



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

RE: 3953285 -

MiTek, Inc.
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

Site Information:

Customer Info: Hudson Homes Project Name: 3953285 Model: King Res
Lot/Block: . Subdivision: .
Address: ., .
City: Lake City State: FL

Name Address and License # of Structural Engineer of Record, If there is one, for the building.

Name: License #:
Address:
City: State:

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

Design Code: FBC2023/TPI2014 Design Program: MiTek 20/20 8.7
Wind Code: ASCE 7-22 Wind Speed: 130 mph
Roof Load: 32.0 psf Floor Load: N/A psf

This package includes 13 individual, Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date
1	T33967397	EJ06	5/24/24
2	T33967398	EJ06G	5/24/24
3	T33967399	EJ08	5/24/24
4	T33967400	EJ08G	5/24/24
5	T33967401	T01	5/24/24
6	T33967402	T01G	5/24/24
7	T33967403	T02	5/24/24
8	T33967404	T02G	5/24/24
9	T33967405	T03	5/24/24
10	T33967406	T04	5/24/24
11	T33967407	T04G	5/24/24
12	T33967408	T05	5/24/24
13	T33967409	T05G	5/24/24



Review for Code Compliance
Universal Engineering Science

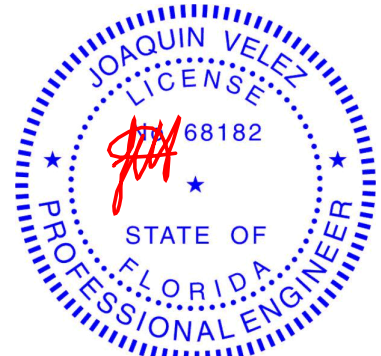
Lester Powell
Examiner-License No.

PX2707 07/15/2024

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource-Jacksonville.

Truss Design Engineer's Name: Velez, Joaquin
My license renewal date for the state of Florida is February 28, 2025.

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.



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

May 24,2024

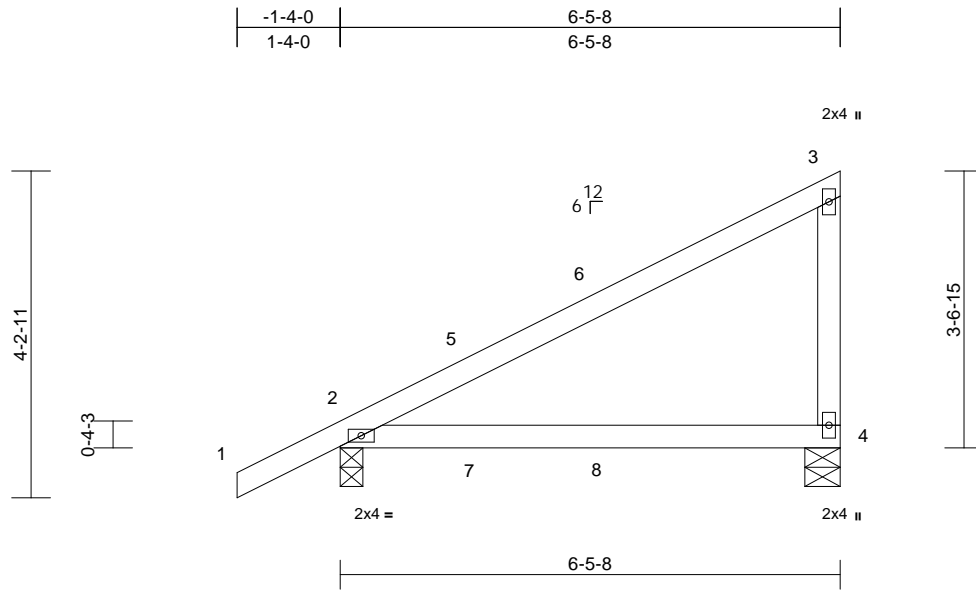
Job 3953285	Truss EJ06	Truss Type Monopitch	Qty 12	Ply 1	Job Reference (optional) T33967397
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Thu May 23 08:17:56

Page: 1

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Scale = 1:29.8

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.69	Vert(LL)	0.27	2-4	>276	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.80	Vert(CT)	0.24	2-4	>306	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code	FBC2023/TPI2014	Matrix-P							Weight: 27 lb	FT = 20%

LUMBER

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

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 115 lb uplift at joint 4 and 100 lb uplift at joint 2.

LOAD CASE(S) Standard

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 8-5-9 oc bracing.

REACTIONS

(size) 2=0-3-8, 4=0-5-8
 Max Horiz 2=137 (LC 11)
 Max Uplift 2=-100 (LC 12), 4=-115 (LC 9)
 Max Grav 2=287 (LC 1), 4=188 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/31, 2-3=-184/106, 3-4=-158/281
 BOT CHORD 2-4=-55/59

NOTES

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust)
 Vasd=101mph; TC DL=4.2psf; BC DL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 6-3-12 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * 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.
- 5) All bearings are assumed to be SP No.2 .

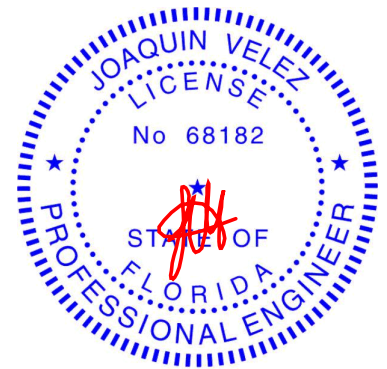


Review for Code Compliance
 Universal Engineering Science

Lester Powell
 Examiner-License No.

PX2707

07/15/2024



Joaquin Velez PE No.68182
 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

May 24, 2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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

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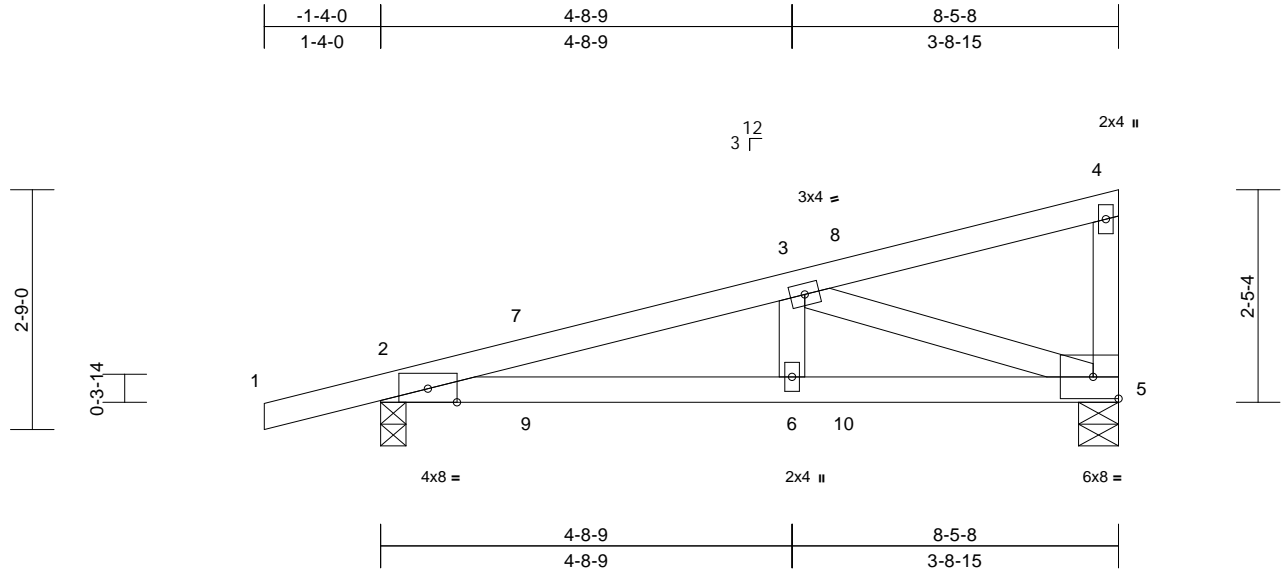
16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job 3953285	Truss EJ08	Truss Type Monopitch	Qty 20	Ply 1	Job Reference (optional) T33967399
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Thu May 23 08:17:57
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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)	20.0	Plate Grip DOL	1.25	TC	0.32	Vert(LL)	0.07	2-6	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.30	Vert(CT)	0.06	2-6	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.35	Horz(CT)	-0.01	5	n/a	n/a		
BCDL	5.0	Code	FBC2023/TPI2014	Matrix-P							Weight: 37 lb	FT = 20%

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


6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 173 lb uplift at joint 5 and 239 lb uplift at joint 2.
LOAD CASE(S) Standard

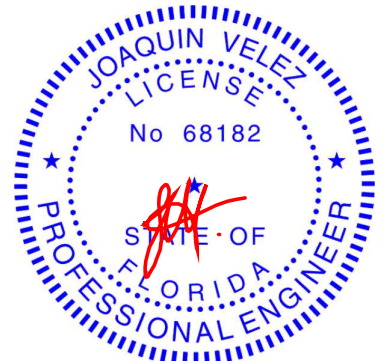
BRACING
TOP CHORD Structural wood sheathing directly applied or 6'-0" oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5'-2-15 oc bracing.

REACTIONS (size) 2=0-3-8, 5=0-5-8
Max Horiz 2=91 (LC 9)
Max Uplift 2=-239 (LC 8), 5=-173 (LC 8)
Max Grav 2=348 (LC 1), 5=254 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/16, 2-3=-533/1010, 3-4=-65/39, 4-5=-74/139
BOT CHORD 2-6=-1130/487, 5-6=-1130/487
WEBS 3-5=-513/1166, 3-6=-389/148

- NOTES**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust)
Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-4-0 to 1-8-0, Zone1 1-8-0 to 8-3-12 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-0"-0" tall by 2'-0"-0" wide will fit between the bottom chord and any other members.
 - 5) All bearings are assumed to be SP No.2.

 **Review for Code Compliance**
Universal Engineering Science
Lawrence Powell PX2707 07/15/2024
Examiner-License No.



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

May 24, 2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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

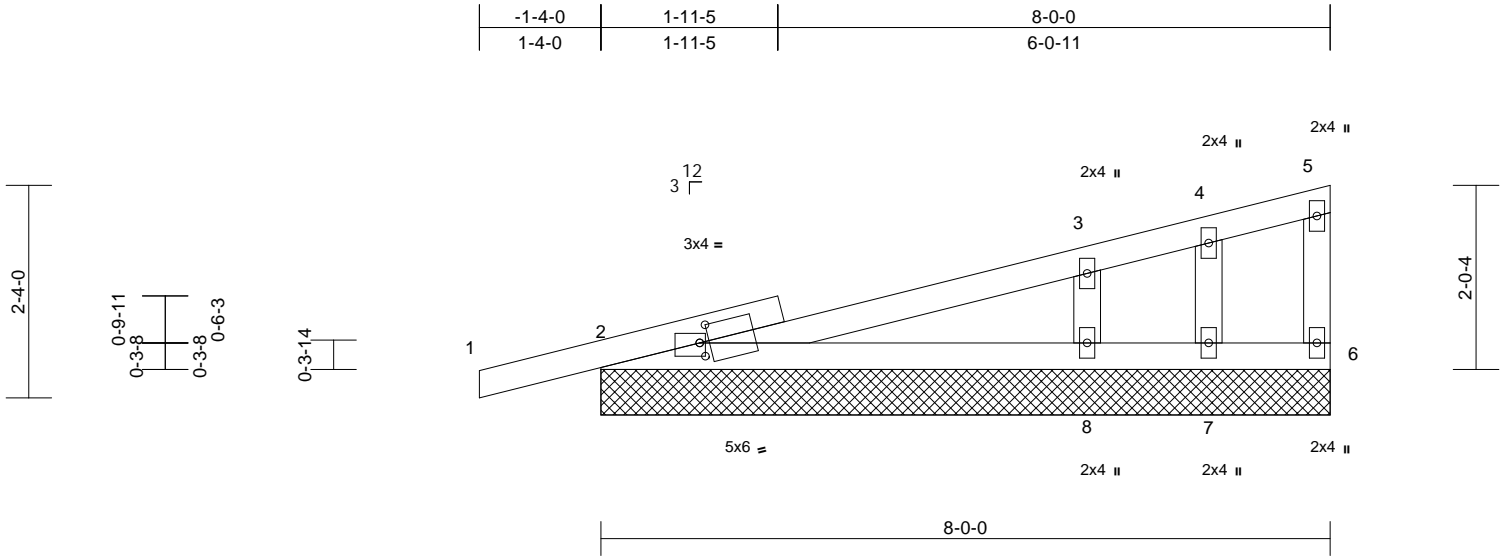
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 3953285	Truss EJ08G	Truss Type Monopitch Supported Gable	Qty 2	Ply 1	Job Reference (optional) T33967400
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Thu May 23 08:17:58
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Page: 1



Scale = 1:25.3

Plate Offsets (X, Y): [2:0-1-4,0-2-2], [2:0-0-12,0-1-12]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.34	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.18	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.00	6	n/a	n/a		
BCDL	5.0	Code	FBC2023/TPI2014	Matrix-P							Weight: 33 lb	FT = 20%

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

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


- REACTIONS** (size) 2=8-0-0, 6=8-0-0, 7=8-0-0, 8=8-0-0
- Max Horiz 2=75 (LC 11)
 - Max Uplift 2=-113 (LC 8), 6=-20 (LC 12), 7=-87 (LC 1), 8=-149 (LC 12)
 - Max Grav 2=220 (LC 1), 6=61 (LC 1), 7=30 (LC 12), 8=381 (LC 1)

- FORCES** (lb) - Maximum Compression/Maximum Tension
- TOP CHORD 1-2=0/16, 2-3=-139/67, 3-4=-48/42, 4-5=-43/39, 5-6=-50/87
 - BOT CHORD 2-8=-29/39, 7-8=-29/39, 6-7=-29/39
 - WEBS 4-7=-110/69, 3-8=-316/512

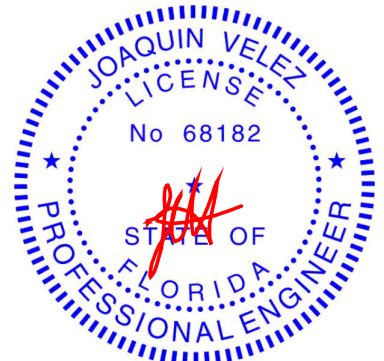
- NOTES**
- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 4) Gable requires continuous bottom chord bearing.

- 5) Gable studs spaced at 1-4-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) All bearings are assumed to be SP No.2.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint 6, 113 lb uplift at joint 2, 87 lb uplift at joint 7 and 149 lb uplift at joint 8.

LOAD CASE(S) Standard

 **Review for Code Compliance**
Universal Engineering Science

Lester Powell PX2707 07/15/2024
Examiner-License No.



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

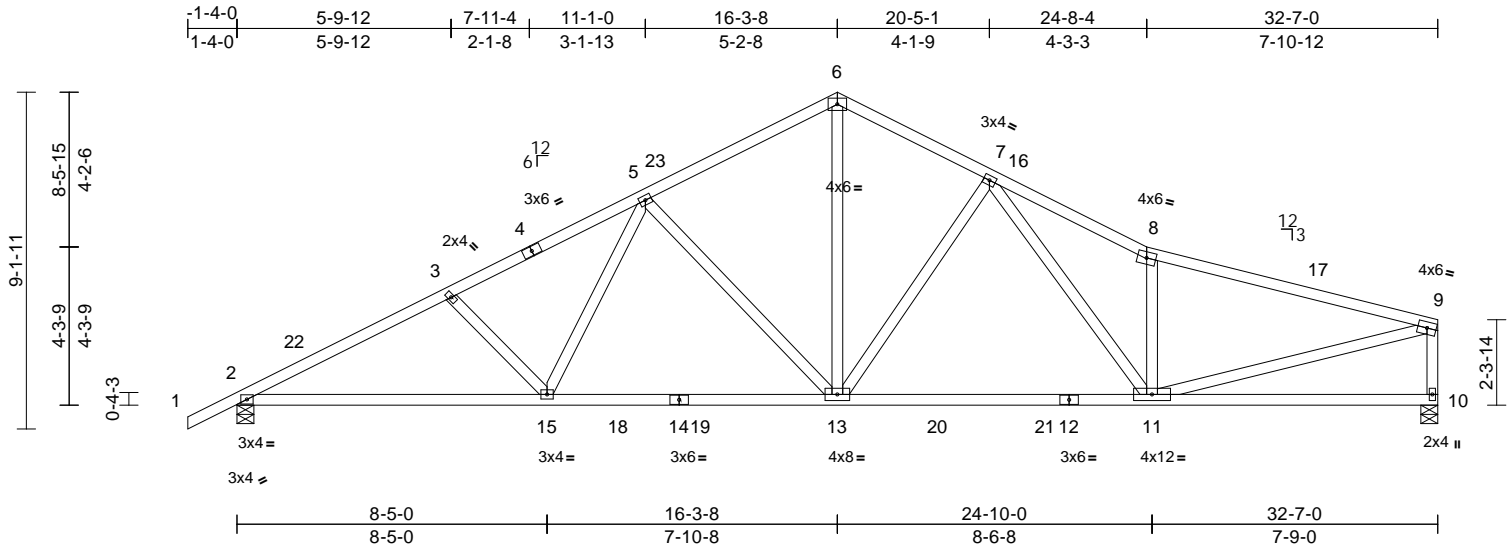
May 24, 2024

Job 3953285	Truss T01	Truss Type Roof Special	Qty 7	Ply 1	Job Reference (optional) T33967401
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

Run: 8.73 E Nov 16 2023 Print: 8.730 E Nov 16 2023 MiTek Industries, Inc. Fri May 24 08:05:23
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Page: 1



Scale = 1:62.5

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.77	Vert(LL)	-0.25	11-13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.72	Vert(CT)	-0.36	11-13	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.06	10	n/a	n/a		
BCDL	5.0	Code	FBC2023/TPI2014	Matrix-S							Weight: 182 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 8-9:2x4 SP No.1
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 7-10-3 oc bracing.

REACTIONS

(lb/size) 2=1117/0-5-8, 10=1029/0-5-8
 Max Horiz 2=164 (LC 16)
 Max Uplift 2=-345 (LC 12), 10=-309 (LC 3)
 Max Grav 2=1220 (LC 2), 10=1149 (LC 2)

FORCES

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 6-7=-1353/437, 7-16=-1968/595, 8-16=-2043/580, 8-17=-1815/468, 9-17=-1858/458, 9-10=-1067/368, 2-22=-2092/535, 3-22=-2055/550, 3-4=-1939/498, 4-5=-1885/516, 5-23=-1368/409, 6-23=-1312/427
 BOT CHORD 2-15=-566/1817, 15-18=-410/1508, 14-18=-410/1508, 14-19=-410/1508, 13-19=-410/1508, 13-20=-361/1426, 20-21=-361/1426, 12-21=-361/1426, 11-12=-361/1426
 WEBS 6-13=-254/979, 8-11=-729/337, 9-11=-388/1725, 5-15=-103/418, 5-13=-497/276, 7-13=-460/260, 7-11=-224/622

NOTES

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

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C 32-5-4 to 32-5-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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 = 5.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 345 lb uplift at joint 2 and 309 lb uplift at joint 10.

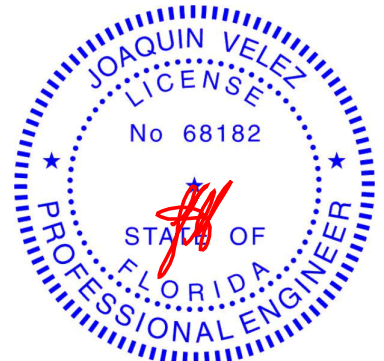
LOAD CASE(S) Standard



Review for Code Compliance
 Universal Engineering Science

Lester Powell
 Examiner-License No.

PX2707 07/15/2024



Joaquin Velez PE No.68182
 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

May 24, 2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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MiTek®

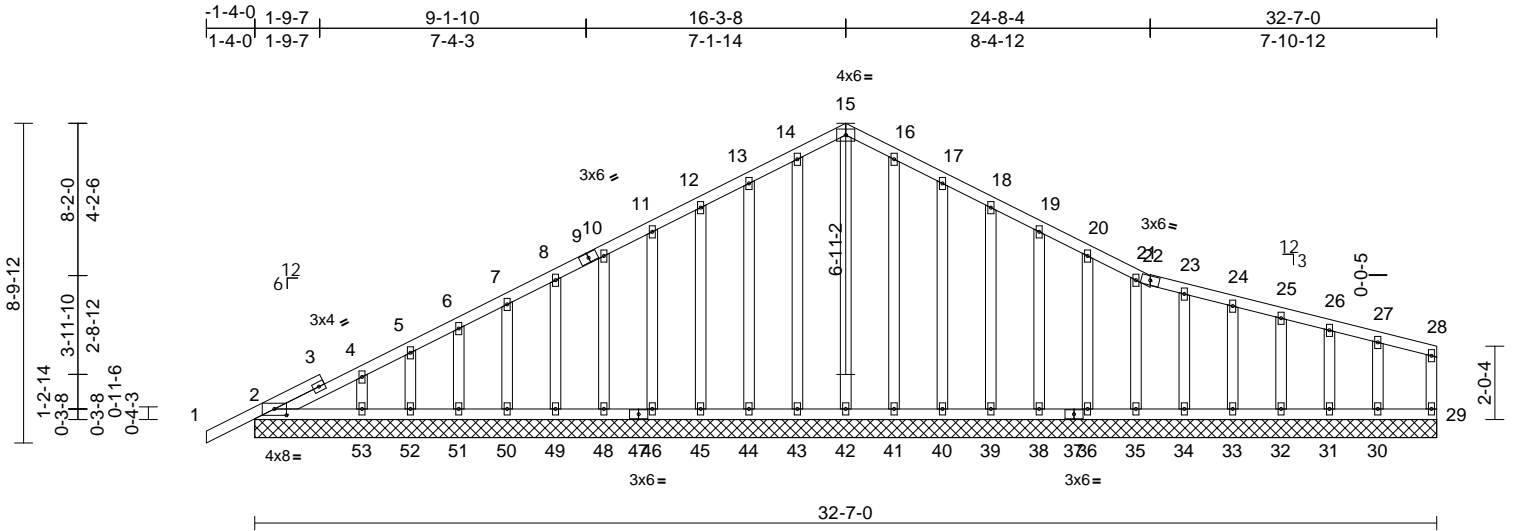
16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job 3953285	Truss T01G	Truss Type Roof Special Supported Gable	Qty 1	Ply 1	Job Reference (optional) T33967402
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Thu May 23 08:17:58
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Page: 1



Scale = 1:63.5

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

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.00	29	n/a	n/a		
BCDL	5.0	Code	FBC2023/TPI2014	Matrix-S								
											Weight: 245 lb	FT = 20%

LUMBER

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

BRACING

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

REACTIONS (size)

2=32-7-0, 29=32-7-0, 30=32-7-0,
31=32-7-0, 32=32-7-0, 33=32-7-0,
34=32-7-0, 35=32-7-0, 36=32-7-0,
38=32-7-0, 39=32-7-0, 40=32-7-0,
41=32-7-0, 42=32-7-0, 43=32-7-0,
44=32-7-0, 45=32-7-0, 46=32-7-0,
48=32-7-0, 49=32-7-0, 50=32-7-0,
51=32-7-0, 52=32-7-0, 53=32-7-0
Max Horiz 2=157 (LC 12)
Max Uplift 2=53 (LC 8), 29=3 (LC 9), 30=70 (LC 13), 31=32 (LC 9), 32=37 (LC 13), 33=35 (LC 9), 34=39 (LC 13), 35=53 (LC 13), 36=45 (LC 13), 38=45 (LC 13), 39=45 (LC 13), 40=53 (LC 13), 41=25 (LC 13), 43=32 (LC 12), 44=51 (LC 12), 45=45 (LC 12), 46=45 (LC 12), 48=45 (LC 12), 49=45 (LC 12), 50=45 (LC 12), 51=45 (LC 12), 52=45 (LC 12), 53=50 (LC 12)

Max Grav 2=174 (LC 1), 29=43 (LC 1), 30=98 (LC 26), 31=83 (LC 1), 32=86 (LC 26), 33=85 (LC 1), 34=85 (LC 1), 35=86 (LC 1), 36=85 (LC 26), 38=85 (LC 1), 39=85 (LC 1), 40=86 (LC 26), 41=88 (LC 26), 42=150 (LC 13), 43=88 (LC 25), 44=86 (LC 25), 45=85 (LC 1), 46=85 (LC 1), 48=85 (LC 25), 49=86 (LC 1), 50=84 (LC 25), 51=90 (LC 1), 52=64 (LC 25), 53=148 (LC 1)

WEBS

15-42=-238/55, 14-43=-75/54, 13-44=-73/98, 12-45=-72/84, 11-46=-72/84, 10-48=-72/84, 8-49=-72/84, 7-50=-72/84, 6-51=-75/86, 5-52=-58/75, 4-53=-119/119, 16-41=-75/54, 17-40=-73/98, 18-39=-72/84, 19-38=-72/84, 20-36=-72/84, 21-35=-73/109, 23-34=-72/79, 24-33=-72/68, 25-32=-72/71, 26-31=-70/65, 27-30=-83/99

FORCES

(lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/31, 2-4=-149/92, 4-5=-119/94, 5-6=-98/102, 6-7=-78/114, 7-8=-60/140, 8-10=-71/182, 10-11=-81/225, 11-12=-91/268, 12-13=-102/310, 13-14=-114/358, 14-15=-119/385, 15-16=-119/385, 16-17=-114/358, 17-18=-102/310, 18-19=-91/268, 19-20=-81/225, 20-21=-71/183, 21-22=-51/132, 28-29=-36/29, 22-23=-56/134, 23-24=-50/114, 24-25=-46/95, 25-26=-41/75, 26-27=-37/56, 27-28=-34/36
BOT CHORD 2-53=-35/59, 52-53=-35/59, 51-52=-35/59, 50-51=-35/59, 49-50=-35/59, 48-49=-35/59, 46-48=-35/59, 45-46=-35/59, 44-45=-35/59, 43-44=-35/59, 42-43=-35/59, 41-42=-35/59, 40-41=-35/59, 39-40=-35/59, 38-39=-35/59, 36-38=-35/59, 35-36=-35/59, 34-35=-35/59, 33-34=-35/59, 32-33=-35/59, 31-32=-35/59, 30-31=-35/59, 29-30=-35/59

- NOTE**
- 1) Unfactored roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Wind=100mph; TC=1-4-2ft; BCDL=3.0ft; 9-25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

May 24, 2024

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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

MiTek®

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3953285	T01G	Roof Special Supported Gable	1	1	T33967402

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Thu May 23 08:17:58
ID:m4TpHEFbZUj3IYjYH7qAYzzDuS1-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 2

- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) All bearings are assumed to be SP No.2 .
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 3 lb uplift at joint 29, 32 lb uplift at joint 43, 51 lb uplift at joint 44, 45 lb uplift at joint 45, 45 lb uplift at joint 46, 45 lb uplift at joint 48, 45 lb uplift at joint 49, 45 lb uplift at joint 50, 45 lb uplift at joint 51, 45 lb uplift at joint 52, 50 lb uplift at joint 53, 25 lb uplift at joint 41, 53 lb uplift at joint 40, 45 lb uplift at joint 39, 45 lb uplift at joint 38, 45 lb uplift at joint 36, 53 lb uplift at joint 35, 39 lb uplift at joint 34, 35 lb uplift at joint 33, 37 lb uplift at joint 32, 32 lb uplift at joint 31, 70 lb uplift at joint 30 and 53 lb uplift at joint 2.

LOAD CASE(S) Standard



Review for Code Compliance
Universal Engineering Science

Lauren Powell
Examiner-License No.

PX2707

07/15/2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP11 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

MiTek®

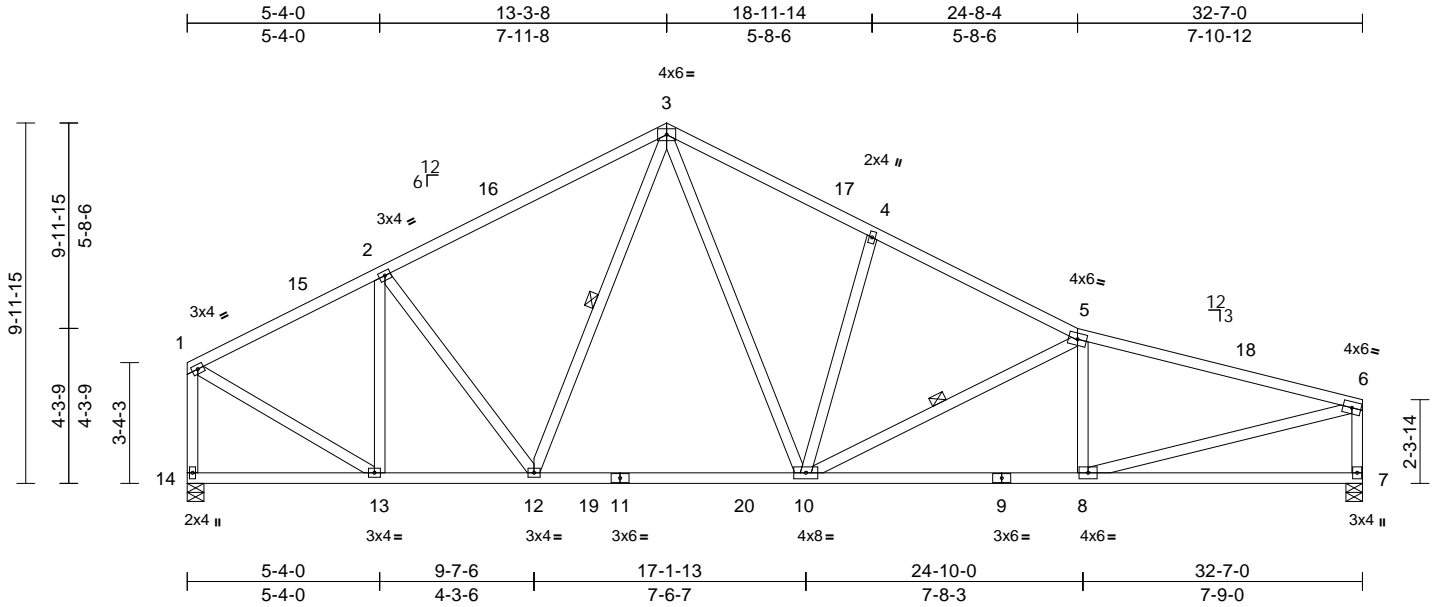
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 3953285	Truss T02	Truss Type Roof Special	Qty 2	Ply 1	Job Reference (optional) T33967403
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Thu May 23 08:17:58
ID:qVwKa_rL0Xu684zzfvCg1JzDuRG-RfC?PsB70Hq3NSgPqnL8w3uLTxBGKWrCdoi7J4zJcF

Page: 1



Scale = 1:63.9

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.77	Vert(LL)	-0.18	10-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.67	Vert(CT)	-0.25	10-12	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.64	Horz(CT)	0.04	7	n/a	n/a		
BCDL	5.0	Code	FBC2023/TPI2014	Matrix-S								
											Weight: 205 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 5-6:2x4 SP No.1
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
 8-7-13 oc bracing: 8-10.
 WEBS 1 Row at midpt 3-12, 5-10

REACTIONS

(size) 7=0-5-8, 14=0-5-8
 Max Horiz 14=-198 (LC 8)
 Max Uplift 7=-325 (LC 13), 14=-280 (LC 12)
 Max Grav 7=1140 (LC 2), 14=1152 (LC 2)

FORCES

(lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-1073/317, 2-3=-1191/407,
 3-4=-1421/485, 4-5=-1488/433,
 5-6=-1830/489, 6-7=-1050/367,
 1-14=-1087/373
 BOT CHORD 13-14=-118/174, 12-13=-280/968,
 10-12=-208/944, 8-10=-463/1744,
 7-8=-72/101
 WEBS 2-12=-89/186, 3-12=-86/203, 3-10=-292/766,
 4-10=-305/224, 5-10=-521/219,
 5-8=-321/161, 6-8=-415/1693,
 1-13=-275/1065, 2-13=-455/174

NOTES

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

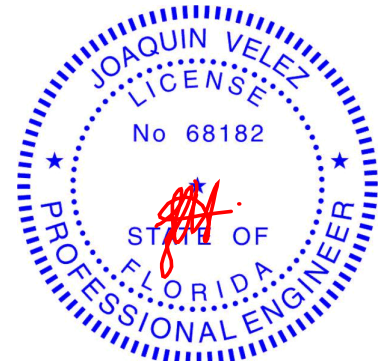
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust)
 Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 6-1-12 to 9-4-14, Zone1 9-4-14 to 19-3-8, Zone2 19-3-8 to 23-10-13, Zone1 23-10-13 to 38-5-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * 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 = 5.0psf.
- 6) All bearings are assumed to be SP No.2 .
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 280 lb uplift at joint 14 and 325 lb uplift at joint 7.

LOAD CASE(S) Standard



Review for Code Compliance
 Universal Engineering Science

Lawrence Powell PX2707 07/15/2024
 Examiner-License No.



Joaquin Velez PE No.68182
 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

May 24, 2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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

MiTek®

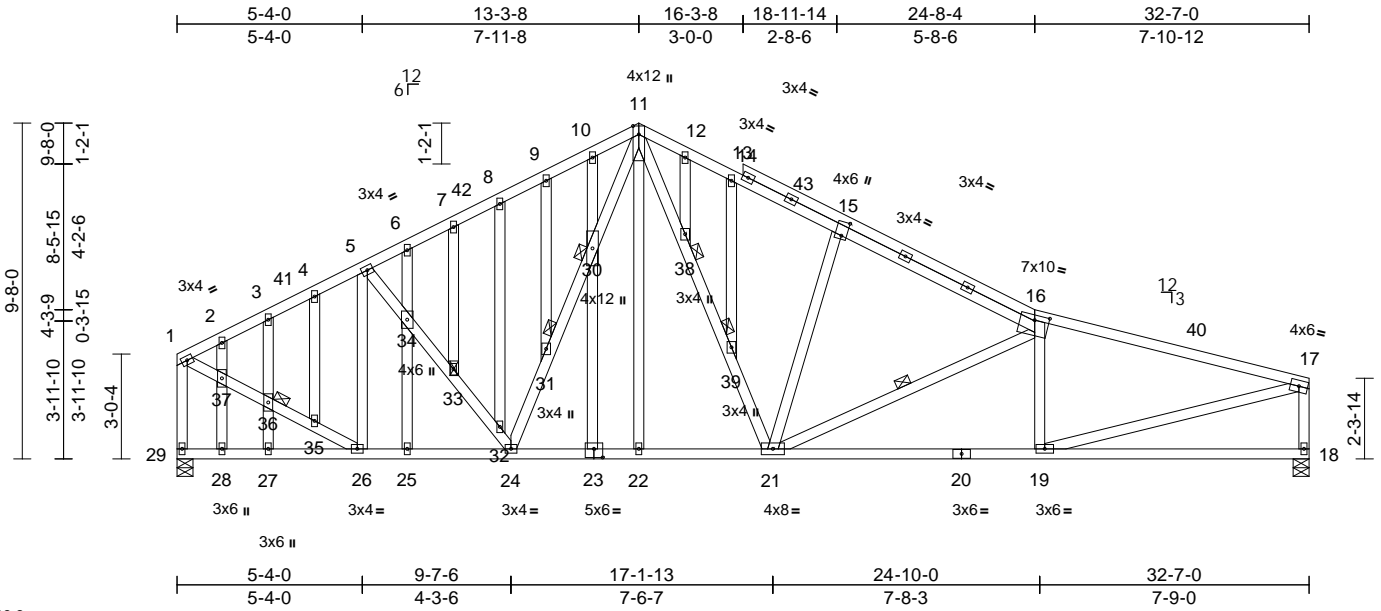
16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job 3953285	Truss T02G	Truss Type Roof Special	Qty 1	Ply 1	Job Reference (optional) T33967404
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Thu May 23 08:17:58
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Page: 1



Scale = 1:66.3

Plate Offsets (X, Y): [15:0-4-13,0-1-12], [16:0-5-0,0-1-12], [23:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.96	Vert(LL)	-0.10	19-21	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.56	Vert(CT)	-0.18	19-21	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.04	18	n/a	n/a		
BCDL	5.0	Code	FBC2023/TPI2014	Matrix-S								
											Weight: 301 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
8-6-13 oc bracing: 19-21.
WEBS 1 Row at midpt 16-21
JOINTS 1 Brace at Jt(): 30, 31, 33, 36, 38, 39

REACTIONS
(size) 18=0-5-8, 29=0-5-8
Max Horiz 29=-185 (LC 8)
Max Uplift 18=-328 (LC 13), 29=-279 (LC 12)
Max Grav 18=1033 (LC 1), 29=1033 (LC 1)

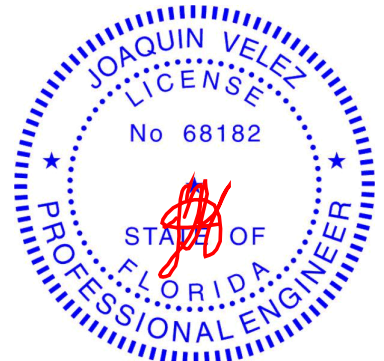
FORCES
(lb) - Maximum Compression/Maximum Tension
TOP CHORD 16-17=-1659/499, 17-18=-995/366,
1-29=-957/303, 1-2=-998/289, 2-3=-983/302,
3-4=-981/340, 4-5=-946/344, 5-6=-1072/373,
6-7=-1062/388, 7-8=-1028/398,
8-9=-1063/433, 9-10=-1042/449,
10-11=-1023/473, 11-12=-1186/494,
12-13=-1238/500, 13-15=-1274/471,
15-16=-1367/439
BOT CHORD 28-29=-99/162, 27-28=-99/162,
26-27=-99/162, 25-26=-276/863,
24-25=-276/863, 22-24=-216/872,
21-22=-216/873, 19-21=-471/1569,
18-19=-71/94

WEBS
5-34=-22/138, 33-34=-29/148,
32-33=-28/152, 24-32=-126/155,
24-31=-164/227, 30-31=-181/251,
11-30=-190/267, 11-38=-290/600,
38-39=-320/655, 21-39=-270/578,
15-21=-263/195, 16-21=-450/207,
16-19=-320/166, 17-19=-427/1519,
1-37=-260/947, 36-37=-258/947,
35-36=-250/939, 26-35=-252/946,
5-26=-302/80, 11-22=-15/70, 10-30=-55/45,
23-30=-38/41, 9-31=-33/24, 8-32=-156/112,
7-33=-6/8, 6-34=-47/41, 25-34=-76/57,
4-35=-5/23, 3-36=-68/75, 27-36=-51/57,
2-37=-37/57, 28-37=-36/52, 12-38=-32/64,
13-39=-84/61

8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
10) All bearings are assumed to be SP No.2 .
11) Provide mechanical connection (by others) of truss to br plate capable of withstanding 279 lb uplift at joint 21 and 328 lb uplift at joint 18.
LOAD CASE(S) Standard

Joaquin Velez PX2707 07/15/2024
Examiner-License No.

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 6-1-12 to 9-4-14, Zone1 9-4-14 to 19-1-11, Zone2 19-1-11 to 23-9-0, Zone1 23-9-0 to 38-5-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 1-4-0 oc.



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

May 24, 2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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

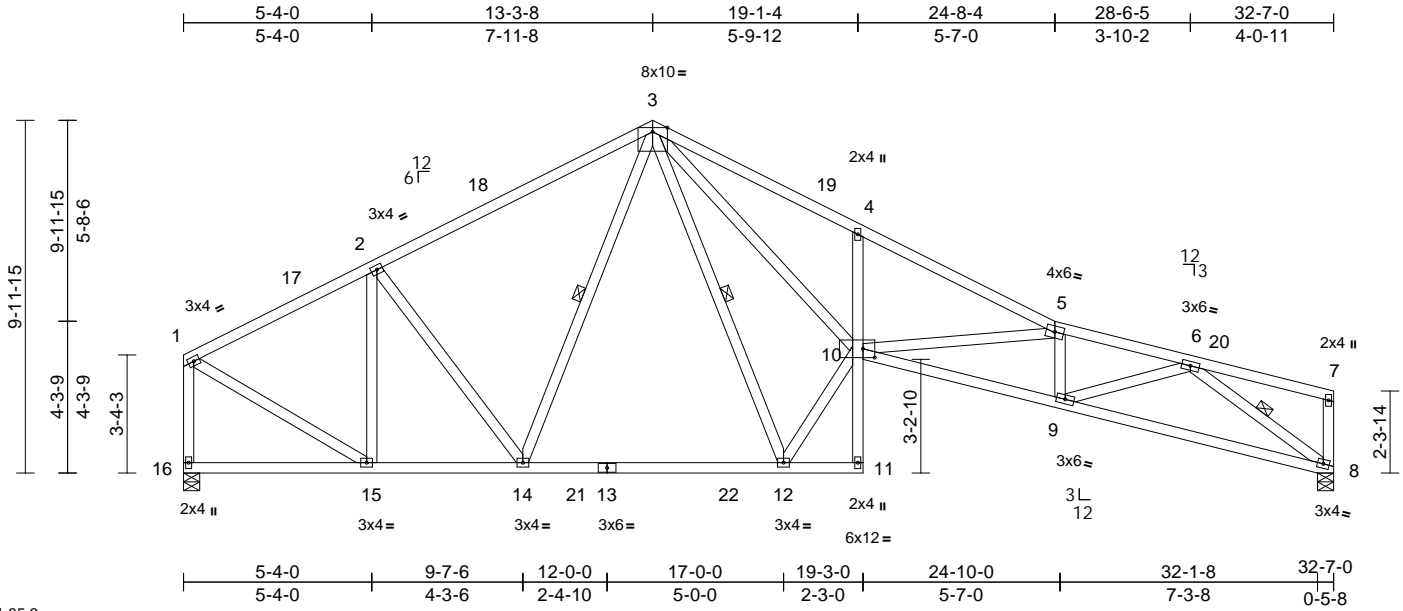
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 3953285	Truss T03	Truss Type Roof Special	Qty 1	Ply 1	Job Reference (optional) T33967405
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Thu May 23 08:17:58
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Page: 1



Scale = 1:65.3

Plate Offsets (X, Y): [10:0-4-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.67	Vert(LL)	-0.33	9-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.86	Vert(CT)	-0.50	9-10	>777	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.31	8	n/a	n/a		
BCDL	5.0	Code	FBC2023/TPI2014	Matrix-S							Weight: 218 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2 *Except* 11-4:2x4 SP No.3
 WEBS 2x4 SP No.3 *Except* 10-3:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-0-1 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-3-8 oc bracing.

WEBS 1 Row at midpt 6-8, 3-12, 3-14

REACTIONS (size) 8=0-5-8, 16=0-5-8
 Max Horiz 16=200 (LC 8)
 Max Uplift 8=325 (LC 13), 16=280 (LC 12)
 Max Grav 8=1140 (LC 2), 16=1152 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-1073/317, 2-3=-1189/407,
 3-4=-2909/884, 4-5=-2939/791,
 5-6=-3303/889, 6-7=-82/61, 7-8=-113/93,
 1-16=-1088/373

BOT CHORD 10-11=-66/0, 4-10=-339/253,
 9-10=-875/3330, 8-9=-576/1888,
 15-16=-121/176, 14-15=-282/968,
 12-14=-210/945, 11-12=-12/32

WEBS 10-12=-211/1163, 3-10=-759/2825,
 5-10=-650/274, 5-9=-604/209,
 1-15=-275/1066, 6-9=-292/1449,
 6-8=-2246/683, 3-12=-789/232,
 2-14=-90/183, 2-15=-452/173, 3-14=-84/197

NOTES

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

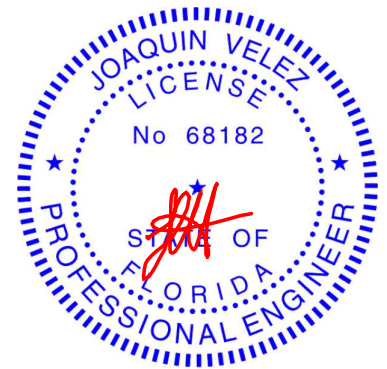
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BCDL=3.0psf; h=25ft; Cat II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 6-1-12 to 9-4-14, Zone1 9-4-14 to 19-3-8, Zone2 19-3-8 to 23-10-13, Zone1 23-10-13 to 38-5-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * 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 = 5.0psf.
- 6) All bearings are assumed to be SP No.2 .
- 7) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 325 lb uplift at joint 8 and 280 lb uplift at joint 16.

LOAD CASE(S) Standard



Review for Code Compliance
 Universal Engineering Science

Lester Powell PX2707 07/15/2024
 Examiner-License No.



Joaquin Velez PE No.68182
 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

May 24, 2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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

MiTek®

16023 Swingley Ridge Rd.
 Chesterfield, MO 63017
 314.434.1200 / MiTek-US.com

Job 3953285	Truss T04	Truss Type Roof Special	Qty 9	Ply 1	Job Reference (optional) T33967406
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Thu May 23 08:17:59
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Page: 1

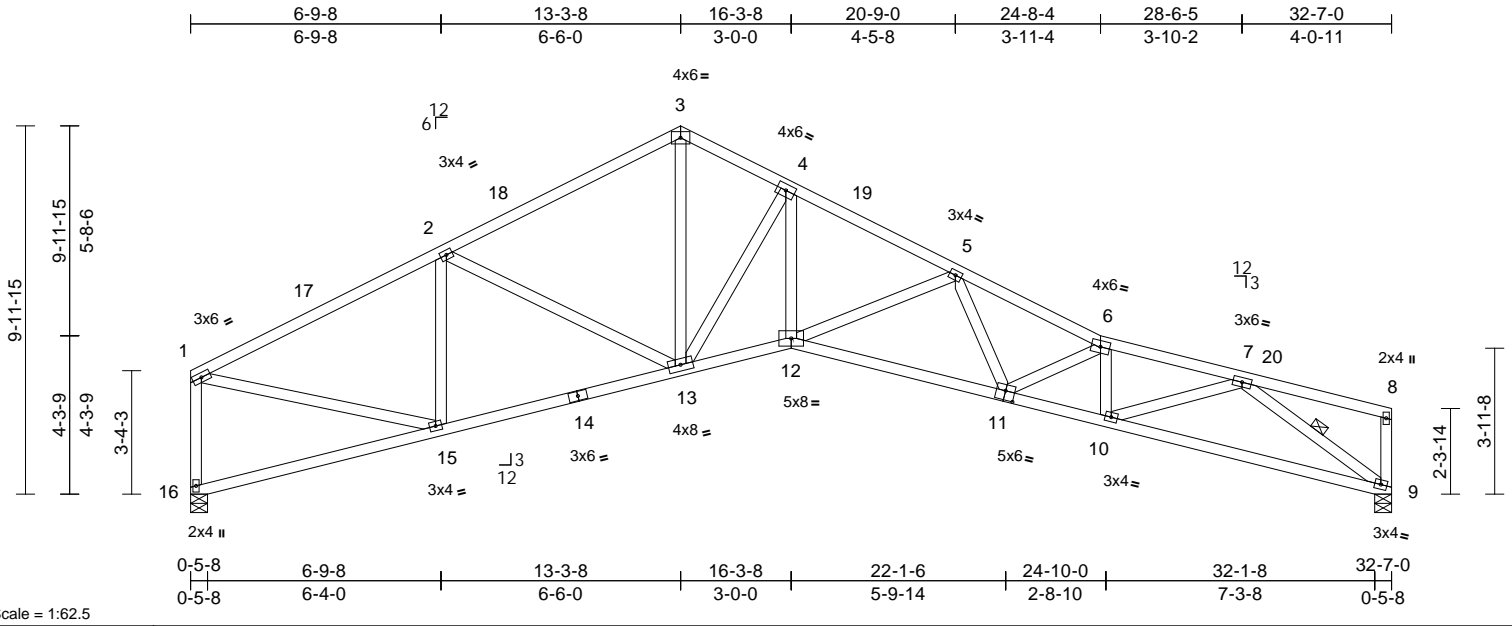


Plate Offsets (X, Y): [11:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.49	Vert(LL)	-0.25	11-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.64	Vert(CT)	-0.42	11-12	>925	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.28	9	n/a	n/a		
BCDL	5.0	Code	FBC2023/TPI2014	Matrix-S							Weight: 192 lb	FT = 20%

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

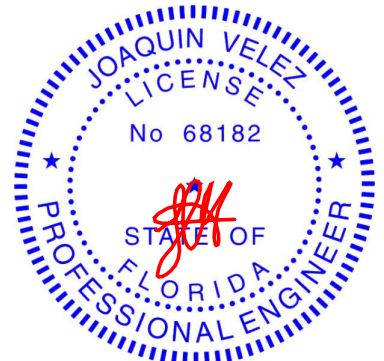
BRACING
 TOP CHORD Structural wood sheathing directly applied or 3-2-12 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-3-12 oc bracing.
 WEBS 1 Row at midpt 7-9

REACTIONS (size) 9=0-5-8, 16=0-5-8
 Max Horiz 16=201 (LC 10)
 Max Uplift 9=-325 (LC 13), 16=-280 (LC 12)
 Max Grav 9=1033 (LC 1), 16=1033 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD 1-2=-1391/437, 2-3=-1500/497,
 3-4=-1441/529, 4-5=-2276/712,
 5-6=-2954/881, 6-7=-2940/884, 7-8=-78/60,
 8-9=-111/91, 1-16=-1009/348
 BOT CHORD 15-16=-121/187, 13-15=-387/1227,
 12-13=-530/2046, 10-12=-868/2961,
 9-10=-580/1724
 WEBS 4-13=-1401/459, 5-12=-567/310,
 6-10=-634/202, 1-15=-280/1181,
 2-15=-485/177, 2-13=-83/205,
 3-13=-312/1019, 7-10=-283/1222,
 7-9=-2082/687, 4-12=-365/1380,
 5-11=-110/324, 6-11=-314/156

- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCCL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-1-12 to 3-4-14, Zone1 3-4-14 to 13-3-8, Zone2 13-3-8 to 17-10-13, Zone1 17-10-13 to 32-5-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 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.
 - All bearings are assumed to be SP No.2 .
 - Bearing at joint(s) 9, 16 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 325 lb uplift at joint 9 and 280 lb uplift at joint 16.
- LOAD CASE(S)** Standard

Review for Code Compliance
 Universal Engineering Science
 Examiner: Lawrence Powell
 PX2707 07/15/2024
 Examiner-License No.



Joaquin Velez PE No.68182
 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

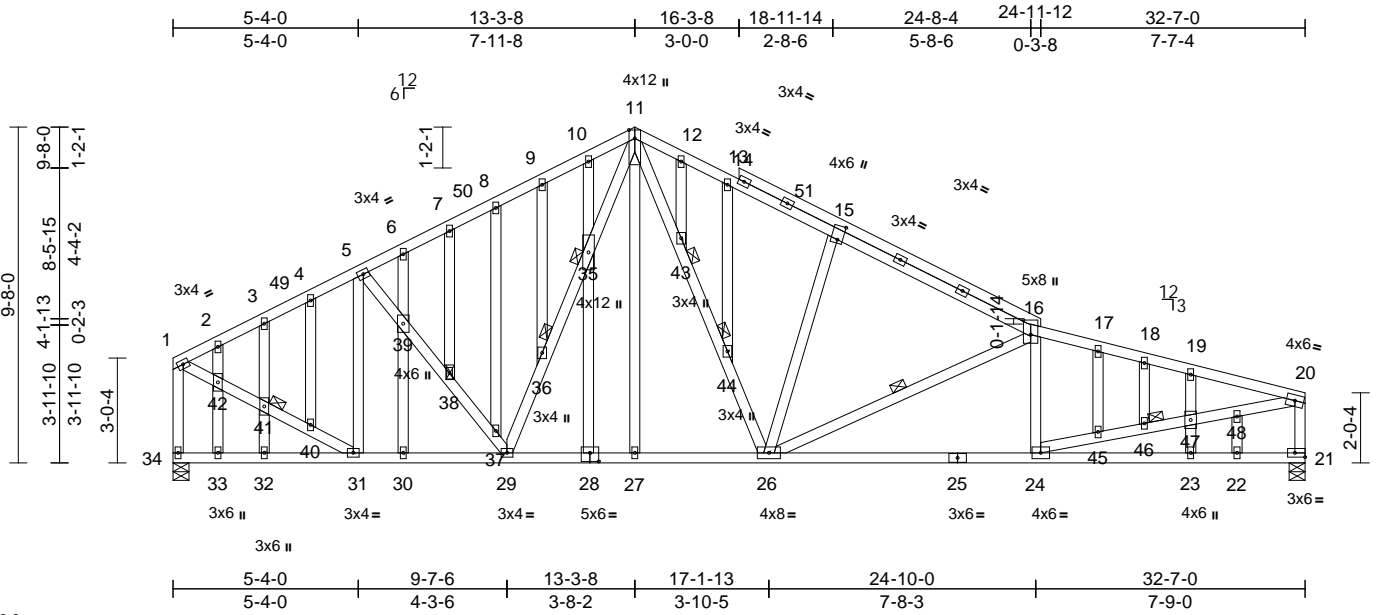
May 24, 2024

Job 3953285	Truss T04G	Truss Type Roof Special Structural Gable	Qty 1	Ply 1	Job Reference (optional) T33967407
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Thu May 23 08:17:59
 ID:qVwKa_rL0Xu684zzfvCg1JzDuRG-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRCDoi7J4zJC7f

Page: 1



Scale = 1:66.3

Plate Offsets (X, Y): [15:0-4-13,0-1-12], [16:0-5-0,0-2-8], [21:Edge,0-1-8], [28:0-3-0,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.62	Vert(LL)	-0.16	23-24	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.56	Vert(CT)	-0.25	23-24	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.04	21	n/a	n/a		
BCDL	5.0	Code	FBC2023/TPI2014	Matrix-S								
											Weight: 311 lb	FT = 20%

LUMBER
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3 *Except* 24-20:2x4 SP No.2
 OTHERS 2x4 SP No.3

BRACING
 TOP CHORD Structural wood sheathing directly applied or 3-8-5 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
 8-4-5 oc bracing: 24-26.

WEBS
 1 Row at midpt 16-26

JOINTS
 1 Brace at Jt(s): 35, 36, 38, 41, 43, 44, 46

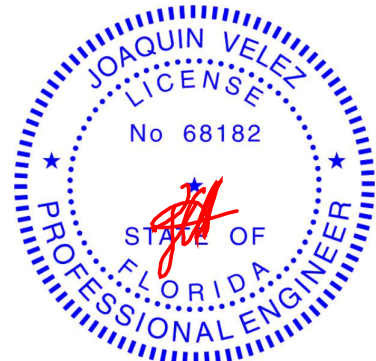
WEBS
 16-24=-261/115, 24-45=-421/1542, 45-46=-418/1523, 46-47=-422/1532, 47-48=-422/1528, 20-48=-421/1534, 29-36=-168/232, 35-36=-186/256, 11-35=-180/252, 15-26=-231/192, 5-31=-302/80, 5-39=-22/136, 38-39=-29/146, 37-38=-28/150, 29-37=-126/155, 10-35=-45/41, 28-35=-50/50, 9-36=-33/24, 8-37=-159/112, 7-38=-7/8, 6-39=-47/42, 30-39=-76/57, 4-40=-5/23, 3-41=-68/74, 32-41=-51/57, 2-42=-37/57, 33-42=-36/52, 12-43=-12/4, 13-44=-92/64, 1-42=-260/947, 41-42=-258/947, 40-41=-250/939, 31-40=-252/946, 11-43=-323/663, 43-44=-319/651, 26-44=-270/571, 16-26=-567/250, 11-27=-28/71, 17-45=-23/99, 18-46=-51/23, 23-47=-151/83, 19-47=-130/107, 22-48=-1/33

- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 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.
- All joints are assumed to be SP No.2.
- Provide mechanical connection of bottom chord to bearing plate capable of withstanding 280 lb uplift at joint 34 and 326 lb uplift at joint 21. PX2707 07/15/2024

REACTIONS (size) 21=0-5-8, 34=0-5-8
 Max Horiz 34=187 (LC 10)
 Max Uplift 21=326 (LC 13), 34=280 (LC 12)
 Max Grav 21=1033 (LC 1), 34=1033 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension
 TOP CHORD
 1-34=-957/303, 20-21=-915/303, 1-2=-998/288, 2-3=-983/302, 3-4=-981/340, 4-5=-946/344, 5-6=-1073/373, 6-7=-1062/389, 7-8=-1028/398, 8-9=-1064/433, 9-10=-1043/449, 10-11=-1024/472, 11-12=-1214/507, 12-13=-1240/499, 13-15=-1272/471, 15-16=-1377/439, 16-17=-1697/536, 17-18=-1743/539, 18-19=-1748/531, 19-20=-1760/507
 BOT CHORD
 33-34=-92/164, 32-33=-92/164, 31-32=-92/164, 30-31=-261/863, 29-30=-261/863, 27-29=-201/871, 26-27=-200/871, 24-26=-494/1675, 23-24=-97/179, 22-23=-97/179, 21-22=-97/179

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TC DL=4.2psf; BC DL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 0-1-12 to 3-4-14, Zone1 3-4-14 to 13-3-8, Zone2 13-3-8 to 17-10-13, Zone1 17-10-13 to 32-5-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - All plates are 2x4 MT20 unless otherwise indicated.



Joaquin Velez PE No.68182
 MiTek Inc. DBA MiTek USA FL Cert 6634
 16023 Swingley Ridge Rd. Chesterfield, MO 63017
 Date:

May 24, 2024

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 Chesterfield, MO 63017
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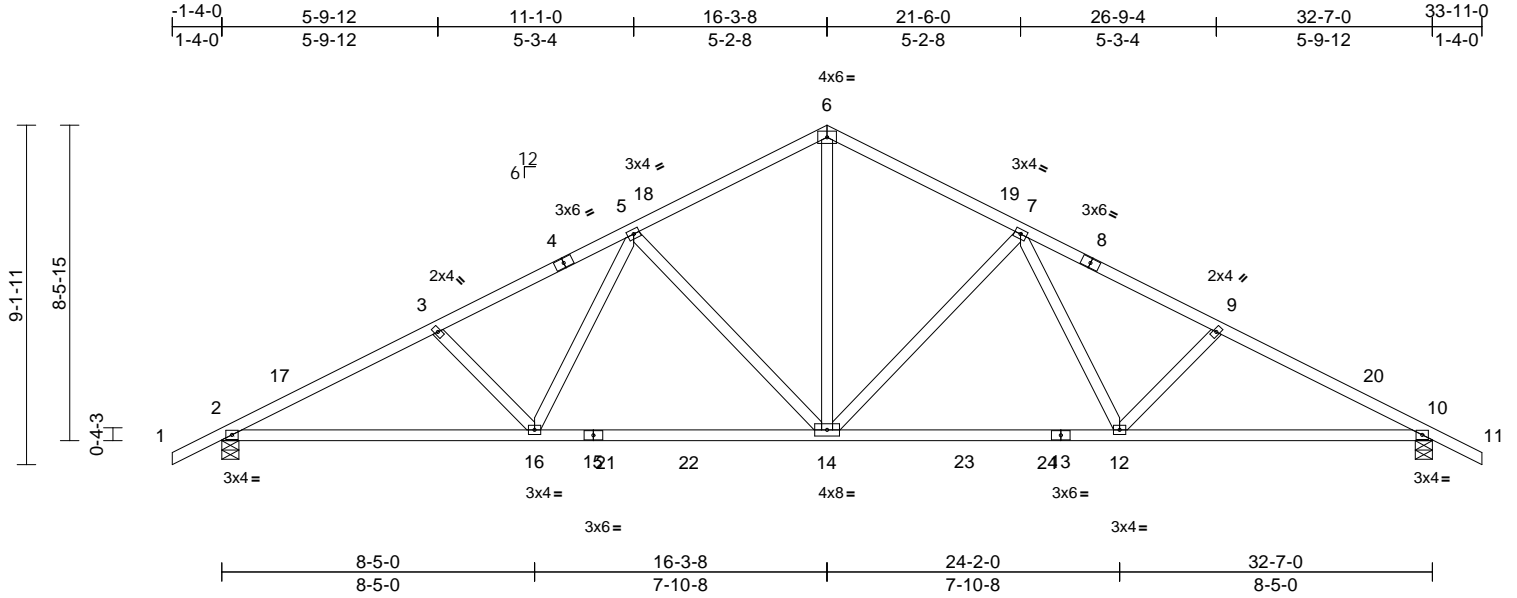
Job 3953285	Truss T05	Truss Type Common	Qty 6	Ply 1	Job Reference (optional) T33967408
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Thu May 23 08:17:59

Page: 1

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Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.34	Vert(LL)	-0.19	12-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.72	Vert(CT)	-0.27	12-14	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.09	10	n/a	n/a		
BCDL	5.0	Code	FBC2023/TPI2014	Matrix-S							Weight: 170 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 3-8-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-11-11 oc bracing.

REACTIONS (size) 2=0-5-8, 10=0-5-8
Max Horiz 2=147 (LC 16)
Max Uplift 2=-344 (LC 12), 10=-344 (LC 13)
Max Grav 2=1211 (LC 2), 10=1211 (LC 2)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/31, 2-3=-2075/548, 3-5=-1921/515, 5-6=-1344/407, 6-7=-1344/407, 7-9=-1921/515, 9-10=-2075/548, 10-11=0/31
BOT CHORD 2-16=-548/1802, 14-16=-370/1489, 12-14=-255/1489, 10-12=-401/1802
WEBS 6-14=-233/940, 7-14=-501/275, 7-12=-103/426, 9-12=-249/196, 3-16=-249/195, 5-16=-103/426, 5-14=-501/275

- NOTES**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior (2) zone and C-C Zone3 -1-4-0 to 1-11-2, Zone1 1-11-2 to 16-3-8, Zone2 16-3-8 to 20-10-13, Zone1 20-10-13 to 33-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

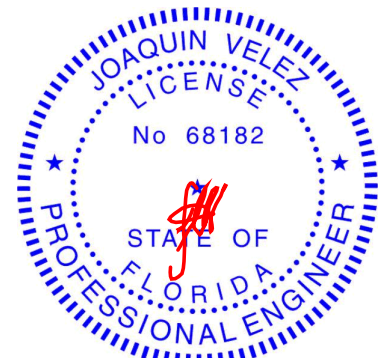
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 5.0psf.
 - All bearings are assumed to be SP No.2.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 344 lb uplift at joint 2 and 344 lb uplift at joint 10.
- LOAD CASE(S)** Standard



Review for Code Compliance
Universal Engineering Science

Lester Powell
Examiner-License No.

PX2707 07/15/2024



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

May 24, 2024

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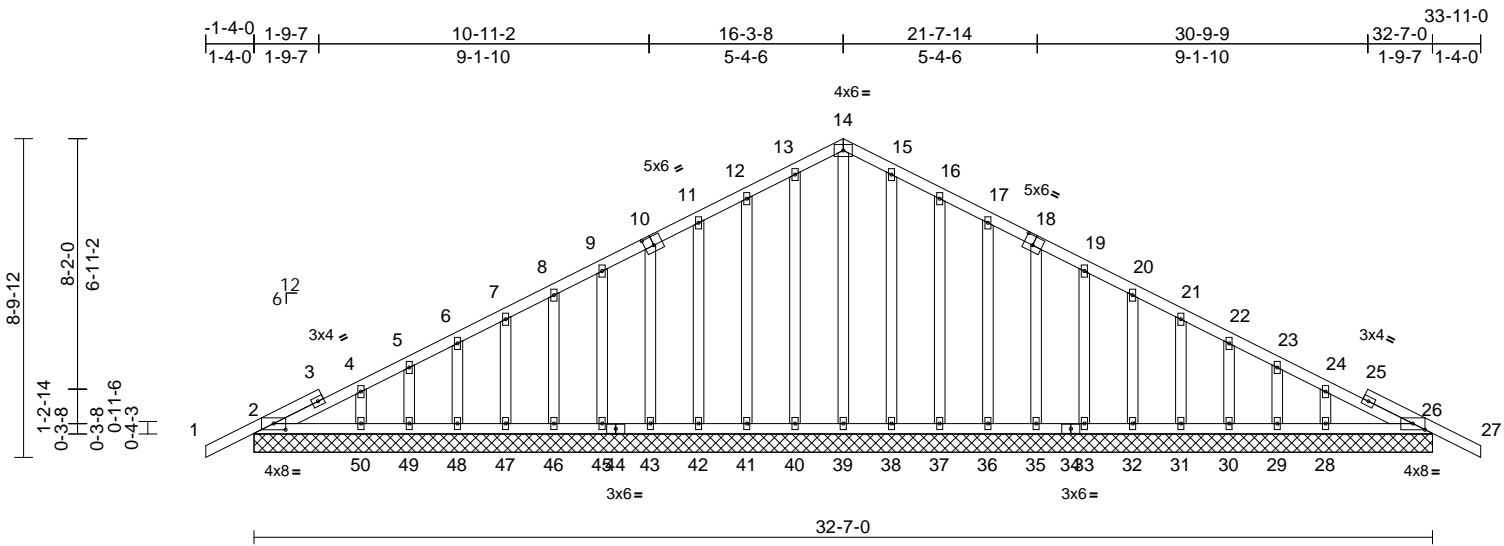
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 3953285	Truss T05G	Truss Type Common Supported Gable	Qty 1	Ply 1	Job Reference (optional) T33967409
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Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Thu May 23 08:17:59
ID:In0OowaT1gFBdfgCKgkRfzDuNI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRCDoi7J4zJC?

Page: 1



Scale = 1:63.7

Plate Offsets (X, Y): [2:0-4-0,0-2-1], [10:0-3-0,0-3-0], [18:0-3-0,0-3-0], [26:0-4-0,0-2-1]

Loading	(psf)	Spacing	2-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.25	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.01	26	n/a	n/a		
BCDL	5.0	Code	FBC2023/TPI2014	Matrix-S								
											Weight: 240 lb	FT = 20%

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

BRACING
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size)
2=32-7-0, 26=32-7-0, 28=32-7-0,
29=32-7-0, 30=32-7-0, 31=32-7-0,
32=32-7-0, 33=32-7-0, 35=32-7-0,
36=32-7-0, 37=32-7-0, 38=32-7-0,
39=32-7-0, 40=32-7-0, 41=32-7-0,
42=32-7-0, 43=32-7-0, 45=32-7-0,
46=32-7-0, 47=32-7-0, 48=32-7-0,
49=32-7-0, 50=32-7-0

Max Horiz 2=142 (LC 12)
Max Uplift 2=-37 (LC 8), 26=-39 (LC 13),
28=-39 (LC 13), 29=-43 (LC 13),
30=-45 (LC 13), 31=-45 (LC 13),
32=-45 (LC 13), 33=-45 (LC 13),
35=-45 (LC 13), 36=-44 (LC 13),
37=-52 (LC 13), 38=-27 (LC 13),
40=-33 (LC 12), 41=-50 (LC 12),
42=-44 (LC 12), 43=-45 (LC 12),
45=-46 (LC 12), 46=-45 (LC 12),
47=-45 (LC 12), 48=-45 (LC 12),
49=-45 (LC 12), 50=-48 (LC 12)

Max Grav 2=174 (LC 1), 26=174 (LC 1),
28=148 (LC 1), 29=64 (LC 26),
30=90 (LC 1), 31=84 (LC 26),
32=85 (LC 1), 33=87 (LC 26),
35=86 (LC 1), 36=84 (LC 1), 37=86
(LC 26), 38=88 (LC 26), 39=134
(LC 13), 40=88 (LC 25), 41=86 (LC
25), 42=84 (LC 1), 43=86 (LC 1),
45=87 (LC 25), 46=85 (LC 1),
47=84 (LC 25), 48=90 (LC 1),
49=64 (LC 25), 50=148 (LC 1)

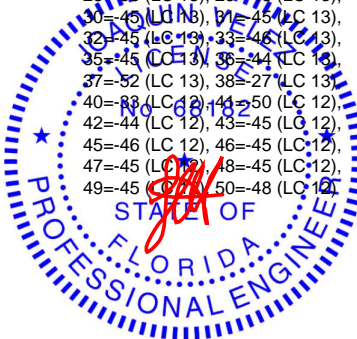
WEBS
14-39=-155/40, 13-40=-75/41, 12-41=-73/74,
11-42=-71/64, 10-43=-72/65, 9-45=-73/66,
8-46=-72/65, 7-47=-72/65, 6-48=-75/67,
5-49=-58/61, 4-50=-119/92, 15-38=-75/41,
16-37=-73/74, 17-36=-71/64, 18-35=-72/65,
19-33=-73/66, 20-32=-72/65, 21-31=-72/65,
22-30=-75/67, 23-29=-58/61, 24-28=-119/91

- NOTES**
- 1) Uplift and live loads have been considered for the design.
 - 2) Wind: ASCE 7-22, Vult=130mph (3-second gust) Vag=101mph; TC DL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II. Exposed/W/WFRS (envelope) except for (2) zone and C-C zones; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD
1-2=0/31, 2-4=-162/68, 4-5=-125/76,
5-6=-97/84, 6-7=-72/92, 7-8=-51/109,
8-9=-41/125, 9-11=-59/165, 11-12=-71/199,
12-13=-84/237, 13-14=-92/260,
14-15=-92/260, 15-16=-84/237,
16-17=-71/199, 17-19=-59/165,
19-20=-34/96, 20-21=-22/62, 21-22=-21/30,
22-23=-35/25, 23-24=-62/22, 24-26=-102/48,
26-27=0/31

BOT CHORD
2-50=-50/147, 49-50=-50/147,
48-49=-50/147, 47-48=-50/147,
46-47=-50/147, 45-46=-50/147,
43-45=-50/147, 42-43=-50/146,
41-42=-50/146, 40-41=-50/146,
39-40=-50/146, 38-39=-50/146,
37-38=-50/146, 36-37=-50/146,
35-36=-50/146, 33-35=-50/147,
32-33=-50/147, 31-32=-50/147,
30-31=-50/147, 29-30=-50/147,
28-29=-50/147, 26-28=-50/147



Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

May 24, 2024

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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

MiTek®

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
3953285	T05G	Common Supported Gable	1	1	T33967409

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

Run: 8.73 S Apr 25 2024 Print: 8.730 S Apr 25 2024 MiTek Industries, Inc. Thu May 23 08:17:59
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Page: 2

- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) All bearings are assumed to be SP No.2 .
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 2, 39 lb uplift at joint 26, 33 lb uplift at joint 40, 50 lb uplift at joint 41, 44 lb uplift at joint 42, 45 lb uplift at joint 43, 46 lb uplift at joint 45, 45 lb uplift at joint 46, 45 lb uplift at joint 47, 45 lb uplift at joint 48, 45 lb uplift at joint 49, 48 lb uplift at joint 50, 27 lb uplift at joint 38, 52 lb uplift at joint 37, 44 lb uplift at joint 36, 45 lb uplift at joint 35, 46 lb uplift at joint 33, 45 lb uplift at joint 32, 45 lb uplift at joint 31, 45 lb uplift at joint 30, 43 lb uplift at joint 29 and 56 lb uplift at joint 28.

LOAD CASE(S) Standard



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 Universal Engineering Science

Lauren Powell
 Examiner-License No.

PX2707

07/15/2024

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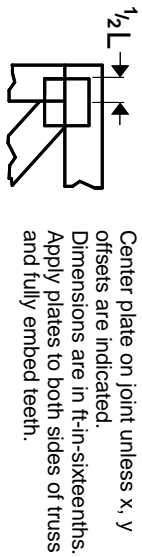
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP11 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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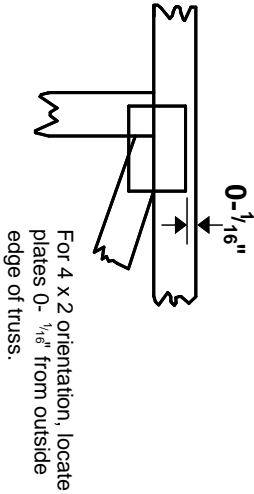
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Symbols

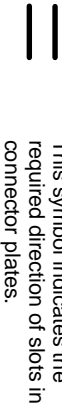
PLATE LOCATION AND ORIENTATION



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 MITtek software or upon request.

PLATE SIZE

4 X 4

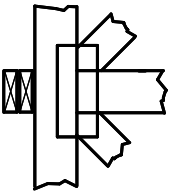
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

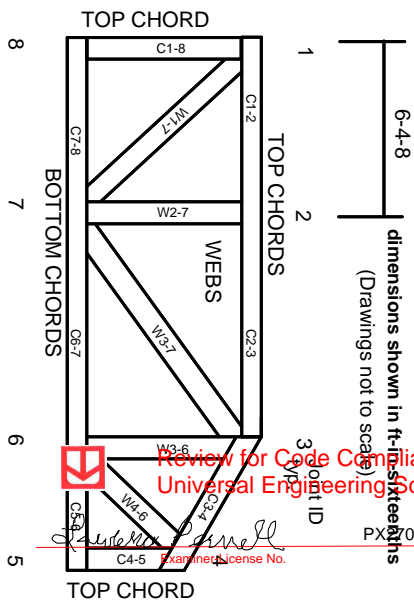


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

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-1-1988, ESR-2-362, ESR-2-685, ESR-3-282
ESR-4-722, ESL-1-388

Design General Notes

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

Lumber design values are in accordance with ANSI/TP1 1 section 6.3. These truss designs rely on lumber values established by others.

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General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. 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.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. 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.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

MITek®

MITek Engineering Reference Sheet: Mill-7473 rev. 1/2/2023

CAUTION!!!

DO NOT ATTEMPT TO ERECT TRUSSES WITHOUT REFERRING TO THE ENGINEERING DRAWINGS AND BSCI-B1 SUMMARY SHEETS.

ALL PERMANENT BRACING MUST BE IN PLACE PRIOR TO LOADING TRUSSES. (ie. SHEATHING, SHINGLES, ETC.)

ALL INTERIOR BEARING WALLS MUST BE IN PLACE PRIOR TO INSTALLING TRUSSES.

REFER TO FINAL ENGINEERING SHEETS FOR THE FOLLOWING.

- 1) NUMBER OF GIRDER PLIES AND NAILING SCHEDULE.
- 2) BEARING BLOCK REQUIREMENTS.
- 3) SCAB DETAILS (IF REQUIRED)
- 4) UPLIFT AND GRAVITY REACTIONS.

WARNING
Backcharges Will Not Be Accepted Regardless of Fault Without Prior Notification By Customer Within 48 Hours And Investigation By Builders FirstSource.
NO EXCEPTIONS.

The General Contractor Is Responsible For All Connections Other Than Truss to Truss, Gable Shear Wall, And Connections. Temporary and Permanent Bracing, And Ceiling And Roof Diaphragm Connections.

IMPORTANT
This Drawing Must Be Approved And Returned Before Fabrication Will Begin. For Your Protection Check All Dimensions And Conditions Prior To Approval Of Plan.
SIGNATURE BELOW INDICATES ALL NOTES AND DIMENSIONS HAVE BEEN ACCEPTED.

By _____ Date _____

VERIFY ALL DIMENSIONS AND CEILING CONDITIONS PRIOR TO APPROVAL. SOME CEILING FRAMING REQUIRED IN FIELD BY BUILDER

LOADING:
TCLL: 20.0 lb/ft²
TCCL: 7.0 lb/ft²
BCLL: 0.0 lb/ft²
BCCL: 5.0 lb/ft²

WIND_ASCE_HYBRID_22
Enclosed
SuburbanAreas
OCCUPANCY CATEGORY II
WIND VELOCITY 130 mph
WIND IMPORTANCE FACTOR 1.00

REVISIONS:

1.	
2.	
3.	
4.	

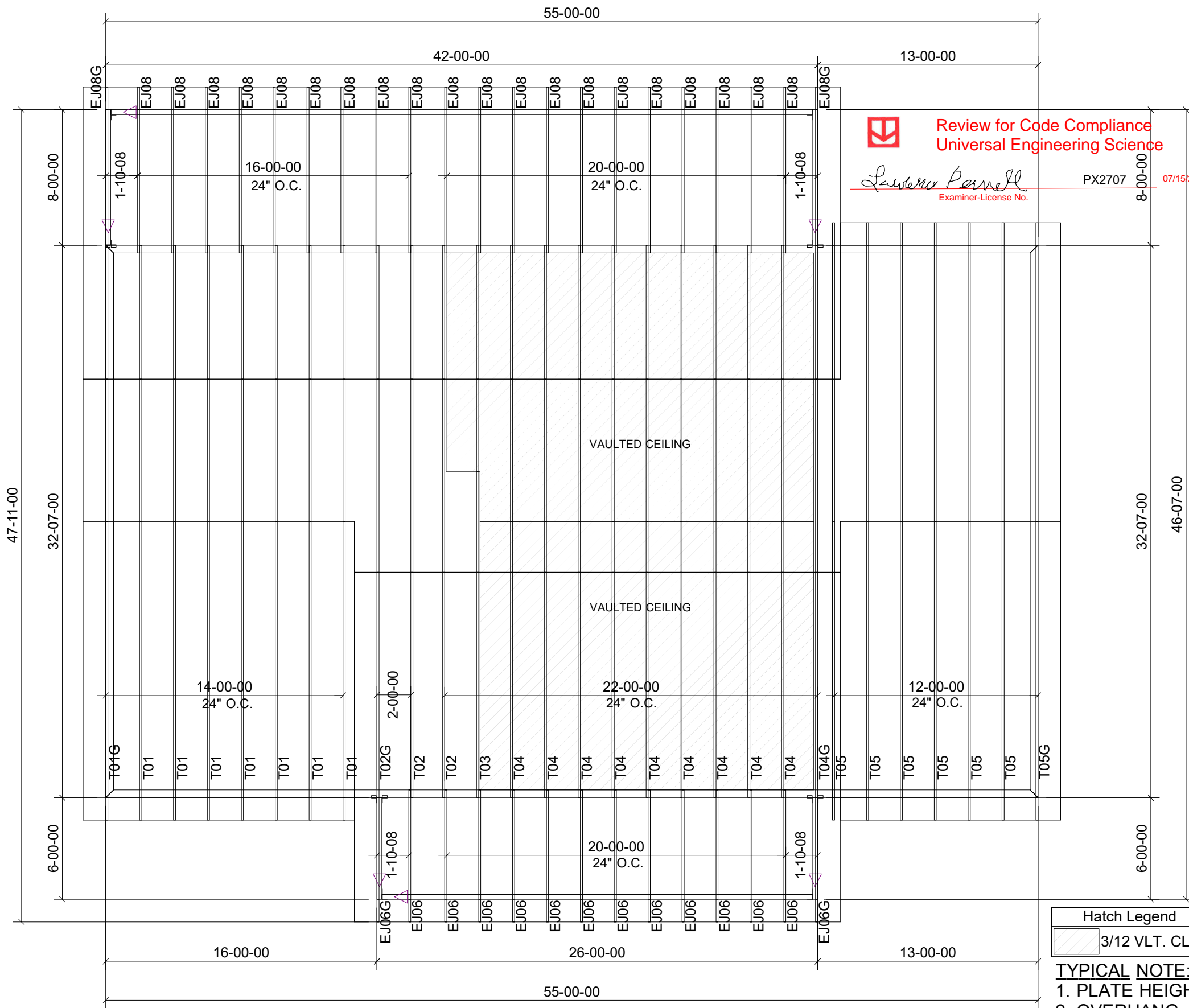


BEARING HEIGHT SCHEDULE

BUILDER:	
Hudsen Homes	
PROJECT:	King Res
MODEL:	
ADDRESS:	
LOT / BLOCK:	
SUBDIVISION:	
CITY:	Lake City
DRAWN BY:	VJR
JOB # :	3953285
DATE:	5/24/24
SCALE:	NTS

Material Summary

Symbol	Material	Quantity



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Hatch Legend
3/12 VLT. CLG.

TYPICAL NOTE:
1. PLATE HEIGHT = 9'-1" 2/16
2. OVERHANG = 16"
3. ROOF PITCH = 6 : 12