

RE: 21060021-B Mckay Dr. -Roof-Duplex Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:Customer: R CHI LLCProject Name: 21060021-BLot/Block: 1Model:Address: McKay Dr.Subdivision: Waters EdgeCity: Spring LakeState: NC

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

Design Code: IRC2018/TPI2014 Wind Code: ASCE 7-16 Roof Load: 40.0 psf Design Program: MiTek 20/20 8.5 Wind Speed: 130 mph Floor Load: N/A psf

This package includes 5 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	147640976	T1	8/27/2021
2	147640977	T1GE	8/27/2021
3	147640978	T2	8/27/2021
4	147640979	T2GE	8/27/2021
5	147640980	T2SE	8/27/2021

The truss drawing(s) referenced above have been prepared by

Truss Engineering Co. under my direct supervision

based on the parameters provided by Carter Components (Sanford, NC)).

Truss Design Engineer's Name: Sevier, Scott

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

North Carolina COA: C-0844

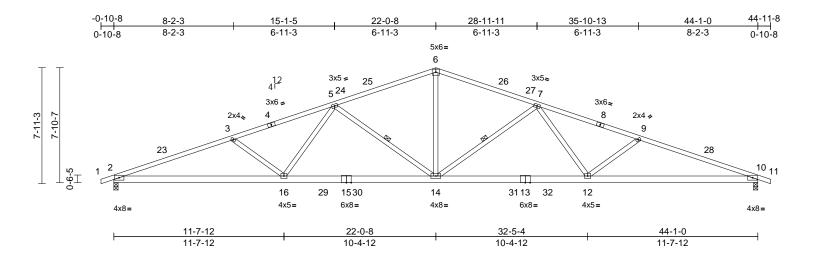
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which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



Job	Truss	Truss Type	Qty	Ply	Mckay DrRoof-Duplex	
21060021-B	T1	Common	6	1	Job Reference (optional)	147640976

Run: 8.52 S Aug 18 2021 Print: 8.520 S Aug 18 2021 MiTek Industries, Inc. Thu Aug 26 08:15:55 ID:wQYu\_?0IEk9neDU3pTfOTAyYnSV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



#### Scale = 1:78.9

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL LUMBER	(psf) 20.0 13.9/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2018,		CSI TC BC WB Matrix-MSH 7-16; Pr=20.0 psi	0.81 0.94 0.67 f (roof LL		in -0.37 -0.69 0.13	(loc) 12-14 12-14 10	l/defl >999 >772 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 241 lb	<b>GRIP</b> 244/190 FT = 20%	
TOP CHORD BOT CHORD WEBS BRACING TOP CHORD	No.2 2x4 SP No.3	*Except* 15-13:2x6 \$ eathing directly applie	4)	DOL=1.15 Pl Exp.; Ce=0.9 Unbalanced design. This truss ha load of 12.0 p	.15); Pg=20.0 psf late DOL=1.15); Is b; Cs=1.00; Ct=1.1 snow loads have h s been designed f psf or 2.00 times fi	=1.0; Ro 0 been cor for greate lat roof le	bugh Cat B; F nsidered for t er of min roo pad of 13.9 p	his f live						
	(Ib/size) 2=1533/0 Max Horiz 2=72 (LC Max Uplift 2=-16 (LC Max Grav 2=1951 (I	7-14, 5-14 -3-8, 10=1533/0-3-8 19) C 11), 10=-16 (LC 12) LC 3), 10=1951 (LC 3	7)	* This truss h on the bottom 3-06-00 tall b chord and an One H2.5A S recommende UPLIFT at jt(	on-concurrent with nas been designed n chord in all area by 2-00-00 wide wi yo other members, simpson Strong-Ti ad to connect truss s) 2 and 10. This of	I for a liv s where ill fit betv with BC e conne to bear connecti	re load of 20. a rectangle veen the bott CDL = 10.0ps ctors ing walls due on is for uplif	om f. e to						
FORCES	5-6=-3106/531, 6-7=	4/710, 3-5=-4406/619	),	This truss is International	s not consider late designed in accord Residential Code nd referenced star Standard	dance w sections	ith the 2018 8 R502.11.1 a	and						
BOT CHORD	2-16=-591/4445, 14 12-14=-442/3696, 1	-16=-440/3696,	20/		Standard								<b>1</b> 1.	
WEBS	6-14=-157/1610, 7-1 7-12=0/791, 9-12=-4 5-16=0/791, 5-14=-1	484/212, 3-16=-484/2	212,							÷	AL.	WH CA	ROLIN	
this design 2) Wind: ASC Vasd=103r Cat. II; Exp Exterior(2E	d roof live loads have E 7-16; Vult=130mph mph; TCDL=6.0psf; B B; Enclosed; MWFR E) -0-10-3 to 3-6-11, Ir terior(2R) 22-0-8 to 26	n (3-second gust) CDL=6.0psf; h=25ft; S (envelope) and C-0 nterior (1) 3-6-11 to	C								Øð	SEA 0449	•	7

Exterior(2E) -0-10-3 to 3-6-11, Interior (1) 3-6-11 to 22-0-8, Exterior(2R) 22-0-8 to 26-5-6, Interior (1) 26-5-6 to 44-11-3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33



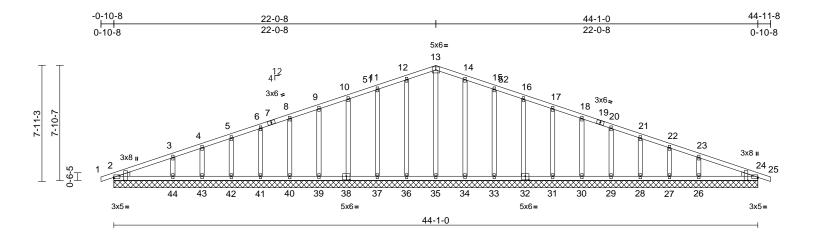
August 27,2021

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/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	Mckay DrRoof-Duplex	
21060021-B	T1GE	Common Supported Gable	2	1	Job Reference (optional)	147640977

Run: 8.52 S Aug 18 2021 Print: 8.520 S Aug 18 2021 MiTek Industries, Inc. Thu Aug 26 08:15:58 ID:FIGDiKNRYKbFv1JLBD8tK4yYnPT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:78.9

Plate Offsets (X, Y): [2:Edge,0-1-1], [2:0-2-10,Edge], [24:Edge]	ge,0-1-1], [24:0-2-1	0,Edge], [32:0-3-0,0-3-0], [38:0-3-0,0-3-0]	
TCLL (roof)         20.0         Plate Grip DOL         1.           Snow (Pf/Pg)         13.9/20.0         Lumber DOL         1.           TCDL         10.0         Rep Stress Incr         Y	-0-0 .15 .15 ES RC2018/TPI2014	CSI         DEFL         in           TC         0.13         Vert(LL)         n/a           BC         0.15         Vert(CT)         n/a           WB         0.15         Horz(CT)         0.00           Matrix-MSH         Image: Comparison of the second se	(loc)         l/defi         L/d         PLATES         GRIP           -         n/a         999         MT20         244/190           24         n/a         n/a         weight: 258 lb         FT = 20%
LUMBER TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 OTHERS 2x4 SP No.2 OTHERS 2x4 SP No.2 Right: 2x4 SP No.2 BRACING TOP CHORD Structural wood sheathing directly applied or $6-0 \circ 0 \circ purlins$ . BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. REACTIONS (lb/size) 2=169/44-1-0, 24=169/44-1-0, 26=265/44-1-0, 27=81/44-1-0, 28=149/44-1-0, 29=132/44-1-0, 30=137/44-1-0, 31=133/44-1-0, 32=136/44-1-0, 33=137/44-1-0, 34=139/44-1-0, 33=137/44-1-0, 34=139/44-1-0, 33=137/44-1-0, 34=139/44-1-0, 37=137/44-1-0, 34=139/44-1-0, 41=132/44-1-0, 40=137/44-1-0, 43=81/44-1-0, 44=265/44-1-0, 45=169/44-1-0, 48=169/44-1-0 Max Horiz 2=72 (LC 15), 48=72 (LC 15) Max Uplift 24=-9 (LC 12), 26=-23 (LC 16), 27=-4 (LC 12), 28=-10 (LC 16), 33=-9 (LC 12), 30=-8 (LC 12), 33=-9 (LC 12), 30=-8 (LC 12), 33=-9 (LC 12), 34=-7 (LC 16), 36=-8 (LC 15), 41=-9 (LC 11), 42=-11 (LC 16), 32=-3 (LC 11), 44=-27 (LC 15), 45=-9 (LC 12)		$\begin{array}{c} 26=314\ (LC\ 36),\ 27=96\ (LC\ 2),\\ 28=176\ (LC\ 36),\ 29=156\ (LC\ 2),\ 2\\ 30=161\ (LC\ 2),\ 31=158\ (LC\ 36),\\ 32=163\ (LC\ 23),\ 33=191\ (LC\ 23),\\ 34=196\ (LC\ 23),\ 35=132\ (LC\ 32),\\ 36=196\ (LC\ 22),\ 37=191\ (LC\ 22),\\ 38=163\ (LC\ 22),\ 37=191\ (LC\ 22),\\ 38=163\ (LC\ 22),\ 37=191\ (LC\ 22),\\ 40=161\ (LC\ 2),\ 41=156\ (LC\ 2),\\ 42=176\ (LC\ 35),\ 43=96\ (LC\ 2),\\ 44=314\ (LC\ 35),\ 45=204\ (LC\ 2),\\ 48=204\ (LC\ 2)\\ (lb) - Maximum\ Compression/Maximum\\ Tension\\ 1-2=0/20,\ 2\cdot3=-84/39,\ 3\cdot4=-83/40,\\ 4\cdot5=-68/52,\ 5\cdot6=-62/71,\ 6\cdot8=-54/96,\\ 8\cdot9=-64/120,\ 9\cdot10=-74/144,\ 10\cdot11=-86/170,\\ 11-12=-98/195,\ 12-13=-109/218,\\ \end{array}$	<ol> <li>Unbalanced roof live loads have been considered for this design.</li> <li>Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner(3E) -0-10-3 to 3-6-11, Exterior(2N) 3-6-11 to 22-0-8, Corner(3R) 22-0-8 to 26-5-6, Exterior(2N) 26-5-6 to 44-11-3 zone;C-C for members and forces &amp; MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.33</li> <li>Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.</li> <li>TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=13.9 psf (Lum DOL=1.15 Plate DOL=1.16); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10</li> <li>Unbalanced snow loads have been considered for this design.</li> </ol>

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 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	Mckay DrRoof-Duplex	
21060021-B	T1GE	Common Supported Gable	2	1	Job Reference (optional)	147640977
Carter Components (Sanford), Sa	inford, NC - 27332,	Run: 8.52 S Aug 18 2	2021 Print: 8.	.520 S Aug 1	8 2021 MiTek Industries, Inc. Thu Aug 26 08:15:58	Page: 2

ID:FIGDiKNRYKbFv1JLBD8tK4yYnPT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

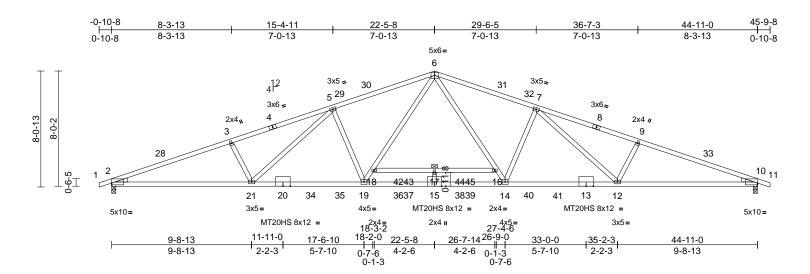
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on 6) overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated. 7)
- 8) Gable requires continuous bottom chord bearing.
- 9) Gable studs spaced at 2-0-0 oc.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 32.

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Job	Truss	Truss Type	Qty	Ply	Mckay DrRoof-Duplex	
21060021-B	T2	Common	10	1	Job Reference (optional)	147640978

Run: 8.52 S Aug 18 2021 Print: 8.520 S Aug 18 2021 MiTek Industries, Inc. Thu Aug 26 08:15:59 ID:xOKFtQFmjQXJ0mpKttDGZjyYmZP-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:80.1

# Plate Offsets (X, Y): [2:Edge,0-1-9], [10:Edge,0-1-9]

												-		
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 13.9/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC201	8/TPI2014	CSI TC BC WB Matrix-MSH	0.89 0.97 0.86	DEFL Vert(LL) Vert(CT) Horz(CT)	in -0.65 -1.37 0.24	(loc) 17 17 10	l/defl >827 >393 n/a	L/d 240 180 n/a	PLATES MT20 MT20HS Weight: 231 lb	<b>GRIP</b> 244/190 187/143 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS WEDGE	2x4 SP 2400F 2.0E 2x4 SP 2400F 2.0E No.2 2x4 SP No.3 Left: 2x4 SP No.3 Right: 2x4 SP No.3	*Except* 18-16:2x4	2) SP	Vasd=103m Cat. II; Exp E Exterior(2E) 22-5-8, Exte 26-11-6 to 4 MWFRS for	7-16; Vult=130mp ph; TCDL=6.0psf; 3; Enclosed; MWF -0-10-3 to 3-7-11, rior(2R) 22-5-8 to 3 5-9-3 zone;C-C for reactions shown; I	BCDL=6 RS (env Interior 26-11-6, r membe	6.0psf; h=25ff elope) and C (1) 3-7-11 to Interior (1) ers and forces	s &						
BRACING TOP CHORD BOT CHORD	Structural wood she 2-2-0 oc purlins. Rigid ceiling directly bracing. Except: 6-0-0 oc bracing: 16	applied or 2-2-0 oc	4)	Plate DOL=1 DOL=1.15 P Exp.; Ce=0.9 Unbalanced design.	E 7-16; Pr=20.0 psi 1.15); Pg=20.0 psi; late DOL=1.15); Is 9; Cs=1.00; Ct=1.1 snow loads have b	; Pf=13.9 =1.0; R0 0 been col	9 psf (Lum bugh Cat B; F nsidered for t	<sup>-</sup> ully his						
	(Ib/size) 2=1749/0 Max Horiz 2=73 (LC Max Grav 2=2288 (L (Ib) - Maximum Com	_C 3), 10=2288 (LC 3	5)	load of 12.0 overhangs n	as been designed f psf or 2.00 times fl on-concurrent with	lat roof l o other li	oad of 13.9 p ve loads.	osf on						
FURGES	Tension	ipression/iviaximum	6)		unit load placed on , supported at two		,	∠-⊃-ŏ						
TOP CHORD	1-2=0/20, 2-3=-5611 5-6=-4686/144, 6-7= 7-9=-5444/258, 9-10	-4686/144,	8)	All plates are * This truss I	MT20 plates unle nas been designed m chord in all area	ess othe for a liv	wise indicate e load of 20.						<u>н</u> .	
BOT CHORD	2-21=-165/5245, 19 14-19=0/3703, 12-14 10-12=-167/5245, 11 16-17=-159/0	4=0/4633, 7-18=-159/0,	9)	3-06-00 tall I chord and ar This truss is International	by 2-00-00 wide wi by other members, designed in accord Residential Code	ill fit betw with BC dance w sections	veen the bott DL = 10.0ps ith the 2018 s R502.11.1 a	f.			No.	ORTH CA	ROLIN	2
WEBS	3-21=-382/193, 5-21 5-19=-721/259, 18-1 6-18=0/1563, 6-16= 7-14=-721/259, 7-12 9-12=-382/193, 15-1	19=-23/1362, 0/1563, 14-16=-23/1 2=-140/695,	362, LC	R802.10.2 a DAD CASE(S)	nd referenced star Standard	ndard AN	ISI/TPI 1.			Annua	Æ.	SEA 0449	•	Runn

### NOTES

 Unbalanced roof live loads have been considered for this design.



818 Soundside Road Edenton, NC 27932 Page: 1

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Job	Truss	Truss Type	Qty	Ply	Mckay DrRoof-Duplex	
21060021-B	T2GE	Common Supported Gable	2	1	Job Reference (optional)	7640979

3x5=

46

45

44

43 4241

3x6=

Run: 8.52 S Aug 18 2021 Print: 8.520 S Aug 18 2021 MiTek Industries, Inc. Thu Aug 26 08:15:59 ID:1UykAlgzaaLQ7tbICmDjJiyYmOW-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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33

32

3130 29

3x6=

34

35

36

44-11-0

5x6=

XXXXXX

28

27

Page: 1

45-9-8

0-10-8

<sup>24</sup> 25

3x5=

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26

22-5-8 44-11-0 22-5-8 22-5-8 5x6= 13 12 r P 14 4<sup>12</sup> 541 1555 **53**0 166 3x6 = 18 <sup>3x6</sup>≈ 9 17 8 <sup>19</sup>20 7 8-0-13 8-0-2 6 -TEL 5 21 22 23 3x8 II 3x8 II 2 0-6-5 1 

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39

40

38

37



Scale = 1:80.1 Plate Offsets (X, Y):	[2:Edge,0-1-1]	, [2:0-2-10,Edge], [24:Ed	ge,0-1-1], [24:0-2-1	0,Edge], [36:0-3-	0,0-3-0]							
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 13.9/20.0 10.0 0.0* 10.0	Plate Grip DOL1Lumber DOL1Rep Stress IncrY	-0-0 .15 .15 ES RC2018/TPI2014	CSI TC BC WB Matrix-MSH	0.17 0.18 0.15	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.01	(loc) - - 24	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 264 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD 2x4 BOT CHORD 2x4 OTHERS 2x4 WEDGE Left Rig BRACING TOP CHORD Stri 6-0 BOT CHORD Rig bra REACTIONS (lb/si	SP No.2 SP No.2 SP No.2 SP No.3 : 2x4 SP No.2 ictural wood she -0 oc purlins. id ceiling directly cing. ze) 2=184/44 28=154/4 31=137/4 33=136/4 35=139/4 39=36/4 41=137/4 44=154/4 44=154/4 44=54/4 50=184/4 Horiz 2=73 (LC 29=-8 (LC 32=-9 (LC 32=-9 (LC 39=-9 (LC 30=-9	Pathing directly applied or applied or 10-0-0 oc -11-0, 24=184/44-11-0, 4-11-0, 27=63/44-11-0, 4-11-0, 32=135/44-11-0, 4-11-0, 32=135/44-11-0, 4-11-0, 34=135/44-11-0, 4-11-0, 34=135/44-11-0, 4-11-0, 43=131/44-11-0, 4-11-0, 45=63/44-11-0, 4-11-0, 45=63/44-11, 4-10, 45=63/44-11-0, 4-10, 45=63/44-	FORCES TOP CHORD	28=1 31=1 33=1 35=1 37=1 39=1 41=1 44=1 46=3	51 (LC 36), 82 (LC 36), 82 (LC 36), 61 (LC 36), 71 (LC 23), 97 (LC 23), 97 (LC 22), 71 (LC 22), 61 (LC 35), 82 (LC 35), 51 (LC 35), 52 (LC	27=74 (LC 2 29=755 (LC 3 32=160 (LC 3 34=190 (LC 3 36=128 (LC 3 38=190 (LC 3 40=160 (LC 3 40=160 (LC 3 45=74 (LC 2 47=221 (LC 3 45=74 (LC 2 47=21 (LC 3 45=74	), 2), 2), 2), 32), 32), 22), 2), 2), 75, 6/64, 77, 82, 782, 782, 782, 782, 782, 782,	this 2) Win Vas Cat Cor 22-5 26- 26- MW grip 3) Tru only see or c 4) TCL Plat DOID Exp	alanced design. d: ASCI d=103n. II; Exp for all; Exp for all for all fFRS for DOL=1 iss desig f. For si Standa onsult q L: ASC e DOL= _=1.15 I .; Ce=0 alanced ign.	E 7-16; haph; TC B; Enco-0-0-: ner(3R 45-9-3: ar reactin 45-9-3: ar reactin 33 gned fc tuds ex rd Indu ualifiec E 7-16 (±1.15); Plate D 9.9; Cs= d snow	ve loads have be Vult=130mph (3 DL=6.0psf; BCD losed; MWFRS ( 3 to 3-7-11, Exter ) 22-5-8 to 26-11 zone;C-C for mer ons shown; Lumt or wind loads in th typosed to wind (n istry Gable End D d building designe ; Pr=20.0 psf; Pf= IOL=1.15); Is=1.0 1.00; Ct=1.10 Ioads have been	en considered for -second gust) L=6.0psf; h=25ft; envelope) and C-C ior(2N) 3-7-11 to -6, Exterior(2N) mbers and forces & ner DOL=1.60 plate en plane of the truss ormal to the face), Details as applicable, ar as per ANSI/TPI 1. of LL: Lum DOL=1.15

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 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	Mckay DrRoof-Duplex	
21060021-B	T2GE	Common Supported Gable	2	1	Job Reference (optional)	147640979

- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 13.9 psf on 6) overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated. 7)

8) Gable requires continuous bottom chord bearing.

9) Gable studs spaced at 2-0-0 oc.

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.

Run: 8.52 S Aug 18 2021 Print: 8.520 S Aug 18 2021 MiTek Industries, Inc. Thu Aug 26 08:15:59 ID:1UykAlgzaaLQ7tbICmDjJiyYmOW-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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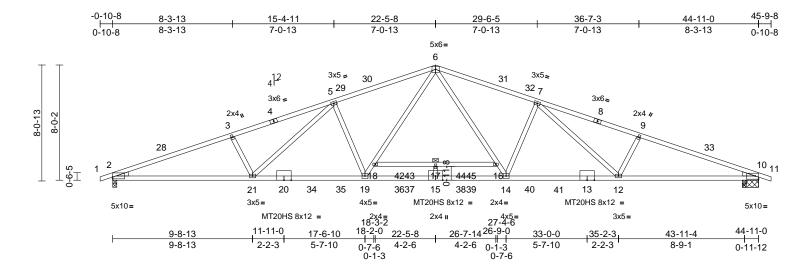
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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	Mckay DrRoof-Duplex	
21060021-B	T2SE	Common	2	1	I47640980 Job Reference (optional)	

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Scale = 1:80.1

# Plate Offsets (X, Y): [2:Edge,0-1-9], [10:Edge,0-2-11]

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)	-0.64	17	>843	240	MT20	244/190
Snow (Pf/Pg)	13.9/20.0	Lumber DOL	1.15		BC	0.97	Vert(CT)	-1.35	17	>400	180	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES		WB	0.86	Horz(CT)	0.23	10	n/a	n/a		
BCLL	0.0*	Code	IRC2018/	TPI2014	Matrix-MSH								
BCDL	10.0											Weight: 231 lb	FT = 20%
UMBER			2)	Wind: ASCE	7-16; Vult=130m	ph (3-seo	cond qust)						
FOP CHORD	2x4 SP 2400F 2.0E		,	Vasd=103m	ph; TCDL=6.0psf;	BCDL=6	6.0psf; h=25ft						
BOT CHORD		2x4 SP 2400F 2.0E *Except* 18-16:2x4 SP			B; Enclosed; MWF	RS (env	elope) and C	-C					
	No.2			Exterior(2E)	-0-10-3 to 3-7-11	Interior	(1) 3-7-11 to						
VEBS	2x4 SP No.3			22-5-8, Exte	rior(2R) 22-5-8 to	26-11-6,	Interior (1)						
VEDGE	Left: 2x4 SP No.3				5-9-3 zone;C-C fo								
	Right: 2x4 SP No.3			MWFRS for reactions shown; Lumber DOL=1.60 plate									
BRACING	0			grip DOL=1.3									
TOP CHORD	Structural wood she	athing directly applie			ned for wind loads								
		2-2-0 oc purlins.			uds exposed to wi								
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc				d Industry Gable I			,					
Der onord	bracing, Except:				alified building de								
	2-2-0 oc bracing: 2-21.			4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15									
	6-0-0 oc bracing: 16-18				1.15); Pg=20.0 ps								
REACTIONS	0	-3-8, 10=1749/1-1-8			late DOL=1.15); I		ough Cat B; F	ully					
LACHONS	Max Horiz 2=73 (LC	,	-		9; Cs=1.00; Ct=1.								
	Max Grav 2=2288 (	,			snow loads have	been coi	nsidered for t	his					
00050	,		,	design.				( I'					
ORCES (Ib) - Maximum Compression/Maximum Tension					as been designed psf or 2.00 times								
FOP CHORD		1/250 2 5- 5/12/250			on-concurrent wit			51 011					
	1-2=0/20, 2-3=-5611/258, 3-5=-5443/258, 5-6=-4686/145, 6-7=-4685/144,			•	unit load placed or			0 5 9					
	,	)=-5605/258, 10-11=	,		, supported at two		,	2-0-0					in the second se
BOT CHORD	,	,			e MT20 plates uni			d				N'TH CA	Roill
BOT CHORD 2-21=-165/5245, 19-21=0/4633, 14-19=0/3703, 12-14=0/4632,					spaced at 2-0-0 c		wise indicate	su.		. (	1	A	······································
	10-12=-162/5253, 1				has been designe		load of 20	Onef		1	a.	U.FESS	Dive
	16-17=-159/0	7-10-103/0,	,		m chord in all area			opsi			$\mathbf{N} \geq$		A Real I
VEBS	15-17=-90/11, 3-21:	382/103			by 2-00-00 wide w			om			yc		Jerrin
WEBG	,	,			ny other members					-		CEA.	
	,	=-379/184, 5-21=-140/695, 9=-23/1362, 6-18=0/1563, 6-16=0/1561,			designed in acco					=		SEA	
	14-16=-23/1361, 7-14=-723/262,				Residential Code			and		=		0449	25 :
	7-12=-141/703, 5-1				nd referenced sta					1			
OTES			10	AD CASE(S)						HILLING	2		1
	ed roof live loads have	been considered for			Stanuaru						20	· En	R.A.
this design											1	C GIN	EF. ANS
uno deolgi											1	1	CEVIN
												11. M.	54.11
												in the second se	inin,
												Augus	t 27,2021
												Augus	t 27,2021



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