

RE: 4558297 - GIEBEIG - LOT 19 CW

MiTek, Inc.

16023 Swingley Ridge Rd.

Chesterfield, MO 63017 Customer Info: GIEBEIG CONST. Project Name: Spec Hse Model: St. Johns Modified 434.1200

Lot/Block: 19 S Address: TBD SW Chesterfield Circle, TBD Subdivision: Crosswinds

City: Columbia Cty State: FL

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

Name: License #:

Address:

Site Information:

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 8.8

Wind Code: ASCE 7-22 Wind Speed: 130 mph Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 29 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	No.	Seal#	Truss Name	Date
1	T36788332	CJ1	3/26/25	15	T36788346	T09	3/26/25
2	T36788333	CJ3	3/26/25	16	T36788347	T10	3/26/25
3	T36788334	CJ5	3/26/25	17	T36788348	T11	3/26/25
4	T36788335	EJ5	3/26/25	18	T36788349	T12	3/26/25
5	T36788336	EJ7	3/26/25	19	T36788350	<u>T</u> 13	3/26/25
6	T36788337	HJ7	3/26/25	20	T36788351	<u>T14</u>	3/26/25
7	T36788338	HJ9	3/26/25	21	T36788352	<u>T</u> 15	3/26/25
8	T36788339	T03	3/26/25	22	T36788353	<u>T16</u>	3/26/25
9	T36788340	<u>T</u> 03G	3/26/25	23	T36788354	T17	3/26/25
10	T36788341	T04	3/26/25	24	T36788355	T18	3/26/25
11	T36788342	T05	3/26/25	25	T36788356	<u>T</u> 18G	3/26/25
12	T36788343	T06	3/26/25	26	T36788357	T19	3/26/25
13	T36788344	T07	3/26/25	27	T36788358	T19A	3/26/25
14	T36788345	T08	3/26/25	28	T36788359	T20	3/26/25

This item has been digitally signed and sealed by ORegan, Philip, PE on the date adjacent to the sea Printed copies of this document are not considered signed and sealed and the signature must be veri



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, 2027.

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

March 26,2025



RE: 4558297 - GIEBEIG - LOT 19 CW

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

Site Information:

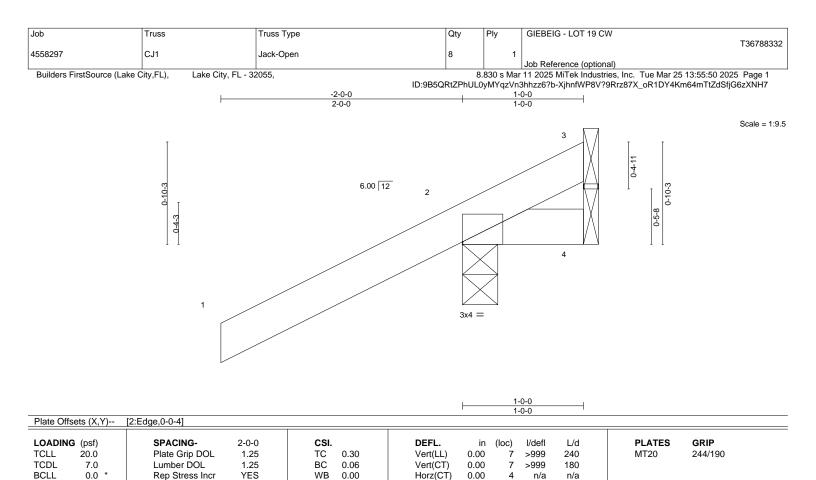
Customer Info: GIEBEIG CONST. Project Name: Spec Hse Model: St. Johns Modified

Subdivision: Crosswinds

Lot/Block: 19 S Address: TBD SW Chesterfield Circle, TBD

City: Columbia Cty State: FL

Truss Name Date No. Seal# 29 T36788360 T21 3/26/25



BCDL

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

10.0

BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 1-0-0 oc purlins.

Weight: 7 lb

FT = 20%

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

n/a

n/a

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=52(LC 12)

Max Uplift 3=-26(LC 1), 2=-121(LC 12), 4=-47(LC 1) Max Grav 3=19(LC 16), 2=254(LC 1), 4=34(LC 16)

Code FBC2023/TPI2014

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

NOTES-

 $1) \ Wind: ASCE \ 7-22; \ Vult=130mph \ (3-second \ gust) \ Vasd=101mph; \ TCDL=4.2psf; \ BCDL=3.0psf; \ h=18ft; \ Cat. \ II; \ Exp \ B; \ Encl., \ Gat. \ Gat.$ GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 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

Matrix-MP

- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=121.
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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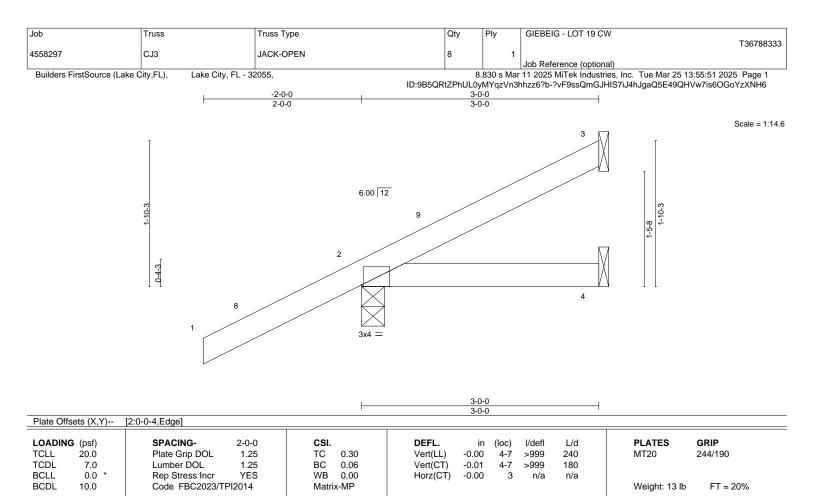
Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

March 26,2025



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

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 3-0-0 oc purlins.

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=90(LC 12)

Max Uplift 3=-35(LC 12), 2=-92(LC 12), 4=-16(LC 9) Max Grav 3=52(LC 1), 2=253(LC 1), 4=47(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 2-11-4 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
- 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2, 4.
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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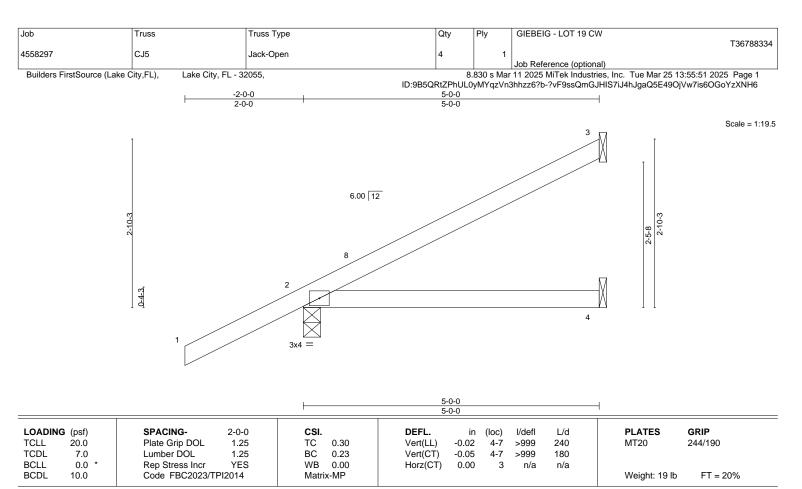
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TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 BRACING-

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=128(LC 12)

Max Uplift 3=-74(LC 12), 2=-98(LC 12)

Max Grav 3=108(LC 1), 2=313(LC 1), 4=87(LC 3)

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

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 4-11-4 zone; porch 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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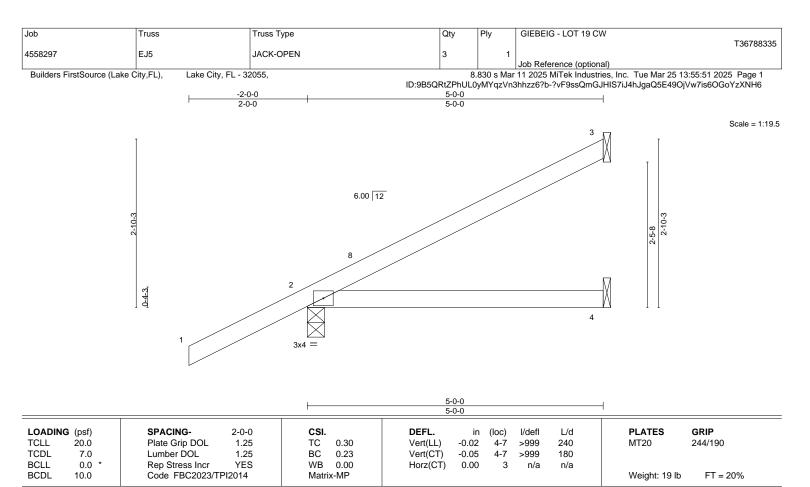
Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

March 26,2025



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

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=128(LC 12)

Max Uplift 3=-74(LC 12), 2=-98(LC 12)

Max Grav 3=108(LC 1), 2=313(LC 1), 4=87(LC 3)

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

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 4-11-4 zone; porch 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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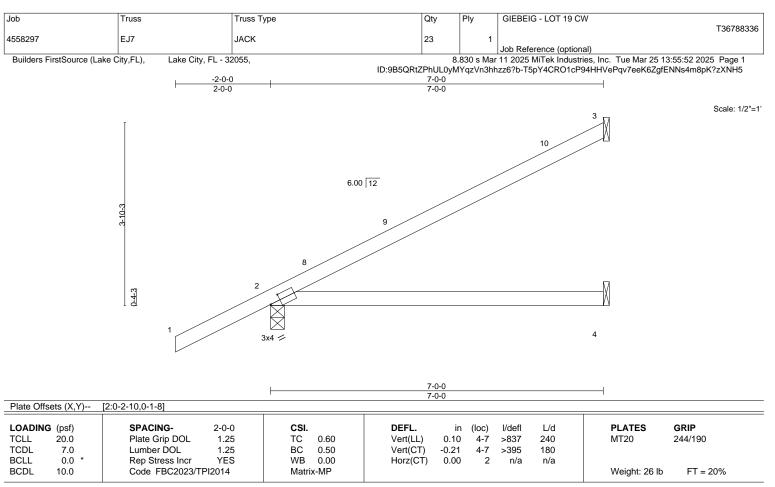
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TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=161(LC 12)

Max Uplift 3=-97(LC 12), 2=-110(LC 12)

Max Grav 3=160(LC 1), 2=380(LC 1), 4=125(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 6-11-4 zone; 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 2=110.
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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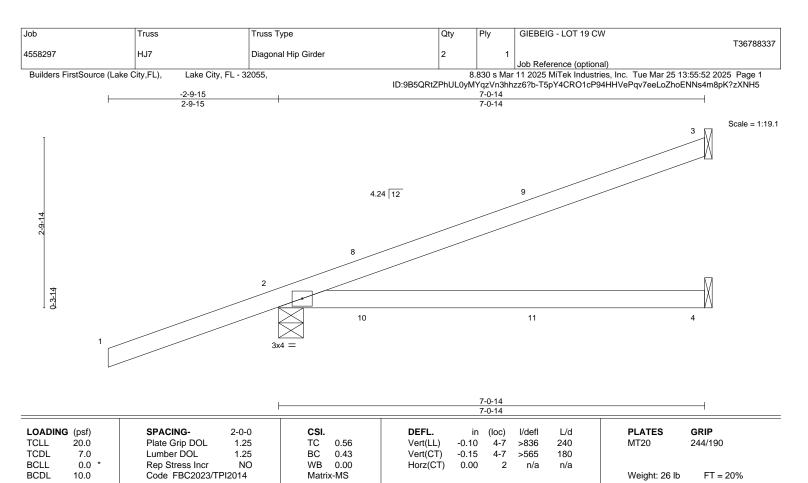
Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

March 26,2025



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

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

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

REACTIONS. (size) 3=Mechanical, 2=0-4-15, 4=Mechanical

Max Horz 2=147(LC 25)

Max Uplift 3=-90(LC 8), 2=-200(LC 4), 4=-41(LC 5) Max Grav 3=141(LC 1), 2=347(LC 1), 4=110(LC 3)

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

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb)
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 63 lb down and 103 lb up at 1-5-12, 63 lb down and 103 lb up at 1-5-12, and 21 lb down and 40 lb up at 4-3-11, and 21 lb down and 40 lb up at 4-3-11 on top chord, and 52 lb down and 75 lb up at 1-5-12, 52 lb down and 75 lb up at 1-5-12, and 45 lb down and 23 lb up at 4-3-11, and 45 lb down and 23 lb up at 4-3-11 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 8=49(F=24, B=24) 10=70(F=35, B=35) 11=4(F=2, B=2)

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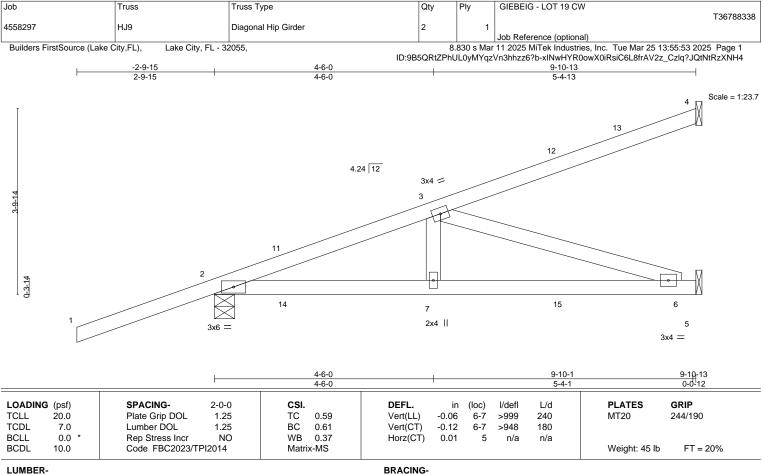
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TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x4 SP No.3 WFBS

BRACING-

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

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

REACTIONS. (size) 4=Mechanical, 2=0-4-15, 5=Mechanical

Max Horz 2=180(LC 4)

Truss

Max Uplift 4=-90(LC 4), 2=-231(LC 4), 5=-76(LC 8) Max Grav 4=150(LC 1), 2=466(LC 1), 5=268(LC 3)

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

TOP CHORD 2-3=-661/257 **BOT CHORD** 2-7=-298/608 6-7=-298/608

WFBS 3-7=-3/251, 3-6=-638/312

NOTES-(9)

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5 except (jt=lb) 2 = 231.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 63 lb down and 103 lb up at 1-5-12, 63 lb down and 103 lb up at 1-5-12, 21 lb down and 40 lb up at 4-3-11, 21 lb down and 40 lb up at 4-3-11, and 44 lb down and 83 lb up at 7-1-10, and 44 lb down and 83 lb up at 7-1-10 on top chord, and 26 lb down and 75 lb up at 1-5-12, 26 lb down and 75 lb up at 1-5-12, 19 lb down and 23 lb up at 4-3-11, 19 lb down and 23 lb up at 4-3-11, and 42 lb down at 7-1-10, and 42 lb down at 7-1-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

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

Vert: 1-4=-54, 5-8=-20

Vert: 7=4(F=2, B=2) 11=49(F=24, B=24) 12=-63(F=-31, B=-31) 14=70(F=35, B=35) 15=-49(F=-25, B=-25)

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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

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

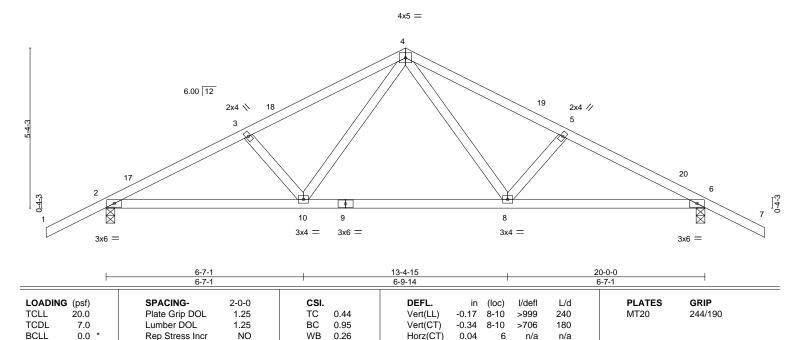


Job Truss Truss Type Qty Ply GIEBEIG - LOT 19 CW T36788339 T03 9 4558297 Common Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 25 13:55:53 2025 Page 1 ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-xINwHYR0owX0iRsiC6L8frAYQzvxzmc?JQtNtRzXNH4 10-0-0 15-3-0

5-3-0

Matrix-MS

Scale = 1:38.5



LUMBER-

BCDL

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

10.0

BRACING-

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 4-2-11 oc purlins.

Weight: 96 lb

FT = 20%

Rigid ceiling directly applied or 8-9-2 oc bracing.

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

Max Horz 2=100(LC 12)

Max Uplift 2=-308(LC 12), 6=-308(LC 13) Max Grav 2=1053(LC 1), 6=1053(LC 1)

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

Code FBC2023/TPI2014

TOP CHORD 2-3=-1772/482, 3-4=-1621/461, 4-5=-1621/466, 5-6=-1772/482

2-10=-442/1541, 8-10=-207/1017, 6-8=-359/1541 **BOT CHORD**

WFBS 4-8=-213/676, 4-10=-213/676

NOTES-(8)

- 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=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 10-0-0, Zone2 10-0-0 to 14-2-15, Zone1 14-2-15 to 22-0-0 zone; 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

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

Vert: 1-4=-54, 4-7=-54, 10-11=-20, 8-10=-80(F=-60), 8-14=-20

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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

March 26,2025



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



Job Truss Truss Type Qty Ply GIEBEIG - LOT 19 CW T36788340 T03G 4558297 Common Supported Gable Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 25 13:55:54 2025 Page 1 ID: 9B5QRtZPhUL0yMYqzVn3hhzz6?b-PUxIUuSfZEftJbRumpsNC3jm8NSOiG68Y4dwPtzXNH320-0-0

Scale = 1:39.7

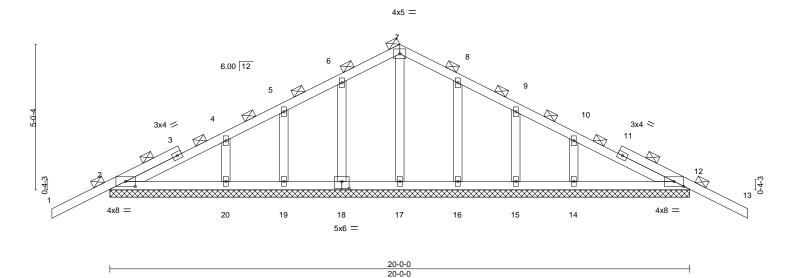


Plate Off	Plate Offsets (X,Y) [2:0-4-0,0-2-1], [12:0-4-0,0-2-1], [18:0-3-0,0-3-0]											
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.24	Vert(LL)	-0.02	13	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.10	Vert(CT)	-0.02	13	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code FBC2023/T	PI2014	Matr	ix-S						Weight: 105 lb	FT = 20%

LUMBER-TOP CHORD

OTHERS

2x4 SP No 2 BOT CHORD

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

TOP CHORD 2-0-0 oc purlins (6-0-0 max.).

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

10-0-0

REACTIONS. All bearings 20-0-0.

(lb) -Max Horz 2=-95(LC 17)

Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 18, 19, 20, 16, 15, 14

10-0-0

Max Grav All reactions 250 lb or less at joint(s) 17, 18, 19, 20, 16, 15, 14 except 2=265(LC 25), 12=265(LC

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

NOTES-(13)

- 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=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; 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 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, 12, 18, 19, 20, 16, 15, 14,
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 12.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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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:

March 26,2025



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



Job Truss Truss Type Qty Ply GIEBEIG - LOT 19 CW T36788341 4558297 T04 Half Hip Girder Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 25 13:55:55 2025 Page 1 ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-tgVgiETHKXnkxk04JXOckGGrlnejRZwlnkMUxJzXNH2 11-6-6 20-7-2

4-6-6

16-0-12

4-6-6

Structural wood sheathing directly applied or 2-9-14 oc purlins,

8-10

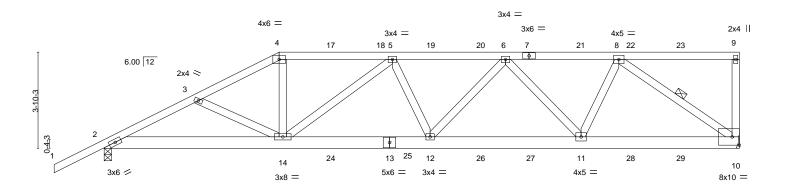
Rigid ceiling directly applied or 6-10-8 oc bracing.

except end verticals

1 Row at midpt

Scale = 1:46.1

4-9-14



	7-0-0	13-0-8	19-1-0	25-5-0
	7-0-0	6-0-8	6-0-8	6-4-0
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.25 Lumber DOL 1.25 Rep Stress Incr NO Code FBC2023/TPI2014	CSI. TC 0.60 BC 0.74 WB 0.65 Matrix-MS	DEFL. in (loc) l/defl L/d Vert(LL) -0.15 12-14 >999 240 Vert(CT) -0.29 12-14 >999 180 Horz(CT) 0.08 10 n/a n/a	PLATES GRIP MT20 244/190 Weight: 156 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WFBS

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x6 SP No.2 2x4 SP No.3 WFBS

REACTIONS. (size) 10=Mechanical, 2=0-3-8

Max Horz 2=169(LC 8)

Max Uplift 10=-657(LC 5), 2=-581(LC 8) Max Grav 10=2087(LC 1), 2=1817(LC 1)

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

2-3=-3475/1092, 3-4=-3300/1027, 4-5=-2971/957, 5-6=-3617/1107, 6-8=-2686/810, TOP CHORD

3-2-12

9-10=-291/171

2-14=-1064/3084, 12-14=-1167/3618, 11-12=-1079/3355, 10-11=-718/2211 BOT CHORD WFBS 4-14=-242/1096. 5-14=-877/341. 6-12=-84/434. 6-11=-1020/426. 8-11=-245/1191.

8-10=-2710/880

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=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 125 lb down and 100 lb up at 7-0-0, 106 lb down and 100 lb up at 9-0-12, 106 lb down and 100 lb up at 11-0-12, 106 lb down and 100 lb up at 13-0-12, 106 lb down and 100 lb up at 15-0-12, 106 lb down and 99 lb up at 17-0-12, 106 lb down and 100 lb up at 19-0-12, 106 lb down and 100 lb up at 21-0-12, and 106 lb down and 100 lb up at 23-0-12, and 127 lb down and 99 lb up at 25-3-4 on top chord, and 296 lb down and 103 lb up at 7-0-0, 85 lb down at 9-0-12, 85 lb down at 11-0-12, 85 lb down at 13-0-12, 85 lb down at 15-0-12, 85 lb down at 17-0-12, 85 lb down at 19-0-12, 85 lb down at 21-0-12, and 85 lb down at 23-0-12, and 100 lb down at 25-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B)
- 11) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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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:

March 26,2025

LOAD CASE(S) Standard

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



Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 19 CW
					T36788341
4558297	T04	Half Hip Girder	1	1	
					Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 25 13:55:55 2025 Page 2 ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-tgVgiETHKXnkxk04JXOckGGrlnejRZwlnkMUxJzXNH2

LOAD CASE(S) Standard

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

Vert: 1-4=-54, 4-9=-54, 2-10=-20

Concentrated Loads (lb)

Vert: 4=-106(F) 7=-106(F) 9=-127(F) 10=-69(F) 14=-287(F) 12=-61(F) 11=-61(F) 17=-106(F) 18=-106(F) 19=-106(F) 20=-106(F) 21=-106(F) 22=-106(F) 23=-106(F) 24=-61(F) 25=-61(F) 25



Job Truss Truss Type Qty Ply GIEBEIG - LOT 19 CW T36788342 4558297 T05 Half Hip Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 25 13:55:56 2025 Page 1 ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-Lt32vaUv5rvbZubHtEvrHUo37A_yA5wR?O61TmzXNH1

19-9-0

1/_/_8

4-2-12

Scale = 1:46.1

25-5-0

5-8-0

25-5-0

Structural wood sheathing directly applied or 4-4-12 oc purlins,

Rigid ceiling directly applied or 7-10-14 oc bracing

except end verticals.

1 Row at midpt

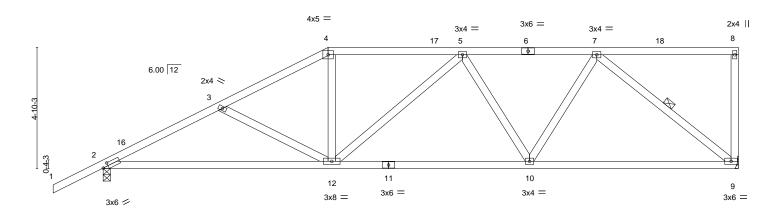


Plate Offsets (X,Y)	9-0-0 [2:0-2-9,0-1-8]		8-0-12		8-4-4
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) 1/o	defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.41	Vert(LL) -0.14 12-15 >9	999 240	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.74	Vert(CT) -0.29 12-15 >9	999 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.35	Horz(CT) 0.05 9	n/a n/a	
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS	, ,		Weight: 136 lb FT = 20%

17-0-12

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-TOP CHORD

2x4 SP No 2 2x4 SP No 2

BOT CHORD 2x4 SP No.3 WFBS

REACTIONS. (size) 9=Mechanical, 2=0-3-8

Max Horz 2=207(LC 12)

Max Uplift 9=-291(LC 9), 2=-319(LC 12) Max Grav 9=931(LC 1), 2=1047(LC 1)

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

9-0-0

TOP CHORD 2-3=-1668/492, 3-4=-1406/399, 4-5=-1217/392, 5-7=-1143/330

BOT CHORD 2-12=-556/1467, 10-12=-397/1286, 9-10=-293/901

WFBS 3-12=-294/186, 4-12=-45/408, 5-10=-281/187, 7-10=-127/490, 7-9=-1140/376

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=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 25-3-4 zone; 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) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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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:

March 26,2025



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



Job Truss Truss Type Qty Ply GIEBEIG - LOT 19 CW T36788343 4558297 T06 Half Hip Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 25 13:55:56 2025 Page 1 ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-Lt32vaUv5rvbZubHtEvrHUo?RA0_A2ER?O61TmzXNH1

11-0-0 5-2-12 18-2-8

7-2-8

except end verticals.

1 Row at midpt

Scale = 1:45.9

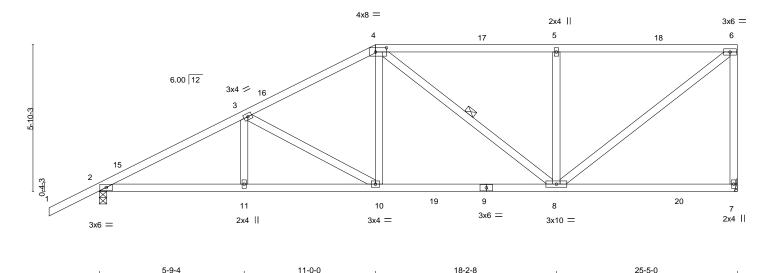


Plate Of	Plate Offsets (X,Y) [4:0-5-4,0-2-0]											
LOADIN	IG (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.64	Vert(LL)	-0.10	8-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	ВС	0.61	Vert(CT)	-0.18	8-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.04	7	n/a	n/a		
BCDL	10.0	Code FBC2023/T	PI2014	Matr	x-MS						Weight: 143 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

BOT CHORD 2x4 SP No.3 WFBS

REACTIONS. (size) 7=Mechanical, 2=0-3-8

Max Horz 2=246(LC 12)

Max Uplift 7=-283(LC 9), 2=-318(LC 12) Max Grav 7=1042(LC 2), 2=1108(LC 2)

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

2-3=-1827/460, 3-4=-1364/369, 4-5=-1010/276, 5-6=-1010/276, 6-7=-908/300 TOP CHORD

BOT CHORD 2-11=-557/1594, 10-11=-557/1594, 8-10=-371/1182

WFBS 3-10=-494/214, 4-10=-66/480, 4-8=-251/129, 5-8=-451/254, 6-8=-344/1259

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=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 11-0-0, Zone2 11-0-0 to 15-2-15, Zone1 15-2-15 to 25-3-4 zone; 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) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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7-2-8

Structural wood sheathing directly applied or 4-1-8 oc purlins,

Rigid ceiling directly applied or 7-10-12 oc bracing.

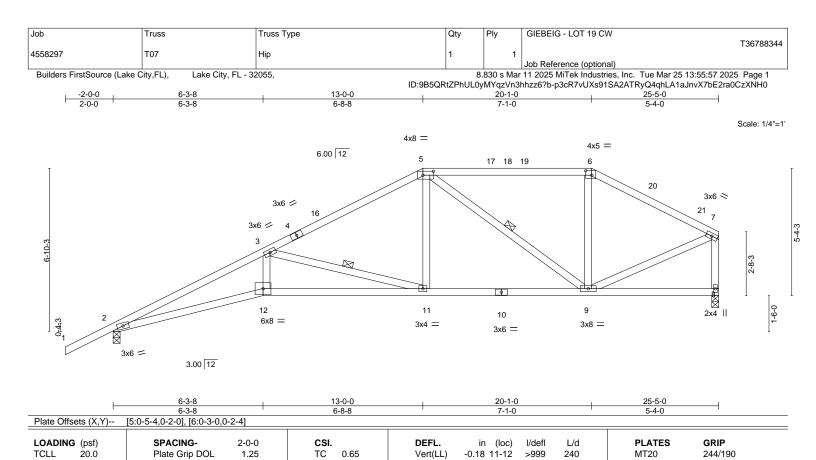
Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

March 26,2025



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Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

WEBS

-0.36 11-12

8

0.15

>842

except end verticals.

1 Row at midpt

n/a

180

n/a

Rigid ceiling directly applied or 5-11-1 oc bracing.

Structural wood sheathing directly applied or 3-1-10 oc purlins,

Weight: 133 lb

FT = 20%

LUMBER-

TCDL

BCLL

BCDL

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

7.0

0.0

10.0

WFBS 2x4 SP No 3

REACTIONS. (size) 2=0-3-8, 8=0-3-8 Max Horz 2=227(LC 12)

Max Uplift 2=-311(LC 12), 8=-213(LC 13) Max Grav 2=1047(LC 1), 8=931(LC 1)

Lumber DOL

Rep Stress Incr

Code FBC2023/TPI2014

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-3017/953, 3-5=-1412/406, 5-6=-804/239, 6-7=-955/243, 7-8=-884/224

BOT CHORD 2-12=-1004/2727, 11-12=-954/2577, 9-11=-359/1207

WFBS $3-12=-205/756,\ 3-11=-1432/619,\ 5-11=-115/562,\ 5-9=-541/218,\ 7-9=-193/848$

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=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 0-9-15, Zone1 0-9-15 to 13-0-0, Zone2 13-0-0 to 17-2-15, Zone1 17-2-15 to 20-1-0, Zone2 20-1-0 to 24-3-15, Zone1 24-3-15 to 25-3-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

BC

WB

Matrix-MS

0.76

0.42

- 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) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

1.25

YES

- 6) * 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.
- 7) Bearing at joint(s) 2 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 100 lb uplift at joint(s) except (jt=lb)
- 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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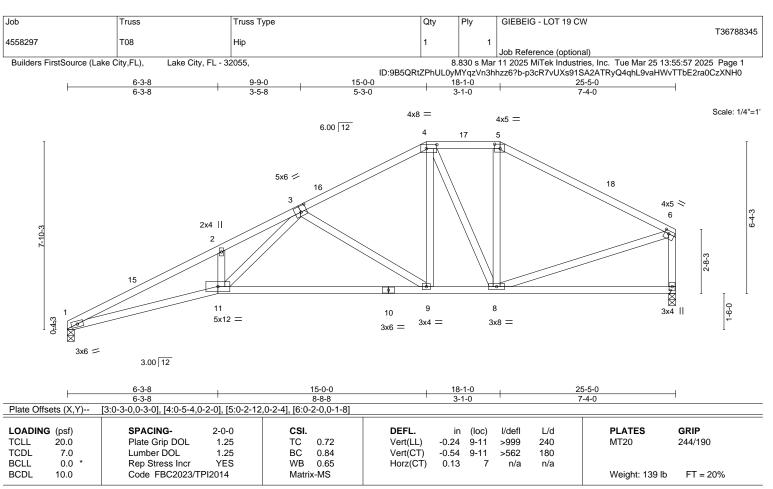
Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

March 26,2025



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





LUMBER-TOP CHORD

2x4 SP No 2 2x4 SP No 2

BOT CHORD WFBS 2x4 SP No.3 **BRACING-**

TOP CHORD Structural wood sheathing directly applied or 2-8-14 oc purlins,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 5-9-2 oc bracing

REACTIONS. (size) 1=0-3-8, 7=0-3-8

Max Horz 1=211(LC 12)

Max Uplift 1=-255(LC 12), 7=-212(LC 12) Max Grav 1=935(LC 1), 7=935(LC 1)

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

TOP CHORD 1-2=-3043/945, 2-3=-3018/1050, 3-4=-1142/338, 4-5=-832/281, 5-6=-1015/283,

6-7=-863/232

BOT CHORD 1-11=-1013/2753 9-11=-600/1651 8-9=-266/971

WEBS 3-11=-551/1443, 3-9=-817/398, 4-9=-168/579, 4-8=-397/147, 6-8=-196/793

- 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=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 15-0-0, Zone3 15-0-0 to 18-1-0, Zone2 18-1-0 to 22-3-15, Zone1 22-3-15 to 25-3-4 zone; 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) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 1 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 100 lb uplift at joint(s) except (jt=lb) 1=255, 7=212.
- 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

This item has been digitally signed and sealed by ORegan, Philip, PE on the date indicated here. 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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Job		Truss		Truss Type		Qty	Ply	GIEBEIG - LOT 19 CW		
									-	T36788346
4558297		T09		Half Hip Girder		1	1			
								Job Reference (optional)		
Builders FirstSc	ource (Lake C	ity,FL),	Lake City, FL - 3	2055,		8.8	830 s Mar	11 2025 MiTek Industries, In	nc. Tue Mar 25 13:55:58 2025	Page 1
			·		ID:9B5	QRtZPhUL	.0yMYqzV	n3hhzz6?b-IFApKFV9dS9J	oClf?fxJMvuHN_mQetvkTib8Ye	zXNH?
-2-0-0	3-6-0) ,	7-0-0	12-4-0	18-6-7		1	24-9-0	30-1-0	
2-0-0	3-6-0)	3-6-0	5-4-0	6-2-7		1	6-2-9	5-4-0	

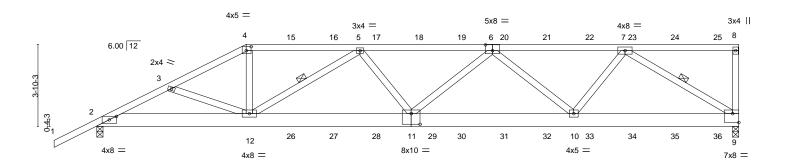
Scale = 1:54.0

30-1-0

Structural wood sheathing directly applied, except end verticals.

5-12 7-9

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



	1.0.2	22 . 0	00.0
7-0-0	7-8-12	7-7-7	7-8-13
[2:0-4-0,0-1-15], [4:0-2-12,0-	2-4], [6:0-4-0,0-3-4], [9:Edge,0-5-0], [11:0	-5-0,0-6-0]	
SPACING- 2	-0-0 CSI.	DEFL. in (loc) I/defl	L/d PLATES GRIP
Plate Grip DOL	1.25 TC 0.93	Vert(LL) -0.21 11 >999 2	240 MT20 244/190
Lumber DOL	1.25 BC 0.29	Vert(CT) -0.39 11 >910	180
Rep Stress Incr	NO WB 0.89	Horz(CT) 0.07 9 n/a	n/a
Code FBC2023/TPI20	014 Matrix-MS		Weight: 200 lb FT = 20%
·)) [2:0-4-0,0-1-15], [4:0-2-12,0-2] SPACING- Plate Grip DOL Lumber DOL * Rep Stress Incr	C2:0-4-0,0-1-15], [4:0-2-12,0-2-4], [6:0-4-0,0-3-4], [9:Edge,0-5-0], [11:0 SPACING-	CSI. DEFL. In (loc) I/defl

BRACING-

TOP CHORD

BOT CHORD

WERS

22-4-3

1 Row at midpt

14-8-12

LUMBER-TOP CHORD

2x4 SP No.1 *Except* 1-4: 2x4 SP No 2

BOT CHORD 2x8 SP 2400F 2.0E

WEBS 2x4 SP No.3

REACTIONS.

(size) 9=0-3-8, 2=0-3-8

Max Horz 2=168(LC 8)

Max Uplift 9=-828(LC 5), 2=-700(LC 8) Max Grav 9=2497(LC 1), 2=2194(LC 1)

7-0-0

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

TOP CHORD 2-3=-4256/1332, 3-4=-4121/1267, 4-5=-3720/1179, 5-6=-5107/1552, 6-7=-3884/1160,

8-9=-377/223

BOT CHORD $2\hbox{-}12\hbox{-}-1276/3763,\ 11\hbox{-}12\hbox{-}-1609/4983,\ 10\hbox{-}11\hbox{-}-1579/4872,\ 9\hbox{-}10\hbox{-}-987/2984$ **WEBS** 4-12=-332/1421, 5-12=-1554/586, 5-11=0/397, 6-11=-12/450, 6-10=-1325/571,

7-10=-311/1560, 7-9=-3513/1159

(10)

- 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=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=828, 2=700,
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 125 lb down and 100 lb up at 7-0-0, 106 lb down and 100 lb up at 9-0-12, 106 lb down and 100 lb up at 11-0-12, 106 lb down and 100 lb up at 13-0-12, 106 lb down and 100 lb up at 15-0-12, 106 lb down and 100 lb up at 17-0-12, 106 lb down and 96 lb up at 19-0-12, 106 lb down and 100 lb up at 21-0-12, 106 lb down and 100 lb up at 23-0-12, 106 lb down and 100 lb up at 25-0-12, 106 lb down and 100 lb up at 27-0-12, and 109 lb down and 100 lb up at 29-0-12, and 135 lb down and 98 lb up at 29-11-4 on top chord, and 296 lb down and 103 lb up at 7-0-0, 85 lb down at 9-0-12, 85 lb down at 11-0-12, 85 lb down at 13-0-12, 85 lb down at 15-0-12, 85 lb down at 17-0-12, 85 lb down at 19-0-12, 85 lb down at 21-0-12, 85 lb down at 23-0-12, 85 lb down at 25-0-12, and 85 lb down at 27-0-12, and 87 lb down at 29-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 10) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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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:

March 26,2025

LOAD CASE(S) verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 19 CW
					T36788346
4558297	T09	Half Hip Girder	1	1	
					Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 25 13:55:58 2025 Page 2 ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-IFApKFV9dS9JoClf?fxJMvuHN_mQetvkTib8YezXNH?

LOAD CASE(S) Standard

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

Vert: 1-4=-54, 4-8=-54, 2-9=-20

Concentrated Loads (lb)

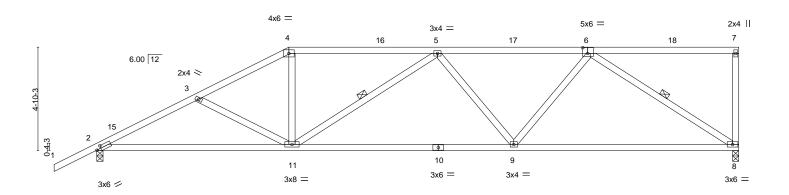
Vert: 4=-106(B) 8=-135(B) 12=-287(B) 15=-106(B) 16=-106(B) 17=-106(B) 18=-106(B) 19=-106(B) 20=-106(B) 21=-106(B) 22=-106(B) 23=-106(B) 24=-106(B) 25=-109(B) 26=-61(B) 27=-61(B) 28=-61(B) 30=-61(B) 31=-61(B) 32=-61(B) 33=-61(B) 35=-61(B) 35=-61(B) 36=-62(B)



Job Truss Truss Type Qty Ply GIEBEIG - LOT 19 CW T36788347 4558297 T10 MONO HIP Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 25 13:55:59 2025 Page 1 ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-mSkBYbWnOmH9QMKrYNSYv6QXcOy?NO3uhMKh45zXNH_ -2-0-0 2-0-0 15-11-9 30-1-0

6-11-9

Scale = 1:54.0



		9-0-0 9-0-0		+		19-6-7 10-6-7		+			30-1-0 10-6-8	
Plate Offs	sets (X,Y)	[2:0-2-9,0-1-8], [6:0-2-12,	0-3-4]			T						
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.58	Vert(LL)	-0.26	8-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.91	Vert(CT)	-0.54	8-9	>670	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.08	8	n/a	n/a		
BCDL	10.0	Code FBC2023/TI	PI2014	Matrix	k-MS						Weight: 155 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SP No 2

2x4 SP No.2 *Except* BOT CHORD

8-10: 2x4 SP No.1

WFBS 2x4 SP No.3

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

Max Horz 2=207(LC 12)

Max Uplift 8=-349(LC 9), 2=-370(LC 12)

Max Grav 8=1104(LC 1), 2=1219(LC 1)

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

TOP CHORD 2-3=-2046/600, 3-4=-1798/511, 4-5=-1575/494, 5-6=-1666/484

BOT CHORD 2-11=-652/1801, 9-11=-585/1840, 8-9=-439/1326

WEBS $3-11=-272/180,\ 4-11=-75/526,\ 5-11=-416/211,\ 5-9=-282/226,\ 6-9=-136/606,$

6-8=-1546/519

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=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 29-11-4 zone; 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) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Structural wood sheathing directly applied or 3-10-5 oc purlins,

5-11, 6-8

Rigid ceiling directly applied or 7-3-8 oc bracing.

except end verticals.

1 Row at midpt

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

March 26,2025



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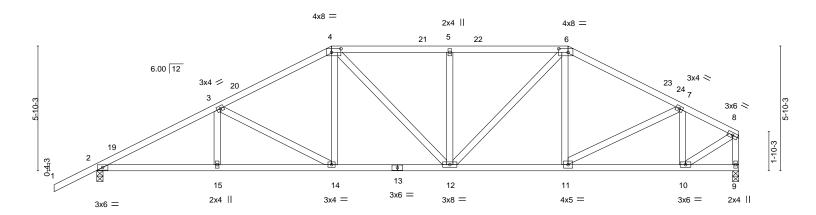
Job Truss Truss Type Qty Ply GIEBEIG - LOT 19 CW T36788348 4558297 T11 HIP Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 25 13:55:59 2025 Page 1 ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-mSkBYbWnOmH9QMKrYNSYv6QbPO3aNRbuhMKh45zXNH_

5-6-8

11-0-0

11-0-0

Scale = 1:54.0



	5-7-11	5-4-5	5-0	-0	5-6-6		5-4-5	2-1-11
Plate Offsets (X,Y)	[4:0-5-4,0-2-0], [6:0-5-4,0-2	2-0]						
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.34	Vert(LL)	-0.08 14 >999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.49	Vert(CT)	-0.16 12-14 >999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.42	Horz(CT)	0.06 9 n/a	n/a		
BCDL 10.0	Code FBC2023/TPI	12014	Matrix-MS				Weight: 173 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

REACTIONS.

-2-0-0 2-0-0

2x4 SP No 2 2x4 SP No.2

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

8-9: 2x4 SP No.2

(size) 2=0-3-8, 9=0-3-8

Max Horz 2=160(LC 12)

Max Uplift 2=-354(LC 12), 9=-278(LC 13) Max Grav 2=1219(LC 1), 9=1104(LC 1)

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

TOP CHORD 2-3=-2069/543, 3-4=-1626/449, 4-5=-1503/416, 5-6=-1503/416, 6-7=-1383/363,

7-8=-1052/274 8-9=-1086/279

BOT CHORD $2 - 15 = -547/1800,\ 14 - 15 = -547/1800,\ 12 - 14 = -355/1399,\ 11 - 12 = -217/1175,\ 10 - 11 = -231/931$

WEBS 3-14=-464/218, 4-14=-69/381, 4-12=-124/267, 5-12=-339/193, 6-12=-176/533,

7-11=-99/341, 7-10=-513/180, 8-10=-275/1097

- 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=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 11-0-0, Zone2 11-0-0 to 15-2-15. Zone1 15-2-15 to 22-1-0, Zone2 22-1-0 to 26-3-15, Zone1 26-3-15 to 29-11-4 zone; 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) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=354, 9=278.
- 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Structural wood sheathing directly applied or 3-10-15 oc purlins,

Rigid ceiling directly applied or 7-11-15 oc bracing

except end verticals.

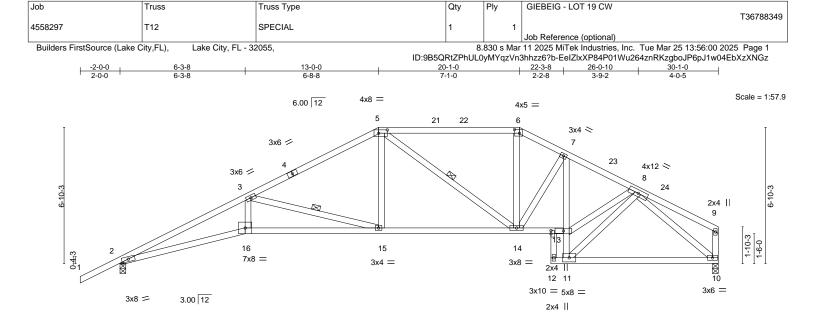
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	0-3-0	13-0-0	20-1-0	1 21-0-02x-3-p	30-1-0	
	6-3-8	6-8-8	7-1-0	1-7-0 0-7-8	7-9-8	<u> </u>
Plate Offsets (X,Y)	[2:0-4-0,0-1-9], [5:0-5-4,0-2-0], [6	6:0-3-0,0-2-4], [17:0-2-0,0-0-0]				
LOADING (psf)	SPACING- 2-0-0	0 CSI.	DEFL. in (loc)	I/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.29	5 TC 0.76	Vert(LL) -0.25 15-16	>999 240	MT20	244/190
TCDL 7.0	Lumber DOL 1.29	5 BC 0.90	Vert(CT) -0.50 15-16	>715 180		
BCLL 0.0 *	Rep Stress Incr YES	S WB 0.71	Horz(CT) 0.29 10	n/a n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS			Weight: 175 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-TOP CHORD 2x4 SP No 2

BOT CHORD 2x4 SP No.2 *Except*

7-11: 2x4 SP No.3

WEBS 2x4 SP No.3 *Except*

9-10: 2x4 SP No.2

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

Max Horz 2=176(LC 12) Max Uplift 2=-319(LC 12), 10=-236(LC 13)

Max Grav 2=1223(LC 1), 10=1115(LC 1)

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

 $2\text{-}3\text{--}3735/938,\ 3\text{-}5\text{--}1918/444,\ 5\text{-}6\text{--}1497/399,\ 6\text{-}7\text{--}1672/422,\ 7\text{-}8\text{--}1806/428}$ TOP CHORD

BOT CHORD $2 - 16 = -938/3384, \ 15 - 16 = -891/3203, \ 14 - 15 = -310/1661, \ 13 - 14 = -285/1588, \ 11 - 13 = -201/995, \ 11 - 12 = -201/995, \ 11 - 13 = -201/99$

10-11=-228/1066

WEBS $3-16=-189/906,\ 3-15=-1611/604,\ 5-15=-110/602,\ 5-14=-313/128,\ 6-14=-86/484,$

8-13=-332/1630, 8-11=-1265/324, 8-10=-1365/298

- 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=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 0-9-15, Zone1 0-9-15 to 13-0-0, Zone2 13-0-0 to 17-2-15, Zone1 17-2-15 to 20-1-0, Zone2 20-1-0 to 24-3-15, Zone1 24-3-15 to 29-11-4 zone; 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) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 2 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 100 lb uplift at joint(s) except (jt=lb) 2=319, 10=236,
- 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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

3-15, 5-14

Rigid ceiling directly applied or 6-1-9 oc bracing. Except:

except end verticals.

1 Row at midpt

10-0-0 oc bracing: 11-13

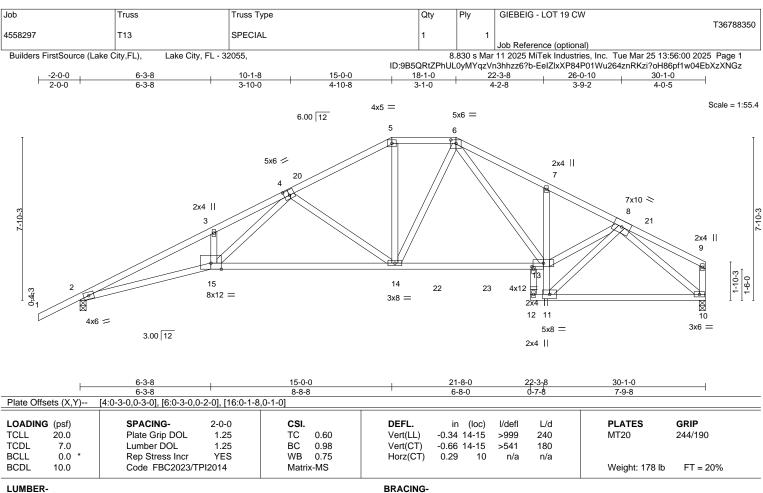
Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

March 26,2025



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





TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x4 SP No.2

2x4 SP No.2 *Except* BOT CHORD

13-15: 2x4 SP No.1, 7-11: 2x4 SP No.3

2x4 SP No.3 *Except* **WEBS**

9-10: 2x4 SP No.2

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

Max Horz 2=193(LC 12)

Max Uplift 2=-333(LC 12), 10=-253(LC 13)

Max Grav 2=1294(LC 2), 10=1221(LC 2)

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

TOP CHORD 2-3=-4014/968, 3-4=-3971/1074, 4-5=-1785/398, 5-6=-1560/391, 6-7=-2087/508,

7-8=-2033/425

BOT CHORD 2-15=-977/3658, 14-15=-566/2242, 13-14=-221/1445, 11-13=-189/1135, 10-11=-225/1146

WEBS 4-15=-542/1794, 4-14=-846/373, 5-14=-93/610, 6-14=-90/347, 6-13=-248/650,

8-13=-341/1862, 8-11=-1371/309, 8-10=-1445/296

NOTES-(9)

- 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=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 0-9-15, Zone1 0-9-15 to 15-0-0, Zone3 15-0-0 to 18-1-0, Zone2 18-1-0 to 22-6-1, Zone1 22-6-1 to 29-11-4 zone; 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) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Bearing at joint(s) 2 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 100 lb uplift at joint(s) except (jt=lb) 2=333, 10=253.
- 9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Structural wood sheathing directly applied or 2-4-5 oc purlins,

Rigid ceiling directly applied or 2-2-0 oc bracing. Except:

except end verticals.

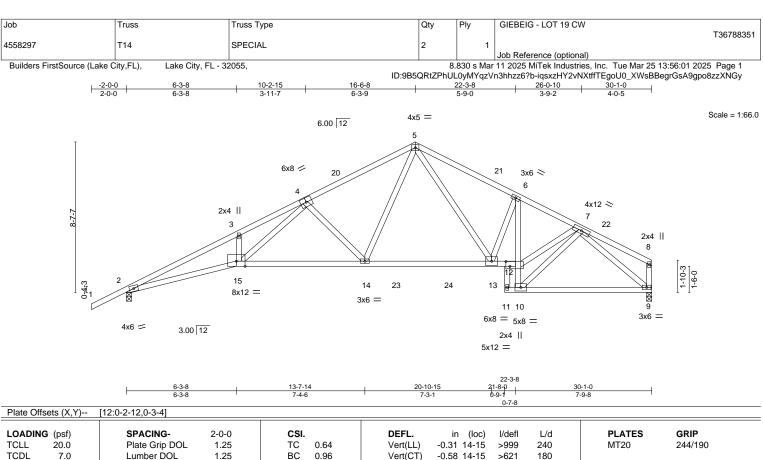
2-2-0 oc bracing: 11-13

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

March 26,2025

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7.0 Lumber DOL 1.25 BC 0.96 WB **BCLL** 0.0 Rep Stress Incr YES 0.75 BCDL 10.0 Code FBC2023/TPI2014 Matrix-MS

Vert(CT) -0.58 14-15 >621 180 Horz(CT) 0.29 n/a n/a

Weight: 176 lb FT = 20%

LUMBER-TOP CHORD

WEBS

2x4 SP No 2 2x4 SP No.2

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-3-6 oc purlins,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing. Except:

10-0-0 oc bracing: 10-12

REACTIONS.

(size) 2=0-3-8, 9=0-3-8 Max Horz 2=206(LC 12)

Max Uplift 2=-342(LC 12), 9=-264(LC 13) Max Grav 2=1300(LC 2), 9=1225(LC 2)

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

TOP CHORD 2-3=-4021/1016, 3-4=-3975/1115, 4-5=-1984/494, 5-6=-1974/473, 6-7=-1979/432

BOT CHORD 2-15=-1033/3659, 14-15=-602/2246, 13-14=-244/1342, 12-13=-305/1784,

10-12=-198/1056, 9-10=-235/1152

WEBS 4-15=-558/1773, 4-14=-776/380, 5-14=-250/959, 5-13=-222/699, 6-13=-284/222,

7-12=-343/1717, 7-10=-1247/319, 7-9=-1452/307

- 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=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 0-9-15, Zone1 0-9-15 to 16-6-8, Zone2 16-6-8 to 20-9-7, Zone1 20-9-7 to 29-11-4 zone; 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) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=342, 9=264.
- 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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6-6-15

16-6-8

6-3-9

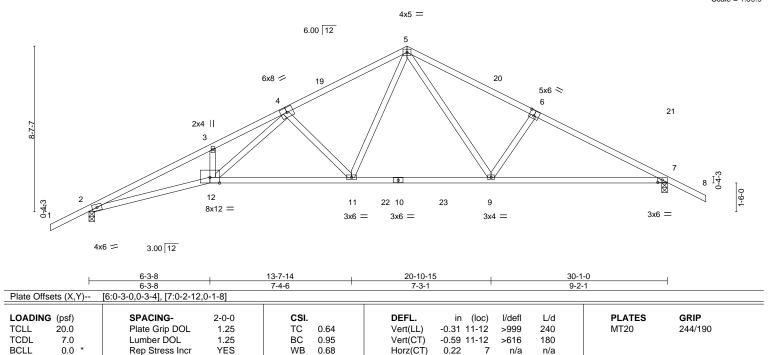
10-2-15

3-11-7

Scale = 1:59.9

32-1-0

2-0-0



LUMBER-

BCDL

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

10.0

BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 2-3-8 oc purlins.

Weight: 147 lb

FT = 20%

Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 7=0-3-8

Max Horz 2=188(LC 12)

Max Uplift 2=-344(LC 12), 7=-320(LC 13) Max Grav 2=1296(LC 2), 7=1302(LC 2)

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

Code FBC2023/TPI2014

TOP CHORD 2-3=-4006/1007. 3-4=-3960/1107. 4-5=-1968/496. 5-6=-1984/457. 6-7=-2137/463 BOT CHORD 2-12=-1007/3651, 11-12=-583/2232, 9-11=-227/1334, 7-9=-320/1880

WFBS 4-12=-549/1778, 4-11=-778/377, 5-11=-251/941, 5-9=-206/702, 6-9=-376/260

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=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 0-9-15, Zone1 0-9-15 to 16-6-8, Zone2 16-6-8 to 20-9-7, Zone1 20-9-7 to 32-1-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-MS

- 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) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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



Job Truss Truss Type Qty Ply GIEBEIG - LOT 19 CW T36788353 2 4558297 T16 Roof Special Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 25 13:56:02 2025 Page 1 ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-A0QKAdYgghfkHp2QEV0FXl21?bzHakuKOKZLgPzXNGx 10-6-0 16-6-8 30-1-0 32-1-0 4-2-8 6-0-8 6-6-15 6-11-9 2-0-0 Scale = 1:58.6 4x5 = 6.00 12 5x6 / 20 19 5x6 > 5 2x4 II 2 22 23 9 10 8 8x12 = 3x6 =3x6 =3x6 = 3x4 = 4x6 = 3.00 12 6-3-8 20-10-15 30-1-0 7-3-11 6-3-8 7-3-12 9-2-1 Plate Offsets (X,Y)--[3:0-3-0,0-3-0], [5:0-3-0,0-3-4], [6:0-2-12,0-1-8] LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defI L/d **PLATES** GRIP

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.31 10-11

-0.58 10-11

6

0.22

>999

>618

n/a

240

180

n/a

Rigid ceiling directly applied or 1-4-12 oc bracing.

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

MT20

Weight: 144 lb

244/190

FT = 20%

LUMBER-

TCLL

TCDL

BCLL

BCDL

2x4 SP No 2 2x4 SP No 2

TOP CHORD BOT CHORD WFBS 2x4 SP No.3

20.0

7.0

0.0

10.0

REACTIONS. 1=0-3-8, 6=0-3-8 (size) Max Horz 1=154(LC 12)

Max Uplift 1=-293(LC 12), 6=-320(LC 13) Max Grav 1=1205(LC 2), 6=1305(LC 2)

Plate Grip DOL

Rep Stress Incr

Code FBC2023/TPI2014

Lumber DOL

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

TOP CHORD 1-2=-4060/1046 2-3=-4023/1153 3-4=-1986/507 4-5=-1992/458 5-6=-2144/464 BOT CHORD 1-11=-1046/3705, 10-11=-584/2227, 8-10=-231/1340, 6-8=-325/1887

1.25

1.25

YES

TC

BC

WB

Matrix-MS

0.70

1.00

0.70

WFBS 3-11=-596/1843, 3-10=-774/379, 4-10=-261/956, 4-8=-206/704, 5-8=-376/260

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=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-2, Zone1 3-0-2 to 16-6-8, Zone2 16-6-8 to 20-9-9, Zone1 20-9-9 to 32-1-0 zone; 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) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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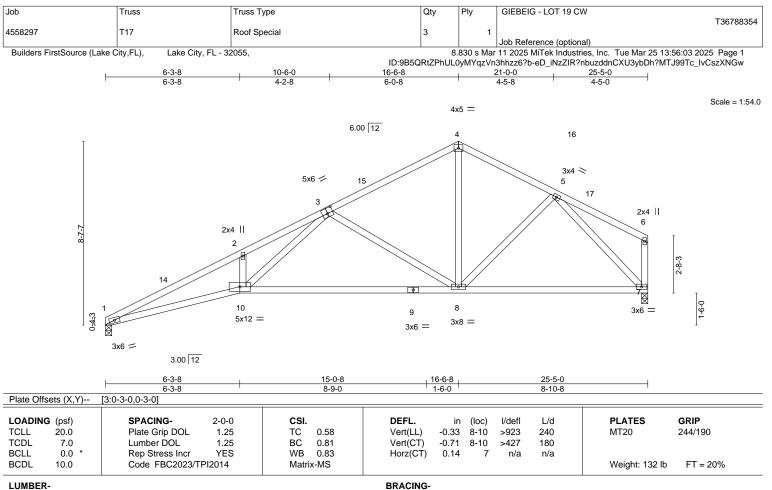
Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

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TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

2x4 SP No.2 *Except* BOT CHORD 7-9: 2x4 SP No.1

WEBS 2x4 SP No.3

REACTIONS.

(size) 1=0-3-8, 7=0-3-8 Max Horz 1=224(LC 12)

Max Uplift 1=-251(LC 12), 7=-216(LC 12) Max Grav 1=935(LC 1), 7=935(LC 1)

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

TOP CHORD 1-2=-3048/938, 2-3=-3026/1047, 3-4=-1006/282, 4-5=-981/311

BOT CHORD 1-10=-1019/2758, 8-10=-570/1546, 7-8=-184/723

WEBS 3-10=-579/1535, 3-8=-838/429, 4-8=-135/565, 5-7=-1020/271

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=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 16-6-8, Zone2 16-6-8 to 20-9-7, Zone1 20-9-7 to 25-3-4 zone; 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.
- 6) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=251, 7=216.
- 8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Structural wood sheathing directly applied or 2-8-12 oc purlins,

Rigid ceiling directly applied or 5-8-13 oc bracing.

except end verticals.

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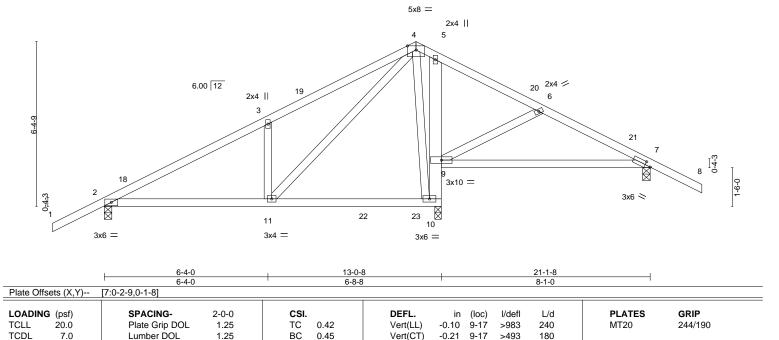
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ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-eD_iNzZIR?nbuzddnCXU3ybG4?R3JFuTc_lvCszXNGw 12-0-12 13-0-8 0-11-12 . 16-9-12 4-3-12 5-8-12 3-9-4 2-0-0

Scale = 1:44.6



Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.01

n/a

n/a

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

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

Weight: 118 lb

FT = 20%

LUMBER-

BCLL

BCDL

TOP CHORD 2x4 SP No.2

0.0

10.0

2x4 SP No.2 *Except* **BOT CHORD** 5-10: 2x6 SP No.2 WFBS 2x4 SP No.3

REACTIONS.

(size) 2=0-3-8, 7=0-3-8, 10=0-3-0

Rep Stress Incr

Code FBC2023/TPI2014

Max Horz 2=150(LC 12)

Max Uplift 2=-186(LC 12), 7=-175(LC 13), 10=-185(LC 12) Max Grav 2=555(LC 27), 7=376(LC 26), 10=972(LC 2)

YES

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

TOP CHORD 2-3=-603/163, 3-4=-621/299 BOT CHORD 2-11=-192/514. 9-10=-401/237

WEBS 3-11=-356/256, 4-11=-310/771, 4-10=-500/151, 6-9=-284/185

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=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 12-0-12, Zone2 12-0-12 to 16-3-11, Zone1 16-3-11 to 23-1-8 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

WB

Matrix-MS

0.40

- 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) except (jt=lb)
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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Job Truss Truss Type Qty Ply GIEBEIG - LOT 19 CW T36788356 4558297 T18G Roof Special Supported Gable Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 25 13:56:04 2025 Page 1 ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-6PX4bJawClvSW7CpLw2jcA8T1Prj2lSdre2SllzXNGv

12-0-12 12-0-12

13-0-8 0-11-12

Scale = 1:43.0

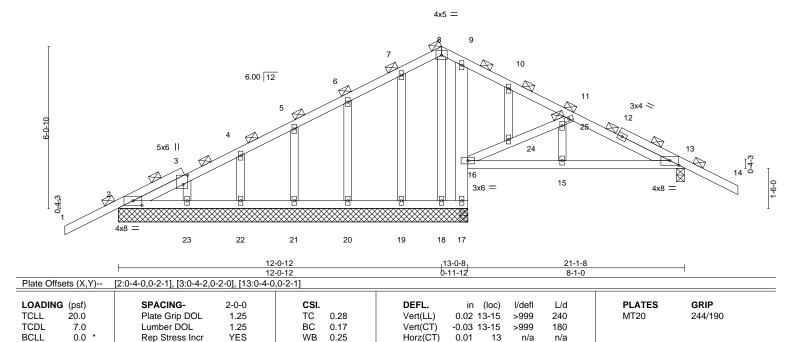
2-0-0

21-1-8

4-3-12

Weight: 132 lb

FT = 20%



LUMBER-

BCDL

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except*

9-17: 2x6 SP No.2 2x4 SP No.3

WFBS

10.0

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

TOP CHORD 2-0-0 oc purlins (6-0-0 max.).

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:

10-0-0 oc bracing: 15-16,13-15.

JOINTS 1 Brace at Jt(s): 8, 25

REACTIONS. All bearings 13-0-8 except (jt=length) 13=0-3-8.

Max Horz 2=145(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 19, 20, 21, 22, 23 except 13=-178(LC 13), 17=-124(LC 8) All reactions 250 lb or less at joint(s) 2, 19, 20, 21, 22, 23, 18 except 13=399(LC 1), 17=353(LC 1), Max Grav 17=353(LC 1)

Matrix-S

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

Code FBC2023/TPI2014

TOP CHORD 11-13=-342/308

BOT CHORD 16-17=-381/301, 15-16=-199/272, 13-15=-199/272 **WEBS** 16-24=-355/311, 24-25=-348/305, 11-25=-318/276

(11)

- 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=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 19, 20, 21, 22, 23 except (jt=lb) 13=178, 17=124.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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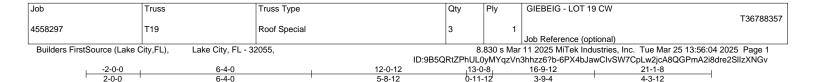
Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

March 26,2025



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





3-9-4

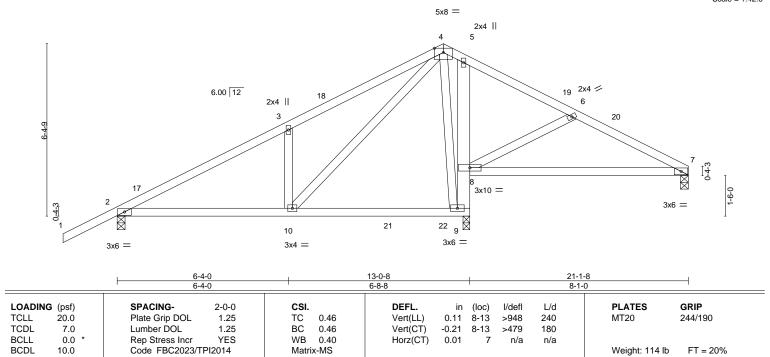
5-8-12

Scale = 1:42.6

4-3-12

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

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



BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 2x4 SP No.2 *Except* **BOT CHORD** 5-9: 2x6 SP No.2

WFBS 2x4 SP No.3

REACTIONS. (size) 7=0-3-8, 2=0-3-8, 9=0-3-0

Max Horz 2=167(LC 12)

Max Uplift 7=-108(LC 8), 2=-179(LC 12), 9=-201(LC 12) Max Grav 7=266(LC 28), 2=554(LC 27), 9=986(LC 2)

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

TOP CHORD 2-3=-602/149 3-4=-620/285 **BOT CHORD** 2-10=-195/508, 8-9=-407/238

WFBS 3-10=-356/256, 4-10=-310/771, 4-9=-485/166, 6-8=-316/205

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=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 12-0-12, Zone2 12-0-12 to 16-3-11, Zone1 16-3-11 to 21-1-8 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) except (jt=lb)
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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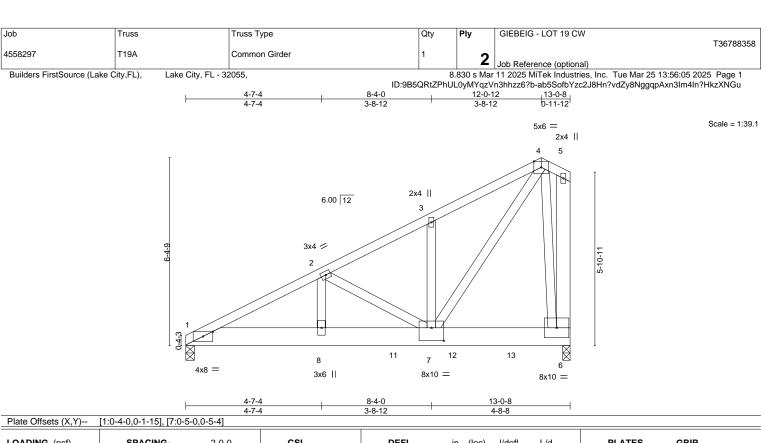
Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

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LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.15	Vert(LL)	-0.04	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.23	Vert(CT)	-0.08	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.79	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code FBC2023/T	PI2014	Matri	x-MS						Weight: 212 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x8 SP 2400F 2.0E

WEBS 2x4 SP No.3 *Except* 5-6: 2x6 SP No.2

REACTIONS. (size) 1=0-3-8, 6=0-3-0

Max Horz 1=222(LC 8)

Max Uplift 1=-531(LC 8), 6=-1012(LC 8) Max Grav 1=1802(LC 1), 6=3024(LC 1)

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

TOP CHORD 1-2=-3792/1126, 2-3=-2886/856, 3-4=-2888/940 BOT CHORD 1-8=-1171/3352, 7-8=-1171/3352, 6-7=-118/336

WEBS 2-8=-195/693, 2-7=-939/360, 4-7=-1392/4134, 4-6=-2166/768

NOTES- (10)

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, 2x6 - 2 rows staggered at 0-9-0 oc.

Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-5-0 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.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=18ft; 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.
- 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=531, 6=1012.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2067 lb down and 677 lb up at 7-0-12, and 911 lb down and 311 lb up at 9-0-12, and 1022 lb down and 303 lb up at 11-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

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

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

except end verticals.

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

March 26,2025

Continued on page 2





	Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 19 CW
						T36788358
	4558297	T19A	Common Girder	1	2	lab Deference (entional)
Į					_	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 25 13:56:05 2025 Page 2 ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-ab5SofbYzc2J8Hn?vdZy8NggqpAxn3Im4ln?HkzXNGu

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf)
Vert: 1-4=-54, 4-5=-54, 1-6=-20

Concentrated Loads (lb)

Vert: 11=-2067(B) 12=-911(B) 13=-911(B)



Job Truss Truss Type Qty Ply GIEBEIG - LOT 19 CW T36788359 4558297 HIP GIRDER T20 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 25 13:56:06 2025 Page 1 ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-3ofq0_bAkwAAmRMCTL4BhbDoiCU7Wh2vIyXZpBzXNGt -2-0-0 5-0-0 5-0-0 14-0-0 16-0-0

Scale = 1:29.3

2-0-0

5-0-0

5-0-0

Rigid ceiling directly applied or 8-6-5 oc bracing.

Structural wood sheathing directly applied or 5-0-9 oc purlins.

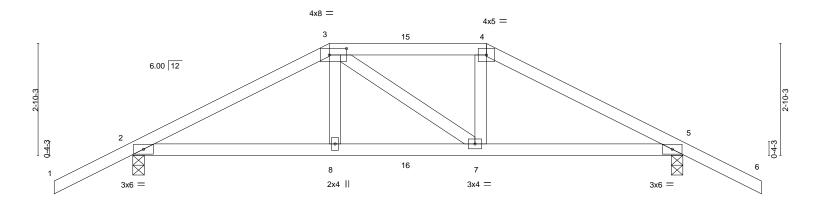


Plate Offsets (X,Y) [3:0-5-4,0-2-0]							
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP			
TCLL 20.0	Plate Grip DOL 1.25	TC 0.34	Vert(LL) 0.04 7-14 >999 240	MT20 244/190			
TCDL 7.0	Lumber DOL 1.25	BC 0.36	Vert(CT) -0.05 8-11 >999 180				
BCLL 0.0 *	Rep Stress Incr NO	WB 0.11	Horz(CT) 0.02 5 n/a n/a				
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS		Weight: 63 lb FT = 20%			

BRACING-

TOP CHORD

BOT CHORD

9-0-0

4-0-0

LUMBER-

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

2-0-0

REACTIONS. (size) 2=0-3-8, 5=0-3-8

Max Horz 2=59(LC 12)

Max Uplift 2=-337(LC 5), 5=-350(LC 4) Max Grav 2=811(LC 1), 5=829(LC 1)

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

5-0-0

5-0-0

TOP CHORD 2-3=-1179/563, 3-4=-1049/552, 4-5=-1220/592 BOT CHORD 2-8=-471/1005, 7-8=-475/1015, 5-7=-478/1041

WFBS 3-8=-72/302. 4-7=-49/290

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=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; 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) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=337, 5=350,
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 72 lb down and 77 lb up at 5-0-0, and 54 lb down and 68 lb up at 7-0-0, and 165 lb down and 171 lb up at 9-0-0 on top chord, and 153 lb down and 54 lb up at 5-0-0, and 63 lb down at 7-0-0, and 153 lb down and 54 lb up at 8-10-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
- 10) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

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

Vert: 1-3=-54, 3-4=-54, 4-6=-54, 9-12=-20

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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:

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



Job	Truss	Truss Type	Qty	Ply	GIEBEIG - LOT 19 CW
					T36788359
4558297	T20	HIP GIRDER	1	1	
					Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 25 13:56:06 2025 Page 2 ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-3ofq0_bAkwAAmRMCTL4BhbDoiCU7Wh2vlyXZpBzXNGt

LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: 3=-54(F) 4=-119(F) 8=-64(F) 7=-64(F) 15=-54(F) 16=-33(F)

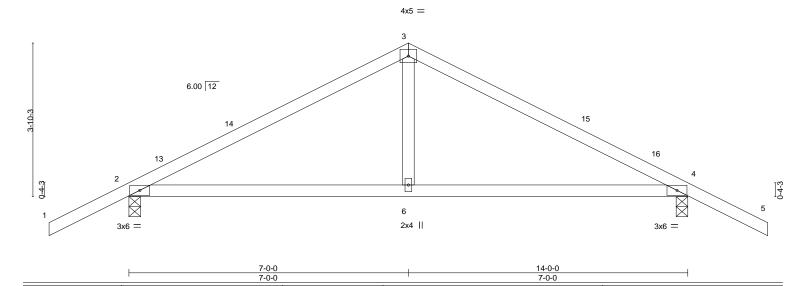




Job Truss Truss Type Qty Ply GIEBEIG - LOT 19 CW T36788360 T21 COMMON 3 4558297 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.830 s Mar 11 2025 MiTek Industries, Inc. Tue Mar 25 13:56:06 2025 Page 1 ID:9B5QRtZPhUL0yMYqzVn3hhzz6?b-3ofq0_bAkwAAmRMCTL4BhbDm?CS_WhxvIyXZpBzXNGt 7-0-0 14-0-0

Scale = 1:28.9

2-0-0



DEFL

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

in (loc)

6-9

0.09

-0.12

0.01

I/defl

>999

>999

n/a

I/d

240

180

n/a

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

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

PLATES

Weight: 56 lb

MT20

GRIP

244/190

FT = 20%

LUMBER-

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

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

20.0

7.0

0.0

10.0

2-0-0

2x4 SP No.3 WFBS

REACTIONS. (size) 2=0-3-8, 4=0-3-8 Max Horz 2=75(LC 12)

Max Uplift 2=-185(LC 12), 4=-185(LC 13) Max Grav 2=626(LC 1), 4=626(LC 1)

SPACING-

Plate Grip DOL

Rep Stress Incr

Code FBC2023/TPI2014

Lumber DOL

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

TOP CHORD 2-3=-705/413, 3-4=-705/413 **BOT CHORD** 2-6=-248/562, 4-6=-248/562

WEBS 3-6=-158/320

NOTES-(7)

- 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=18ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -2-0-0 to 1-0-0, Zone1 1-0-0 to 7-0-0, Zone2 7-0-0 to 11-2-15, Zone1 11-2-15 to 16-0-0 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.

2-0-0

1.25

1.25

YES

CSI.

TC

вс

WB

Matrix-MS

0.51

0.50

0.12

- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=185, 4=185,
- 7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

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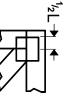


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Symbols

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- $\frac{1}{16}$ " from outside edge of truss.

?

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

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

PLATE SIZE

4 × 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.

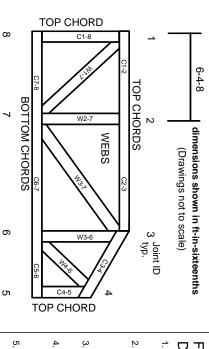
Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction Design Standard for Bracing.

Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-22:

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-1988, ESR-2362, ESR-2685, ESR-3282 ESR-4722, ESL-1388

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/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- 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.

œ

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