



MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017 314-434-1200

Re: B220019 Lot 111 RR

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Wheeler - Waverly.

Pages or sheets covered by this seal: I49889810 thru I49889890

My license renewal date for the state of Missouri is December 31, 2023.

Missouri COA: Engineering 001193



January 27,2022

Sevier, Scott

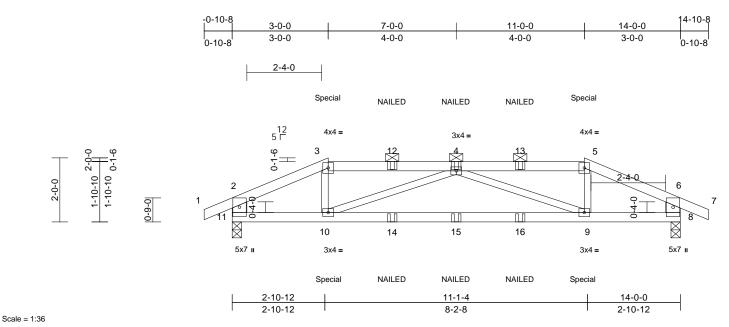
,Engineer

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	Lot 111 RR	
B220019	A3	Hip Girder	1	1	Job Reference (optional)	149889810

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Jan 25 16:22:52 ID:94jkrrHqc3l50wMLL9rDh1yjci5-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	-0.16	9-10	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.36	9-10	>452	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.29	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.10	9-10	>999	240	Weight: 46 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 11-2,8-6:2x6 SP DSS WEBS

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or 4-2-0 oc purlins, except end verticals, and

2-0-0 oc purlins (5-10-9 max.): 3-5. Rigid ceiling directly applied or 8-11-14 oc

bracing.

REACTIONS (lb/size) 8=743/0-3-8, 11=743/0-3-8 Max Horiz 11=17 (LC 7)

Max Uplift 8=-199 (LC 5), 11=-199 (LC 4)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/30, 2-3=-1064/250, 3-4=-892/235, TOP CHORD

4-5=-892/236, 5-6=-1064/250, 6-7=0/30, 2-11=-674/167, 6-8=-674/167

BOT CHORD 10-11=-191/908, 9-10=-421/1414,

8-9=-186/908

WEBS 3-10=0/354, 5-9=0/354, 4-9=-576/251,

4-10=-576/251

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 199 lb uplift at joint 11 and 199 lb uplift at joint 8.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or hottom chord
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 89 lb down and 138 lb up at 3-0-0, and 89 lb down and 138 lb up at 11-0-0 on top chord, and 30 lb down at 3-0-0, and 30 lb down at 10-11-4 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-2=-70, 2-3=-70, 3-5=-70, 5-6=-70, 6-7=-70, 8-11=-20

Concentrated Loads (lb)

Vert: 3=-13 (F), 5=-13 (F), 10=-10 (F), 9=-10 (F), 4=-13 (F), 12=-13 (F), 13=-13 (F), 14=-10 (F), 15=-10 (F), 16=-10 (F)



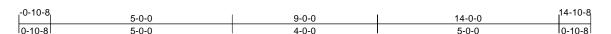
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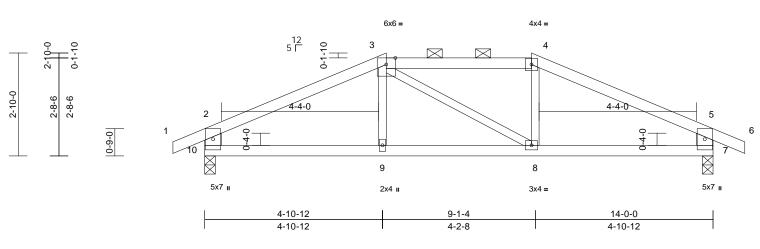




Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	A4	Hip	1	1	Job Reference (optional)	149889811

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Jan 25 16:22:54 $ID:wdCmWaOrjWly_9zupq_60jyjchz-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff$





Scale = 1:31.7

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	-0.06	8-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.12	8-9	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.04	8-9	>999	240	Weight: 44 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 10-2,7-5:2x6 SPF WEBS

No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-3-6 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.

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

7=687/0-3-8, 10=687/0-3-8 REACTIONS (lb/size)

Max Horiz 10=-24 (LC 13)

Max Uplift 7=-92 (LC 5), 10=-92 (LC 4) (lb) - Maximum Compression/Maximum

FORCES

Tension

1-2=0/30, 2-3=-897/106, 3-4=-750/116, 4-5=-898/105, 5-6=0/30, 2-10=-610/119,

5-7=-610/119

9-10=-45/753, 8-9=-47/750, 7-8=-46/753

BOT CHORD WEBS 3-9=0/159, 3-8=-98/98, 4-8=0/159

NOTES

TOP CHORD

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 92 lb uplift at joint 10 and 92 lb uplift at joint 7.

- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



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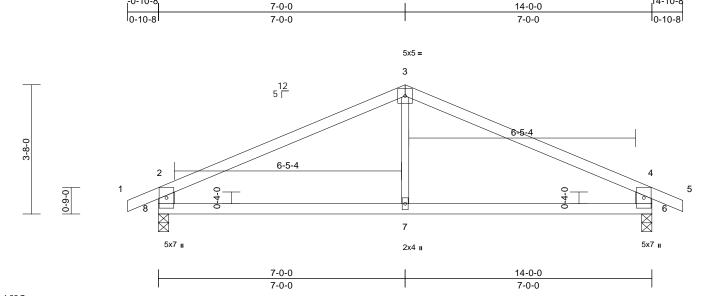
Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	A5	Common	4	1	Job Reference (optional)	149889812

-0-10-8

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Page: 1

14-10-8



Scale = 1:32.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	-0.05	6-7	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.10	6-7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.02	7-8	>999	240	Weight: 39 lb	FT = 10%

LUMBER

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

2x6 SPF No.2 *Except* 7-3:2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-8-5 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (lb/size) 6=687/0-3-8, 8=687/0-3-8

Max Horiz 8=-39 (LC 9)

Max Uplift 6=-103 (LC 9), 8=-103 (LC 8)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/30, 2-3=-819/104, 3-4=-819/104,

4-5=0/30, 2-8=-622/150, 4-6=-622/150

BOT CHORD 7-8=-31/660, 6-7=-31/660

WEBS 3-7=0/284

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.

 * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 103 lb uplift at joint 8 and 103 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

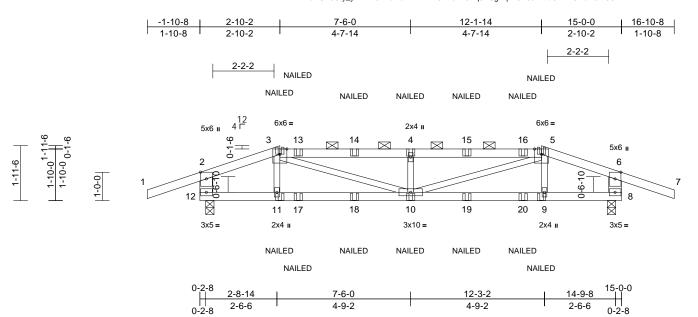




Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	B1	Hip Girder	1	1	Job Reference (optional)	149889813

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Page: 1



Scale = 1:41

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	-0.12	9-10	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.22	9-10	>784	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.34	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.11	10-11	>999	240	Weight: 52 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF 2100F 1.8E *Except* 3-5:2x4 SPF

No.2

BOT CHORD 2x4 SPF No.2

2x3 SPF No.2 *Except* 12-2,8-6:2x6 SPF WEBS

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 (4-0-8 max.): 3-5. Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD bracing.

REACTIONS (lb/size) 8=834/0-3-8, 12=834/0-3-8

Max Horiz 12=-15 (LC 19)

Max Uplift 8=-242 (LC 5), 12=-242 (LC 4)

FORCES (lb) - Maximum Compression/Maximum Tension

1-2=0/47, 2-3=-882/185, 3-4=-1712/393,

4-5=-1712/393, 5-6=-882/185, 6-7=0/47,

2-12=-675/218, 6-8=-675/218

11-12=-118/759, 10-11=-124/765,

9-10=-127/765, 8-9=-122/759 WEBS

3-11=-91/90, 3-10=-238/999, 4-10=-469/209, 5-10=-238/999, 5-9=-91/90

NOTES

TOP CHORD

BOT CHORD

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 242 lb uplift at joint 12 and 242 lb uplift at joint 8.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- "NAILED" indicates 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-2=-70, 2-3=-70, 3-5=-70, 5-6=-70, 6-7=-70,

8-12=-20

Concentrated Loads (lb)

Vert: 11=8 (F), 10=-8 (F), 4=-8 (F), 9=8 (F), 13=-8

(F), 14=-8 (F), 15=-8 (F), 16=-8 (F), 17=-8 (F), 18=-8

(F), 19=-8 (F), 20=-8 (F)

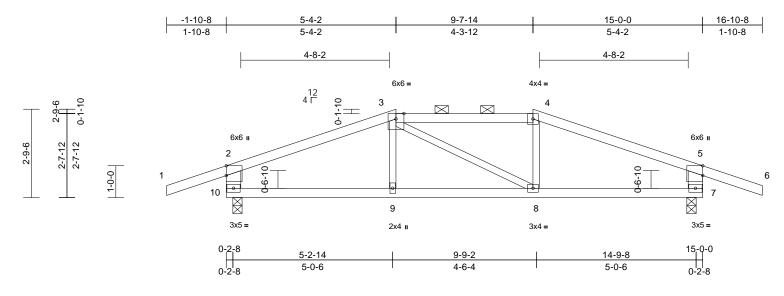


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Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	B2	Hip	1	1	Job Reference (optional)	149889814

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Scale = 1:36.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.94	Vert(LL)	-0.18	8-9	>991	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.32	8-9	>540	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.12	8-9	>999	240	Weight: 49 lb	FT = 10%

LUMBER

WEBS

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

2x3 SPF No.2 *Except* 10-2,7-5:2x6 SPF

BRACING

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

2-0-0 oc purlins (5-8-5 max.): 3-4.

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

bracing.

REACTIONS (lb/size) 7=802/0-3-8, 10=802/0-3-8

Max Horiz 10=-17 (LC 19)

Max Uplift 7=-202 (LC 5), 10=-202 (LC 4)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD 1-2=0/47, 2-3=-930/139, 3-4=-802/153,

4-5=-930/139, 5-6=0/47, 2-10=-690/222,

5-7=-690/222

BOT CHORD 9-10=-73/803, 8-9=-76/802, 7-8=-58/803 WFBS 3-9=0/153, 3-8=-87/87, 4-8=-5/153

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 202 lb uplift at joint 10 and 202 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

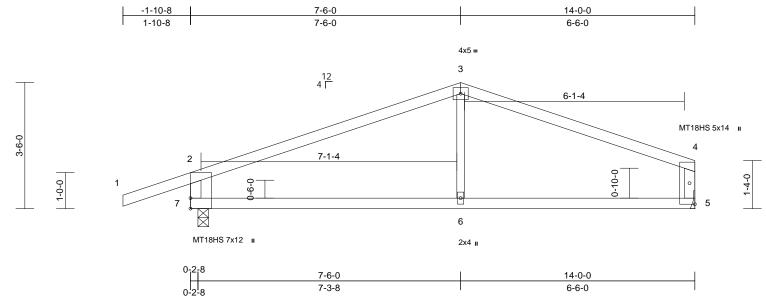
LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	B3	Common	1	1	Job Reference (optional)	149889815

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Scale = 1:32

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	-0.17	6-7	>972	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.35	6-7	>474	240	MT18HS	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.10	6-7	>999	240	Weight: 39 lb	FT = 10%

LUMBER

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

2x4 SPF 2100F 1.8E *Except* 6-3:2x3 SPF WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-2-7 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 5=606/ Mechanical, 7=769/0-3-8

Max Horiz 7=42 (LC 8)

Max Uplift 5=-86 (LC 5), 7=-183 (LC 4) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/45, 2-3=-767/107, 3-4=-754/108,

4-5=-483/118, 2-7=-666/226

BOT CHORD 6-7=-53/633, 5-6=-53/633

WEBS 3-6=0/230

NOTES

FORCES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated. This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle
- 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections. Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 183 lb uplift at joint 7 and 86 lb uplift at joint 5.

8) 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

OF MISS SCOTT M. SEVIER PE-2001018807 SSIONAL

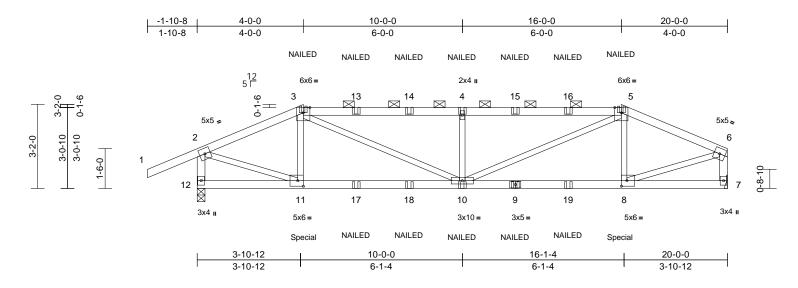
January 27,2022





ĺ	Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
	B220019	C1	Hip Girder	1	1	Job Reference (optional)	149889816

Run: 8.43 S. Oct 11.2021 Print: 8.430 S. Oct 11.2021 MiTek Industries. Inc. Tue Jan 25.16:22:55 ID:nUWW5iRJ?OVHV2Yb?J1ATpz1kuu-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:43.5

Plate Offsets (X, Y): [8	:0-2-8,0-2-8], [11:0-2-8,0-2-8]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	-0.11	10	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.22	8-10	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.64	Horz(CT)	0.04	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.10	10	>999	240	Weight: 74 lb	FT = 10%

LUMBER

2x4 SPF No.2 *Except* 3-5:2x4 SPF 2100F TOP CHORD

1.8E

BOT CHORD 2x4 SPF No.2

WEBS 2x3 SPF No.2 *Except* 12-2,7-6:2x4 SPF

No.2

BRACING TOP CHORD

Structural wood sheathing directly applied or

4-0-2 oc purlins, except end verticals, and 2-0-0 oc purlins (3-11-13 max.): 3-5.

BOT CHORD Rigid ceiling directly applied or 8-10-12 oc bracing.

REACTIONS (lb/size) 7=1452/ Mechanical

12=1608/0-3-8

Max Horiz 12=62 (LC 7)

Max Uplift 7=-321 (LC 5), 12=-385 (LC 4) **FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD

1-2=0/54, 2-3=-1952/469, 3-4=-2911/727,

4-5=-2911/727, 5-6=-1981/467, 2-12=-1583/395, 6-7=-1425/330

11-12=-50/31, 10-11=-431/1770, **BOT CHORD**

8-10=-430/1804, 7-8=-31/62 **WEBS**

3-11=-249/159, 3-10=-307/1284 4-10=-808/390, 5-10=-301/1261,

5-8=-244/163, 2-11=-412/1849,

6-8=-421/1828

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 385 lb uplift at joint 12 and 321 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord
- 10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 201 lb down and 55 lb up at 4-0-0, and 201 lb down and 55 lb up at 15-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15,

Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-2=-70, 2-3=-70, 3-5=-70, 5-6=-70, 7-12=-20

Concentrated Loads (lb)

Vert: 3=-80 (F), 5=-80 (F), 9=-38 (F), 11=-197 (F), 10=-38 (F), 4=-80 (F), 8=-197 (F), 13=-80 (F),

14=-80 (F), 15=-80 (F), 16=-80 (F), 17=-38 (F), 18=-38 (F), 19=-38 (F)



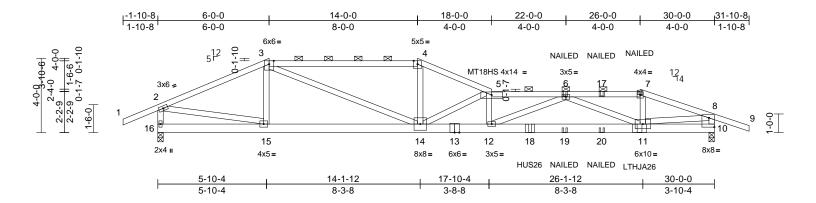
January 27,2022





Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	C2	Roof Special Girder	1	2	Job Reference (optional)	149889817

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Jan 25 16:22:56 ID:krRzmKjsVTJTg5VwZVwVdgz1krx-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:62.1

Plate Offsets	(X,	Y):	[10:Edge,0-6-0]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	-0.32	11-12	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.58	11-12	>617	240	MT18HS	197/144
BCLL	0.0*	Rep Stress Incr	NO	WB	0.56	Horz(CT)	0.06	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.26	11-12	>999	240	Weight: 281 lb	FT = 10%

2x4 SPF No.2 *Except* 3-4,5-7:2x4 SPF TOP CHORD

2100F 1.8E

2x6 SPF No.2 *Except* 13-10:2x6 SPF BOT CHORD 1650F 1 4F

WEBS 2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-3-6 oc purlins, except end verticals, and 2-0-0 oc purlins (5-2-5 max.): 3-4, 5-7.

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

bracing.

REACTIONS (lb/size) 10=2623/0-3-8. 16=1923/0-3-8

> Max Horiz 16=-39 (LC 9)

Max Uplift 10=-581 (LC 5), 16=-303 (LC 4) (lb) - Maximum Compression/Maximum

FORCES

Tension TOP CHORD

1-2=0/54, 2-3=-2805/472, 3-4=-4536/862, 4-5=-4995/916, 5-6=-9472/1776,

6-7=-4734/914, 7-8=-5127/958, 8-9=0/45,

2-16=-1871/327, 8-10=-2680/594

BOT CHORD 15-16=-74/143, 14-15=-341/2538,

12-14=-1708/9503, 11-12=-1534/7822,

10-11=-67/323

WFRS 3-15=-322/163, 3-14=-441/2252,

4-14=-180/1429, 5-14=-5469/1083, 5-12=-210/575, 7-11=-152/1288,

2-15=-349/2439, 8-11=-841/4579,

6-12=-183/1802, 6-11=-3382/760

NOTES

2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.

Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 303 lb uplift at ioint 16 and 581 lb uplift at joint 10.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent at 20-0-12 from the left end to connect truss(es) to front face of bottom chord.
- 13) Use Simpson Strong-Tie LTHJA26 (LTHJA26 on 2 ply, Right Hand Hip) or equivalent at 25-11-10 from the left end to connect truss(es) to front face of bottom chord.
- 14) Fill all nail holes where hanger is in contact with lumber.
- 15) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-5=-70, 5-7=-70,

Page: 1

7-8=-70, 8-9=-70, 10-16=-20 Concentrated Loads (lb)

Vert: 7=-80 (F), 11=-197 (F), 6=-80 (F), 17=-80 (F),

18=-1077 (F), 19=-38 (F), 20=-38 (F)

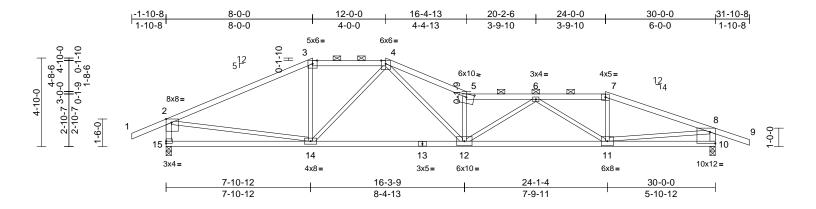


January 27,2022



Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	C3	Roof Special	1	1	Job Reference (optional)	149889818

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Jan 25 16:22:56 ID:_Cex3H3UMZIjV8UGZJPWd4z1kqC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:62.9

Plate Offsets (X, Y): [2:0-3-8,Edge], [5:0-5-0,0-2-3], [10:Edge,0-7-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.94	Vert(LL)	-0.29	11-12	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.54	11-12	>658	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.08	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.21	11-12	>999	240	Weight: 111 lb	FT = 10%

LUMBER

WEBS

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

2x3 SPF No.2 *Except* 15-2,10-8:2x4 SPF

BRACING TOP CHORD

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

(2-8-10 max.): 3-4, 5-7.

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

bracing, Except:

2-2-0 oc bracing: 11-12.

REACTIONS (lb/size) 10=1478/0-3-8, 15=1478/0-3-8

Max Horiz 15=-51 (LC 9)

Max Uplift 10=-298 (LC 5), 15=-152 (LC 4) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=0/54, 2-3=-2009/250, 3-4=-1743/256,

4-5=-4004/574, 5-6=-3727/506,

6-7=-2344/370, 7-8=-2558/365, 8-9=0/45,

2-15=-1406/192, 8-10=-1418/323

BOT CHORD 14-15=-131/284, 12-14=-185/2098, 11-12=-435/3322, 10-11=-78/313

WEBS 3-14=-5/413, 5-12=-1726/320, 7-11=0/510,

2-14=-91/1485, 8-11=-236/2066, 4-14=-626/161, 4-12=-340/2248, 6-12=-8/482, 6-11=-1175/198

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 152 lb uplift at joint 15 and 298 lb uplift at joint 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.
- 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



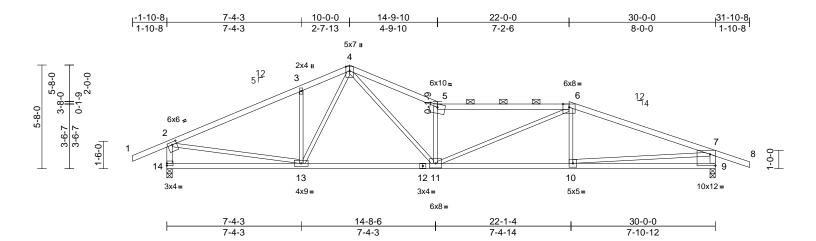
January 27,2022





Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	C4	Roof Special	1	1	Job Reference (optional)	149889819

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Jan 25 16:22:57 ID:jlPHZaQk__PqxM2n7qQnAhz1koS-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:63

Plate Offsets (X, Y): [2:0-3-0,0-1-12], [5:0-5-0,0-2-3], [9:Edge,0-7-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.22	10-11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.70	Vert(CT)	-0.42	10-11	>850	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.06	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.16	10-11	>999	240	Weight: 114 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 *Except* 5-6,6-8:2x4 SPF

2100F 1.8E 2x4 SPF No.2

BOT CHORD **WEBS** 2x3 SPF No.2 *Except* 14-2,9-7:2x4 SPF

No.2

BRACING TOP CHORD

Structural wood sheathing directly applied or

2-8-9 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 5-6

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

bracing.

REACTIONS (lb/size) 9=1478/0-3-8, 14=1478/0-3-8

Max Horiz 14=-67 (LC 13)

Max Uplift 9=-290 (LC 5), 14=-172 (LC 8)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=0/54, 2-3=-1996/239, 3-4=-1947/282,

4-5=-3305/541, 5-6=-3025/455,

6-7=-2591/392, 7-8=0/45, 2-14=-1409/210,

7-9=-1400/330

BOT CHORD 13-14=-107/211, 11-13=-81/1617, 10-11=-294/2374, 9-10=-145/544

WEBS 5-11=-1702/384, 6-11=-80/715,

6-10=-23/196, 7-10=-146/1838, 4-11=-371/2055, 4-13=-135/423

3-13=-402/216, 2-13=-122/1561

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 172 lb uplift at joint 14 and 290 lb uplift at joint 9.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord

LOAD CASE(S) Standard



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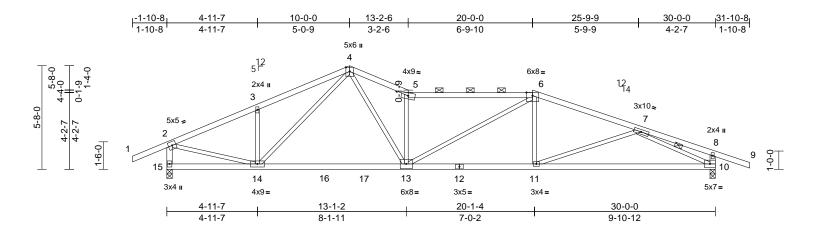
January 27,2022



Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	C5	Roof Special	1	1	Job Reference (optional)	149889820

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries. Inc. Tue Jan 25 16:22:57 ID:0Sz2t1XSJF?nzV4TW93Mu5z1kn0-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:63

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.25	13-14	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.45	10-11	>788	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.07	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.12	11-13	>999	240	Weight: 115 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 *Except* 5-6:2x4 SPF 2100F

1.8E

BOT CHORD 2x4 SPF No.2 *Except* 12-10:2x4 SPF

2100F 1.8E

2x3 SPF No.2 *Except* 15-2,10-8:2x4 SPF WEBS

No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-7-11 oc purlins, except end verticals, and

2-0-0 oc purlins (3-10-7 max.): 5-6.

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

bracing.

WEBS 1 Row at midpt 7-10

REACTIONS (lb/size) 10=1478/0-3-8, 15=1478/0-3-8

Max Horiz 15=-67 (LC 9)

Max Uplift 10=-297 (LC 5), 15=-172 (LC 8) Max Grav 10=1501 (LC 2), 15=1512 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/54, 2-3=-1984/199, 3-4=-1985/257,

4-5=-2842/446, 5-6=-2608/378,

6-7=-2540/377, 7-8=-336/0, 8-9=0/45,

2-15=-1458/189, 8-10=-347/118

BOT CHORD 14-15=-56/99 13-14=-83/1686 11-13=-245/2363, 10-11=-367/2175

WFBS 4-13=-284/1771, 5-13=-1409/324,

6-13=-75/287, 6-11=0/289, 7-11=0/241, 2-14=-119/1790, 7-10=-2219/500,

3-14=-357/192, 4-14=-115/271

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 172 lb uplift at joint 15 and 297 lb uplift at joint 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.
- 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



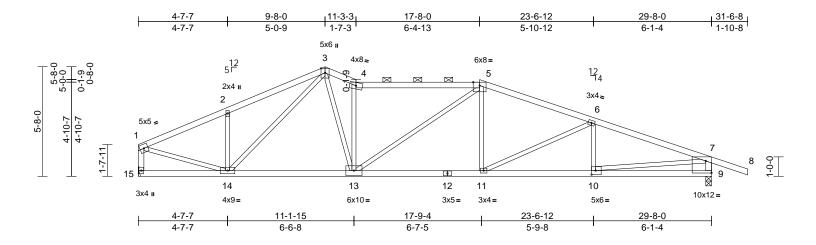
January 27,2022





Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	C6	Roof Special	1	1	Job Reference (optional)	149889821

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Jan 25 16:22:57 ID:VS6jnp933DYOCU3SZ4?Z?3z1kmC-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:59.6

Plate Offsets (X, Y): [9:Edge,0-7-8], [10:0-2-8,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.93	Vert(LL)	-0.14	10-11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.28	11-13	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.06	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.11	10-11	>999	240	Weight: 115 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 15-1,9-7:2x4 SPF WEBS

BRACING TOP CHORD

Structural wood sheathing directly applied or

3-2-12 oc purlins, except end verticals, and

2-0-0 oc purlins (2-2-0 max.): 4-5.

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

bracing.

9=1468/0-3-8, 15=1317/ REACTIONS (lb/size)

Mechanical

Max Horiz 15=-82 (LC 9) Max Uplift 9=-302 (LC 5), 15=-128 (LC 5)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-1773/209, 2-3=-1793/273,

3-4=-2186/372, 4-5=-1992/324,

5-6=-2216/372, 6-7=-2519/402, 7-8=0/45,

1-15=-1274/147, 7-9=-1397/332

BOT CHORD 14-15=-33/114, 13-14=-72/1590, 11-13=-207/2041, 10-11=-317/2322,

9-10=-49/284

2-14=-369/196, 3-14=-197/196, WEBS

3-13=-251/1397, 4-13=-1175/280, 5-13=-192/106, 5-11=0/336, 6-11=-339/122,

6-10=-159/115, 1-14=-144/1591,

7-10=-297/2054

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 128 lb uplift at joint 15 and 302 lb uplift at joint 9.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



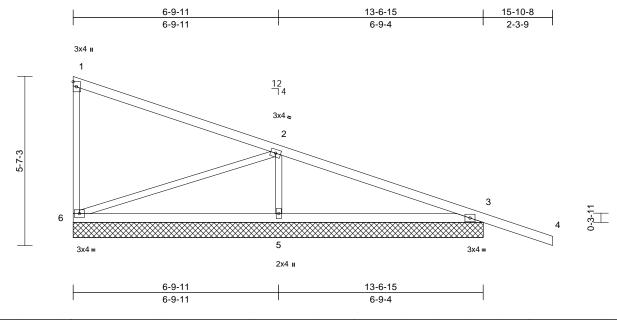
January 27,2022





Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	C7	Roof Special	1	1	Job Reference (optional)	149889822

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Jan 25 16:22:58 ID:9aQX0MwaEaUSGANZlpdK3Lz1kID-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:38.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 45 lb	FT = 10%

LUMBER

LOAD CASE(S) Standard

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2 WEBS

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) 3=441/13-6-15, 5=684/13-6-15,

6=249/13-6-15 Max Horiz 6=-217 (LC 6)

Max Uplift 3=-167 (LC 5), 5=-92 (LC 9), 6=-79

(LC 5)

FORCES (lb) - Maximum Compression/Maximum

Tension

 $1\hbox{-}6\hbox{--}186/79,\ 1\hbox{-}2\hbox{--}145/29,\ 2\hbox{-}3\hbox{--}111/41,$ TOP CHORD

3-4=0/50

BOT CHORD 5-6=0/75, 3-5=0/75 **WEBS** 2-6=-27/117, 2-5=-521/182

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 79 lb uplift at joint 6, 167 lb uplift at joint 3 and 92 lb uplift at joint 5.
- 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.

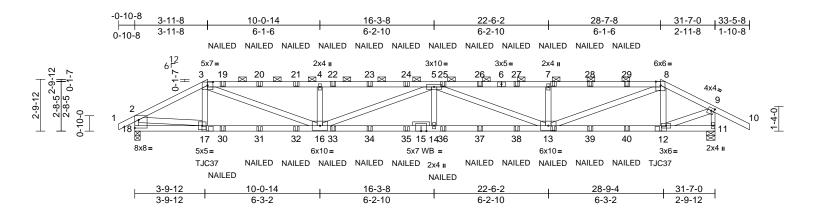




Job		Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	9	D1	Hip Girder	1	2	Job Reference (optional)	149889823

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Jan 25 16:22:59 ID:qT5_qmX7sIDqJERIU9Exmxz1jqL-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:62.7

Plate Offsets (X, Y):	[3:0-3-8,0-2-3],	[8:0-3-2, Edge], [9	9:0-1-12,0-1-12],	[18:Edge,0-5-5]
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Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.91	Vert(LL)	-0.30	14	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.55	14-16	>687	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.52	Horz(CT)	0.08	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.27	14	>999	240	Weight: 253 lb	FT = 10%

LUMBER

2x4 SPF No.2 *Except* 3-6:2x4 SPF 2100F TOP CHORD

1.8E

BOT CHORD 2x4 SPF 2100F 1.8F

WEBS 2x4 SPF No.2 *Except* 11-9,18-2:2x3 SPF

No.2

OTHERS 2x3 SPF No.2

BRACING

FORCES

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (3-10-14 max.): 3-8.

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

bracing, Except:

6-0-0 oc bracing: 11-12.

REACTIONS (lb/size) 11=2293/0-5-8, 18=2384/0-3-8

Max Horiz 18=64 (LC 7)

Max Uplift 11=-509 (LC 4), 18=-454 (LC 5)

(lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/31, 2-3=-3842/783, 3-4=-6848/1474,

4-5=-6845/1472, 5-7=-6299/1400,

7-8=-6302/1402, 8-9=-2644/643, 9-10=0/62,

9-11=-2302/508, 2-18=-2349/459

17-18=-87/259, 16-17=-705/3408,

14-16=-1649/7749, 13-14=-1649/7749,

12-13=-543/2392, 11-12=-26/20

WEBS 3-17=-110/125, 3-16=-827/3739,

4-16=-799/361, 5-16=-996/235, 5-14=0/419,

5-13=-1564/309, 7-13=-785/356, 8-13=-881/4219, 8-12=-765/184,

9-12=-579/2550, 2-17=-636/3186

NOTES

2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x3 - 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.

Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 454 lb uplift at joint 18 and 509 lb uplift at joint 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.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Use Simpson Strong-Tie TJC37 (4 nail, 30-90) or equivalent at 3-11-8 from the left end to connect truss (es) to front face of bottom chord, skewed 33.7 deg.to the left, sloping 0.0 deg. down.

- 12) Use Simpson Strong-Tie TJC37 (4 nail 90-150) or equivalent at 28-7-8 from the left end to connect truss (es) to front face of bottom chord, skewed 33.7 deg.to the right, sloping 0.0 deg. down.
- 13) Fill all nail holes where hanger is in contact with lumber.
- 14) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-2=-70, 2-3=-70, 3-8=-70, 8-9=-70, 9-10=-70, 11-18=-20

Concentrated Loads (lb)

Vert: 17=-224 (F), 7=-83 (F), 13=-35 (F), 12=-7 (F), 19=-83 (F), 20=-83 (F), 21=-83 (F), 22=-83 (F), 23=-83 (F), 24=-83 (F), 25=-83 (F), 26=-83 (F), 27=-83 (F), 28=-83 (F), 29=-83 (F), 30=-35 (F), 31=-35 (F), 32=-35 (F), 33=-35 (F), 34=-35 (F), 35=-35 (F), 36=-35 (F), 37=-35 (F), 38=-35 (F), 39=-35 (F), 40=-35 (F)



January 27,2022

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



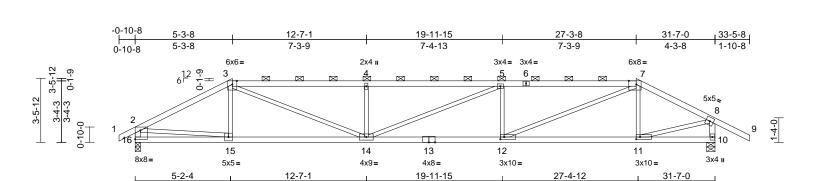
16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	D2	Hip	1	1	Job Reference (optional)	149889824

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7-4-13

4-2-4



7-4-13

Scale = 1:62.7

Plate Offsets (X, Y): [7:0-4-13,Edge], [11:0-2-8,0-1-8], [12:0-2-8,0-1-8], [16:Edge,0-5-13]

5-2-4

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	-0.27	12-14	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.52	12-14	>722	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.09	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.21	12-14	>999	240	Weight: 114 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 *Except* 3-6,6-7:2x4 SPF

2100F 1.8E 2x4 SPF No.2

BOT CHORD **WEBS** 2x3 SPF No.2 *Except* 10-8,16-2:2x4 SPF

No.2

BRACING TOP CHORD

Structural wood sheathing directly applied or

3-6-6 oc purlins, except end verticals, and 2-0-0 oc purlins (3-1-13 max.): 3-7.

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

bracing, Except: 2-2-0 oc bracing: 12-14.

REACTIONS (lb/size) 10=1553/0-5-8, 16=1476/0-3-8

Max Horiz 16=73 (LC 7)

Max Uplift 10=-202 (LC 4), 16=-185 (LC 5)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD

1-2=0/32, 2-3=-2292/340, 3-4=-3559/624,

4-5=-3557/622, 5-7=-3444/607,

7-8=-1882/295, 8-9=0/63, 8-10=-1524/215,

2-16=-1427/206

BOT CHORD 15-16=-128/371, 14-15=-297/1984,

12-14=-564/3444, 11-12=-208/1644,

10-11=-8/30

WEBS 3-15=-67/127, 3-14=-361/1772,

4-14=-573/231, 5-14=-31/148, 5-12=-633/244, 7-12=-386/1988,

7-11=-313/137, 8-11=-234/1677, 2-15=-241/1622

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 185 lb uplift at joint 16 and 202 lb uplift at joint 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.
- 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

7-4-13



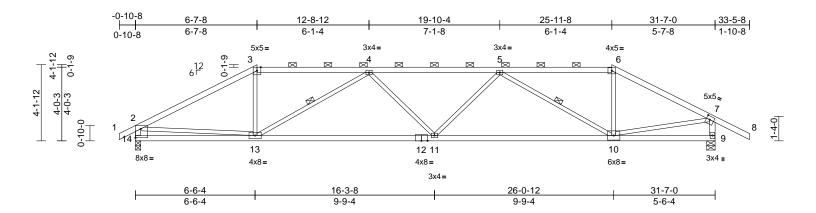
Page: 1

January 27,2022



Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	D3	Hip	1	1	I49889 Job Reference (optional)	9825

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Jan 25 16:23:00 ID:jtV340pcutan1WX7iQ8o3Iz1joh-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:62.8

Plate Offsets (X, Y): [7:0-2-4,0-2-4], [14:Edge,0-5-13]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.21	10-11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.99	Vert(CT)	-0.49	11-13	>766	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.10	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.15	11-13	>999	240	Weight: 113 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 9-7:2x4 SPF No.2, WEBS

14-2:2x4 SPF 2100F 1.8E

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-0-7 oc purlins, except end verticals, and

2-0-0 oc purlins (2-7-11 max.): 3-6.

BOT CHORD Rigid ceiling directly applied or 2-2-0 oc

bracing.

WEBS 1 Row at midpt 4-13, 5-10

REACTIONS (lb/size) 9=1553/0-5-8. 14=1476/0-3-8

Max Horiz 14=82 (LC 7)

Max Uplift 9=-176 (LC 4), 14=-161 (LC 5)

FORCES

(lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/32, 2-3=-2292/301, 3-4=-1940/292,

4-5=-2929/431, 5-6=-1685/263,

6-7=-1984/272, 7-8=0/63, 7-9=-1513/194,

2-14=-1420/188

BOT CHORD 13-14=-227/573, 11-13=-466/2876,

10-11=-439/2784, 9-10=-47/107 WEBS 3-13=-31/631, 4-13=-1173/298, 4-11=0/243,

5-11=0/329, 5-10=-1334/314, 6-10=-23/541,

7-10=-191/1622, 2-13=-184/1452

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 161 lb uplift at joint 14 and 176 lb uplift at joint 9.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



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Page: 1

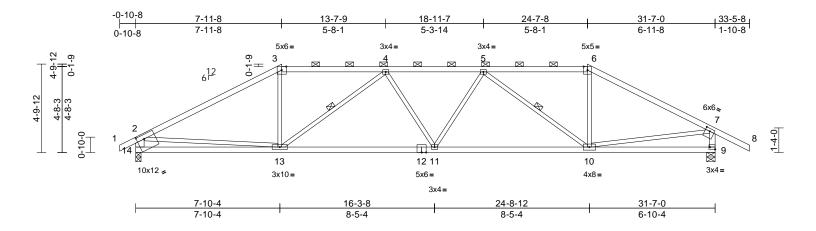




J	Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
E	3220019	D4	Hip	1	1	Job Reference (optional)	149889826

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Page: 1



Scale = 1:62.8

Plate Offsets (X, Y): [7:0-3-0,0-1-12], [9:Edge,0-1-8], [14:0-4-12,0-2-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.98	Vert(LL)	-0.15	11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.33	10-11	>999	240	1	
BCLL	0.0*	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.08	9	n/a	n/a	1	
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.11	11	>999	240	Weight: 117 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 9-7:2x4 SPF No.2,

14-2:2x6 SPF No.2

BRACING

WEBS

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

(3-6-0 max.): 3-6.

BOT CHORD Rigid ceiling directly applied or 9-11-7 oc

bracing.

WEBS 1 Row at midpt 4-13, 5-10

REACTIONS (lb/size) 9=1549/0-5-8. 14=1478/0-3-8

Max Horiz 14=91 (LC 7)

Max Uplift 9=-149 (LC 4), 14=-137 (LC 5)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/35, 2-3=-2229/267, 3-4=-1866/265,

4-5=-2481/348, 5-6=-1690/248,

6-7=-2012/250, 7-8=0/63, 7-9=-1487/181,

2-14=-1406/177

BOT CHORD 13-14=-312/762, 11-13=-344/2456, 10-11=-323/2402, 9-10=-86/225

3-13=-16/568, 4-13=-846/220, 4-11=0/166,

5-11=0/235, 5-10=-971/229, 6-10=-13/515,

7-10=-171/1493, 2-13=-162/1268

NOTES

WEBS

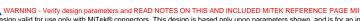
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 137 lb uplift at joint 14 and 149 lb uplift at joint 9.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



January 27,2022

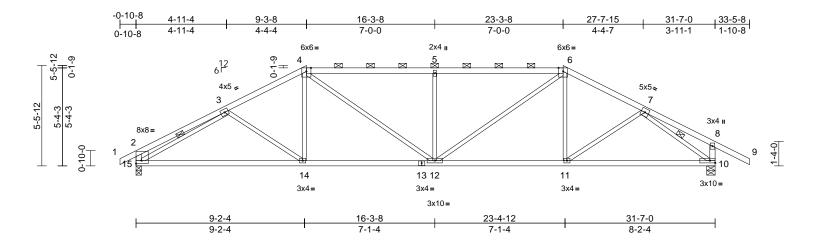




Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	D5	Hip	1	1	Job Reference (optional)	149889827

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Page: 1



Scale = 1:62.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.Ó	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	-0.18	1 4 -15	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.37	14-15	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.09	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.09	12-14	>999	240	Weight: 121 lb	FT = 10%

LUMBER

WEBS

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

2x3 SPF No.2 *Except* 10-8,15-2:2x4 SPF

BRACING

Structural wood sheathing directly applied or TOP CHORD 3-10-3 oc purlins, except end verticals, and

2-0-0 oc purlins (2-2-0 max.): 4-6. Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD bracing.

WEBS 1 Row at midpt 7-10, 3-15

REACTIONS (lb/size) 10=1553/0-5-8, 15=1476/0-3-8

Max Horiz 15=99 (LC 7)

Max Uplift 10=-153 (LC 9), 15=-141 (LC 8) (lb) - Maximum Compression/Maximum

FORCES

Tension TOP CHORD

1-2=0/32, 2-3=-588/84, 3-4=-2087/236, 4-5=-2242/312, 5-6=-2242/312,

6-7=-1932/225, 7-8=-171/39, 8-9=0/63,

8-10=-334/103, 2-15=-487/120

BOT CHORD 14-15=-224/1883, 12-14=-176/1813, 11-12=-112/1679, 10-11=-101/1503

WEBS 3-14=-105/181, 4-14=0/324, 4-12=-173/642,

5-12=-597/239, 6-12=-179/782, 6-11=-16/210, 7-11=-42/325

7-10=-1830/181, 3-15=-1693/192

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 153 lb uplift at joint 10 and 141 lb uplift at joint 15.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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



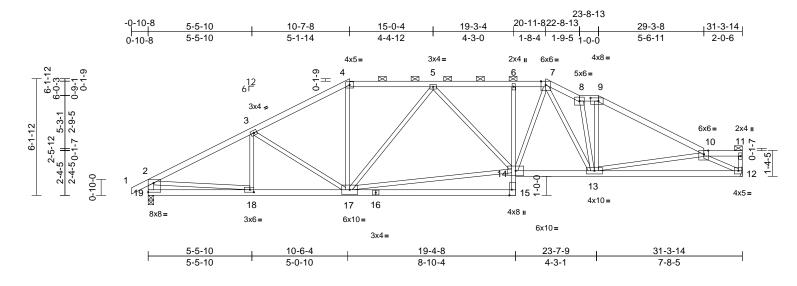
January 27,2022





Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	E1	Roof Special	1	1	Job Reference (optional)	149889828

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Jan 25 16:23:01 ID:K?5B76qMZAc5ZBoD__dyKWz1jm4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:60.7

Plate Offsets (X, Y): [9:0-5-0,0-2-0], [10:0-2-14,Edge], [15:0-3-8,Edge], [18:0-2-8,0-1-8], [19:Edge,0-5-13]

					-			-				
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	-0.20	15-17	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.45	15-17	>825	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.10	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.10	13-14	>999	240	Weight: 134 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except* 15-6:2x3 SPF No.2 2x3 SPF No.2 *Except* 19-2:2x4 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-8-8 oc purlins. except end verticals, and

2-0-0 oc purlins (3-9-13 max.): 4-7, 8-9, 10-11.

BOT CHORD

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

REACTIONS (lb/size) 12=1397/ Mechanical, 19=1471/0-3-8

Max Horiz 19=123 (LC 5)

Max Uplift 12=-132 (LC 9), 19=-155 (LC 8)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/32, 2-3=-2243/207, 3-4=-1989/192,

4-5=-1709/189, 5-6=-2164/225, 6-7=-2175/227, 7-8=-2471/253,

8-9=-2093/199, 9-10=-2387/180, 10-11=-102/0, 11-12=-57/25, 2-19=-1403/186

BOT CHORD 18-19=-181/402, 17-18=-224/1928,

15-17=0/206, 14-15=0/162, 6-14=-263/100,

13-14=-159/2009, 12-13=-279/2244

3-18=-103/60, 3-17=-278/172, 4-17=0/545, 5-17=-663/171, 14-17=-263/1890. 5-14=-27/224, 8-13=-855/75, 9-13=-36/617,

10-13=-213/179, 10-12=-2527/348, 2-18=-64/1536, 7-14=-120/575,

7-13=-114/521

NOTES

WEBS

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 132 lb uplift at joint 12 and 155 lb uplift at joint 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
- 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



January 27,2022

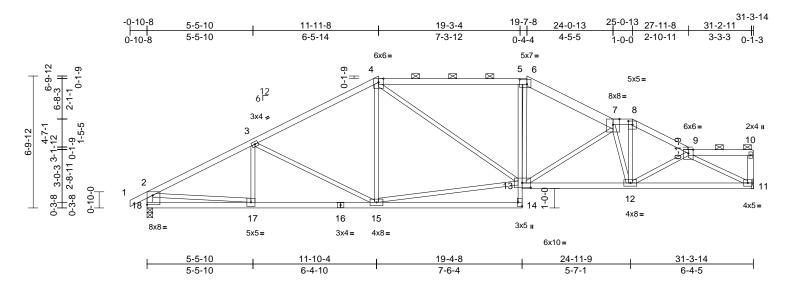




Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	E2	Roof Special	1	1	Job Reference (optional)	149889829

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Jan 25 16:23:01 ID:4i4yAwqwANsuJImtW446Opz1jiC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:59.5

Plate Offsets (X, Y): [6:0-4-8,0-3-0], [8:0-2-8,0-2-4], [13:0-5-4,0-3-0], [14:Edge,0-2-8], [18:Edge,0-5-13]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.95	Vert(LL)	-0.14	12-13	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.30	14-15	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.89	Horz(CT)	0.10	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.07	12-13	>999	240	Weight: 135 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 *Except* 6-7:2x6 SPF No.2 **BOT CHORD** 2x4 SPF No.2 *Except* 14-5:2x3 SPF No.2 2x3 SPF No.2 *Except* 18-2,11-10:2x4 SPF WEBS

BRACING

BOT CHORD

Structural wood sheathing directly applied or TOP CHORD 3-0-7 oc purlins, except end verticals, and

2-0-0 oc purlins (2-2-0 max.): 4-6, 7-8, 9-10. Rigid ceiling directly applied or 10-0-0 oc

bracing.

11=1395/ Mechanical, REACTIONS (lb/size) 18=1469/0-3-8

Max Horiz 18=124 (LC 5)

Max Uplift 11=-2 (LC 9), 18=-10 (LC 8)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/32, 2-3=-2262/12, 3-4=-1914/11,

4-5=-1948/18, 5-6=-1946/17, 6-7=-2129/0,

7-8=-2136/0, 8-9=-2408/0, 9-10=-61/7,

2-18=-1407/38, 10-11=-134/25 **BOT CHORD** 17-18=-108/359, 15-17=-37/1950,

14-15=0/95, 13-14=0/134, 5-13=-446/163,

12-13=0/2334, 11-12=-17/2230

WEBS 3-17=-82/102, 3-15=-390/106, 4-15=0/275, 13-15=-10/1547, 4-13=-46/527,

7-13=-528/50, 8-12=0/912, 9-12=-150/61,

9-11=-2485/20, 2-17=0/1602, 6-13=-74/760,

7-12=-732/16

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 10 lb uplift at joint 18 and 2 lb uplift at joint 11.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



January 27,2022

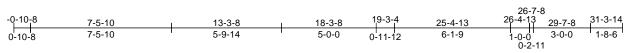




Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	E3	Roof Special	1	1	Job Reference (optional)	149889830

Run: 8.43 S. Oct 11 2021 Print: 8.430 S. Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 16:23:02 ID:ocUQWHDVmvgySaJkYy6JtLz1jf7-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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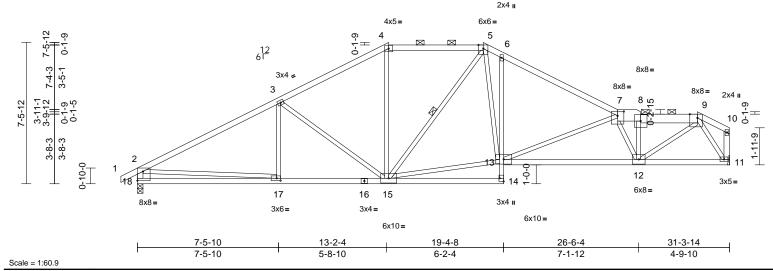


Plate Offsets (X, Y): [7:0-4-0,0-2-12], [9:0-4-13,Edge], [14:Edge,0-2-8], [17:0-2-8,0-1-8], [18:Edge,0-5-13]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	-0.14	12-13	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.31	12-13	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.09	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.07	12-13	>999	240	Weight: 138 lb	FT = 10%

LUMBER

2x4 SPF No.2 *Except* 7-8:2x8 SP DSS, TOP CHORD

8-9:2x6 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except* 14-6:2x3 SPF No.2 **WEBS** 2x3 SPF No.2 *Except* 18-2:2x4 SPF 2400F

2.0E. 11-10:2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-0-8 oc purlins, except end verticals, and 2-0-0 oc purlins (4-3-8 max.): 4-5, 7-9.

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

bracing.

WEBS 1 Row at midpt 5-15 REACTIONS (lb/size) 11=1395/ Mechanical,

18=1469/0-3-8

Max Horiz 18=132 (LC 5)

Max Uplift 11=-8 (LC 9), 18=-16 (LC 8)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 1-2=0/32, 2-3=-2246/20, 3-4=-1782/37,

4-5=-1509/56, 5-6=-2094/86, 6-7=-2148/13, 7-9=-2296/0, 9-10=-67/27, 2-18=-1392/59,

10-11=-69/16

BOT CHORD 17-18=-161/660, 15-17=-29/1901,

14-15=-6/67, 13-14=0/109, 6-13=-338/152.

12-13=-8/2555, 11-12=-13/810

WEBS 3-17=0/199, 3-15=-511/99, 4-15=0/382, 7-13=-774/70, 9-12=0/1886, 2-17=0/1246,

9-11=-1505/16, 5-15=-402/35, 7-12=-728/52,

8-12=-359/38, 5-13=-96/1039, 13-15=0/1619

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- Provide adequate drainage to prevent water ponding.
- The Fabrication Tolerance at joint 2 = 6%
- 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 16 lb uplift at joint 18 and 8 lb uplift at joint 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.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



January 27,2022



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	E4	Roof Special	1	1	Job Reference (optional)	149889831

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 16:23:02 ID:IVJ3PIHIVSDhTruc3MhPIPz1jcS-RfC?PsB70Hq3NSqPqnL8w3ulTXbGKWrCDoi7J4zJC?f



5x6=

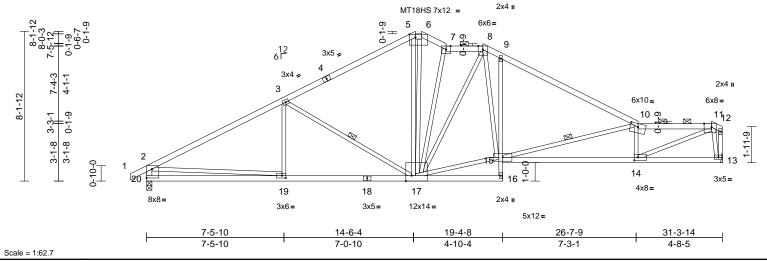


Plate Offsets (X, Y): [5:0-4-0,0-1-15], [10:0-5-0,0-2-4], [11:0-4-13,Edge], [14:0-2-8,0-2-0], [17:0-3-12,Edge], [19:0-2-8,0-1-8], [20:Edge,0-5-13]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	-0.19	14-15	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.41	14-15	>900	240	MT18HS	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.09	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.10	14-15	>999	240	Weight: 143 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 *Except* 8-10:2x4 SPF 2100F

1.8E

BOT CHORD 2x4 SPF No.2 *Except* 16-9:2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except* 20-2:2x4 SPF 2100F 1.8E

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-3-10 oc purlins, except end verticals, and 2-0-0 oc purlins (3-2-10 max.): 5-6, 7-8,

10-11.

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

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

WEBS 1 Row at midpt 3-17, 10-15

REACTIONS (lb/size) 13=1397/ Mechanical,

20=1471/0-3-8

Max Horiz 20=142 (LC 5)

Max Uplift 13=-25 (LC 9), 20=-22 (LC 8)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/32, 2-3=-2264/32, 3-5=-1696/62,

5-6=-1415/71, 6-7=-1522/63, 7-8=-1544/61, 8-9=-2197/152, 9-10=-2205/52, 10-11=-2966/34, 11-12=-52/19,

2-20=-1397/62, 12-13=-46/17 BOT CHORD 19-20=-160/614, 17-19=-48/1922,

CHORD 19-20=-160/614, 17-19=-48/1922, 16-17=-27/30, 15-16=0/66, 9-15=-554/214,

14-15=-35/2902, 13-14=-18/372

WEBS 3-19=0/234, 3-17=-634/109, 5-17=0/442, 6-17=-41/577, 10-15=-1061/51,

10-14=-1115/98, 11-14=-24/2869, 2-19=0/1313, 8-17=-355/34, 7-17=-678/43,

8-15=-156/1280, 15-17=0/1668,

11-13=-1405/51

NOTES

 Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * 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.
- 7) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 20 and 25 lb uplift at joint 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.
- 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



Page: 1



Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	E5	Roof Special	1	1	Job Reference (optional)	149889832

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Jan 25 16:23:03 ID:8Hru4gbV3dqMQS9MO2dkgBz1jam-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1

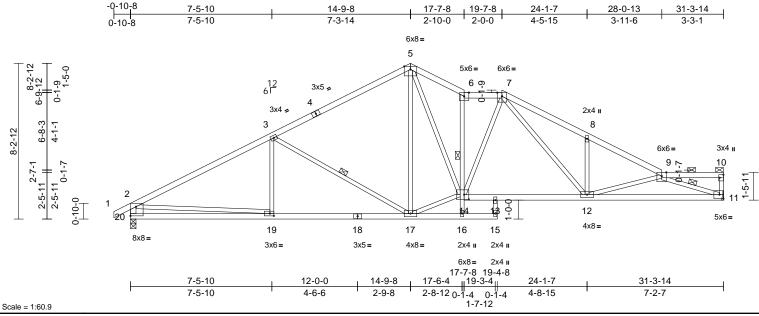


Plate Offsets (X, Y): [9:0-2-14,Edge], [10:Edge,0-2-8], [14:0-3-0,0-3-0], [19:0-2-8,0-1-8], [20:Edge,0-5-13]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.20	12-13	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.39	12-13	>952	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.11	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.14	12-13	>999	240	Weight: 133 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2

2x3 SPF No.2 *Except* 20-2:2x4 SPF 2100F WEBS

BRACING TOP CHORD

WEBS

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

2-0-0 oc purlins (4-1-7 max.): 6-7, 9-10. Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD bracing, Except:

8-7-14 oc bracing: 11-12.

1 Row at midpt 6-16, 9-11, 3-17

11=1397/ Mechanical, REACTIONS (lb/size)

20=1471/0-3-8

Max Horiz 20=154 (LC 5)

Max Uplift 11=-186 (LC 9), 20=-190 (LC 8)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 1-2=0/32, 2-3=-2268/264, 3-5=-1684/251,

5-6=-2204/352, 6-7=-1955/281, 7-8=-2748/436, 8-9=-2737/331, 9-10=-85/0,

10-11=-136/44, 2-20=-1397/229

BOT CHORD 19-20=-304/599, 17-19=-290/1928,

16-17=0/23, 15-16=0/0, 13-14=-145/1865,

12-13=-145/1865, 11-12=-457/3135

WEBS 13-15=-2/7, 14-16=0/99, 6-14=-1057/204,

7-12=-188/847, 9-11=-3280/488,

2-19=-34/1333, 3-19=0/237, 5-17=-118/104,

14-17=-96/1453, 3-17=-659/234, 8-12=-288/181, 9-12=-765/201,

5-14=-247/1472, 7-14=-47/308

NOTES

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 4) 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 186 lb uplift at joint 11 and 190 lb uplift at joint 20.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802 10 2 and referenced standard ANSI/TPI 1
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



January 27,2022



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 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

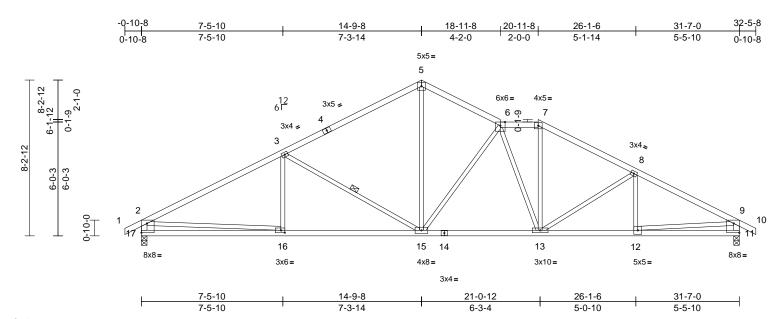


16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	G1	Roof Special	1	1	Job Reference (optional)	149889833

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Jan 25 16:23:03 ID:8eT1wkdp2lXI7W8itOegd6z1jZR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:60.9

Plate Offsets (X, Y): [11:Edge,0-5-13], [16:0-2-8,0-1-8], [17:Edge,0-5-13]

1	(5)	0	0.0.0	001		DEEL		(1)	1/-1-6	1 /-1	DI ATEO	ODID
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/a	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	-0.12	15-16	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.26	15-16	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.89	Horz(CT)	0.07	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.08	15-16	>999	240	Weight: 127 lb	FT = 10%

LUMBER

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

WEBS

2x3 SPF No.2 *Except* 17-2:2x4 SPF 2100F

1.8E, 11-9:2x4 SPF No.2

BRACING

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

2-0-0 oc purlins (4-4-12 max.): 6-7.

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

bracing.

WEBS 1 Row at midpt 3-15

REACTIONS (lb/size) 11=1480/0-3-8, 17=1480/0-3-8

Max Horiz 17=124 (LC 7)

Max Uplift 11=-209 (LC 9), 17=-191 (LC 8)

FORCES

(lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/32, 2-3=-2285/267, 3-5=-1702/259,

5-6=-1623/251, 6-7=-1707/292,

7-8=-1997/288, 8-9=-2264/301, 9-10=0/32,

2-17=-1405/230, 9-11=-1415/236 16-17=-271/602, 15-16=-259/1942,

BOT CHORD 13-15=-80/1819, 12-13=-195/1947,

11-12=-89/398

WEBS 7-13=-36/570, 8-13=-314/146, 8-12=-88/84,

2-16=-35/1345, 9-12=-106/1559,

5-15=-115/1020, 6-15=-707/220, 3-15=-659/237, 3-16=0/231, 6-13=-326/93

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 191 lb uplift at joint 17 and 209 lb uplift at joint 11.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



January 27,2022



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	G2	Roof Special	1	1	Job Reference (optional)	149889834

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Jan 25 16:23:03 ID:CoP7dh?uWaamzQbrl6DAwsz1jYx-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

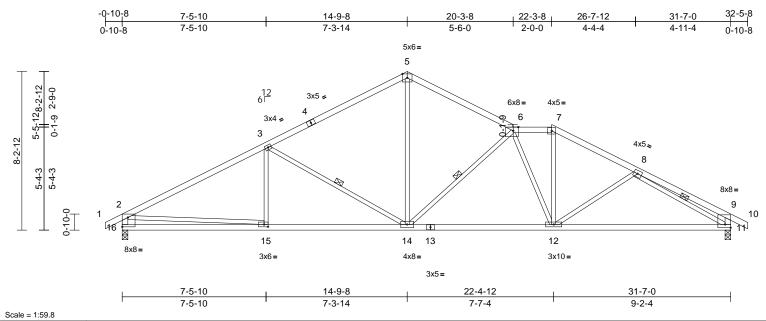


Plate Offsets (X, Y): [6:0-3-3,Edge], [9:Edge,0-2-0], [15:0-2-8,0-1-8], [16:Edge,0-5-13]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	-0.17	11-12	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.37	11-12	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.08	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.08	12-14	>999	240	Weight: 124 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 16-2,11-9:2x4 SPF

2100F 1.8E

BRACING

WEBS

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

2-0-0 oc purlins (4-3-9 max.): 6-7.

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

bracing.

WEBS 1 Row at midpt 3-14, 6-14, 8-11

REACTIONS (lb/size) 11=1480/0-3-8. 16=1480/0-3-8

> Max Horiz 16=124 (LC 7) Max Uplift 11=-209 (LC 9), 16=-191 (LC 8)

(lb) - Maximum Compression/Maximum

FORCES

Tension TOP CHORD

1-2=0/32, 2-3=-2284/267, 3-5=-1703/260, 5-6=-1664/249, 6-7=-1799/283,

7-8=-2088/282, 8-9=-592/104, 9-10=0/32,

2-16=-1405/230, 9-11=-487/131

BOT CHORD 15-16=-271/605, 14-15=-259/1941, 12-14=-116/1979, 11-12=-228/1892

WEBS 3-15=0/230, 3-14=-659/237, 5-14=-91/984,

6-14=-775/230, 6-12=-474/120,

7-12=-47/663, 8-12=-140/166

2-15=-32/1340, 8-11=-1698/239

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 191 lb uplift at joint 16 and 209 lb uplift at joint 11.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	G3	Roof Special	1	1	Job Reference (optional)	149889835

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Jan 25 16:23:04 ID:9jakB?RT1e6fHyLmsgsdNSz1jYN-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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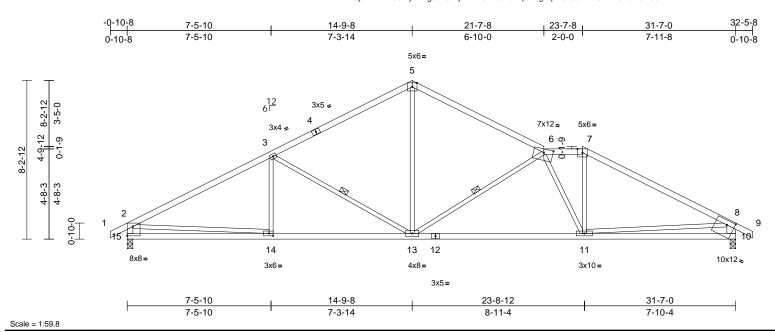


Plate Offsets (X, Y): [6:0-5-10,0-2-4], [10:0-4-12,0-2-12], [14:0-2-8,0-1-8], [15:Edge,0-5-13]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.95	Vert(LL)	-0.15	11-13	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.36	11-13	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.54	Horz(CT)	0.07	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.08	13-14	>999	240	Weight: 121 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 15-2:2x4 SPF 2100F

1.8E, 10-8:2x6 SPF No.2

BRACING

WEBS

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

(4-0-1 max.): 6-7.

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

bracing.

WEBS 1 Row at midpt 3-13, 6-13

REACTIONS (lb/size) 10=1482/0-3-8. 15=1476/0-3-8

Max Horiz 15=125 (LC 7)

Max Uplift 10=-210 (LC 9), 15=-191 (LC 8) (lb) - Maximum Compression/Maximum

FORCES

TOP CHORD

Tension

1-2=0/32, 2-3=-2272/268, 3-5=-1702/257, 5-6=-1688/242, 6-7=-1866/293,

7-8=-2235/269, 8-9=0/35, 2-15=-1400/231,

8-10=-1411/250

BOT CHORD 14-15=-269/612, 13-14=-259/1930,

11-13=-166/2126, 10-11=-277/767 WEBS 3-14=0/217, 3-13=-652/240, 5-13=-62/937.

6-13=-852/261, 6-11=-608/122, 7-11=-6/626,

2-14=-30/1322, 8-11=0/1117

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 191 lb uplift at joint 15 and 210 lb uplift at joint 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.
- 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







Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 16:23:04 ID:djjO6n45ncfGWyKmvbopUQz1jXZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

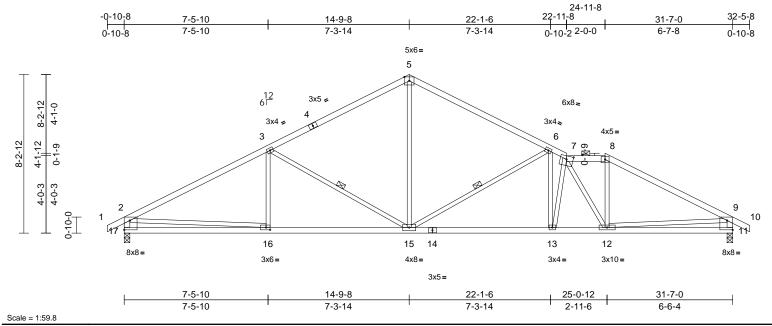


Plate Offsets (X, Y): [7:0-4-0,0-2-4], [11:Edge,0-5-13], [16:0-2-8,0-1-8], [17:Edge,0-5-13]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.14	13-15	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.70	Vert(CT)	-0.30	13-15	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.64	Horz(CT)	0.07	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.09	13-15	>999	240	Weight: 125 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 17-2:2x4 SPF 2400F

2.0E, 11-9:2x4 SPF 2100F 1.8E

BRACING

WEBS

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

2-0-0 oc purlins (4-0-11 max.): 7-8.

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

bracing.

WEBS 1 Row at midpt 3-15, 6-15

REACTIONS (lb/size) 11=1480/0-3-8, 17=1480/0-3-8

Max Horiz 17=125 (LC 7)

Max Uplift 11=-209 (LC 9), 17=-191 (LC 8)

FORCES

(lb) - Maximum Compression/Maximum

TOP CHORD

1-2=0/32, 2-3=-2282/268, 3-5=-1707/260,

5-6=-1708/245, 6-7=-2415/268,

7-8=-1917/302, 8-9=-2271/289, 9-10=0/32, 2-17=-1404/231, 9-11=-1407/246

BOT CHORD 16-17=-272/613, 15-16=-259/1939,

13-15=-197/2242, 12-13=-181/2311,

11-12=-185/610

WEBS 3-16=0/223, 3-15=-655/239, 5-15=-71/946,

6-15=-957/287, 7-12=-801/69, 8-12=-5/651, 2-16=-30/1330, 9-12=-6/1330, 6-13=0/515,

7-13=-318/3

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 191 lb uplift at joint 17 and 209 lb uplift at joint 11.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	G5	Roof Special	1	1	Job Reference (optional)	149889837

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Jan 25 16:23:04 ID:M440JW2KPiB8a?H5yKD1boz1jV0-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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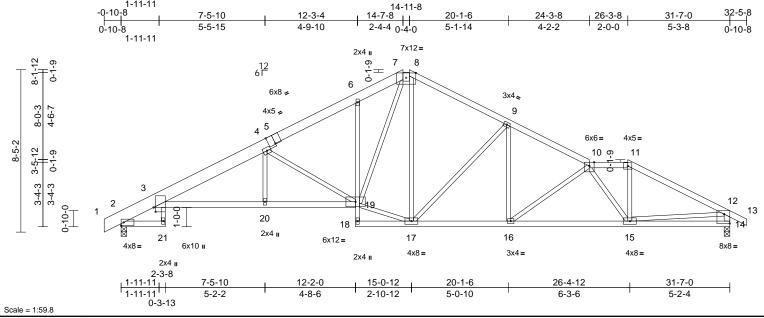


Plate Offsets (X, Y): [3:0-2-12,0-1-5], [5:0-4-0,Edge], [8:0-6-0,0-3-0], [14:Edge,0-5-13]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	-0.19	19-20	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.36	19-20	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.25	14	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.14	19-20	>999	240	Weight: 153 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 *Except* 1-5:2x8 SP DSS,

7-8,5-7:2x6 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except* 6-18:2x3 SPF No.2 **WEBS** 2x3 SPF No.2 *Except* 14-12:2x4 SPF No.2

BRACING

Structural wood sheathing directly applied or TOP CHORD 3-6-1 oc purlins, except end verticals, and

2-0-0 oc purlins (4-2-3 max.): 7-8, 10-11.

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

bracing, Except:

6-0-0 oc bracing: 2-21.

REACTIONS (lb/size) 2=1492/0-3-8, 14=1480/0-3-8

Max Horiz 2=132 (LC 8)

Max Uplift 2=-183 (LC 8), 14=-208 (LC 9)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/6, 2-3=-863/164, 3-4=-2925/340,

4-6=-2199/276, 6-7=-2088/338, 7-8=-1378/266, 8-9=-1685/248,

9-10=-2250/298, 10-11=-1931/288, 11-12=-2271/282, 12-13=0/32,

12-14=-1423/231

2-21=-27/0, 3-20=-342/2677, **BOT CHORD**

19-20=-340/2677, 18-19=0/36, 6-19=-172/119, 17-18=-13/51,

16-17=-107/1968, 15-16=-240/2470, 14-15=-121/420

WEBS 3-21=0/55, 4-19=-966/245, 7-19=-243/1247,

8-17=-124/251, 9-17=-757/217, 10-15=-962/115, 11-15=-13/719, 12-15=-55/1546, 9-16=-28/491,

10-16=-626/165, 4-20=0/224, 17-19=-42/1478

NOTES

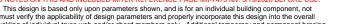
1) Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 183 lb uplift at joint 2 and 208 lb uplift at joint 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.
- 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



January 27,2022



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 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

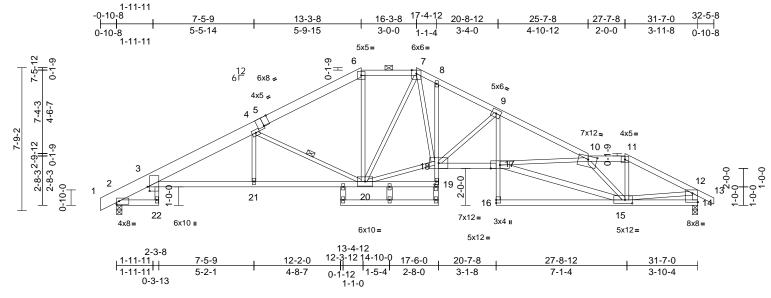


16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	G6	Roof Special	1	1	Job Reference (optional)	149889838

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Jan 25 16:23:05 ID:WSrcGbvRHiOtL1AP8qRr03z1jQ1-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:62.6

Plate Offsets (X, Y): [3:0-2-12,0-1-5], [5:0-4-0,Edge], [10:0-5-10,0-2-4], [14:Edge,0-5-13], [15:0-4-12,0-2-4], [19:0-1-8,0-1-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.31	17-18	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.57	17-18	>663	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.88	Horz(CT)	0.39	14	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.19	17-18	>999	240	Weight: 167 lb	FT = 10%

LUMBER

2x4 SPF No.2 *Except* 1-5:2x8 SP DSS, TOP CHORD

5-6:2x6 SPF No.2

2x4 SPF No.2 *Except* 19-8,9-16:2x3 SPF BOT CHORD

No 2

WEBS 2x3 SPF No.2 *Except*

23-24,15-17,14-12,19-25,26-27:2x4 SPF

BRACING

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

2-0-0 oc purlins (4-1-8 max.): 6-7, 10-11.

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

bracing, Except:

6-0-0 oc bracing: 2-22

2-2-0 oc bracing: 17-18

WEBS 1 Row at midpt 4-20

REACTIONS (lb/size) 2=1492/0-3-8, 14=1480/0-3-8

Max Horiz 2=121 (LC 12)

Max Uplift 2=-173 (LC 8), 14=-198 (LC 9)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD 1-2=0/6, 2-3=-863/147, 3-4=-2920/317,

4-6=-2083/217, 6-7=-1789/233, 7-8=-2592/297, 8-9=-2694/262,

9-10=-4022/380, 10-11=-2024/260, 11-12=-2241/257, 12-13=0/32,

12-14=-1430/209

BOT CHORD 2-22=-27/0, 3-21=-311/2672,

20-21=-309/2672, 19-20=-4/81, 18-19=0/58, 8-18=-36/63, 17-18=-190/3543, 16-17=0/126,

9-17=-78/1339, 15-16=0/66, 14-15=-73/297

WEBS 3-22=0/55, 4-20=-1018/279, 6-20=-34/566,

7-20=-622/80, 18-20=-34/1993, 7-18=-182/1549, 9-18=-1593/255, 15-17=-377/3596, 10-17=-55/174, 10-15=-2503/311, 11-15=-37/780,

12-15=-99/1671, 4-21=0/233

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16: Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 173 lb uplift at joint 2 and 198 lb uplift at joint 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

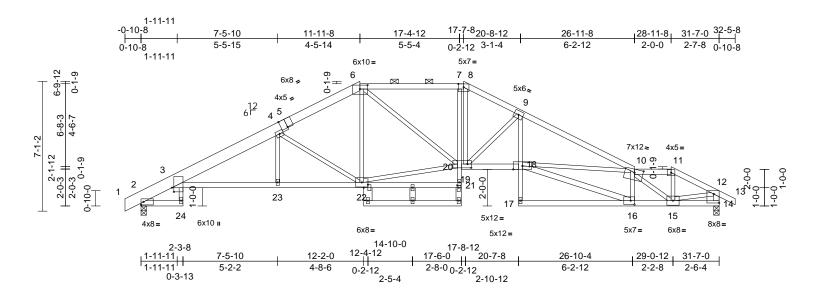






Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	G7	Roof Special	1	1	Job Reference (optional)	149889839

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Jan 25 16:23:05 ID:Vz_TTjrIkZKmrzWsgan3hbz1jKy-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:62.9

[3:0-2-12,0-1-5], [5:0-4-0,Edge], [6:0-5-0,0-2-9], [8:0-3-8,0-2-3], [10:0-5-10,0-2-4], [14:Edge,0-5-13], [16:0-2-8,0-2-8], [20:0-2-8,0-2-8], [21:0-1-8,0-1-0],

Plate Offsets (X, Y): [22:0-2-0,0-2-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	-0.28	18-19	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.51	18-19	>737	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.36	14	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.17	18-19	>999	240	Weight: 164 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 *Except* 1-5:2x8 SP DSS,

8-10:2x4 SPF 2100F 1.8E, 5-6:2x6 SPF No.2 2x4 SPF No.2 *Except* 21-7,9-17:2x3 SPF

BOT CHORD No.2

2x3 SPF No.2 *Except* 22-25:2x6 SPF No.2,

16-18,14-12,21-26,27-28:2x4 SPF No.2

BRACING

WFBS

TOP CHORD Structural wood sheathing directly applied or 2-10-6 oc purlins, except end verticals, and

2-0-0 oc purlins (2-10-15 max.): 6-8, 10-11.

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

bracing, Except:

6-0-0 oc bracing: 2-24

2-2-0 oc bracing: 18-19.

REACTIONS (lb/size) 2=1492/0-3-8, 14=1480/0-3-8

Max Horiz 2=109 (LC 8)

Max Uplift 2=-161 (LC 8), 14=-189 (LC 9)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-3=-863/129, 3-4=-2899/275,

4-6=-2241/217, 6-7=-2473/231, 7-8=-2424/230, 8-9=-2813/246,

9-10=-4095/345, 10-11=-1700/222, 11-12=-1986/234, 12-13=0/32,

12-14=-1420/202

BOT CHORD 2-24=-27/0, 3-23=-256/2649

22-23=-255/2648, 21-22=-8/136, 20-21=0/102, 7-20=-359/131,

19-20=-18/2466, 18-19=-166/3558, 17-18=0/115, 9-18=-54/1324, 16-17=0/53,

15-16=-295/3068, 14-15=-25/184

WFBS

3-24=0/55. 4-22=-863/230. 20-22=-66/1830.

9-19=-1486/252, 16-18=-306/3138, 10-18=-15/555, 10-16=-941/178,

10-15=-1792/171, 11-15=-67/752,

12-15=-148/1609, 6-22=-52/295, 4-23=0/196,

6-20=-87/760, 8-19=-109/1201

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 161 lb uplift at joint 2 and 189 lb uplift at joint 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.
- 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



Page: 1

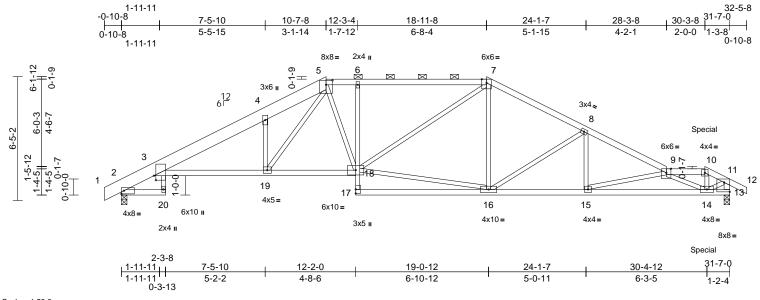
January 27,2022



Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	G8	Roof Special Girder	1	1	Job Reference (optional)	149889840

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Jan 25 16:23:06 ID:Pj1gZ196IFOgFKcZNBirxtz1jHz-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:59.8

Plate Offsets (X, Y):	[3:0-2-12,0-1-5]	[5:0-4-0,0-2-12],	, [9:0-2-14,Edge],	[13:Edge,0-5-13]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.97	Vert(LL)	-0.21	6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.39	16-17	>974	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.63	Horz(CT)	0.26	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.13	18-19	>999	240	Weight: 150 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 *Except* 1-5:2x8 SP DSS 2x4 SPF No.2 *Except* 6-17:2x3 SPF No.2, BOT CHORD

17-13:2x4 SPF 2100F 1.8E

WEBS 2x3 SPF No.2 *Except* 13-11:2x4 SPF No.2

BRACING

Structural wood sheathing directly applied or TOP CHORD 3-2-10 oc purlins, except end verticals, and

2-0-0 oc purlins (2-7-11 max.): 5-7, 9-10.

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

bracing, Except:

6-0-0 oc bracing: 2-20. REACTIONS (lb/size) 2=1489/0-3-8, 13=1399/0-3-8

Max Horiz 2=97 (LC 8)

Max Uplift 2=-150 (LC 8), 13=-205 (LC 9)

FORCES

(lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/6, 2-3=-861/113, 3-4=-2954/239,

4-5=-3141/375, 5-6=-2243/203,

6-7=-2245/209, 7-8=-2145/211, 8-9=-2784/285, 9-10=-1192/137,

10-11=-1383/145, 11-12=0/32, 11-13=-1350/157

2-20=-27/0, 3-19=-210/2711, BOT CHORD

18-19=-112/2067, 17-18=0/127, 6-18=-458/202, 16-17=0/118,

15-16=-178/2447, 14-15=-380/3364,

13-14=-15/85

WEBS 3-20=0/55, 4-19=-844/273, 16-18=-61/1749,

7-18=-122/605, 7-16=-32/339,

8-16=-706/208, 8-15=0/362, 9-15=-949/209, 9-14=-2472/319, 10-14=-69/581,

11-14=-106/1330, 5-19=-238/1135, 5-18=-154/638

NOTES

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 150 lb uplift at joint 2 and 205 lb uplift at joint 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 126 lb down and 235 lb up at 30-3-8 on top chord, and 17 lb down and 65 lb up at 30-2-6 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-5=-70, 5-7=-70, 7-9=-70, 9-10=-70, 10-11=-70, 11-12=-70, 2-20=-20, 3-18=-20,

13-17=-20

Concentrated Loads (lb) Vert: 10=58 (B), 14=26 (B)



January 27,2022

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 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

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



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	H1	Hip	1	1	Job Reference (optional)	I49889841

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries. Inc. Tue Jan 25 16:23:07 ID:?DSFCFxtSDaRYJ43gLN53az1jGy-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

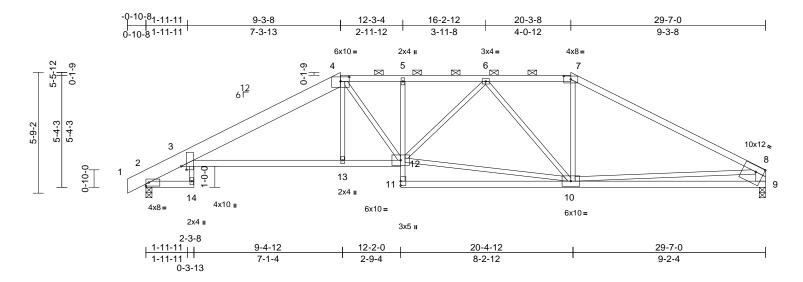


Plate Offsets (X, Y): [3:0-2-0,0-3-1], [4:0-5-0,0-2-9], [7:0-4-0,0-1-15], [8:Edge,0-3-4]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	-0.19	3-13	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.42	3-13	>830	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.26	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.13	3-13	>999	240	Weight: 134 lb	FT = 10%

LUMBER

2x8 SP DSS *Except* 4-7:2x4 SPF No.2, TOP CHORD

7-8:2x4 SPF 2400F 2.0E

BOT CHORD 2x4 SPF No.2 *Except* 5-11:2x3 SPF No.2 **WEBS** 2x3 SPF No.2 *Except* 9-8:2x6 SPF No.2

BRACING

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

(3-7-4 max.): 4-7.

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

bracing, Except: 6-0-0 oc bracing: 2-14.

REACTIONS (lb/size) 2=1399/0-3-8, 9=1314/0-3-8

Max Horiz 2=94 (LC 12)

Max Uplift 2=-133 (LC 8), 9=-115 (LC 9)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-3=-805/75, 3-4=-2375/206,

4-5=-2284/266, 5-6=-2276/266, 6-7=-1680/185, 7-8=-2014/172,

8-9=-1227/165

BOT CHORD 2-14=-26/0, 3-13=-187/2122,

12-13=-184/2125, 11-12=0/133,

5-12=-210/106, 10-11=0/194, 9-10=-200/704

WEBS 3-14=0/54, 4-13=0/319, 4-12=-149/399, 10-12=-216/1884, 6-12=-33/345,

6-10=-727/195, 7-10=0/475, 8-10=-111/1025

NOTES

- Unbalanced roof live loads have been considered for 1)
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 133 lb uplift at joint 2 and 115 lb uplift at joint 9.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



Page: 1

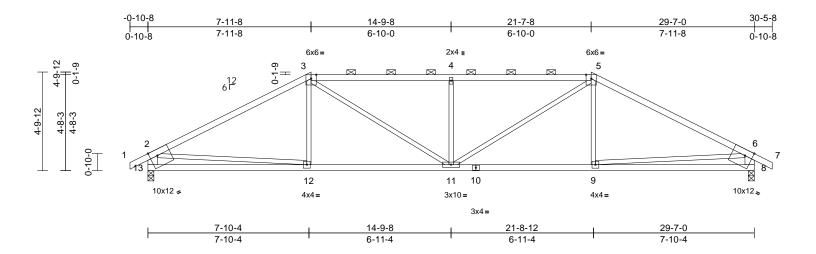
January 27,2022





Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	H2	Hip	1	1	Job Reference (optional)	149889842

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 16:23:07 ID:0mW6LtLCRgtddXhbgU_3Slz1jGQ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:56.2

Plate Offsets (X, Y): [8:0-4-6,Edge], [13:0-4-6,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	-0.12	11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.23	9-11	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.06	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.09	11	>999	240	Weight: 109 lb	FT = 10%

LUMBER

WEBS

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

2x3 SPF No.2 *Except* 13-2,8-6:2x6 SPF

BRACING

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

(2-10-6 max.): 3-5.

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

bracing.

REACTIONS (lb/size) 8=1388/0-3-8, 13=1388/0-3-8

Max Horiz 13=80 (LC 7)

Max Uplift 8=-126 (LC 9), 13=-126 (LC 8)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/35, 2-3=-2053/224, 3-4=-2251/317,

4-5=-2251/317, 5-6=-2053/224, 6-7=0/35,

2-13=-1314/170, 6-8=-1314/170 12-13=-315/745, 11-12=-180/1717,

9-11=-119/1717, 8-9=-263/745

WEBS 3-12=0/245, 3-11=-178/749, 4-11=-576/233,

5-11=-177/749, 5-9=0/245, 2-12=-145/1138,

6-9=-149/1138

NOTES

BOT CHORD

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 126 lb uplift at joint 13 and 126 lb uplift at joint 8.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



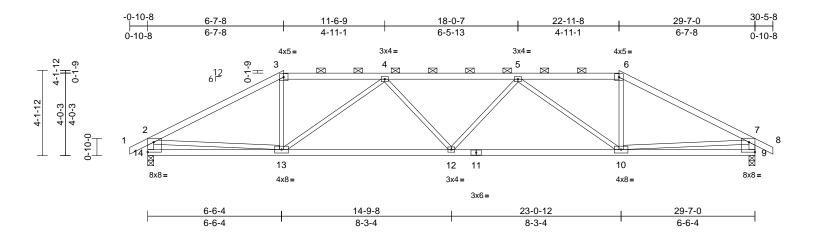
Page: 1



Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	H3	Hip	1	1	Job Reference (optional)	149889843

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries. Inc. Tue Jan 25 16:23:07 ID:jyeJ?6g84zGoNhFnlfzO2Rz1jG?-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:56.1

Plate Offsets (X, Y): [9:Edge,0-5-13], [14:Edge,0-5-13]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	-0.16	12	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.33	10-12	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.08	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.12	12	>999	240	Weight: 106 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 14-2,9-7:2x4 SPF

2100F 1.8E

BRACING

WEBS

Structural wood sheathing directly applied or TOP CHORD 3-2-15 oc purlins, except end verticals, and

2-0-0 oc purlins (3-0-4 max.): 3-6.

BOT CHORD Rigid ceiling directly applied or 9-7-4 oc

bracing.

REACTIONS (lb/size) 9=1390/0-3-8, 14=1390/0-3-8

Max Horiz 14=70 (LC 7)

Max Uplift 9=-138 (LC 4), 14=-138 (LC 5)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/32, 2-3=-2115/261, 3-4=-1781/255,

4-5=-2569/354, 5-6=-1781/255,

6-7=-2115/261, 7-8=0/32, 2-14=-1329/169,

7-9=-1329/169

BOT CHORD 13-14=-227/580, 12-13=-370/2494,

10-12=-349/2494, 9-10=-186/580 WEBS

3-13=-35/602, 4-13=-967/243, 4-12=0/227, 5-12=0/227, 5-10=-967/243, 6-10=-35/602,

2-13=-156/1283, 7-10=-161/1283

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 138 lb uplift at joint 14 and 138 lb uplift at joint 9.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



January 27,2022





Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	H4	Hip	1	1	Job Reference (optional)	149889844

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Jan 25 16:23:08 ID:TlkmK9VMg34yHFPWG0dVr4z1jB3-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1

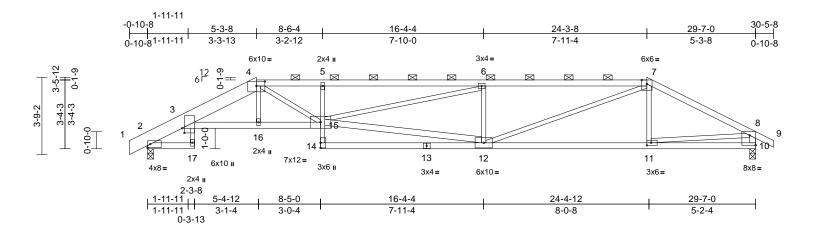


Plate Offsets (X, Y): [3:0-2-12,0-1-5], [4:0-5-0,0-2-9], [10:Edge,0-5-13], [11:0-2-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	-0.27	5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.54	12-14	>651	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.22	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.20	5	>999	240	Weight: 124 lb	FT = 10%

2x8 SP DSS *Except* 4-7:2x4 SPF 2100F TOP CHORD

1.8E, 7-9:2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except* 5-14:2x3 SPF No.2 **WEBS**

2x3 SPF No.2 *Except* 12-15,10-8:2x4 SPF

No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-8-6 oc purlins, except end verticals, and 2-0-0 oc purlins (2-4-4 max.): 4-7.

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

bracing.

REACTIONS (lb/size) 2=1402/0-3-8, 10=1390/0-3-8

Max Horiz 2=57 (LC 7)

Max Uplift 2=-156 (LC 5), 10=-164 (LC 4)

FORCES

(lb) - Maximum Compression/Maximum

TOP CHORD 1-2=0/6, 2-3=-806/121, 3-4=-2992/431,

4-5=-3855/644, 5-6=-3836/651,

6-7=-3287/549, 7-8=-2141/302, 8-9=0/32,

8-10=-1345/185

BOT CHORD 2-17=-26/0, 3-16=-396/2799, 15-16=-392/2801, 14-15=0/141,

5-15=-372/169, 12-14=-9/259,

11-12=-210/1850, 10-11=-104/346

3-17=0/54, 4-16=0/152, 4-15=-299/1299, 12-15=-503/3050, 6-15=-115/596,

6-12=-798/289, 7-12=-322/1610,

7-11=-45/148, 8-11=-220/1513

NOTES

WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 156 lb uplift at joint 2 and 164 lb uplift at joint 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.
- 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



January 27,2022

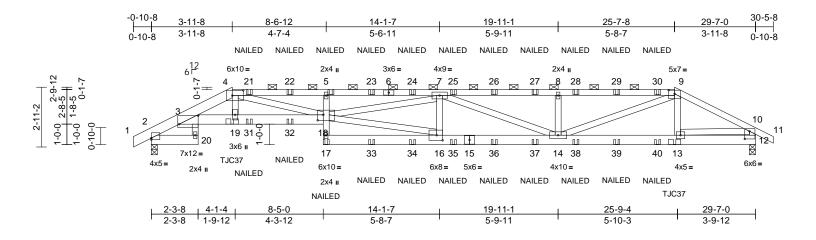




Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	H5	Hip Girder	1	2	Job Reference (optional)	149889845

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Jan 25 16:23:09 ID:yZSixNlzPi3L84nJo9_fWoz1j9S-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:56.4

Plate Offsets (X, Y): [2:Edge,0-0-15], [3:0-11-3,0-5-0], [4:0-6-8,0-3-0], [9:0-3-8,0-2-3], [12:0-2-12,0-4-8], [16:0-3-8,0-3-0], [18:0-3-4,0-3-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.95	Vert(LL)	-0.36	18	>973	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.66	18	>529	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.80	Horz(CT)	0.21	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.32	18	>999	240	Weight: 321 lb	FT = 10%

LUMBER

2x4 SPF No.2 *Except* 1-4:2x6 SP DSS, TOP CHORD

4-6:2x4 SPF 2100F 1.8E

BOT CHORD 2x6 SP 2400F 2.0E *Except* 20-3:2x4 SPF No 2

WEBS 2x4 SPF 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 (2-10-9 max.): 4-9.

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

bracing, Except:

6-0-0 oc bracing: 2-20.

REACTIONS (lb/size) 2=2300/0-3-8, 12=2268/0-3-8

Max Horiz 2=45 (LC 7)

Max Uplift 2=-394 (LC 5), 12=-416 (LC 4)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD

1-2=0/6, 2-3=-1448/281, 3-4=-6550/1252,

4-5=-10211/2072, 5-7=-9682/1980, 7-8=-6264/1290, 8-9=-6268/1292,

9-10=-3723/736, 10-11=0/32,

10-12=-2192/415

2-20=-165/20, 3-20=-33/273, BOT CHORD

3-19=-1157/6085, 18-19=-1164/6173, 16-17=-152/779, 14-16=-1435/7224,

13-14=-617/3293, 12-13=-127/594

17-18=0/214, 5-18=-412/235, 4-19=-65/806, 4-18=-954/4257, 16-18=-1302/6544, 7-18=-534/2525, 7-16=-885/351,

7-14=-1060/203, 8-14=-724/332, 9-14=-684/3252, 9-13=0/163,

10-13=-547/2725

NOTES

WEBS

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 - Top chords connected as follows: 2x6 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc. Web connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 394 lb uplift at joint 2 and 416 lb uplift at joint 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.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Use Simpson Strong-Tie TJC37 (6 nail 90-150) or equivalent at 3-11-8 from the left end to connect truss (es) to back face of bottom chord, skewed 33.7 deg.to the right, sloping 0.0 deg. down.

- 12) Use Simpson Strong-Tie TJC37 (4 nail, 30-90) or equivalent at 25-7-8 from the left end to connect truss (es) to back face of bottom chord, skewed 33.7 deg.to the left, sloping 0.0 deg. down.
- 13) Fill all nail holes where hanger is in contact with lumber.
- 14) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-3=-70, 3-4=-70, 4-9=-70, 9-10=-70,

10-11=-70, 2-20=-20, 3-18=-20, 12-17=-20

Concentrated Loads (lb)

Vert: 18=-35 (B), 5=-83 (B), 19=-240 (B), 13=-224 (B), 21=-76 (B), 22=-76 (B), 23=-83 (B), 24=-83 (B), 25=-83 (B), 26=-83 (B), 27=-83 (B), 28=-83 (B), 29=-83 (B), 30=-83 (B), 31=-49 (B), 32=-49 (B), 33=-35 (B), 34=-35 (B), 35=-35 (B), 36=-35 (B),

37=-35 (B), 38=-35 (B), 39=-35 (B), 40=-35 (B)



January 27,2022

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 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



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	J4	Jack-Closed Supported Gable	2	1	Job Reference (optional)	149889846

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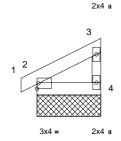
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6 T









1-6-0

Scale = 1:27.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 5 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-6-0 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 2=93/1-6-0, 4=59/1-6-0

Max Horiz 2=39 (LC 5)

Max Uplift 2=-14 (LC 8), 4=-18 (LC 8) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-6/0, 2-3=-43/21, 3-4=-45/26

BOT CHORD 2-4=-14/10

NOTES

FORCES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; 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.
- 3) 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 4 and 14 lb uplift at joint 2.

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

LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	J5	Jack-Closed	2	1	Job Reference (optional)	149889847

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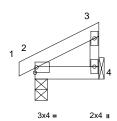
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6 T

2x4 II





1-6-0

Scale = 1:27.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.02	Vert(LL)	0.00	2-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	2-4	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 5 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

1-6-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (lb/size) 2=94/0-3-8, 4=57/ Mechanical

Max Horiz 2=39 (LC 5)

Max Uplift 2=-15 (LC 8), 4=-17 (LC 8)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD 1-2=-6/0, 2-3=-43/21, 3-4=-44/25

BOT CHORD 2-4=-14/10

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 17 lb uplift at joint 4 and 15 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



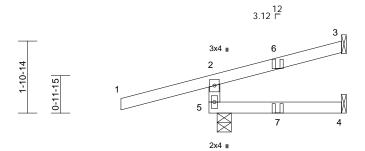
Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	J6	Jack-Open Girder	2	1	Job Reference (optional)	149889848

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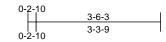
1-10-14







NAILED



Scale = 1:30.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.01	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	-0.01	4-5	>999	240	Weight: 12 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x4 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-1-6 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 3=67/ Mechanical, 4=15/

Mechanical, 5=386/0-4-8

Max Horiz 5=58 (LC 4)

Max Uplift 3=-37 (LC 8), 5=-157 (LC 4)

Max Grav 3=67 (LC 1), 4=56 (LC 3), 5=386

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-337/174, 1-2=0/44, 2-3=-44/11

BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 157 lb uplift at joint 5 and 37 lb uplift at joint 3.
- 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.

- 7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15,

Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-2=-70, 2-3=-70, 4-5=-20

Concentrated Loads (lb)

Vert: 7=2 (F)



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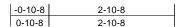
January 27,2022

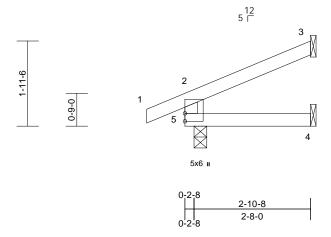


Ī	Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
	B220019	J7	Jack-Open	5	1	Job Reference (optional)	149889849

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Page: 1





Scale = 1:26.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	вс	0.06	Vert(CT)	-0.01	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 8 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x4 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-10-8 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (lb/size) 3=78/ Mechanical, 4=28/

Mechanical, 5=205/0-3-8

Max Horiz 5=53 (LC 8)

Max Uplift 3=-43 (LC 8), 5=-31 (LC 8)

Max Grav 3=78 (LC 1), 4=49 (LC 3), 5=205

FORCES (lb) - Maximum Compression/Maximum

Tension

2-5=-180/57, 1-2=0/27, 2-3=-46/23

BOT CHORD 4-5=0/0

NOTES

TOP CHORD

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 5 and 43 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

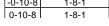




Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	J8	Jack-Open	2	1	Job Reference (optional)	149889850

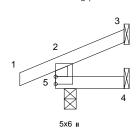
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-0-10-8 1-8-1



5 T







Scale = 1:28.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 5 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x4 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-8-1 oc purlins, except end verticals. BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (lb/size) 3=34/ Mechanical, 4=10/

Mechanical, 5=164/0-3-8

Max Horiz 5=37 (LC 5)

Max Uplift 3=-24 (LC 8), 5=-34 (LC 4)

Max Grav 3=34 (LC 1), 4=27 (LC 3), 5=164

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

2-5=-143/46, 1-2=0/27, 2-3=-28/9

TOP CHORD BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 5 and 24 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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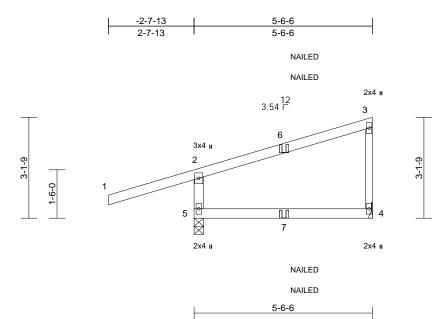


16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	J9	Diagonal Hip Girder	2	1	Job Reference (optional)	149889851

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.03	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.06	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.02	4-5	>999	240	Weight: 19 lb	FT = 10%

LUMBER

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

2x4 SPF No.2 *Except* 3-4:2x3 SPF No.2 WEBS

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) 4=187/ Mechanical, 5=487/0-3-8

Max Horiz 5=133 (LC 5)

Max Uplift 4=-54 (LC 5), 5=-190 (LC 4) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-429/217, 1-2=0/55, 2-3=-116/19,

3-4=-137/68

BOT CHORD 4-5=-39/50

NOTES

FORCES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 190 lb uplift at joint 5 and 54 lb uplift at joint 4.
- 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.
- "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.

8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15,

Plate Increase=1.15 Uniform Loads (lb/ft)

Vert: 1-2=-70, 2-3=-70, 4-5=-20

Concentrated Loads (lb)

Vert: 7=-3 (F)

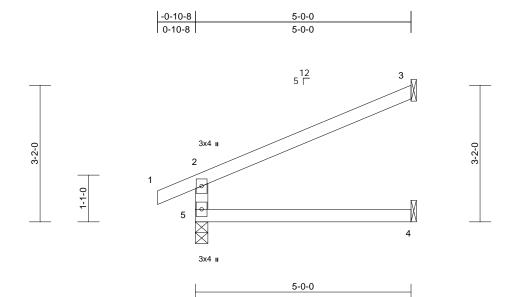






Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	J10	Jack-Open	7	1	Job Reference (optional)	149889852

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Scale = 1:26.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.02	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.06	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.04	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.03	4-5	>999	240	Weight: 14 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x4 SPF No.2 WEBS

BRACING

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

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

bracing.

REACTIONS (lb/size) 3=150/ Mechanical, 4=58/

Mechanical, 5=295/0-3-8

Max Horiz 5=85 (LC 8)

Max Uplift 3=-80 (LC 8), 5=-34 (LC 8)

Max Grav 3=150 (LC 1), 4=91 (LC 3), 5=295

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-256/81, 1-2=0/27, 2-3=-80/45

BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 5 and 80 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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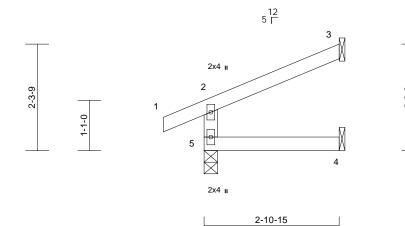


Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	J11	Jack-Open	2	1	Job Reference (optional)	149889853

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-0-10-8	2-10-15
0-10-8	2-10-15



Scale = 1:24.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.01	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 9 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x4 SPF 2400F 2.0E WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-10-15 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (lb/size) 3=80/ Mechanical, 4=29/

Mechanical, 5=207/0-3-8

Max Horiz 5=58 (LC 5)

Max Uplift 3=-47 (LC 8), 5=-26 (LC 4)

Max Grav 3=80 (LC 1), 4=50 (LC 3), 5=207

FORCES (lb) - Maximum Compression/Maximum

Tension

2-5=-181/54, 1-2=0/27, 2-3=-47/23

BOT CHORD 4-5=0/0

NOTES

TOP CHORD

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 5 and 47 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



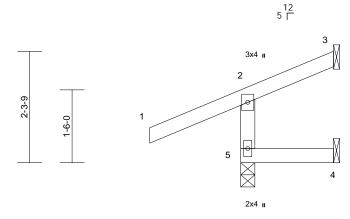
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Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	J12	Jack-Open	1	1	Job Reference (optional)	149889854

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Scale = 1:23.7

1-10-15

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 8 lb	FT = 10%

LUMBER

LOAD CASE(S) Standard

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x4 SPF 2400F 2.0E WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-10-15 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (lb/size) 3=1/ Mechanical, 4=-4/ Mechanical,

5=302/0-3-8

Max Horiz 5=65 (LC 5)

3=-23 (LC 8), 4=-6 (LC 5), 5=-74 Max Uplift

(LC 4)

Max Grav 3=8 (LC 19), 4=27 (LC 3), 5=302

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

2-5=-263/90, 1-2=0/54, 2-3=-47/2

TOP CHORD BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 74 lb uplift at joint 5, 6 lb uplift at joint 4 and 23 lb uplift at joint 3.
- 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.



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Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	J13	Jack-Open	1	1	Job Reference (optional)	149889855

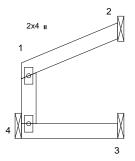
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12 5 Г







2x4 II

1-10-15

Scale = 1:22.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	0.00	3-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	3-4	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	2	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	3-4	>999	240	Weight: 6 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x4 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-10-15 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (lb/size) 2=59/ Mechanical, 3=20/

Mechanical, 4=79/ Mechanical

Max Horiz 4=47 (LC 5)

Max Uplift 2=-37 (LC 8), 3=-4 (LC 5) Max Grav

2=59 (LC 1), 3=34 (LC 3), 4=79

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-4=-64/14, 1-2=-29/18

BOT CHORD 3-4=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 2 and 4 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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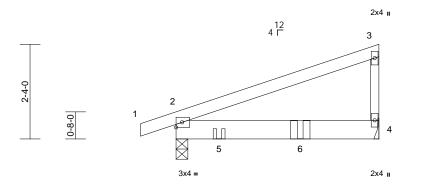


Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	J14	Jack-Closed Girder	1	1	Job Reference (optional)	149889856

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Page: 1





5-0-0

HUS26

Scale = 1:28.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	-0.08	2-4	>750	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.14	2-4	>409	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P		Wind(LL)	0.06	2-4	>886	240	Weight: 20 lb	FT = 10%

NAILED

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x6 SP DSS 2x3 SPF No.2 WEBS

BRACING

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

BOT CHORD Rigid ceiling directly applied or 4-10-2 oc

bracing.

REACTIONS (lb/size) 2=894/0-3-8, 4=1097/ Mechanical

Max Horiz 2=85 (LC 5)

Max Uplift 2=-201 (LC 4), 4=-248 (LC 8) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=0/1, 2-3=-77/47, 3-4=-159/74

BOT CHORD 2-4=-27/21

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 248 lb uplift at joint 4 and 201 lb uplift at joint 2.
- 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.

- 7) Use Simpson Strong-Tie HUS26 (14-10d Girder, 6-10d Truss, Single Ply Girder) or equivalent at 3-0-12 from the left end to connect truss(es) to back face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
- Fill all nail holes where hanger is in contact with lumber.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15,

Plate Increase=1.15 Uniform Loads (lb/ft)

Vert: 1-3=-70, 2-4=-20 Concentrated Loads (lb)

Vert: 5=-60 (B), 6=-1432 (B)





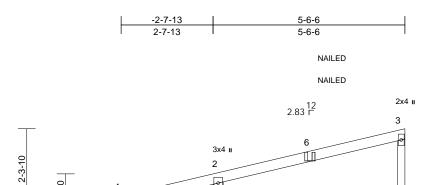
Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	J15	Diagonal Hip Girder	1	1	Job Reference (optional)	149889857

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2-3-10

2x4 II

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5

2x4 II

NAILED

NAILED

5-6-6

Scale = 1:33.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	-0.03	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.06	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	-0.02	4-5	>999	240	Weight: 18 lb	FT = 10%

LUMBER

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

2x4 SPF No.2 *Except* 3-4:2x3 SPF No.2 WEBS

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) 4=187/ Mechanical, 5=487/0-3-8

Max Horiz 5=95 (LC 5)

Max Uplift 4=-34 (LC 8), 5=-187 (LC 4) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-428/217, 1-2=0/45, 2-3=-107/11,

3-4=-137/63

BOT CHORD 4-5=-26/58

NOTES

FORCES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 187 lb uplift at joint 5 and 34 lb uplift at joint 4.
- 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.
- "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.

8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15,

Plate Increase=1.15 Uniform Loads (lb/ft)

Vert: 1-2=-70, 2-3=-70, 4-5=-20

Concentrated Loads (lb)

Vert: 7=-3 (B)



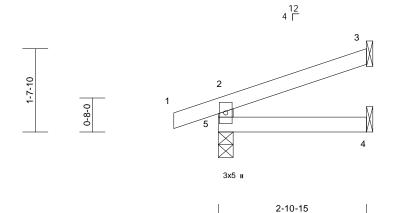


Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	J16	Jack-Open	1	1	Job Reference (optional)	149889858

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries. Inc. Tue Jan 25 16:23:12 ID:i33?pyraYLKE7WJBdWeh_Tz1kvf-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

0 40 0	2 40 45
-0-10-8	2-10-15
0-10-8	2-10-15



Scale = 1:22.6

			-									
Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.01	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 8 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x4 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-10-15 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (lb/size) 3=80/ Mechanical, 4=29/

Mechanical, 5=207/0-3-8

Max Horiz 5=48 (LC 4)

Max Uplift 3=-39 (LC 8), 5=-61 (LC 4)

Max Grav 3=80 (LC 1), 4=50 (LC 3), 5=207

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-181/84, 1-2=0/23, 2-3=-37/19

BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 61 lb uplift at joint 5 and 39 lb uplift at joint 3.
- 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



January 27,2022





Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	J17	Jack-Open	1	1	Job Reference (optional)	149889859

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries. Inc. Tue Jan 25 16:23:12 ID:bqlWfJu4cZqgc7cysMjd8Jz1kvb-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

-1-10-8	1-10-15
1-10-8	1-10-15



2x4 II

1-10-15

Scale = 1:21.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 7 lb	FT = 10%

LUMBER

LOAD CASE(S) Standard

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x4 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-10-15 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (lb/size) 3=2/ Mechanical, 4=-5/ Mechanical,

5=302/0-3-8

Max Horiz 5=48 (LC 4)

3=-14 (LC 8), 4=-5 (LC 1), 5=-130 Max Uplift

(LC 4)

Max Grav 3=5 (LC 19), 4=26 (LC 3), 5=302

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-262/137, 1-2=0/45, 2-3=-38/1

BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 130 lb uplift at joint 5, 5 lb uplift at joint 4 and 14 lb uplift at joint 3.
- 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.



January 27,2022

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 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

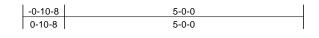
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

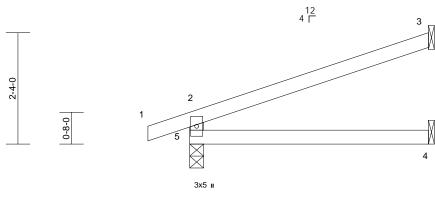


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Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	J18	Jack-Open	3	1	Job Reference (optional)	149889860

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries. Inc. Tue Jan 25 16:23:12 ID:XDQG3?vK7B4OrRmLznl5Dkz1kvZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1





5-0-0 Scale = 1:24.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.02	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.05	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.02	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.02	4-5	>999	240	Weight: 13 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x4 SPF No.2 WEBS

BRACING

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

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

bracing.

REACTIONS (lb/size) 3=150/ Mechanical, 4=58/

Mechanical, 5=295/0-3-8

Max Horiz 5=77 (LC 4)

Max Uplift 3=-69 (LC 8), 5=-71 (LC 4)

Max Grav 3=150 (LC 1), 4=90 (LC 3), 5=295

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-257/113, 1-2=0/23, 2-3=-64/37

BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 71 lb uplift at joint 5 and 69 lb uplift at joint 3.
- 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



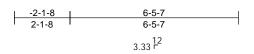
January 27,2022



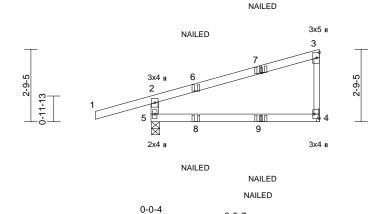
Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	J19	Diagonal Hip Girder	2	1	Job Reference (optional)	149889861

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Page: 1



NAILED



Scale = 1:44.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	-0.06	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.12	4-5	>630	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.02	4-5	>999	240	Weight: 20 lb	FT = 10%

6-5-7 6-5-3

LUMBER

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2

2x4 SPF No.2 *Except* 3-4:2x3 SPF No.2 WEBS

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) 4=248/ Mechanical, 5=463/0-3-11

Max Horiz 5=116 (LC 7)

Max Uplift 4=-58 (LC 8), 5=-164 (LC 4) **FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-412/202, 1-2=0/43, 2-3=-147/17,

3-4=-181/85

BOT CHORD 4-5=-36/59

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 164 lb uplift at joint 5 and 58 lb uplift at joint 4.
- 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.
- "NAILED" indicates 2-12d (0.148"x3.25") toe-nails per NDS guidlines.

In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15,

Plate Increase=1.15 Uniform Loads (lb/ft)

Vert: 1-2=-70, 2-3=-70, 4-5=-20

0-0-4

Concentrated Loads (lb)

Vert: 8=4 (B), 9=2 (F=3, B=-1)

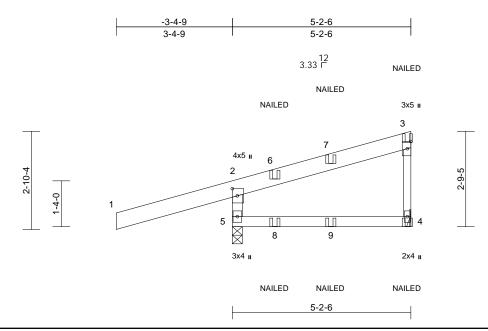
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Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	J20	Diagonal Hip Girder	1	1	Job Reference (optional)	149889862

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Page: 1



Scale = 1:33.5

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

					-							
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	0.02	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.03	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	-0.01	4-5	>999	240	Weight: 29 lb	FT = 10%

LUMBER

TOP CHORD 2x6 SP DSS

BOT CHORD 2x4 SPF 2400F 2.0E 2x4 SPF No.2 *Except* 3-4:2x3 SPF No.2 WEBS

BRACING

TOP CHORD

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

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

bracing.

REACTIONS (lb/size) 4=31/ Mechanical, 5=964/0-3-8

Max Horiz 5=118 (LC 7)

Max Uplift 4=-108 (LC 21), 5=-330 (LC 4)

Max Grav 4=224 (LC 24), 5=964 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

2-5=-897/351, 1-2=-11/133, 2-3=-105/21,

TOP CHORD 3-4=-145/123

BOT CHORD 4-5=-54/44

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 330 lb uplift at joint 5 and 108 lb uplift at joint 4.
- 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.

- "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 260 lb down and 47 lb up at -2-1-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1 15

Uniform Loads (lb/ft) Vert: 1-2=-70, 2-3=-70, 4-5=-20

Concentrated Loads (lb)

Vert: 1=-250, 3=-65 (B), 4=-27 (B), 7=29 (F), 8=11



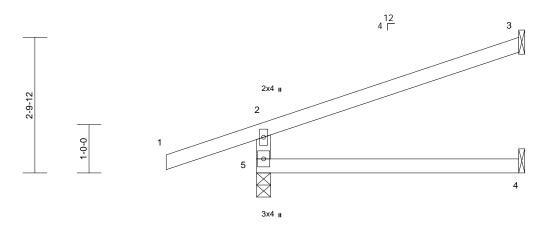




Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	J21	Jack-Open	21	1	Job Reference (optional)	149889863

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Scale = 1:23.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	-0.03	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.07	4-5	>863	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.03	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.03	4-5	>999	240	Weight: 16 lb	FT = 10%

5-5-4

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x4 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-5-4 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (lb/size) 3=153/ Mechanical, 4=55/

Mechanical, 5=404/0-3-8

Max Horiz 5=95 (LC 4)

Max Uplift 3=-75 (LC 8), 5=-122 (LC 4)

Max Grav 3=153 (LC 1), 4=96 (LC 3), 5=404

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-354/165, 1-2=0/45, 2-3=-72/37

BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 122 lb uplift at joint 5 and 75 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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January 27,2022

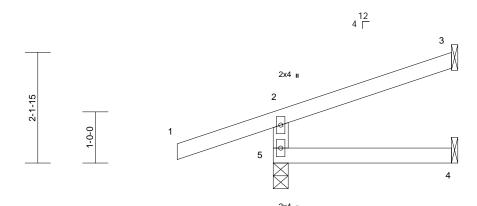




Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	J22	Jack-Open	2	1	Job Reference (optional)	149889864

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-1-10-8 3-5-12 1-10-8 3-5-12



3-5-12

Scale = 1:22.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.01	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 11 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x4 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-5-12 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 3=80/ Mechanical, 4=24/

Mechanical, 5=332/0-3-8

Max Horiz 5=69 (LC 4)

Max Uplift 3=-44 (LC 8), 5=-119 (LC 4)

Max Grav 3=80 (LC 1), 4=58 (LC 3), 5=332

FORCES (lb) - Maximum Compression/Maximum

Tension

2-5=-291/142, 1-2=0/45, 2-3=-48/18

TOP CHORD BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 119 lb uplift at joint 5 and 44 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



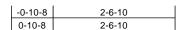
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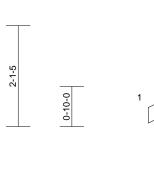


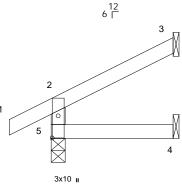
Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	J23	Jack-Open	2	1	Job Reference (optional)	149889865

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries. Inc. Tue Jan 25 16:23:13 ID:1DaFKlaDNwqxedC?Q3_GJbz1lkw-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1









2-6-10

Scale = 1:24.1

Plate Offsets (X, Y): [5:0-5-9,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 8 lb	FT = 10%

LUMBER LOAD CASE(S) Standard

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 2x4 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-6-10 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 3=67/ Mechanical, 4=23/

Mechanical, 5=192/0-3-8

Max Horiz 5=57 (LC 8)

Max Uplift 3=-43 (LC 8), 5=-23 (LC 8) Max Grav 3=67 (LC 1), 4=43 (LC 3), 5=192

(LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-5=-169/48, 1-2=0/32, 2-3=-48/22

BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 23 lb uplift at joint 5 and 43 lb uplift at joint 3.
- 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.





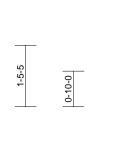


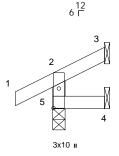
Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	J24	Jack-Open	4	1	Job Reference (optional)	149889866

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries. Inc. Tue Jan 25 16:23:13 ID:RoFOzJd6frCWV4wa5BYzxDz1lkt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

-0-10-8 1-2-10 0-10-8 1-2-10







1-2-10

Scale = 1:27.1

Plate Offsets (X, Y): [5:0-5-9,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	0.00	5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 5 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x4 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-2-10 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size)

3=11/ Mechanical, 4=2/ Mechanical, 5=154/0-3-8

Max Horiz 5=36 (LC 5)

Max Uplift 3=-18 (LC 8), 4=-2 (LC 5), 5=-23

(LC 8)

Max Grav 3=12 (LC 15), 4=18 (LC 3), 5=154

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-134/36, 1-2=0/32, 2-3=-28/3

BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 23 lb uplift at joint 5, 2 lb uplift at joint 4 and 18 lb uplift at joint 3.

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

OF MISS SCOTT M. SEVIER PE-2001018807 SSIONAL

January 27,2022

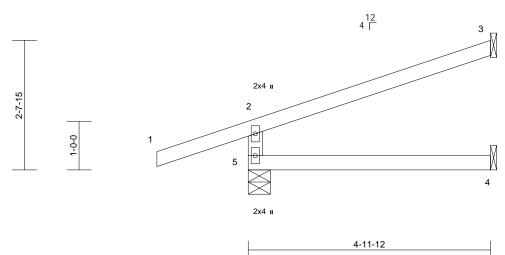


Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	J25	Jack-Open	1	1	Job Reference (optional)	149889867

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Jan 25 16:23:14

Page: 1





Scale = 1:23.7

	-	1		1	-	·	-					-
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	-0.02	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.05	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.02	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.02	4-5	>999	240	Weight: 15 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x4 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-11-12 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (lb/size) 3=137/ Mechanical, 4=48/

Mechanical, 5=386/0-5-8

Max Horiz 5=89 (LC 4)

Max Uplift 3=-68 (LC 8), 5=-121 (LC 4)

Max Grav 3=137 (LC 1), 4=87 (LC 3), 5=386

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-339/159, 1-2=0/45, 2-3=-66/33

BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 121 lb uplift at joint 5 and 68 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

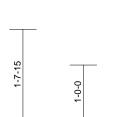


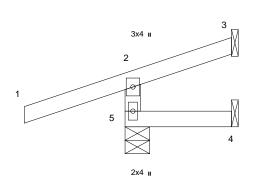


Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	J26	Jack-Open	1	1	Job Reference (optional)	149889868

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries. Inc. Tue Jan 25 16:23:14 ID:GycfDNhtFhzfD?OkSSfNBUz1lkn-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f









Page: 1

Scale = 1:21.4

1-11-12

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 8 lb	FT = 10%

LUMBER

LOAD CASE(S) Standard

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x4 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-11-12 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (lb/size) 3=7/ Mechanical, 4=-3/ Mechanical,

5=302/0-5-8

Max Horiz 5=49 (LC 4) 3=-16 (LC 8), 4=-3 (LC 1), 5=-128 Max Uplift

(LC 4) Max Grav 3=7 (LC 1), 4=28 (LC 3), 5=302

(LC 1)

(lb) - Maximum Compression/Maximum

Tension

2-5=-262/136, 1-2=0/45, 2-3=-38/1

TOP CHORD BOT CHORD 4-5=0/0

NOTES

FORCES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 128 lb uplift at joint 5, 3 lb uplift at joint 4 and 16 lb uplift at joint 3.
- 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.



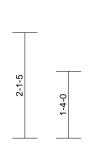


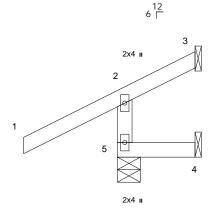
Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	J27	Jack-Open	1	1	Job Reference (optional)	149889869

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries. Inc. Tue Jan 25 16:23:14 ID:gXlosOklYcLE4T6J7aC4o6z1lkk-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1







1-6-10

Scale = 1:23

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 7 lb	FT = 10%

LUMBER

LOAD CASE(S) Standard

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x4 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-6-10 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (lb/size)

3=-30/ Mechanical, 4=-10/ Mechanical, 5=307/0-5-8

Max Horiz 5=60 (LC 5)

3=-30 (LC 1), 4=-10 (LC 16), 5=-53 Max Uplift

(LC 8)

Max Grav 3=10 (LC 4), 4=20 (LC 3), 5=307

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

2-5=-269/74, 1-2=0/63, 2-3=-57/4

TOP CHORD BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 53 lb uplift at joint 5, 10 lb uplift at joint 4 and 30 lb uplift at joint 3.
- 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.



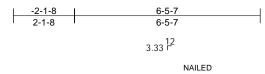
January 27,2022

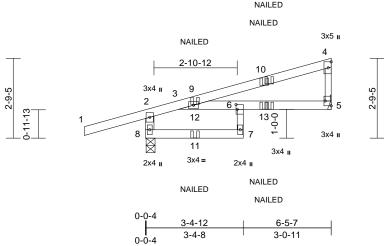


Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	J28	Diagonal Hip Girder	1	1	Job Reference (optional)	149889870

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Page: 1





Scale = 1:40

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	-0.05	5-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.11	5-6	>708	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.03	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.05	5-6	>999	240	Weight: 22 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except* 7-6:2x3 SPF No.2 2x4 SPF No.2 *Except* 4-5:2x3 SPF No.2 WEBS

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) 5=264/ Mechanical, 8=473/0-3-11

Max Horiz 8=99 (LC 5)

Max Uplift 5=-66 (LC 8), 8=-166 (LC 4) **FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-8=-440/184, 1-2=0/43, 2-3=-182/24,

3-4=-168/20, 4-5=-159/68

BOT CHORD 7-8=-50/92, 6-7=0/60, 3-6=-8/29, 5-6=-31/99

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 166 lb uplift at joint 8 and 66 lb uplift at joint 5.
- 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.
- "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.

In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15,

Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-2=-70, 2-4=-70, 7-8=-20, 5-6=-20

Concentrated Loads (lb)

Vert: 11=4 (F), 13=-23 (F=-24, B=1)

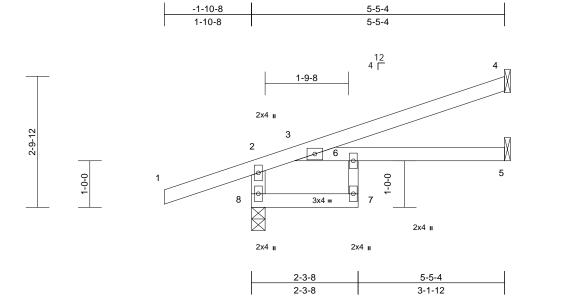
OF MISS SCOTT M. SEVIER NUMBER PE-2001018807 SSIONAL



Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	J29	Jack-Open	2	1	Job Reference (optional)	149889871

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Page: 1



Scale = 1:24.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	-0.03	5-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.08	5-6	>821	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.03	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.04	5-6	>999	240	Weight: 18 lb	FT = 10%

LUMBER LOAD CASE(S) Standard

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except* 7-6:2x3 SPF No.2

2x4 SPF No.2 WEBS **BRACING**

TOP CHORD

Structural wood sheathing directly applied or 5-5-4 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size)

4=146/ Mechanical, 5=69/ Mechanical, 8=423/0-3-8

Max Horiz 8=95 (LC 4)

Max Uplift 4=-63 (LC 8), 8=-111 (LC 4) Max Grav 4=146 (LC 1), 5=104 (LC 3), 8=423

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-8=-396/134, 1-2=0/45, 2-3=-115/0,

3-4=-53/36

BOT CHORD 7-8=-39/39, 6-7=-1/39, 3-6=-39/39, 5-6=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 111 lb uplift at joint 8 and 63 lb uplift at joint 4.
- 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.

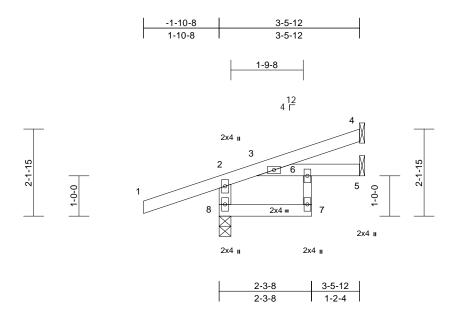




Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	J30	Jack-Open	1	1	Job Reference (optional)	149889872

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Jan 25 16:23:15 ID:UcYMrB_s8ZX1exNOUZ5XI2z1lli-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:28.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	0.00	7	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.01	7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	3-6	>999	240	Weight: 13 lb	FT = 10%

LOAD CASE(S) Standard

LUMBER TOP CHORD 2x4 SPF No.2

2x4 SPF No.2 *Except* 7-6:2x3 SPF No.2

BOT CHORD 2x4 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-5-12 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 4=80/ Mechanical, 5=35/

Mechanical, 8=347/0-3-8

Max Horiz 8=69 (LC 4)

Max Uplift 4=-35 (LC 8), 8=-110 (LC 4)

Max Grav 4=80 (LC 1), 5=73 (LC 3), 8=347

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-8=-315/126, 1-2=0/45, 2-3=-51/0,

3-4=-30/20

BOT CHORD 7-8=-10/20, 6-7=0/38, 3-6=-20/10, 5-6=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 110 lb uplift at joint 8 and 35 lb uplift at joint 4.
- 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.

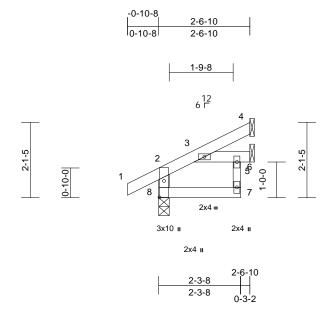




Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	J31	Jack-Open	1	1	Job Reference (optional)	149889873

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Page: 1



Scale = 1:32.3

Plate Offsets (X, Y): [8:0-5-9,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	0.00	3	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	0.00	3	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	3	>999	240	Weight: 10 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except* 7-6:2x3 SPF No.2

2x4 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-6-10 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size)

4=56/ Mechanical, 5=48/ Mechanical, 8=202/0-3-8

Max Horiz 8=57 (LC 8)

Max Uplift 4=-29 (LC 8), 5=-2 (LC 8), 8=-17

(LC 8)

Max Grav 4=56 (LC 1), 5=73 (LC 3), 8=202

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-8=-181/38, 1-2=0/32, 2-3=-61/0, 3-4=-24/21

BOT CHORD 7-8=-14/19, 6-7=0/41, 3-6=-19/14, 5-6=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 17 lb uplift at joint 8, 29 lb uplift at joint 4 and 2 lb uplift at joint 5.

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

OF MISS SCOTT M. SEVIER PE-200101880' SIONAL

January 27,2022





Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	J32	Jack-Open Girder	1	1	Job Reference (optional)	149889874

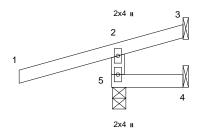
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3.33 ¹²







Page: 1

Scale = 1:26.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.27	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 7 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x4 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-7-12 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size)

3=-43/ Mechanical, 4=-20/ Mechanical, 5=175/0-3-11

Max Horiz 5=51 (LC 7)

3=-43 (LC 1), 4=-20 (LC 1), 5=-146 Max Uplift

(LC 6)

Max Grav 3=33 (LC 4), 4=17 (LC 4), 5=175

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-149/147, 1-2=-5/23, 2-3=-18/9

BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 146 lb uplift at joint 5, 20 lb uplift at joint 4 and 43 lb uplift at joint 3.
- 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.

- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 25 lb down and 9 lb up at -2-1-8, and 25 lb down and 9 lb up at -2-1-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15,

Plate Increase=1.15

Concentrated Loads (lb)

Vert: 1=-38 (F=-19, B=-19)

Trapezoidal Loads (lb/ft)

Vert: 1=0 (F=35, B=35)-to-2=-40 (F=15, B=15), 2=-3 (F=34, B=34)-to-3=-29 (F=21, B=21), 5=0 (F=10,

B=10)-to-4=-8 (F=6, B=6)



January 27,2022



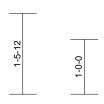
Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	J33	Jack-Open	1	1	Job Reference (optional)	149889875

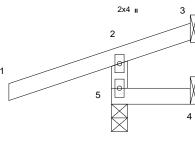
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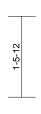
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12 4 Γ







2x4 ı

1-5-4

Scale = 1:21

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 6 lb	FT = 10%

LUMBER

LOAD CASE(S) Standard

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x4 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-5-4 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 3=-38/ Mechanical, 4=-16/

Mechanical, 5=311/0-3-8

Max Horiz 5=43 (LC 5)

3=-38 (LC 1), 4=-16 (LC 1), 5=-143 Max Uplift

(LC 4)

Max Grav 3=22 (LC 4), 4=16 (LC 3), 5=311

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

2-5=-269/145, 1-2=0/45, 2-3=-40/7

TOP CHORD BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 143 lb uplift at joint 5, 16 lb uplift at joint 4 and 38 lb uplift at joint 3.
- 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.





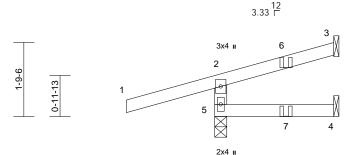
Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	J34	Jack-Open Girder	2	1	Job Reference (optional)	149889876

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Page: 1



NAILED



NAILED

2-10-7

Scale = 1:27.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 10 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x4 SPF No.2 WEBS

BRACING

Structural wood sheathing directly applied or TOP CHORD 3-5-0 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 3=44/ Mechanical, 4=6/

Mechanical, 5=345/0-3-8

Max Horiz 5=52 (LC 4)

Max Uplift 3=-28 (LC 8), 5=-146 (LC 4)

Max Grav 3=44 (LC 1), 4=44 (LC 3), 5=345

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-302/156, 1-2=0/43, 2-3=-39/7

BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 146 lb uplift at joint 5 and 28 lb uplift at joint 3.
- 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.

- 7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15,

Plate Increase=1.15 Uniform Loads (lb/ft)

Vert: 1-2=-70, 2-3=-70, 4-5=-20

Concentrated Loads (lb)

Vert: 7=4 (F)

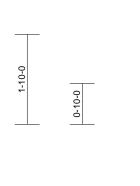
OF MISS SCOTT M. SEVIER NUMBER PE-2001018807 SSIONAL

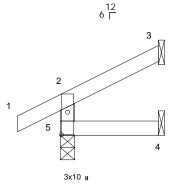


Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	J35	Jack-Open	3	1	Job Reference (optional)	149889877

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2-0-0

Scale = 1:23.5

Plate Offsets (X, Y): [5:0-5-9,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 7 lb	FT = 10%

LUMBER LOAD CASE(S) Standard

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 2x4 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

bracing.

REACTIONS (lb/size)

3=48/ Mechanical, 4=15/ Mechanical, 5=174/0-3-8

Max Horiz 5=47 (LC 8)

Max Uplift 3=-34 (LC 8), 5=-22 (LC 8) Max Grav 3=48 (LC 1), 4=33 (LC 3), 5=174

(LC 1)

(lb) - Maximum Compression/Maximum Tension

FORCES

TOP CHORD 2-5=-153/42, 1-2=0/32, 2-3=-39/16

BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 22 lb uplift at joint 5 and 34 lb uplift at joint 3.
- 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.



January 27,2022



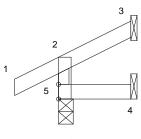
Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	J36	Jack-Open	1	1	Job Reference (optional)	149889878

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6 T







3x10 II

1-5-4

Scale = 1:22.9

	DEEL	in	(loc)	I/dofl	1./d	DIATES
l						

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 5 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-5-4 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (lb/size) 3=24/ Mechanical, 4=10/

Mechanical, 5=153/0-3-8

Max Horiz 5=38 (LC 5)

Max Uplift 3=-24 (LC 8), 5=-21 (LC 8)

Max Grav 3=24 (LC 1), 4=24 (LC 3), 5=153

FORCES (lb) - Maximum Compression/Maximum

Tension

2-5=-137/37, 1-2=0/31, 2-3=-31/7

BOT CHORD 4-5=0/0

NOTES

TOP CHORD

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 5 and 24 lb uplift at joint 3.
- 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



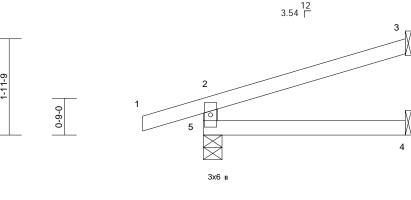
January 27,2022



Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	J37	Diagonal Hip Girder	2	1	Job Reference (optional)	149889879

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Jan 25 16:23:16 ID:zi19zGyGCSD3fcDziGLfY7yjciX-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

-1-2-14 4-1-7 1-2-14



4-1-7

Scale = 1:23.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	-0.02	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.01	4-5	>999	240	Weight: 11 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x4 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-1-7 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 3=80/ Mechanical, 4=24/

Mechanical, 5=144/0-4-9

Max Horiz 5=63 (LC 12)

Max Uplift 3=-48 (LC 12), 5=-92 (LC 6)

Max Grav 3=80 (LC 1), 4=60 (LC 3), 5=144

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-128/119, 1-2=-6/21, 2-3=-30/15

BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 92 lb uplift at joint 5 and 48 lb uplift at joint 3.
- 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.

- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 30 lb down and 11 lb up at -1-2-14, and 30 lb down and 11 lb up at -1-2-14 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15,

Plate Increase=1.15

Concentrated Loads (lb) Vert: 1=-46 (F=-23 B=-23)

Trapezoidal Loads (lb/ft)

Vert: 1=0 (F=35, B=35)-to-2=-24 (F=23, B=23), 2=-3

(F=34, B=34)-to-3=-72 (F=-1, B=-1), 5=0 (F=10,

B=10)-to-4=-21 (F=0, B=0)



Page: 1

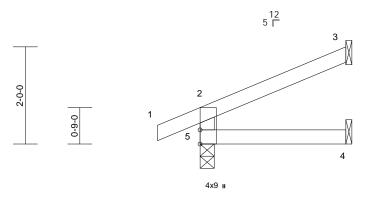
January 27,2022



Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	J38	Jack-Open	5	1	Job Reference (optional)	149889880

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries. Inc. Tue Jan 25 16:23:16 ID:8G8S8PgrcOJKP4zYsxQG6Hyjciu-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

-0-10-8	3-0-0
0-10-8	3-0-0



3-0-0

Scale = 1:23.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.01	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 9 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x4 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins, except end verticals.

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

bracing.

REACTIONS (lb/size) 3=83/ Mechanical, 4=30/

Mechanical, 5=210/0-3-8

Max Horiz 5=55 (LC 8)

Max Uplift 3=-45 (LC 8), 5=-32 (LC 8)

Max Grav 3=83 (LC 1), 4=52 (LC 3), 5=210

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-184/58, 1-2=0/27, 2-3=-48/24

BOT CHORD 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 4) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 5 and 45 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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January 27,2022



Ply Job Truss Truss Type Qtv Lot 111 RR 149889881 B220019 K1 Hip Girder 2 Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.43 S Jun 2 2021 Print: 8.430 S Jun 2 2021 MiTek Industries. Inc. Wed Jan 26 14:07:33 ID:_rnuX547n7qBzJofskZAvNyy77k-W8WaYR5URJADbRbcbrkoJwOXsIZSorMScTgkDkzreN9

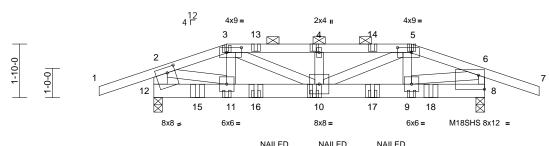
NAII FD



NAII FD

NAILED NAILED

NAII FD



NAILED HUS26 HUS26 NAILED HUS26 HUS26

HUS26 2-7-12 5-8-0 8-8-4 11-4-0 3-0-4 3-0-4 2-7-12 2-7-12

Scale = 1:39.5

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.08	9-10	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.14	9-10	>925	240	M18SHS	197/144
BCLL	0.0*	Rep Stress Incr	NO	WB	0.66	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.05	9-10	>999	240	Weight: 122 lb	FT = 10%

LUMBER

WEBS

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x6 SP 2400F 2.0E

2x4 SPF No.2 *Except* 12-2:2x6 SPF No.2,

8-6:2x3 SPF No.2

BRACING

BOT CHORD

Structural wood sheathing directly applied or TOP CHORD 4-9-10 oc purlins, except end verticals, and

2-0-0 oc purlins (4-1-8 max.): 3-5.

Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (lb/size) 8=3939/0-3-8, 12=4195/0-3-8

Max Horiz 12=-13 (LC 31)

Max Uplift 8=-404 (LC 5), 12=-379 (LC 4)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown

TOP CHORD 2-3=-5743/325, 3-13=-7780/426, 4-13=-7780/426, 4-14=-7780/426,

5-14=-7780/426, 5-6=-5993/407,

2-12=-3435/312, 6-8=-3546/358

12-15=-36/917, 11-15=-36/917,

BOT CHORD 11-16=-255/5456, 10-16=-255/5456,

10-17=-346/5711, 9-17=-346/5711,

9-18=-20/431, 8-18=-20/431

WEBS 3-11=-7/652, 5-9=-75/833, 2-11=-291/4747,

6-9=-356/5415, 5-10=-39/2284,

3-10=-135/2558

NOTES

2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc, 2x3 - 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-8-0 oc

Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for 3) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 379 lb uplift at joint 12 and 404 lb uplift at joint 8.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-6-0 from the left end to 9-6-0 to connect truss(es) to back face of bottom chord.
- 13) Fill all nail holes where hanger is in contact with lumber.
- 14) "NAILED" indicates 2-12d (0.148"x3.25") toe-nails per NDS guidlines.

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft)

> Vert: 1-2=-70, 2-3=-70, 3-5=-70, 5-6=-70, 6-7=-70, 8-12=-20

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Concentrated Loads (lb)

Vert: 11=10 (F), 9=10 (F), 10=-1374 (F=1, B=-1375), 15=-1377 (B), 16=-1374 (F=1, B=-1375), 17=-1376 (F=1, B=-1377), 18=-1377 (B)



January 27,2022

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

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

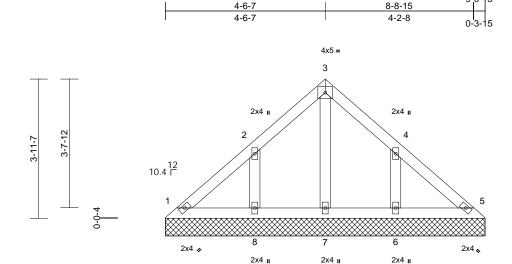


16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	LAY1	Lay-In Gable	1	1	Job Reference (optional)	149889882

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Jan 25 16:23:17 ID:IvLwo6q9Kz4uE6hpNx_xrPz1Iux-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:32.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 31 lb	FT = 10%

9-0-15

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x4 SPF No.2 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (lb/size) 1=94/9-0-15, 5=94/9-0-15, 6=224/9-0-15, 7=116/9-0-15,

8=224/9-0-15

Max Horiz 1=-94 (LC 4)

Max Uplift 1=-10 (LC 4), 6=-119 (LC 9),

8=-120 (LC 8)

Max Grav 1=103 (LC 16), 5=94 (LC 1), 6=242

(LC 16), 7=124 (LC 18), 8=242 (LC

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-93/74, 2-3=-86/80, 3-4=-79/64, TOP CHORD 4-5=-77/54

BOT CHORD 1-8=-34/74, 7-8=-34/74, 6-7=-34/74,

5-6=-34/74

WFRS 3-7=-89/0, 2-8=-188/142, 4-6=-187/141

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.

- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 10 lb uplift at joint 1, 120 lb uplift at joint 8 and 119 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

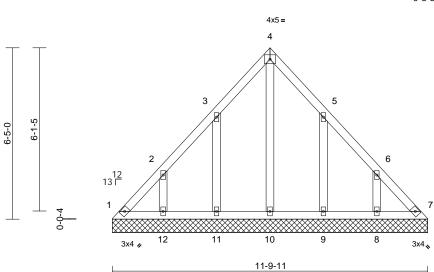




Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	LAY2	Lay-In Gable	1	1	Job Reference (optional)	149889883

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Jan 25 16:23:17 ID:bFGaGVvYg7yuaBk9Hvcaduz1luq-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f





Scale = 1:43.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 51 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x4 SPF No.2 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (lb/size)

1=78/11-9-11, 7=78/11-9-11, 8=178/11-9-11, 9=188/11-9-11, 10=119/11-9-11, 11=188/11-9-11,

12=178/11-9-11

Max Horiz 1=162 (LC 5)

Max Uplift 1=-57 (LC 6), 7=-30 (LC 7), 8=-129 (LC 9), 9=-135 (LC 9), 11=-136 (LC

8), 12=-129 (LC 8)

Max Grav 1=137 (LC 17), 7=124 (LC 18),

8=203 (LC 16), 9=216 (LC 16), 10=155 (LC 18), 11=217 (LC 15),

12=202 (LC 15)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-200/135, 2-3=-130/89, 3-4=-104/121,

4-5=-89/99, 5-6=-103/53, 6-7=-177/99

1-12=-68/145, 11-12=-68/145, **BOT CHORD**

10-11=-68/145, 9-10=-68/145, 8-9=-68/145,

7-8=-68/145

4-10=-115/8, 3-11=-178/161, 2-12=-158/147, WEBS

5-9=-177/160, 6-8=-158/147

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; 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.
- 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 57 lb uplift at joint 1, 30 lb uplift at joint 7, 136 lb uplift at joint 11, 129 lb uplift at joint 12, 135 lb uplift at joint 9 and 129 lb uplift at
- 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



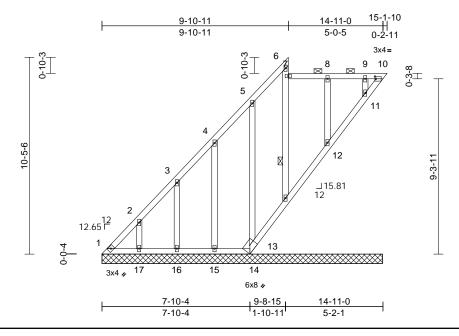
Page: 1



Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	LAY3	Lay-In Gable	1	1	Job Reference (optional)	149889884

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries. Inc. Tue Jan 25 16:23:17 ID:E62zwETOrGIM5FF?zaRNUbz1lu6-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:61.2

Plate Offsets (X, Y): [10:0-0-12,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.17	Horiz(TL)	-0.01	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 79 lb	FT = 10%

LUMBER TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x4 SPF No.2 WEBS

OTHERS 2x4 SPF 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.): 7-13, 7-10. Except:

1 Row at midpt 7-13

BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc

bracing, Except: 6-0-0 oc bracing: 10-11.

1=62/14-10-11, 10=30/14-10-11, REACTIONS (lb/size)

11=145/14-10-11, 12=219/14-10-11, 13=141/14-10-11,

14=172/14-10-11,

15=182/14-10-11,

16=179/14-10-11, 17=183/14-10-11

Max Horiz 1=433 (LC 8)

Max Uplift 1=-102 (LC 6), 10=-78 (LC 8),

11=-29 (LC 9), 12=-83 (LC 9), 14=-113 (LC 8), 15=-126 (LC 8),

16=-123 (LC 8), 17=-126 (LC 8) Max Grav 1=353 (LC 8), 10=48 (LC 15),

11=145 (LC 1), 12=219 (LC 1) 13=176 (LC 17), 14=191 (LC 15), 15=206 (LC 15), 16=202 (LC 15),

17=207 (LC 15)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-503/202, 2-3=-384/156, 3-4=-259/110, 4-5=-131/72, 5-6=-63/29, 7-13=-115/39,

6-7=-51/28, 7-8=-30/61, 8-9=-30/61, 9-10=-31/63

WEBS

BOT CHORD 1-17=-61/27, 16-17=-61/27, 15-16=-61/27, 14-15=-61/28, 13-14=-65/32, 12-13=-173/94,

11-12=-116/63, 10-11=-111/49

2-17=-161/144, 3-16=-163/149, 4-15=-165/152, 5-14=-161/139, 8-12=-168/73, 9-11=-111/47

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; 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.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 102 lb uplift at joint 1, 78 lb uplift at joint 10, 113 lb uplift at joint 14, 126 Ib uplift at joint 17, 123 lb uplift at joint 16, 126 lb uplift at joint 15, 83 lb uplift at joint 12 and 29 lb uplift at joint 11.
- 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



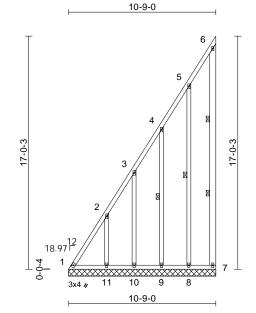




Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	LAY4	Lay-In Gable	3	1	Job Reference (optional)	149889885

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Jan 25 16:23:18 ID:M8Nkol1tnigiEUL1EynOuVz1ltN-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:84.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.17	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 103 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x6 SPF No.2 WEBS 2x4 SPF No.2 OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-6-9 oc purlins, except end verticals.

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

bracing.

WEBS 1 Row at midpt 4-9, 5-8 **WEBS** 2 Rows at 1/3 pts 6-7

REACTIONS (lb/size)

1=93/10-9-0, 7=67/10-9-0, 8=177/10-9-0, 9=187/10-9-0,

10=161/10-9-0, 11=240/10-9-0

Max Horiz 1=662 (LC 8)

Max Uplift 1=-367 (LC 6), 7=-94 (LC 8),

8=-224 (LC 8), 9=-249 (LC 8), 10=-213 (LC 8), 11=-316 (LC 8)

1=923 (LC 8), 7=95 (LC 15), 8=245 Max Grav

(LC 15), 9=262 (LC 15), 10=226

(LC 15), 11=337 (LC 15)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-1109/524, 2-3=-808/376, 3-4=-584/278,

4-5=-335/164, 5-6=-100/66, 6-7=-79/99 **BOT CHORD** 1-11=-1/1, 10-11=-1/1, 9-10=-1/1, 8-9=-1/1,

7-8=-1/1

WEBS 2-11=-268/326, 3-10=-195/242,

4-9=-219/270, 5-8=-207/254

NOTES

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60

- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 367 lb uplift at joint 1, 94 lb uplift at joint 7, 316 lb uplift at joint 11, 213 lb uplift at joint 10, 249 lb uplift at joint 9 and 224 lb uplift
- 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



January 27,2022



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 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

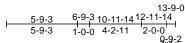
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

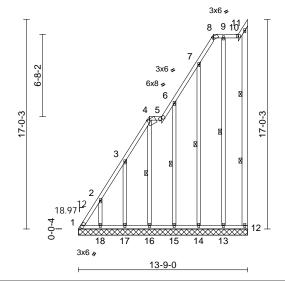


16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	LAY5	Lay-In Gable	1	1	Job Reference (optional)	149889886

Run: 8.43 S Oct 11 2021 Print: 8.430 S Oct 11 2021 MiTek Industries, Inc. Tue Jan 25 16:23:18 ID:JccCUEunICUmeEhUKe1pkGz1lsH-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f





Scale = 1:93.6

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.18	Horiz(TL)	0.00	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 134 lb	FT = 10%

II; Exp C; Enclosed; MWFRS (envelope) exterior zone;

Truss designed for wind loads in the plane of the truss

only. For studs exposed to wind (normal to the face),

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

on the bottom chord in all areas where a rectangle

chord live load nonconcurrent with any other live loads.

3-06-00 tall by 2-00-00 wide will fit between the bottom

Provide mechanical connection (by others) of truss to

bearing plate capable of withstanding 410 lb uplift at joint 1, 215 lb uplift at joint 18, 294 lb uplift at joint 17,

10) This truss is designed in accordance with the 2018

R802.10.2 and referenced standard ANSI/TPI 1.

11) Graphical purlin representation does not depict the size

or the orientation of the purlin along the top and/or

354 lb uplift at joint 16, 285 lb uplift at joint 14 and 51 lb

International Residential Code sections R502.11.1 and

* This truss has been designed for a live load of 20.0psf

Gable requires continuous bottom chord bearing.

Gable studs spaced at 2-0-0 oc.

chord and any other members.

see Standard Industry Gable End Details as applicable,

or consult qualified building designer as per ANSI/TPI 1.

Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat.

cantilever left and right exposed; end vertical left

exposed; Lumber DOL=1.60 plate grip DOL=1.60

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x6 SPF No.2 WEBS **OTHERS** 2x4 SPF No.2

BRACING

Structural wood sheathing directly applied or TOP CHORD 5-6-14 oc purlins, except end verticals, and

2-0-0 oc purlins (6-0-0 max.): 4-5, 8-10.

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

WEBS 1 Row at midpt 4-16, 6-15, 7-14, 9-13

WEBS 2 Rows at 1/3 pts 11-12

REACTIONS (lb/size)

1=52/13-9-0, 12=66/13-9-0, 13=181/13-9-0, 14=178/13-9-0, 15=188/13-9-0, 16=169/13-9-0,

17=186/13-9-0, 18=175/13-9-0 Max Horiz 1=650 (LC 8)

Max Uplift 1=-410 (LC 6), 13=-51 (LC 8),

14=-285 (LC 8), 16=-354 (LC 8), 17=-294 (LC 8), 18=-215 (LC 8)

Max Grav 1=955 (LC 8), 12=66 (LC 1), 13=181 (LC 1), 14=268 (LC 15),

15=188 (LC 1), 16=255 (LC 15), 17=279 (LC 15), 18=240 (LC 15)

4-5=-301/142, 5-6=-330/165, 6-7=-348/184,

15-16=-1/1, 14-15=-1/1, 13-14=-1/1,

12-13=-1/1

WEBS 2-18=-192/224, 3-17=-240/321,

4-16=-214/377, 6-15=-148/0, 7-14=-227/308,

9-13=-141/82

FORCES (lb) - Maximum Compression/Maximum Tension TOP CHORD 1-2=-1138/535, 2-3=-933/442, 3-4=-641/302, 7-8=-77/39, 8-9=-16/13, 9-10=-16/13, 10-11=-9/40, 11-12=-51/5 **BOT CHORD** 1-18=-1/1, 17-18=-1/1, 16-17=-1/1,

bottom chord. LOAD CASE(S) Standard

uplift at joint 13.

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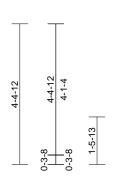


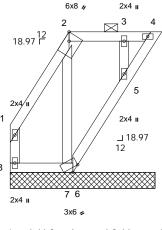
Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	LAY6	Lay-In Gable	1	1	Job Reference (optional)	149889887

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2x4 =





4-8-14 1-11-8 1-11-8 2-9-6

Scale = 1:36

Plate Offsets (X, Y): [2:0-2-15,Edge], [6:0-3-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 22 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x4 SPF No.2 WEBS **OTHERS** 2x4 SPF No.2

BRACING

Structural wood sheathing directly applied or TOP CHORD 4-8-14 oc purlins, except end verticals, and

2-0-0 oc purlins: 2-4.

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

bracing, Except: 6-0-0 oc bracing: 4-5.

REACTIONS (lb/size)

4=17/4-6-6, 5=158/4-6-6, 6=-22/4-6-6, 7=164/4-6-6,

8=72/4-6-6

Max Horiz 8=95 (LC 8)

Max Uplift 4=-165 (LC 8), 5=-32 (LC 5), 6=-130 (LC 6), 7=-2 (LC 4), 8=-93

(LC 8)

4=109 (LC 6), 5=158 (LC 1), 6=161 Max Grav

(LC 8), 7=164 (LC 1), 8=126 (LC

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-8=-114/100, 1-2=-96/96, 2-3=-68/103,

3-4=-67/104

BOT CHORD 7-8=-104/67, 6-7=-104/67, 5-6=-206/146,

4-5=-202/127 2-7=-109/42, 3-5=-124/52

WEBS NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; 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.
- Provide adequate drainage to prevent water ponding.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-9-6 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 93 lb uplift at joint 8, 165 lb uplift at joint 4, 130 lb uplift at joint 6, 2 lb uplift at joint 7 and 32 lb uplift at joint 5.
- 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord

LOAD CASE(S) Standard



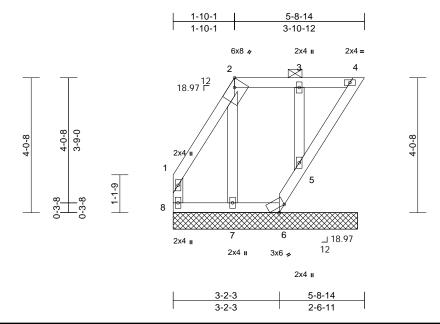
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Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	LAY7	Lay-In Gable	1	1	Job Reference (optional)	149889888

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Page: 1



Scale = 1:34.6

Plate Offsets (X, Y): [2:0-2-15,Edge], [6:0-3-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 25 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x4 SPF No.2 WEBS **OTHERS** 2x4 SPF No.2

BRACING

Structural wood sheathing directly applied or TOP CHORD 5-8-14 oc purlins, except end verticals, and

2-0-0 oc purlins: 2-4.

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

bracing, Except:

6-0-0 oc bracing: 4-5. REACTIONS (lb/size)

4=59/5-6-6, 5=193/5-6-6, 6=4/5-6-6, 7=151/5-6-6, 8=72/5-6-6

Max Horiz 8=100 (LC 8)

Max Uplift 4=-167 (LC 8), 5=-56 (LC 5), 6=-104 (LC 6), 7=-10 (LC 4), 8=-97

(LC 8)

Max Grav 4=111 (LC 15), 5=193 (LC 1),

6=194 (LC 8), 7=151 (LC 1), 8=120

(LC 15)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-8=-108/104, 1-2=-89/101, 2-3=-63/106, TOP CHORD

3-4=-62/106

BOT CHORD 7-8=-107/62, 6-7=-106/62, 5-6=-215/140,

4-5=-209/125

WEBS 2-7=-113/35, 3-5=-158/66

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; 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.
- Provide adequate drainage to prevent water ponding.
- 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 97 lb uplift at joint 8, 167 lb uplift at joint 4, 104 lb uplift at joint 6, 10 lb uplift at joint 7 and 56 lb uplift at joint 5.
- 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord

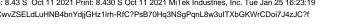
LOAD CASE(S) Standard



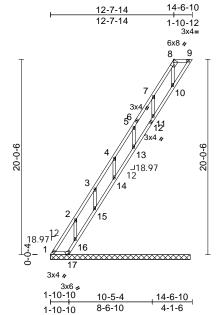


Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	LAY8	Lay-In Gable	1	1	Job Reference (optional)	149889889

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Jan 25 16:23:19 ID:CwvZSELdLuHNB4bnYdjjGHz1lrh-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Page: 1



Scale = 1:118.2

Plate Offsets (X, Y): [8:0-2-15,Edge], [17:0-3-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	-0.03	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 74 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 **OTHERS**

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

5-9-8 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 8-9. Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS (lb/size) 1=81/14-4-2 9=35/14-4-2

10=294/14-4-2, 13=325/14-4-2,

14=120/14-4-2, 15=191/14-4-2,

16=186/14-4-2, 17=30/14-4-2

Max Horiz 1=804 (LC 8)

Max Grav

Max Uplift 1=-348 (LC 6), 9=-223 (LC 8), 10=-17 (LC 8), 13=-439 (LC 8),

14=-155 (LC 8), 15=-249 (LC 8), 16=-299 (LC 8), 17=-110 (LC 6)

1=861 (LC 8), 9=83 (LC 6), 10=294

(LC 1), 13=460 (LC 15), 14=167

(LC 15), 15=267 (LC 15), 16=275

(LC 15), 17=313 (LC 8)

FORCES

TOP CHORD

(lb) - Maximum Compression/Maximum Tension

1-2=-1028/483, 2-3=-751/351, 3-4=-511/241, 4-5=-300/162, 5-7=-100/36, 7-8=-89/206,

8-9=-89/190

BOT CHORD 1-17=-192/86, 16-17=-378/176,

15-16=-372/181, 14-15=-359/167,

13-14=-400/204, 11-13=-307/124, 10-11=-433/231, 9-10=-332/146

WFBS 8-10=-180/8. 7-11=-112/173. 5-13=-307/353.

4-14=-174/225, 3-15=-212/260,

2-16=-246/301

NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; 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.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 9, 10 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 223 lb uplift at joint 9, 348 lb uplift at joint 1, 110 lb uplift at joint 17, 17 lb uplift at joint 10, 439 lb uplift at joint 13, 155 lb uplift at joint 14, 249 lb uplift at joint 15 and 299 lb uplift at joint 16.
- 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) 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



January 27,2022



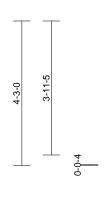


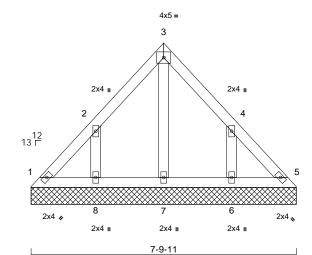
Job	Truss	Truss Type	Qty	Ply	Lot 111 RR	
B220019	LAY9	Lay-In Gable	1	1	Job Reference (optional)	149889890

Run: 8 43 S. Oct 11 2021 Print: 8 430 S. Oct 11 2021 MiTek Industries. Inc. Tue Jan 25 16:23:19 ID:ZOtRv362vm_4LmlfWDbx64yjciJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1







Scale = 1:33.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 29 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x4 SPF No.2 **OTHERS**

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (lb/size) 1=71/7-9-11, 5=71/7-9-11, 6=198/7-9-11, 7=110/7-9-11,

8=198/7-9-11

Max Horiz 1=-104 (LC 4)

1=-25 (LC 4), 5=-8 (LC 5), 6=-147 Max Uplift

(LC 9), 8=-147 (LC 8)

Max Grav 1=96 (LC 16), 5=87 (LC 18), 6=226

(LC 16), 7=122 (LC 18), 8=226 (LC

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-115/87, 2-3=-98/77, 3-4=-90/62, 4-5=-99/64

BOT CHORD 1-8=-42/89, 7-8=-42/89, 6-7=-42/89,

5-6=-42/89

WFRS 3-7=-82/0, 2-8=-186/171, 4-6=-186/171

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.

- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 1, 8 lb uplift at joint 5, 147 lb uplift at joint 8 and 147 lb uplift at joint 6.
- 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



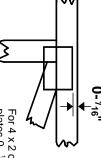


Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE



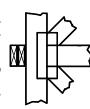
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

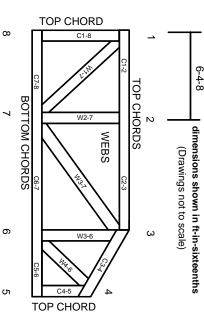
Min size shown is for crushing only

Industry Standards:

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

ANSI/TPI1: DSB-89:

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

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

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

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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

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- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.

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- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANS/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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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 responsibility of truss fabricator. General practice is to camber for dead load deflection.
- 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 specified.
- 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.
- 15. 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.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 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.