

RE: 2501-0707-A - The Farm at Neills Creek Lot 00.0049 Roof       818 Soundside Rd         Site Information:       Edenton, NC 27932         Project Customer: DRB Raleigh       Project Name: The Farm at Neills Creek Lot 00.0049         Lot/Block: 00.0049       Subdivision: The Farm at Neills Creek         Model: Middleton       State: NC         General Truss Engineering Criteria & Design Loads (Individual Truss Design         Drawings Show Special Loading Conditions):         Design Code: IRC2021/TPI2014       Design Program: MiTek 20/20 8.8         Wind Code: ASCE 7-16       Design Method: MWFRS (Envelope)/C-C hybrid Wind A         Wind Speed: 120 mph       Floor Load: N/A psf         Roof Load: 40.0 psf       Exposure Category: B									
No.Seal#Truss NameDateNo.Seal#1 $\vee$ VA11/22/253517091082170910823P1G1/22/253617091083170910824VC11/22/253817091084170910825VG11/22/253817091085170910826V11/22/253917091086170910827PB1G1/22/254017091087170910827PB1G1/22/254117091088170910829P11/22/254317091089170910830VA21/22/2544170910811170910832V21/22/2544170910811170910833G2G1/22/2545170910812170910833G2G1/22/2545170910813170910836C1G1/22/251717091083814170910837C11/22/251617091083717170910838VG41/22/251717170910844VG51/22/2520170910844VG51/22/2521170910844V51/22/2522170910844V61/22/2523170910846A21/22/2524170910849M21/22/2525170910849M21/22/2526170910850M2G1/22/2527170910850M2G1/22/25 </td <td>Truss Name         Date           56         VG7         1/22/25           57         V7         1/22/25           58         M1A         1/22/25           59         M1AG         1/22/25           60         VG8         1/22/25           61         VGE1         1/22/25           63         A1C         1/22/25           63         A1C         1/22/25           64         A1G         1/22/25           66         A1A         1/22/25           66         A1A         1/22/25</td> <td></td>	Truss Name         Date           56         VG7         1/22/25           57         V7         1/22/25           58         M1A         1/22/25           59         M1AG         1/22/25           60         VG8         1/22/25           61         VGE1         1/22/25           63         A1C         1/22/25           63         A1C         1/22/25           64         A1G         1/22/25           66         A1A         1/22/25           66         A1A         1/22/25								
The truss drawing(s) referenced above have been prepared in Truss Engineering Co. under my direct supervision based on provided by Structural, LLC. <b>Truss Design Engineer's Name:</b> Gilbert, Eric My license renewal date for the state of North Carolina is E <b>IMPORTANT NOTE:</b> The seal on these truss component designs that the engineer named is licensed in the jurisdiction(s) identified and the designs comply with ANSI/TPI 1. These designs are based upon parameters on the intervent of these of the state of the state of signs are based upon parameters or the design codes), will given to MiTek or TRENCO. Any project specific information included is TRENCO's customers file reference purpose only, and was not taken interpreparation of these designs. MiTek or TRENCO has not independently applicability of the design parameters or the designs for any particular but the building designer should verify applicability of design parameters and incorporate these designs into the overall building design per ANSI/TPI 1 of 1	by n the parameters December 31, 2025 is a certification the eters isch were a for MiTek's or o account in the verified the uilding. Before use, d properly I, Chapter 2. Gilbert	SEAL SEAL A. GILBERTHING January 22,2025							

Job	Truss	Truss Type	Qty	Ply	The Farm at Neills Creek Lot 00.0049 Roof	
2501-0707-A	VA1	Valley	2	1	Job Reference (optional)	170910822

3-9-11

3-10-2

Structural, LLC, Thurmont, MD - 21788

Run: 8.83 S. Dec. 4 2024 Print: 8.830 S.Dec. 4 2024 MiTek Industries. Inc. Tue. Jan 21 11:36:01 ID:fLbLuKnjBGAPkkTG3D6vJQzulyU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Plate Grip DOL 1.15 тс 0.43 Vert(LL) BC Lumber DOI 1 15 0.74 Vert(TL) Rep Stress Incr YES WB 0.00 Horiz(TL) 2014 Matrix-MP ble studs spaced at 4-0-0 oc. his truss has been designed for a live load of 20.0psf

2-2-15

2-0-0

ble requires continuous bottom chord bearing.

CSI

- is truss has been designed for a 10.0 psf bottom
- ord live load nonconcurrent with any other live loads.
- the bottom chord in all areas where a rectangle 06-00 tall by 2-00-00 wide will fit between the bottom ord and any other members.
- bearings are assumed to be SP No.3 .
- ovide mechanical connection (by others) of truss to aring plate capable of withstanding 1 lb uplift at joint 3.
- veled plate or shim required to provide full bearing face with truss chord at joint(s) 1.
- is truss has been designed for a moving concentrated d of 250.0lb live and 3.0lb dead located at all mid nels and at all panel points along the Top Chord and ttom Chord, nonconcurrent with any other live loads. LOAD CASE(S) Standard

111111111 SEAL 036322 G mmm January 22,2025

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

Scale = 1:27.8

Loading

TCLL (roof)

Snow (Pf/Pg)

TCDL		10.0	Rep Stress Incr	YES	
BCLL		0.0*	Code	IRC2021	/TPI
BCDL		10.0			
				6)	Ga
TOP CHORD	2x4 SP N	0.2		7)	Ga
BOT CHORD	2x4 SP N	0.3		8)	Thi
WEBS	2x4 SP N	0.3		-,	cho
BRACING				9)	* T
TOP CHORD	Structural 3-9-11 oc	l wood shea purlins, ex	athing directly applied cept end verticals.	, t or	on 3-0
BOT CHORD	Rigid ceili bracing.	ing directly	applied or 10-0-0 oc	10	cho All
REACTIONS	(size)	1=3-10-2,	3=3-10-2	11	) Pro
	Max Horiz	1=48 (LC	13)		bea
	Max Uplift	3=-1 (LC 1	16)	10	
	Max Grav	1=327 (LC	2 42), 3=327 (LC 41)	12	
FORCES	(lb) - Max Tension	imum Com	pression/Maximum	13	) Thi loa
TOP CHORD	1-2=-451/	77, 2-3=-28	39/63		par
BOT CHORD	1-3=-90/3	88			Bo
NOTES					

Spacing

(psf)

20.0

15 4/20 0

NOTES

- Wind: ASCE 7-16; Vult=120mph (3-second gust) 1) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 3-8-6 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
- 2) 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 3) Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.: Ce=1.0: Cs=1.00: Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) Plates checked for a plus or minus 5 degree rotation about its center.

818 Soundside Road

Edenton, NC 27932



3-9-11

DEFL

in

n/a

n/a

0.00

(loc)

3

l/defl

n/a 999

n/a

n/a n/a

L/d

999

PLATES

Weight: 14 lb

MT20

GRIP

244/190

FT = 20%

Job	Truss	Truss Type	Qty	Ply	The Farm at Neills Creek Lot 00.0049 Roof	
2501-0707-A	P1G	Monopitch Structural Gable	5	1	Job Reference (optional)	170910823

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Tue Jan 21 11:35:59 ID:XoKMwi3LJHxfk0hVDgto8QzumxO-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:21.1

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 15.4/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC20	21/TPI2014	CSI TC BC WB Matrix-MP	0.44 0.46 0.05	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.03 -0.04 0.00 0.01	(loc) 6-9 6-9 2 6-9	l/defl >999 >990 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 15 lb	<b>GRIP</b> 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 3-11-8 oc purlins. Rigid ceiling directly a bracing.	thing directly applie applied or 10-0-0 or	ed or c	<ol> <li>This truss ha load of 12.0 overhangs n</li> <li>Plates check about its cer</li> <li>Gable studs</li> <li>This truss ha chord live lo</li> <li>* This truss l on the botton</li> </ol>	as been designed f psf or 2.00 times f on-concurrent with ted for a plus or mi tter. spaced at 2-0-0 or as been designed f ad nonconcurrent has been designed n chord in all area	for great lat roof le n other li inus 5 de c. for a 10. with any I for a liv s where	er of min rool bad of 15.4 p ve loads. egree rotation 0 psf bottom other live loa e load of 20.1 a rectangle	f live sf on n ads. 0psf					
REACTIONS	Max Horiz         2=39 (LC -           Max Uplift         2=-41 (LC           Max Grav         2=349 (LC	= Mechanica 12) 12), 6=-24 (LC 12) 48), 6=335 (LC 44)	.)	3-06-00 tall l chord and a 10) Bearings are 11) Refer to gird	by 2-00-00 wide with by other members. assumed to be: J er(s) for truss to trust	oint 2 Sl	veen the bott P No.2 . nections.	om					
FORCES	(lb) - Maximum Comp Tension	pression/Maximum		12) Provide med bearing plate	hanical connection	n (by oth anding 2	ers) of truss t 4 lb uplift at i	to ioint					
TOP CHORD	1-2=0/26, 2-3=-176/4	6, 3-4=-6/0		6.		a		joint					
BOT CHORD	2-6=-42/147, 5-6=0/0	)		13) One H2.5A	Simpson Strong-Ti	e conne	ctors						
NOTES 1) Wind: ASC Vasd=95m II; Exp B; I	3-b=-294/86 CE 7-16; Vult=120mph nph; TCDL=6.0psf; BCI Enclosed; MWFRS (en	(3-second gust) DL=6.0psf; h=25ft; ( velope) and C-C	Cat.	recommende UPLIFT at jt does not cor 14) This truss ha load of 250.0	ed to connect truss (s) 2. This connect hsider lateral forces as been designed f Olb live and 3.0lb d	s to bear ion is foi s. for a mor ead loca	ing walls due uplift only an ving concentr ited at all mic	e to nd rated					10
Exterior(2)	E) -1-0-0 to 2-0-0 Interi	ior (1) 2-0-0 to 3-11	-8	panels and a	at all panel points a	along the	Top Chord a	and				11111	

- zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss 2) only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 3) Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- Bottom Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard



Page: 1

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<sup>818</sup> Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	The Farm at Neills Creek Lot 00.0049 Roof	
2501-0707-A	VC1	Valley	2	1	Job Reference (optional)	170910824

2-1-13

2-1-13

Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Tue Jan 21 11:36:02 ID:kNIKrmZA21KiPOsCM8K1zIzuQAN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

4-3-10

2-1-13



\_\_\_\_



Scale = 1:15.2

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

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 15.4/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021/TPI2014	CSI TC BC WB Matrix-AS	0.28 0.58 0.00	<b>DEFL</b> Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.01	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 13 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD NOTES 1) Unbalance	2x4 SP No.2 2x4 SP No.3 Structural wood shea Rigid ceiling directly (size) 1=4-3-10, Max Grav 1=20 (LC (lb) - Maximum Com Tension 1-2=-466/81, 2-3=-46 1-3=-56/380	athing directly applie applied. 3=4-3-10 15) 2 47), 3=339 (LC 51) pression/Maximum 66/81 been considered for	<ul> <li>9) This truss ha chord live loa</li> <li>10) * This truss h on the bottor</li> <li>3-06-00 tall b</li> <li>chord and ar</li> <li>11) All bearings.</li> <li>12) This truss ha load of 250.0</li> <li>panels and a Bottom Chor</li> <li>13) This truss de structural wo chord and 1/ the bottom c</li> <li>LOAD CASE(S)</li> </ul>	is been designed for ad nonconcurrent w has been designed in chord in all areas by 2-00-00 wide will by other members. are assumed to be is been designed for blb live and 3.0lb de it all panel points a d, nonconcurrent w sign requires that a od sheathing be ap 2" gypsum sheetro hord. Standard	or a 10.0 vith any for a liv s where Il fit betw SP No. or a move ad loca long the vith any a minim pplied di ock be ap	<ul> <li>D psf bottom</li> <li>other live loa</li> <li>e load of 20.0</li> <li>a rectangle</li> <li>veen the bottom</li> <li>3 .</li> <li>ving concentrative dat all mid</li> <li>Top Chord a</li> <li>other live loa</li> <li>um of 7/16"</li> <li>irrectly to the tipplied directly</li> </ul>	ds. )psf om ated ds. op y to					
<ul> <li>this design</li> <li>Wind: ASC</li> <li>Vasd=95n</li> <li>II; Exp B; I</li> <li>Exterior(21)</li> <li>vertical lef</li> <li>forces &amp; M</li> <li>DOL=1.60</li> <li>Truss desi</li> </ul>	n. CE 7-16; Vult=120mph nph; TCDL=6.0psf; BCI Enclosed; MWFRS (en E) zone; cantilever left t and right exposed;C-1 WFRS for reactions sl plate grip DOL=1.60 igned for wind loads in	(3-second gust) DL=6.0psf; h=25ft; C velope) and C-C and right exposed ; C for members and hown; Lumber the plane of the trus	at. end							and the	TH CA	ROUT

- 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 6) Plates checked for a plus or minus 5 degree rotation about its center.
- 7) Gable requires continuous bottom chord bearing.
- 8) Gable studs spaced at 4-0-0 oc.

SEAL 036322 A. GILBERT

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Job	Truss	Truss Type	Qty	Ply	The Farm at Neills Creek Lot 00.0049 Roof	
2501-0707-A	VG1	Valley	5	1	Job Reference (optional)	170910825

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Tue Jan 21 11:36:02 ID:xU4wHFXpOHwATdCRJnrbClztURR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:17.9

2

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

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 15.4/20.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021/TPI207	CSI TC BC WB 4 Matrix-MP	0.29 0.67 0.00	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.01	(loc) - - 3	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 14 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.3 Structural wood shea 4-3-12 oc purlins. Rigid ceiling directly bracing. (size) 1=4-3-12, Max Horiz 1=-32 (LC Max Grav 1=339 (LC (lb) - Maximum Com Tension 1-2=-389/26, 2-3=-34 1-3=-6/267	athing directly applie applied or 10-0-0 oc 3=4-3-12 14) 2 47), 3=339 (LC 51) pression/Maximum 89/26	7) Gable 8) Gable 9) This tr chord 10) * This on the 3-06-0 chord 11) All bea 12) This tr load o panels Botton LOAD CA	requires continuous bo studs spaced at 4-0-0 uss has been designed ive load nonconcurren truss has been designed bottom chord in all are 0 tall by 2-00-00 wide 'a and any other member rings are assumed to l uss has been designed 250.0lb live and 3.0lb and at all panel points of Chord, nonconcurren <b>SE(S)</b> Standard	ottom chor oc. d for a 10.0 tt with any ed for a liv asa where will fit betw 's. be SP No. d for a mov dead locas a long the tt with any	d bearing. ) psf bottom other live loa e load of 20.0 a rectangle veen the botto 3. ving concentr ted at all mid Top Chord a other live loa	ids. Opsf om rated I and ids.					
NOTES 1) Unbalance this design 2) Wind: AS Vasd=95r II; Exp B; Exterior(2 vertical lef forces & N DOL=1.60 2) True des	ed roof live loads have n. CE 7-16; Vult=120mph mph; TCDL=6.0psf; BCI Enclosed; MWFRS (en E) zone; cantilever left ft and right exposed;C- WWFRS for reactions sl 0 plate grip DOL=1.60	been considered for (3-second gust) DL=6.0psf; h=25ft; C velope) and C-C and right exposed ; C for members and hown; Lumber	Cat. end							A LAND	ORTH CA	ROLIN

- 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 4) Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) Plates checked for a plus or minus 5 degree rotation about its center.



Page: 1

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Job	Truss	Truss Type	Qty	Ply	The Farm at Neills Creek Lot 00.0049 Roof	
2501-0707-A	V1	Valley	3	1	Job Reference (optional)	26

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Tue Jan 21 11:36:00 ID:YNNde149kU0MJ91zCUHpfkzumoK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

# 4-7-4

Page: 1



Scale = 1:20.2

Plate Offsets (X	, Y):	[2:0-2-8,0-2-0], [3:0-2-8,0-2-0]
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Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 20.4/20.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021/TPI2	CSI TC BC WB 2014 Matrix-MP	0.27 0.23 0.05	<b>DEFL</b> Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 6	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 17 lb	<b>GRIP</b> 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD WEBS NOTES 1) Unbalancc this desig 2) Wind: AS( Vasd=95n II; Exp B; Exterior(2 vertical lei forces & N DOL=1.60 3) TCLL: AS Plate DOL 1.15 Plate Exp.; Ce=	2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 Structural wood sheat 4-7-4 oc purlins, exc 2-0-0 oc purlins: 2-3. Rigid ceiling directly bracing. (size) 1=4-7-12, 6=4-7-12 Max Horiz 1=-20 (LC Max Uplift 1=-5 (LC 5=324 (LC (lb) - Maximum Com Tension 1-2=-183/126, 2-3=- 1-6=-44/117, 5-6=-5 2-6=-255/22, 3-5=-2! ed roof live loads have n. CE 7-16; Vult=120mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (en E) zone; cantilever left t and right exposed;C-1 MWFRS for reactions sl 0 plate grip DOL=1.60 CE 7-16; Pr=20.0 psf; ( ==1.15); Pg=20.0 psf; ( ==0.0; ct=1.10; ct=1.1	athing directly applied ept applied or 6-0-0 oc 4=4-7-12, 5=4-7-12, 76), 4=-5 (LC 73) 72), 4=275 (LC 73) 25), 6=324 (LC 84) pression/Maximum 13/54, 3-4=-183/126 4/26, 4-5=-44/117 55/22 been considered for (3-second gust) DL=6.0psf; h=25ft; C velope) and C-C and right exposed ; e C for members and hown; Lumber roof LL: Lum DOL=1 ?f=20.4 psf (Lum DOI Rough Cat B; Partiall Lu=50-0-0	5) Prov 6) Plat about 7) Gab 8) This chor 9) * Th on ti 3-06 chon 10) All b 11) Prov beau and 12) Bev surf: 13) This load pan- Bott LOAD C at.	vide adequate drainage tes checked for a plus of ut its center. De requires continuous a truss has been design to live load nonconcurr its truss has been design he bottom chord in all a 5-00 tall by 2-00-00 wid rd and any other memb bearings are assumed to vide mechanical conner ring plate capable of wid 5 lb uplift at joint 4. eled plate or shim requi ace with truss chord at a truss has been design d of 250.0lb live and 3.0 els and at all panel poi tom Chord, nonconcurr phical purlin representa he orientation of the pur om chord. <b>CASE(S)</b> Standard	to prevent i or minus 5 de bottom chor led for a 10.0 ent with any ned for a liv areas where e will fit betw ers. o be SP No. ction (by oth thstanding 5 irred to provii joint(s) 1, 4. ed for a mov lb dead loca ths along the ent with any tion does not fin along the	vater ponding gree rotation d bearing. ) psf bottom other live load e load of 20.0 a rectangle veen the botto 3. ers) of truss t lb uplift at joi de full bearing ving concentra ted at all mid Top Chord a other live load to depict the s top and/or	g. ds. opsf om int 1 g ated ds. iize				SEA 0363	ROUL L 22 BERNIN	in Woundary

- 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- 4) Unbalanced snow loads have been considered for this design.

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January 22,2025

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Job	Truss	Truss Type	Qty	Ply	The Farm at Neills Creek Lot 00.0049 Roof	
2501-0707-A	PB1G	Piggyback	3	1	Job Reference (optional)	170910827

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Tue Jan 21 11:35:59 ID:YB4nRKlqtXQQ4d8zieKejYzun1X-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

2-10-8

Page: 1





2-10-8

3-9-11 0-9-8 0-3-8

Scale = 1:32.8

2)

# Plate Offsets (X, Y): [2:0-2-13,Edge]

Loading         (psf)         Spacing         2-0-0         CSI         DEFL         in         (loc)         I/defl         L/d         PLATES         GRIP           TCLL (roof)         20.0         Plate Grip DOL         1.15         TC         0.21         Vert(LL)         n/a         -         n/a         999         MT20         244/190           Snow (Pf/Pg)         15.4/20.0         Lumber DOL         1.15         BC         0.35         Vert(TL)         n/a         -         n/a         999         MT20         244/190           TCDL         10.0         Rep Stress Incr         YES         WB         0.05         Horiz(TL)         0.00         7         n/a         n/a         999         FT = 20%           3CDL         10.0         Code         IRC2021/TPI2014         Matrix-AS         Verticities         Vertici	
<ul> <li>UMBER TOP CHORD 2x4 SP No.3</li> <li>STCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15; Pg=20.0 psf. (roof LL: Lum DOL=1.15 Plate DOL=1.16; Pg=20.0 psf. (roof LL: Lum DOL=1.15 Plate DOL=1.60; Psf24.12, Cz=4.11.2, Cz=4.12, Cz=</li></ul>	annan Martin Martin and Anna Anna Anna Anna Anna Anna Anna

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



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Job	Truss	Truss Type	Qty	Ply	The Farm at Neills Creek Lot 00.0049 Roof	
2501-0707-A	PB1	Piggyback	29	1	Job Reference (optional)	170910828

Structural LLC Thurmont MD - 21788

2-10-8

4-10-11

4-11-2

7 [2 q

2x4 II

2-10-

Run: 8.83 S. Dec. 4 2024 Print: 8.830 S.Dec. 4 2024 MiTek Industries. Inc. Tue. Jan 21 11:35:59 ID:IT10YFBB\_mlhVFyEgFgXsfzun1g-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

#### 10 4x4 =2x4 =4-10-11 0-9-8 4-7-3 -3-9-11 0-9-8 0-3-8 Scale = 1:38.4 Plate Offsets (X, Y): [2:0-0-9,Edge] Loading Spacing 2-0-0 CSI DEFL l/defl L/d PLATES (psf) in (loc) TCLL (roof) 20.0 Plate Grip DOL 1.15 TC 0.46 Vert(LL) 999 MT20 n/a n/a Snow (Pf/Pg) 15.4/20.0 Lumber DOL 1.15 BC 0.73 Vert(TL) n/a n/a 999 TCDL Rep Stress Incr WB 0.00 Horiz(TL) 5 10.0 YES 0.00 n/a n/a BCLL 0.0 IRC2021/TPI2014 Matrix-AS Code BCDL 10.0 Weight: 18 lb LUMBER 4) Unbalanced snow loads have been considered for this TOP CHORD 2x4 SP No 2 desian. BOT CHORD 2x4 SP No 3 5) Plates checked for a plus or minus 5 degree rotation WEBS 2x4 SP No.3 about its center. Gable requires continuous bottom chord bearing. 6) BRACING 7) Gable studs spaced at 4-0-0 oc. TOP CHORD Structural wood sheathing directly applied, 8) This truss has been designed for a 10.0 psf bottom except end verticals. chord live load nonconcurrent with any other live loads. BOT CHORD Rigid ceiling directly applied. \* This truss has been designed for a live load of 20.0psf 9) **REACTIONS** (size) 1=4-11-2, 2=4-11-2, 4=4-11-2, on the bottom chord in all areas where a rectangle 5 = 4 - 11 - 23-06-00 tall by 2-00-00 wide will fit between the bottom Max Horiz 1=65 (LC 15) chord and any other members. 1=-418 (LC 48), 2=-11 (LC 16), Max Uplift 10) All bearings are assumed to be SP No.3 . 4=-1 (LC 13) 11) Bearing at joint(s) 2, 4, 1, 5, 2 considers parallel to grain Max Grav 1=133 (LC 40), 2=698 (LC 48), value using ANSI/TPI 1 angle to grain formula. Building 4=315 (LC 51) designer should verify capacity of bearing surface. FORCES (Ib) - Maximum Compression/Maximum 12) Provide mechanical connection (by others) of truss to Tension bearing plate capable of withstanding 1 lb uplift at joint 4 TOP CHORD 1-2=-198/254, 2-3=-96/201, 4-5=0/0, and 418 lb uplift at joint 1. 3-4=-284/63 13) N/A BOT CHORD 2-4=-222/48 NOTES Wind: ASCE 7-16; Vult=120mph (3-second gust) 1) 14) This truss has been designed for a moving concentrated Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C load of 250.0lb live and 3.0lb dead located at all mid Exterior(2E) 0-3-11 to 3-3-11, Interior (1) 3-3-11 to 4-9-6 panels and at all panel points along the Top Chord and zone; cantilever left and right exposed ; end vertical left Bottom Chord, nonconcurrent with any other live loads. and right exposed;C-C for members and forces & 15) This truss design requires that a minimum of 7/16" MWFRS for reactions shown; Lumber DOL=1.60 plate structural wood sheathing be applied directly to the top grip DOL=1.60 chord and 1/2" gypsum sheetrock be applied directly to 2) Truss designed for wind loads in the plane of the truss the bottom chord. only. For studs exposed to wind (normal to the face), 16) See Standard Industry Piggyback Truss Connection see Standard Industry Gable End Details as applicable, Detail for Connection to base truss as applicable, or or consult qualified building designer as per ANSI/TPI 1. consult qualified building designer. TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 3) LOAD CASE(S) Standard Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

mmm January 22,2025

GRIP

244/190

FT = 20%

Page: 1

818 Soundside Road

Edenton, NC 27932

SEAL

36322

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Job	Truss	Truss Type	Qty	Ply	The Farm at Neills Creek Lot 00.0049 Roof	
2501-0707-A	P1	Monopitch	20	1	Job Reference (optional)	170910829



Scale = 1:22.4

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

	., .). [=												
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)	-0.07	6-9	>769	360	MT20	244/190	
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.10	6-9	>564	240			
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	2	n/a	n/a			
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.04	6-9	>999	240			
BCDL	10.0										Weight: 19 lb	FT = 20%	
LUMBER			6) This truss h	as been designe	ed for a 10.0	) psf bottom							
TOP CHORD	2x4 SP No.2		chord live lo	ad nonconcurre	nt with any	other live loa	ads.						
BOT CHORD	2x4 SP No.2		<ol><li>7) * This truss</li></ol>	has been desigr	ned for a liv	e load of 20.	0psf						
WEBS	2x4 SP No.3		on the botto	m chord in all ar	reas where	a rectangle							
BRACING			3-06-00 tall	by 2-00-00 wide	e will fit betw	een the bott	om						

WEBS	2x4 SP N	0.3		on
BRACING				3-0
TOP CHORD	Structura	wood sheathing directly applied.		ch
BOT CHORD	Rigid ceil	ing directly applied.	8)	Be
REACTIONS	(size)	2=0-3-0, 6= Mechanical	9)	Re
	<b></b>		10)	Pro

	Max Honz	2=46 (LC 12)
	Max Uplift	2=-46 (LC 12), 6=-32 (LC 12)
	Max Grav	2=369 (LC 42), 6=356 (LC 44)
FORCES	(lb) - Max	imum Compression/Maximum
	Tension	
TOP CHORD	1-2=0/26,	2-3=-193/49, 3-4=-6/0
BOT CHORD	2-6=-63/1	66, 5-6=0/0
WEBS	3-6=-305/	/110

NOTES

1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 4-11-8 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.: Ce=1.0: Cs=1.00: Ct=1.10

- Unbalanced snow loads have been considered for this 3) design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads
- Plates checked for a plus or minus 5 degree rotation 5) about its center.

- 06-00 tall by 2-00-00 wide will fit between the bottom ord and any other members.
- earings are assumed to be: Joint 2 SP No.2 .
- efer to girder(s) for truss to truss connections.
- ovide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint
- 11) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 12) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads. 13) This truss design requires that a minimum of 7/16"
- structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- LOAD CASE(S) Standard



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Job	Truss	Truss Type	Qty	Ply	The Farm at Neills Creek Lot 00.0049 Roof	
2501-0707-A	VA2	Valley	2	1	Job Reference (optional)	170910830

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Tue Jan 21 11:36:02 ID:Qt4NZ3tkJjAHhz4oXuFne6zulyM-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:32.9

		-			-								
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 15.4/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021/	TPI2014	<b>CSI</b> TC BC WB Matrix-AS	0.44 0.79 0.07	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 24 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 2x4 SP No.3 2x4 SP No.3 Structural wood she except end verticals Rigid ceiling directly (size) 1=6-1-9, 4 Max Horiz 1=78 (LC Max Uplift 1=-89 (LC (LC 16) Max Grav 1=248 (LC 5=411 (LC	athing directly applie applied. 4=6-1-9, 5=6-1-9 15) 2 49), 4=-3 (LC 13), 5 C 47), 4=316 (LC 53) C 52)	4) 5) 6) 7) d, 8) 9) s=-21 10) , 11)	Unbalanced design. Plates check about its cen Gable requir. Gable studs This truss ha chord live loa * This truss h on the bottor and ar All bearings : Bearing at jo using ANSI/7 designer sho	snow loads have ed for a plus or n ter. es continuous bo spaced at 4-0-0 o is been designed ad nonconcurrent nas been designed ad nonconcurrent nas been designe n chord in all area y 2-00-00 wide v y 2-00-00 wide v y other members are assumed to b int(s) 1, 1 consid PPI 1 angle to gra uld verify capacit	been cor ninus 5 de ttom chor oc. for a 10.0 for a 10.0 di for a liv as where vill fit betw s. pe SP No. ers parall in formula y of bear	asidered for the sidered for t	his n dds. 0psf om lue					
FORCES TOP CHORD BOT CHORD WEBS NOTES 1) Wind: AS	(lb) - Maximum Com Tension 1-2=-184/138, 2-3=- 1-5=-47/51, 4-5=-47, 2-5=-378/172 CE 7-16; Vult=120mph	pression/Maximum 104/77, 3-4=-284/79 /51 (3-second gust)	12) 13)	Provide mec bearing plate 1, 3 lb uplift a at joint 1. This truss ha load of 250.0 panels and a Bottom Chor	hanical connectic capable of withs at joint 4, 21 lb up as been designed blb live and 3.01b it all panel points d popeogram	on (by oth standing 8 blift at join for a mov dead loca along the	ers) of truss t 9 lb uplift at j t 5 and 89 lb ving concentr ted at all mid Top Chord a other live loa	to joint uplift rated l and				mmm	9997
Vasd=95r II; Exp B; Exterior(2 5-11-13 z vertical le forces & I DOL=1.60 2) Truss des	mpn; 1CDL=b.UpSt; BC Enclosed; MWFRS (er E2) 0-6-15 to 3-6-15, Int cone; cantilever left and fft and right exposed;C- MWFRS for reactions s 0 plate grip DOL=1.60 signed for wind loads in	DL=6.0psr; n=25ft; C ivelope) and C-C terior (1) 3-6-15 to right exposed ; end C for members and hown; Lumber the plane of the trus	,at. 14) LOA	This truss de structural wo chord and 1/ the bottom cl AD CASE(S)	sign requires tha od sheathing be 2" gypsum sheet hord. Standard	applied d rock be a	um of 7/16" rectly to the oplied directly	top y to		A.	A.L.	OR FESS	ROUN

- 2) only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL= 3)
- 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10



Page: 1

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Job	Truss	Truss Type	Qty	Ply	The Farm at Neills Creek Lot 00.0049 Roof	
2501-0707-A	VG2	Valley	5	1	Job Reference (optional)	170910831

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Tue Jan 21 11:36:02 ID:Eq?ZlecCkRoApiEnDITE\_mztURK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



6-7-12

Scale = 1:22.3

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 15.4/20.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021	I/TPI2014	CSI TC BC WB Matrix-MP	0.40 0.53 0.08	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 27 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 Structural wood she 6-0-0 oc purlins. Rigid ceiling directly bracing. (size) 1=6-7-12, Max Horiz 1=-50 (LC Max Uplift 1=-38 (LC Max Grav 1=275 (LC 4=493 (LC	athing directly applie applied or 6-0-0 oc 3=6-7-12, 4=6-7-12 ; 12) ; 45), 3=-38 (LC 44) ; 47), 3=275 (LC 51) ; 45)	4) 5) d or 6) 7) 8) 9) 10	TCLL: ASCE Plate DOL= 1.15 Plate D Exp.; Ce=1. Unbalanced design. Plates checl about its cer Gable requii Gable studs This truss ha chord live lo ) * This truss on the botto	$F_{1,1}$ Pr=20.0 p $F_{1,1}$ Pr=20.0 p OL = 1.15; Pg=20.0 p OL = 1.15; Is=1 $C_{1,1}$ Signal Constant $C_{2,1}$ Con	osf (roof LL sf; Pf=15.4 1.0; Rough 1.10 e been cor minus 5 de ottom chor oc. d for a 10.0 t with any led for a liv eas where	: Lum DOL= psf (Lum DO Cat B; Partia sidered for t egree rotation d bearing. ) psf bottom other live loa e load of 20. a rectangle	-1.15 OL = ally his n ads. Opsf					
FORCES	(lb) - Maximum Com Tension 1-2=-211/224, 2-3=- 1-4=-143/132, 3-4=-	pression/Maximum 211/224 143/132	11 12	chord and a All bearings Provide med	are assumed to	be SP No.	3 . ers) of truss	to					

WEBS 2-4=-374/85

# NOTES

- Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-4 to 3-0-4, Interior (1) 3-0-4 to 3-4-2, Exterior(2R) 3-4-2 to 6-4-2, Interior (1) 6-4-2 to 6-8-0 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
- 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.

- (2) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint 1 and 38 lb uplift at joint 3.
- 13) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard



Page: 1

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Job	Truss	Truss Type	Qty	Ply	The Farm at Neills Creek Lot 00.0049 Roof	
2501-0707-A	V2	Valley	3	1	Job Reference (optional)	170910832

3-5-14

# Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Tue Jan 21 11:36:00 ID:NXkuv48wJKmV14U7YIODu?zumoE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:22.8

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 15.4/20.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021	/TPI2014	<b>CSI</b> TC BC WB Matrix-MP	0.43 0.57 0.09	<b>DEFL</b> Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 28 lb	<b>GRIP</b> 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 Structural wood she 6-11-4 oc purlins. Rigid ceiling directly bracing. (size) 1=6-11-12 Max Horiz 1=-53 (LC Max Uplift 1=-46 (LC (LC 16) Max Grav 1=272 (LC 4=522 (LC	athing directly applie applied or 6-0-0 oc 2, 3=6-11-12, 4=6-1 <sup>-</sup> 2 12) 2 45), 3=-46 (LC 44), 2 47), 3=272 (LC 51 2 45)	4) 5) ed or 6) 7) 1-12 8) 9) 4=-1 10)	TCLL: ASCE Plate DOL=1 1.15 Plate DO Exp.; Ce=1.0 Unbalanced s design. Plates check about its cemi Gable require Gable studs s This truss ha chord live loa * This truss h on the bottom 3-06-00 tall b chord and an	7-16; Pr=20.0 p 15); Pg=20.0 ps DL = 1.15); Is=1. ; Cs=1.00; Ct=1 snow loads have ed for a plus or r ter. as continuous bo spaced at 4-0-0 s been designed d nonconcurren as been designed n chord in all are y 2-00-00 wide	sf (roof LL sf; Pf=15.4. 0; Rough 10 been cor ninus 5 de totom chor oc. I for a 10.0 t with any ed for a liv as where will fit betv	: Lum DOL=1 psf (Lum DC Cat B; Partial isidered for the egree rotation d bearing. ) psf bottom other live loac e load of 20.0 a rectangle veen the botto	I.15 DL = Ily nis ds. ppsf						
FORCES TOP CHORD BOT CHORD WEBS NOTES	(lb) - Maximum Com Tension 1-2=-208/242, 2-3=- 1-4=-151/170, 3-4=- 2-4=-401/215	pression/Maximum 208/242 151/170	11) 12) 13)	All bearings a Provide mech bearing plate 1, 46 lb uplift Beveled plate surface with t	are assumed to l nanical connecti capable of with at joint 3 and 1 or shim require truss chord at joi	be SP No. on (by oth standing 4 b uplift at d to provi nt(s) 1, 3.	3 . ers) of truss to 6 lb uplift at jo joint 4. de full bearing	o pint						

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 3-5-14, Exterior(2R) 3-5-14 to 6-3-5, Interior (1) 6-3-5 to 6-11-12 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.
- This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
   LOAD CASE(S) Standard



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Job	Truss	Truss Type	Qty	Ply	The Farm at Neills Creek Lot 00.0049 Roof	
2501-0707-A	G2G	Monopitch Supported Gable	5	1	Job Reference (optional)	170910833

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Tue Jan 21 11:35:57 ID:4EwX6EHiXJfKLYvveOBUkjzumvp-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:37.8

			-										
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 15.4/20.0 10.0 0.0*	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2027	I/TPI2014	<b>CSI</b> TC BC WB Matrix-AS	0.23 0.25 0.11	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 8	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20	<b>GRIP</b> 244/190
LUMBER TOP CHORD BOT CHORD WEBS OTHERS SLIDER BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 Left 2x4 SP No.3 Left 2x4 SP No.3 Structural wood she Rigid ceiling directly (size) 2=8-11-8, 10=8-11-4 13=8-11-4 13=8-11-4 (L Max Horiz 2=124 (LC Max Uplift 8=-63 (LC 10=-60 (L 12=-3 (LC 9=61 (LC 11=335 (L 13=368 (L)	I-6-0 athing directly applied applied. 8=8-11-8, 9=8-11-8, 3, 11=8-11-8, 12=8-17 3 C 16) C 44), 9=-231 (LC 57), C 56), 11=-14 (LC 16) C 59), 8=113 (LC 45), 56), 10=415 (LC 57), LC 63), 12=321 (LC 6 LC 61)	2) 3) 1. 4) 1-8, 5) (), 7) 8) 9) 2), 10	<ol> <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=15.4 psf (Lum DOL= 1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10</li> <li>Unbalanced snow loads have been considered for this design.</li> <li>This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.</li> <li>Plates checked for a plus or minus 5 degree rotation about its center.</li> <li>Gable requires continuous bottom chord bearing.</li> <li>Gable studs spaced at 2-0-0 oc.</li> <li>This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.</li> </ol>								vveignt: 54 ib	F1 = 20%
TOP CHORD	(ib) - Maximum Con Tension 1-2=0/41, 2-4=-260/	137, 4-5=-176/81,	11	3-06-00 tall b chord and ar All bearings ;	by 2-00-00 wide wi by other members. are assumed to be	e SP No.	veen the botto 2 .	om				TH CA	ROUT
BOT CHORD WEBS	2-13=0/0, 12-13=0/0 9-10=0/0 6-11=-282/130, 5-12 4-13=-306/151 7-10	9/00, 7-8=-35/57 0, 11-12=0/0, 10-11=0 2=-279/88, 0=-199/57	/0, 12	) Provide mec bearing plate 9, 63 lb uplift joint 12, 32 lk	hanical connectior capable of withsta at joint 8, 14 lb up puplift at joint 13 a	n (by oth anding 2 plift at joi and 60 lb	ers) of truss to 31 lb uplift at nt 11, 3 lb upl uplift at joint	o joint lift at 10.		4	i	OFESS	Mar 2
NOTES 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) -1-0-0 to 2-0-0, Exterior(2N) 2-0-0 to 8-11-8 zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60				<ul> <li>13) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.</li> <li>14) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the top the bottom chord.</li> <li>LOAD CASE(S) Standard</li> </ul>								EER.K	

January 22,2025

🛦 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
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building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing
is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the
fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org
and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

ENGINEERING BY A MITEK Affiliate

Job	Truss	Truss Type	Qty	Ply	The Farm at Neills Creek Lot 00.0049 Roof	
2501-0707-A	VG3	Valley	5	1	Job Reference (optional)	170910834

4-6-2

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Tue Jan 21 11:36:02 ID:b3LuNAt?ZCa2S4v0WNsOtPztUR\_-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:26.7

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 15.4/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021	I/TPI2014	CSI TC BC WB Matrix-MP	0.62 0.83 0.21	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.01	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 37 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 Structural wood she 8-11-12 oc purlins. Rigid ceiling directly bracing. (size) 1=8-11-12 Max Horiz 1=-69 (LC Max Uplift 1=-77 (LC 4=-16 (LC Max Grav 1=262 (LC 4=685 (LC	athing directly applie applied or 6-0-0 oc 2, 3=8-11-12, 4=8-1 2 12) 2 45), 3=-77 (LC 44) 2 16) 2 47), 3=262 (LC 51 2 2)	4) 5) ed or 6) 7) 1-12 9) , 10 ),	TCLL: ASCE Plate DOL=1 1.15 Plate D Exp.; Ce=1.0 Unbalanced design. Plates check about its cen Gable requir Gable studs This truss ha chord live loa ) * This truss f on the bottor 3-06-00 tall t chord and ar	7-16; $Pr=20.0 $ (15); $Pg=20.0 $ POL = 1.15); $Is=1(Calcel of the second of the sec$	osf (roof LL sf; Pf=15.4 1.0; Rough 1.10 e been cor minus 5 de ottom chor oc. d for a 10.0 t with any ued for a liv eas where will fit betw rs	: Lum DOL= psf (Lum DC Cat B; Partia sidered for t agree rotation d bearing. psf bottom other live loa e load of 20. a rectangle reen the bott	1.15 DL = ally his n ads. Opsf om					
FORCES	(lb) - Maximum Com Tension 1-2=-194/330 2-3=-	pression/Maximum	11 12	) All bearings ) Provide mec	are assumed to hanical connect	be SP No.	3. ers) of truss f	to					

1-4=-255/132, 3-4=-255/132 BOT CHORD WEBS 2-4=-639/159 NOTES

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

- Wind: ASCE 7-16; Vult=120mph (3-second gust) 2) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-4 to 3-0-4, Interior (1) 3-0-4 to 4-6-2, Exterior(2R) 4-6-2 to 7-6-2, Interior (1) 7-6-2 to 9-0-0 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
- 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.

- bearing plate capable of withstanding 77 lb uplift at joint 1, 77 lb uplift at joint 3 and 16 lb uplift at joint 4.
- 13) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.

LOAD CASE(S) Standard



Page: 1

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Job	Truss	Truss Type	Qty	Ply	The Farm at Neills Creek Lot 00.0049 Roof	
2501-0707-A	V3	Valley	3	1	Job Reference (optional)	170910835

1-7-14

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Tue Jan 21 11:36:00 ID:kVXnynC38sOo8rM4LI\_Ob3zumo9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:27.3

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 15.4/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC202	21/TPI2014	CSI TC BC WB Matrix-MS	0.58 0.86 0.22	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.01	(loc) - - 4	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 38 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 Structural wood she 9-3-4 oc purlins. Rigid ceiling directly bracing. (size) 1=9-3-12, Max Horiz 1=71 (LC Max Uplift 1=-65 (LC (LC 16) Max Grav 1=266 (LC 4=683 (LC	athing directly applie applied or 6-0-0 oc 3=9-3-12, 4=9-3-12 13) 5 54), 3=-65 (LC 53) C 47), 3=266 (LC 51 C 2)	4 5 ed or 6 7 8 9 9 , 4=-4 1 ),	<ul> <li>TCLL: ASCE Plate DOL=1</li> <li>1.15 Plate DO Exp.; Ce=1.0</li> <li>Unbalanced design.</li> <li>Plates check about its cen</li> <li>Gable require</li> <li>Gable studs</li> <li>This truss ha chord live loa</li> <li>* This truss for on the bottor 3-06-00 tall b</li> </ul>	7-16; $Pr=20.0 \text{ ps}$ .15); $Pg=20.0 \text{ psf}$ OL = 1.15); $Is=1.0); Cs=1.00; Ct=1.1snow loads haveed for a plus or mter.es continuous botspaced at 4-0-0 ois been designedad nonconcurrenthas been designedn chord in all areaby 2-00-00 wide w$	f (roof LL ; Pf=15.4 ); Rough IO been cor inus 5 de tom chor c. for a 10.0 with any d for a liv is where ill fit betw	: Lum DOL=1 psf (Lum DC Cat B; Partial sidered for th egree rotation d bearing. ) psf bottom other live load e load of 20.0 a rectangle veen the botto	l.15 )L = Iy iis ds. Ipsf					
FORCES TOP CHORD BOT CHORD WEBS	(lb) - Maximum Com Tension 1-2=-210/306, 2-3=- 1-4=-204/182, 3-4=- 2-4=-606/268	<ul> <li>in Compression/Maximum</li> <li>in Compression/Maximum</li> <li>in 2-3=-210/306</li> <li>in 3-4=-204/182</li> <li>in Compression/Maximum</li> <li>in</li></ul>											

#### NOTES

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

- Wind: ASCE 7-16; Vult=120mph (3-second gust) 2) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 4-7-14, Exterior(2R) 4-7-14 to 7-7-14, Interior (1) 7-7-14 to 9-3-12 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 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.

- 13) Beveled plate or shim required to provide full bearing
- surface with truss chord at joint(s) 1, 3.
- 14) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads. LOAD CASE(S) Standard



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Job	Truss	Truss Type	Qty	Ply	The Farm at Neills Creek Lot 00.0049 Roof	
2501-0707-A	C1G	Common Supported Gable	2	1	Job Reference (optional)	336

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Tue Jan 21 11:35:56 ID:N3sly?TjFN\_TcZ\_v5EjxJnzuQBn-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



10-4-0

Scale =	1:40
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Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 15.4/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021	/TPI2014	<b>CSI</b> TC BC WB Matrix-AS	0.37 0.46 0.13	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.06 -0.07 0.01 0.02	(loc) 14-15 14-15 10 14-15	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 53 lb
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 Structural wood sheat except end verticals. Rigid ceiling directly (size) 10=0-3-0, Max Horiz 16=-76 (Lt Max Grav 10=481 (L	athing directly applie applied. 16=0-3-0 C 14) C 24). 16=481 (LC 2	3) 4) d, 5) 6)	Truss design only. For stu see Standard or consult qu TCLL: ASCE Plate DOL=1 1.15 Plate D Exp.; Ce=1.0 Unbalanced Unbalanced design. This truss ha load of 12.0	ed for wind load: ids exposed to w d Industry Gable valified building d r7-16; Pr=20.0 p .15); Pg=20.0 ps OL = 1.15); Is=1. b; Cs=1.00; Ct=1 snow loads have us been designed psf or 2.00 times or 2.00 times	s in the pla ind (norm End Deta esigner as sf (roof LL sf; Pf=15.4 0; Rough 10 been cor I for great flat roof lu th other lit	ane of the tru lal to the face ils as applicas s per ANSI/T :: Lum DOL= 4 psf (Lum DO Cat B; Partia nsidered for t er of min rooi oad of 15.4 p	iss ble, PI 1. 1.15 DL = illy his f live sf on				
FORCES	(lb) - Maximum Com Tension	pression/Maximum	7)	Plates check	ed for a plus or r	ninus 5 de	egree rotation	ו				
TOP CHORD	2-16=-429/176, 1-2= 3-4=-394/174, 4-5=-4 6-7=-394/174, 7-8=-4 8-10=-429/176	0/52, 2-3=-420/155, 405/211, 5-6=-405/2 420/155, 8-9=0/52,	8) 11, 9) 10)	Truss to be f braced agair Gable studs	ully sheathed fro ast lateral movem spaced at 2-0-0	m one fac hent (i.e. d oc.	ce or securely liagonal web)	/ ).				
BOT CHORD	15-16=-61/306, 14-1 13-14=-61/306, 12-1 11-12=-61/306, 10-1	5=-61/306, 3=-61/306, 1=-61/306	11)	chord live loa * This truss h on the bottor	ad nonconcurren nas been designe n chord in all are	t with any ed for a liv as where	other live loa e load of 20. a rectangle	ids. Opsf				
WEBS	5-13=-128/329, 4-14 3-15=-127/121, 6-12 7-11=-127/121	=-143/106, =-143/106,	12)	3-06-00 tall t chord and ar All bearings	by 2-00-00 wide way other member are assumed to b	will fit betv s. be SP No.	veen the bott	om				WITH CA

### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 5-2-0, Exterior(2R) 5-2-0 to 8-2-0, Interior (1) 8-2-0 to 11-4-0 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 13) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 14) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



Page: 1

GRIP 244/190

FT = 20%

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Job	Truss	Truss Type	Qty	Ply	The Farm at Neills Creek Lot 00.0049 Roof		
2501-0707-A	C1	Common	10	1	I70910837 Job Reference (optional)		

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Tue Jan 21 11:35:55 ID:?0xid1awRyoqMLvtJPvpsNzuQCw-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



1	5-2-0	10-4-0	
[	5-2-0	5-2-0	

Plate Offsets (X, Y):	[2:0-3-0,0-0-3], [6:0-3-5,0-0-3]
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Scale = 1:41.1

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<b>Loading</b> TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 15.4/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021	I/TPI2014	<b>CSI</b> TC BC WB Matrix-AS	0.53 0.63 0.13	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.08 -0.09 0.01 0.02	(loc) 8-11 8-11 2 8-11	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 48 lb	<b>GRIP</b> 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING TOP CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD WEBS NOTES 1) Unbalance this design 2) Wind: ASC Vasd=95r II; Exp B; E Exterior(2E Exterior(2E Exterior(2E Exterior(2E Exterior(2E Exterior(2E Exterior(2E Exterior(2E) Cone; cant and right e members a Lumber DO 3) TCLL: ASC Plate DOL	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Left 2x4 SP No.3 1 1-6-0 Structural wood sheat Rigid ceiling directly (size) 2=0-3-0, 6 Max Horiz 2=-66 (LC Max Grav 2=486 (LC (Ib) - Maximum Comp Tension 1-2=0/45, 2-4=-526/2 6-7=0/45 2-8=-75/326, 6-8=-85 4-8=-88/349 ad roof live loads have b. E7 -16; Vult=120mph nph; TCDL=6.0psf; BCI Enclosed; MWFRS (en b) -1-0-0 to 2-0-0, Interi ilever left and right exp exposed; porch left and and forces & MWFRS for DL=1.60 plate grip DDI CE 7-16; Pr=20.0 psf; for =1.15); Pg=20.0 psf; for	-6-0, Right 2x4 SP N athing directly applied applied. i=0-3-0 14) 2 23), 6=486 (LC 24) pression/Maximum 206, 4-6=-526/206, 5/326 been considered for (3-second gust) DL=6.0psf; h=25ft; C velope) and C-C ior (1) 2-0-0 to 5-2-0 or (1) 8-2-0 to 11-4-( iosed ; end vertical le right exposed;C-C f for reactions shown; L=1.60 roof LL: Lum DOL=1: f=15.4 psf (Lum DO)	5) 6) 10.3 7) d. 8) 9) 10] 11] LC at. , ) ft or 15 =	This truss ha load of 12.0 overhangs n Plates check about its cen This truss ha chord live loa * This truss h on the bottor 3-06-00 tall k chord and ar All bearings ) This truss ha load of 250.0 panels and a Bottom Chor ) This truss de structural wo chord and 1/ the bottom c <b>AD CASE(S)</b>	s been designed sof or 2.00 times f on-concurrent with ed for a plus or m ter. s been designed ad nonconcurrent has been designed n chord in all area by 2-00-00 wide s been designed lb live and 3.0lb of t all panel points a d, nonconcurrent sign requires that of sheathing be a 2" gypsum sheetr hord. Standard	for greate for greate fat roof la for a 10.0 with any d for a liv s where ill fit betw for a mov for a mov for a mov for a mov dead loca along the with any t a minim applied di ock be ap	er of min roof aad of 15.4 p re loads. agree rotation other live loa e load of 20.1 a rectangle veen the bott 2. Ving concentri ted at all mic Top Chord a other live loa um of 7/16" rectly to the oplied directly	f live f live sef on n ads. Opsf tom rated d and ads. top y to				SEA 0363	ROUNT	Manunu

1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

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

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818 Soundside Road Edenton, NC 27932

A. GILBE

January 22,2025

A. GILD

Job	Truss	Truss Type	Qty	Ply	The Farm at Neills Creek Lot 00.0049 Roof	
2501-0707-A	VG4	Valley	5	1	Job Reference (optional)	170910838

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Tue Jan 21 11:36:03 ID:3WQh9K5IKjrVcrITZ9BccCztUQi-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

5

3x4、







5-8-2

1	1-3-	12
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- ·		
Scale	=	1.42.9

II; Exp B; Enclosed; MWFRS (envelope) and C-C

grip DOL=1.60

Exterior(2E) 0-0-4 to 3-0-4, Interior (1) 3-0-4 to 5-8-2, Exterior(2R) 5-8-2 to 8-8-2, Interior (1) 8-8-2 to 11-4-0

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

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCLL BCDL	(psf) 20.0 15.4/20.0 10.0 0.0 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021	I/TPI2014	CSI TC BC WB Matrix-MS	0.47 0.74 0.30	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a -0.01	(loc) - 5	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 50 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 Structural wood s 6-0-0 oc purlins. Rigid ceiling direct bracing.	neathing directly applie tly applied or 6-0-0 oc	3) 4) ed or 5)	Truss design only. For stu see Standarc or consult qu TCLL: ASCE Plate DOL=1 1.15 Plate DO Exp.; Ce=1.0 Unbalanced design	ed for wind loads ds exposed to wind a Industry Gable E alified building der 7-16; Pr=20.0 psf; JL = 1.15); Is=1.0 b; Cs=1.00; Ct=1.1 snow loads have t	in the pla nd (norm nd Deta signer as (roof LL Pf=15.4 ; Rough 0 peen cor	ane of the tru al to the face ils as applica s per ANSI/T .: Lum DOL= 4 psf (Lum DO Cat B; Partia asidered for t	iss ible, PI 1. 1.15 DL = ally his					
REACTIONS	(size) 1=11-3 7=11-3 Max Horiz 1=-88 ( Max Uplift 1=-187 6=-58 ( Max Grav 1=258 7=614	12, 5=11-3-12, 6=11-3 12, 8=11-3-12 _C 12) (LC 55), 5=-2 (LC 55), _C 17), 8=-71 (LC 16) LC 49), 6=400 (LC 65) LC 55), 8=393 (LC 63)	3-12, 6) 7) 8) 9)	Plates check about its cen Gable require Gable studs This truss ha chord live loa	ed for a plus or mi ter. es continuous bott spaced at 4-0-0 or s been designed f ad nonconcurrent y	nus 5 de om chor c. or a 10.0 with any	egree rotation d bearing. ) psf bottom other live loa	n ads.					
FORCES	(lb) - Maximum C Tension	ompression/Maximum	10	on the botton 3-06-00 tall b	as been designed n chord in all areas ov 2-00-00 wide wi	l for a liv s where Il fit betv	e load of 20. a rectangle /een the bott	0pst om					
TOP CHORD	1-2=-207/352, 2-3 4-5=-112/370	=-168/367, 3-4=-242/3	61, 11	chord and an All bearings	y other members.	SP No.	3.	om					
BOT CHORD	1-8=-242/125, 7-8 5-6=-242/95	=-242/76, 6-7=-242/76	, 12	) Provide mech bearing plate	hanical connection capable of withst	n (by oth anding 1	ers) of truss 87 lb uplift a	to t joint				200111	11.5
NOTES	3-7=-340/31, 2-8=	-311/188, 4-0=-365/18	U	1, 2 lb uplift a	at joint 5, 71 lb upli lb uplift at joint 5	ift at join	t 8, 58 lb upl	ift at				WH CA	ROUL
<ol> <li>Unbalanc this desig</li> <li>Wind: AS Vasd=95r</li> </ol>	ed roof live loads ha n. CE 7-16; Vult=120m nph; TCDL=6.0psf; I	ve been considered for oh (3-second gust) 3CDL=6.0psf; h=25ft; C	- 13 Cat.	) This truss ha load of 250.0 panels and a Bottom Chor	s been designed f lb live and 3.0lb d t all panel points a d, nonconcurrent	or a move ead located along the with any	ving concent ted at all mic Top Chord a other live loa	rated I and ads.		6	2 a	R	Rest

LOAD CASE(S) Standard



Page: 1

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Job	Truss	Truss Type	Qty	Ply	The Farm at Neills Creek Lot 00.0049 Roof	
2501-0707-A	V4	Valley	3	1	Job Reference (optional)	170910839

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Tue Jan 21 11:36:00 ID:V10oeWJ4FJPf54\_dp\_7Gwlzumo1-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

3x4、



2x4 II

11-7-4

Scale	= 1	434	

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 15.4/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021	/TPI2014	CSI TC BC WB Matrix-MS	0.47 0.72 0.12	<b>DEFL</b> Vert(LL) Vert(TL) Horiz(TL)	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: 52 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 Structural wood she 6-0-0 oc purlins. Rigid ceiling directly bracing.	athing directly applie applied or 10-0-0 oc	3) 4) d or 5)	Truss design only. For stu see Standard or consult qu TCLL: ASCE Plate DOL=1 1.15 Plate D Exp.; Ce=1.0 Unbalanced	hed for wind loads ads exposed to wird d Industry Gable E lalified building de (7-16; Pr=20.0  ps) (.15); Pg=20.0  ps) OL = 1.15); Is=1.0 OL = 1.15); Is=1.0 (7  cs=1.00); Ct=1.1 snow loads have I	in the pl id (norm nd Deta signer a (roof Ll Pf=15.4 ; Rough 0 peen co	ane of the tru: lal to the face ils as applical s per ANSI/TF .: Lum DOL= 4 psf (Lum DC Cat B; Partia nsidered for th	ss ), ble, PI 1. 1.15 DL = Ily his					
REACTIONS	(size) 1=11-7-12 7=11-7-12 Max Horiz 1=-90 (LC Max Uplift 1=-29 (LC 6=-65 (LC Max Grav 1=278 (LC 6=397 (LC 8=397 (LC	2, 5=11-7-12, 6=11-7 2, 8=11-7-12 : 12) : 12), 5=-26 (LC 59), : 17), 8=-68 (LC 16) C 49), 5=278 (LC 55) C 65), 7=382 (LC 64) C 63)	-12, 6) 7) 8) 9) , 10)	design. Plates check about its cer Gable requir Gable studs This truss ha chord live loa * This truss h	ted for a plus or m ter. es continuous bott spaced at 4-0-0 o as been designed ad nonconcurrent has been designed	nus 5 d om choi c. or a 10. vith any for a liv	egree rotation d bearing. 0 psf bottom other live loa re load of 20.0	ds. Dpsf					
FORCES	(lb) - Maximum Com	pression/Maximum		on the bottor 3-06-00 tall t	n chord in all area by 2-00-00 wide wi	s where	a rectangle veen the botto	om					
TOP CHORD	1-2=-230/115, 2-3=- 4-5=-230/115	203/123, 3-4=-203/1	16, 11) 12	chord and ar All bearings Provide mec	ny other members. are assumed to be hanical connectior	SP No (by oth	.3. ers) of truss t	0					
BOT CHORD WEBS NOTES	1-8=-30/144, 7-8=-2 5-6=-30/144 3-7=-211/0, 2-8=-35	3/72, 6-7=-23/72, 5/250, 4-6=-355/250	13	bearing plate 1, 26 lb uplift uplift at joint Beveled plat	e capable of withst t at joint 5, 68 lb up 6. e or shim required	anding 2 lift at jo to provi	29 lb uplift at juint 8 and 65 lb de full bearing	oint o				WITH CA	ROUT
4) Lister Level				· · · · ·		1		-		/	1 N 1		

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 5-9-14, Exterior(2R) 5-9-14 to 8-9-14, Interior (1) 8-9-14 to 11-7-12 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
- surface with truss chord at joint(s) 1, 5.
- 14) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads. LOAD CASE(S) Standard



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Job	Truss	Truss Type	Qty	Ply	The Farm at Neills Creek Lot 00.0049 Roof	
2501-0707-A	B2GR	Common Girder	3	2	Job Reference (optional)	170910840

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Tue Jan 21 11:35:55 ID:CcsZp0oLmuz0Sw10vnfputzumZC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:49.2

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

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDI	(psf) 20.0 15.4/20.0 10.0 0.0*	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 NO IRC2021	/TPI2014	<b>CSI</b> TC BC WB Matrix-MS	0.12 0.52 0.45	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.02 -0.05 0.01 0.00	(loc) 6-7 6-7 5 6-7	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 217 lb	<b>GRIP</b> 244/190	
LUMBER TOP CHORD 30T	2x6 SP No.2 2x6 SP No.2 2x4 SP No.3 Left 2x4 SP No.3 3 3-7-6 Structural wood shea 6-0-0 oc purlins. Rigid ceiling directly bracing. (size) 1=0-3-8, 5 Max Horiz 1=-95 (LC Max Grav 1=3079 (L (lb) - Maximum Com Tension 1-2=-2540/0, 2-3=-3 4-5=-2538/0 1-7=0/2239, 6-7=0/1 3-6=0/2191, 4-6=-84 2-7=-85/211 to be connected toget ) nails as follows: s connected as follows at 0-9-0 oc. ected as follows: 2x4 - ire considered equally oted as front (F) or bad section. Ply to ply conro o distribute only loads erwise indicated.	A-7-6, Right 2x4 SP N athing directly applied applied or 10-0-0 oc j=0-3-8 10) .C 2), 5=3068 (LC 2) pression/Maximum 145/0, 3-4=-3146/0, 603, 5-6=0/2195 /212, 3-7=0/2189, /212, 3-7=0/2189, /213, 3-7=0,	4) o.3 5) f or 6) 7) 8) 9) 10) 11) 12) 13) LO 1) ND	Wind: ASCE Vasd=95mph II; Exp B; End and right exp Lumber DOL TCLL: ASCE Plate DOL=1 1.15 Plate DO Exp.; Ce=1.0 Unbalanced design. Plates check about its cen This truss ha chord live loa * This truss ha load of 250.0 panels and a Bottom Chore Use Simpsor Truss) or equ 2-0-12 from t to back face Fill all nail ho <b>AD CASE(S)</b> Dead + Snc Increase=1. Uniform Loa Vert: 1-3 Concentrate	7-16; Vult=120mp 7-16; Vult=120mp 7, TCDL=6.0psf; BC closed; MWFRS (e osed; end vertical =1.60 plate grip DV 7-16; Pr=20.0 psf; 15); Pg=20.0 psf; DL = 1.15); Is=1.0; ; Cs=1.00; Ct=1.10 snow loads have b ed for a plus or min ter. s been designed for d nonconcurrent w as been designed for bl live and 3.0lb det t all panel points a d, nonconcurrent w Strong-Tie LUS20 iivalent spaced at the left end to 10-0 of bottom chord. les where hanger i Standard w (balanced): Lur 15 ads (lb/ft) =-51, 3-5=-51, 8-12 ed Loads (lb)	h (3-sec CDL=6.0 invelope left and OL=1.60 (roof LL Pf=15.4 Rough or eeen cor hus 5 de or a 10.0 vith any for a live s where I fit betw SP No. or a move ead loca long the vith any 6 (4-10c 2-0-0 oc -12 to c is in cor aber Inc	ond gust) )psf; h=25ft; ( ); cantilever I I right expose : Lum DOL=2 . psf (Lum DC Cat B; Partial usidered for th agree rotation ) psf bottom other live loa e load of 20.0 a rectangle veen the bottor 2. ring concentri- ted at all mid other live loa other live loa a rectangle veen the bottor 2. ring concentri- ted at all mid other live loa other live loa a rectangle veen the bottor 2. ring concentri- ted at all mid other live loa other live loa carectangle ted at all mid top Chord a other live loa 1. for der	Cat. eft d; 1.15 JL = Ily ds. psf om ated ds. d ds. d d s) per. Plate		M. HIIIIII.		VVeright: 217 Ib VH CA SEA 03632	RO 22 E.R. K.	Mannun
<ul><li>3) Unbalance this design</li></ul>	ed roof live loads have h.	been considered for		Vert: 6=-9 (B), 23=-9	966 (B), 7=-966 (B 966 (B)	), 20=-9	66 (B), 22=-9	66				CA.G	ILBERTIT'	•



January 22,2025

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Job	Truss	Truss Type	Qty	Ply	The Farm at Neills Creek Lot 00.0049 Roof	
2501-0707-A	B2	Common Supported Gable	3	1	Job Reference (optional)	170910841

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Tue Jan 21 11:35:55 ID:hd25k9V6CrrDQqzGQ1VeCXzumsx-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:51.8

	Plate Offsets (X, Y): [	10:0-4-12,0-1-8],	[16:0-4-12,0-1-8]
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			-										
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL	(psf) 20.0 15.4/20.0 10.0 0.0*	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC202 <sup>2</sup>	1/TPI2014	CSI TC BC WB Matrix-MR	0.23 0.21 0.19	DEFL Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 10	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 MT20HS	<b>GRIP</b> 244/190 187/143
BCDL	10.0											Weight: 79 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 Structural wood she 6-0-0 oc purlins, ex Rigid ceiling directly bracing. (size) 10=12-2-( 13=12-2-( 16=12-2-( 16=12-2-( Max Horiz 16=-128 ( Max Uplift 10=-26 (L 12=-32 (L 15=-66 (L Max Grav 10=317 (L 14=336 (L 14=336 (L 16=317 (L	athing directly applie cept end verticals. applied or 6-0-0 oc ), 11=12-2-0, 12=12- ), 14=12-2-0, 15=12- ) LC 14) C 13), 11=-64 (LC 17 C 17), 14=-32 (LC 16 C 16), 16=-38 (LC 12 C 69), 11=330 (LC 6 C 67), 13=327 (LC 6 C 65), 15=330 (LC 6 C 63)	2) d or 3) 2-0, 2-0, 4) 7), 6), 2) 5) 58), 5), 66), 6), 6), 6), 6)	<ul> <li>2) Wind: ASCE 7-16; Vulle 120mpin (3-second gust)</li> <li>Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.</li> <li>II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) -1-0-0 to 2-1-0, Exterior(2N) 9-1-0 to 13-2-0 zone; cantilever left and right exposed; end vertical left and right exposed; end vertical left and right exposed; end vertical left and right exposed; c-C for members and forces &amp; MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60</li> <li>3) 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>4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp;; Ce=1.0; CS=1.00; Ct=1.10</li> <li>5) Unbalanced snow loads have been considered for this design.</li> <li>6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.</li> </ul>							others) of truss to ng 38 lb uplift at joint ft at joint 14, 66 lb 12 and 64 lb uplift at moving concentrated located at all mid 3 the Top Chord and any other live loads.		
FORCES	(lb) - Maximum Com Tension	pression/Maximum	7)	All plates are	MT20 plates unle	ss other	wise indicate	d.				"TH CA	Bolly
TOP CHORD	2-16=-297/39, 1-2=0 3-4=-125/99, 4-5=-1 6-7=-125/100, 7-8=- 8-10=-297/28	)/66, 2-3=-134/82, 62/190, 5-6=-162/190 134/73, 8-9=0/66,	0, 9) 10	about its cent Gable require ) Truss to be fu	ter. es continuous bott ully sheathed from	om chor one fac	d bearing. e or securely			9	A.	ORIFES	Ang the second s
BOT CHORD	15-16=-59/94, 14-15 12-13=-59/94, 11-12	5=-59/94, 13-14=-59/9 2=-59/94, 10-11=-59/9	94, 11 94 10	) Gable studs	spaced at 2-0-0 or	ni (i.e. 0 ).		•				SEA	L · E
WEBS NOTES 1) Unbalance	5-13=-231/117, 4-14 3-15=-283/126, 6-12 7-11=-283/125 ed roof live loads have	l=-287/104, ≥=-287/104, been considered for	13	) This truss ha chord live loa ) * This truss h on the botton 3-06-00 tall b chord and an	s been designed f id nonconcurrent v as been designed in chord in all area y 2-00-00 wide wi y other members.	or a 10.0 with any I for a liv s where Il fit betv	o psr bottom other live load e load of 20.0 a rectangle veen the botto	ds. )psf om		111W		0363	22 EER A
this desig	n.		14	) All bearings a	are assumed to be	e SP No.	2.				1	A. C	ILBE

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January 22,2025



Job	Truss	Truss Type	Qty	Ply	The Farm at Neills Creek Lot 00.0049 Roof	
2501-0707-A	B1A	Common	6	1	Job Reference (optional)	170910842

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Tue Jan 21 11:35:54 ID:YrJmWPggk1kBExQRCLgrHZzumos-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

3-9-7 7-11-14 13-6-0 3-9-7 4-2-7 5-6-2 13-6-0 4x4 =,12 7 ⊢ 2 9 3x6 🥔 10 4x4 8 11 12 3 7-4-12 13 5-2-4 3x4 II 4 1-8-12 7 5 X Ø 14 6 15 2x4 I 4x8= MT20HS 3x8 =

		F	<u>3-9-7</u> 3-9-7		1	<u>3-6-0</u> 9-8-9		—–			
(psf)	Spacing	2-0-0		CSI		DEFL	in	(loc)	l/defl	L/d	PLATE

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	0.63	Vert(LL)	-0.35	5-6	>451	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.50	5-6	>314	240	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.01	6-7	>999	240		
BCDL	10.0										Weight: 90 lb	FT = 20%

LUMBER		
TOP CHORD	2x4 SP N	0.2
BOT CHORD	2x4 SP S	S
WEBS	2x4 SP N	0.3 *Except* 5-4:2x4 SP No.2
BRACING		
TOP CHORD	Structural	wood sheathing directly applied,
	except en	nd verticals.
BOT CHORD	Rigid ceili	ing directly applied.
REACTIONS	(size)	5=0-3-8, 7=0-3-8
	Max Horiz	7=-154 (LC 12)
	Max Grav	5=528 (LC 2), 7=528 (LC 2)
FORCES	(lb) - Max	imum Compression/Maximum
	Tension	
TOP CHORD	1-2=-367/	/110, 2-3=-385/109, 3-4=-303/71,
	1-7=-579/	78, 4-5=-357/69
BOT CHORD	6-7=-164/	200, 5-6=-61/416
WEBS	1-6=-56/4	27, 2-6=-80/171, 3-5=-348/85,
	3-6=-271/	(142

#### NOTES

Scale = 1:51

- Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 4-7-5 to 7-7-5, Interior (1) 7-7-5 to 8-3-0, Exterior(2R) 8-3-0 to 11-3-0, Interior (1) 11-3-0 to 17-9-13 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 5) All plates are MT20 plates unless otherwise indicated.

- 6) Plates checked for a plus or minus 5 degree rotation about its center.
- 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.
- 9) All bearings are assumed to be SP SS .
- 10) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



Page: 1



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Job	Truss	Truss Type	Qty	Ply	The Farm at Neills Creek Lot 00.0049 Roof	
2501-0707-A	VG5	Valley	5	1	Job Reference (optional)	170910843

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Tue Jan 21 11:36:03 ID:q3vjq3CJRBrMZ4v01rKUwuztUQa-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



13-7-12

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	15.4	(psf) 20.0 4/20.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021	/TPI2014	CSI TC BC WB Matrix-MS	0.48 0.44 0.19	<b>DEFL</b> Vert(LL) Vert(TL) Horiz(TL)	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: 6
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No. 2x4 SP No. 2x4 SP No. Structural w 6-0-0 oc pu Rigid ceiling bracing. (size) 1 7 Max Horiz 1 Max Uplift 1 8 Max Grav 1 6 8	2 2 3 vood shea rifins. g directly =13-7-12 =-106 (Li =-19 (LC ==-75 (LC ==296 (LC ==410 (LC ==410 (LC	athing directly applie applied or 6-0-0 oc 2, 5=13-7-12, 6=13-7 7, 8=13-7-12 C 14) 12), 6=-72 (LC 17), 16) 2 49), 5=296 (LC 55) 2 65), 7=399 (LC 64) 5 63)	3) d or 5) -12, 6) 7) 8) 9) , 10)	Truss design only. For stu see Standard or consult qu TCLL: ASCE Plate DOL=1 1.15 Plate DO Exp.; Ce=1.0 Unbalanced design. Plates check about its cen Gable requirt Gable studs This truss ha chord live loa * This truss h	ed for wind loads ds exposed to wird a lifted building de 7-16; Pr=20.0 ps .15); Pg=20.0 ps DL = 1.15); Is=1.0 ; Cs=1.00; Ct=1.1 snow loads have I ed for a plus or m ter. es continuous bott spaced at 4-0-0 o s been designed ta onoconcurrent t uas been designed	in the pland (norm and Deta signer as f (roof LL ; Pf=15.4 ; Rough 0 been cor inus 5 de tom chor c. for a 10.0 with any d for a liv	ane of the tru al to the face ils as applica s per ANSI/T .: Lum DOL= psf (Lum D Cat B; Partia asidered for the agree rotatio d bearing. D psf bottom other live los e load of 20.	uss a), able, PI 1. -1.15 OC = ally this n ads. 0psf				
FORCES	(lb) - Maxim Tension	num Com	pression/Maximum		on the botton 3-06-00 tall b	n chord in all area by 2-00-00 wide wi	s where ill fit betv	a rectangle veen the bot	tom				
TOP CHORD BOT CHORD WEBS	1-2=-265/14 4-5=-265/14 1-8=-45/166 5-6=-45/166 3-7=-234/0,	48, 2-3=- 48 6, 7-8=-4 6 , 2-8=-332	186/119, 3-4=-186/1 5/89, 6-7=-45/89, 2/204, 4-6=-332/203	<sup>13,</sup> 11) 12) 13)	All bearings a Provide mech bearing plate 1, 75 lb uplift This truss ha	are assumed to be hanical connection capable of withst at joint 8 and 72 l s been designed f	e SP No. (by oth anding 1 b uplift a for a mov	2 . ers) of truss 9 lb uplift at t joint 6. ving concent	to joint rated				IN TH

- NOTES
- Unbalanced roof live loads have been considered for 1) this design. Wind: ASCE 7-16; Vult=120mph (3-second gust) 2)
- Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-4 to 2-10-2, Interior (1) 2-10-2 to 6-10-2, Exterior(2R) 6-10-2 to 9-10-2, Interior (1) 9-10-2 to 13-8-0 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

load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads. LOAD CASE(S) Standard



Page: 1

GRIP 244/190

FT = 20%

64 lb

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Job	Truss	Truss Type	Qty	Ply	The Farm at Neills Creek Lot 00.0049 Roof	
2501-0707-A	V5	Valley	3	1	Job Reference (optional)	170910844

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Tue Jan 21 11:36:01 ID:GaVqJFP5NnPX2Jb9HfG8FRzumnv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

6-11-10 13-11-4 6-11-10 6-11-10 13-11-12 4x4= 3 16 17 2x4 II 2x4 II 18 6-11-14 15 19 2 Δ 12 12∟ 14 20 13 21 22 29 0-0-4 1 5 24 25 26 27 23 8 7 6 28 3x4 / 3x4 2x4 🛛 2x4 II 2x4 II

13-11-4

Scale = 1:48

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 15.4/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021/TPI2014	CSI TC BC WB Matrix-MS	0.49 0.44 0.20	<b>DEFL</b> Vert(LL) Vert(TL) Horiz(TL)	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: 65 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood she 6-0-0 oc purlins. Rigid ceiling directly bracing.	athing directly applie applied or 6-0-0 oc	<ol> <li>Truss desig only. For s see Standa or consult o</li> <li>TCLL: ASC Plate DOL= 1.15 Plate I Exp.; Ce=1</li> <li>Unbalanced design.</li> </ol>	Ined for wind loac tuds exposed to v rd Industry Gable jualified building of E 7-16; Pr=20.0 p :1.15); Pg=20.0 p DOL = 1.15); Is=1 .0; Cs=1.00; Ct=1 d snow loads have	ds in the pl wind (norm End Deta designer a osf (roof Ll sf; Pf=15.4 1.0; Rough 1.10 e been col	ane of the tru al to the face ils as applical s per ANSI/TF L: Lum DOL= \$ psf (Lum DC Cat B; Partia	ss ), ple, Pl 1. 1.15 DL = Ily nis					
REACTIONS	(size) 1=13-11-1 6=13-11-1 8=13-11-1 Max Horiz 1=108 (LC Max Uplift 1=-17 (LC 8=-75 (LC Max Grav 1=297 (LC 6=413 (LC 8=416 (LC	(2, 5=13-11-12, (2, 7=13-11-12, (2, 13) (12), 6=-73 (LC 17), (16) (249), 5=241 (LC 55) (265), 7=404 (LC 64) (233)	<ul> <li>6) Plates check about its certain about the set of the s</li></ul>	ked for a plus or inter. ires continuous b s spaced at 4-0-0 ias been designer bad nonconcurrer has been design om chord in all are bu 2.00 wide	minus 5 d ottom chor oc. d for a 10. nt with any ed for a liv eas where	egree rotation d bearing. D psf bottom other live loa e load of 20.0 a rectangle	ds. )psf					
FORCES	(lb) - Maximum Com Tension	pression/Maximum	chord and a	any other member	rs, with BC	DL = 10.0psf						
TOP CHORD	1-2=-268/158, 2-3=- 4-5=-262/158	182/117, 3-4=-182/1	11, 12) Provide me bearing pla	chanical connecti te capable of with	ion (by oth	ers) of truss t 7 lb uplift at i	o oint					
BOT CHORD	1-8=-47/173, 7-8=-4 5-6=-47/171	7/85, 6-7=-47/85,	1, 75 lb upl 13) Beveled pla	ft at joint 8 and 7 ate or shim require	3 lb uplift a ed to provi	it joint 6. de full bearing	a				WH CA	RO
WEBS	3-7=-240/0, 2-8=-33	3/201, 4-6=-333/200	surface with	n truss chord at jo	oint(s) 1, 5.		-			A	R	in the
NOTES 1) Unbalance	ed roof live loads have	been considered for	14) This truss h load of 250	as been designe .0lb live and 3.0lb	d for a mo dead loca	ving concentr ated at all mid	ated		4	in	1000	No star
this design 2) Wind: ASC Vasd=95n II; Exp B; I Exterior(2) 6-11-14, E 9-11-14 to exposed ; members	n. CE 7-16; Vult=120mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (err E) 0-0-0 to 2-11-14, Int ixterior(2R) 6-11-14 to 13-7-8 zone; cantileve end vertical left and rig and forces & MWFRS 0, 1, 60 sette serie PCO	(3-second gust) DL=6.0psf; h=25ft; C vvelope) and C-C erior (1) 2-11-14 to 9-11-14, Interior (1) er left and right ght exposed; C-C for for reactions shown;	panels and Bottom Chr Cat. LOAD CASE(S	at all panel point: ord, nonconcurrer ) Standard	s along the	Top Chord a other live loa	ınd ds.			A A A A A A A A A A A A A A A A A A A	SEA 0363	L 22 EERER

Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-0 to 2-11-14, Interior (1) 2-11-14 to 6-11-14, Exterior(2R) 6-11-14 to 9-11-14, Interior (1) 9-11-14 to 13-7-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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G 11111111 January 22,2025



Job	Truss	Truss Type	Qty	Ply	The Farm at Neills Creek Lot 00.0049 Roof	
2501-0707-A	A2G	Common Supported Gable	2	1	Job Reference (optional)	845

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Tue Jan 21 11:35:53 ID:CzXFIwsYyDpcKiYxS5HO2czum0F-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:46.3					15-2	-0				—			
				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	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999			
TCDL	10.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	12	n/a	n/a			
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS									
BCDL	10.0										Weight: 84 lb	FT = 20%	

-		
LUMBER TOP CHORD BOT CHORD WEBS OTHERS	2x4 SP N 2x4 SP S 2x4 SP N 2x4 SP N 2x4 SP N	0.2 S 0.3 0.3
BRACING		
TOP CHORD	Structural except en	l wood sheathing directly applied, id verticals.
BOT CHORD	Rigid ceili	ing directly applied.
REACTIONS	(size)	12-15-2-0 13-15-2-0 14-15-2-0
REACTIONS	(3126)	15=15-2-0, 16=15-2-0, 17=15-2-0, 18=15-2-0, 19=15-2-0, 20=15-2-0
	Max Horiz	20=-102 (LC 14)
	Max Uplift	12=-6 (LC 13), 13=-29 (LC 17),
		14=-13 (LC 17), 15=-14 (LC 17),
		17=-15 (LC 16), 18=-13 (LC 16),
		19=-32 (LC 16), 20=-22 (LC 12)
	Max Grav	12=307 (LC 77), 13=316 (LC 76),
		14=336 (LC 75), 15=334 (LC 74),
		16=331 (LC 73), 17=334 (LC 72),
		18=336 (LC 71), 19=316 (LC 70),
		20=307 (LC 69)
FORCES	(lb) - Max	imum Compression/Maximum
	Tension	
TOP CHORD	2-20=-292	2/55, 1-2=0/52, 2-3=-95/65,
	3-4=-78/8	5, 4-5=-80/83, 5-5=-105/138,
	6-7=-105/	138, 7-8=-80/83, 8-9=-78/85,
	9-10=-95/	61, 10-11=0/52, 10-12=-292/55
BOT CHORD	19-20=-44	4/96, 18-19=-44/96, 17-18=-44/96,
	16-17=-44	4/96, 15-16=-44/96, 14-15=-44/96,
	13-14=-44	4/96, 12-13=-44/96
WEBS	6-16=-243	3/10, 5-17=-284/80, 4-18=-287/90,
	3-19=-276	6/79, 7-15=-284/80, 8-14=-287/90,
	9-13=-276	6/79

- NOTES
- Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) -1-0-0 to 2-0-0, Exterior(2N) 2-0-0 to 7-7-0, Corner (3R) 7-7-0 to 10-7-0, Exterior(2N) 10-7-0 to 16-2-0 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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 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 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- Plates checked for a plus or minus 5 degree rotation about its center.
- B) Gable requires continuous bottom chord bearing.
- 9) Truss to be fully sheathed from one face or securely
- braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 2-0-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 12) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 13) All bearings are assumed to be SP SS .

14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 20, 6 lb uplift at joint 12, 15 lb uplift at joint 17, 13 lb uplift at joint 18, 32 lb uplift at joint 19, 14 lb uplift at joint 15, 13 lb uplift at joint 14 and 29 lb uplift at joint 13.

Page: 1

- 15) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 16) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- LOAD CASE(S) Standard



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Job	Truss	Truss Type	Qty	Ply	The Farm at Neills Creek Lot 00.0049 Roof	
2501-0707-A	A2	Common	10	1	Job Reference (optional)	910846

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Page: 1

Structural, LLC, Thurmont, MD - 21788.



	7-7-0	15-2-0	
Scale = 1:47.6	7-7-0	7-7-0	
Plate Offsets (X, Y): [2:0-2-12,0-0-7], [6:0-3-1,0-0-7]			

coading (CLL (cod)         (pet) (200 (CLL (cod)         Spacing (200 (CLL (cod)         2-0-0 (200 (CLL (cod)         CSI (CO         0.07 (CO         CSI (CO         0.07 (CO         PLATES         GRP (PIC)           CIL         0.00 (CO         1.15 (CO         0.07 (CO         1.15 (CO         0.07 (CO         0.03 (CO         2.44 SP (CO		, .). <u>L</u> ==,,.	], [e.e.e]												
<ul> <li>JUMBER TOP CHORD 2x4 SP No.2</li> <li>SOT CHORD 2x4 SP SS VEBS 2x4 SP No.3 - 1-6-0, Right 2x4 SP No.3 -+1-6-0</li> <li>Structural wood sheathing directly applied.</li> <li>FACTIONS (ize) 2-2-0-3-8, 6-0-3-8 Max Horiz 2-92 (iC 15) Max Grav 2-768 (IC 34), 6-756 (IC 35) Max Grav 2-768 (IC 34), 6-756 (IC 35) GOT CHORD 2:8102/641, 6-8106/641</li> <li>VEBS 4-8-01/22 (iC 16), 0-10-72-0, Interior (1) -0-70 to 16-2-0 zone; cancilluse products have been considered for this design.</li> <li>Wint ASCE 7-16; VPI-20, 0 pt (rod LL: Lum DOL=1.15 Plate DOL=1.16); P=20.0 pt; (IC 34), 6-726 (IC 34) Grav 2-768 (IC 34), 6-756 (IC 35), 0-727-0, Extenor(2R), 7-20 to 10-7-0, Interior (1) 10-70 to 15-2-0 zone; cancilluse products of the product of the formation chord in allow it is construction of the disconstruction of the disc</li></ul>	Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 15.4/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC202	1/TPI2014	CSI TC BC WB Matrix-AS	0.87 0.49 0.16	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.20 -0.25 0.03 0.05	(loc) 8-15 8-15 2 8-11	l/defl >918 >720 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 66 lb	<b>GRIP</b> 244/190 FT = 20%	
	LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING TOP CHORD BOT CHORD BOT CHORD REACTIONS FORCES TOP CHORD BOT CHORD WEBS NOTES 1) Unbalance this design 2) Wind: ASC Vasd=95m II; Exp B; E Exterior(2E Exterior(2E Exterior(2E Exterior(2E Exterior(2E Exterior(2E Exterior(2E Exterior(2E) cone; canti and right e MWFRS fc grip DOL= 3) TCLL: ASC Plate DOL 1.15 Plate Exp.; Ce=-	2x4 SP No.2 2x4 SP SS 2x4 SP SS 2x4 SP No.3 Left 2x4 SP No.3 1 1-6-0 Structural wood shea Rigid ceiling directly (size) 2=0-3-8, 6 Max Horiz 2=92 (LC Max Grav 2=756 (LC (lb) - Maximum Com Tension 1-2=0/45, 2-4=-882/5 6-7=0/45 2-8=-102/641, 6-8=- 4-8=0/421 droof live loads have E 7-16; Vult=120mph ph; TCDL=6.0psf; BC Enclosed; MWFRS (en E) -1-0-0 to 2-0-0, Inter ilever left and right exp xposed; C-C for membor reactions shown; Lu 1.60 CE 7-16; Pr=20.0 psf; IC DOL = 1.15); Is=1.0; F DOL = 1.0; Ct=1.10	I-6-0, Right 2x4 SP I athing directly applie applied. b=0-3-8 15) C 34), 6=756 (LC 35) pression/Maximum 93, 4-6=-882/93, 106/641 been considered for (3-second gust) DL=6.0psf; h=25ft; C vielope) and C-C rior (1) 2-0-0 to 7-7-0 rior (1) 2-0-0 to 7	5) No.3 7) Ad. 8) 9) 10 11 7 LC Cat. 0, -2-0 left te 1.15 NL = ly i-	This truss ha load of 12.0 overhangs n Plates check about its cen This truss ha chord live loa * This truss fa on the bottor 3-06-00 tall b chord and ar All bearings ) This truss ha load of 250.0 panels and a Bottom Chor ) This truss de structural wo chord and 1/ the bottom c <b>DAD CASE(S)</b>	is been designed f psf or 2.00 times f fon-concurrent with ed for a plus or mi- ter. Is been designed f ad nonconcurrent is has been designed f yoy 2-00-00 wide wi- yoy 2-00-00 wide wi- yoy other members, are assumed to be is been designed f olb live and 3.01b d t all panel points a d, nonconcurrent is sign requires that od sheathing be a 2" gypsum sheetro hord. Standard	for great lat roof la other lin inus 5 de for a 10.0 with any d for a liv s where ill fit betw e SP SS for a mov lead loca along the with any a minim applied di pock be ap	er of min roof aad of 15.4 p: /e loads. agree rotation opsf bottom other live loa e load of 20.0 a rectangle /een the bottw DL = 10.0psf ing concentr ted at all mid Top Chord a other live loa um of 7/16" rectly to the to oplied directly	f live sf on h dds. Dpsf om f. ated and ids. top y to				SEA 0363	ROUNT L 22	Manunum.

- grip DOL=1.60 TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 3) Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.

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11111111 January 22,2025

Job	Truss	Truss Type	Qty	Ply	The Farm at Neills Creek Lot 00.0049 Roof	
2501-0707-A	A2A	Common	12	1	Job Reference (optional)	47

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3x6 II





2x4 II

	7-7-0	15-2-0	
1	7-7-0	7-7-0	
Scale = 1:44.4			
Plate Offsets (X, Y): [1:0-3-4,0-0-3], [5:0-3-9,0-0-3]			

3x6 II

Max Grav 1=701 (LC 33), 5=701 (LC 34)

(lb) - Maximum Compression/Maximum

1-3=-888/86, 3-5=-888/86

1-6=-134/640, 5-6=-128/640

Unbalanced roof live loads have been considered for

Exterior(2R) 7-7-0 to 10-7-0, Interior (1) 10-7-0 to 15-2-0 zone; cantilever left and right exposed ; end vertical left

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

Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially

Unbalanced snow loads have been considered for this

Plates checked for a plus or minus 5 degree rotation

Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 7-7-0,

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

Tension

3-6=0/423

Exp.; Ce=1.0; Cs=1.00; Ct=1.10

FORCES

WEBS

NOTES 1)

2)

3)

4)

5)

TOP CHORD

BOT CHORD

this design.

grip DOL=1.60

about its center.

design.

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	0.87	Vert(LL)	-0.20	6-9	>918	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15		BC	0.49	Vert(CT)	-0.25	6-9	>717	240		
TCDL	10.0	Rep Stress Incr	YES		WB	0.16	Horz(CT)	0.03	1	n/a	n/a		
BCLL	0.0*	Code	IRC202	1/TPI2014	Matrix-AS		Wind(LL)	0.05	6-9	>999	240		
BCDL	10.0											Weight: 62 lb	FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS SLIDER	2x4 SP No.2 2x4 SP SS 2x4 SP No.3 Left 2x4 SP No.3 1 1-6-0	-6-0, Right 2x4 SP	6) 7) 9 No.3	This truss h chord live lo * This truss on the botto 3-06-00 tall chord and a	as been design ad nonconcurre has been desig m chord in all a by 2-00-00 wide ny other memb	ed for a 10. ent with any ned for a liv reas where e will fit betw ers, with BC	D psf bottom other live loa e load of 20. a rectangle veen the bott DL = 10.0ps	ads. .0psf tom sf.					
BRACING TOP CHORD BOT CHORD REACTIONS	Structural wood shea Rigid ceiling directly (size) 1=0-3-8, 5 Max Horiz 1=-81 (LC	athing directly appli applied. i=0-3-8 12)	ied. 9)	This truss h load of 250. panels and Bottom Cho	as been design 0lb live and 3.0 at all panel poir rd, nonconcurre	ed for a mor lb dead loca hts along the ent with any	ving concent ated at all mice Top Chord other live loa	trated d and ads.					

10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord. LOAD CASE(S) Standard



818 Soundside Road

Edenton, NC 27932

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Job	Truss	Truss Type	Qty	Ply	The Farm at Neills Creek Lot 00.0049 Roof	
2501-0707-A	VG6	Valley	5	1	Job Reference (optional)	910848

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Tue Jan 21 11:36:03 ID:X\_WVwTJb4F6xmcgxdxVqK?ztUQQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



15-11-12

Scale = 1:53.8

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 15.4/20.0 10.0 0.0* 10.0	Spacing2Plate Grip DOL1Lumber DOL1Rep Stress IncrYCodeIF	0-0 15 15 ES 8C2021/TPI2014	CSI TC BC WB Matrix-MS	0.53 0.44 0.82	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a -0.01	(loc) - - 5	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 77 lb	<b>GRIP</b> 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 Structural wood she 6-0-0 oc purlins. Rigid ceiling directly bracing. (size) 1=15-11- 6=15-11- 8=15-11- Max Horiz 1=-125 (L Max Uplift 1=-239 (L 6=-86 (LC Max Grav 1=254 (L (LC 34), 33)	Pathing directly applied or applied or 6-0-0 oc 12, 5=15-11-12, 12, 7=15-11-12, 12 .C 14) .C 55), 5=-1 (LC 55), C 49), 5=1 (LC 60), 6=48 7=809 (LC 55), 8=477 (LC 10, 10, 10, 10, 10, 10, 10, 10, 10, 10,	<ol> <li>Truss de only. Fo see Stan or consu</li> <li>TCLL: AS Plate DC 1.15 Plat Exp.; Ce</li> <li>Unbalanc design.</li> <li>Plates ch about its</li> <li>Gable stu</li> <li>This trus chord live 2</li> <li>This trus on the bo 3-06-00 1</li> </ol>	signed for wind loa studs exposed to dard Industry Gable t qualified building GCE 7-16; Pr=20.0 L=1.15); Pg=20.0; CE = DOL = 1.15); Pg=20.0; CE = 1.0; CS=1.00; CE = to; CS=1.	ds in the pl wind (norm e End Deta designer a psf (roof LI ssf; Pf=15 1.0; Rough 1.10 re been col re	ane of the tru nal to the face ills as applica s per ANSI/T .: Lum DOL= 4 psf (Lum D Cat B; Partia nsidered for t egree rotation rd bearing. 0 psf bottom other live loa re load of 20. a rectangle	nss )), bble, PI 1. 1.15 OL = ally his n ads. Opsf om						
FORCES TOP CHORD BOT CHORD WEBS NOTES 1) Unbalanc this desig 2) Wind: ASI Vasd=957 II; Exp B; Exterior(2	(lb) - Maximum Con Tension 1-2=-230/497, 2-3=: 4-5=-78/501 1-8=-334/158, 7-8=: 5-6=-346/66 3-7=-734/0, 2-8=-38 ed roof live loads have n. CE 7-16; Vult=120mph nph; TCDL=6.0psf; BC Enclosed; MWFRS (et E) 0-0-4 to 3-0-4, Inter	apression/Maximum 34/497, 3-4=-71/494, 334/52, 6-7=-334/52, 60/180, 4-6=-383/179 been considered for a (3-second gust) DL=6.0psf; h=25ft; Cat. twelope) and C-C ior (1) 3-0-4 to 8-0-2,	chord an 11) All bearing r bearing r 1, 1 lb up joint 6 an 13) This trus load of 2 panels an Bottom C LOAD CASE	d any other member gs are assumed to nechanical connect late capable of with lift at joint 5, 91 lb of d 1 lb uplift at joint s has been designe 50.0lb live and 3.0ll d at all panel point hord, nonconcurre (S) Standard	ers, with BC be SP No tion (by oth hstanding 2 uplift at joir 5. ed for a mo b dead loca ts along the nt with any	CDL = 10.0ps .2. 239 lb uplift a tt 8, 86 lb upl ving concent ated at all mic other live loa	f. t joint t joint fft at rated d and ads.		<b>W</b> . 11111		OR FESE SEA 0363	L 22	

Exterior(2E) 0-0-4 to 3-0-4, Interior (1) 3-0-4 to 8-0-2, Exterior(2R) 8-0-2 to 11-0-2, Interior (1) 11-0-2 to 16-0-0 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



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Job	Truss	Truss Type	Qty	Ply	The Farm at Neills Creek Lot 00.0049 Roof	
2501-0707-A	M2	Monopitch	21	1	Job Reference (optional)	170910849

Structural LLC Thurmont MD - 21788

Run: 8.83 S. Dec. 4 2024 Print: 8.830 S.Dec. 4 2024 MiTek Industries. Inc. Tue. Jan 21 11:35:58 ID:ZMIC\_qy8rJZ7PXX6gCmXEEzun?P-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



#### Scale = 1:72.9

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	0.92	Vert(LL)	-0.29	8-9	>646	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.37	8-9	>512	240		
TCDL	10.0	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.01	8	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.01	8-9	>999	240		
BCDL	10.0										Weight: 110 lb	FT = 20%

LUMBER		
TOP CHORD	2x4 SP N	0.2
BOT CHORD	2x4 SP S	S
WEBS	2x4 SP N	o.3 *Except* 10-2:2x4 SP No.2
BRACING		
TOP CHORD	Structural except en	wood sheathing directly applied, d verticals.
BOT CHORD	Rigid ceili	ng directly applied.
WEBS	1 Row at	midpt 4-8, 5-8
REACTIONS	(size)	8= Mechanical, 10=0-3-8
	Max Horiz	10=199 (LC 16)
	Max Uplift	8=-71 (LC 16)
	Max Grav	8=798 (LC 34), 10=770 (LC 34)
FORCES	(lb) - Max	imum Compression/Maximum
		2 4 664/0 4 5 444/06
TOP CHORD	1-2=0/47,	2-4=-004/0, 4-5=-141/80,
	0.10-200	7276 - 90 - 106/597 - 79 - 0/0
	9-10=-30	9/270, 0-9=-100/507, 7-0=0/0
WEDO	4-9=0/350	J, 4-0=-0UZ/14J, Z-9=U/398,
	L U .J .//	

# NOTES

- Wind: ASCE 7-16; Vult=120mph (3-second gust) 1) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 16-0-0 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 2) Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this desian.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.

- 5) Plates checked for a plus or minus 5 degree rotation about its center.
- 6) This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads. 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle
- 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf. Bearings are assumed to be: Joint 10 SP SS . 8)
- 9) Refer to girder(s) for truss to truss connections. 10) Provide mechanical connection (by others) of truss to
- bearing plate capable of withstanding 71 lb uplift at joint 8
- 11) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads. 12) This truss design requires that a minimum of 7/16"
- structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



Page: 1

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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	The Farm at Neills Creek Lot 00.0049 Roof	
2501-0707-A	M2G	Monopitch Supported Gable	3	1	Job Reference (optional)	170910850

### Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Tue Jan 21 11:35:58 ID:8iVM4Y5bZVcBNccS?o?urFzun0W-RfC?PsB70Hq3NSqPqnL8w3uITXbGKWrCDoi7J4zJC?f





Coolo	1.72.0	
Scale	= 1.72.9	

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	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999			
TCDL	10.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.00	13	n/a	n/a			
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS									
BCDL	10.0										Weight: 147 lb	FT = 20%	

LUMBER		
TOP CHORD	2x4 SP N	0.2
BOT CHORD	2x4 SP S	S
WEBS	2x4 SP N	0.3 *Except* 22-2:2x4 SP No.2
OTHERS	2x4 SP N	0.3
BRACING		
TOP CHORD	Structural	l wood sheathing directly applied, ad verticals
BOT CHORD	Rigid ceil	ing directly applied.
WEBS	1 Row at	midpt 10-15, 9-16, 11-14
REACTIONS	(size)	13-16-0-0 14-16-0-0 15-16-0-0
KERCHONS	(3126)	16=16-0-0, 17=16-0-0, 18=16-0-0, 19=16-0-0, 20=16-0-0, 21=16-0-0, 22=16-0-0
	Max Horiz	22=199 (LC 16)
	Max Uplift	13=-232 (LC 64), 14=-57 (LC 63), 15=-11 (LC 16), 16=-10 (LC 16), 17=-10 (LC 16), 18=-10 (LC 16), 19=-10 (LC 16), 20=-11 (LC 16), 21=-267 (I C 16), 22=-119 (I C 14)
	Max Grav	13=60 (LC 63), 14=419 (LC 64), 15=331 (LC 73), 16=334 (LC 72), 17=333 (LC 71), 18=333 (LC 70), 19=333 (LC 69), 20=334 (LC 68), 21=329 (LC 67), 22=364 (LC 16)
FORCES	(lb) - Max	imum Compression/Maximum
	Tension	
TOP CHORD	2-22=-654 3-4=-343/ 7-8=-192/ 10-11=-8	4/282, 1-2=0/47, 2-3=-384/187, (165, 4-6=-290/141, 6-7=-241/117, (93, 8-9=-143/73, 9-10=-92/73, 3/60, 11-12=-11/0
BOT CHORD	21-22=-4	06/186, 20-21=0/0, 19-20=0/0.
201 0110112	18-19=0/0	). 17-18=0/0. 16-17=0/0. 15-16=0/0.
	14-15=0/0	). 13-14=0/0
WEBS	10-15=-2	71/90. 9-16=-270/77. 8-17=-272/74.
	7-18=-27	5/74, 6-19=-267/73, 4-20=-281/80,
	3-21=-27	7/70, 11-14=-268/44, 2-21=-300/656
NOTES		

- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Corner (3E) -1-0-0 to 2-0-0, Exterior(2N) 2-0-0 to 16-0-0 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
- 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- 5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.

6) Plates checked for a plus or minus 5 degree rotation about its center.

- 7) Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
   Gable studs spaced at 2-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom
   chord live load popconcurrent with any other live loads
- 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) All bearings are assumed to be SP SS .

- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 119 lb uplift at joint 22, 232 lb uplift at joint 13, 11 lb uplift at joint 15, 10 lb uplift at joint 16, 10 lb uplift at joint 17, 10 lb uplift at joint 18, 10 lb uplift at joint 19, 11 lb uplift at joint 20, 57 lb uplift at joint 14 and 267 lb uplift at joint 21.
- 14) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 15) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



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Job	Truss	Truss Type	Qty	Ply	The Farm at Neills Creek Lot 00.0049 Roof	
2501-0707-A	V6	Valley	3	1	Job Reference (optional)	170910851

## Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Tue Jan 21 11:36:01 ID:16\_s\_?V6UEQO0XChlLQ0Z7zumnn-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



16-3-12

#### Scale = 1:52.5

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 15.4/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC202	1/TPI2014	CSI TC BC WB Matrix-MS	0.50 0.75 0.34	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 9	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 79 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 Structural wood she 6-0-0 oc purlins. Rigid ceiling directly bracing. (size) 1=16-3-12 7=16-3-12 Max Horiz 1=-127 (L Max Uplift 1=-17 (LC (LC 17), § Max Grav 1=297 (LC 9=500 (LC	athing directly applied applied or 6-0-0 oc 2, 5=16-3-12, 6=16-3 2, 9=16-3-12 C 14) C 12), 5=-1 (LC 44), 6 9=88 (LC 16) C 49), 5=297 (LC 55) C 34), 7=466 (LC 33) C 33)	3) d or 5) -12, 6) =-86 7) 8) 9) , 10	Truss design only. For stu see Standard or consult qu TCLL: ASCE Plate DOL=1 1.15 Plate D Exp.; Ce=1.0 Unbalanced design. Plates check about its cen Gable requir Gable studs This truss ha chord live loo 0) * This truss H	ed for wind loads i uds exposed to wind d Industry Gable Er ialified building des 7-16; Pr=20.0 psf; 0L = 1.15); Is=1.0; 0; Cs=1.00; Ct=1.10 snow loads have b ted for a plus or mini- ter. es continuous botto spaced at 4-0-0 oc is been designed for ad nonconcurrent v has been designed no chord in all areas	n the pla d (norm nd Deta signer as (roof LL Pf=15.4 Rough 0 been cor nus 5 de om chor 5 or a 10.0 vith any for a liv s where	ane of the tru lal to the face ils as applica s per ANSI/TI :: Lum DOL= 4 psf (Lum DC Cat B; Partia nsidered for th egree rotation rd bearing. 0 psf bottom other live loa re load of 20.0 a rectangle	ss ), ble, Pl 1. 1.15 DL = Ily nis n ds. Opsf					
FORCES	(lb) - Maximum Com Tension	pression/Maximum		3-06-00 tall t	by 2-00-00 wide will a volume the second sec	I fit betv	veen the botto DL = 10.0pst	om					
TOP CHORD	1-2=-270/230, 2-3=- 4-5=-270/230	144/148, 3-4=-144/1:	<sup>34,</sup> 11 12	) All bearings 2) Provide mec	are assumed to be hanical connection	SP No. (by oth	.3. ers) of truss t	0					
WEBS	1-9=-103/178, 7-9=- 5-6=-103/178 3-7=-290/0, 2-9=-34	6/192, 4-6=-346/191	14,	bearing plate 1, 1 lb uplift at joint 6.	e capable of withsta at joint 5, 88 lb upli	anding 1 ft at join	7 lb uplift at j t 9 and 86 lb	oint uplift				TH CA	Bolin

- NOTES
- Unbalanced roof live loads have been considered for this design.
   We that A005 7 to 10 km to 0 m to 0
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 8-1-14, Exterior(2R) 8-1-14 to 11-1-14, Interior (1) 11-1-14 to 16-3-12 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
- 13) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
  LOAD CASE(S) Standard



Page: 1

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Job	Truss	Truss Type	Qty	Ply	The Farm at Neills Creek Lot 00.0049 Roof	
2501-0707-A	G1G	Monopitch Supported Gable	5	1	I7 Job Reference (optional)	70910852

# Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Tue Jan 21 11:35:56 ID:0958gYjH3NCDg4fqlyrwCJzumvF-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:70.7

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 15.4/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC202	1/TPI2014	CSI TC BC WB Matrix-AS	0.20 0.20 0.28	<b>DEFL</b> Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 2	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 140 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS SLIDER BRACING TOP CHORD BOT CHORD WEBS REACTIONS	DL         10.0           MBER         P CHORD         2x4 SP No.2           T CHORD         2x4 SP No.2           BS         2x4 SP No.3           HERS         2x4 SP No.3 - 1-6-0           ACING         P CHORD           Structural wood sheathing directly applied.           P CHORD         Structural wood sheathing directly applied.           P CHORD         Structural wood sheathing directly applied.           P CHORD         Structural wood sheathing directly applied.           BS         1 Row at midpt         12-17, 11-18, 13-16           ACTIONS         (size)         2=17-11-8, 15=17-11-8, 16=17-11-8, 16=17-11-8, 20=17-11-8, 20=17-11-8, 21=17-11-8, 22=17-11-8, 22=17-11-8, 22=17-11-8, 22=17-11-8, 22=17-11-8, 22=17-11-8, 22=17-11-8, 22=17-11-8, 22=17-11-8, 22=17-11-8, 22=17-11-8, 22=17-11-8, 22=17-11-8, 22=17-11-8, 22=17-12 (LC 16), 18=-10 (LC 16), 19=-10 (LC 16), 20=-11 (LC 16), 19=-10 (LC 16), 20=-11 (LC 16), 21=-10 (LC 16), 22=-12 (LC 16), 24=-51 (			TEBS 1 COTES Wind: ASCE Vasd=95mpt II; Exp B; Enn (3E) -1-0-0 to zone; cantile and right exp MWFRS for 1 grip DOL=1.6 Truss design only. For stu see Standard or consult qu TCLL: ASCE Plate DOL=1 1.15 Plate DO Exp.; Ce=1.0 Unbalanced design. This truss ha load of 12.0 p overhangs m Plates check about its cen Gable require	12-17=-272/84, 1 10-19=-274/69, 9- 5-22=-282/70, 5-2 13-16=-268/40 7-16; Vult=120m n; TCDL=6.0psf; E closed; MWFRS ( to 1-11-8, Exterioriver ver left and right ( bosed; C-C for mere reactions shown; 60 ed for wind loads ids exposed to wid d Industry Gable E railifed building de ; 7-16; Pr=20.0 psf OL = 1.15); Is=1.0 ; Cs=1.00; Ct=1 snow loads have s been designed psf or 2.00 times i on-concurrent with ed for a plus or m ter.	I-18=-27 20=-277, 3=-285/6 acDL=6. acD	1/72, (69, 7-21=-28( 3, 4-24=-287/ 2005; h=25ft; C 2010) and C-C Co -8 to 17-11-8 in a vertical I d forces & DOL=1.60 plat ane of the trus at to the face) ils as applicab s per ANSI/TP .: Lum DOL=1 t psf (Lum DO Cat B; Partial histoered for th er of min roof I bad of 15.4 ps ve loads. agree rotation d bearing.	9/69, 115, at. rmer eft e s , le, 15 L = y is ive f on	<ul> <li>12) Provise</li> <li>bea</li> <li>232</li> <li>at jc</li> <li>10 I</li> <li>joint</li> <li>1 lb</li> <li>13) This</li> <li>load</li> <li>pan</li> <li>Bott</li> <li>14) This</li> <li>stru</li> <li>choo</li> <li>the</li> </ul>	vide me ring plat Ib uplift int 18, 7 b uplift a trush is trush on Cho is trush to 1250 els and on Cho is trush bottom <b>Charle</b>	chanic te caper at joinn 10 lb uy 41 joint 12 as bee at joint 2 as bee odb live at all p rd, non 00 b live at all p rd, non 00 b live at all p rd, non 00 short 2" gyf chord. ) Sta	al connection (by able of withstandia t 15, 12 lb uplift at joint 19, 11 21, 12 lb uplift at t at joint 24, 53 lb en designed for a e and 3.0lb dead banel points along nconcurrent with requires that a mi leathing be applied bosoum sheetrock b ndard	others) of truss to ng 1 lb uplift at joint 2, it joint 17, 10 lb uplift  b uplift at joint 20, joint 22, 3 lb uplift at o uplift at joint 16 and moving concentrated located at all mid the Top Chord and any other live loads. nimum of 7/16" ad directly to the top be applied directly to
FORCES	(lb) - Maximum Com Tension 1-2=0/41, 2-4=-428/2 5-6=-322/158, 6-7=-	pression/Maximum 214, 4-5=-366/180, 275/135, 7-9=-228/11	<ul> <li>8) Gable studs spaced at 2-0-0 oc.</li> <li>9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.</li> <li>10) * This truss has been designed for a live load of 20.0psf</li> </ul>								L 22		
BOT CHORD	9-10=-181/89, 10-11 12-13=-84/60, 13-14 2-24=0/1, 23-24=0/1 20-21=0/1, 19-20=0/ 15-16=0/0	=-135/72, 11-12=-87, =-11/0 , 22-23=0/1, 21-22=0 /1, 17-19=0/1, 16-17=	73, /1, 11 0/0, 11	3-06-00 tall b chord and an ) All bearings a	by 2-00-00 wide w by other members are assumed to b	ill fit betv e SP No.	a rectangle veen the botto 2 .	m				ALC A. G	EER. KINN

January 22,2025

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TRENCO A MITEK Affiliate

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

Job	Truss	Truss Type	Qty	Ply	The Farm at Neills Creek Lot 00.0049 Roof	
2501-0707-A	G1	Monopitch	45	1	Job Reference (optional)	170910853

Run: 8.83 S. Dec. 4 2024 Print: 8.830 S.Dec. 4 2024 MiTek Industries. Inc. Tue. Jan 21 11:35:56 ID:rsWG3DCNefEXTDjW5MZJplzumud-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

0-3-4

Page: 1

-1-0-0 17-11-8 5-11-5 12-3-6 17-8-4  $\vdash$ 5-11-5 6-4-2 5-4-14 0-3-4 1-0-0 17-11-8 2x4 🛛 8 7 3x4 21 20 712 6 3x4 🖌 11-0-11 10 11-4-12 2x4, 4 3x4 🍬 18 17 ٦ 0-7-0 22 12 23 11 24 25 10 4x6 II 9 3x4= MT20HS 3x12 = 6x6= 17-11-8 8-8-12 17-8-4 Н 8-11-8 8-8-12

#### Scale = 1:70.7

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	0.71	Vert(LL)	-0.47	10-12	>444	360	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.64	10-12	>328	240	MT20HS	187/143
TCDL	10.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.02	2	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.02	12-15	>999	240		
BCDL	10.0										Weight: 109 lb	FT = 20%
	E) All plates are MT20 plates upless showing indicated											

LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP SS
WEBS	2x4 SP No.3
SLIDER	Left 2x4 SP No.3 1-6-0
BRACING	
TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied.
WEBS	1 Row at midpt 6-10, 7-10
REACTIONS	(size) 2=0-3-8, 10= Mechanical
	Max Horiz 2=237 (LC 16)
	Max Uplift 10=-49 (LC 16)
	Max Grav 2=867 (LC 34), 10=892 (LC 34)
FORCES	(lb) - Maximum Compression/Maximum
	Tension
TOP CHORD	1-2=0/47, 2-4=-1095/0, 4-6=-931/0,
	6-7=-114/66, 7-8=-11/0
BOT CHORD	2-12=-118/1014, 10-12=-61/479, 9-10=0/0
WEBS	4-12=-344/114, 6-12=0/748, 6-10=-815/104,
	7-10=-299/50

#### NOTES

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior (1) 2-0-0 to 17-11-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 2) Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.

- 5) All plates are MT20 plates unless otherwise indicated. Plates checked for a plus or minus 5 degree rotation
- 6)
- about its center. 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 8)
- on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearings are assumed to be: Joint 2 SP SS ۹)
- Refer to girder(s) for truss to truss connections.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 10.
- 12) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads. 13) This truss design requires that a minimum of 7/16"
- structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

LOAD CASE(S) Standard



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Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	The Farm at Neills Creek Lot 00.0049 Roof	
2501-0707-A	B1G	Common Supported Gable	3	1	Job Reference (optional)	170910854

## Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Tue Jan 21 11:35:54 ID:InzCS5uBggtgGkQQII38VHzumsR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Page: 1



18-0-0

Scale	= '	1:49	.6

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 15.4/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021	1/TPI2014	CSI TC BC WB Matrix-AS	0.23 0.23 0.26	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a 0.00	(loc) - - 11	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 117 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS OTHERS BRACING TOP CHORD BOT CHORD REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 Structural wood she except end verticals Rigid ceiling directly (size) 11=18-0-1 14=18-0-1 21=18-0-1 Max Horiz 21=-131 ( Max Uplift 11=-108 ( 13=-2 (LC 15=-7 (LC 19=-10 (L 21=-23 (L Max Grav 11=281 (I 15=-334 (I 15=-334 (I 15=-334 (I 20=-342 (I 20=-342 (I	eathing directly applied i. r applied. 0, 12=18-0-0, 13=18-1 0, 15=18-0-0, 16=18-1 0 (LC 13), 12=-109 (LC 17), 14=-14 (LC 17) C 17), 17=-8 (LC 16), C 16), 20=-39 (LC 13) IC 12) LC 80), 12=328 (LC 7 LC 78), 14=332 (LC 7 LC 76), 16=327 (LC 7 LC 74), 19=330 (LC 7 LC 74), 19=330 (LC 7 LC 74), 19=330 (LC 7 LC 72), 21=293 (LC 7 LC 7	1) 2) 4, 2-0, 2-0, 3) 2-0, 3), 4) 5), 5), 5), 6) 3), 7), 1) 7), 6) 3), 7), 1)	Unbalanced this design. Wind: ASCE Vasd=95mpH II; Exp B; En (3E) 0-1-12 t Corner(3R) & 17-10-4 zone vertical left a forces & MW DOL=1.60 pH Truss design only. For stu see Standard or consult qu TCLL: ASCE Plate DOL=1 1.15 Plate DD Exp.; Ce=1.0 Unbalanced design. Plates check about its cen Gable requir	roof live loads ha 7-16; Vult=120m r; TCDL=6.0psf; E closed; MWFRS i o 3-1-12, Exterior i-3-7 to 11-3-7, E: c; cantilever left a dright exposed; FRS for reactions ate grip DOL=1.6 ed for vind loads ds exposed to wid lndustry Gable E alified building de 7-16; Pr=20.0 ps JCL = 1.15); Is=1.0 c; Cs=1.00; Ct=1. snow loads have ed for a plus or m ter.	ve been ( ph (3-sec 3CDL=6. (enveloper (2N) 3-1: xterior(2N nd right e C-C for n s shown; 0 in the pl. nd (norm End Deta signer as of (roof LL f; Pf=15.4 ); Rough 10 been cor hinus 5 de tom chor	considered for ond gust) Opsf; h=25ft; (C) 9) and C-C Co 12 to 8-3-7, 4) 11-3-7 to embers and Lumber ane of the trus al to the face) ils as applicat s per ANSI/TP .: Lum DOL=1 Psf (Lum DO Cat B; Partial sidered for th egree rotation d bearing.	Cat. orner ble, 11. .15 DL = ly is	<ul> <li>14) This load pan Bott</li> <li>15) This structure cho the</li> <li>LOAD C</li> </ul>	s truss h d of 250. els and com Cho s truss d ctural w rd and 1 bottom o <b>CASE(S</b> )	as bee Olb live at all p rd, non esign i ood sh /2" gyj chord. ) Sta	en designed for a e and 3.0lb dead anel points along neoncurrent with a requires that a mi eeathing be applie bosum sheetrock b ndard	moving concentrated located at all mid   the Top Chord and any other live loads. nimum of 7/16" :d directly to the top the applied directly to
FORCES	(lb) - Maximum Com Tension 1-21=-272/52, 1-2=- 3-4=-98/170, 4-5=-1 6-7=-99/170, 7-8=-8 9-10=-117/101, 10-7	npression/Maximum 85/70, 2-3=-85/123, 20/213, 5-6=-120/213 3/122, 8-9=-86/77, 11=-266/70	8) 9) 10 3, 11	Thiss to be i braced again Gable studs ) This truss ha chord live loa ) * This truss h	ist lateral movem spaced at 2-0-0 c s been designed ad nonconcurrent las been designe o chord in all area	for a 10.0 for a 10.0 with any d for a liv	o psf bottom other live load e load of 20.0	ds. psf			A.	ORTEESS	
BOT CHORD	20-21=-89/94, 19-20 16-17=-89/94, 15-10 13-14=-89/94, 12-13 5-16=-270/38, 4-17= 2-20=-289/84, 6-15= 8-13=-283/74, 9-12=	0=-89/94, 17-19=-89/9 6=-89/94, 14-15=-89/9 8=-89/94, 11-12=-89/9 =-280/62, 3-19=-279/7 =-280/62, 7-14=-280/7 =-282/99	94, 94, 94 12 73, 13 73,	3-06-00 tall b chord and ar ) All bearings a ) N/A	y 2-00-00 wide w y other members are assumed to b	e SP No.	2 .	m		IIII.	IIIIII K	0363	22 EER HALL
NOTES												A. G	ILBERT

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A MITEK Affilik 818 Soundside Road Edenton, NC 27932

January 22,2025

Job	Truss	Truss Type	Qty	Ply	The Farm at Neills Creek Lot 00.0049 Roof	
2501-0707-A	B1	Common	21	1	Job Reference (optional)	170910855

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Tue Jan 21 11:35:54 ID:qNf8HM7E5WBQyA3zd6uWUHzumpY-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



#### MT20HS 3x8 =

		L	8-3-7			18	3-0-0						
Scale = 1:51		Γ	8-3-7	9-8-9									
_oading	(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	0.91	Vert(LL)	-0.40	6-7	>538	360	MT20	244/190	
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.53	6-7	>398	240	MT20HS	187/143	
TCDL	10.0	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.01	6	n/a	n/a	M18AHS	186/179	
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-AS		Wind(LL)	0.01	7-9	>999	240			
	10.0	1		1							Walaha 100 lh	FT 200/	

LUMBER TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP SS 2x4 SP No.3 \*Except\* 6-5:2x4 SP No.2 WFBS BRACING TOP CHORD Structural wood sheathing directly applied, except end verticals. BOT CHORD Rigid ceiling directly applied. **REACTIONS** (size) 6=0-3-8, 9=0-3-8 Max Horiz 9=-131 (LC 12) Max Grav 6=708 (LC 2), 9=708 (LC 2) FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=-155/71, 2-3=-655/76, 3-4=-660/84, 4-5=-318/57, 1-9=-306/48, 5-6=-357/49 BOT CHORD 7-9=-45/508, 6-7=-42/616

WEBS 2-7=-102/97, 3-7=-11/386, 2-9=-706/64, 4-6=-613/61, 4-7=-213/105

# NOTES

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

2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 8-3-7, Exterior(2R) 8-3-7 to 11-3-7, Interior (1) 11-3-7 to 17-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 3) Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this 4) desian.
- All plates are MT20 plates unless otherwise indicated. 5)

- 6) Plates checked for a plus or minus 5 degree rotation about its center.
- This truss has been designed for a 10.0 psf bottom 7)
- chord live load nonconcurrent with any other live loads. \* This truss has been designed for a live load of 20.0psf 8) 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.
- All bearings are assumed to be SP SS . 9)
- 10) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord

LOAD CASE(S) Standard



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Edenton, NC 27932

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Job	Truss	Truss Type	Qty	Ply	The Farm at Neills Creek Lot 00.0049 Roof	
2501-0707-A	VG7	Valley	5	1	Job Reference (optional)	170910856

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries. Inc. Tue Jan 21 11:36:04 ID:Fv6H1uRskKNXz8RsC1hAk6ztUQG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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18-3-12

Scale =	1:58.4
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Loading	(psf)	Spacing	2-0-0		CSI	0.62	DEFL	in n/c	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (root)	20.0	Plate Grip DOL	1.15			0.62	Vert(LL)	n/a	-	n/a	999	M120	244/190
Show (PT/Pg	J) 15.4/20.0	Lumber DOL	1.15		BC	0.99	Vert(IL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES		WB	0.32	Horiz(IL)	-0.01	5	n/a	n/a		
BCLL	0.0 *	Code	IRC20	21/1912014	Matrix-MS							Waight: 01 lb	ET - 200/
	10.0											weight. 91 lb	FT = 2076
LUMBER			3	) Truss desigr	ned for wind loads	in the pla	ane of the tru	JSS					
TOP CHOR	D 2x4 SP No.2			only. For stu	uds exposed to wi	nd (norm	al to the face	э),					
BOT CHOR	D 2x4 SP No.3			see Standar	d Industry Gable E	End Deta	ils as applica	able,					
OTHERS	2x4 SP No.3			or consult qu	alified building de	esigner a	s per ANSI/T	'PI 1.					
BRACING			4	) TCLL: ASCE	7-16; Pr=20.0 ps	sf (roof LL	.: Lum DOL=	=1.15					
TOP CHOR	D Structural wood she	eathing directly appli	ed or	Plate DOL=1	1.15); Pg=20.0 pst	f; Pf=15.4	l psf (Lum D	OL =					
	6-0-0 oc purlins.	5 ,		1.15 Plate D	OL = 1.15); ls=1.0	); Rough	Cat B; Partia	ally					
BOT CHOR	D Rigid ceiling directly	y applied or 2-2-0 oc	_	Exp.; Ce=1.0	); Cs=1.00; Ct=1.1	10							
	bracing.		5	) Unbalanced	snow loads have	been cor	nsidered for t	this					
WEBS	1 Row at midpt	3-7		design.		in a contra		-					
REACTION	S (size) 1=18-3-1	2, 5=18-3-12, 6=18-	3-12, <sup>c</sup>	) Plates check	ted for a plus or m	iinus 5 de	egree rotation	n					
	7=18-3-1	2, 9=18-3-12	-	) Cable requir	ner.	tom chor	d booring						
	Max Horiz 1=-144 (	LC 12)	י ב	) Gable stude	spaced at 4-0-0 o		u bearing.						
	Max Uplift 1=-245 (	LC 55), 6=-103 (LC 1	17), c	) This truss ha	s heen designed	for a 10 (	) nsf bottom						
	9=-107 (	LC 16)		chord live lo	ad nonconcurrent	with any	other live loa	ads					
	Max Grav 1=252 (L	C 49), 5=2 (LC 60),	6=562	0) * This truss I	has been designe	d for a liv	e load of 20.	.0psf					
	(LC 34),	7=840 (LC 55), 9=56	64 (LC	on the bottor	m chord in all area	as where	a rectangle						
	33)			3-06-00 tall I	oy 2-00-00 wide w	/ill fit betv	veen the bott	tom					
FORCES	(lb) - Maximum Cor	npression/Maximum		chord and a	ny other members	, with BC	DL = 10.0ps	sf.					
	Tension		1	1) All bearings	are assumed to b	e SP No.	3.						
TOP CHOR	D 1-2=-236/539, 2-3=	-10/521, 3-4=-28/519	<sup>9,</sup> 1	2) Provide med	hanical connectio	n (by oth	ers) of truss	to					
	4-5=-129/541		7	bearing plate	e capable of withs	tanding 2	245 lb uplift a	it joint					116
BOT CHOR	D 1-9=-357/105, 7-9=	-357/67, 0-7=-357/6	7,	1, 107 lb upl	ift at joint 9 and 10	03 lb upli	ft at joint 6.					11111 00	E III
WEBS	3-7-772/0 2-9-1	11/202 4-6441/20	1 1	<ol><li>This truss has</li></ol>	as been designed	for a mov	ving concent	rated				TH UA	ROUL
WEDS	5-1=-112/0, 2-3=-4-	+1/202, 4-0=-441/20		load of 250.0	Ib live and 3.0lb o	dead loca	ited at all mic	d .			2	A SECO	DIAN
NUIES	and modeling loads hour	haan aanaidanad fa		panels and a	at all panel points	along the	e Top Chord	and		/	:2		N. Sit
1) Unbalar	iced root live loads have	e been considered to	or .	Bottom Choi	a, nonconcurrent	with any	other live loa	ads.		9			Nov.
2) Wind: A	iyii. SCE 7-16: \/ult=120mpl	h (3-second quet)	L	UAD CASE(S)	Standard						{Т у		1 1 1 T E
Z) Wind. A	50E 7-10, Vuii=12011pi 5mph: TCDI =6 0pef: B(	DI -6 0pef: b-25ft: i	Cat							=		SFA	
II: Exn F	S Enclosed MWERS (e	nvelope) and C-C	out.							=		0202	
Exterior	(2E) 0-0-4 to 3-0-4. Inte	rior (1) 3-0-4 to 9-2-2	2.							1	- 1	0363	22 : 2
Exterior	(2R) 9-2-2 to 12-2-2. Int	erior (1) 12-2-2 to 18	, 3-4-0							-	0		1 2
	· · · · · · · · · · · · · · · · · · ·		1.0								-	274 C	

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



GI A. GIL January 22,2025

Job	Truss	Truss Type	Qty	Ply	The Farm at Neills Creek Lot 00.0049 Roof	
2501-0707-A	V7	Valley	3	1	Job Reference (optional)	170910857

### Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Tue Jan 21 11:36:01 ID:CE80IId0ucpqqDYpu96bWRzumnc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:57

Loading	(psf)	Spacing	2-0-0	CSI	0.50	DEFL	in	(loc)	l/defl	L/d	PLATES	<b>GRIP</b>
ICLL (1001)	20.0	Plate Grip DOL	1.15		0.50	Ven(LL)	n/a	-	n/a	999	WI120	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.75	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.16	Horiz(TL)	0.00	7	n/a	n/a		
BCLL	0.0*	Code	IRC2021/TPI2014	Matrix-MS								
BCDL	10.0										Weight: 95 lb	FT = 20%
LUMBER			2) Wind: ASC	E 7-16: Vult=120	mph (3-sec	cond aust)		14) This	truss h	as bee	n designed for a	moving concentrated

TOP CHORD BOT CHORD OTHERS	2x4 SP N 2x4 SP N 2x4 SP N	o.2 o.3 o.3
BRACING		
TOP CHORD	Structural 6-0-0 oc t	wood sheathing directly applied or
BOT CHORD	Rigid ceil bracing.	ing directly applied or 10-0-0 oc
WEBS	1 Row at	midpt 4-10
REACTIONS	(size)	1=18-7-12, 7=18-7-12, 8=18-7-12, 9=18-7-12, 10=18-7-12, 12=18-7-12, 13=18-7-12
	Max Horiz	1=-146 (LC 14)
	Max Uplift	1=-82 (LC 45), 7=-82 (LC 48), 8=-29 (LC 17), 9=-91 (LC 17),
	Max Grav	12=-91 (LC 16), 13=-34 (LC 16) 1=260 (LC 51), 7=260 (LC 59), 8=390 (LC 73), 9=460 (LC 34), 10=373 (LC 71), 12=459 (LC 33), 13=390 (LC 69)
FORCES	(lb) - Max Tension	imum Compression/Maximum
TOP CHORD	1-2=-192/	/138, 2-3=-183/101, 3-4=-192/137, /133_5-6=-154/85_6-7=-192/138
BOT CHORD	1-13=-87/	'118, 12-13=-54/114, 10-12=-54/114, '114, 8-954/114, 7-887/118
WEBS	4-10=-200 2-13=-40	6/28, 3-12=-339/184, 7/138, 5-9=-339/184, 6-8=-407/138

NOTES

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

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior (1) 3-0-0 to 9-3-14, Exterior(2R) 9-3-14 to 12-3-14, Interior (1) 12-3-14 to 18-7-12 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 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Unbalanced snow loads have been considered for this design.
- 6) Plates checked for a plus or minus 5 degree rotation about its center.
- 7) Gable requires continuous bottom chord bearing.
- 8) 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.
- 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, with BCDL = 10.0psf.
- 11) All bearings are assumed to be SP No.3.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 82 lb uplift at joint 1, 82 lb uplift at joint 7, 91 lb uplift at joint 12, 34 lb uplift at joint 13, 91 lb uplift at joint 9 and 29 lb uplift at joint 8.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 7.

14) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads. LOAD CASE(S) Standard



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818 Soundside Road

Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	The Farm at Neills Creek Lot 00.0049 Roof	
2501-0707-A	M1A	Piggyback Base	10	1	Job Reference (optional)	170910858

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Tue Jan 21 11:35:57 ID:odOS?XT6jXz038KMhk2cTIzun\_k-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



20-2-12 8-1-12 15-8-10 8-1-12 7-6-14 4-6-2 0-3-4

Scale = 1:83.8

Plate Offsets	(X, Y): [1:Edge,0-1-12]	, [4:0-6-0,0-2-4]											
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 20.4/20.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021	/TPI2014	CSI TC BC WB Matrix-AS	0.94 0.53 0.80	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.25 -0.32 0.01 0.01	(loc) 11-12 11-12 8 9-11	l/defl >971 >745 n/a >999	L/d 360 240 n/a 240	PLATES MT20 MT20HS Weight: 155 lb	<b>GRIP</b> 244/190 187/143 FT = 20%
LUMBER TOP CHORD BOT CHORD WEBS BRACING TOP CHORD WEBS REACTIONS FORCES TOP CHORD BOT CHORD	2x4 SP No.2 2x4 SP SS 2x4 SP No.3 *Except Structural wood sheat except end verticals, (10-0-0 max.): 4-6. Rigid ceiling directly: 1 Row at midpt (size) 8= Mechan Max Grav 8=983 (LC (lb) - Maximum Comp Tension 1-3=-1104/0, 3-4=-58 1-12=-935/0 11-12=-274/270, 9-11 7-8=0/0	t* 12-1:2x4 SP No.2 athing directly applied, and 2-0-0 oc purlins applied. 3-9, 4-8, 5-8 nical, 12=0-3-8 C 16) (6) 2 49), 12=1011 (LC 49 pression/Maximum 37/7, 4-5=0/0, 5-6=0/0 1=-126/972, 8-9=-41/4	3) 4) 5) 6) 7) 8) 9) ) 10) 11) 12) 408,	TCLL: ASCE Plate DOL=1 1.15 Plate DO Exp.; Ce=1.0 Unbalanced design. Provide adec All plates are Plates check about its cen This truss ha chord live loa * This truss h on the bottom 3-06-00 tall b chord and ar Bearings are Refer to girdd Provide mecl bearing plate	7-16; Pr=20.0 psf .15); Pg=20.0 psf; DL = 1.15); Is=1.0; Cs=1.00; Ct=1.11 snow loads have b uate drainage to p MT20 plates unle ed for a plus or mit ter. s been designed fu d nonconcurrent v has been designed n chord in all areas by 2-00-00 wide will y other members, assumed to be: de er(s) for truss to tru- hanical connection	(roof LL Pf=20.4 Rough ), Lu=50 een cor revent v ss other hus 5 de or a 10.0 vith any for a liv with BC bint 12 S ss conr (by oth unding 7	L: Lum DOL=' Ppsf (Lum DC Cat B; Partial )-0-0 isidered for the water ponding wise indicate agree rotation 0 psf bottom other live load e load of 20.0 a rectangle veen the bottoc DL = 10.0psf SP SS nections. ers) of truss to ' lb uplift at jointime 	1.15 DL = Illy d. ds. Dpsf om om t 8.					
WEBS NOTES 1) Unbalancı this desig 2) Wind: ASI Vasd=95r	3-11=-34/294, 3-9=-7 4-8=-1076/107, 1-11: ed roof live loads have I n. CE 7-16; Vult=120mph nph; TCDL=6.0psf; BCI	784/117, 4-9=-1/808, =0/775, 5-8=-295/26 been considered for (3-second gust) DL=6.0psf; h=25ft; Ca	13) 14) t.	This truss ha load of 250.0 panels and a Bottom Chorr This truss de structural wo chord and 1/2	s been designed fr lb live and 3.0lb de t all panel points a d, nonconcurrent v sign requires that od sheathing be ap 2" gypsum sheetro	or a move ad location long the vith any a minim oplied d ck be a	ving concentra ted at all mid Top Chord a other live loa um of 7/16" irectly to the t oplied directly	ated ind ds. op v to		4		OR FESE	ROLIN

II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 15-6-14, Exterior(2R) 15-6-14 to 18-6-14, Interior (1) 18-6-14 to 20-6-0 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

- the bottom chord.
- 15) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- LOAD CASE(S) Standard



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Job	Truss	Truss Type	Qty	Ply	The Farm at Neills Creek Lot 00.0049 Roof	
2501-0707-A	M1AG	Piggyback Base Supported Gable	2	1	Job Reference (optional)	170910859

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Tue Jan 21 11:35:57 ID:97FCBsxaXVuUE7psTQFmYWzun\_7-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:83.8

Plate Offsets (X, Y): [11:0-2-0,0-2-5]

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	20	(psf) 20.0 ).4/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC202	1/TPI2014	CSI TC BC WB Matrix-AS	0.71 0.40 0.28	DEFL Vert(LL) Vert(TL) Horiz(TL)	in n/a n/a -0.16	(10	oc) - - 15	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 194 lb	<b>GRIP</b> 244/190 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS DTHERS BRACING TOP CHORD WEBS REACTIONS	2x4 SP No 2x4 SP No 2x4 SP No 2x4 SP No Structural except en (10-0-0 m Rigid ceili 1 Row at 1 (size) Max Horiz Max Uplift Max Grav (lb) - Maxi Tension	D.2 D.2 D.2 D.2 November 2012 Solution 22 D.3 Wood sheat d verticals, ax.): 11-15 midpt 15=20-6-0 22=20-6-0 28=20-6-0 29=304 (L 15=354 (	<ul> <li>* 14-17:2x4 SP No.3</li> <li>athing directly applied, and 2-0-0 oc purlins.</li> <li>applied.</li> <li>14-17, 13-18, 12-19, 10-20, 9-22, 8-23</li> <li>16=20-6-0, 17=20-6</li> <li>(19=20-6-0, 24=20-6</li> <li>(29=20-6-0, 27=20-6)</li> <li>(26=20-6-0, 27=20-6)</li> <li>(26), 16=-232 (LC 9)</li> <li>(C 16), 23=-11 (LC 16), (C 16), 23=-11 (LC 16), (C 75), 16=60 (LC 97)</li> <li>(C 98), 18=332 (LC 11)</li> <li>(L 106), 23=333 (LC 108), 20=333 (LC 108), 20=333 (LC 104),</li> <li>(C 103), 26=327 (LC 254 (LC 101), 28=352</li> <li>pression/Maximum</li> </ul>	TC BC 3-0, NC 3-0, 1) 3-0, 2) 8), 2) 8), 3) 2 4) 5) 6) 7)	DP CHORD DT CHORD EBS Unbalanced this design. Wind: ASCE Vasd=95mpi II; Exp B; En (3E) 0-1-12 t Corner(3R) 1 20-6-0 zone; vertical left a forces & MW DOL=1.60 pl Truss design only. For stu see Standard or consult qu TCLL: ASCE Plate DOL=1 1.15 Plate D Exp.; Ce=1.0 Unbalanced design. Provide adec Plates check about its cen	1-28=-478/811, 1-2= 3-4=-232/131, 4-6=- 7-8=-140/89, 8-9=-9 10-11=-106/35, 11-1 13-14=0/0, 14-15=0 27-28=0/0, 26-27=0, 23-24=0/0, 22-23=0 18-19=0/0, 17-18=0, 14-17=-134/18, 13-1 12-19=-265/46, 10-2 9-22=-270/63, 8-23- 5-25=-277/86, 4-26= 2-28=-1257/695 roof live loads have 7-16; Vult=120mph n; TCDL=6.0psf; BC closed; MWFRS (er o 3-1-12, Exterior(2) 15-6-14 to 18-6-0, E cantilever left and r nd right exposed; C- YRS for reactions s tate grip DOL=1.60 ted for wind loads in tids exposed to wind d Industry Gable En talified building desi 7-16; Pr=20.0 psf; F OL = 1.15); Is=1.0; ); Cs=1.00; Ct=1.10 snow loads have be quate drainage to pri- ted for a plus or min ter.	190/3 236/33 (226/07, 9 (22-0/0, 12-2	106, 2-3=-470,         12, 6-7=-182/1         1-10=-75/73,         12-13=0/0,         26=0/0, 24-25         22=0/0, 19-20         17=0/0         5/51,         7/61,         14, 7-24=-274,         , 3-27=-323/4         considered fo         cond gust)         0psf; h=25ft; 0         p) and C-C Cc         12 to 15-6-14         2N) 18-6-0 tc         posed ; end         nembers and         Lumber         ane of the true;         al to the face/j         is as applicat         s per ANSI/TF         .: Lum DOL='         p sf (Lum DC)         cat B; Partial         >0-0         usidered for th         water ponding         agree rotation	/262, 106, i=0/0, i=0/0, /60, 163, r Cat. orner i, o ss o ble, PI 1. 1.15 DL = Ily his g.	8) 9) 10) 11) 12) 13) 14) 15)	Gabli Truss brace Gabli This chore * This chore * This on th 3-06- chore All be Provi beari 228, 2 uplift 228, 2 uplift Deari Botto	e requii s to be ed agai e truss ha d live lo s truss se botto -00 tall d and a earings ide mec ing plat 32 lb up at joint 1 lb up Int 25 an truss ha com Cho	res coordination of the second	ntinuous bottom neathed from on eral movement ( ad at 2-0-0 oc. en designed for a nconcurrent with een designed for d in all areas w 0-00 wide will fit er members. ssumed to be SF al connection (b able of withstance joint 16, 16 lb uy lib uplift at joint 2 oint 23, 6 lb uplift l lb uplift at joint 2 oint 23, 6 lb uplift l buplift at joint 2 oint 20, 10 buplift and 3.0lb dead anel points alon nconcurrent with SEA 0363	chord bearin e face or sec i.e. diagonal 10.0 psf boi any other liv a live load o here a rectar between the 'No.2. y others) of th ing 141 lb up Jiff at joint 12 0, 11 lb uplif t at joint 24, 3 27. a moving con l located at a g the Top Ct any other liv	ng. purely web). ttom re loads. of 20.0psf ngle a bottom russ to olift at joint 5, 62 lb t at joint 31 lb uplift centrated Il mid nord and re loads.

January 22,2025

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Continued on page 2 Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTER REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTeR% 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 **ANSUTPH Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) with the Section of the prevent collapse contervent for the Section of the prevent of the prevent of the prevent of the prevent for the term between the prevent of the prevent and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

Job	Truss	Truss Type	Qty	Ply	The Farm at Neills Creek Lot 00.0049 Roof	
2501-0707-A	M1AG	Piggyback Base Supported Gable	2	1	Job Reference (optional)	170910859
Structural, LLC, Thurmont, MD -	21788,	Run: 8.83 S Dec 4 2	024 Print: 8.8	330 S Dec 4	2024 MiTek Industries, Inc. Tue Jan 21 11:35:57	Page: 2

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16) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

17) 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

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Job	Truss	Truss Type	Qty	Ply	The Farm at Neills Creek Lot 00.0049 Roof	
2501-0707-A	VG8	Valley	5	1	Job Reference (optional)	170910860

2x4 II

31

5

2x4 II

30

20-7-12

4x4= 6

2x4 II

7

2x4 u

8 2x4 II

34

9 2x4 II

35

PLATES

MT20

GRIP

244/190

33

32

10-0-0

10-0-0

12 12

2x4 🛚 4

29

2x4 II 3

28

27 2

25 26

3x4 🖌

37 0-4-2 ⊤

2-0-0

1.15

1.15

0-4-2

Structural LLC Thurmont MD - 21788

Scale = 1:72.7

Loading

TCLL (roof)

Snow (Pf/Pg)

Plate Offsets (X, Y): [1:0-2-7,Edge], [11:0-2-7,Edge]

(psf)

20.0

15.4/20.0

Spacing

Plate Grip DOL

Lumber DOL

Run: 8.83 S. Dec. 4 2024 Print: 8.830 S.Dec. 4 2024 MiTek Industries. Inc. Tue. Jan 21 11:36:04 ID:0j7kHRkYr0W\_T\_rfAnd1FNztUPt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

20-0-0

10-0-0



10 36 \*\*\*\* 38 20 39 19 40 18 41 17 42 16 43 15 44 14 45 13 46 12 47 2x4 II 2x4 II 6x6= 2x4 II 2x4 II 2x4 II 2x4 II 2x4 II 2x4 II 3x4、 20-0-0 CSI DEFL in l/defl L/d (loc) TC 0.23 Vert(LL) 999 n/a n/a BC 0.33 Vert(TL) n/a n/a 999 WB Horiz(TL) 0.34 0.00 11 n/a n/a Matrix-MS

TCDL Rep Stress Incr 10.0 YES BCLL 0.0 IRC2021/TPI2014 Code Weight: 143 lb BCDL 10.0 FT = 20% LUMBER BOT CHORD 1-20=-84/162, 19-20=-84/138, 10) \* This truss has been designed for a live load of 20.0psf 18-19=-84/138, 17-18=-84/138, on the bottom chord in all areas where a rectangle TOP CHORD 2x4 SP No 2 15-17=-84/138, 14-15=-84/138, 3-06-00 tall by 2-00-00 wide will fit between the bottom BOT CHORD 2x4 SP No 3 13-14=-84/138, 12-13=-84/138, chord and any other members. OTHERS 2x4 SP No.3 11) All bearings are assumed to be SP No.3 . 11-12=-84/138 BRACING WEBS 6-16=-189/73. 5-17=-280/88. 4-18=-280/82. 12) Provide mechanical connection (by others) of truss to TOP CHORD Structural wood sheathing directly applied or 3-19=-282/78, 2-20=-295/63, 7-15=-280/88, bearing plate capable of withstanding 42 lb uplift at joint 6-0-0 oc purlins. 8-14=-280/83. 9-13=-283/75. 10-12=-291/74 1, 23 lb uplift at joint 11, 37 lb uplift at joint 17, 40 lb uplift BOT CHORD Rigid ceiling directly applied or 6-0-0 oc at joint 18, 43 lb uplift at joint 19, 23 lb uplift at joint 20, NOTES bracing. 35 lb uplift at joint 15, 42 lb uplift at joint 14, 37 lb uplift at 1) Unbalanced roof live loads have been considered for WEBS 1 Row at midpt 6-16 joint 13 and 44 lb uplift at joint 12. this design **REACTIONS** (size) 1=20-7-12, 11=20-7-12, 13) Beveled plate or shim required to provide full bearing Wind: ASCE 7-16: Vult=120mph (3-second gust) 2) 12=20-7-12, 13=20-7-12, surface with truss chord at joint(s) 1. Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. 14=20-7-12, 15=20-7-12, 14) This truss has been designed for a moving concentrated II; Exp B; Enclosed; MWFRS (envelope) and C-C 16=20-7-12, 17=20-7-12, load of 250.0lb live and 3.0lb dead located at all mid Exterior(2E) 0-0-4 to 3-0-4, Interior (1) 3-0-4 to 10-4-2, 18=20-7-12, 19=20-7-12, panels and at all panel points along the Top Chord and Exterior(2R) 10-4-2 to 13-4-2, Interior (1) 13-4-2 to 20=20-7-12 Bottom Chord, nonconcurrent with any other live loads. 20-4-0 zone; cantilever left and right exposed ; end Max Horiz 1=162 (LC 13) LOAD CASE(S) Standard vertical left and right exposed;C-C for members and Max Uplift 1=-42 (LC 14), 11=-23 (LC 15) forces & MWFRS for reactions shown; Lumber 12=-44 (LC 17), 13=-37 (LC 17), DOL=1.60 plate grip DOL=1.60 14=-42 (LC 17), 15=-35 (LC 17), 3) Truss designed for wind loads in the plane of the truss 17=-37 (LC 16), 18=-40 (LC 16), only. For studs exposed to wind (normal to the face), 19=-43 (LC 16), 20=-23 (LC 16) see Standard Industry Gable End Details as applicable, ORT Max Grav 1=294 (LC 55), 11=288 (LC 67), or consult qualified building designer as per ANSI/TPI 1. 12=343 (LC 89), 13=330 (LC 88), TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 14=333 (LC 87), 15=335 (LC 86), Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 16=322 (LC 85), 17=335 (LC 84), 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially VIII III IIII IIIII 18=334 (LC 83), 19=327 (LC 82), Exp.: Ce=1.0: Cs=1.00: Ct=1.10 20=354 (LC 81) Unbalanced snow loads have been considered for this SEAL 5) FORCES (lb) - Maximum Compression/Maximum design. Tension 036322 Plates checked for a plus or minus 5 degree rotation 6) TOP CHORD 1-2=-260/145, 2-3=-135/113, 3-4=-110/97, about its center. 4-5=-134/83, 5-6=-149/148, 6-7=-149/144, 7) Gable requires continuous bottom chord bearing. 7-8=-133/79, 8-9=-111/96, 9-10=-111/96, 8) Gable studs spaced at 2-0-0 oc. 10-11=-169/111

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

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G mmm January 22,2025

and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com) Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	The Farm at Neills Creek Lot 00.0049 Roof	
2501-0707-A	VGE1	Valley	3	1	Job Reference (optional)	170910861

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Tue Jan 21 11:36:04 ID:9nUBGxIaO0BFOR5K\_7bz6XzumIS-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



					20-3-0								
Scale = 1:73.2			ſ										
Plate Offsets (X, Y	): [1:0-1-6,Edge],	[9:0-1-6,Edge]											
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	0.49	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
	45 4/00 0	Lunch an DOI	4 4 5		0.04	$\lambda (z, z) (T   \lambda)$	- 1-		- 1-	000			

Snow (Pf/Pa)	15.4	/20.0	Lumber DOI	1 15		BC	0.81	Vert(TL)	n/a	-	n/a	999			
TCDI		10.0	Rep Stress Incr	YES		WB	0.39	Horiz(TL)	-0.01	9	n/a	n/a			
BCU		0.0*	Code	IRC202	I/TPI2014	Matrix-MS	0.00	110112(112)	0.01	0	n/a	n/a			
BCDI		10.0	0000	11(0202		Matrix Me							Weight: 134 lb	FT = 20%	
LUMBER				1)	Unbalanced	roof live loads h	ave been o	considered fo	or	13) Beve	eled pla	te or s	shim required to p	provide full be	earing
TOP CHORD	2x4 SP No.2	2			this design.					surfa	ace with	truss	chord at joint(s)	1, 21.	
BOT CHORD	2x4 SP No.3	3		2)	Wind: ASCE	7-16; Vult=120r	nph (3-sec	cond gust)	<b>.</b> .	14) This	truss h	as bee	en designed for a	moving con	centrated
OTHERS	2x4 SP No.3	3			Vasd=95mpr	i; ICDL=6.0psf;	BCDL=6.0	Upst; h=25tt;	Cat.	load	of 250.	OID IIV	e and 3.0lb dead	located at al	l mid
BRACING					II; EXP B; EN		(envelope	e) and C-C 2 0 4 to 10 5	11	Pane	and	at all p	banel points alon	g the Top Ch	ora ana
TOP CHORD	Structural wo	ood shea	athing directly applie	ed or	Exterior(2R)	10-5-14 to 13-5.	14 Interio	or (1) 13-5-14	-14, to			N Sto		any other inv	e ioaus.
	6-0-0 oc pur	lins.			20-7-6 zone:	cantilever left a	nd right ex	posed : end	10	LUAD C	ASE(S	Jola	inuaru		
BOT CHORD	Rigid ceiling	directly	applied or 6-0-0 oc		vertical left a	nd right exposed	:C-C for n	nembers and							
WEBS	1 Row at mir	dot	1-11		forces & MW	FRS for reaction	ns shown;	Lumber							
DEACTIONS		00 11 4	0 20 11 4 10 20	11 1	DOL=1.60 pl	ate grip DOL=1.	60								
REACTIONS	(SIZE) 1=	=20-11-4 1_20_11_	, 9=20-11-4, 10=20- 4 12=20-11-4	-11-4, 3)	Truss design	ed for wind load	s in the pla	ane of the tru	ISS						
	13	3=20-11-	4 14=20-11-4		only. For stu	ds exposed to v	vind (norm	al to the face	e),						
	15	5=20-11-	4. 16=20-11-4		see Standard	Industry Gable	End Deta	ils as applica	ble,						
	Max Horiz 1=	=164 (LC	: 13)	1	or consult qu	alified building o	lesigner as	s per ANSI/11	PI 1.						
	Max Uplift 1=	=-131 (L(	C 63), 9=-1 (LC 63),	4)	Plate DOI =1	7-16; PI=20.0 p	SI (1001 LL	L: Lum DOL=	כו.ו _ ור						
	11	1=-73 (L(	C 17), 12=-37 (LC 17	7),	1 15 Plate DOL	.15), Fg=20.0 p ⊃l = 1 15)·ls=1	0. Bonap	Cat B: Partia							
	13	3=-28 (L0	C 17), 14=-7 (LC 15)	),	Exp · Ce=1 0	$C_{s=1.00}$ , $C_{t=1}$	10	Out D, I artic	any						
	15	5=-52 (L(	C 16), 16=-91 (LC 16	6) 5)	Unbalanced	snow loads have	e been cor	nsidered for t	his						
	Max Grav 1=	=298 (LC	53), 9=0 (LC 15),	- /	design.										
	10	J=357 (L	C 81), 11=323 (LC 8	<sup>80),</sup> 6)	Plates check	ed for a plus or	minus 5 de	egree rotatior	۱					1111	
	12	2=333 (L 4_492 (I	C 79), 13=340 (LC 7 C 62), 15=376 (LC 7	78), 76)	about its cen	ter.							White CA	Dalle	
	16	+=402 (L 6=517 (l	C 33)	70), 7)	Gable require	es continuous be	ottom chor	d bearing.					"aTH UP	"TON	17
FORCES	(lb) - Maximi		pression/Maximum	8)	Gable studs	spaced at 2-0-0	OC.					S.	Q EFSS	6 4	Sec.
TOROLO	Tension		pression/maximum	9)	This truss ha	s been designe	d for a 10.0	) pst bottom			/	$\leq \leq$		- Air	1/2-
TOP CHORD	1-2=-290/34	6 2-3=-1	125/344 3-4=-142/3	18 40	Chord live loa	a nonconcurrer	it with any	other live loa	ids.		2		IST _		
	4-5=-133/31	8, 5-6=-9	0/336, 6-7=-59/336	, 10	on the botton	as been design	ed for a liv	a rectangle	opsi		-				- E
	7-8=-97/310	, 8-9=-68	3/353		3-06-00 tall h	v 2-00-00 wide	will fit hetw	a rectangle	om				SEA	۲L ۲	-
BOT CHORD	1-16=-223/2	02, 14-1	6=-225/49,		chord and an	v other member	s with BC	DI = 10.00st	f		Ξ.		0363	22	
	13-14=-225/	49, 12-1	3=-225/49,	11	) All bearings	are assumed to	be SP No.	3.			-		: 0000		5
	11-12=-225/	49, 10-1	1=-225/49, 9-10=-22	<sup>25/49</sup> 12	) Provide mecl	hanical connecti	on (by oth	ers) of truss t	to		-		N		2
WEBS	4-14=-454/1	31, 3-15	=-306/131,		bearing plate	capable of with	standing 1	31 Ib uplift at	t joint			2.	A. En	Rik	5
	2-16=-347/1	64, 5-13	=-283/82, 6-12=-279	9/82,	1, 1 lb uplift a	at joint 9, 7 lb up	lift at joint	14, 52 lb upli	ft at			21	GIN	EFIA	5
	7-11=-280/8	9, 8-10=	-298/04		joint 15, 91 lb	o uplift at joint 16	6, 28 lb upl	lift at joint 13,	37			1	C	BE	1
NOTES					Ib uplift at join	nt 12, 73 lb uplif	t at joint 11	1 and 1 lb upl	lift at				11, A. C	11-111	
					joint 9.								11111	um.	
													Januar	y 22,2025	

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Job	Truss	Truss Type	Qty	Ply	The Farm at Neills Creek Lot 00.0049 Roof	
2501-0707-A	A2SG	Common Structural Gable	1	1	Job Reference (optional)	0910862

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Tue Jan 21 11:35:53 ID:2tH4wfC63QmS5HSvmgtapwzum4z-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

1	6-10-10	13-5-12	22-2-8	1
-	6-10-10	6-7-2	8-8-12	Г
		22-2-8		



		M	T20HS 3x8 II		
	3-8-4	10-1-0	16-8-6	22-2-8	
Scale = 1:70.9	3-8-4	6-4-12	6-7-7	5-6-2	
Plate Offsets (X_Y): [12:0-1-0 0-1-8] [12:0-3-0 0-2-8]					

late Olisets (	λ, Ι). [12.0-1-	0,0-1-0]	, [12.0-3-0,0-2-0]													
L <b>oading</b> TCLL (roof) Snow (Pf/Pg) TCDL 3CLL 3CDL	( 15.4/2	(psf) 20.0 20.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC20	21/TPI2014	CSI TC BC WB Matrix-AS	0.60 0.42 0.64	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.03 -0.04 0.00 0.00	(loc) 22-23 22-23 29 22-23	l/defl >999 >999 n/a >999	L/d 360 240 n/a 240	PLATES MT20 MT20HS Weight: 192 I	<b>GRIP</b> 244/19 187/14 b FT = 2	90 43 20%	
LUMBER TOP CHORD BOT CHORD WEBS DTHERS SLIDER BRACING TOP CHORD	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 Right 2x4 SP Structural wo except end vo	No.3 pod shea erticals.	1-6-0 athing directly applie	ed,	WEBS NOTES	22-24=-243/88, 7-28=-214/0, 14 18-25=-83/121, 7-27=0/241, 3-2 4-25=-190/51, 17-26=-177/65, 16-27=-335/19, 15-28=-331/60,	, 3-24=-140/ 4-28=-199/0 , 18-26=0/25 21=0/308, 2 19-25=-155/ , 6-27=-322/ , 8-28=-326/ , 10-13=-337	83, 1-22=-26 , 3-25=-88/13 3, 26-27=0/2 -24=-172/54, 85, 5-26=-23 16, 63, 7/80	/345, 34, 247, 1/49,	<ol> <li><sup>*</sup> 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.</li> <li>11) Bearings are assumed to be: , Joint 12 SP No.2 .</li> <li>12) Refer to girder(s) for truss to truss connections.</li> <li>13) N/A</li> </ol>						
BOT CHORD JOINTS REACTIONS	except end verticals. Rigid ceiling directly applied. 1 Brace at Jt(s): 24, 25, 28 (size) 12=9-3-8, 13=9-3-8, 14=9-3-8, 15=9-3-8, 16=9-3-8, 23= Machanical Max Horiz 23=-187 (LC 14) Max Uplift 13=-38 (LC 17), 15=-19 (LC 17) Max Grav 12=309 (LC 86), 13=402 (LC 84), 14=357 (LC 83), 15=374 (LC 82), 16 (10 (LC C0), 25 (50 (LC 82), 16 (LC C0), 25 (50 (LC 82), 16 (LC C0), 25 (50 (LC 82), 17 (LC 83), 15=374 (LC 82), 18 (LC 17), 15=-19 (LC 17) 18 (LC 17), 15=-19 (LC 17) 18 (LC 17), 15=-19 (LC 17) 19 (LC 17)				ad.       1) Unbalanced foor live loads have been considered for this design.       14) T         -3-8, 14=9-3-8, -3-8, 23=       2) Wind: ASCE 7-16; Vult=120mph (3-second gust)       16         -3-8, 14=9-3-8, -3-8, 23=       11; Exp B; Enclosed; MWFRS (envelope) and C-C       16         10       11-9-14, Exterior(2E) 4-10-13 to 7-10-13, Interior (1) 7-10-13 to 15) T       15) T         11       11-9-14, Exterior(2R) 11-9-14 to 14-9-14, Interior (1) s       14-9-14 to 26-11-9 zone; cantilever left and right c         13=402 (LC 84), 15=374 (LC 82), 23=376 (LC 2)       14-9-14, Ioores & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60       LOAI							as bee Olb live at all p ord, nor esign r ood sh /2" gy chord. ) Sta	en designed for e and 3.0lb dea aanel points alo nconcurrent wit requires that a heathing be app posum sheetrock ndard	a moving d located ng the Top h any othe minimum d lied direct t be applie	concentrated at all mid o Chord and or live loads. of 7/16" dy to the top ad directly to	
F <b>ORCES</b> TOP CHORD	(lb) - Maximum Compression/Maximum Tension 1-2=-362/110, 2-3=-311/142, 3-4=-348/145, 4-5=-369/123, 5-6=-354/89, 6-7=-253/68, 7-8=-122/91, 8-10=-95/92, 10-12=-319/58, 1-23=-556/52				<ol> <li>Truss design only. For stu see Standar or consult qu</li> <li>TCLL: ASCE Plate DOL='</li> </ol>	only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL =							ARO	No C		
3OT CHORD	<ul> <li>1-23=-550/52</li> <li>22-23=-128/177, 21-22=-2/273,</li> <li>19-21=-3/272, 18-19=-3/272, 17-18=-15/145,</li> <li>16-17=-15/145, 15-16=-15/145,</li> <li>14-15=-15/145, 13-14=-35/59, 12-13=-35/59</li> </ul>				1.15 Plate DDL = 1.15); IS=1.0; Rough Cat B; Partially         Exp.; Ce=1.0; CS=1.00; Ct=1.10         Unbalanced snow loads have been considered for this design.         All plates are MT20 plates unless otherwise indicated.         Plates checked for a plus or minus 5 degree rotation about its center.							4L 322				

- 8) Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

818 Soundside Road Edenton, NC 27932

January 22,2025

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Job	Truss	Truss Type	Qty	Ply	The Farm at Neills Creek Lot 00.0049 Roof	
2501-0707-A	A1C	Common	3	1	Job Reference (optional)	170910863

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Tue Jan 21 11:35:51 ID:5nu2qr7Daa5sSsIrhYnErfzum7f-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





				3-8-4	1	10-1-0	16	-8-6	1 22	2-2-8				
Socia - 1	1.70.0			3-8-4	T	6-4-12	6-	7-7	5	6-2				
Plate Off	sets (X,	Y): [1:Edge,0-1-12]	], [6:0-2-0,0-1-11]											
Loading	1	(psf)	Spacing	2-0-0		csi		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (ro	of)	20.0	Plate Grip DOL	1.15		тс	0.91	Vert(LL)	-0.21	7-8	>999	360	MT20	244/190
Snow (Pf	f/Pa)	15.4/20.0	Lumber DOL	1.15		BC	0.98	Vert(CT)	-0.27	7-8	>986	240	-	
TCDL	0,	10.0	Rep Stress Incr	YES		WB	0.45	Horz(CT)	0.02	6	n/a	n/a		
BCLL		0.0*	Code	IRC2021	/TPI2014	Matrix-AS		Wind(LL)	0.04	7-14	>999	240		
BCDL		10.0										-	Weight: 136 lb	FT = 20%
LUMBER	र			4)	Unbalance	d snow loads hav	e been cor	nsidered for	this					
TOP CHO	ORD 2	2x4 SP No.2			design.									
BOT CHO	ORD 2	2x4 SP No.2		5)	Plates cheo	ked for a plus or	minus 5 de	egree rotatio	on					
WEBS	2	2x4 SP No.3			about its ce	nter.								
SLIDER	F	Right 2x4 SP No.3	- 1-6-0	6)	This truss h	ias been designe	d for a 10.	0 psf bottom	۱					
BRACIN	G			_`	chord live lo	pad nonconcurre	nt with any	other live lo	ads.					
TOP CHO	ORD S	Structural wood shea	athing directly applie	ed, ()	^ This truss	has been design	ied for a liv	e load of 20	0.0pst					
	6	except end verticals.			2 06 00 toll	by 2 00 00 wide	eas where	a rectangle	ttom					
BOT CHO	ORD I	Rigid ceiling directly	applied.		chord and a	by 2-00-00 wide	rs with BC	DI = 10.00	sf					
WEBS		1 Row at midpt	2-10	8)	Bearings a	e assumed to be	: Joint 6 S	SP No.2.	01.					
REACTIO	ONS (s	ize) 6=0-3-8, 1	11= Mechanical	9)	Refer to gir	der(s) for truss to	truss conr	nections.						
	M	ax Horiz 11=-189 (	LC 14)	10)	) This truss h	as béen designe	d for a mo	ving concen	trated					
	M	ax Grav 6=994 (LC	C 34), 11=1002 (LC	34)	load of 250	.0lb live and 3.0lb	o dead loca	ted at all mi	id					
FORCES	s <u>(</u>	(lb) - Maximum Com	pression/Maximum		panels and	at all panel point	s along the	e Top Chord	and					
TOPOU	000				Bottom Cho	ord, nonconcurre	nt with any	other live lo	ads.					
TOP CHO	ORD 7	1-2=-667/128, 2-3=- 1-11=-1080/47	1131/138, 3-6=-162	4/57, 11)	) This truss c	lesign requires th	at a minim	um of 7/16"	top					
BOT CHO	ORD <sup>2</sup>	10-11=-122/172.8-1	0=0/568.7-8=0/113	3.	chord and '	1/2" avosum shee	e applieu u	nolied direct	tly to					
	6	6-7=0/1301		-,	the bottom	chord			liy to					
WEBS	1	1-10=-8/758, 2-10=-4	437/88, 2-8=-18/807	<sup>7,</sup> IO	AD CASE(S	) Standard								
	3	3-8=-597/125, 3-7=0	)/446		//D 0//02(0	) olandara								111.
NOTES													White CA	Dalle
1) Unba	alanced	roof live loads have	been considered for	r								1	altion	nori,
this c	design.											Sec.	O .EESS	6:10
2) Wind	: ASCE	7-16; Vult=120mph	(3-second gust)	<b>.</b> .							/	$\leq \leq$	i Ori	Tit In
Vasd	1=95mph	n; TCDL=6.0psf; BC	DL=6.0pst; h=25tt; (	Cat.							2			
II; EX	(pB;En)	CIOSED; IVIVERS (en	Ivelope) and C-C	to							-		054	1
11.7.	-11 Evt	4-10-13 t0 7-10-13, erior(2R) 11-7-11 to	14-7-11 Interior (1)	10							=		SEA	L <u>1</u> E
14-7-	-11 to 26	6-9-13 zone: cantile	ver left and right		= 036322									22 : E
expo	sed : en	d vertical left and ric	aht exposed:C-C for								-			- 1 5
mem	bers an	d forces & MWFRS	for reactions shown	;								5		1 2
Lumb	ber DOL	.=1.60 plate grip DO	L=1.60									21	N. ENO	CR. L S
3) TCLL	L: ASCE	7-16; Pr=20.0 psf (	roof LL: Lum DOL=1	1.15								1	S, GIN	A N
Plate	DOL=1	.15); Pg=20.0 psf; F	Pf=15.4 psf (Lum DC	)L =								1	CAC	II BEIN

TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 3) Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15); Pf=15.4 psf (Lum DOL 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

January 22,2025



GILB

A. GIL

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Job	Truss	Truss Type	Qty	Ply	The Farm at Neills Creek Lot 00.0049 Roof	
2501-0707-A	A1G	Common Supported Gable	3	1	Job Reference (optional)	170910864

Scale = 1:68.9

# Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Tue Jan 21 11:35:51 ID:dHhHjfk1jgEWCkww1XL5TXzumse-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f







22-6-0

Plate Offsets (	X, Y): [14:0-1-0,0-1-8	], [14:0-3-0,0-2-8]										
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 15.4/20.0 10.0 0.0* 10.0	Spacing Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021/TPI2014	CSI TC 0.28 BC 0.27 WB 0.33 Matrix-AS	DEFL         in           Vert(LL)         n/a           Vert(TL)         n/a           Horiz(TL)         0.01	(loc) l/defl L/d - n/a 999 - n/a 999 14 n/a n/a	PLATES         GRIP           MT20         244/190           Weight: 166 lb         FT = 20%					
LUMBER TOP CHORD BOT CHORD WEBS OTHERS SLIDER BRACING TOP CHORD BOT CHORD WEBS REACTIONS	2x4 SP No.2 2x4 SP No.2 2x4 SP No.3 2x4 SP No.3 Right 2x4 SP No.3 Structural wood she except end verticals Rigid ceiling directly 1 Row at midpt (size) 14=22-6-( 24=22-6-( 24=22-6-( Max Horiz 26=-188 ( Max Uplift 14=-29 (L 16=-19 (L 20=-6 (LC 23=-7 (LC 25=-11 (L Max Grav 14=308 (L 16=313 (L 18=332 (L	- 1-6-0 athing directly applied, 5-22 ), 15=22-6-0, 16=22-6 ), 18=22-6-0, 19=22-6 ), 22=22-6-0, 23=22-6 ), 22=22-6-0, 23=22-6 LC 14) C 13), 15=-24 (LC 17) C 17), 19=-12 (LC 17) C 17), 19=-12 (LC 17) C 17), 19=-12 (LC 17) C 17), 22=-8 (LC 14), : 16), 24=-14 (LC 69) C 13), 26=-41 (LC 69) C 92), 15=389 (LC 54 C 89), 17=338 (LC 88 C 87), 19=333 (LC 88	BOT CHORD WEBS -0, 1) Unbalanc -0, this desig -0, 2) Wind: AS -0 Vasd=95 -0 Vasd=95 -0 II; Exp B; -0 Vasd=95 -0 II; Exp B; -0 Corner(31 -0 Corner(31	<ul> <li>25-26=-154/189, 24-25=-1</li> <li>23-24=-154/189, 19-20=-1</li> <li>18-19=-154/189, 19-20=-1</li> <li>16-17=-154/189, 15-16=-1</li> <li>14-15=-154/189</li> <li>5-22=-271/71, 4-23=-275// 8-22=-257/85, 6-20=-275// 8-18=-278/58, 9-17=-283// 12-15=-317/90</li> <li>ccd roof live loads have been gn.</li> <li>CCE 7-16; Vult=120mph (3-se imph; TCDL=6.0psf; BCDL=6.</li> <li>Enclosed; MWFRS (envelop 5 to 7-7-11, Exterior(2N) 7-7- R) 11-7-11 to 14-7-11, Exterior cone; cantilever left and right to eff and right exposed; C-C for MWFRS for reactions shown;</li> <li>plate grip DOL=1.60</li> <li>signed for wind loads in the p r studs exposed to wind (norm dard Industry Gable End Deta</li> </ul>	54/189, 54/189, 54/189, 54/189, 54/189, 54/189, 54/189, 54/189, 55, 7-19=-275/65, 51, 11-16=-274/50, considered for cond gust) 0psf; h=25ft; Cat. e) and C-C Corner 11 to 11-7-11, or(2N) 14-7-11 to exposed; end nembers and Lumber ane of the truss nal to the face), uils as applicable,	<ul> <li>Weight: 166 lb FT = 20%</li> <li>10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.</li> <li>11) All bearings are assumed to be SP No.2.</li> <li>12) N/A</li> <li>13) This truss has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.</li> <li>14) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the top chord on the bottom chord.</li> <li>LOAD CASE(S) Standard</li> </ul>						
FORCES TOP CHORD	20=334 (L 23=334 (L 25=319 (L (lb) - Maximum Com Tension 1-26=-248/117, 1-2= 3-4=-141/202, 4-5=- 6-7=-141/202, 7-8=- 9-11=-144/121, 11-1 12-14=-307/182	.C 85), 22=331 (LC 84 .C 83), 24=336 (LC 82 .C 81), 26=266 (LC 80 pression/Maximum 109/147, 2-3=-114/15 160/238, 5-6=-160/238 128/159, 8-9=-136/115 2=-155/132,	<ul> <li>b) or consult</li> <li>c) TCLL: AS</li> <li>d) TCLL: AS</li> <li>Plate DO</li> <li>1.15 Plate</li> <li>Exp.; Ce-</li> <li>design.</li> <li>Flates consult</li> <li>Flates consult</li> <li>Flates consult</li> <li>Plates chore</li> <li>Gable rect</li> <li>Gable stu</li> <li>This truss</li> <li>chord live</li> </ul>	SCE 7-16; Pr=20.0 psf (roof L JL=1.15); Pg=20.0 psf; Pf=15. the DOL = 1.15); Is=1.0; Rough =1.0; Cs=1.00; Ct=1.10 ced snow loads have been co necked for a plus or minus 5 d center. quires continuous bottom cho uds spaced at 2-0-0 oc. s has been designed for a 10. e load nonconcurrent with any	L: Lum DOL=1.15 4 psf (Lum DOL = Cat B; Partially nsidered for this egree rotation rd bearing. 0 psf bottom other live loads.	SEAL 036322						

chord live load nonconcurrent with any other live loads.

January 22,2025

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Job	Truss	Truss Type	Qty	Ply	The Farm at Neills Creek Lot 00.0049 Roof	
2501-0707-A	A1	Attic	15	1	Job Reference (optional)	70910865

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Tue Jan 21 11:35:49 ID:Nm80oK8QkP7Gw9qF2CnISOzumgV-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:77.5

Plate Offsets (	ie Offsets (X, Y): [11:0-4-1,0-2-4]													
Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL BCDL	(psf) 20.0 15.4/20.0 10.0 0.0* 10.0	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC2021	I/TPI2014	CSI TC BC WB Matrix-MS	0.65 0.83 0.70	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.23 -0.67 0.02 0.12	(loc) 14-17 14-17 11 11	l/defl >999 >400 n/a >999	L/d 360 240 n/a 240	PLATES MT20 MT20HS Weight: 171 lb	<b>GRIP</b> 244/190 187/143 FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING TOP CHORD BOT CHORD WEBS JOINTS REACTIONS FORCES TOP CHORD	2x4 SP No.2 *Except 2x4 SP SS *Except 2x4 SP SS *Except No.2, 3-5:2x4 SP SS Right 2x4 SP No.3 Structural wood shea 3-0-5 oc purlins, exc Rigid ceiling directly bracing, Except: 6-0-0 oc bracing: 19- 1 Row at midpt 1 Brace at Jt(s): 21 (size) 11= Mech Max Horiz 20=-187 (I Max Grav 11=1073 ( (lb) - Maximum Com Tension 1-2=-83/917, 2-3=0/8 4-5=-253/72, 5-6=-20 7-9=-1709/0, 9-11=- 7-12=-59/362	t* 4-8:2x4 SP SS 18-15:2x4 SP No.2 t* 2-19,6-14:2x4 SP 1-6-0 athing directly applied cept end verticals. applied or 10-0-0 oc -20. 15-18, 1-20 anical, 20=0-3-8 LC 14) LC 35), 20=1346 (LC pression/Maximum 366, 3-4=-248/79, 507/0, 6-7=-3009/0, 1840/0, 1-20=-1702/0	2) for 3) 4) 5) 535) 6) 7) 8) 9)	<ol> <li>Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 4-7-5 to 7-5-15, Interior (1) 7-5-15 to 11-7-11, Exterior(2R) 11-7-11 to 14-9-6, Interior (1) 14-9-6 to 26-10-13 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces &amp; MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60</li> <li>TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL = 1.15 Plate DOL = 1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10</li> <li>Unbalanced snow loads have been considered for this design.</li> <li>200.0lb AC unit load placed on the bottom chord, 7-2-2 from left end, supported at two points, 5-0-0 apart.</li> <li>All plates are MT20 plates unless otherwise indicated.</li> <li>Plates checked for a plus or minus 5 degree rotation about its center.</li> <li>This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.</li> <li>* This truss has been designed for a live load of 20.0psf</li> </ol>						15) Attic room checked for L/360 deflection. LOAD CASE(S) Standard				
NOTES 1) Unbalance this design	19-20=-146/173, 17- 12-14=0/1406, 11-12 18-19=-870/103, 18- 2-25=-302/164, 14-1 6-24=0/821, 16-18=- 3-22=-67/840, 21-22 5-23=-2518/0, 4-21= 22-25=-1973/0, 23-2 7-14=-984/38, 9-12= 1-25=-1701/0 ed roof live loads have h.	08, 298, (0, 11 99, 13 1, 14	<ul> <li>a) This trues has been designed to a live toal of 20.0ps on the bottom chord in all areas where a rectangle</li> <li>3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.</li> <li>10) Bottom chord live load (20.0 psf) and additional bottom chord dead load (20.0 psf) applied only to room. 17-19, 14-17</li> <li>11) Bearings are assumed to be: Joint 20 SP SS .</li> <li>12) Refer to girder(s) for trues to trues connections.</li> <li>13) This trues has been designed for a moving concentrated load of 250.0lb live and 3.0lb dead located at all mid panels and at all panel points along the Top Chord and Bottom Chord, nonconcurrent with any other live loads.</li> <li>14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.</li> </ul>								ER. KI	Ammin		

January 22,2025

ENGINEERING BY EREENCO AMITEK Atfillate 818 Soundside Road Edenton, NC 27932

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Job	Truss	Truss Type	Qty	Ply	The Farm at Neills Creek Lot 00.0049 Roof	
2501-0707-A	A1A	Attic	6	1	Job Reference (optional)	170910866

22-6-0

2x4 II

6 à

> 25

3x4。

33

23 21

5 34

17-10-12

6-6-14

4x8👟

7

3x4

35

Structural, LLC, Thurmont, MD - 21788,

Run: 8.83 S Dec 4 2024 Print: 8.830 S Dec 4 2024 MiTek Industries, Inc. Tue Jan 21 11:35:50 ID:yv0Tg?QPwgHpxo2LQd8rxXzumcG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

22-6-0

4-7-4

ATTIC RESIDENTIAL LIMITED ACCESS 20 PSF. STORAGE USE ONLY.

0-5-4 ∏

Page: 1

9-4-8 8 36 2x4 ¢ MT20H\$ 3x8 🍃 MT20H\$ 3x8 9 3x4 7 38 10 11 46 5-2-4 37 16 181 20 3x4=<sup>39</sup> 19 40 41 17 42 1413 43 2x4= 141344 4x4= 45 4x6 II 6x6= 2x4 II 2x4= 2x4 II 4x4= MT20HS 3x8 = 14-2-9 12-0-0 11-3-14 3-2-2 <u>3-0-6</u> 7-2-2 3-0-6 4000 11-2-2 22-6-0 4-0-0 3-0-6 4-0-0 0-1-12 8-3-7 0-8-2 2-2-9

 3-0-6
 4-4-3
 7-2-2
 10-0-2
 1

 3-0-6
 1-3-13
 2-10-0
 1
 3

 2-10-0
 1-3-12
 1-3-12
 1
 3

4x4=

4

3x4 ≠ 2x4 ∎ 3x6 ∎

2-10-0

712

2x4 II 31 2

34

6x8 II

30

3x4 💋

32

22

Scale = 1:77.5

Plate Offsets (X, Y): [11:0-3-2,0-1-0]

Loading TCLL (roof) Snow (Pf/Pg) TCDL BCLL	(psf) 20.0 15.4/20.0 10.0 0.0*	<b>Spacing</b> Plate Grip DOL Lumber DOL Rep Stress Incr Code	2-0-0 1.15 1.15 YES IRC202	1/TPI2014	<b>CSI</b> TC BC WB Matrix-MS	0.65 0.83 0.70	DEFL Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in -0.23 -0.66 0.01 0.12	(loc) 14-17 14-17 11 14	l/defl >999 >402 n/a >999	L/d 360 240 n/a 240	PLATES MT20 MT20HS	<b>GRIP</b> 244/190 187/143	
BCDL	10.0											Weight: 171 lb	FT = 20%	
LUMBER TOP CHORD BOT CHORD WEBS SLIDER BRACING TOP CHORD BOT CHORD	2x4 SP No.2 *Except 2x4 SP SS *Except* 2x4 SP No.3 *Except No.2, 3-5:2x4 SP SS Right 2x4 SP No.3 Structural wood shee 3-0-9 oc purlins, exi Rigid ceiling directly bracing, Except: 6-0-0 oc bracing: 19	t* 8-4:2x4 SP SS 18-15:2x4 SP No.2 t* 2-19,6-14:2x4 SP - 1-6-0 athing directly applie cept end verticals. applied or 10-0-0 oc -20.	2) d or 3)	Wind: ASCE Vasd=95mpH II; Exp B; En Exterior(2E) 11-7-11, Exte 14-9-6 to 26- exposed ; en members an Lumber DOL TCLL: ASCE Plate DOL=1 1.15 Plate DOL=1 CEXp: Ce=10	7-16; Vult=120mp 7-16; Vult=120mp 1; TCDL=6.0psf; B( 1) Colsed; MWFRS (e 4-7-5 to 7-5-15, Int erior(2R) 11-7-11 to 9-13 zone; cantilev d vertical left and r d vertical left and r d forces & MWFRS =1.60 plate grip D( 7-16; Pr=20.0 psf; .15); Pg=20.0 psf; DL = 1.15); Is=1.0; V Cs-100 C to -11	h (3-sec CDL=6.0 nvelope erior (1) o 14-9-6 ver left a ight exp 6 for rea DL=1.60 (roof LL Pf=15.4 Rough	ond gust) )psf; h=25ft; ( ) and C-C 7-5-15 to , Interior (1) ind right osed;C-C for ctions shown : Lum DOL=1 psf (Lum DC Cat B; Partial	Cat. ; 1.15 DL = Ily	LOAD	CASE(S)	Sta	ndard		
WEBS JOINTS <b>REACTIONS</b>	1 Row at midpt 1 Brace at Jt(s): 21 (size) 11=0-3-8, Max Horiz 20=-187 ( Max Grav 11=1071 (	15-18, 1-20 20=0-3-8 LC 14) (LC 35), 20=1342 (L(	4) 5) C 35) (c)	Unbalanced design. 200.0lb AC u from left end	nit load placed on	een cor the bott points, f	sidered for th om chord, 7-2 5-0-0 apart.	nis 2-2						
FORCES	(lb) - Maximum Com	pression/Maximum	7)	Plates check	ed for a plus or min	nus 5 de	gree rotation	u.						
TOP CHORD	1-2=-84/906, 2-3=0/8 4-5=-253/72, 5-6=-2 7-9=-1690/0, 9-11=- 7-12=-62/347	856, 3-4=-248/79, 589/0, 6-7=-2989/0, 1810/0, 1-20=-1697/	8) D, 9)	about its cen This truss ha chord live loa * This truss h	ter. s been designed fo ad nonconcurrent w las been designed a chord in all areas	or a 10.0 vith any for a liv	) psf bottom other live load e load of 20.0	ds. )psf				TH CA	Ro	
BOT CHORD WEBS	19-20-145/172, 17- 19-20-145/172, 17- 12-14=0/1392, 11-12 18-19=-864/104, 18- 2-24=-301/164, 14-1 6-25=0/815, 16-18=- 3-22=-68/832, 21-22 5-23=-2498/0, 4-21= 16-17=0/146, 7-14=- 23-25=0/1872, 1-24= 9-12=-265/81	19=0/904, 14-17=0/5 2=0/1539 :24=-804/134, 5=0/1228, 15-25=0/ :12/4, 15-16=-12/4, :=941/0, 21-23=-941 :-39/22, 1-19=0/1831 :966/41, 22-24=-1957 =-1687/0, 7-25=0/157	904, 1288, /0, 11 , 12 7/0, 77,	3-06-00 tall b chord and ar b) Bottom chord chord dead la 14-17 ) All bearings a bad of 250.0 panels and a Bottom Chor	y 2-00-00 wide wil yy other members. I live load (20.0 ps bad (20.0 psf) appl are assumed to be s been designed fo lb live and 3.0lb de t all panel points a d, nonconcurrent w	f) and a ied only SP SS or a move ad loca long the	ditional botto dditional botto to room. 17- , , , , , , , , , , , , , , , , , , ,	om 19, ated ind ds.		A CONTRACTOR OF	R. S.	SEA 0363	22	Monunin
1) Unbalance this design	ed roof live loads have n.	f live loads have been considered for f live loads have been considered for have been con								Č.				

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818 Soundside Road Edenton, NC 27932

January 22,2025

