

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 22040116

DRB GROUP - 78 FARM AT NEILLS CREEK

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

Pages or sheets covered by this seal: I51987068 thru I51987098

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

North Carolina COA: C-0844



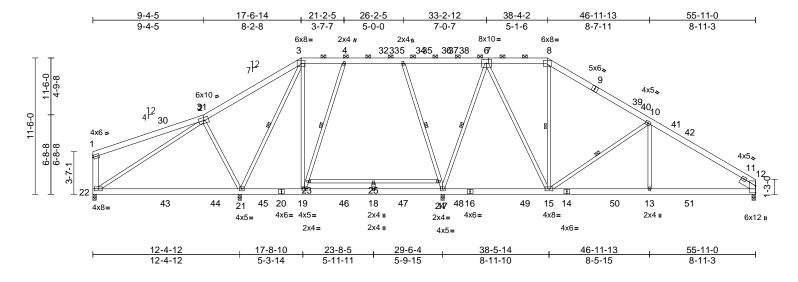
May 17,2022

Gilbert, Eric

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

Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 78 FARM AT NEILLS CREEK
22040116	A01	Piggyback Base	6	1	I51987068 Job Reference (optional)

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon May 16 23:36:32 ID:vmWSYKxMeSKeeaoGnh3QrczhvSE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:97.2

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	-0.22	21-22	>663	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.39	21-22	>383	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.74	Horz(CT)	0.04	12	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 465 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2 2x6 SP No.2 **BOT CHORD**

2x4 SP No.2 *Except* WEBS

21-2,15-10,10-13,25-18:2x4 SP No.3, 22-1:2x6 SP No.2

Right 2x6 SP No.2 -- 1-6-0

SLIDER BRACING

TOP CHORD Structural wood sheathing directly applied or 5-0-13 oc purlins, except end verticals, and

2-0-0 oc purlins (6-0-0 max.): 3-8. **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc

bracing.

3-21, 4-19, 5-17, 6-17,

WEBS 1 Row at midpt

8-15 10-15

REACTIONS (lb/size) 12=1060/0-3-8, 17=1716/0-3-8, 21=1582/0-3-8, 22=297/0-3-8

Max Horiz 22=265 (LC 11)

Max Uplift 12=-134 (LC 15), 17=-111 (LC 15),

21=-151 (LC 14), 22=-118 (LC 10)

12=1293 (LC 52), 17=1988 (LC 6), 21=1796 (LC 34), 22=498 (LC 43)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-291/151, 2-3=-11/617, 3-4=-203/231,

4-5=-287/261, 5-6=-137/205, 6-8=-693/376, 8-10=-982/347, 10-12=-1762/371,

1-22=-466/188

BOT CHORD 21-22=-276/109, 19-21=-77/292,

18-19=-92/351, 17-18=-92/351,

15-17=-42/467, 13-15=-182/1435, 12-13=-182/1435

WEBS

2-21=-529/343, 3-21=-1131/0, 3-19=0/557, 19-23=-289/142, 4-23=-278/158, 5-24=-569/188, 17-24=-580/174, 6-17=-1043/333, 6-15=-151/966,

8-15=-166/159, 10-15=-958/304, 10-13=0/427, 2-22=-84/404, 23-25=-7/13,

24-25=-7/13, 18-25=0/45

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 8-0-0 to 13-11-14, Interior (1) 13-11-14 to 17-1-9, Exterior(2R) 17-1-9 to 33-10-11, Interior (1) 33-10-11 to 37-7-11, Exterior(2R) 37-7-11 to 54-9-1, Interior (1) 54-9-1 to 57-8-6, Exterior(2E) 57-8-6 to 63-8-4 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 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this
- 200.0lb AC unit load placed on the bottom chord, 23-8-8 from left end, supported at two points, 5-0-0 apart.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 21, 17, 22, and 12. This connection is for uplift only and does not consider lateral forces.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) 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



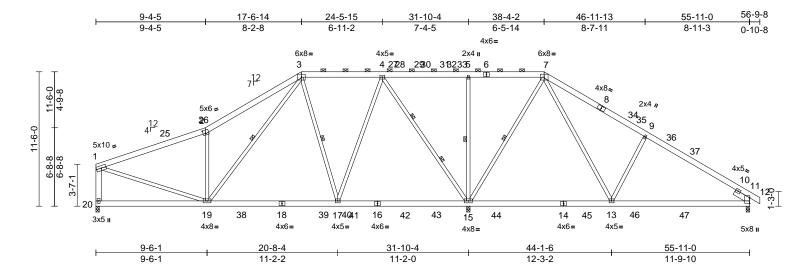
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 78 FARM AT NEILLS CREEK
22040116	A02	Piggyback Base	1	1	Job Reference (optional)

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon May 16 23:36:35 ID:vmWSYKxMeSKeeaoGnh3QrczhvSE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:98.5

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

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	0.84	Vert(LL)	-0.14	17-19	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.21	17-19	>999	180	1	
TCDL	10.0	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.01	15	n/a	n/a	1	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH							1	
BCDL	10.0	1		1							Weight: 441 lb	FT = 20%

LUMBER

WEBS

TOP CHORD 2x6 SP No 2

BOT CHORD 2x6 SP 2400F 2.0E *Except* 18-16:2x6 SP

No.2

2x4 SP No.2 *Except* 19-1,19-2,13-9:2x4 SP

No.3, 20-1:2x6 SP No.2 SLIDER Right 2x6 SP No.2 -- 1-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and

2-0-0 oc purlins (6-0-0 max.): 3-7.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing, Except:

6-0-0 oc bracing: 13-15.

WFBS 1 Row at midpt 5-15, 7-15, 3-19, 3-17

WEBS 2 Rows at 1/3 pts 4-15

REACTIONS (lb/size) 11=766/0-3-8, 15=2818/0-3-8,

20=1124/0-3-8

Max Horiz 20=261 (LC 13)

Max Uplift 11=-161 (LC 15), 20=-117 (LC 14) Max Grav 11=1005 (LC 53), 15=3260 (LC 3),

20=1295 (LC 36)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-1542/279, 2-3=-1778/496,

TOP CHORD

3-4=-755/245, 4-5=0/626, 5-7=0/626,

7-9=-920/346, 9-11=-1089/272, 11-12=0/26,

1-20=-1154/264

BOT CHORD 19-20=-236/236, 17-19=-75/889, 15-17=-83/557, 13-15=-61/194,

11-13=-104/874

WFBS 1-19=-105/1416, 2-19=-878/418,

5-15=-589/198, 7-15=-1285/291,

9-13=-725/353, 7-13=-213/1214,

3-19=-323/962, 3-17=-530/269, 4-17=0/1158,

4-15=-1620/220

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 8-0-0 to 13-11-14. Interior (1) 13-11-14 to 17-1-9, Exterior(2R) 17-1-9 to 33-9-13, Interior (1) 33-9-13 to 37-7-11, Exterior(2R) 37-7-11 to 54-10-6, Interior (1) 54-10-6 to 58-6-14, Exterior(2E) 58-6-14 to 64-6-12 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 200.0lb AC unit load placed on the bottom chord, 23-11-12 from left end, supported at two points, 5-0-0 apart.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom
- chord and any other members, with BCDL = 10.0psf. 10) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 20 and 11. This connection is for uplift only and does not consider lateral forces.

- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) 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



May 17,2022

NOTES

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

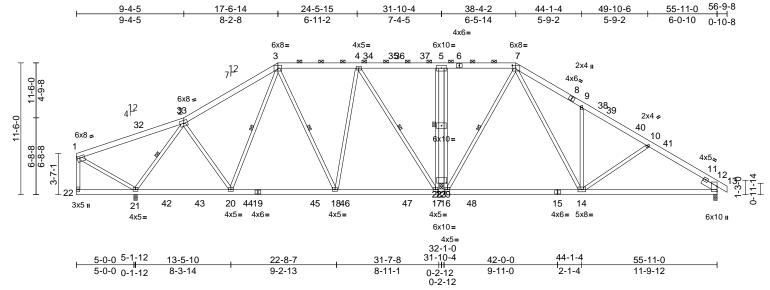
ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 78 FARM AT NEILLS CREEK
22040116	A03	Piggyback Base	3	1	Job Reference (optional)

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon May 16 23:36:35 ID:aoRBENz7FOPJS6leKNt1qPzFzyH-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:100.6

Plate Offsets (X, Y): [1:Edge,0-2-0], [7:0-3-12,0-3-0], [16:0-1-3,0-6-11]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.96	Vert(LL)	-0.35	14-16	>826	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.53	14-16	>541	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.86	Horz(CT)	0.02	12	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 492 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.2 *Except*

0-0,21-1,22-1,14-9,14-10,21-2,20-2:2x4 SP

No.3

OTHERS 2x6 SP No.2

SLIDER Right 2x6 SP No.2 -- 1-6-0

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and

2-0-0 oc purlins (6-0-0 max.): 3-7. Rigid ceiling directly applied or 10-0-0 oc

bracing, Except:

8-6-8 oc bracing: 14-16

WEBS 1 Row at midpt 7-16, 2-21, 3-20, 3-18,

4-17, 5-23

REACTIONS (lb/size) 12=982/0-3-8, 21=1475/0-3-8,

23=2042/0-3-8

Max Horiz 21=262 (LC 13) Max Uplift 12=-243 (LC 15), 21=-245 (LC 14),

23=-98 (LC 11)

Max Grav 12=1249 (LC 53), 21=1688 (LC

36), 23=2437 (LC 48) (lb) - Maximum Compression/Maximum

FORCES (lb) - Ma Tension

TOP CHORD

1-2=-225/559, 2-3=-1056/352, 3-4=-676/438,

4-30=-146/436, 5-30=-136/432,

5-31=-136/432, 7-31=-144/438, 7-9=-1450/627, 9-10=-1347/448

7-9=-1450/627, 9-10=-1347/448, 10-12=-1577/484, 12-13=0/26, 1-22=-142/62

BOT CHORD 21-22=-54/76, 20-21=-193/692,

18-20=-127/723, 17-18=-99/604,

14-16=-16/449, 12-14=-270/1260

WEBS

1-21=-567/406, 7-16=-974/90, 9-14=-677/285, 7-14=-243/1386, 10-14=-279/172, 2-21=-1455/576, 3-20=-41/252, 2-20=-7/372, 3-18=-292/85, 4-18=0/733, 4-17=-1140/168, 5-23=-1362/98, 17-23=-101/1107, 23-30=-101/1107, 16-23=-24/1067, 23-31=-24/1067

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 7-11-0 to 13-6-2, Interior (1) 13-6-2 to 17-5-3, Exterior(2R) 17-5-3 to 33-3-0, Interior (1) 33-3-0 to 38-2-8, Exterior(2R) 38-2-8 to 54-0-5, Interior (1) 54-0-5 to 58-11-10, Exterior(2E) 58-11-10 to 64-6-12 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- 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 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 6) Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

- Bearing at joint(s) 23 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 21, 12, and 23. This connection is for uplift only and does not consider lateral forces.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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



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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

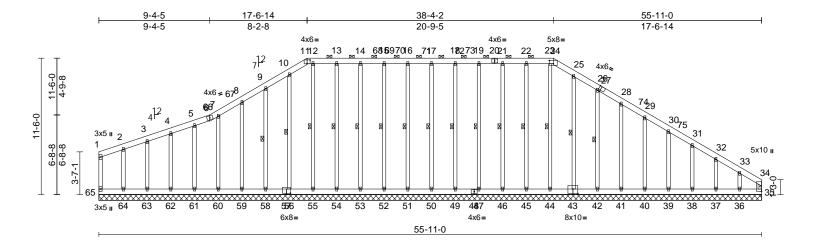


818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 78 FARM AT NEILLS CREEK
22040116	A04	Piggyback Base Supported Gable	1	1	Job Reference (optional)

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon May 16 23:36:36 ID: ACSOSGC fmETEfJzgbpcWMMzhrbl-RfC? PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC? fmeters and the property of the

Page: 1



Scale = 1:97.2

Plate Offsets (X, Y):	late Offsets (X, Y): [11:0-3-0,0-3-12], [24:0-4-0,0-3-3], [27:0-2-1,Edge], [43:0-5-0,0-4-8], [57:0-4-0,0-1-4]														
Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP			
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	n/a	-	n/a	999	MT20	244/190			
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.07	Vert(TL)	n/a	-	n/a	999					
TCDL	10.0	Rep Stress Incr	YES	WB	0.22	Horiz(TL)	-0.01	35	n/a	n/a					
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MR		` ´									
BCDL	10.0	1		1							Weight: 590 lb	FT = 20%			

Loading		(psf)	Spacing	1-11-4	- 10	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP	
TCLL (roof)		20.0	Plate Grip DOL	1.15	1	TC	0.31	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
Snow (Pf)		20.0	Lumber DOL	1.15	E	ВС	0.07	Vert(TL)	n/a	-	n/a	999	1		
TCDL		10.0	Rep Stress Incr	YES	١	WB	0.22	Horiz(TL)	-0.01	35	n/a	n/a	1		
BCLL		0.0*	Code	IRC2018/TPI2014	l l	Matrix-M	R	l ' '					1		
BCDL		10.0											Weight: 590 I	b FT = 20%	
LUMBER					Max	Uplift 3	35=-232 (LC 11), 36=-167 (l	LC 15),	TOP CH	HORD	1-65=	:-71/35, 1-2=-49	9/54, 2-3=-59/78	8,
TOP CHORD	2x6 SP N	lo.2					37=-27 (LC 15),	38=-53 (LC	15),			3-4=-	69/101, 4-5=-78	8/124, 5-6=-90/	149,
BOT CHORD	2x6 SP N	lo.2				;	39=-48 (LC 15),	40=-49 (LC	15),			6-7=-	80/151, 7-8=-11	17/207, 8-9=-13	35/275,
WEBS	2x4 SP N	lo.3					11=-50 (LC 15),						-156/357, 10-1		
OTHERS	2x4 SP N	lo.3 *Excep	ot*				13=-24 (LC 15),						=-147/382, 12-		
	52-15,53	-14,54-13,5	55-12,51-16,50-17,49-1	8,			16=-30 (LC 11),						=-147/382, 14-		
	47-19,46	-21,45-22,4	44-23:2x4 SP No.2				19=-24 (LC 10),						=-147/382, 16-		
BRACING							51=-24 (LC 10),						=-147/382, 18-		
TOP CHORD	Structura	al wood she	eathing directly applied	or			53=-28 (LC 11),						=-147/382, 21-		
	6-0-0 oc	purlins, ex	cept end verticals, and				58=-59 (LC 14), 50=-59 (LC 14),						=-147/382, 23- =-163/399, 25-		
	2-0-0 oc	purlins (6-0	0-0 max.): 11-24.				62=-32 (LC 14),						=-103/399, 25- =-133/266, 28-		
BOT CHORD	Rigid cei	ling directly	applied or 10-0-0 oc				64=-52 (LC 10), 64=-54 (LC 14).)=-133/200, 20)=-96/231, 30-3		
	bracing.				May		35=189 (LC 19)	`	,				!=-118/239, 32-		
WEBS	1 Row at	midpt	15-52, 14-53, 13-54,		IVIAA		37=155 (LC 40)						=-209/287, 34-		
			12-55, 10-56, 9-58,				39=217 (LC 46)						200/201,01	.20,	
			16-51, 17-50, 18-49,				11=233 (LC 46)								
			19-47, 21-46, 22-45,				13=229 (LC 46)								
			23-44, 25-43, 26-42				15=218 (LC 39)								
REACTIONS	(lb/size)		5-11-0, 36=157/55-11-0	,			17=212 (LC 39)								
			55-11-0, 38=155/55-11-	- /			50=177 (LC 20)	, 51=189 (LC	C 21),						
			55-11-0, 40=155/55-11-				52=209 (LC 39)	, 53=218 (LC	2 39),					11111	
			55-11-0, 42=157/55-11-	,			54=218 (LC 39)	, 55=178 (LC	C 53),				11'11 C	AD-11.	
			55-11-0, 44=152/55-11-				56=224 (LC 42)						THU	JUO 1/2	1
			55-11-0, 46=155/55-11-	,			59=238 (LC 42)					~	OFFE	200	1/2
			55-11-0, 49=155/55-11-				61=205 (LC 43)					2	ORTH C	700:	2'-1
			55-11-0, 51=155/55-11- 55-11-0, 53=155/55-11-				63=212 (LC 43)	, 64=225 (LC	C 43),				20	122	/7
			55-11-0, 55=155/55-11- 55-11-0, 55=155/55-11-	0			65=87 (LC 43)				3	9 (- 2
			55-11-0, 55=155/55-11- 55-11-0, 58=155/55-11-	FORGES			num Compress	on/Maximun	n		_		SE.	AL :	=
			55-11-0, 60=156/55-11-		Te	nsion					=			•	=
			55-11-0, 62=154/55-11-								=		036	322 :	=
			55-11-0, 64=163/55-11-								-		•	•	=
		65=65/55		-,								-		2	-
		25 25/00										1	1.EN-	CA. Y	

Continued on page 2
WARNING - Ver

Max Horiz 65=269 (LC 11)

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

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 (ev. 5-19/2/2/20 BEHORE USE.)

Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Timminin May 17,2022

818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 78 FARM AT NEILLS CREEK
22040116	A04	Piggyback Base Supported Gable	1	1	Job Reference (optional)

Run: 8.53 S. Apr. 27.2022 Print: 8.530 S. Apr. 27.2022 MiTek Industries. Inc. Mon May 16.23:36:36 ID:ACS0SGCfmETEfJzgbpcWMMzhrbI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 2

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64-65=-238/161, 63-64=-238/161,
BOT CHORD
              62-63=-238/161, 61-62=-238/161,
               60-61=-238/161, 59-60=-238/161,
              58-59=-238/161, 56-58=-238/161,
               55-56=-238/161, 54-55=-238/161,
               53-54=-238/161, 52-53=-238/161,
               51-52=-238/161, 50-51=-238/161,
               49-50=-238/161, 47-49=-238/161,
               46-47=-238/161, 45-46=-238/161,
               44-45=-238/161, 42-44=-238/161,
               41-42=-237/161, 40-41=-237/161,
               39-40=-237/161, 38-39=-237/161,
               37-38=-237/161, 36-37=-237/161,
               35-36=-237/161
WEBS
               15-52=-171/58, 14-53=-179/93,
               13-54=-179/84, 12-55=-139/6,
               10-56=-185/56, 9-58=-200/143,
               8-59=-199/111. 7-60=-166/90. 5-61=-166/65.
               4-62=-176/56, 3-63=-174/56, 2-64=-184/73,
               16-51=-151/48, 17-50=-138/48,
               18-49=-152/48, 19-47=-173/67,
               21-46=-179/97, 22-45=-179/74,
               23-44=-143/10, 25-43=-190/79,
               26-42=-199/141, 28-41=-195/99,
               29-40=-197/72, 30-39=-179/72,
               31-38=-123/73, 32-37=-117/65,
               33-36=-178/126
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NOTES

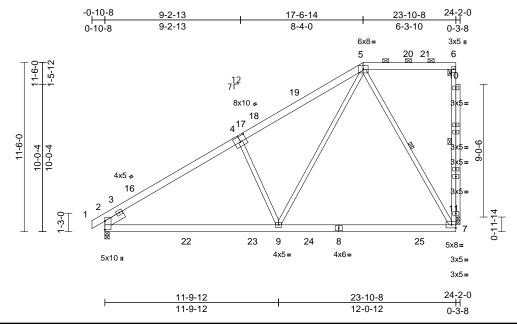
- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 7-11-0 to 13-10-2, Exterior (2N) 13-10-2 to 19-4-3, Corner(3R) 19-4-3 to 31-4-0, Exterior(2N) 31-4-0 to 39-10-2, Corner(3R) 39-10-2 to 51-10-2, Exterior(2N) 51-10-2 to 57-6-10, Corner(3E) 57-6-10 to 63-6-8 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
- 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); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding. All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 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) N/A
- 14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802 10 2 and referenced standard ANSI/TPI 1
- 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

Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 78 FARM AT NEILLS CREEK
22040116	B01	Piggyback Base	4	1	Job Reference (optional)

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon May 16 23:36:38 ID:U0VysG?d9oeHisHgY8i761zFzil-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:78.4

Plate Offsets (X, Y): [4:0-5-0,0-4-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	-0.27	7-9	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.41	7-9	>695	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.71	Horz(CT)	-0.05	11	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 199 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2 BOT CHORD 2x6 SP No.2

WEBS 2x4 SP No.2 *Except* 4-9:2x4 SP No.3

OTHERS 2x4 SP No.2 **SLIDER**

Left 2x6 SP No.2 -- 1-6-0

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-8-5 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

WFBS 6-7.5-7 1 Row at midpt REACTIONS (lb/size) 2=1003/0-3-8, 11=948/0-3-0

Max Horiz 2=396 (LC 13)

Max Uplift 2=-116 (LC 14), 11=-153 (LC 14)

Max Grav 2=1244 (LC 40), 11=1116 (LC 24)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/26, 2-5=-1501/250, 5-6=-160/164,

7-11=-119/1109, 6-11=-261/86

BOT CHORD 2-9=-310/1366, 7-9=-156/545

WFBS 5-7=-1007/216, 5-9=-165/1254, 4-9=-596/312

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 13-3-15, Exterior(2R) 13-3-15 to 21-9-12, Interior (1) 21-9-12 to 23-8-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- 4) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 11. This connection is for uplift only and does not consider lateral forces.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) 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



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

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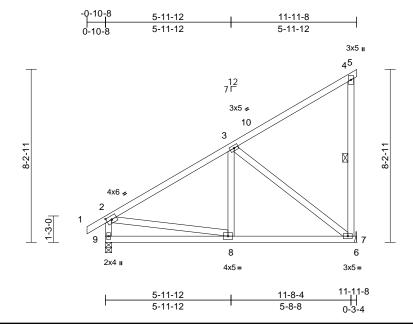
ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 78 FARM AT NEILLS CREEK
22040116	C01	Monopitch	6	1	I51987073 Job Reference (optional)

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries. Inc. Mon May 16 23:36:38 ID:CLXxqOYYKtlC18TKvZ333yzFwJ8-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:54.9

Plate Offsets (X, Y): [2:0-2-14,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	-0.03	7-8	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.05	7-8	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.01	7	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 77 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No 2 **WEBS** 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

WEBS 1 Row at midpt

REACTIONS (lb/size) 7=481/ Mechanical, 9=525/0-3-8

Max Horiz 9=288 (LC 13)

Max Uplift 7=-126 (LC 14), 9=-43 (LC 14)

Max Grav 7=634 (LC 21), 9=561 (LC 21)

(lb) - Maximum Compression/Maximum

FORCES

1-2=0/31, 2-3=-559/107, 3-4=-186/106,

4-5=-13/0, 4-7=-264/64, 2-9=-508/151 BOT CHORD 8-9=-277/261, 7-8=-101/419, 6-7=0/0

WEBS 3-8=0/233, 3-7=-510/172, 2-8=0/318

NOTES

TOP CHORD

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 8-11-8, Exterior(2E) 8-11-8 to 11-11-8 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 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this design.

- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 126 lb uplift at joint 7
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 9. This connection is for uplift only and does not consider lateral forces.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

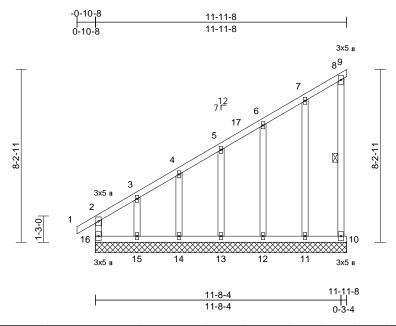
available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 78 FARM AT NEILLS CREEK
22040116	C02	Monopitch Supported Gable	1	1	Job Reference (optional)

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon May 16 23:36:38 ID:cwD4SPaRdognucCvbhdmhazFwJ5-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:54.9

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.17	Horz(CT)	-0.04	9	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MR								
BCDL	10.0			1							Weight: 84 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 BOT CHORD 2x4 SP No.3 WEBS **OTHERS** 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

WEBS 1 Row at midpt 8-10

REACTIONS (lb/size)

9=12/11-11-8, 10=57/11-11-8, 11=156/11-11-8, 12=156/11-11-8, 13=154/11-11-8, 14=158/11-11-8,

15=141/11-11-8, 16=135/11-11-8

Max Horiz 16=280 (LC 11)

9=-82 (LC 14), 10=-146 (LC 13), Max Uplift 11=-53 (LC 14), 12=-46 (LC 14),

13=-58 (LC 14), 14=-14 (LC 14), 15=-199 (LC 14), 16=-96 (LC 10)

Max Grav 9=93 (LC 13), 10=144 (LC 10),

11=232 (LC 21), 12=223 (LC 21), 13=165 (LC 24), 14=158 (LC 1),

15=237 (LC 24), 16=256 (LC 25) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 2-16=-199/75, 1-2=0/30, 2-3=-259/166,

3-4=-184/120, 4-5=-170/109, 5-6=-154/98, 6-7=-145/99, 7-8=-109/117, 8-9=-87/66,

8-10=-145/105

BOT CHORD 15-16=-115/144, 14-15=-115/144,

13-14=-115/144, 12-13=-115/144,

11-12=-115/144, 10-11=-115/144

5-13=-124/105, 4-14=-119/83, 3-15=-157/205, 6-12=-185/118, 7-11=-193/57

WEBS NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 1-11-12, Exterior (2N) 1-11-12 to 11-11-8 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
- 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); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads
- All plates are 2x4 MT20 unless otherwise indicated.
- 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 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.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 96 lb uplift at joint 16, 82 lb uplift at joint 9, 146 lb uplift at joint 10, 58 lb uplift at joint 13, 14 lb uplift at joint 14, 199 lb uplift at joint 15, 46 lb uplift at joint 12 and 53 lb uplift at joint 11.

13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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

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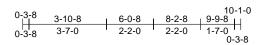
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

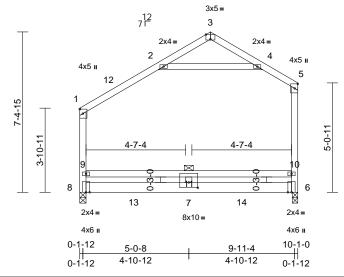


Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 78 FARM AT NEILLS CREEK
22040116	D01	Common	4	1	Job Reference (optional)

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon May 16 23:36:38 ID:1yqKDdM?oLU90fiheg7MlNzTRGw-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:53.3

Plate Offsets (X, Y): [3:0-2-8,Edge], [11:0-5-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.99	Vert(LL)	-0.07	7	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.20	7	>591	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.00	6	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 75 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No 2 BOT CHORD 2x6 SP No.2

WEBS 2x4 SP No.3 *Except* 8-1,6-5:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

WEBS 1 Row at midpt 9-10

REACTIONS (lb/size) 6=491/0-3-0, 8=493/0-3-8

Max Horiz 8=218 (LC 11)

Max Grav 6=561 (LC 21), 8=564 (LC 20)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-298/146, 2-3=-330/105, 3-4=-377/130,

4-5=-259/173, 8-9=-394/144, 1-9=-381/155,

6-10=-371/133, 5-10=-358/144 **BOT CHORD** 7-8=0/342. 6-7=0/342

WEBS 9-11=-305/115, 10-11=-305/115, 7-11=0/41,

2-4=-2/218

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Exterior (2R) 3-1-12 to 9-0-8, Interior (1) 9-0-8 to 9-11-4 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 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

- 4) Unbalanced snow loads have been considered for this design.
- 200 0lb AC unit load placed on the bottom chord, 5-0-0 from left end, supported at two points, 5-0-0 apart.
- 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.
- Bearing at joint(s) 8, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

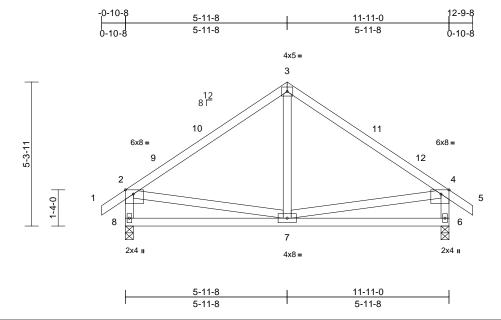
LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 78 FARM AT NEILLS CREEK
22040116	E01	Common	5	1	I51987076 Job Reference (optional)

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries. Inc. Mon May 16 23:36:39 ID:_chtVMf3J_GcW_b8at2KjlzFzYt-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:42.4

Plate Offsets (X, Y): [2:0-3-8,Edge], [4:0-3-8,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	0.91	Vert(LL)	-0.02	7-8	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.05	7-8	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	6	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 69 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No 2 **WEBS** 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (lb/size) 6=526/0-3-8, 8=526/0-3-8

Max Horiz 8=145 (LC 13)

Max Uplift 6=-56 (LC 15), 8=-56 (LC 14)

Max Grav 6=619 (LC 22), 8=619 (LC 21)

FORCES

(lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/34, 2-3=-539/122, 3-4=-539/122, 4-5=0/34, 2-8=-566/164, 4-6=-566/164

BOT CHORD 7-8=-153/263, 6-7=-85/252

WFBS 3-7=0/208, 2-7=-36/249, 4-7=-39/249

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 2-11-8, Exterior(2R) 2-11-8 to 8-11-8, Interior (1) 8-11-8 to 9-9-8, Exterior(2E) 9-9-8 to 12-9-8 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 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

- 4) Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 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.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8 and 6. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

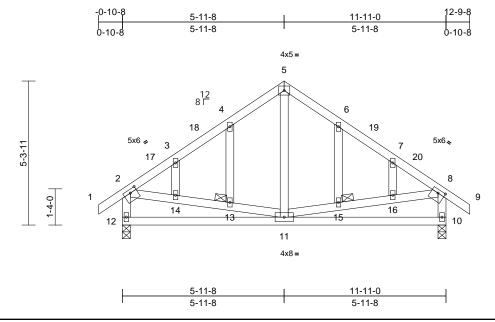




Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 78 FARM AT NEILLS CREEK
22040116	E02	Common Structural Gable	1	1	I51987077 Job Reference (optional)

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon May 16 23:36:39 ID:sNxOLkiaNCm2?cvvpi6Gu8zFzYp-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:42.4

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.02	11-12	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.05	11-12	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.00	10	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 81 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No.2 **WEBS** 2x4 SP No.3 **OTHERS** 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

JOINTS 1 Brace at Jt(s): 13,

15

(lb/size) REACTIONS 10=526/0-3-8, 12=526/0-3-8

Max Horiz 12=-145 (LC 12)

Max Uplift 10=-56 (LC 15), 12=-56 (LC 14) Max Grav 10=619 (LC 22), 12=619 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/34, 2-3=-511/79, 3-4=-436/98,

4-5=-380/134, 5-6=-380/134, 6-7=-436/98.

7-8=-511/79, 8-9=0/34, 2-12=-563/162,

8-10=-563/162

BOT CHORD 11-12=-135/232, 10-11=-57/206

WEBS 5-11=-11/209, 2-14=-22/253, 13-14=-22/250,

11-13=-27/254, 11-15=-31/254,

15-16=-26/250, 8-16=-25/253, 4-13=-82/43, 3-14=-23/13, 6-15=-82/43, 7-16=-23/13

NOTES

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 1-11-8, Interior (1) 1-11-8 to 2-11-8. Exterior(2R) 2-11-8 to 8-11-8. Interior (1) 8-11-8 to 9-9-8, Exterior(2E) 9-9-8 to 12-9-8 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
- 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); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated.
- 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 nonconcurrent with any other live loads.
- 11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 12) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 12 and 10. This connection is for uplift only and does not consider lateral forces.

13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



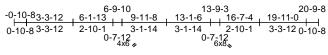
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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



Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 78 FARM AT NEILLS CREEK
22040116	G01	Attic	2	1	I51987078 Job Reference (optional)

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon May 16 23:36:39 ID:wN9MV2a7ngO0fSyKmTVeHlzhpg9-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



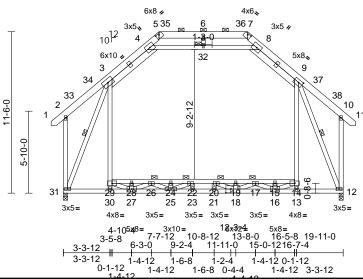


Plate Offsets (X, Y): [5:0-3-0,0-1-1], [7:0-3-0,0-1-1], [9:0-3-8,0-2-4], [18:0-4-4,0-3-4]

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	0.37	Vert(LL)	-0.23	20-22	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.38	20-22	>617	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.05	12	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH		Attic	-0.20	14-29	>806	360		
BCDL	10.0										Weight: 226 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No 2

BOT CHORD 2x4 SP No.2 *Except* 31-18:2x4 SP No.1 **WEBS** 2x4 SP No.3 *Except* 3-30,9-13,4-8:2x4 SP

No.2, 3-4,8-9:2x6 SP No.2

BRACING TOP CHORD

Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing, Except:

2-2-0 oc bracing: 16-18. 3-1-0 oc bracing: 17-26

5-4-0 oc bracing: 26-29, 14-17

WFBS 1 Row at midpt 3-31, 9-12

JOINTS 1 Brace at Jt(s): 17,

26, 32

REACTIONS (lb/size) 12=1176/0-3-8, 31=1176/0-3-8

Max Horiz 31=-337 (LC 12)

Max Grav 12=1584 (LC 46), 31=1584 (LC 46)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/32, 2-3=-304/232, 3-4=-698/162,

4-5=-806/248, 5-6=-774/224, 6-7=-774/224,

7-8=-807/251, 8-9=-698/162, 9-10=-302/233,

10-11=0/32, 2-31=-437/207, 10-12=-434/208

BOT CHORD 30-31=-64/623, 27-30=-240/600,

25-27=0/2673, 23-25=0/3868, 21-23=0/3868,

16-21=0/3868, 13-16=-21/404, 12-13=-37/601, 28-29=-1200/57,

26-28=-1200/57, 24-26=-3005/0, 22-24=-3005/0, 20-22=-3400/0,

19-20=-3017/0. 17-19=-3017/0.

15-17=-1211/48 14-15=-1211/48

WEBS

29-30=-98/396, 3-29=0/1028, 13-14=-91/374, 9-14=0/1022, 4-32=-645/369, 8-32=-645/369, 3-31=-1610/18, 9-12=-1606/14,

14-16=0/1452, 27-29=0/1424, 15-16=-191/0,

27-28=-183/0. 16-17=-1183/0.

26-27=-1204/0, 17-18=0/909, 25-26=0/894, 18-19=-165/0, 24-25=-156/0, 18-20=-450/39, 22-25=-474/52. 22-23=-13/46. 20-21=-12/42.

6-32=-1/59

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-8-5 to 2-3-11, Exterior(2R) 2-3-11 to 17-7-5, Exterior(2E) 17-7-5 to 20-7-5 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); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 9) * 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.
- 10) Ceiling dead load (5.0 psf) on member(s). 3-4, 8-9, 4-32, 8-32; Wall dead load (5.0psf) on member(s).3-29, 9-14
- 11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 28-29, 26-28, 24-26, 22-24, 20-22, 19-20, 17-19, 15-17, 14-15
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



May 17,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

Design Valid to its 90 mly with win New Commencies. This design is based only upon for a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 78 FARM AT NEILLS CREEK
22040116	G02	Attic	7	1	Job Reference (optional)

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon May 16 23:36:40 ID:wN9MV2a7ngO0fSyKmTVeHlzhpg9-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



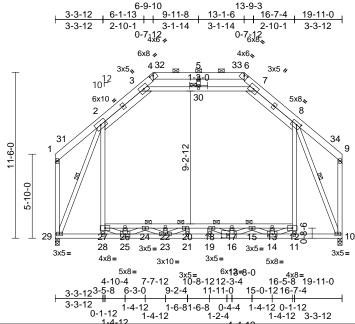


Plate Offsets (X, Y): [4:0-3-0,0-1-1], [6:0-3-0,0-1-1], [8:0-3-8,0-2-4], [16:0-4-4,0-3-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.23	18-20	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.38	18-20	>617	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.05	10	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH		Attic	-0.20	12-27	>806	360		
BCDL	10.0	1									Weight: 221 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No 2

BOT CHORD 2x4 SP No.2 *Except* 29-16:2x4 SP No.1 **WEBS** 2x4 SP No.3 *Except* 2-28,8-11,3-7:2x4 SP

No.2, 2-3,7-8:2x6 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

2-2-0 oc bracing: 14-16.

3-1-0 oc bracing: 15-24 5-4-0 oc bracing: 24-27, 12-15

WFBS 1 Row at midpt 2-29, 8-10

JOINTS 1 Brace at Jt(s): 15,

24, 30

REACTIONS (lb/size) 10=1125/0-3-8, 29=1125/0-3-8

Max Horiz 29=-321 (LC 10)

Max Grav 10=1542 (LC 45), 29=1542 (LC 45)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=-290/178, 2-3=-700/145, 3-4=-804/252, 4-5=-770/230, 5-6=-770/230, 6-7=-804/255,

7-8=-701/144, 8-9=-288/179, 1-29=-375/161,

9-10=-372/162

BOT CHORD 28-29=-66/617, 25-28=-240/591,

23-25=0/2674, 21-23=0/3869, 19-21=0/3869,

14-19=0/3869, 11-14=-29/406, 10-11=-38/596, 26-27=-1192/54 24-26=-1192/54, 22-24=-3006/0, 20-22=-3006/0, 18-20=-3400/0, 17-18=-3017/0, 15-17=-3017/0,

13-15=-1202/44 12-13=-1202/44

WEBS

27-28=-96/391, 2-27=0/1028, 11-12=-90/368, 8-12=0/1022, 3-30=-655/364, 7-30=-655/364, 2-29=-1597/21, 8-10=-1593/17, 12-14=0/1452, 25-27=0/1424, 13-14=-191/0,

25-26=-183/0. 14-15=-1183/0. 24-25=-1204/0, 15-16=0/909, 23-24=0/894,

16-17=-165/0, 22-23=-156/0, 16-18=-447/37. 20-23=-470/51, 20-21=-13/45, 18-19=-12/41,

5-30=0/59

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 3-3-12, Exterior (2R) 3-3-12 to 16-7-4, Exterior(2E) 16-7-4 to 19-9-4 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 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this
- Provide adequate drainage to prevent water ponding. 6) All plates are 2x4 MT20 unless otherwise indicated.
- 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 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) Ceiling dead load (5.0 psf) on member(s). 2-3, 7-8, 3-30, 7-30: Wall dead load (5.0psf) on member(s),2-27, 8-12
- 10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 26-27, 24-26, 22-24, 20-22, 18-20, 17-18, 15-17, 13-15, 12-13
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

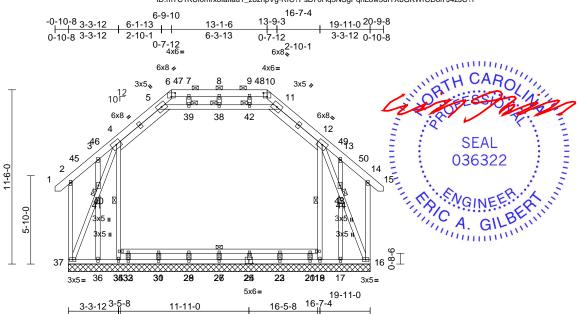
Design Valid to its 90 mly with win New Commercials. This design is based only upon parameters shown, and is 10 at an individual outlining Component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 78 FARM AT NEILLS CREEK
22040116	G03	Attic Supported Gable	1	1	Job Reference (optional)

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon May 16 23:36:41 ID:mTC1KUi0mrxofallau1_zozhpVg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



4-6-8

0-1-12

Plate Offsets (X, Y): [6:0-3-0,0-3-0], [10:0-3-0,0-3-0], [25:0-3-0,0-3-0]

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.01	16	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 231 lb	FT = 20%

8-5-8

LUMBER
TOP CHORD

TOP CHORD 2x6 SP No.2 BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.3 *Except* 5-11:2x4 SP No.2,

4-5,11-12:2x6 SP No.2

OTHERS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-10.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing. Except:

10-0-0 oc bracing: 19-34 1 Row at midpt 4-35, 12-18

WEBS 1 Row at midpt 4-3

JOINTS 1 Brace at Jt(s): 38,

39, 40, 42, 43

REACTIONS (lb/size) 16=700/19-11-0, 17=-38/19-11-0, 18=159/19-11-0, 21=65/19-11-0, 23=80/19-11-0, 25=77/19-11-0,

27=77/19-11-0, 29=77/19-11-0, 31=79/19-11-0, 33=66/19-11-0, 35=159/19-11-0, 36=-38/19-11-0.

37=700/19-11-0

Max Horiz 37=-327 (LC 12)

Max Uplift 16=-227 (LC 11), 17=-109 (LC 39), 18=-159 (LC 10), 35=-194 (LC 11),

36=-109 (LC 39), 37=-261 (LC 10)

Max Grav 16=792 (LC 23), 17=134 (LC 50),

18=368 (LC 50), 21=192 (LC 21), 23=242 (LC 21), 25=230 (LC 21),

27=232 (LC 21), 29=231 (LC 21), 31=240 (LC 21), 33=193 (LC 21),

35=397 (LC 48), 36=132 (LC 48), 37=791 (LC 22)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-37=-186/193, 1-2=0/31, 2-3=-138/207,

3-4=-125/268, 4-5=-543/203, 5-6=-884/123, 6-7=-874/112, 7-8=-874/112, 8-9=-874/112, 9-10=-874/112, 10-11=-884/134,

11-12=-543/203, 12-13=-128/268, 13-14=-138/207, 14-15=0/31.

14-16=-188/193

14-16=-188/193 BOT CHORD 36-37=-142/275, 35

36-37=-142/275, 35-36=-142/275, 33-35=-138/259, 31-33=-138/259,

29-31=-138/259, 27-29=-138/259, 23-27=-138/265, 21-23=-137/265,

18-21=-137/265, 17-18=-142/276, 16-17=-142/275, 32-34=-4/19, 30-32=-4/19,

28-30=-4/19, 26-28=-4/19, 24-26=-4/19, 22-24=-6/17, 20-22=-6/17, 19-20=-6/17

37-41=-713/308, 40-41=-655/280, 4-40=-748/319, 34-35=-397/221, 4-34=-399/289, 18-19=-368/185,

12-19=-370/253, 12-43=-741/284, 43-44=-629/244, 16-44=-702/274,

5-39=-57/616, 38-39=-57/616, 38-42=-57/616, 11-42=-57/616, 8-38=-71/29, 26-27=-117/0, 7-39=-6/63, 28-29=-115/0,

26-27=-117/0, 7-39=-0/63, 26-29=-115/0, 30-31=-120/0, 32-33=-97/0, 3-40=-42/181, 36-41=-39/144, 9-42=-6/63, 24-25=-115/0,

22-23=-120/0, 20-21=-97/0, 13-43=-44/181, 17-44=-41/144

NOTES

WFBS

3 - 3 - 12

0-1-12

 Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-8-5 to 2-3-11, Exterior(2R) 2-3-11 to 17-7-5, Exterior(2E) 17-7-5 to 20-7-5 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

Page: 1

- 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); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; 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 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.

May 17,2022

Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 78 FARM AT NEILLS CREEK
22040116	G03	Attic Supported Gable	1	1	I51987080 Job Reference (optional)

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon May 16 23:36:41

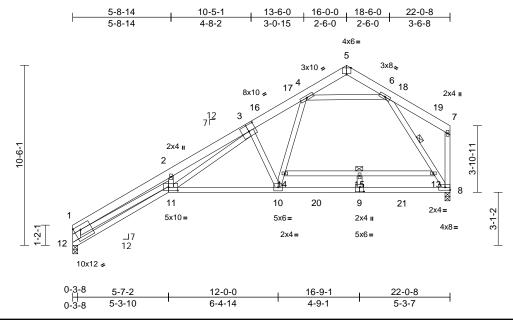
Page: 2

- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 10) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 11) Gable studs spaced at 2-0-0 oc.
- 12) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 13) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 14) Ceiling dead load (5.0 psf) on member(s). 4-5, 11-12, 5-39, 38-39, 38-42, 11-42; Wall dead load (5.0psf) on member(s).34-35, 4-34, 18-19, 12-19
- 15) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 261 lb uplift at joint 37, 227 lb uplift at joint 16, 194 lb uplift at joint 35, 159 lb uplift at joint 18, 109 lb uplift at joint 36 and 109 lb uplift at joint 17.
- 16) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 17) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 18) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 78 FARM AT NEILLS CREEK
22040116	H01	Roof Special	6	1	I51987081 Job Reference (optional)

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries. Inc. Mon May 16 23:36:42 ID:x3WhtBY6w3X0nFQ?ReWD6FzFwFG-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:67.3

Plate Offsets (X, Y): [3:0-5-0,0-4-8], [5:0-3-0,Edge], [9:0-3-0,0-3-0], [11:0-6-8,0-2-4], [12:0-4-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.99	Vert(LL)	-0.39	10-11	>664	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.74	10-11	>351	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.44	8	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 164 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP 2400F 2.0E *Except* 1-3:2x6 SP

No.2

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.3 *Except* 12-1:2x6 SP No.2,

11-1,13-14:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-1-15 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD bracing.

WEBS 1 Row at midpt 6-8. 13-14

REACTIONS 8=1019/0-3-8, 12=914/0-3-8 (lb/size)

Max Horiz 12=272 (LC 11)

Max Uplift 12=-34 (LC 14)

Max Grav 8=1019 (LC 1), 12=965 (LC 20) **FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD

1-12=-1177/217, 1-2=-4334/571,

2-4=-4068/694, 4-5=-33/119, 5-6=-527/66,

6-7=-94/169. 7-8=-61/259

BOT CHORD 11-12=-317/746, 10-11=-133/1726,

8-10=0/789

WEBS 1-11=-385/3332, 2-11=0/246,

3-11=-642/2452, 3-10=-1293/287, 10-14=-66/1450, 4-14=-27/1513, 6-13=-1249/115, 8-13=-1326/77,

14-15=-70/0, 13-15=-70/0, 9-15=0/131,

4-6=-511/82

NOTES

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

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-2-12 to 3-2-12, Interior (1) 3-2-12 to 13-0-0. Exterior(2R) 13-0-0 to 18-10-12. Exterior(2E) 18-10-12 to 21-10-12 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 200.0lb AC unit load placed on the bottom chord, 16-9-0 from left end, supported at two points, 5-0-0 apart.
- 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.
- Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 12. This connection is for uplift only and does not consider lateral forces.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE
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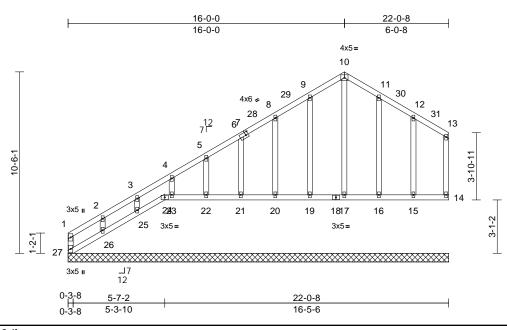
a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 78 FARM AT NEILLS CREEK
22040116	H02	Roof Special Structural Gable	1	1	I51987082 Job Reference (optional)

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon May 16 23:36:42 ID:DWIMNuBsIfQvL2sTt7VyadzFwH0-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:66.7

Plate Offsets	(X,	Y):	[7:0-1-12,0-2-4]	
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Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.19	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.14	Horiz(TL)	0.00	14	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 132 lb	FT = 20%

LUMBER TOP CHORD

2x4 SP No 2 2x4 SP No.2 BOT CHORD **WEBS** 2x4 SP No.3 **OTHERS** 2x4 SP No.3

BRACING TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 24-25.

REACTIONS (lb/size)

14=64/22-0-8, 15=161/22-0-8, 16=160/22-0-8, 17=142/22-0-8, 19=161/22-0-8, 20=154/22-0-8, 21=155/22-0-8, 22=156/22-0-8, 23=149/22-0-8, 24=8/22-0-8, 25=151/22-0-8, 26=166/22-0-8,

27=57/22-0-8 Max Horiz 27=267 (LC 11)

Max Uplift 14=-50 (LC 14), 15=-41 (LC 15), 16=-52 (LC 15), 17=-10 (LC 13), 19=-49 (LC 14), 20=-50 (LC 14), 21=-49 (LC 14), 22=-47 (LC 14), 23=-53 (LC 14), 24=-32 (LC 13),

25=-4 (LC 14), 26=-230 (LC 14), 27=-183 (LC 12)

Max Grav 14=68 (LC 21), 15=227 (LC 21), 16=243 (LC 21), 17=161 (LC 23), 19=245 (LC 20), 20=219 (LC 20), 21=162 (LC 23), 22=161 (LC 27), 23=155 (LC 23), 24=34 (LC 10),

25=151 (LC 1), 26=282 (LC 23), 27=292 (LC 11)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-27=-185/123, 1-2=-276/217, 2-3=-203/162, 3-4=-186/153, 4-5=-164/134, 5-6=-151/130,

6-8=-137/126, 8-9=-124/131, 9-10=-137/174, 10-11=-137/174, 11-12=-110/130,

12-13=-87/98, 13-14=-80/70

BOT CHORD 26-27=-100/77, 25-26=-67/70, 24-25=-73/60, 23-24=-53/51, 22-23=-53/51, 21-22=-53/51,

> 20-21=-53/51, 19-20=-53/51, 17-19=-53/51, 16-17=-53/51, 15-16=-53/51, 14-15=-53/51 10-17=-123/52, 9-19=-206/72, 8-20=-180/73,

6-21=-123/72, 5-22=-121/71, 4-23=-126/78,

3-25=-115/51, 2-26=-183/163, 11-16=-205/72, 12-15=-187/78

NOTES

WERS

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior (1) 3-1-12 to 13-0-0, Exterior(2R) 13-0-0 to 18-10-12, Exterior(2E) 18-10-12 to 21-10-12 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 DOI = 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); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.

- 8) 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 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.
- 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 24, 4 lb uplift at joint 25 and 230 lb uplift at joint 26.
- 13) _{N/A}
- 14) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 24, 14, 17, 19, 20, 21, 22, 23, 25, 26, 16, 15.



Continued on page 2

FORCES

Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

Design Valid to its 90 mly with win New Commercials. This design is based only upon parameters shown, and is 10 at an individual outlining Component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 78 FARM AT NEILLS CREEK
22040116	H02	Roof Special Structural Gable	1	1	Job Reference (optional)

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Page: 2

15) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

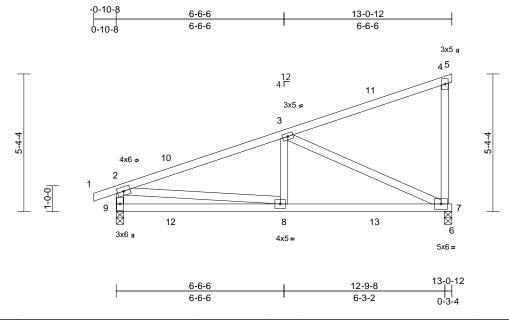


818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 78 FARM AT NEILLS CREEK
22040116	J01	Monopitch	3	1	I51987083 Job Reference (optional)

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries. Inc. Mon May 16 23:36:43 ID:UxC8s1x5IH5xuuOcBwY_cFzFn_8-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:44.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	0.10	7-8	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	0.08	7-8	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.01	7	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 72 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x4 SP No.3 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-11-2 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-7-1 oc

bracing.

REACTIONS (lb/size) 7=525/0-3-8 9=569/0-3-8

Max Horiz 9=203 (LC 11)

Max Uplift 7=-209 (LC 10), 9=-212 (LC 10) Max Grav 7=670 (LC 21), 9=614 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/19, 2-3=-867/750, 3-4=-134/75, 4-5=-8/0, 4-7=-266/109, 2-9=-553/473

BOT CHORD 8-9=-320/242, 7-8=-687/772, 6-7=0/0 WEBS 3-8=-336/246, 3-7=-810/811, 2-8=-369/558

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 10-0-12, Exterior(2E) 10-0-12 to 13-0-12 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 9 and 7. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



May 17,2022

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

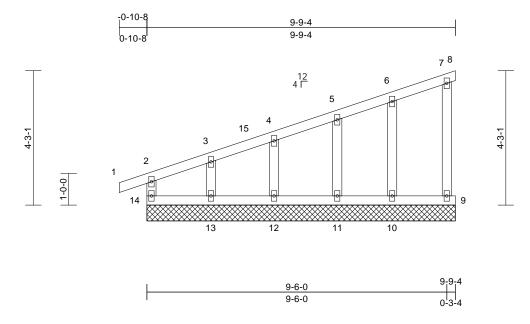
available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 78 FARM AT NEILLS CREEK
22040116	J02	Monopitch Supported Gable	1	1	Job Reference (optional)

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon May 16 23:36:43 ID:Y58EZzK9l67Ojpql3e6Uv_zFmze-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



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Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	-0.01	8	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 50 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 BOT CHORD 2x4 SP No.3 WEBS **OTHERS** 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

REACTIONS (lb/size)

10=148/9-9-4, 11=147/9-9-4, 12=166/9-9-4, 13=148/9-9-4, 14=142/9-9-4

8=2/9-9-4, 9=74/9-9-4,

Max Horiz 14=159 (LC 11)

Max Uplift 8=-32 (LC 10), 9=-33 (LC 11),

10=-28 (LC 10), 11=-35 (LC 14),

12=-24 (LC 10), 13=-80 (LC 14) Max Grav 8=26 (LC 13), 9=102 (LC 21),

10=201 (LC 21), 11=203 (LC 21),

12=216 (LC 21), 13=149 (LC 21),

14=154 (LC 25)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 2-14=-124/58, 1-2=0/19, 2-3=-145/22,

3-4=-90/25, 4-5=-83/26, 5-6=-72/23,

6-7=-64/62, 7-8=-23/14, 7-9=-88/32

BOT CHORD 13-14=-59/73, 12-13=-59/73, 11-12=-59/73,

10-11=-59/73, 9-10=-59/73

WEBS 4-12=-175/127, 3-13=-109/181,

5-11=-166/134, 6-10=-163/104

NOTES

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 2-0-6, Exterior(2N) 2-0-6 to 9-9-4 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
- 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); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads
- All plates are 2x4 MT20 unless otherwise indicated.
- 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 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 8, 33 lb uplift at joint 9, 24 lb uplift at joint 12, 80 lb uplift at joint 13, 35 lb uplift at joint 11 and 28 lb uplift at joint 10

13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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

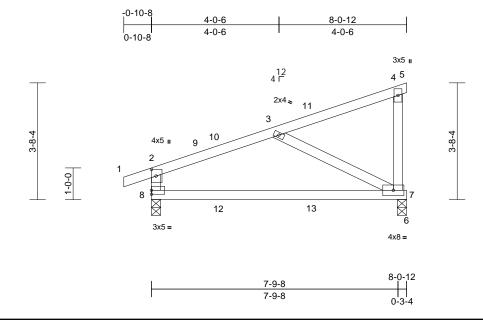
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 78 FARM AT NEILLS CREEK
22040116	J03	Monopitch	7	1	Job Reference (optional)

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries. Inc. Mon May 16 23:36:43 ID:4A6HwRWC_187eG3q??PEYMzFmzO-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:36.4

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	0.28	7-8	>328	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	0.22	7-8	>416	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.00	7	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 38 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No 2 **WEBS** 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 7-4-7 oc

bracing.

REACTIONS (lb/size) 7=324/0-3-8, 8=371/0-3-8

Max Horiz 8=136 (LC 11)

Max Uplift 7=-128 (LC 10), 8=-142 (LC 10)

Max Grav 7=439 (LC 21), 8=445 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/19, 2-3=-451/337, 3-4=-97/118, 4-5=-8/0, 4-7=-193/79, 2-8=-362/275

BOT CHORD 7-8=-330/375, 6-7=0/0

WFBS 3-7=-379/331

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 5-0-12, Exterior(2E) 5-0-12 to 8-0-12 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1 00: Ct=1 10
- Unbalanced snow loads have been considered for this design.

- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 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.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8 and 7. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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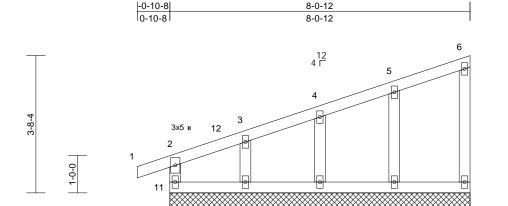
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 78 FARM AT NEILLS CREEK
22040116	J04	Monopitch Supported Gable	1	1	I51987086 Job Reference (optional)

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries. Inc. Mon May 16 23:36:44 ID:R8vAz9aKpZnPl2xonY_PFQzFmzJ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



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Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	I/defl		_	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	n/a	-	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 39 lb	FT = 20%

9

8-0-12

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 BOT CHORD 2x4 SP No.3 WEBS **OTHERS** 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

REACTIONS (lb/size)

7=58/8-0-12, 8=168/8-0-12, 9=155/8-0-12, 10=145/8-0-12,

Max Horiz 11=97 (LC 10)

11=136/8-0-12 Max Uplift 7=-12 (LC 10), 8=-38 (LC 14), 9=-20 (LC 10), 10=-86 (LC 14)

7=79 (LC 21), 8=228 (LC 21), Max Grav

9=212 (LC 21), 10=190 (LC 21),

11=136 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-11=-120/37, 1-2=0/19, 2-3=-204/64, 3-4=-132/41, 4-5=-83/28, 5-6=-31/15

BOT CHORD 10-11=0/0, 9-10=0/0, 8-9=0/0, 7-8=0/0 **WEBS** 4-9=-174/130, 3-10=-151/211, 5-8=-186/163,

6-7=-64/54

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 2-0-6, Exterior(2N) 2-0-6 to 4-11-0, Corner(3E) 4-11-0 to 7-11-0 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); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 7, 20 lb uplift at joint 9, 86 lb uplift at joint 10 and 38 lb uplift at joint 8.
- 14) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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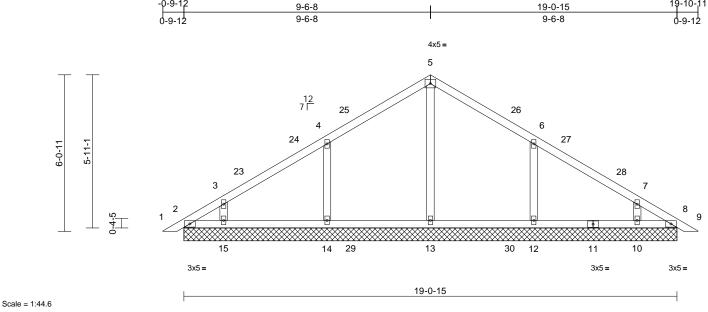
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 78 FARM AT NEILLS CREEK
22040116	PB1	Piggyback	10	1	Job Reference (optional)

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon May 16 23:36:44 ID:UWNIgCZass9xdfRGAgascczFn54-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	19	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 83 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x4 SP No.3 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (lb/size)

2=67/19-0-15. 8=67/19-0-15. 10=253/19-0-15, 12=346/19-0-15, 13=260/19-0-15, 14=346/19-0-15, 15=253/19-0-15, 16=67/19-0-15, 19=67/19-0-15

Max Horiz 2=138 (LC 13), 16=138 (LC 13) Max Uplift 2=-36 (LC 10), 8=-9 (LC 11), 10=-79 (LC 15), 12=-115 (LC 15),

14=-116 (LC 14), 15=-80 (LC 14), 16=-36 (LC 10), 19=-9 (LC 11)

Max Grav 2=89 (LC 25), 8=75 (LC 22), 10=310 (LC 25), 12=479 (LC 6), 13=374 (LC 24), 14=479 (LC 5), 15=311 (LC 24), 16=89 (LC 25),

19=75 (LC 22)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/16, 2-3=-127/108, 3-4=-130/87,

4-5=-147/128, 5-6=-147/111, 6-7=-90/52,

7-8=-91/55, 8-9=0/16

BOT CHORD 2-15=-39/90. 14-15=-39/90. 13-14=-39/90.

12-13=-39/90, 10-12=-39/90, 8-10=-39/90

5-13=-203/0, 4-14=-395/165, 3-15=-206/129,

6-12=-395/164, 7-10=-206/128

WEBS NOTES

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

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-3-11 to 3-3-11, Interior (1) 3-3-11 to 7-4-10, Exterior(2R) 7-4-10 to 13-4-10, Interior (1) 13-4-10 to 17-5-10, Exterior(2E) 17-5-10 to 20-5-10 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); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this 5) design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- 12) N/A
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

LOAD CASE(S) Standard



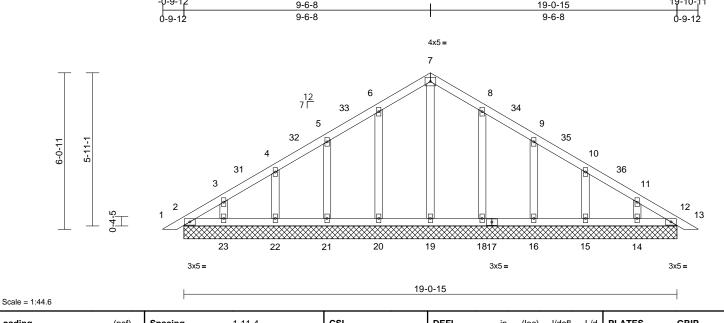
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Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 78 FARM AT NEILLS CREEK
22040116	PB2	Piggyback	1	1	I51987088 Job Reference (optional)

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Loading	(pst)	Spacing	1-11-4	CSI		DEFL	ın	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	12	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 101 lb	FT = 20%

LUMBER	
TOP CHORD	
BUT CHUBD	

2x4 SP No.2 2x4 SP No.3 **OTHERS** BRACING

TOP CHORD

Structural wood sheathing directly applied or

6-0-0 oc purlins.

2x4 SP No.2

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (lb/size)

2=90/19-0-15. 12=90/19-0-15. 14=144/19-0-15, 15=158/19-0-15, 16=153/19-0-15, 18=161/19-0-15, 19=128/19-0-15, 20=161/19-0-15, 21=153/19-0-15, 22=158/19-0-15 23=144/19-0-15, 24=90/19-0-15, 27=90/19-0-15

Max Horiz 2=-134 (LC 12), 24=-134 (LC 12) Max Uplift 2=-24 (LC 10), 14=-47 (LC 15), 15=-49 (LC 15), 16=-50 (LC 15), 18=-50 (LC 15), 20=-51 (LC 14), 21=-49 (LC 14), 22=-49 (LC 14),

23=-49 (LC 14), 24=-24 (LC 10) Max Grav 2=102 (LC 29), 12=91 (LC 22), 14=151 (LC 25), 15=164 (LC 25), 16=219 (LC 22), 18=245 (LC 22), 19=149 (LC 27), 20=245 (LC 21), 21=219 (LC 21), 22=164 (LC 24),

23=153 (LC 24), 24=102 (LC 29),

27=91 (LC 22) FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=0/16, 2-3=-114/100, 3-4=-96/86, 4-5=-87/74, 5-6=-76/99, 6-7=-82/124, 7-8=-82/116, 8-9=-64/68, 9-10=-49/36 10-11=-57/34, 11-12=-79/48, 12-13=0/16

2-23=-42/92, 22-23=-42/92, 21-22=-42/92, 20-21=-42/92, 19-20=-42/92, 18-19=-42/92, 16-18=-42/92, 15-16=-42/92, 14-15=-42/92, 12-14=-42/92

WEBS 7-19=-110/5, 6-20=-206/74, 5-21=-180/72, 4-22=-126/74, 3-23=-110/64, 8-18=-206/73,

9-16=-180/72, 10-15=-126/74, 11-14=-110/63

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-3-11 to 3-3-11, Interior (1) 3-3-11 to 7-4-10, Exterior(2R) 7-4-10 to 13-4-10, Interior (1) 13-4-10 to 17-5-10, Exterior(2E) 17-5-10 to 20-5-10 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); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 11) * This truss has been designed for a live load of 20.0psf 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) N/A
- 13) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 14) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



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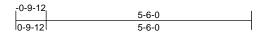
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

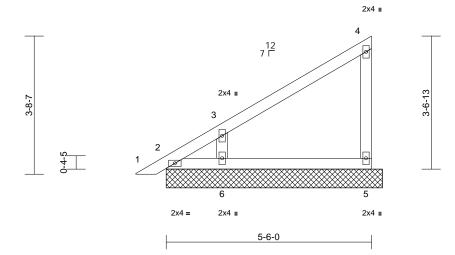


Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 78 FARM AT NEILLS CREEK
22040116	PB3	Piggyback	4	1	Job Reference (optional)

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries. Inc. Mon May 16 23:36:44 ID:0qyafw_?OUWQ4iiU?QBuZpzFzim-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:30.9

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	0.32	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 24 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 BOT CHORD 2x4 SP No.3 WEBS **OTHERS** 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

REACTIONS (lb/size) 2=23/5-9-8, 5=125/5-9-8, 6=312/5-9-8, 7=23/5-9-8

Max Horiz 2=124 (LC 14), 7=124 (LC 14) Max Uplift 2=-18 (LC 12), 5=-39 (LC 14), 6=-101 (LC 14), 7=-18 (LC 12) Max Grav 2=62 (LC 14), 5=185 (LC 21),

6=461 (LC 21), 7=62 (LC 14)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/16, 2-3=-182/114, 3-4=-114/58 BOT CHORD 2-6=-29/2. 5-6=0/0

WEBS 3-6=-420/225, 4-5=-152/78

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 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); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

- 4) Unbalanced snow loads have been considered for this
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) N/A
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard



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AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

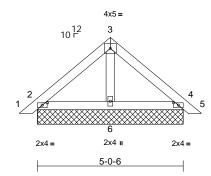


Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 78 FARM AT NEILLS CREEK
22040116	PB5	Piggyback	10	1	Job Reference (optional)

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries. Inc. Mon May 16 23:36:45 ID:FdqRVfn0ZNVmMDACD34oHRzTR4m-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1







Scale = 1:39.8

Plate Offsets (X, Y): [2:0-2-1,0-1-0], [4:0-2-1,0-1-0]

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 22 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No 2 OTHERS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (lb/size)

2=140/5-0-6, 4=140/5-0-6, 6=156/5-0-6, 7=140/5-0-6,

11=140/5-0-6

Max Horiz 2=-55 (LC 12), 7=-55 (LC 12)

Max Uplift 2=-24 (LC 14), 4=-31 (LC 15),

7=-24 (LC 14), 11=-31 (LC 15)

Max Grav 2=199 (LC 21), 4=199 (LC 22),

6=163 (LC 21), 7=199 (LC 21),

11=199 (LC 22)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/24, 2-3=-117/104, 3-4=-117/104,

4-5=0/24

BOT CHORD 2-6=-16/55, 4-6=-9/55 WEBS 3-6=-63/0

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00: Ct=1.10
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- Gable requires continuous bottom chord bearing.
- 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.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 11) _{N/A}
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

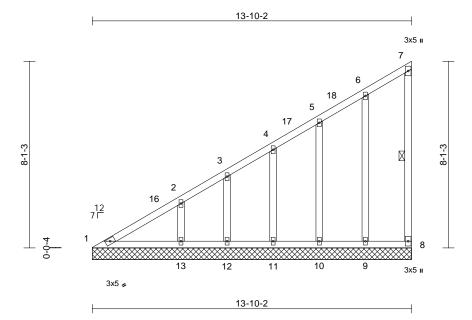


May 17,2022

Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 78 FARM AT NEILLS CREEK
22040116	V1	Valley	1	1	I51987091 Job Reference (optional)

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries. Inc. Mon May 16 23:36:45 ID:obl8CR79AVIhJxhIYr2zsHzhpM4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale	=	1:50

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.20	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.17	Horiz(TL)	0.00	8	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0	ļ									Weight: 85 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 BOT CHORD 2x4 SP No.3 WEBS **OTHERS** 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD bracing.

WEBS 1 Row at midpt 7-8

REACTIONS (lb/size)

1=122/13-10-2, 8=58/13-10-2, 9=164/13-10-2, 10=150/13-10-2, 11=170/13-10-2, 12=94/13-10-2,

13=302/13-10-2

Max Horiz 1=270 (LC 11) 1=-11 (LC 10), 8=-40 (LC 13), Max Uplift

9=-54 (LC 14), 10=-46 (LC 14), 11=-52 (LC 14), 12=-40 (LC 14),

13=-72 (LC 14)

Max Grav 1=164 (LC 24), 8=87 (LC 20),

9=243 (LC 20), 10=220 (LC 20), 11=179 (LC 20), 12=101 (LC 23),

13=308 (LC 23)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-263/158, 2-3=-190/116, 3-4=-164/108,

4-5=-152/97, 5-6=-143/97, 6-7=-104/107,

7-8=-72/30

BOT CHORD 1-13=-114/184. 12-13=-114/142. 11-12=-114/142, 10-11=-114/142,

9-10=-114/142, 8-9=-114/142

WEBS 6-9=-201/63, 5-10=-184/114, 4-11=-132/96,

3-12=-92/80, 2-13=-201/142

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-0-7 to 3-0-7, Exterior(2N) 3-0-7 to 10-8-13, Corner(3E) 10-8-13 to 13-8-13 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
- 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); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing. 6)
- 7) 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.
- * 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 8, 11 lb uplift at joint 1, 54 lb uplift at joint 9, 46 lb uplift at joint 10, 52 lb uplift at joint 11, 40 lb uplift at joint 12 and 72 lb uplift at joint 13.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



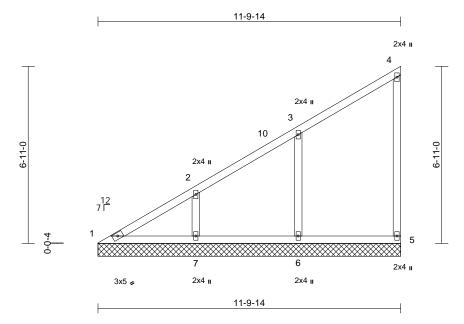
May 17,2022

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Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 78 FARM AT NEILLS CREEK
22040116	V2	Valley	1	1	I51987092 Job Reference (optional)

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries. Inc. Mon May 16 23:36:45 ID:dZR1oJ6SMNhWOks6TOXq3xzTR1m-RfC?PsB70Hq3NSqPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale	_	1.4	5

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	0.46	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.16	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.15	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 55 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 BOT CHORD 2x4 SP No.3 WEBS **OTHERS** 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (lb/size)

1=123/11-9-14, 5=128/11-9-14, 6=337/11-9-14, 7=346/11-9-14

Max Horiz 1=236 (LC 11)

Max Uplift 1=-4 (LC 10), 5=-35 (LC 11), 6=-109 (LC 14), 7=-94 (LC 14)

Max Grav 1=167 (LC 24), 5=211 (LC 5),

6=491 (LC 5), 7=413 (LC 23)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-268/139, 2-3=-160/110, 3-4=-136/89,

4-5=-159/45

BOT CHORD 1-7=-99/196 6-7=-99/110 5-6=-99/110

3-6=-387/152, 2-7=-254/148 WFBS

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-7 to 3-0-7, Interior (1) 3-0-7 to 8-8-9, Exterior(2E) 8-8-9 to 11-8-9 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); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 5, 4 lb uplift at joint 1, 109 lb uplift at joint 6 and 94 lb uplift at joint 7.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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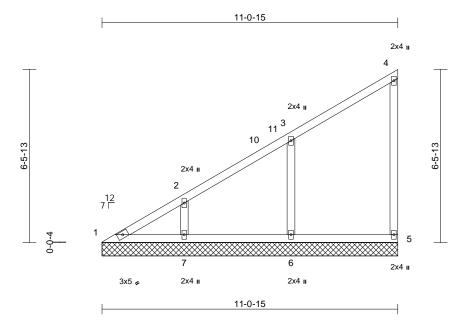
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 78 FARM AT NEILLS CREEK
22040116	V3	Valley	1	1	Job Reference (optional)

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon May 16 23:36:45 ID:dlfQSUCwlL2q1s9Sv59O5YzhpM_-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:43.1

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	0.40	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.16	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.13	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0	ļ									Weight: 51 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 BOT CHORD 2x4 SP No.3 WEBS **OTHERS** 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

REACTIONS (lb/size)

1=94/11-0-15, 5=126/11-0-15, 6=347/11-0-15, 7=308/11-0-15

Max Horiz 1=221 (LC 11)

Max Uplift 1=-11 (LC 10), 5=-33 (LC 11), 6=-61 (LC 14), 7=-86 (LC 14)

Max Grav 1=137 (LC 24), 5=209 (LC 5),

6=501 (LC 5), 7=364 (LC 23)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-213/130, 2-3=-153/110, 3-4=-133/82,

4-5=-158/44

1-7=-93/142. 6-7=-93/103. 5-6=-93/103

BOT CHORD 3-6=-392/141, 2-7=-229/129 WFBS

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-7 to 3-1-6, Interior (1) 3-1-6 to 6-8-11, Exterior(2R) 6-8-11 to 10-11-10 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); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 5, 11 lb uplift at joint 1, 61 lb uplift at joint 6 and 86 lb uplift at joint 7.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



May 17,2022

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

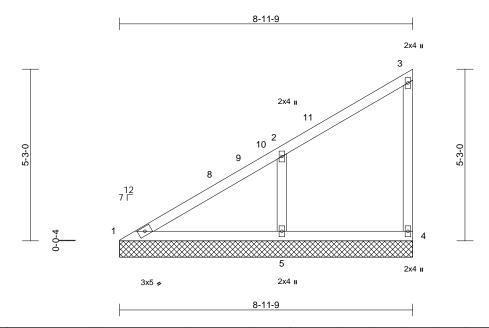
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 78 FARM AT NEILLS CREEK
22040116	V4	Valley	1	1	Job Reference (optional)

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries. Inc. Mon May 16 23:36:45 ID:WLgYeg9zPbBytL9tiEbmDnzTR1i-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.23	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.10	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 38 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 BOT CHORD 2x4 SP No.3 WEBS **OTHERS** 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

1=158/8-11-9, 4=102/8-11-9, REACTIONS (lb/size)

5=446/8-11-9

Max Horiz 1=177 (LC 11) Max Uplift 4=-27 (LC 11), 5=-112 (LC 14)

Max Grav 1=167 (LC 24), 4=165 (LC 20),

5=575 (LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-265/128, 2-3=-124/65, 3-4=-144/45

BOT CHORD 1-5=-79/227, 4-5=-79/86

WFBS 2-5=-442/189

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-7 to 3-0-7, Interior (1) 3-0-7 to 4-7-5, Exterior(2R) 4-7-5 to 8-10-4 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
- 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); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this desian.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 4 and 112 lb uplift at joint 5.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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

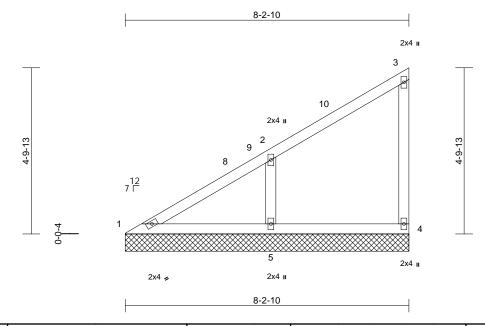
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chorembers 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

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 78 FARM AT NEILLS CREEK
22040116	V5	Valley	1	1	Job Reference (optional)

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries. Inc. Mon May 16 23:36:46 ID:VWvwIsFRpZYGWTSD8xEKGOzhpLw-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale =	1:33.
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Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.15	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 35 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 BOT CHORD 2x4 SP No.3 WEBS **OTHERS** 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

1=130/8-2-10, 4=112/8-2-10, REACTIONS (lb/size)

5=403/8-2-10 Max Horiz 1=161 (LC 11)

Max Uplift 4=-26 (LC 11), 5=-107 (LC 14)

Max Grav 1=142 (LC 24), 4=175 (LC 20),

5=535 (LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-220/116, 2-3=-117/58, 3-4=-150/44

BOT CHORD 1-5=-72/181, 4-5=-72/79

WFBS 2-5=-419/186

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-7 to 3-0-7, Interior (1) 3-0-7 to 3-10-7, Exterior(2R) 3-10-7 to 8-1-5 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); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this desian.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 4 and 107 lb uplift at joint 5.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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

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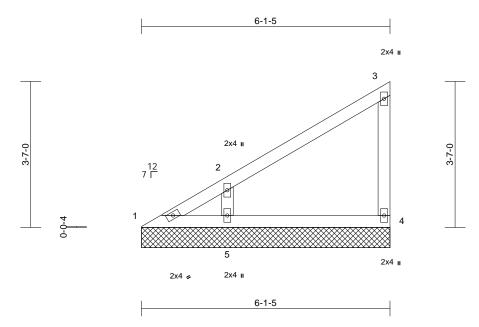
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 78 FARM AT NEILLS CREEK
22040116	V6	Valley	1	1	Job Reference (optional)

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries. Inc. Mon May 16 23:36:46 ID:9eP49nIUaHiFJB4BPlpajJzTR1W-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scal	le	=	1	:28	.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 24 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 BOT CHORD 2x4 SP No.3 WEBS **OTHERS** 2x4 SP No.3

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

REACTIONS (lb/size) 1=31/6-1-5, 4=125/6-1-5,

5=320/6-1-5

Max Horiz 1=117 (LC 11)

Max Uplift 1=-12 (LC 10), 4=-24 (LC 14),

5=-90 (LC 14) Max Grav 1=55 (LC 24), 4=186 (LC 20),

5=462 (LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-106/99, 2-3=-114/58, 3-4=-153/42

BOT CHORD 1-5=-54/59. 4-5=-54/59

WEBS 2-5=-415/211

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 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); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

- 4) Unbalanced snow loads have been considered for this
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 4, 12 lb uplift at joint 1 and 90 lb uplift at joint 5.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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

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Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 78 FARM AT NEILLS CREEK
22040116	V7	Valley	1	1	Job Reference (optional)

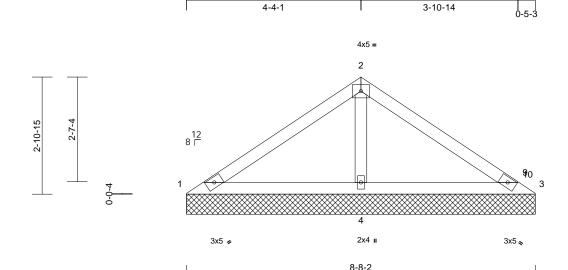
4-4-1

Carter Components (Sanford), Sanford, NC - 27332

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon May 16 23:36:46 $ID: BJ weu yr 2dKwh U0kO5sRv9pzG_Fp-RfC? PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC? full for the property of the$

8-2-15

Page: 1



Scale = 1:28.7

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	0.38	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.36	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.11	Horiz(TL)	0.00	4	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0										Weight: 30 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x4 SP No.3 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

8-8-2 oc purlins.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (lb/size) 1=32/8-8-2 3=6/8-8-2 4=629/8-8-2

Max Horiz 1=64 (LC 11)

Max Uplift 1=-37 (LC 21), 3=-51 (LC 20),

4=-77 (LC 14)

Max Grav 1=102 (LC 20), 3=65 (LC 21),

4=668 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-111/329, 2-3=-110/329

BOT CHORD 1-4=-221/152, 3-4=-221/152

WFBS 2-4=-494/210

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-6 to 3-0-6, Exterior(2R) 3-0-6 to 5-3-2, Exterior(2E) 5-3-2 to 8-3-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss 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); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 1, 51 lb uplift at joint 3 and 77 lb uplift at joint 4.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



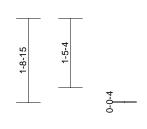
May 17,2022

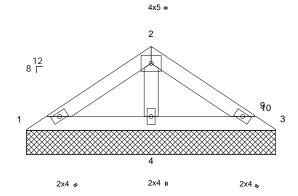


Job	Truss	Truss Type	Qty	Ply	DRB GROUP - 78 FARM AT NEILLS CREEK
22040116	V8	Valley	1	1	Job Reference (optional)

Run: 8.53 S Apr 27 2022 Print: 8.530 S Apr 27 2022 MiTek Industries, Inc. Mon May 16 23:36:46 ID:BJweuyr2dKwhU0kO5sRv9pzG_Fp-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f







5-2-2

Scale = 1:23.9

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	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999			
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	4	n/a	n/a			
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP									
BCDL	10.0										Weight: 17 lb	FT = 20%	

LUMBER

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x4 SP No.3 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-2-2 oc purlins.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (lb/size) 1=53/5-2-2, 3=29/5-2-2,

4=305/5-2-2

Max Horiz 1=36 (LC 11) Max Uplift 1=-4 (LC 14), 4=-29 (LC 14)

Max Grav 1=88 (LC 20), 3=55 (LC 21), 4=306

(LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-87/116, 2-3=-66/114 1-4=-84/72, 3-4=-84/72

BOT CHORD 2-4=-190/102 WFBS

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 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); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Fully Exp.; Ce=0.9; Cs=1.00; Ct=1.10

- Unbalanced snow loads have been considered for this 5) design.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 1 and 29 lb uplift at joint 4.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



May 17,2022

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

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



Edenton, NC 27932

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Symbols

PLATE LOCATION AND ORIENTATION



offsets are indicated. Center plate on joint unless x, y and fully embed teeth Apply plates to both sides of truss Dimensions are in ft-in-sixteenths



edge of truss. plates 0- 1/16" from outside For 4 x 2 orientation, locate

connector plates. required direction of slots in This symbol indicates the

* Plate location details available in MiTek 20/20 software or upon request.

PLATE SIZE



to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



by text in the bracing section of the output. Use T or I bracing if indicated. ndicated by symbol shown and/or

BEARING



Min size shown is for crushing only number where bearings occur. reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

Industry Standards:

National Design Specification for Metal Building Component Safety Information Installing & Bracing of Metal Plate Connected Wood Trusses. Guide to Good Practice for Handling Design Standard for Bracing. Plate Connected Wood Truss Construction.

DSB-89: ANSI/TPI1:

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

truss unless otherwise shown. Trusses are designed for wind loads in the plane of the

established by others. section 6.3 These truss designs rely on lumber values Lumber design values are in accordance with ANSI/TPI 1

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ Truss bracing must be designed by an engineer. For bracing should be considered. may require bracing, or alternative Tor I wide truss spacing, individual lateral braces themselves
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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designer, erection supervisor, property owner and all other interested parties. Provide copies of this truss design to the building

4.

- Cut members to bear tightly against each other
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.

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- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication

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- 9 Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the camber for dead load deflection. responsibility of truss fabricator. General practice is to
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- 13. Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted
- Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer
- 17. Install and load vertically unless indicated otherwise.
- 18. Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.