

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

RE: 3213343 - AARON SIMQUE - LOT 62 MIL SUITE

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

Site Information:

Customer Info: Aaron Simque Homes Project Name: MIL Suite Model: Custom

Lot/Block: 62 Subdivision: Preserve at Laurel Lake

Address: TBD, TBD

City: Columbia Cty 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: FBC2020/TPI2014 Design Program: MiTek 20/20 8.5

Wind Code: ASCE 7-16 Wind Speed: 130 mph Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 11 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	T28119685	T01	6/28/22
2	T28119686	T01G	6/28/22
2 3	T28119687	T02	6/28/22
4	T28119688	T02G	6/28/22
5	T28119689	T03	6/28/22
6	T28119690	T03G	6/28/22
7	T28119691	T04	6/28/22
8	T28119692	T05_	6/28/22
9	T28119693	<u>T</u> 05G	6/28/22
10	T28119694	T06_	6/28/22
11	T28119695	T07G	6/28/22



Review for Code Compliance Universal Engineering Science

Landerer Pernell

PX2707

06/30/2022

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature.

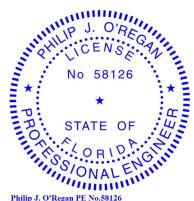
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The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource-Lake City, FL.

Truss Design Engineer's Name: ORegan, Philip

My license renewal date for the state of Florida is February 28, 2023.

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.



Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

June 28,2022

AARON SIMQUE - LOT 62 MIL SUITE Job Truss Truss Type Qty Ply T28119685 3213343 T01 3 Common Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jun 27 14:25:26 2022 Page 1 ID:NiQ7mGOyLBB90?IYMNBIh5zwWCE-WuhFhWthkOXMpgIrDPsTdldMGLhw750ljgkX11z22xN 13-0-0 26-0-0 27-6-0 1-6-0 6-6-0 6-6-0 Scale = 1:55.3 4x6 || 8.00 12 5x6 🖊 5x6 > 20 9 21 10 19 22 23 8 3x6 = 3x4 =3x4 =3x6 × 3x6 // 16-11-2 26-0-0 9-0-14 7-10-3 9-0-14 Plate Offsets (X,Y)--[2:0-1-5,0-1-8], [3:0-3-0,0-3-0], [5:0-3-0,0-3-0], [6:0-1-5,0-1-8] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.49 Vert(LL) 0.26 8-16 >999 240 MT20 244/190 TCDL Lumber DOL вс 0.78 Vert(CT) 7.0 1.25 -0.32 8-16 >979 180 0.0 WB **BCLL** Rep Stress Incr YES 0.27 Horz(CT) 0.04 6 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MS Weight: 133 lb FT = 20% LUMBER-**BRACING-**TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 4-4-0 oc purlins. **BOT CHORD** 2x4 SP No 2 BOT CHORD Rigid ceiling directly applied or 5-11-2 oc bracing. 2x4 SP No 3 WFBS **WEBS** 1 Row at midpt Review for Code Compliance REACTIONS. (size) 2=0-3-8, 6=0-3-8 Universal Engineering Science

Max Horz 2=-213(LC 10)

Max Uplift 2=-223(LC 12), 6=-223(LC 13) Max Grav 2=1125(LC 2), 6=1125(LC 2)

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

2-3=-1484/1013, 3-4=-1363/1053, 4-5=-1363/1053, 5-6=-1484/1013

BOT CHORD 2-10=-757/1204, 8-10=-419/799, 6-8=-768/1204

WFBS 4-8=-579/644, 5-8=-355/244, 4-10=-579/644, 3-10=-355/244

NOTES-

TOP CHORD

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 13-0-0, Exterior(2R) 13-0-0 to 16-0-0, Interior(1) 16-0-0 to 27-6-0 zone; porch 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 223 lb uplift at joint 2 and 223 lb uplift at

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06/30/2022

PX2707

Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

June 28,2022

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

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

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



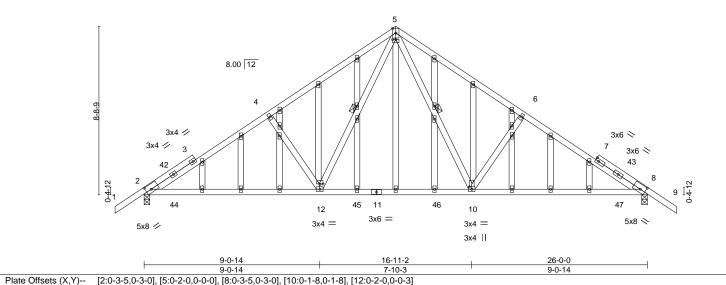
Chesterfield, MO 63017

Job Truss Truss Type Qty Ply AARON SIMQUE - LOT 62 MIL SUITE T28119686 3213343 T01G **GABLE** Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jun 27 14:25:28 2022 Page 1 ID:NiQ7mGOyLBB90?IYMNBIh5zwWCE-TGp06BvxG?o42zSELqvxiAjcy8MYb?02A_De5wz22xL 13-0-0 26-0-0 27-6-0

6-6-0

Scale = 1:59.5

4x6 II



1 tate 2 field 2 fix 1 fix 1 fix 1 fix 2 fix 2 fix 2 fix						
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP	
TCLL	20.0	Plate Grip DOL 1.25	TC 0.86	Vert(LL) 0.27 10-41 >999 240	MT20 244/190	
TCDL	7.0	Lumber DOL 1.25	BC 0.77	Vert(CT) -0.29 12-38 >999 180		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.31	Horz(CT) 0.03 8 n/a n/a		
BCDL	10.0	Code FBC2020/TPI2014	Matrix-MS		Weight: 211 lb FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

REACTIONS.

(size) 2=0-3-8, 8=0-3-8 Max Horz 2=205(LC 11)

Max Uplift 2=-225(LC 12), 8=-225(LC 13) Max Grav 2=1119(LC 2), 8=1119(LC 2)

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PX2707

Structural wood sheathing directly applied or 2-2-0 oc purlins.

5-10. 5-12

Rigid ceiling directly applied or 5-3-9 oc bracing.

Review for Code Compliance

Universal Engineering Science

6-6-0

06/30/2022

1 Row at midpt

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-1526/1216, 4-5=-1409/1248, 5-6=-1409/1248, 6-8=-1526/1216

6-6-0

2-12=-950/1276, 10-12=-496/809, 8-10=-956/1276 BOT CHORD

WEBS 5-10=-688/675, 6-10=-394/304, 5-12=-688/675, 4-12=-394/304

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 13-0-0, Corner(3R) 13-0-0 to 16-0-0, Exterior(2N) 16-0-0 to 27-6-0 zone; porch 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) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 225 lb uplift at joint 2 and 225 lb uplift at ioint 8.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

June 28,2022

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

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

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



AARON SIMQUE - LOT 62 MIL SUITE Job Truss Truss Type Qty Ply T28119687 3213343 T02 Common Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jun 27 14:25:29 2022 Page 1 ID:NiQ7mGOyLBB90?IYMNBlh5zwWCE-xSNOJXwa1Jwxg71QuXQAFOFtJYiKKRtBPeyCdMz22xK 13-0-0 26-0-0 6-6-0 6-6-0 6-6-0 6-6-0 Scale = 1:54.2 4x6 || 4 8.00 12 16 5x6 / 2x4 // 8 3x6 = 3x4 =3x4 =3x6 > 3x6 / 16-11-2 26-0-0 9-0-14 7-10-3 9-0-14 Plate Offsets (X,Y)--[2:0-1-5,0-1-8], [3:0-3-0,0-3-0], [6:0-1-5,0-1-8] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.50 Vert(LL) -0.15 7-12 >999 240 MT20 244/190 TCDL вс 0.80 Vert(CT) 7.0 Lumber DOL 1.25 -0.32 7-12 >961 180 0.0 WB **BCLL** Rep Stress Incr YES 0.33 Horz(CT) 0.04 6 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MS Weight: 130 lb FT = 20% LUMBER-**BRACING-**TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 4-2-12 oc purlins. **BOT CHORD** 2x4 SP No 2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SP No 3 WFBS Review for Code Compliance REACTIONS. (size) 6=Mechanical, 2=0-3-8 Universal Engineering Science Max Horz 2=206(LC 11)

Max Uplift 6=-190(LC 13), 2=-223(LC 12) Max Grav 6=1101(LC 20), 2=1178(LC 19)

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PX2707 06/30/2022

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

TOP CHORD 2-3=-1523/277, 3-4=-1405/318, 4-5=-1413/324, 5-6=-1531/285

BOT CHORD 2-9=-277/1362, 7-9=-77/878, 6-7=-169/1228

WFBS 4-7=-186/730, 5-7=-371/248, 4-9=-179/718, 3-9=-365/244

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 13-0-0, Exterior(2R) 13-0-0 to 16-0-0, Interior(1) 16-0-0 to 26-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 190 lb uplift at joint 6 and 223 lb uplift at ioint 2.

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Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

June 28,2022

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

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



Job Truss Truss Type Qty Ply AARON SIMQUE - LOT 62 MIL SUITE T28119688 3213343 T02G Common Supported Gable Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jun 27 14:25:30 2022 Page 1 ID:NiQ7mGOyLBB90?IYMNBIh5zwWCE-PfwmWtwCoc2nHHbcSFxPnbo7qyEA3xHLelilAoz22xJ 26-0-0 13-0-0 13-0-0 1-6-0 Scale = 1:57.9 4x4 = 8.00 12 10 11 3x6 // 12 ^{3x6} ≈ 13 14 15 3 31 3x6 = 3x6 = 28 27 26 25 24 23 22 21 20 19 18 3x6 = 26-0-0 26-0-0 Plate Offsets (X,Y)--[16:0-2-3, Edge] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.13 Vert(LL) -0.01 17 n/r 120 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.06 Vert(CT) -0.01 17 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.13 Horz(CT) 0.01 16 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-S Weight: 171 lb FT = 20% **BRACING-**

LUMBER-

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

2x4 SP No 3 OTHERS

REACTIONS. All bearings 26-0-0.

Max Horz 2=-213(LC 10)

Max Horz 2=-213(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 25, 26, 27, 28, 29, 23, 21, 20, 19, 18, 16
Max Grav All reactions 250 lb or less at joint(s) 2, 24, 25, 26, 27, 28, 29, 23, 21, 20, 19, 18

1 Row at midpt 9-24 INSTALLED ADJACENT TO SCISSOR TRUSSES UNLESS

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

Structural wood sheathing directly applied or 6-0-0 oc purlins.

18, 16 SPECIAL OUT OF PLANE WALL BRACING IS SPECIFIED

OF OLD THE ENGINEER OF RECORD. 06/30/2022

Examiner-License No

TOP CHORD

BOT CHORD

WEBS

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 13-0-0, Corner(3R) 13-0-0 to 16-0-0, Exterior(2N) 16-0-0 to 27-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
- 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) Gable requires continuous bottom chord bearing
- 7) Gable studs spaced at 2-0-0 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 25, 26, 27, 28, 29, 23, 21, 20, 19, 18, 16.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

June 28,2022

AARON SIMQUE - LOT 62 MIL SUITE Job Truss Truss Type Qty Ply T28119689 3213343 T03 3 Scissor Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jun 27 14:25:32 2022 Page 1 ID:NiQ7mGOyLBB90?IYMNBlh5zwWCE-L12XxZySKEIVXbl?agztt0tLPmmMXkUe5cBsEhz22xH 13-0-0 26-0-0 6-6-0 6-6-0 Scale = 1:55.4 4x6 = 4 8.00 12 3x6 <> 5x8 = 4-2-13 2x4 || 2x4 || 4.00 12 3x6 > 3x6 = 6-6-0 13-0-0 19-6-0 26-0-0 6-6-0 6-6-0 6-6-0 6-6-0 Plate Offsets (X,Y)--[2:0-2-10,0-1-8], [3:0-3-0,0-3-0], [6:0-2-10,0-1-8] LOADING (psf) SPACING-CSI. DEFL. in (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.70 Vert(LL) -0.19 8-9 >999 240 MT20 244/190 TCDL 1.25 вс 0.65 Vert(CT) 7.0 Lumber DOL -0.39 8-9 >793 180 0.0 WB 0.59 **BCLL** Rep Stress Incr YES Horz(CT) 0.32 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MS Weight: 122 lb FT = 20% LUMBER-**BRACING-**2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins. 2x4 SP No 2 **BOT CHORD** Rigid ceiling directly applied or 8-0-2 oc bracing.

TOP CHORD **BOT CHORD** 2x4 SP No 3 WFBS

REACTIONS. (size) 6=0-3-8, 2=0-3-8

Max Horz 2=206(LC 9)

Max Uplift 6=-189(LC 13), 2=-223(LC 12) Max Grav 6=960(LC 1), 2=1045(LC 1)

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

2-3=-2581/557, 3-4=-1808/311, 4-5=-1807/342, 5-6=-2597/445 TOP CHORD 2-9=-541/2216, 8-9=-541/2226, 7-8=-323/2221, 6-7=-323/2216 BOT CHORD WFBS 4-8=-235/1553, 5-8=-733/380, 5-7=0/256, 3-8=-712/362, 3-9=0/251

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 13-0-0, Exterior(2R) 13-0-0 to 16-0-0, Interior(1) 16-0-0 to 26-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members
- 6) Bearing at joint(s) 6, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=189, 2=223,

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06/30/2022

Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

June 28,2022

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

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



Review for Code Compliance

Universal Engineering Science

PX2707

Job Truss Truss Type Qty Ply AARON SIMQUE - LOT 62 MIL SUITE T28119690 3213343 T03G Common Supported Gable Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jun 27 14:25:33 2022 Page 1 ID:NiQ7mGOyLBB90?IYMNBlh5zwWCE-pEcv9vz45XQM8kKB7NU6PEQe39GvGJCnKGwPm7z22xG 26-0-0 1-6-0 13-0-0 Scale = 1:57.1 4x4 = 10 8.00 12 11 6 12 Ø 5 13 29 3x4 // 14 15 4x8 || 3x6 💸 27 26 25 20 17 24 23 22 21 19 18 16 3x6 =26-0-0 26-0-0 Plate Offsets (X,Y)--[2:0-3-8,Edge] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES GRIP**

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

TCLL

TCDL

BCLL

BCDL

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

20.0

7.0

0.0

10.0

REACTIONS. All bearings 26-0-0.

Max Horz 2=198(LC 11)

Max Horz 2=198(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 2, 15, 22, 24, 25, 26, 27, 20, 19, 18, 17, 16

Max Grav All reactions 250 lb or less at joint(s) 2, 15, 21, 22, 24, 25, 26, 27, 20, 19, 18, 17

1.25

1.25

YES

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0.00

-0.00

0.01

15

1 Row at midpt

Universellation Chord Gable Trusses are not to be

Structural wood sheathing directly applied or 6-0-0 oc purlins.

9-21

INSTALLED ADJACENT TO SCISSOR TRUSSES UNLESS SPECIFIED SPECIFIED OF PLANT WALL BRAGING IS SPECIFIED OF RECORD.

MT20

Weight: 164 lb

244/190

FT = 20%

Examiner-Licer

n/r

n/r

n/a

120

120

n/a

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

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

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

Plate Grip DOL

Rep Stress Incr

Code FBC2020/TPI2014

Lumber DOL

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 13-0-0, Corner(3R) 13-0-0 to 16-0-0, Exterior(2N) 16-0-0 to 25-7-1 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate

ТС

BC

WB

Matrix-S

0.13

0.06

0.12

- 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) Gable requires continuous bottom chord bearing
- 7) Gable studs spaced at 2-0-0 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 15, 22, 24, 25, 26, 27, 20, 19, 18, 17, 16.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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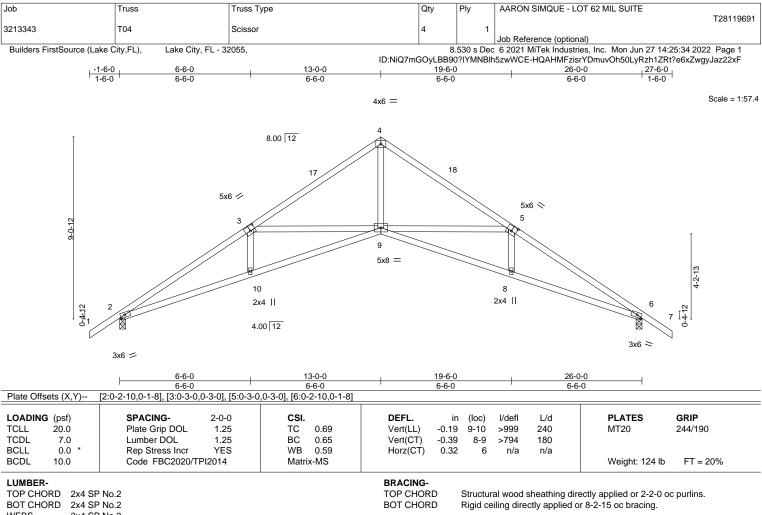
June 28,2022

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BOT CHORD 2x4 SP No 3 WFBS

REACTIONS.

(size) 2=0-3-8, 6=0-3-8 Max Horz 2=213(LC 11)

Max Uplift 2=-222(LC 12), 6=-222(LC 13) Max Grav 2=1043(LC 1), 6=1043(LC 1)



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

TOP CHORD BOT CHORD WFBS

2-3=-2573/540, 3-4=-1800/293, 4-5=-1800/324, 5-6=-2573/397 2-10=-511/2234, 9-10=-510/2244, 8-9=-259/2203, 6-8=-259/2192 4-9=-213/1541, 5-9=-723/374, 5-8=0/251, 3-9=-711/363, 3-10=0/251

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 13-0-0, Exterior(2R) 13-0-0 to 16-0-0, Interior(1) 16-0-0 to 27-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members
- 6) Bearing at joint(s) 2, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=222, 6=222.

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AARON SIMQUE - LOT 62 MIL SUITE Job Truss Truss Type Qty Ply T28119692 3213343 T05 Common Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jun 27 14:25:35 2022 Page 1 ID:NiQ7mGOyLBB90?IYMNBlh5zwWCE-lckfab_Kd9g4O2UaFoXaUfVySzl2k4M4naPWr0z22xE 14-6-4 9-10-0 19-8-0 21-2-0 1-6-0 4-8-4 5-1-12 Scale = 1:42.5 4x6 || 4 18 8.00 12 2x4 || 2x4 || 3 0-4-12 9 19 20 10 3x6 = 3x4 = 3x6 = 3x4 =3x6 = 5-1-12 19-8-0 5-1-12 9-4-8 5-1-12 Plate Offsets (X,Y)--[6:0-2-3,Edge] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.25 ТС 0.27 Vert(LL) -0.27 8-10 >645 240 MT20 244/190 TCDL Lumber DOL 0.78 Vert(CT) 7.0 1.25 BC -0.43 8-10 >410 180 0.0 WB 0.65 **BCLL** Rep Stress Incr YES Horz(CT) 0.01 8 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MS Weight: 103 lb FT = 20% LUMBER-**BRACING-**TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing.

BOT CHORD 2x4 SP No.2 2x4 SP No 3 WFBS

REACTIONS. (size) 2=0-3-8, 8=0-3-8, 6=0-3-8

Max Horz 2=166(LC 11)

Max Grav 2=667(LC 19), 8=933(LC 2), 6=234(LC 24)

Max Uplift 2=-144(LC 12), 8=-149(LC 13), 6=-67(LC 13)

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FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-810/127. 3-4=-855/271

BOT CHORD 2-10=-121/730 8-10=-33/285

WFBS 4-8=-520/82, 5-8=-299/223, 4-10=-218/771, 3-10=-291/221

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 9-10-0, Exterior(2R) 9-10-0 to 12-10-0, Interior(1) 12-10-0 to 21-2-0 zone; porch 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 2=144, 8=149.

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June 28,2022

AARON SIMQUE - LOT 62 MIL SUITE Job Truss Truss Type Qty Ply T28119693 3213343 T05G **GABLE** Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jun 27 14:25:36 2022 Page 1 ID:NiQ7mGOyLBB90?IYMNBlh5zwWCE-Epl1nx?zOSox0C3mpV2p1s26EN5TTZqD0E93NSz22xD 9-10-0 14-6-4 19-8-0 4-8-4 Scale = 1:47.0 3x6 = 4x6 || 5 3x4 // 1 3x4 / 8.00 12 30 3x6 II 3x4 < ⊠ 10 11 31 32 12 3x6 = 3x4 =5x8 × 5x8 🗸 5-1-12 19-8-0 9-2-12 5-1-12 5-1-12 Plate Offsets (X,Y)--[2:0-3-5,0-3-0], [3:0-0-9,0-1-0], [5:0-3-0,0-0-4], [8:0-3-5,0-3-0] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.26 Vert(LL) -0.26 10-12 >676 240 MT20 244/190 TCDL Vert(CT) 7.0 Lumber DOL 1.25 BC 0.77 -0.41 10-12 >421 180 WB **BCLL** 0.0 Rep Stress Incr YES 0.57 Horz(CT) 0.01 10 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MS Weight: 140 lb FT = 20% LUMBER-**BRACING-**TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. **BOT CHORD** 2x4 SP No 2 **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing.

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

REACTIONS.

Max Horz 2=-159(LC 10)

Max Uplift 2=-142(LC 12), 8=-46(LC 13), 10=-179(LC 13) Max Grav 2=676(LC 19), 8=220(LC 24), 10=910(LC 2)

(size) 2=0-3-8, 8=0-3-8, 10=0-3-8

Laudence Pernell

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

TOP CHORD 2-3=-831/121, 3-5=-875/261 **BOT CHORD** 2-12=-120/758. 10-12=-24/301

WEBS 5-10=-491/111, 6-10=-280/213, 5-12=-215/764, 3-12=-280/222

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 9-10-0, Exterior(2R) 9-10-0 to 12-10-0, Interior(1) 12-10-0 to 21-2-0 zone; porch 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) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 2=142. 10=179.

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Job Truss Truss Type Qty Plv AARON SIMQUE - LOT 62 MIL SUITE T28119694 3213343 T06 Common Girder 2 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jun 27 14:25:38 2022 Page 1 ID:NiQ7mGOyLBB90?IYMNBIh5zwWCE-ABPoCc1Dw42fFWD9ww4H6H7SQAvJxTwWTYeASLz22xB 9-10-0 14-8-0 Scale = 1:41.3 4x4 = 3 8.00 12 4x6 <> 3x8 🗸 3-8 15 💆 10 11 12 13 14 7 6 4x8 = 3x8 II 7x8 = 3x6 || 5-1-12 9-10-0 14-8-0 5-1-12 4-10-0 4-8-4 Plate Offsets (X,Y)--[1:0-4-0,0-1-9], [6:0-2-0,0-5-4], [7:0-5-4,0-1-8] LOADING (psf) SPACING-CSI. DEFL. (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.28 Vert(LL) -0.05 7-9 >999 240 MT20 244/190 TCDL Vert(CT) 7.0 Lumber DOL 1.25 BC 0.30 -0.09 7-9 >999 180

LUMBER-

BCLL

BCDL

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x8 SP 2400F 2.0E 2x4 SP No 3 WFBS

0.0

10.0

REACTIONS. (size) 1=0-3-8, 5=0-3-8

Max Horz 1=165(LC 27)

Max Uplift 1=-716(LC 8), 5=-872(LC 8)

Rep Stress Incr

Code FBC2020/TPI2014

Max Grav 1=3710(LC 2), 5=4485(LC 2)

BRACING-

Horz(CT)

TOP CHORD Structural wood sheathing directly applied or 5-3-1 oc purlins,

n/a

except end verticals.

n/a

5

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Review for Code Compliance

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0.02

PX2707 06/30/2022

Weight: 211 lb

FT = 20%

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-5334/1032, 2-3=-2745/562, 3-4=-2741/573, 4-5=-3160/642

BOT CHORD 1-7=-953/4417 6-7=-953/4417

WFBS 2-7=-500/2783, 2-6=-2687/632, 3-6=-530/2800, 4-6=-528/2699

NOTES-

1) 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. Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

2) 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.

WB

Matrix-MS

0.53

- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

NO

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=716, 5=872.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1037 lb down and 210 lb up at 2-0-12, 1037 lb down and 210 lb up at 4-0-12, 1037 lb down and 210 lb up at 6-0-12, 1037 lb down and 210 lb up at 8-0-12, 1037 lb down and 210 lb up at 10-0-12, and 1037 lb down and 210 lb up at 12-0-12, and 1043 lb down and 204 lb up at 14-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

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	Job	Truss	Truss Type	Qty	Ply	AARON SIMQUE - LOT 62 MIL SUITE
						T28119694
	3213343	T06	Common Girder	1	2	
Į						Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jun 27 14:25:38 2022 Page 2 ID:NiQ7mGOyLBB90?IYMNBIh5zwWCE-ABPoCc1Dw42fFWD9ww4H6H7SQAvJxTwWTYeASLz22xB

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-3=-54, 3-4=-54, 1-5=-20

Concentrated Loads (lb)

Vert: 6=-940(B) 10=-940(B) 11=-940(B) 12=-940(B) 13=-940(B) 14=-940(B) 15=-945(B)



06/30/2022



Job Truss Truss Type Qty Ply AARON SIMQUE - LOT 62 MIL SUITE T28119695 3213343 T07G Common Supported Gable Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Dec 6 2021 MiTek Industries, Inc. Mon Jun 27 14:25:39 2022 Page 1 ID:NiQ7mGOyLBB90?IYMNBlh5zwWCE-eOzAPy1rgNAWtfnLUebWfVgfGal6g2ngiCNj_nz22xA 14-8-0 1-6-0 Scale: 3/8"=1" 4x4 =6 5 8.00 12 8 3x4 🖊 9 3x4 ≫ 10 0-4-12 4x8 || 4x8 || 16 15 14 13 12 14-8-0 Plate Offsets (X,Y)--[2:0-3-8,Edge], [10:0-3-8,Edge] SPACING-CSI. DEFL. (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.25 ТС 0.15 Vert(LL) -0.00 n/r 120 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.07 Vert(CT) -0.01 11 n/r 120 **BCLL** 0.0 Rep Stress Incr YES

LOADING (psf)

WB 0.05

Matrix-S

Horz(CT) 0.00 10 n/a

Weight: 79 lb FT = 20%

LUMBER-

OTHERS

BCDL

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No 2 2x4 SP No 3 **BRACING-**

TOP CHORD **BOT CHORD**

Landence Parnet

Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 14-8-0.

10.0

Max Horz 2=-122(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 15, 16, 13, 12

Max Grav All reactions 250 lb or less at joint(s) 2, 10, 14, 15, 16, 13, 12

Review for Code Compliance Universal Engineering Science

n/a

PX2707 06/30/2022

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

Code FBC2020/TPI2014

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 7-4-0, Corner(3R) 7-4-0 to 10-4-0, Exterior(2N) 10-4-0 to 16-2-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
- 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) Gable requires continuous bottom chord bearing
- 7) Gable studs spaced at 2-0-0 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 15, 16, 13,
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

June 28,2022

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

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

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

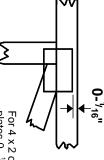


Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

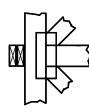
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



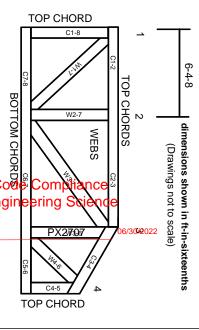
Min size shown is for crushing only number where bearings occur. reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

Industry Standards:

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

DSB-89: ANSI/TPI1:

Numbering System



JOINTS ARE GENERALLY NUMBER DILETTER EDUCLOCKWISE AROUND THE TRUSS STARTING AT THE LEFT.

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

PRODUCT CODE APPROVALS P



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

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

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

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

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

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

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- Provide copies of this truss design to the building all other interested parties. designer, erection supervisor, property owner and
- Cut members to bear tightly against each other.
- joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1. Place plates on each face of truss at each
- 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.

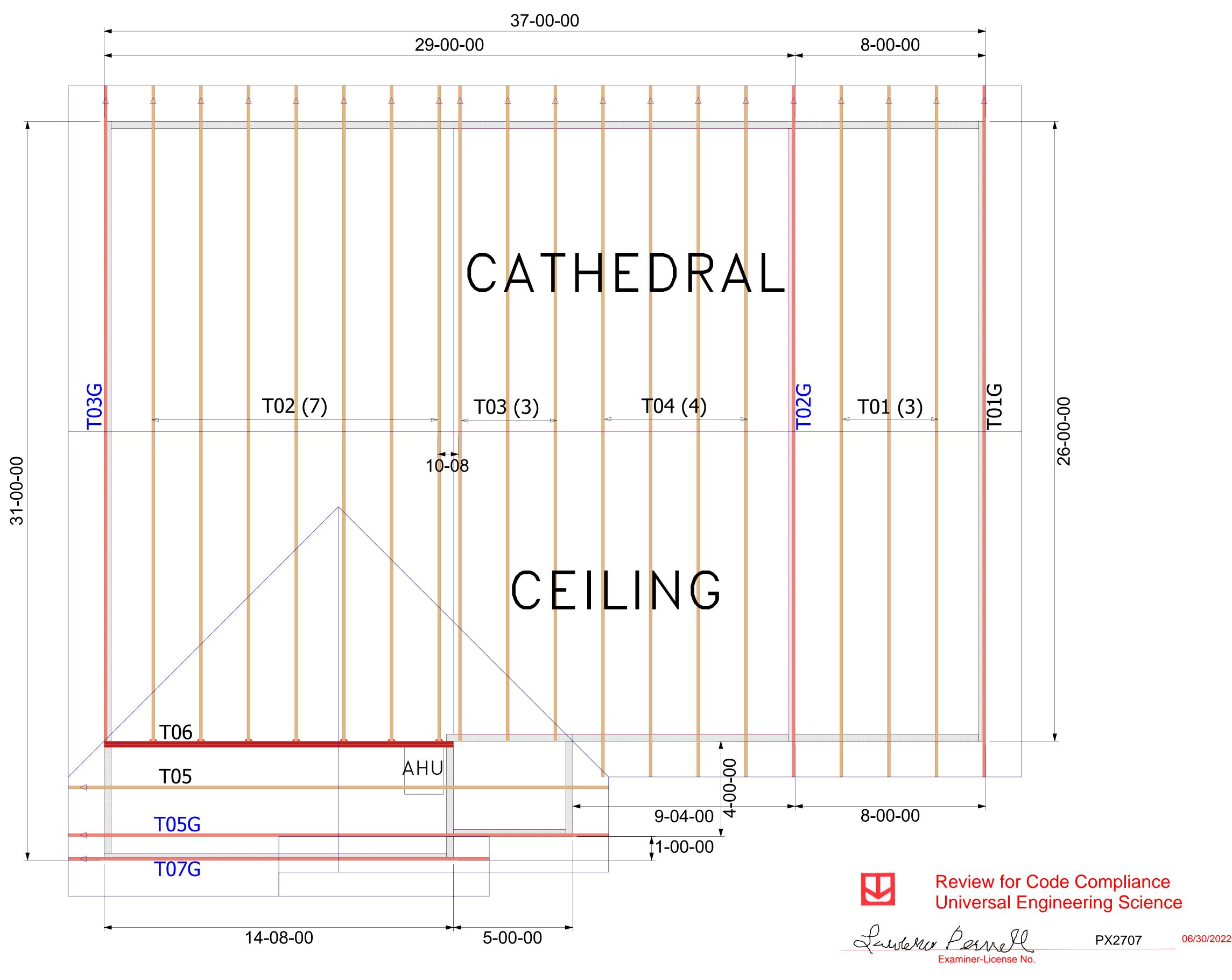
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Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.

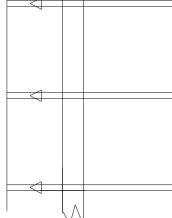
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- Camber is a non-structural consideration and is the camber for dead load deflection responsibility of truss fabricator. General practice is to
- 11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.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

8/12 PITCH — 18" 0/H



THE ARROW HEAD AT THE END OF THE TRUSS ON THE TRUSS PLACEMENT PLAN (LAYOUT) CORRESPONDS WITH THE LEFT SIDE OF THE INDIVIDUAL TRUSS DRAWING. USE THIS AS AN ORIENTATION GUIDE WHEN SETTING THE TRUSSES ON THE STRUCTURE.



General Notes:

Per ANSI/TPI 1-2002 all "Truss to Wall" connections re the responsibility of the Building Designer, not the Yruss Manufacturer.

- Use Manufacturer's specifications for all hanger onnections unless noted otherwise.

- Trusses are to be 24" o.c. U.N.O.

- All hangers are to be Simpson or equivalent U.N.O.-Use 10d x 1 1/2" Nails in hanger connections to single ply

- Trusses are not designed to support brick U.N.O. - Dimensions are Feet-Inches- Sixteenths

Notes:

type of items.

No back charges will be accepted by Builders FirstSource unless approved in writing first. 850-835-4541

ACQ lumber is corrisive to truss plates. Any ACQ lumber that comes in contact with truss plates (i.e. scabbed on tails) must have an approved barrier applied first.

Refer to BCSI-B1 Summary Sheet-Guide for handling, Installing and Bracing of Metal Plate Connected Wood Truss prior to and during truss installation.

It is the responsibility of the Contractor to ensure of the proper orientation of the truss placement plans as to the construction documents and field conditions of the structure orientation. If a reversed or flipped layout is

required, it will be supplied at no extra cost by Builders

FirstSource. It is the responsibility of the Contractor to make sure the placement of trusses are adjusted for plumbing drops, can lights, ect..., so the trusses do not interfere with these

All common framed roof or floor systems must be designed as to NOT impose any loads on the floor trusses below. The floor trusses have not been designed to carry any additional loads from above.

This truss placement plan was not created by an engineer, but rather by the Builders FirstSource staff and is solely to be used as an installation guide and does not require a seal. Complete truss engineering and analysis can be found on the truss design drawings which may be sealed by the truss design engineer.

Gable end trusses require continuous bottom chord bearing. Refer to local codes for wall framing

Although all attempts have been made to do so, trusses may not be designed symmetrically. Please refer to the individual truss drawings and truss placement plans for proper orientation and placement.



Lake City PHONE: 386-755-6894 FAX: 386-755-7973

Jacksonville PHONE: 904-772-6100 FAX: 904-772-1973

Tallahassee PHONE: 850-576-5177

AARON SIMQUE HOMES

Lot 62 PLL - MIL Suite

Custom

Drawn By: 6-16-22 Floor 1 Job#

Original Ref#: 3213343 Floor 2 Job#: Roof Job #: N/A 3213343

MITEK PLATE APPROVAL #'S 2197.2-2197.4, BOISE EWP PRODUCT #'S LVL FL1644-R2, BCI JOISTS FL1392-R2