

RE: 4260954 - LOT 6 ROSE POINTE

MiTek, Inc.

Site Information: 16023 Swingley Ridge Rd. Chesterfield, MO 63017

Customer Info: RON DAVID PLASTERING Project Name: Spec Hse Model: 1496 314.434.1200

Lot/Block: 6 Subdivision: Rose Pointe

Address: TBD, TBD

City: Columbia Cty State: FL

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

Name: License #:

Address:

City: State:

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

Design Code: FBC2023/TPI2014 Design Program: MiTek 20/20 8.7

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

This package includes 18 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	T35442478	CJ01	11/4/24	15	T35442492	T06	11/4/24
2	T35442479	CJ02	11/4/24	16	T35442493	T07	11/4/24
3	T35442480	CJ03	11/4/24	17	T35442494	T08	11/4/24
4	T35442481	EJ01	11/4/24	18	T35442495	V01	11/4/24
5	T35442482	<u>H</u> J01	11/4/24				
<u>6</u>	T35442483	T01	11/4/24				
7	T35442484	<u>T</u> 01G	11/4/24				
8	T35442485	T02	11/4/24				
9	T35442486	T03	11/4/24				
10	T35442487	T03G	11/4/24				
11	T35442488	T04	11/4/24				
12	T35442489	T04G	11/4/24				
13 14	T35442490 T35442491	T05 T05G	11/4/24				
14	133442491	103G	11/4/24				

This item has been digitally signed and sealed by ORegan, Philip, PE on the date adjacent to the seal.

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

Truss Design Engineer's Name: ORegan, Philip

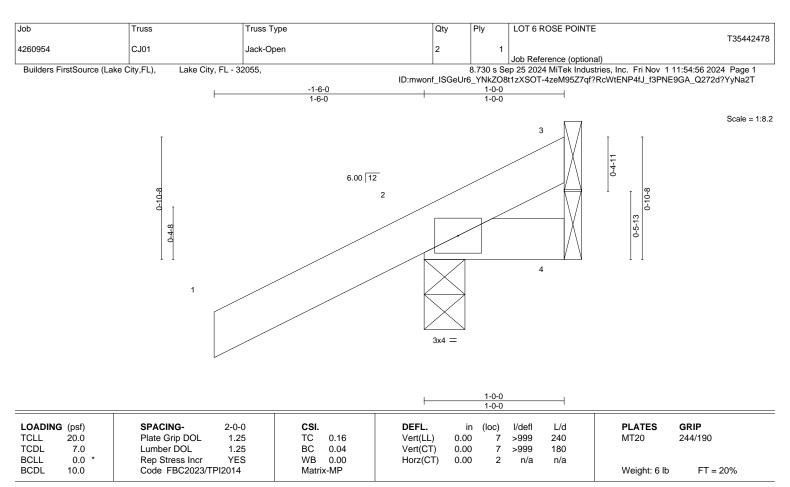
My license renewal date for the state of Florida is February 28, 2025.

**IMPORTANT NOTE:** The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.



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

November 4,2024



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

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 1-0-0 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=44(LC 12)

Max Uplift 3=-6(LC 1), 2=-79(LC 12), 4=-19(LC 1) Max Grav 3=9(LC 8), 2=179(LC 1), 4=20(LC 16)

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=20ft; 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
- 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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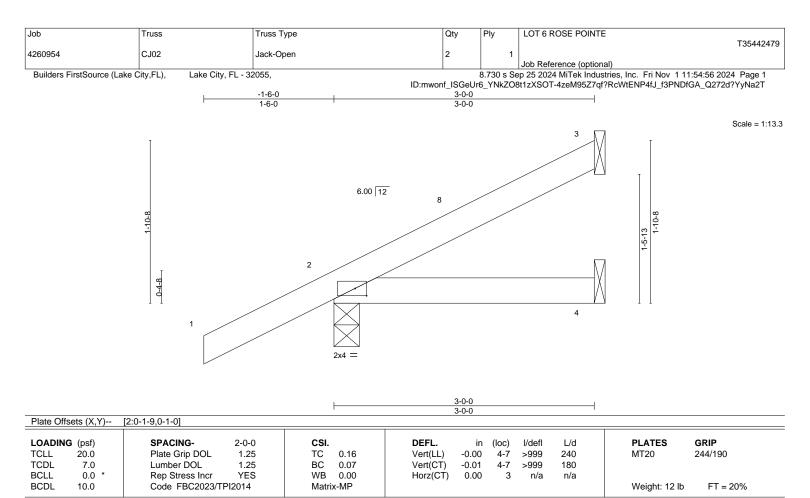
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November 4,2024



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





LUMBER-TOP CHORD BOT CHORD

2x4 SP No.2 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=82(LC 12)

Max Uplift 3=-41(LC 12), 2=-69(LC 12)

Max Grav 3=60(LC 1), 2=210(LC 1), 4=50(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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 2-11-4 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, 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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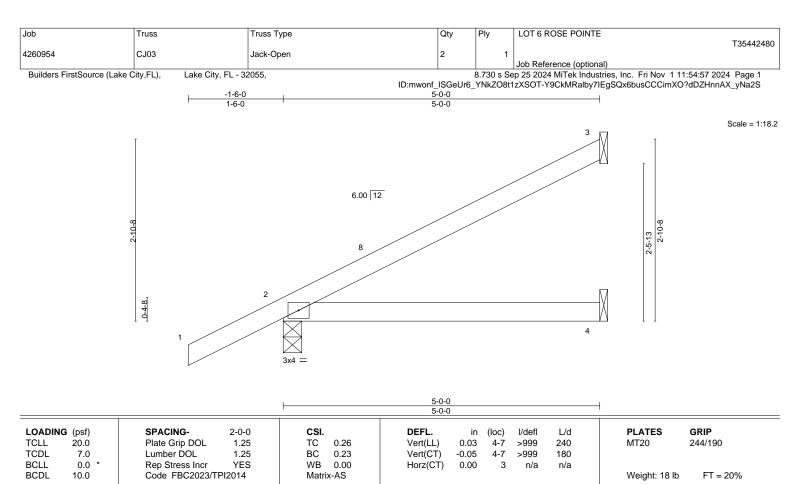
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TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No 2 BRACING-

TOP CHORD BOT CHORD Structural wood sheathing directly applied.

Rigid ceiling directly applied.

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

Max Horz 2=120(LC 12)

Max Uplift 3=-78(LC 12), 2=-79(LC 12)

Max Grav 3=115(LC 1), 2=276(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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 4-11-4 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, 2.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 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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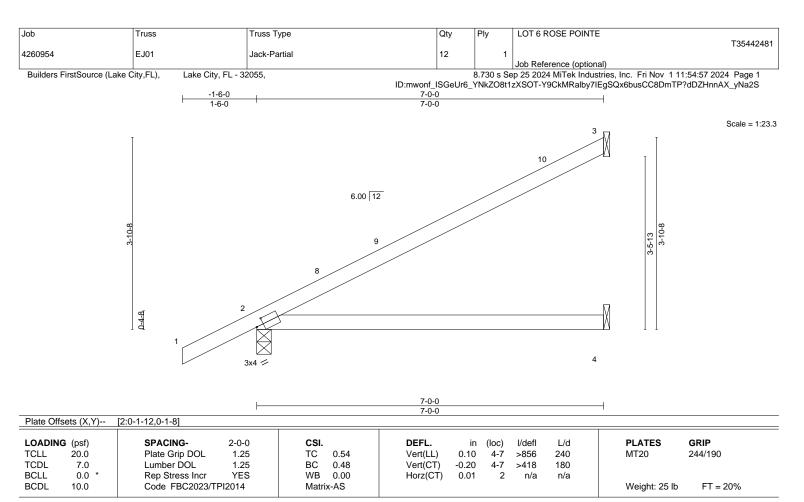
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TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 BRACING-

TOP CHORD Structural wood sheathing directly applied. **BOT CHORD** Rigid ceiling directly applied.

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

Max Horz 2=153(LC 12)

Max Uplift 3=-102(LC 12), 2=-93(LC 12)

Max Grav 3=168(LC 1), 2=346(LC 1), 4=122(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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 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) 2 except (jt=lb) 3=102.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 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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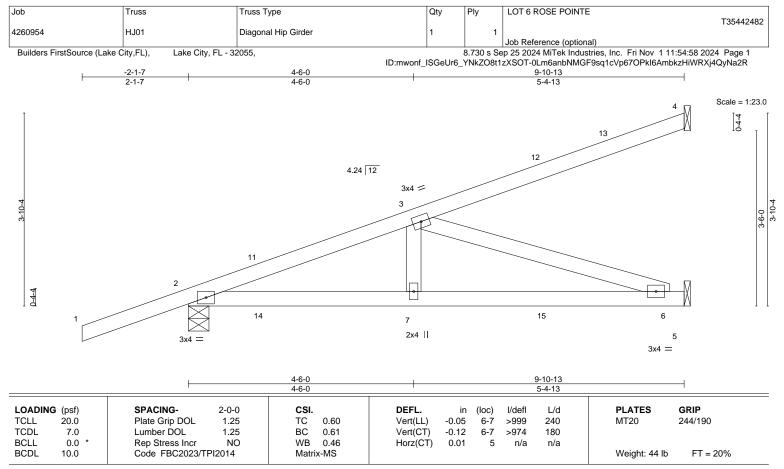
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TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 2x4 SP No.3 WFBS

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=167(LC 25)

Max Uplift 4=-92(LC 4), 2=-167(LC 4), 5=-64(LC 8) Max Grav 4=151(LC 1), 2=530(LC 1), 5=299(LC 1)

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

TOP CHORD 2-3=-820/211

**BOT CHORD** 2-7=-257/751 6-7=-257/751 WFBS 3-7=0/283, 3-6=-789/269

### NOTES-(9)

- 1) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 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 = 167
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 69 lb down and 63 lb up at 1-5-12, 69 lb down and 63 lb up at 1-5-12, 23 lb down and 46 lb up at 4-3-11, 23 lb down and 46 lb up at 4-3-11, and 46 lb down and 89 lb up at 7-1-10, and 46 lb down and 89 lb up at 7-1-10 on top chord, and 20 lb down and 39 lb up at 1-5-12, 20 lb down and 39 lb up at 1-5-12, 23 lb down at 4-3-11, 23 lb down at 4-3-11, and 40 lb down at 7-1-10, and 40 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=-6(F=-3, B=-3) 12=-76(F=-38, B=-38) 15=-55(F=-28, B=-28)

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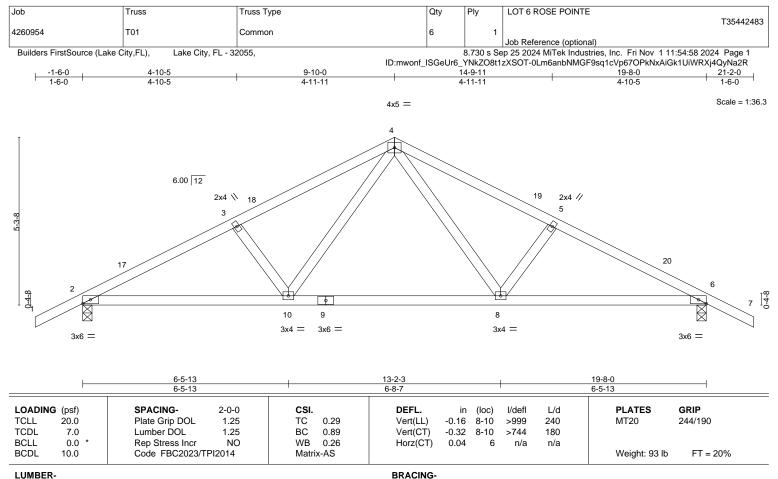
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MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE





TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

2x4 SP No.3 WFBS

REACTIONS. (size) 2=0-3-8, 6=0-3-8 Max Horz 2=95(LC 16)

Max Uplift 2=-290(LC 12), 6=-290(LC 13) Max Grav 2=1010(LC 1), 6=1010(LC 1)

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

TOP CHORD 2-3=-1730/495, 3-4=-1594/494, 4-5=-1594/494, 5-6=-1730/495

2-10=-433/1499, 8-10=-212/1007, 6-8=-378/1499 **BOT CHORD** WFBS 4-8=-218/670, 4-10=-217/670

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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 9-10-0, Zone2 9-10-0 to 14-0-15, Zone1 14-0-15 to 21-2-0 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) 2=290, 6=290.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 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, 4-7=-54, 10-11=-20, 8-10=-80(F=-60), 8-14=-20

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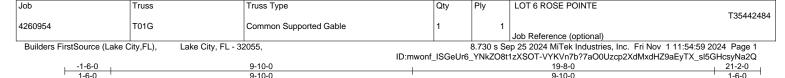
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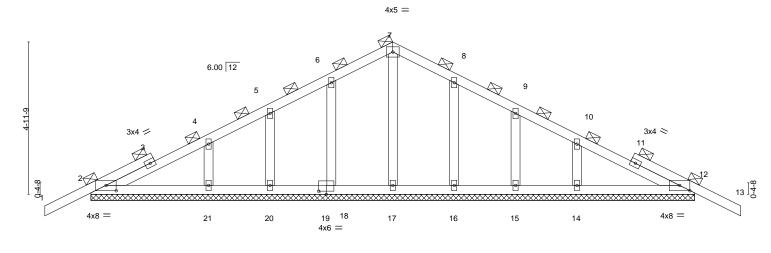


Plate Offsets (X,Y) [2:0-4-0,0-2-1], [12:0-4-0,0-2-1], [19:0-3-0,0-1-4]												
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.13	Vert(LL)	-0.00	13	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	-0.00	13	n/r	120		
BCLL	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	Matri	x-S						Weight: 100 lb	FT = 20%

19-8-0 19-8-0

LUMBER-

OTHERS

TOP CHORD 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.

REACTIONS. All bearings 19-8-0.

(lb) -Max Horz 2=89(LC 16)

Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 18, 20, 21, 16, 15, 14 Max Grav All reactions 250 lb or less at joint(s) 2, 12, 17, 18, 20, 21, 16, 15, 14

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C 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.
- 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, 20, 21,
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 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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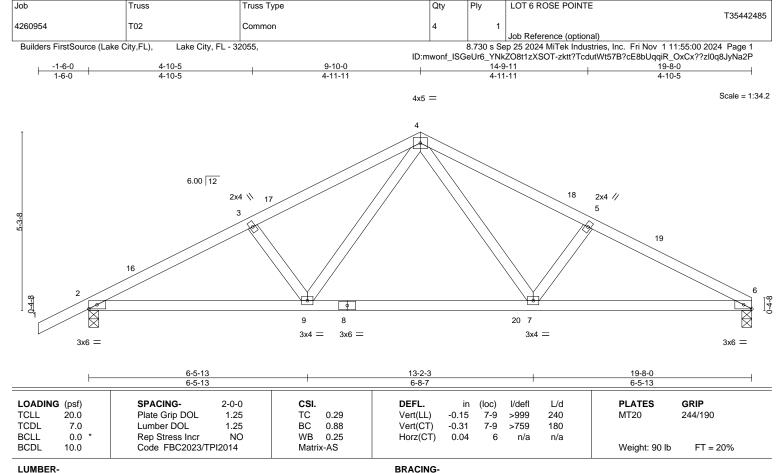
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TOP CHORD

BOT CHORD

Ply

LOT 6 ROSE POINTE

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

Job

Truss

Truss Type

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

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

Max Horz 2=107(LC 16) Max Uplift 6=-246(LC 13), 2=-288(LC 12) Max Grav 6=907(LC 1), 2=1003(LC 1)

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

TOP CHORD 2-3=-1715/501, 3-4=-1580/500, 4-5=-1572/508, 5-6=-1709/508 2-9=-441/1486, 7-9=-220/994, 6-7=-394/1485 **BOT CHORD** 

WFBS 4-7=-217/655, 4-9=-217/669

### 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 9-10-0, Zone2 9-10-0 to 14-0-15, Zone1 14-0-15 to 19-8-0 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) 6=246, 2=288.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 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, 4-6=-54, 9-13=-20, 9-20=-80(F=-60), 10-20=-20

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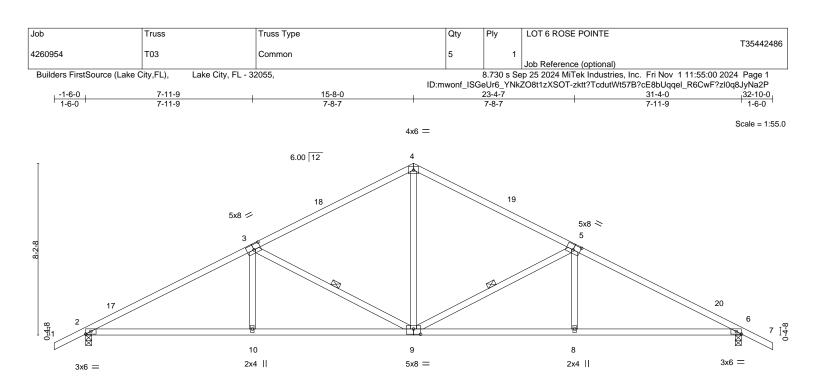
Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

November 4,2024



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<del></del>	7-11-9 7-11-9	15-8-0 7-8-7	23-4-7 7-8-7	31-4-0 7-11-9		
Plate Offsets (X,Y) [3:0-4-0,0-3-0], [5:0-4-0,0-3-0]						
LOADING (psf)	SPACING- 2-0	-0 <b>CSI</b> .	<b>DEFL.</b> in (loc) I/defl L/	d PLATES GRIP		
TCLL 20.0	Plate Grip DOL 1.:	25 TC 0.53	Vert(LL) 0.11 10-13 >999 24	0 MT20 244/190		
TCDL 7.0	Lumber DOL 1.:	25 BC 0.68	Vert(CT) -0.23 10-13 >999 18	60		

Horz(CT)

**BRACING-**

TOP CHORD

**BOT CHORD** 

WFBS

0.08

n/a

Rigid ceiling directly applied.

1 Row at midpt

n/a

Structural wood sheathing directly applied

5-9.3-9

Weight: 151 lb

FT = 20%

LUMBER-

**BCLL** 

BCDL

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

0.0

10.0

REACTIONS.

(size) 2=0-3-8, 6=0-3-8 Max Horz 2=143(LC 16)

Max Uplift 2=-335(LC 12), 6=-335(LC 13) Max Grav 2=1240(LC 1), 6=1240(LC 1)

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=-2077/506 3-4=-1414/382 4-5=-1414/382 5-6=-2077/506 **BOT CHORD** 2-10=-484/1788, 9-10=-484/1788, 8-9=-342/1788, 6-8=-342/1788 WFBS 4-9=-163/794, 5-9=-712/337, 5-8=0/323, 3-9=-712/337, 3-10=0/323

### 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 15-8-0, Zone2 15-8-0 to 19-10-15, Zone1 19-10-15 to 32-10-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

WB 0.30

Matrix-AS

- 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) 2=335, 6=335.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 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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1-6-0 Scale = 1:57.8

15-8-0

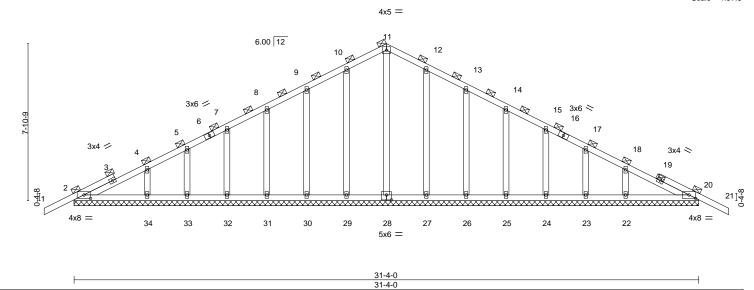


Plate Offsets (X,Y)--[2:0-4-0,0-2-1], [20:0-4-0,0-2-1], [28:0-3-0,0-3-0] LOADING (psf) SPACING-DEFL. (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.13 Vert(LL) -0.00 21 n/r 120 MT20 244/190 **TCDL** 7.0 Lumber DOL 1.25 вс 0.09 Vert(CT) -0.00 21 120 n/r **BCLL** 0.0 Rep Stress Incr YES WB 0.15 Horz(CT) 0.01 20 n/a n/a BCDL 10.0 Code FBC2023/TPI2014 Matrix-S Weight: 188 lb FT = 20%

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No 2 **BOT CHORD** 2x4 SP No 2 2x4 SP No 3 TOP CHORD 2-0-0 oc purlins (6-0-0 max.). **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 31-4-0.

Max Horz 2=138(LC 16) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 29, 30, 31, 32, 33, 34, 27, 26, 25, 24, 23, 22, 20 Max Grav All reactions 250 lb or less at joint(s) 2, 28, 29, 30, 31, 32, 33, 34, 27, 26, 25, 24, 23, 22, 20

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

OTHERS

- 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=20ft; 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.
- 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, 29, 30, 31, 32, 33, 34, 27, 26, 25, 24, 23, 22, 20,
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) 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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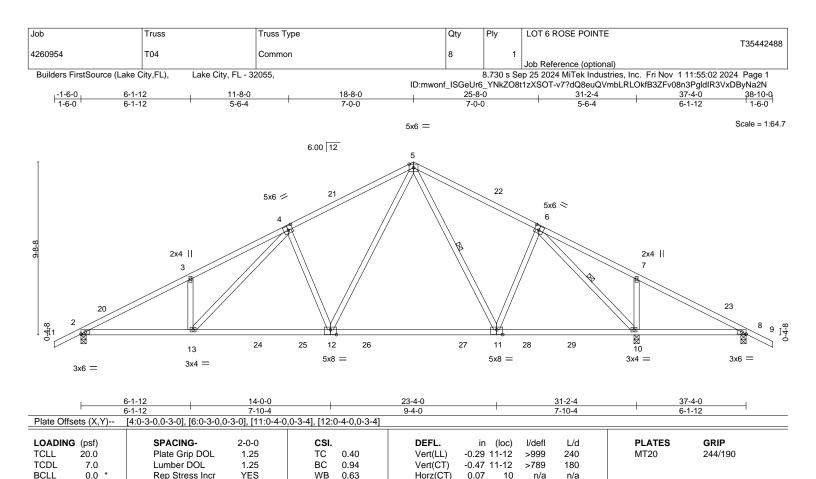
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**BCLL** 

BCDL

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

0.0

10.0

2x4 SP No 3 WFBS

**BRACING-**

Horz(CT)

0.07

10

0.63

Matrix-AS

TOP CHORD **BOT CHORD** WFBS

Structural wood sheathing directly applied

n/a

Weight: 203 lb

FT = 20%

Rigid ceiling directly applied. 1 Row at midpt 5-11, 6-10

n/a

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

Max Horz 2=168(LC 12)

Max Uplift 2=-339(LC 12), 10=-382(LC 13), 8=-96(LC 8) Max Grav 2=1318(LC 2), 10=1830(LC 2), 8=198(LC 26)

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=-2319/526, 3-4=-2312/642, 4-5=-1627/460, 5-6=-1176/345, 6-7=-48/460,

7-8=-119/445

 $2\text{-}13\text{=-}542/2051,\ 12\text{-}13\text{=-}374/1605,\ 11\text{-}12\text{=-}124/997,\ 10\text{-}11\text{=-}83/848,\ 8\text{-}10\text{=-}333/143}$ BOT CHORD **WEBS**  $6\text{-}11\text{=-}16/443,\ 6\text{-}10\text{=-}1737/333,\ 7\text{-}10\text{=-}327/223,\ 5\text{-}12\text{=-}279/952,\ 4\text{-}12\text{=-}539/329,}$ 

YES

4-13=-247/655, 3-13=-287/213

### 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 18-8-0, Zone2 18-8-0 to 22-10-15, Zone1 22-10-15 to 38-10-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 2=339, 10=382,
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 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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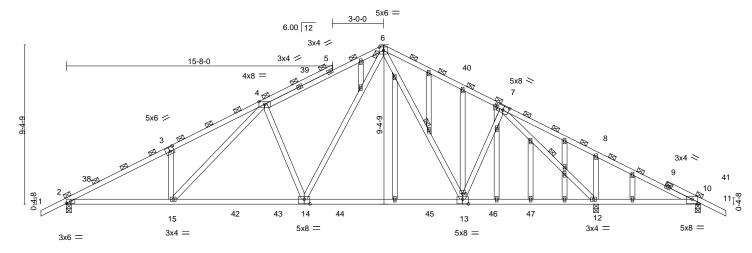
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Scale = 1:67.8



6-1-12 7-10-4 9-4-0 7-10-4 6-1-12 Plate Offsets (X,Y)--[3:0-3-0,0-3-0], [7:0-4-0,0-3-0], [10:0-4-0,0-3-1], [13:0-2-0,0-0-5], [13:0-4-0,0-3-4], [14:0-4-0,0-3-4], [23:0-2-0,0-0-1], [13:0-4-0,0-3-4], [14:0-4-0,0LOADING (psf) SPACING-CSI. **DEFL** L/d **PLATES** GRIP (loc) **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.93 Vert(LL) -0.29 13-14 MT20 244/190 >999 240 -0.47 13-14 **TCDL** 1.25 ВС 0.96 7.0 Lumber DOL Vert(CT) >791 180 **BCLL** WB 0.65 Horz(CT) 0.07 0.0 Rep Stress Incr YES n/a n/a BCDL 10.0 Code FBC2023/TPI2014 Weight: 259 lb FT = 20%

23-4-0

**BRACING-**

WFRS

TOP CHORD

BOT CHORD

31-2-4

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

6-13, 7-12

2-0-0 oc purlins (2-2-0 max.).

1 Row at midpt

LUMBER-

TOP CHORD 2x4 SP No.2 \*Except\*

4-6: 2x4 SP No.1

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

WEBS 2x4 SP No.3 OTHERS 2x4 SP No.3

**REACTIONS.** (lb/size) 2=1193/0-3-8, 10=96/0-3-8, 12=1632/0-3-8

6-1-12

Max Horz 2=163(LC 12)

Max Uplift 2=-339(LC 12), 10=-61(LC 10), 12=-416(LC 13) Max Grav 2=1312(LC 2), 10=160(LC 26), 12=1848(LC 2)

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

TOP CHORD 2-38=-2313/513, 3-38=-2260/530, 3-4=-2298/640, 4-39=-1608/434, 5-39=-1536/439,

5-6=-1534/449, 6-40=-1141/328, 7-40=-1213/312, 7-8=-101/540, 8-9=-177/544,

9-41=-181/459, 10-41=-182/457

BOT CHORD 2-15=-542/2054, 15-42=-364/1601, 42-43=-364/1601, 14-43=-364/1601, 14-44=-127/1024,

44-45=-127/1024, 13-45=-127/1024, 13-46=-88/879, 46-47=-88/879, 12-47=-88/879,

14-0-0

10-12=-433/222

WEBS 7-13=-12/420, 7-12=-1872/378, 8-12=-293/203, 6-14=-266/913, 4-14=-503/313,

4-15=-249/652, 3-15=-282/214

### **NOTES-** (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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 18-8-0, Zone2 18-8-0 to 22-10-15, Zone1 22-10-15 to 38-10-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
  to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 339 lb uplift at joint 2, 61 lb uplift at joint 10 and 416 lb uplift at joint 12.
- 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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37-4-0

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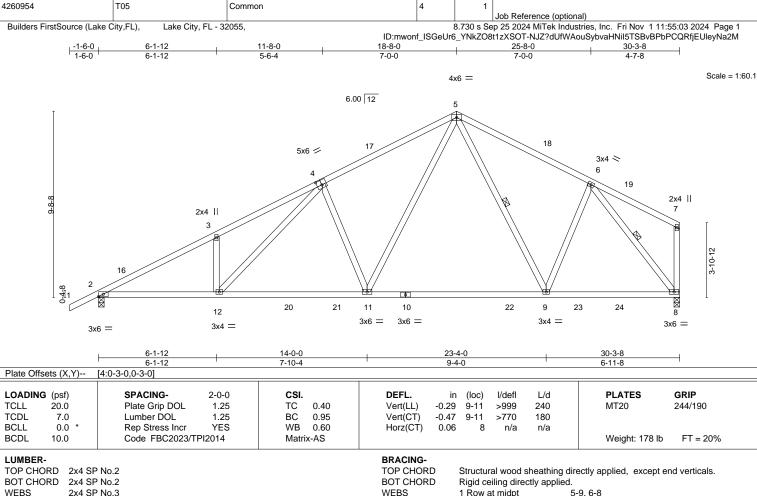


Job	Truss	Truss Type	Qty	Ply	LOT 6 ROSE POINTE
4000054	T040	CARLE			T35442489
4260954	T04G	GABLE	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

8.730 s Jul 11 2024 MiTek Industries, Inc. Mon Nov 4 07:46:33 2024 Page 2 ID:mwonf\_ISGeUr6\_YNkZO8t1zXSOT-fqNvhaJVWb6PiyXfcgBSaXCUozCozv5o3QYEvDyMePK

LOAD CASE(S) Standard



Qty

Ply

LOT 6 ROSE POINTE

T35442490

REACTIONS.

Job

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

Truss

Truss Type

Max Horz 2=259(LC 12) Max Uplift 2=-337(LC 12), 8=-252(LC 13) Max Grav 2=1317(LC 2), 8=1281(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2318/522 3-4=-2311/638 4-5=-1626/457 5-6=-1176/317 **BOT CHORD** 2-12=-630/2025. 11-12=-462/1580. 9-11=-212/972. 8-9=-169/857

WFBS 3-12=-287/213, 4-12=-247/655, 4-11=-539/329, 5-11=-278/953, 6-9=-20/418,

6-8=-1377/278

### 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 18-8-0, Zone2 18-8-0 to 22-10-15, Zone1 22-10-15 to 30-1-12 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=337, 8=252,
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 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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Job Truss Truss Type Qty LOT 6 ROSE POINTE T35442491 4260954 T05G GABLE Job Reference (optional) 8.730 s Jul 11 2024 MiTek Industries, Inc. Mon Nov 4 07:50:04 2024 Page 1 Builders FirstSource, Lake City, FL 32055 ID:mwonf\_ISGeUr6\_YNkZO8t1zXSOT-zQdg\_jtspQhTWNADTUTwd1Rd91DwvLTsal9vpUyMeM1 25-8-0 7-0-0 6-1-12 30-3-8 7-0-0 5-6-4 Scale = 1:59.0 4x5 =6.00 12 33 5x6 / 3x4 < 3x4 / 3x4 / 3x10 || 3x4 / 3x4 / 3-6-13 Ø 36 37 11 12 38 10 13 3x6 = 3x6 =3x4 =3x4 =4x8 = 3x4 = 14-0-0 6-1-12 7-10-4 9-4-0 6-11-8 Plate Offsets (X,Y)--[2:0-4-0,0-2-1], [5:0-3-0,0-3-0] LOADING (psf) SPACING-CSI. **DEFL** in (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.63 Vert(LL) -0.31 10-12 >999 240 MT20 244/190 -0.48 10-12 **TCDL** 7.0 1.25 ВС 0.98 Vert(CT) 180 Lumber DOL >748 **BCLL** WB 0.58 Horz(CT) 0.0 Rep Stress Incr YES 0.06 n/a n/a BCDL 10.0 Code FBC2023/TPI2014 Matrix-MS Weight: 244 lb FT = 20%

LUMBER-

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

2x4 SP No.3 WEBS OTHERS 2x4 SP No.3

**BRACING-**

TOP CHORD BOT CHORD WFRS

2-0-0 oc purlins (3-8-9 max.), except end verticals. Rigid ceiling directly applied or 2-2-0 oc bracing.

1 Row at midpt 6-10, 7-9

REACTIONS. (lb/size) 2=1201/0-3-8, 9=1108/0-3-8

Max Horz 2=246(LC 12)

Max Uplift 2=-342(LC 12), 9=-252(LC 13) Max Grav 2=1311(LC 2), 9=1244(LC 2)

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

2-32=-2336/512, 3-32=-2333/529, 3-4=-2327/619, 4-5=-2233/628, 5-33=-1675/451, TOP CHORD

6-33=-1600/467, 6-34=-1132/324, 7-34=-1205/308

BOT CHORD 2-13=-630/2068, 13-36=-478/1643, 36-37=-478/1643, 12-37=-478/1643, 11-12=-212/982,

11-38=-212/982, 10-38=-212/982, 9-10=-177/889

**WEBS** 5-13=-217/608, 5-12=-567/337, 6-12=-285/985, 7-10=-9/384, 7-9=-1394/282

- 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 18-8-0, Zone2 18-8-0 to 22-10-15, Zone1 22-10-15 to 30-1-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 342 lb uplift at joint 2 and 252 lb uplift at ioint 9
- 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.

LOAD CASE(S) Standard

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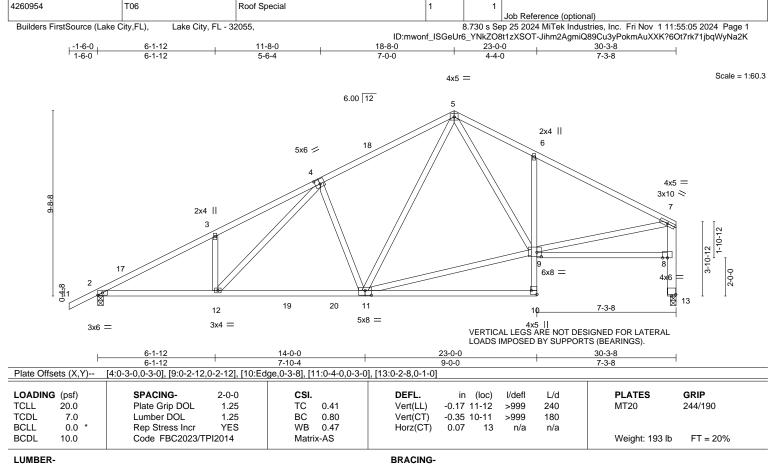
Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

November 4,2024



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** 

Qty

Ply

LOT 6 ROSE POINTE

Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

T35442492

LUMBER-TOP CHORD

Job

2x4 SP No.2

**BOT CHORD** 2x4 SP No.2 \*Except\* 6-10: 2x4 SP No.3

**WEBS** 2x4 SP No.3 \*Except\* 7-13: 2x6 SP No.2

REACTIONS.

(size) 2=0-3-8, 13=0-3-8 Max Horz 2=260(LC 12)

Truss

Truss Type

Max Uplift 2=-337(LC 12), 13=-251(LC 13) Max Grav 2=1278(LC 2), 13=1199(LC 2)

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

TOP CHORD 2-3=-2238/521, 3-4=-2229/636, 4-5=-1535/456, 5-6=-1445/428, 6-7=-1510/357,

8-13=-1199/251, 7-8=-1063/273

BOT CHORD 2-12=-629/1953, 11-12=-462/1500, 6-9=-322/241

**WEBS**  $3-12=-284/212,\ 4-12=-246/669,\ 4-11=-539/332,\ 5-11=-220/706,\ 9-11=-239/962,$ 

5-9=-208/529, 7-9=-245/1136

### 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 18-8-0, Zone2 18-8-0 to 22-11-1, Zone1 22-11-1 to 30-0-12 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) 13 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=337, 13=251.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 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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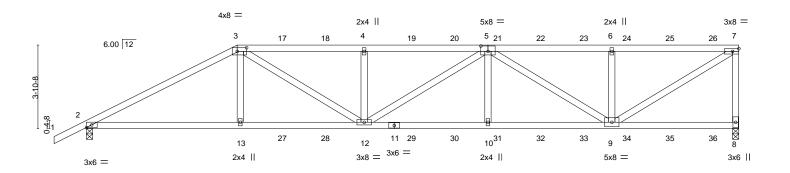
		71.	",			T:	35442493
4260954	T07	Half Hip Girder	1	2	Job Reference (optiona	I)	
					Job Reference (optiona	1)	
Builders FirstSource (Lake 0	City,FL), Lake City, FL -	32055,		8.730 s Se	ep 25 2024 MiTek Industr	ries, Inc. Fri Nov 1 11:55:06 2024 F	Page 1
			ID:mwonf_ISGeUr	6_YNkZO8t	1zXSOT-nuF8FWhOTjG(	Dp2e9zVF?j53euPTwcW?uMhT9Mzy	/Na2J
1-6-0	7-0-0	12-10-12	18-7-12		24-4-12	30-3-8	
1-6-0	7-0-0	5-10-12	5-9-0		5-9-0	5-10-12	

Qty

Plv

LOT 6 ROSE POINTE

Scale = 1:53.5



	7-0-0	12	2-10-12	18-7-12	24-4-12	30-3-8
	7-0-0	5-	-10-12	5-9-0	5-9-0	5-10-12
Plate Offsets (X,Y)	[3:0-5-4,0-2-0], [5:0-4-0,0-3	-0]				
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code FBC2023/TPI	2-0-0 1.25 1.25 NO 2014	CSI. TC 0.68 BC 0.71 WB 0.73 Matrix-MS	- ' '	10-12 >999 240 10-12 >999 180	PLATES GRIP MT20 244/190 Weight: 313 lb FT = 20%

LUMBER-TOP CHORD

Job

2x4 SP No 2 2x4 SP No 2

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

TOP CHORD Structural wood sheathing directly applied or 4-6-8 oc purlins,

except end verticals.

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

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

Max Horz 2=161(LC 8)

Truss

Truss Type

Max Uplift 8=-796(LC 5), 2=-742(LC 8) Max Grav 8=2444(LC 1), 2=2300(LC 1)

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

TOP CHORD 2-3=-4411/1388, 3-4=-5251/1711, 4-5=-5251/1711, 5-6=-3326/1082, 6-7=-3326/1082,

7-8=-2314/823

BOT CHORD 2-13=-1290/3868, 12-13=-1291/3889, 10-12=-1626/5002, 9-10=-1626/5002 3-13=-17/654, 3-12=-579/1669, 4-12=-706/421, 5-12=-153/294, 5-10=0/451, **WEBS** 

5-9=-1975/658, 6-9=-693/417, 7-9=-1254/3853

### NOTES-(11)

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

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

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

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

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 6) Provide adequate drainage to prevent water ponding.
- 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) except (jt=lb) 8=796, 2=742.

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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:

November 4,2024

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Job	Truss	Truss Type	Qty	Ply	LOT 6 ROSE POINTE	
						T35442493
4260954	T07	Half Hip Girder	1	2	Job Reference (optional)	
					Job Reference (optional)	

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.730 s Sep 25 2024 MiTek Industries, Inc. Fri Nov 1 11:55:06 2024 Page 2 ID:mwonf\_ISGeUr6\_YNkZO8t1zXSOT-nuF8FWhOTjG0p2e9zVF?j53euPTwcW?uMhT9MzyNa2J

### NOTES-

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 236 lb down and 201 lb up at 7-0-0, 114 lb down and 105 lb up at 9-0-12, 114 lb down and 105 lb up at 11-0-12, 114 lb down and 105 lb up at 13-0-12, 114 lb down and 105 lb up at 15-0-12, 114 lb down and 105 lb up at 17-0-12, 114 lb down and 105 lb up at 17-0-12, 114 lb down and 105 lb up at 18-0-12, 114 lb down and 105 lb u lb down and 100 lb up at 19-0-12, 114 lb down and 105 lb up at 21-0-12, 114 lb down and 105 lb up at 23-0-12, 114 lb down and 105 lb up at 25-0-12, and 114 lb down and 105 lb up at 27-0-12, and 114 lb down and 105 lb up at 29-0-12 on top chord, and 330 lb down and 91 lb up at 7-0-0, 82 lb down at 9-0-12, 82 lb down at 11-0-12, 82 lb down at 13-0-12, 82 lb down at 15-0-12, 82 lb down at 17-0-12, 82 lb down at 19-0-12, 82 lb down at 21-0-12, 82 lb down at 23-0-12, 82 lb down at 27-0-12, and 82 lb down at 29-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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.

### LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-54, 3-7=-54, 8-14=-20

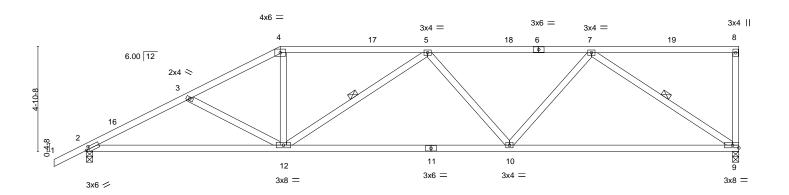
Concentrated Loads (lb)

Vert: 3=-189(F) 13=-330(F) 12=-60(F) 4=-114(F) 17=-114(F) 18=-114(F) 19=-114(F) 20=-114(F) 21=-114(F) 22=-114(F) 23=-114(F) 24=-114(F) 25=-114(F) 25=-114( 26=-114(F) 27=-60(F) 28=-60(F) 29=-60(F) 30=-60(F) 31=-60(F) 32=-60(F) 33=-60(F) 34=-60(F) 35=-60(F) 36=-60(F)



Job Truss Truss Type Qty Ply LOT 6 ROSE POINTE T35442494 4260954 T08 Half Hip Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Sep 25 2024 MiTek Industries, Inc. Fri Nov 1 11:55:07 2024 Page 1 ID:mwonf\_ISGeUr6\_YNkZO8t1zXSOT-G4oWTsi0E1OtRCDLWCmEGJcnXonLL0x1aLCiuPyNa2I <del>-1-6-0</del> <del>1-6-0</del> 4-9-9 15-10-2 4-9-9 6-10-2 6-10-2

Scale = 1:53.5



<u> </u>	9-0-0 9-0-0	19-7-12 10-7-12		-	30-3-8 10-7-13
Plate Offsets (X,Y)		10-7-12			10-7-13
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc	c) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.81	Vert(LL) -0.25 9-1	0 >999 240	MT20 244/190
TCDL 7.0	Lumber DOL 1.25		Vert(CT) -0.50 9-1	0 >716 180	
BCLL 0.0 *	Rep Stress Incr YES		Horz(CT) 0.08	9 n/a n/a	
BCDL 10.0	Code FBC2023/TPI2014	Matrix-AS			Weight: 155 lb FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

WFBS

LUMBER-

TOP CHORD 2x4 SP No 2

2x4 SP No.2 \*Except\* **BOT CHORD** 

9-11: 2x4 SP No.1

WFBS 2x4 SP No.3

REACTIONS.

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

Max Horz 2=199(LC 12)

Max Uplift 9=-353(LC 9), 2=-359(LC 12) Max Grav 9=1113(LC 1), 2=1198(LC 1)

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

TOP CHORD 2-3=-2056/606, 3-4=-1814/520, 4-5=-1593/503, 5-7=-1675/485

BOT CHORD 2-12=-658/1808, 10-12=-594/1862, 9-10=-434/1300

**WEBS**  $3-12=-261/178,\ 4-12=-77/529,\ 5-12=-426/215,\ 5-10=-294/232,\ 7-10=-142/626,$ 

7-9=-1525/521

### 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 30-1-12 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) 9=353, 2=359.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 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, except end verticals.

5-12. 7-9

Rigid ceiling directly applied.

1 Row at midpt

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November 4,2024

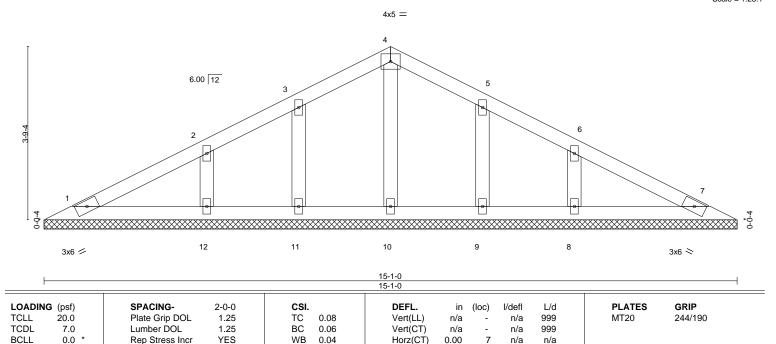


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.



Job Truss Truss Type Qty Ply LOT 6 ROSE POINTE T35442495 4260954 V01 **GABLE** Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Sep 25 2024 MiTek Industries, Inc. Fri Nov 1 11:55:07 2024 Page 1 ID:mwonf\_ISGeUr6\_YNkZO8t1zXSOT-G4oWTsi0E1OtRCDLWCmEGJcy?o\_ML861aLCiuPyNa2I

Scale = 1:25.1



LUMBER-

BCDL

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

10.0

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.

7-6-8

REACTIONS. All bearings 15-1-0.

Max Horz 1=-58(LC 13)

Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 11, 9 except 12=-101(LC 12), 8=-101(LC 13)

Matrix-S

Max Grav All reactions 250 lb or less at joint(s) 1, 7, 10, 11, 12, 9, 8

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

Weight: 60 lb

FT = 20%

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

Code FBC2023/TPI2014

### 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=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-7-9 to 3-6-8, Zone1 3-6-8 to 7-6-8, Zone2 7-6-8 to 11-6-8, Zone1 11-6-8 to 14-5-7 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) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 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) 1, 7, 11, 9 except (jt=lb) 12=101, 8=101.
- 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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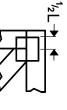


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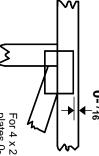


### Symbols

## 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- <sup>1</sup>/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

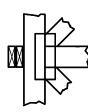
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## 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.

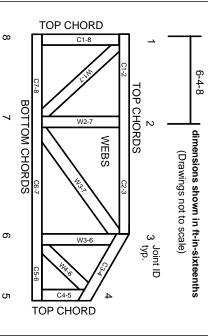
### Industry Standards:

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.

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- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.

'n

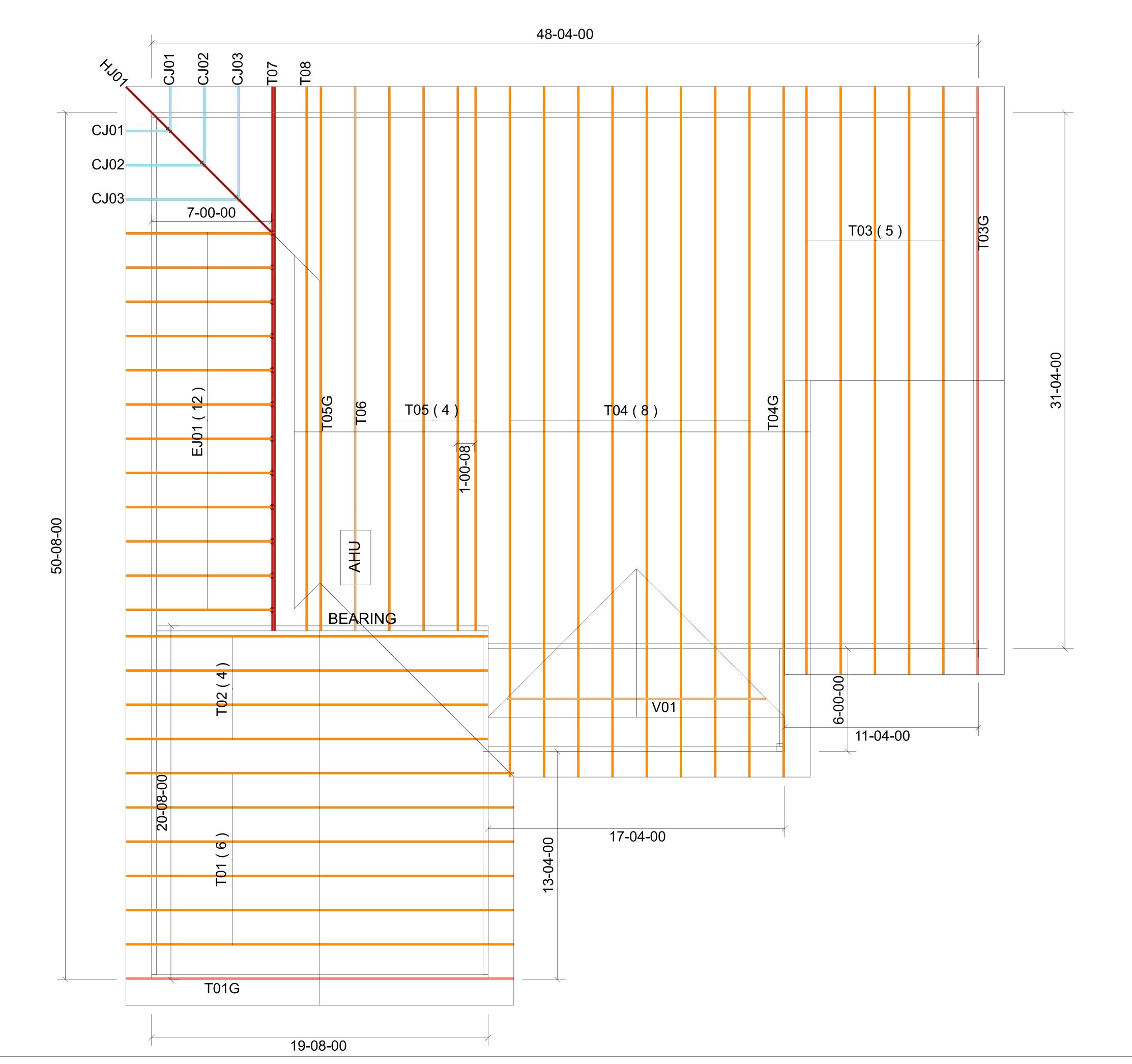
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

œ

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

9

- 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.



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

### **IMPORTANT**

This Drawing Must Be Approved And Returned Before Fabrication Will Begin. For Your Protection Check All **Dimensions And Conditions Prior To** Approval Of Plan. SIGNATURE BELOW INDICATES ALL

NOTES AND DIMENSIONS HAVE BEEN ACCEPTED.

\_\_Date\_\_\_

FINAL LAYOUT FOR PRODUCTION

Requested Delivery Date:

5 PSF TCDL + 5 PSF BCDL USED TO RESIST UPLIFT ENCLOSED EXPOSURE CATEGORY B

ROOF PITCH: 6/12

WIND IMPORTANCE FACTOR 1.00

WIND LOAD 130 mph

CEILING PITCH: Flat

TOP CHORD SIZE: 2 X 4

BOTTOM CHORD SIZE: 2 X 4

OVERHANG LENGTH: 18"

END CUT: PLUMB

CANTILEVER: N/A

TRUSS SPACING: 24"

**BUILDING CODE: FBC2023** 

BEARING HEIGHT SCHEDULE

BUILDER:

Ron David Plastering

1496 **GABLE** 

ADDRESS:

LOT / BLOCK **ROSE POINTE** SUBDIVISION:

CITY: DRAWN BY: Holloway, Kim

DATE: 11/1/2024 SCALE: N.T.S.

**REVISIONS:** 



Summations of limited excerpts of the Code, ANSI/TPI 1-2014, and BCSI, and associated commentary, are provided within the truss submittal package in the Builders FirstSource Component Truss Responsibility and Liability Disclosure. These critical excerpts include, among other elements, critical safety information as well as specific Scope-of-Work assignments (and limitations of the same) for the Owner, Contractor, Building Designer, and Truss Manufacturer. It is essential that ALL parties to the design and use of the Trusses review and become familiar with the information provided in the Builders FirstSource Component Truss Responsibility and Liability Disclosure, as well as the referenced sources, prior to performing work on the associated project.