

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 3769891 Bonnet A - Lot 4 - Fairground Farms

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

Pages or sheets covered by this seal: I62262406 thru I62262415

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

North Carolina COA: C-0844



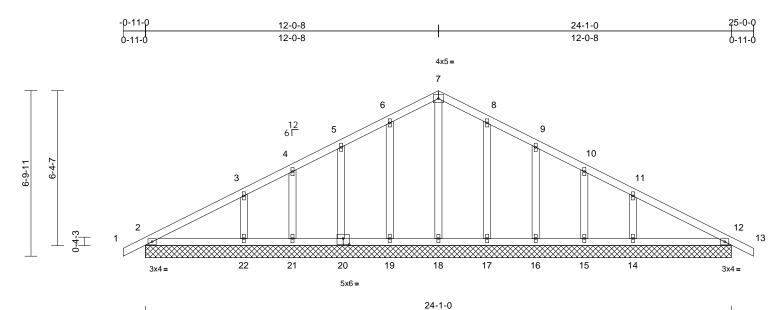
November 29,2023

Gilbert, Eric

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

Job	Truss	Truss Type	Qty	Ply	Bonnet A - Lot 4 - Fairground Farms	
3769891	A01	Common Supported Gable	1	1	Job Reference (optional)	162262406

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Nov 29 10:07:23 ID:v2D8tW20?IBXcZpw7A8nfzzAcvr-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:47.4

Plate Offsets (X, Y): [20:0-3-0,0-3-0]

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	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.15		BC	0.12	Vert(CT)	n/a	-	n/a	999	-	
TCDL	10.0	Rep Stress Incr	YES		WB	0.10	Horz(CT)	0.00	12	n/a	n/a		
BCLL	0.0*	Code	IRC201	5/TPI2014	Matrix-S								
BCDL	10.0			0,1112011								Weight: 127 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD	2x4 SP No.2 2x4 SP No.3 Structural wood she 6-0-0 oc purlins.	athing directly applied	1) 2)	this design. Wind: ASCE Vasd=95mpł II; Exp B; En	roof live loads hav 7-10; Vult=120mp n; TCDL=6.0psf; E closed; MWFRS (t and right expose v = 1 60	ph (3-seo 3CDL=6. envelope	cond gust) 0psf; h=30ft; C e) exterior zon	Cat. e;	bea 2, 3 uplif 17, uplif 14) Bev	ring plat 6 lb upli t at join 38 lb up t at join eled pla	te capa ft at jo t 21, 6 lift at j t 14 ar te or s	cal connection (by able of withstand int 19, 37 lb upliff 7 lb uplift at joint oint 16, 21 lb upli nd 8 lb uplift at joint	y others) of truss to ing 7 lb uplift at joint t at joint 20, 20 lb 22, 34 lb uplift at joint ift at joint 15, 67 lb int 12. provide full bearing
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 oc	3)	Truss desig	ned for wind loads				15) This	truss is	desig	ned in accordan	ce with the 2015
	15=24-1-(18=24-1-(21=24-1-(21=24-1-(21=24-1-(21=24-1-(12=-27 (LC 14=-67 (L 14=-67 (L 14=-38 (L 19=-38 (L 21=-20 (L 14=341 (L 16=214 (L 16=214 (L 16=214 (L 20=212 (L 22=341 (L	13), 12=-8 (LC 13), C 13), 15=-21 (LC 13 C 13), 17=-34 (LC 13 C 12), 20=-37 (LC 12 C 12), 22=-67 (LC 12 C 1), 12=217 (LC 1), LC 20), 15=101 (LC 1), LC 20), 17=262 (LC 6), C 25), 19=259 (LC 5), LC 19), 21=103 (LC 1), LC 19)	-0, -0, 4)), 5)), 6) 1, 7) 1, 8) 1, 9)	see Standard or consult qu TCLL: ASCE DOL=1.15 P snow); Pf=23 Plate DOL=1 Ct=1.10 Unbalanced design. This truss ha load of 12.0 overhangs n All plates are Gable requir Gable studs	ds exposed to wii d Industry Gable E alified building de 7-10; Pr=20.0 ps ate DOL=1.15); F .1 psf (flat roof sr .15); Category II; snow loads have s been designed osf or 2.00 times f on-concurrent with 1.5x4 MT20 unle es continuous bot spaced at 2-0-0 o s been designed	End Deta signer a: f (roof liv 2g=30.0 p low: Lur Exp B; F been cor for great flat roof li- n other li ss other tom chor c.	ils as applicab s per ANSI/TP e load: Lumbe sof (ground iber DOL=1.1 ratially Exp.; asidered for th er of min roof I pad of 23.1 ps ve loads. wise indicated d bearing.	lle, I 1. er 5 is live f on		2.10.2 a	and ref	ferenced standar	tions R502.11.1 and d ANSI/TPI 1.
FORCES	(lb) - Maximum Com Tension 1-2=0/43, 2-3=-114/ 4-5=-47/92, 5-6=-52 7-8=-59/126, 8-9=-5 10-11=-59/24 11-12	76, 3-4=-71/74, /113, 6-7=-58/132,	11	 chord live loa This truss h on the bottor 3-06-00 tall b chord and and 	ad nonconcurrent has been designed in chord in all area by 1-00-00 wide w hy other members	with any d for a liv is where ill fit betw , with BC	other live load e load of 20.0 a rectangle veen the botto DL = 10.0psf.	psf m				SEA 0363	L 22
BOT CHORD	2-22=-4/87, 21-22=- 18-19=-4/87, 17-18= 15-16=-4/87, 14-15=	4/87, 19-21=-4/87, =-4/87, 16-17=-4/87, =-4/87, 12-14=-4/87		 All bearings a capacity of 5 	are assumed to be 65 psi.	e SP No.	2 crushing					SEA 0363	EER. KIN
WEBS	4-21=-85/39, 3-22=-	199/58, 5-20=-166/63 248/106, 8-17=-199/5 5=-85/39, 11-14=-248/	7,								11	A. C	

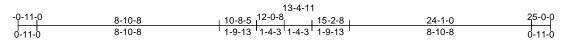
November 29,2023

Page: 1

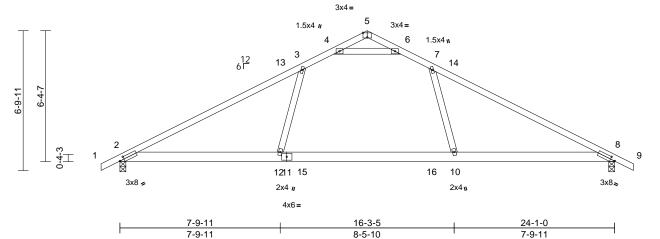


Job	Truss	Truss Type	Qty	Ply	Bonnet A - Lot 4 - Fairground Farms	
3769891	A02	Common	6	1	Job Reference (optional)	162262407

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Nov 29 10:07:26 ID:P19V2FxxjBldnHardswqrNzAcs6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



3x5=



Scale = 1:56.1

Plate Offsets (X, Y): [2:0-2-10,0-1-8], [5:0-2-8,Edge], [8:0-2-10,0-1-8]

	A, T). [2.0-2-10,0-1-0	j, [5.0-2-6,⊏uyej, [6.	.0-2-10,0-1-	0]	1	-							
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 23.1/30.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2015	/TPI2014	CSI TC BC WB Matrix-S	0.82 0.75 0.56	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.34 -0.46 0.03	(loc) 8-10 8-10 8	l/defl >843 >627 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 117 lb	GRIP 244/190 FT = 20%
	2x4 SP 2400F 2.0E 2x6 SP No.2 2x4 SP No.3 Structural wood she 4-0-8 oc purlins. Rigid ceiling directly bracing. (size) 2=0-3-8, 6 Max Horiz 2=-92 (LC Max Uplift 2=-71 (LC Max Grav 2=1096 (I (Ib) - Maximum Com Tension 1-2=0/51, 2-3=-1673 4-5=-113/854, 5-6=- 7-8=-1673/81, 8-9=(2-12=0/1381, 10-12: 3-12=0/408, 7-10=0	applied or 10-0-0 or 3=0-3-8 (17) (12), 8=-71 (LC 13) LC 1), 8=1096 (LC 1 apression/Maximum 8/81, 3-4=-1245/122 114/854, 6-7=-1245 //51 =-17/1293, 8-10=-4/	c 8) 9)) , /122, LO 1381	load of 12.0 overhangs n This truss ha chord live loa * This truss h on the bottor 3-06-00 tall l chord and au All bearings capacity of 5 Provide mee bearing plate 2 and 71 lb o This truss is International	hanical connection capable of withs uplift at joint 8. designed in accoor Residential Code and referenced sta	flat roof k th other liv for a 10.0 with any od for a liv as where vill fit betw s, with BC be SP No. on (by oth- standing 7 ordance wie s sections	and of 23.1 p re loads. D psf bottom other live load e load of 20.1 a rectangle veen the bott DL = 10.0ps 2 crushing ers) of truss 1 lb uplift at j ith the 2015 R502.11.1 a	ads. Opsf com f. to joint					
this design 2) Wind: ASC Vasd=95m II; Exp B; E cantilever I plate grip I	CE 7-10; Vult=120mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed	(3-second gust) DL=6.0psf; h=30ft; (avelope) exterior zor ; Lumber DOL=1.60	Cat. ne;)							1 million	(Frid	OFES SEA	• –

- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.

SEAL 036322 A. GILBER

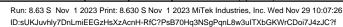
Page: 1

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSUTP11 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcaccomponents.com)



Job	Truss	Truss Type	Qty	Ply	Bonnet A - Lot 4 - Fairground Farms	
3769891	A03	Common	1	1	Job Reference (optional)	162262408

Scale = 1:56.1



13-4-11 | <u>10-8-5</u> | <mark>12-0-8</mark> | <u>15-2-8</u> | 1-9-13 | 1-4-3 | 1-4-3 | 1-9-13 |

Page: 1

24-1-0 8-10-8

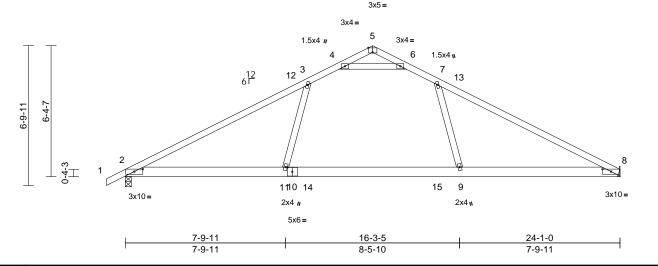


Plate Offsets (X, Y): [2:0-5-0,0-1-7], [5:0-2-8,Edge], [8:0-5-0,0-1-7], [10:0-2-14,0-2-8]

-0-11-0 0-11-0

8-10-8

8-10-8

Plate Offsets (X, Y): [2:0-5-0,0-1-7],	, [5:0-2-8,Edge], [8:0-	5-0,0-1-7	, [10:0-2-14,0-	2-8]								
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 23.1/30.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	5/TPI2014	CSI TC BC WB Matrix-S	0.87 0.78 0.58	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.36 -0.49 0.03	(loc) 8-9 8-9 8	l/defl >800 >590 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 116 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD BOT CHORD BOT CHORD BOT CHORD	2x4 SP No.3 Structural wood she 2-2-0 oc purlins. Rigid ceiling directly bracing. (size) 2=0-3-8, 8 Max Horiz 2=99 (LC Max Uplift 2=-71 (LC Max Grav 2=1101 (L (Ib) - Maximum Com Tension 1-2=0/51, 2-3=-1694 4-5=-119/902, 5-6=- 7-8=-1668/78 2-11=0/1399, 9-11=-	 212), 8=-54 (LC 13) LC 1), 8=1027 (LC 1) apression/Maximum 4/86, 3-4=-1256/123, 128/896, 6-7=-1262/ -24/1309, 8-9=-10/13 	8) 9) 10 11 123, L	load of 12.0 overhangs n This truss ha chord live loa * This truss l on the bottor 3-06-00 tall l chord and a Bearings are capacity of 5 Refer to gird)) Provide mec bearing platt 8 and 71 lb (1) This truss is International	er(s) for truss to tru hanical connection e capable of withsta uplift at joint 2. designed in accord Residential Code nd referenced stan	at roof le other lif or a 10. vith any for a liv s where I fit betw with BC bint 2 SI uss conr (by oth anding 5 dance w sections	bad of 23.1 p ve loads. O psf bottom other live loa e load of 20. a rectangle veen the bott CDL = 10.0ps P No.2 crushi hections. ers) of truss i 54 lb uplift at j ith the 2015 s R502.11.1 a	sf on ads. Opsf om f. ing to joint					
this design 2) Wind: ASC Vasd=95m II; Exp B; I cantilever plate grip I 3) TCLL: ASC DOL=1.15 snow); Pf= Plate DOL Ct=1.10	CE 7-10; Vult=120mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed	been considered for DL=6.0psf; h=30ft; C velope) exterior zono ; Lumber DOL=1.60 roof live load: Lumbe =30.0 psf (ground w: Lumber DOL=1.15 xp B; Partially Exp.;	cat. e; er								2 A A A A A A A A A A A A A A A A A A A	SEA 0363	• -

- snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.

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



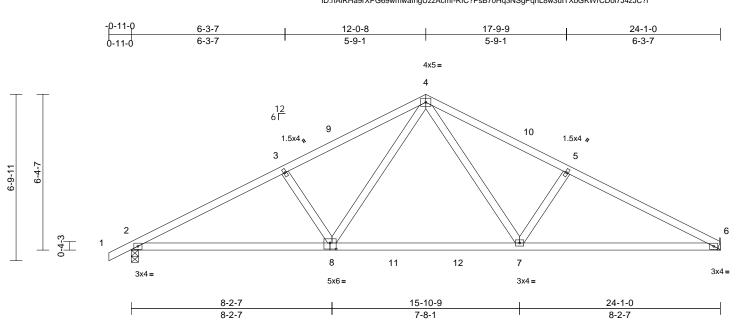
818 Soundside Road Edenton, NC 27932

G minim November 29,2023

Job	Truss	Truss Type	Qty	Ply	Bonnet A - Lot 4 - Fairground Farms	
3769891	A04	Common	8	1	Job Reference (optional)	162262409

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Nov 29 10:07:26 ID:hAIRHa9rXPG69wmwafhgUzzAcmf-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:47.1

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

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)		Plate Grip DOL	1.15		TC	0.64	Vert(LL)	-0.15	7-8	>999	240	MT20	244/190
Snow (Pf/Pg)		Lumber DOL	1.15		BC	0.75	Vert(CT)	-0.30	6-7	>954	180		
TCDL	10.0	Rep Stress Incr	YES		WB	0.27	Horz(CT)	0.05	6	n/a	n/a		
BCLL		Code	IRC20	15/TPI2014	Matrix-S								
BCDL	10.0											Weight: 109 lb	FT = 20%
LUMBER TOP CHORD	2x4 SP No.2		5		as been designed f psf or 2.00 times fl								
BOT CHORD					on-concurrent with			0. 0					
WEBS	2x4 SP No.3		6) This truss ha	as been designed f	or a 10.	0 psf bottom						
BRACING					ad nonconcurrent v								
TOP CHORD	Structural wood shea 3-2-15 oc purlins.	athing directly applie	ed or 7	on the botto	nas been designed m chord in all area	s where	a rectangle	•					
BOT CHORD	Rigid ceiling directly a	applied or 10-0-0 o	с		oy 1-00-00 wide wi								
	bracing.				ny other members,								
REACTIONS	(size) 2=0-3-8, 6=	= Mechanical	ö	capacity of 5	e assumed to be: J	011125	P No.2 crush	ing					
	Max Horiz 2=98 (LC 1	,	9		er(s) for truss to tru	uss con	nections.						
	Max Uplift 2=-71 (LC				hanical connection			to					
	Max Grav 2=1101 (LC		,		e capable of withst	anding \$	53 lb uplift at	joint					
FORCES	(lb) - Maximum Comp	pression/Maximum			uplift at joint 2.								
TOP CHORD	Tension 1-2=0/44, 2-3=-1809/	100 3-1-1588/12			designed in accord Residential Code			ام مد م					
	4-5=-1603/127, 5-6=-	,	э,		nd referenced star			and					
BOT CHORD				OAD CASE(S)			NOI/1111.						
WEBS	4-8=-61/622, 3-8=-42	20/174, 4-7=-64/651	1, -	OAD CAGE(S)	Standard								
	5-7=-445/180												
NOTES												munn	1111
,	ed roof live loads have b	been considered fo	r								1	TH CA	Rollin
this design		(2 second quet)									11	R	late
	CE 7-10; Vult=120mph (nph; TCDL=6.0psf; BCD		Cat								5.	FESS	ON: Viz
	Enclosed; MWFRS (env									2	Ż		2 and
	left and right exposed ;									-		ie.	5 : =

- II; Exp B; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber
- S) TCLL: ASCE 7-10; PT=20:0 psi (root live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat root snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.

SEAL 036322 November 29,2023

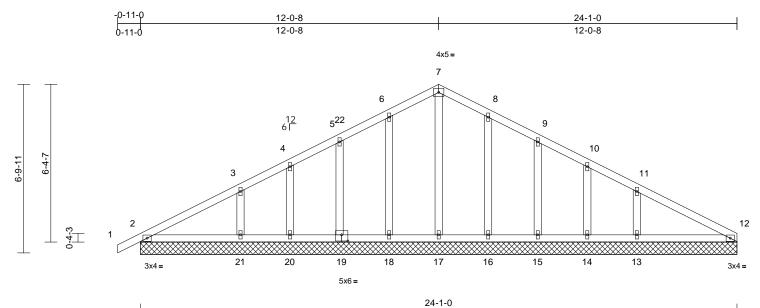
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 **ANSUTP11 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcaccomponents.com)



Job	Truss	Truss Type	Qty	Ply	Bonnet A - Lot 4 - Fairground Farms	
3769891	A05	Common Supported Gable	1	1	Job Reference (optional)	162262410

Run: 8,63 S Nov 1 2023 Print: 8,630 S Nov 1 2023 MiTek Industries, Inc. Wed Nov 29 10:07:26 ID:Wbe76RRH6U9rPS0LQ?b3wpzAcmI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:46.5 Plate Offsets (X, Y): [19:0-3-0,0-3-0]

	,, ,, ,, [,,,,,,,,,,,,,,,,,,,,,,,,,,,,,														
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)		20.0		1.15		тс	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
Snow (Pf/Pg)	23.1/3			1.15		BC	0.12	Vert(CT)	n/a	-	n/a	999	-		
TCDL		10.0		YES		WB	0.10	Horz(CT)	0.00	12	n/a	n/a			
BCLL		0.0*			5/TPI2014	Matrix-S	0.10	11012(01)	0.00	12	n/a	n/a			
BCDL		10.0	Code	INC201	5/1712014	Iviau IX-5							Weight: 126 lb	ET _ 200/	
BCDL		10.0											weight: 126 lb	F1 = 20%	_
LUMBER				N	DTES									y others) of truss to	
TOP CHORD	2x4 SP No.2			1)	Unbalanced	roof live loads hav	ve been	considered for		bea	ring plat	te capa	able of withstand	ling 5 lb uplift at joint	
BOT CHORD	2x4 SP No.2				this design.									t at joint 19, 20 lb	
OTHERS	2x4 SP No.3			2)		7-10; Vult=120m								21, 34 lb uplift at joint	
BRACING					Vasd=95mpl	n; TCDL=6.0psf; E	BCDL=6.	0psf; h=30ft; C	at.	16,	39 lb up	lift at jo	oint 15, 19 lb upl	lift at joint 14 and 72 lt)
TOP CHORD	Structural woo	od she	athing directly applied of	or	II; Exp B; En	closed; MWFRS (envelope	e) exterior zon	e;		ft at join				
	6-0-0 oc purlir		annig anoon) approu	0.		t and right expose	ed ; Luml	per DOL=1.60						provide full bearing	
BOT CHORD			applied or 10-0-0 oc		plate grip DC								chord at joint(s)		
	bracing.			3)		ned for wind loads								ce with the 2015	
REACTIONS	0	24-1-0	12=24-1-0, 13=24-1-0			ds exposed to wi								tions R502.11.1 and	
REACTIONO		,), 15=24-1-0, 16=24-1-	,		Industry Gable E				R80	02.10.2 a	and ref	erenced standar	rd ANSI/TPI 1.	
), 18=24-1-0, 19=24-1-	<u>0</u>		alified building de				LOAD	CASE(S) Sta	ndard		
), 21=24-1-0	°, 4)		7-10; Pr=20.0 ps			er						
	Max Horiz 2=9		,			ate DOL=1.15); F									
			13), 13=-72 (LC 13),			8.1 psf (flat roof sr			5						
			C 13), 15=-39 (LC 13),			.15); Category II;	Exp B; F	Partially Exp.;							
			C 13), 18=-36 (LC 12),		Ct=1.10										
			C 12), 20=-20 (LC 12),			snow loads have	been cor	nsidered for th	S						
		=-67 (L)			design.										
			C 1), 12=148 (LC 1),	6)		s been designed									
			.C 20), 14=94 (LC 1),			osf or 2.00 times f			fon						
			.C 20), 16=262 (LC 6),			on-concurrent with							mm	11111	
			.C 25), 18=256 (LC 5),	()		1.5x4 MT20 unle							N'LH CA	AROUN	
			.C 19), 20=103 (LC 1),	8)		es continuous bot		d bearing.				1	alli	Sel 12	
		=341 (L		9)		spaced at 2-0-0 o						n'	ORTHU	and in	
FORCES		,	pression/Maximum	10		s been designed								They	•
IONOLO	Tension		pression/maximum			ad nonconcurrent					-		41 1	1. 1.	
TOP CHORD		116/7	72, 3-4=-72/69,	11		as been designed			osf		-	< 3			
			/109, 6-7=-57/127,			n chord in all area							SEA	AL : =	
	,		3/85, 9-10=-38/50,			y 1-00-00 wide w					=	:	0200	· · · · ·	
	10-11=-62/32					y other members							0363	322 : :	
BOT CHORD		,	5/79, 18-20=-5/80,	12		are assumed to b	e SP No.	2 crushing			-	- 8	•	1 2	
BOT ONORD			-5/80, 15-16=-5/80,		capacity of 5	65 psi.						1	·	- 1 - S	
			-5/80, 12-13=-5/80									20	N. SNOW	FER. AN	
WEBS	,		195/58, 5-19=-157/63,									1	SEA 0363	EEFRENK INTERNET	
			248/106, 8-16=-199/57									1	CA -	BEN	
			=-79/36, 11-13=-262/1										11, A. C	212	
	0 10- 100/04	, 10 14	- 10,00, 11 10- 202/1										<i></i>	1111	
													Novembe	er 29.2023	

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

818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Bonnet A - Lot 4 - Fairground Farms	
3769891	B01G	Common Girder	1	2	Job Reference (optional)	162262411

Scale = 1:42.4

Run: 8,63 S Nov 1 2023 Print: 8,630 S Nov 1 2023 MiTek Industries, Inc. Wed Nov 29 10:07:27 ID:9Au5CMoTHOpkOvkwdacsbxzAclr-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

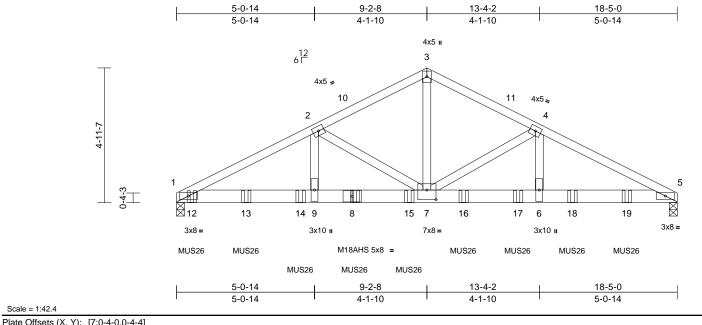


Plate Offsets (2	X, Y): [7:0-4-0,0-4-4]											
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 23.1/30.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2015/TPI2014	CSI TC BC WB Matrix-S	0.80 0.62 0.64	· · ·	in -0.12 -0.22 0.06	(loc) 6-7 6-7 5	l/defl >999 >985 n/a	L/d 240 180 n/a	PLATES MT20 M18AHS Weight: 200 lb	GRIP 244/190 186/179 FT = 20%
FORCES TOP CHORD	3-3-1 oc purlins. Rigid ceiling directly bracing. (size) 1=0-3-8, 5 Max Horiz 1=-65 (LC Max Uplift 1=-353 (L	eathing directly applied v applied or 10-0-0 oc 5=0-3-8 C 17) C 12), 5=-313 (LC 13) LC 1), 5=4986 (LC 1) hpression/Maximum =-6167/412, =-8966/563 =-518/7988, =-452/7957 =-2981/264,	 Vasd=95r II; Exp B; cantilever plate grip TCLL: AS DOL=1.15 snow); Pf: Plate DOL Ct=1.10 Unbalance Unbalance All plates This truss chord live * This truss on the bolo 3-06-00 ta chord and All bearing capacity of 10) Provide m bearing pl 	echanical connection ate capable of with	BCDL=6. (enveloped; Lumi sf (roof lin Pg=30.0) now: Lun ; Exp B; F been cool less othe for a 10. t with any ed for a lin as where vill fit betw s. be SP DS on (by oth standing 3	Opsf; h=30ft; i a) exterior zor ber DOL=1.6(re load: Lumb bosf (ground ber DOL=1.1 artially Exp.; asidered for the wise indicate 0 psf bottom other live load a rectangle veen the botto S crushing ers) of truss to	ne;) 15 his his his his his his his his his his		14=-100	07 (B),	(B), 12=-1013 (E 15=-1007 (B), 1 18=-1007 (B), 1	
 (0.131"x3" Top chords oc. Bottom cho staggered Web connel All loads a except if nu CASE(S) s provided to unless other 	ords connected as foll at 0-3-0 oc. ected as follows: 2x4 - re considered equally oted as front (F) or ba section. Ply to ply com o distribute only loads erwise indicated. d roof live loads have	s: 2x4 - 1 row at 0-9-0 lows: 2x6 - 2 rows - 1 row at 0-9-0 oc. applied to all plies, ick (B) face in the LOA nections have been noted as (F) or (B),	12) This truss Internation R802.10.2 13) Use Simp Truss, Sin oc max. s connect tr 14) Fill all nail D LOAD CASE(1) Dead + S Increase Uniform Vert: 1	Snow (balanced): Lu	ordance we e sections andard Al S26 (6-10 quivalent m the left e of botto er is in con umber Inc	S R502.11.1 a NSI/TPI 1. d Girder, 4-1(spaced at 2-(end to 16-6-1 m chord. ntact with lum	0d)-0 2 to ber.		Marinine.	KAN KINING	SEA 0363	EER A

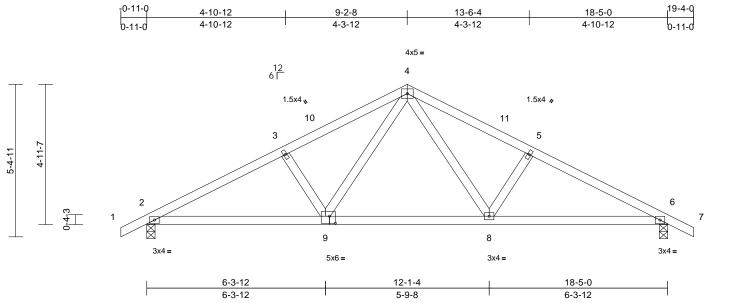
November 29,2023

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



Job	Truss	Truss Type	Qty	Ply	Bonnet A - Lot 4 - Fairground Farms		
3769891	B02	Common	8	1	Job Reference (optional)	l62262412	

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Nov 29 10:07:27 ID:a6CMgSsfZQvEyRTqn3BV9UZAckT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:40.7

Plate Offsets (X, Y): [9:0-2-8,0-3-0]

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 23.1/30.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC20 ⁷	5/TPI2014	CSI TC BC WB Matrix-S	0.33 0.44 0.19	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.05 -0.11 0.03	(loc) 6-8 6-8 6	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 85 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 BRACING TOP CHORD Structural wood sheathing directly applied or 4-8-14 oc purlins. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. REACTIONS (size) 2=0-3-8, 6=0-3-8 Max Horiz 2=72 (LC 16) Max Uplift 2=-58 (LC 12), 6=-58 (LC 13) Max Grav 2=852 (LC 1), 6=-852 (LC 1)			c 8 9	load of 12.0 overhangs r) This truss h chord live lo) * This truss on the botto 3-06-00 tall chord and a) All bearings capacity of 5) Provide mee bearing plate	as been designed psf or 2.00 times ion-concurrent wit as been designed ad nonconcurrent has been designe m chord in all area by 1-00-00 wide w ny other members are assumed to b 565 psi. chanical connectio e capable of withs uplift at joint 6.	flat roof lo th other liv for a 10.0 with any d for a liv as where vill fit betw s. be SP No. on (by oth	bad of 23.1 p ve loads. D psf bottom other live loa e load of 20. a rectangle veen the bott 2 crushing ers) of truss	osf on ads. .0psf tom to					
FORCES TOP CHORD BOT CHORD WEBS	4-5=-1180/93, 5-6=- 2-8=-80/1135, 6-8=- 4-9=-46/464, 3-9=-3	4/79, 3-4=-1180/93, .1344/79, 6-7=0/44 .9/1135	L	0) This truss is International	designed in account Residential Code and referenced sta	e sections	R502.11.1	and					
this design 2) Wind: ASC Vasd=95n II; Exp B; cantilever plate grip	5-8=-310/131 ed roof live loads have n. CE 7-10; Vult=120mph mph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed DOL=1.60 CE 7-10; Pr=20.0 psf (n (3-second gust) CDL=6.0psf; h=30ft; (nvelope) exterior zor ; Lumber DOL=1.60	Cat. ne;)							4	Ż	SEA	•

- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.



Page: 1

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSUTP11 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcaccomponents.com)

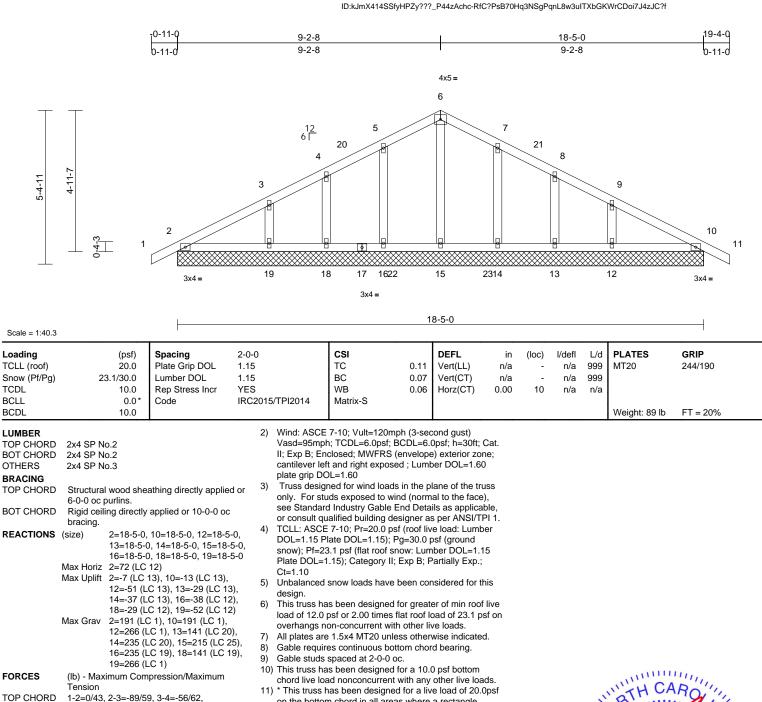


818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Bonnet A - Lot 4 - Fairground Farms		
3769891	B03	Common Supported Gable	1	1	Job Reference (optional)	l62262413	

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Nov 29 10:07:28

Page: 1



 $\begin{array}{rl} 4-5=-41/82, \, 5-6=-56/102, \, 6-7=-56/96, \\ 7-8=-41/88, \, 8-9=-51/32, \, 9-10=-66/38, \\ 10-11=0/43 \\ \\ \mbox{BOT CHORD} & 2-19=-2/68, \, 18-19=-2/68, \, 16-18=-2/68, \\ 15-16=-2/68, \, 14-15=-2/68, \, 13-14=-2/68, \\ 12-13=-2/68, \, 10-12=-2/68 \\ \\ \mbox{WEBS} & 6-15=-110/0, \, 5-16=-191/63, \, 4-18=-113/50, \\ 3-19=-195/84, \, 7-14=-191/62, \, 8-13=-113/50, \\ 9-12=-195/84 \\ \end{array}$

NOTES

- Unbalanced roof live loads have been considered for this design.
- chord live load nonconcurrent with any other live loads.
 11) * 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 1-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 12) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
 13) Provide mechanical connection (by others) of truss to
- bearing plate capable of withstanding 7 lb uplift at joint 2, 38 lb uplift at joint 16, 29 lb uplift at joint 18, 52 lb uplift at joint 19, 37 lb uplift at joint 14, 29 lb uplift at joint 13, 51 lb uplift at joint 12 and 13 lb uplift at joint 10.
- 14) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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

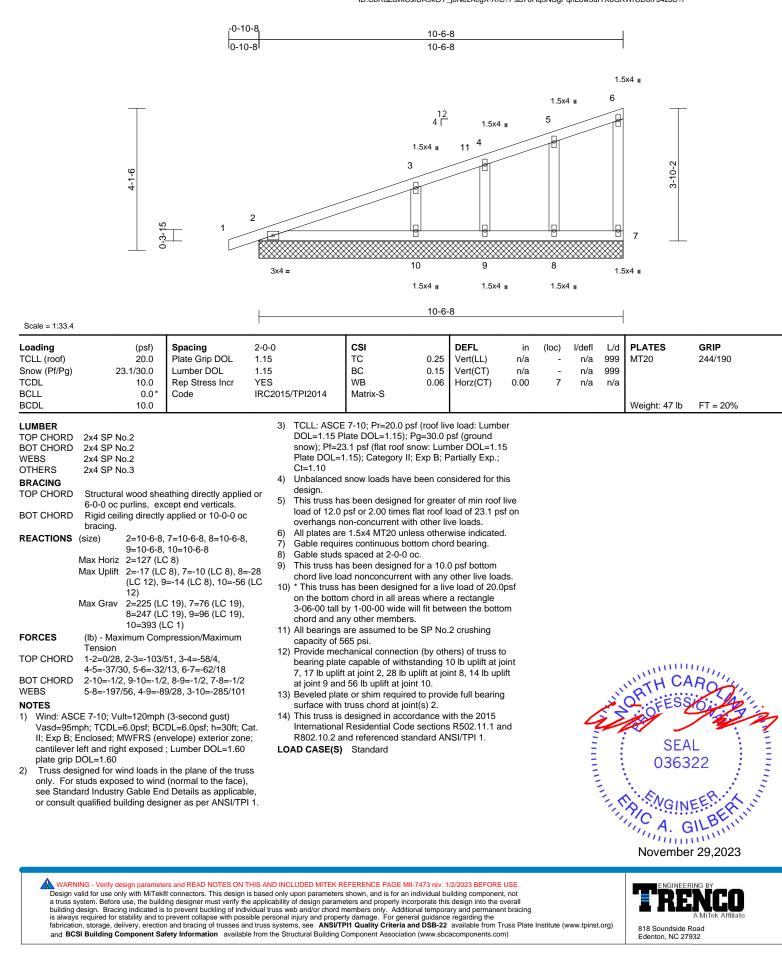


Edenton, NC 27932

Job	Truss Truss Type		Qty	Ply	Bonnet A - Lot 4 - Fairground Farms					
3769891	M01	Monopitch Supported Gable	1	1	Job Reference (optional)	162262414				

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Wed Nov 29 10:07:28 ID:CbRdZdvkCsfUA9kGY_jbNezAcgX-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

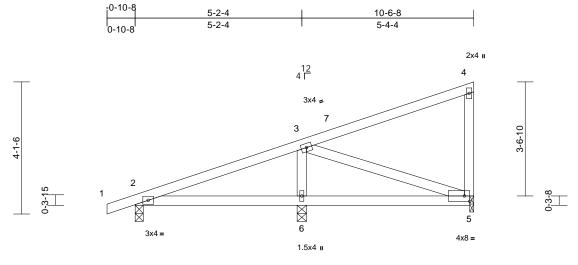
Page: 1

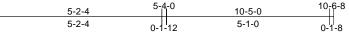


Job	Truss	Truss Type	Qty	Ply	Bonnet A - Lot 4 - Fairground Farms		
3769891	M02	Monopitch	6	1	Job Reference (optional)	162262415	

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries. Inc. Wed Nov 29 10:07:28 ID:SDA0QOS13BnKXqWs1t0cZdzAceX-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:35.9

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL	(psf) 20.0 23.1/30.0 10.0 0.0*	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2015/TPI2014	BC 0	.45 .24 .09	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.02 -0.03 0.00	(loc) 5-6 5-6 5	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20	GRIP 244/190
BCDL	10.0	oode		Matrix 0							Weight: 48 lb	FT = 20%
	6-0-0 oc purlins. Rigid ceiling directly bracing.	C 8), 5=-37 (LC 8), 6= C 1), 5=230 (LC 19), C 19)	 chord live lo 6) * This truss on the bottoo 3-06-00 tall chord and a 7) All bearings capacity of f 8) Bearing at ju using ANSI/ designer sh 9) Provide met bearing plat 58 10) Provide met bearing plat 2, 58 Ib uplit 11) This truss is 	as been designed for a ad nonconcurrent with has been designed for m chord in all areas wi by 1-00-00 wide will fit ny other members. are assumed to be SP 565 psi. bint(s) 5 considers para TPI 1 angle to grain for ould verify capacity of t chanical connection (by e at joint(s) 5. chanical connection (by e capable of withstandi it at joint 6 and 37 lb up designed in accordance	any of a live here a betw No.2 No.2 No.2 No.2 No.2 No.2 No.2 No.2	other live loa a load of 20.0 a rectangle een the botto c crushing b grain value a. Building ng surface. ers) of truss t ers) of truss t 2 lb uplift at j t joint 5. th the 2015	Dpsf om o o o					
TOP CHORD	Tension 1-2=0/29, 2-3=-94/3	3, 3-4=-99/35,	R802.10.2 a LOAD CASE(S)	and referenced standar	d AN	SI/TPI 1.						
BOT CHORD WEBS	4-5=-183/53 2-6=-31/34, 5-6=-31 3-6=-430/126, 3-5=-											
Vasd=95m II; Exp B; I cantilever plate grip I 2) TCLL: AS(DOL=1.15 snow); Pf= Plate DOL Ct=1.10 3) Unbalance design. 4) This truss	CE 7-10; Vult=120mph ph; TCDL=6.0psf; BC Enclosed; MWFRS (er left and right exposed	a (3-second gust) CDL=6.0psf; h=30ft; C twelope) exterior zono ; Lumber DOL=1.60 (roof live load: Lumber =30.0 psf (ground w: Lumber DOL=1.15 xp B; Partially Exp.; even considered for thi r greater of min roof I	e; r ; s						1. Contraction		SEA 0363	A A

- snow); Pf=23.1 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Partially Exp.; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.

818 Soundside Road Edenton, NC 27932

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



GI

11111111 November 29,2023

