

Trenco 818 Soundside Rd Edenton, NC 27932

# Re: 22040115 DRB - 79 FARM AT NEILLS CREEK

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: I51986848 thru I51986882

My license renewal date for the state of North Carolina is December 31, 2022.

North Carolina COA: C-0844



May 17,2022

## 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 - 79 FARM AT NEILLS CREEK	
22040115	A01	Piggyback Base	6	1	Job Reference (optional)	151986848

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon May 16 22:38:36 ID:vmWSYKxMeSKeeaoGnh3QrczhvSE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

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818 Soundside Road Edenton, NC 27932



Scale = 1:97.2

Plate Offsets (X, Y): [10:0-5-0,0-4-8]

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 IRC201	8/TPI2014	<b>CSI</b> TC BC WB Matrix-MSH	0.68 0.62 0.62	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.17 -0.35 0.04	(loc) 22-23 22-23 13	l/defl >861 >422 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 476 lb	<b>GRIP</b> 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING	2x6 SP No.2 2x6 SP No.2 2x4 SP No.3 *Exce 18-6,18-8,16-8,16-8 No.2 Right 2x6 SP No.2	pt* ),20-4,20-5,24-25:2x4 1-6-0	W 4 SP	/EBS 2 6 1 1 4 5	2-22=-394/225, 3-2 3-25=-521/143, 18- 3-18=-1042/321, 8- 0-16=-825/247, 1( 1-14=-240/191, 2- 1-20=-244/60, 20-2 5-24=-334/129, 24- 9-26=0/45	2=-1369 25=-53 16=-154 2-14=-42 23=-37/ 4=-346/ 26=-6/8	9/168, 3/130, 4/951, 9-16=0 2/531, /313, 3-20=0/i /116, 4, 25-26=-6/8,	)/192, 863,	9) One reco UPI upli 10) This Inte R80 11) Gra	H2.5A H2.5A FT at ji t only a truss is rnationa 2.10.2 a phical p	Simps led to o t(s) 22 nd doe desig l Resid and ref urlin re	on Strong-Tie cc connect truss to , 18, 23, and 13. is not consider la ned in accordan dential Code sec erenced standar spresentation do	nnectors bearing walls of This connection teral forces. the with the 20° tions R502.11 d ANSI/TPI 1. tes not depict t	due to on is for 18 .1 and he size
TOP CHORD	Structural wood she 4-8-0 oc purlins, e: 2-0-0 oc purlins (6-	eathing directly applie ccept end verticals, a 0-0 max.): 4-9.	ed or <b>N</b> Ind 1)	OTES Unbalanced this design.	roof live loads have	e been o	considered fo	r	bott LOAD (	om chor CASE(S)	d. d.	ndard	j the top and/	JL
BOT CHORD	Rigid ceiling directl bracing, Except: 6-0-0 oc bracing: 2	y applied or 10-0-0 oc 2-23,20-22.	c 2)	Wind: ASCE Vasd=103mp Cat. II; Exp B	7-16; Vult=130mp bh; TCDL=6.0psf; E ; Enclosed; MWFF	h (3-sec BCDL=6 RS (env	cond gust) .0psf; h=25ft; elope) exterio	or						
WEBS	1 Row at midpt	3-22, 6-18, 8-18, 10 4-20, 5-20, 24-25	)-16,	zone and C-0 11-2-2 to 17-	C Exterior(2E) 5-7- 5-0, Exterior(2R) 1	0 to 11- 7-5-0 to	2-2, Interior ( 28-7-3, Inter	1) ior						
REACTIONS	(lb/size) 13=1060 22=1647 Max Horiz 23=263 ( Max Uplift 13=-103 22=-73 ( Max Grav 13=1266 22=1874	/0-3-8, 18=1697/0-3- /0-3-8, 23=258/0-3-8 LC 11) (LC 15), 18=-73 (LC LC 14), 23=-87 (LC 1 (LC 52), 18=1961 (L (LC 34), 23=419 (LC	8, 10), 0) .C 6), 3) C 43)	(1) 28-7-3 to Interior (1) 49 61-4-4 zone; vertical left al forces & MW DOL=1.60 pl TCLL: ASCE	38-0-0, Exterior(2) 3-5-6 to 55-9-2, Ex cantilever left and nd right exposed;C FRS for reactions ate grip DOL=1.60 7-16; Pr=20.0 psf (45), Pf = 20.0 psf	right ex -C for n shown; (roof LL	0 to 49-5-6, E) 55-9-2 to posed ; end nembers and Lumber .: Lum DOL= <sup>2</sup>	1.15				WITH CA	RO	
FORCES	(lb) - Maximum Cor Tension	npression/Maximum	,	DOL=1.15); I	s=1.0; Rough Cat	B; Fully	Exp.; Ce=0.9	);			E.	OFFESE	Do N	in a
TOP CHORD	1-2=-177/92, 2-3=-/ 4-5=-199/182, 5-6= 8-9=-673/331, 9-11 11-13=-1745/332, 1	42/484, 3-4=-346/158 -302/218, 6-8=-157/1 =-1587/350,  -23=-313/130	3, 4) 176, 5)	Unbalanced design. 200.0lb AC u	nit load placed on	een cor	nsidered for th om chord, 23	nis -8-8			Ø	SEA	L	
BOT CHORD	22-23=-264/121, 20 19-20=-109/380, 18 16-18=-55/487, 14- 13-14=-183/1417	0-22=-386/203, 3-19=-109/380, 16=-56/1141,	6) 7) 8)	<ul> <li>Provide adec</li> <li>This truss ha</li> <li>chord live loa</li> <li>This truss h</li> <li>on the botton</li> <li>3-06-00 tall b</li> <li>chord and an</li> </ul>	juate drainage to p s been designed fi dd nonconcurrent w as been designed n chord in all areas y 2-00-00 wide wil y other members,	or a 10.0 vith any for a liv where l fit betw with BC	water ponding 0 psf bottom other live load e load of 20.0 a rectangle ween the botto DL = 10.0psf	g. ds. )psf om		11 WY		0363	EER.X	Thunne .

Job	Truss	Truss Type	Qty	Ply	DRB - 79 FARM AT NEILLS CREEK	
22040115	A02	Piggyback Base	1	1	Ich Reference (ontional)	151986849

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon May 16 22:38:39 ID:vmWSYKxMeSKeeaoGnh3QrczhvSE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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May 17,2022

818 Soundside Road Edenton, NC 27932



### Scale = 1:98.5

Plate Offsets (	ate Offsets (X, Y): [4:0-3-12,0-3-12], [8:0-3-12,0-3-0], [18:0-3-4,0-4-8], [19:0-5-0,0-4-8]													
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 IRC201	8/TPI2014	<b>CSI</b> TC BC WB Matrix-MSH	0.55 0.55 0.91	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.16 -0.23 0.02	(loc) 15-17 15-17 13	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 467 lb	<b>GRIP</b> 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING	2x6 SP No.2 2x6 SP 2400F 2.0E <sup>-</sup> No.2 2x4 SP No.3 *Excep 17-7,17-8,18-7,19-4, No.2 Right 2x6 SP No.2	*Except* 19-18:2x6 t* 18-4,18-5,15-8:2x4 1-6-0	N( 1) SP 2) SP	DTES Unbalanced this design. Wind: ASCE Vasd=103mp Cat. II; Exp B zone and C-( 11-2-2 to 17- (1) 28-7-3 to Interior (1) 40	roof live loads hav 7-16; Vult=130mp h; TCDL=6.0psf; f ; Enclosed; MWFi C Exterior(2E) 5-7- 5-0, Exterior(2R) 1 38-2-5, Exterior(2R) -6-8 to 56-7-10	e been of h (3-sec 3CDL=6 RS (enve 0 to 11- 17-5-0 to R) 38-2-	considered for ond gust) .0psf; h=25ft; elope) exterior 2-2, Interior (1 28-7-3, Interi 5 to 49-6-8, ED 56-7-10 to	r I) ior	11) This Inte R80 12) Gra or th bott	s truss is rnationa 02.10.2 a phical pu ne orient om chor CASE(S)	desig I Resid Ind refurlin re ation c d. Star	ned in accordanc Jential Code sect erenced standarc presentation doe of the purlin along ndard	e with the 201 ions R502.11. I ANSI/TPI 1. s not depict th the top and/c	8 1 and e size r
TOP CHORD BOT CHORD WEBS WEBS REACTIONS	Structural wood she: 5-1-1 oc purlins, exc 2-0-0 oc purlins (6-0 Rigid ceiling directly bracing. 1 Row at midpt 2 Rows at 1/3 pts (lb/size) 13=758/0- 21=1158/C Max Horiz 21=259 (L Max Uplift 13=-133 (l 21=1331 (	athing directly applie cept end verticals, a -0 max.): 4-8. applied or 6-0-0 oc 8-17, 3-19, 4-18, 5- 7-17 3-8, 17=2798/0-3-8 D-3-8 C 13) LC 15), 21=-34 (LC C 53), 17=3220 (LC LC 60)	ed or nd 3) , 4) 14) 5) 3), 5)	<ul> <li>Interior (1) 49-6-8 to 56-7-10, Exterior(2E) 56-7-10 to 62-2-12 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces &amp; MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60</li> <li>3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: 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</li> <li>4) Unbalanced snow loads have been considered for this design.</li> <li>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 provider the process.</li> </ul>									BO	
FORCES TOP CHORD BOT CHORD WEBS	(ib) - Maximum Com Tension 1-2=-1707/177, 2-3= 3-4=-1374/217, 4-5= 7-8=0/615, 8-10=-88 11-13=-1125/244, 13 1-21=-1239/181 20-21=-236/202, 17- 15-17=-89/199, 13-1 1-20=-58/1668, 7-17 8-17=-1252/249, 7-1 2-20=-694/259, 3-20 3-19=-704/280, 4-19 5-18=-593/193, 10-1 8-15=-236/1351, 11-	pression/Maximum -1950/320, -499/196, 5-7=-499, 4/360, 10-11=-836/- 3-14=0/26, 20=-679/1352, 5=-82/901 =-1881/285, 8=-119/1701, =-172/568, =0/1170, 4-18=-986 5=-654/252, 15=-343/198	6) 7) (196, 8) 197, 9) 10 5/83,	200.0lb AC u from left end, Provide adeo This truss ha chord live loa * This truss h on the botton 3-06-00 tall b chord and an 0) One H2.5A S recommende UPLIFT at jt( only and doe	nit load placed on supported at two juate drainage to p s been designed find nonconcurrent w as been designed n chord in all areas y 2-00-00 wide wil y other members, impson Strong-Tie d to connect truss s) 21 and 13. This s not consider late	the bott points, { prevent v or a 10.0 vith any for a liv s where Il fit betw with BC e connec to bear connec rral force	om chord, 18- 5-0-0 apart. water ponding 0 psf bottom other live load e load of 20.0 a rectangle veen the botto DL = 10.0psf. ctors ng walls due t tion is for uplif es.	-3-8 l. ds. psf m to t		Comments.		SEA 0363	ERER ILBERT	Mannunnin

Job	Truss	Truss Type	Qty	Ply	DRB - 79 FARM AT NEILLS CREEK	
22040115	A03	Piggyback Base Supported Gable	1	1	Job Reference (optional)	151986850

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon May 16 22:38:40 ID:ACS0SGCfmETEfJzgbpcWMMzhrbI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:97.2

Plate Offsets (2	X, Y): [11:0-	3-0,0-3-12	2], [24:0-3-0,0-3-12],	[27:0-2-1,Edge], [43:	0-5-0,0-4-8	3], [47:0-4-0,0-1-4],	[56:0-5-0,0-	-4-8]						
<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	1-11-4 1.15 1.15 YES IRC2018/TPI2014	CSI TC BC WB Matrix	0.29 0.07 0.22 a-MR	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a -0.01	(loc) - - 35	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 587 lb	<b>GRIP</b> 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD	2x6 SP No. 2x6 SP No. 2x4 SP No. 2x4 SP No. 55-12,54-1: 47-20,46-2 Structural v 6-0-0 oc pu 2-0-0 oc pu Rigid ceilin bracina	.2 .3 .3 *Except 3,53-14,52 1,45-22,44 wood shea urlins, exc urlins (6-0- g directly	t* 2-15,51-16,50-17,49 4-23:2x4 SP No.2 athing directly applie cept end verticals, ar -0 max.): 11-24. applied or 10-0-0 oc	-19, d or id	Max Uplit	t $35=-212$ (LC 11) 37=-28 (LC 15), 39=-48 (LC 15), 41=-49 (LC 15), 43=-18 (LC 15), 46=-29 (LC 11), 49=-25 (LC 10), 51=-24 (LC 10), 53=-28 (LC 14), 57=-61 (LC 14), 59=-48 (LC 14), 61=-46 (LC 14), 63=-77 (LC 11),	, 36=-158 (I 38=-53 (LC 40=-49 (LC 42=-57 (LC 45=-23 (LC 47=-25 (LC 50=-25 (LC 52=-25 (LC 54=-26 (LC 58=-49 (LC 60=-51 (LC 64=-39 (LC	LC 15), 15), 15), 10), 11), 10), 11), 10), 11), 14), 14), 10), 10)	TOP CH	IORD	1-64= 3-4=-5 6-7=-5 9-10= 11-12 13-14 15-16 17-19 20-21 20-21 22-23 24-25 26-28 29-30	- -69/31, 1-2=-52/4 -66/82, 4-5=-69/11 95/167, 7-8=-113 -155/356, 10-11= =-150/384, 12-12 =-150/384, 16-17 =-150/384, 19-20 =-150/384, 21-22 =-150/384, 22-22 =-163/400, 25-22 =-132/270, 28-22 =-132/270, 28-27 =-132/270, 28-27 =-132/	I3, 2-3=-47/60 )8, 5-6=-68/11: /211, 8-9=-132 :-162/398, ≥-150/384, >=-150/384, >=-150/384, >=-150/384, ≥=-150/384, ≥=-150/384, ≥=-150/384, ≥=-132/224, 1=-127/220,	, 9, 2/273,
WEBS	(lb/size)	2-0-0 oc purlins (6-0-0 max.): 11-24. Rigid ceiling directly applied or 10-0-0 oc bracing. 1 Row at midpt 9-57, 10-56, 12-55, 13-54, 14-53, 15-52, 16-51, 17-50, 19-49, 20-47, 21-46, 22-45, 23-44, 25-43, 26-42 b/size) $35=58/55-11-0$ , $36=159/55-11-0$ , 37=155/55-11-0, $36=159/55-11-0$ , 31=155/55-11-0, $42=156/55-11-0$ , 41=155/55-11-0, $42=156/55-11-0$ , 43=154/55-11-0, $44=153/55-11-0$ , 45=155/55-11-0, $44=153/55-11-0$ , 50=155/55-11-0, $53=155/55-11-0$ , 52=155/55-11-0, $53=155/55-11-0$ , 54=154/55-11-0, $55=155/55-11-0$ , 56=154/55-11-0, $50=155/55-11-0$ , 50=155/55-11-0, $50=155/55-11-0$ , 50=155/55-11-0, 50=155				Max Grav       35=182 (LC 12), 36=277 (LC 24), 37=155 (LC 40), 38=166 (LC 24), 39=219 (LC 40), 40=236 (LC 46), 41=234 (LC 46), 42=238 (LC 46), 43=228 (LC 46), 42=238 (LC 46), 43=228 (LC 40), 44=189 (LC 53), 45=218 (LC 39), 46=218 (LC 39), 50=176 (LC 20), 51=189 (LC 21), 52=210 (LC 39), 53=218 (LC 39), 54=218 (LC 39), 55=181 (LC 53), 56=226 (LC 42), 57=237 (LC 42), 60=219 (LC 42), 61=186 (LC 43), 62=219 (LC 43), 63=222 (LC 43), 64=90 (LC 24)       Image: Comparison of the text of t							I=-150/223, i=-125/158	A Dawnen
	6 6 Max Horiz 6	60=155/55 62=154/55 64=63/55- 64=266 (L	5-11-0, 61=157/55-1 5-11-0, 63=159/55-1 11-0 C 11) C 11)	1-0, 1-0,						LI LE L			EER. K	(Inne)

Continued on page 2 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 design mer user 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 Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



May 17,2022

Job	Truss	Truss Type	Qty	Ply	DRB - 79 FARM AT NEILLS CREEK	
22040115	A03	Piggyback Base Supported Gable	1	1	Job Reference (optional)	151986850

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries. Inc. Mon May 16 22:38:40

ID:ACS0SGCfmETEfJzgbpcWMMzhrbl-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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

BOT CHORD	63-64=-223/163, 62-63=-223/163, 61-62=-223/163, 60-61=-223/163, 59-60=-223/163, 58-59=-223/163, 57-58=-223/163, 55-57=-223/163, 54-55=-223/163, 53-54=-223/163, 52-53=-223/163, 51-52=-223/163, 50-51=-223/163, 49-50=-223/163, 45-46=-223/163, 44-45=-223/163, 42-44=-223/163, 41-42=-223/163, 40-41=-223/163, 39-40=-223/163,
	38-39=-223/163, 37-38=-223/163,
	36-37=-223/163, 35-36=-223/163
WEBS	2-63=-182/80, 3-62=-181/60, 4-61=-147/74, 6-60=-180/75, 7-59=-198/71, 8-58=-195/99, 9-57=-199/143, 10-56=-187/63, 12-55=-141/9, 13-54=-179/81, 14-53=-179/90, 15-52=-172/54, 16-51=-151/48, 17-50=-138/48, 19-49=-151/48, 20-47=-172/55,
	21-46=-179/92, 22-45=-179/78,
	23-44=-150/21, 25-43=-189/72,
	26-42=-199/142, 28-41=-195/99,
	29-40=-197/72, 30-39=-180/72,
	31-38=-123/73, 32-37=-116/65,
	33-36=-176/123

### NOTES

- 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 Corner(3E) 5-7-0 to 11-5-4, Exterior(2N) 11-5-4 to 17-5-0, Corner(3R) 17-5-0 to 28-7-3, Exterior (2N) 28-7-3 to 38-2-5, Corner(3R) 38-2-5 to 49-5-4, Exterior(2N) 49-5-4 to 55-5-4, Corner(3E) 55-5-4 to 61-2-8 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.
- 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 design.
- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
   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.
- 12) \* 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.

13) N/A

- 14) 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.
- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	DRB - 79 FARM AT NEILLS CREEK	
22040115	B01	Piggyback Base	3	1	Job Reference (optional)	151986851

11-6-0

4-2-0

Scale = 1:89.9

Loading

TCLL (roof)

Snow (Pf)

LUMBER

TOP CHORD

BOT CHORD

TCDL

BCLL

BCDL

WEBS

OTHERS

SLIDER

BRACING

TOP CHORD

BOT CHORD

REACTIONS (lb/size)

WFBS

FORCES

TOP CHORD

BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc

5-22

22=2079/0-3-8

22=-94 (LC 11)

35), 22=2471 (LC 44)

1-2=-167/147, 2-3=-1193/319, 3-4=-700/294,

(Ib) - Maximum Compression/Maximum

4-29=-146/367, 5-29=-136/367,

5-30=-136/367, 7-30=-144/371,

10-12=-1575/392, 12-13=0/26,

17-18=-99/622, 14-16=-6/439,

7-9=-1448/518, 9-10=-1345/359,

20-21=-161/962, 18-20=-120/768

12=982/0-3-8, 21=1038/0-3-8,

12=-243 (LC 15), 21=-180 (LC 14),

12=1248 (LC 49), 21=1379 (LC

7-16, 2-21, 3-18, 4-17,

bracing, Except:

1 Row at midpt

Max Uplift

Max Grav

Tension

1-21=-217/100

12-14=-229/1258

8-6-8 oc bracing: 14-16.

Max Horiz 21=-306 (LC 12)

3x5 II

4x5=

31

### Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon May 16 22:38:41 Page: 1 ID:peT4yLyq7XKivZjUGqMG5\_zHvYw-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 51-9-8 6-5-13 12-6-14 19-5-15 26-10-4 33-4-2 39-1-4 44-10-6 50-11-0 6-5-13 6-1-1 6-11-2 7-4-5 6-5-14 5-9-2 5-9-2 6-0-10 0 - 10 - 84x6= 6x8= 4x5= 6x10= 6x8= 3 4 34 35 36375 6 7 2x4 I 712 4x6 4x5 🗸 8 9 2 D 3839 3233 40 <sub>2x4 ≠</sub> 10 41 4x5、 <sup>11</sup>12 130-ဗု 2729 20 44 42 43 19 1845 46 1716 47 15 14 4x5= 4x6= 4x5= 4x6= 5x8= 6x10 II 4x5= 6x10= 4x5= 27-1-0 26-10-4 39-1-4 8-11-1 17-8-7 26-7-8 37-0-0 50-11-0 8-11-1 8-9-5 8-11-1 0-2-12 9-11-0 2-1-4 11-9-12 0-2-12 Plate Offsets (X, Y): [7:0-3-12,0-3-0], [16:0-0-13,0-6-10] 2-0-0 CSI DEFL in l/defl L/d PLATES GRIP (psf) Spacing (loc) 20.0 Plate Grip DOL 1.15 TC 0.47 Vert(LL) -0.35 14-16 >826 240 MT20 244/190 20.0 Lumber DOL 1.15 BC 0.84 Vert(CT) -0.53 14-16 >541 180 10.0 Rep Stress Incr WB Horz(CT) YES 0.89 0.03 12 n/a n/a 0.0 Code IRC2018/TPI2014 Matrix-MSH Weight: 465 lb 10.0 FT = 20% WEBS 7-16=-951/58, 2-21=-1363/186, 9) \* This truss has been designed for a live load of 20.0psf 2x6 SP No.2 3-20=-54/549, 3-18=-333/73, 4-18=0/758, on the bottom chord in all areas where a rectangle 4-17=-1176/166, 2-20=-204/287, 3-06-00 tall by 2-00-00 wide will fit between the bottom 2x6 SP No.2 9-14=-644/245, 7-14=-191/1386, chord and any other members, with BCDL = 10.0psf. 2x4 SP No.2 \*Except\* 21-1,21-2,2-20,14-9,14-10:2x4 SP No.3 10-14=-263/164. 5-22=-1383/18. 10) Bearing at joint(s) 22 considers parallel to grain value 17-22=-99/1142, 22-29=-99/1142, using ANSI/TPI 1 angle to grain formula. Building 2x6 SP No.2 16-22=0/1045, 22-30=0/1045 Right 2x6 SP No.2 -- 1-6-0 designer should verify capacity of bearing surface. 11) One H2.5A Simpson Strong-Tie connectors NOTES recommended to connect truss to bearing walls due to Unbalanced roof live loads have been considered for Structural wood sheathing directly applied or 1) UPLIFT at jt(s) 21, 12, and 22. This connection is for this design. 5-3-2 oc purlins, except end verticals, and uplift only and does not consider lateral forces. Wind: ASCE 7-16; Vult=130mph (3-second gust) 2-0-0 oc purlins (6-0-0 max.): 3-7. 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) 5-1-12 to 10-2-14, Exterior

(2R) 10-2-14 to 24-6-7, Interior (1) 24-6-7 to 31-1-12,

51-8-6, Exterior(2E) 51-8-6 to 56-9-8 zone; cantilever

exposed;C-C for members and forces & MWFRS for

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;

Unbalanced snow loads have been considered for this

This truss has been designed for greater of min roof live

Provide adequate drainage to prevent water ponding.

All plates are 4x5 MT20 unless otherwise indicated.

This truss has been designed for a 10.0 psf bottom

chord live load nonconcurrent with any other live loads.

overhangs non-concurrent with other live loads.

load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on

TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15

Exterior(2R) 31-1-12 to 45-6-9, Interior (1) 45-6-9 to

left and right exposed ; end vertical left and right

reactions shown; Lumber DOL=1.60 plate grip

- 12) 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.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

DOL=1.60

design.

Cs=1.00; Ct=1.10

3)

4)

5)

6)

7)

8)



Job	Truss	Truss Type	Qty	Ply	DRB - 79 FARM AT NEILLS CREEK	
22040115	C01	Piggyback Base	3	1	Job Reference (optional)	151986852



Page: 1



	[	[	[					 			
Plate Offsets (X, Y):	[4:0-5-0.0-4-8].	[7:0-4-8.0-2-0].	[8:0-5-0.0-4-8]								
Scale = 1:78.4								0-	J-4		
				11-11-0		11	-10-4	0	5-4		
			1	11-11-0	1	23	3-9-4	24	-2-8		

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	3/TPI2014	CSI TC BC WB Matrix-MSH	0.62 0.79 0.72	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.26 -0.40 -0.05	(loc) 7-8 7-8 10	l/defl >999 >717 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 199 lb	<b>GRIP</b> 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS OTHERS SLIDER BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x6 SP No.2 2x6 SP No.2 2x4 SP No.2 *Excep 2x4 SP No.3 Left 2x6 SP No.2 1 Structural wood shea 5-8-0 oc purlins, exi 2-0-0 oc purlins, exi 2-0-0 oc purlins (6-0 Rigid ceiling directly bracing. 1 Row at midpt (lb/size) 2=1004/0- Max Horiz 2=396 (LC Max Uplift 2=-107 (L Max Grav 2=1246 (L	t* 4-8:2x4 SP No.3 1-6-0 athing directly applie zept end verticals, ar -0 max.): 5-6. applied or 10-0-0 oc 6-7, 5-7 -3-8, 10=950/0-3-8 2 13) C 14), 10=-140 (LC -C 40), 10=1116 (LC	3) 4) 5) d or nd 6) 5, 7) 8) 11) 9)	TCLL: ASCE Plate DOL=1 DOL=1.15); I Cs=1.00; Ct= Unbalanced design. This truss ha load of 12.0 p overhangs no Provide adeer This truss ha chord live loa * This truss ha on the bottom 3-06-00 tall b chord and ar Bearing at jo using ANSI/T	7-16; Pr=20.0 psf .15); Pf=20.0 psf s=1.0; Rough Cat .1.10 snow loads have b s been designed for bof or 1.00 times flip on-concurrent with uate drainage to p s been designed for do nonconcurrent v has been designed n chord in all areas by 2-00-00 wide will y other members, int(s) 10 considers Pl 1 angle to grain	(roof LL Lum DC B; Fully ween cor or greate at roof lc other liv orevent v or a 10.0 vith any for a liv s where l fit betw with BC parallel of ormula	: Lum DOL= IL=1.15 Plate Exp.; Ce=0.9 asidered for the er of min roof pad of 20.0 p re loads of 20.0 p re loads. vater ponding 0 psf bottom other live load e load of 20.0 a rectangle reen the bott DL = 10.0psi to grain valu a. Building	1.15 e) g; his f live sf on g. ds. Opsf om f. ie						
	(lb) - Maximum Com Tension	pression/Maximum	10)	designer sho ) One H2.5A S	uld verify capacity Simpson Strong-Tie	of beari	ng surface. ctors	40						
BOT CHORD WEBS NOTES 1) Unbalance this design 2) Wind: AS( Vasd=103	7-10=-90/1109, 6-100 2-7=-311/1366 5-8=-164/1246, 5-7= ed roof live loads have n. CE 7-16; Vult=130mph mph; TCDL=6.0psf; BK	-1011/183, 4-8=-597 been considered for (3-second gust) CDL=6.0psf; h=25ft;	7/313 11)	recommende UPLIFT at jt( only and doe ) This truss is International R802.10.2 ar ) Graphical pu or the orienta bottom chorc	a to connect truss s) 2 and 10. This c s not consider late designed in accorc Residential Code s nd referenced stan rlin representation tition of the purlin a l.	to bear connection ral force dance with sections dard AN does not long the	ng walls due on is for uplif is. th the 2018 R502.11.1 a ISI/TPI 1. of depict the s top and/or	to and size		Annu -	Parties	OR FESS	ROLIN	
<ol> <li>Unbalance this design</li> <li>Wind: ASC Vasd=103 Cat. II; Exp</li> </ol>	ed roof live loads have n. CE 7-16; Vult=130mph mph; TCDL=6.0psf; B( p B; Enclosed; MWFR;	been considered for (3-second gust) CDL=6.0psf; h=25ft; S (envelope) exterior	12) r <b>LO</b>	R802.10.2 ar ) Graphical pu or the orienta bottom chord	nd referenced stan rlin representation ation of the purlin a l. Standard	dard AN does no long the	ISI/TPI 1. of depict the s top and/or	size		Annu	i i i	SEA		

zone and C-C Exterior(2E) -0-10-8 to 2-6-5, Interior (1) 2-6-5 to 14-2-1, Exterior(2R) 14-2-1 to 20-11-11, Interior (1) 20-11-11 to 23-9-4 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



818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	DRB - 79 FARM AT NEILLS CREEK	
22040115	D01	Piggyback Base	7	1	Job Reference (optional)	151986853





11-9-12	23-11-0
11-9-12	12-1-4

Plate Offsets (X, Y):	[4:0-5-0,0-4-8],	[6:Edge,0-3-8]
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Scale = 1:74.2

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	CSI TC BC WB Matrix-MSH	0.73 0.83 0.73	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.30 -0.46 0.02	(loc) 7-9 7-9 7	l/defl >953 >618 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 186 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING TOP CHORD	2x6 SP No.2 2x6 SP No.2 2x4 SP No.2 *Excep Left 2x6 SP No.2 Structural wood she 5-8-5 oc purlins, ex 2-0-0 oc purlins (6-0	t* 4-9:2x4 SP No.3 1-6-0 athing directly applie cept end verticals, ar -0 max.): 5-6.	3) 4) d or 5) nd	TCLL: ASCE Plate DOL= DOL=1.15); Cs=1.00; Ct: Unbalanced design. This truss ha load of 12.0 overhangs n	E 7-16; Pr=20.0 ps 1.15); Pf=20.0 psf Is=1.0; Rough Cat =1.10 snow loads have I as been designed 1 psf or 1.00 times f on-concurrent with	f (roof LI (Lum DC B; Fully been con for great lat roof l n other li	L: Lum DOL= DL=1.15 Plate Exp.; Ce=0. Insidered for t er of min roo bad of 20.0 p ve loads.	=1.15 e .9; this of live osf on					
<ul> <li>Provide adequate drainage to prevent water ponding.</li> <li>Provide adequate drainage to prevent water ponding.</li> <li>Provide adequate drainage to prevent water ponding.</li> <li>This truss has been designed for a 10.0 psf bottom chord live load on nonconcurrent with any other live loads.</li> <li>This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle</li> <li>WEBS 1 Row at midpt 6-7, 5-7</li> <li>REACTIONS (lb/size) 2=1004/0-3-8, 7=950/ Mechanical Max Horiz 2=396 (LC 13)</li> <li>Max Uplift 2=-107 (LC 14), 7=-140 (LC 11)</li> <li>Max Grav 2=1248 (LC 40), 7=1118 (LC 24)</li> <li>Provide adequate drainage to prevent water ponding.</li> <li>This truss has been designed for a 10.0 psf bottom chord in all areas where a rectangle</li> <li>3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.</li> <li>Provide adequate drainage to prevent water ponding.</li> </ul>													
FORCES	(lb) - Maximum Com Tension	pression/Maximum	10) 10)	Provide med bearing plate	er(s) for truss to tr chanical connection e capable of withst	uss coni n (by oth anding 1	ers) of truss 40 lb uplift a	to at					
TOP CHORD	1-2=0/26, 2-5=-1503	8/241, 5-6=-161/171,	44	joint 7.	Dimpoon Otrong Ti								
BOT CHORD WEBS NOTES 1) Unbalanc this desig Vasd=103 Cat. II; Ex zone and 2-1-8 to 1 Exterior(2 right expo for memb Lumber D	2-9=-308/1364, 7-9= 5-9=-177/1284, 5-7= ed roof live loads have n. CE 7-16; Vult=130mph 3mph; TCDL=6.0psf; Br pB; Enclosed; MWFR: C-C Exterior(2E) -0-10 4-6-14, Exterior(2R) 14 (E) 20-9-4 to 23-9-4 zor sed; end vertical left a ers and forces & MWFI OL=1.60 plate grip DO	158/545 1023/170, 4-9=-598 been considered for (3-second gust) CDL=6.0psf; h=25ft; S (envelope) exterior -8 to 2-1-8, Interior (* -6-14 to 20-9-4, ne; cantilever left and nd right exposed; C-C RS for reactions show -1=1.60	//317 12/ 13/ 1) LO Vn;	UPLIFT at jt does not cor This truss is International R802.10.2 a Graphical pu or the orient bottom chor <b>AD CASE(S)</b>	ed to connect truss (s) 2. This connect nsider lateral force designed in accor l Residential Code nd referenced star urlin representation ation of the purlin a d. Standard	s to bear ion is fo s. dance w sections ndard AN n does n along the	ing walls due r uplift only a s R502.11.1 a SI/TPI 1. SI depict the e top and/or	e to ind and size		Continue.		SEA 0363	ROCT THE REPORT

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



G mmm May 17,2022

Page: 1

Job	Truss	Truss Type	Qty	Ply	DRB - 79 FARM AT NEILLS CREEK	
22040115	D02	Piggyback Base Supported Gable	1	1	Job Reference (optional)	151986854

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon May 16 22:38:42 ID:YRYnCOFh?hCFcyHRX82cVpzhpj9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:69.7

### Plate Offsets (X, Y): [12:0-2-8,0-2-1], [16:Edge,0-3-8], [17:Edge,0-3-8], [21:0-3-0,0-3-0]

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	1-11-4 1.15 1.15 YES IRC2018/TPI2014	CSI TC BC WB Matrix-MR	0.77 0.36 0.22	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a -0.01	(loc) - - 17	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 214 II	<b>GRIP</b> 244/190	%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 *Excep 2x4 SP No.3 *Excep 21-11,20-13,19-14, Structural wood she 6-0-0 oc purlins, ex 2-0-0 oc purlins (6-0	ot* 16-17:2x4 SP No.2 ot* 8-15:2x4 SP No.2 eathing directly applied cept end verticals, an )-0 max.): 12-16.	TOP CHORE	2-29=-266/116, 1-2 3-4=-287/185, 4-5= 6-7=-228/143, 7-8= 10-11=-189/155, 1 12-13=-152/180, 1 14-15=-152/180, 1 16-17=-137/150 28-29=-153/180, 2 26-27=-153/180, 2 24-25=-153/180, 2	=0/30, 2 -274/17 -214/13 I-12=-11 3-14=-11 5-16=-11 7-28=-11 7-28=-11 3-24=-11	2-3=-383/244 7, 5-6=-244/ 19, 8-10=-201 71/189, 52/180, 52/180, 53/180, 53/180, 53/180,	ı, 157, I/136,	5) Un de 6) Th loa ov 7) Pro 8) All 9) Ga 10) Tro bra	balanced sign. is truss h ad of 12.0 erhangs r ovide ade plates ar able requi uss to be aced agai	I snow as bee psf or non-co quate e 2x4 res co fully sh nst late	loads have been en designed for 1.00 times flat ncurrent with or drainage to pre MT20 unless of ntinuous bottom heathed from or eral movement	In considered greater of m roof load of her live load vent water   herwise ind herwise ind herwise ind herwise or s (i.e. diagon	ad for this hin roof live 20.0 psf on ds. ponding. licated. ring. ecurely al web).
BOT CHORD	Rigid ceiling directly bracing.	applied or 6-0-0 oc		22-23=-153/180, 20 19-20=-152/179, 18 17-18=-152/179	)-22=-1 3-19=-1	53/180, 52/179,		11) Ga 12) Th ch	able studs is truss h ord live lo	s space as bee ad nor	ed at 2-0-0 oc. en designed for nconcurrent wit	a 10.0 psf b h any other	oottom live loads.
REACTIONS	(lb/size) 17=58/23 19=155/2 23=156/2 25=155/2 25=155/2 27=158/2 29=133/2 May Hagi 20, 206 (	13-20, 14-19, 15-18 -11-0, 18=160/23-11- 3-11-0, 20=156/23-11 3-11-0, 22=153/23-11 3-11-0, 24=155/23-11 3-11-0, 26=154/23-11 3-11-0, 28=141/23-11 3-11-0	WEBS 0, 1-	8-23=-179/71, 7-24 5-26=-126/78, 4-27 10-22=-175/78, 11 13-20=-136/88, 14 15-18=-179/122 ted roof live loads have n. CE 7-16: Vult=130mp	=-146/7 =-119/4 21=-17 19=-18 e been o	2, 6-25=-122 9, 3-28=-178 9/59, 3/72, considered fo	2/71, 3/194, or	13) * T on 3-( ch	his truss the botto 06-00 tall ord and a	has be m cho by 2-0 iny oth	een designed for rd in all areas v 0-00 wide will f er members.	r a live load here a recta t between th	l of 20.0psf angle he bottom
	Max Holl2 29=396 ( Max Uplift 17=-20 (l 19=-33 (l 21=-34 (l 23=-47 (l 28=-276 Max Grav 17=80 (L 19=221 ( 21=217 ( 23=218 (l 25=160 ( 27=158 ( 29=372 (	LC 11), 18=-42 (LC 10 .C 11), 20=-59 (LC 11 .C 14), 22=-56 (LC 14 .C 14), 24=-50 (LC 14 .C 14), 26=-61 (LC 14 .C 14), 29=-164 (LC .C 14), 29=-164 (LC .C 35), 18=220 (LC 35 .LC 35), 20=177 (LC 3 .LC 36), 22=212 (LC 3 .LC 36), 22=212 (LC 3 .LC 36), 24=185 (LC 3 .LC 24), 26=168 (LC 4 LC 1), 28=275 (LC 40 .LC 11)	),         Vasd=10           ),         Cat. II; E           ),         Cat. II; E           ),         consent           ),         1-11-8 to           ),         (3E) 20-5           12)         exposed           12)         exposed           5),         3)         Truss de           6),         only. Fo         only. Fo           6),         see Stan         or consul           ),         4)         TCLL: AS	3mph; TCDL=6.0psf; E kp B; Enclosed; MWFf C-C Corner(3E) -0-1( 14-6-14, Corner(3R) - 4 to 23-9-4 zone; car ; end vertical left and r and forces & MWFRS JOL=1.60 plate grip D signed for wind loads studs exposed to wind dard Industry Gable E t qualified building des SCE 7-16; Pr=20.0 psf 1 - 115 <sup>5</sup> Pf=20.0 psf	SCDL=6 SS (env) I-8 to 1- I-4-6-14 tilever I ight exp 5 for rea DL=1.60 in the p d (norm and Deta igner as (roof LL	.0psf; h=25ft elope) exterior to 20-9-4, Cd eft and right bosed;C-C for ctions showr alate of the tri ala to the face ils as applica s per ANSI/T :: Lum DOL=	;; or r(2N) orner r ;; uss s), bble, PI 1. 1.15		A summer		SEA 036	AROL AL 322	A A A A A A A A A A A A A A A A A A A
FORCES	(lb) - Maximum Con Tension	npression/Maximum	DOL=1.1 Cs=1.00;	L=1.15); Pt=20.0 pst ( 5); Is=1.0; Rough Cat Ct=1.10	B; Fully	Exp.; Ce=0.9	9;				A. ( Ma	ay 17,202	22



Job	Truss	Truss Type	Qty	Ply	DRB - 79 FARM AT NEILLS CREEK	
22040115	D02	Piggyback Base Supported Gable	1	1	Job Reference (optional)	151986854

- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 164 lb uplift at joint 29, 20 lb uplift at joint 17, 47 lb uplift at joint 23, 50 lb uplift at joint 24, 46 lb uplift at joint 25, 61 lb uplift at joint 26, 276 lb uplift at joint 28, 56 lb uplift at joint 22, 34 lb uplift at joint 21, 59 lb uplift at joint 20, 33 lb uplift at joint 19 and 42 lb uplift at joint 18.
- 15) 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.
- 16) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon May 16 22:38:42 ID:YRYnCOFh?hCFcyHRX82cVpzhpj9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 2

![](_page_9_Picture_9.jpeg)

Job	Truss	Truss Type	Qty	Ply	DRB - 79 FARM AT NEILLS CREEK	
22040115	F01	Common	10	1	Job Reference (optional)	151986855

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon May 16 22:38:43 ID:IBEJZ2NJm5FWB48g3XbmPhzFo0j-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f \_\_\_\_

Page: 1

![](_page_10_Figure_5.jpeg)

Scale = 1:54.1

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

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	3/TPI2014	<b>CSI</b> TC BC WB Matrix-MSH	0.95 0.41 0.49	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.07 -0.21 0.00	(loc) 7 7 6	l/defl >999 >569 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 74 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS TOP CHORD BOT CHORD WEBS	2x4 SP No.2 2x6 SP No.2 2x4 SP No.3 *Exce Structural wood shu 1-7-8 oc purlins, e: Rigid ceiling directl bracing. 1 Row at midpt (lb/size) 6=491/0• Max Horiz 8=218 (L Max Grav 6=561 (L (lb) - Maximum Cor Tension 1-2=-311/150, 2-3= 4-5=-270/176, 8-9= 6-10=-372/133, 5-1 7-8=-42/262, 6-7=-4 9-11=-222/167, 10- 2-4=0/218	24/2012 24/2012 25/	4) 5) 2 6) 1 or 7) 8) 9) ,5, LO 42,	Unbalanced design. 200.0lb AC u from left end. This truss ha chord live loa * This truss h on the botton 3-06-00 tall b chord and an Bearing at jo using ANSI/T designer sho This truss is International R802.10.2 ar	snow loads have be nit load placed on t supported at two p s been designed for d nonconcurrent w as been designed in n chord in all areas y 2-00-00 wide will y other members. nt(s) 8, 6 considers PI 1 angle to grain uld verify capacity designed in accord Residential Code s ad referenced stand Standard	een cor the bott points, s or a 10.4 ith any for a liv where fit betw s paralle formula of bear ance w sections dard AN	sidered for the om chord, 5- 5-0-0 apart. ) psf bottom other live load e load of 20.1 a rectangle veen the botthe el to grain val a. Building ng surface. ith the 2018 R502.11.1 a ISI/TPI 1.	his 0-0 dds. Dpsf om lue und					
NOTES 1) Unbalance	ed roof live loads have	e been considered for									- ST	HTH CA	ROLI

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 Exterior(2E) 4-8-1 to 7-8-1, Exterior(2R) 7-8-1 to 13-6-13, Interior (1) 13-6-13 to 14-5-9 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

 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

# SEAL 036322 MGINEER May 17,2022

![](_page_10_Picture_12.jpeg)

Job	Truss	Truss Type	Qty	Ply	DRB - 79 FARM AT NEILLS CREEK	
22040115	F02	Common Supported Gable	1	1	Job Reference (optional)	151986856

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon May 16 22:38:43 ID:vUvBEtPlfCtvoeqwGlbd4czFnyo-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

GI mmm May 17,2022

818 Soundside Road Edenton, NC 27932

![](_page_11_Figure_4.jpeg)

10-1-0

Scale = 1:51

Plate Offsets (X, Y): [7:Edge,0-1-8]

								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	0.70	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)		20.0	Lumber DOL	1.15		BC	0.33	Vert(TL)	n/a	-	n/a	999		
TCDL		10.0	Rep Stress Incr	YES		WB	0.15	Horiz(TL)	0.00	7	n/a	n/a		
BCLL		0.0*	Code	IRC201	8/TPI2014	Matrix-MR								
BCDL		10.0											Weight: 79 lb	FT = 20%
LUMBER				2)	Wind: ASCE	7-16; Vult=130mpl	n (3-seo	cond gust)						
TOP CHORD	2x4 SP N	0.2			Vasd=103m	oh; TCDL=6.0psf; E	SCDL=6	.0psf; h=25ft;						
BOT CHORD	2x4 SP N	0.2			Cat. II; Exp E	; Enclosed; MWFF	RS (env	elope) exterio	or					
WEBS	2x4 SP N	0.3			zone and C-	C Corner(3E) 4-8-1	to 7-8-	1, Corner(3R	)					
OTHERS	2x4 SP N	0.3			7-8-1 to 11-5-9, Corner(3E) 11-5-9 to 14-5-9 zone;									
BRACING					cantilever left and right exposed ; end vertical left and									
TOP CHORD	Structura	l wood shea	athing directly applie	d or	right expose	d;C-C for members	and fo	rces & MWFF	RS					
	6-0-0 oc	ourlins. exc	cept end verticals.	u 0.	for reactions	shown; Lumber DC	DL=1.60	) plate grip						
BOT CHORD	Rigid ceil	ina directly	applied or 10-0-0 oc		DOL=1.60									
	bracing.	5,		3)	Truss desig	ned for wind loads i	in the p	lane of the tru	JSS					
REACTIONS	(lb/size)	7=64/10-1	-0 8=175/10-1-0		only. For stu	ids exposed to wind	d (norm	al to the face	),					
	(	9=147/10-	1-0. 10=165/10-1-0.		see Standard	Industry Gable Er	id Deta	lis as applica	DIE,					
		11=169/10	0-1-0. 12=64/10-1-0	4)		anned building des	igner a		-11. 445					
	Max Horiz	12=221 (L	.C 11)	4)	Diate DOI _1	15); PI=20.0 pSI		L: LUM DOL=	1.15					
	Max Uplift	7=-141 (L	C 11). 8=-178 (LC 10	)).	Plate DOL=1	.15), PI=20.0 pSI (I	B. Eully		; ).					
		9=-27 (LC	13), 10=-45 (LC 14)	,	$C_{S=1} 00^{\circ} C_{t=1}$	=1 10, Rough Cat	D, T ully	Lxp., 0e=0.3	<i>,</i>					
		11=-307 (	LC 11), 12=-225 (LC	10) 5)	Unbalanced	snow loads have h	een cor	sidered for th	nis					
	Max Grav	7=176 (LC	2 12), 8=321 (LC 24)	, 0,	design									
		9=170 (LC	23), 10=243 (LC 20	), 6)	Gable requir	es continuous botto	om choi	d bearing.						
		11=397 (L	.C 12), 12=299 (LC 1	3) 7)	7) Trust to be fully sheathed from one face or securely									
FORCES	(lb) - Max	imum Com	pression/Maximum	,	braced agair	st lateral movemer	nt (i.e. c	liagonal web)						U11.
	Tension			8)	Gable studs	spaced at 2-0-0 oc							White CA	Dalle
TOP CHORD	1-12=-16	0/119, 1-2=	-150/124, 2-3=-120/	190, 9)	This truss ha	s been designed fo	or a 10.	0 psf bottom					"TH UN	70/ 1/2
	3-4=-154	/256, 4-5=-'	152/252, 5-6=-128/19	91,	chord live loa	ad nonconcurrent w	ith any	other live loa	ds.			~	On the SS	10. 1. 7
	6-7=-116	/167		10	)) * This truss h	has been designed	for a liv	e load of 20.0	Opsf		6	X		
BOT CHORD	11-12=-1	08/90, 10-1	1=-108/90,		on the bottor	n chord in all areas	where	a rectangle			-		ion -	N
	9-10=-10	8/90, 8-9=-	108/90, 7-8=-108/90		3-06-00 tall b	y 2-00-00 wide will	fit betv	veen the botto	om		-			
WEBS	4-9=-159	/51, 3-10=-2	204/107, 2-11=-221/	174,	chord and ar	y other members.					=		SEA	L : =
	5-8=-223	/97									=	:	0262	22 : =
NOTES											1		0303	44 <u>;</u> ;
1) Unbalance	ed roof live	oads have	been considered for								-	9		1.5
this desig	n.										5	-	·	airs
												25	NGINI	EENAN
												11,	710	SEN N
													IL A G	ILD
													111.	in the second se

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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Job	Truss	Truss Type	Qty	Ply	DRB - 79 FARM AT NEILLS CREEK	
22040115	G01	Attic	3	1	Job Reference (optional)	151986857

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon May 16 22:38:43 ID:wN9MV2a7ngO0fSyKmTVeHIzhpg9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

![](_page_12_Figure_5.jpeg)

Scale = 1:84.4

Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDI	(psf) 20.0 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 IRC2018	8/TPI2014	<b>CSI</b> TC BC WB Matrix-MSH	0.73 0.96 0.79	DEFL Vert(LL) Vert(CT) Horz(CT) Attic	in -0.23 -0.38 0.06 -0.20	(loc) 18-19 18-19 10 12-26	l/defl >999 >624 n/a >795	L/d 240 180 n/a 360	PLATES MT20	<b>GRIP</b> 244/190	
LUMBER TOP CHORD BOT CHORD WEBS BRACING	2x6 SP No.2 2x4 SP No.2 *Except 2x4 SP No.3 *Except No.2, 3-4,7-8:2x6 SP Structural wood shee	t* 27-14:2x4 SP No.1 t* 3-25,8-11,4-7:2x4 P No.2 athing directly applied	W SP d or	EBS 2 8 7 1 1 1 2 2	25-26=0/858, 3-26= 12=0/1031, 8-10= -28=-539/493, 3-2 1-13=-1440/0, 24-2 3-14=0/1093, 22-2 2-23=-160/0, 14-11 6-17=-15/617, 20-2	0/1025 -1624/8 7=-1608 25=-148 4=0/11 6=-893/ 21=0/58	, 11-12=0/854 31, 4-28=-502 3/59, 59/0, 25, 14-15=-1 0, 21-22=-86 30, 17-18=-20	4, 2/547, 92/0, 57/0, 04/0,	10) Ceil 7-28 11) Bott choi 23-2 12) This	ing dead 3; Wall d om chor rd dead 24, 21-23 s truss is	d load ( dead lo rd live l load (5 3, 19-2	(5.0 psf) on men ad (5.0psf) on n oad (40.0 psf) on n oad (40.0 psf) a 5.0 psf) applied o 1, 18-19, 16-18, ned in accordan	FI = 20% iber(s). 3-4, 7-4 iember(s).3-26 nd additional b only to room. 24 15-16, 13-15, ce with the 201	8, 4-28, 3, 8-12 ottom 4-26, 12-13 18
BOT CHORD	6-0-0 oc purlins, exc 2-0-0 oc purlins (4-10 Rigid ceiling directly bracing. Except: 2-10-0 oc bracing: 10 3-9-0 oc bracing: 21- 3-11-0 oc bracing: 11 10-0-0 oc bracing: 24 1 Row at midpt	expt end verticals, an 0-14 max.): 5-6. applied or 10-0-0 oc 6-21 -24 3-16 4-26, 12-13 8-10, 3-27	id <b>N(</b> 1) 2)	1 DTES Unbalanced I this design. Wind: ASCE Vasd=103mp Cat. II; Exp B zone and C-C 2-3-11 to 16- captiliours left	9-20=-197/0, 6-28: roof live loads have 7-16; Vult=130mpf h; TCDL=6.0psf; B ; Enclosed; MWFR C Exterior(2E) 16 -24, Exterior(2E) 16 -24, Exterior(2E) 16	=-212/4 = been c n (3-sec CDL=6 S (enve 5 to 2-3 5-7-4 to	10, 5-28=-18 considered fo cond gust) .0psf; h=25ft; elope) exterio 3-11, Exterior; 19-9-4 zone;	;8/407 ; ; ; ; ; ; ; ;	Inter R80 13) Gra or th botte 14) Attic LOAD C	rnationa i2.10.2 a phical prine orient om chor c room c croom c	I Resid and refo urlin re ation c d. hecked Star	lential Code sec erenced standar presentation do of the purlin alon d for L/360 defle ndard	ions R502.11. d ANSI/TPI 1. is not depict th g the top and/o ction.	1 and le size lr
FORCES	1 Brace at Jt(s): 13, 24, 16, 21, 28 (lb/size) 10=1138/( Max Horiz 27=358 (L Max Grav 10=1500 ( (lb) - Maximum Com Tension	0-3-8, 27=1189/0-3-8 C 13) LC 46), 27=1572 (LC pression/Maximum	5 C 46) <sup>3)</sup>	right exposed for reactions DOL=1.60 TCLL: ASCE Plate DOL=1 DOL=1.15); I Cs=1.00; Ct=	t;C-C for members shown; Lumber DC 7-16; Pr=20.0 psf (15); Pf=20.0 psf (L s=1.0; Rough Cat F 1.10	, end v and for DL=1.60 (roof LL .um DO 3; Fully	ces & MWFR ) plate grip :: Lum DOL=' DL=1.15 Plate Exp.; Ce=0.9	1.15 9;				WITH CA	ROLIN	
BOT CHORD	1-2=0/52, 2-3=-314/2 4-5=-1003/346, 5-6= 7-8=-661/162, 8-9=-2 9-10=-358/238 25-27=-91/548, 22-2 20-22=0/3362, 17-20 10-11=-71/532, 24-2 23-24=-2165/0, 21-2 19-21=-3446/0, 18-1 16-18=-3446/0, 15-1 13-15=-2086/0, 12-1	2/3, 3-4=-660/148, -983/117, 6-7=-973/2 291/232, 2-27=-467/2 5=-5/1654, =0/3867, 11-17=0/3; 6=-95/227, 3=-2165/0, 9=-3446/0, 6=-2115/0, 3=-105/245	4) 339, 254, 5) 346, 6) 7) 8) 9)	Unbalanced s design. This truss hai load of 12.0 p overhangs no Provide adeq All plates are This truss ha chord live loa * This truss h on the bottom 3-06-00 tall b chord and an	snow loads have be s been designed fo osf or 1.00 times fla on-concurrent with uate drainage to pr 3x5 MT20 unless of s been designed fo d nonconcurrent w as been designed in n chord in all areas y 2-00-00 wide will y other members.	r greate troof lo other liv revent v otherwis r a 10.0 ith any for a live where fit betw	isidered for the er of min roof bad of 20.0 ps re loads. water ponding se indicated. 0 psf bottom other live loa e load of 20.0 a rectangle veen the bottom	his live sf on g. ds. Dpsf		Manine .		SEA 0363	L 22 EEER-K	Mannana and

May 17,2022

![](_page_12_Picture_10.jpeg)

Job	Truss	Truss Type	Qty	Ply	DRB - 79 FARM AT NEILLS CREEK	
22040115	G02	Attic	6	1	Job Reference (optional)	151986858

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon May 16 22:38:44 ID:PwMtYSc3X5EpzgXspX1pmRzhpep-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

![](_page_13_Figure_4.jpeg)

Scale = 1:82.3

L <b>oading</b> TCLL (roof) Snow (Pf) TCDL	(psf) 20.0 20.0 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES		CSI TC BC WB	0.73 0.96 0.79	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.23 -0.38 0.06	(loc) 17-18 17-18 9	l/defl >999 >623 n/a	L/d 240 180 n/a	PLATES MT20	<b>GRIP</b> 244/190	
BCLL BCDL	0.0* 10.0	Code	IRC201	8/TPI2014	Matrix-MSH		Attic	-0.20	11-25	>795	360	Weight: 237 lb	FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	2x6 SP No.2 2x4 SP No.2 *Excep 2x4 SP No.3 *Excep No.2, 2-3,6-7:2x6 SF Structural wood shea 6-0-0 oc purlins, exc	t* 26-13:2x4 SP No. t* 2-24,7-10,3-6:2x4 P No.2 athing directly applie cept end verticals, ar	W 1 SP d or nd	EBS 2 7 1 1 2	24-25=0/857, 2-25 -11=0/1031, 7-9= -27=-542/490, 2-2 0-12=-1440/0, 23 2-13=0/1093, 21- 21-22=-160/0, 13- 5-16=-10/618, 19 8-19=-197/0, 4-2	=0/1024 -1622/7 26=-1592 -24=-14 23=0/11 15=-894/ -20=0/58 7=-193/3	, 10-11=0/85- I, 3-27=-501/ 2/70, 59/0, 25, 13-14=-1! 0, 20-21=-86 36, 16-17=-20 99, 5-27=-20	4, 546, 92/0, 7/0, 04/0, 3/406	10) Bott cho 22-2 11) This Inte R80 12) Gra or th	tom choi rd dead 23, 20-23 s truss is rnationa 02.10.2 a phical prine orient	rd live l load (5 2, 18-2 design l Reside and refu urlin re tation d	load (40.0 psf) a 5.0 psf) applied c 20, 17-18, 15-17, ned in accordand dential Code sec erenced standar presentation doo of the purlin alon	nd additional built to room. 23 14-15, 12-14, 2e with the 201 tions R502.11. d ANSI/TPI 1. 2s not depict th g the top and/o	ottom 3-25, 11-12 8 1 and 1 and 1 size or
BOT CHORD	2-0-0 oc purlins (4-1 Rigid ceiling directly bracing. Except: 2-10-0 oc bracing: 1 3-9-0 oc bracing: 20 3-11-0 oc bracing: 1 0 0.0 oc bracing: 1	0-14 max.): 4-5. applied or 10-0-0 oc 5-20 2-15 2-15	N( 1) 2)	DTES Unbalanced I this design. Wind: ASCE Vasd=103mp Cat. II; Exp B zone and Co	roof live loads hav 7-16; Vult=130mp h; TCDL=6.0psf; ; Enclosed; MWF 2 Exterior(2E) 0-1	e been o h (3-sec BCDL=6 RS (enve	considered fo cond gust) .0psf; h=25ft; elope) exterio 3-12 Exterio	r Dr	13) Attio	om chor c room c CASE(S)	d. hecked Star	d for L/360 defle ndard	ction.	
WEBS JOINTS REACTIONS	1 Row at midpt 1 Brace at Jt(s): 12, 23, 15, 20, 27 (lb/size) 9=1139/0-	7-9, 2-26 -3-8, 26=1138/0-3-8		(2R) 3-3-12 to zone; cantile and right exp MWFRS for r	ver left and right e osed;C-C for men eactions shown; I	(2E) 16-7 xposed ( hbers an umber [	7-4 to 19-9-4 end vertical d forces & DOL=1.60 pla	left ite						
FORCES	Max Horiz 26=347 (L Max Grav 9=1501 (L (lb) - Maximum Com	.C 11) .C 45), 26=1506 (LC pression/Maximum	45) 3)	grip DOL=1.6 TCLL: ASCE Plate DOL=1 DOI =1 15): 1	60 7-16; Pr=20.0 psi .15); Pf=20.0 psf ( s=1 0: Rough Cat	(roof LL Lum DC B' Fully	LUM DOL=1 L=1.15 Plate	1.15 a.					Della	
TOP CHORD	Tension 1-2=-301/227, 2-3=-( 4-5=-982/118, 5-6=-( 7-8=-288/234, 1-26=	660/144, 3-4=-1003/3 972/342, 6-7=-662/14 -382/233 8-9352/	343, 4) 47, 241	Cs=1.00; Ct= Unbalanced : design.	1.10 snow loads have l	been cor	isidered for th	nis		(	H	ORTHO	O'	
BOT CHORD	24-26=-88/547, 21-26 24-26=-88/547, 21-2 19-21=0/3363, 16-15 9-10=-68/531, 23-25 22-23=-2166/0, 20-2 18-20=-3446/0, 17-1 15-17=-3446/0, 14-1 12-14=-2085/0, 11-1	-362/233, 6-9=-352/. 4=0/1655, =-98/223, =-98/223, 2=-2166/0, 8=-3446/0, 5=-2114/0, 2=-101/246	241 5) 6) 346, 7) 8) 9)	Provide adec All plates are This truss ha chord live loa * This truss h on the bottom 3-06-00 tall b chord and an Ceiling dead 6-27; Wall de	juate drainage to j 3x5 MT20 unless s been designed f id nonconcurrent as been designed n chord in all area y 2-00-00 wide wi y other members. load (5.0 psf) on ead load (5.0psf) of	orevent v otherwis or a 10.0 with any I for a liv s where Il fit betw nember( on memb	water ponding se indicated. 0) psf bottom other live loa e load of 20.0 a rectangle veen the botto s). 2-3, 6-7, 3 ber(s).2-25, 7	g. ds. Dpsf om 3-27, -11		<b>)</b> , , , , , , , , , , , , , , , , , , ,			L 22 EEER.K	Journa in the

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

![](_page_13_Picture_8.jpeg)

May 17,2022

Job	Truss	Truss Type	Qty	Ply	DRB - 79 FARM AT NEILLS CREEK	
22040115	G03	Attic Supported Gable	1	1	Job Reference (optional)	151986859

Scale = 1:79.7

![](_page_14_Figure_2.jpeg)

### Plate Offsets (X, Y): [2:0-2-14,0-2-0], [6:0-3-4,0-2-12], [10:0-3-4,0-2-12], [14:0-2-0,0-1-12], [2:0-3-0,0-3-0]

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	1-11-4 1.15 1.15 YES IRC20	4 018/TPI2014	<b>CSI</b> TC BC WB Matrix-MSH	0.49 0.14 0.14	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a -0.01	(lo	bc) I/d - 1 - 1 15 1	lefl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 237	<b>GRIP</b> 244/19 Ib FT = 2	90 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD	2x6 SP N 2x4 SP N 2x4 SP N 4-5,11-12 2x4 SP N Structura 6-0-0 oc   2-0-0 oc	o.2 o.2 o.3 *Excepi ::2x6 SP No o.3 I wood shea purlins, exc purlins, exc	t* 5-11:2x4 SP No.2, 5.2 athing directly applied cept end verticals, an -0 max 1: 6-10	- I I I I I I I I	TOP CHORD BOT CHORD	2-36=-393/274, 1-2 3-4=-169/237, 4-5= 6-7=-903/244, 7-8= 9-10=-903/244, 10- 11-12=-370/249, 12 13-14=-179/193, 14 35-36=-300/262, 3- 32-34=-188/143, 32 28-30=-188/143, 20 24-26=-188/143, 20	2=0/50, 2 366/24 903/24 -11=-10 2-13=-1 4-15=-3 4-35=-3 0-32=-1 6-28=-1 0-24=-1	2-3=-177/21 <sup>:</sup> 19, 5-6=-995, 14, 8-9=-903, 02/267, 76/230, 70/264 00/262, 88/143, 88/143, 88/148,	1, /267, /244,	2)	Wind: A Vasd=1 Cat. II; zone ar 2-3-11 t (2N) 8- Corner( right ex for men Lumber	ASCE 03m Exp I nd C- to 2- 10-8 (3E) pose nbers	7-16; ph; TC B; Enc C Cor 10-8, ( to 11- 16-7-4 d; en and f _=1.60	Vult=130mph CDL=6.0psf; B( closed; MWFR3 ner(3E) -0-8-5 Corner(3R) 2-1 4-0, Corner(3R) 2-1 4-0, Corner(3R) 2-1 4-0, Corner(3R) 2-1 to 19-9-4 zon d vertical left a forces & MWFI 0 plate grip DO	(3-second CDL=6.0ps S (envelop to 2-3-11, 0-8 to 8-10 () 11-4-0 tc e; cantileve nd right ex RS for reac PL=1.60	gust) sf; h=25ft; e) exterior Exterior(2N) >-8, Exterior o 16-7-4, er left and (posed;C-C ctions shown;
BOT CHORD WEBS JOINTS REACTIONS	Rigid ceil bracing. 6-0-0 oc l 1 Row at 1 Brace a 38, 39, 40 (lb/size)	ing directly Except: bracing: 18- midpt at Jt(s): 37, 0, 41 15=280/19 22=77/19- 22=77/19	applied or 10-0-0 oc -33 4-34, 12-17 9-11-0, 16=84/19-11- 9-11-0, 20=73/19-11- 11-0, 24=77/19-11-0 11-0, 22=72/19-11-0	.0, .0,	WEBS	17-20=-184/148, 10 15-16=-95/115, 31- 27-29=-4/11, 25-27 21-23=-4/11, 19-21 3-37=-97/79, 31-32 27-28=-115/0, 25-2 21-22=-119/0, 19-2 5-42=-169/773, 40- 39-40=-173/792, 1 41-43=-173/792, 1	6-17=-9 -33=-4/1 2=-4/11, =-8/5, 1 2=-98/0, 26=-116, 20=-100, -42=-17 9-41=-1 1-43=-1	5/115, 1, 29-31=-4, 23-25=-4/11 8-19=-8/5 29-30=-119, /0, 23-24=-1 /0, 16-38=-1 3/792, 73/792, 67/772,	/11, , /0, 16/0, 12/81,	3) 4) 5)	Truss of only. F see Sta or cons TCLL: A Plate D DOL=1 Cs=1.0 Unbalan design.	desig or stu indar ult qu ASCE OL= <sup>-1</sup> .15); 0; Ct nced	ned fo uds ex d Indu ualified 7-16 1.15); Is=1.0 =1.10 snow	or wind loads in sposed to wind stry Gable End d building desig ; Pr=20.0 psf (L Pf=20.0 psf (L) ; Rough Cat B loads have be	the plane (normal to d Details a gner as per roof LL: Lu um DOL=1 b; Fully Exp	of the truss ) the face), s applicable, r ANSI/TPI 1. Im DOL=1.15 I.15 Plate ).; Ce=0.9; ered for this
	Max Horiz Max Uplift Max Grav	20=78/19- 30=77/19- 34=206/19 36=307/19 36=329 (L 15=-280 (l 15=-29 (L 15=407 (L 17=-221 (L	11-0, 32=71/19-11-0 -11-0, 35=103/19-11-0 -11-0, 35=103/19-11 -11-0 C 13) LC 11), 16=-39 (LC 1 LC 10), 34=-366 (LC C 14), 36=-287 (LC 1 C 47), 16=218 (LC 5 C 50), 20-202 (LC 2 C 50), 20-202 (LC 2),	, ), 1-0, 11), 10) 50), 21),	NOTES 1) Unbalanceo this design.	33-34=-454/145, 4 17-18=-409/116, 12 7-40=-94/29, 9-41= 34-37=-340/389, 11 14-38=-286/331, 32 13-38=-136/88, 6-4 d roof live loads have	-33=-46: 2-18=-4 98/29, 7-38=-2: 5-37=-1- 12=-53/1 e been (	2/147, 17/116, 8-39 2-37=-290/3 38/277, 42/78, 58, 10-43=-1 considered fo	=-9/1, 331, 53/169 or			Contraction of the second seco	A	ORTH C ORTHES	ARO	
FORCES	(lb) - Max Tension	22=238 (L 26=234 (L 30=239 (L 34=425 (L 36=430 (L timum Com	.C 21), 24–229 (LC 2 .C 21), 28–230 (LC 2 .C 21), 32–194 (LC 2 .C 48), 35–194 (LC 5 .C 49) pression/Maximum	(1), (1), (1), (0),								THUR.		A.	SZZ NEER GILB	

May 17,2022

Page: 1

![](_page_14_Picture_6.jpeg)

Job	Truss	Truss Type	Qty	Ply	DRB - 79 FARM AT NEILLS CREEK	
22040115	G03	Attic Supported Gable	1	1	Job Reference (optional)	151986859

- 6) 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.
- 7) Provide adequate drainage to prevent water ponding.
- 8) All plates are 2x4 MT20 unless otherwise indicated.
- 9) Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 11) 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.
- 13) \* 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, with BCDL = 10.0psf.
- 14) Ceiling dead load (5.0 psf) on member(s). 4-5, 11-12, 5-42, 40-42, 39-40, 39-41, 41-43, 11-43; Wall dead load (5.0psf) on member(s).33-34, 4-33, 17-18, 12-18
- 15) N/A
- 16) 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.
- 17) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 18) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon May 16 22:38:45 ID:mTC1KUi0mrxofallau1\_zozhpVg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 2

![](_page_15_Picture_19.jpeg)

Job	Truss	Truss Type	Qty	Ply	DRB - 79 FARM AT NEILLS CREEK	
22040115	H01	Common	1	1	Job Reference (optional)	151986860

-0-10-8

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

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries. Inc. Mon May 16 22:38:46 ID:odQRt\_LKkd3VzU9QYSTuUUzhpTY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

![](_page_16_Figure_4.jpeg)

![](_page_16_Figure_5.jpeg)

![](_page_16_Figure_6.jpeg)

### Scale = 1:40.5

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 IRC2018	3/TPI2014	CSI TC BC WB Matrix-MSH	0.24 0.12 0.28	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.01 -0.01 0.00	(loc) 8-9 8-9 8	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 58 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 *Excep 2x4 SP No.3 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing.	t* 10-2,8-6:2x6 SP I athing directly applic cept end verticals. applied or 10-0-0 or	3) No.2 4) ed or c 5) 6)	Truss design only. For stu see Standarr or consult qu TCLL: ASCE Plate DOL=1 DOL=1.15); I Cs=1.00; Ct= Unbalanced design. This truss ha	ed for wind loads ds exposed to wind d Industry Gable E alified building des 7-16; Pr=20.0 psf (s=1.0; Rough Cat 1.10 snow loads have b s been designed f	in the pl nd (norm nd Deta signer as (roof LL (Lum DC B; Fully been cor or greate	ane of the tru al to the face ls as applica per ANSI/TI : Lum DOL= iL=1.15 Plate Exp.; Ce=0.9 asidered for the	uss ), ble, PI 1. 1.15 9; his					
EODOES	Max Horiz 10=-135 ( Max Uplift 8=-36 (LC Max Grav 8=462 (LC	LC 12) 15), 10=-36 (LC 14 22), 10=462 (LC 2	l) 7) 1) 2)	load of 12.0 overhangs no Truss to be f braced again	osf or 1.00 times fl on-concurrent with ully sheathed from ist lateral moveme	at roof lo other liv one fac nt (i.e. d	bad of 20.0 p ve loads. e or securely iagonal web)	sf on ,					
FURGES	Tension	pression/Maximum	8) 9)	Gable studs This truss ha	spaced at 2-0-0 oc s been designed f	c. or a 10.0	) psf bottom						
TOP CHORD	1-2=0/53, 2-3=-289/ 4-5=-204/303, 5-6=- 2-10=-428/319, 6-8= 9-10120/133, 8-9-	266, 3-4=-204/303, 289/266, 6-7=0/53, 428/319	10)	chord live loa * This truss h on the bottor 2 06 00 talk	ad nonconcurrent v las been designed n chord in all areas	with any I for a liv s where	other live loa e load of 20.0 a rectangle	ids. Opsf					

WEBS 4-9=-252/105, 2-11=-44/126, 9-11=-49/126, 9-12=-52/126, 6-12=-46/126, 3-11=-55/34, 5-12=-55/34

### NOTES

- Unbalanced roof live loads have been considered for 1) 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) -0-10-8 to 1-10-8, Exterior (2R) 1-10-8 to 5-10-8, Exterior(2E) 5-10-8 to 8-7-8 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
- 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 10 and 8. This connection is for uplift only and does not consider lateral forces.
- 12) 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

![](_page_16_Figure_17.jpeg)

![](_page_16_Picture_19.jpeg)

Job	Truss	Truss Type	Qty	Ply	DRB - 79 FARM AT NEILLS CREEK	
22040115	H02	Common	3	1	Job Reference (optional)	151986861

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries. Inc. Mon May 16 22:38:46 ID:1RaY1JHdbHmaiJXEZ7Mx6jzhpSL-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

![](_page_17_Figure_5.jpeg)

![](_page_17_Figure_6.jpeg)

### Scale = 1:40.5

bracing.

Tension

Max Horiz 7=-134 (LC 10)

1-7=-347/280, 3-5=-408/324

Unbalanced roof live loads have been considered for

Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Exterior (2R) 3-1-12 to 5-4-4, Exterior(2E) 5-4-4 to 8-4-4 zone;

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

6-7=-118/123, 5-6=-23/25

5=356/0-3-8, 7=279/0-3-8

(Ib) - Maximum Compression/Maximum

1-2=-262/274, 2-3=-285/276, 3-4=0/42,

2-6=-203/97, 1-6=-112/142, 3-6=-37/139

REACTIONS (lb/size)

FORCES

TOP CHORD

BOT CHORD

this design.

WEBS

1)

2)

3

4

NOTES

Loading TCLL (roof) Snow (Pf) TCDL BCLL	(psf) 20.0 20.0 10.0 0.0*	Spacing 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-MP	0.41 0.15 0.08	<b>DEFL</b> Vert(LL) Vert(CT) Horz(CT)	in 0.01 -0.01 0.00	(loc) 5-6 5-6 5	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	<b>GRIP</b> 244/190
BCDL	10.0											Weight: 49 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 *Excep	t* 5-3:2x6 SP No.2	5) 6)	This truss ha load of 12.0 p overhangs no This truss ha chord live loa	s been designed osf or 1.00 times on-concurrent wit s been designed id nonconcurrent	for great flat roof lo h other liv for a 10.0 with any	er of min roof bad of 20.0 ps ve loads. ) psf bottom other live loa	live sf on ds.					
TOP CHORD BOT CHORD	Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly	athing directly applied cept end verticals. applied or 10-0-0 oc	dor 7)	* This truss h on the botton 3-06-00 tall b	as been designe n chord in all area y 2-00-00 wide w	d for a liv as where vill fit betv	e load of 20.0 a rectangle veen the botto	Opsf om					

- 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) 7 and 5. This connection is for uplift only Max Uplift 5=-36 (LC 15), 7=-25 (LC 10) and does not consider lateral forces. Max Grav 5=436 (LC 22), 7=373 (LC 21) This truss is designed in accordance with the 2018 9)
  - International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. LOAD CASE(S) Standard

# NUMBTH CAS ORT Winninn<sup>11</sup> SEAL 036322 G minin

May 17,2022

![](_page_17_Picture_13.jpeg)

	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
	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.

Job	Truss	Truss Type	Qty	Ply	DRB - 79 FARM AT NEILLS CREEK	
22040115	H03	Common	1	1	Job Reference (optional)	151986862

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries. Inc. Mon May 16 22:38:46 ID:DqG8vucB?ulc3cgcC?sVEdzhpRv-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

![](_page_18_Figure_5.jpeg)

![](_page_18_Figure_6.jpeg)

### Scale = 1:40.5

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	0.37	Vert(LL)	0.01	5-6	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.01	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 48 lb	FT = 20%
LUMBER			5) This truss I	nas been designe	ed 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 load of 20.0 psf on									
BOT CHORD	2v4 SP No 2		overhands	non-concurrent w	vith other liv	ve loads.						

T R 2x4 SP No.3 \*Except\* 5-3:2x6 SP No.2 WEBS BRACING TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. REACTIONS (lb/size) 5=345/0-3-8, 7=268/0-3-8 Max Horiz 7=-137 (LC 12) Max Uplift 5=-35 (LC 15), 7=-29 (LC 10) Max Grav 5=411 (LC 22), 7=353 (LC 21) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=-239/267, 2-3=-264/259, 3-4=0/42, 1-7=-330/280, 3-5=-382/311 BOT CHORD 6-7=-117/124, 5-6=-23/25 WFBS 2-6=-193/87 1-6=-112/134 3-6=-37/129

### NOTES

- Unbalanced roof live loads have been considered for 1) 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) 0-5-0 to 3-7-4, Exterior(2R) 3-7-4 to 5-4-4, Exterior(2E) 5-4-4 to 8-4-4 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 design.

- 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) 7 and 5. 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

MILLIUM, ORT 01 11111111111 ATTIC CONTRACTOR SEAL 036322 G mmm May 17,2022

![](_page_18_Picture_21.jpeg)

Job	Truss	Truss Type	Qty	Ply	DRB - 79 FARM AT NEILLS CREEK	
22040115	H04	Common	2	1	Job Reference (optional)	151986863

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries. Inc. Mon May 16 22:38:47 ID:pX6RsgnziB3dlmII0x6npazhpRh-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

![](_page_19_Figure_5.jpeg)

![](_page_19_Figure_6.jpeg)

Scale = 1:36.7												
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	0.31	Vert(LL)	0.01	5-6	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.01	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 44 lb	FT = 20%

NOTES		
WEBS	2-5=-157/	70, 1-5=-80/117, 3-5=-80/117
BOT CHORD	5-6=-114/	109, 4-5=-29/32
	3-4=-296/	248
TOP CHORD	1-2=-213/	235, 2-3=-213/235, 1-6=-296/248,
FORCES	(lb) - Max Tension	imum Compression/Maximum
	Max Grav	4=321 (LC 21), 6=321 (LC 20)
	Max Uplift	4=-28 (LC 11), 6=-28 (LC 10)
	Max Horiz	6=-122 (LC 10)
REACTIONS	(lb/size)	4=255/0-3-8, 6=255/0-3-8
BOT CHORD	Rigid ceili bracing.	ng directly applied or 10-0-0 oc
	6-0-0 oc p	ourlins, except end verticals.
TOP CHORD	Structural	wood sheathing directly applied or
BRACING		
WEBS	2x4 SP No	0.3
BOT CHORD	2x4 SP No	0.2
TOP CHORD	2x4 SP No	0.2
LOWIDER		

Unbalanced roof live loads have been considered for

Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed; porch left

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

and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate

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;

Unbalanced snow loads have been considered for this

chord live load nonconcurrent with any other live loads.

This truss has been designed for a 10.0 psf bottom

1)

2)

3)

4)

5)

this design.

grip DOL=1.60

Cs=1.00: Ct=1.10

desian.

- \* This truss has been designed for a live load of 20.0psf 6) 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. 7) One H2.5A Simpson Strong-Tie connectors
- recommended to connect truss to bearing walls due to UPLIFT at it(s) 6 and 4. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 8) International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

![](_page_19_Picture_13.jpeg)

818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	DRB - 79 FARM AT NEILLS CREEK	
22040115	J01	Monopitch	6	1	Job Reference (optional)	151986864

-0-10-8

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

### Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon May 16 22:38:47 ID:H\_CEdq?GTjK3vX7m4jR0XNzhpRP-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

![](_page_20_Figure_4.jpeg)

![](_page_20_Figure_5.jpeg)

### Scale = 1:33.7

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	0.75	Vert(LL)	0.09	6-7	>714	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15		BC	0.35	Vert(CT)	0.08	6-7	>879	180		
TCDL	10.0	Rep Stress Incr	YES		WB	0.00	Horz(CT)	0.00	6	n/a	n/a		
BCLL	0.0*	Code	IRC201	8/TPI2014	Matrix-MR								
BCDL	10.0											Weight: 25 lb	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 *Excep Structural wood sher 6-0-0 oc purlins, exc Rigid ceiling directly bracing. (Ib/size) 6=236/0-3 Max Horiz 7=109 (LC	t* 7-2:2x6 SP No.2 athing directly applie cept end verticals. applied or 10-0-0 or -8, 7=292/0-3-8 5 13)	5 6 ed or 7 5	<ul> <li>This truss ha chord live loa</li> <li>* This truss h on the bottor</li> <li>3-06-00 tall</li> <li>chord and ar</li> <li>One H2.5A S</li> <li>recommende</li> <li>UPLIFT at jt( and does noi</li> <li>This truss is International</li> </ul>	s been designed f d nonconcurrent v as been designed n chord in all area: y 2-00-00 wide wi y other members. impson Strong-Ti d to connect truss s) 6 and 7. This cc consider lateral f designed in accord Residential Code	or a 10.0 with any I for a liv s where ill fit betw e connection onces. dance w sections	D psf bottom other live loa e load of 20.0 a rectangle veen the botto ctors ing walls due n is for uplift of ith the 2018 is FS02.11.1 a	ids. Opsf om to only					
	Max Uplift 6=-92 (LC Max Grav 6=322 (LC	10), 7=-116 (LC 10 21), 7=395 (LC 21)	) ) I	R802.10.2 a	nd referenced star	ndard AN	ISI/TPI 1.						
FORCES	(lb) - Maximum Com Tension	pression/Maximum	L	UAD CASE(S)	Stanuaru								
TOP CHORD	1-2=0/28, 2-3=-177/ 3-6=-239/164, 2-7=-3	130, 3-4=-8/0, 362/276											
BOT CHORD	6-7=-96/95, 5-6=0/0												
NOTES													
<ol> <li>Wind: ASC Vasd=103 Cat. II; Ex zone and 2-1-8 to 3: cantilever right expo members Lumber D</li> <li>TCLL: ASC</li> </ol>	CE 7-16; Vult=130mph mph; TCDL=6.0psf; B( p B; Enclosed; MWFR3 C-C Exterior(2E) -0-10 -0-0, Exterior(2E) 3-0-0 left and right exposed sed; porch left and righ and forces & MWFRS OL=1.60 plate grip DO CE 7-16; Pr=20.0 psf (i	(3-second gust) DL=6.0psf; h=25ft; S (envelope) exterio 8 to 2-1-8, Interior ( to 6-0-0 zone; end vertical left and t exposed;C-C for for reactions shown L=1.60 roof LL: Lum DOL=1	r 1) d .15							4	20	TH CA	ROLL

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

- 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 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.

SEAL 036322 MGINEER May 17,2022

![](_page_20_Picture_12.jpeg)

Job	Truss	Truss Type	Qty	Ply	DRB - 79 FARM AT NEILLS CREEK	
22040115	J02	Monopitch Girder	1	2	Job Reference (optional)	151986865

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon May 16 22:38:47 ID:pKhjZ7PzisUOMc86V9WINKzhpQu-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

![](_page_21_Figure_4.jpeg)

![](_page_21_Figure_5.jpeg)

Scale = 1:33.1

												1		<u> </u>
Loading		(psf)	Spacing	1-11-4		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)		20.0	Plate Grip DOL	1.15		тс	0.48	Vert(LL)	-0.03	5-6	>999	240	MT20	244/190
Snow (Pf)		20.0	Lumber DOL	1.15		BC	0.36	Vert(CT)	-0.04	5-6	>999	180		
TCDL		10.0	Rep Stress Incr	NO		WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCLL		0.0*	Code	IRC20	8/TPI2014	Matrix-MR								
BCDL		10.0											Weight: 53 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No. 2x6 SP No. 2x4 SP No. Structural w 5-8-12 oc p Rigid ceiling bracing. (Ib/size) 5 Max Horiz 6 Max Uplift 5 Max Grav 5	2 2 3 wood shea urlins, ex g directly 5=607/0-3 5=96 (LC 5=-109 (LC 5=-109 (LC 5=-109 (LC	athing directly applied xcept end verticals. applied or 10-0-0 oc 3-8, 6=533/0-3-8 32) C 8), 6=-87 (LC 8) C 8), 6=-87 (LC 8)	4 5 1 or 6 7 8	<ul> <li>TCLL: ASCE Plate DOL=1 DOL=1.15); I Cs=1.00; Ct= design.</li> <li>This truss ha chord live loa</li> <li>* This truss h on the botton 3-06-00 tall b chord and an One H2.5A S recommende</li> </ul>	7-16; Pr=20.0 psf (15); Pf=20.0 psf (15); Pf=20.0 psf (15); s=1.0; Rough Cat (1.10) snow loads have b s been designed for d nonconcurrent w as been designed in chord in all areas y 2-00-00 wide will y other members. impson Strong-Tie d to connect truss	(roof LL Lum DC B; Fully een cor or a 10.0 vith any for a liv s where l fit betv e conne to bear	:: Lum DOL= DL=1.15 Plate Exp.; Ce=0.1 asidered for t D psf bottom other live loa e load of 20.1 a rectangle veen the bott ctors ing walls due	1.15 9; his nds. 0psf om					
FORCES	(lb) - Maxim	num Com	pression/Maximum		UPLIFT at jt(	s) 5 and 6. This co	nnectio	n is for uplift	only					
	Tension		0 0 5 005/70		and does not	consider lateral fo	rces.							
TOP CHORD	1-2=-231/32	2, 2-3=-7/ 4	/0, 2-5=-225/73,	9	) I his truss is International	designed in accord	lance w	th the 2018	and					
BOT CHORD	5-6=-47/159	9. 4-5=0/0	)		R802.10.2 ar	d referenced stan	dard AN	ISI/TPI 1.						
NOTES		-,,		1	0) Use Simpsor	Strong-Tie LUS26	6 (4-100	Girder, 3-10	)d					
1) 2 ply truck	to be connec	tod togot	hor as follows:		Truss. Sinale	Plv Girder) or equ	ivalent	spaced at 2-0	0-0					
Top chord	ls connected v	vith 10d (	0 131"x3") nails as		oc max. start	ing at 2-0-0 from th	ne left e	nd to 4-0-0 to	)					
follows: 2>	4 - 1 row at 0	-9-0 oc.			connect truss	(es) to front face c	of bottor	n chord.						111
Bottom ch	ords connecte	ed with 10	)d (0.131"x3") nails a	s 1	1) Fill all nail ho	les where hanger i	is in cor	tact with lum	ber.				1111 CA	
follows: 2>	6 - 2 rows state	aggered a	at 0-9-0 oc.	Ĺ	OAD CASE(S)	Standard							ITH UA	ROUL
<ol> <li>All loads a except if n CASE(S) : provided in unless ofth</li> <li>Wind: ASC Vasd=103 Cat. II; Ex zone; can: and right e DOL=1.6C</li> </ol>	are considered noted as front section. Ply to o distribute or erwise indicat CE 7-16; Vult= mph; TCDL=( p B; Enclosed tilever left and exposed; porc o plate grip DC	d equally : (F) or bac ply conn ly loads i ted. =130mph 6.0psf; B0 ; MWFRS i right exp h left and DL=1.60	applied to all plies, ck (B) face in the LOA lections have been noted as (F) or (B), (3-second gust) CDL=6.0psf; h=25ft; S (envelope) exterior posed ; end vertical le I right exposed; Lumb	1 AD fft ver	) Dead + Snc Increase=1. Uniform Loz Vert: 1-2: Concentrate Vert: 7=-	w (balanced): Lurr 15 ads (lb/ft) 58, 2-3=-58, 4-6= ad Loads (lb) 354 (F), 8=-354 (F)	nber Inc =-19 )	rease=1.15,	Plate		M. and the		SEA 0363	L L L BER L BER L I L BER L I L

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

![](_page_21_Picture_9.jpeg)

May 17,2022

Job	Truss	Truss Type	Qty	Ply	DRB - 79 FARM AT NEILLS CREEK	
22040115	J03	Monopitch Supported Gable	1	1	Job Reference (optional)	151986866

### Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon May 16 22:38:47 ID:TeQF4DYUtY?hoS3PCgkZsszhpQi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

![](_page_22_Figure_3.jpeg)

![](_page_22_Figure_4.jpeg)

Scale = 1:33.6

-

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 IRC20	18/TPI2014	CSI TC BC WB Matrix-MR	0.21 0.09 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: 28 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD	2x4 SP N 2x4 SP N 2x4 SP N 2x4 SP N Structura 6-0-0 oc Rigid ceil bracing.	lo.2 lo.3 lo.3 l wood she purlins, exi ing directly	athing directly applie cept end verticals. applied or 10-0-0 oc	2 ed or 5	<ul> <li>Truss design only. For stu- see Standard or consult qu</li> <li>TCLL: ASCE Plate DOL=1 DOL=1.15); Cs=1.00; Ct=</li> <li>Unbalanced design.</li> <li>This truss ba</li> </ul>	ned for wind loads ads exposed to wind d Industry Gable E alified building de: 7-16; Pr=20.0 psf (15); Pf=20.0 psf (15); Alight Cat (1.10) snow loads have f s been designed f	in the p nd (norm End Deta signer as f (roof LL (Lum DC t B; Fully been cor	ane of the tri al to the face ils as applica per ANSI/T :: Lum DOL= iL=1.15 Plate Exp.; Ce=0. isidered for t	uss a), able, PI 1. :1.15 e 9; his f live					
REACTIONS	(Ib/size) Max Horiz Max Uplift Max Grav	6=3/5-8-1 8=157/5-8 10=138/5- 10=106 (L 6=-28 (LC 8=-24 (LC 10=-23 (L 6=14 (LC (LC 21), 9 (LC 21)	2, 7=69/5-8-12, 1-2, 9=142/5-8-12, -8-12 .C 11) : 10), 7=-22 (LC 11), : 10), 9=-56 (LC 14), C 10) 19), 7=96 (LC 21), 8 =197 (LC 21), 10=18	6 7 8=212 82 1	<ul> <li>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.</li> <li>6) All plates are 2x4 MT20 unless otherwise indicated.</li> <li>7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).</li> <li>8) Gable studs spaced at 2-0-0 oc.</li> <li>9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.</li> <li>10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle</li> </ul>									
FORCES	(lb) - Max Tension	kimum Com	pression/Maximum		3-06-00 tall t chord and ar	by 2-00-00 wide wi ny other members.	ill fit betv	veen the bott	om					100
TOP CHORD	2-10=-16 3-4=-51/2 5-7=-81/2	4/127, 1-2= 24, 4-5=-48, 20	:0/25, 2-3=-84/20, /44, 5-6=-24/13,	1	<ol> <li>Provide mec bearing plate 6.</li> </ol>	hanical connection capable of withst	n (by oth anding 2	ers) of truss 8 lb uplift at	to joint			-	TH CA	ROULI
BOT CHORD WEBS	9-10=-36 4-8=-174	/43, 8-9=-3 /149, 3-9=-	6/43, 7-8=-36/43 160/194								6	E Contraction of the second se	in Front	Then
<ul> <li>NOTES</li> <li>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 2-0-0, Exterior(2N) 2-0-0 to 6-0-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces &amp; MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60</li> </ul>										. 11111111		SEA 0363	L 22 ILBERTITI	

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![](_page_22_Picture_8.jpeg)

May 17,2022

Job	Truss	Truss Type	Qty	Ply	DRB - 79 FARM AT NEILLS CREEK	
22040115	L01	Common Supported Gable	5	1	Job Reference (optional)	151986867

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon May 16 22:38:48 ID:U5CzCuUcXWbZOtE48eu3mpzhpis-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

![](_page_23_Figure_4.jpeg)

L	5-11-8	11-11-0
Г	5-11-8	5-11-8

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

Scale = 1:42.4

Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDI	(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 IRC201	8/TPI2014	CSI TC BC WB Matrix-MSH	0.91 0.30 0.13	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.05 -0.05 0.00	(loc) 7-8 7-8 6	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 69 lb	<b>GRIP</b> 244/190 ET = 20%
LUMBER TOP CHORD BOT 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 cept end verticals. applied or 10-0-0 or	4) 5) ed or 6) c 7)	Unbalanced design. This truss ha load of 12.0 overhangs n This truss ha chord live loa * This truss h on the bottor	snow loads have be show loads have be psf or 1.00 times fla on-concurrent with s been designed fo ad nonconcurrent w has been designed f n chord in all areas	een cor r greate t roof le other liv r a 10.0 ith any for a liv where	asidered for the solution of min roof poad of 20.0 poge of 20.0 poge of 20.0 poge of 20.0 poge other live load of 20.0 a rectangle	his Flive sf on Ids. Dpsf					
REACTIONS	(lb/size) 6=526/0-3 Max Horiz 8=145 (LC Max Uplift 6=-56 (LC Max Grav 6=619 (LC	8-8, 8=526/0-3-8 2 13) 15), 8=-56 (LC 14) 2 22), 8=619 (LC 21)	8)	3-06-00 tall t chord and ar One H2.5A S recommende UPLIFT at jt(	by 2-00-00 wide will by other members. Simpson Strong-Tie ed to connect truss to s) 8 and 6. This cor	fit betw connection to bear	veen the bott ctors ing walls due n is for uplift	om to only					
FORCES TOP CHORD BOT CHORD WEBS	(lb) - Maximum Com Tension 2-8=-566/356, 1-2=0 3-4=-539/408, 4-5=0 7-8=-173/252, 6-7=- 3-7=-284/208, 4-7=-{	pression/Maximum /34, 2-3=-539/408, /34, 4-6=-566/356 115/252 92/249, 2-7=-88/249	9) LC	and does no This truss is International R802.10.2 an	t consider lateral for designed in accorda Residential Code s nd referenced stand Standard	ces. ance w ections lard AN	ith the 2018 R502.11.1 a ISI/TPI 1.	ind					
NOTES 1) Unbalance this design 2) Wind: ASC Vasd=103	ed roof live loads have n. CE 7-16; Vult=130mph mph: TCDL=6.0psf: B0	been considered for (3-second gust) CDL=6.0psf; h=25ft;	r								m	NITH CA	ROUT

2 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 2-11-8, Exterior(2R) 2-11-8 to 8-11-8, Interior (1) 8-11-8 to 9-9-8, Exterior(2E) 9-9-8 to 12-9-8 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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

![](_page_23_Picture_11.jpeg)

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Job	Truss	Truss Type	Qty	Ply	DRB - 79 FARM AT NEILLS CREEK	
22040115	L02	Common Structural Gable	1	1	Job Reference (optional)	151986868

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon May 16 22:38:48 ID:MsRT1GX6al6\_tUXrNTz?wfzhpio-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

![](_page_24_Figure_3.jpeg)

![](_page_24_Figure_4.jpeg)

Scale = 1:42.4	
Plate Offsets (X, Y):	[2:0-3-0,0-1-12], [8:0-3-0,0-1-12]

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-MSH	0.66 0.28 0.68	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.02 -0.05 0.00	(loc) 11-12 11-12 10	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 DTHERS BRACING TOP CHORD BOT CHORD JOINTS REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 Structural wood she: 6-0-0 oc purlins, exi Rigid ceiling directly bracing. 1 Brace at Jt(s): 13, 15 (lb/size) 10=510/0	athing directly applied cept end verticals. applied or 10-0-0 oc 3-8, 12=510/0-3-8	2) d or 3)	Wind: ASCE Vasd=103mp Cat. II; Exp E zone and C-( 1-11-8 to 2-1 (2N) 8-11-8 t cantilever lef right exposed for reactions DOL=1.60 Truss design only. For stu see Standard or consult qu	7-16; Vult=130mpl bh; TCDL=6.0psf; E 3; Enclosed; MWFF C Corner(3E) -0-10 1-8, Corner(3R) 2- o 9-9-8, Corner(3E t and right exposed d;C-C for members shown; Lumber DC hed for wind loads tds exposed to wind d Industry Gable Er alified building des	n (3-sec BCDL=6 RS (env -8 to 1- 11-8 to ) 9-9-8 I; end v and foo DL=1.60 in the p d (norm nd Deta igner as	ond gust) .0psf; h=25ft; elope) exterio 11-8, Exterior 8-11-8, Exter to 12-9-8 zon cretical left an cres & MWFR 0 plate grip ane of the tru al to the face is as applicat s per ANSI/TF	or (2N) ior e; d S S ss ), Dle, PI 1.	13) This Inte R80 LOAD (	s truss is rnationa )2.10.2 a CASE(S)	desig I Resic and refo Star	ned in accordanc lential Code sect erenced standard ndard	e with the 2 ons R502.1 I ANSI/TPI	018 11.1 and 1.
FORCES	Max Horiz 12=141 (L Max Uplift 10=-54 (L Max Grav 10=600 (L (Ib) - Maximum Com Tension	.C 13) C 15), 12=-54 (LC 14 .C 22), 12=600 (LC 2 pression/Maximum	4) (1) 5)	TCLL: ASCE Plate DOL=1 DOL=1.15); I Cs=1.00; Ct= Unbalanced	7-16; Pr=20.0 psf .15); Pf=20.0 psf (I ls=1.0; Rough Cat =1.10 snow loads have b	(roof LL Lum DC B; Fully een cor	Lum DOL=1 DL=1.15 Plate Exp.; Ce=0.9	1.15 ); nis						
TOP CHORD	1-2=0/33, 2-3=-495/ 4-5=-368/188, 5-6=- 7-8=-495/125, 8-9=0 8-10=-546/247	125, 3-4=-422/149, 368/188, 6-7=-422/14 /33, 2-12=-546/247,	49, 6)	design. This truss ha load of 12.0 p overhangs no	s been designed for psf or 1.00 times fla on-concurrent with	or great at roof lo other liv	er of min roof bad of 20.0 ps /e loads.	live sf on					Parti	
BOT CHORD WEBS	11-12=-130/225, 10- 5-11=-35/202, 2-14= 11-13=-26/246, 11-1 15-16=-25/242, 8-16 3-14=-23/22, 6-15=-	11=-56/199 -21/246, 13-14=-21/2 5=-30/246, =-25/246, 4-13=-79/4 79/45, 7-16=-23/22	7) 242, 8) 45, 9) 10)	All plates are Truss to be f braced again Gable studs	2x4 MT20 unless ully sheathed from ist lateral movement spaced at 2-0-0 oc is been designed for	otherwi one fac nt (i.e. d or a 10.0	se indicated. e or securely iagonal web). ) psf bottom			4		RAN S		
NOTES I) Unbalance this design	ed roof live loads have n.	been considered for	11) 12)	chord live loa * This truss h on the bottom 3-06-00 tall b chord and an ) One H2.5A S recommende UPLIFT at jt(	ad nonconcurrent w has been designed in chord in all areas by 2-00-00 wide will by other members. Simpson Strong-Tie ed to connect truss s) 12 and 10. This	vith any for a liv where fit betv connecto bear connecto	other live load e load of 20.0 a rectangle veen the botto ctors ng walls due tion is for upli	ds. )psf om to ft		THE DESCRIPTION OF THE DESCRIPTO	A A A A A A A A A A A A A A A A A A A	SEA 0363	L 22 E.F.R.	

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

only and does not consider lateral forces.

![](_page_24_Picture_9.jpeg)

G

11111111 May 17,2022

Job	Truss	Truss Type	Qty	Ply	DRB - 79 FARM AT NEILLS CREEK	
22040115	PB1	Piggyback	10	1	Job Reference (optional)	151986869

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon May 16 22:38:48 ID:wqE9XHIrfY1kw2gm2JUHo?zHvhW-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

B Page: 1

![](_page_25_Figure_4.jpeg)

![](_page_25_Picture_5.jpeg)

Job	Truss	Truss Type	Qty	Ply	DRB - 79 FARM AT NEILLS CREEK	
22040115	PB2	Piggyback	1	1	Job Reference (optional)	151986870

9-6-8

9-6-8

Carter Components (Sanford), Sanford, NC - 27332

5-11-1

0-4-5

(psf)

20.0

20.0

10.0

0.0

19=149 (LC 27), 20=245 (LC 21),

21=219 (LC 21), 22=164 (LC 24),

23=153 (LC 24), 24=102 (LC 25),

27=91 (LC 22)

1-2=0/16, 2-3=-114/100, 3-4=-96/86,

4-5=-87/74, 5-6=-76/99, 6-7=-82/148

7-8=-82/148, 8-9=-64/97, 9-10=-49/45,

10-11=-57/34, 11-12=-79/48, 12-13=0/16

(lb) - Maximum Compression/Maximum

10.0

2x4 SP No.2

2x4 SP No.2 2x4 SP No.3

6-0-0 oc purlins.

bracing.

Tension

6-0-11

Scale = 1:44.6

Loading

TCLL (roof)

Snow (Pf)

LUMBER

OTHERS

BRACING

TOP CHORD

BOT CHORD

TOP CHORD

BOT CHORD

FORCES

TOP CHORD

REACTIONS (lb/size)

TCDL

BCLL

BCDL

-0-9-12

d-9-12

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon May 16 22:38:48 ID:OvaXnpHesqpQkCbmd7MgygzHvb5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

4x5 = 7

19-0-15

9-6-8

6 8 12 7 [ 5 9 32 33 4 10 31 34 3 11 23 22 21 20 19 1817 16 15 14 3x5 =3x5 =3x5 =19-0-15 1-11-4 CSI DEFL L/d PLATES Spacing in (loc) l/defl Plate Grip DOL 1.15 TC 0.07 Vert(LL) n/a 999 MT20 n/a BC Lumber DOL 1 15 0.03 Vert(CT) n/a n/a 999 Rep Stress Incr WB 80.0 Horz(CT) 0.00 12 YES n/a n/a Code IRC2018/TPI2014 Matrix-MSH Weight: 101 lb FT = 20%2-23=-42/97, 22-23=-42/97, 21-22=-42/97, BOT CHORD 11) \* This truss has been designed for a live load of 20.0psf 20-21=-42/97, 19-20=-42/97, 18-19=-42/97, on the bottom chord in all areas where a rectangle 16-18=-42/97, 15-16=-42/97, 14-15=-42/97, 3-06-00 tall by 2-00-00 wide will fit between the bottom 12-14=-42/97 chord and any other members. WEBS 7-19=-110/5, 6-20=-206/79, 5-21=-180/80, 12) N/A 4-22=-126/83, 3-23=-110/81, 8-18=-206/79, Structural wood sheathing directly applied or 9-16=-180/80, 10-15=-126/83, 11-14=-110/81 NOTES Rigid ceiling directly applied or 10-0-0 oc Unbalanced roof live loads have been considered for 1) this design 2=90/19-0-15, 12=90/19-0-15, Wind: ASCE 7-16; Vult=130mph (3-second gust) 14=144/19-0-15, 15=158/19-0-15, 2) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; 16=153/19-0-15, 18=161/19-0-15, Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior 19=128/19-0-15, 20=161/19-0-15, zone and C-C Corner(3E) 0-3-11 to 3-3-11, Exterior(2N) 21=153/19-0-15, 22=158/19-0-15, consult qualified building designer. 3-3-11 to 7-4-10, Corner(3R) 7-4-10 to 13-4-10, Exterior 23=144/19-0-15, 24=90/19-0-15, (2N) 13-4-10 to 17-5-10, Corner(3E) 17-5-10 to 20-5-10 LOAD CASE(S) Standard 27=90/19-0-15 zone; cantilever left and right exposed ; end vertical left Max Horiz 2=-134 (LC 12), 24=-134 (LC 12) and right exposed;C-C for members and forces & Max Uplift 2=-24 (LC 10), 14=-47 (LC 15), MWFRS for reactions shown; Lumber DOL=1.60 plate 15=-49 (LC 15), 16=-50 (LC 15), grip DOL=1.60 18=-50 (LC 15), 20=-51 (LC 14), 3) Truss designed for wind loads in the plane of the truss 21=-49 (LC 14), 22=-49 (LC 14), only. For studs exposed to wind (normal to the face), 23=-49 (LC 14), 24=-24 (LC 10) Max Grav 2=102 (LC 25), 12=91 (LC 22), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1. 14=151 (LC 25), 15=164 (LC 25) 16=219 (LC 22), 18=245 (LC 22),

- 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.
- 6) 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 9) Gable studs spaced at 2-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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.

Page: 1

19-10-11

0-9-12

12

GRIP

244/190

13

14) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or

![](_page_26_Figure_13.jpeg)

![](_page_26_Picture_15.jpeg)

Job	Truss	Truss Type	Qty	Ply	DRB - 79 FARM AT NEILLS CREEK	
22040115	PB3	Piggyback	10	1	Job Reference (optional)	151986871

### Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon May 16 22:38:49 ID:qq1Y3sqWm3L5X2FMPVr21uzFo5I-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

![](_page_27_Figure_4.jpeg)

5-6-0

Scale = 1:30.9

Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 20.0 10.0 0.0 10.0	Spacing Plate Grip DO Lumber DOL Rep Stress Inc Code	2-0-0 L 1.15 1.15 cr YES IRC2	018/TPI2014	CSI TC BC WB Matrix-MP	0.32 0.12 0.08	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 5	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 24 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 Structural wood s 6-0-0 oc purlins, Rigid ceiling direc bracing. (lb/size) 2=23/5 6=312/ Max Horiz 2=118 Max Uplift 2=-28 ( 6=-100 Max Grav 2=53 (I 6=461 (lb) - Maximum C Tension	neathing directly a except end vertical tly applied or 10-0- 5-6-0, 7=23/5-6-0 LC 13), 7=118 (LC LC 10), 5=-23 (LC (LC 14), 7=-28 (LC C 11), 5=185 (LC LC 21), 7=53 (LC ompression/Maxim	pplied or ls. -0 oc 14), 210, 21), 11) um	<ol> <li>TCLL: ASCE Plate DOL=1 DOL=1.15); I. Cs=1.00; Ct=</li> <li>Unbalanced design.</li> <li>This truss ha load of 12.0 ( overhangs nr</li> <li>Gable require</li> <li>Gable require</li> <li>Gable studs:</li> <li>This truss ha chord live loa</li> <li>This truss ha chord and an</li> <li>N/A</li> </ol>	7-16; Pr=20.0 psf (15); Pf=20.0 psf (15); s=1.0; Rough Cat (1.10) snow loads have b s been designed for some concurrent with se continuous botto spaced at 4-0-0 oc s been designed for d nonconcurrent with as been designed for a chord in all areasis y 2-00-00 wide will y other members.	(roof LL Lum DC B; Fully eeen cor or great at roof k other liv or a 10.0 vith any for a 110.0 s where I fit betw	:: Lum DOL= DL=1.15 Plate Exp.; Ce=0.9 asidered for the er of min roof pad of 20.0 ps re loads. d bearing. 0 psf bottom other live load a rectangle reen the bottom	1.15 e); live sf on ds. Dpsf					
TOP CHORD BOT CHORD WEBS <b>NOTES</b> 1) Wind: ASC Vasd=103 Cat. II; Exy zone and 0 exposed ; members a Lumber D0 2) Truss des only. For 3 see Stand or consult	1-2=0/16, 2-3=-1 4-5=-152/43 2-6=-54/59, 5-6=- 3-6=-420/224 CE 7-16; Vult=130m mph; TCDL=6.0psf; p B; Enclosed; MWIF C-C Exterior(2E) zo end vertical left and and forces & MWFF OL=1.60 plate grip I signed for wind load studs exposed to w ard Industry Gable qualified building de	3/100, 3-4=-114/5 54/59 bh (3-second gust) BCDL=6.0psf; h=2 RS (envelope) ext ne; cantilever left a right exposed;C-C S for reactions sho DOL=1.60 s in the plane of the nd (normal to the f End Details as app signer as per ANS	8, 25ft; ierior ind right 5 for own; e truss ace), licable, il/TPI 1.	<ul> <li>11) This truss is International R802.10.2 ar</li> <li>12) See Standar Detail for Cor consult qualit</li> <li>LOAD CASE(S)</li> </ul>	designed in accord Residential Code s da referenced stand d Industry Piggyba nection to base tri ied building design Standard	lance w sections dard AN ck Trus: uss as a her.	ith the 2018 R502.11.1 a ISI/TPI 1. s Connection applicable, or	ind		Manufallow.	The second secon	SEA 0363	L 22 BEERERE

![](_page_27_Picture_9.jpeg)

GILB minin May 17,2022

Job	Truss	Truss Type	Qty	Ply	DRB - 79 FARM AT NEILLS CREEK	
22040115	PB4	Piggyback	1	1	Job Reference (optional)	151986872

### Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon May 16 22:38:49 ID:fODfWkHonK1FXCerm?vaHozFo\_G-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

![](_page_28_Figure_3.jpeg)

![](_page_28_Figure_4.jpeg)

5-6-0

o(a e = 1.00.2)
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				_										
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 IRC20	18/TPI2014	CSI TC BC WB Matrix-MP	0.15 0.03 0.04	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: 27 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP N 2x4 SP N 2x4 SP N 2x4 SP N Structural 6-0-0 oc p Rigid ceil bracing. (lb/size)	0.2 0.3 0.3 I wood she ourlins, ex ing directly 2=81/5-6-	athing directly applie cept end verticals. applied or 10-0-0 oc 0, 6=56/5-6-0,	d or	<ul> <li>3) TCLL: ASCE Plate DOL=1 DOL=1.15); Cs=1.00; Ct=</li> <li>4) Unbalanced design.</li> <li>5) This truss ha load of 12.0 overhangs n</li> <li>6) Gable requir</li> <li>7) Gable studs</li> <li>7) This trus ha</li> </ul>	7-16; Pr=20.0 ps .15); Pf=20.0 ps is=1.0; Rough Cai =1.10 snow loads have s been designed osf or 1.00 times f on-concurrent with es continuous bot spaced at 2-0-0 o	if (roof LI (Lum DC t B; Fully been col for great flat roof I h other li tom chol ic. for a 10	:: Lum DOL= DL=1.15 Plate Exp.; Ce=0.9 nsidered for the er of min roof bad of 20.0 pr ve loads. rd bearing.	1.15 9; his flive sf on					
	Max Horiz Max Uplift Max Grav	7=170/5-6 9=81/5-6- 2=114 (LC 2=-7 (LC (LC 14), 8 10) 2=89 (LC (LC 21), 8 25)	S-0, 8=140/5-6-0, 0 C 13), 9=114 (LC 13) 10), 6=-16 (LC 11), 7 3=-46 (LC 14), 9=-7 ( 25), 6=83 (LC 21), 7 3=207 (LC 21), 9=89	<ul> <li>a. (LC</li> <li>a. (LC</li> <li>b. (a) (a) (b) (a) (b) (a) (b) (b) (b) (b) (b) (b) (b) (b) (b) (b</li></ul>										
FORCES	(lb) - Max Tension	imum Com	pression/Maximum		11) This truss is	designed in accor	dance w	ith the 2018	and					
TOP CHORD	1-2=0/16, 4-5=-65/4	2-3=-91/6	4, 3-4=-74/57, /24		R802.10.2 a	nd referenced star	ndard Al	ISI/TPI 1.					WH CA	ROUL
BOT CHORD WEBS	2-8=-53/5 4-7=-209/	7, 7-8=-53 108, 3-8=-	/57, 6-7=-53/57 165/83		Detail for Co consult quali	nnection to base t fied building desig	truss as a gner.	applicable, or				A	ORIFESS	Nie Alexandre
1) Wind: AS Vasd=103	CE 7-16; Vu 3mph: TCDL	lt=130mph =6.0psf: B0	(3-second gust) CDL=6.0psf: h=25ft:		LUAD CASE(S)	Standard					1111		SEA	
Cat. II; Ex zone and exposed ; members Lumber D 2) Truss de only. For see Stanc or consult	p B; Enclose C-C Exterio end vertical and forces a OL=1.60 pla signed for w studs expose dard Industry qualified bu	ed; MWFR r(2E) zone; l left and rig MWFRS ate grip DO ind loads ir sed to wind c Gable En- ilding desig	S (envelope) exterior ; cantilever left and r ght exposed;C-C for for reactions shown; vL=1.60 n the plane of the tru (normal to the face) d Details as applicat gner as per ANSI/TP	r ight ss , ile, il 1.							11111			EER.HT

May 17,2022

![](_page_28_Picture_8.jpeg)

Job	Truss	Truss Type	Qty	Ply	DRB - 79 FARM AT NEILLS CREEK	
22040115	PB5	Piggyback	9	1	Job Reference (optional)	151986873

### Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon May 16 22:38:49 ID:\_\_1c4MYtF38IP9oyf2SACtzhpgB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

![](_page_29_Figure_3.jpeg)

Page: 1

![](_page_29_Figure_5.jpeg)

Scale = 1:30.6

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

		,												
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	3/TPI2014	CSI TC BC WB Matrix-MP	0.27 0.27 0.02	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: 31 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 6-0-0 oc purlins. Rigid ceiling directly bracing. (Ib/size) 2=205/7- 6=212/7	eathing directly applie y applied or 10-0-0 oc 2-1, 4=205/7-2-1, 2-1, 7=205/7-2-1	3) 4) c 5) 6)	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	ned for wind loads ids exposed to wind d Industry Gable E ialified building des 7-16; Pr=20.0 psf .15); Pf=20.0 psf (ls=1.0; Rough Cat =1.10 snow loads have b is been designed f	in the p id (norm nd Deta signer a: (roof LL (Lum DC B; Fully peen cor or great	ane of the tru al to the face is as applical per ANSI/Tf .: Lum DOL= L=1.15 Plate Exp.; Ce=0.9 asidered for the	uss ), ble, ⊇I 1. 1.15 9; his live						
	Max Horiz 2=-78 (Li Max Uplift 2=-37 (Li Max Grav 2=300 (Li 6=228 (Li 11=300 (	12-1, 7=200/7-221,       load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.         C 12), 7=-78 (LC 12)       7)       Gable requires continuous bottom chord bearing.         C 14), 4=-46 (LC 15),       8)       Gable studs spaced at 4-0-0 oc.         C 21), 4=300 (LC 22),       9)       This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.         LC 21), 7=300 (LC 21),       10)       * This truss has been designed for a live load of 20.0psf or the bottom chord in all areas where a rectangle												
FORCES	(lb) - Maximum Cor Tension	npression/Maximum		3-06-00 tall t chord and ar	by 2-00-00 wide winy other members.	ll fit betv	veen the botto	om						
FOP CHORD	1-2=0/26, 2-3=-206 4-5=0/26 2-6=-34/82, 4-6=-24 3-6=-80/0	/113, 3-4=-206/113, 4/82	11)	) N/A								TH CA	ROUT	
NOTES NOTES 1) Unbalanc this desig 2) Wind: ASI Vasd=103 Cat II: Ex	3-5=-50/0 ed roof live loads have n. CE 7-16; Vult=130mpl 3mph; TCDL=6.0psf; E p B: Enclosed: MWFF	e been considered for h (3-second gust) 3CDL=6.0psf; h=25ft; 3S (envelope) exterio	12) 13) r	) This truss is International R802.10.2 at ) See Standar Detail for Co consult quali	designed in accord Residential Code nd referenced star d Industry Piggyba nnection to base tr fied building desig	dance w sections idard AN ack Trus russ as a ner.	ith the 2018 R502.11.1 a ISI/TPI 1. s Connection applicable, or	Ind		Comment	a	SEA 0363	L 22	Marin

zone and C-C Exterior(2E) 0-2-14 to 3-2-14, Exterior (2R) 3-2-14 to 5-2-10, Exterior(2E) 5-2-10 to 8-2-10 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

LOAD CASE(S) Standard

![](_page_29_Figure_12.jpeg)

818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	DRB - 79 FARM AT NEILLS CREEK	
22040115	PB6	Piggyback	1	1	Job Reference (optional)	151986874

### Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon May 16 22:38:49 ID:yJrm4RdFA?Afxfl8EdwakXzhpVm-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

![](_page_30_Figure_3.jpeg)

![](_page_30_Figure_4.jpeg)

Scale = 1:30.6

Plate Offsets (X, Y): [2:0-2-1,0-1-0], [6:0-2-1,0-1-0]

<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	1-11-4 1.15 1.15 YES IRC2018	8/TPI2014	CSI TC BC WB Matrix-MP	0.08 0.03 0.05	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: 35 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 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing. (lb/size) 2=85/7-2-1, 6=85/7-2-1, 8=165/7-2-1, 9=104/7-2-1, 10=165/7-2-1, 11=85/7-2-1, 15=85/7-2-1 Max Uplift 2=-9 (LC 12), 11=-76 (LC 12) Max Uplift 2=-9 (LC 10), 8=-87 (LC 15), 10=-87 (LC 14), 11=-9 (LC 10) Max Grav 2=127 (LC 21), 6=127 (LC 22), 8=252 (LC 22), 9=111 (LC 21), 10=252 (LC 21), 11=127 (LC 21), 15=127 (LC 22)				Wind: ASCE Vasd=103mp Cat. II; Exp E zone and C-( (2R) 3-2-14 t zone; cantile and right exp MWFRS for grip DOL=1.6 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	13) See Det con LOAD (	Standa ail for Co sult qual	rd Indi onnect lified b ) Sta	ustry Piggyback 1 ion to base truss uilding designer. ndard	Fruss Conne as applicabl	ction e, or				
FORCES	(lb) - Max Tension	kimum Com	pression/Maximum	7)	overhangs n Gable require	on-concurrent with es continuous bott	other liv om chor	oad of 20.0 ps /e loads. d bearing.	at on				NUM CA	Della	
TOP CHORD	1-2=0/25 4-5=-100	, 2-3=-59/5; /84_5-6=-4	3, 3-4=-100/84, 6/34_6-7=0/25	8)	Gable studs	spaced at 2-0-0 oc	). or o 10 (	) not bottom				1	RTHOM	TOL	1
BOT CHORD WEBS <b>NOTES</b> 1) Unbalance this design	2-10=-24 6-8=-24/7 4-9=-73/0 ed roof live	/77, 9-10=- /7 0, 3-10=-20 loads have	24/77, 8-9=-24/77, 9/155, 5-8=-209/155 been considered for	9) 10 11	) * This truss ha chord live loa ) * This truss h on the bottor 3-06-00 tall b chord and ar ) N/A	is been designed fr ad nonconcurrent v has been designed n chord in all areas by 2-00-00 wide wil by other members.	or a 10.0 vith any for a liv s where Il fit betv	J pst bottom other live load e load of 20.0 a rectangle veen the botto	ds. ipsf om		Manna and and and and and and and and and	20	SEA 0363	L 22	A A A A A A A A A A A A A A A A A A A
												-			

12) 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.

11111111 May 17,2022

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![](_page_30_Picture_10.jpeg)

Job	Truss	Truss Type	Qty	Ply	DRB - 79 FARM AT NEILLS CREEK	
22040115	V1	Valley	1	1	Job Reference (optional)	151986875

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon May 16 22:38:50 ID:obl8CR79AVIhJxhIYr2zsHzhpM4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

![](_page_31_Figure_5.jpeg)

11-9-11

Scale	=	1:44.9	

Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(F 2) 2) 1) 1	psf) 20.0 20.0 0.0 0.0* 0.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	1-11- 1.15 1.15 YES IRC2	4 018/TPI2014	CSI TC BC WB Matrix-MSH	0.49 0.15 0.12	<b>DEFL</b> Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 7	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 67 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 Structural woo 6-0-0 oc purlin Rigid ceiling di bracing. (lb/size) 1=1 8=1 10= Max Horiz 1=2 Max Uplift 1=-5 (LC 14), Max Grav 1=1 8=2 10=	od shea 1s, exc 21/11- 60/11- 296/11- 229 (LC 3 (LC 1 : 14), 9= , 11=-7 52 (LC 39 (LC 39 (LC 23) (LC	thing directly applied ept end verticals. applied or 10-0-0 oc 9-11, 7=59/11-9-11, 9-11, 9=169/11-9-11 9-11, 11=299/11-9-11 11) 0), 7=-32 (LC 11), 8= -50 (LC 14), 10=-40 4 (LC 14) 24), 7=87 (LC 20), 20), 9=238 (LC 20), C 20), 11=306 (LC 2)	d or 1 =-52 ) (LC	<ol> <li>Truss desig only. For stu see Standar or consult qu</li> <li>TCLL: ASCE Plate DOL=1</li> <li>DOL=1.15); Cs=1.00; Ct-4)</li> <li>Unbalanced design.</li> <li>All plates are 6) Gable requir</li> <li>Gable studs</li> <li>This truss he chord live loa</li> <li>* This truss he on the bottor 3-06-00 tall h chord and ar</li> <li>Provide mec bearing plate</li> </ol>	here for wind load hids exposed to wid a Industry Gable lailified building dd ; 7-16; Pr=20.0 ps 1.5); Pf=20.0 ps ls=1.0; Rough Ca =1.10 snow loads have a 2x4 MT20 unless es continuous bo spaced at 2-0-0 d spaced at 2-0-0 d spac	s in the p ind (norm End Deta ssigner a sf (roof LI (Lum DC t B; Fully been col s otherwit ttom choi bc. for a 10. with any d for a liv as where vill fit betv s. on (by oth tanding)	lane of the tru lal to the face ills as applical s per ANSI/TF :: Lum DOL= DL=1.15 Plate Exp.; Ce=0.9 nsidered for th ise indicated. d bearing. 0 psf bottom other live loa re load of 20.0 a rectangle ween the botto ters) of truss t 32 b uplift at i	uss ), ble, PI 1. 1.15 D; ds. opsf om o					
FORCES	(lb) - Maximun Tension	n Comp	pression/Maximum		7, 3 lb uplift joint 9, 40 lb	at joint 1, 52 lb up uplift at joint 10 a	olift at join and 74 lb	it 8, 50 lb upli uplift at joint 1	ft at 1.				ann	1111
TOP CHORD	1-2=-241/135, 4-5=-125/83, 5	2-3=-1 5-6=-93	53/93, 3-4=-132/85, 8/94, 6-7=-72/26		11) This truss is International	designed in acco Residential Code	rdance w e sections	rith the 2018 s R502.11.1 a	nd			- 3	"TH CA	RO
BOT CHORD	1-11=-98/177, 8-9=-98/124, 7	, 10-11= 7-8=-98	=-98/124, 9-10=-98/1 8/124	124,	R802.10.2 a	nd referenced sta Standard	Indard Al	NSI/TPI 1.			/	N.	ONJEESS	Signa -
WEBS	5-8=-200/74, 4 2-11=-199/157	4-9=-19 7	2/123, 3-10=-95/82,		()						Z	Z	200	hill
NOTES 1) Wind: ASC Vasd=103 Cat. II; Ex zone and 3-0-7 to 8- cantilever right expos	CE 7-16; Vult=13 imph; TCDL=6.0 p B; Enclosed; M C-C Corner(3E) ·8-6, Corner(3E) left and right exp sed;C-C for mer	30mph psf; BC /WFRS 0-0-7 to 8-8-6 t posed ; nbers a	(3-second gust) :DL=6.0psf; h=25ft; (envelope) exterior o 3-0-7, Exterior(2N) o 11-8-6 zone; end vertical left and nd forces & MWFRS	6								A A A A A A A A A A A A A A A A A A A	SEA 0363	EER. KIN

- 0-7 to 8-8-6, Corner(3E) 8-8-6 to 11-8-6 zor 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
  - WARNING Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

![](_page_31_Picture_10.jpeg)

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May 17,2022

Job	Truss	Truss Type	Qty	Ply	DRB - 79 FARM AT NEILLS CREEK	
22040115	V2	Valley	1	1	Job Reference (optional)	151986876

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon May 16 22:38:50 ID:gMYf1oAgDjo6oY?3nh7v07zhpM0-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

![](_page_32_Figure_5.jpeg)

9-4-7

Scale = 1:36.2

Loading TCLL (roof)		(psf) 20.0	Spacing Plate Grip DOL	1-11-4 1.15		CSI TC	0.39	DEFL Vert(LL)	in n/a	(loc)	l/defl n/a	L/d 999	PLATES MT20	<b>GRIP</b> 244/190
Snow (Pf)		20.0	Lumber DOL	1.15		BC	0.27	Vert(TL)	n/a	-	n/a	999		
TCDL		10.0	Rep Stress Incr	YES		WB	0.10	Horiz(TL)	0.01	4	n/a	n/a		
BCDL		0.0* 10.0	Code	IRC2018	3/TPI2014	Matrix-MSH							Weight: 40 lb	FT = 20%
LUMBER TOP CHORD	2x4 SP N	0.2		3)	TCLL: ASCE Plate DOL=1	7-16; Pr=20.0 psi 1.15); Pf=20.0 psf	f (roof LL (Lum DC	: Lum DOL= DL=1.15 Plate	1.15					
BOT CHORD	2x4 SP N	0.2			DOL=1.15);	Is=1.0; Rough Cat -1 10	B; Fully	Exp.; Ce=0.9	);					
OTHERS	2x4 SP N 2x4 SP N	0.3 0.3		4)	Unbalanced	snow loads have b	been cor	sidered for th	nis					
BRACING					design.									
TOP CHORD	Structural 6-0-0 oc p	l wood she ourlins, ex	athing directly applie cept end verticals.	d or 5) 6)	Gable requir Gable studs	es continuous bott spaced at 4-0-0 or	om chor c.	d bearing.						
BOT CHORD	Rigid ceili bracing.	ing directly	applied or 10-0-0 oc	7)	This truss ha	as been designed f ad nonconcurrent v	for a 10.0 with any	) psf bottom other live loa	ds.					
REACTIONS	(lb/size) Max Horiz Max Uplift Max Grav	1=168/9-4 5=453/9-4 1=179 (LC 4=-28 (LC 1=192 (LC 5=579 (LC	I-7, 4=94/9-4-7, I-7 C 11) C 11), 5=-112 (LC 14) C 24), 4=170 (LC 5), C 5).	8) 9)	* This truss h on the bottor 3-06-00 tall h chord and ar Provide mec bearing plate	nas been designed n chord in all area by 2-00-00 wide wi hy other members, hanical connection e capable of withst	I for a liv s where ill fit betv with BC n (by oth anding 2	e load of 20.0 a rectangle veen the botto DL = 10.0psf ers) of truss t 8 lb uplift at j	)psf om o oint					
FORCES	(lb) - Max	imum Com	pression/Maximum	10)	4 and 112 lb ) This truss is	designed in accord	dance w	ith the 2018						
TOP CHORD BOT CHORD WEBS	1-2=-312/ 1-5=-78/2 2-5=-433/	(130, 2-3=- 272, 4-5=-7) (169	123/65, 3-4=-141/41 8/86	LO	R802.10.2 a	nd referenced star Standard	Idard AN	ISI/TPI 1.	ina					
NOTES														Un.
<ol> <li>Wind: ASC Vasd=103 Cat. II; Ex zone and 3-0-7 to 5- cantilever right expo for reactio DOL=1.6C</li> <li>Truss des only. For see Stand or consult</li> </ol>	CE 7-16; Vu mph; TCDL p B; Enclose; C-C Exterio -0-3, Exterio left and righ sed;C-C for nns shown; L ) signed for w studs expose lard Industry qualified bu	It=130mph =6.0psf; Bt ed; MWFR? r(2E) 0-0-7 rr(2R) 5-0-3 it exposed members a .umber DO ind loads in sed to wind of Gable En- ilding desig	(3-second gust) CDL=6.0psf; h=25ft; S (envelope) exterior to 3-0-7, Interior (1) to 9-3-2 zone; ; end vertical left and and forces & MWFRS L=1.60 plate grip h the plane of the trus (normal to the face), d Details as applicab gner as per ANSI/TP	: S ; le, I 1.							And the second second	A MARTINE AND A	SEA 0363	ROUTER REPUT

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

![](_page_32_Picture_10.jpeg)

GI 100000 May 17,2022

Job	Truss	Truss Type	Qty	Ply	DRB - 79 FARM AT NEILLS CREEK	
22040115	V3	Valley	1	1	Job Reference (optional)	151986877

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon May 16 22:38:50 ID:dlfQSUCwlL2q1s9Sv59O5YzhpM\_-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

![](_page_33_Figure_4.jpeg)

9-0-8

### Scale = 1:35.4

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	3/TPI2014	<b>CSI</b> TC BC WB Matrix-MSH	0.37 0.25 0.10	<b>DEFL</b> Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 39 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 Structural wood shee 6-0-0 oc purlins, exc Rigid ceiling directly bracing. (Ib/size) 1=162/9-0 5=446/9-0 Max Horiz 1=178 (LC Max Uplift 4=-28 (LC Max Uplift 4=-28 (LC Max Grav 1=170 (LC 5=570 (LC (Ib) - Maximum Com Tension 1-2=-270/126, 2-3=-	athing directly applied cept end verticals. applied or 10-0-0 oc 1-8, 4=103/9-0-8, 1-8 11), 5=-113 (LC 14) 2 28), 4=169 (LC 20), 2 00) pression/Maximum 123/63, 3-4=-148/42	3) 4) 1 or 5) 6) 7) 8) 9) 10	TCLL: ASCE Plate DOL=1 DOL=1.15); I Cs=1.00; Ct= Unbalanced design. Gable requin Gable studs This truss ha chord live loa * This truss ha chord live loa * This truss ha chord live loa * This truss ha chord and ar Provide mec bearing plate 4 and 113 lb ) This truss is International R802.10.2 ar	7-16; Pr=20.0 ps 7-16; Pf=20.0 ps 15); Pf=20.0 ps s=1.0; Rough Ca 1.10 snow loads have es continuous bo spaced at 4-0-0 c s been designed ad nonconcurrent ias been designed in chord in all arec y 2-00-00 wide w y other members hanical connection capable of withs uplift at joint 5. designed in accoo Residential Code ind referenced sta	sf (roof LL (Lum DC at B; Fully been cor ttom chor oc. for a 10.0 with any d for a liv as where will fit betw s. nn (by oth tranding 2 rdance w e sections indard AN	:: Lum DOL= UL=1.15 Plate Exp.; Ce=0.9 isidered for th d bearing. D psf bottom other live load e load of 20.0 a rectangle veen the botto ers) of truss t 8 lb uplift at j ith the 2018 R502.11.1 a ISI/TPI 1.	ds. Dpsf om oont					
BOT CHORD WEBS NOTES	1-5=-77/235, 4-5=-77 2-5=-435/173	7/85	LC	OAD CASE(S)	Standard							mmm	uun.

- 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) 0-0-7 to 3-0-7, Interior (1) 3-0-7 to 4-8-4, Exterior(2R) 4-8-4 to 8-11-3 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.

SEAL 036322 MGINEER May 17,2022

![](_page_33_Picture_10.jpeg)

Job	Truss	Truss Type	Qty	Ply	DRB - 79 FARM AT NEILLS CREEK	
22040115	V4	Valley	1	1	Job Reference (optional)	151986878

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon May 16 22:38:50 ID:Z7nAtADAHyIYGAIq0WBsBzzhpLy-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

20%

![](_page_34_Figure_5.jpeg)

6-6-2

![](_page_34_Figure_6.jpeg)

Scale = 1:29.3

Loading TCLL (roof) Snow (Pf) TCDL BCLL	(psf) 20.0 20.0 10.0 0.0*	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	8/TPI2014	CSI TC BC WB Matrix-MP	0.31 0.12 0.08	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	<b>GRIP</b> 244/190
BCDL LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	10.0 2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. (lb/size) 1=55/6-6- 5=329/6-6 Max Horiz 1=125 (LC Max Uplift 1=-5 (LC	athing directly applie cept end verticals. applied or 10-0-0 or 2, 4=125/6-6-2, 5-2 C 11) 10), 4=-22 (LC 11), 5	4; 5; 6; 7; 9; 5=-93	<ul> <li>Unbalanced design.</li> <li>Gable requir</li> <li>Gable studs</li> <li>This truss ha chord live lo.</li> <li>* This truss lo on the bottor</li> <li>3-06-00 tall 11 chord and at</li> <li>Provide mec bearing plate</li> <li>1, 22 lb uplif</li> <li>This truss is</li> </ul>	snow loads have res continuous be spaced at 4-0-0 as been designer m chord in all are by 2-00-00 wide ny other member inhanical connecti e capable of with t at joint 4 and 93 designed in acco	e been con oc. d for a 10. t with any ed for a live eas where will fit betw 's. on (by oth standing § 3 lb uplift a ordance w	nsidered for t rd bearing. 0 psf bottom other live loa re load of 20. a rectangle ween the bott ters) of truss 5 lb uplift at jo at joint 5. ifth the 2018	his Ids. Dpsf om int				Weight: 26 lb	FT = 204
FORCES TOP CHORD BOT CHORD	(LC 14) Max Grav 1=75 (LC 5=468 (LC (lb) - Maximum Com Tension 1-2=-108/97, 2-3=-1 1-5=-58/63, 4-5=-58	24), 4=186 (LC 20), C 20) apression/Maximum 14/59, 3-4=-154/40 /63	L	R802.10.2 a	nd referenced st Standard	andard AN	NSI/TPI 1.						
WEBS NOTES 1) Wind: AS( Vasd=103 Cat. II; Ex zone and	2-5=-401/195 CE 7-16; Vult=130mph imph; TCDL=6.0psf; Bi p B; Enclosed; MWFR C-C Exterior(2E) zone	(3-second gust) CDL=6.0psf; h=25ft; S (envelope) exterio ; cantilever left and r	r ight							4	L'IL	OR EESS	RO

- 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
- 2) 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 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

![](_page_34_Picture_12.jpeg)

![](_page_34_Picture_13.jpeg)

Job	Truss	Truss Type	Qty	Ply	DRB - 79 FARM AT NEILLS CREEK	
22040115	V5	Valley	1	1	Job Reference (optional)	151986879

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon May 16 22:38:50 ID:VWvwIsFRpZYGWTSD8xEKGOzhpLw-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

![](_page_35_Figure_4.jpeg)

6-2-3

![](_page_35_Figure_5.jpeg)

Scale = 1:28.5

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	0.31	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)		20.0	Lumber DOL	1.15		BC	0.12	Vert(TL)	n/a	-	n/a	999		
TCDL		10.0	Rep Stress Incr	YES		WB	0.08	Horiz(TL)	0.00	4	n/a	n/a		
BCLL		0.0*	Code	IRC201	8/TPI2014	Matrix-MP								
BCDL		10.0											Weight: 25 lb	FT = 20%
LUMBER				4)	Unbalanced	snow loads have b	been cor	nsidered for th	nis					
TOP CHORD	2x4 SP N	0.2			design.									
BOT CHORD	2x4 SP N	o.2		5)	Gable requir	es continuous bott	om choi	d bearing.						
WEBS	2x4 SP N	0.3		6)	Gable studs	spaced at 4-0-0 oc	<b>.</b>							
OTHERS	2x4 SP N	0.3		7)	This truss ha	s been designed f	or a 10.	0 psf bottom						
BRACING					chord live loa	ad nonconcurrent v	with any	other live loa	ds.					
TOP CHORD	Structura	I wood shea	athing directly applie	dor 8)	* This truss h	as been designed	for a liv	e load of 20.0	Opsf					
	6-0-0 oc j	ourlins, exe	cept end verticals.		on the bottor	n chord in all areas	s where	a rectangle						
BOT CHORD	Rigid ceil bracing.	ing directly	applied or 10-0-0 oc		3-06-00 tall t chord and ar	y 2-00-00 wide wi y other members.	Il fit betv	veen the botto	m					
REACTIONS	(lb/size)	1=36/6-2- 5=321/6-2	3, 4=125/6-2-3, 2-3	9)	bearing plate	capable of withsta	anding 2	ers) of truss t 27 lb uplift at j	o oint					
	Max Horiz	1=119 (LC	C 11)		4, 10 lb upliff	at joint 1 and 90 l	b uplift a	at joint 5.						
	Max Uplift	1=-10 (LC	(LC 14), 4=-27 (LC 14),	10	) This truss is	designed in accord	dance w	ith the 2018	nd					
	-	5=-90 (LC	: 14)			Residential Code	dord AN	S R 302.11.1 a	ina					
	Max Grav	1=59 (LC 5=464 (LC	28), 4=186 (LC 20), C 20)	LC	DAD CASE(S)	Standard		NSI/1F11.						
FORCES	(lb) - Max Tension	imum Com	pression/Maximum											
TOP CHORD	1-2=-113	/98, 2-3=-1	14/58, 3-4=-153/45											
BOT CHORD	1-5=-55/6	60, 4-5=-55/	/60											
WEBS	2-5=-412	/207												U
NOTES													White CA	Dalle
1) Wind: ASC	CE 7-16; Vu	lt=130mph	(3-second gust)									1	"aTH UN	TO 111
Vasd=103	8mph; TCDL	.=6.0psf; B0	CDL=6.0psf; h=25ft;									N	OTIEFSS	in Allen
Cat. II; Ex	p B; Enclos	ed; MWFR	S (envelope) exterior	•							/	$\epsilon \epsilon$	i Officia	Nall
zone and	C-C Exterio	r(2E) zone;	cantilever left and ri	ght							4	V		
exposed;	end vertica	I left and rig	int exposed;C-C for								-			
Inempers		& IVIVVERS	I = 1 60										SEA	L : =
2) Truce der		ind loods in	the plane of the true								=		0363	22 =
2) Truss des	stude expos	and to wind	(normal to the face)	55							-		. 0505	44 <u>i</u> E
see Stand	lard Industry	/ Gable En/	d Details as applicab	le									N.	1 3
or consult	qualified bu	ilding desid	gner as per ANSI/TP	11.								2.	N. En	Riks
3) TCLL: AS	CE 7-16; Pr	=20.0 psf (	roof LL: Lum DOL=1	.15								25	GIN	EFRAN
Plate DOL	_=1.15); Pf=	20.0 psf (L	um DOL=1.15 Plate									1	C .	IL BEIN
DOL=1.15	5); Is=1.0; R	ough Cat B	; Fully Exp.; Ce=0.9;										11, A. G	ILLIN
Cs=1.00;	s=1.00; Ct=1.10										1111.			

- 2 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 3) DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

![](_page_35_Picture_11.jpeg)

May 17,2022

Job	Truss	Truss Type	Qty	Ply	DRB - 79 FARM AT NEILLS CREEK	
22040115	V6	Valley	1	1	Job Reference (optional)	151986880

3-7-14

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

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon May 16 22:38:51 ID:OH8R8DIxto2i?5m\_NnIGQEzhpLs-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

May 17,2022

GINEEDING

818 Soundside Road Edenton, NC 27932

![](_page_36_Figure_5.jpeg)

2x4 🍃

3-7-14

S .... 4.00 5

Ocale = 1.22.5													
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	2-0-0 1.15 1.15 YES IRC2018/TI	PI2014	CSI TC BC WB Matrix-MP	0.21 0.25 0.00	DEFL 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: 13 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD BOT CHORD BOT CHORD NOTES 1) Wind: ASC Vasd=103r Cat. II; Exp zone and C exposed ; e members a Lumber DC 2) Truss desi or onsult c 3) TCLL: ASC Plate DOL= DOL=1.15) CS=1.00; C 4) Unbalancee design. 5) Gable requ 6) Gable stud	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood sheat 3-7-14 oc purlins, e: Rigid ceiling directly bracing. (lb/size) 1=140/3-7 Max Horiz 1=66 (LC Max Uplift 1=-13 (LC Max Uplift 1=-13 (LC (lb) - Maximum Com Tension 1-2=-289/54, 2-3=-1: 1-3=-61/240 E 7-16; Vult=130mph mph; TCDL=6.0psf; B4 B; Enclosed; MWFRS CE Exterior(2E) zone; end vertical left and rig und forces & MWFRS DL=1.60 plate grip DO gned for wind loads ir tuds exposed to wind ard Industry Gable Ena qualified building desig 2E 7-16; Pr=20.0 psf (Li :; Is=1.0; Rough Cat B :z=1.10 d snow loads have be d snow loads have be tires continuous bottor	athing directly applie xcept end verticals. applied or 10-0-0 oc '-14, 3=140/3-7-14 11) : 14), 3=-32 (LC 14) 2 0), 3=197 (LC 20) pression/Maximum 30/46 (3-second gust) CDL=6.0psf; h=25ft; S (envelope) exterior ; cantilever left and ri ght exposed;C-C for for reactions shown; L=1.60 n the plane of the trus (normal to the face), d Details as applicab gner as per ANSI/TP roof LL: Lum DOL=1. um DOL=1.15 Plate t; Fully Exp.; Ce=0.9; ten considered for thi m chord bearing.	7) T cl 8) * o 3 10) T r R LOAL ss le, 11. .15	his truss ha hord live loa This truss h n the botton -06-00 tall b hord and an Provide mect earing plate and 13 lb u his truss is a ternational 2802.10.2 ar D CASE(S)	s been designed fi d nonconcurrent v as been designed h chord in all areas y 2-00-00 wide wil y other members. hanical connection capable of withsta plift at joint 1. designed in accord Residential Code nd referenced stan Standard	or a 10.0 with any I for a liv s where II fit betw h (by oth anding 3 dance w sections adard AN	) psf bottom other live load e load of 20.0 a rectangle reen the botto ers) of truss to 2 lb uplift at jo th the 2018 R502.11.1 at ISI/TPI 1.	ds. psf m Dint nd		M. GUILLING.		SEA 0363	ROCKING LEER HUMAN

- 6) Gable studs spaced at 4-0-0 oc.

Job	Truss	Truss Type	Qty	Ply	DRB - 79 FARM AT NEILLS CREEK	
22040115	V7	Valley	1	1	Job Reference (optional)	151986881

Scale = 1:28.7 Loading

TCLL (roof)

Snow (Pf)

LUMBER

OTHERS

BRACING

TOP CHORD

BOT CHORD

TOP CHORD

BOT CHORD

FORCES

TCDL

BCLL

BCDL

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon May 16 22:38:51 ID:DpdXyCmRzpKN4SfCeU46yXzFnvm-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

GRIP

244/190

FT = 20%

![](_page_37_Figure_4.jpeg)

- TOP CHORD 1-2=-109/336, 2-3=-109/336 BOT CHORD 1-4=-228/161, 3-4=-228/161 2-4=-501/208 WEBS NOTES
- 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) 0-0-6 to 3-0-6, Exterior(2R) 3-0-6 to 5-8-8, Exterior(2E) 5-8-8 to 8-8-8 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 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.

International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. LOAD CASE(S) Standard

![](_page_37_Picture_10.jpeg)

![](_page_37_Picture_11.jpeg)

Job	Truss	Truss Type	Qty	Ply	DRB - 79 FARM AT NEILLS CREEK	
22040115	V8	Valley	1	1	Job Reference (optional)	151986882

2-7-1

2-7-1

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

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon May 16 22:38:51 ID:9BIINuniVQa5Jmpalv6a1yzFnvk-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

4-8-15

2-1-14

5-2-2

![](_page_38_Figure_3.jpeg)

Page: 1

![](_page_38_Figure_5.jpeg)

![](_page_38_Figure_6.jpeg)

5-2-2

Scale = 1:23.9

Loading TCLL (roof) Snow (Pf) TCDL		(psf) 20.0 20.0 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES		CSI TC BC WB	0.09 0.12 0.04	<b>DEFL</b> Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	<b>GRIP</b> 244/190
BCLL		0.0* 10.0	Code	IRC201	8/TPI2014	Matrix-MP							Weight: 17 lb	FT – 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP N 2x4 SP N 2x4 SP N Structural 5-2-2 oc p Rigid ceili bracing. (Ib/size) Max Horiz Max Uplift Max Grav	0.2 0.2 0.3 1 wood shead ourlins. ing directly 1=52/5-2-: 4=311/5-2 1=37 (LC 1=-5 (LC 14) 1=90 (LC (LC 21)	athing directly applie applied or 6-0-0 oc 2, 3=52/5-2-2, 1-2 11) 14), 3=-11 (LC 15), 4 20), 3=90 (LC 21), 4	4) 5) d or 6) 7) 8) 9) 4=-28 =314	TCLL: ASCE Plate DOL=1 DOL=1.15); Cs=1.00; Ct Unbalanced design. Gable requir Gable studs This truss ha chord live loa * This truss ha chord and ar ) Provide mec bearing plate 1 111 hunfiff	7-16; Pr=20.0 psf .15); Pf=20.0 psf .15); Pf=20.0 psf (ls=1.0; Rough Cat =1.10 snow loads have b es continuous bott spaced at 4-0-0 oc s been designed f ad nonconcurrent v has been designed n chord in all areas by 2-00-00 wide wi by other members. hanical connectior e capable of widst	i (roof LL Lum DC B; Fully been cor om chor C. or a 10.0 with any I for a liv s where Il fit betv h (by oth anding 5 b unliff a	L: Lum DOL=1 L=1.15 Plate Exp.; Ce=0.9 asidered for th d bearing. D psf bottom other live load e load of 20.0 a rectangle veen the botto ers) of truss to i bu plift at joit t joint 4	l.15 ; iis ds. jpsf om o nt				weight: 17 ib	FT = 20%
FORCES	(lb) - Max Tension	imum Com	pression/Maximum	11	11) This russ is designed in accordance with the 2018 International Residential Code sections R502.11.1 and									
BOT CHORD WEBS	1-2=-88/1 1-4=-91/8 2-4=-196/	20, 2-3=-88 3, 3-4=-91/ /100	8/120 /83	LC	R802.10.2 a	nd referenced stan Standard	idard AN	ISI/TPI 1.						
NOTES														
<ol> <li>Unbalance this design</li> <li>Wind: ASC Vasd=103 Cat. II; Exp zone and ( exposed ; members a Lumber D0</li> <li>Truss dess only. For see Stand, or consult</li> </ol>	ed roof live I T. CE 7-16; Vu mph; TCDL p B; Enclose C-C Exterio end vertica and forces a OL=1.60 pla signed for w studs expos ard Industry qualified bu	oads have =6.0psf; BC ed; MWFRS; r(2E) zone; t left and rig & MWFRS ate grip DO ind loads in sed to wind o Gable End ilding desig	been considered for (3-second gust) CDL=6.0psf; h=25ft; S (envelope) exterior cantilever left and ri ht exposed;C-C for for reactions shown; L=1.60 the plane of the trus (normal to the face) d Details as applicab gner as per ANSI/TP	ight ss le, l 1.							Withhar		SEA 0363	ROLL 22 EER. R. LUI

818 Soundside Road Edenton, NC 27932

GI 11111111 May 17,2022

![](_page_38_Picture_15.jpeg)

![](_page_39_Figure_0.jpeg)