

Trenco 818 Soundside Rd Edenton, NC 27932

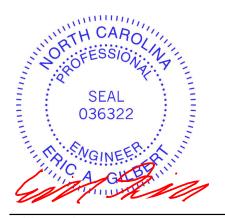
Re: 21030024-A 89 Lake Forest-Roof-BB-2086

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

Pages or sheets covered by this seal: E15498410 thru E15498485

My license renewal date for the state of North Carolina is December 31, 2021.

North Carolina COA: C-0844



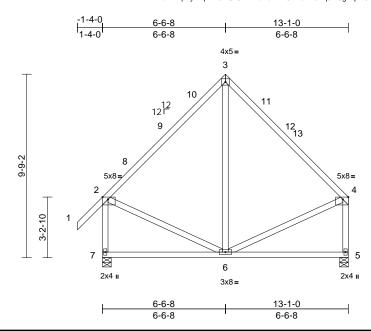
March 15,2021

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	89 Lake Forest-Roof-BB-2086	
21030024-A	К03	Common	2	1	Job Reference (optional)	E15498410

Run: 8,43 S Mar 4 2021 Print: 8,430 S Mar 4 2021 MiTek Industries. Inc. Mon Mar 15 12:36:04 ID:FEaVX2pFyTYpNh5FQLUNHIzano4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:61.3

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

	(X, T). [2.0-5-0,Euge],	[4.0-5-0,Luge]										
Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2015/TPI2	CSI TC BC WB Matrix-MSH	0.78 0.36 0.08	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.04 -0.07 0.00	(loc) 5-6 5-6 5	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 92 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	 2x4 SP No.2 2x4 SP No.3 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. 	cept end verticals. applied or 10-0-0 o 7=0-5-8 C 11) C 14), 7=-57 (LC 15) C 1), 7=606 (LC 1)	DOL Lum Fully ed or 5) This c load over 6) This chor 7) * Thi 3-06	L: ASCE 7-10; Pr=20.0 p =1.15 Plate DOL=1.15); ber DOL=1.15 Plate DOL Exp.; Ct=1.10 alanced snow loads have gn. truss has been designed of 12.0 psf or 1.00 times hangs non-concurrent w truss has been designed d live load nonconcurrent s truss has been designed d live load nonconcurrent s truss has been designed d live load nonconcurrent of the load nonconcurrent of the load nonconcurrent d live load nonco	Pf=20.0 p L=1.15); C e been co d for great flat roof I d for a 10. t with any ed for a liv as where will fit bett	esf (flat roof s category II; E ensidered for er of min roo oad of 20.0 p ve loads. 0 psf bottom o ther live loa ve load of 20 e load of 20 a rectangle	snow: Exp B; this of live osf on ads. .0psf					
TOP CHORD	Tension	127, 8-9=-321/150,)=-295/176, 2=-313/137, 3=-406/134,	8) One truss This later	RT7A USP connectors r to bearing walls due to connection is for uplift o al forces. ASE(S) Standard	ecommer UPLIFT a	t jt(s) 7 and 8	5.					
BOT CHORD	,										minin	11111
WEBS NOTES	3-6=-43/180, 2-6=-8	3/257, 4-6=-76/240									TH CA	Bolin
	ced roof live loads have	been considered fo	r							A.	OFESC	ich sin
2) Wind: AS Vasd=10 Cat. II; E: zone and 1-8-0 to 3 9-6-8 to 9 cantileve right expo	SCE 7-10; Vult=130mph (3mph; TCDL=6.0psf; Br xp B; Enclosed; MWFR 1 C-C Exterior (2) -1-4-0 3-6-8, Exterior (2) 3-6-8 9-11-4, Exterior (2) 9-11 r left and right exposed osed;C-C for members ons shown; Lumber DO	CDL=6.0psf; h=25ft; S (envelope) exterior to 1-8-0, Interior (1) to 9-6-8, Interior (1) -4 to 12-11-4 zone; ; end vertical left an and forces & MWFF	or) d						S, erritter		SEA 0363	• -

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

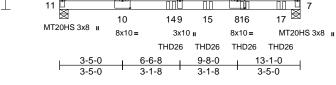


GI 11111111 March 15,2021

Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	K04	Common Girder	1	2	Job Reference (optional)	E15498411

Run: 8.43 S Mar 4 2021 Print: 8.430 S Mar 4 2021 MiTek Industries, Inc. Mon Mar 15 12:36:04 ID:RpbTGAz0QDoR8EeEd1YmZfzan0p-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-1-4-0 3-5-0 6-6-8 9-8-0 13-1-0 1-4-0 3-1-8 3-1-8 3-5-0 3-5-0 8x10 🅢 4 12 12 12 13 2x4 2x4 II 3 5 4x6、 4x6 2 6 3-2-10 Ŀ 11 ПП ΠΠ Πr 7



Scale = 1:62.7

Plate Offsets (X, Y): [4:0-6-8,0-3-0], [8:0-5-0,0-4-12], [10:0-5-0,0-4-12]

9-9-2

	,, ,, ,, ,, [1:0 0 0,0 0 0],	[0.0 0 0,0 1],[0.0 0 0,0	=1									
Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC20 ²	5/TPI2014	CSI TC BC WB Matrix-MSH	0.27 0.58 0.61	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.04 -0.06 0.01	(loc) 9-10 8-9 7	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 MT20HS Weight: 279 lb	GRIP 244/190 187/143 FT = 20%
	2x6 SP No.2 2x4 SP No.3 *Excep Structural wood she 6-0-0 oc purlins, exi Rigid ceiling directly bracing, Except: 6-0-0 oc bracing: 10	athing directly applie cept end verticals. applied or 10-0-0 or -11. 11=0-5-8 _C 9) LC 13)	ed or 3 c 4	 except if not CASE(S) se provided to o unless other Unbalanced this design. Wind: ASCE Vasd=103m Cat. II; Exp E zone; cantile and right exp DOL=1.60 TCLL: ASCE 	considered equal ed as front (F) or b ction. Ply to ply co distribute only load wise indicated. roof live loads hav 7-10; Vult=130mp bh; TCDL=6.0psf; 8; Enclosed; MWF ver left and right e bosed; Lumber DC 57-10; Pr=20.0 ps	vack (B) nnection s noted ve been oh (3-sec BCDL=6 RS (env exposed pL=1.60 f (roof liv	face in the LC s have been as (F) or (B), considered for cond gust) 0.0psf; h=25ft elope) exteric ; end vertical plate grip re load: Lumb	or ; or left wer	14) Mir trus LOAD 1) Do In Ui	timum of sto atta CASE(S ead + Sr crease= niform Lo Vert: 1-: oncentra	a dou ach LU) Sta now (ba 1.15 bads (l 2=-60, ted Lo =-2460	ble stud required GT2 tiedown. ndard alanced): Lumber b/ft) 2-4=-60, 4-6=-60	,
FORCES	(lb) - Maximum Com Tension 1-2=0/63, 2-3=-2414	pression/Maximum	,	DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10 Unbalanced snow loads have been considered for this									
BOT CHORD	4-12=-2374/880, 4-1 5-13=-3274/313, 5-6 2-11=-3312/925, 6-7 10-11=-268/239, 10- 9-14=-502/1981, 9-1 8-15=-502/1981, 8-1 7-47-47/20	5=-3269/190, '=-4338/206 -14=-502/1981, 5=-502/1981,	8	 design. 7) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads. 8) All plates are MT20 plates unless otherwise indicated. 9) This truss has been designed for a 10.0 psf bottom 									ROLIN
WEBS	7-17=-17/73 2-10=-611/2277, 6-8 3-10=-221/227, 4-10 4-9=-1522/3432, 4-8)=-914/50,		0) * This truss I on the bottor	ad nonconcurrent has been designed m chord in all area by 2-00-00 wide w	l for a liv s where	e load of 20.0 a rectangle	Opsf		4	in	O: FESS	AL AL
(0.131"x3" Top chords oc. Bottom chords staggered	to be connected toger) nails as follows: s connected as follows ords connected as follow at 0-4-0 oc. ected as follows: 2x4 -	s: 2x4 - 1 row at 0-9- ows: 2x6 - 2 rows	-0	 One LUGT2 truss to bear connection is forces. Use USP TH 12-10d x 1-1 2-0-0 oc mat 	by other members. USP connectors r ing walls due to U s for uplift only and ID26 (With 18-16d /2 nails into Truss k. starting at 6-0-1 ponnect truss(es) to	ecomme PLIFT at does n nails int nails int) or equi 2 from th	i jt(s) 11. This ot consider la o Girder & valent spaced ie left end to	teral		111100		SEA 0363	22 EER.K.

March 15,2021

Page: 1

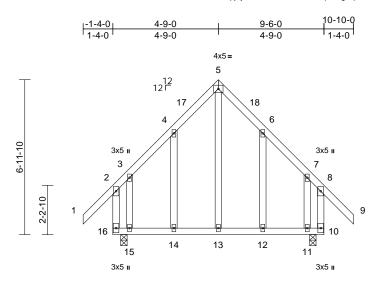
818 Soundside Road Edenton, NC 27932

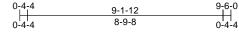
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	H01	Common	1	1	Job Reference (optional)	E15498412

Run: 8 43 S Mar 4 2021 Print: 8 430 S Mar 4 2021 MiTek Industries Inc. Mon Mar 15 12:35:58 ID:J1tTPwA0RAsKWYY3pj1yeazanov-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1





Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	-0.04	13	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.08	13	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	11	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 76 lb	FT = 20%

LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3
BRACING	
TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
REACTIONS	(size) 11=0-3-8, 15=0-3-8
	Max Horiz 15=223 (LC 13)
	Max Uplift 11=-49 (LC 15), 15=-49 (LC 14)
	Max Grav 11=457 (LC 1), 15=457 (LC 1)
FORCES	(lb) - Maximum Compression/Maximum
	Tension
TOP CHORD	1-2=0/63, 2-3=-145/59, 3-4=-209/91,
	4-17=-228/180, 5-17=-220/193,
	5-18=-220/193, 6-18=-228/180, 6-7=-209/91,
	7-8=-145/59, 8-9=0/63, 2-16=-171/119,
	8-10=-171/119
BOT CHORD	
	13-14=-84/170, 12-13=-84/170,
	11-12=-84/170, 10-11=-84/170
WEBS	5-13=-170/172, 4-14=-96/117, 3-15=-191/64, 6-12=-96/117, 7-11=-191/64

NOTES

5 L

- Unbalanced roof live loads have been considered for 1) this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this 5) desian.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated. 7)
- Truss to be fully sheathed from one face or securely 8) braced against lateral movement (i.e. diagonal web). Gable studs spaced at 2-0-0 oc. 9)
- 10) This truss has been designed for a 10.0 psf bottom
- 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 2-00-00 wide will fit between the bottom chord and any other members.
- 12) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 15 and 11. This connection is for uplift only and does not consider lateral forces.
- LOAD CASE(S) Standard



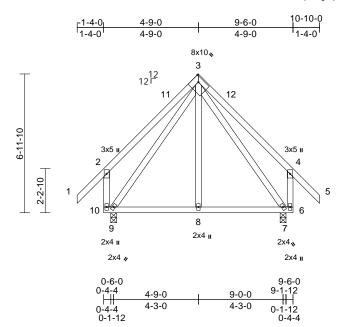


Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	H02	Common	1	1	Job Reference (optional)	E15498413

Run: 8,43 S Mar 4 2021 Print: 8,430 S Mar 4 2021 MiTek Industries, Inc. Mon Mar 15 12:35:59 ID:YmwsI?HfKx?25wkor6i3VTzanom-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:57.8

Plate Offsets (X, Y): [3:Edge,0-2-12]

		-											
Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	5/TPI2014	CSI TC BC WB Matrix-MSH	0.41 0.15 0.29	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.01 -0.01 0.00	(loc) 7-8 7-8 7	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 77 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORE BOT CHORE WEBS BRACING TOP CHORE BOT CHORE REACTIONS	 2x4 SP No.2 2x4 SP No.3 Structural wood she 6-0-0 cc purlins, exits Rigid ceiling directly bracing. (size) 7=0-3-8, S Max Horiz 9=-223 (L Max Uplift 7=-49 (LC 	cept end verticals. 2 applied or 6-0-0 oc 9=0-3-8 .C 12) C 15), 9=-49 (LC 14)	7)	design. This truss ha load of 12.0 overhangs m This truss ha chord live lo * This truss on the botto 3-06-00 tall chord and a One RT16A truss to beal	snow loads have I as been designed f psf or 1.00 times f on-concurrent with as been designed an onconcurrent i has been designed m chord in all area by 2-00-00 wide wi ny other members. USP connectors r ring walls due to U tion is for uplift onl	for great lat roof I o other li for a 10. with any I for a liv s where s where ill fit betw ecomme PLIFT a	er of min roo bad of 20.0 p ve loads. 0 psf bottom other live loa re load of 20. a rectangle veen the bott ended to com t jt(s) 9 and 7	f live osf on ads. Opsf tom nect 7.					
FORCES	Tension				s. Standard	y and de							
	9-10=-15/65, 8-9=-6 6-7=-15/65	0/180, 7-8=-60/180,										5000 1 1 I I	
WEBS	3-8=0/183, 3-9=-276	5/87, 3-7=-275/87											
NOTES 1) Unbaland this designed	ced roof live loads have gn.	been considered fo	r								ALL	ORTHUR	N'I''
Vasd=10 Cat. II; E zone and exposed members Lumber I 3) TCLL: AS DOL=1.1 Lumber I	SCE 7-10; Vult=130mph (3mph; TCDL=6.0psf; BK xp B; Enclosed; MWFRS 1C-C Exterior (2) zone; ; end vertical left and rig s and forces & MWFRS DOL=1.60 plate grip DO SCE 7-10; Pr=20.0 psf (5 Plate DOL=1.15); Pf= DOL=1.15 Plate DOL=1 .; Ct=1.10	CDL=6.0psf; h=25ft; S (envelope) exterior cantilever left and ri ght exposed;C-C for for reactions shown DL=1.60 roof live load: Lumb =20.0 psf (flat roof sr	or ight ; er now:									SEA 0363	• –

- Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber 3) DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



G١ mmm March 15,2021

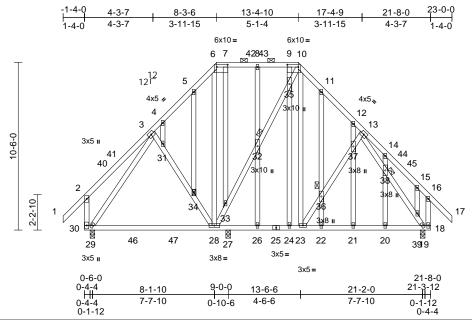
Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	G01	Piggyback Base Structural Gable	1	1	Job Reference (optional)	E15498414

Run: 8,43 S Mar 4 2021 Print: 8,430 S Mar 4 2021 MiTek Industries. Inc. Mon Mar 15 12:35:54 ID:?3oFXfse6h8oxoj6wJaOjbzanqc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

SINEERING

818 Soundside Road Edenton, NC 27932

Page: 1



Scale = 1:72.1 Plate Offsets (X, Y): [6:0-8-4,0-1-12], [10:0-8-4,0-1-12]

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	0.48			28-29	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.53		-0.17		>623	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.01	19	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TP	2014 Matrix-MSH								
BCDL	10.0										Weight: 259 lb	FT = 20%
UMBER OP CHORD OT CHORD //EBS ITHERS IRACING OP CHORD OT CHORD OINTS EACTIONS	2x4 SP No.2 2x4 SP No.3 *Excep 2x4 SP No.3 Structural wood she 6-0-0 oc purlins, ex 2-0-0 oc purlins (6-0 Rigid ceiling directly bracing. 1 Brace at Jt(s): 32, 34, 36, 38	athing directly applie cept end verticals, ar -0 max.): 6-10. applied or 10-0-0 oc 27=0-3-8, 29=0-3-8	d or id NOTES 1) Un this	balanced roof live loads h design.	6-28=-54 32-33=-1 10-35=-1 23-36=-2 13-37=-1 38=-866/ 31=-12/12 7-33=-18/2 35=-169/ 12-37=0/1 38=-63/52 ave been	/210, 43/142, 55/153, 22/189, 61/152,), 38-39=-758/0 2, 8-32=-217/54 28, 5-34=-74/44 11-36=-137/85 09, 21-37=-11/ , 15-39=-88/44 considered for	, 1, 5,	 All 9) Tru bra Tru bra Gal Thi chc Thi chc * TI * TI on 3-0 chc Ti <li< td=""><td>plates ar ss to be ced agai ble studs s truss h rd live lc nis truss the botto 6-00 tall ord and a e RT16A ss to bea This con usider lat</td><td>e 2x4 fully sl nst late space as bee bad nor has be m cho by 2-0 ny oth USP of ring wannectio eral for</td><td>MT20 unless oth heathed from one eral movement for ad at 2-0-0 oc. an designed for a nconcurrent with een designed for rd in all areas wh 0-00 wide will fit er members, with connectors recon alls due to UPLIF on is for uplift only rces.</td><td>any other live loads a live load of 20.0p: lere a rectangle between the bottom h BCDL = 10.0psf. nmended to connec T at jt(s) 29, 19, an</td></li<>	plates ar ss to be ced agai ble studs s truss h rd live lc nis truss the botto 6-00 tall ord and a e RT16A ss to bea This con usider lat	e 2x4 fully sl nst late space as bee bad nor has be m cho by 2-0 ny oth USP of ring wannectio eral for	MT20 unless oth heathed from one eral movement for ad at 2-0-0 oc. an designed for a nconcurrent with een designed for rd in all areas wh 0-00 wide will fit er members, with connectors recon alls due to UPLIF on is for uplift only rces.	any other live loads a live load of 20.0p: lere a rectangle between the bottom h BCDL = 10.0psf. nmended to connec T at jt(s) 29, 19, an
ORCES OP CHORD	3-41=-164/190, 3-4=	C 14) C 40), 27=381 (LC 3 C 40) pression/Maximum /159, 40-41=-169/17 -606/161, 4-5=-548/	+), Va (9), Ca 1-8 17 2, rig 185, for	nd: ASCE 7-10; Vult=130 sd=103mph; TCDL=6.0ps t. II; Exp B; Enclosed; MV ee and C-C Exterior (2) -1 -0 to 4-0-7, Exterior (2) 4 6-10 to 20-0-0, Exterior (titlever left and right expo t exposed;C-C for memb reactions shown; Lumber	f; BCDL=6 /FRS (env -4-0 to 1-8 0-7 to 17- 2) 20-0-0 t sed ; end ers and fo	6.0psf; h=25ft; relope) exterior 8-0, Interior (1) 6-10, Interior (1) o 23-0-0 zone; vertical left and rces & MWFRS		or t bot		tation o d.	of the purlin along	
30T CHORD	8-42=-384/206, 8-43 9-43=-384/206, 9-10 10-11=-540/273, 11 12-13=-709/157, 13 14-44=-153/200, 44 15-45=-174/190, 15 16-17=0/63, 2-30=-3	=-384/206, 12=-580/201, 14=-124/248, 45=-155/192, 16=-169/175, 122/230, 16-18=-269, 140/551, 47=-140/551, 17=-22/408, 13=0/453, 21-22=0/43	3) Tr on se or 4) TC 232 Lu 5) Un 5) Un de de 53, loa	L=1.60 iss designed for wind load y. For studs exposed to v a Standard Industry Gable consult qualified building v LL: ASCE 7-10; Pr=20.0 L=1.15 Plate DOL=1.15) mber DOL=1.15 Plate DOL y Exp.; Ct=1.10 balanced snow loads hav sign. s truss has been designed d of 12.0 psf or 1.00 time rrhangs non-concurrent w	vind (norm End Deta designer a osf (roof lin Pf=20.0 p L=1.15); C e been co d for great s flat roof l	hal to the face), ills as applicable s per ANSI/TPI ve load: Lumber issf (flat roof sno Category II; Exp nsidered for this her of min roof li oad of 20.0 psf	e, 1. r ww: B; s ve		Mannana.		SEA 0363	22 EER. A.

Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	G02	Piggyback Base	2	1	Job Reference (optional)	E15498415

Run: 8.43 S Mar 4 2021 Print: 8.430 S Mar 4 2021 MiTek Industries, Inc. Mon Mar 15 12:35:55 ID:3DkMEbFjaWAFnj9Go29u0Lzanq6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

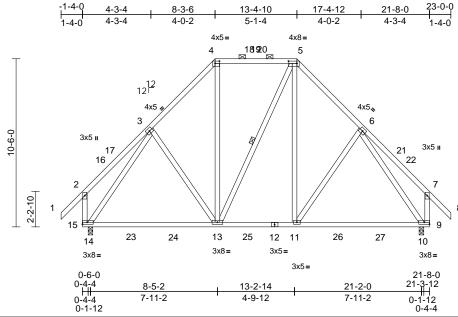


Plate Offsets (X, Y): [4:0-3-4,0-1-12], [5:0-6-4,0-1-12]

Scale = 1:71.9

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	0.67	Vert(LL)	-0.10	13-14	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.20	13-14	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.02	10	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 174 lb	FT = 20%

LUMBER		2)
TOP CHORD	2x4 SP No.2	
BOT CHORD	2x4 SP No.2	
WEBS	2x4 SP No.3 *Except* 13-5:2x4 SP No.2	
BRACING		
TOP CHORD	Structural wood sheathing directly applied or 5-10-15 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.	
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.	
WEBS	1 Row at midpt 5-13	3)
REACTIONS	(size) 10=0-3-8, 14=0-3-8	
	Max Horiz 14=-312 (LC 12)	
	Max Uplift 10=-107 (LC 15), 14=-107 (LC 14)	4)
	Max Grav 10=1114 (LC 40), 14=1114 (LC 40)	
FORCES	(lb) - Maximum Compression/Maximum Tension	5)
TOP CHORD	1-2=0/63, 2-16=-230/146, 16-17=-167/158,	
	3-17=-167/177, 3-4=-821/266,	6)
	4-18=-480/246, 18-19=-480/246,	7)
	19-20=-480/246, 5-20=-480/246,	
	5-6=-821/265, 6-21=-167/177,	8)
	21-22=-167/158, 7-22=-230/146, 7-8=0/63,	
BOT CHORD	2-15=-318/218, 7-9=-317/218	
BOICHORD	14-15=0/100, 14-23=-172/640, 23-24=-172/640, 13-24=-172/640,	0)
	13-25=-46/524, 12-25=-46/524,	9)
	11-12=-46/524, 11-26=-6/520, 26-27=-6/520,	
	10-27=-6/520, 9-10=0/100	
WEBS	3-13=-156/212, 4-13=-73/284,	10
	5-13=-115/116, 5-11=-92/346, 6-11=-156/212,	
	3-14=-911/51, 6-10=-910/51	
NOTES		LC

Unbalanced roof live loads have been considered for

1)

this design.

Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -1-4-0 to 1-8-0, Interior (1) 1-8-0 to 4-0-7, Exterior (2) 4-0-7 to 17-6-9, Interior (1) 17-6-9 to 20-0-0, Exterior (2) 20-0-0 to 23-0-0 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber

- DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- i) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- 7) 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, with BCDL = 10.0psf.
- One RT16A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 14 and 10. This connection is for uplift only and does not consider lateral forces.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	G03	Piggyback Base	1	1	Job Reference (optional)	E15498416

Run: 8.43 S Mar 4 2021 Print: 8.430 S Mar 4 2021 MiTek Industries, Inc. Mon Mar 15 12:35:56 ID:baDqAtePofKaEnBcETFdrlzanpb-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

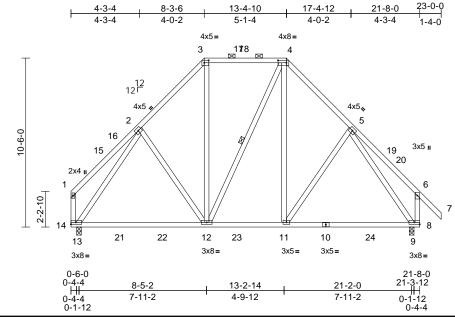


Plate Offsets (X, Y): [3:0-3-4,0-1-12], [4:0-6-4,0-1-12]

1 Row at midpt

Tension

6-8=-319/218

8-9=0/100

Max Horiz 13=-300 (LC 10)

4-12

9=0-3-8, 13=0-3-8

Max Uplift 9=-106 (LC 15), 13=-77 (LC 14) Max Grav 9=1118 (LC 40), 13=1021 (LC 40)

(Ib) - Maximum Compression/Maximum

6-20=-232/147, 6-7=0/63, 1-14=-225/107,

10-11=-5/524, 10-24=-5/524, 9-24=-5/524,

4-12=-113/117, 4-11=-92/348, 5-11=-156/213,

1-15=-229/97. 15-16=-177/101.

3-17=-482/247, 17-18=-482/247, 4-18=-482/247, 4-5=-826/266,

5-19=-169/177, 19-20=-169/158,

21-22=-169/652, 12-22=-169/652,

12-23=-45/528, 11-23=-45/528,

2-12=-164/210, 3-12=-72/292,

2-13=-905/90, 5-9=-915/49

1) Unbalanced roof live loads have been considered for

13-14=0/87, 13-21=-169/652,

2-16=-156/117, 2-3=-831/270,

Scale = 1:71.6

WEBS

FORCES

TOP CHORD

BOT CHORD

WEBS

NOTES

this design.

REACTIONS (size)

Loading TCLL (roof)	(psf) 20.0	Spacing Plate Grip DOL	2-0-0 1.15		CSI TC	0.67	DEFL Vert(LL)	in -0.11	(loc) 9-11	l/defl >999	L/d 240	PLATES MT20	GRIP 244/190
Snow (Pf)	20.0	Lumber DOL	1.15		BC	0.54	Vert(CT)	-0.20	9-11	>999	180	-	
TCDL	10.0	Rep Stress Incr	YES		WB	0.88	Horz(CT)	0.02	9	n/a	n/a		
BCLL	0.0*	Code	IRC2015/	/TPI2014	Matrix-MSH								
BCDL	10.0											Weight: 171 lb	FT = 20%
LUMBER 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) TOP CHORD 2x4 SP No.2 Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; BOT CHORD 2x4 SP No.2 Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior WEBS 2x4 SP No.3 *Except* 12-4:2x4 SP No.2 cat. II; Exp B; Enclosed; MWFRS (envelope) exterior BRACING 3-1-12 to 4-0-7, Exterior (2) 0-1-12 to 3-1-12, Interior (1) TOP CHORD Crustwal wood exertise directly explicited													
TOP CHORD	Structural wood she 5-10-12 oc purlins, 2-0-0 oc purlins (6-0 Rigid ceiling directly bracing.	except end verticals 0-0 max.): 3-4.	s, and c	cantilever left right expose for reactions DOL=1.60	ft and right expos d;C-C for membe shown; Lumber	ed ; end ; ers and fo DOL=1.6	vertical left ar rces & MWFI) plate grip	nd RS					

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

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

- This truss has been designed for greater of min roof live 5) load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- One RT16A USP connectors recommended to connect 9) truss to bearing walls due to UPLIFT at jt(s) 13 and 9. This connection is for uplift only and does not consider lateral forces.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

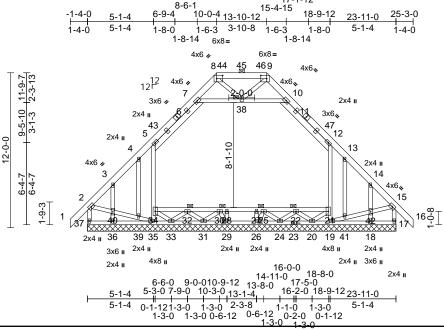




Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	A01	Attic Supported Gable	1	1	Ich Reference (ontional)	E15498417

Page: 1

Run: 8,43 S Mar 4 2021 Print: 8,430 S Mar 4 2021 MiTek Industries. Inc. Mon Mar 15 12:35:16 ID:SeB4K7eHufP7JGViWcGi7IzansB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale =	1:89.3
---------	--------

Plate Offsets ((X, Y): [8:0-	5-8,0-3-0],	[9:0-5-8,0-3-0]					-3-0 1-3-0)						
Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL		(psf) 20.0 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2	015/TPI2014	CSI TC BC WB Matrix-MSH	0.15 0.13 0.24	Vert(CT)	in n/a n/a 0.01	(lo	oc) l/defl - n/a - n/a 17 n/a	999	MT20	GRIP 244/1 b FT = 2	90
LUMBER TOP CHORD BOT CHORD BRACING TOP CHORD JOINTS REACTIONS	2x4 SP No 2x4 SP No 2x4 SP No Structural 6-0-0 oc p 2-0-0 oc p Rigid ceilli bracing. 1 Brace ai 22, 30, 25 (size) Max Horiz Max Uplift Max Grav	b.2 b.3 *Excep b.3 wood she burlins, ex burlins (6-C ng directly t Jt(s): 32, 5, 38 17=23-11 24=23-11 24=23-11 36=23-11 36=23-11 36=23-11 36=23-11 36=23-11 17=-71 (L 17=-70 (L 19=459 (L 24=253 (L 29=266 (L) 33=268 (L) 33=28 (L) 34=28 (L) 34=28 (L) 35=28 (L) 35=28 (L) 35=28 (L) 35=28 (L) 35=28 (L) 35=28 (L) 35=28 (L	athing directly applie cept end verticals, ar l-0 max.): 8-9. applied or 6-0-0 oc -0, 18=23-11-0, -0, 20=23-11-0, -0, 20=23-11-0, -0, 35=23-11-0, -0, 35=23-11-0, -0, 35=23-11-0 [C 12], 18=-112 (LC - (LC 14), 37=-83 (LC - LC 14), 37=-83 (LC - 2C 42), 18=169 (LC 3) -C 52), 20=258 (LC 2) -C 21), 26=266 (LC 2) -C 21), 26=263 (LC 2) -C 21), 26=263 (LC 2) -C 23), 37=709 (LC 4) pression/Maximum	15), 14), 10) 30), 21), 21), 21), 30),	TOP CHORD BOT CHORD WEBS	$\begin{array}{l} 2.37 = -694/85, \\ 3.4 = -622/114, \\ 4.5 + 6-303/68, \\ 4.5 + 60 = -303/68, \\ 10 - 11 = -567/16, \\ 12 - 47 = -712/13, \\ 13 - 14 = -622/10, \\ 15 - 16 = 0/63, \\ 15 - 36 - 37 = -311/30; \\ 33 - 35 = -82/426, \\ 29 - 31 = -37/219, \\ 24 - 26 = -39/220, \\ 20 - 23 = -48/32, \\ 20 - 23 = -48/32, \\ 20 - 31 = -37/219, \\ 24 - 26 = -39/246, \\ 22 - 25 = -25/207, \\ 24 - 26 = -39/246, \\ 22 - 25 = -25/207, \\ 24 - 26 = -39/449, \\ 36 - 32 = -36/42, \\ 35 - 34 = -69/449, \\ 35 - 34 = -69/449, \\ 35 - 34 = -69/449, \\ 35 - 34 = -69/449, \\ 35 - 34 = -69/449, \\ 35 - 34 = -86/450, \\ 5 - 34 = -48/27, \\ 32 - 33 = -128/10, \\ 31 - 32 = -159/0, \\ 24 - 25 = -30/0, \\ 24 - 25 = -30/0, \\ 29 - 38 = -41/103, \\ 36 - 40 = -223/14, \\ 14 - 42 = -211/117, \\ \end{array}$	4-5=-520/11 6-7=-567/ 44-45=-303 9-46=-303 1, 11-47=-5 4, 12-13=-5 4, 12-13=-5 4, 12-13=-5 4, 12-13=-5 4, 12-13=-5 3, 35-36=-33 31-33=-34 26-29=-43 23-24=-48 19-20=-77 15-42=-72 10-35=-42 34-35=-42 19-21=-45 3, 19-41=-7 15-42=-72 10-38=-22 20-21=-16 20-22=-12 22-24=-167 29-30=-73/0 6-27=-90/0 4, 13-41=-2	23, 5-43=-71 161, 7-8=-39 //68, 9-10=-3 7/0/149, 120/111, 129/105, 6 11/303, //344, //185, //352, //424, 11/32-34=-1 //246, 12426, 12426, 12426, 12426, 12426, 12426, 12427, 14/155, 10/170, 12/451, 1/450, 10/170, 12/451, 1/450, 10/170, 12/451, 1/450, 10/170, 12/451, 1/450, 10/170, 12/451, 1/450, 10/170, 12/451, 1/450, 10/170, 12/451, 1/450, 10/170, 12/451, 1/450, 10/170, 12/451, 1/450, 10/170, 12/451, 1/450, 10/170, 12/451, 1/450, 10/170, 12/451, 1/450, 10/170, 12/451, 1/450, 10/170, 12/451, 1/450, 10/170, 1	2/134, 2/85, 92/85, 9/153, 5/24, /0, 03,	3)4)5)	Vasd=103/ Cat. II; Exp zone and (1-11-5 to 5 18-1-11 to zone; cant and right e MWFRS fc grip DOL= Truss desis only. For s see Standd or consult TCLL: ASC DOL=1.15 Lumber DC Fully Exp.; Unbalance design.	mph; T b B; En C-C Ex i-9-5, E 21-11- ilever li k xposed or react 1.60 gned fo studs e ard Ind qualifie CE 7-10 Plate I DL=1.1 Ct=1.' d snov	or loads have be	CDL=6.0p: S (envelop to 1-11-5, 5 to 18-1-1- 21-11-11 posed ; en ers and fc mber DOL the plane (normal tt d Details a gner as per roof live lo 20.0 psf (f 15); Cates en consid	sf; h=25ft; be) exterior Interior (1) 11, Interior (1) 12, Interior (1) to 25-3-0 d vertical left prces & =1.60 plate of the truss to the face), as applicable, or ANSI/TPI 1. ad: Lumber flat roof snow: gory II; Exp B;
					NOTES	d roof live loads	have been	considered f	or			1	A.En.	-R	in E

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



Unummin March 15,2021

Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	A01	Attic Supported Gable	1	1	Job Reference (optional)	E15498417
Carter Components Chesapeake	VA - 23323	Run: 8 43 S Mar 4 20)21 Print: 8 4	30 S Mar 4 3	2021 MiTek Industries Inc. Mon Mar 15 12:35:16	Page: 2

ID:SeB4K7eHufP7JGViWcGi7IzansB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Carter Components, Chesapeake, VA - 23323,

- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 7) Provide adequate drainage to prevent water ponding.
- 8) All plates are 3x5 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing. 9)
- 10) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 11) Gable studs spaced at 2-0-0 oc.
- 12) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 13) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 14) Ceiling dead load (5.0 psf) on member(s). 5-7, 10-12, 7-38, 10-38; Wall dead load (5.0psf) on member (s).5-34, 12-21
- 15) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 37, 17, 35, 19, 36, and 18. This connection is for uplift only and does not consider lateral forces.
- 16) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 17) Attic room checked for L/360 deflection.

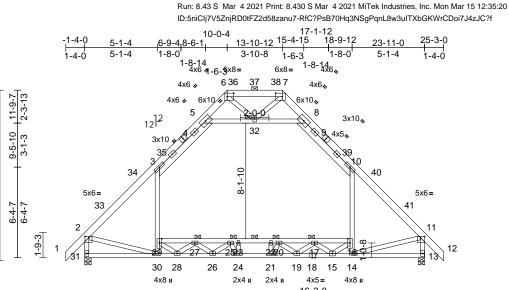
LOAD CASE(S) Standard

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Page: 2

Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	A02	Attic	5	1	Job Reference (optional)	E15498418



 16-2-04x\$8-9-12

 14-11-0

 14-11-0

 14-11-0

 14-11-0

 14-11-0

 14-11-0

 14-11-0

 14-11-0

 14-11-0

 13-10

 5-1-4

 5-1-4

 5-1-4

 1-10

 1-10

 1-10

 1-10

 1-10

 1-10

 1-10

 1-10

 1-10

 1-10

 1-10

 1-10

 1-10

 1-10

 1-10

 1-10

 1-10

 1-10

 1-10

 1-10

 1-10

 1-10

 1-10

 1-10

 1-10

Scale = 1:81

Plate Offsets (X, Y): [2:0-3-4,0-1-0], [6:0-5-8,0-3-0], [7:0-5-8,0-3-0], [11:0-3-4,0-1-0]

12-0-0

			,,, [-	
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	0.80	Vert(LL)		22-23	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.39		>718	180		210.000
TCDL	10.0	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.05	13	n/a	n/a	1	
BCLL	0.0*	Code	IRC2015/TPI20		0.01	Attic		16-29	>999	360		
BCDL	10.0	Code	11(02013/11/120			Auto	-0.12	10-23	2000	500	Weight: 242 II	o FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD JOINTS REACTIONS	2x6 SP 2400F 2.0E 6-7,3-5,8-10:2x6 SP 2x4 SP No.2 *Excep 2x4 SP No.3 *Excep Structural wood she 6-0-0 oc purlins, ex 2-0-0 oc purlins (10- Rigid ceiling directly bracing. Except: 3-6-0 oc bracing: 20 3-9-0 oc bracing: 25 5-10-0 oc bracing: 2 1 Brace at Jt(s): 32, 27, 17, 25, 20 (size) 13=0-5-4, Max Horiz 31=-335 (No.2 ['] t* 31-18:2x4 SP No.2 t* 5-8:2x4 SP No.2 athing directly applie- cept end verticals, ar 0-0 max.): 6-7. applied or 10-0-0 oc -25 -27, 17-20 7-29, 16-17 31=0-5-8 LC 12)	d or d 1) Unba this d 2) Wind Vasd: Cat. I zone 1-8-0 18-1- cantil	29-30=-187/75, 10-16=0/793, 5- 8-32=-1701/134 6-32=-118/190, 28-29=0/1151, 1 15-17=-1105/0, 25-26=-526/0, 1 20-21=-39/258, 21-22=-177/36 anced roof live loads h ssign. ASCE 7-10; Vult=130r =103mph; TCDL=6.0ps ; Exp B; Enclosed; MW and C-C Exterior (2) -1 to 5-9-5, Exterior (2) -1 1to 22-3-0, Exterior (2)	32=-1702/, 2-30=0/1 7-32=-118 5-16=0/11 26-27=0/6 9-20=-528 23-24=-17 ave been mph (3-sec f; BCDL=6 //FRS (env -4-0 to 1-8 9-5 to 18 2) 22-3-0 tr	136, 047, 11-14=0, /190, 55, 27-28=-1 02, 17-19=0/(/0, 24-25=-38 7/34, considered fo cond gust) 6.0psf; h=25ft; elope) exteric -0, Interior (1] -11, Interior o 25-3-0 zone	/1051, 108/0, 602, 3/259, or ; ; or) (1) 3;	on 1 3-0 cho 10) Cei 5-3 10- 11) Bot cho 25- 12) Gra or t bot	the bottc 6-00 tall ord and a ling dea 2, 8-32; 16 tom cho ord dead 27, 23-2 aphical p he orien tom cho c room c	om cho by 2-0 any oth d load Wall d load (5 5, 22-2 urlin re tation o rd. checked	een designed fc rd in all areas v 0-00 wide will fi er members. (5.0 psf) on me dead load (5.0ps load (40.0 psf) 5.0 psf) applied 23, 20-22, 17-20 epresentation do of the purlin aloo d for L/360 defi-	or a live load of 20.0psf where a rectangle it between the bottom mber(s). 3-5, 8-10, sf) on member(s).3-29, and additional bottom only to room. 27-29, 0, 16-17 bes not depict the size ing the top and/or
FORCES	Max Grav 13=1780 (Ib) - Maximum Com Tension		for rea	exposed;C-C for memb actions shown; Lumber			RS					11.000
TOP CHORD	1-2=0/63, 2-33=-173 3-34=-1567/0, 3-35= 4-35=-1111/106, 4-5 6-36=0/545, 36-37=(9-39=-1111/106, 10- 10-40=-1565/0, 40-4 11-41=-1735/0, 11-1 11-13=-1732/0 30-31=-317/458, 28- 26-28=0/2734, 24-22 19-21=0/3449, 18-19	-1151/102, =-862/139, 5-6=-164)/545, 37-38=0/545, 4/367, 8-9=-861/139 39=-1151/102, 1=-1599/0, 2=0/63, 2-31=-1732/ 30=-39/1215, 5=0/3448, 21-24=0/3 3=0/2580, 15-18=0/2 4=-49/189, 27-29=-9 5=-2714/0,	DOL= /367, Lumb Fully Unba desig 5) 0, 5) 55) This t 100, 1000 553, 7) 800, 8) 200, 8)	ASCE 7-10; Pr=20.0 p 1.15 Plate DOL=1.15); er DOL=1.15 Plate DO Exp.; Ct=1.10 anced snow loads hav	Pf=20.0 p L=1.15); C e been cor d for great s flat roof le rith other li o prevent ss otherwid d for a 10.	sf (flat roof sr category II; Ex ansidered for th er of min roof boad of 20.0 pr ve loads. water ponding se indicated. 0 psf bottom	now: kp B; his f live sf on g.		A CHINE		SE/ 0363	NEER.K

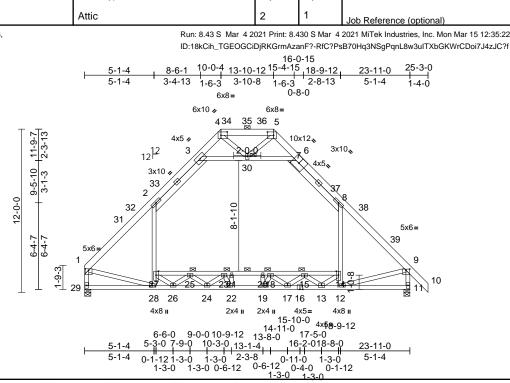
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

818 Soundside Road Edenton, NC 27932 Page: 1

Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	A03	Attic	2	1	Job Reference (optional)	E15498419

Run: 8,43 S Mar 4 2021 Print: 8,430 S Mar 4 2021 MiTek Industries, Inc. Mon Mar 15 12:35:22

Page: 1



Scale = 1:84.7

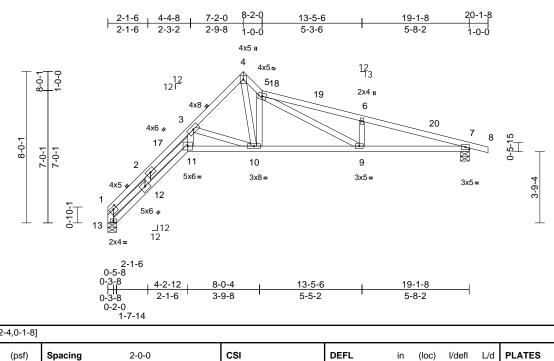
						<u>1-3-0 1-3-0</u>							
X, Y): [1:0-3-0,0-1-4],	[4:0-5-8,0-3-0], [5:0-	5-8,0-3-0	, [7:0-6-0,0-4	-12], [9:0-3-4,0-1-0]							-		
(psf) 20.0 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	5/TPI2014	CSI TC BC WB Matrix-MSH	0.80 0.79 0.62	DEFL Vert(LL) Vert(CT) Horz(CT) Attic	-0.40 0.05	20-21 11	l/defl >999 >715 n/a >999	L/d 240 180 n/a 360	PLATES MT20 Weight: 238	GRIP 244/1 b FT = 3	90
SP No.2 2x4 SP No.2 *Excep 2x4 SP No.3 *Excep Structural wood she 6-0-0 oc purlins, ex 2-0-0 oc purlins (10- Rigid ceiling directly bracing. Except: 3-6-0 oc bracing: 18 3-9-0 oc bracing: 23 5-10-0 oc bracing: 2 1 Brace at Jt(s): 30, 25, 15, 23, 18	t* 29-16:2x4 SP No. t* 3-6:2x4 SP No.2 athing directly applie cept end verticals, ar 0-0 max.): 4-5. applied or 10-0-0 oc -23 -25, 15-18 5-27, 14-15	2x6 I Id or Id N(1)	OTES Unbalance this design Wind: ASC Vasd=103 Cat. II; Exp zone and (8-14=0/793, 3-30= 6-30=-1704/136, 1 4-30=-11704/136, 1 4-30=-119/188, 5- 26-27=0/1152, 13 13-15=-1105/0, 24 23-24=-526/0, 17- 18-19=-40/262, 21 19-20=-179/36 d roof live loads hav E 7-10; Vult=130m mph; TCDL=6.0psf; B; Enclosed; MWF C-C Exterior (2) 0-1	1697/1: -28=0/10 30=-117, -14=0/11 -25=0/60 18=-529, -22=-17 /// ve been of bh (3-seco BCDL=6 RS (env) 12 to 3-1	34, 045, 9-12=0/- (190, 54, 25-26=-1 02, 15-17=0/t (0, 22-23=-38 7/35, considered for sond gust) 6.0psf; h=25ft elope) exterior i-12, Interior	1053, 107/0, 503, b/258, or ; or (1)	on 1 3-00 cho 10) Cei 6-30 11) Bot cho 23-1 12) Gra or ti bott 13) Attie	the botto 6-00 tall ord and a ling dead 0; Wall d tom choi ord dead 25, 21-2 aphical pi he orient tom chor c room c	m cho by 2-0 ny oth d load dead le rd live load (3, 20-2 urlin re tation d. hecke	een designed f rrd in all areas 00-00 wide will eer members. (5.0 psf) on me oad (5.0psf) or load (40.0 psf) 5.0 psf) applied 21, 18-20, 15-1 epresentation c of the purlin alc d for L/360 def	or a live lo where a re fit between ember(s). member(and addit d only to ro 8, 14-15 loes not do ong the top	pad of 20.0psf ectangle n the bottom 2-3, 6-8, 3-30, s).2-27, 8-14 ional bottom poom. 25-27, epict the size
	LC 10) (LC 48), 29=1704 (L0 pression/Maximum 2=-1601/0, 2-32=-156 33=-941/147, -0/543, 34-35=0/543, 0/543, 5-6=-166/366, 1007/139, 38=-1568/0, 9=-1738/0, 9-10=0/63 =-1735/0 -28=-39/1224, 4=0/3449, 19-22=0/3 7=0/2580, 13-16=0/2 2=-50/189, 25-27=-9; 23=-2715/0,	, 5) 554, 6) 580, 7)	18-1-11 to cantilever right expos for reaction DOL=1.60 TCLL: ASC DOL=1.15 Lumber DC Fully Exp.; Unbalance design. This truss load of 12. overhangs Provide ac All plates a This truss	22-3-0, Exterior (2) eft and right expose sed;C-C for member is shown; Lumber D CE 7-10; Pr=20.0 ps Plate DOL=1.15); P DL=1.15 Plate DOL= Ct=1.10 d snow loads have has been designed 0 psf or 1.00 times f non-concurrent witt equate drainage to re 3x5 MT20 unless has been designed	22-3-0 to s and for S and for ODL=1.60 f (roof livit f=20.0 p =1.15); C been cor for greated lat roof lo n other livit prevent v s otherwit for a 10.0	b 25-3-0 zone vertical left ar vertical left ar vertical left ar vertical left ar vertical left ar vertical left ar vertical left ar sidered for the er of min roof bad of 20.0 p vertical vertical vertical left ar vertical le	e; d S er now: cp B; his f live sf on g.		Within	55	FES	201.	A REAL PROVIDENCE AND A
	(psf) 20.0 20.0 10.0 0.0* 10.0 0.0* 10.0 0.0* 10.0 2x6 SP 2400F 2.0E SP No.2 2x4 SP No.2 *Excep 2x4 SP No.2 *Excep 2x4 SP No.3 *Excep Structural wood she 6-0-0 oc purlins, ex 2-0-0 oc purlins, ex 2-0-0 oc purlins, ex 2-0-0 oc purlins, ex 2-0-0 oc bracing: 18 3-9-0 oc bracing: 23 5-10-0 oc bracing: 23 3-9-0 oc bracing: 23 5-10-0 oc bracing: 23 3-10-0 oc bracing: 23 5-10-0 oc bracing: 23 3-10-0 oc bracing: 2	(psf) Spacing 20.0 Plate Grip DOL 10.0 Plate Grip DOL 10.0 Rep Stress Incr 0.0* Code 10.0 Rep Stress Incr 0.0* Code 10.0 Rep Stress Incr 0.0* Code 2x6 SP 2400F 2.0E *Except* 4-5,2-3,6-8: SP No.2 2x4 SP No.2 *Except* 29-16:2x4 SP No.1 2x4 SP No.2 *Except* 29-16:2x4 SP No.2 Structural wood sheathing directly applies 6-0-0 oc purlins, except end verticals, ar 2-0-0 oc purlins (10-0-0 max.): 4-5. Rigid ceiling directly applied or 10-0-0 oc bracing: Except: 3-6-0 oc bracing: 18-23 3-9-0 oc bracing: 25-27, 14-15 1 Brace at Jt(s): 30, 25, 15, 23, 18 (size) 11=0-5-4, 29=0-5-8 Max Horiz 29=-323 (LC 10) Max Grav 11=1783 (LC 48), 29=11704 (LC (lb) - Maximum Compression/Maximum Tension 1-31=-1737/0, 31-32=-1601/0, 2-32=-156 2-33=-1120/112, 3-33=-941/147, 3-4=-166/363, 4-34=0/543, 3-6==166/366, <	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	X, Y): [1:0-3-0,0-1-4], [4:0-5-8,0-3-0], [5:0-5-8,0-3-0], [7:0-6-0,0-4-12], [9:0-3-4,0-1-0](pst) 20.0 20.0 20.0 10.0 10.0 10.0Spacing Plate Grip DOL 1.15 Rep Stress Incr YES CodeCSI BC DC Matrix-MSH2x6 SP 2400F 2.0E *Except* 4-5,2-3,6-8:2x6 SP No.2WEBS 27-28=-201/88, 2-27=0/78 8-14=0/793, 3-30=1697/11 3-30=1697/11 3-30=117/3/10, 24-25=0/62x6 SP 2400F 2.0E *Except* 4-5,2-3,6-8:2x6 SP No.2WEBS 27-28=-201/88, 2-27=0/78 8-14=0/793, 3-30=1697/11 3-30=117/3/136, 1-28=0/11 3-6-0 co bracing: 18-23 3-9-0 co bracing: 25-27, 14-15 1 Brace at Jt(s): 30, 25, 15, 23, 18 (size)WEBS 11=0-5-4, 29=-05-8 11=1737/0, 31-32=-1601/0, 2-32=-1567/0, 3-3=-01/71/3, 31-28=01/12 2-33=-1120/112, 3-33=-941/147, 3-4=166/363, 4-34=0/543, 34-35=0/543, 3-39=-1602/0, 9-39=-1738/0, 9-10=0/63, 1-29=-1555/0, 9-11=-1735/0WEBS 27-282/152, 12-28-107 2-20=-179/36NOTESNOTES1) Unbalanced for of live loads have been of this design.10 Unbalanced for of live loads have been of this design.2011=0-5-4, 29=-05-8 1 Brace at Jt(s): 30, 2-33=-1120/112, 3-33=-941/147, 3-4=166/363, 4-34=0/543, 3-43=0/543, 3-39=-1602/0, 9-39=-1738/0, 9-10=0/63, 1-29=-155/0, 9-11=1735/03011=0-54, 29=-05-8 1 Ba-111 to 22-3-0, Exterior (2) 22-3-0 the this design.3111=1783 (LC 48), 29=1704 (LC 48) (23==1120/112, 3-33=-941/147, 3-3==0/143, 3-28=-0/5630, 38-39=-1602/0, 9-39=-1738/0, 9-10=0/63, 1-29=-294/433, 26-28=-39/1224, 224=0/2743, 22-24=0/3449, 19-22=0/3554, 1-13=1737/0, 31-32=-166/366, 42-26=0/2743, 22-24=0/3449, 19-22=0/3554, 1-129=002, 9-31120/112, 3-160/107, 23=-160/2580, 3-11-20/2580, 13-16=0/2580, 3-160/	X, Y): [1:0-3-0,0-1-4], [4:0-5-8,0-3-0], [5:0-5-8,0-3-0], [7:0-6-0,0-4-12], [9:0-3-4,0-1-0] (pst) Spacing 2-0-0 CSI DEFL 20.0 Lumber DOL 1.15 BC 0.79 10.0 Pate Grip DOL 1.15 BC 0.79 0.0 0.0° Code IRC2015/TPI2014 Matrix-MSH Vert(LT) 2x6 SP 2400F 2.0E *Except* 4-5,2-3,6-8:2x6 SP 44=0/793, 3-30=-1697/134, 45-30=-1704/136, 1-28=0/1045, 9-12=0/7 Attic 2x4 SP No.2 2x4 SP No.2 *Except* 3-6:2x4 SP No.1 2x4 SP No.2 *Except* 3-6:2x4 SP No.1 2x2=-526/002, 17-18=-5290, 22-22=-36 Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins, 10-0-0 max, 1-4.5. Pieze-11050, 24-22=-040062, 17-18=-05290, 22-22=-36 Sigic 11=0-5-4, 29=-0-5-8 WGH Sigic 11=0-5-4, 29=-0-5-8 Max Grav 11=1783 (LC 48), 29=-1704 (LC 48) (b) - Maximum Compression/Maximum Tension Sigic 23=-2207(313, 3-33=-941/147, 3-33=-941/14	X, Y): [1:0-3-0,0-1-4], [4:0-5-8,0-3-0], [5:0-5-8,0-3-0], [7:0-6-0,0-4-12], [9:0-3-4,0-1-0] (ps) Spacing 2-0-0 CSI DEFL in 20.0 Plate Grip DOL 1.15 TC 0.00 Vert(LL) -0.22 0.0.° Code IRC2015/TPI2014 BC 0.79 Vert(CL) -0.22 0.0.° Code IRC2015/TPI2014 Matrix-MSH DEFL in 2x6 SP 2400F 2.0E *Except* 4-5,2-3,6-8:2x6 $8^{-14=0/793}$, $3\cdot30-1697/134$, $4^{-52=-10/1045}$, $9\cdot12=-0/1053$, $2\cdot32$ Structural wood sheathing directly applied or 6-0-0 oc purlins, except and verticals, and 2-0-0 co tracing: 18-23 So the consing: 18-23 3-9-0 oc bracing: 23-25, 15-18 S-10-0 oc bracing: 18-23 So cor bracing: 23-25, 15-18 So cor bracing: 18-23 3-10 oc bracing: 23-32, 15-18 So cor bracing: 18-23 So cor bracing: 18-23 So cor bracing: 18-23 3-9-0 oc bracing: 18-23 So cor bracing: 18-23 So cor bracing: 18-23 So cor bracing: 18-23 3-9-0 oc bracing: 18-23 So	X, Y):[1:0-3-0,0-1-4], [4:0-5-8,0-3-0], [5:0-5-8,0-3-0], [7:0-6-0,0-4-12], [9:0-3-4,0-1-0](psf) 20.0 10.0Spacing Plate Grip DOL 1.15CCSI TCDEFLin(loc) Vert(LL) -0.2220.0 10.0Rep Stress Incr CodeYES (CodeWB0.62 Matrix-MSHDEFLin(loc) Vert(CT)2x6 SP 2400F 2.0E 2 X4 SP No.2*********************************	X, Y): [1:0-3-0,0-1-4], [4:0-5-8,0-3-0], [5:0-5-8,0-3-0], [7:0-6-0,0-4-12], [9:0-3-4,0-1-0] (psf) Spacing 2-0-0 CSI DEFL in (loc) //defl 20.0 Lumber DOL 1.15 BC 0.79 Vert(LL) -0.22 20-21 >999 10.0 Rep Stress Incr YES WB 0.62 Matrix-MSH Horz(CT) -0.40 20-21 >715 10.0 Code IRC2015/TPI2014 Matrix-MSH Attic -0.12 14-27 >999 2x6 SP 2400F 2.0E *Except* 4-5,2-3,6-8:2x6 8-14=0/793, 3-30=-1697/134, 9) * This truss 3-06-00 tall -0.12 -0.12 14-27 >999 -0.12 14-27 >999 -0.12 14-27 >999 -0.12 14-27 >999 -0.12 14-27 >999 -0.12 14-27 >999 -0.12 14-27 >999 -0.12 14-27 >999 -0.12 14-27 >999 -0.12 14-27 >999 -0.12 14-27 >999 -0.12 14-27 >999 -0.12 14-27 >999 -0.12 14-20 -0.22 -0.22 </td <td>X, Y): $[1:0-3-0,0-1-4], [4:0-5-8,0-3-0], [5:0-5-8,0-3-0], [7:0-6-0,0-4-12], [9:0-3-4,0-1-0] (pst) Spacing 2-0-0 (pst) Spacing 2-0-0 (1:0-0) Plate Grip DOL 1.15 DEFL in (loc) //defl L/d (1:0-0) Plate Grip DOL 1.15 BC 0.79 Wert(CT) -0.40 20-21 >715 180 (1:0-0) Qoid Indian (ndian (ndian$</td> <td>X, Y): [1:0-3-0,0-1-4]. [4:0-5-8,0-3-0]. [5:0-5-8,0-3-0]. [7:0-6-0,0-4-12]. [9:0-3-4,0-1-0] (psf) Plate Grip DOL 1.15 TC 0.80 Vert(LL) -0.22 20-21 >999 240 0.0.0 Lumber DOL 1.15 BC 0.79 Vert(CT) -0.40 20-21 >715 180 0.0.1 Code IRC2015/TPI2014 Matrix-MSH DEFL in (loc) //defl L/d PLATES 2x6 SP 2400F 2.0E *Except* 4-5,2-3,6-8:2x6 8-14-0/793, 3:301697/134, 6-30170/4136, 5-12-0/1045, 5-12-0/1053, 99 * This truss has been designed fn 2x4 SP No.2 Except* 3-6:2x4 SP No.1 26-27-0/1452, 1-28117/185, 4-25-66-1170/165, 0.22-2339/258, 19-20-179/36 10-06-00 trad up 4-00-00 max); 4-5. 19:20-179/36 100-06 trad up 4-00-00 max); 4-5. 19:20-179/36 10-02-179/36 100-00 max); 4-5. 10:10-161/24, 2-25-2-170/14, 2-12-2-177/35, 10:10-160, 2-22-2-39/258, 11:10-16-4, 2-29-0-5.8 11:11 Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-1-12 to 3-1-12, threatior (1) 10:10-10-10, 12-12, 12-11, 11:10-10(1) 11:10-22-3, 0.5:10-12, 12:10-12, 12:10-12, 12:10-12, 12:10-12, 12:10-12, 12:10-12, 12:10-12, 12:10-12, 12:10-12, 12:10-12, 12:10-12, 12:10-12, 12:10-1</td> <td>X, Y): [1:0-3-0,0-1-4]; [4:0-5-8,0-3-0]; [5:0-5-8,0-3-0]; [7:0-6-0,0-4-12]; [9:0-3-4,0-1-0] Spacing 2-0-0 CSI DEFL in (loc) //deft L/d PLATES GRIP 20.0 Umber DOL 1.15 BC 0.79 Vert(L1) -0.22 20:21 >999 240 MT20 244/1 20.0 Umber DOL 1.15 BC 0.79 Vert(L1) -0.42 20:21 >715 180 0.0* Code IRC2015/TPI2014 WB 0.62 11 n/a n/</td>	X, Y): $[1:0-3-0,0-1-4], [4:0-5-8,0-3-0], [5:0-5-8,0-3-0], [7:0-6-0,0-4-12], [9:0-3-4,0-1-0] (pst) Spacing 2-0-0 (pst) Spacing 2-0-0 (1:0-0) Plate Grip DOL 1.15 DEFL in (loc) //defl L/d (1:0-0) Plate Grip DOL 1.15 BC 0.79 Wert(CT) -0.40 20-21 >715 180 (1:0-0) Qoid Indian (ndian (ndian $	X, Y): [1:0-3-0,0-1-4]. [4:0-5-8,0-3-0]. [5:0-5-8,0-3-0]. [7:0-6-0,0-4-12]. [9:0-3-4,0-1-0] (psf) Plate Grip DOL 1.15 TC 0.80 Vert(LL) -0.22 20-21 >999 240 0.0.0 Lumber DOL 1.15 BC 0.79 Vert(CT) -0.40 20-21 >715 180 0.0.1 Code IRC2015/TPI2014 Matrix-MSH DEFL in (loc) //defl L/d PLATES 2x6 SP 2400F 2.0E *Except* 4-5,2-3,6-8:2x6 8-14-0/793, 3:301697/134, 6-30170/4136, 5-12-0/1045, 5-12-0/1053, 99 * This truss has been designed fn 2x4 SP No.2 Except* 3-6:2x4 SP No.1 26-27-0/1452, 1-28117/185, 4-25-66-1170/165, 0.22-2339/258, 19-20-179/36 10-06-00 trad up 4-00-00 max); 4-5. 19:20-179/36 100-06 trad up 4-00-00 max); 4-5. 19:20-179/36 10-02-179/36 100-00 max); 4-5. 10:10-161/24, 2-25-2-170/14, 2-12-2-177/35, 10:10-160, 2-22-2-39/258, 11:10-16-4, 2-29-0-5.8 11:11 Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-1-12 to 3-1-12, threatior (1) 10:10-10-10, 12-12, 12-11, 11:10-10(1) 11:10-22-3, 0.5:10-12, 12:10-12, 12:10-12, 12:10-12, 12:10-12, 12:10-12, 12:10-12, 12:10-12, 12:10-12, 12:10-12, 12:10-12, 12:10-12, 12:10-12, 12:10-1	X, Y): [1:0-3-0,0-1-4]; [4:0-5-8,0-3-0]; [5:0-5-8,0-3-0]; [7:0-6-0,0-4-12]; [9:0-3-4,0-1-0] Spacing 2-0-0 CSI DEFL in (loc) //deft L/d PLATES GRIP 20.0 Umber DOL 1.15 BC 0.79 Vert(L1) -0.22 20:21 >999 240 MT20 244/1 20.0 Umber DOL 1.15 BC 0.79 Vert(L1) -0.42 20:21 >715 180 0.0* Code IRC2015/TPI2014 WB 0.62 11 n/a n/



Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	E01	Roof Special	5	1	Job Reference (optional)	E15498420

Run: 8.43 S Mar 4 2021 Print: 8.430 S Mar 4 2021 MiTek Industries, Inc. Mon Mar 15 12:35:51 ID:Es8NuXyqMSI4AfynEKostCzaqCq-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:61	
Plate Offsets (X, Y):	[1:0-2-4,0-1-8]

Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	5/TPI2014	CSI TC BC WB Matrix-MSH	0.55 0.67 0.81	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.17 -0.34 0.35	(loc) 10-11 9-10 7	l/defl >999 >678 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 104 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood she 2-9-10 oc purlins, e Rigid ceiling directly bracing.	applied or 6-10-11 of 13=0-5-8 _C 14) .C 11), 13=-54 (LC 15	3)	Vasd=103mj Cat. II; Exp E zone and C- 3-11-13 to 5 9-0-1 to 17-1 cantilever lef right expose for reactions DOL=1.60 TCLL: ASCE DOL=1.15 P Lumber DOL	7-10; Vult=130mp ph; TCDL=6.0psf; 3; Enclosed; MWFI C Exterior (2) 0-11 -0-1, Exterior (2) 5- 11-9, Exterior (2) 1 ⁻ ft and right expose d;C-C for members shown; Lumber D E 7-10; Pr=20.0 psf late DOL=1.15; P =-1.15 Plate DOL=	BCDL=6 RS (env -13 to 3 -0-1 to 9 7-11-9 to 3 and fo OL=1.6 (roof liv f=20.0 p	6.0psf; h=25ft elope) exterio -11-13, Interior -0-1, Interior o 20-11-9 zor vertical left an rcces & MWFF 0 plate grip ve load: Lumb sf (flat roof sr	br br (1) (1) he; hd RS per how:				riogia: io no	
FORCES	(lb) - Maximum Com Tension		4)		snow loads have b	been coi	nsidered for th	his					
TOP CHORD	1-2=-2216/609, 2-17 3-17=-3439/852, 3-4 4-5=-1480/296, 5-18 18-19=-1965/317, 6-	4=-1177/210, 3=-1930/318,	5) 6) 15, 7)	load of 12.0 overhangs n This truss ha chord live loa	as been designed f psf or 1.00 times fl on-concurrent with as been designed f ad nonconcurrent v nas been designed	at roof l other li or a 10. vith any	bad of 20.0 p ve loads. 0 psf bottom other live loa	sf on Ids.					
BOT CHORD		,	")	on the bottor 3-06-00 tall b	n chord in all areas by 2-00-00 wide wi by other members.	s where Il fit betv	a rectangle				AN	TH CA	ROLIN
WEBS	3-11=-567/2049, 3-1 4-10=-292/1676, 5-1 5-9=-193/820, 6-9=- 1-12=-434/1650, 2-1 2-12=-416/142	0=-1086/243, 326/165,	8) 9)	Bearing at jo using ANSI/ designer sho One RT7A L	int(s) 13 considers TPI 1 angle to grain buld verify capacity JSP connectors rec ring walls due to UI	paralle formul of bear	a. Building ing surface. ded to conne	ct		1	in	SEA	L
NOTES 1) Unbalance this design	ed roof live loads have	been considered for	L		tion is for uplift only 3.					THUND	A A A A A A A A A A A A A A A A A A A	0363	L 22 ILBERTINI ILBERTINI

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

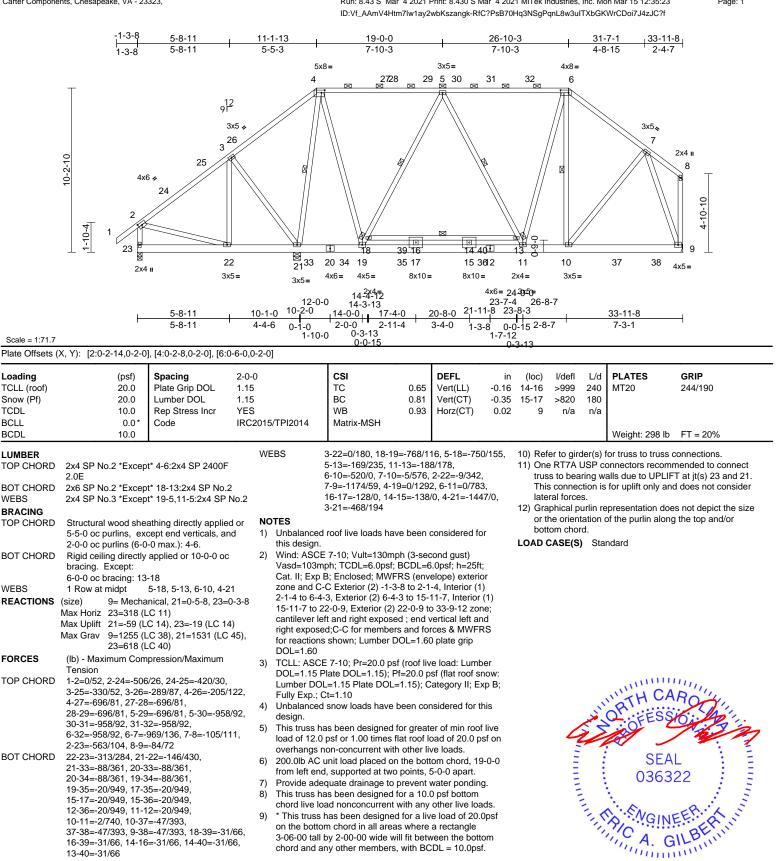
818 Soundside Road Edenton, NC 27932

March 15,2021

Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	B01	Piggyback Base	3	1	Job Reference (optional)	E15498421

Run: 8 43 S. Mar. 4 2021 Print: 8 430 S.Mar. 4 2021 MiTek Industries. Inc. Mon.Mar.15 12:35:23

Page: 1

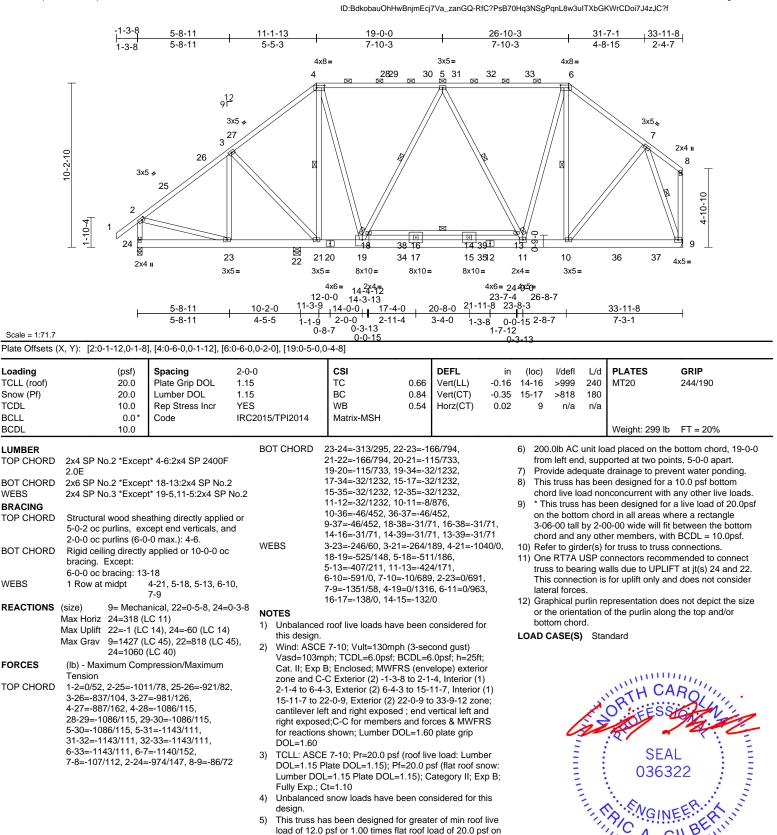


March 15,2021

Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	B09	Piggyback Base	1	1	Job Reference (optional)	E15498422

Run: 8 43 S. Mar. 4 2021 Print: 8 430 S.Mar. 4 2021 MiTek Industries. Inc. Mon.Mar.15 12:35:30

Page: 1



5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.

mmm March 15,2021

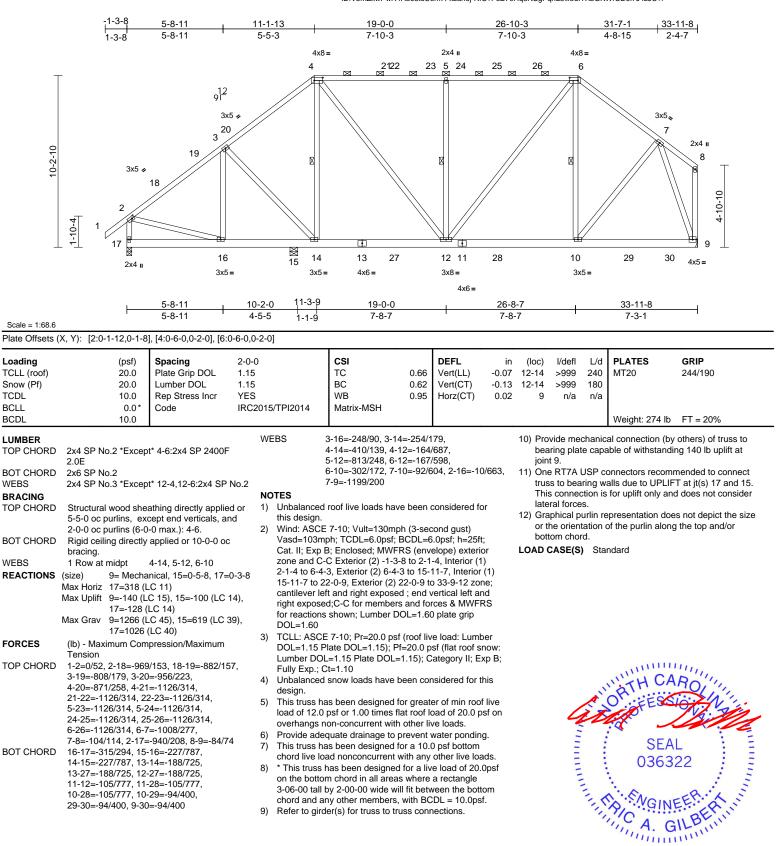
 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE
 Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall a duss system: plantietis and property incorporate dust using in the version of the second property incorporate and begin into version of the version of the



GI

Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	B10	Piggyback Base	1	1	Job Reference (optional)	E15498423

Run: 8.43 S Mar 4 2021 Print: 8.430 S Mar 4 2021 MiTek Industries, Inc. Mon Mar 15 12:35:31 ID:V5mZxwPwR4A3o8laUem7Fxzan6j-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **MSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



March 15,2021

Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	B02	Нір	1	1	Job Reference (optional)	E15498424

Loading

TCDL

BCLL

BCDL

WEBS

WEBS

FORCES

TOP CHORD

TOP CHORD

BOT CHORD

BRACING

TOP CHORD

BOT CHORD

REACTIONS (size)

2x4 SP No.2

2x4 SP No.2

2x4 SP No.3 *Except*

bracing, Except:

1 Row at midpt

Max Horiz

Max Uplift

Max Grav

Tension

6-0-0 oc bracing: 16-17.

18=0-3-8

18=359 (LC 11)

18=-105 (LC 14)

18=721 (LC 40)

3-20=-242/213, 3-21=-687/249,

4-5=-532/297, 5-23=-460/298,

6-23=-461/297, 6-24=-607/304

24-25=-606/304, 7-25=-605/304,

7-26=-748/308, 8-26=-846/270,

8-27=-548/200, 27-28=-583/192,

9-28=-650/190, 2-18=-425/241,

9-10=-1099/201

21-22=-669/254, 4-22=-548/275,

(lb) - Maximum Compression/Maximum

1-2=0/52, 2-19=-354/179, 19-20=-250/210,

16-5,16-6,6-13,12-6,12-7:2x4 SP No.2

2-0-0 oc purlins (6-0-0 max.): 5-7.

Structural wood sheathing directly applied or

5-1-10 oc purlins, except end verticals, and

3-18

10= Mechanical, 17=0-5-8,

10=-136 (LC 15), 17=-121 (LC 14),

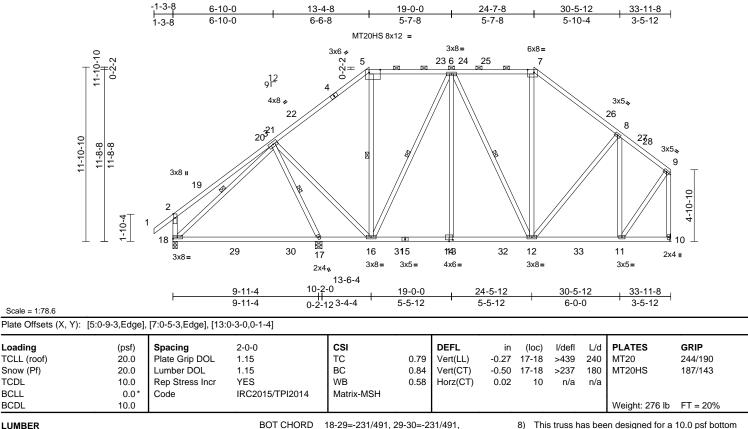
10=1112 (LC 40), 17=1180 (LC 46),

3-17, 5-16, 6-16, 6-12,

Rigid ceiling directly applied or 10-0-0 oc

Run: 8 43 S. Mar. 4 2021 Print: 8 430 S.Mar. 4 2021 MiTek Industries. Inc. Mon.Mar.15 12:35:25 ID:i0TSIH6xewrc2yzv2iH0YCzandN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



17-30=-231/491, 16-17=-255/200,

16-31=-156/703, 15-31=-156/703,

14-15=-156/703, 13-14=-156/703,

13-32=-156/703. 12-32=-156/703.

3-17=-1027/256, 3-16=-56/804,

6-12=-256/150, 7-12=-45/192,

8-12=-112/269, 8-11=-588/152

3-18=-422/139, 9-11=-102/858

Unbalanced roof live loads have been considered for

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

Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior

zone and C-C Exterior (2) -1-3-8 to 2-1-4, Interior (1)

2-1-4 to 8-6-14, Exterior (2) 8-6-14 to 18-2-2, Interior (1)

18-2-2 to 19-9-14, Exterior (2) 19-9-14 to 29-5-2, Interior

(1) 29-5-2 to 30-5-0. Exterior (2) 30-5-0 to 33-9-12 zone:

cantilever left and right exposed ; end vertical left and

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

TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber

Unbalanced snow loads have been considered for this

This truss has been designed for greater of min roof live

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

All plates are MT20 plates unless otherwise indicated.

overhangs non-concurrent with other live loads. Provide adequate drainage to prevent water ponding.

DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow:

Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B;

for reactions shown; Lumber DOL=1.60 plate grip

Wind: ASCE 7-10; Vult=130mph (3-second gust)

12-33=-91/499, 11-33=-91/499, 10-11=-64/72

5-16=-110/98, 6-16=-643/123, 6-13=0/333,

- chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf 9) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Refer to girder(s) for truss to truss connections.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 136 lb uplift at joint 10
- 12) One RT16A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 17. This connection is for uplift only and does not consider lateral forces
- 13) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 18. This connection is for uplift only and does not consider lateral forces
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



818 Soundside Road Edenton, NC 27932

Continued on page 2 Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE WARNING

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, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

WEBS

NOTES

this design.

DOL=1.60

design.

Fully Exp.; Ct=1.10

1)

2)

3)

4)

5)

6)

7)

Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	B02	Нір	1	1	Job Reference (optional)	E15498424
Carter Components, Chesapea	ke, VA - 23323,	Run: 8.43 S Ma	4 2021 Print: 8.	430 S Mar 4	2021 MiTek Industries, Inc. Mon Mar 15 12:35:25	Page: 2

Run: 8,43 S Mar 4 2021 Print: 8,430 S Mar 4 2021 MiTek Industries, Inc. Mon Mar 15 12:35:25 ID:i0TSIH6xewrc2yzv2iH0YCzandN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

LOAD CASE(S) Standard

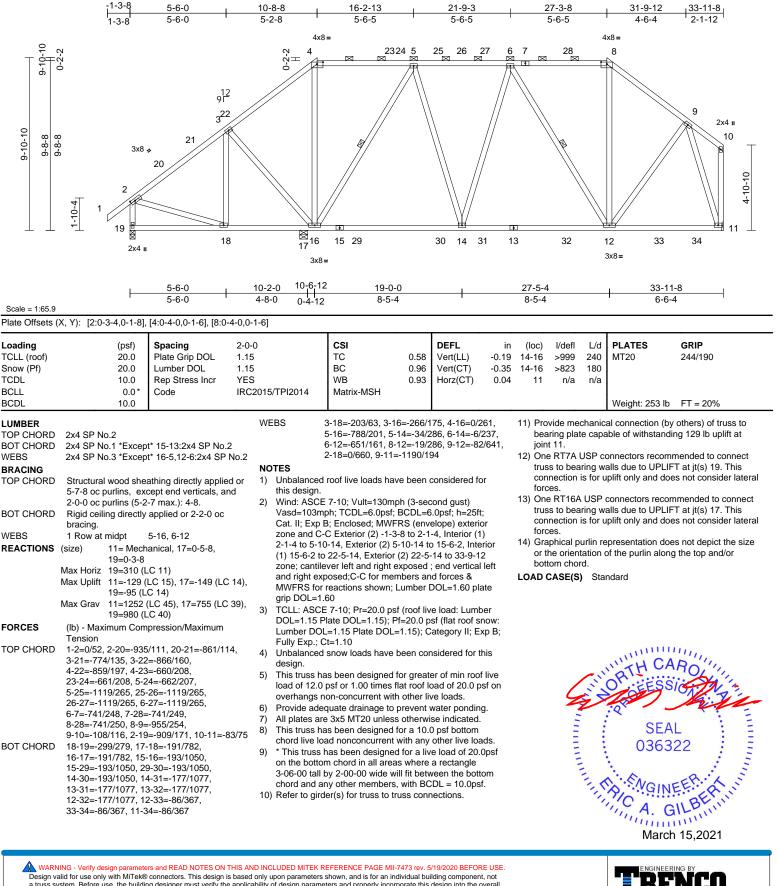


Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	B03	Нір	1	1	Job Reference (optional)	E15498425

Run: 8.43 S Mar 4 2021 Print: 8.430 S Mar 4 2021 MiTek Industries, Inc. Mon Mar 15 12:35:26 ID:CFvM0S7Mgdni1OZqa8zQjVzanEq-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

818 Soundside Road Edenton, NC 27932



Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	B04	Roof Special	1	1	Job Reference (optional)	E15498426

Run: 8.43 S Mar 4 2021 Print: 8.430 S Mar 4 2021 MiTek Industries, Inc. Mon Mar 15 12:35:27 ID:dNeLn6Zay_RSz4uxFP75jlzanEF-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

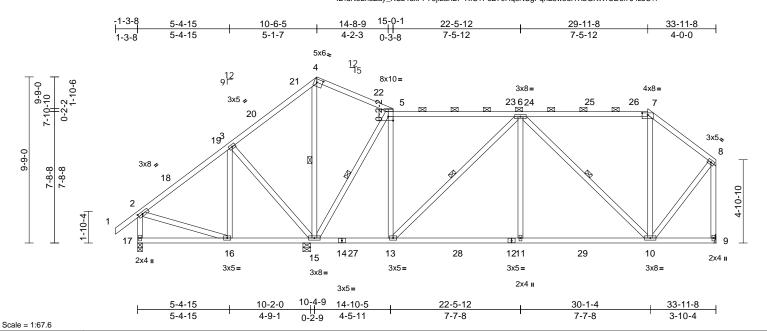


Plate Offsets (X, Y): [2:0-3-4,0-1-8], [4:0-4-0,0-2-4], [5:0-3-8,0-2-12], [7:0-4-0,0-1-6]

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	0.92	Vert(LL)	-0.07	10-11	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.14	11-13	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.02	9	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 242 lb	FT = 20%
	NOTES							12) Gra	phical p	urlin re	presentation doe	s not depict the size

TOP CHORD or the orientation of the purlin along the top and/or 2x4 SP No.2 *Except* 5-7:2x4 SP No.1 Unbalanced roof live loads have been considered for 1) BOT CHORD 2x4 SP No.2 bottom chord. this design WEBS 2x4 SP No.3 *Except* 13-6,10-6:2x4 SP No.2 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) LOAD CASE(S) Standard Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; BRACING Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior TOP CHORD Structural wood sheathing directly applied or zone and C-C Exterior (2) -1-3-8 to 2-1-4, Interior (1) 6-0-0 oc purlins, except end verticals, and 2-1-4 to 7-1-9, Exterior (2) 7-1-9 to 13-11-1, Interior (1) 2-0-0 oc purlins (2-2-0 max.): 5-7. 13-11-1 to 26-6-12, Exterior (2) 26-6-12 to 33-9-12 zone; BOT CHORD Rigid ceiling directly applied or 10-0-0 oc cantilever left and right exposed ; end vertical left and bracing, Except: right exposed;C-C for members and forces & MWFRS 6-0-0 oc bracing: 15-16. for reactions shown; Lumber DOL=1.60 plate grip WEBS 4-15, 5-15, 6-13, 6-10 1 Row at midpt DOL=1.60 REACTIONS 9= Mechanical, 15=0-5-8, 17=0-3-8 (size) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber 3) Max Horiz 17=-264 (LC 12) DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Max Uplift 9=-140 (LC 15), 15=-247 (LC 15), Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; 17=-42 (LC 14) Fully Exp.; Ct=1.10 Max Grav 9=954 (LC 42), 15=1677 (LC 50), 4) Unbalanced snow loads have been considered for this 17=409 (LC 21) desian. (Ib) - Maximum Compression/Maximum FORCES This truss has been designed for greater of min roof live 5) Tension load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on TOP CHORD 1-2=0/52, 2-18=-258/139, 18-19=-88/191, overhangs non-concurrent with other live loads 3-19=-61/197, 3-20=-54/323, 20-21=-32/366, Provide adequate drainage to prevent water ponding. 6) ORT 4-21=-23/403, 4-22=-14/332, 5-22=-27/289, This truss has been designed for a 10.0 psf bottom 7) 5-23=-289/133, 6-23=-289/133, chord live load nonconcurrent with any other live loads. 6-24=-462/176, 24-25=-462/177 8) * This truss has been designed for a live load of 20.0psf 25-26=-460/177, 7-26=-458/177, on the bottom chord in all areas where a rectangle Vinneeren 7-8=-575/167, 2-17=-361/97, 8-9=-935/145 3-06-00 tall by 2-00-00 wide will fit between the bottom BOT CHORD 16-17=-237/275, 15-16=-210/228, SEAL chord and any other members, with BCDL = 10.0psf. 14-15=-101/314, 14-27=-101/314, Refer to girder(s) for truss to truss connections. 036322 13-27=-101/314, 13-28=-164/876, 10) Provide mechanical connection (by others) of truss to 12-28=-164/876, 11-12=-164/876, bearing plate capable of withstanding 140 lb uplift at 11-29=-164/876, 10-29=-164/876, ioint 9. 9-10 = -60/6911) One RT7A USP connectors recommended to connect WEBS 3-16=0/235, 3-15=-452/195, 4-15=-529/78, truss to bearing walls due to UPLIFT at jt(s) 17 and 15. 5-15=-1096/200, 5-13=-17/768, This connection is for uplift only and does not consider 6-13=-818/135, 6-11=0/408, 6-10=-597/112, G lateral forces. mmm 7-10=-90/105, 2-16=-192/150, 8-10=-77/736

March 15,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	B05	Roof Special	1	1	Job Reference (optional)	E15498427

Run: 8.43 S Mar 4 2021 Print: 8.430 S Mar 4 2021 MiTek Industries, Inc. Mon Mar 15 12:35:28 ID:dSI22MOExt?p7X50EhL2TezanDB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

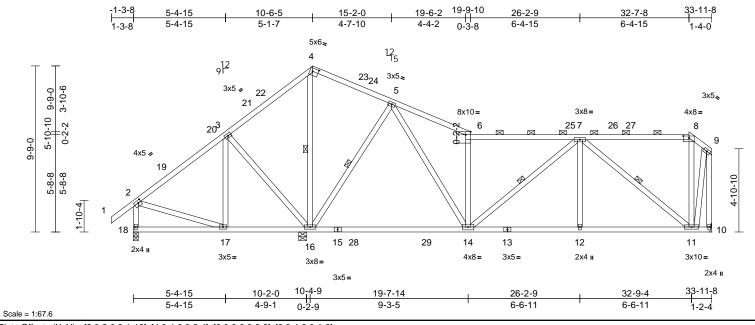


Plate Offsets (X, Y):	[2:0-2-0,0-1-12], [4:0-4-0,0-2-4], [6:0-3-8,0-2-2], [8:0-4-0,0-1-6]

Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	5/TPI2014	CSI TC BC WB Matrix-MSH	0.91 0.73 0.50	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.26 -0.42 0.02	(loc) 14-16 14-16 10	l/defl >999 >667 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 238 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	2x4 SP No.2 2x4 SP No.3 Structural wood she	athing directly appliec cept end verticals, an -0 max.): 6-8.	1) 2) I or	this design. Wind: ASCE Vasd=103mp Cat. II; Exp B zone and C-0 2-1-4 to 7-1-5	roof live loads have 7-10; Vult=130mph h; TCDL=6.0psf; B i; Enclosed; MWFR C Exterior (2) -1-3- 9, Exterior (2) 7-1-9	n (3-sec SCDL=6 SS (env 3 to 2-1 to 13-	cond gust) .0psf; h=25ft; elope) exterio -4, Interior (1) 11-1, Interior (r r (1)	or th	he orient	ation o d.	of the purlin along	es not depict the size g the top and/or
	Rigid ceiling directly bracing. 1 Row at midpt (size) 10= Mech 18=0-3-8 Max Horiz 18=-271 (Max Uplift 10=-128 (18=-182 (Max Grav 10=929 (L 18=276 (L	15),	 13-11-1 to 29-2-12, Exterior (2) 29-2-12 to 33-9-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10 4) Unbalanced snow loads have been considered for this 										
FORCES	4-22=-41/648, 4-23= 5-24=-36/487, 5-6=- 7-25=-561/119, 7-26 26-27=-211/107, 8-2	352, 19-20=-75/409, 62/560, 21-22=-44/5 24/538, 23-24=-27/5 660/174, 6-25=-561/1 =-213/107, ?=-211/107,	05, 7) 19, 8)	load of 12.0 p overhangs no Provide adeo This truss ha chord live loa * This truss h on the botton	s been designed fo osf or 1.00 times fla on-concurrent with juate drainage to p s been designed fo d nonconcurrent w as been designed n chord in all areas	at roof le other liv revent or a 10.0 rith any for a liv where	bad of 20.0 ps ve loads. water ponding 0 psf bottom other live load e load of 20.0 a rectangle	sf on j. ds.)psf		4		OP FESS	ROLIN
BOT CHORD	17-18=-174/285, 16- 15-16=-98/123, 15-2 28-29=-98/123, 14-2 13-14=-156/876, 12- 11-12=-156/876, 10- 3-17=0/231, 3-16=-4 5-16=-884/241, 5-14	28=-98/123, 29=-98/123, 13=-156/876, 11=-63/72 463/207, 4-16=-770/10 =-140/1163, ==-408/79, 7-12=0/243 =-239/123,	9) 10 07, 11	 chord and an Refer to girde Provide mech bearing plate joint 10. One RT7A U truss to beari 	y 2-00-00 wide will y other members, , er(s) for truss to tru nanical connection capable of withsta SP connectors record ng walls due to UP ion is for uplift only	with BC ss conr (by oth nding 1 ommen LIFT at	EDL = 10.0psf. nections. ers) of truss to 28 lb uplift at ded to connect jt(s) 18 and 1	o ct 16.		ALTERNA		SEA 0363	EER. Kultur

March 15,2021

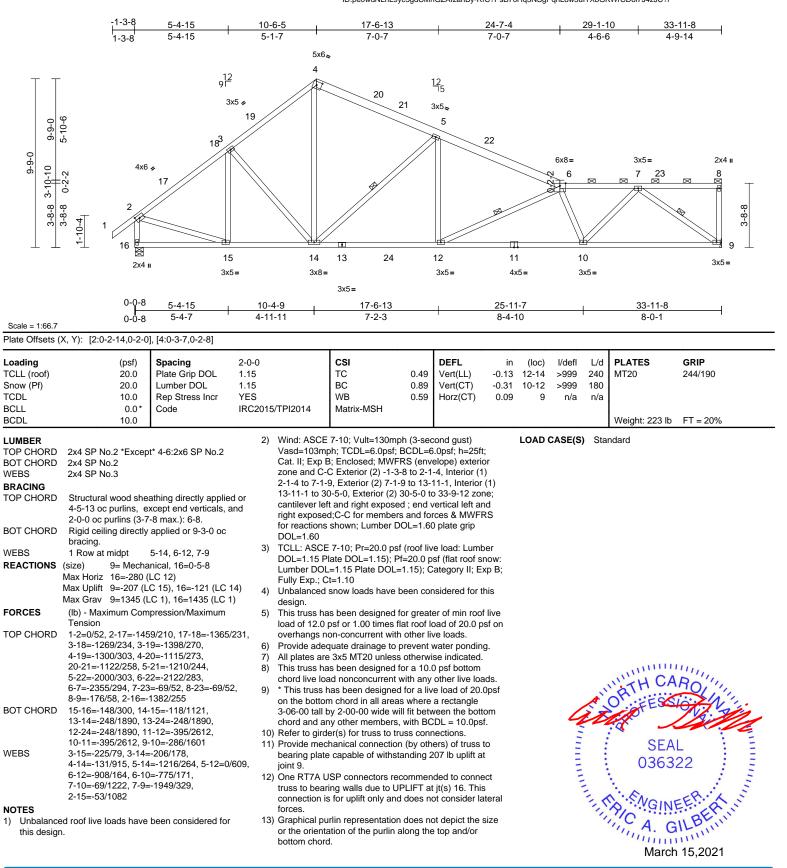
818 Soundside Road Edenton, NC 27932

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and property incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway. Suite 203 Waldorf, MD 20601

Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	B06	Roof Special	1	1	Job Reference (optional)	E15498428

Run: 8.43 S Mar 4 2021 Print: 8.430 S Mar 4 2021 MiTek Industries, Inc. Mon Mar 15 12:35:28 ID:pe0wdNLnL9yc5gdCMnGZAIzanBy-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



pponent B18 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	B07	Roof Special	4	1	Job Reference (optional)	E15498429

Run: 8.43 S Mar 4 2021 Print: 8.430 S Mar 4 2021 MiTek Industries, Inc. Mon Mar 15 12:35:29

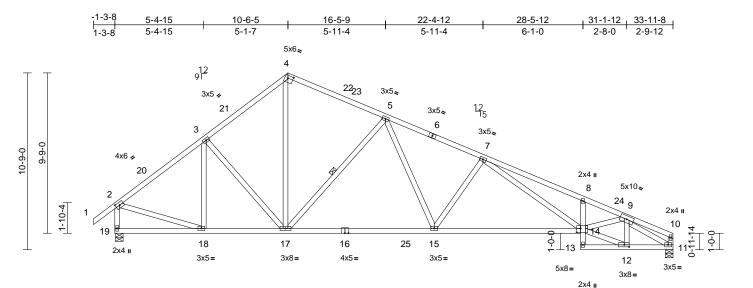
Page: 1

Carter Components, Chesapear	e, va - 23323,						PsB70Hq3NSg					Page: 1
-1-3 	-8 <u>5-4-15</u> -8 5-4-15	<u> </u>		16-5-9 5-11-4		-4-12 ·11-4	28-5		- <u>31-</u> 2-	<u>1-12 33-11</u> 8-0 2-9-1	<u>-8</u> 35-3-8 2 1-4-0	
	4x6 * 21 2	9 ¹² 3x5 * 22 3	5x6≈ 4		5≈ 5		2 15 3x5≈ 7		2x4 II 8	5x10 s	2x4 II	
	2x4 II	19 3x5=	18 3x8=	17 4x5=	26	16 3x5=		0 0 0 14 5x8=		13 3x8=	10 11 12 3x5=	0-1-14
)-0-8 <u>5-4-15</u>)-0-8 5-4-7	10-4-9 4-11-1		<u>19-5-3</u> 9-0-9		-	<u>28-4-0</u> 8-10-13			<u>1-12 33-11</u>)-12 2-9-1		
Plate Offsets (X, Y): [2:0-2-	14,0-2-0], [4:0-3-12	2,0-2-0], [13:0-3-8,0)-1-8], [15:0-2-8,	0-2-12]								
Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) Spacing 20.0 Plate Gr 20.0 Lumber 10.0 Rep Stree 0.0* Code 10.0	ip DOL 1.15 DOL 1.15 ess Incr YES	15/TPI2014	CSI TC BC WB Matrix-MSH	0.61 0.76 0.71	DEFL Vert(LL) Vert(CT) Horz(CT)	in (loc -0.25 16-18 -0.47 15-10 0.12 12	3 >999 5 >861	L/d 240 180 n/a	PLATES MT20 Weight: 216	GRIP 244/190	6
17-15:2x4 S WEBS 2x4 SP No. 2.0E BRACING 2-6-15 oc p TOP CHORD Rigid ceiling bracing. WEBS 1 Row at m REACTIONS (size) Max Horiz 2 Max Uplift FORCES (lb) - Maxim Tension TOP CHORD 1-2=0/52, 2 3-22=-1109/ 5-24=-1184 6-7=-2169/ 8-9=-3284/4 10-25=-224 BOT CHORD 19-20=-107 17-18=-38/ 16-26=-38/ 14-15=-067 WEBS 3-19=-235/ 4-18=-147/5 5-16=-9177 7-15=-208/ 9-15=-149/	2 *Except* 8-14:2x4 P No.1 3 *Except* 12-10:2: rood sheathing dire urlins, except end g directly applied or idpt 5-18 2=0-5-8, 20=0-5-8 0=-321 (LC 12) 2=-230 (LC 15), 20 2=1436 (LC 1), 20: um Compression/N -21=-1455/203, 3-2 (259, 4-22=-1300/2 /267, 23-24=-1125, /249, 5-8=-2045/57 331, 7-8=-3430/57 53, 10-11=0/34, 2- /154 /341, 18-19=-79/11 636, 17-26=-38/16 636, 15-16=-208/2 ,8-15=-313/165, 13	1 4 SP No.3, x4 SP 2400F 2x4 SP 2400F ectly applied or verticals. r 10-0-0 oc 30=-127 (LC 15) =1433 (LC 1) Waximum 421=-1362/227, 5 292, /251, 66, 65, -20=-1378/250, 7 158, 336, 2272, 3-14=-54/134, 22, L 10, 245, 245, 14	 this design. Wind: ASCE Vasd=103mg Cat. II; Exp E zone and C-1 2-1-4 to 7-1-1 13-11-1 to 3" zone; cantile and right exp MWFRS for grip DOL=1.15 P Lumber DOL Fully Exp.; C This truss ha load of 12.0 overhangs n This truss ha chord live load * This truss for on the bottor 3-06-00 tall to chord and ar One RT7A U truss to bear 	7-10; Pr=20.0 ps late DOL=1.15); F =1.15 Plate DOL t=1.10 snow loads have s been designed psf or 1.00 times on-concurrent with s been designed n chord in all area by 2-00-00 wide w y other members SP connectors re ing walls due to L ion is for uplift on t.	ph (3-sec BCDL=6. FRS (enve 3-8 to 2-1- -9 to 13-1 (2) 31-10- exposed ; mbers ann- Lumber E sf (roof live 2f=20.0 ps =1.15); Ci been con for greate flat roof lo h other liv for a 10.0 with any d for a live as where a sill fit betw s, with BC commend JPLIFT at	ond gust) Opsf; h=25ft; Iope) exteric 4, Interior (1) 1-1, Interior (1) 1-1, Interior (1) 1-1, Interior (1) 1-1, Interior 12 to 35-3-8 WOL=1.60 pla WOL=1.60 pla e load: Lumb f (flat roof sr ategory II; Ex sidered for th r of min roof ad of 20.0 ps e loads. psf bottom other live loa b load of 20.0 a rectangle een the botto DL = 10.0psf ed to conne jt(s) 20 and	ds. opsf opsf opsf opsf 112.			SE ORTHONS SE O36	322	



Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	B08	Roof Special	1	1	Job Reference (optional)	E15498430

Run: 8.43 S Mar 4 2021 Print: 8.430 S Mar 4 2021 MiTek Industries, Inc. Mon Mar 15 12:35:30 ID:k0Dh7ZuaKAt1lhXV0q0HY5zan7N-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



						2	
	0-0-8	5-4-15	10-4-9	19-5-3	28-4-0	31-1-12	33-11-8
0	0-0-8	5-4-7	4-11-11	9-0-9	8-10-13	2-9-12	2-9-12
Scale = 1:70.1							

Plate Offsets (X, Y): [2:0-2-14,0-2-0], [4:0-3-12,0-2-0], [12:0-3-8,0-1-8], [14:0-2-12,0-3-0]

													· · · · · · · · · · · · · · · · · · ·
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	0.59	Vert(LL)	-0.25	15-17	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15		BC	0.76	Vert(CT)	-0.47	14-15	>859	180		
TCDL	10.0	Rep Stress Incr	YES		WB	0.73	Horz(CT)	0.12	11	n/a	n/a		
BCLL	0.0*	Code	IRC201	5/TPI2014	Matrix-MSH								
BCDL	10.0											Weight: 214 lb	FT = 20%
LUMBER			1)	Unbalanced	roof live loads have	e been	considered fo	r					
TOP CHORD	2x4 SP No.2			this design.									
BOT CHORD	2x4 SP No.2 *Excep 8-13:2x4 SP No.3	ot* 16-14:2x4 SP No.1	, 2)		7-10; Vult=130mpl oh; TCDL=6.0psf; E			;					
WEBS	2x4 SP No.3			Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior									
BRACING				zone and C-C Exterior (2) -1-3-8 to 2-1-4, Interior (1)									
TOP CHORD	Structural wood she	athing directly applied	dor		9, Exterior (2) 7-1-9								
	2-6-10 oc purlins, e				0-5-0, Exterior (2) 3								
BOT CHORD	Rigid ceiling directly bracing.	applied or 10-0-0 oc		right expose	t and right exposed d;C-C for members	and fo	rces & MWFF						
WEBS	U	5-17			shown; Lumber DO	DL=1.6	0 plate grip						
REACTIONS		19=0-5-8		DOL=1.60									
	Max Horiz 19=-309 (3)		7-10; Pr=20.0 psf								
	Max Uplift 11=-198 (15)		late DOL=1.15); Pf								
	Max Grav 11=1345		,	Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10									
FORCES	(lb) - Maximum Com		, 4)		snow loads have b	een co	nsidered for t	nis					
	Tension		•,	design.		0011 001							
TOP CHORD	1-2=0/52, 2-20=-145	57/208, 3-20=-1364/2	32, 5)		is been designed fo	or areat	er of min roof	live					
	3-21=-1401/264, 4-2	21=-1303/298,	. ,		psf or 1.00 times fla								
	4-22=-1111/272, 22-	-23=-1128/256,		overhangs n	on-concurrent with	other li	ve loads.						
	5-23=-1186/253, 5-6		6)	This truss ha	as been designed fo	or a 10.	0 psf bottom					MILLIN	Unit.
	6-7=-2176/335, 7-8=	,			ad nonconcurrent w							IN'LY CA	ROUL
	8-24=-3298/489, 9-2	,	7)		nas been designed			Opsf			1	alling	
	9-10=-215/71, 2-19=	-1380/254,			n chord in all areas					/	SI	OWEES	Di Vi
BOT CHORD	10-11=-175/68	19 00/11/0			by 2-00-00 wide wil					2	27		
BOTCHORD	18-19=-117/329, 17- 16-17=-61/1640, 16-	,	•		ny other members,						-	:0	
	15-25=-61/1640, 14	,	8)		ISP connectors rec ing walls due to UF					-		054	, <u>1</u> E
		305/162, 12-13=-56/1	37		tion is for uplift only							SEA	4 3 8 9
	11-12=-247/1767		- ,	lateral forces		anu ut				1		0363	22 : =
WEBS	3-18=-233/76, 3-17=	-205/185,		DAD CASE(S)						-			- ; :
	4-17=-148/907, 5-17			AD CASE(S)	Stanuaru						-		1 5
	5-15=-93/778, 7-15=	-612/246,									21	N.ENO	-cRix S
	7-14=-219/1060, 9-1											S, GIN	EF. A.N
	9-14=-154/1327, 9-1										1	CA C	II BEIN
	12-14=-209/1762, 2-	-18=-62/1079										11, A. G	IL IIII
NOTES												A. C	110



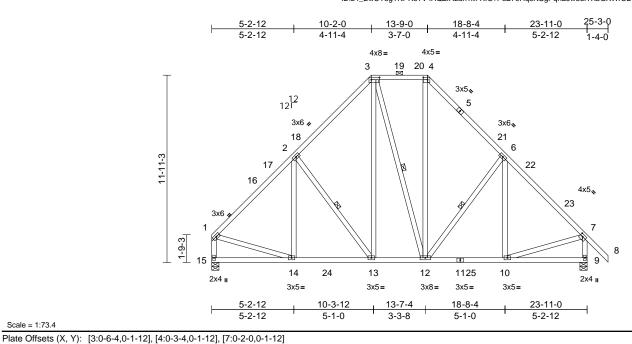
March 15,2021

Page: 1



Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	D06	Piggyback Base	4	1	Job Reference (optional)	E15498431

Run: 8,43 S Mar 4 2021 Print: 8,430 S Mar 4 2021 MiTek Industries, Inc. Mon Mar 15 12:35:51 ID:z4_EwCY3gTNPRsTV4AQZfHzan1M-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:73.4

		,, <u>[</u>	,	.=1									
Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	5/TPI2014	CSI TC BC WB Matrix-MSH	0.51 0.30 0.33	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.04 -0.07 0.02	(loc) 13-14 13-14 9	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 200 lb	GRIP 244/190 FT = 20%
	2x4 SP No.2 2x4 SP No.3 *Excep No.2 Structural wood she 5-2-5 oc purlins, exi 2-0-0 oc purlins (6-0 Rigid ceiling directly bracing. 1 Row at midpt	applied or 10-0-0 oc 2-13, 3-12, 6-12 15=0-5-8 LC 12) C 15), 15=-79 (LC 14)	or 1 3) 4)	Vasd=103m Cat. II; Exp I zone and C- 3-1-12 to 5-1 (1) 17-11-15 zone; cantile and right exp MWFRS for grip DOL=1. TCLL: ASCE DOL=1.15 P Lumber DOL Fully Exp.; C Unbalanced design.	E 7-10; Pr=20.0 ps late DOL=1.15); P _=1.15 Plate DOL=	BCDL=(RS (env 12 to 3- -11-1 to r (2) 22- exposed nbers ar Lumber f (roof livi f=20.0 p =1.15); C been co	6.0psf; h=25ft elope) exteria 1-12, Interior 17-11-15, Int 3-0 to 25-3-0 ; end vertical dd forces & DOL=1.60 pla ve load: Lumb sf (flat roof si ategory II; E; nsidered for t	or (1) terior left ate oer now: xp B; his					
FORCES TOP CHORD	(lb) - Maximum Com Tension 1-16=-1145/160, 16- 2-17=-935/185, 2-18 3-18=-816/298, 3-19 19-20=-578/276, 4-2 4-5=-808/294, 5-21= 6-21=-1010/256, 6-2 22-23=-1048/169, 7- 1-15=-1086/160, 7-9	-17=-1018/168,]=-1013/260,]=-578/276, :0=-578/276, -812/275, :2=-932/192, -23=-1143/154, 7-8=0/	6) 7) 8)	load of 12.0 overhangs n Provide ader This truss ha chord live loa * This truss l on the bottor 3-06-00 tall l chord and an	psf or 1.00 times f on-concurrent with quate drainage to as been designed ad nonconcurrent has been designed m chord in all area by 2-00-00 wide w ny other members. JSP connectors re	lat roof I o other li prevent for a 10. with any d for a liv s where ill fit betv , with BC	oad of 20.0 p ve loads. water pondin 0 psf bottom other live loa re load of 20.1 a rectangle ween the bott CDL = 10.0ps	sf on g. ads. Opsf om f.		4	ALL ALL	WITH CA	ROUNT
BOT CHORD	14-15=-296/348, 14- 13-24=-142/856, 12-	-24=-142/856,	-,	truss to bear This connec lateral forces	ring walls due to U tion is for uplift onl	PLIFT a y and do	t jt(s) 15 and bes not consid	9. der				.' ?` SEA 0363	• •
WEBS	2-14=-106/99, 2-13= 3-13=-136/386, 3-12 4-12=-112/345, 6-12 6-10=-109/98, 1-14=	2=-138/140, 2=-363/231,			ation of the purlin a d.						in the second se	A SMGIN	EERHAL
NOTES 1) Unbalance this design	ed roof live loads have n.	been considered for										111111	15 2021

NOTES

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

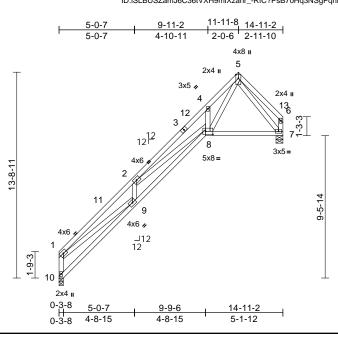


March 15,2021

Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	F01	Roof Special	3	1	Job Reference (optional)	E15498432

Run: 8,43 S Mar 4 2021 Print: 8,430 S Mar 4 2021 MiTek Industries, Inc. Mon Mar 15 12:35:53 ID:iSLBUSZamJ6C36tVXH9mIXzanr_-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:76.8

Plate Offsets (X, Y): [8:0-5-12,0-2-8]

	(,, ,): [0:0 0 12,0 2 0	1											
Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2015/T	PI2014	CSI TC BC WB Matrix-MSH	0.41 0.52 0.70	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.20 -0.23 0.22	(loc) 8-9 8-9 7	l/defl >865 >750 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 99 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD FORCES TOP CHORD BOT CHORD WEBS	2x4 SP No.2 2x4 SP No.3 Structural wood she 3-8-8 oc purlins, exi Rigid ceiling directly bracing. (size) 7=0-5-8, 1 Max Horiz 10=353 (L Max Uplift 7=-234 (L Max Grav 7=631 (LC (lb) - Maximum Com Tension 1-10=-703/347, 1-11 2-11=-2063/980, 2-3 3-12=-1809/815, 4-1 4-5=-2005/1052, 5-1 6-13=-205/107, 6-7=	cept end verticals. applied or 5-0-10 or 10=0-3-8 _C 14) C 14) C 30), 10=585 (LC 1 pression/Maximum 1=-2105/957, 3=-1930/809, 12=-1787/828, 13=-185/128, -203/118 -1333/2266, 319/271, 7=-577/246,	ed or 5) T 5 6) * 7) E 8) C 6, 1 7) E 1 6, 1 7, 1 6, 1 7, 1 7	DOL=1.15 Pl Jumber DOL Fully Exp.; C Jnbalanced Jesign. This truss ha thord live loa This truss ha thord live loa This truss ha bon the bottor b-06-00 tall b thord and ar Bearing at jo sising ANSI/J Jesigner sho Dne RT7A U russ to bear	snow loads have I s been designed f ad nonconcurrent to has been designed n chord in all area y 2-00-00 wide wi yo other members. int(s) 10 considers TPI 1 angle to grai uld verify capacity SP connectors re- ing walls due to UI for uplift only and	f=20.0 p 1.15); C been cor or a 10. with any I for a liv s where Il fit betw paralle n formul of bear commen PLIFT a	sf (flat roof s ategory II; E: hsidered for t D psf bottom other live loa e load of 20. a rectangle veen the bott I to grain valu a. Building ing surface. igt(s) 7. This	now: xp B; his ads. 0psf com ue				NITH CA	ROLINI
this design 2) Wind: ASC Vasd=103 Cat. II; Ex zone and 3-1-12 to a cantilever	ed roof live loads have n. CE 7-10; Vult=130mph 3mph; TCDL=6.0psf; B(p B; Enclosed; MWFR: C-C Exterior (2) 0-1-12 8-11-8, Exterior (2) 8-1 left and right exposed sed;C-C for members a	(3-second gust) CDL=6.0psf; h=25ft; S (envelope) exterio 2 to 3-1-12, Interior (1-8 to 14-9-6 zone; ; end vertical left an	r 1) d									SEA 0363	• -

Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 8-11-8, Exterior (2) 8-11-8 to 14-9-6 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

818 Soundside Road Edenton, NC 27932

G mmm

March 15,2021

Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	G05	Piggyback Base	1	1	Job Reference (optional)	E15498433

Run: 8,43 S Mar 4 2021 Print: 8,430 S Mar 4 2021 MiTek Industries, Inc. Mon Mar 15 12:35:57 ID:fSdVJ0qqGGDRX5qUc709ySzanpM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

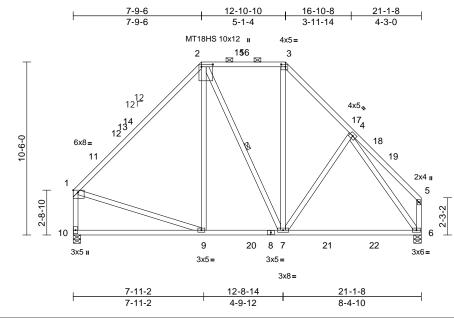


Plate Offsets (X, Y): [1:Edge,0-1-7], [2:0-1-12,0-8-4], [3:0-3-4,0-1-12]

Scale = 1:69.9

Loading TCLL (roof) Snow (Pf) TCDL BCLL	(psf) 20.0 20.0 10.0 0.0*	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES	15/TPI2014	CSI TC BC WB Matrix-MSH	0.74 0.64 0.91	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.13 -0.27 0.01	(loc) 6-7 6-7 6	l/defl >999 >943 n/a	L/d 240 180 n/a	PLATES MT20 MT18HS	GRIP 244/190 244/190
BCDL	10.0	Code	11(020)	13/11/2014	Matrix-WOT							Weight: 158 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SP No.2 *Excep 2.0E 2x4 SP No.2 2x4 SP No.3 *Excep Structural wood she 5-9-4 oc purlins, ex 2-0-0 oc purlins (6-0 Rigid ceiling directly bracing. 1 Row at midpt	et* 7-2,10-1:2x4 SP N athing directly applie cept end verticals, ar -0 max.): 2-3. applied or 10-0-0 oc 2-7 10=0-5-8 LC 10) 2 15), 10=-74 (LC 14) _C 39), 10=1007 (LC	lo.2 d or ld 3 39) 5 6	Vasd=103m Cat. II; Exp zone and C 3-1-12 to 3- 16-11-5 to 1 zone; cantile and right ex MWFRS for grip DOL=1) TCLL: ASCI DOL=1.15 F Lumber DO Fully Exp.; () Unbalanced design.) Provide ade) All plates ar	E 7-10; Pr=20.0 ps Plate DOL=1.15); I L=1.15 Plate DOL Ct=1.10 snow loads have quate drainage to e MT20 plates uni	BCDL=6 FRS (env -12 to 3- -6-7 to 16 (2) 17-11 exposed mbers ar Lumber 1 sf (roof lix Pf=20.0 p =1.15); C been coo prevent ess othe	i.0psf; h=25f elope) exteri I-12, Interior -11-5, Interior -11-5, Interior -12 to 20-11: ; end vertical d forces & DOL=1.60 pl e load: Luml sf (flat roof s category II; E msidered for t water pondin wise indicate	or (1) or (1) -12 I left ate ber .now: xp B; this g.				rveignit. 190 lb	
BOT CHORD WEBS NOTES	1-11=-919/152, 11-1 12-13=-724/167, 13- 2-14=-685/204, 2-15 15-16=-487/248, 3-1 3-17=-820/273, 4-17 4-18=-161/144, 18-1 5-19=-217/125, 1-10 9-10=-271/324, 9-20 8-20=-116/538, 7-8= 21-22=-31/553, 6-22 2-9=0/172, 2-7=-122 4-7=-187/216, 1-9=-	-14=-700/170, =-487/248, 6=-487/248, '=-844/238, 9=-182/129, 9=-930/177, 5-6=-217,)=-116/538, -211-6/538, -116/538, 7-21=-31/2 2=-31/553, 4/32, 37=-94/331, 80/416, 4-6=-912/63	7/127 1 553, 1	 This truss h chord live lo * This truss on the botto 3-06-00 tall chord and a One RT7A I truss to bea This connec lateral force Graphical p or the orient bottom chor 	urlin representatio ation of the purlin d.	for a 10. with any d for a liv as where vill fit betv s, with BC ecommer JPLIFT a ly and do n does no	D psf bottom other live load e load of 20. a rectangle veen the bott DL = 10.0ps ded to conne i jt(s) 10 and es not consi ot depict the	Opsf tom sf. ect 6. der		A		ORTEESS SEA 0363	• •
	ed roof live loads have n.	been considered for	L	OAD CASE(S)	Standard								EFR. KINN



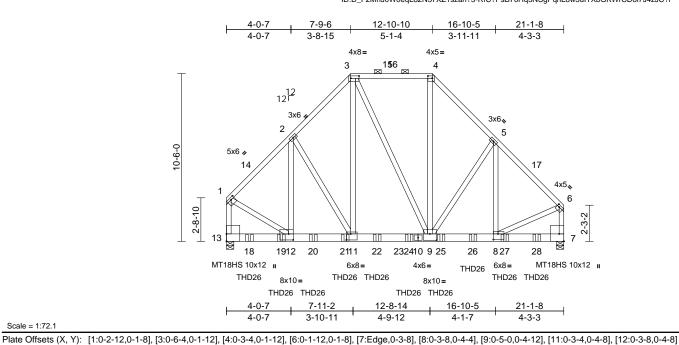
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	G06	Piggyback Base Girder	1	2	Job Reference (optional)	E15498434

Run: 8,43 S Mar 4 2021 Print: 8,430 S Mar 4 2021 MiTek Industries, Inc. Mon Mar 15 12:35:58 ID:D_F2MnJ0W0eqL82N37XZ1szan?5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:72.1

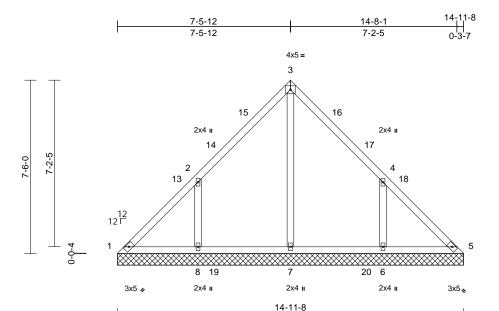
	, .). [],[ele e ije i i=],[], [0:0 : .2,	0-1-oj, [7.Euge,0-	o o], [o.c	, e e,ej, [[0.0 0 0,	,• · ·=],	[1.10.0	.,], [12:0 0 0,0 1 0	, ,
Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC201	5/TPI2014	CSI TC BC WB Matrix-MSH	0.85 0.94 0.89	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.08 -0.15 0.02	9-11 9-11	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 MT18HS Weight: 386 lb	GRIP 244/190 244/190 FT = 20%
BCDL	10.0											weight: 386 ib	FI = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x4 SP No.2 2x6 SP No.2 2x4 SP No.3 *Excep Structural wood she 5-2-5 oc purlins, ex 2-0-0 oc purlins (6-0 Rigid ceiling directly	athing directly applie cept end verticals, a I-0 max.): 3-4.	ed or nd 2)	(0.131"x3") n Top chords c oc. Bottom chord staggered at Web connect All loads are except if note	ted as follows: 2x4 considered equal ed as front (F) or b	ws: 2x4 - bllows: 2 4 - 1 row ly applie back (B)	 1 row at 0-9 x6 - 2 rows at 0-9-0 oc. d to all plies, face in the LO 	DAC	or t bott 13) Use 12- 2-0 19- cho 14) Fill	he orien tom choi e USP TI 10d x 1- -0 oc ma 5-4 to co ord. all nail h	tation o rd. HD26 (1/2 nai ax. star onnect	f the purlin alon With 18-16d naii Is into Truss) or ting at 1-5-4 fron truss(es) to back here hanger is ir	ls into Girder & equivalent spaced at n the left end to
	bracing.				tion. Ply to ply co listribute only load					CASE(S			r Incroaco-1 15 Plata
	(size) 7=0-5-8, 1 Max Horiz 13=-279 (L Max Uplift 7=-379 (L Max Grav 7=6564 (L (lb) - Maximum Com Tension 1-14=-5369/0, 2-14=	· +)	 provided to distribute only loads noted as (F) or (B), unless otherwise indicated. Unbalanced roof live loads have been considered for this design. Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zono continuer of the and right avaged to undustrial left Dead + Snow (balanced): Lumber Increase=1 Increase=1.15 Uniform Loads (lb/ft) Vert: 1-3=-60, 3-4=-60, 4-6=-60, 7-13=-20 Concentrated Loads (lb) Vert: 18=-1175 (B), 19=-1175 (B), 20=-117 21=-1355 (B), 22=-1191 (B), 24=-1092 (B), 									0, 7-13=-20 B), 20=-1175 (B), 4=-1092 (B), 25=-1165	
BOT CHORD	3-15=-3486/201, 15- 4-16=-3486/201, 4-5 5-17=-5381/276, 6-1 1-13=-6121/0, 6-7=- 13-18=-230/302, 18- 12-19=-230/302, 12- 20-21=0/3738, 11-2 22-23=0/3518, 23-24	5=-5049/206, 17=-5477/257, 5682/263 -19=-230/302, -20=0/3738, 1=0/3738, 11-22=0/3 4=0/3518, 10-24=0/3	3518, 6)	 and right exposed; Lumber DOL=1.60 plate grip DOL=1.60 5) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10 6) Unbalanced snow loads have been considered for this design. 									ROUT
WEBS NOTES	3-9=-706/73, 4-9=-76/3250, 5-9=-651/396, 5-8=-287/561, 1-12=0/4280, 6-8=-111/4035				Provide adequate drainage to prevent water ponding. All plates are MT20 plates unless otherwise indicated. 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, with BCDL = 10.0psf. 1) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7. This connection is for uplift only and does not consider lateral forces.							EER. KIN	

A. GILBERT March 15,2021



Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	VL05	Valley	1	1	Job Reference (optional)	E15498435

Run: 8.43 S Mar 4 2021 Print: 8.430 S Mar 4 2021 MiTek Industries, Inc. Mon Mar 15 12:36:12 ID:_JPhAzaraKx5u7GJz?6cCYzanlo-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:49.8

						·						
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	тс	0.22	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.18	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.21	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 71 lb	FT = 20%

TOP CHORD	2x4 SP N	0.2
BOT CHORD	2x4 SP N	0.2
OTHERS	2x4 SP N	0.3
BRACING		
TOP CHORD	Structural 6-0-0 oc p	l wood sheathing directly applied or ourlins.
BOT CHORD	Rigid ceili bracing.	ing directly applied or 6-0-0 oc
REACTIONS	(size)	1=14-11-8, 5=14-11-8, 6=14-11-8, 7=14-11-8, 8=14-11-8
	Max Horiz	1=-180 (LC 10)
	Max Uplift	1=-42 (LC 10), 6=-220 (LC 15),
		8=-225 (LC 14)
	Max Grav	1=146 (LC 24), 5=117 (LC 26),
		6=432 (LC 24), 7=406 (LC 23),
		8=437 (LC 23)
FORCES	(lb) - Max Tension	imum Compression/Maximum
TOP CHORD		5/167, 2-13=-153/173,
TOP CHORD		6/109, 14-15=-76/123,
		(140, 3-16=-73/116, 16-17=-76/101,
		6/86, 4-18=-117/127, 5-18=-139/120
BOT CHORD		(151, 8-19=-113/151, 7-19=-113/151,
BOT CHORD		3/151, 6-20=-113/151, 5-6=-113/151
WEBS	3-7=-217/	0, 2-8=-330/261, 4-6=-330/259
NOTES		
	ed roof live l	oads have been considered for

 Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-0-4 to 3-0-4, Interior (1) 3-0-4 to 4-6-0, Exterior (2) 4-6-0 to 10-6-0, Interior (1) 10-6-0 to 11-11-12, Exterior (2) 11-11-12 to 14-11-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber
- DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 4-0-0 oc.
- 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, with BCDL = 10.0psf.
 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 1, 225 lb uplift at joint 8 and 220 lb uplift at joint 6.

LOAD CASE(S) Standard



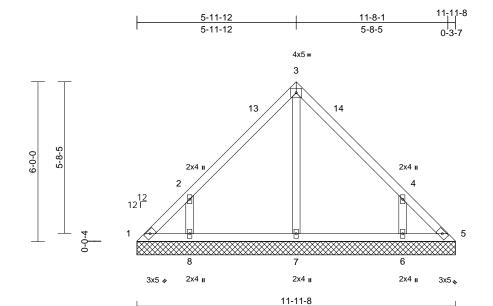
Page: 1



Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	VL06	Valley	1	1	Job Reference (optional)	E15498436

Run: 8,43 S Mar 4 2021 Print: 8,430 S Mar 4 2021 MiTek Industries, Inc. Mon Mar 15 12:36:12 ID:s5eC?LdLeYRXMkZ4CrAYMOzanlk-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:43.3

Loading TCLL (roof) Snow (Pf)	(psf) 20.0 20.0	Spacing Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15	CSI TC BC	0.19 0.12	DEFL Vert(LL) Vert(TL)	in n/a n/a	(loc) - -	l/defl n/a n/a	L/d 999 999	PLATES MT20	GRIP 244/190	
TCDL	10.0	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	5	n/a	n/a			
BCLL BCDL	0.0* 10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 54 lb	FT = 20%	
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood she 6-0-0 oc purlins. Rigid ceiling directly bracing. (size) 1=11-11-5 (size) 1=11-11-5 Max Horiz 1=143 (LC 6=-185 (L Max Grav 1=114 (LC 6=-386 (LC 8=342 (LC	applied or 10-0-0 oc 8, 5=11-11-8, 6=11-1 8, 8=11-11-8 C 11) C 10), 5=-17 (LC 11), C 15), 8=-191 (LC 1), C 28), 5=92 (LC 26), C 28), 7=224 (LC 1), C 27)	 only. For see Stand or consult 4) TCLL: ASC DOL=1.15 Lumber DC Fully Exp.; 5) Unbalance design. 1-8, 6) Gable requ 7) Gable stud 8) This truss chord live 9) * This truss on the bott 3-06-00 ta 	gned for wind load studs exposed to w ard Industry Gable qualified building d CE 7-10; Pr=20.0 p Plate DOL=1.15; DL=1.15 Plate DOI Ct=1.10 d snow loads have irres continuous bo is spaced at 4-0-0 has been designed oad nonconcurren is has been designed om chord in all are I by 2-00-00 wide v any other member	vind (norm End Deta esigner as sf (roof liv PF=20.0 p ==1.15); C e been cor butom chor oc. d for a 10.0 t with any ed for a liv as where will fit bete	al to the face lis as applica is per ANSI/TI e load: Lumb of (flat roof si ategory II; E) isidered for the d bearing. D psf bottom other live load e load of 20.0 a rectangle), ble, PI 1. er how: cp B; his ds. Dpsf				weight. 34 ib	FT = 20%	
ORCES	(lb) - Maximum Com Tension			echanical connection to the capable of with									
TOP CHORD	1-2=-163/131, 2-13= 3-13=-105/126, 3-14 4-14=-152/102, 4-5=	l=-105/118,	1, 17 lb up uplift at joi LOAD CASE(o uplift at jo	bint 8 and 18	5 lb						
BOT CHORD	,) Standard							WH CA	ARO	
WEBS	3-7=-138/0, 2-8=-31	5/254, 4-6=-315/252								N	R	······································	
NOTES									/	5.	OFE	Para	11
 Unbalance this design 	ed roof live loads have n.	been considered for							-	P	. QT	120	14
Vasd=103 Cat. II; Ex zone and exposed ; members	CE 7-10; Vult=130mph 3mph; TCDL=6.0psf; B p; B; Enclosed; MWFR C-C Exterior (2) zone; end vertical left and riç and forces & MWFRS OL=1.60 plate grip DC	CDL=6.0psf; h=25ft; S (envelope) exterior cantilever left and rig ght exposed;C-C for for reactions shown;	ght								SEA 0363		annun an

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

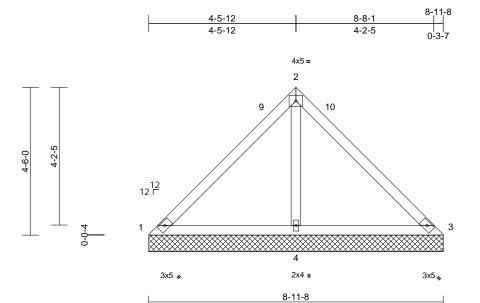


G١ mmm March 15,2021

Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	VL07	Valley	1	1	Job Reference (optional)	E15498437

Run: 8,43 S Mar 4 2021 Print: 8,430 S Mar 4 2021 MiTek Industries, Inc. Mon Mar 15 12:36:13 ID:HgKLeMgEwTq5DClftzkF_0zanlh-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:35.1

					-								
Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf 20.0 20.0 10.0 0.0 10.0	Plate Grip DOL Lumber DOL Rep Stress Incr * Code	2-0-0 1.15 1.15 YES IRC2	015/TPI2014	CSI TC BC WB Matrix-MP	0.28 0.25 0.18	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 37 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	8-11-8 oc purlins Rigid ceiling dire bracing. (size) 1=8-1 Max Horiz 1=-10 Max Uplift 1=-29 4=-17.	ctly applied or 6-0-0 oc	ed or	Lumber DOL Fully Exp.; C Unbalanced design. 6) Gable requir 7) Gable studs 8) This truss ha chord live los 9) * This truss I on the bottoo 3-06-00 tall I chord and ar 10) Provide mec	Plate DOL=1.15); =1.15 Plate DOL :=1.10 snow loads have es continuous bo spaced at 4-0-0 as been designed ad nonconcurren has been designed op 2-00-00 wide oy 2-00-00 wide	Pf=20.0 p L=1.15); C e been cor ottom chor oc. d for a 10. t with any ed for a liv eas where will fit betw 's. on (by oth	sf (flat roof si ategory II; E) asidered for th d bearing. 0 psf bottom other live loa e load of 20.0 a rectangle veen the botti ers) of truss f	now: kp B; his ds. Dpsf om					
TOP CHORD	Tension	ompression/Maximum 9=-104/270, 2-10=-104	/264.	1, 29 lb uplif LOAD CASE(S)	t at joint 3 and 17 Standard	72 lb uplift	at joint 4.						
BOT CHORD WEBS	3-10=-130/242 1-4=-255/187, 3- 2-4=-516/248		,										
this design 2) Wind: ASC	n. CE 7-10; Vult=130r	ave been considered fo nph (3-second gust) ; BCDL=6.0psf; h=25ft;									A	OR FES	ROUT
Cat. II; Ex	p B; Enclosed; MW	FRS (envelope) exterio ne; cantilever left and ri	r							4	U.		Alle

- exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 3)
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

Munning - HILLING HILLING SEAL 036322 GI munn March 15,2021

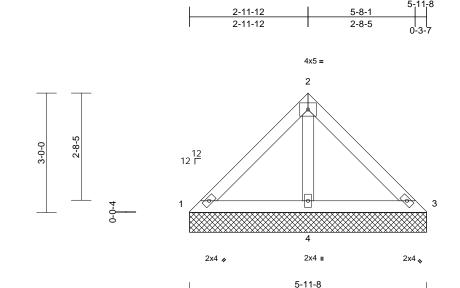


Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	VL08	Valley	1	1	Job Reference (optional)	E15498438

Run: 8 43 S Mar 4 2021 Print: 8 430 S Mar 4 2021 MiTek Industries Inc. Mon Mar 15 12:36:13 ID:dd7Eh4kMI?SOKzAcgXKRh4zanlc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Page: 1



S

BOT

REA

(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
20.0	Plate Grip DOL	1.15		тс	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
20.0	Lumber DOL	1.15		BC	0.12	Vert(TL)	n/a	-	n/a	999		
10.0	Rep Stress Incr	YES		WB	0.06	Horiz(TL)	0.00	3	n/a	n/a		
0.0*	Code	IRC2015	/TPI2014	Matrix-MP								
10.0											Weight: 24 lb	FT = 20%
2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood shea	athing directly applie		design. Gable requir Gable studs This truss ha chord live loa	es continuous bo spaced at 4-0-0 s been designed ad nonconcurren	ottom chor oc. d for a 10.0 t with any	d bearing.) psf bottom other live loa	ds.					
222	20.0 20.0 10.0 0.0* 10.0 2x4 SP No.2 2x4 SP No.2 2x4 SP No.3	20.0 20.0 20.0 10.0 0.0* 10.0 22x4 SP No.2 2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood sheathing directly applie	20.0 Plate Grip DOL 1.15 20.0 Lumber DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015 2000 Code 1000 2000 Code	20.0 Plate Grip DOL 1.15 20.0 Lumber DOL 1.15 10.0 Rep Stress Incr YES 0.0* Code IRC2015/TPI2014 10.0 IRC2015/TPI2014 5) 2x4 SP No.2 6) Gable require 2x4 SP No.2 6) Gable studs 30 7) Gable studs 8) This truss has chord live load	20.0 Plate Grip DOL 1.15 TC 20.0 Lumber DOL 1.15 BC 10.0 Rep Stress Incr YES WB 0.0* Code IRC2015/TPI2014 Matrix-MP 5) Unbalanced snow loads have design. 6) Gable requires continuous bo 2x4 SP No.2 6) Gable requires continuous bo 7) Gable studs spaced at 4-0-0 8) This truss has been designed chord live load nonconcurrent	20.0 Plate Grip DOL 1.15 TC 0.10 20.0 Lumber DOL 1.15 BC 0.12 10.0 Rep Stress Incr YES WB 0.06 0.0* Code IRC2015/TPI2014 Matrix-MP 5) Unbalanced snow loads have been cor design. 2x4 SP No.2 6) Gable requires continuous bottom chor chor 2x4 SP No.3 7) Gable studs spaced at 4-0-0 oc. 8) This truss has been designed for a 10.0 chord live load nonconcurrent with any	20.0 Plate Grip DOL 1.15 TC 0.10 Vert(LL) 20.0 Lumber DOL 1.15 BC 0.12 Vert(TL) 10.0 0.0* Code IRC2015/TPI2014 WB 0.06 Horiz(TL) 2x4 SP No.2 5) Unbalanced snow loads have been considered for the design. 2x4 SP No.2 6) Gable requires continuous bottom chord bearing. 7) Gable studs spaced at 4-0-0 oc. 8) Structural wood sheathing directly applied or This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live load	20.0 Plate Grip DOL 1.15 TC 0.10 Vert(LL) n/a 20.0 Lumber DOL 1.15 BC 0.12 Vert(TL) n/a 10.0 Rep Stress Incr YES WB 0.06 Vert(TL) 0.00 0.0* Code IRC2015/TPI2014 Matrix-MP Vert(TL) 0.00 2x4 SP No.2 5) Unbalanced snow loads have been considered for this design. 2x4 SP No.2 6) Gable requires continuous bottom chord bearing. 7) Gable studs spaced at 4-0-0 oc. This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.	20.0 Plate Grip DOL 1.15 TC 0.10 Vert(LL) n/a - 20.0 Lumber DOL 1.15 BC 0.12 Vert(TL) n/a - 10.0 0.0* Code IRC2015/TPI2014 WB 0.06 Horiz(TL) 0.00 3 2x4 SP No.2 5) Unbalanced snow loads have been considered for this design. - - 2x4 SP No.2 6) Gable requires continuous bottom chord bearing. - - 3x4 SP No.3 7) Gable studs spaced at 4-0-0 oc. 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.	20.0 Plate Grip DOL 1.15 TC 0.10 Vert(LL) n/a - n/a 20.0 Lumber DOL 1.15 BC 0.12 Vert(TL) n/a - n/a 10.0 0.0* Code IRC2015/TPI2014 WB 0.06 Matrix-MP Horiz(TL) 0.00 3 n/a 2x4 SP No.2 5) Unbalanced snow loads have been considered for this design. - - - - - - - - - n/a 2x4 SP No.2 6) Gable requires continuous bottom chord bearing. - - - - - - - - - n/a 2x4 SP No.3 7) Gable studs spaced at 4-0-0 oc. 8) This truss has been designed for a 10.0 psf bottom chord bearing. -	20.0 20.0 20.0 10.0 0.0*Plate Grip DOL Lumber DOL1.15 1.15 Rep Stress Incr YES CodeTC BC 0.12 WB Matrix-MPVert(LL) Vert(TL) N/an/a- n/a999 999 999 Horiz(TL)0.0* 10.00.0* 10.00.0* Code115 TPI2014TC BC Matrix-MP0.10 BC Matrix-MPVert(LL) Vert(TL)n/a- n/a999 999 Horiz(TL)2x4 SP No.2 2x4 SP No.2 2x4 SP No.35)Unbalanced snow loads have been considered for this design.5)Unbalanced snow loads have been considered for this design.5)Gable requires continuous bottom chord bearing. 7)6)Gable requires continuous bottom chord bearing. This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.	20.0 Plate Grip DOL 1.15 TC 0.10 Vert(LL) n/a - n/a 999 MT20 20.0 Lumber DOL 1.15 BC 0.12 Vert(LL) n/a - n/a 999 MT20 10.0 0.0* Code IRC2015/TPI2014 MB 0.06 Matrix-MP Vert(TL) n/a - n/a 999 Weight: 24 lb 2x4 SP No.2 5) Unbalanced snow loads have been considered for this design. 6) Gable requires continuous bottom chord bearing. 7) Gable studies spaced at 4-0-0 oc. 8) This trues has been designed for a 10.0 psf bottom chord live loads. 8) This trues has been designed for a 10.0 psf bottom

CHORD	5-11-8 oc Rigid ceili bracing.	purlins. ng directly applied or 6-0-0 oc	
CTIONS	()	1=5-11-8, 3=5-11-8, 4=5-11-8 1=69 (I C 11)	

	in an in the ine	
	Max Uplift	4=-76 (LC 14)
	Max Grav	1=67 (LC 31), 3=67 (LC 32), 4=375
		(LC 1)
FORCES	(lh) - Max	imum Compression/Maximum

FORCES Tension TOP CHORD 1-2=-53/128, 2-3=-45/120

- BOT CHORD 1-4=-122/100, 3-4=-122/100 WFBS 2-4=-247/108NOTES
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss 3) only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber 4) DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10

- on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 76 lb uplift at joint 4.

LOAD CASE(S) Standard



818 Soundside Road Edenton, NC 27932

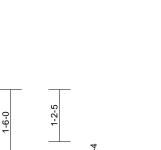
Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	VL09	Valley	1	1	E Job Reference (optional)	15498439

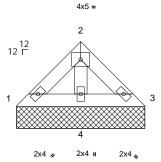
Run: 8,43 S Mar 4 2021 Print: 8,430 S Mar 4 2021 MiTek Industries. Inc. Mon Mar 15 12:36:14 ID:Yr1aZF6JJrZPFNxsqOw?Fpzanni-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

2-8-1

1-2-5

Page: 1





1-5-12

1-5-12



Scale = 1:26.6

00010 = 1.20.0												
Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2015/TP	CSI TC BC WB Matrix-MP	0.02 0.03 0.01	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 11 lb	GRIP 244/190 FT = 20%
	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood she 2-11-8 oc purlins. Rigid ceiling directly bracing. (size) 1=2-11-8, Max Horiz 1=-32 (LC Max Uplift 1=-3 (LC (LC 14) Max Grav 1=46 (LC (LC 1)	applied or 6-0-0 oc , 3=2-11-8, 4=2-11-8 2 10) 15), 3=-6 (LC 15), 4	de 6) Ga 7) Ga 8) Th ed or 9) * T on 3-(0) 6 10) Pr be =-21 1,000	balanced snow loads h sign. able requires continuous able studs spaced at 4-C is truss has been desig ord live load nonconcur 'his truss has been desi the bottom chord in all 06-00 tall by 2-00-00 wid ord and any other memi ovide mechanical conne aring plate capable of w 6 lb uplift at joint 3 and 3 CASE(S) Standard	s bottom chor)-0 oc. ned for a 10.1 gned for a liv areas where de will fit betv bers. ection (by oth vithstanding 3	d bearing. D psf bottom other live loa e load of 20.1 a rectangle ween the bott ers) of truss t b uplift at jo	ads. Opsf om to					
this design	(lb) - Maximum Corr Tension 1-2=-37/35, 2-3=0/2 1-4=-36/34, 3-4=-36 2-4=-71/14 ed roof live loads have h. CE 7-10; Vult=130mph	9 /34 been considered fo									NTH CA	Rom
Cat. II; Exp	mph; TCDL=6.0psf; B p B; Enclosed; MWFR	S (envelope) exterio	or						4	i	OFESS	Dial

- zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 Truss designed for wind loads in the plane of the truss 3)
- only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10



818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	VL01	Valley	1	1	Job Reference (optional)	E15498440

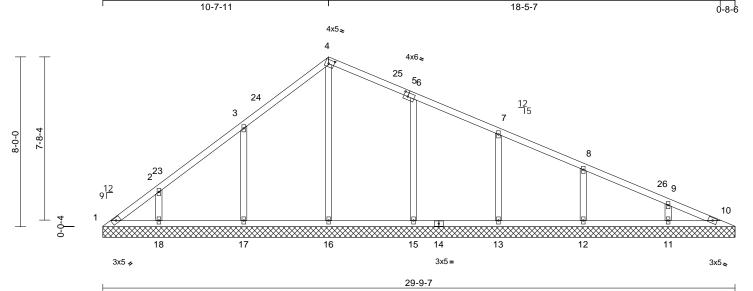
10-7-11

Run: 8.43 S Mar 4 2021 Print: 8.430 S Mar 4 2021 MiTek Industries, Inc. Mon Mar 15 12:36:10 ID:EFnoH6Yy??_LRyIJzZdXCJzanr?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

29-1-2

f 29-9-7

818 Soundside Road Edenton, NC 27932 Page: 1



```
Scale = 1:54.3
```

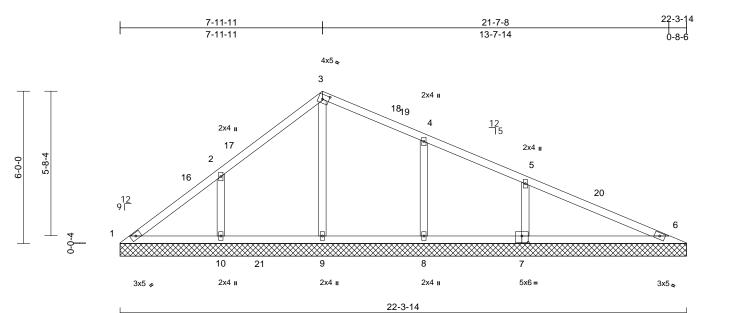
Plate Offsets (X, Y): [4:0-3-0,0-2-4], [6:0-2-4,0-2-4]

						r		· · · · ·						
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	0.30	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)		20.0	Lumber DOL	1.15		BC	0.17	Vert(TL)	n/a	-	n/a	999		
TCDL		10.0	Rep Stress Incr	YES		WB	0.25	Horiz(TL)	0.01	10	n/a	n/a		
BCLL		0.0*	Code	IRC2	015/TPI2014	Matrix-MSH								
BCDL		10.0											Weight: 132 lb	FT = 20%
LUMBER					NOTES									
TOP CHORD	2x4 SP N	lo.2			1) Unbalanced	roof live loads hav	e been	considered fo	r					
BOT CHORD	2x4 SP N	0.2			this design.									
OTHERS	2x4 SP N	lo.3			2) Wind: ASCE	7-10; Vult=130mp	h (3-se	cond gust)						
BRACING						ph; TCDL=6.0psf;								
TOP CHORD	Structura	l wood she	athing directly applie	d or		B; Enclosed; MWF								
	6-0-0 oc	purlins.	• • • •			C Exterior (2) 0-0-								
BOT CHORD	Rigid ceil	ing directly	applied or 10-0-0 oc	;		0, Exterior (2) 7-8-								
	bracing.					-1-10, Exterior (2)								
REACTIONS	(size)	1=29-9-7,	, 10=29-9-7, 11=29-9	9-7,		d;C-C for members								
			7, 13=29-9-7, 15=29·			shown; Lumber D			.0					
			7, 17=29-9-7, 18=29-	-9-7	DOL=1.60			- p 3. p						
	Max Horiz				 Truss design 	ned for wind loads	in the pl	ane of the tru	SS					
	Max Uplift 1=-59 (LC 10), 11=-76 (LC 15),					uds exposed to wir								
			.C 15), 13=-83 (LC 1			d Industry Gable E								
		15=-93 (L 18=-112 (.C 15), 17=-167 (LC	<i>,,</i>	or consult qualified building designer as per ANSI/TPI 1. 4) TCLL: ASCE 7-10: Pr=20.0 psf (roof live load: Lumber									
	Max Grav		C 25), 10=73 (LC 23)											
			LC 1), 12=331 (LC 2			late DOL=1.15); P								
			LC 3), 15=455 (LC 6)			=1.15 Plate DOL=	=1.15); C	ategory II; Ex	фВ;					
			LC 23), 17=444 (LC 2		Fully Exp.; C 5) Unbalanced	snow loads have t		onidered for th	nia					CT C C
		18=300 (l	LC 27)		design.	Show loads have i	Jeen co		115				11111 01	1111
FORCES	(lb) - Max	imum Com	pression/Maximum		0	e 2x4 MT20 unless	otherw	ise indicated					TH UA	ROUL
	Tension				/ !	es continuous bott						N	ON FRO	ALA SA
TOP CHORD	1-2=-179	/186, 2-23=	-122/121,		,	spaced at 4-0-0 of		a boaring.			/	52		M. alla
		,	1=-161/170 ,			as been designed f		0 psf bottom			4			Rel
		,	-98/168, 5-25=-112/	152,	chord live loa	ad nonconcurrent	with any	other live loa	ds.					1 1 1 E
			85/100, 7-8=-72/53,		10) * This truss I	nas been designed	l for a liv	e load of 20.0	Opsf		-		SEA	L <u>1</u> E
		,	90/0, 9-10=-115/23			m chord in all area		0			=		0262	• -
BOT CHORD		/140, 17-18	3=-12/121, 16=-12/121,			oy 2-00-00 wide wi					=		SEA 0363	ZZ ; =
			16=-12/121, 14=-12/121,			ny other members,						e 8		1 3
			14=-12/121, 12=-12/121,			hanical connection						3	·	airs
	10-11=-1		,			e capable of withst						15	A VGIN	EFICAN
WEBS			365/216, 2-18=-229/	156,		ift at joint 17, 112 l						11	710	COELIN
-	6-15=-303/142, 7-13=-235/131,			,	uplift at joint 15, 83 lb uplift at joint 13, 88 lb uplift at joint 12 and 76 lb uplift at joint 11.								A. G	ILPIN
		,	1=-212/115		LOAD CASE(S)								A. C	IIIII.
					LUAD CASE(S)	Stanualu							March	15,2021
													inditio	, 202 .

Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	VL02	Valley	1	1	Job Reference (optional)	E15498441

Run: 8.43 S Mar 4 2021 Print: 8.430 S Mar 4 2021 MiTek Industries, Inc. Mon Mar 15 12:36:10 ID:EFnoH6Yy??_LRyIJzZdXCJzanr?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:45.4

Plate Offsets	(X. Y):	[3:0-3-0,0-2-4],	[7:0-3-0.0-3-0]

			1			1		· · ·					1	
Loading		(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)		20.0	Plate Grip DOL	1.15		тс	0.48	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)		20.0	Lumber DOL	1.15		BC	0.27	Vert(TL)	n/a	-	n/a	999		
TCDL		10.0	Rep Stress Incr	YES		WB	0.47	Horiz(TL)	-0.02	6	n/a	n/a		
BCLL		0.0*	Code	IRC20	15/TPI2014	Matrix-MSH								
BCDL		10.0											Weight: 90 lb	FT = 20%
LUMBER					2) Wind: ASCE 7-10; Vult=130mph (3-second gust)									
TOP CHORD						Vasd=103mph; TCDL=6.0psf; BCDL=6.0ps								
BOT CHORD					Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior									
OTHERS	2x4 SP No	o.3			zone and C-C Exterior (2) 0-0-5 to 3-0-5, Interior (1)									
BRACING					3-0-5 to 5-0-0, Exterior (2) 5-0-0 to 11-0-0, Interior (1) 11-0-0 to 18-8-1, Exterior (2) 18-8-1 to 21-8-1 zone;									
TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins.				ed or	cantilever left and right exposed ; end vertical left and									
BOT CHORD	 Rigid ceiling directly applied or 6-0-0 oc bracing. 				right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip									
REACTIONS	0	1=22-3-14	4, 6=22-3-14, 7=22-3	3-14	DOL=1.60									
	8=22-3-14, 9=22-3-14, 10=22-3-14,					ned for wind loads								
	15=22-3-14				only. For studs exposed to wind (normal to the face),									
	Max Horiz 1=-163 (LC 12)				see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.									
	Max Uplift 1=-231 (LC 32), 7=-120 (LC 15), 8=-81 (LC 15), 10=-171 (LC 14)				 4) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber 									
					DOL=1.15 Plate DOL=1.15): Pf=20.0 psf (filt roof snow:									
Max Grav 1=29 (LC 14), 6=1 (LC 1), 7=483 (LC 1), 8=304 (LC 6), 9=864 (LC 3), 10=394 (LC 20), 15=1 (LC 1)					Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B;									
					Fully Exp.; Ct=1.105) Unbalanced snow loads have been considered for this									
				1) ह										
FORCES	FORCES (Ib) - Maximum Compression/Maximum				design.									
	Tension					res continuous bot		rd bearing.						
TOP CHORD 1-16=-121/563, 2-16=-101/630, 2-17=0/545,			,	 7) Gable studs spaced at 4-0-0 oc. 8) This truss has been designed for a 10.0 psf bottom 										
	3-17=0/629, 3-18=0/539, 18-19=0/469,											ROUL		
			6/525, 5-20=-89/538,			ad nonconcurrent						1	R	
6-20=-99/467			ç	 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 										
BOT CHORD 1-10=-450/139, 10-21=-450/139, 9-21=-450/139, 8-9=-450/139, 7-8=-450/139,				120							4			No.
	9-21=-450 6-7=-431/		-400/109,7-0=-400/	139,		by 2-00-00 wide w					1		:0	- K. /-
WEBS 3-9=-749/82, 2-10=-313/205, 4-8=-242/131,			31	chord and any other members, with BCDL = 10.0psf. 10) Provide mechanical connection (by others) of truss to SEAL										
WEBO	5-7=-324/		010/200, +-0=-242/1	01,		e capable of withs					=		SEA	• –
NOTES	57-524/										=		0363	322 : =
 Unbalanced roof live loads have been considered for this design. 					joint 1, 171 lb uplift at joint 10, 81 lb uplift at joint 8 and 036322 120 lb uplift at joint 7.							1 2		
					10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 231 lb uplift at joint 1, 171 lb uplift at joint 10, 81 lb uplift at joint 8 and 120 lb uplift at joint 7. LOAD CASE(S) Standard								1 3	
													-cRi'L S	
					19 A.						1	NO GINEF ON		
												1	CA -	BEIN
													11, A. C	11-111

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



G A. GIL March 15,2021

Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	VL03	Valley	1	1	Job Reference (optional)	E15498442

Loading

Snow (Pf)

LUMBER

OTHERS

BRACING

TOP CHORD

BOT CHORD

FORCES

TOP CHORD

BOT CHORD

this design.

DOL=1.60

WEBS

NOTES 1)

2)

REACTIONS (size)

10-0-0 oc purlins.

Max Horiz 1=-107 (LC 12)

1=14-10-4, 4=14-10-4, 5=14-10-4,

1=-155 (LC 32), 5=-117 (LC 15),

1=49 (LC 31), 4=1 (LC 1), 5=441

(LC 32), 6=789 (LC 1), 11=1 (LC 1)

6=14-10-4, 11=14-10-4

6=-49 (LC 14)

(Ib) - Maximum Compression/Maximum

1-12=-70/469, 2-12=-54/552, 2-13=-15/444,

1-6=-375/130, 5-6=-375/130, 4-5=-375/130

2-6=-675/154, 3-5=-314/156

Unbalanced roof live loads have been considered for

Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior

zone and C-C Exterior (2) 0-0-5 to 8-4-0, Interior (1) 8-4-0 to 11-2-7, Exterior (2) 11-2-7 to 14-2-7 zone; cantilever left and right exposed ; end vertical left and right exposed:C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip

Wind: ASCE 7-10; Vult=130mph (3-second gust)

13-14=-17/406, 3-14=-27/362, 3-15=-83/468,

bracing.

Max Uplift

Max Grav

Tension

4-15=-100/406

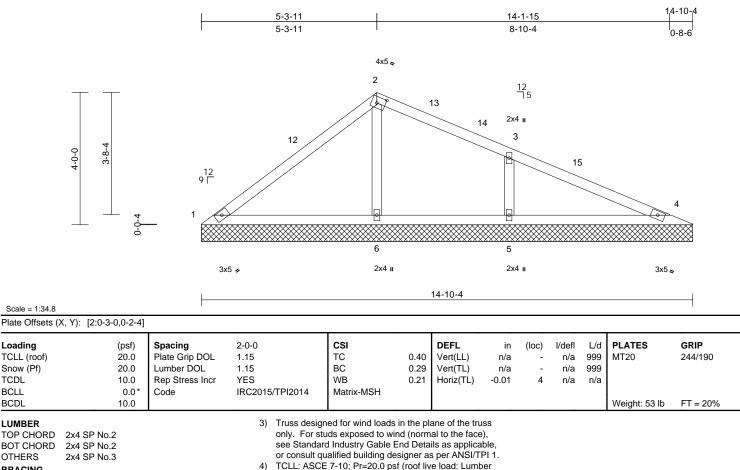
TCDL

BCLL

BCDL

Run: 8 43 S Mar, 4 2021 Print: 8 430 S Mar, 4 2021 MiTek Industries, Inc. Mon Mar 15 12:36:11 ID:iSLBUSZamJ6C36tVXH9mIXzanr_-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



- 4) DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Structural wood sheathing directly applied or Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.: Ct=1.10 Rigid ceiling directly applied or 6-0-0 oc 5) Unbalanced snow loads have been considered for this design.
 - 6) Gable requires continuous bottom chord bearing.
 - 7) Gable studs spaced at 4-0-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom
 - chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf 9) on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 155 lb uplift at joint 1, 49 lb uplift at joint 6 and 117 lb uplift at joint 5.
 - LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	VL04	Valley	1	1	Job Reference (optional)	E15498443

Scale = 1:24.9

Loading

TCLL (roof)

Snow (Pf)

LUMBER

OTHERS

BRACING

TOP CHORD

BOT CHORD

TOP CHORD

BOT CHORD

FORCES

WEBS

2)

NOTES 1)

TOP CHORD

BOT CHORD

this design.

REACTIONS (size)

TCDL

BCLL

BCDL

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

2x4 SP No 2

2x4 SP No.2

2x4 SP No.3

bracing.

Max Grav

Tension

2-4=-665/222

7-4-11 oc purlins.

2-0-0

(psf)

20.0

20.0

10.0

0.0

10.0

9=7-4-11

Run: 8 43 S Mar, 4 2021 Print: 8 430 S Mar, 4 2021 MiTek Industries, Inc. Mon Mar 15 12:36:11 ID:5Y9BKcXKW5RfPWyXkA1g1izanls-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

2-7-11 6-8-5 7-4-11 2-7-11 0-8-6 4-0-10 5x6 😞 12 7 5 2 10 12 9 Г 1-8-4 3 4 2x4 🥠 2x4 II 3x5 🛼 7-4-11 Spacing 2-0-0 CSI DEFL l/defl L/d PLATES GRIP in (loc) Plate Grip DOL 1.15 тс 0.40 Vert(LL) n/a 999 MT20 244/190 n/a Lumber DOL 1.15 BC 0.36 Vert(TL) n/a n/a 999 Rep Stress Incr WB Horiz(TL) 3 YES 0.14 -0.01 n/a n/a Code IRC2015/TPI2014 Matrix-MP Weight: 24 lb FT = 20% 4) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.: Ct=1.10 5) Unbalanced snow loads have been considered for this desian. Structural wood sheathing directly applied or 6) Gable requires continuous bottom chord bearing. Gable studs spaced at 4-0-0 oc. 7) Rigid ceiling directly applied or 6-0-0 oc This truss has been designed for a 10.0 psf bottom 8) chord live load nonconcurrent with any other live loads. 1=7-4-11, 3=7-4-11, 4=7-4-11, 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle Max Horiz 1=-50 (LC 12) 3-06-00 tall by 2-00-00 wide will fit between the bottom Max Uplift 1=-202 (LC 32), 4=-61 (LC 15) chord and any other members. 1=33 (LC 15), 3=121 (LC 7), 4=735 10) Provide mechanical connection (by others) of truss to (LC 1), 9=121 (LC 7) bearing plate capable of withstanding 202 lb uplift at (lb) - Maximum Compression/Maximum joint 1 and 61 lb uplift at joint 4. LOAD CASE(S) Standard 1-10=-149/534, 2-10=-140/555, 2-3=-144/499 1-4=-426/182. 3-4=-182/426 mining Unbalanced roof live loads have been considered for 0 O Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior VIIIIIIIIIIII zone and C-C Exterior (2) zone; cantilever left and right and a second SEAL exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; 036322

Lumber DOL=1.60 plate grip DOL=1.60 Truss designed for wind loads in the plane of the truss 3) only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

> 818 Soundside Road Edenton, NC 27932

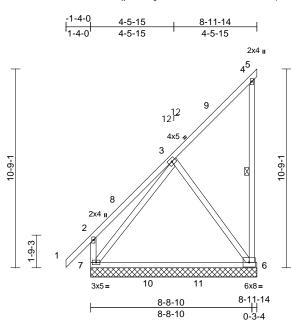
G mmm March 15,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to preven tbuckling 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, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	101	Monopitch	2	1	E15498444 Job Reference (optional)	

Run: 8,43 S Mar 4 2021 Print: 8,430 S Mar 4 2021 MiTek Industries, Inc. Mon Mar 15 12:36:01 ID:MtljyMlxV1zgJxS?Ch0QcbzanxC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:62.3

		i											
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	0.54	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15		BC	0.76	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES		WB	0.37	Horz(CT)	-0.01	5	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2	014	Matrix-MP								
BCDL	10.0											Weight: 73 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SP No.1 2x4 SP No.3 *Excep 2.0E Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. 1 Row at midpt	athing directly applie cept end verticals. applied or 10-0-0 oc 4-6 4, 6=8-11-14, 7=8-11 C 11) C 21), 6=-436 (LC 1- 5 10)	designed 4) This Ioad over 5) Gab dor 6) This chor 7) * Thi 3-06 chor -14 8) One 4), This Iater	n. truss ha of 12.0 hangs n e requir truss ha d live lo s truss l e bottor 00 tall l d and a RT7A L to bear connec al forces		for great flat roof li h other li tom chor for a 10.1 with any d for a liv as where ill fit betw , with BC commen IPLIFT at	er of min roof pad of 20.0 p ve loads. d bearing. D psf bottom other live loa e load of 20.1 a rectangle veen the bott DL = 10.0ps ded to conne ; jt(s) 5, 6, an	f live sf on ads. Opsf om f. ect d 7.					
FORCES	7=535 (L0 (lb) - Maximum Com Tension	,		-OL(O)	Standard								
TOP CHORD	1-2=0/63, 2-8=-130/ 3-9=-259/152, 4-9=- 4-6=-453/286, 2-7=-	203/170, 4-5=-205/1	73,										11.5
BOT CHORD	7-10=-182/181, 10-1 6-11=-182/181	1=-182/181,										NITH CA	RO
WEBS	3-6=-290/254, 3-7=-	388/152									5	A SECO	D. Inil
Vasd=103 Cat. II; Ex zone and 1-8-0 to 8- end vertic forces & M DOL=1.60 2) TCLL: AS DOL=1.15	CE 7-10; Vult=130mph smph; TCDL=6.0psf; B p B; Enclosed; MWFR C-C Exterior (2) -1-4-0 -11-14 zone; cantilever al left and right expose WFRS for reactions s VFRS for reactions s v plate grip DOL=1.60 CE 7-10; Pr=20.0 psf (5 Plate DOL=1.15); Pf= OL=1.15 Plate DOL=1 · Ct=1 10	CDL=6.0psf; h=25ft; S (envelope) exterior to 1-8-0, Interior (1) left and right expose d;C-C for members a hown; Lumber roof live load: Lumbe 20.0 psf (flat roof sno	ed ; and er ow:							We wanted	Ì	SEA 0363	L 22 EER. H

DOL=1.60 plate grip DOL=1.60 TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber 2) DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

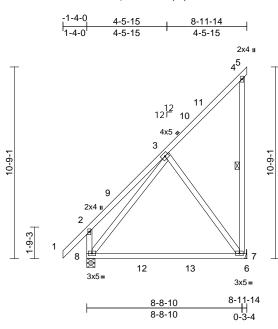


March 15,2021

minimite

Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	102	Monopitch	1	1	Job Reference (optional)	E15498445

Run: 8,43 S Mar 4 2021 Print: 8,430 S Mar 4 2021 MiTek Industries. Inc. Mon Mar 15 12:36:02 ID:EN0pEvbnY1KWFxyWyTHNaszanxP-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:64.7

		1										
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	-0.28	7-8	>364	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.57	7-8	>182	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.00	7	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI207	4 Matrix-MP								
BCDL	10.0				-						Weight: 73 lb	FT = 20%
LUMBER TOP CHORD	2x4 SP No.2		3) Unbala desigr	nced snow loads have	e been coi	nsidered for th	his					
BOT CHORD			4) This tr	uss has been designed	d for great	er of min roof	live					
WEBS	2x4 SP No.3 *Excep	ot* 4-7:2x4 SP 2400F	load o	12.0 psf or 1.00 times	s flat roof l	oad of 20.0 p	sf on					
	2.0E			ngs non-concurrent w	ith other li	ve loads.						
BRACING				uss has been designed								
TOP CHORD	Structural wood she	athing directly applie	;u ui	ive load nonconcurrer								
	6-0-0 oc purlins, ex		,	russ has been design			Opsf					
BOT CHORD	 Rigid ceiling directly bracing. 	applied or 10-0-0 oc	<u> </u>	bottom chord in all are tall by 2-00-00 wide	will fit bety	veen the botto						
WEBS	1 Row at midpt	4-7		and any other member			f.					
REACTIONS		anical, 8=0-5-8		o girder(s) for truss to								
	Max Horiz 8=408 (LO	,		e mechanical connecti								
	Max Uplift 7=-222 (L	.C 11), 8=-24 (LC 10) joint 7	g plate capable of with	istanding 2	22 ID uplift at	[
	Max Grav 7=508 (L	C 24), 8=541 (LC 29)	\ ·	T7A USP connectors I	recommer	ded to conne	ct					
FORCES	(lb) - Maximum Corr	pression/Maximum		bearing walls due to			:01					
	Tension			tion is for uplift only a			teral					
TOP CHORD			forces									
	3-10=-263/159, 10-1		LOAD CA	SE(S) Standard								
	4-11=-229/178, 4-5=	=-17/0, 4-7=-175/143	B,	()								
	2-8=-238/319	10.404/400										
BOT CHORD	8-12=-184/189, 12-1 7-13=-184/189, 6-7=	,									MILLIN	11111
WEBS	3-7=-304/267, 3-8=-										WH CA	ROUL
NOTES	07-004/207, 0-0=-	000/142								1	R	- Alle
	CE 7-10; Vult=130mph	(2 cocond quet)								E.	O' EESS	Con Vila
	3mph; TCDL=6.0psf; B								4	27		This Min
	xp B; Enclosed; MWFR								1		2	104.01-
	C-C Exterior (2) -1-4-0								-		SEA	a i i
	5-11-14, Exterior (2) 5-1								=	:	SLF	• –
	r left and right exposed								=		0363	322 : =
	osed;C-C for members		S							i d		
	ons shown; Lumber DC	L=1.60 plate grip								1	SEA 0363	2 1 E
DOL=1.60										1.0	N.SNOIN	EEP. AN
	SCE 7-10; Pr=20.0 psf (1	PL	F. ER N
	5 Plate DOL=1.15); Pf= DOL=1.15 Plate DOL=1									1	11, A. C	211 Brin
	JOL=1.15 Plate DOL=1	. 15), Category II; EX	μם,								11	

- DOL=1.60 2)
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

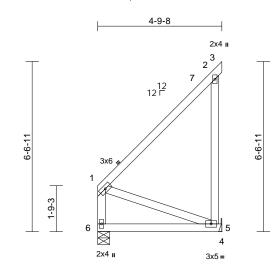


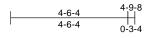
March 15,2021

A. GI A. GIL

Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	J01	Monopitch Supported Gable	5	1	Job Reference (optional)	E15498446

Run: 8.43 S Mar 4 2021 Print: 8.430 S Mar 4 2021 MiTek Industries, Inc. Mon Mar 15 12:36:02 ID:Y1SIspUJJA8edYX3LAV2h3zanoV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:44.5

Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2	015/TPI2014	CSI TC BC WB Matrix-MP	0.65 0.23 0.05	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.02 -0.04 0.00	(loc) 5-6 5-6 5	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 35 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood shea 4-9-8 oc purlins, exa Rigid ceiling directly bracing. (size) 5= Mecha Max Horiz 6=221 (LC Max Uplift 5=-150 (L Max Grav 5=271 (LC	cept end verticals. applied or 10-0-0 or inical, 6=0-5-8 C 11) C 11), 6=-41 (LC 10	ed or	 on the bottor 3-06-00 tall I chord and ard Refer to gird Provide mec bearing plate joint 5. One RT7A L truss to bear 	has been designe in chord in all are by 2-00-00 wide w y other member er(s) for truss to hanical connection e capable of with ISP connectors r ing walls due to l is for uplift only ar Standard	as where will fit betw s. truss conr on (by oth standing 1 ecommen UPLIFT at	a rectangle veen the bott nections. ers) of truss 50 lb uplift a ded to conne ; jt(s) 6. This	to t t					
,	(lb) - Maximum Com Tension 1-6=-209/67, 1-7=-1 2-3=-13/0, 2-5=-193/ 5-6=-216/145, 4-5=0 1-5=-115/170 CE 7-10; Vult=130mph	77/97, 2-7=-129/126 /122 //0 (3-second gust)	ί,										

- Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) interior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	PB03	Piggyback	4	1	Job Reference (optional)	E15498447

Scale = 1:42.1

Loading

TCLL (roof)

Snow (Pf)

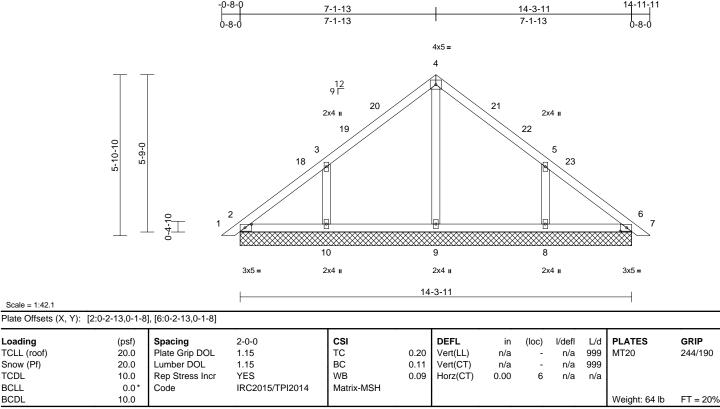
TCDL

BCLL

BCDL

Run: 8.43 S Mar 4 2021 Print: 8.430 S Mar 4 2021 MiTek Industries, Inc. Mon Mar 15 12:36:06 ID:nJYYtW0IBNZYI9KKMin7w7zannq-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



LUMBER TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 OTHERS 2x4 SP No.3 BRACING TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. REACTIONS (size) 2=14-3-11, 6=14-3-11, 8=14-3-11, 9=14-3-11, 10=14-3-11 11=14-3-11, 15=14-3-11 Max Horiz 2=-141 (LC 12), 11=-141 (LC 12) Max Uplift 2=-15 (LC 15), 8=-161 (LC 15), 10=-162 (LC 14), 11=-15 (LC 15) 2=159 (LC 25), 6=152 (LC 1), Max Grav 8=361 (LC 25), 9=235 (LC 1), 10=362 (LC 24), 11=159 (LC 25), 15=152 (LC 1) FORCES (Ib) - Maximum Compression/Maximum Tension TOP CHORD 1-2=0/16, 2-18=-131/91, 3-18=-96/98, 3-19=-144/96, 19-20=-110/107, 4-20=-110/122, 4-21=-110/114, 21-22=-110/101, 5-22=-135/88, 5-23=-53/53, 6-23=-97/46, 6-7=0/16 BOT CHORD 2-10=-38/99, 9-10=-38/99, 8-9=-38/99, 6-8=-38/99 WEBS 4-9=-157/0, 3-10=-277/196, 5-8=-277/196 NOTES 1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-3-1 to 3-3-1, Interior (1) 3-3-1 to 4-10-3, Exterior (2) 4-10-3 to 10-10-3, Interior (1) 10-10-3 to 12-5-4, Exterior (2) 12-5-4 to 15-5-4 zone; cantilever left and right exposed ; end vertical left and right exposed C-C for members and forces & MWERS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber 4) DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- Unbalanced snow loads have been considered for this 5) desian.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- 8) Gable studs spaced at 4-0-0 oc.
 - 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
 - 11) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 10, and 8. This connection is for uplift only and does not consider lateral forces.
 - 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

ORT CHIMAN CONTRACT 1111111111 SEAL 36322 G mmm March 15,2021

LOAD CASE(S) Standard

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall a duss system: plantieter and property incorporate dust using in the version of the second property incorporate and begin into version of the version of the



Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	PB04	Piggyback	1	1	Job Reference (optional)	E15498448

Run: 8,43 S Mar 4 2021 Print: 8,430 S Mar 4 2021 MiTek Industries, Inc. Mon Mar 15 12:36:07 Page: 1 ID:Yr1aZF6JJrZPFNxsqOw?Fpzanni-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 0-8-0 14-11-11 4-2-5 10-1-5 14-3-11 4-2-5 5-11-0 4-2-5 0-8-0 0-8-0 12 9 Г 3x5 = 2x4 II 6x8 = 3 19 4 20 5 0-2-2 3-6-6 \bowtie < 0 2x4 🛛 6 3-4-4 3-4-4 Þ 2 7 0-4-10 ٣ Г Ľ 10 9 11 2x4 II 2x4 II 3x5 = 2x4 II 3x5 = 14-3-11

3-8-0

Scale = 1:32.7		
Plate Offsets (X, Y):	[2:0-2-13,0-1-8], [3:0-5-3,Edge], [5:0-2-8,Edge], [7:0-2-13,0-1-8]

Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
FCLL (roof)	20.0	Plate Grip DOL	1.15		TC	0.31	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
Snow (Pf)	20.0	Lumber DOL	1.15		BC	0.30	Vert(CT)	n/a	-	n/a	999			
TCDL	10.0	Rep Stress Incr	YES		WB	0.09	Horz(CT)	0.00	15	n/a	n/a			
BCLL	0.0*	Code	IRC20	5/TPI2014	Matrix-MSH							Waisht: 50 lb	FT 00%	
BCDL	10.0											Weight: 59 lb	FT = 20%	
UMBER			2		7-10; Vult=130m								es not depict the size	
TOP CHORD	2x4 SP No.2				ph; TCDL=6.0psf;							of the purlin alon	g the top and/or	
BOT CHORD	2x4 SP No.2				B; Enclosed; MWF					tom choi				
OTHERS	2x4 SP No.3				C Exterior (2) zon				LOAD	CASE(S) Sta	ndard		
BRACING					nd vertical left and nd forces & MWFR									
TOP CHORD		eathing directly applie	ed or		L=1.60 plate grip [,						
	6-0-0 oc purlins, ex		3		ned for wind loads			22						
	2-0-0 oc purlins (6-0				uds exposed to wi									
BOT CHORD	0 0 ,	applied or 10-0-0 o	С		d Industry Gable E									
	bracing.				ualified building de									
REACTIONS	. ,	1, 7=14-3-11, 9=14-3	^{3-11,} 4) TCLL: ASCE	E 7-10; Pr=20.0 ps	f (roof liv	/e load: Lumb	er						
		11, 11=14-3-11, 11, 15=14-3-11			Plate DOL=1.15); F									
	Max Horiz 2=-84 (L0		2)	Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10 5) Unbalanced snow loads have been considered for this										
	Max Uplift 2=-24 (LC		, , ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,											
		10=-65 (LC 10), 11=-		 Unbalanced snow loads have been considered for this design. 										
		12=-24 (LC 14), 15=·			a haan daalamad			live						
	15)		- (6	,	This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on									
	Max Grav 2=344 (L	C 40), 7=224 (LC 40),		ion-concurrent wit			51 011						
	9=310 (L	C 40), 10=446 (LC 3	9), 7		quate drainage to			,						
		LC 55), 12=344 (LC	40), 8		res continuous bot			J.					111.	
	15=224 (,	g		spaced at 4-0-0 o		a souring.					M' I CI	ND 111	
FORCES	()	npression/Maximum	1		as been designed		0 psf bottom					"ATH UP	NO III	
	Tension			chord live lo	ad nonconcurrent	with any	other live loa	ds.			N	OTHESE	12. A.L.	
TOP CHORD	1-2=0/25, 2-3=-254		1	1) * This truss	has been designe	d for a liv	e load of 20.0)psf			E.	PLOT	N: N	
	,	=-121/79, 5-20=-121	/79,		m chord in all area					2			and the second s	
	5-6=-218/74, 6-7=-1 2-11=-26/125, 10-1	,	<u>م</u>		by 2-00-00 wide w		ween the botto	om		-	1			
BOT CHORD	2-11=-26/125, 10-1 7-9=-2/125	1=-2/125, 9-10=-2/12	,		ny other members					=	:	SEA	\L : =	
WEBS		=-369/111, 6-9=-226	/106		JSP connectors re					E		0363	22	
	5-11=-202/54, 4-10		/100		ring walls due to U							. 0505	· · · · · · · · · · · · · · · · · · ·	
	ed roof live loads have	been considered to	-	consider late	connection is for u	pint only	and upes not				5	N.	1 3	
this design		been considered to				ack Trus	s Connection				2.	N. En	Rik S	
uns design				 See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or 							115		EF	
				consult qualified building designer.							1	1C	BEIN	
											11, A. C	il Luni		
												111111	THUE.	
												Marc	h 15 2021	

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



March 15,2021

8

Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	PB07	Piggyback	1	1	E15498449 Job Reference (optional)	9

0-6-9

1-4-7 1-4-7

Carter Components, Chesapeake, VA - 23323,

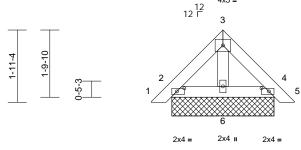
Run: 8,43 S Mar 4 2021 Print: 8,430 S Mar 4 2021 MiTek Industries. Inc. Mon Mar 15 12:36:08 ID:23Wxi5bPck1YSpm7rUj?VfzansE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

2-8-14

1-4-7

4x5 =

Page: 1



2-8-14

Scale = 1:30.9 Pla

Plate Offsets	(X, Y): [2:0-2-6,0-1-0]	, [4:0-2-6,0-1-0]											
Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2015	5/TPI2014	CSI TC BC WB Matrix-MP	0.02 0.03 0.01	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 14 lb	GRIP 244/190 FT = 20%
LUMBER FOP CHORE SOT CHORE DTHERS BRACING FOP CHORE BOT CHORE REACTIONS	 2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood she 3-10-8 oc purlins. Rigid ceiling directly bracing. (size) 2=2-8-14 7=2-8-14 Max Horiz 2=-43 (LC Max Uplift 2=-14 (LC (LC 14), 7 15) Max Grav 2=87 (LC (LC 1), 7 (lb) - Maximum Con 	C 14), 4=-18 (LC 15), 7=-14 (LC 14), 10=-1 C 1), 4=87 (LC 1), 6=8 =87 (LC 1), 10=87 (L	6) , 7) 8) 9) 6=-4 10 8 (LC 10	DOL=1.15 P Lumber DOL Fully Exp.; C Unbalanced design. This truss ha load of 12.0 overhangs n Gable requir Gable studs This truss ha chord live loa) * This truss ha on the bottor 3-06-00 tall b chord and ar) One RT7A U	7-10; Pr=20.0 p: late DOL=1.15; I =1.15 Plate DOL =1.15 Plate DOL it=1.10 snow loads have so been designed psf or 1.00 times on-concurrent wit es continuous bo spaced at 2-0-0 us been designed an onconcurrent as been designed n chord in all are by 2-00-00 wide w y other member SP connectors ra ing walls due to U	Pf=20.0 ps =1.15); Ca been con for greate flat roof lc th other liv ttom chore oc. for a 10.0 t with any iv d for a live as where a vill fit betw s.	sf (flat roof sr ategory II; Ex sidered for th er of min roof ad of 20.0 ps e loads. d bearing. psf bottom other live loa e load of 20.0 a rectangle een the botto ded to conne	now: p B; his live sf on ds. Dpsf cm ct					
this desig 2) Wind: AS Vasd=10 Cat. II; E zone and exposed members Lumber I 3) Truss de only. For see Stan	2 -6=-12/40, 4-6=-12 3-6=-32/0 ced roof live loads have	been considered for (3-second gust) CDL=6.0psf; h=25ft; S (envelope) exterior cantilever left and rig ght exposed;C-C for for reactions shown; DL=1.60 the plane of the trust (normal to the face) d Details as applicab	12 r ght ss ole,	lateral forces) See Standar Detail for Co	d Industry Piggyt nnection to base fied building desi	back Truss truss as a	Connection			As a filler	A MARINE MARINE	SEA 0363	EER ER III

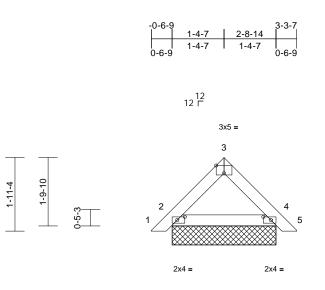
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	PB08	Piggyback	7	1	E1 Job Reference (optional)	15498450

Run: 8,43 S Mar 4 2021 Print: 8,430 S Mar 4 2021 MiTek Industries. Inc. Mon Mar 15 12:36:08 ID:C0ShTM4?2KHHzbi50jzhxIzanuB-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



2-8-14

Scale = 1:30.4

Plate Offsets (X, Y): [2:0-2-6,0-1-0], [3:0-2-8,Edge], [4:0-2-6,0-1-0]

Loading TCLL (roof) Snow (Pf) TCDL	(psf) 20.0 20.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES		CSI TC BC WB	0.03 0.04 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	GRIP 244/190
BCLL BCDL	0.0* 10.0	Code	IRC20	15/TPI2014	Matrix-MP							Weight: 12 lb	FT = 20%
LUMBER TOP CHORD SOT CHORD BRACING TOP CHORD SOT CHORD REACTIONS FORCES TOP CHORD SOT CHORD NOTES	2x4 SP No.2 2x4 SP No.2 Structural wood she 3-10-8 oc purlins. Rigid ceiling directly bracing. (size) 2=2-8-14, 9=2-8-14 Max Horiz 2=-43 (LC Max Uplift 2=-16 (LC 6=-16 (LC Max Grav 2=131 (LC (LC 1), 9= (lb) - Maximum Com Tension 1-2=0/15, 2-3=-71/2	applied or 10-0-0 oc 4=2-8-14, 6=2-8-14 (12), 6=-43 (LC 12) (14), 4=-16 (LC 15), (14), 9=-16 (LC 15) (21), 4=131 (LC 1), 6 (131 (LC 1)) (14), 14-131 (LC 1), 6 (131 (LC 1))	6 d or 7 ; 9 ; 1 ;=131 1 /15 1	 design. This truss hat load of 12.0 overhangs n Gable requir Gable studs This truss hat chord live loa * This truss hat chord and ar One RT7A L truss to bear This connect lateral forces See Standar Detail for Co 	d Industry Piggyb nnection to base fied building desig	for great flat roof I h other li tom chor c. for a 10. with any d for a liv as where vill fit betv. commer JPLIFT a ly and do ack Truss	er of min roof oad of 20.0 p ve loads. 'd bearing. 0 psf bottom other live loa re load of 20.1 a rectangle veen the bott ided to conne t jt(s) 2 and 4 bes not consid s Connection	f live sf on ads. Opsf om act der				vreight. 12 ib	
this design 2) Wind: AS	CE 7-10; Vult=130mph	(3-second gust)			Clandard							WHTH CA	AROLIN
Cat. II; Ex zone and exposed ; members Lumber D	8mph; TCDL=6.0psf; B0 p B; Enclosed; MWFR3 C-C Exterior (2) zone; end vertical left and ric and forces & MWFRS IOL=1.60 plate grip DO	S (envelope) exterio cantilever left and rig ght exposed;C-C for for reactions shown; PL=1.60	ght								ú	SEA 0363	• -
only. For see Stand	igned for wind loads in studs exposed to wind lard Industry Gable En- qualified building desig	(normal to the face) d Details as applicat	, ole,										- Rik !!
 4) TCLL: AS DOL=1.15 	CE 7-10; Pr=20.0 psf (5 Plate DOL=1.15); Pf=	roof live load: Lumbe 20.0 psf (flat roof sn	er ow:									A. C	EF. PERINI

or consult qualified building designer as per ANSI/TPI 1. TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber 4) DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



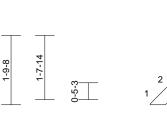
A. GILB

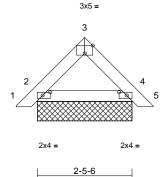
A. GILDIN

Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	PB10	Piggyback	3	1	E15498451 Job Reference (optional)	

Run: 8.43 S Mar 4 2021 Print: 8.430 S Mar 4 2021 MiTek Industries, Inc. Mon Mar 15 12:36:09 ID:HOov3YTZxFgWhbVOOvwGoRzanly-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

12 12 Г





Scale = 1:29.8

Plate Offsets (X, Y): [2:0-2-6,0-1-0], [3:0-2-8,Edge], [4:0-2-6,0-1-0]

Loading FCLL (roof) Snow (Pf) FCDL BCLL BCDL	2 2 1	osf) 0.0 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 IRC2015	5/TPI2014	CSI TC BC WB Matrix-MP	0.03 0.03 0.00	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 11 lb	GRIP 244/190 FT = 20%
	2x4 SP No.2 Structural woo 3-7-0 oc purlin Rigid ceiling d bracing. (size) 2=2 Max Horiz 2=- Max Uplift 2=- Max Grav 2=1 (LC	irectly -5-6, 4 39 (LC 15 (LC 15 (LC 19 (LC 1), 9=	athing directly applie applied or 10-0-0 or =2-5-6, 6=2-5-6, 9= 12), 6=-39 (LC 12) 14), 4=-15 (LC 15), 14), 9=-15 (LC 15) 1), 4=119 (LC 1), 6 119 (LC 1) oression/Maximum	ed or 7) 5 8) 9) 2-5-6 10	design. This truss ha load of 12.0 overhangs n Gable requir Gable studs This truss ha chord live loa) * This truss h on the bottor 3-06-00 tall k chord and ar One RT7A U truss to bear	snow loads have s been designed osf or 1.00 times on-concurrent wit as continuous bo spaced at 4-0-0 o s been designed d nonconcurrent as been designed n chord in all are- y 2-00-00 wide v y other members SP connectors re- ing walls due to U ion is for uplift or	for great flat roof lo th other liv ttom chor oc. for a 10.0 with any do for a liv as where vill fit betv s. ecommen JPLIFT at	er of min roof pad of 20.0 ps re loads. d bearing. 0 psf bottom other live loa e load of 20.0 a rectangle reen the botto ded to conne jt(s) 2 and 4.	live sf on ds. Dpsf om ct					
TOP CHORD BOT CHORD		-62/23	8, 3-4=-62/23, 4-5=0	/15 12	Detail for Co	d Industry Piggyb nnection to base fied building desi	truss as a							
 Unbalance this design Wind: ASC Vasd=103i Cat. II; Exp zone and (exposed; members a Lumber DC Truss desi only. For see Stand. TrCLL: ASC DOL=1.15 	n. CE 7-10; Vult=13 mph; TCDL=6.0 p B; Enclosed; N C-C Exterior (2) end vertical left and forces & MV OL=1.60 plate g igned for wind lo studs exposed to ard Industry Gat qualified building CE 7-10; Pr=20.0 Plate DOL=1.15 OL=1.15 Plate D	00mph psf; BC IWFRS zone; c and rig VFRS f rip DOI ads in o wind ole End g desig 0 psf (r 5); Pf=2	CDL=6.0psf; h=25ft; (envelope) exterio cantilever left and ri ht exposed;C-C for or reactions shown	r ght ss , , ele, il 1. er ow:	AD CASE(S)	0					1. Contraction of the second s		SEA 0363	EER ALL



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

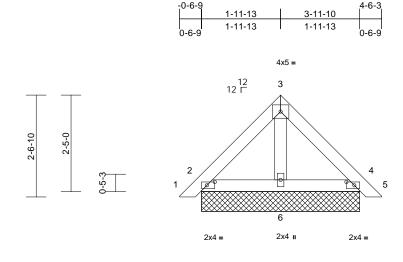
Job	Truss	Truss Type	Qty Ply 89 Lake Forest-Roof-BB-2086		89 Lake Forest-Roof-BB-2086	
21030024-A	PB05	Piggyback	1	1	Job Reference (optional)	E15498452

Run: 8.43 S Mar 4 2021 Print: 8.430 S Mar 4 2021 MiTek Industries, Inc. Mon Mar 15 12:36:07 ID:3hgV6zqOa4t4iUZkpvYweAzanqe-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

March 15,2021

NGINEERING

818 Soundside Road Edenton, NC 27932



	3-11-10	1
Scale = 1:28.9		
Plate Offsets (X, Y): [2:0-2-6,0-1-0], [4:0-2-6,0-1-0]		

Loading (psf) TCLL (roof) 20.0 Snow (Pf) 20.0 TCDL 10.0 BCLL 0.0* BCDL 10.0	Spacing 2-0 Plate Grip DOL 1.1: Lumber DOL 1.1: Rep Stress Incr YEs Code IRC	5 5	CSI TC BC WB Matrix-MP	0.04 0.05 0.01	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 19 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 OTHERS 2x4 SP No.3 BRACING TOP CHORD Structural wood she 5-1-4 oc purlins. BOT CHORD Rigid ceiling directly bracing. REACTIONS (size) 2=3-11-10 (7=3-11-10 Max Horiz 2=-58 (LC) Max Uplift 2=-20 (LC (LC 14), 7 15) Max Grav 2=119 (LC (LC 1), 7= 1) FORCES (lb) - Maximum Com Tension	 15), 4=-25 (LC 15), 6=-1 =-20 (LC 15), 10=-25 (LC 2), 10=-25 (LC 2), 4=119 (LC 1), 10=119 (LC 2), 10=119 (LC 3), 10=119 (LC	 only. For stisee Standar or consult qi TCLL: ASCE DOL=1.15 F Lumber DOI Fully Exp.; C Unbalanced design. This truss ha load of 12.0 overhangs r Gable studs This truss ha chord live lo * This truss is on the botto 3-06-00 tall chord and a One RT7A L truss to bear This connec lateral forces See Standar Detail for Construction 	snow loads have b as been designed for psf or 1.00 times fla on-concurrent with es continuous botto spaced at 2-0-0 oc as been designed for ad nonconcurrent w has been designed m chord in all areas by 2-00-00 wide will by other members. ISP connectors reoc- ting walls due to UP tion is for uplift only s. d Industry Piggybar innection to base fru fied building design	d (norm ad Deta igner as (roof liv =20.0 p =20.0 p =1.15); C een cor or great at roof lo other liv or a 10.0 ith any for a liv where fit betw ommen 'LIFT at and do ck Trus uss as a	al to the face) Is as applicat s per ANSI/TF e load: Lumbid of (flat roof sn ategory II; Ex- isidered for the er of min roof bad of 20.0 ps- ve loads. d bearing. D psf bottom other live load e load of 20.0 a rectangle veen the bottom det to conner it(s) 2, 4, and es not consid s Connection), ole, PI 1. er now: p B; nis live sf on ds. opsf om ct d 6.		Weithin the second s		SEA 0363	RO RO L 22 EEER-ER



Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	PB06	Piggyback	5	1	Job Reference (optional)	E15498453

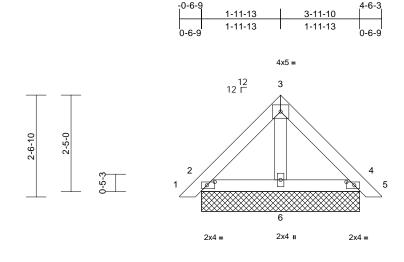
Run: 8.43 S Mar 4 2021 Print: 8.430 S Mar 4 2021 MiTek Industries, Inc. Mon Mar 15 12:36:08 ID:3DkMEbFjaWAFnj9Go29u0Lzanq6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



.

March 15,2021

818 Soundside Road Edenton, NC 27932



	3-11-10
Scale = 1:28.9	
Plate Offsets (X, Y): [2:0-2-6,0-1-0], [4:0-2-6,0-1-0]	

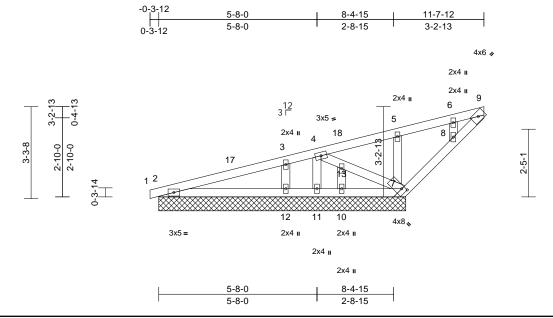
Loading (psf) TCLL (roof) 20.0 Snow (Pf) 20.0 TCDL 10.0 BCLL 0.0* BCDL 10.0	Spacing2-0Plate Grip DOL1.1Lumber DOL1.1Rep Stress IncrYECodeIRC	5 5	CSI TC BC WB Matrix-MP	0.04 0.05 0.01	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 19 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 OTHERS 2x4 SP No.3 BRACING TOP CHORD Structural wood she 5-1-4 oc purlins. BOT CHORD Rigid ceiling directly bracing. REACTIONS (size) 2=3-11-1 T=3-11-1 Max Horiz 2=-58 (LC Max Uplift 2=-20 (LC (LC 14), 15) Max Grav 2=119 (LL (LC 1), 7: 1) FORCES (lb) - Maximum Con Tension	 2 15), 4=-25 (LC 15), 6=-1 2-20 (LC 15), 10=-25 (LC C 1), 4=119 (LC 1), 6=122 e-119 (LC 1), 10=119 (LC apression/Maximum 7, 3-4=-76/47, 4-5=0/15 /46 been considered for (3-second gust) CDL=6.0psf; h=25ft; S (envelope) exterior cantilever left and right ght exposed;C-C for for reactions shown; 	 only. For see Stand, or consult 4) TCLL: ASC DOL=1.15 Lumber DO Fully Exp.; 5) Unbalance design. 6) This truss load of 12. overhangs 7) Gable requires a construction of the set of the se	d snow loads have o psf or 1.00 times non-concurrent wit irres continuous bol s spaced at 4-0-0 c has been designed oad nonconcurrent is has been designe om chord in all area l by 2-00-00 wide w any other members USP connectors re aring walls due to L ction is for uplift on es. and Industry Piggyb connection to base alified building design	nd (norm End Deta signer as if (roof liv Y=20.0 p == 1.15); C been cor for great flat roof k h other liv tom chor ic. for a 10.0 with any d for a liv s where ill fit betv commen IPLIFT at ly and dc ack Trus truss as a	al to the face ils as applical s per ANSI/TF e load: Lumb sf (flat roof sr ategory II; Ex asidered for th er of min roof bad of 20.0 ps re loads. d bearing. D psf bottom other live loa e load of 20.0 a rectangle ween the bottor ded to conne jt(s) 2, 4, and es not consid s Connection), ble, PI 1. er oow: φ B; his live sf on ds. Dpsf ct d 6. der				NGUNE IS IS OR THESS SEA 0363	ROWNING AND ALL AND AL

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	L01	Roof Special Structural Gable	2	1	Job Reference (optional)	E15498454

Run: 8,43 S Mar 4 2021 Print: 8,430 S Mar 4 2021 MiTek Industries, Inc. Mon Mar 15 12:36:05 ID:xDVt24uODD0II1XMYHEnEdzanyJ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff

Page: 1



Scale =	1:41.3	

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

Loading TCLL (roof)	(psf) 20.0	Plate Grip DOL	2-0-0 1.15		CSI TC	0.39	· · ·	in n/a	(loc) -	l/defl n/a	L/d 999	PLATES MT20	GRIP 244/190	
Snow (Pf) TCDL	20.0 10.0		1.15 YES		BC WB	0.20 0.08	Vert(CT) Horz(CT)	n/a 0.00	-7	n/a n/a	999 n/a			
BCLL	0.0*			5/TPI2014	Matrix-MP	0.08	11012(C1)	0.00	'	n/a	n/a			
BCDL	10.0	oodo	1102010	, TT 12011								Weight: 50 lb	FT = 20%	
	7-8-11 oc purlins. Rigid ceiling directly bracing. (size) 2=8-10-2, 11=8-10-2 Max Horiz 2=249 (LC Max Uplift 2=-18 (LC 11=-278 (14=-18 (L Max Grav 2=154 (LC 10=118 (L	7=8-10-2, 10=8-10-2, 2, 12=8-10-2, 14=8-10- C 14), 14=249 (LC 14) C 10), 7=-339 (LC 14), LC 21), 12=-91 (LC 14)	3) 2 4)), 5)	Vasd=103mp Cat. II; Exp E zone and C-0 2-0-0 to 10-1 cantilever lef right exposed for reactions DOL=1.60 Truss design only. For stu see Standarc or consult qu TCLL: ASCE DOL=1.15 Pl Lumber DOL Fully Exp.; C Unbalanced design.	7-10; Vult=130mp b; TCDL=6.0psf; 2 Exterior (2) -1-0. 1-1, Exterior (2) -1-0. 1-1, Exterior (2) -1-0. 1-1, Exterior (2) 4 and right expose d;C-C for members shown; Lumber D ed for wind loads ds exposed to win d Industry Gable E alified building de: 7-10; Pr=20.0 psf ate DOL=1.15); P =1.15 Plate DOL= t=1.10 snow loads have t	BCDL=6 RS (env. 0 to 2-0 -0-14 to d ; end v s and foi OL=1.60 in the pla d (norm nd Deta signer as f (roof liv f=20.0 p (1.15); C been cor	.0psf; h=25ft; elope) exterio -0, Interior (1) 10-11-1 zone; vertical left and cces & MWFR 0 plate grip ane of the trus al to the face) ils as applicat s per ANSI/TP e load: Lumbé sf (flat roof sn ategory II; Ex	r d S S S S S S S S S S S S S S S S S S	trus con forc 14) One trus 12. con 15) Gra or ti bott 16) Gap	s to bea nection es. RT7A s to bea This cor sider lat phical p he orien tom chor o betwee gonal or	ring w is for u USP c tring w nection eral fo urlin re tation rd. ven insi-	ralls due to UPLII uplift only and do onnectors recom ralls due to UPLII on is for uplift only rces. epresentation do of the purlin alon de of top chord b al web shall not e	es not depict the size g the top and/or pearing and first	
FORCES	(lb) - Maximum Com Tension	pression/Maximum	-,	load of 12.0	osf or 1.00 times fl	at roof le	bad of 20.0 ps					20010	11.	
TOP CHORD	1-2=0/5, 2-17=-181/ 3-4=-146/123, 4-18=	239/361, 208/396, 6-9=-221/44	, -,	All plates are Gable require Gable studs	2x4 MT20 unless es continuous bott spaced at 2-0-0 or	otherwi om chor c.	se indicated. d bearing.				. r.	OR SS	RO	
BOT CHORD	,	2=-96/15, 10-11=-96/15	,	chord live loa	s been designed f ad nonconcurrent v as been designed	with any	other live load			2	12	:0	M.	
WEBS	4-13=-279/105, 7-13 4-11=-77/181, 3-12= 5-7=-402/159, 6-8=-	-260/109, 10-13=-1/2,		 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 2-00-00 wide will fit between the bottom chord and any other members. 12) Bearing at joint(s) 2, 7, 11, 12, 10, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing automatical statement of the statement of the								• -		
NOTES				12) Bearing at joint(s) 2, 7, 11, 12, 10, 2 considers parallel to							二 キャント アンディー			
,	1) Unbalanced roof live loads have been considered for this design.				grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing							FERIX		

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

surface.

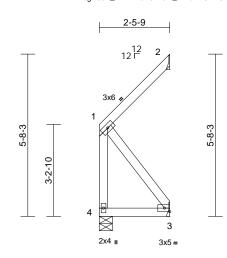


G Ginnin . March 15,2021

Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	CJ11	Jack-Open	1	1	Job Reference (optional)	E15498455

Run: 8.43 S Mar 4 2021 Print: 8.430 S Mar 4 2021 MiTek Industries, Inc. Mon Mar 15 12:35:43 ID:cgH30T_PWLMt9E9Lk5M_X4zanLS-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:40.3

Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2015/TPI2014	CSI TC BC WB Matrix-MP	0.18 0.06 0.08	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.00 0.00 0.00	(loc) 3-4 3-4 2	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 19 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	 2x4 SP No.2 2x4 SP No.3 Structural wood she 2-5-9 oc purlins, ex Rigid ceiling directly bracing. 	y applied or 10-0-0 oc anical, 3= Mechanica _C 12) C 14), 3=-90 (LC 11), C 12) : 23), 3=117 (LC 12),	on the bott 3-06-00 tal chord and 6) Refer to gi 7) Provide me bearing pla 2 and 90 lt 8) One RT7A truss to be connection forces.	has been designed om chord in all areas by 2-00-00 wide wi any other members. der(s) for truss to tru- chanical connectior te capable of withsta uplift at joint 3. USP connectors red aring walls due to UI is for uplift only and c) Standard	s where II fit betw uss conr (by oth anding 7 commen PLIFT at	a rectangle veen the botto nections. ers) of truss to 74 lb uplift at jo ided to connect t jt(s) 4. This	o o oint ct					
Vasd=10 Cat. II; Ex zone and exposed	Tension 1-4=-216/147, 1-2= 3-4=-156/130 1-3=-214/256 3mph; TCDL=6.0psf; B xp B; Enclosed; MWFR I C-C Exterior (2) zone; ; end vertical left and ri	n (3-second gust) ICDL=6.0psf; h=25ft; IS (envelope) exterio cantilever left and rig ight exposed;C-C for	ght						4		OR FESS	ROUNT
Lumber E 2) TCLL: AS DOL=1.1 Lumber E Fully Exp 3) Unbalanc design. 4) This truss	and forces & MWFRS OCL=1.60 plate grip DC SCE 7-10; Pr=20.0 psf 5 Plate DOL=1.15); Pf= OCL=1.15 Plate DOL=1 b; Ct=1.10 cd snow loads have be a load nonconcurrent w	DL=1.60 (roof live load: Lumbe =20.0 psf (flat roof sn .15); Category II; Ex een considered for th or a 10.0 psf bottom	er ow: p B; is							A A A A A A A A A A A A A A A A A A A	SEA 0363	EER HUU

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



A. GILB

March 15,2021

A. GILD

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	D02	Нір	1	1	Job Reference (optional)	E15498456

TCDL

BCLL

BCDL

WEBS

WEBS

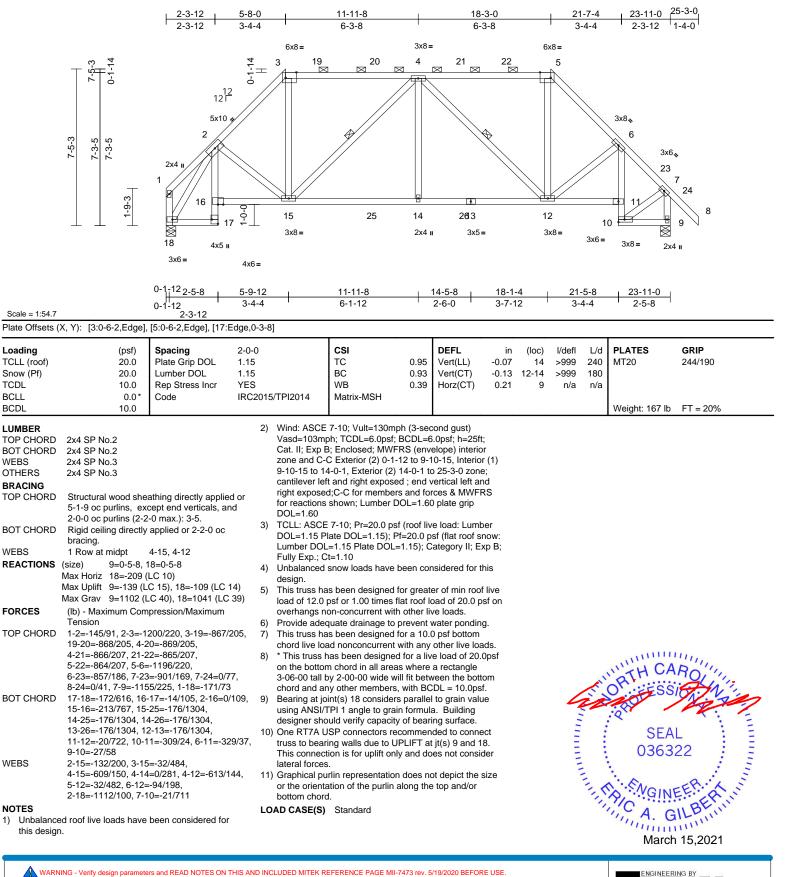
WEBS

1)

Run: 8 43 S Mar. 4 2021 Print: 8 430 S Mar. 4 2021 MiTek Industries. Inc. Mon. Mar. 15 12:35:46 ID:wDVYiZr7kSqqkq4h9vxoFlzan68-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

818 Soundside Road Edenton, NC 27932



 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE
 Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Job	Truss	Truss Type Qty Ply		Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	D03	Нір	1	1	Job Reference (optional)	E15498457

TCDL

BCLL

BCDL

WEBS

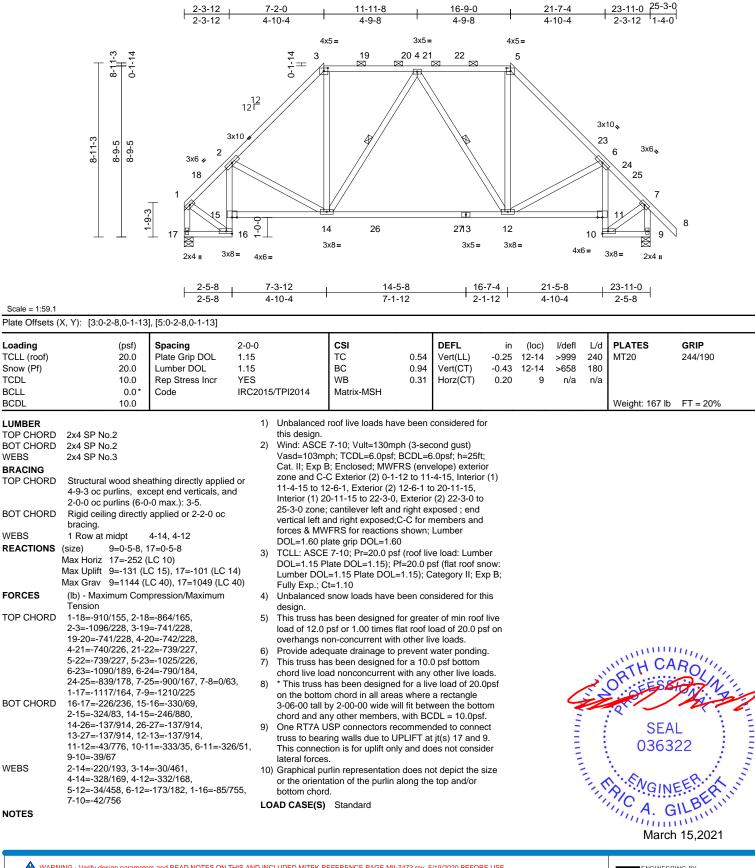
WEBS

WEBS

NOTES

Run: 8 43 S Mar. 4 2021 Print: 8 430 S Mar. 4 2021 MiTek Industries. Inc. Mon. Mar. 15 12:35:47 ID:BwLerbD3agW0Fy2Md4SmB4zan34-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	D04	Нір	1	1	Job Reference (optional)	E15498458

Run: 8,43 S Mar 4 2021 Print: 8,430 S Mar 4 2021 MiTek Industries, Inc. Mon Mar 15 12:35:48 ID:uO?H4elgCB3mWjQpCJE4_Mzan2O-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

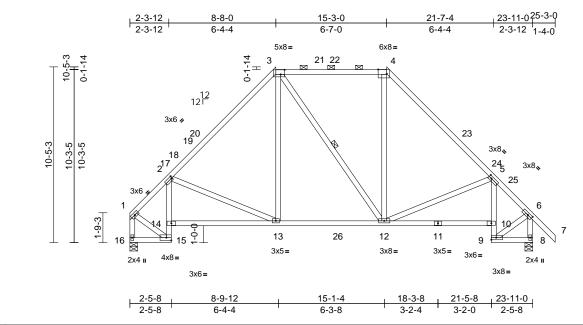


Plate Offsets (X, Y): [2:0-0-12,0-1-8], [3:0-2-12,0-3-4], [4:0-6-2, Edge], [5:0-2-0,0-1-8], [6:0-3-7,0-1-8]

		1			· · · · ·								-
Loading	(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15		тс	0.93	Vert(LL)	-0.08	12-13	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15		BC	0.88	Vert(CT)	-0.16	13-14	>999	180		
TCDL	10.0	Rep Stress Incr	YES		WB	0.36	Horz(CT)	0.21	8	n/a	n/a		
BCLL	0.0*	Code	IRC2015	/TPI2014	Matrix-MSH								
BCDL	10.0	-										Weight: 168 lb	FT = 20%
LUMBER			2)	Wind: ASCE	7-10; Vult=130mp	oh (3-seo	cond gust)						
TOP CHORD	2x4 SP No.2 *Excep	ot* 3-4:2x4 SP No.1			ph; TCDL=6.0psf;								
BOT CHORD	2x4 SP No.2 *Excep	ot* 15-2,5-9:2x4 SP No	.1		3; Enclosed; MWF								
WEBS	2x4 SP No.3 *Excep	ot* 12-3:2x4 SP No.2		zone and C-C Exterior (2) 0-1-12 to 3-1-12, Interior (1)									
BRACING				3-1-12 to 4-5-1, Exterior (2) 4-5-1 to 19-5-15, Interior (1) 19-5-15 to 22-3-0, Exterior (2) 22-3-0 to 25-3-0 zone;									
TOP CHORD	Structural wood she	athing directly applied	or										
		cept end verticals, and			t and right expose d;C-C for member								
	2-0-0 oc purlins (2-2				shown; Lumber D			.0					
BOT CHORD	Rigid ceiling directly	applied or 6-0-0 oc		DOL=1.60	onown, Eambor E	02-1.0	plate grip						
	bracing.	0.40	3)		7-10; Pr=20.0 ps	f (roof liv	e load: Lumb	ber					
WEBS	1 Row at midpt	3-12	- /		late DOL=1.15); P								
REACTIONS	()				=1.15 Plate DOL=	=1.15); Ċ	ategory II; Ex	кр B;					
	Max Horiz 16=-289 (Fully Exp.; C									
		.C 15), 16=-93 (LC 14)			snow loads have	been coi	nsidered for the	his					
	·	LC 40), 16=1091 (LC 4	'	design.		_							
FORCES	(lb) - Maximum Com	pression/Maximum	5)		is been designed								
TOP CHORD	Tension 1-2=-939/155, 2-17=	1155/170			psf or 1.00 times f			st on					
IOF CHORD	17-18=-1141/184, 1		6)		on-concurrent with quate drainage to			~					
	19-20=-1016/196, 3				as been designed			y.					
	3-21=-654/248, 21-2		()		ad nonconcurrent			ade					11
	4-22=-654/248, 4-23		8)		has been designed							11''' CA	D'III
	23-24=-1138/182, 5	,	0)		n chord in all area			0001				TH UP	ROM
	5-25=-852/172, 6-25	5=-935/167, 6-7=0/63,			y 2-00-00 wide w			om			1	ON VESS	i Ani
	1-16=-1164/153, 6-8				y other members						in	in	Nin
BOT CHORD	15-16=-263/270, 14		9)	One RT7A L	SP connectors re	commer	ded to conne	ect				:07	1.1
	2-14=-326/114, 13-1			truss to bear	ing walls due to U	PLIFT a	t jt(s) 16 and	8.		-	с <u>р</u>	. *	
	13-26=-113/710, 12	,			tion is for uplift onl	y and do	es not consid	der		=		SEA	L : E
	11-12=-67/900, 10-1			lateral forces						=	:	0363	• –
WEBS		=-332/87, 8-9=-57/75	10)		Irlin representation			size		1		0303	44 <u>;</u> ;
VVEDO	2-13=-381/262, 3-13 3-12=-125/124, 4-12			or the orienta	ation of the purlin a	along the	e top and/or				8		1 - E
		5=-103/837, 6-9=-67/8	45								1	· · · ·	Airs
NOTES			- LO	AD CASE(S)	Standard					THE PARTY OF THE P	25	S. GIN	EFICAN
	ad roof live loads have	been considered for									11	10	BEN
,	 Unbalanced roof live loads have been considered for this design. 											11, A. G	ILLIN
uns desigi												in A. C	mm
												March	15 2021

Scale = 1:68.4

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type Qty Ply 89 Lake Forest-Roof-BB-2086		89 Lake Forest-Roof-BB-2086		
21030024-A	D05	Нір	1	1	Job Reference (optional)	E15498459

Scale = 1:75.7

Run: 8.43 S Mar 4 2021 Print: 8.430 S Mar 4 2021 MiTek Industries, Inc. Mon Mar 15 12:35:49 ID:Nr44rnzyzjKDhUoHG5ZIi9zan26-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

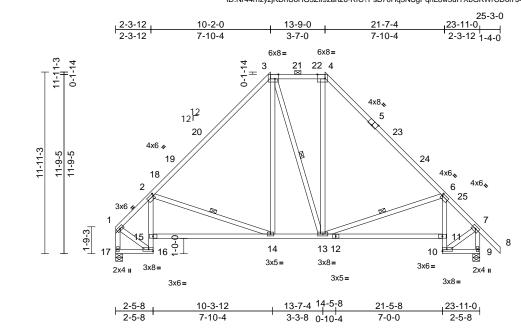


Plate Offsets (X, Y):			

Loading	(psf)		2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	1 1	1.15		TC	0.96	Vert(LL)		14-15		240	MT20	244/190
Snow (Pf)	20.0		1.15		BC	0.67	Vert(CT)		14-15	>943	180		
TCDL	10.0		YES		WB	0.37	Horz(CT)	0.20	9	n/a	n/a		
BCLL	0.0*	Code	IRC201	5/TPI2014	Matrix-MSH								
BCDL	10.0											Weight: 179 lb	FT = 20%
LUMBER			1)	Unbalanced	roof live loads have	ve been	considered fo	or					
TOP CHORD	2x4 SP No.1 *Excep			this design.									
BOT CHORD	2x4 SP No.2 *Excep 2400F 2.0E	ot* 16-2,6-10:2x4 SP	2)		7-10; Vult=130m ph; TCDL=6.0psf;								
WEBS	2x4 SP No.3 *Excep No.2	ot* 14-3,13-3,13-4:2x4	SP		B; Enclosed; MWF C Exterior (2) 0-1								
BRACING	110.2				11-1, Exterior (2) 5								
TOP CHORD	Structural wood she	athing directly applied.		(1) 17-11-15	to 22-3-0, Exterio	or (2) 22-	3-0 to 25-3-0						
		, and 2-0-0 oc purlins			ever left and right e			left					
	(6-0-0 max.): 3-4.	,			posed;C-C for me								
BOT CHORD	Rigid ceiling directly	applied or 6-0-0 oc			reactions shown;	Lumber	DOL=1.60 pla	ate					
	bracing.		2)	grip DOL=1.		f (reaf lin	ماموما بابسما						
NEBS	1 Row at midpt	2-14, 3-13, 6-13	3)		E 7-10; Pr=20.0 ps Plate DOL=1.15); F								
REACTIONS	(size) 9=0-5-8, *	17=0-5-8			L=1.15 Plate DOL:								
	Max Horiz 17=-320 ((LC 10)		Fully Exp.; 0		=1.10), C		хр D,					
	Max Uplift 9=-110 (L	.C 15), 17=-80 (LC 14)	4)		snow loads have	been co	nsidered for t	his					
	Max Grav 9=1228 (I	_C 40), 17=1133 (LC 4	0) ′	design.									
FORCES	(lb) - Maximum Corr	pression/Maximum	5)	This truss h	as been designed	for great	er of min root	f live					
	Tension			load of 12.0	psf or 1.00 times	flat roof l	oad of 20.0 p	sf on					
TOP CHORD	1-2=-979/142, 2-18=				on-concurrent wit								
	18-19=-1148/162, 1		6)		quate drainage to			g.				minin	1111
	3-20=-920/222, 3-21		7)		as been designed							IN'TH CA	ROUL
	21-22=-657/257, 4-2				ad nonconcurrent						1	A	Uller.
	4-5=-903/222, 5-23=		8)		has been designe			0psf			<u>.</u>	O`.:ES8	A Vil
	23-24=-978/186, 6-2	,			m chord in all area					4			and a
	1-17=-1203/137, 7-9	5=-957/154, 7-8=0/63,			by 2-00-00 wide w		veen the bott	om				:2	K : 3
BOT CHORD	16-17=-296/303, 15		0		ny other members							054	
	2-15=-344/137, 14-1		9)		JSP connectors re							SEA	L :
	13-14=-80/679, 12-1				ring walls due to U tion is for uplift on							0363	22 :
	11-12=-105/1008, 1	,		lateral force		iy anu ut		Jei		-			: .
	6-11=-349/117, 9-10		1(Jrlin representation	n does n	ot depict the	size			-		1.1.2
WEBS	2-14=-528/356, 3-14				ation of the purlin			0.20		CONTRACT OF CONTRACT	2.1	N. ENG	CRIL S
	3-13=-162/161, 4-13	,		bottom chor							30	A, GIN	EF AN
	6-13=-446/323, 1-16	6=-124/900, 7-10=-97/9	906	DAD CASE(S)							1	C	IL BE IN
NOTES			-		Clandara							A. G	ILLIN
												100000	nn.
												Marah	15 2021

March 15,2021



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	PB09	Piggyback	1	1	Job Reference (optional)	E15498460

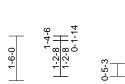
Run: 8,43 S Mar 4 2021 Print: 8,430 S Mar 4 2021 MiTek Industries, Inc. Mon Mar 15 12:36:09 ID:JOWbE_CKQIaGCcYOI33taVzanna-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

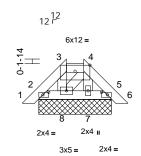
2-11-15

1-6-3 2-1 2-5-6

9 0-7-0 0-6-9 0-11-3 0-11-3

Page: 1







Scale = 1:38.9

Plate Offsets (X, Y): [2:0-2-6,0-1-0], [3:0-6-0,0-2-7], [5:0-2-6,0-1-0]

	5 (A, T). [2.0-2-0,0-1-0],	, [3.0-6-0,0-2-7], [3.0-2	2-6,0-1-0]									
Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2015/TPI2014	CSI TC BC WB Matrix-MP	0.02 0.01 0.01	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 5	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 14 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORI BOT CHORI WEBS BRACING TOP CHORI BOT CHORI REACTIONS FORCES TOP CHORI BOT CHORI WEBS NOTES	 D 2x4 SP No.2 2x4 SP No.3 D Structural wood she 3-7-0 oc purlins; ext 2-0-0 oc purlins; 3-4 D Rigid ceiling directly bracing. S (size) 2=2-5-6, 5 8=2-5-6, 5 Max Horiz 2=-30 (LC (LC 11), 5 15) Max Grav 2=97 (LC (LC 37), 8 37), 12=1 (lb) - Maximum Com Tension D 1-2=0/25, 2-3=-31/2 4-5=-39/28, 5-6=0/2 	2 applied or 10-0-0 oc 5=2-5-6, 7=2-5-6, 9=2-5-6, 12=2-5-6 2 12), 9=-30 (LC 12) 2 14), 5=-19 (LC 15), 8 9=-13 (LC 14), 12=-19 37), 5=103 (LC 37), 7 3=71 (LC 37), 9=97 (L 03 (LC 37) 10 10 10 10 10 10 10 10 10 10	 DOL=1. Lumber Fully Ex 4) Unbalan design. 5) This trus load of 1 overhan 6) Provide 7) Gable re 8) This trus chord liv 9) * This trus chord liv 3=-5 (LC 9) * This trus on the b 3-06-00 chord ar 7) Gne RT truss to l 7) See Stan Detail fo consult 12) Graphica 	ndard Industry Piggyt Connection to base Jualified building desi al purlin representation ientation of the purlin	Pf=20.0 p =1.15); C been cool for great flat roof I th other li prevent ttom choo for a 10. with any ed for a liv as where vill fit betw s. ecommer JPLIFT a JPLIFT a lyPLIFT a lyPLIFT a sagner. n does n	es (flat roof s category II; E: nsidered for t er of min roo oad of 20.0 p ve loads. water pondin rd bearing. 0 psf bottom other live loa ve load of 20.0 0 psf bottom other live loa ve load of 20.0 a rectangle ween the bott nded to conne t jt(s) 2, 5, an pes not consis as Connectior applicable, or ot depict the	now: xp B; f live osf on g. ads. 0psf tom ect ad 8. der n r		<u> </u>		RTH CA	ROLIN
this desi 2) Wind: AS Vasd=10 Cat. II; E zone and exposed member	ced roof live loads have gn. SCE 7-10; Vult=130mph J3mph; TCDL=6.0psf; B Exp B; Enclosed; MWFR d C-C Exterior (2) zone; I; end vertical left and ri s and forces & MWFRS DOL=1.60 plate grip DC	(3-second gust) CDL=6.0psf; h=25ft; S (envelope) exterior cantilever left and rigf ght exposed;C-C for for reactions shown;		i (S) Standard						A A A A A A A A A A A A A A A A A A A	SEA 0363	• -

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



GI minim

Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	D01	Hip Girder	1	1	Job Reference (optional)	E15498461

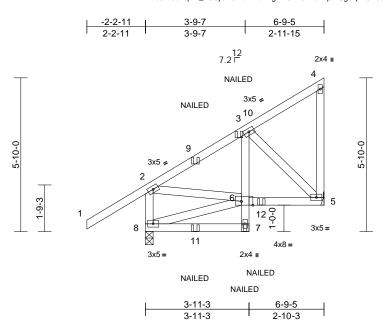
21030024-A	DUI	rip Gildei	1	' J	ob Reference (optional)		
Carter Compone	nts, Chesapeake, VA - 23323,				21 MiTek Industries, Inc. Mo 0Hq3NSgPqnL8w3uITXbG		Page: 1
	E-LL-C E-	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	12 5-3 0 NAILED NAILED NAIL 3x8= 25 5 26 2 25 5 26 2 10 10 10 10 10 33 17 34 3 2x4 II	B-8 LED NAILED NAILED 3x5= 7 28 6 29 7 2	NAILED NAILED Sx10= 3031 3031 7 3031 7 3031 7 3031 7 3031 7 3031 7 3031 7 3031 7 3031 7		10
	3	8x6= NAILED			4x6= NAILED		
		2x4 ။ 2-5-8					
	1-2-1 	4-0-4 9-3-			<u>19-10-12</u> 5-3-8 <u>1-6-1</u>	8 23-11-0 2 2-5-8	
Scale = 1:58.4	121	1-2-12					
Plate Offsets (X	X, Y): [2:0-2-15,0-2-0], [4:0-7-9,0-2-8], [7:0-7-9,0-2-8], [9:0-3-7,0-1	-8], [13:0-5-8,0-1-12], [19:	0-5-12,0-3-8]			
Loading FCLL (roof) Snow (Pf) FCDL BCLL BCDL	(psf)Spacing20.0Plate Grip DO20.0Lumber DOL10.0Rep Stress In0.0*Code10.0Rep Stress In	1.15 cr NO IRC2015/TPI2014	CSI TC 0.67 BC 0.75 WB 0.57 Matrix-MSH	Vert(CT) -0.21 Horz(CT) 0.12	15-17 >999 240 15-17 >999 180	Weight: 173 lb FT	4/190 = 20%
	Max Horiz 22=-191 (LC 10) Max Uplift 11=-724 (LC 13), 22=-72: Max Grav 11=1882 (LC 35), 22=186 (lb) - Maximum Compression/Maxim Tension 1-2=0/105, 2-3=-2047/879, 3-4=-203 4-23=-1468/681, 23-24=-1468/681, 24-25=-1468/681, 5-25=-1470/681, 5-26=-2611/1145, 6-28=-2611/114 6-29=-1445/672, 29-30=-1444/672,	4 SP pplied or icals, and 5 oc 4 (LC 12) 32 (LC 35) 10 Unbalanced this design. 2) Wind: ASCE Vasd=103m; Cat. II; Exp E DOL=1.60 3) TCLL: ASCE DOL=1.15 P Lumber DOL 5, 5) This truss ha load of 12.0	5-18=-1532/709, 5-17=-1: 5-15=-50/51, 6-15=-170/4 6-14=-1534/708, 7-14=-4: 8-14=-171/325, 2-19=-60; 19-21=-177/157, 2-21=-9' 9-13=-520/1356, 11-13=-5 roof live loads have been 7-10; Vult=130mph (3-se b); TCDL=6.0psf; BCDL= 3; Enclosed; MWFRS (env ver left and right exposed bosed; Lumber DOL=1.60 E 7-10; Pr=20.0 psf (roof li late DOL=1.15); Pf=20.0 p =1.15 Plate DOL=1.15); 0 t=1.10 snow loads have been cc as been designed for grea psf or 1.00 times flat roof on-concurrent with other l	99, 30/1043, 5/1420, 1/130, 11/35 considered for cond gust) 6.0psf; h=25ft; velope) exterior ; end vertical left plate grip ve load: Lumber psf (flat roof snow: Category II; Exp B; unsidered for this ter of min roof live load of 20.0 psf on	bottom chord. 11) "NAILED" indicate (0.148"x3.25") toe 12) In the LOAD CASS of the truss are no LOAD CASE(S) Sta 1) Dead + Snow (b Increase=1.15 Uniform Loads (I Vert: 1-2=-60, 20-22=-20, 13 Concentrated LC Vert: 4=-59 (B) 24=-59 (B), 25 28=-59 (B), 25	-nails per NDS guidlin E(S) section, loads ap ted as front (F) or bac ndard alanced): Lumber Incre b/ft) 2-4=-60, 4-7=-60, 7-9: -19=-20, 11-12=-20 ads (Ib)), 7=-59 (B), 18=-108 (j=-59 (B), 30=-59 (B), j 44=-108 (B), 35=-108 (3-12d es. plied to the face k (B). ease=1.15, Plate =-60, 9-10=-60, (B), 14=-108 (B), 27=-59 (B), 32=-108 (B),
OT CHORD	30-31=-1444/672, 7-31=-1443/672, 7-8=-2006/892, 8-9=-1933/800, 9-1(2-22=-1845/717, 9-11=-1826/729 21-22=-164/171, 20-21=-29/66, 19-2 3-19=-241/174, 18-19=-694/1505, 18-32=-1166/2657, 32-33=-1166/26 17-33=-1166/2657, 17-34=-1166/26 34-35=-1166/2657, 16-35=-1166/26 15-37=-1139/2629, 37-38=-1139/26 14-38=-1139/2629, 13-14=-521/134 12-13=0/43, 8-13=-270/126, 11-12=	0=0/105, 6) Provide adec 7) This truss ha chord live loc 8) * This truss h chord live loc 8) * This truss h 57, 3-06-00 tall b 57, chord and ar 57, 9) One RT8A U 29, This connect 7, lateral forces	quate drainage to prevent is been designed for a 10 ad nonconcurrent with any has been designed for a li in chord in all areas where by 2-00-00 wide will fit bet by other members. ISP connectors recommen- ing walls due to UPLIFT a tion is for uplift only and d	water ponding. .0 psf bottom y other live loads. ve load of 20.0psf e a rectangle ween the bottom nded to connect at jt(s) 22 and 11.	With the second s	SEAL 036322	2021



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	HJ02	Diagonal Hip Girder	2	1	Job Reference (optional)	E15498462

Run: 8.43 S Mar 4 2021 Print: 8.430 S Mar 4 2021 MiTek Industries, Inc. Mon Mar 15 12:36:00 ID:osW3b7spEf_4OSjGPsMu12zan?g-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:43.7

Plate Offsets (X, Y): [6:0-5-4,Edge]

- 1010 0110010 (, i). [0.0 0 4,⊑uge]	-											
Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC201	5/TPI2014	CSI TC BC WB Matrix-MP	0.47 0.18 0.10	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.03 -0.03 0.00	(loc) 7-8 7-8 5	l/defl >999 >999 n/a	L/d 240 180 n/a		GRIP 244/190 FT = 20%
FORCES TOP CHORD BOT CHORD WEBS NOTES 1) Wind: ASC Vasd=103 Cat. II; Ex zone; cant and right e DOL=1.60 2) TCLL: ASC DOL=1.15 Lumber D Fully Exp.	2x4 SP No.2 *Excep 2x4 SP No.3 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. (size) 5= Mecha Max Horiz 8=210 (LC Max Uplift 5=-253 (L Max Grav 5=253 (LC (lb) - Maximum Com (lb) - Maximum Com 2-8=-410/226, 1-2=0 3-9=-274/197, 3-10= 4-5=-114/47 8-11=-6/6, 7-11=-6/6 3-6=-237/212, 6-12= 6-8=-204/128, 2-6=- CE 7-10; Vult=130mph mph; TCDL=6.0psf; Bi p B; Enclosed; MWFR tilever left and right exp exposed; Lumber DOL- CE 7-10; Pr=20.0 psf (Plate DOL=1.15); Pf= OL=1.15 Plate DOL=1	athing directly applied cept end verticals. applied or 10-0-0 oc unical, 8=0-3-8 C 9) C 9), 8=-234 (LC 12) C 22), 8=465 (LC 23) upression/Maximum 0/73, 2-9=-335/197, i=102/47, 4-10=-94/6 S, 6-7=-79/85, i=262/265, 5-12=-257 160/270, 3-5=-339/3 (3-second gust) CDL=6.0psf; h=25ft; S (envelope) exterior posed ; end vertical le =1.60 plate grip roof live load: Lumbe :20.0 psf (flat roof sno .15); Category II; Exp	7) 8) 9) 1, 10 //261 10 10 1) eft sow: > B;	load of 12.0 overhangs n This truss ha chord live lo. * This truss lo on the botton 3-06-00 tall 11 chord and al Refer to gird Provide meet bearing plate joint 5. One RT7A L truss to bear connection is forces. 0) "NAILED" in (0.148"x3.25) In the LOAD of the truss a DAD CASE(S) Dead + Sm. Increase=1 Uniform Lo Vert: 1-2 Concentrat	ow (balanced): Lui .15	lat roof I o other Ii for a 10. with any d for a Ii's swhere ill fit betv. uss conn n (by oth commer PLIFT a d does n 48"x3") (c) DS guidli , loads a (F) or ba mber Inc	bad of 20.0 p ve loads. O psf bottom other live load of 20. a rectangle veen the bott nections. ers) of truss 253 lb uplift a ided to connet t jt(s) 8. This to consider la or 2-12d nes. pplied to the ck (B). rease=1.15, 6=-20	ads. Opsf com to t ect ateral face				SEA 0363	EER A

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

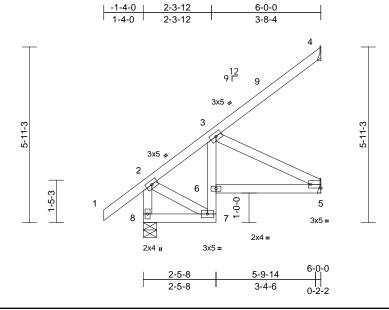


Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	EJ01	Jack-Open	9	1	Job Reference (optional)	E15498463

Run: 8,43 S Mar 4 2021 Print: 8,430 S Mar 4 2021 MiTek Industries, Inc. Mon Mar 15 12:35:52 ID:ltoNQh62kc5KtRgFViEHF_zan_2-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:38.9

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

	(X, 1): [5:Edge;6 1 6]												
Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2015/	TPI2014	CSI TC BC WB Matrix-MP	0.23 0.60 0.12	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.02 -0.03 0.03	(loc) 7 5-6 5	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 37 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORE BOT CHORE WEBS BRACING TOP CHORE BOT CHORE REACTIONS	 2x4 SP No.2 *Excep 2x4 SP No.3 Structural wood she 6-0-0 oc purlins, existence Rigid ceiling directly bracing. 	athing directly applie cept end verticals. applied or 6-0-0 oc unical, 5= Mechanica C 14) C 14), 5=-59 (LC 14) C 21), 5=144 (LC 24	5) ed or 6) al, 7) 8)	load of 12.0 overhangs n This truss ha chord live loa * This truss h on the bottor 3-06-00 tall h chord and ar Refer to gird Provide mec bearing plate	is been designed psf or 1.00 times i on-concurrent with is been designed ad nonconcurrent nas been designe n chord in all area y 2-00-00 wide w ny other members er(s) for truss to th hanical connectio e capable of withs ipplift at joint 5. Standard	flat roof li h other li for a 10.1 with any d for a liv as where vill fit betw russ conr n (by oth	bad of 20.0 p ve loads. D psf bottom other live loa e load of 20. a rectangle ween the bott nections. ers) of truss	sf on ads. Opsf om to					
FORCES	(lb) - Maximum Com Tension	pression/Maximum											
TOP CHORD													
BOT CHORD	,											TH CA	un.
WEBS	2-7=0/175, 3-5=-331	/211										WH CA	ROUL
NOTES											- N	R	- City
Vasd=10 Cat. II; E zone and exposed members	SCE 7-10; Vult=130mph 3mph; TCDL=6.0psf; B xp B; Enclosed; MWFR; d C-C Exterior (2) zone; ; end vertical left and rig s and forces & MWFRS DOL=1.60 plate grip DO	CDL=6.0psf; h=25ft; S (envelope) exterio cantilever left and ri ght exposed;C-C for for reactions shown	r ght							An and a second	È	PFES	L
2) TCLL: AS DOL=1.1 Lumber I Fully Exp	SCE 7-10; Pr=20.0 psf (5 Plate DOL=1.15); Pf= DOL=1.15 Plate DOL=1 b.; Ct=1.10 ced snow loads have be	roof live load: Lumb 20.0 psf (flat roof sn .15); Category II; Ex	iow: p B;							1111			EEREX

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

A. GIL March 15,2021

818 Soundside Road Edenton, NC 27932

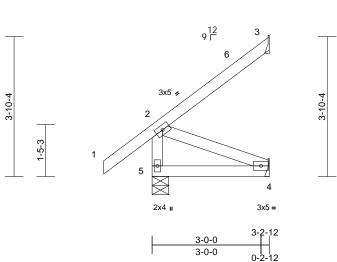
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	CJ10	Jack-Open	2	1	Job Reference (optional)	E15498464

Run: 8.43 S Mar 4 2021 Print: 8.430 S Mar 4 2021 MiTek Industries, Inc. Mon Mar 15 12:35:42 ID:ObTeCTEmV5Xwk9F4DP24DCzan6w-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







Scale = 1:31.8

Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2015/TPI2014	CSI TC BC WB Matrix-MP	0.18 0.11 0.06	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.01 -0.01 0.00	(loc) 4-5 4-5 3	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 20 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.3 Structural wood she 3-2-12 oc purlins, e Rigid ceiling directly bracing. (size) 3= Mecha 5=0-5-8 Max Horiz 5=108 (LC Max Uplift 3=-59 (LC Max Grav 3=78 (LC	xcept end verticals. applied or 10-0-0 oc anical, 4= Mechanica C 14) C 14), 4=-27 (LC 14)	chord live 6) * This truss on the bott 3-06-00 ta chord and 7) Refer to gi 8) Provide mu bearing pla 1, LOAD CASE(has been designed oad nonconcurrent is has been designer om chord in all area by 2-00-00 wide w any other members ider(s) for truss to tr echanical connectio te capable of withs uplift at joint 4.	with any d for a liv as where vill fit betv s. russ conr n (by oth	other live loa e load of 20.1 a rectangle veen the bott nections. ers) of truss	Opsf com to					
FORCES TOP CHORD BOT CHORD WEBS	(LC 21) (lb) - Maximum Com Tension 2-5=-202/40, 1-2=0/ 3-6=-41/67 4-5=-189/67 2-4=-72/203											
NOTES 1) Wind: AS(Vasd=103) Cat. II; Ex zone and exposed; members Lumber D 2) TCLL: AS DOL=1.15 Lumber D Fully Exp. 3) Unbalance design. 4) This truss load of 12	CE 7-10; Vult=130mph mph; TCDL=6.0psf; B p B; Enclosed; MWFR C-C Exterior (2) zone; end vertical left and ri, and forces & MWFRS OL=1.60 plate grip DC CE 7-10; Pr=20.0 psf (5 Plate DOL=1.15); Pf= OL=1.15 Plate DOL=1	CDL=6.0psf; h=25ft; S (envelope) exterior cantilever left and rig ght exposed;C-C for for reactions shown; Ju=1.60 roof live load: Lumbe 20.0 psf (flat roof sm. .15); Category II; Exp een considered for th r greater of min roof I t roof load of 20.0 ps	ght ow: o B; is						M. Contraction		SEA 0363	22 EER & Jun

ENGINEERING BY EREENCED A MITEk Atfiliate 818 Soundside Road Edenton, NC 27932

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

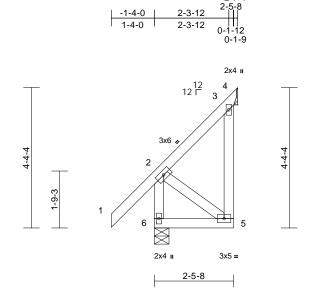
Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	CJ09	Jack-Open	2	1	Job Reference (optional)	E15498465

Run: 8.43 S Mar 4 2021 Print: 8.430 S Mar 4 2021 MiTek Industries, Inc. Mon Mar 15 12:35:42 ID:1egm9mBdhYuddNM7QsSvW8zan7?-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

2-7-1

Page: 1

i7J4zJC?f



Scale = 1:35.7

-													
Loading	(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15		TC	0.21	Vert(LL)	-0.01	5	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15		BC	0.05	Vert(CT)	-0.01	5	>999	180		
TCDL	10.0	Rep Stress Incr	YES		WB	0.08	Horz(CT)	0.01	4	n/a	n/a		
BCLL	0.0*	Code	IRC201	5/TPI2014	Matrix-MP								
BCDL	10.0	-										Weight: 23 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.2 *Excep 2x4 SP No.3 Structural wood she 2-7-1 oc purlins, ex Rigid ceiling directly bracing.	athing directly applie cept end verticals.	;	on the bottor 3-06-00 tall to chord and ar Refer to gird Provide mec	has been designed in chord in all areas by 2-00-00 wide wil by other members. er(s) for truss to tru- hanical connection e capable of withstar Standard	s where Il fit betv uss conr (by oth	a rectangle veen the bott nections. ers) of truss	om to					
REACTIONS	(size) 4= Mecha Max Horiz 6=120 (LC Max Uplift 4=-127 (L Max Grav 4=108 (LC	C 14)	1										
FORCES	(lb) - Maximum Corr Tension	pression/Maximum											
TOP CHORD	2-6=-190/46, 1-2=0/ 3-4=-123/129	63, 2-3=-71/73,											
BOT CHORD WEBS	5-6=-224/67, 3-5=-1 2-5=-85/281	51/71											
NOTES													
1) Wind: ASC	CE 7-10; Vult=130mph	(3-second gust)											
	mph; TCDL=6.0psf; B												UIII.
Cat. II; Exp	p B; Enclosed; MWFR	S (envelope) exterio	r									IN CA	DUL

- Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 2) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber
- TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

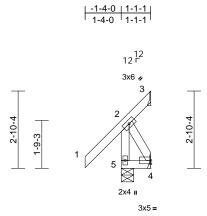
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601 SEAL 036322 March 15,2021



Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	CJ08	Jack-Open	2	1	Job Reference (optional)	E15498466

Run: 8.43 S Mar 4 2021 Print: 8.430 S Mar 4 2021 MiTek Industries, Inc. Mon Mar 15 12:35:42 ID:1M8KbyzzhKI15mZsxoewKZzan7G-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Loading		(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)		20.0	Plate Grip DOL	1.15		тс	0.20	Vert(LL)	0.00	5	>999	240	MT20	244/190
Snow (Pf)		20.0	Lumber DOL	1.15		BC	0.01	Vert(CT)	0.00	5	>999	180		
CDL		10.0	Rep Stress Incr	YES		WB	0.06	Horz(CT)	0.00	3	n/a	n/a		
BCLL		0.0*	Code	IRC201	15/TPI2014	Matrix-MP								
SCDL	-	10.0											Weight: 12 lb	FT = 20%
UMBER OP CHORD	2x4 SP No	0.2		5		s been designed ad nonconcurrent			ds.					
OT CHORD				6		as been designe			psf					
/EBS	2x4 SP No	.3				n chord in all area		0						
RACING						y 2-00-00 wide w		veen the botto	m					
OP CHORD			athing directly applie	d or 7		<pre>iy other members er(s) for truss to to</pre>		ections						
		,	cept end verticals.	0		hanical connectio			C					
OT CHORD	bracing.	ng directly	applied or 10-0-0 oc		bearing plate	capable of withs								
EACTIONS	(size)	3= Mecha 5=0-5-8	nical, 4= Mechanica	l, 9		plift at joint 3. SP connectors re	commen	ded to conne	ct					
	Max Horiz		13)			ing walls due to L								
			20), 4=-110 (LC 14),	connection is forces.	for uplift only an	d does n	ot consider lat	eral					
	•	5=-1 (LC 1	10)	· .	OAD CASE(S)	Standard								
		3=38 (LC (LC 1)	18), 4=63 (LC 12), 5	=197	OAD CASE(S)	Stanuaru								
ORCES	Tension		pression/Maximum											
OP CHORD			63, 2-3=-70/68											
SOT CHORD														
VEBS	2-4=-63/19	94												
IOTES		-120mph	(3-second gust)										, united	11111
Vasd=103 Cat. II; Ex	Bmph; TCDL= p B; Enclose	=6.0psf; B0 d; MWFR8	CDL=6.0psf; h=25ft; S (envelope) exterior cantilever left and rig									A	ORTH CA	ROW
			ght exposed;C-C for								4	D		1 Sille
			for reactions shown;								-			
	OL=1.60 pla	•	roof live load: Lumbe								=	:	SEA	L :
			20.0 psf (flat roof sn										0363	22
			.15); Category II; Ex								-			
Fully Exp.	; Ct=1.10											-	1. A.	- 1 - E
	ed snow load	ls have be	en considered for th	is								2.0	NOIN	FERIX
design.	haa haar da	aigned for	arootor of min roof	i. co							COLUMN	11	AU	F. F. M.
			greater of min roof troof load of 20.0 ps										11. A. C.	ILBUTT
			other live loads.										A. C	11111
5														n 15,2021

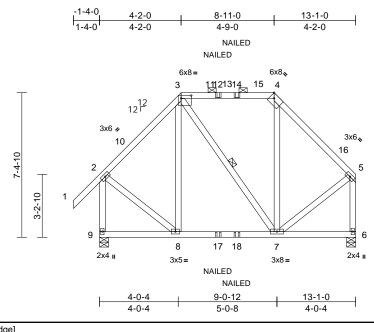
818 Soundside Road Edenton, NC 27932

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	K01	Hip Girder	1	1	Job Reference (optional)	E15498467

Run: 8,43 S Mar 4 2021 Print: 8,430 S Mar 4 2021 MiTek Industries. Inc. Mon Mar 15 12:36:03 ID:wZFZdVU7sxW2aXnDeCbchkzanKp-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:58.9	
Plate Offsets (X Y):	[3:0-6-4 0-1-12] [4:0-2-8 Edge]

Plate Offsets (X, Y): [3:0-6-4,0-1-12], [4:0-2-8,Edge]			-							-	
Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC201	5/TPI2014	CSI TC BC WB Matrix-MSH	0.77 0.45 0.17	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.06 -0.07 0.00	(loc) 7-8 7-8 6	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 102 lb	GRIP 244/190 FT = 20%
	2x4 SP No.3 Structural wood she 6-0-0 oc purlins, ex 2-0-0 oc purlins (6-0 Rigid ceiling directly bracing. 1 Row at midpt	athing directly applie cept end verticals, ar -0 max.): 3-4. applied or 6-0-0 oc 3-7 9=0-5-8 2 9) C 13), 9=-252 (LC 1: C 35), 9=959 (LC 35)	4) ed or 5) nd 5) 6) 7) 8) 2)	DOL=1.15 P Lumber DOL Fully Exp.; C Unbalanced design. This truss ha load of 12.0 overhangs n Provide aded This truss ha chord live loa * This truss to on the bottor 3-06-00 tall b chord and ar	snow loads have loss been designed to psf or 1.00 times for on-concurrent with quate drainage to us been designed to ad nonconcurrent has been designed n chord in all area by 2-00-00 wide w y other members.	If=20.0 p =1.15); C been con- for great lat roof I n other li prevent for a 10. with any d for a li d for a li s where ill fit betty, with BC	sf (flat roof s ategory II; E nsidered for t er of min roo bad of 20.0 p ve loads. water pondin 0 psf bottom other live loa e load of 20. a rectangle veen the bott CDL = 10.0ps	now: xp B; f live f live ssf on g. ads. 0psf tom					
TOP CHORD BOT CHORD WEBS NOTES	Tension 1-2=0/105, 2-10=-62 3-11=-372/234, 11-1 12-13=-372/234, 13-1 14-15=-372/234, 4-1 4-16=-503/244, 5-16 2-9=-936/283, 5-6=- 8-9=-223/188, 8-17= 17-18=-228/430, 7-1 3-8=-105/111, 3-7=- 2-8=-193/498, 5-7=- ed roof live loads have	23/226, 3-10=-507/24 2=-372/234, 5=-372/234, 5=-609/217, 769/261 228/430, 8=-228/430, 6-7=-50 89/96, 4-7=-118/109 204/466	10 11 0/31 12 , LC 1)	truss to bear This connect lateral forces 0) Graphical pu or the orient bottom choro 1) "NAILED" int (0.148"x3.25 2) In the LOAD of the truss a DAD CASE(S) Dead + Sno	rlin representation ation of the purlin a dicates 3-10d (0.1- ") toe-nails per NE CASE(S) section, are noted as front Standard ow (balanced): Lui	PLIFT a y and do n does no along the 48"x3") o OS guidli loads a (F) or ba	t jt(s) 9 and 6 bes not consider t depict the e top and/or or 3-12d nes. pplied to the ck (B).	5. der size face		<u> </u>		OR TH CA	
this design 2) Wind: ASC Vasd=103 Cat. II; Exp zone; cant	n. CE 7-10; Vult=130mph imph; TCDL=6.0psf; Bi p B; Enclosed; MWFR tilever left and right exp exposed; Lumber DOL	(3-second gust) CDL=6.0psf; h=25ft; S (envelope) exterior bosed ; end vertical I	r	Concentrate						THWA.	A A A A A A A A A A A A A A A A A A A	in the second se	EREALIN

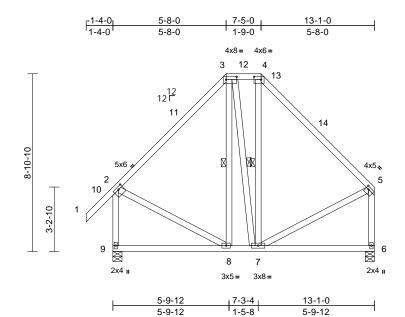
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	K02	Hip	1	1	Job Reference (optional)	E15498468

Run: 8.43 S Mar 4 2021 Print: 8.430 S Mar 4 2021 MiTek Industries, Inc. Mon Mar 15 12:36:03 ID:R4DEG?IVNdnffme534Nz1UzanoA-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:57.6

Plate Offsets (X, Y): [2:0-2-12,0-1-8], [3:0-6-4,0-1-12], [4:0-4-4,0-1-12], [5:0-1-12,0-1-8]

			,		-								
Loading TCLL (roof)	(psf) 20.0	Spacing Plate Grip DOL	2-0-0 1.15		CSI TC	0.74	DEFL Vert(LL)	in -0.03	(loc) 8-9	l/defl >999	L/d 240	PLATES MT20	GRIP 244/190
Snow (Pf)	20.0	Lumber DOL	1.15		BC	0.26	Vert(CT)	-0.06	8-9	>999	180		
TCDL	10.0	Rep Stress Incr	YES		WB	0.10	Horz(CT)	0.00	6	n/a	n/a		
BCLL	0.0*	Code	IRC201	5/TPI2014	Matrix-MSH								FT 000/
BCDL	10.0											Weight: 113 lb	FI = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SP No.2 2x4 SP No.3 Structural wood shee 4-2-11 oc purlins, et 2-0-0 oc purlins (6-0 Rigid ceiling directly bracing. 1 Row at midpt	xcept end verticals, a -0 max.): 3-4. applied or 10-0-0 oc 3-8, 3-7, 4-7 9=0-5-8	and 5)	DOL=1.15 P Lumber DOU Fully Exp.; C Unbalanced design. This truss ha load of 12.0 overhangs n Provide ade This truss ha chord live lo. * This truss l	snow loads have b as been designed for psf or 1.00 times fla on-concurrent with quate drainage to p as been designed for ad nonconcurrent w nas been designed	=20.0 p 1.15); C een cor or great at roof le other lin revent or a 10. <i>i</i> th any for a liv	sf (flat roof s ategory II; E: nsidered for t er of min roof bad of 20.0 p ve loads. water pondin 0 psf bottom other live loa e load of 20.	now: xp B; this f live osf on g. ads.					
	Max Uplift 6=-51 (LC Max Grav 6=703 (LC	(LC 14), 9=-60 (LC 14)		3-06-00 tall I	m chord in all areas by 2-00-00 wide will			tom					
FORCES	(lb) - Maximum Com Tension		9)	One RT7A L	ny other members. JSP connectors rec ing walls due to UP								
TOP CHORD BOT CHORD WEBS NOTES	3-11=-338/187, 3-12 4-12=-305/213, 4-13 13-14=-364/172, 5-1 2-9=-767/182, 5-6=-	2=-305/213, =-269/174, 4=-566/151, 647/137 98/294, 6-7=-47/55 0/151, 4-7=-96/135,		This connec lateral forces) Graphical pu	tion is for uplift only s. Irlin representation ation of the purlin al d.	and do	ot depict the	der		4	NI III	ORTEESS	ROUT
											2		

 Unbalanced roof live loads have been considered for this design.

2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 SEAL 036322 MGINEEPHHILIN March 15,2021

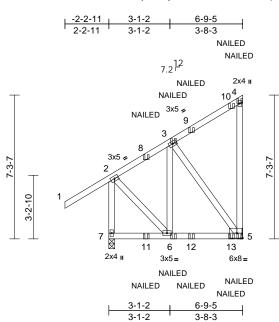
> 818 Soundside Road Edenton, NC 27932

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	HJ01	Diagonal Hip Girder	2	1	Job Reference (optional)	E15498469

Run: 8,43 S Mar 4 2021 Print: 8,430 S Mar 4 2021 MiTek Industries, Inc. Mon Mar 15 12:35:59 ID:vlk83hHStjNT1w_y88ncV8zanL4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:58.4

Scale = 1:58.4												
Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2015/TPI201	4 CSI TC BC WB Matrix-MP	0.64 0.25 0.26	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.02 -0.02 0.00	(loc) 6-7 6-7 5	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 61 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. (size) 5= Mecha Max Horiz 7=278 (LC Max Uplift 5=-720 (L Max Grav 5=780 (LC	applied or 10-0-0 or anical, 7=0-3-8 C 9) C 9), 7=-377 (LC 8) C 22), 7=640 (LC 23)	chord 6) * This on the 3-06-0 chord 7) Refer 7) Refer 8) Provid bearin joint 5. 9) One R truss tr conne forces	T7A USP connectors bearing walls due to ction is for uplift only a	nt with any ned for a liv eas where will fit betw rs. b truss con cion (by oth nstanding f recommer UPLIFT a and does n	other live load re load of 20. a rectangle ween the bott nections. ners) of truss 720 lb uplift a uded to conne t jt(s) 7. This ot consider la	Opsf tom t t t t t t t t t t t t t t t t				Weight. Of ho	11 - 2078
FORCES TOP CHORD		')/73, 2-8=-316/242, 166/126, 9-10=-113/	NDS g 11) In the	ED" indicates 2-12d (0 uidlines. _OAD CASE(S) sectio russ are noted as fror	on, loads a	pplied to the						
BOT CHORD	4-10=-131/125, 4-5= 7-11=-264/170, 6-11 6-12=-291/289, 12-1 5-13=-291/289	I=-264/170,	1) Dead Incre	SE(S) Standard + Snow (balanced): L ase=1.15	_umber Inc	rease=1.15,	Plate					
WEBS		287/308, 3-5=-395/3	07	rm Loads (lb/ft) rt: 1-2=-60, 2-4=-60, 5	5-7=-20							111.
NOTES				entrated Loads (lb)							TH CA	AD "'IL
Vasd=103r Cat. II; Exp zone; canti	CE 7-10; Vult=130mph mph; TCDL=6.0psf; B o B; Enclosed; MWFR ilever left and right ex exposed; Lumber DOL	CDL=6.0psf; h=25ft; S (envelope) exterio posed ; end vertical	11 r	rt: 4=-125 (F), 5=-38 (1 (B), 13=-19 (B)	(F), 8=39 (B), 10=-56 (B	3),		4	à	O FESS	
 TCLL: ASC DOL=1.15 Lumber DC Fully Exp.; Unbalance 	CE 7-10; Pr=20.0 psf (Plate DOL=1.15); Pf= OL=1.15 Plate DOL=1	20.0 psf (flat roof sn .15); Category II; Ex	ow: p B;								SEA 0363	• -
load of 12.	has been designed fo 0 psf or 1.00 times fla non-concurrent with o	t roof load of 20.0 ps								in.		HLBERTIN

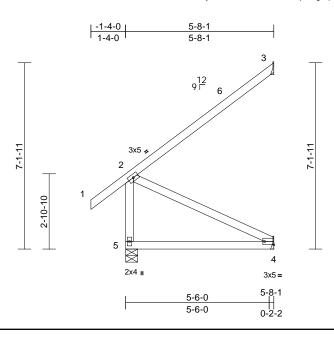
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	CJ05	Jack-Open	3	1	Job Reference (optional)	E15498470

Run: 8,43 S Mar 4 2021 Print: 8,430 S Mar 4 2021 MiTek Industries, Inc. Mon Mar 15 12:35:40 ID:Tf8cvS9ddSt44GGN1y962kzanP6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:44.1

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

	e (, i, i): [:i⊇age;e : e]												
Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2015/	TPI2014	CSI TC BC WB Matrix-MP	0.57 0.39 0.13	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.06 -0.11 -0.01	(loc) 4-5 4-5 3	l/defl >999 >592 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 34 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORI BOT CHORI WEBS BRACING TOP CHORI BOT CHORI REACTIONS	 D 2x4 SP No.2 2x4 SP No.3 D Structural wood she 5-8-1 oc purlins, existence D Rigid ceiling directly bracing. 	cept end verticals. applied or 10-0-0 or anical, 4= Mechanica C 11) C 14), 4=-52 (LC 14 C 21), 4=111 (LC 7),	5) ed or 6) c al, 7) 8)	load of 12.0 overhangs n This truss ha chord live loa * This truss f on the bottor 3-06-00 tall b chord and ar Refer to gird Provide mec bearing plate	s been designed f port of the second	lat roof lo n other liv for a 10.0 with any d for a liv s where ill fit betv uss conr n (by oth anding 1	bad of 20.0 p ve loads. D psf bottom other live loa e load of 20. a rectangle ween the bott nections. ers) of truss	ads. Opsf com to					
FORCES	(lb) - Maximum Com Tension	pression/Maximum											
TOP CHORE	D 2-5=-269/0, 1-2=0/5 3-6=-91/114	3, 2-6=-120/87,											
BOT CHORE WEBS	D 4-5=-294/154 2-4=-171/327												
NOTES 1) Wind: A3 Vasd=10 Cat. II; E zone and exposed member Lumber 2) TCLL: A DOL=1.7 Lumber Fully Exp	SCE 7-10; Vult=130mph 03mph; TCDL=6.0psf; Bi Exp B; Enclosed; MWFR: d C-C Exterior (2) zone; d; end vertical left and rig s and forces & MWFRS DOL=1.60 plate grip DO SCE 7-10; Pr=20.0 psf (15 Plate DOL=1.15); Pf= DOL=1.15 Plate DOL=1 p.; Ct=1.10 icced snow loads have be	CDL=6.0psf; h=25ft; S (envelope) exteric cantilever left and ri ght exposed;C-C for for reactions shown PL=1.60 roof live load: Lumb :20.0 psf (flat roof sr .15); Category II; Ex	r ght ; er iow: p B;							W. Children		SEA 0363	• –

- Lumber DOL=1.60 plate grip DOL=1.60 TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; 2) Fully Exp.; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.

818 Soundside Road Edenton, NC 27932

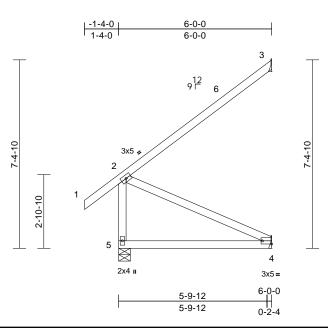
GI 11111111 March 15,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	EJ02	Jack-Open	2	1	Job Reference (optional)	E15498471

Run: 8,43 S Mar 4 2021 Print: 8,430 S Mar 4 2021 MiTek Industries. Inc. Mon Mar 15 12:35:52 ID:TSnM1ZFHuKqux6uV?phfh2zanrO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:45.2

Plate Offsets (X,	Y): [4:Edge,0-1-8]												
Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 20.0 10.0 0.0 * 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	5/TPI2014	CSI TC BC WB Matrix-MP	0.65 0.44 0.14	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.07 -0.14 -0.01	(loc) 4-5 4-5 3	l/defl >997 >499 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 36 lb	GRIP 244/190 FT = 20%
BOT CHORD 2 WEBS 2 BRACING TOP CHORD 5 BOT CHORD 7 REACTIONS (s	6-0-0 oc purlins, ex Rigid ceiling directly bracing. ize) 3= Mecha 5=0-5-8 lax Horiz 5=169 (LC lax Uplift 3=-133 (L	applied or 10-0-0 or inical, 4= Mechanica C 14) C 14), 4=-50 (LC 14 C 21), 4=117 (LC 7),	c II, 7) 8)	load of 12.0 overhangs n This truss ha chord live loa * This truss h on the bottor 3-06-00 tall t chord and ar Refer to gird Provide mec bearing plate	is been designed performation of the second on-concurrent with the been designed and nonconcurrent has been designed nor chord in all are by 2-00-00 wide v yo other members er(s) for truss to the hanical connective capable of withs 0 bl uplift at joint Standard	flat roof lo th other liv for a 10.0 t with any ed for a liv as where will fit betw s. truss conr on (by oth standing 1	bad of 20.0 p ve loads. D psf bottom other live loa e load of 20. a rectangle veen the bott nections. ers) of truss	ads. Opsf om to					
-	(lb) - Maximum Com Tension	pression/Maximum											
:	2-5=-279/0, 1-2=0/5 3-6=-97/120 4-5=-303/161	3, 2-0=-127/92,											
	2-4=-177/333											mm	Um.
Vasd=103mj Cat. II; Exp E zone and C exposed; er members an Lumber DOL 2) TCLL: ASCE DOL=1.15 P Lumber DOL Fully Exp.; C	3; Enclosed; MWFR C Exterior (2) zone; Id vertical left and rig d forces & MWFRS =1.60 plate grip DC 7-10; Pr=20.0 psf (late DDL=1.15); Pf= ==1.15 Plate DOL=1 t=1.10	CDL=6.0psf; h=25ft; S (envelope) exterio cantilever left and right exposed;C-C for for reactions shown	r ght ; er ow: p B;									SEA 0363	L

- exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60 TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15) Plate DOL=1.15); Category II; Exp B; 2)
- Fully Exp.; Ct=1.10 3)
- Unbalanced snow loads have been considered for this design.

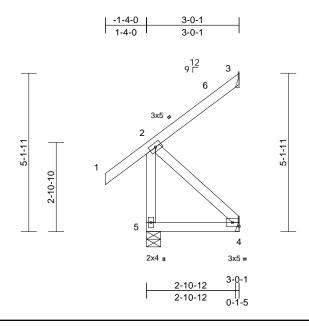
818 Soundside Road Edenton, NC 27932

GI mmm March 15,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086		
21030024-A	CJ04	Jack-Open	3	1	Job Reference (optional)	E15498472	

Run: 8.43 S Mar 4 2021 Print: 8.430 S Mar 4 2021 MiTek Industries, Inc. Mon Mar 15 12:35:40 ID:EkgUjqfzkMA67jTRVmvzlbzanOS-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:37.4

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

	(A, T). [4.Edge,0-1-8]												
Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2015/	/TPI2014	CSI TC BC WB Matrix-MP	0.16 0.09 0.09	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.00 -0.01 0.00	(loc) 4-5 4-5 3	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 22 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.3 Structural wood sheat 3-0-1 oc purlins, exa Rigid ceiling directly bracing. (size) 3= Mecha 5=0-5-8 Max Horiz 5=119 (LC Max Uplift 3=-52 (LC Max Grav 3=69 (LC	cept end verticals. applied or 10-0-0 or nical, 4= Mechanica C 11) : 14), 4=-76 (LC 14)	5) ed or 6) c II, 7) 8)	load of 12.0 overhangs n This truss ha chord live loa * This truss h on the bottor 3-06-00 tall h chord and ar Refer to gird Provide mec bearing plate	Is been designed opsf or 1.00 times for on-concurrent with s been designed ad nonconcurrent has been designed n chord in all area by 2-00-00 wide w by 2-00-00 wide w by other members er(s) for truss to tr hanical connection capable of withst uplift at joint 4. Standard	ilat roof le n other li for a 10.1 with any d for a liv as where ill fit betw russ conr n (by oth	bad of 20.0 p ve loads. D psf bottom other live load of 20. a rectangle veen the bott nections. ers) of truss	ads. Opsf com to					
FORCES	(LC 21) (lb) - Maximum Com	pression/Maximum											
TOP CHORD	Tension												
BOT CHORD													
WEBS NOTES	2-4=-120/288												in the second se
 Wind: AS(Vasd=103) Cat. II; Ex zone and exposed ; members Lumber D TCLL: AS DOL=1.15 Lumber D Fully Exp. 	CE 7-10; Vult=130mph 3mph; TCDL=6.0psf; B(p B; Enclosed; MWFR3 C-C Exterior (2) zone; end vertical left and rig and forces & MWFR3 OL=1.60 plate grip DO CE 7-10; Pr=20.0 psf (5 Plate DOL=1.15); Pf= OL=1.15 Plate DOL=1. ; Ct=1.10 ed snow loads have be	CDL=6.0psf; h=25ft; S (envelope) exterio cantilever left and right pht exposed;C-C for for reactions shown L=1.60 roof live load: Lumbi 20.0 psf (flat roof sn .15); Category II; Ex	r ght ; er ow: p B;							Marine .	A MARINE AND A MAR	SEA 0363	EER. A.

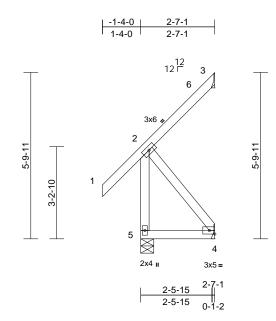
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss Truss Type Qty Ply 89 Lake Forest-Roof-BE		89 Lake Forest-Roof-BB-2086			
21030024-A	CJ02	Jack-Open	2	1	Job Reference (optional)	E15498473

Run: 8,43 S Mar 4 2021 Print: 8,430 S Mar 4 2021 MiTek Industries, Inc. Mon Mar 15 12:35:39 ID:mHbhygSh_qvgzy5_R_bl0ozanOk-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:40.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	0.00	4-5	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	0.00	4-5	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	-0.01	3	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 22 lb	FT = 20%
LUMBER			5) This true	ss has been designe	d for a 10.	0 psf bottom						
TOP CHORD	2x4 SP No.2		chord liv	e load nonconcurrer	nt with any	other live loa	ıds.					
BOT CHORD	2x4 SP No.2			uss has been design			0psf					
WEBS	2x4 SP No.3			ottom chord in all are								
BRACING				tall by 2-00-00 wide		ween the bott	om					
TOP CHORD		eathing directly appl		nd any other member								
		xcept end verticals.		girder(s) for truss to mechanical connect			to					
BOT CHORD	Rigid ceiling direct bracing.	y applied or 10-0-0 o		plate capable of with								
REACTIONS	0	anical, 4= Mechanic	al	34 lb uplift at joint 4.								
	5=0-5-8	,	LOAD CAS	E(S) Standard								
	Max Horiz 5=138 (I											
	Max Uplift 3=-53 (L											
	Max Grav 3=56 (L0),									
	5=212 (I	,										
FORCES		mpression/Maximum	1									
	Tension	0/62 2 6 70/65										
TOP CHORD	2-5=-201/119, 1-2= 3-6=-42/81	=0/63, 2-6=-70/65,										
BOT CHORD	4-5=-253/93											
WEBS	2-4=-148/401											
NOTES	2 1- 110/101											
	CE 7-10; Vult=130mp	h (2 cocond quet)										in the
	mph; TCDL=6.0psf; l		t.							13	IN TH CA	ROUL
	p B; Enclosed; MWF									15	R	De later
	C-C Exterior (2) zone									27		Pit
exposed ;	end vertical left and	right exposed;C-C fo	or						1		19 10	19.9.1
	and forces & MWFR		n;							2	: *	N : 1 -
	OL=1.60 plate grip D								-		SEA	AL E
	CE 7-10; Pr=20.0 psf								=			• –
	Plate DOL=1.15); P								=		0363	522 : :
	OL=1.15 Plate DOL=	1.15); Category II; E	xp B;							0		1
Fully Exp.;	; Ct=1.10 ed snow loads have b	oon oppoidored for t	thio							2	·	all S
design.	eu show loads have t		1115							25	A C A	EELO
0	has been designed f	or areater of min roo	f live							11	710	allin
	.0 psf or 1.00 times fl										A. C	ALPIN

4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.

A. GILUN March 15,2021

A. GILE



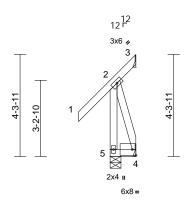
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Job	Truss	Truss Type		Ply	89 Lake Forest-Roof-BB-2086		
21030024-A	CJ03	Jack-Open	3	1	Job Reference (optional)	E15498474	

Run: 8.43 S Mar 4 2021 Print: 8.430 S Mar 4 2021 MiTek Industries, Inc. Mon Mar 15 12:35:39 ID:?0e4qIYKsb1OYLHjTNFsuizanOb-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1







Scale = 1:48.7											
Loading (psf) TCLL (roof) 20.0 Snow (Pf) 20.0 TCDL 10.0 BCLL 0.0* BCDL 10.0	Spacing2-0Plate Grip DOL1.11Lumber DOL1.11Rep Stress IncrYESCodeIRC	5	CSI TC BC WB Matrix-MP	0.20 0.01 0.19	DEFL Vert(LL) Vert(CT) Horz(CT)	in 0.00 0.00 -0.02	(loc) 5 5 3	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 16 lb	GRIP 244/190 FT = 20%
1-1-1 oc purlins, exe BOT CHORD Rigid ceiling directly bracing.	applied or 10-0-0 oc nical, 4= Mechanical, C 12) : 20), 4=-235 (LC 11), C 12) 18), 4=220 (LC 12),	 chord live loa * This truss h on the botton 3-06-00 tall b chord and an 7) Refer to girde 8) Provide mech bearing plate joint 4 and 61 9) One RT7A U truss to bearing 	s been designed for d nonconcurrent w as been designed n chord in all areas y 2-00-00 wide wil y other members. er(s) for truss to tru- nanical connection capable of withsta Ib uplift at joint 3. SP connectors rec ng walls due to UF for uplift only and Standard	vith any for a liv where I fit betw uss conr (by oth anding 2 commen PLIFT at	other live loa e load of 20.0 a rectangle veen the botto ections. ers) of truss t 35 lb uplift at ded to conne jt(s) 5. This	0psf om o ct					
 FORCES (Ib) - Maximum Com Tension TOP CHORD 2-5=-410/188, 1-2=0 BOT CHORD 4-5=-191/66 WEBS 2-4=-220/639 NOTES 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BC Cat. II; Exp B; Enclosed; MWFRS zone and C-C Exterior (2) zone; exposed ; end vertical left and rig members and forces & MWFRS Lumber DOL=1.60 plate grip DO 2) TCLL: ASCE 7-10; Pr=20.0 psf (I DOL=1.15 Plate DOL=1.15); Pf= Lumber DOL=1.15 Plate DOL=1. Fully Exp.; Ct=1.10 3) Unbalanced snow loads have be design. 4) This truss has been designed for load of 12.0 psf or 1.00 times flat overhangs non-concurrent with or 	(3-second gust) CDL=6.0psf; h=25ft; S (envelope) exterior cantilever left and right pht exposed;C-C for for reactions shown; L=1.60 roof live load: Lumber 20.0 psf (flat roof snow: .15); Category II; Exp B; een considered for this r greater of min roof live t roof load of 20.0 psf on							With the	A'	SEA 0363	EER. K



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	CJ07	Jack-Open	1	1	E1 Job Reference (optional)	15498475

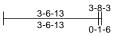
Run: 8,43 S Mar 4 2021 Print: 8,430 S Mar 4 2021 MiTek Industries, Inc. Mon Mar 15 12:35:41

ID:BOKgjJuuGBZQveQ56GIQ0czanO9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

Carter Components, Chesapeake, VA - 23323,

3-8-3 2 12 12 ⊏ 5 3x6 6-10-13 6-10-13 1 3-2-10 4 \boxtimes 3 2x4 II 3x5 =



Scale = 1:43.3

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

					_							
(psf) 20.0 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2015	5/TPI2014	CSI TC BC WB Matrix-MP	0.26 0.15 0.10	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.01 -0.02 -0.01	(loc) 3-4 3-4 2	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 24 lb	GRIP 244/190 FT = 20%
I-3 oc purlins, ex jid ceiling directly icing. 2 = Mecha 4=0-5-8 Horiz 4=127 (LC Uplift 2=-113 (LC Grav 2=123 (LC 4=160 (LC	cept end verticals. / applied or 10-0-0 or anical, 3= Mechanica C 11) .C 14), 3=-76 (LC 14 C 23), 3=106 (LC 12 C 29)	ed or 7) c 8) al, L O	on the bottor 3-06-00 tall b chord and ar Refer to gird Provide mec bearing plate 2 and 76 lb u One RT7A U truss to bear connection is forces.	n chord in all area y 2-00-00 wide w y other members or(s) for truss to t nanical connectio capable of withs plift at joint 3. SP connectors re ng walls due to L for uplift only an	as where vill fit betw s. russ conr on (by oth tanding 1 ecommen JPLIFT at	a rectangle veen the botto nections. ers) of truss t 13 lb uplift at ded to conne jt(s) 4. This	om to t joint ect					
nsion		02										10
TCDL=6.0pst; B Enclosed; MWFR Exterior (2) zone; vertical left and rig proces & MWFRS .60 plate grip DC 10; Pr=20.0 psf (e DOL=1.15); Pf= .15 Plate DOL=1 1.10	CDL=6.0psf; h=25ft; S (envelope) interior cantilever left and ri ght exposed;C-C for for reactions shown DL=1.60 (roof live load: Lumb) =20.0 psf (flat roof sn .15); Category II; Ex	r ght ; er now: xp B;							M. million		i and the second s	• –
	20.0 20.0 10.0 0.0* 10.0 .0.* 10.0 .0.* 2 SP No.2 . SP No.2 . SP No.2 . SP No.3 uctural wood she -3 oc purlins, ex jid ceiling directly cing.) 2= Mecha 4=0-5-8 Horiz 4=127 (L Uplift 2=-113 (L Grav 2=123 (L 4=160 (L) - Maximum Con sion =-198/111, 1-5= =-208/171 =-225/273 10; Vult=130mph TCDL=6.0psf; B Enclosed; MWFRS Xetoric (2) zone; vertical left and ri proces & MWFRS .60 plate grip DC 10; Pr=20.0 psf i = DOL=1.15); Pf= .15 Plate DOL=1 1.10	20.0 20.0 20.0 20.0 10.0 Rep Stress Incr Code 20.0 Rep Stress Incr Code 20.0 20.0 Rep Stress Incr Code 20.0 20.	$\begin{array}{c cccc} 20.0 \\ 20.0$	20.0 Plate Grip DOL 1.15 20.0 Lumber DOL 1.15 10.0 Rep Stress Incr YES 0.0* Code IRC2015/TPI2014 0.0 IRC2015/TPI2014 5) * This truss h 0.0 SP No.2 5) * This truss h SP No.2 SP No.3 5) * This truss h uctural wood sheathing directly applied or a-3 cc purlins, except end verticals. ad 6) Refer to girde 10 2 Mechanical, 3= Mechanical, 4=0-5-8 Moriz 4=127 (LC 11) 8) One RT7A U Uplift 2=-113 (LC 23), 3=106 (LC 12), 4=160 (LC 29) - Maximum Compression/Maximum 8) One RT7A U -Maximum Compression/Maximum 100 CASE(S) LOAD CASE(S) 10; Vult=130mph (3-second gust) TCDL=6.0psf; BCDL=6.0psf; h=25ft; Enclosed; MWFRS (envelope) interior 2xterior (2) zone; cantilever left and right vertical left and right exposed;C-C for Sorces & MWFRS for reactions shown; 60 plate grip DOL=1.60 10; Pr=20.0 psf (roof live load: Lumber 9 DOL=1.15); Category II; Exp B; 10 10 = 1.15); Category II; Exp B; 10	20.0 20.0 20.0Plate Grip DOL Lumber DOL 1.15TC BC BC WB Matrix-MP10.0Rep Stress Incr CodeYESWB Matrix-MP0.0* 10.0CodeIRC2015/TPI2014Matrix-MP10.0CodeIRC2015/TPI2014Matrix-MP10.0SP No.2SP No.2SP No.3S) * This truss has been designed on the bottom chord in all area 3-06-00 tall by 2-00-00 wide w chord and any other membersSP No.3SP No.3S)* This truss has been designed on the bottom chord in all area 3-06-00 tall by 2-00-00 wide w chord and any other membersid ceiling directly applied or 10-0-0 oc cing.SProvide mechanical connectio bearing plate capable of withs 2 and 76 lb uplift at joint 3.02 = Mechanical, 3= Mechanical, 4=0-5-8Moriz 4=127 (LC 11) Uplift 2=-113 (LC 14), 3=-76 (LC 14) Grav 2=123 (LC 23), 3=106 (LC 12), 4=160 (LC 29)Standard- Maximum Compression/Maximum nsion =-198/111, 1-5=-117/102, 2-5=-93/102 =-208/171 =-225/273Standard10; Vult=130mph (3-second gust) TCDL=6.0psf; BCDL=6.0psf; h=25ft; Enclosed; MWFRS (envelope) interior Exterior (2) zone; cantilever left and right vertical left and right exposed; C-C for proces & MWFRS for reactions shown; .60 plate grip DOL=1.60 10; Pr=20.0 psf (roof live load: Lumber e DOL=1.15); Pf=20.0 psf (flat roof snow: .15 Plate DOL=1.15); Category II; Exp B; .10	20.0 20.0 Lumber DOL 1.15TC BC BC0.26 BC BC0.0* 10.0CodeIRC2015/TPI2014Matrix-MP10.0CodeIRC2015/TPI2014Matrix-MP10.0SP No.2SP No.2SP No.2SP No.2SP No.3SP No.2SP No.3uctural wood sheathing directly applied or -3 oc purlins, except end verticals. id ceiling directly applied or 10-0-0 oc cring.SP Mechanical, 3= Mechanical, 4=0-5-8SP No.2Horiz 4=127 (LC 11) Uplift 2=-113 (LC 14), 3=-76 (LC 14) Grav 2=123 (LC 23), 3=106 (LC 12), 4=160 (LC 29)Standard- Maximum Compression/Maximum ision =-198/111, 1-5=-117/102, 2-5=-93/102 =-225/273Standard10; Vult=130mph (3-second gust) TCL=6.0psf; BCDL=6.0psf; h=25ft; Enclosed; MWFRS for reactions shown; 6.0 plate grip DOL=1.60Code It is plate DOL=1.60 It is plate DOL=1.6010; Pr=20.0 psf (roof live load: Lumber a DOL=1.15); Category II; Exp B; L10Lumber Lumber	20.0 Plate Grip DOL 1.15 TC 0.26 Vert(LL) 20.0 Lumber DOL 1.15 BC 0.15 Vert(CT) 10.0 Rep Stress Incr YES WB 0.10 Horz(CT) Horz(CT) 10.0 Code IRC2015/TPI2014 Matrix-MP Matrix-MP Horz(CT) Horz(CT) SP No.2 SP No.3 So purins, except end verticals. So purins, except end verticals. So feer to girder(s) for truss to truss connections. Provide mechanical connection (by others) of truss 1 4 =0-5-8 Horiz 4=127 (LC 11) Provide mechanical sdue to UPLIFT at it(s) 4. This connection is for uplift only and does not consider la forces. One RT7A USP connectors recommended to conne truss to bearing walls due to UPLIFT at it(s) 4. This connection is for uplift only and does not consider la forces. 100 Vult=130mph (3-second gust) TCL=6.0psf; BCDL=6.0psf; h=25ft; inclosed; MWFRS (envelope) interior increas shows; 6.00 pate grip DOL=1.60 To prece a MWFRS for reactions shown; 6.00 pate grip DOL=1.60 NWFRS for reactions shown; 6.01 pate grip DOL=1.15); Pf=20.0 psf (flat roof snow; 15 Plate DOL=1.15); Category II; Exp B; 100	20.0 Plate Grip DOL 1.15 TC 0.26 Vert(LL) -0.01 10.0 Rep Stress Incr YES WB 0.10 Vert(CT) -0.02 0.0* Code IRC2015/TPI2014 Matrix-MP Horz(CT) -0.01 10.0 Code IRC2015/TPI2014 Matrix-MP Horz(CT) -0.01 10.0 SP No.2 SP No.3 SP No.3 SP No.3 So purlins, except end verticals. So Refer to girder(s) for truss to truss connections. 7 10 2 Mechanical, 3= Mechanical, 4=0-5-8 Gone RT7A USP connectors recommended to connect truss to bearing path agains due to UPLIFT at jt(s) 4. This connection is for uplift at joint 3. 80 One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4. This connection is for uplift only and does not consider lateral forces. LOAD CASE(S) Standard 4=0-5-8 Matrix-MP Connection is for uplift only and does not consider lateral forces. Horiz 4=127 (LC 11) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4. This connection is for uplift only and does not consider lateral forces. LOAD CASE(S) Standard 10; Vult=130mph (3-second gust) TCOL=6.0psf; BCDL=6.0psf; h=25ft; inclosed; MWFRS for rea	20.0 Plate Grip DOL 1.15 TC 0.26 Vert(L1) -0.01 3-4 10.0 Rep Stress Incr YES BC 0.15 Vert(CT) -0.02 3-4 0.0* Code IRC2015/TPI2014 Matrix-MP Matrix-MP Horz(CT) -0.01 2 SP No.2 SP No.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. 6) Refer to gird(r)s for truss to truss connections. .3 op purlins, except end verticals. fefr to gird(r)s for truss to truss connections. Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 113 ib uplift at joint 2. and 76 ib uplift at joint 3. 10 zand 76 ib uplift are zonaction is for uplift only and does not consider lateral forces. IOA CASE(S) Standard 10 zand 76 ib uplift are zonaction is for uplift only and does not consider lateral forces. IOAD CASE(S) Standard 10 zand 76 ib uplift are zonaction is for uplift only and does not consider lateral forces. IOAD CASE(S) Standard 10 zandaria dright expendence of the object on the dot for uplift and right vertical let and right vertical let and right vertical let and right vertical let and righ	20.0 Plate Grip DOL 1.15 TC 0.26 Vert(LL) -0.01 3-4 >999 0.0 Rep Stress Incr YES BC 0.15 Vert(CT) -0.02 3-4 >999 0.0* Code IRC2015/TPI2014 Matrix-MP Vert(CT) -0.01 2 n/a SP No.2 SP No.3	20.0 Plate Grip DOL 1.15 TC 0.26 Vert(LL) -0.01 3-4 >999 240 10.0 Rep Stress Incr Code IRC2015/TPI2014 Matrix-MP Vert(LL) -0.01 3-4 >999 240 0.0* Code IRC2015/TPI2014 Matrix-MP Vert(CT) -0.02 3-4 >999 240 .00* Code IRC2015/TPI2014 Matrix-MP Vert(CT) -0.01 2 n/a n/a .90 Phoz SP No.2	20.0 20.0 10.0 0.0* Plate Gip DOL Exp Stress Incr 0.0* 1.15 Rep Stress Incr 10.0 TC 1.15 Rep Stress Incr 10:0 TC 10:0 0.26 BC 0.15 Vert(LL) Vert(CT) -0.01 0:0:3:4:3:>999 240 Vert(CT) MT20 3.0:0 Rep Stress Incr 10:0 YES Code IRC2015/TPI2014 Matrix-MP Horz(CT) -0.01 2:4:4:>999 240 Vert(LL) -0.01 2:4:4:>999 240 Vert(CT) Weight: 24 Ib SP No.2 SP No.2 <td< td=""></td<>



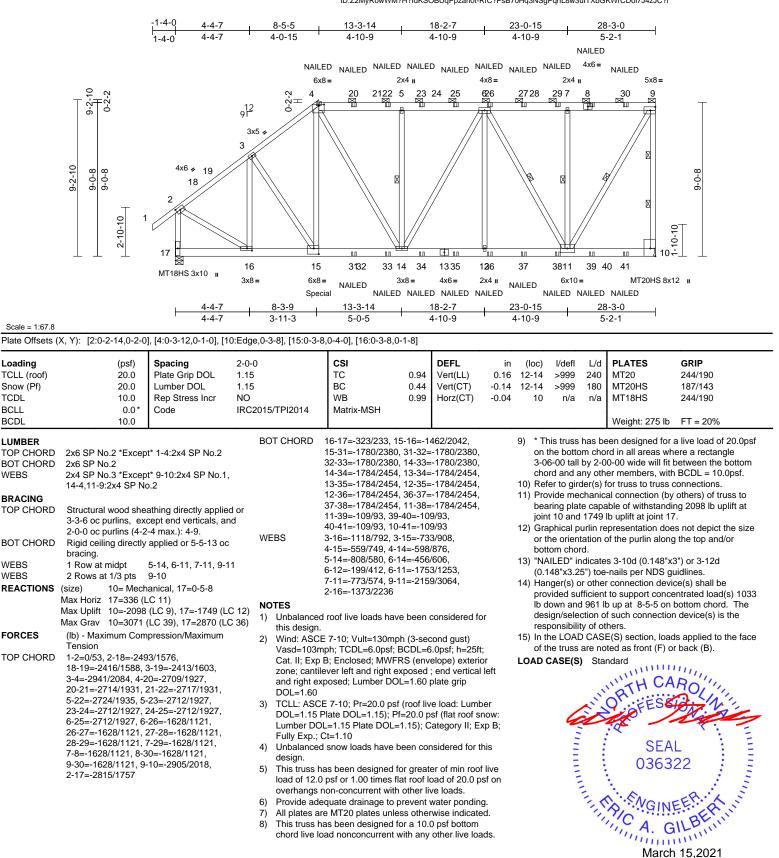
March 15,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	C01	Half Hip Girder	1	1	Job Reference (optional)	E15498476

Run: 8.43 S Mar 4 2021 Print: 8.430 S Mar 4 2021 MiTek Industries, Inc. Mon Mar 15 12:35:34 ID:Z2MyRowWM?H?fdKSOBUqPpzan0t-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

818 Soundside Road Edenton, NC 27932



Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building 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 oullapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	C01	Half Hip Girder	1	1	Job Reference (optional)	E15498476

Run: 8.43 S Mar 4 2021 Print: 8.430 S Mar 4 2021 MiTek Industries, Inc. Mon Mar 15 12:35:34 ID:Z2MyRowWM?H?fdKSOBUqPpzan0t-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 2

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-2=-60, 2-4=-60, 4-9=-60, 10-17=-20 Concentrated Loads (lb)

Vert: 4=-130 (B), 8=-130 (B), 15=-645 (B), 20=-130 (B), 22=-130 (B), 23=-130 (B), 13=-645 (D), 20=-130 (B), 22=-130 (B), 23=-130 (B), 25=-130 (B), 26=-130 (B), 27=-130 (B), 29=-130 (B), 30=-130 (B), 31=-39 (B), 33=-39 (B), 34=-39 (B), 35=-39 (B), 36=-39 (B), 37=-39 (B), 38=-39 (B), 39=-39 (B), 41=-39 (B)

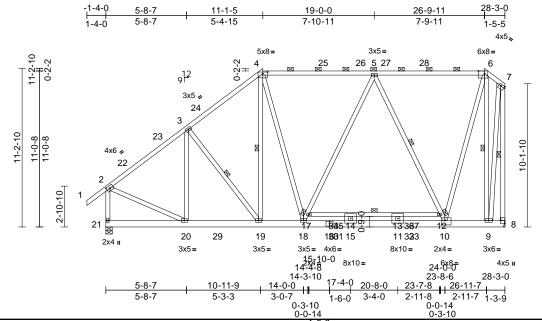
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	C02	Нір	1	1	Job Reference (optional)	E15498477

Run: 8,43 S Mar 4 2021 Print: 8,430 S Mar 4 2021 MiTek Industries. Inc. Mon Mar 15 12:35:35 ID:pYqohwO6T5x01byGrDXL?SzanQ5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:81.5 Plate Offsets (X, Y): [2:0-2-14,0-2-0], [4:0-4-0,0-1-6], [6:0-5-3,Edge], [7:Edge,0-1-8], [8:Edge,0-3-8], [10:0-2-572,0-3-12]

	. , , , ,	1, [· · · · · · ·], [· · ·		-1/1 - 5-/-	-1, [,						
Loading	(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15		TC	0.89	Vert(LL)		11-15	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15		BC	0.83	Vert(CT)		11-15	>877	180		21.0.100
TCDL	10.0	Rep Stress Incr	YES		WB	0.99	Horz(CT)	0.02	8	n/a	n/a		
BCLL	0.0*	Code		5/TPI2014	Matrix-MSH	0.00	11012(01)	0.02	Ũ	n/a	n/a		
BCDL	10.0		11(0201	5/11/2014								Weight: 290 lb	FT = 20%
LUMBER			W	'EBS	3-20=-276/56, 3-1	9=-268/1	84, 4-19=-28	9/80,					mended to connect
TOP CHORD	2x4 SP No.2 *Excep 2.0E	ot* 4-6:2x4 SP 2400F			17-18=0/429, 5-17 10-12=-1003/158,	6-9=-19	07/43,	,	cor	nnection			T at jt(s) 21. This as not consider lateral
BOT CHORD	2x6 SP No.2 *Excep	ot* 17-12:2x4 SP No.2	2		7-9=-115/1198, 2-		,	'		ces.			
WEBS	2x4 SP No.3 *Excep	ot*			6-10=0/1734, 14-1	5=-148/	0, 11-13=-140	0/0					es not depict the size
	19-4,18-5,10-5,9-6,8	8-7,4-18,10-6:2x4 SP	N	OTES								of the purlin along	j the top and/or
	No.2		1)	Unbalanced	roof live loads have	ve been	considered for	r		tom cho			
BRACING				this design.					LOAD	CASE(S) Sta	ndard	
TOP CHORD	Structural wood she	athing directly applied	dor 2)		7-10; Vult=130m								
		except end verticals,	and		ph; TCDL=6.0psf;								
	2-0-0 oc purlins (6-0				B; Enclosed; MWF								
BOT CHORD		applied or 10-0-0 oc			C Exterior (2) -1-4								
	bracing. Except:				0-7, Exterior (2) 6- -6-12, Exterior (2)								
	6-0-0 oc bracing: 12		7.0		ft and right expose								
WEBS		3-19, 4-19, 5-12, 6-9	, 7-8		d;C-C for member								
REACTIONS	()	anical, 21=0-5-8			shown; Lumber D			-					
	Max Horiz 21=407 (I			DOL=1.60	,								
	Max Uplift 21=-74 (L Max Grav 8=1660 (L		37) 3)		E 7-10; Pr=20.0 ps Plate DOL=1.15); F								
FORCES	(lb) - Maximum Com Tension	pression/Maximum			L=1.15 Plate DOL:							mm	911.
TOP CHORD	1-2=0/53, 2-22=-124 3-23=-1097/112, 3-2	14/76, 22-23=-1168/9 24=-1195/136,	1, 4)		snow loads have	been cor	nsidered for th	nis			10	TH CA	ROUT
	4-24=-1112/170, 4-2 25-26=-1086/122, 5	,	5)	This truss h	as been designed psf or 1.00 times f					6	Ž	and the second s	This
	5-27=-624/114, 27-2			overhangs r	ion-concurrent with	h other li	/e loads.			-			and the
	6-28=-621/115, 6-7= 2-21=-1324/132, 7-8	3=-1216/184	6)		unit load placed or d, supported at two			-0-0				SEA 0363	L
BOT CHORD			7)		quate drainage to			1.		=	:	0202	• -
	19-29=-230/1035, 1	,	8)		as been designed			,		1		0363	22 : :
	16-18=-100/966, 16	,	,	chord live lo	ad nonconcurrent	with any	other live load	ds.					1 2
	30-31=-100/966, 15		9)		has been designed)psf			3	·	airi
	11-15=-100/966, 11- 32-33=-100/966, 10-				m chord in all area		•				25	A VGIN	EELAN
	,	=-139/159, 17-34=-29	/62		by 2-00-00 wide w						11	10	OF N
		5=-29/62, 13-14=-29/6	20		ny other members			-				11, A. G	ILDIN
	,	7=-29/62, 12-37=-29/6	· 11	 Keter to gird 	ler(s) for truss to tr	uss conr	lections.					A. G	mm
												March	n 15,2021
												maror	

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

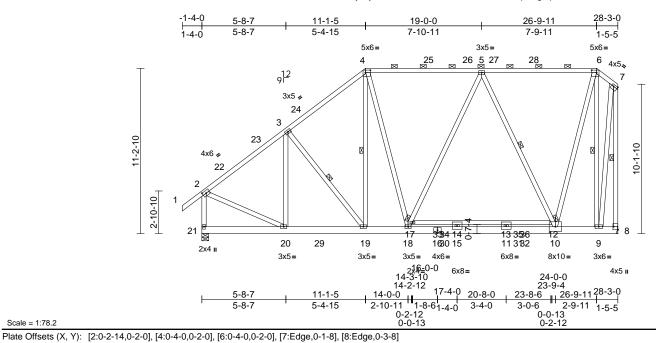


Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	C03	Piggyback Base	1	1	Job Reference (optional)	E15498478

Run: 8,43 S Mar 4 2021 Print: 8,430 S Mar 4 2021 MiTek Industries, Inc. Mon Mar 15 12:35:36 ID:oynXybNI3usJRScosP7KU8zanZ9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Page: 1



Scale = 1:78.2

	:Euge,u-1-8], [8:Euge,u-3-8]	
Loading (psf) Spacing 2-0-0 TCLL (roof) 20.0 Plate Grip DOL 1.15 Snow (Pf) 20.0 Lumber DOL 1.15 TCDL 10.0 Rep Stress Incr YES BCLL 0.0* Code IRC2015/TPI: BCDL 10.0 Herce Stress Incr IRC2015/TPI:	CSI DEFL in (loc) !/defl L/d PLATES GRIP TC 0.66 Vert(LL) -0.19 11-15 >999 240 MT20 244/190 BC 0.84 Vert(CT) -0.38 11-15 >872 180 MT20 244/190 I2014 Matrix-MSH Horz(CT) 0.02 8 n/a n/a n/a	
BRACINGthisTOP CHORDStructural wood sheathing directly applied or $4-11-11$ oc purlins, except end verticals, and $2-0-0$ oc purlins (6-0-0 max.): 4-6.2) Wir Vas CatBOT CHORDRigid ceiling directly applied or 9-9-11 oc bracing.22WEBS1 Row at midpt $3-19, 4-19, 5-12, 6-9, 7-8$ Cat CatREACTIONS(size)8 = Mechanical, 21=0-5-8 Max Horiz 21=410 (LC 11) Max Grav 8=1672 (LC 45), 21=1377 (LC 46)15-FORCES(lb) - Maximum Compression/Maximum TensionDO Lun TCITOP CHORD $1-2=0/53, 2-22=-1251/75, 22-23=-1176/90,$ $3-23=-1104/111, 3-24=-1204/135,$ 44-24=-1119/170, 4-25=-1081/125, $5-27=-619/117, 27-28=-619/117,$ $6-28=-619/117, 27-28=-619/117,$ $6-28=-619/117, 27-28=-619/117,$ $10-23=-97/934, 16-30=-97/934,$ $11-31=-97/934, 16-30=-97/934,$ $11-31=-97/934, 31-32=-97/934,$ $11-31=-97/934, 9-10=-107/198,$ $8-9=-139/161, 17-33=-33/86, 33-34=-33/86, 3-34=-33/86, 14-34=-33/86, 13-35$	17-18=0/438, 5-17=0/500, 5-12=-980/198, truss to bearing walls due to UPLIFT at jt(s) 21. This connection is for uplift only and does not consider lat forces. 10-12=-989/158, 6-9=-1867/40, connection is for uplift only and does not consider lat forces. 7-9=-115/1286, 2-20=0/1010, 4-18=0/656, 6-10=0/1728, 14-15=-152/0, 11-13=-146/0 12) Graphical purlin representation does not depict the s	ize

March 15,2021

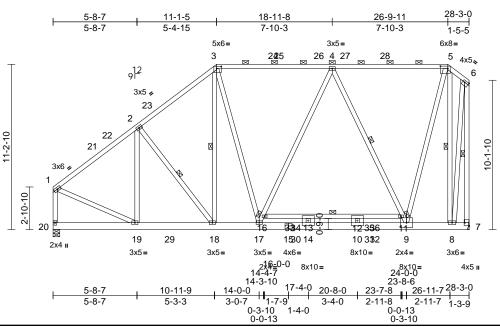


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	C04	Piggyback Base	1	1	Job Reference (optional)	E15498479

Run: 8.43 S Mar 4 2021 Print: 8.430 S Mar 4 2021 MiTek Industries, Inc. Mon Mar 15 12:35:37 ID:0UVDdcdTOk5V20xFwdweD9zanTg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:78.2

Plate Offsets (X, Y): [3:0-3-12,0-1-12], [5:0-6-0,0-2-0], [6:Edge,0-1-8], [7:Edge,0-3-8]

·`	, , , , , , , , , , , , , , , , , , , ,	z], [0.0 0 0,0 z 0], [0		o]; [: :=====;=	c c]								
Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	5/TPI2014	CSI TC BC WB Matrix-MSH	0.90 0.83 0.99	DEFL Vert(LL) Vert(CT) Horz(CT)		(loc) 10-14 10-14 7	l/defl >999 >871 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 288 lb	GRIP 244/190 FT = 20%
		tt 16-11:2x4 SP No. tt 6,3-17,9-5:2x4 SP N athing directly applie except end verticals, -0 max.): 3-5. applied or 9-11-1 oc -16 2-18, 3-18, 4-11, 5-8 inical, 20=0-5-8 .C 11) .C 14) .C 44), 20=1297 (LC ipression/Maximum 22=-1161/82, 23=-1202/138, 24=-1077/124, 5-26=-1077/124, 5-26=-1077/124, 5-26=-1077/124, 5-26=-1077/124, 5-26=-1077/124, 5-26=-1077/124, 5-26=-1077/124, 5-26=-1077/124, 5-26=-1077/124, 5-26=-1077/124, 5-26=-1077/124, 5-26=-1077/124, 5-26=-1077/124, 5-26=-1077/124, 5-26=-1077/124, 5-26=-1077/124, 5-26=-1077/124, 5-26=-1077/124, 5-26=-1077/124, 5-20=-107/156, -108/195, 7-8=-139/ 13-29/61, 13-34=-29/	2 o.2 1) d or and 2) 5 3, 6-7 45) 3) 4) 5) 3/184 6) 7) 8) 160, 9)	OTES Unbalanced this design. Wind: ASCE Vasd=103m Cat. II; Exp I zone and C- 3-1-12 to 6- (1) 15-4-4 to zone; cantilé and right exj MWFRS for grip DOL=1. TCLL: ASCE DOL=1.15 F Lumber DOI Fully Exp.; C Unbalanced design. 200.0lb AC of from left end Provide ade This truss ha chord live lo * This truss on the botto 3-06-00 tall chord and a	E 7-10; Pr=20.0 ps late DOL=1.15); P _=1.15 Plate DOL=	=0/499, B=-1901; 19=0/10 =-149/0 we been with BCDL=6 RS (env 12 to 32 -10-7 to (2) 22-6 exposed nbers ar _umber l f (roof liv f=20.0 p =1.15); C been con the bott points, s prevent i for a 10 with any f or a liv s where ll fil betw with BC	4-11=-979/19 (48, 11, 3-17=0/64 10-12=-140/ considered for considered for considered for considered for considered for considered for 12, Interior 12 to 28-1-4, considered for 12 to 28-1-4, considered for 13 to 28-1-4, considered for 14 to 28-1-4, considered for 15 to 28-1-4, considered for 15 to 28-1-4, considered for 15 to 28-1-4, 16 to 28-1-4, 17 to 28-1-4, 18 to 28-1-4, 19 to 28-1-4, 19 to 28-1-4, 19 to 28-1-4, 19 to 28-1-4, 19 to 28-1-4, 10	96, 42, 70 or (1) or 1eft his θ-0-0 g. ds. Opsf om	trus cor for 11) Gra or t bot LOAD	ss to bea nection ces. aphical p the orien tom cho CASE(S	aring w. is for u urlin retation o rd.) Sta	alls due to UPLIF iplift only and doe opresentation doe of the purlin along	ROUNT INTERNET

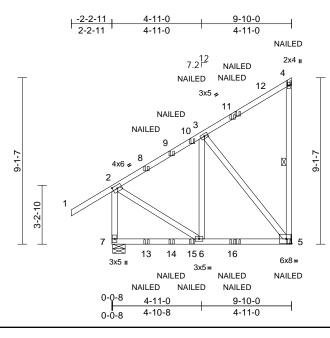




Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	HJ03	Diagonal Hip Girder	1	1	Job Reference (optional)	E15498480

Run: 8,43 S Mar 4 2021 Print: 8,430 S Mar 4 2021 MiTek Industries, Inc. Mon Mar 15 12:36:01 ID:9rMqfC?5k9xyE8aUfkshxozanK8-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:63.1

Plate Offsets	(X, Y): [2:0-2-14,0-2-0)]											
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	0.62		0.09	6-7	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15		BC	0.50	· · ·	-0.09	6-7	>999	180		210.00
TCDL	10.0	Rep Stress Incr	NO		WB	0.66	· · ·	-0.01	5	n/a	n/a		
BCLL	0.0*	Code	IRC20	15/TPI2014	Matrix-MSH		- (-)						
BCDL	10.0											Weight: 79 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD WEBS REACTIONS	 2x4 SP No.2 2x4 SP No.3 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. 1 Row at midpt 	cept end verticals. applied or 6-0-0 oc 4-5 anical, 7=0-8-3 C 9) .C 9), 7=-560 (LC 8)	7 8 9	 load of 12.0 overhangs n This truss ha chord live loa * This truss la on the botton 3-06-00 tall l chord and an Refer to gird Provide mec bearing plate joint 5. One RT7A L 	as been designed i psf or 1.00 times f on-concurrent with as been designed ad nonconcurrent has been designed m chord in all area by 2-00-00 wide w ny other members. ler(s) for truss to tr chanical connection e capable of withst JSP connectors re ing walls due to U	lat roof lin o other lin for a 10.1 with any d for a liv s where ill fit betw uss conr n (by oth commen	oad of 20.0 p: ve loads. 0 psf bottom other live load re load of 20.1 a rectangle veen the botto nections. ers) of truss t 333 lb uplift at ided to conne	sf on ads. Opsf om to					
FORCES	(lb) - Maximum Com Tension	npression/Maximum			s for uplift only and			iteral					
TOP CHORD		=-447/381, 1=-247/187,	1	 "NAILED" in NDS guidline In the LOAD 	dicates 2-12d (0.1 es. CASE(S) section, are noted as front	, loads a	pplied to the f						
BOT CHORD	14-15=-303/206, 6- 6-16=-422/430, 5-16	15=-303/206, 6=-422/430	1	OAD CASE(S)	Standard ow (balanced): Lui	. ,		Plate				OR FESS	RO
WEBS	2-6=-400/531, 3-6=-	-335/368, 3-5=-617/5	580	Uniform Lo	ads (lb/ft)						E	O' FES	Print 1
NOTES					=-60, 2-4=-60, 5-7	/=-20					110		Na Sil
Vasd=10 Cat. II; E: zone; car and right DOL=1.6 2) TCLL: AS DOL=1.1 Lumber E	SCE 7-10; Vult=130mph (3mph; TCDL=6.0psf; B xp B; Enclosed; MWFR itilever left and right ex exposed; Lumber DOL 00 SCE 7-10; Pr=20.0 psf 5 Plate DOL=1.15); Pf= DOL=1.15 Plate DOL=1 0 Ct=1 10	CDL=6.0psf; h=25ft; S (envelope) exterio posed ; end vertical =1.60 plate grip (roof live load: Lumbi =20.0 psf (flat roof sn	r left er iow:	Vert: 4=-	ed Loads (lb) 127 (B), 5=-39 (B) 3=-36), 13=-1 (B),		<i>, , , , , , , , , ,</i>	4)				SEA 0363	

DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10

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

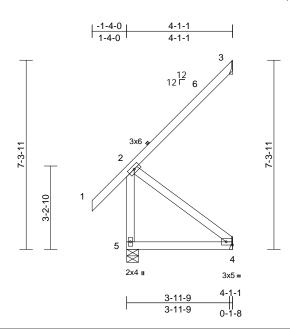
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



G١ A. GIL

Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	CJ01	Jack-Open	1	1	E Job Reference (optional)	15498481

Run: 8.43 S Mar 4 2021 Print: 8.430 S Mar 4 2021 MiTek Industries, Inc. Mon Mar 15 12:35:38 ID:3M_vrFKPKle5mQK3suPOchzanOu-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:44.5

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

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	0.36	Vert(LL)	-0.01	4-5	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15		BC	0.19	Vert(CT)	-0.03	4-5	>999	180		
TCDL	10.0	Rep Stress Incr	YES		WB	0.12	Horz(CT)	-0.01	3	n/a	n/a		
BCLL	0.0*	Code	IRC2)15/TPI2014	Matrix-MP								
BCDL	10.0											Weight: 29 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.2			load of 12.0	as been designed psf or 1.00 times f on-concurrent with	lat roof l	oad of 20.0 p						
WEBS	2x4 SP No.2 2x4 SP No.3				as been designed								
	2X4 SP N0.3				ad nonconcurrent			ade					
BRACING	Other strengt was a disk a	- 46 (has been designed								
TOP CHORD	Structural wood she 4-1-1 oc purlins, ex	cept end verticals.		on the botto	m chord in all area	s where	a rectangle	-					
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. 3-06-00 tall by 2-00-00 wide will fit between th chord and any other members.													
	(size) 3= Mecha 5=0-5-8 Max Horiz 5=171 (LC Max Uplift 3=-111 (L Max Grav 3=120 (LC 5=263 (LC	.C 14), 4=-113 (LC 1 C 24), 4=121 (LC 12	aı, 14)	 Provide med bearing plate 	ler(s) for truss to tr chanical connection e capable of withst uplift at joint 4. Standard	n (by oth	ers) of truss						
FORCES	(lb) - Maximum Corr	,											
TOP CHORD	Tension 2-5=-224/92, 1-2=0/ 3-6=-87/121	63, 2-6=-112/97,											
BOT CHORD	4-5=-317/143												
WEBS	2-4=-180/398											mini	1111
NOTES												IN'LY CA	Rall
 Wind: ASC Vasd=103i Cat. II; Exp zone and C exposed ; members a 	CE 7-10; Vult=130mph mph; TCDL=6.0psf; B b B; Enclosed; MWFR C-C Exterior (2) zone; end vertical left and ri, and forces & MWFRS DL=1.60 plate grip DC	CDL=6.0psf; h=25ft; S (envelope) exterio cantilever left and ri ght exposed;C-C for for reactions shown	or ight							4	AND	SEA 0363	• —

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

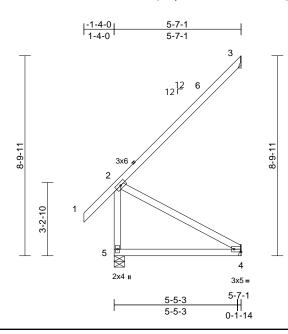
SEAL 036322 March 15,2021



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	CJ06	Jack-Open	1	1	Job Reference (optional)	E15498482

Run: 8.43 S Mar 4 2021 Print: 8.430 S Mar 4 2021 MiTek Industries, Inc. Mon Mar 15 12:35:41 ID:?H9WPZm_spA_4y4_zS2r4HzanOK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:50.7

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

	(X, T): [4:Edge,0 T 0]												
Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2015	5/TPI2014	CSI TC BC WB Matrix-MP	0.68 0.37 0.17	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.05 -0.11 -0.01	(loc) 4-5 4-5 3	l/defl >999 >620 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 36 lb	GRIP 244/190 FT = 20%
TOP CHORD 2x4 SP No.2 load of 12 BOT CHORD 2x4 SP No.2 overhang: WEBS 2x4 SP No.3 5) BRACING TOP CHORD Structural wood sheathing directly applied or 5-7-1 oc purlins, except end verticals. 6) * This trus on the bot 3-06-00 te chord and the bot 3-06-00 te chord and 3-06-00					as been designed fr psf or 1.00 times fli ion-concurrent with as been designed fr ad nonconcurrent v has been designed m chord in all areas by 2-00-00 wide wil ny other members. ler(s) for truss to tru- shanical connection e capable of withsts 8 lb uplift at joint 4. Standard	at roof I other Ii or a 10. vith any for a Iiv s where I fit betw iss coni (by oth anding 1	bad of 20.0 p ve loads. 0 psf bottom other live loa re load of 20. a rectangle veen the bott nections. ers) of truss	ads. Opsf tom					
FORCES	(lb) - Maximum Com Tension	npression/Maximum											
TOP CHORD	2-5=-266/71, 1-2=0/ 3-6=-135/162	/63, 2-6=-168/130,											
BOT CHORD WEBS	4-5=-378/192 2-4=-220/432											min	1111
Vasd=10 Cat. II; Ex zone and exposed	CE 7-10; Vult=130mph 3mph; TCDL=6.0psf; B xp B; Enclosed; MWFR C-C Exterior (2) zone; ; end vertical left and ri and forces & MWFRS									ORTH CA			

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

SEAL 036322 MGINEER March 15,2021

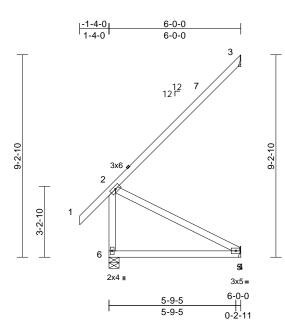
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	EJ03	Jack-Open	10	1	Job Reference (optional)	E15498483

Run: 8.43 S Mar 4 2021 Print: 8.430 S Mar 4 2021 MiTek Industries, Inc. Mon Mar 15 12:35:53 ID:ANN87_NYXO5T8efQbws059zanrE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:52.4

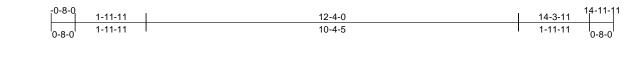
		i										
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	-0.07	5-6	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.13	5-6	>515	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.19	Horz(CT)	-0.01	3	n/a	n/a		
BCLL	0.0*	Code	IRC2015/TPI2014	Matrix-MP								
BCDL	10.0								-		Weight: 38 lb	FT = 20%
	2-2-0 oc purlins, ex Rigid ceiling directly bracing. (size) 3= Mecha 6=0-5-8 Max Horiz 6=233 (L0 Max Uplift 3=-179 (L	applied or 9-1-12 oc anical, 5= Mechanica C 14) C 14), 5=-96 (LC 14	chord live 6) * This trus on the bot 3-06-00 ta chord and 7) Refer to g 8) Provide m bearing pl joint 3 and I.OAD CASE(has been designed load nonconcurrent s has been designed om chord in all area Il by 2-00-00 wide w any other members rder(s) for truss to tr echanical connection ate capable of withst 96 lb uplift at joint 5 5) Standard	with any d for a liv is where ill fit betv tuss conr n (by oth tanding 1	other live loa e load of 20. a rectangle veen the bott nections. ers) of truss	0psf com to					
	Max Grav 3=193 (L0 6=336 (L0),									
FORCES	(lb) - Maximum Com	pression/Maximum										
	Tension											
TOP CHORD	2-6=-278/67, 1-2=0/ 3-7=-146/173	63, 2-7=-183/139,										
BOT CHORD	5-6=-394/205, 4-5=0	0/0										
WEBS	2-5=-232/444											
NOTES												1111
 Vasd=103i Cat. II; Exp zone and C exposed ; members a Lumber DC TCLL: ASC DOL=1.15 Lumber DC Fully Exp.; Unbalance design. This truss load of 12. 	E 7-10; Vult=130mph mph; TCDL=6.0psf; B o B; Enclosed; MWFR C-C Exterior (2) zone; end vertical left and ri and forces & MWFRS DL=1.60 plate grip DC CE 7-10; Pr=20.0 psf (Plate DOL=1.15); Pf= DL=1.15 Plate DOL=1 Ct=1.10 d snow loads have be has been designed fo 0 psf or 1.00 times fla non-concurrent with o	CDL=6.0psf; h=25ft; S (envelope) exterior cantilever left and rig ght exposed;C-C for for reactions shown; Ju=1.60 roof live load: Lumbe 20.0 psf (flat roof sn .15); Category II; Exp een considered for th r greater of min roof t roof load of 20.0 ps	r ght er ow: p B; is live						N. COLLINS.		SEA 0363	22

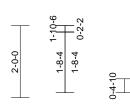
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

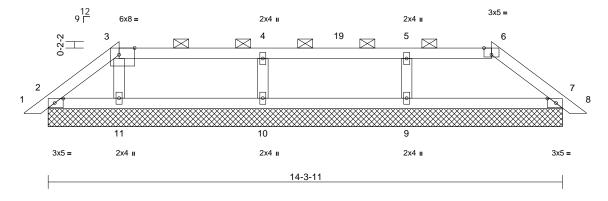


Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	PB01	Piggyback	1	1	Job Reference (optional)	E15498484

Run: 8.43 S Mar 4 2021 Print: 8.430 S Mar 4 2021 MiTek Industries, Inc. Mon Mar 15 12:36:05 ID:40ymn5u0YJIy5cZPmcbnX0zano_-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1







Scale = 1:32

Plate Offsets	(X, Y): [2:0-2-13,0-1-	8], [3:0-5-3,Edge], [6:	0-2-8,Edg	e], [7:0-2-13,0-	1-8]								
Loading TCLL (roof) Snow (Pf) TCDL BCLL BCDL	(psf) 20.0 20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	5/TPI2014	CSI TC BC WB Matrix-MSH	0.33 0.14 0.08	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 16	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 51 lb	GRIP 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	 2x4 SP No.2 2x4 SP No.3 Structural wood sh 6-0-0 oc purlins, e) 2-0-0 oc purlins (6- Rigid ceiling directl bracing. (size) 2=14-3- 10=14-3 12=14-3 Max Horiz 2=-43 (L Max Uplift 2=-30 (L 9=-46 (L 11=-36 (16=-39 (L 9=428 (L 9=428 (L 11=182 	0-0 max.): 3-6. y applied or 10-0-0 or 11, 7=14-3-11, 9=14-3 -11, 11=14-3-11, -11, 16=14-3-11 C 12), 12=-43 (LC 12) C 15), 7=-39 (LC 15), C 10), 10=-71 (LC 10 LC 11), 12=-30 (LC 1 LC 15) .C 37), 7=279 (LC 37 .C 36), 10=500 (LC 3 (LC 36), 12=241 (LC	ed or 3) 3-11,), 5), 5)), 6) 37),	Cat. II; Exp E zone and C-1 6-8-0 to 8-9- cantilever lef right exposer for reactions DOL=1.60 Truss design only. For stu see Standard or consult qu TCLL: ASCE DOL=1.15 P Lumber DOL Fully Exp.; C Unbalanced design. This truss ha load of 12.0 overhangs n	.0psf; h=25ft; elope) exterio 0, Interior (1) 5-4 zone; vertical left an rces & MWFR) plate grip ane of the tru: al to the face; ils as applical s per ANSI/TF e load; Lumb sf (flat roof sn ategory II; Ex nsidered for th er of min roof pad of 20.0 ps ve loads.	r S S ble, ble, ble, ble, ble, ble, ble, ble,	or th	ne orien om choi	tation o rd.	of the purlin alon	es not depict the s g the top and/or		
FORCES	Tension				 7) Provide adequate drainage to prevent water ponding. 8) Gable requires continuous bottom chord bearing. 9) Gable studs spaced at 4-0-0 oc. 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads. 11) * This truss has been designed for a live load of 20.0psf 								
BOT CHORD WEBS NOTES 1) Unbalanc this desig	7-9=-1/141 3-11=-121/76, 4-10 sed roof live loads hav	/104 12	3-06-00 tall b chord and ar 2) One RT7A U truss to bear and 9. This c consider late 8) See Standar Detail for Co	n chord in all area by 2-00-00 wide w y other members ISP connectors re ing walls due to L connection is for u ral forces. d Industry Piggyb nnection to base fied building desig	vill fit betw comment IPLIFT at plift only ack Trus truss as a	veen the botto ded to conne jt(s) 2, 7, 11, and does not s Connection	ct 10,		THUNNY.		SEA 0363	EER A	

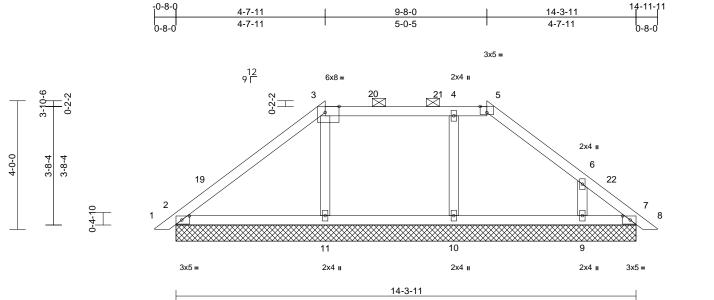
March 15,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	89 Lake Forest-Roof-BB-2086	
21030024-A	PB02	Piggyback	1	1	Job Reference (optional)	E15498485

Run: 8.43 S Mar 4 2021 Print: 8.430 S Mar 4 2021 MiTek Industries, Inc. Mon Mar 15 12:36:06 ID:vYJ129zn8936pX0Y7siBmHzannu-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:35.8

Ocale = 1.55.0														
Plate Offsets ((X, Y): [2:0-2-13,0-1-	8], [3:0-5-3,Edge], [5:0	-2-8,Edg	e], [7:0-2-13,0-	1-8]									
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	0.39	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
Snow (Pf)	20.0	Lumber DOL	1.15		BC	0.37	Vert(CT)	n/a		n/a	999			
TCDL	10.0	Rep Stress Incr	YES		WB	0.10	Horz(CT)	0.00	7	n/a	n/a			
BCLL	0.0*	Code	IRC201	5/TPI2014	Matrix-MSH									
BCDL	10.0											Weight: 59 lb	FT = 20%	
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.3 Structural wood sh 6-0-0 oc purlins, ex 2-0-0 oc purlins (6-			Vasd=103m Cat. II; Exp E zone and C- exposed ; er members an Lumber DOL Truss desigr only. For stu	7-10; Vult=130m ph; TCDL=6.0pst; 3; Enclosed; MWF C Exterior (2) zon- nd vertical left and d forces & MWFR _=1.60 plate grip D ed for wind loads uds exposed to win	BCDL=6 RS (env right exp S for rea DOL=1.60 in the pl nd (norm	S.Opsf; h=25ft elope) exteric ever left and ri posed;C-C for actions shown 0 ane of the tru nal to the face	or ight r; ss),	or t		tation rd.	of the purlin along	es not depict the size g the top and/or	
BOT CHOILD	bracing.	y applied of 0-0-0 oc		see Standard Industry Gable End Details as applicable,										
REACTIONS	(size) 2=14-3-1 10=14-3 12=14-3 12=14-3 Max Horiz 2=-93 (L Max Uplift 2=-38 (L 10=-67 (12=-38 (L 9=345 (L 11=370) 15=199), 5)), 6)	 a) TOLE. ASCE 7-10, FI=20.0 psf (1001 live 10ac. Lumber DDL=1.15 Plate DDL=1.15); Pf=20.0 psf (flat roof snow: Lumber DDL=1.15); Pf=20.0 psf (flat roof snow: Lumber DDL=1.15 Plate DDL=1.15); Category II; Exp B; Fully Exp.; Ct=1.10 5) Unbalanced snow loads have been considered for this design. 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads. 											
FORCES	(lb) - Maximum Cor Tension	mpression/Maximum	9	Gable studs	es continuous bot spaced at 4-0-0 o as been designed	с.	0					NITH CA	RO	
TOP CHORD		200	chord live loa 1) * This truss h on the bottor	ad nonconcurrent has been designed m chord in all area by 2-00-00 wide w	with any d for a liv is where	other live loa ve load of 20.0 a rectangle	Opsf		4	0	HP 1			
BOT CHORD		1=-3/150, 9-10=-3/150	,	chord and ar	ny other members							SEA	• –	
WEBS		0=-350/110, 6-9=-278	138		ring walls due to U					=		0363	22 : =	
NOTES	,	,			connection is for u					1			- 1 2	
	ed roof live loads have	e been considered for		consider late				-			2	Sec. 1	1. 5	
this design			1:	3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members. 12) One RT7A USP connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 11, 10, and 9. This connection is for uplift only and does not consider lateral forces. 13) See Standard Industry Piggyback Truss Connection Detail for Connection to have turne on applicable, or								EERIA		

 See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



A. GILP.... March 15,2021

