0-13,0-1-8], [5:0-3-0,0-3-4]

	- ( ) / L	,	1) E = = = ; = = = 1) E=	,	,								-	
Loading TCLL (roof) Snow (Pf/Pg TCDL BCLL BCDL	3)	(psf) 20.0 13.9/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2015	5/TPI2014	CSI TC BC WB Matrix-MSH	0.99 0.72 0.11	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.14 -0.26 0.02	(loc) 5-8 5-8 2	l/defl >999 >767 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 59 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHOR BOT CHOR WEBS BRACING TOP CHOR BOT CHOR REACTION:	D 2x4 SI D 2x4 SI 2x4 SI D Struct D Rigid bracin <b>S</b> (lb/size) Max Hp Max Up Max Gr	P No.2 P No.2 P No.3 ural wood she ceiling directly g. ) 2=597/0-1 vriz 2=50 (LC u, 2=708 (I / LC u, 2=708 (I / LC)	eathing directly applied v applied or 10-0-0 oc 3-0, 4=550/0-3-8 12) 15) 0.2) 4=650 (LC 2)	5) 6) 1. 7) 8)	This truss ha load of 12.0 overhangs n * This truss h on the bottor 3-06-00 tall l chord and ar All bearings capacity of 5 One RT7A U truss to bear connection is	is been designed for psf or 2.00 times fla on-concurrent with has been designed in chord in all areas by 2-00-00 wide will by other members. are assumed to be 65 psi. ISP connectors reco ing walls due to UP s for uplift only and	r greate tt roof lo other liv for a liv where fit betw SP No. SP No. LIFT at does no	er of min roof bad of 13.9 p re loads. e load of 20.1 a rectangle veen the bott 2 crushing ded to conne jt(s) 2. This ot consider la	f live osf on Opsf com ect					
FORCES TOP CHOR	(lb) - M Tensio D 1-2=0, 3-13=:	Maximum Con on /31, 2-12=-924 -775/238 4-1:	hpression/Maximum 4/218, 3-12=-768/239, 3=-923/218	9)	This truss is International R802.10.2 a	designed in accord Residential Code s nd referenced stand	ance wi ections lard AN	th the 2015 R502.11.1 a ISI/TPI 1.	and					
BOT CHOR WEBS	D 2-5=-1 3-5=0,	108/735, 4-5=- /256	101/735	LC	AD CASE(S)	Standard								
NOTES														
<ol> <li>Unbalar this design</li> </ol>	nced roof li ign.	ve loads have	been considered for											1111111
2) Wind: A Vasd=10 Cat. II; E Exterior vertical forces 8	SCE 7-10; 03mph; TC Exp B; Enc (2) zone; ( left and rig MWFRS	Vult=130mph DL=6.0psf; B losed; MWFR cantilever left ht exposed;C- for reactions s	a (3-second gust) CDL=6.0psf; h=25ft; S (envelope) and C-C and right exposed ; er -C for members and shown; Lumber	; nd								L	THORTH RTH	CARO,

DOL=1.60 plate grip DOL=1.33 TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground 3) snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10

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





Job	Truss	Truss Type	Qty	Ply		
19110027-A	D01	Monopitch Supported Gable	1	1	Job Reference (optional)	E13783382

Run: 8.32 E Oct 29 2019 Print: 8.320 E Oct 29 2019 MiTek Industries, Inc. Wed Nov 20 09:45:40  $ID: \_0gbSlbk1\_1VX6c4K6CoiQyHM9T-ofxMO6?dEyBbCZIHuLxZJPXNYpqEggCyvAVdNTyHL9f$ 

Page: 1







		i										
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 13.9/20.0 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 IRC2015/TPI2014	CSI TC BC WB Matrix-MP	0.15 0.12 0.05	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 2	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 26 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD BOT CHORD REACTIONS (Ib) FORCES NOTES 1) Wind: AS Vasd=100 Cat. II; E> Exterior ( vertical le forces & I DOL=1.6( 2) Truss des only. For see Stand or consult 3) TCLL: AS DOL=1.11 3) TCLL: AS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 2x4 SP No.3 Structural wood shee 6-0-0 oc purlins, exc Rigid ceiling directly bracing. All bearings 6-0-0. Max Horiz 2=84 (LC Max Uplift All uplift 11 2, 5, 6, 7 Max Grav All reactio (s) 2, 5, 7 (lb) - Max. Comp./Ma (lb) or less except wi CE 7-10; Vult=130mph 3mph; TCDL=6.0psf; BG (cp B; Enclosed; MWFRS (p B; Enclosed; MWFRS 9) zone; cantilever left a ft and right exposed;C-I WWFRS for reactions sl 0 plate grip DOL=1.33 signed for wind loads in studs exposed to wind dard Industry Gable End t qualified building desig (SE 7-10; Pr=20.0 psf (in S Plate DOL=1.15); Pg= =13.9 psf (flat roof snov L=1.15); Category II; Ex-	athing directly applie cept end verticals. applied or 10-0-0 oc 14), 7=84 (LC 14) 00 (lb) or less at join ns 250 (lb) or less at except 6=315 (LC 2) ax. Ten All forces 2 hen shown. (3-second gust) CDL=6.0psf; h=25ft; S (envelope) and C-0 and right exposed; e C for members and hown; Lumber the plane of the trus (normal to the face), d Details as applicab gner as per ANSI/TP roof live load: Lumbe =20.0 psf (ground w: Lumber DOL=1.15 cp B; Fully Exp.; en considered for thi	5) This truss load of 12 overhang 6) Gable rec 7) Gable stu 8) * This trus on the bo 3-06-00 t chord and 9) One RT4 truss to b This conr lateral for 10) This truss Intermatic R802.10. LOAD CASE C nd s , le, 11. ar	has been designed .0 psf or 2.00 times f s non-concurrent with uires continuous bot ds spaced at 2-0-0 o is has been designee tom chord in all area all by 2-00-00 wide w any other members USP connectors reci- earing walls due to U ection is for uplift onl zes. is designed in accor al Residential Code 2 and referenced star <b>S)</b> Standard	for greate flat roof lo h other lix tom chor ic. d for a liv as where ill fit betw. ommendu IPLIFT at ly and do rdance wi s sections ndard AN	er of min roof bad of 13.9 ps re loads. d bearing. e load of 20.0 a rectangle reen the botto ed to connect jt(s) 2, 5, and es not consid th the 2015 R502.11.1 a ISI/TPI 1.	live sf on Opsf om t 6. Jer and			Contraction of the second seco		CARO SEAL 36322

November 20,2019

818 Soundside Road Edenton, NC 27932

🔥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, DSB-89 and BCSI Building Comp	onent
Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.	

Job	Truss	Truss Type	Qty	Ply		
19110027-A	D02	Monopitch	6	1	Job Reference (optional)	E13783383

#### Run: 8.32 E Oct 29 2019 Print: 8.320 E Oct 29 2019 MiTek Industries, Inc. Wed Nov 20 08:32:58 ID:\_0gbSlbk1\_1VX6c4K6CoiQyHM9T-pQXG\_ofz\_DrjPwcGpc?bSjz37egb72PohdvJedyHLLZ

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6-0-0

cale = 1:30.4	
cale = 1:30.4	

S

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 13.9/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	5/TPI2014	<b>CSI</b> TC BC WB Matrix-MP	0.52 0.40 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.06 -0.12 0.00	(loc) 4-7 4-7 2	l/defl >999 >582 n/a	L/d 240 180 n/a	<b>PLATES</b> MT20 Weight: 24 lb	<b>GRIP</b> 244/190 FT = 20%	
LUMBER TOP CHORD SOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood shea 6-0-0 oc purlins, exc Rigid ceiling directly bracing.	athing directly applie ept end verticals. applied or 10-0-0 oc	5) 6) d or 7) 8)	* This truss h on the bottom 3-06-00 tall b chord and an Bearings are capacity of 5 Refer to girde Provide mecl bearing plate 4.	as been designed f n chord in all areas y 2-00-00 wide will y other members. assumed to be: Joi 35 psi. ar(s) for truss to trus nanical connection ( capable of withstar	or a live where fit betw nt 2 SF ss conn (by othe nding 1	e load of 20.0 a rectangle reen the botto P No.2 crushin ections. ers) of truss to 4 lb uplift at jo	Dpsf om ng o pint						
REACTIONS FORCES	(Ib/size) 2=245/0-3 Max Horiz 2=84 (LC Max Uplift 2=-11 (LC Max Grav 2=293 (LC (Ib) - Maximum Com Tension 1-2=0/27, 2-8=-107/6	-8, 4=195/ Mechanic 14) 15), 4=-14 (LC 15) 2), 4=230 (LC 2) pression/Maximum 32, 3-8=-90/78,	cal 9) 10	<ul> <li>One RT7A U truss to beari connection is forces.</li> <li>This truss is international R802.10.2 ar</li> </ul>	SP connectors reco ng walls due to UPI for uplift only and o designed in accorda Residential Code so d referenced stand	IFT at IFT at loes no ance wi ections ard AN	ded to conner jt(s) 2. This of consider lat th the 2015 R502.11.1 a SI/TPI 1.	ct teral nd						
BOT CHORD NOTES	2-4=-75/89		LC	DAD CASE(S)	Standard									
<ol> <li>Wind: ASI Vasd=103 Cat. II; Ex Exterior (2 vertical le forces &amp; M</li> </ol>	CE 7-10; Vult=130mph Bmph; TCDL=6.0psf; BC p B; Enclosed; MWFRS 2) zone; cantilever left a ft and right exposed;C-( MWFRS for reactions sh	(3-second gust) CDL=6.0psf; h=25ft; S (envelope) and C-( ind right exposed ; e C for members and hown; Lumber	C Ind									NU ORTH	CARO	

- DOL=1.60 plate grip DOL=1.33
  2) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on overhangs non-concurrent with other live loads.





Job	Truss	Truss Type	Qty	Ply		
19110027-A	D03	Half Hip	4	1	E13783384 Job Reference (optional)	

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November 20,2019

818 Soundside Road Edenton, NC 27932





Scale = 1:30.2

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

		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		тс	0.71	Vert(LL)	-0.02	7-10	>999	240	MT20	244/190
Snow (Pf/Pg)	18.9/20.0	Lumber DOL	1.15		BC	0.27	Vert(CT)	-0.03	7-10	>999	180		
TCDL	10.0	Rep Stress Incr	NO		WB	0.11	Horz(CT)	0.00	6	n/a	n/a		
BCLL	0.0*	Code	IRC201	5/TPI2014	Matrix-MP								
BCDL	10.0											Weight: 26 lb	FT = 20%
LUMBER			4)	Unbalanced	snow loads have be	en cor	sidered for th	is					
TOP CHORD	2x4 SP No.2		,	design.									
BOT CHORD	2x4 SP No.2		5)	This truss ha	s been designed for	greate	er of min roof	live					
WEBS	2x4 SP No.3			load of 12.0 p	osf or 2.00 times flat	roof lo	bad of 13.9 ps	f on					
BRACING			0)	overhangs no	on-concurrent with o	other liv	e loads.						
TOP CHORD	Structural wood shea	athing directly applied	dor 6)	* This trues h	uate drainage to pre	event \	vater ponding						
	6-0-0 oc purlins, exc	cept end verticals, an	d /)	on the botton	as been designed in	vhoro	e load of 20.0	psi					
	2-0-0 oc purlins: 4-7,	, 4-5.		3-06-00 tall b	v 2-00-00 wide will f	fit betv	een the botto	m					
BUICHURD	bracing	applied of 10-0-0 oc		chord and an	y other members.								
REACTIONS	(lb/size) 2=285/0-3	-8 6=380/ Mechanic	al <sup>8)</sup>	Bearings are	assumed to be: Join	nt 2 SF	P No.2 crushi	ng					
	Max Horiz 2=60 (I C	12)		capacity of 5	65 psi.								
	Max Uplift 2=-7 (LC 1	15), 6=-14 (LC 12)	9)	Refer to girde	er(s) for truss to trus	s conr	ections.	_					
	Max Grav 2=391 (LC	C 35), 6=403 (LC 2)	10	<ul> <li>Provide meci</li> <li>booring plate</li> </ul>	anical connection (	DY OTN	A lb uplift of it	) Dint					
FORCES	(lb) - Maximum Com	pression/Maximum		6.		iung i	4 ib upilit at j	JIII					
	Tension		11	) One RT7A U	SP connectors reco	mmen	ded to conne	ct					
TOP CHORD	1-2=0/29, 2-3=-342/1	120, 4-7=0/88, 3-4=-9	9/60,	truss to beari	ng walls due to UPL	IFT at	jt(s) 2. This						
DOTOLODD	4-11=-19/20, 5-11=-	19/20, 5-6=-179/95		connection is	for uplift only and d	loes no	ot consider lat	eral					
BOLCHORD	2-7=-158/277, 6-7=-2	228/437		forces.									
WEBS	4-6=-491/241		12	) This truss is (	designed in accorda	ince w	th the 2015	ad					11111
NOIES	ad reaf live leads have	heen ennidered for		R802 10 2 ar	d referenced stand	ard AN	ISI/TPI 1	lu				annin.	CAD
this design		been considered for	13	Graphical pu	rlin representation d	oes no	ot depict the s	ize				"TH	UARO
2) Wind AS	CF 7-10: Vult=130mph	(3-second qust)		or the orienta	tion of the purlin alo	ong the	top and/or	.20				~ 0h.::	SER AIL
Vasd=103	Smph; TCDL=6.0psf; B0	CDL=6.0psf; h=25ft;		bottom chord		0	•						PL: Sil
Cat. II; Ex	p B; Enclosed; MWFRS	S (envelope) and C-C	; 14	) In the LOAD	CASE(S) section, lo	ads a	oplied to the f	ace			~	.00	Jul.
Exterior (2	2) -0-11-0 to 5-10-4 zon	ne; cantilever left and		of the truss a	re noted as front (F)	) or ba	ck (B).				-		
right expo	sed ; end vertical left a	nd right exposed;C-C	; LC	DAD CASE(S)	Standard						- 5		SEAL E
for member	ers and forces & MWFF	RS for reactions show	vn; 1)	Dead + Sno	w (balanced): Lumb	per Inc	rease=1.15, F	Plate			1	: 03	36322 : =
		L=1.33	_	Increase=1.	15								
3) TOLL: AS	CE 7-10; PI=20.0 pSI (I 5 Plate DOI –1 15): Pa-	-20 0 psf (ground		Uniform Loa	ads (ID/ft)	100) 0	0 00				-		
snow): Pf=	=18.9 psf (flat roof snov	v: Lumber DOL=1.15		vent: 1-3	=-48, 4-5=-158 (F=-	100), 6	-8=-20					- A SNI	OWNEER X
Plate DOL	=1.15); Category II; Ex	p B; Fully Exp.;										12910	ALL REAL
Ct=1.10, L	_u=50-0-0											IL A	GILB
												1111	
													00.0010

Job	Truss	Truss Type	Qty	Ply		
19110027-A	E01	Common Supported Gable	1	1	Job Reference (optional)	E13783385

Run: 8.32 E Oct 29 2019 Print: 8.320 E Oct 29 2019 MiTek Industries, Inc. Wed Nov 20 09:45:59 ID:SDEzg4cMol9M9GBGtpj1FeyHM9S-kJbYOcEXmnbu\_UiwWrn1aQpdzTJZdG5IGdb7YsyHL9M







Job	Truss	Truss Type	Qty	Ply		
19110027-A	E02	Common	5	1	Job Reference (optional)	E13783386

5-11-8

5-11-8

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#### Run: 8.32 E Oct 29 2019 Print: 8.320 E Oct 29 2019 MiTek Industries, Inc. Wed Nov 20 08:33:01 ID:SDEzg4cMoI9M9GBGtpj1FeyHM9S-mof0PTgEWq5RfDmew123X82R1SLtbxg58xOQiWyHLLX

11-11-0

5-11-8



12-9-8

0-10-8



<u>-0-10</u>-8

0-10-8



					5-11-8					11-11-	0			
Scale = 1:30.5					5-11-8		I			5-11-8	3			
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 13.9/20.0 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 IRC201	5/TPI2014	<b>CSI</b> TC BC WB Matrix-MSH	0.43 0.48 0.08	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.05 -0.09 0.01	(loc) 6-9 6-9 4	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 42 lb	<b>GRIP</b> 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood shea 5-5-3 oc purlins. Rigid ceiling directly bracing. (lb/size) 2=445/0-3 Max Horiz 2=-23 (LC Max Uplift 2=-31 (LC Max Grav 2=529 (LC	athing directly applie applied or 10-0-0 oc -8, 4=445/0-3-8 20) 11), 4=-31 (LC 12) 2 2), 4=529 (LC 2)	5) 6) d or <u>-</u> 7) 8) 9)	This truss ha load of 12.0 overhangs n * This truss I on the botton 3-06-00 tall I chord and al All bearings capacity of 5 One RT7A L truss to bear This connec lateral forces This truss is	as been designed for psf or 2.00 times fil- ion-concurrent with has been designed m chord in all areas by 2-00-00 wide wil ny other members. are assumed to be 365 psi. JSP connectors rec- ring walls due to UF tion is for uplift only S. designed in accorr	or great at roof lo other liv for a liv s where I fit betv SP No. SP No. PLIFT at and do lance w	er of min roof oad of 13.9 p ve loads. e load of 20.1 a rectangle veen the bott 2 crushing ded to conne jt(s) 2 and 4 es not consid ith the 2015	f live list on Opsf com ect c. der						
FORCES	(Ib) - Maximum Com Tension 1-2=0/21, 2-13=-886 3-14=-823/261, 4-14	pression/Maximum /251, 3-13=-823/261 =-886/251, 4-5=0/21	, L(	International R802.10.2 a DAD CASE(S)	Residential Code nd referenced stan Standard	sections dard AN	R502.11.1 a ISI/TPI 1.	and						
WEBS	2-6=-172/798, 4-6=- 3-6=0/192	172/798												
NOTES														
<ol> <li>Unbalanc this desig</li> <li>Wind: AS Vasd=103 Cat. II; Ex Exterior (2 vertical le forces &amp; N DOL=1.60</li> <li>TCLL: AS DOL=1.15 snow); Pfr Plate DOI Ct=1.10</li> <li>Unbalanc design</li> </ol>	ed roof live loads have n. CE 7-10; Vult=130mph 3mph; TCDL=6.0psf; B( p B; Enclosed; MWFRS 2) zone; cantilever left a ft and right exposed;C-1 MWFRS for reactions sl 0 plate grip DOL=1.33 CE 7-10; Pr=20.0 psf (1 5 Plate DOL=11.5); Pg= =13.9 psf (flat roof snov _=1.15); Category II; Ex ed snow loads have be	peen considered for (3-second gust) CDL=6.0psf; h=25ft; S (envelope) and C-i and right exposed ; e C for members and nown; Lumber noof live load: Lumbe =20.0 psf (ground v: Lumber DOL=1.1! to B; Fully Exp.; en considered for th	C and 5 is								Mannun.	OR OF	CARO SEAL 36322	Mannunnin

- DOL=1.60 plate grip DOL=1.33 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this 4) design.



Α. GI The Grant November 20,2019

Job	Truss	Truss Type	Qty	Ply		
19110027-A	V01	Valley	1	1	Job Reference (optional)	E13783387

FORCES

TOP CHORD

BOT CHORD

(lb) - Maximum Compression/Maximum

1-2=-57/214, 2-3=-12/208, 3-4=0/209,

4-27=0/175, 5-27=0/211, 5-6=0/205,

6-7=0/205, 7-28=0/210, 8-28=0/162,

1-21=-163/81, 20-21=-163/81,

19-20=-163/81, 18-19=-163/81,

17-18=-163/81, 16-17=-163/81,

15-16=-163/81, 14-15=-163/81, 13-14=-163/81, 12-13=-163/81,

8-9=0/212, 9-10=-11/197, 10-11=-57/220

Tension

11-12=-163/81

Run: 8.32 E Oct 29 2019 Print: 8.320 E Oct 29 2019 MiTek Industries, Inc. Wed Nov 20 08:33:01 ID:d3siP1XbCSPCRLj7XYcd?NyHM9Y-E?DOcphsH8DIGNLrUkZI4MbgesmMKM?ENa8zEyyHLLW



Scale = 1:42.6													I
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 13.9/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	5/TPI2014	CSI TC BC WB Matrix-MSH	0.18 0.14 0.14	<b>DEFL</b> Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a -0.01	(loc) - - 11	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 101 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS (	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood she 10-0-0 cc purlins. Rigid ceiling directly bracing. (lb/size) 1=27/21- 12=239/2 14=149/2 16=260/2 19=135/2 Max Horiz 1=-56 (LC Max Uplift 1=-14 (LC 13=-26 (L 15=-19 (L 21=-23 (L 13=85 (L) 13=85 (L) 13=85 (L) 13=85 (L) 13=873 (L) 18=175 (L)	Pathing directly applied y applied or 6-0-0 oc 7-0, 11=0/21-7-0, 11-7-0, 13=72/21-7-0, 11-7-0, 15=141/21-7-0 11-7-0, 20=126/21-7-0 11-7-0, 20=126/21-7-0	N N 1) d or 2) , , , , , , , , , , , , , , , , , , ,	The set of	5-16=-266/0, 5-18= 3-20=-117/82, 2-21 3-14=-124/84, 9-13 roof live loads hav 7-10; Vult=130mp b; TCDL=6.0psf; 3; Enclosed; MWFI one; cantilever left nd right exposed; (FRS for reactions ate grip DOL=1.33 red for wind loads ids exposed to wind 1 Industry Gable E tailified building des 7-10; Pr=20.0 psf iate DOL=1.15); P 8.9 psf (flat roof sn .15); Category II; I snow loads have the atx3 MT20 unless	-136/83 =-140/8 =-87/81 e been of h (3-sec 3CDL=6 RS (envet and right C-C for m shown; 1 in the pl d (norman nd Detai signer as (roof liv/ g=20.0 p bow: Lum Exp B; F been con-	, 4-19=-119/8 3, 7-15=-136, , 10-12=-172/ considered for ond gust) .0psf; h=25ft; elope) and C- nt exposed ; e nembers and Lumber ane of the tru al to the face) Is as applicat ; per ANSI/TF e load: Lumbor sf (ground ber DOL=1.1: ully Exp.; sidered for th se indicated.	94, /83, /85 r C end iss ), ole, PI 1. er 5 s is	12) One truss 21, and 13) This Inte R80 LOAD C	RT4 US s to bea 15, 14, 1 does no truss is mationa 2.10.2 a <b>ASE(S</b> )	SP cor ring wa 13, anc t cons c desig I Resic I Resic I Resic ) Star	nectors recomm alls due to UPLIF d 12. This conner ider lateral force ned in accordanc dential Code sec erenced standar ndard	ended to connect T at jt(s) 18, 19, 20, ction is for uplift only s. ce with the 2015 tions R502.11.1 and d ANSI/TPI 1.

- Gable requires continuous bottom chord bearing. 7)
- 8) Gable studs spaced at 2-0-0 oc.
- \* 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 1.
- MALINITIAN IN SEAL 036322 G١ minum November 20,2019

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818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply		
19110027-A	V02	Valley	1	1	Job Reference (optional)	E13783388

Run: 8.32 F. Oct 29 2019 Print: 8.320 F. Oct 29 2019 MiTek Industries. Inc. Wed Nov 20 08:33:02 ID:5FQ4cNYDzIX33VIJ5G8sYayHM9X-iBnmq9iU2SL9uXw12S4XcZ8pjF6r3qVObEtWnPyHLLV







#### WFBS 3-7=-336/61, 2-9=-294/182, 4-6=-294/182

NOTES

Loading

TCDL

BCLL

BCDL

OTHERS

- Unbalanced roof live loads have been considered for 1) this desian.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (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=1.33
- 3) 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.

- 7) Gable studs spaced at 4-0-0 oc. 8) \* 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. All bearings are assumed to be SP No.2 crushing 9) capacity of 565 psi. 10) One RT4 USP connectors recommended to connect
- truss to bearing walls due to UPLIFT at jt(s) 9 and 6. This connection is for uplift only and does not consider lateral forces.
- 11) This truss is designed in accordance with the 2015 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		
19110027-A	V03	Valley	1	1	Job Reference (optional)	E13783389

Run: 8.32 F. Oct 29 2019 Print: 8.320 F. Oct 29 2019 MiTek Industries. Inc. Wed Nov 20 08:33:03 ID:5FQ4cNYDzIX33VIJ5G8sYayHM9X-ANL91Vj6pIU0WhVDb9bm9ng0HfThoIrXqud4JryHLLU



818 Soundside Road Edenton, NC 27932



Job	Truss	Truss Type	Qty	Ply		
19110027-A	V04	Valley	1	1	E Job Reference (optional)	13783390

2-5-0





9-7-0

Scale = 1:26.5

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL	(psf) 20.0 13.9/20.0 10.0 0.0*	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC20	15/TPI2014	CSI TC BC WB Matrix-SH	0.22 0.16 0.05	<b>DEFL</b> Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	<b>GRIP</b> 244/190
BCDL	10.0	-			-							Weight: 31 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood shea 6-0-0 oc purlins. Rigid ceiling directly bracing. (lb/size) 1=127/9-7 4=316/9-7 Max Horiz 1=-23 (LC Max Uplift 1=-8 (LC - 4=371 (LC (lb) - Maximum Com Tension	athing directly applie applied or 10-0-0 oc 7-0, 3=127/9-7-0, 7-0 15), 3=-12 (LC 16) 2 32), 3=153 (LC 33) 2 2) pression/Maximum	4 d or 5 ; 6 7 8 8	<ul> <li>) TCLL: ASCE DOL=1.15 Pl snow); Pf=13 Plate DOL=1 Ct=1.10</li> <li>) Unbalanced design.</li> <li>) Gable require Gable studs</li> <li>) This truss h on the bottom 3-06-00 tall b chord and ar</li> <li>) All bearings a capacity of 5</li> <li>On RT4 US truss to bearing</li> </ul>	7-10; Pr=20.0 ate DOL=1.15) 3.9 psf (flat roof .15); Category snow loads hav es continuous b spaced at 4-0-0 nas been design n chord in all ar by 2-00-00 wide yo other membe are assumed to 65 psi. P connectors ri ing walls due to ion is for unlift of	psf (roof liv ; Pg=20.0 p snow: Lum II; Exp B; F re been cor ottom chor ) oc. hed for a liv eas where will fit betw rs. be SP No. ecommende UPLIFT at	e load: Lumb sf (ground ber DOL=1. ully Exp.; asidered for t d bearing. e load of 20. a rectangle veen the bott 2 crushing ed to connec jt(s) 1 and 3	ber 15 his Opsf om t					
TOP CHORD	1-5=-85/41, 2-5=-14/	/52, 2-6=-14/52,		lateral forces		ing and do							
BOT CHORD WEBS	1-4=0/29, 3-4=0/29 2-4=-231/121		1	1) This truss is International R802.10.2 ar	designed in acc Residential Co nd referenced s	cordance wi de sections tandard AN	itn the 2015 R502.11.1 a ISI/TPI 1.	and					
NOTES	ad roof live loads have	been considered for	L	OAD CASE(S)	Standard							min	

this design.
Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (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=1.33

 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. SEAL 036322 November 20,2019

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Job	Truss	Truss Type	Qty	Ply	
19110027-A	V05	Valley	1	1	E13783391 Job Reference (optional)

Run: 8.32 E Oct 29 2019 Print: 8.320 E Oct 29 2019 MiTek Industries, Inc. Wed Nov 20 08:33:04 ID:ZS\_TqjZrk3fwgftVezf54oyHM9W-eavXFrjka3ct7r4Q9t6?i\_DCP3qhXIXg3YMdrHyHLLT







5-7-0

Scale = 1:22.4

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 13.9/20.0 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	5/TPI2014	CSI TC BC WB Matrix-P	0.08 0.03 0.02	<b>DEFL</b> Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 17 lb	<b>GRIP</b> 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood sheathing directly applied or 5-8-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing. (Ib/size) 1=74/5-7-0, 3=74/5-7-0, 4=149/5-7-0 Max Horiz 1=12 (LC 14) Max Uplift 1=-7 (LC 15), 3=-10 (LC 16) Max Grav 1=89 (LC 2), 3=89 (LC 2), 4=174 (LC 2)			TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=13.9 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10 Unbalanced snow loads have been considered for this design. Gable requires continuous bottom chord bearing. Gable studs spaced at 4-0-0 oc. * 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. All bearings are assumed to be SP No.2 crushing capacity of 565 psi.										
ORCES       (lb) - Maximum Compression/Maximum Tension         OP CHORD       1-2=-39/29, 2-3=-39/29         OT CHORD       1-4=0/15, 3-4=0/15         VEBS       2-4=-119/78         IOTES       )         )       Unbalanced roof live loads have been considered for this design.         )       Wind: ACCE 7 10; Vult=120mph (2 accord rust)			11 r <b>LC</b>	<ul> <li>truss to bearing walls due to UPLIFT at jt(s) 1 and 3. This connection is for uplift only and does not consider lateral forces.</li> <li>11) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.</li> <li>LOAD CASE(S) Standard</li> </ul>									CARO	

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior (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=1.33

 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.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



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