

RE: J0425-1939 Lot 20 Turlington Acres Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: Project Name: J0425-1939 Lot/Block: Address: City:

Model: Subdivision: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IRC2021/TPI2014 Wind Code: ASCE 7-16 Roof Load: 40.0 psf Design Program: MiTek 20/20 8.6 Wind Speed: 130 mph Floor Load: N/A psf

This package includes 20 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	172471993	A01	4/2/2025
2	172471994	A02	4/2/2025
3	172471995	A03	4/2/2025
4	172471996	A04	4/2/2025
5	172471997	A05	4/2/2025
6	172471998	A06	4/2/2025
7	172471999	A07	4/2/2025
8	172472000	A08	4/2/2025
9	172472001	A09	4/2/2025
10	172472002	A10	4/2/2025
11	172472003	B01	4/2/2025
12	172472004	B02	4/2/2025
13	172472005	B03	4/2/2025
14	172472006	C01	4/2/2025
15	172472007	C02	4/2/2025
16	172472008	M01	4/2/2025
17	172472009	M02	4/2/2025
18	172472010	M03	4/2/2025
19	172472011	P01	4/2/2025
20	172472012	P02	4/2/2025

The truss drawing(s) referenced above have been prepared by Truss Engineering Co. under my direct supervision

based on the parameters provided by Comtech, Inc - Fayetteville.

Truss Design Engineer's Name: Gilbert, Eric

My license renewal date for the state of North Carolina is December 31, 2025

North Carolina COA: C-0844

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 TRENCO. Any project specific information included is for TRENCO customers file reference purpose only, and was not taken into account in the preparation of these designs. 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.



Gilbert, Eric

Job	Truss	Truss Type Qty		Ply	Lot 20 Turlington Acres	
J0425-1939	A01	Common Supported Gable	1	1	Job Reference (optional)	172471993

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Apr 02 12:49:39 ID:RvDMSG9RRy9VSH_kj01TjqzoXBI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



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00010 - 1.00.0															
Loading		(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIF)
TCLL (roof)		20.0	Plate Grip DOL	1.15		тс	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/1	190
TCDI		10.0	Lumber DOI	1 15		BC	0.03	Vert(CT)	n/a	-	n/a	999	-		
BCLI		0.0*	Rep Stress Incr	YES		WB	0.12	Horz(CT)	0.01	22	n/a	n/a			
BCDL		10.0	Code	IRC2	21/TPI2014	Matrix-S	6.1.2		0.01				Weight: 319	b FT=	25%
LUMBER						Max Grav	2=158 (LC 1), 22	2=158 (LC 1),		1) Unl	balanced	l roof l	ive loads have	e been con	sidered for
TOP CHORD	2x6 SP N	lo.1					24=235 (LC 26),	25=136 (LC	26),	this	design.				
BOT CHORD	2x6 SP N	lo.1					26=165 (LC 1), 2	27=159 (LC 2	6), :	2) Wir	id: ASCI	E 7-16	; Vult=130mpl	n (3-secon	d gust)
OTHERS	2x4 SP N No.2(flat)	lo.2 *Excep	ot* 0-0,0-0,0-0:2x4 SI	PF			28=160 (LC 1), 2 31=162 (LC 26),	29=160 (LC 1 32=162 (LC), 1),	Vas Cat	d=103m . II; Exp	nph; T(C; End	CDL=6.0psf; E closed; MWFF	3CDL=6.0p RS (envelo	osf; h=15ft; pe) and C-C
BRACING	. ,						33=161 (LC 22),	34=162 (LC	1),	Co	ner(3E)	-0-8-1	0 to 3-8-3, Ex	terior(2N)	3-8-3 to
TOP CHORD	Structura	l wood she	athing directly applie	ed or			36=162 (LC 25),	37=160 (LC	1),	19-	0-0, Cor	ner(3R	१) 19-0-0 to 23	3-4-13, Ext	erior(2N)
	6-0-0 oc	purlins.					38=160 (LC 1), 3	39=159 (LC 2	5),	23-	4-13 to 3	38-8-10	0 zone;C-C fo	r members	s and forces &
BOT CHORD	Structura	I wood she	athing directly applie	ed or			40=165 (LC 1), 4	41=136 (LC 2	5),	MM	/FRS for	reacti	ons shown; L	umber DO	L=1.60 plate
	10-0-0 oc	bracing.					42=235 (LC 25)			grip	DOL=1	.60			6 AL .
WEBS	T-Brace:		2x4 SPF No.2 - 12-3	33,	FORCES	(lb) - Maxi Tension	mum Compressi	on/Maximum		3) Tru onl	ss desig /. For st	ned fo tuds ex	r wind loads ii xposed to win	n the plane d (normal t	e of the truss to the face),
	Easten (2	X) Tand I	braces to parrow ed	an	TOP CHORD	1-2=0/13.	2-3=-186/92. 3-4	=-115/76.		see	Standa	rd Indu	Jstry Gable Er	nd Details a	as applicable,
	of web wi	ith 10d (0 1	31"x3") nails 6in	ige		4-5=-94/76	6, 5-6=-86/87, 6-	8=-78/132,		or o	onsult q	ualifie	d building des	igner as po	er ANSI/TPI 1.
	o.cwith	3in minimu	m end distance.			8-9=-73/18	39, 9-10=-93/248	, 10-11=-116	/310, '	4) All	plates ar	e 2x4	MT20 unless	otherwise	indicated.
	Brace m	nust cover 9	90% of web length.			11-12=-13	0/350, 12-13=-13	30/350,		5) Gal	ole requi	res co	ntinuous botto	om chord b	earing.
REACTIONS	(size)	2=38-0-0.	22=38-0-0. 24=38-0)-0.		13-14=-11	6/310, 14-15=-93	3/248,		5) Gal	ole stude	s space	ed at 2-0-0 oc	4	
	()	25=38-0-0), 26=38-0-0, 27=38-	-0-0,		15-16=-73	/189, 16-18=-53/	/132,		7) Thi	s truss h	as bee	en designed fo	or a 10.0 ps	sf bottom
		28=38-0-0	0, 29=38-0-0, 31=38-	-0-0,		18-19=-48	/74, 19-20=-55/2	4, 20-21=-74	/24,	chc	rd live lo	ad no	nconcurrent w	/ith any oth	her live loads.
		32=38-0-0	0, 33=38-0-0, 34=38	-0-0,		21-22=-16	4/63, 22-23=0/1	3		3) î li	nis truss	has be	en designed	for a live lo	bad of 20.0pst
		36=38-0-0	0, 37=38-0-0, 38=38-	-0-0,	BOT CHORD	2-42=-55/2	216, 41-42=-55/2	16, /04.0		2.0			nu in all areas	fit botwoo	eclangle
		39=38-0-0	0, 40=38-0-0, 41=38-	-0-0,		40-41=-55	/216, 39-40=-55/	216,		S-U cho	rd and a	Dy 2-0	or members	This betwee	
		42=38-0-0)			36 27 55	210, 37-30=-33	210,		CITC			er members.		
	Max Horiz	2=128 (LC	C 11)			33-3455	/210, 34-30=-55/	210,						IIIIIII	
	Max Uplift	2=-13 (LC	28), 24=-55 (LC 13),			31-32=-55	/216 29-31=-55	210, /216					N'HC	ARO	111
		25=-29 (L	.C 13), 26=-34 (LC 1	3),		28-29=-55	/216, 27-28=-55/	216,				1	a	19	City.
		27=-34 (L	C 13), 28=-33 (LC 1)	3),		26-27=-55	/216, 25-26=-55/	216.				1.	O' EE	Sid	4
		29=-34 (L	C 13), 31=-42 (LC 1)	3),		24-25=-55	/216. 22-24=-55/	216			6	25	10	ZV	isin
		32=-10 (L	C 13), 34=-16 (LC 1. C 12), 37- 34 (LC 1.	2), 2)	WEBS	12-33=-18	2/27, 11-34=-12	2/64,			1			2	
		30=-40 (L 3833 (l	C 12), 37=-34 (LC 1. C 12) 3934 (LC 1.	2), 2)		10-36=-12	2/119, 9-37=-12	0/106,			-				: =
		40=-34 (L	C 12), 33=-34 (LC 1) C 12) 41=-29 (LC 1)	2), 2)		8-38=-120	/105, 6-39=-120/	/105,			=		St	-AL	
		42=-56 (I	C 12), 112 20 (20 1) C 12)	_),		5-40=-122	/107, 4-41=-106/	/94,					036	322	- E E -
						3-42=-167	/218, 13-32=-12	2/64,			-		: 000	JULL	1 E
						14-31=-12	2/119, 15-29=-12	20/106,			-	-	N		1 2
						16-28=-12	0/105, 18-27=-12	20/105,				2.	A.E.	A	· 1
						19-26=-12	2/107, 20-25=-10	Jb/94,				25	S. GI	NEE	AS
						21-24=-16	1/217					11	10 ···	- D	E'n'
					NOTES								11, A.	GILU	111
														mm	2010

April 2,2025

Page: 1

Continued on page 2 WARNING - Verify

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent ouckling of trusses and truss systems, see **ANSI/TPI Quality Criteria and DSE2** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	rpe Qty P		Lot 20 Turlington Acres	170 171 000
J0425-1939	A01	Common Supported Gable	1	1	Job Reference (optional)	1/24/1993

- All bearings are assumed to be SP No.1 crushing 9) capacity of 565 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 34, 40 lb uplift at joint 36, 34 lb uplift at joint 37, 33 lb uplift at joint 38, 34 lb uplift at joint 39, 34 lb uplift at joint 40, 29 lb uplift at joint 41, 56 lb uplift at joint 42, 10 lb uplift at joint 32, 42 lb uplift at joint 31, 34 lb uplift at joint 29, 33 lb uplift at joint 28, 34 lb uplift at joint 27, 34 lb uplift at joint 26, 29 lb uplift at joint 25, 55 lb uplift at joint 24 and 13 lb uplift at joint 2.
- 11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

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Page: 2

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Job	Truss	Truss Type	Qty	Ply	Lot 20 Turlington Acres	
J0425-1939	A02	Common	4	1	Job Reference (optional)	172471994

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Apr 02 12:49:40

Page: 1



2) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-10 to 3-8-3, Interior (1) 3-8-3 to 19-0-0, Exterior(2R) 19-0-0 to 23-4-13, Interior (1) 23-4-13 to 38-8-10 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 4) * 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.
- 5) All bearings are assumed to be SP No.1 crushing capacity of 565 psi.



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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 20 Turlington Acres	
J0425-1939	A03	Common	2	1	Job Reference (optional)	172471995

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Scale = 1:69.3	Scale = 1:69.3											
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	0.32	Vert(LL)	-0.19	15-18	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.35	15-18	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.07	8	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.08	15-18	>999	240	Weight: 261 lb	FT = 25%
LUMBER			6) All bearings	are assumed to	be SP No.	1 crushing						
TOP CHORD	ORD 2x6 SP No.1 capacity of 565 psi.											
	OVC CD No. 4	No.1 7) One PT3A MiTek connectors recommended to connect										

BOT CHORD 2x6 SP No.1

WEBS	2x4 SP No.2 *Except* 14-12:2x6 SP No.1
BRACING	
TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Structural wood sheathing directly applied.
REACTIONS	(size) 2=0-3-8, 8=0-3-8

- Max Horiz 2=-128 (LC 10) Max Uplift 2=-2 (LC 12), 8=-2 (LC 13) Max Grav 2=1838 (LC 2), 8=1839 (LC 2) FORCES (Ib) - Maximum Compression/Maximum
- Tension TOP CHORD 1-2=0/19, 2-3=-3135/344, 3-5=-2904/363, 5-7=-2906/363, 7-8=-3137/344, 8-9=0/19 BOT CHORD 2-15=-178/2801. 10-15=0/1855. 8-10=-175/2755

WEBS

NOTES

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

5-10=-27/1262, 7-10=-571/325, 5-15=-27/1259. 3-15=-571/325

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-10 to 3-8-3, Interior (1) 3-8-3 to 19-0-0, Exterior(2R) 19-0-0 to 23-4-13, Interior (1) 23-4-13 to 38-8-10 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 200.0lb AC unit load placed on the bottom chord, 19-0-0 from left end, supported at two points, 5-0-0 apart. 4) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf 5) 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.

- One RT3A MITek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 8. This connection is for uplift only and does not consider lateral forces.
- This truss design requires that a minimum of 7/16" 8) structural wood sheathing be applied directly to the top
 - chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- LOAD CASE(S) Standard



818 Soundside Road

Edenton, NC 27932

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Job	Truss	Truss Type	Qty	Ply	Lot 20 Turlington Acres	
J0425-1939	A04	Common	1	1	Job Reference (optional)	172471996

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Apr 02 12:49:41



Scale = 1:71

Plate Offsets (X, Y): [8:Edge,0-1-9]

												_			
Loa	ding	(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCL	L (roof)	20.0	Plate Grip DOL	1.15		TC	0.31	Vert(LL)	-0.18	14-17	>999	360	MT20	244/190	
TCD	L	10.0	Lumber DOL	1.15		BC	0.74	Vert(CT)	-0.34	14-17	>999	240			
BCL	L	0.0*	Rep Stress Incr	YES		WB	0.34	Horz(CT)	0.07	8	n/a	n/a			
BCD	L	10.0	Code	IRC2021	/TPI2014	Matrix-AS		Wind(LL)	0.07	14-17	>999	240	Weight: 258 lb	FT = 25%	
LUN TOP BOT WEE BRA TOP BOT REA	IBER CHORD CHORD 3S CING CHORD CHORD CHORD CHORD	2x6 SP No.1 2x6 SP No.1 2x4 SP No.2 Structural wood shea Structural wood shea (size) 2=0-3-8, 8 Max Horiz 2=131 (LC	athing directly applie athing directly applie = Mechanical : 9)	6) 7) 8) d. d. 9)	Bearings are capacity of 5 Refer to gird One RT3A M truss to beari connection is forces. This truss de structural wo chord and 1/2	assumed to be: J 65 psi. er(s) for truss to tri iTek connectors r ing walls due to U for uplift only and sign requires that od sheathing be a 2" gypsum sheetro	oint 2 SF uss conr ecomme PLIFT at does no a minim pplied di ock be ap	P No.1 crush nections. nded to conr jt(s) 2. This ot consider la um of 7/16" rectly to the oplied directl	ing nect ateral top y to						
		Max Oplint $2=-2$ (LC 1 Max Gray $2=1825$ (LC	Z) C 2) 8–1702 (C 2)		the bottom cl	nord.									
FOR FOP BOT WEE	CHORD CHORD CHORD	(lb) - Maximum Com Tension 1-2=0/19, 2-3=-3111, 5-7=-2828/361, 7-8= 2-14=-207/2774, 9-1. 8-9=-186/2664 5-14=-27/1268, 3-14. 5-9=-20/1187, 7-9=-5	/342, 3-5=-2881/360 -3074/343 4=-48/1831, =-568/325, 535/321	LC),	AD CASE(S)	Standard									
тои	ES														
I)	Unbalance this desigr	ed roof live loads have	been considered for										min	11.	
<u>2)</u>	Wind: ASC Vasd=103 Cat. II; Exp Exterior(2I Exterior(2I 37-8-8 zor reactions s DOL=1.60 200.0lb AC	CE 7-16; Vult=130mph mph; TCDL=6.0psf; BC p C; Enclosed; MWFRS p -0-8-10 to 3-8-3, Inte R) 19-0-0 to 23-4-13, Ir he;C-C for members an shown; Lumber DDL=1 C unit load placed on th	(3-second gust) DL=6.0psf; h=15ft; S (envelope) and C-(ritor (1) 3-8-3 to 19-(hterior (1) 23-4-13 to d forces & MWFRS .60 plate grip he bottom chord, 19-	C D-0, for 0-0							Contraction of the second seco	ALL A	SEA		

- from left end, supported at two points, 5-0-0 apart.
- This truss has been designed for a 10.0 psf bottom 4) chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 5) 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 = 10.0 psf.

G mmm April 2,2025

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Job	Truss	Truss Type	Qty	Ply	Lot 20 Turlington Acres	
J0425-1939	A05	Common	2	1	Job Reference (optional)	172471997

9-10-2

9-10-2

612 61

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Apr 02 12:49:41 ID:RvDMSG9RRy9VSH_kjO1TjqzoXBI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Plate Offsets	(X.	Y):	[8:Edae.0-1-9]	
	(×,	•)•		

Loading	(psf)	Spacing	2-3-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15		TC	0.50	Vert(LL)	-0.21	14-20	>999	360	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15		BC	0.98	Vert(CT)	-0.39	14-20	>999	240			
BCLL	0.0*	Rep Stress Incr	NO		WB	0.38	Horz(CT)	0.08	8	n/a	n/a			
BCDL	10.0	Code	IRC2021/T	PI2014	Matrix-MS		Wind(LL)	0.09	14-20	>999	240	Weight: 258 lb	FT = 25%	
LUMBER			5) *	This truss ha	as been designed	l for a liv	e load of 20.	0psf						
TOP CHORD	2x6 SP No.1		0	on the bottom	chord in all area	s where	a rectangle							
BOT CHORD	2x6 SP No.1		3	8-06-00 tall by	y 2-00-00 wide wi	II fit betw	/een the bott	om						
WEBS	2x4 SP No.2		C) E	nord and an	y other members,	WILLI BU	DL = 10.0ps	l. ing						
BRACING			0) E	searings are	assumed to be. J		- NO. I CIUSII	ing						
TOP CHORD	Structural wood she	eathing directly applie	ed or 7) F	apacity of 50	ur(e) for trues to tru		ections							
	3-9-0 oc purlins.		. 8) (De PT3A Mi	Tek connectors r		nded to conr	heat						
BOT CHORD	Structural wood she	eathing directly applie	ed or 0, C	russ to bearir	na walls due to I ll	PLIFT at	it(s) 2 This	iect						
	10-0-0 oc bracing.			connection is	for unlift only and	l does no	ot consider la	teral						
REACTIONS	(size) 2=0-3-8,	8= Mechanical	f	orces.	ior apint only and									
	Max Horiz 2=148 (L	C 9)	104	D CASE(S)	Standard									
	Max Uplift 2=-15 (LO	C 12)		2 0/102(0)	otandara									
	Max Grav 2=2040 (LC 2), 8=2003 (LC 2)											
FORCES	(lb) - Maximum Cor	npression/Maximum												
	Tension		_											
TOP CHORD	1-2=0/22, 2-3=-347	//415, 3-5=-3218/43	5,											
	5-7=-3158/436, 7-8	=-3436/416												
BOICHORD	2-14=-260/3100, 9-	14=-64/2037,												
WERS	0-9=-230/29/9 5 14- 52/1425 2 1	4- 646/271												
WEB3	5-0-14=-52/1425, 5-1	4=-040/371, -613/367												
NOTES	0 0 - ++/1002, 1 0 -	010/001												
1) Unbalance	ed roof live loads have	been considered fo	r										1111	
this desig	n										13	IN TH CA	Roit	
 Wind: ASI 	 CF 7-16 [.] Vult=130mpl	a (3-second aust)									15	A	2 /11	11
Vasd=103	Bmph: TCDL=6.0psf: E	CDL=6.0psf: h=15ft:									22	Jaco -	Div	in
Cat. II: Ex	C: Enclosed: MWFF	(envelope) and C-	C							7		19 10	19.	
Exterior(2	E) -0-8-10 to 3-8-3, In	terior (1) 3-8-3 to 19-	0-0,							-		. C.		-
Exterior(2	R) 19-0-0 to 23-4-13,	Interior (1) 23-4-13 to)								:	SEA	í 3	. =
37-8-8 zo	ne;C-C for members a	nd forces & MWFRS	for							=	:	JLA	- :	: =
reactions	shown; Lumber DOL=	1.60 plate grip								1		0363	22 :	
DOL=1.60	0									-	i d			3
3) 200.0lb A	C unit load placed on	the bottom chord, 19	-0-0							-	-	1. A.		5
from left e	end, supported at two	points, 5-0-0 apart.									10	A. SNOW	-FR. X	
4) This truss	has been designed fo	or a 10.0 psf bottom									1	S. GIN	5	5
chord live	load nonconcurrent w	ith any other live load	ds.								1	C	"BEN	6 C

G minin April 2,2025

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/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BC2E Building Component Schut beformation, available from the Structure Building Component Advanciation (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	Lot 20 Turlington Acres	
J0425-1939	A06	Common	1	1	Job Reference (optional)	172471998

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Apr 02 12:49:41 ID:RvDMSG9RRy9VSH_kjO1TjqzoXBI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:69.1

Plate Offsets (X, Y): [8:Edge,0-1-1]												
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 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 IRC2021	/TPI2014	CSI TC BC WB Matrix-MS	0.40 0.65 0.35	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.21 -0.41 0.05 0.09	(loc) 13-19 13-19 8 13-19	l/defl >999 >632 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 239 lb	GRIP 244/190 FT = 25%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x6 SP No.1 2x6 SP No.1 2x4 SP No.2 Structural wood shea 4-4-14 oc purlins. Structural wood shea 10-00 oc bracing. (size) 2=0-3-8, 8 Max Horiz 2=131 (LC Max Uplift 2=-107 (LC Max Grav 2=1575 (L	athing directly applie athing directly applie 3= Mechanical, 11=0 2 9) C 12), 8=-100 (LC 1: .C 2), 8=1481 (LC 2)	4) 5) d or -3-8 3) , LO	* This truss h on the bottor 3-06-00 tall b chord and ar Bearings are capacity of 5 of 565 psi. Refer to gird One RT3A M truss to bear This connect lateral forces AD CASE(S)	has been design in chord in all ar by 2-00-00 wide assumed to be 65 psi, Joint 11 er(s) for truss to liTek connector ing walls due to ion is for uplift o Standard	ted for a live eas where a will fit betw rrs, with BC :: Joint 2 SF SP No.1 cr or truss conn s recomme UPLIFT at only and door	e load of 20. a rectangle een the bott DL = 10.0ps No.1 crushi ushing capa ections. nded to conr jt(s) 2 and 1 es not consid	Opsf om f. ing city nect 1. der					
FORCES	(lb) - Maximum Com	pression/Maximum											
TOP CHORD	1-2=0/19, 2-3=-2541 5-7=-2123/561 7-8=	/546, 3-5=-2308/565 -2354/542	5,										
BOT CHORD	2-13=-392/2275, 11-	13=-139/1423, 											
WEBS	5-13=-146/1060, 3-1 7-9=-570/320, 5-9=-	3=-590/325, 121/778											9.55

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-10 to 3-8-3, Interior (1) 3-8-3 to 19-0-0, Exterior(2R) 19-0-0 to 23-4-13, Interior (1) 23-4-13 to 37-8-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

toron number SEAL 036322 G mmm

April 2,2025

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Job	Truss	Truss Type	Qty	Ply	Lot 20 Turlington Acres	
J0425-1939	A07	Roof Special	6	1	Job Reference (optional)	471999

Run; 8.63 S Sep 26 2024 Print; 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Apr 02 12:49:41 ID:RvDMSG9RRy9VSH_kjO1TjqzoXBI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:72.6

WFBS

REACTIONS

FORCES

WEBS

NOTES

2)

3)

TOP CHORD

BOT CHORD

this design.

DOL=1.60

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

1 Row at midpt

Max Horiz 2=136 (LC 9)

(size)

Max Grav

Tension

5-12, 7-12

2=740 (LC 27), 9=265 (LC 26),

Max Uplift 2=-104 (LC 12), 9=-41 (LC 13),

12=-44 (LC 13)

12=2470 (LC 2)

(lb) - Maximum Compression/Maximum

1-2=0/19, 2-3=-811/261, 3-5=-568/299, 5-7=-31/1020, 7-8=-66/485

2-14=-204/669. 12-14=-402/154. 8-12=-373/0, 8-9=0/0

3-14=-599/317, 5-14=-199/1090. 5-12=-1649/363, 7-12=-718/358

1) Unbalanced roof live loads have been considered for

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

Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft;

Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-10 to 3-8-3, Interior (1) 3-8-3 to 19-0-0,

Exterior(2R) 19-0-0 to 23-4-13, Interior (1) 23-4-13 to

36-8-14 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip

chord live load nonconcurrent with any other live loads.

This truss has been designed for a 10.0 psf bottom

2=0-3-8, 9= Mechanical, 12=0-3-8

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	0.41	Vert(LL)	-0.16	14-17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15		BC	0.43	Vert(CT)	-0.32	14-17	>816	240		
BCLL	0.0*	Rep Stress Incr	YES		WB	0.71	Horz(CT)	0.01	9	n/a	n/a		
BCDL	10.0	Code	IRC2021	/TPI2014	Matrix-AS		Wind(LL)	0.07	14-17	>999	240	Weight: 267 lb	FT = 25%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x6 SP No.1 2x6 SP No.1 *Excep 2x4 SP No.2 Structural wood shea Structural wood shea	t* 13-10:2x10 SP No athing directly applie athing directly applie	4) 5.1 5) ed.	* This truss h on the bottor 3-06-00 tall h chord and ar Bearings are capacity of 5 of 565 psi.	has been design n chord in all are by 2-00-00 wide by other member assumed to be: 65 psi, Joint 12	ed for a live eas where will fit betw rs, with BC : Joint 2 SF SP No.1 cr	e load of 20.0 a rectangle veen the both DL = 10.0ps No.1 crushi ushing capa	Opsf om f. ing city					

- 6) Refer to girder(s) for truss to truss connections.
- One RT3A MiTek connectors recommended to connect 7) truss to bearing walls due to UPLIFT at jt(s) 12 and 2. This connection is for uplift only and does not consider lateral forces.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard

0 MALLIN HILL SEAL 036322 G mm April 2,2025

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 and the second design much reacting of design and the second design much reacting and and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

Job	Truss	Truss Type	Qty	Ply	Lot 20 Turlington Acres	
J0425-1939	A08	Roof Special	2	1	Job Reference (optional)	172472000

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Apr 02 12:49:41 ID:RvDMSG9RRy9VSH_kjO1TjqzoXBI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:72.6

Plate Offsets (X, Y): [11:0-3-0,0-3-0]

Loading TCLL (roof) TCDL BCLL	(psf) 20.0 10.0 0.0*	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES		CSI TC BC WB	0.50 0.60 0.43	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.21 -0.40 0.06	(loc) 12-18 12-18 9	l/defl >999 >999 n/a	L/d 360 240 n/a	PLATES MT20	GRIP 244/190	
BCDL	10.0	Code	IRC2021/	TPI2014	Matrix-AS		Wind(LL)	0.11	12-18	>999	240	Weight: 281 lb	FT = 25%	
BCDL LUMBER TOP CHORD BOT CHORD BOT CHORD BOT CHORD WEBS REACTIONS FORCES TOP CHORD BOT CHORD BOT CHORD WEBS NOTES 1) Unbalance this design 2) Wind: ASC Vasd=103/ Cat. II; Exy Exterior(2E S6-2-0 zon reactions 2 DOL=1.60 3) This truse	10.0 2x6 SP No.1 2x10 SP 2400F 2.0E No.1, 13-10:2x10 SP 2x4 SP No.2 Structural wood sheat 1 Row at midpt (size) 2=0-3-8, 9 Max Horiz 2=139 (LC Max Uplift 2=-101 (LC Max Grav 2=1708 (L (lb) - Maximum Com, Tension 1-2=0/19, 2-3=-2839 5-7=-2304/509, 7-8= 2-14=-426/2531, 12- 8-12=-473/2494, 8-9 3-14=-578/312, 7-12 5-12=-39/899, 5-14= ed roof live loads have b CE 7-16; Vult=130mph mph; TCDL=6.0psf; BC 0 C; Enclosed; MWFR8 E) -0-8-10 to 3-8-3, Inte e;C-C for members and shown; Lumber DOL=1 has been designed for	Code *Except* 13-2:2x6 S No.1 athing directly applied athing directly applied r-12 = Mechanical (2) C 12), 9=-52 (LC 13) C 2), 9=-625 (LC 2) pression/Maximum /561, 3-5=-2637/599 -3162/632 14=-174/1710, =0/0 =-721/362, -180/1033 been considered for (3-second gust) CDL=6.0psf; h=15ft; S (envelope) and C-C arior (1) 3-8-3 to 19-C therior (1) 23-4-13 to d forces & MWFRS .60 plate grip a 10 0 psf bottom	IRC2021/ 5) 5P 6) 7) 5J 8) 5J 8) LOA , ,	TPI2014 Bearings are capacity of 50 Refer to girde One RT3A M truss to beari connection is forces. This truss de structural woo chord and 1/2 the bottom ch AD CASE(S)	Matrix-AS assumed to be: Jo 55 psi. er(s) for truss to tru Tek connectors re ng walls due to UF for uplift only and sign requires that of sheathing be a 2" gypsum sheetro ord. Standard	pint 2 SF uss conre PLIFT at does no a minim pplied di pock be ap	Wind(LL) P No.1 crushin nded to conn jt(s) 2. This ot consider lat um of 7/16" rectly to the t opplied directly	0.11 ng ect teral op r to	12-18	>999	240	Weight: 281 lb	FT = 25%	A A A A A A A A A A A A A A A A A A A
chord live 4) * This truss	load nonconcurrent wit s has been designed for	th any other live load or a live load of 20.0p	s. osf									S. ENGINE	ERA	11 Contraction of the second s
on the bott 3-06-00 tal chord and	tom chord in all areas v Il by 2-00-00 wide will f any other members, w	where a rectangle fit between the bottor rith BCDL = 10.0psf.	n								11	CA. G	ILBEIT	

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April 2,2025

Job	Truss	Truss Type	Qty	Ply	Lot 20 Turlington Acres	
J0425-1939	A09	Common	1	1	Job Reference (optional)	172472001

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Apr 02 12:49:41 Page: 1 ID:RvDMSG9RRy9VSH_kjO1TjqzoXBI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f -0-10-8 9-10-2 19-0-0 28-1-14 37-8-8 0-10-8 9-10-2 9-1-14 9-1-14 9-6-10 6x6= 5 12 6 20 21 2x4 / 4x8 -4x8👟 2x4、 3 ⁴ 6₇ 10-3-8 10-1 22 19 0-7-8 5 T. 23 24 12 2511 26 10 9 27 28 4x6= 4x8= 4x4 =4x8= 4x6 =4x4= 12-10-12 25-1-4 37-8-8 12-10-12 12-2-7 12-7-4 Scale = 1:69.1 Loading 2-0-0 CSI DEFL l/defl L/d PLATES GRIP (psf) Spacing in (loc) TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.39 Vert(LL) -0.21 9-12 >999 360 MT20 244/190 BC TCDI 10.0 1 15 0.71 Vert(CT) Lumber DOL -0.35 12-15 >999 240 BCLL 0.0* Rep Stress Incr YES WB 0.34 Horz(CT) 0.07 8 n/a n/a

LUMBER TOP CHORD 2x6 SP No.1 2x6 SP No.1 BOT CHORD 2x4 SP No.2 WEBS BRACING TOP CHORD Structural wood sheathing directly applied or 4-2-4 oc purlins. BOT CHORD Structural wood sheathing directly applied or 10-0-0 oc bracing. **REACTIONS** (size) 2=0-3-8, 8= Mechanical Max Horiz 2=131 (LC 9) Max Uplift 2=-102 (LC 12), 8=-90 (LC 13) Max Grav 2=1732 (LC 2), 8=1697 (LC 2) FORCES (Ib) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/19, 2-3=-2914/566, 3-5=-2683/585, 5-7=-2633/583, 7-8=-2881/564 2-12=-406/2599, 9-12=-151/1695, BOT CHORD 8-9=-382/2494 WEBS

10.0

Code

5-12=-151/1172, 3-12=-581/325, 5-9=-139/1095, 7-9=-553/319

NOTES

BCDL

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-8-10 to 3-8-3, Interior (1) 3-8-3 to 19-0-0, Exterior(2R) 19-0-0 to 23-4-13, Interior (1) 23-4-13 to 37-8-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf 4) 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.

Bearings are assumed to be: Joint 2 SP No.1 crushing 5) capacity of 565 psi.

Wind(LL)

0.08

12-15

>999

240

Weight: 239 lb

FT = 25%

6) Refer to girder(s) for truss to truss connections.

Matrix-MS

- One RT3A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces
- LOAD CASE(S) Standard

IRC2021/TPI2014



-9-4

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 20 Turlington Acres	
J0425-1939	A10	Common Supported Gable	1	1	Job Reference (optional)	172472002

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Apr 02 12:49:41 ID:RvDMSG9RRy9VSH_kjO1TjqzoXBI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:69.1

Loading		(psf)	Spacing	2-0-0		CSI		DEFL	in	(lc	ic) l/de	fl L/	d PLATES	GI	RIP
TCLL (roof)		20.0	Plate Grip DOL	1.15		TC	0.05	Vert(LL)	n/a		- n/	a 99	9 MT20	24	14/190
TCDL		10.0	Lumber DOL	1.15		BC	0.03	Vert(CT)	n/a		- n/	a 99	Э		
BCLL		0.0*	Rep Stress Incr	YES		WB	0.12	Horz(CT)	0.01	:	22 n/	a n/	a		
BCDL		10.0	Code	IRC2	021/TPI2014	Matrix-S						_	Weight: 31	6 lb FT	Г = 25%
LUMBER						Max Grav 2=1	58 (LC 1), 2	2=102 (LC 22),	1)	Unbalan	ed roo	f live loads ha	ve been c	considered for
TOP CHORD	2x6 SP N	o.1				23=	223 (LC 26)	24=141 (LC	26),		this desig	jn.			
BOT CHORD	2x6 SP N	0.1				25=	164 (LC 1), 2	26=159 (LC 2	6),	2)	Wind: AS	CE 7-1	6; Vult=130m	ph (3-sec	cond gust)
OTHERS	2x4 SP N No.2(flat)	o.2 *Excep	t* 0-0,0-0,0-0:2x4 SI	⊃F		27= 30=	160 (LC 1), 2 162 (LC 26),	28=160 (LC 1 31=162 (LC), 1),		Vasd=10 Cat. II; E	3mph; xp C; E	TCDL=6.0psf; nclosed; MWF	BCDL=6 RS (env	.0psf; h=15ft; elope) and C-C
BRACING						32=	160 (LC 22),	33=162 (LC	25),		Corner(3	E) -0-8	-10 to 3-8-3, E	xterior(2)	N) 3-8-3 to
TOP CHORD	Structura	l wood shea ourlins	athing directly applie	d or		35= 37=	162 (LC 25) 160 (LC 1), 3	36=160 (LC 38=159 (LC 2	1), 5),		19-0-0, 0 23-4-13 1	orner(3 o 37-8-	3R) 19-0-0 to 2 8 zone;C-C fo	23-4-13, E or membe	Exterior(2N) ers and forces &
BOT CHORD	Structura	l wood shea	athing directly applie	d or		39= 41=	165 (LC 1), 235 (LC 25)	40=136 (LC 2	5),		MWFRS grip DOL	for rea =1.60	ctions shown;	Lumber D	DOL=1.60 plate
WEBS	T-Brace:	biacing.	2x4 SPF No.2 - 12-3	32,	FORCES	(lb) - Maximun	n Compressi	on/Maximum		3)	Truss de	signed	for wind loads	in the pland (norm	ane of the truss
	Fasten (2 of web wi o.c.,with 3 Brace m	2X) T and I th 10d (0.1 3in minimur hust cover 9	11-33, 13-31 braces to narrow ec 31"x3") nails, 6in n end distance. 00% of web length.	lge	TOP CHORD	1-2=0/13, 2-3= 4-5=-94/74, 5- 8-9=-72/187, 9 11-12=-129/34	191/90, 3-4 6=-87/85, 6- 9-10=-92/245 48, 12-13=-12	-=-117/74, 8=-78/129, 5, 10-11=-115 29/348,	/308,	4) 5)	see Stan or consu All plates Gable re	dard In t qualif are 2x quires (dustry Gable I ied building de 4 MT20 unles continuous bot	End Detai signer as s otherwi ttom chor	ils as applicable, s per ANSI/TPI 1. se indicated. d bearing.
REACTIONS	o.c., with 3in minimum end distance. Brace must cover 90% of web length. 5 (size) 2=37-8-8, 22=37-8-8, 22=37-8-8, 24=37-8-8, 22=37-8-8, 26=37-8-8, 31=37-8-8, 32=37-8-8, 31=37-8-8, 32=37-8-8, 33=37-8-8, 33=37-8-8, 33=37-8-8, 33=37-8-8, 33=37-8-8, 33=37-8-8, 33=37-8-8, 33=37-8-8, 33=37-8-8, 33=37-8-8, 33=37-8-8, 41=37-8-8 Max Horiz 2=129 (LC 9) Max Uplift 2=-13 (LC 8), 23=-61 (LC 13), 24=-29 (LC 13), 25=-34 (LC 13), 26=-34 (LC 13), 26=-34 (LC 13), 26=-34 (LC 13), 31=-10 (LC 13), 33=-16 (LC 12), 35=-40 (LC 12), 35=-40 (LC 12), 35=-34 (LC 12), 37=-33 (LC 12), 38=-34 (LC 12), 39=-34 (LC 12), 39=-34 (LC 12), 41=-56 (LC 12)				BOT CHORD	$\begin{array}{l} 11-12=-129/348, 12-13=-129/348, \\ 13-14=-115/308, 14-15=-92/245, \\ 15-16=-72/187, 16-18=-52/129, \\ 18-19=-49/72, 19-20=-57/23, 20-21=-76/25, \\ 21-22=-189/64 \\ 0 \ 2-41=-54/211, 40-41=-54/211, 39-40=-54/211, \\ 38-39=-54/211, 37-38=-54/211, \\ 33-35=-54/211, 37-38=-54/211, \\ 33-35=-54/211, 32-33=-54/211, \\ 33-35=-54/211, 30-31=-54/211, \\ 28-30=-54/211, 27-28=-54/211, \\ 28-30=-54/211, 27-28=-54/211, \\ 26-27=-54/211, 22-28=-54/211, \\ 24-25=-54/211, 22-28=-54/211, \\ 22-23=-54/211, 23-24=-54/211, \\ 22-23=-54/211, 23-24=-54/211, \\ 22-23=-54/211, 23-24=-54/211, \\ 22-23=-54/211, 23-24=-54/211, \\ 22-32=-180/26, 11-33=-122/65, \\ 10-35=-122/119, 9-36=-120/106, \\ 8-37=-120/105, 6-38=-120/105, \\ 5-39=-122/107, 4-40=-106/94, \\ \end{array}$					This trus chord liv. * This tru on the bc 3-06-00 f chord an	s has be e load r ss has b bittom cl all by 2 d any c	een designed nonconcurrent been designe oord in all area -00-00 wide w ther members	CAR CAR EAL 6322) psf bottom other live loads. e load of 20.0psf a rectangle veen the bottom
					NOTES	16-27=-120/10 19-25=-122/10 21-23=-160/23	05, 18-26=-1: 07, 20-24=-1 37	20/105, 09/109,				in the	CRIC A	GIL	BERT

April 2,2025

Page: 1

Continued on page 2 WARNING - Verify

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Job	Truss	Truss Type	Qty	Ply	Lot 20 Turlington Acres	170 (70000
J0425-1939	A10	Common Supported Gable	1	1	Job Reference (optional)	172472002

9) All bearings are assumed to be SP No.1 crushing

- All bearings are assumed to be struct, rotating capacity of 565 psi.
 One RT3A MiTek connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 32, 33, 35, 36, 37, 38, 39, 40, 41, 31, 30, 28, 27, 26, 25, 24, 23, 2, and 22. This connection is for uplift only and does not consider lateral forces. consider lateral forces.
- 11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Apr 02 12:49:41 ID:RvDMSG9RRy9VSH_kjO1TjqzoXBI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 2

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Job	Truss	Truss Type	Qty	Ply	Lot 20 Turlington Acres	
J0425-1939	B01	Common Structural Gable	1	1	Job Reference (optional)	172472003

Scale = 1:71.4

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Apr 02 12:49:42 ID:RvDMSG9RRy9VSH_kjO1TjqzoXBI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



	(,,, ,). [<u></u> age,e e .],			-90]									
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 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 IRC202 ⁻	1/TPI2014	CSI TC BC WB Matrix-AS	0.45 0.38 0.86	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.13 -0.31 0.14 0.12	(loc) 27-28 27-28 14 27-28	l/defl >999 >797 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 215 lb	GRIP 244/190 FT = 25%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x6 SP No.1 2x6 SP No.1 2x6 SP No.1 *Excep 2x4 SP No.2 *Excep Structural wood shea Structural wood shea (size) 2=0-3-8, 1 17=5-9-8, Max Horiz 2=223 (LC Max Uplift 2=-63 (LC 17=-665 (Max Grav 2=964 (LC 16=140 (L 18=1221 (t* 27-4:2x4 SP No.2 t* 17-12:2x4 SP No.1 athing directly applied tathing directly applied 14=5-9-8, 16=5-9-8, 18=0-3-8, 36=5-9-8 C 11) t 12), 16=-80 (LC 13) LC 26), 18=-179 (LC C 1), 14=589 (LC 1), C 20), 17=87 (LC 13) (LC 20), 36=589 (LC	2) I d. d. 3) , 4) 13) 5) , 6) 1) 7) 7	Wind: ASCE Vasd=103mp Cat. II; Exp C Exterior(2E) Exterior(2E) 27-2-12 zone for reactions DOL=1.60 Truss design only. For stu see Standarc or consult qu All plates are Gable studs This truss ha chord live loa	7-16; Vult=130m h; TCDL=6.0psf; C; Enclosed; MWF 0-8-12 to 3-8-1, 13-3-0 to 17-7-13 c;C-C for member shown; Lumber I ed for wind loads ds exposed to wi 4 Industry Gable I alified building de 2x4 MT20 unles spaced at 2-0-0 c s been designed ud nonconcurrent us been designed	ph (3-sec BCDL=6 FRS (envi Interior (1 3, Interior rs and for DOL=1.60 a in the pla ind (norm End Detai sesigner as so therwi bc. for a 10.0 with any d for a liv	ond gust) .0psf; h=15f elope) and C) 3-8-1 to 13 (1) 17-7-13 : ces & MWFf) plate grip ane of the tru al to the face is as applica s per ANSI/T se indicated.) psf bottom other live loa	t; C-C 3-3-0, to RS uss able, PI 1. 					
FORCES	(lb) - Maximum Com Tension 1-2=0/24, 2-3=-584/ 4-6=-1004/222, 6-7= 8-9=-842/252, 9-11= 11-12=-898/159, 12- 13-14=-748/31 14-1	18=1221 (LC 20), 36=589 (LC 1) 7) * This truss has been designed for a live load onconcurrent with any other live loads. (lb) - Maximum Compression/Maximum 7) * This truss has been designed for a live load onconcurrent with any other live loads. 1-2=0/24, 2-3=-584/135, 3-4=-1367/271, 4-6=-1004/222, 6-7=-659/272, 7-8=-779/292, 8-9=-842/252, 9-11=-867/200, 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members. 8-9=-842/252, 9-11=-867/200, 8) All bearings are assumed to be SP No.1 crushing capacity of 565 psi. 11-12=-898/159, 12-13=-675/93, 9) One RT3A MiTek connectors recommended to connect											
BOT CHORD	2-29=-141/337, 3-28 27-28=-125/1277, 25 24-25=0/741, 23-24= 20-22=0/741, 19-20= 17-18=0/0, 16-17=0/ 7-25=-161/303, 6-27 9-23=-92/79, 11-20= 12-19=-360/128, 13- 4-27=-664/239, 21-2	5-0/741, 5-27=0/741, =0/741, 22-23=0/741, =0/741, 18-21=0/0, (590, 14-16=0/590) (=0/421, 8-24=-20/60) c-70/51, 17-19=-362/ -16=-67/88, :22=-158/57,	, 10 , 143, 11	truss to bear and 18. This consider late) One RT16A truss to bear connection is forces.) This truss de structural wo chord and 1/	Ing wails due to C connection is for ral forces. MiTek connectors ing walls due to L of ruplift only an sign requires that od sheathing be a	uplift only s recomm JPLIFT at d does no t a minim applied di	Jt(s) 2, 14, 1 v and does n ended to col jt(s) 17. This of consider la um of 7/16" rectly to the	top		A THINK	A.	SEA 0363	
NOTES 1) Unbalance this design	28-29=-20/175 ed roof live loads have n.	been considered for	LC	the bottom cl	Standard			y lo				A. G	E.P. K.

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April 2,2025

Job	Truss	Truss Type	Qty	Ply	Lot 20 Turlington Acres	
J0425-1939	B02	Roof Special	1	1	Job Reference (optional)	172472004

Scale = 1:71.4

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Apr 02 12:49:42 ID:RvDMSG9RRy9VSH_kjO1TjqzoXBI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Plate Offsets (X, Y): [3:0-6-14,0-0-14], [9:0-3-0,0-1-14], [10:Edge,0-0-3]

Loa TCL TCL BCL BCL	i ding _L (roof) DL _L DL	(psf) 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 IRC202	1/TPI2014	CSI TC BC WB Matrix-AS	0.49 0.48 0.22	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.11 -0.20 0.12 0.07	(loc) 12-27 16-17 10 16-17	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 204 lb	GRIP 244/190 FT = 25%	
LUN TOF BOT WE BR/ TOF BOT RE/	MBER CHORD CHORD BS DGE ACING CHORD CHORD ACTIONS	2x6 SP No.1 2x6 SP No.1 2x4 SP No.2 *Excep No.1 Left: 2x4 SP No.3 Structural wood she Structural wood she (size) 2=0-3-8, Max Horiz 2=223 (L0 Max Uplift 2=-65 (LC Max Gray 2=1297 (J	ot* 12-13,18-17:2x6 S eathing directly applie lathing directly applie 10=0-3-8 C 11) C 12), 10=-65 (LC 13) LC 19). 10=-1348 (LC	4) SP 5) 6) d. d. 7) 20)	* This truss h on the botton 3-06-00 tall b chord and an All bearings a capacity of 5 One RT3A M truss to beari This connect lateral forces This truss de structural wo chord and 1/	as been designed n chord in all area by 2-00-00 wide wi y other members, are assumed to be 65 psi. liTek connectors r ing walls due to U ion is for uplift onl sign requires that od sheathing be a and	d for a liv s where ill fit betw with BC e SP No. ecomme PLIFT at y and do a minim upplied di ock be ap	e load of 20.0 a rectangle veen the bottt DL = 10.0psf 1 crushing nded to conn jt(s) 2 and 10 es not consid um of 7/16" rectly to the t	Dpsf om nect 0. der top / to						
FOF	RCES	(lb) - Maximum Com	npression/Maximum	L(DAD CASE(S)	Standard									
TOF	P CHORD	lension 1-2=0/24, 2-3=-848/ 4-6=-1839/393, 6-8= 8-9=-1933/344, 9-1((163, 3-4=-1961/340, =-1820/397,)=-655/169_10-11=0/	/24											
BOT	T CHORD BS	2-18=-127/449, 3-17 16-17=-179/1797, 1 13-14=-173/1611, 9 10-12=-79/201 6-16=-137/978, 6-14 4-16=-513/252, 8-14	7=-179/1797, 4-16=0/1077, -13=-173/1611, 4=-142/986, 1463/252, 12-13-0.	/160									WITH CA	Politic	
		17-18=-20/261		100,								N	R	SLIN	1
NO ⁻ 1) 2) 3)	TES Unbalance this design Wind: ASC Vasd=103i Cat. II; Exp Exterior(2E Exterior(2F 27-2-12 zc for reaction DOL=1.60 This truss	ed roof live loads have h. CE 7-16; Vult=130mph mph; TCDL=6.0psf; B p C; Enclosed; MWFR E) -0-8-12 to 3-8-1, Int R) 13-3-0 to 17-7-13, I one;C-C for members has been designed to	been considered for (3-second gust) CDL=6.0psf; h=15ft; (S (envelope) and C-ferior (1) 3-8-1 to 13-3 interior (1) 17-7-13 to and forces & MWFRS DL=1.60 plate grip r a 10.0 psf bottom	C 3-0, S							Willinner.		SEA 0363	L 22 ILBERT	A. Martinen
,	chord live	load nonconcurrent w	ith any other live load	ls.									111111	mm,	



April 2,2025

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Job	Truss	Truss Type	Qty	Ply	Lot 20 Turlington Acres	
J0425-1939	B03	Roof Special Girder	1	2	Job Reference (optional)	172472005

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Apr 02 12:49:42 ID:RvDMSG9RRy9VSH_kjO1TjqzoXBI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale =	1:69.4
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Loading	(pst)	Spacing	2-0-0		CSI		DEFL	ın	(IOC)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15		тс	0.52	Vert(LL)	-0.13	8-10	>999	360	M18AHS	186/179	
TCDL	10.0	Lumber DOL	1.15		BC	0.95	Vert(CT)	-0.24	8-10	>999	240	MT20	244/190	
BCLL	0.0*	Rep Stress Incr	NO		WB	0.97	Horz(CT)	0.11	7	n/a	n/a			
BCDL	10.0	Code	IRC202	/TPI2014	Matrix-MS		Wind(LL)	0.08	8-10	>999	240	Weight: 473 lb	FT = 25%	
			3)	Unbalanced	roof live loads have	o boon (considered fo	r	1) Da	and ± Ro	ofLiv	(balanced): Lur	ber Increase-1 1	5
	OVC OD No. 4		- 5)	this design		e been (4	1) D(ato Incre		15		5,
	2X6 SP N0.1	*5	00 (1)	Wind ASCE	7 16: \/ult_120mp	h (2 coc	ond quet)		E1	ale more		.10 h/ft)		
BOT CHORD	2x10 SP 2400F 2.0E	: ^Except^ 9-7:2x10	SP 4)	Vinu. ASCE	7-16, Vuit=130mp		Ond gust)		01				0	
WEDO					: Enclosed: MW/E		(0psi, n=15i)	or	0	ven: 1-	18=-20), 1-4=-60, 4-7=-6	0	
WEBS	2x4 SP No.2 Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber								C	Differitia				
BRACING	CING DOL=1.60 plate grip DOL=1.60									vert: 12	=-148	5 (F), 17=-1488 (F	·), 20=-1593 (F),	-
TOP CHORD	Structural wood she	athing directly applie	ed or 5)	This trues ha	s boon designed f	3301101) not bottom	u.		21=-140	55 (F),	ZZ=-Z45 (F), Z3≕	-245 (F), 24=-240)
	4-7-12 oc purlins.		0)	chord live los	d nonconcurrent v	vith any	other live loa	de		(F), 25=	-245 (I	F), 26=-245 (F), 2	/=-245 (F),	
BOT CHORD	Structural wood she	athing directly applie	ed or 7)	* This trues h	as been designed	for a liv	e load of 20 (lus. Inef		28=-134	ŧΟ (F),	29=-1775 (F), 30	=-1//5 (F)	
	10-0-0 oc bracing.		')	on the hotton	as been designed	whore	a rectangle	pai						
WEBS	1 Row at midpt	2-10		3-06-00 tall b	v 2-00-00 wide wil	ll fit hotu	a rectangle	h						
REACTIONS	(size) 1=0-3-8, 7	/=0-6-0		chord and an	v other members		leen me bou	5111						
	Max Horiz 1=-212 (L	C 4)	8)	Rearings are	assumed to be . In	nint 1 SI	2400E 2.0E	:						
	Max Uplift 1=-432 (L	C 8)	0)	crushing can	acity of 805 psi . Ic	bint 7 SF	No 1 crushi	na						
	Max Grav 1=6723 (L	.C 15), 7=8463 (LC	16) capacity of 565 psi											
FORCES	(lb) - Maximum Com	pression/Maximum	9)	One RT7A M	iTek connectors re	ecomme	nded to conn	ect						
	Tension	•	0)	truss to beari	ng walls due to UF	PLIFT at	it(s) 1. This							
TOP CHORD	1-2=-10391/728, 2-4	=-5444/478,		connection is	for uplift only and	does no	ot consider la	teral						
	4-6=-5439/488, 6-7=	-9877/475		forces.										
BOT CHORD	1-12=-635/8580, 10-	12=-635/8580,	10) One RT3A M	Tek connectors re	ecomme	nded to conn	nect						
	8-10=-309/8193, 7-8	=-309/8193		truss to beari	ng walls due to UF	PLIFT at	jt(s) 7. This							
WEBS	2-12=-176/4009, 6-8	=0/3967,		connection is	for uplift only and	does no	ot consider la	teral					11	
	4-10=-399/5504, 6-1	0=-4296/187,		forces.								AN' I CA	DIL	
	2-10=-4532/420		11) Use MiTek JI	JS210 (With 8-10d	d nails ir	to Girder & 4	-10d				THUA	ROIL	
NOTES				nails into Tru	ss) or equivalent s	paced a	it 14-0-0 oc m	nax.			~	ON JESS	De Air	
 2-ply truss 	s to be connected toget	ther with 10d		starting at 1-	11-4 from the left e	end to 19	9-11-4 to con	nect		/	22		N. Si	1
(0.131"x3	") nails as follows:			truss(es) to fi	ont face of bottom	chord.				<u> </u>			No 1	<u> </u>
Top chore	ds connected as follows	s: 2x6 - 2 rows	12) Use MiTek J	JS24 (With 4-10d	nails int	o Girder & 2-	10d		-	<u>е р</u>	· × -		3
staggered	d at 0-9-0 oc.			nails into Tru	ss) or equivalent s	paced a	it 2-0-0 oc ma	ax.		-		SEA		=
Bottom ch	nords connected as follo	ows: 2x10 - 2 rows		starting at 7-	11-4 from the left e	end to 1	-11-4 to con	nect		-		0000		-
staggered	at 0-5-0 oc.			truss(es) to fi	ront face of bottom	chord.				-		0363	22	Ξ.
Web conr	nected as follows: 2x4 -	1 row at 0-9-0 oc,	13) Use Milek M	ISH29 (With 18-10	id nails i	nto Girder &			-	- 3	•	1	5
Except m	ember 2-12 2x4 - 1 row	at 0-4-0 oc.		4-10d nails in	to Truss) or equiv	alent sp	aced at 2-3-0	000			-	A		
2) All loads a	are considered equally	applied to all plies,		max. starting	$a_1 \ge 1-9-1 \ge 110111$		10 10 25-11-4	10			- 1	A SNOW	FRICK	
except if r	noted as front (F) or ba	ck (B) face in the LC		Connect truss	(es) to front face t		n chord.	hor			1	A. GIN	1. 45	
CASE(S)	section. Ply to ply conr	ections have been	14			15 111 001	naci with luffi	Del.			1	1CA C	II BEIN	
provided 1	to distribute only loads	noted as (F) or (B),	LC	AD CASE(S)	Siandard							11, A. G	in in its	
uniess off	ieiwise inuicateu.											<u>sound</u>	1	
												Арі	11 2,2025	

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Job	Truss	Truss Type	Qty	Ply	Lot 20 Turlington Acres	
J0425-1939	C01	Common Supported Gable	1	1	Job Reference (optional)	172472006

Loading

TCDI

BCLL

BCDL

WEBS

Run; 8.63 S Sep 26 2024 Print; 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Apr 02 12:49:42 ID:RvDMSG9RRy9VSH_kjO1TjqzoXBI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Edenton, NC 27932

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Job	Truss	Truss Type	Qty	Ply	Lot 20 Turlington Acres	
J0425-1939	C02	Common	1	1	Job Reference (optional)	472007

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Apr 02 12:49:42

Page: 1

Comtech, Inc, Fayetteville, NC - 28314,



		4x6 =	
	10-6-0	21-0-0	
Г	10-6-0	10-6-0	I
Scale = 1:56.9			
Plate Offsets (X, Y); [2:Edge.0-0-7], [4:Edge.0-0-7]			

4x6=

Plate Offsets	(X, Y): [2:Edge,0-0-7],	[4:Edge,0-0-7]											
Loading TCLL (roof) TCDL BCLL BCDL	(psf) 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 IRC2021/TPI2	CSI TC BC WB Matrix-AS	0.39 0.46 0.14	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.10 -0.16 0.02 0.06	(loc) 7-14 7-14 2 7-11	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 124 lb	GRIP 244/190 FT = 25%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x6 SP No.1 2x6 SP No.1 2x4 SP No.2 Structural wood shea (size) 2=0-3-8, 4 Max Horiz 2=179 (LC Max Uplift 2=-54 (LC Max Grav 2=1052 (L	athing directly applie thing directly applie =0-3-8 • 11) 12), 4=-54 (LC 13) C 19), 4=1052 (LC	6) One truss This later 7) This struc d. chor the t LOAD C	RT3A MiTek connectors to bearing walls due to l connection is for uplift or al forces. truss design requires that trural wood sheathing be d and 1/2" gypsum sheet bottom chord. ASE(S) Standard	recomme UPLIFT at hly and do at a minim applied di rock be ap	nded to conr jt(s) 2 and 4 es not consid um of 7/16" rectly to the oplied directly	nect der top y to						
FORCES	(lb) - Maximum Com Tension	pression/Maximum											
TOP CHORD	1-2=0/24, 2-3=-1210/ 4-5=0/24	/237, 3-4=-1210/23	7,										
BOT CHORD WEBS	2-7=-184/936, 4-7=-1 3-7=0/640	64/936											
NOTES 1) Unbalance this design 2) Wind: ASG Vasd=103 Cat. II; Ex Exterior(2 Exterior(2	ed roof live loads have l n. CE 7-16; Vult=130mph 3mph; TCDL=6.0psf; BC cp C; Enclosed; MWFRS E) -0-8-12 to 3-8-1, Inte B) 10-6-0 to 14-10-13	been considered for (3-second gust) DL=6.0psf; h=15ft; 5 (envelope) and C- prior (1) 3-8-1 to 10- interior (1) 14-10-13	C 6-0,								WTH CA	ROUT	

- 21-8-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 This truss has been designed for a 10.0 psf bottom 3)
- chord live load nonconcurrent with any other live loads. 4) * 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. All bearings are assumed to be SP No.1 crushing capacity of 565 psi. 5)



4x6=

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and PCB Building Component Science Michael Component Advancement description (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	Lot 20 Turlington Acres		
J0425-1939	M01	Monopitch Structural Gable	1	1	Job Reference (optional)	172472008	

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Apr 02 12:49:42 ID:RvDMSG9RRy9VSH_kjO1TjqzoXBI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



5-0-0

Scale = 1:28.8

-

Loading TCLL (roof) TCDL BCLL BCDL	(psf) 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 IRC2021/TPI2014	CSI TC BC WB Matrix-P	0.32 0.02 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a n/a	(loc) - - -	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 25 lb	GRIP 244/190 FT = 25%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.1 2x6 SP No.1 2x4 SP No.2 2x4 SP No.2 Structural wood sh 5-0-0 co purlins, e Structural wood sh 10-0-0 co bracing. (size) 2=5-0-0 Max Horiz 2=64 (L Max Uplift 2=-59 (I Max Grav 2=227 (eathing directly appli xcept end verticals. eathing directly appli , 4=5-0-0, 5=5-0-0 C 8) , C 8), 4=-54 (LC 12) _C 1), 4=150 (LC 1),	7) All beari capacity 8) Provide bearing 4 and 55 LOAD CASI ed or ed or 5=127	ngs are assumed to b of 565 psi. mechanical connectic plate capable of withs b uplift at joint 2. E(S) Standard	be SP No.	1 crushing ers) of truss to 4 lb uplift at jo) int					
FORCES TOP CHORD BOT CHORD NOTES 1) Wind: ASC Vasd=103 Cat. II; Exj Exterior(21 zone;C-C reactions s DOL=1.60 2) Truss desi only. For is see Stand or consult 3) Gable stuu 5) This truss chord live 6) * This trus on the bot 3-06-00 ta chord and	(b) - Maximum Cc Tension 1-2=0/5, 2-3=-86/4 2-5=0/0, 4-5=0/0 CE 7-16; Vult=130mg imph; TCDL=6.0psf; p C; Enclosed; MWF E) -0-10-8 to 3-6-5, I for members and for shown; Lumber DOL igned for wind loads studs exposed to win ard Industry Gable E qualified building de uires continuous bott ds spaced at 2-0-0 o has been designed tom chord in all area ill by 2-00-00 wide w any other members.	mpression/Maximum 6, 3-4=-141/192 h (3-second gust) BCDL=6.0psf; h=15fl RS (envelope) and C tterior (1) 3-6-5 to 4- ces & MWFRS for =1.60 plate grip in the plane of the tru d (normal to the face nd Details as applica signer as per ANSI/T om chord bearing. c) or a 10.0 psf bottom with any other live loa l for a live load of 20. s where a rectangle ll fit between the bott	; -C 10-4 iss e), ble, Pl 1. Ads. 0psf om						M. M. Martin		SEA 0363	EER-FAT

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 outlapse 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/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

Job	Truss	Truss Type	Qty	Ply	Lot 20 Turlington Acres	_
J0425-1939	M02	Monopitch	6	1	Job Reference (optional)	•

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Apr 02 12:49:42 ID:RvDMSG9RRy9VSH_kjO1TjqzoXBI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:30.8

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

Loading TCLL (roof) TCDL BCLL BCDL	(p 20 10 0 10	osf) 0.0 0.0 0.0* 0.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021	/TPI2014	CSI TC BC WB Matrix-AS	0.18 0.12 0.00	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.01 -0.02 0.00 0.01	(loc) 4-7 4-7 2 4-7	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 23 lb	GRIP 244/190 FT = 25%
LUMBER TOP CHORE BOT CHORE WEBS BRACING TOP CHORE BOT CHORE REACTIONS	 2x4 SP No.1 2x6 SP No.1 2x4 SP No.2 Structural wood except end ver Structural wood (size) 2=0- Max Horiz 2=67 Max Uplift 2=-4 Max Grav 2=25 	nd shea rticals. nd shea -3-8, 4: 7 (LC 8 44 (LC 51 (LC	thing directly applied thing directly applied =0-1-8 3) 8), 4=-31 (LC 12) 1), 4=189 (LC 1)	7) 8) d, d. LO	One RT3A M truss to beari This connecti lateral forces This truss de structural woo chord and 1/2 the bottom ch AD CASE(S)	Tek connectors re ing walls due to UP on is for uplift only sign requires that a od sheathing be ap " gypsum sheetroo ord. Standard	comme LIFT at and do minim plied di ck be ap	nded to conn- jt(s) 2 and 4. es not consid um of 7/16" rectly to the tr oplied directly	ect er op to					
Max Grav 2=251 (LC 1), 4=189 (LC 1) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/17, 2-3=-165/73, 3-4=-111/141 BOT CHORD 2-4=-43/59														
 BOT CHORD 2-4=-43/59 NOTES 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-10-8 to 3-6-5, Interior (1) 3-6-5 to 4-10-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 3) * 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. 4) Bearings are assumed to be: Joint 2 SP No.1 crushing capacity of 565 psi, Joint 4 SP No.2 crushing capacity of 565 psi. 5) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface. 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4. 											Withhan		SEAL OBC SEAL O3632	

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818 Soundside Road Edenton, NC 27932

April 2,2025

Job	Truss	Truss Type	Qty	Ply	Lot 20 Turlington Acres	
J0425-1939	M03	Monopitch	2	1	Job Reference (optional)	172472010

1-5-3

1-5-0

Run: 8.63 S Sep 26 2024 Print: 8.630 S Sep 26 2024 MiTek Industries, Inc. Wed Apr 02 12:49:43 ID:RvDMSG9RRy9VSH_kjO1TjqzoXBI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



3x4 =

2-4-8

2x4 🛚

1-4-8

Scale = 1:25.3 _

Loading TCLL (roof)	(psf) 20.0	Spacing Plate Grip DOL	2-0-0 1.15	CSI TC	0.04	DEFL Vert(LL)	in 0.00	(loc) 7	l/defl >999	L/d 360	PLATES MT20	GRIP 244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	4-7	>999	240	-	
BCLL BCDL	0.0* 10.0	Rep Stress Incr Code	YES IRC2021/TPI2014	WB Matrix-MP	0.01	Horz(CT) Wind(LL)	0.00 0.00	2 4-7	n/a >999	n/a 240	Weight: 12 lb	FT = 25%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	 2x4 SP No.1 2x6 SP No.1 2x4 SP No.2 Structural wood she: 2-6-0 oc purlins. Structural wood she: 10-0-0 oc bracing. (size) 2=0-3-8, 4 Max Horiz 2=40 (LC 	athing directly applie athing directly applie I=0-1-8 8)	7) One RT3A truss to be This conne lateral forc LOAD CASE(S ed or	MiTek connectors aring walls due to U ction is for uplift or es. 5) Standard	recomme JPLIFT at Ily and dc	ended to conn ; jt(s) 2 and 4 ; es not consic	ler					
	Max Uplift 2=-41 (LC Max Gray 2=156 (LC	8), 4=-14 (LC 12) 1), 4=84 (LC 1)										
Max Uplift 2=-41 (LC 8), 4=-14 (LC 12) Max Grav 2=156 (LC 1), 4=84 (LC 1) (b) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/17, 2-3=-60/29 BOT CHORD 2-4=-19/35 WEBS 3-4=-88/61 NOTES 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15f; Cat. II; Exp C; Enclosed; MWFRS (or reactions show; Lumber DOL=1.60 plate grip DOL=1.60 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 3) * 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 2-0-00 wide will fit between the bottom chord are reasing are assumed to be: Joint 2 SP No.1 crushing capacity of 565 psi, Joint 4 SP No.2 crushing capacity of 565 psi. 3) Bearing at joint(s) 4 considers parallel to grain value using ANS/ITF1 angle to grain formula. Building designer should verify capacity of bearing surface. 6) Provide mechanical connection (by others) of truss to										L L L L B E E E E E R N M B H M M M M M M M M M M M M M M M M M		

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Job	Truss	Truss Type	Qty	Ply	Lot 20 Turlington Acres	
J0425-1939	P01	Monopitch Structural Gable	2	1	Job Reference (optional)	172472011

Run: 8.63 E Aug 30 2023 Print: 8.630 E Aug 30 2023 MiTek Industries, Inc. Wed Apr 02 15:02:47 ID:bs?Ai3_?op05U4jpWkGlj_zUkT?-cll0qOqzmpIOLbwDzMWeQFkYdmzhIBCXiw1YJRzUkQc



9-5-4

Scale = 1:29.2											
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES
TCLL (roof)	20.0	Plate Grip DOL	1.15	тс	0.08	Vert(LL)	n/a	-	n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	n/a	-	n/a	999	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	6	n/a	n/a	

Matrix-AS

BCDL		10.0	Code	IRC202	21/TPI2014
LUMBER TOP CHORD BOT CHORD WEBS OTHERS	2x6 SP N 2x6 SP N 2x4 SP N 2x4 SP N	0.1 0.1 0.2 0.2		7) This trus structura chord an the botto OAD CASE
BRACING					
TOP CHORD	Structura except er	l wood shea nd verticals.	athing directly appli	ed,	
BOT CHORD	Rigid ceil	ing directly	applied.		
REACTIONS	All bearing	s 10-0-0.			
(lb) ·	 Max Horiz 	2=87 (LC	8), 9=87 (LC 8)		
	Max Uplift	All uplift 1 2, 6, 7, 8,	00 (lb) or less at joi 9	nt(s)	
	Max Grav	All reactio (s) 2, 6, 7,	ns 250 (lb) or less a 9 except 8=442 (L	at joint C 1)	
FORCES	(lb) - Max	. Comp./Ma	ax. Ten All forces	250	
	(lb) or les	s except wi	nen shown.		
WEBS	3-8=-278	/239			
NOTES					
1) Wind: AS Vasd=103 Cat. II; Ex Exterior(2	CE 7-16; Vu 3mph; TCDL (p C; Enclos ?E) -0-4-8 to	It=130mph =6.0psf; B0 ed; MWFR 4-0-5, Inter	(3-second gust) CDL=6.0psf; h=15ft S (envelope) and C ior (1) 4-0-5 to 9-10	; -C)-4	

- Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-4-8 to 4-0-5, Interior (1) 4-0-5 to 9-10-4 zone;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.
 Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.
 This truss has been designed for a live load of 20.0psf
- 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) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



1

Weight: 54 lb

GRIP

244/190

FT = 25%

Page: 1

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Job	Truss	Truss Type	Qty	Ply	Lot 20 Turlington Acres	
J0425-1939	P02	Monopitch	4	1	Job Reference (optional)	172472012

Run: 8.63 E Aug 30 2023 Print: 8.630 E Aug 30 2023 MiTek Industries, Inc. Wed Apr 02 15:03:44 ID:8wmwJURK_BbIKGlqvsQMSozUkPq-z37BaXW5a1LR3BC_F7Wmi332eL2vQUxmbdcVHBzUkPk





	10-0-0	
Scale = 1:30.7		
Plate Offsets (X, Y): [2:0-3-4,0-0-7]		

Loading		(psf)	Spacing	2-0-0	CSI	0.22	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	_
		20.0	Plate Grip DOL	1.15		0.33	Vert(LL)	-0.06	5-7	>999	300	WI120	244/190	
		10.0	Lumber DOL	1.10 VES	BC W/D	0.28		-0.14	5-7	>831	240 p/o			
		10.0	Code			0.16		0.01	5	11/a	11/a	Wainter 40 lb		
BCDL		10.0	Code	IRC2021/1P12014	Matrix-AS		WIND(LL)	0.04	5-7	>999	240	weight: 48 lb	FT = 25%	_
LUMBER														
TOP CHORD	2x4 SP No.1	l												
BOT CHORD	2x6 SP No.1	l												
WEBS	2x4 SP No.2	2												
BRACING														
TOP CHORD	Structural w	ood shea	athing directly applie	ed,										
	except end	verticals.												
BOT CHORD	Rigid ceiling	directly	applied.											
REACTIONS	(lb/size) 2:	=420/0-3	-8, 5=387/0-1-8											
	Max Horiz 2:	=85 (LC	8)											
	Max Uplift 2:	=-51 (LC	8), 5=-51 (LC 12)											
FORCES	(lb) - Max. C	omp./Ma	ax. Ten All forces :	250										
	(lb) or less e	except wł	nen shown.											
TOP CHORD	2-3=-693/35	4												
BOT CHORD	2-5=-438/64	8												
WEBS	3-5=-588/44	.9												
NOTES														
1) Wind: ASC	E 7-16; Vult=	130mph	(3-second gust)											
Vasd=103r	mph; TCDL=6	.0psf; BC	CDL=6.0psf; h=15ft;											
Cat. II; Exp	C; Enclosed	; MWFRS	S (envelope) and C-	С										
Exterior(2E	E) -0-4-8 to 4-0	0-5, Inter	ior (1) 4-0-5 to 9-10	-4										
zone;C-C f	or members a	and force	s & MWFRS for									minin	1111	
reactions s	hown; Lumbe	er DOL=1	.60 plate grip									WAH CA	ROUL	
DOL=1.60											1	R		
2) This truss I	has been desi	igned for	a 10.0 pst bottom							/	51	ESS	di? Via	
chord live I	oad nonconcu	urrent wit	in any other live load	1S.						4		.0		
3) This truss	om obord in o	signed id	vhara a reatenala	psi						-		:0	- K:/-	
2 06 00 tol		uido will f	fit botwoon the botto	m						-		OF A	r 1 E	
chord and	any other me	mhers	in between the bolto							=	1	SEA	4 <u>8 8</u>	
 Provide me 	echanical con	nection (by others) of truss to	h						1	1	0363	22 : =	
bearing pla	ate at ioint(s) 5	5.	.,	-						1			1 2	
5) This truss	design require	es that a	minimum of 7/16"								-	N	1 3	
structural v	vood sheathin	g be app	lied directly to the to	ор							2.1	N.ENO	CRIL S	
chord and	1/2" gypsum s	sheetrocl	k be applied directly	to							30	S. GINI	EF. AS	

the bottom chord. 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 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)



