

Trenco 818 Soundside Rd Edenton, NC 27932

Re: 22030101

DRB - 97 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: I51218096 thru I51218118

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

North Carolina COA: C-0844



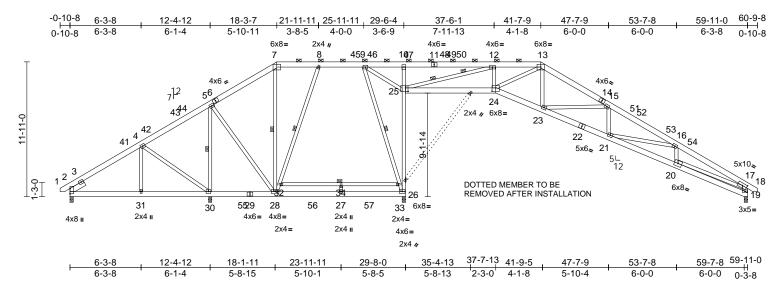
April 7,2022

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 - 97 FARM AT NEILLS CREEK	
22030101	A01	Piggyback Base	7	1	Job Reference (optional)	I51218096

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Wed Apr 06 13:42:56 ID:vmWSYKxMeSKeeaoGnh3QrczhvSE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:101.9

Plate Offsets (X, Y): [17:0-4-15,0-2-8], [24:0-4-0,0-3-8], [25:0-2-12,0-3-12]

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	0.58	Vert(LL)	-0.30	21	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.52	21-23	>702	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.89	Horz(CT)	0.27	19	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 512 lb	FT = 20%

LUMBER

2x6 SP No.2 TOP CHORD

BOT CHORD 2x6 SP No.2 *Except* 26-10:2x4 SP No.2

WEBS 2x4 SP No.3 *Except*

28-7,25-12,20-17,28-8,26-9,32-33:2x4 SP

No.2, 19-17:2x6 SP No.2 Left 2x6 SP No.2 -- 1-6-0

SLIDER **BRACING**

TOP CHORD Structural wood sheathing directly applied or

3-2-10 oc purlins, except end verticals, and

2-0-0 oc purlins (4-5-7 max.): 7-13. BOT CHORD Rigid ceiling directly applied or 3-4-10 oc

bracing.

WFBS 1 Row at midpt 5-30, 7-28, 8-28, 9-26,

32-33

WFBS 2 Rows at 1/3 pts 12-25

REACTIONS (lb/size) 2=163/0-3-8, 19=1185/0-3-8,

26=1966/0-3-8, 30=1756/0-3-8

Max Horiz 2=283 (LC 13)

Max Uplift 2=-181 (LC 15), 19=-248 (LC 15), 26=-10 (LC 10), 30=-97 (LC 14)

2=288 (LC 49), 19=1396 (LC 49), Max Grav

26=2133 (LC 44), 30=2089 (LC 35)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/20, 2-4=-197/493, 4-5=-85/903, TOP CHORD 5-7=-198/283, 7-8=-148/274, 8-9=-144/313,

9-10=0/1077, 10-12=0/974,

12-13=-2625/358, 13-15=-2731/412, 15-16=-4060/639, 16-17=-4065/665,

17-18=0/27, 17-19=-1531/330 BOT CHORD

2-31=-336/215, 30-31=-336/137 28-30=-655/0, 27-28=-151/111

26-27=-151/111, 25-26=-2019/430,

10-25=-397/202, 24-25=0/2589, 23-24=-8/2400, 21-23=-384/3764

20-21=-531/3731, 19-20=-157/735

WEBS

4-31=0/304, 4-30=-689/140, 5-30=-1582/14, 5-28=0/1071, 7-28=-420/95, 9-25=-1284/386,

12-25=-3545/333, 12-24=0/910,

13-24=-185/838, 13-23=-117/822

15-23=-1267/337, 17-20=-358/2863, 15-21=0/267, 16-21=-152/158,

16-20=-351/138, 28-32=-143/235

8-32=-117/259 9-33=-296/484

26-33=-316/459, 32-34=-16/14,

33-34=-16/14, 27-34=0/64

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) -0-8-1 to 5-3-14, Interior (1) 5-3-14 to 9-9-12, Exterior(2R) 9-9-12 to 26-9-2, Interior (1) 26-9-2 to 33-1-14, Exterior(2R) 33-1-14 to 50-1-4, Interior (1) 50-1-4 to 54-7-2, Exterior(2E) 54-7-2 to 60-7-1 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.
- 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
- Provide adequate drainage to prevent water ponding.

- 8) All plates are 4x5 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 11) Bearing at joint(s) 19 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 12) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2, 30, 19, and 26. 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.
- 14) 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



April 7,2022

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

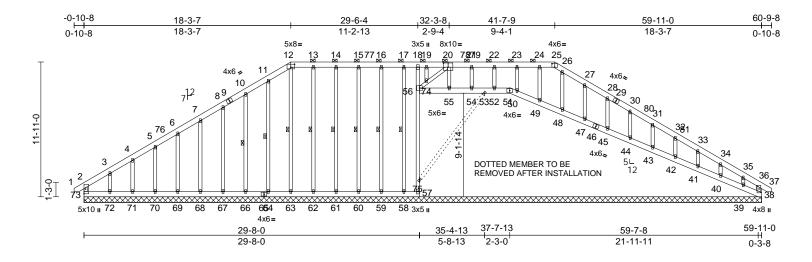
a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing 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 ANS/ITPI 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 - 97 FARM AT NEILLS CREEK	
22030101	A02	Piggyback Base Supported Gable	1	1	Job Reference (optional)	I51218097

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Wed Apr 06 13:42:58 ID:ACS0SGCfmETEfJzgbpcWMMzhrbl-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:101.9

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	0.36	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	0.23	Horz(CT)	0.03	38	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 554 lb	FT = 20%

LUMBER	
TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2 *Except* 57-18:2x4 SP No.2
WEBS	2x4 SP No.3 *Except* 38-36:2x6 SP No.2
OTHERS	2x4 SP No.3 *Except*
	63-12,62-13,61-14,60-15,59-16,58-17:2x4 SP
	No.2

BRACING TOP CHORD

OP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and

2-0-0 oc purlins, except end verticals 2-0-0 oc purlins (6-0-0 max.): 12-25.

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

WEBS 1 Row at midpt 10-66, 11-64, 12-63, 13-62, 14-61, 15-60,

16-59, 17-58

REACTIONS (lb/size) 38=18

38=181/59-11-0, 39=57/59-11-0, 40=170/59-11-0, 41=152/59-11-0 42=156/59-11-0. 43=155/59-11-0. 44=155/59-11-0, 45=155/59-11-0, 47=159/59-11-0, 48=121/59-11-0, 49=142/59-11-0. 50=116/59-11-0. 51=82/59-11-0, 52=-78/59-11-0, 53=429/59-11-0, 57=3/59-11-0, 58=132/59-11-0, 59=140/59-11-0, 60=156/59-11-0, 61=156/59-11-0, 62=159/59-11-0, 63=149/59-11-0, 64=158/59-11-0, 66=156/59-11-0, 67=155/59-11-0, 68=155/59-11-0, 69=155/59-11-0, 70=156/59-11-0, 71=151/59-11-0, 72=170/59-11-0, 73=124/59-11-0, 75=290/59-11-0

73=124/59-11-0, Max Horiz 73=282 (LC 13) 41=-51 (LC 15), 42=-48 (LC 15), 43=-49 (LC 15), 44=-49 (LC 15), 45=-48 (LC 15), 47=-69 (LC 15), 49=-25 (LC 11), 50=-29 (LC 10), 51=-7 (LC 11), 52=-78 (LC 42), 53=-106 (LC 10), 57=-1 (LC 48), 58=-13 (LC 10), 59=-23 (LC 11), 60=-27 (LC 10), 61=-31 (LC 10), 62=-29 (LC 11), 63=-36 (LC 13), 64=-33 (LC 14), 66=-56 (LC 14), 67=-49 (LC 14), 68=-49 (LC 14), 69=-48 (LC 14), 70=-53 (LC 14), 71=-31 (LC 15), 72=-169 (LC 11), 73=-257 (LC 10), 75=-59 (LC 11)

Max Uplift 39=-102 (LC 15), 40=-41 (LC 15),

Max Grav 38=181 (LC 22), 39=120 (LC 49), 40=171 (LC 25), 41=160 (LC 49), 42=213 (LC 43), 43=242 (LC 43), 44=238 (LC 43), 45=238 (LC 43), 45=247 (LC 43), 49=195 (LC 38), 50=173 (LC 38), 51=90 (LC 38), 52=35 (LC 15), 53=489 (LC 38), 57=13 (LC 10), 58=133 (LC 38), 59=169 (LC 38), 60=215 (LC 38), 61=219 (LC 38), 62=219 (LC 38), 66=242 (LC 41), 66=242 (LC 41), 67=238 (LC 41), 68=240 (

69=229 (LC 41), 70=169 (LC 41),

71=152 (LC 39), 72=301 (LC 24),

73=315 (LC 13), 75=296 (LC 38) (lb) - Maximum Compression/Maximum Tension TOP CHORD 2-73=-237/204, 1-2=0/24, 2-3=-344/343, 3-4=-288/295, 4-5=-283/302, 5-6=-269/297, 6-7=-255/321, 7-8=-242/348, 8-10=-229/376, 10-11=-224/409, 11-12=-244/442, 12-13=-217/405, 13-14=-217/405, 14-15=-217/405, 15-16=-217/405, 16-17=-217/405, 17-18=-217/405, 18-19=-219/400, 19-21=-234/400, 21-22=-234/333, 22-23=-234/333, 23-24=-234/333, 24-25=-234/333,

27-28=-232/306, 28-30=-206/261, 30-31=-180/216, 31-32=-154/171, 32-33=-128/125, 33-34=-117/80, 34-35=-113/35, 35-36=-143/21, 36-37=0/26

25-26=-237/320, 26-27=-265/360,

36-38=-173/31



April 7,2022

Continued on page 2

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

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

FORCES



Qty Ply Job Truss Truss Type DRB - 97 FARM AT NEILLS CREEK 151218097 22030101 A02 Piggyback Base Supported Gable Job Reference (optional)

Carter Components (Sanford), Sanford, NC - 27332,

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Wed Apr 06 13:42:58 ID:ACS0SGCfmETEfJzgbpcWMMzhrbI-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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BOT CHORD 72-73=-2/2 71-72=-2/2 70-71=-2/2 69-70=-2/2, 68-69=-2/2, 67-68=-2/2, 66-67=-2/2. 64-66=-2/2. 63-64=-2/2. 62-63=-2/2, 61-62=-2/2, 60-61=-2/2, 59-60=-2/2, 58-59=-2/2, 57-58=-2/2. 57-75=0/0, 56-75=-296/59, 18-56=-160/92, 55-56=-23/98. 54-55=-21/100. 53-54=-21/100, 52-53=-21/100, 51-52=-21/100, 50-51=-26/110, 49-50=-31/115, 48-49=-30/115, 47-48=-31/115, 45-47=-31/115, 44-45=-31/115, 43-44=-31/115, 42-43=-31/115, 41-42=-31/115, 40-41=-31/115, 39-40=-31/118, 38-39=-25/100 WEBS 3-72=-192/123, 4-71=-115/68, 5-70=-129/73, 6-69=-191/72, 7-68=-201/72, 8-67=-199/72, 10-66=-203/79, 11-64=-203/56, 12-63=-169/75, 13-62=-180/52, 14-61=-180/54, 15-60=-177/50, 16-59=-130/46, 17-58=-92/37, 19-74=-19/5, 20-55=-1/68, 21-54=-182/65, 22-52=-222/56, 23-50=-153/53, 24-49=-154/49, 26-48=-145/15, 27-47=-208/92, 28-45=-199/71, 30-44=-199/72, 31-43=-203/72, 32-42=-174/72, 33-41=-122/72, 34-40=-129/70, 35-39=-91/93, 56-74=-128/28, 20-74=-118/26

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 Corner(3E) -0-8-1 to 5-3-14, Exterior(2N) 5-3-14 to 12-3-8, Corner(3R) 12-3-8 to 24-3-8, Exterior (2N) 24-3-8 to 35-7-11, Corner(3R) 35-7-11 to 47-7-8, Exterior(2N) 47-7-8 to 54-7-2, Corner(3E) 54-7-2 to 60-7-1 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.
- 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
- 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.
- 14) Bearing at joint(s) 75 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 15) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint

- 18) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 51, 52, 50, 49, 48, 47,
- 45, 44, 43, 42, 41, 40, 39, 53. 19) 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.
- 20) 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

16) N/A

17) N/A



818 Soundside Road Edenton, NC 27932

Ţ,	Job	Truss	Truss Type	Qty	Ply	DRB - 97 FARM AT NEILLS CREEK		
	22030101	B01	Roof Special	4	1	Job Reference (optional)	I51218098	

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Wed Apr 06 13:43:00 ID:wEsxu2PHLUbbwrpGGIKVTFzhpmq-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

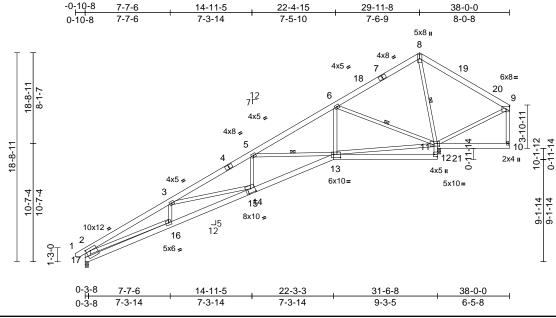


Plate Offsets (X, Y): [2:0-4-12,0-2-12], [11:0-2-4,0-3-0], [12:Edge,0-3-8], [13:0-7-4,0-3-8], [15:0-4-12,0-4-8]

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	0.80	Vert(LL)	0.26	14-16	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.48	14-16	>775	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.19	11	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 302 lb	FT = 20%

LUMBER

Scale = 1:103.2

2x6 SP No.2 TOP CHORD

BOT CHORD 2x6 SP No.2 *Except* 12-11:2x4 SP No.2 **WEBS**

2x4 SP No.3 *Except* 17-2:2x6 SP No.2,

16-2:2x4 SP No.2 BRACING

TOP CHORD

Structural wood sheathing directly applied or 3-3-10 oc purlins, except end verticals.

Rigid ceiling directly applied or 6-7-8 oc

BOT CHORD bracing.

WFBS

1 Row at midpt 5-13, 6-11, 8-11 11=1816/0-3-8, 17=1248/0-3-8

REACTIONS (lb/size) Max Horiz 17=483 (LC 14)

Max Uplift 11=-275 (LC 14), 17=-94 (LC 14)

Max Grav 11=1816 (LC 1), 17=1289 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/27, 2-3=-3913/870, 3-5=-3481/789,

5-6=-2160/496, 6-8=-104/294, 8-9=-126/632,

2-17=-1479/394, 9-10=-108/132 16-17=-706/1044, 14-16=-1233/3713,

BOT CHORD 13-14=-996/3272, 12-13=-16/165,

11-12=0/187, 10-11=-43/59

WEBS 3-16=-211/164, 3-14=-408/216, 5-14=0/391,

5-13=-1256/411, 6-13=-239/1278, 6-11=-1927/580, 8-11=-919/238, 2-16=-507/2637, 9-11=-468/258,

11-13=-473/1582

NOTES

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) -0-8-1 to 2-8-12, Interior (1) 2-8-12 to 26-6-11, Exterior(2R) 26-6-11 to 33-4-5, Interior (1) 33-4-5 to 34-5-7, Exterior(2E) 34-5-7 to 37-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 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
- 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) 17 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) 11 and 17. 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



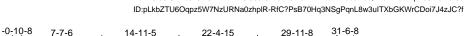
April 7,2022

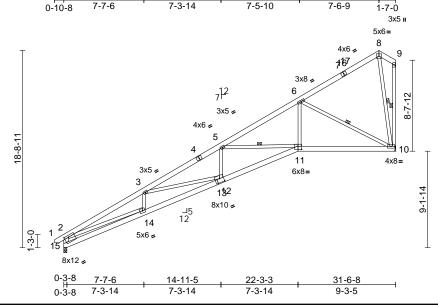
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 - 97 FARM AT NEILLS CREEK	
22030101	B02	Roof Special	3	1	Job Reference (optional)	I51218099

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Wed Apr 06 13:43:00





Scale = 1:109.5

Plate Offsets (X, Y): [11:0-4-0,0-3-8], [13:0-4-12,0-4-8], [15:0-5-0,0-2-0]

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)	0.27	12-14	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.49	12-14	>763	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.22	10	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 253 lb	FT = 20%

LUMBER

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

WEBS 2x4 SP No.3 *Except* 15-2:2x6 SP No.2,

14-2:2x4 SP No.2 BRACING

TOP CHORD Structural wood sheathing directly applied or

3-3-2 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 6-8-5 oc

bracing. WFBS

1 Row at midpt 5-11, 6-10, 9-10, 8-10

REACTIONS (lb/size) 10=1246/ Mechanical,

15=1301/0-3-8

Max Horiz 15=512 (LC 11)

Max Uplift 10=-298 (LC 14), 15=-92 (LC 14) Max Grav 10=1300 (LC 24), 15=1305 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/27, 2-3=-3986/852, 3-5=-3565/764,

5-6=-2242/471, 6-8=-243/104, 8-9=-168/173,

2-15=-1508/389, 9-10=-144/126

BOT CHORD 14-15=-697/1068, 12-14=-1209/3869, 11-12=-965/3475, 10-11=-457/1908

WEBS 3-14=-216/161, 3-12=-364/223, 5-12=0/376,

5-11=-1232/410, 6-11=-286/1534,

6-10=-2051/592, 2-14=-493/2683,

8-10=-361/166

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) -0-8-1 to 2-3-15, Interior (1) 2-3-15 to 26-11-8, Exterior(2R) 26-11-8 to 29-11-8. Exterior(2E) 29-11-8 to 31-4-12 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.
- 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.
- Bearing at joint(s) 15 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 298 lb uplift at joint 10.
- 11) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 15. This connection is for uplift only and does not consider lateral forces.
- 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.

LOAD CASE(S) Standard



Page: 1

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

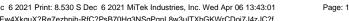
Design Valid to its 90 mly with win New Commencies. This design is based only upon for a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of 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

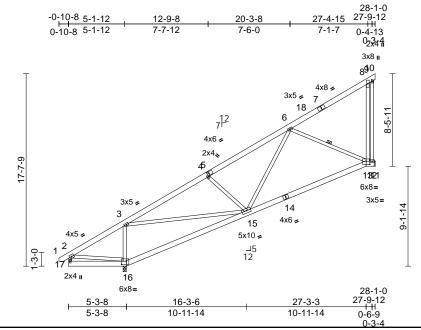
ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	DRB - 97 FARM AT NEILLS CREEK					
22030101	B03	Monopitch	3	1	Job Reference (optional)	I51218100				

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Wed Apr 06 13:43:01 ID:XuVw4mrM?Ew4XkguX?Re7ezhpjh-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:105.5

Plate Offsets (X, Y): [5:0-1-13,0-2-0], [13:0-4-0,0-3-8], [16:0-5-4,0-3-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	-0.12	13-15	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.27	13-15	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.03	12	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 230 lb	FT = 20%

LUMBER

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

WEBS 2x4 SP No.3 *Except* 15-3:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-9-15 oc purlins, except end verticals.

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

bracing.

WEBS 1 Row at midpt 6-13 12=864/ Mechanical,

REACTIONS (lb/size) 16=1420/0-3-8

Max Horiz 16=601 (LC 14) Max Uplift 12=-372 (LC 14)

Max Grav 12=1128 (LC 21), 16=1459 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/25, 2-3=-233/377, 3-4=-1455/237,

4-6=-1120/205, 6-8=-230/83, 8-9=-84/370,

9-10=-15/0, 2-17=-101/71

BOT CHORD 16-17=-23/7. 15-16=-570/258 13-15=-418/879, 12-13=0/0, 11-12=0/0

WEBS 3-16=-1142/292, 3-15=-101/1436,

4-15=-405/253, 6-15=-105/440, 6-13=-880/403, 2-16=-244/297,

8-13=-42/628, 9-12=-769/158

NOTES

Wind: ASCE 7-16; Vult=130mph (3-second gust) 1) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-8-1 to 2-3-15, Interior (1) 2-3-15 to 25-1-0, Exterior(2E) 25-1-0 to 28-1-0 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

- 2) 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.
- 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 372 lb uplift at
- 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



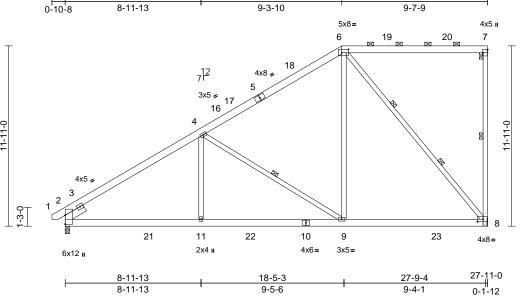
April 7,2022



Job	Truss	Truss Type	Qty	Ply	DRB - 97 FARM AT NEILLS CREEK	
22030101	C01	Piggyback Base	6	1	Job Reference (optional)	I51218101

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Wed Apr 06 13:43:01

ID:fgJGN1CBxSiq8LzfII_gKzzhpjD-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f -0-10-8 8-11-13 18-3-7 27-11-0



Scale = 1:76.1

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

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	0.76	Vert(LL)	-0.12	8-9	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.19	8-9	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.91	Horz(CT)	0.04	8	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0			1							Weight: 222 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SP No.2 *Except* 6-7:2x6 SP 2400F

2.0E

BOT CHORD 2x6 SP No.2

WEBS 2x4 SP No.2 *Except* 11-4:2x4 SP No.3 SLIDER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-10-10 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7.

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

bracing.

WEBS 1 Row at midpt 7-8 4-9

WFBS 2 Rows at 1/3 pts 6-8

REACTIONS (lb/size) 2=1152/0-3-8, 8=1110/ Mechanical

Max Horiz 2=409 (LC 13)

Max Uplift 2=-119 (LC 14), 8=-165 (LC 11)

Max Grav 2=1412 (LC 40), 8=1338 (LC 37)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/20, 2-4=-1856/169, 4-6=-1076/199, 6-7=-162/175, 7-8=-405/132

BOT CHORD 2-11=-329/1676, 9-11=-229/1676,

8-9=-168/855

WEBS 4-11=0/424, 4-9=-987/274, 6-9=-35/987,

6-8=-1276/143

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 Exterior(2E) -0-8-1 to 2-3-15, Interior (1) 2-3-15 to 15-3-7. Exterior(2R) 15-3-7 to 21-3-7. Interior (1) 21-3-7 to 24-9-4, Exterior(2E) 24-9-4 to 27-9-4 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
- 3) Unbalanced snow loads have been considered for this desian.
- 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 165 lb uplift at
- 10) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 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.

Page: 1

LOAD CASE(S) Standard

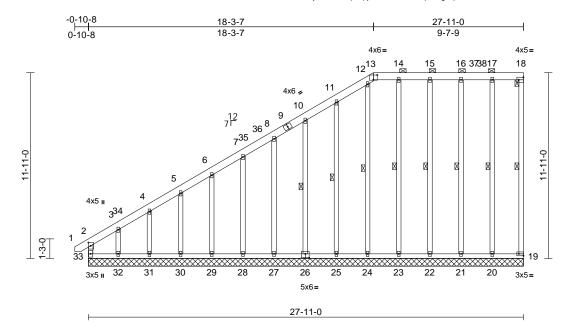




Job	Truss	Truss Type	Qty	Ply	DRB - 97 FARM AT NEILLS CREEK	
22030101	C02	Piggyback Base Supported Gable	1	1	Job Reference (optional)	I51218102

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Wed Apr 06 13:43:01 ID:YRYnCOFh?hCFcyHRX82cVpzhpj9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:73.9

Plate Offsets (X, Y): [2:0-2-8,0-1-12], [13:0-3-0,0-3-12], [18:Edge,0-2-0], [19:Edge,0-1-8], [26:0-3-0,0-3-0]

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	0.76	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	-0.01	19	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 284 lb	FT = 20%

LU	M	В	E	R	

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

WEBS 2x4 SP No.3 *Except* 18-19:2x4 SP No.2

OTHERS 2x4 SP No.3 *Except*

20-17,21-16,22-15,23-14,24-12:2x4 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.): 13-18.

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

bracing. WFBS

18-19, 17-20, 16-21, 1 Row at midpt

15-22, 14-23, 12-24, 11-25, 10-26

REACTIONS (lb/size) 19=62/27-11-0, 20=157/27-11-0,

21=158/27-11-0, 22=155/27-11-0, 23=155/27-11-0 24=155/27-11-0 25=155/27-11-0, 26=155/27-11-0,

27=155/27-11-0, 28=155/27-11-0, 29=155/27-11-0, 30=155/27-11-0,

31=156/27-11-0. 32=147/27-11-0. 33=114/27-11-0

Max Horiz 33=406 (LC 11)

Max Uplift 19=-19 (LC 11), 20=-52 (LC 10), 21=-50 (LC 11), 22=-39 (LC 10), 23=-40 (LC 11), 24=-51 (LC 11),

25=-48 (LC 14), 26=-52 (LC 14), 27=-49 (LC 14), 28=-49 (LC 14), 29=-47 (LC 14), 30=-56 (LC 14),

31=-11 (LC 14), 32=-255 (LC 14),

NOTES 33=-168 (LC 12)

Max Grav 19=86 (LC 35), 20=215 (LC 35), 21=219 (LC 35), 22=218 (LC 35),

23=210 (LC 35), 24=172 (LC 36), 25=217 (LC 36), 26=218 (LC 36), 27=212 (LC 36), 28=176 (LC 40),

29=161 (LC 24), 30=165 (LC 24), 31=156 (LC 36), 32=266 (LC 40),

33=365 (LC 11)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-33=-284/135 1-2=0/24 2-3=-403/256

3-4=-304/195, 4-5=-287/184, 5-6=-259/166, 6-7=-240/149, 7-8=-227/145, 8-10=-213/142, 10-11=-201/139, 11-12=-185/181, 12-13=-157/170, 13-14=-155/180,

14-15=-155/180, 15-16=-155/180, 16-17=-155/180, 17-18=-155/180,

18-19=-138/144

32-33=-150/175, 31-32=-150/175,

30-31=-150/175, 29-30=-150/175, 28-29=-150/175, 27-28=-150/175, 25-27=-150/175, 24-25=-150/175,

23-24=-150/175, 22-23=-150/175, 21-22=-150/175, 20-21=-150/175,

19-20=-150/175

17-20=-174/108, 16-21=-181/53, 15-22=-179/56, 14-23=-171/62,

12-24=-133/75, 11-25=-178/72,

10-26=-179/75, 8-27=-173/72, 7-28=-137/72, 6-29=-123/72, 5-30=-124/74, 4-31=-118/53,

3-32=-184/199

BOT CHORD

WFBS

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) -0-8-1 to 2-3-15, Exterior(2N) 2-3-15 to 15-3-7, Corner(3R) 15-3-7 to 21-3-7, Exterior (2N) 21-3-7 to 24-9-4, Corner(3E) 24-9-4 to 27-9-4 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 design.



Continued on page 2

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

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 - 97 FARM AT NEILLS CREEK	
22030101	C02	Piggyback Base Supported Gable	1	1	Job Reference (optional)	I51218102

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Page: 2

- 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.
- 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.
- 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.

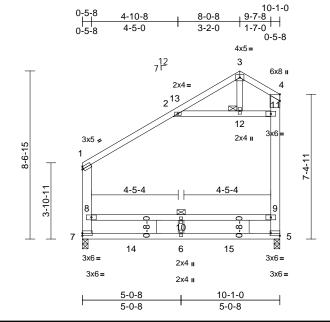
LOAD CASE(S) Standard

818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	DRB - 97 FARM AT NEILLS CREEK	
22030101	D01	Common	6	1	Job Reference (optional)	I51218103

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Wed Apr 06 13:43:02 ID:1yqKDdM?oLU90fiheg7MlNzTRGw-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





Scale = 1:58.8

Plate Offsets (X, Y): [4:0-4-1,Edge], [5:Edge,0-1-8]

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	0.94	Vert(LL)	-0.14	6	>834	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.42	6-7	>274	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 82 lb	FT = 20%

LUMBER

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

WEBS 2x4 SP No.3 *Except* 7-1,5-4:2x6 SP No.2,

8-9:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except end verticals.

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

bracing.

WEBS 1 Row at midpt JOINTS 1 Brace at Jt(s): 12

REACTIONS 5=484/0-3-8, 7=486/0-3-8 (lb/size)

Max Horiz 7=277 (LC 13)

Max Grav 5=521 (LC 23), 7=505 (LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-309/139, 2-3=-262/325, 3-4=-156/141,

7-8=-352/117. 1-8=-320/144. 5-9=-326/123.

9-11=-293/150, 4-11=-214/112

BOT CHORD 6-7=-192/307, 5-6=-192/307

WEBS 8-10=-220/279, 9-10=-220/279, 6-10=0/98,

2-12=-379/311, 11-12=-379/311,

3-12=-131/67

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) 4-9-1 to 7-9-1, Interior (1) 7-9-1 to 9-6-13, Exterior(2R) 9-6-13 to 12-6-13, Exterior (2E) 12-6-13 to 14-4-9 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

- 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.
- 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.
- 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



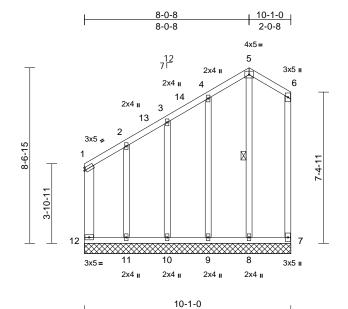
April 7,2022



Job	Truss	Truss Type	Qty	Ply	DRB - 97 FARM AT NEILLS CREEK	
22030101	D02	Common Supported Gable	1	1	Job Reference (optional)	I51218104

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Wed Apr 06 13:43:02 ID:VIh72_YU?rPQNRQxjZpk5ezTRAE-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:56.3

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	0.68	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.55	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.17	Horiz(TL)	0.00	7	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MR								
BCDL	10.0										Weight: 89 lb	FT = 20%

LUMBER

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

2x6 SP No.2 *Except* 6-7:2x4 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 5-8

REACTIONS (lb/size) 7=68/10-1-0, 8=152/10-1-0,

9=161/10-1-0, 10=153/10-1-0, 11=162/10-1-0, 12=58/10-1-0

Max Horiz 12=268 (LC 13)

Max Uplift 7=-57 (LC 15), 9=-60 (LC 11),

10=-33 (LC 10), 11=-521 (LC 11),

12=-349 (LC 12)

Max Grav 7=103 (LC 21), 8=165 (LC 21),

9=208 (LC 20), 10=196 (LC 28), 11=530 (LC 12), 12=495 (LC 11)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-12=-257/176, 1-2=-245/182, 2-3=-129/97,

3-4=-137/155, 4-5=-158/226, 5-6=-176/249,

6-7=-155/217

BOT CHORD 11-12=-108/133, 10-11=-108/133,

9-10=-108/133, 8-9=-108/133, 7-8=-108/133 WEBS 5-8=-199/106, 4-9=-170/118, 3-10=-120/92,

2-11=-263/278

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) 4-9-1 to 7-9-1, Exterior(2N) 7-9-1 to 9-6-13, Corner(3R) 9-6-13 to 12-6-13, Corner (3E) 12-6-13 to 14-5-9 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.
- 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.
- 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.



April 7,2022

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

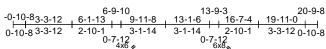
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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

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 - 97 FARM AT NEILLS CREEK	
22030101	G01	Attic	3	1	Job Reference (optional)	I51218105

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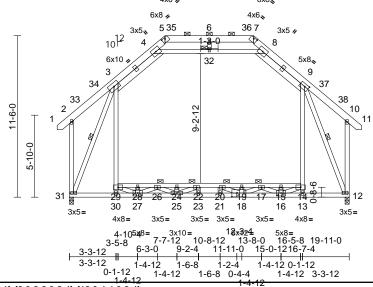


Plate Offsets (X, Y): [5:0-3-0,0-1-1], [7:0-3-0,0-1-1], [9:0-3-8,0-2-4], [18:0-4-4,0-3-4]

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 3-31, 9-12

WFBS 1 Row at midpt **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
- 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.
- 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.

Page: 1

- 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



April 7,2022

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

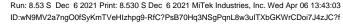
Design Valid to its 90 mly with win New Commencies. This design is based only upon for a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of 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 - 97 FARM AT NEILLS CREEK	
22030101	G02	Attic	7	1	Job Reference (optional)	I51218106

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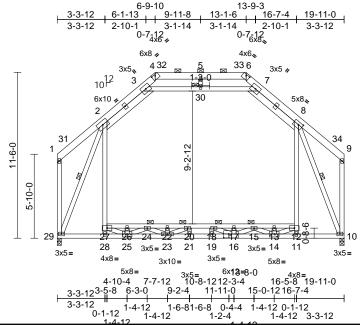


Plate Offsets (X, Y): [4:0-3-0,0-1-1], [6:0-3-0,0-1-1], [8:0-3-8,0-2-4], [16:0-4-4,0-3-4]

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										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

BOT CHORD

(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

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

Page: 1

- 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



April 7,2022

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 Qtv Ply DRB - 97 FARM AT NEILLS CREEK 151218107 22030101 G03 Attic Supported Gable Job Reference (optional)

Carter Components (Sanford), Sanford, NC - 27332

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Wed Apr 06 13:43:04

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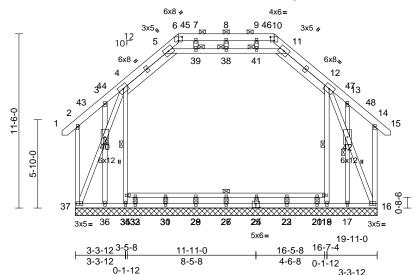


Plate Offsets (X, Y): [6:0-3-0,0-3-0], [10:0-3-0,0-3-0], [25:0-3-0,0-3-0]

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	1	
TCDL	10.0	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.01	16	n/a	n/a	1	
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0	I									Weight: 232 lb	FT = 20%

LUMBER

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. Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD bracing. Except:

10-0-0 oc bracing: 19-34

WFBS 1 Row at midpt 4-35, 12-18 **JOINTS**

1 Brace at Jt(s): 38, 39, 40, 41, 42

16=698/19-11-0, 17=-34/19-11-0, REACTIONS (lb/size) 18=157/19-11-0, 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=65/19-11-0, 35=157/19-11-0. 36=-34/19-11-0.

37=698/19-11-0

Max Horiz 37=-327 (LC 12)

Max Uplift 16=-226 (LC 11), 17=-107 (LC 39), 18=-161 (LC 10), 35=-197 (LC 11),

36=-107 (LC 39), 37=-260 (LC 10) Max Grav 16=789 (LC 23), 17=138 (LC 50),

18=365 (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=394 (LC 48), 36=136 (LC 48), 37=789 (LC 22)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-37=-185/193, 1-2=0/31, 2-3=-137/207,

3-4=-126/270, 4-5=-543/203, 5-6=-886/123, 6-7=-876/112, 7-8=-876/112, 8-9=-876/112, 9-10=-876/112, 10-11=-886/134,

11-12=-543/203, 12-13=-129/270, 13-14=-137/207, 14-15=0/31,

14-16=-187/193

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=-138/264, 21-23=-137/264, 18-21=-137/264, 17-18=-142/276,

16-17=-142/276, 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 37-40=-713/308, 4-40=-750/320, 34-35=-393/223, 4-34=-396/291,

18-19=-364/187, 12-19=-366/255, 12-42=-744/285, 16-42=-702/275, 5-39=-57/619. 38-39=-57/619.

38-41=-57/619, 11-41=-57/619, 8-38=-71/29, 26-27=-117/0, 7-39=-6/63, 28-29=-115/0, 30-31=-120/0, 32-33=-97/0, 3-40=-40/181, 36-40=-43/144, 9-41=-6/63, 24-25=-115/0,

22-23=-120/0, 20-21=-97/0, 13-42=-42/181,

17-42=-45/144

NOTES

WFBS

BOT CHORD

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) -0-8-5 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

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.

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- 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.
- 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. SEAL 036322 minn

April 7,2022

Continued on page 2

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

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 - 97 FARM AT NEILLS CREEK	
22030101	G03	Attic Supported Gable	1	1	Job Reference (optional)	I51218107

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Wed Apr 06 13:43:04

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- 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, 38-41, 11-41; Wall dead load (5.0psf) on member(s).34-35, 4-34, 18-19, 12-19
- 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.

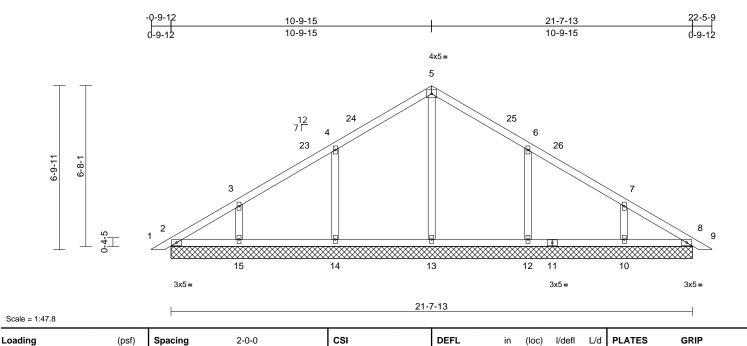
LOAD CASE(S) Standard

818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	DRB - 97 FARM AT NEILLS CREEK	
22030101	PB1	Piggyback	7	1	Job Reference (optional)	I51218108

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LUMBER

TCLL (roof)

Snow (Pf)

TCDL

BCLL

BCDL

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

20.0

20.0

10.0

0.0

10.0

6-0-0 oc purlins.

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

bracing.

REACTIONS (lb/size)

2=135/21-7-13. 8=135/21-7-13. 10=294/21-7-13, 12=341/21-7-13, 13=259/21-7-13, 14=341/21-7-13, 15=294/21-7-13, 16=135/21-7-13, 20=135/21-7-13

Plate Grip DOL

Rep Stress Incr

Lumber DOL

Code

1.15

1 15

YES

IRC2018/TPI2014

Max Horiz 2=-156 (LC 12), 16=-156 (LC 12) Max Uplift 2=-17 (LC 10), 10=-92 (LC 15), 12=-113 (LC 15), 14=-113 (LC 14),

15=-93 (LC 14), 16=-17 (LC 10)

Max Grav 2=158 (LC 25), 8=139 (LC 22), 10=359 (LC 25), 12=486 (LC 6), 13=378 (LC 24), 14=486 (LC 5), 15=359 (LC 24), 16=158 (LC 25). 20=139 (LC 22)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/16. 2-3=-127/115. 3-4=-137/93. 4-5=-149/146, 5-6=-149/129, 6-7=-92/49,

7-8=-81/54, 8-9=0/16

2-15=-44/102, 14-15=-44/102,

13-14=-44/102, 12-13=-44/102, 10-12=-44/102, 8-10=-44/102

WFBS 5-13=-201/0, 4-14=-392/164, 3-15=-226/129,

6-12=-392/164, 7-10=-226/129

BOT CHORD

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 8-8-1, Exterior(2R) 8-8-1 to 14-8-1, Interior (1) 14-8-1 to 20-0-7, Exterior(2E) 20-0-7 to 23-0-7 zone; cantilever left and right exposed; end vertical left and right exposed: C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

0.30

0.17

0.16

Vert(LL)

Vert(CT)

Horz(CT)

n/a

n/a

0.00

TC

BC

WB

Matrix-MSH

- 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.
- 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

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

Weight: 97 lb

MT20

244/190

FT = 20%

LOAD CASE(S) Standard

n/a 999

n/a 999

n/a n/a

8



R802.10.2 and referenced standard ANSI/TPI 1.



Job	Truss	Truss Type	Qty	Ply	DRB - 97 FARM AT NEILLS CREEK	
22030101	PB2	Piggyback	1	1	Job Reference (optional)	I51218109

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Wed Apr 06 13:43:05 ID:ab6ubWRmFzKEEmoggq1bUWzYjdH-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

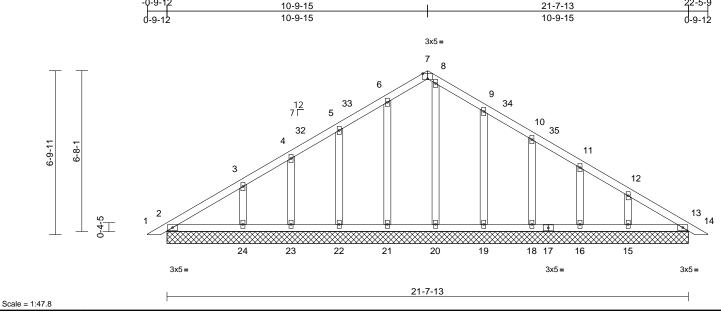


Plate Offsets (X, Y): [7:0-2-8,Edge]

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	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	13	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 119 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=145/21-7-13, 13=125/21-7-13,

15=199/21-7-13, 16=141/21-7-13, 18=158/21-7-13, 19=157/21-7-13, 20=135/21-7-13, 21=150/21-7-13, 22=164/21-7-13, 23=122/21-7-13, 24=244/21-7-13, 25=145/21-7-13,

28=125/21-7-13

Max Horiz 2=-151 (LC 12), 25=-151 (LC 12) Max Uplift 2=-4 (LC 10), 15=-65 (LC 15), 16=-44 (LC 15), 18=-48 (LC 15),

19=-63 (LC 15), 21=-32 (LC 14), 22=-57 (LC 14), 23=-36 (LC 14), 24=-80 (LC 14), 25=-4 (LC 10)

Max Grav 2=149 (LC 21), 13=125 (LC 1) 15=209 (LC 25), 16=147 (LC 25), 18=215 (LC 22), 19=241 (LC 22), 20=167 (LC 22), 21=228 (LC 21), 22=237 (LC 21), 23=135 (LC 21),

24=257 (LC 24), 25=149 (LC 21), 28=125 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD

1-2=0/16, 2-3=-124/107, 3-4=-102/73, 4-5=-85/75, 5-6=-78/105, 6-7=-85/119, 7-8=-68/84, 8-9=-85/113, 9-10=-61/63, 10-11=-55/36, 11-12=-67/35, 12-13=-99/60, 13-14=0/16

BOT CHORD 2-24=-52/118, 23-24=-52/118, 22-23=-52/118, 9) Gable studs spaced at 2-0-0 oc.

21-22=-52/118, 20-21=-52/118, 19-20=-52/118, 18-19=-52/118, 16-18=-52/118. 15-16=-52/118.

13-15=-52/118 WFBS

3-24=-175/96. 4-23=-112/63. 5-22=-194/79. 6-21=-190/55, 8-20=-128/2, 9-19=-203/86,

10-18=-174/70, 11-16=-116/70, 12-15=-144/80

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) 0-3-11 to 3-3-11, Interior (1) 3-3-11 to 8-8-1, Exterior(2R) 8-8-1 to 14-8-1, Interior (1) 14-8-1 to 20-0-0, Exterior(2E) 20-0-0 to 23-0-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip 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.

- 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) 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



April 7,2022

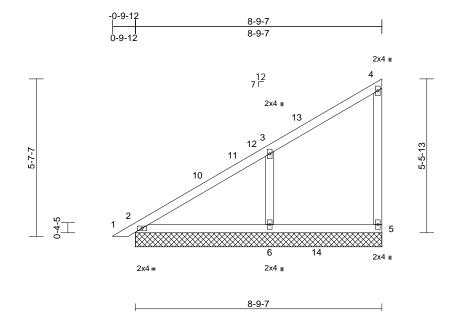
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

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



Job	Truss	Truss Type	Qty	Ply	DRB - 97 FARM AT NEILLS CREEK	
22030101	PB3	Piggyback	6	1	Job Reference (optional)	I51218110

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Wed Apr 06 13:43:06 ID:ZIWwJK3PbFTDqr6yvhj17UzYhcf-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scal	le	=	1	:41	ı.

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	0.42	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDL	10.0			1							Weight: 41 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

REACTIONS (lb/size)

2=186/8-9-7, 5=105/8-9-7, 6=433/8-9-7, 7=186/8-9-7

Max Horiz 2=186 (LC 13), 7=186 (LC 13) Max Uplift 5=-27 (LC 11), 6=-120 (LC 14) Max Grav 2=214 (LC 25), 5=180 (LC 5),

6=570 (LC 5), 7=214 (LC 25)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/16, 2-3=-143/131, 3-4=-127/70,

4-5=-145/45

BOT CHORD 2-6=-83/90. 5-6=-83/90

WEBS 3-6=-438/195

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) 0-3-11 to 3-3-11, Interior (1) 3-3-11 to 5-2-15, Exterior(2R) 5-2-15 to 9-5-13 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
- 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 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) 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



Page: 1

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

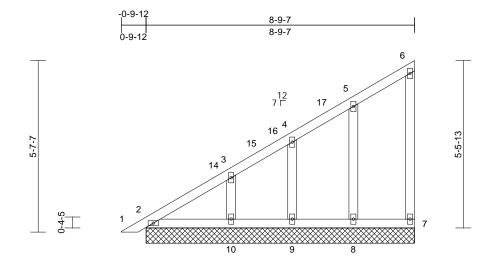
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or 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 - 97 FARM AT NEILLS CREEK	
22030101	PB4	Piggyback	1	1	Job Reference (optional)	I51218111

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Scale = 1:37.7

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	0.41	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	7	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MP								
BCDI	10.0					1					Weight: 48 lh	FT - 20%

8-9-7

ш	М	R	F	R

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)

2=123/8-9-7, 7=56/8-9-7, 8=171/8-9-7, 9=132/8-9-7

10=219/8-9-7, 11=123/8-9-7 Max Horiz 2=181 (LC 13), 11=181 (LC 13)

Max Uplift 2=-5 (LC 10), 7=-24 (LC 11), 8=-27 (LC 14), 9=-41 (LC 14), 10=-72 (LC

14), 11=-5 (LC 10)

Max Grav 2=139 (LC 25), 7=83 (LC 21)

8=252 (LC 21), 9=202 (LC 21), 10=230 (LC 24), 11=139 (LC 25)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/16, 2-3=-146/103, 3-4=-116/74,

4-5=-102/67, 5-6=-94/84, 6-7=-69/33

BOT CHORD 2-10=-80/87, 9-10=-80/87, 8-9=-80/87,

7-8=-80/87

WEBS 5-8=-207/90, 4-9=-174/72, 3-10=-158/87

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 Exterior(2E) 0-3-11 to 3-3-11, Interior (1) 3-3-11 to 5-2-15, Exterior(2R) 5-2-15 to 9-5-13 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.
- 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.
- 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.
- 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



April 7,2022

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

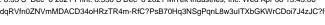
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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



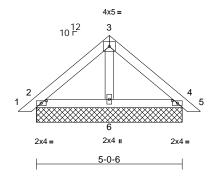
Job	Truss	Truss Type	Qty	Ply	DRB - 97 FARM AT NEILLS CREEK	
22030101	PB5	Piggyback	11	1	Job Reference (optional)	I51218112

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Wed Apr 06 13:43:06 ID:FdqRVfn0ZNVmMDACD34oHRzTR4m-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f









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



April 7,2022

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

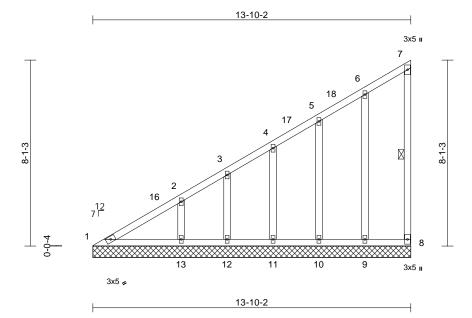
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



[Job	Truss	Truss Type	Qty	Ply	DRB - 97 FARM AT NEILLS CREEK	
2	22030101	V1	Valley	1	1	Job Reference (optional)	I51218113

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Wed Apr 06 13:43:06 ID:obl8CR79AVIhJxhIYr2zsHzhpM4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



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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	0.67	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										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)
- Gable studs spaced at 2-0-0 oc. 7)
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint

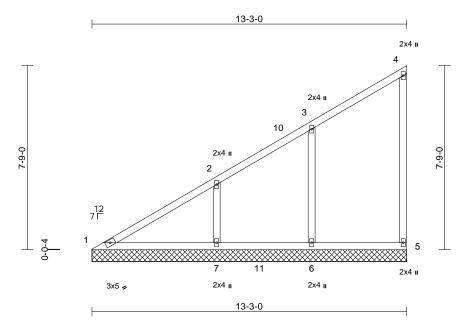


April 7,2022



Job	Truss	Truss Type	Qty	Ply	DRB - 97 FARM AT NEILLS CREEK	
22030101	V2	Valley	1	1	Job Reference (optional)	l51218114

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.29	Vert(TL)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.19	Horiz(TL)	0.01	5	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 63 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=173/13-3-0, 5=133/13-3-0, 6=306/13-3-0, 7=436/13-3-0

Max Horiz 1=266 (LC 11)

Max Uplift 5=-39 (LC 11), 6=-101 (LC 14),

7=-123 (LC 14)

Max Grav 1=221 (LC 28), 5=214 (LC 5),

6=485 (LC 5), 7=533 (LC 23)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-364/164, 2-3=-175/106, 3-4=-142/103,

4-5=-162/47

BOT CHORD 1-7=-110/291, 6-7=-110/123, 5-6=-110/123

WFBS 3-6=-370/141, 2-7=-315/164

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 10-1-11, Exterior(2E) 10-1-11 to 13-1-11 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, with BCDL = 10.0psf.



April 7,2022

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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 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

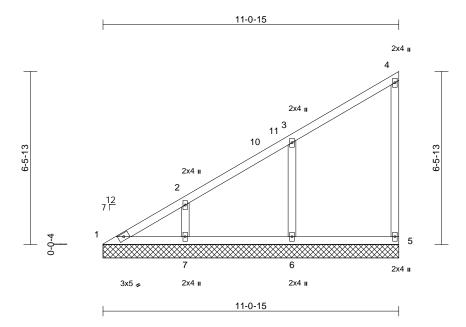
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	DRB - 97 FARM AT NEILLS CREEK	
22030101	V3	Valley	1	1	Job Reference (optional)	I51218115

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Wed Apr 06 13:43:07 ID:dlfQSUCwlL2q1s9Sv59O5YzhpM_-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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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										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 bracing.

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

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

NOTES

BOT 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) 0-0-7 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 11 lb uplift at joint



April 7,2022

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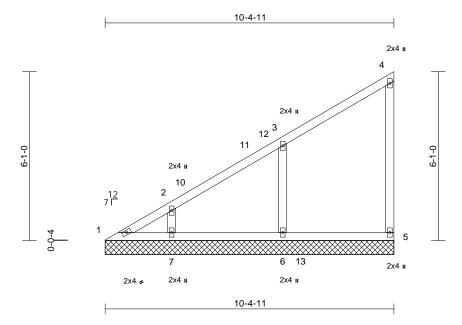
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	DRB - 97 FARM AT NEILLS CREEK		
22030101	V4	Valley	1	1	Job Reference (optional)	I51218116	

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Page: 1



Scale = 1:41.5

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	0.35	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	0.11	Horiz(TL)	0.00	5	n/a	n/a		
BCLL	0.0*	Code	IRC2018/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 47 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=64/10-4-11, 5=125/10-4-11, 6=352/10-4-11, 7=279/10-4-11

Max Horiz 1=207 (LC 11)

Max Uplift 1=-18 (LC 10), 5=-31 (LC 11), 6=-72 (LC 14), 7=-78 (LC 14)

Max Grav 1=105 (LC 24), 5=208 (LC 5),

6=497 (LC 5), 7=328 (LC 23)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-176/123, 2-3=-147/109, 3-4=-130/76,

4-5=-157/44

BOT CHORD 1-7=-87/97 6-7=-87/97 5-6=-87/97 WFBS 3-6=-395/148. 2-7=-214/130

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 6-0-8, Exterior(2R) 6-0-8 to 10-3-6 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 18 lb uplift at joint

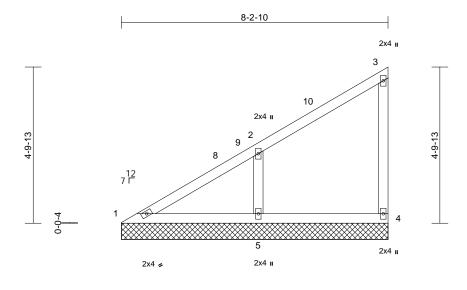


April 7,2022



Job	Truss	Truss Type	Qty	Ply	DRB - 97 FARM AT NEILLS CREEK		
22030101	V5	Valley	1	1	Job Reference (optional)	l51218117	

Run: 8.53 S Dec 6 2021 Print: 8.530 S Dec 6 2021 MiTek Industries, Inc. Wed Apr 06 13:43:07 ID:VWvwlsFRpZYGWTSD8xEKGOzhpLw-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Sca	le =	1:3	35.5

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	0.34	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%

8-2-10

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.

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.



April 7,2022

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

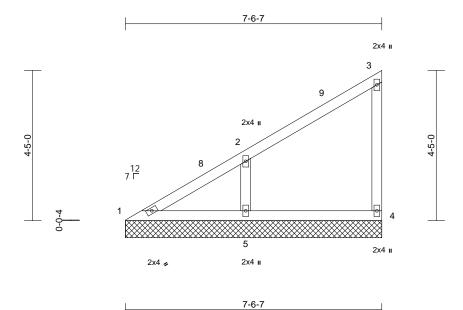
available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	DRB - 97 FARM AT NEILLS CREEK	
22030101	V6	Valley	1	1	Job Reference (optional)	l51218118

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Page: 1



Scale = 1:33.9

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	0.13	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: 31 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.

REACTIONS (lb/size)

1=103/7-6-7, 4=119/7-6-7,

5=369/7-6-7

Max Horiz 1=147 (LC 11)

Max Uplift 4=-24 (LC 11), 5=-102 (LC 14)

Max Grav 1=117 (LC 24), 4=181 (LC 20),

5=502 (LC 20)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-176/106, 2-3=-114/58, 3-4=-153/43

BOT CHORD 1-5=-67/136, 4-5=-67/73

WFBS 2-5=-403/187

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

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



April 7,2022

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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



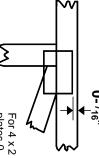
818 Soundside Road Edenton, NC 27932

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

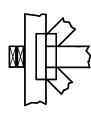
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

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



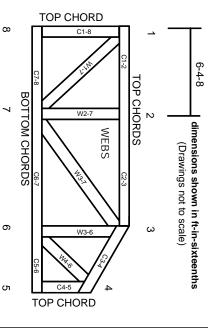
Min size shown is for crushing only number where bearings occur. reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

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
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.

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- 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.