MiTek®

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

73

RE: 3927410 - LOT 14 AMELIA LANDING

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

Site Information:
Customer Info: STEVEN WINSBERG Project Name: Sped House Model: 1880
Lot/Block: 14 Subdivision: Amelia Landing
Address: TBD SW Beacon Way, N/A
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 45 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.

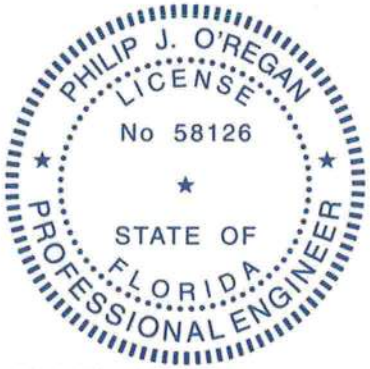
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T33361652	CJ01	3/27/24	15	T33361666	PB01	3/27/24
2	T33361653	CJ02	3/27/24	16	T33361667	PB02	3/27/24
3	T33361654	CJ03	3/27/24	17	T33361668	T01	3/27/24
4	T33361655	CJ03A	3/27/24	18	T33361669	T01G	3/27/24
5	T33361656	CJ04	3/27/24	19	T33361670	T02	3/27/24
6	T33361657	CJ05	3/27/24	20	T33361671	T03	3/27/24
7	T33361658	CJ05A	3/27/24	21	T33361672	T04	3/27/24
8	T33361659	EJ01	3/27/24	22	T33361673	T05	3/27/24
9	T33361660	EJ02	3/27/24	23	T33361674	T06	3/27/24
10	T33361661	EJ03	3/27/24	24	T33361675	T07	3/27/24
11	T33361662	EJ04	3/27/24	25	T33361676	T08	3/27/24
12	T33361663	HJ08	3/27/24	26	T33361677	T09	3/27/24
13	T33361664	HJ08A	3/27/24	27	T33361678	T10	3/27/24
14	T33361665	HJ10	3/27/24	28	T33361679	T12	3/27/24

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

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:

March 27,2024

MiTek®

RE: 3927410 - LOT 14 AMELIA LANDING

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

Site Information:

Customer Info: STEVEN WINSBERG Project Name: Sped House Model: 1880
Lot/Block: 14 Subdivision: Amelia Landing
Address: TBD SW Beacon Way, N/A
City: Columbia Cty State: FL

No.	Seal#	Truss Name	Date
29	T33361680	T13	3/27/24
30	T33361681	T14	3/27/24
31	T33361682	T15	3/27/24
32	T33361683	T16	3/27/24
33	T33361684	T17	3/27/24
34	T33361685	T18	3/27/24
35	T33361686	T19	3/27/24
36	T33361687	T20	3/27/24
37	T33361688	T21	3/27/24
38	T33361689	T22	3/27/24
39	T33361690	T23	3/27/24
40	T33361691	T24	3/27/24
41	T33361692	T25	3/27/24
42	T33361693	T26	3/27/24
43	T33361694	T27	3/27/24
44	T33361695	T28	3/27/24
45	T33361696	T28G	3/27/24

Job	Truss	Truss Type	Qty	Ply	LOT 14 AMELIA LANDING	T33361652
3927410	CJ01	Jack-Open	6	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 26 13:18:53 2024 Page 1
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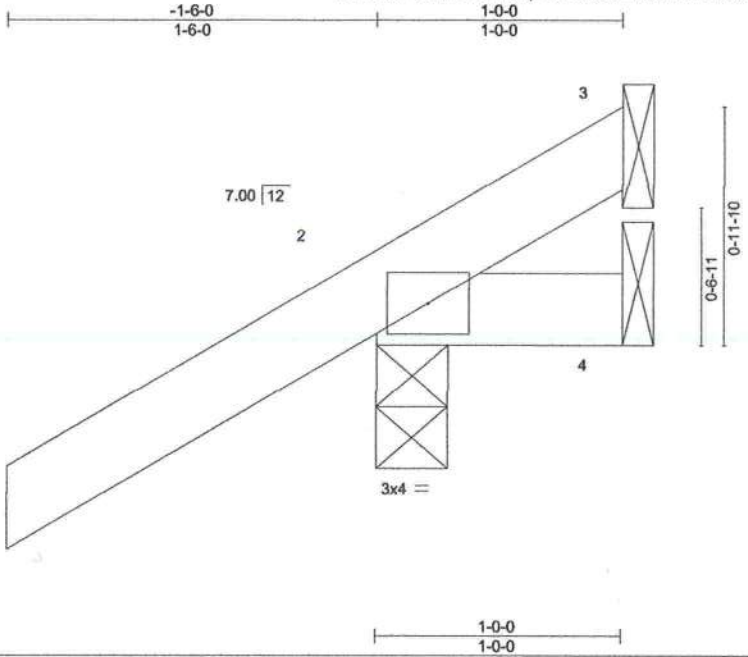

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.18	Vert(LL)	0.00	7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	0.00	7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MP							Weight: 6 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=51(LC 12)
Max Uplift 3=-6(LC 1), 2=-80(LC 12), 4=-19(LC 1)
Max Grav 3=8(LC 16), 2=179(LC 1), 4=22(LC 16)

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 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.

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.

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

March 27,2024

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

Job	Truss	Truss Type	Qty	Ply	LOT 14 AMELIA LANDING
3927410	CJ02	Jack-Open	1	1	T33361653 Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 26 13:18:54 2024 Page 1
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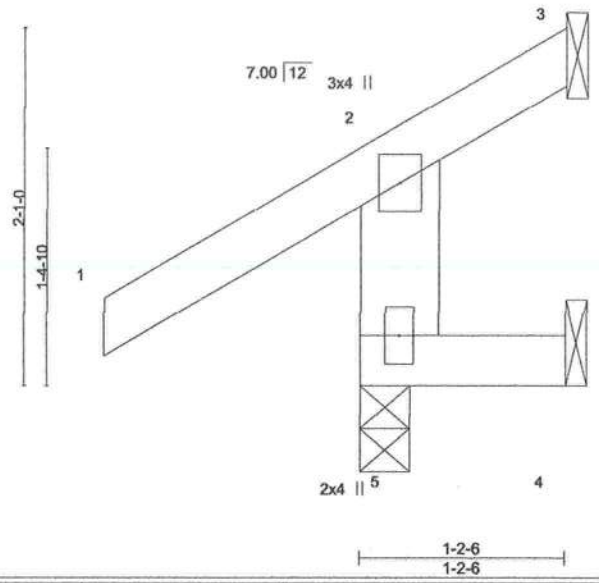

1-2-6 1-2-6

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.25	Vert(LL)	0.00	5	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	0.00	5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MR							Weight: 9 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-2-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=53(LC 9)
Max Uplift 5=-45(LC 12), 3=-28(LC 1), 4=-21(LC 1)
Max Grav 5=213(LC 1), 3=10(LC 8), 4=18(LC 10)

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 zone; end vertical left 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) 5, 3, 4.

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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 27,2024

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	LOT 14 AMELIA LANDING	T33361654
3927410	CJ03	Jack-Open	6	1	Job Reference (optional)	

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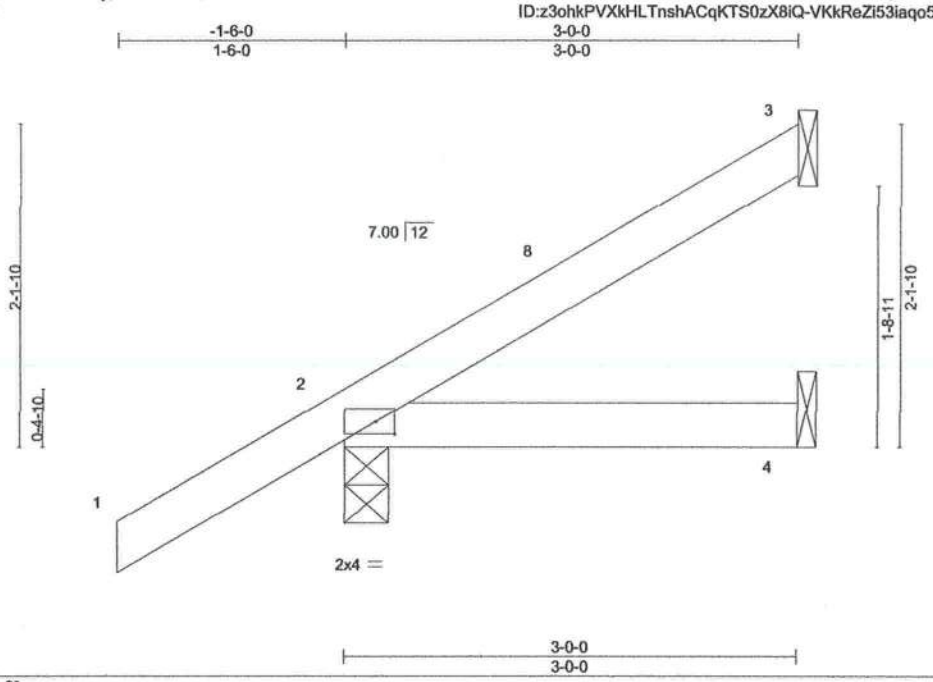

Plate Offsets (X,Y)-- [2:0-1-8,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.18	Vert(LL)	-0.00	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	-0.01	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MP							Weight: 12 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=95(LC 12)
Max Uplift 3=-45(LC 12), 2=-65(LC 12)
Max Grav 3=65(LC 19), 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.

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MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

March 27,2024

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	LOT 14 AMELIA LANDING	T33361655
3927410	CJ03A	Jack-Open	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 26 13:18:54 2024 Page 1
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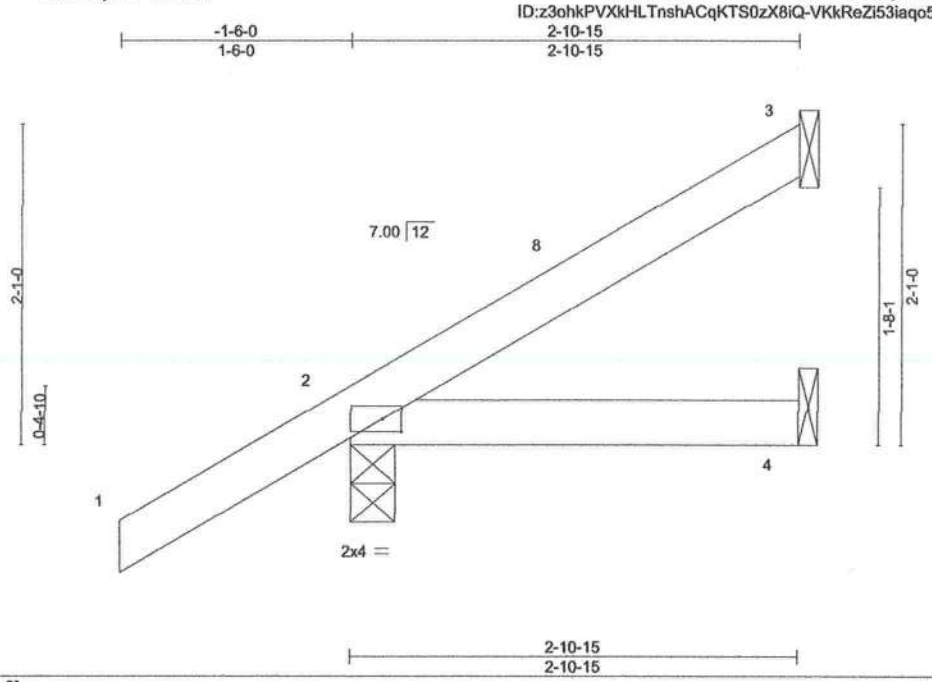

Plate Offsets (X,Y)-- [2:0-1-8,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.18	Vert(LL)	-0.00	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	-0.01	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MP							Weight: 12 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=93(LC 12)
Max Uplift 3=-43(LC 12), 2=-65(LC 12)
Max Grav 3=63(LC 19), 2=208(LC 1), 4=49(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 2-10-3 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.

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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 27,2024

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Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	LOT 14 AMELIA LANDING	T33361656
3927410	CJ04	Jack-Open	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 26 13:18:55 2024 Page 1
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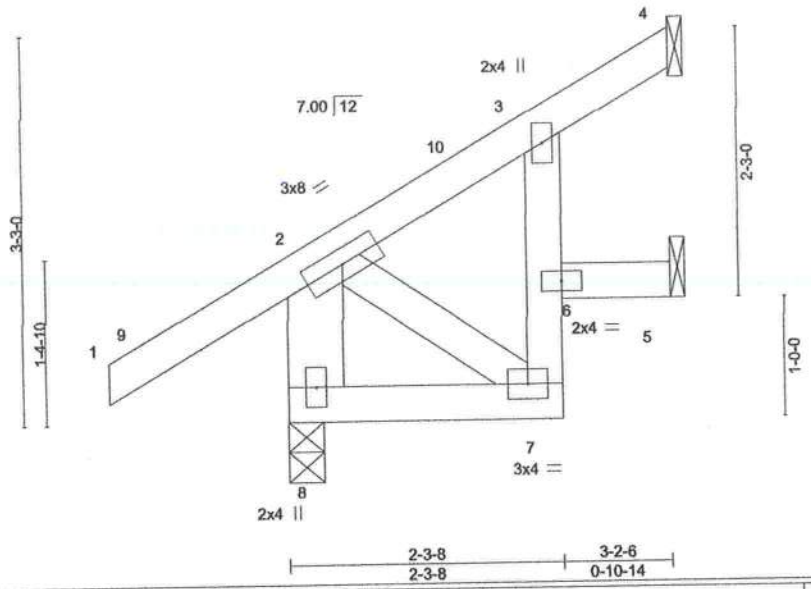

2-3-8 / 2-3-8 | 3-2-6 / 0-10-14

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.25	Vert(LL)	0.01	7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	-0.01	7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	-0.01	4	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 21 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
3-7: 2x4 SP No.3
WEBS 2x6 SP No.2 *Except*
2-7: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-2-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-3-8, 4=Mechanical, 5=Mechanical
Max Horz 8=83(LC 12)
Max Uplift 8=-40(LC 12), 4=-76(LC 12)
Max Grav 8=229(LC 1), 4=91(LC 19), 5=20(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 3-1-10 zone; end vertical left 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) 8, 4.

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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 27,2024

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

Job	Truss	Truss Type	Qty	Ply	LOT 14 AMELIA LANDING	T33361657
3927410	CJ05	Jack-Open	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 26 13:18:55 2024 Page 1
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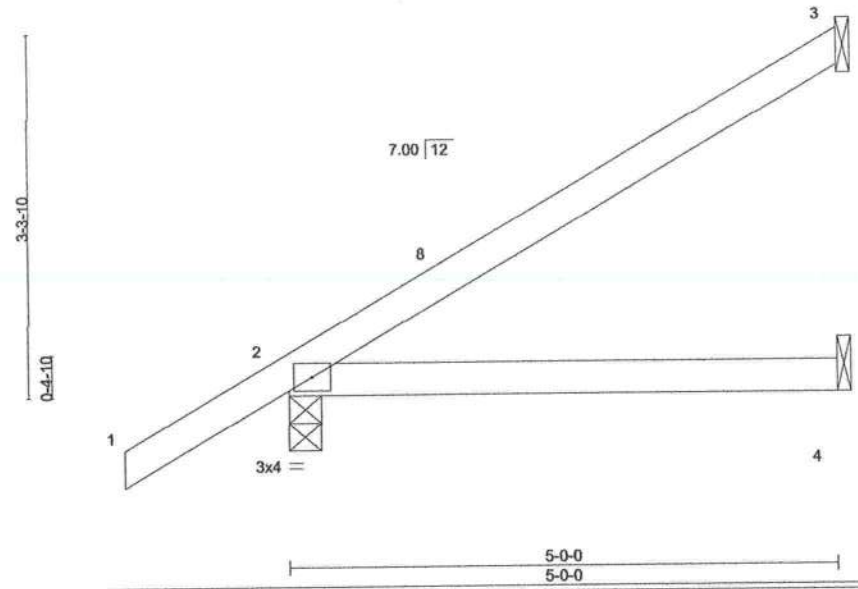

5-0-0
5-0-0

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.28	Vert(LL)	0.03	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.24	Vert(CT)	-0.05	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MP							Weight: 19 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=140(LC 12)
Max Uplift 3=-84(LC 12), 2=-71(LC 12), 4=-2(LC 12)
Max Grav 3=121(LC 19), 2=276(LC 1), 4=89(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 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, 4.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

March 27,2024

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314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	LOT 14 AMELIA LANDING	T33361658
3927410	CJ05A	Jack-Open	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 26 13:18:56 2024 Page 1
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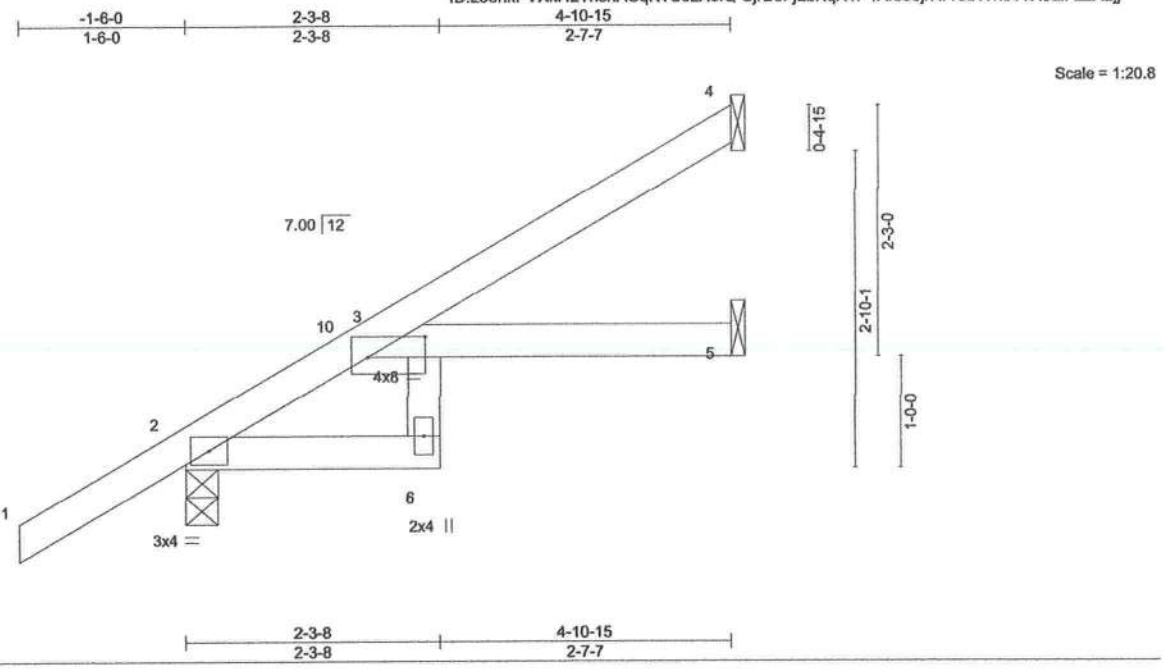

Plate Offsets (X,Y)-- [3:0-6-4,0-2-3]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.35	Vert(LL)	0.06	6	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.27	Vert(CT)	-0.07	6	>797	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.04	5	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MR							Weight: 21 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
3-6: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-10-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=138(LC 12)
Max Uplift 4=-68(LC 12), 2=-69(LC 12), 5=-16(LC 12)
Max Grav 4=108(LC 19), 2=276(LC 1), 5=83(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 4-10-3 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) 4, 2, 5.

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March 27,2024

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Job	Truss	Truss Type	Qty	Ply	LOT 14 AMELIA LANDING	T33361659
3927410	EJ01	Jack-Partial	13	1	Job Reference (optional)	

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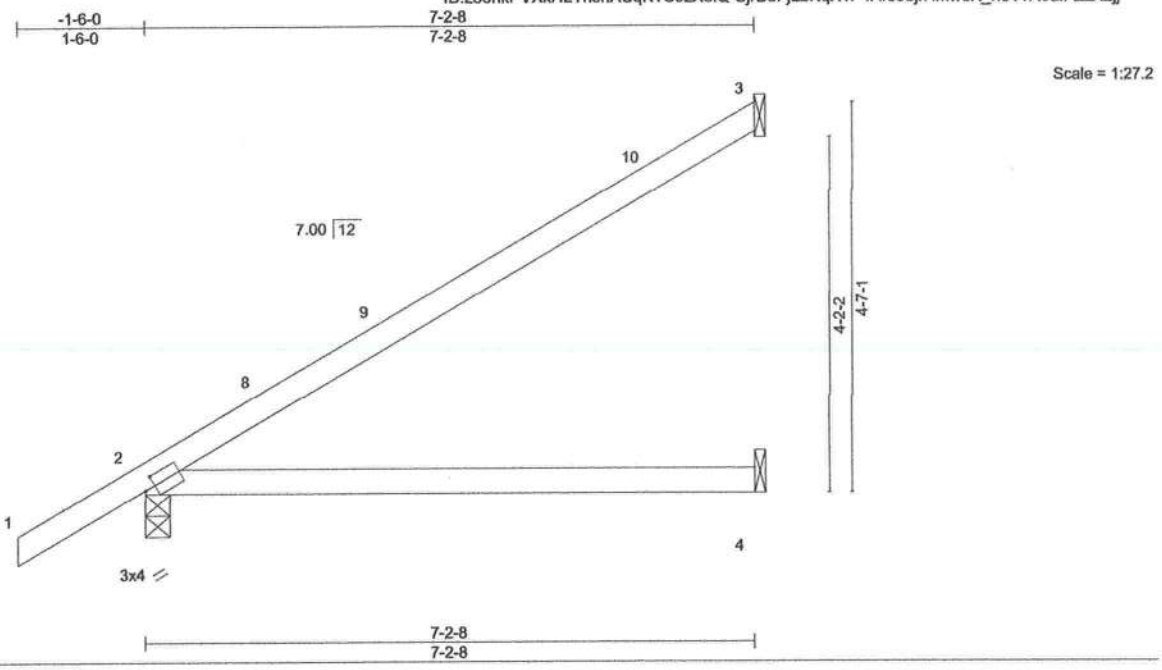

Plate Offsets (X,Y)-- [2:0-1-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.68	Vert(LL)	0.14	4-7	>633	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.56	Vert(CT)	-0.25	4-7	>346	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 26 lb	FT = 20%

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

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=182(LC 12)
Max Uplift 3=-110(LC 12), 2=-84(LC 12), 4=-3(LC 12)
Max Grav 3=181(LC 19), 2=354(LC 1), 4=130(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 7-1-12 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, 4 except (jt=lb) 3=110.

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March 27,2024

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Job	Truss	Truss Type	Qty	Ply	LOT 14 AMELIA LANDING	T33361660
3927410	EJ02	Jack-Partial	8	1	Job Reference (optional)	

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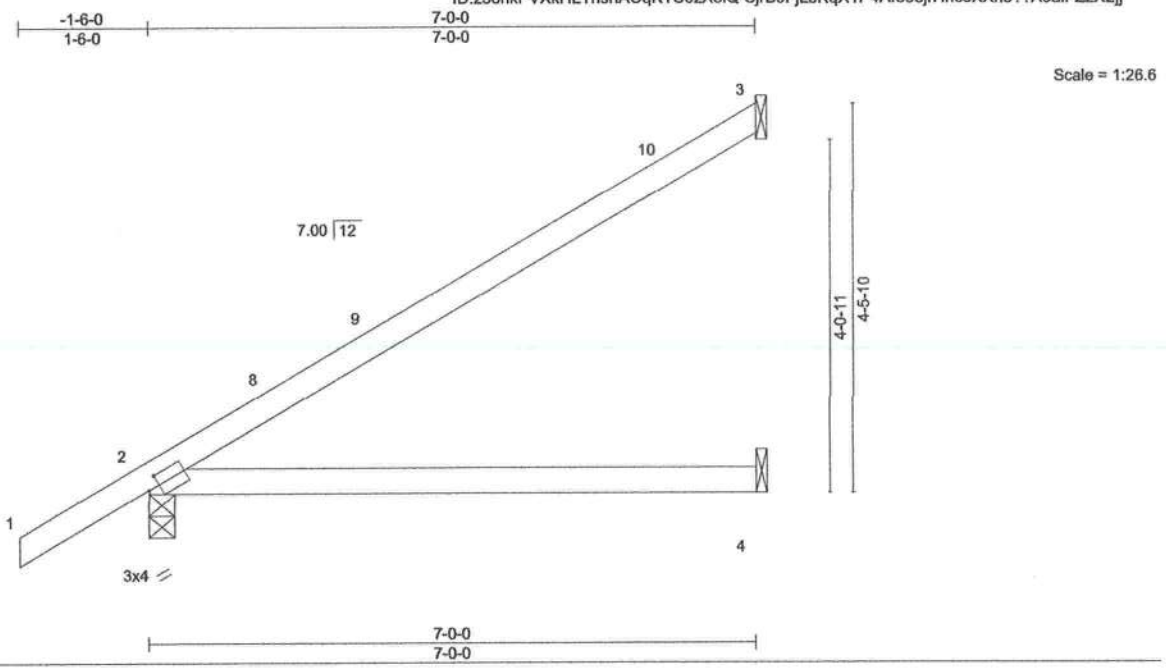

Plate Offsets (X,Y)-- [2:0-1-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.63	Vert(LL)	0.12	4-7	>691	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.52	Vert(CT)	-0.22	4-7	>379	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 25 lb	FT = 20%

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

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=179(LC 12)
Max Uplift 3=-109(LC 12), 2=-82(LC 12), 4=-3(LC 12)
Max Grav 3=175(LC 19), 2=346(LC 1), 4=126(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, 4 except (jt=lb) 3=109.

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Job	Truss	Truss Type	Qty	Ply	LOT 14 AMELIA LANDING	T33361661
3927410	EJ03	Jack-Partial	6	1	Job Reference (optional)	

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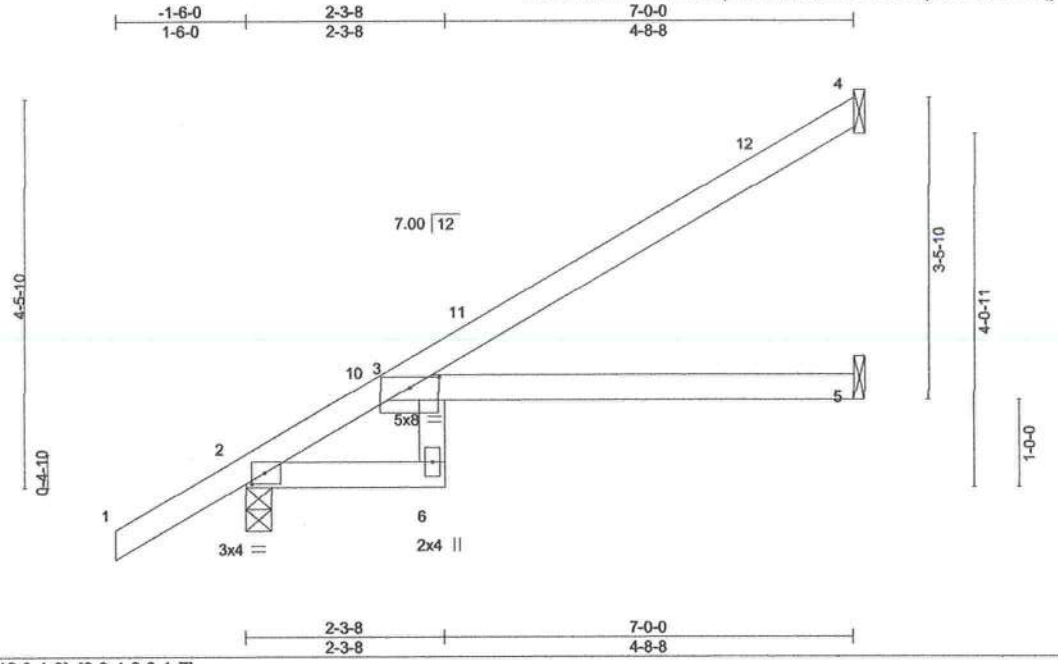

Plate Offsets (X,Y)-- [2:0-1-12,0-1-8], [3:0-4-0,0-1-7]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.62	Vert(LL)	0.18	3-5	>471	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.58	Vert(CT)	-0.26	3-5	>314	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.14	5	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MR							Weight: 27 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
3-6: 2x4 SP No.3

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

REACTIONS. (size) 4=Mechanical, 2=0-3-8, 5=Mechanical
Max Horz 2=179(LC 12)
Max Uplift 4=-94(LC 12), 2=-81(LC 12), 5=-17(LC 12)
Max Grav 4=164(LC 19), 2=350(LC 1), 5=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) 4, 2, 5.

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March 27,2024

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Job	Truss	Truss Type	Qty	Ply	LOT 14 AMELIA LANDING	T33361662
3927410	EJ04	Jack-Partial	3	1	Job Reference (optional)	

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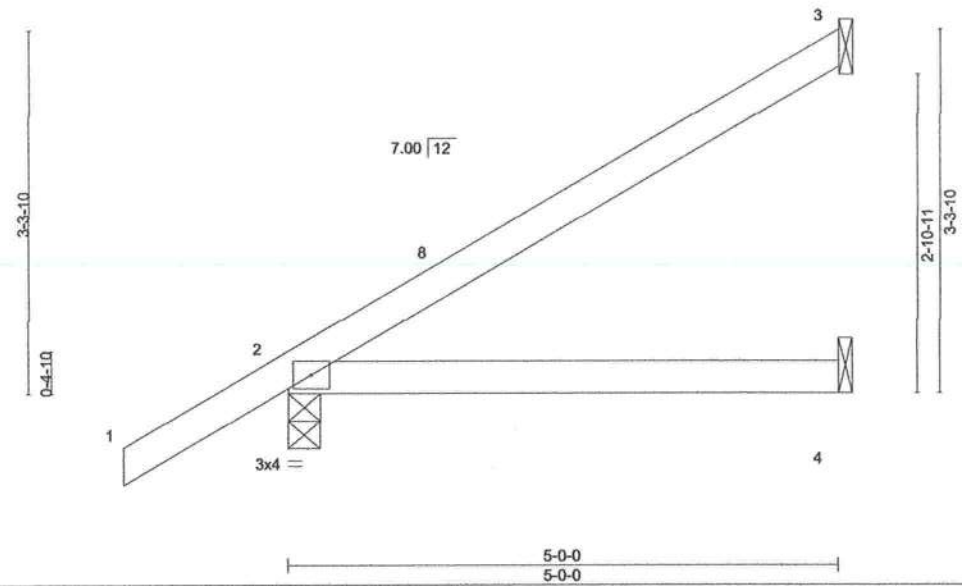

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.28	Vert(LL)	0.03	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.24	Vert(CT)	-0.05	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MP							Weight: 19 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=140(LC 12)
Max Uplift 3=-84(LC 12), 2=-71(LC 12), 4=-2(LC 12)
Max Grav 3=121(LC 19), 2=276(LC 1), 4=89(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 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, 4.

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March 27,2024

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Job	Truss	Truss Type	Qty	Ply	LOT 14 AMELIA LANDING	T33361663
3927410	HJ08	Diagonal Hip Girder	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 26 13:18:58 2024 Page 1
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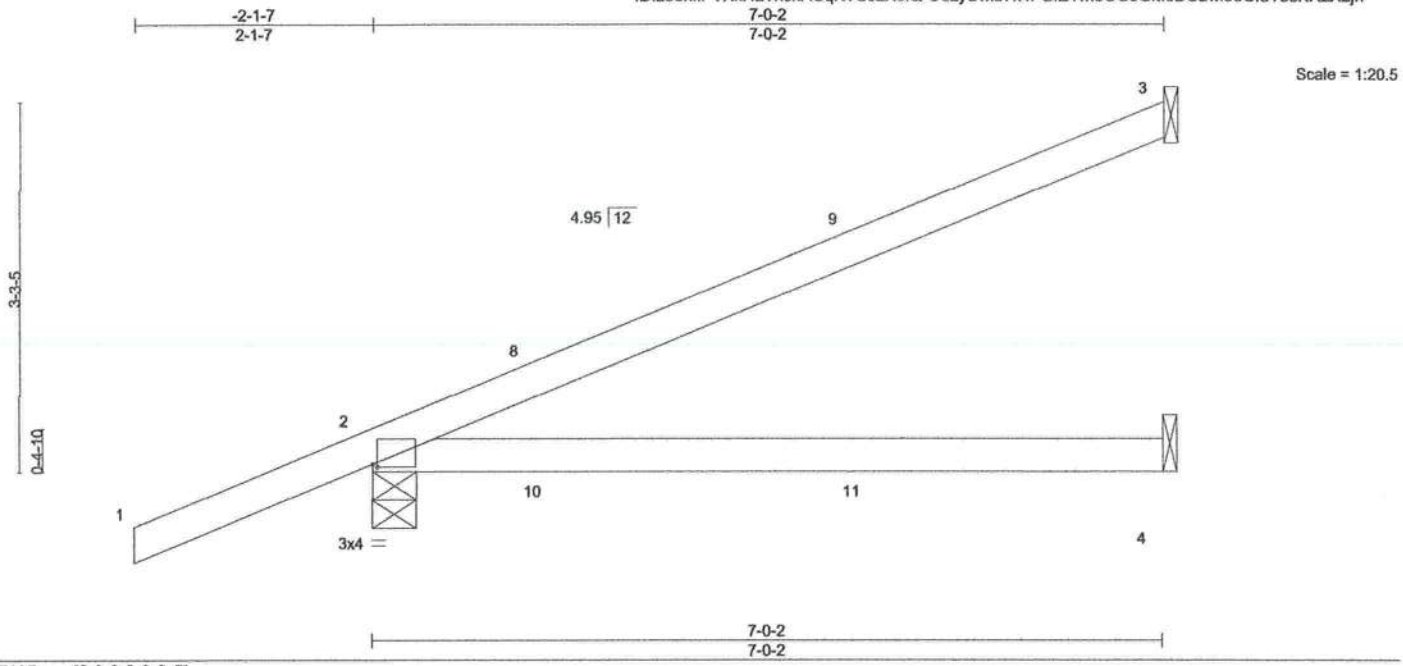

Plate Offsets (X,Y)-- [2:0-0-8,0-0-5]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.69	Vert(LL)	-0.10	4-7	>820	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.56	Vert(CT)	-0.22	4-7	>387	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.01	2	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 25 lb	FT = 20%

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

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

REACTIONS. (size) 3=Mechanical, 2=0-4-9, 4=Mechanical
Max Horz 2=140(LC 8)
Max Uplift 3=-108(LC 8), 2=-168(LC 4), 4=-4(LC 8)
Max Grav 3=160(LC 1), 2=391(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=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 except (jt=lb) 3=108, 2=168.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 68 lb down and 74 lb up at 1-6-1, 68 lb down and 74 lb up at 1-6-1, and 87 lb down and 51 lb up at 4-4-0, and 87 lb down and 51 lb up at 4-4-0 on top chord, and 21 lb down and 45 lb up at 1-6-1, 21 lb down and 45 lb up at 1-6-1, and 25 lb down at 4-4-0, and 25 lb down at 4-4-0 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).

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: 11=-5(F=-3, B=-3)

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Philip J. O'Regan PE No.58126
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Date:

March 27,2024

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Job	Truss	Truss Type	Qty	Ply	LOT 14 AMELIA LANDING	T33361664
3927410	HJ08A	Diagonal Hip Girder	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 26 13:18:58 2024 Page 1
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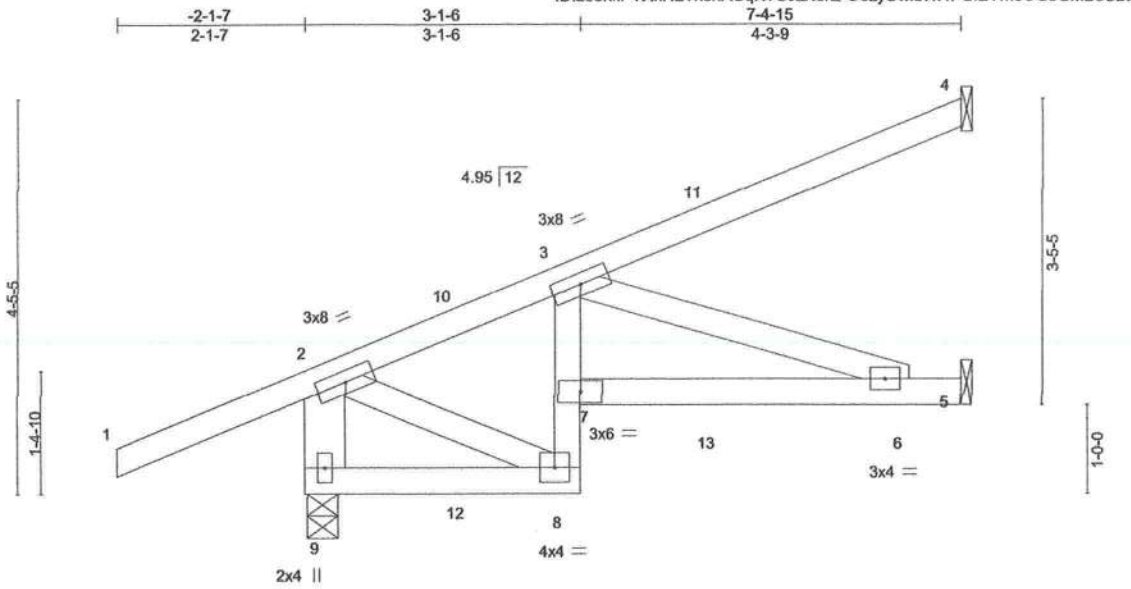

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.38	Vert(LL)	0.05	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.68	Vert(CT)	-0.08	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.17	Horz(CT)	0.03	5	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 41 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
3-8: 2x4 SP No.3
WEBS 2x4 SP No.3 *Except*
2-9: 2x6 SP No.2

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

REACTIONS. (size) 9=0-4-3, 4=Mechanical, 5=Mechanical
Max Horz 9=130(LC 8)
Max Uplift 9=-194(LC 4), 4=-81(LC 8), 5=-102(LC 8)
Max Grav 9=422(LC 1), 4=108(LC 1), 5=192(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-9=-410/206, 2-3=-324/130
BOT CHORD 6-7=-350/460
WEBS 2-8=-112/304, 3-6=-486/369

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; end vertical left 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) 4 except (jt=lb) 9=194, 5=102.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 85 lb down and 49 lb up at 1-9-6, 58 lb down and 104 lb up at 1-9-6, and 112 lb down and 77 lb up at 4-7-5, and 115 lb down and 85 lb up at 4-7-5 on top chord, and 24 lb down at 1-9-6, 7 lb down and 52 lb up at 1-9-6, and 52 lb down and 32 lb up at 4-7-5, and 1 lb down at 4-7-5 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).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54, 2-4=-54, 8-9=-20, 5-7=-20
Concentrated Loads (lb)
Vert: 10=26(F) 11=-37(F=-13, B=-24) 12=-2(B) 13=-40(B)

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Date:

March 27,2024

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Job	Truss	Truss Type	Qty	Ply	LOT 14 AMELIA LANDING	T33361665
3927410	HJ10	Diagonal Hip Girder	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 26 13:18:59 2024 Page 1
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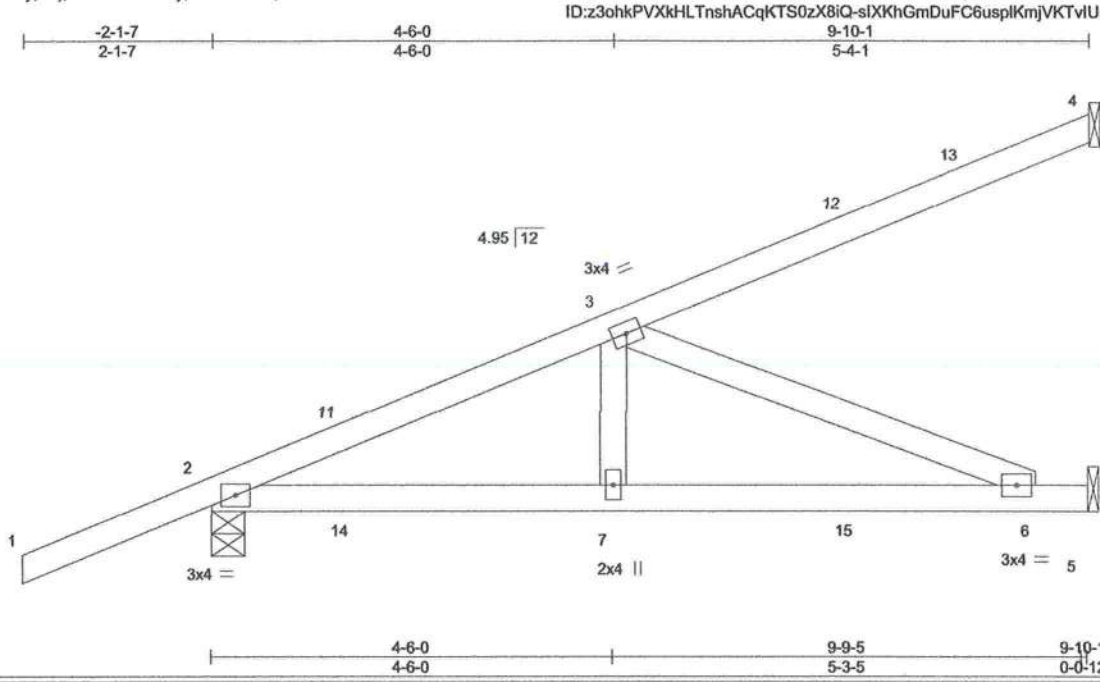

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.59	Vert(LL)	-0.06	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.67	Vert(CT)	-0.14	6-7	>824	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.37	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 44 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-11-9 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-4-9, 5=Mechanical
Max Horz 2=178(LC 8)
Max Uplift 4=-98(LC 8), 2=-222(LC 4), 5=-116(LC 8)
Max Grav 4=150(LC 1), 2=527(LC 1), 5=298(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-746/256
BOT CHORD 2-7=-336/632, 6-7=-336/632
WEBS 3-7=-3/301, 3-6=-683/363

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; 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 except (jt=lb) 2=222, 5=116.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 68 lb down and 74 lb up at 1-6-1, 68 lb down and 74 lb up at 1-6-1, 87 lb down and 51 lb up at 4-4-0, 87 lb down and 51 lb up at 4-4-0, and 117 lb down and 95 lb up at 7-1-15, and 117 lb down and 95 lb up at 7-1-15 on top chord, and 21 lb down and 45 lb up at 1-6-1, 21 lb down and 45 lb up at 1-6-1, 25 lb down at 4-4-0, 25 lb down at 4-4-0, and 47 lb down and 17 lb up at 7-1-15, and 47 lb down and 17 lb up at 7-1-15 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).

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
Concentrated Loads (lb)
Vert: 7=-5(F=-3, B=-3) 12=-73(F=-36, B=-36) 15=-59(F=-29, B=-29)

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Philip J. O'Regan PE No.58126
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

March 27,2024

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Job	Truss	Truss Type	Qty	Ply	LOT 14 AMELIA LANDING	T33361666
3927410	PB01	Piggyback	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 26 13:18:59 2024 Page 1
ID:z3ohkPVXkHLTnshACqKTS0zX8iQ-sIXKhGmDuFC6usplKmjVKTvQWshauWPRs7oQsuzX2jg

2-9-15 | 3-4-1 | 6-2-0
2-9-15 | 0-6-2 | 2-9-15

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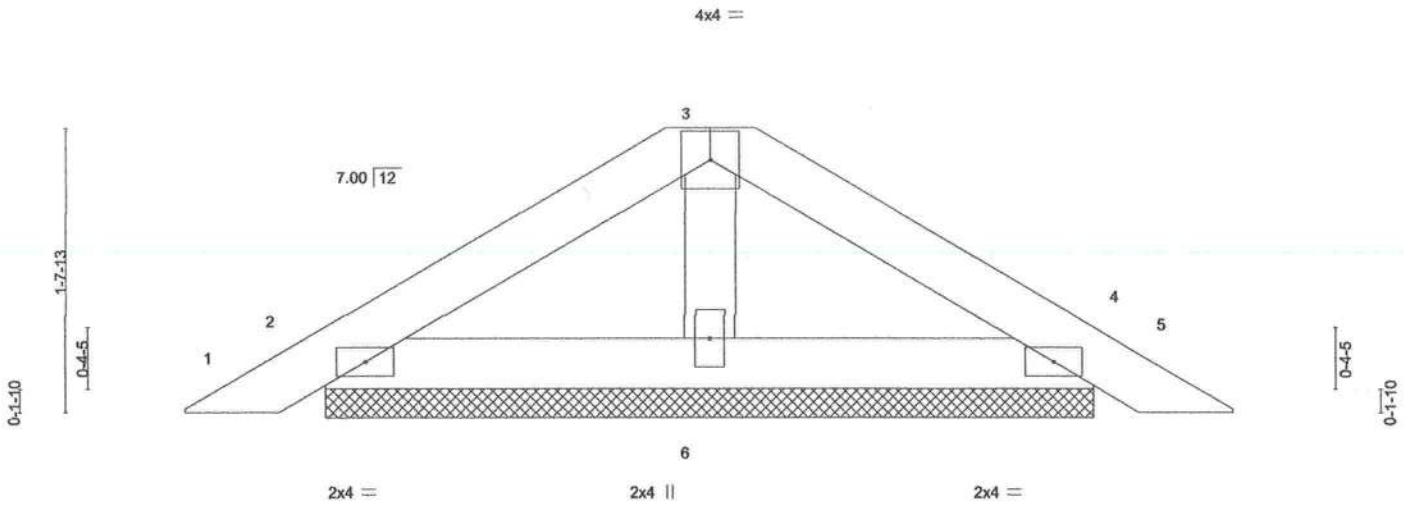

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.08	Vert(LL)	0.00	5	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	0.00	5	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-P							Weight: 18 lb	FT = 20%

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

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

REACTIONS. (size) 2=4-5-11, 4=4-5-11, 6=4-5-11
Max Horz 2=40(LC 11)
Max Uplift 2=-47(LC 12), 4=-52(LC 13), 6=-17(LC 12)
Max Grav 2=118(LC 1), 4=118(LC 1), 6=153(LC 1)

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

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 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) Gable requires continuous bottom chord bearing.
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) 2, 4, 6.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Date:

March 27,2024

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Job	Truss	Truss Type	Qty	Ply	LOT 14 AMELIA LANDING	T33361667
3927410	PB02	Piggyback	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 26 13:19:00 2024 Page 1
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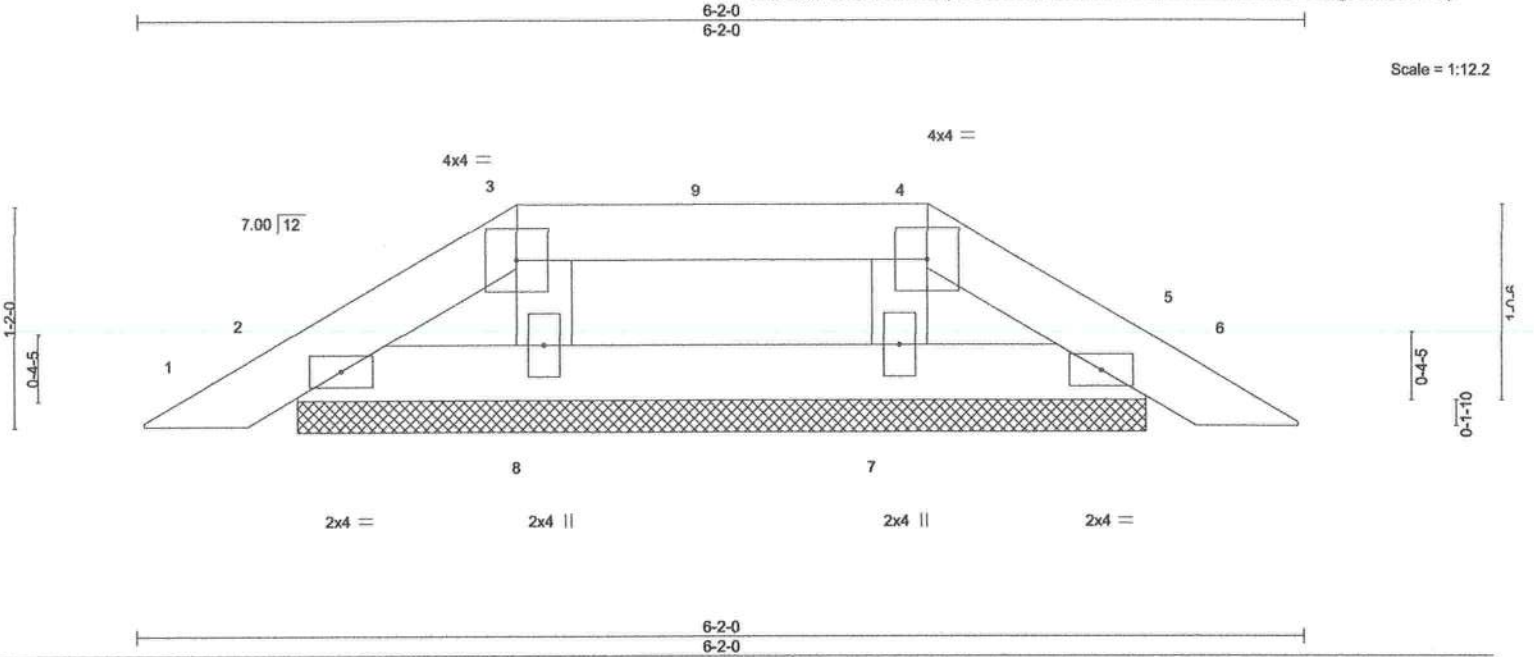

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.07	Vert(LL)	-0.00	5	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.02	Vert(CT)	-0.00	5	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-P							Weight: 18 lb	FT = 20%

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

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

REACTIONS. All bearings 4-5-11.
(lb) - Max Horz 2=25(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 5, 8, 7
Max Grav All reactions 250 lb or less at joint(s) 2, 5, 8, 7

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

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 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) 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) 2, 5, 8, 7.
9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Job	Truss	Truss Type	Qty	Ply	LOT 14 AMELIA LANDING	
3927410	T01	Common	5	1	Job Reference (optional)	T33361668

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 26 13:19:01 2024 Page 1
ID:z3ohkPVXkHLTnshACqKTS0zX8iQ-ohf46ynUQsSq7Ay7RBlzQu_IBf9MMJQkJRHWxmzX2je

-1-6-0	6-1-1	11-0-0	15-10-15	22-0-0	23-6-0
1-6-0	6-1-1	4-10-15	4-10-15	6-1-1	1-6-0

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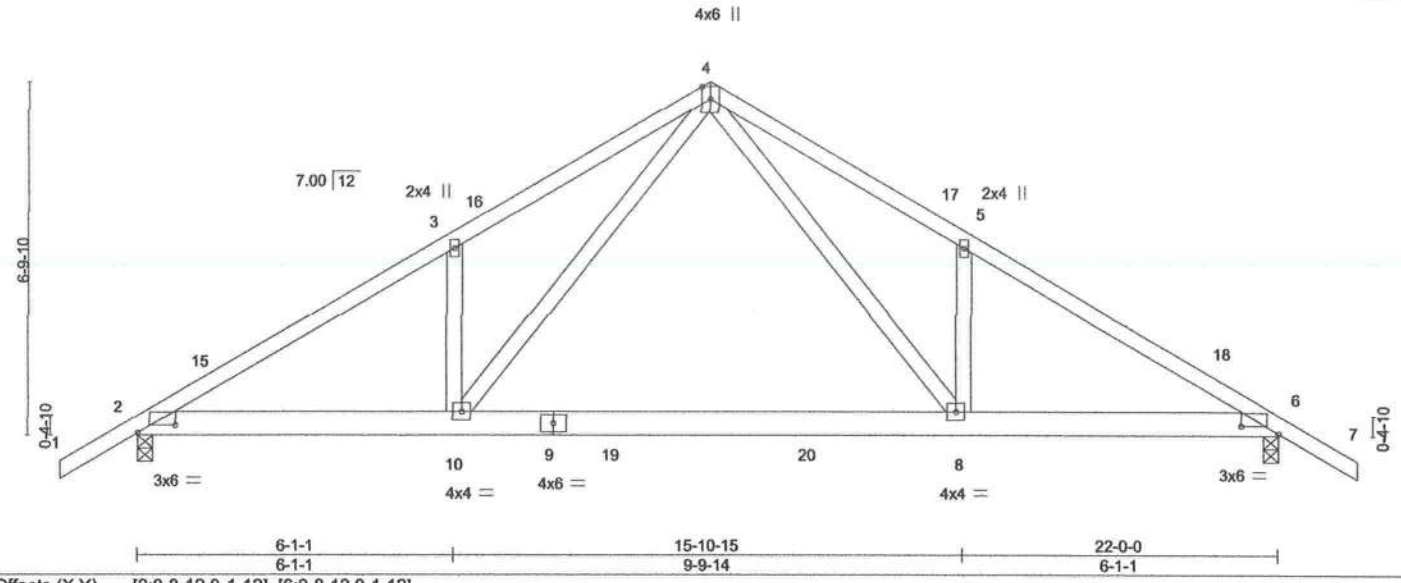

6-1-1	15-10-15	22-0-0
6-1-1	9-9-14	6-1-1

Plate Offsets (X,Y)— [2:0-8-12,0-1-12], [6:0-8-12,0-1-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.32	Vert(LL)	-0.22	8-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.93	Vert(CT)	-0.41	8-10	>641	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.50	Horz(CT)	0.03	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 127 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 6=0-3-8
Max Horz 2=-180(LC 10)
Max Uplift 2=-339(LC 12), 6=-339(LC 13)
Max Grav 2=1317(LC 19), 6=1317(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2215/520, 3-4=-2249/663, 4-5=-2249/663, 5-6=-2214/520
BOT CHORD 2-10=-458/1969, 8-10=-208/1165, 6-8=-347/1845
WEBS 4-8=-411/1320, 5-8=-305/241, 4-10=-411/1320, 3-10=-305/241

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 11-0-0, Zone2 11-0-0 to 15-2-15, Zone1 15-2-15 to 23-6-0 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=339, 6=339.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-7=-54, 2-10=-20, 8-10=-80(F=-60), 6-8=-20

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Date:

March 27,2024

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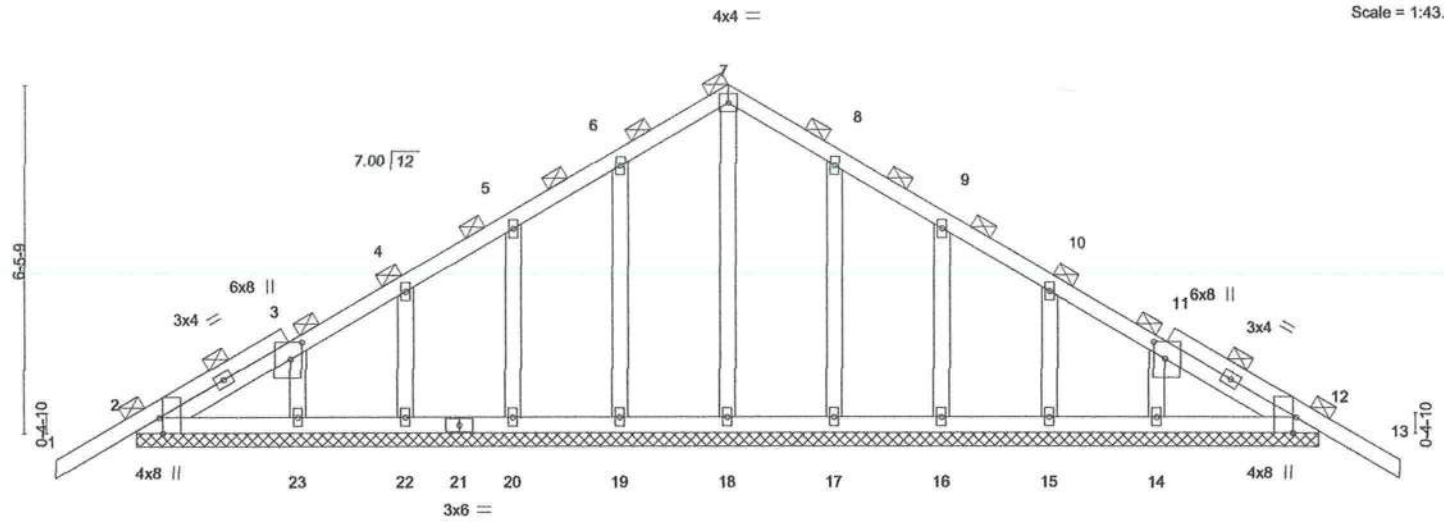
Job	Truss	Truss Type	Qty	Ply	LOT 14 AMELIA LANDING
3927410	T01G	Common Supported Gable	1	1	T33361669
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 26 13:19:01 2024 Page 1
ID:z3ohkPVXkHLTnshACqKTS0zX8iQ-ohf46ynUQsSq7Ay7RBlzQu_l6fNxMPukJRHWxmzX2je

-1-6-0 | 11-0-0 | 22-0-0 | 23-6-0
1-6-0 | 11-0-0 | 11-0-0 | 1-6-0

Scale = 1:43.0



22-0-0
22-0-0

Plate Offsets (X,Y)— [2:0-3-8,Edge], [3:0-3-12,0-2-8], [11:0-3-12,0-2-8], [12:0-3-8,Edge]

LOADING (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)	-0.01	13	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	-0.01	13	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S							Weight: 128 lb	FT = 20%

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

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 22-0-0.
(lb) - Max Horz 2=-172(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 19, 20, 22, 23, 17, 16, 15, 14
Max Grav All reactions 250 lb or less at joint(s) 2, 12, 18, 19, 20, 22, 23, 17, 16, 15, 14

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

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 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, 19, 20, 22, 23, 17, 16, 15, 14.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

March 27,2024

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Job	Truss	Truss Type	Qty	Ply	LOT 14 AMELIA LANDING	
3927410	T02	Common	5	1	Job Reference (optional)	T33361670

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 26 13:19:02 2024 Page 1
ID:z3ohkPVXkHLTnshACqKTS0zX8iQ-GtDSJIo6BAahlKXK?uGCy6Xto3VZ5mWuY514TDzX2jd

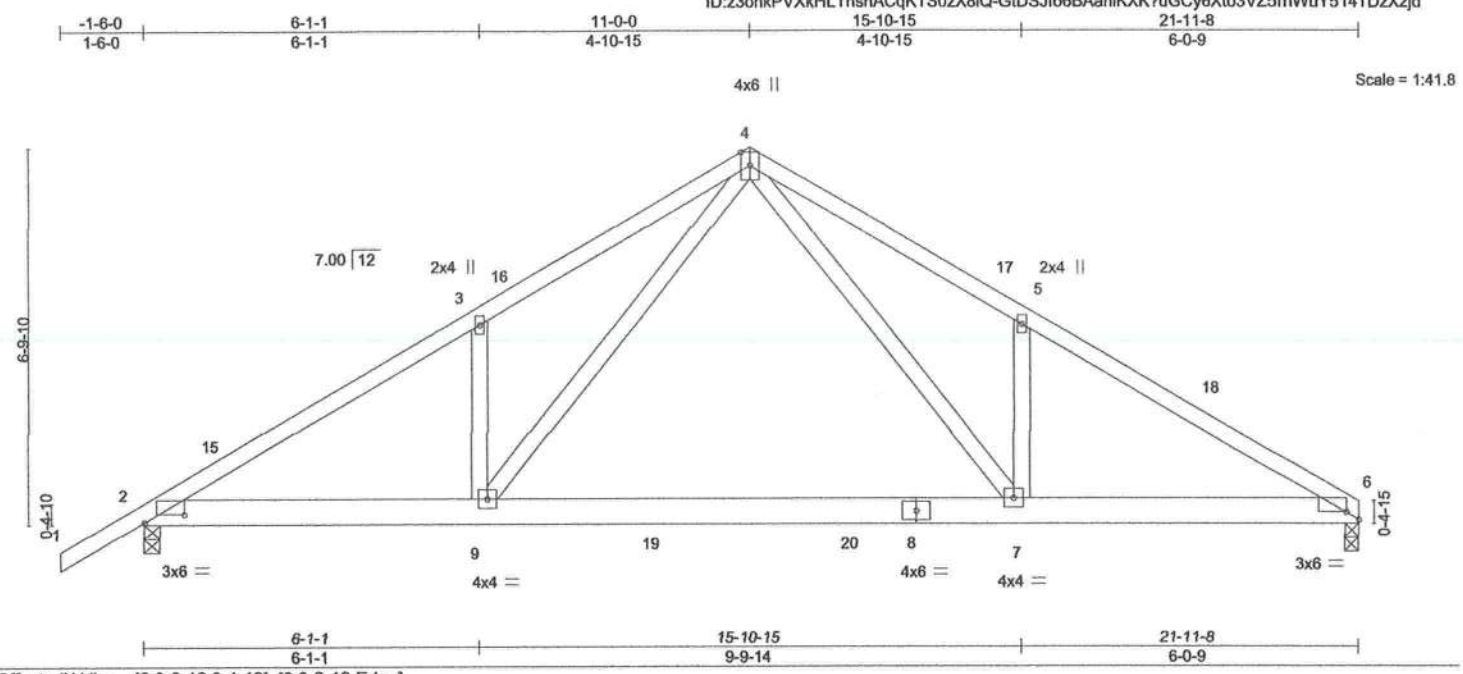

Plate Offsets (X,Y)– [2:0-8-12,0-1-12], [6:0-2-12,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.33	Vert(LL)	-0.21	7-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.93	Vert(CT)	-0.41	7-9	>649	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.51	Horz(CT)	0.03	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 125 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=0-3-0, 2=0-3-8
Max Horz 2=173(LC 9)
Max Uplift 6=-300(LC 13), 2=-340(LC 12)
Max Grav 6=1236(LC 20), 2=1315(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2209/521, 3-4=-2243/663, 4-5=-2248/671, 5-6=-2215/529
BOT CHORD 2-9=-473/1953, 7-9=-223/1151, 6-7=-373/1839
WEBS 4-7=-419/1321, 5-7=-304/241, 4-9=-410/1317, 3-9=-305/241

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 11-0-0, Zone2 11-0-0 to 15-2-15, Zone1 15-2-15 to 21-11-8 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) 6=300, 2=340.
7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-6=-54, 2-9=-20, 7-9=-80(F=-60), 7-10=-20

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Date:

March 27,2024

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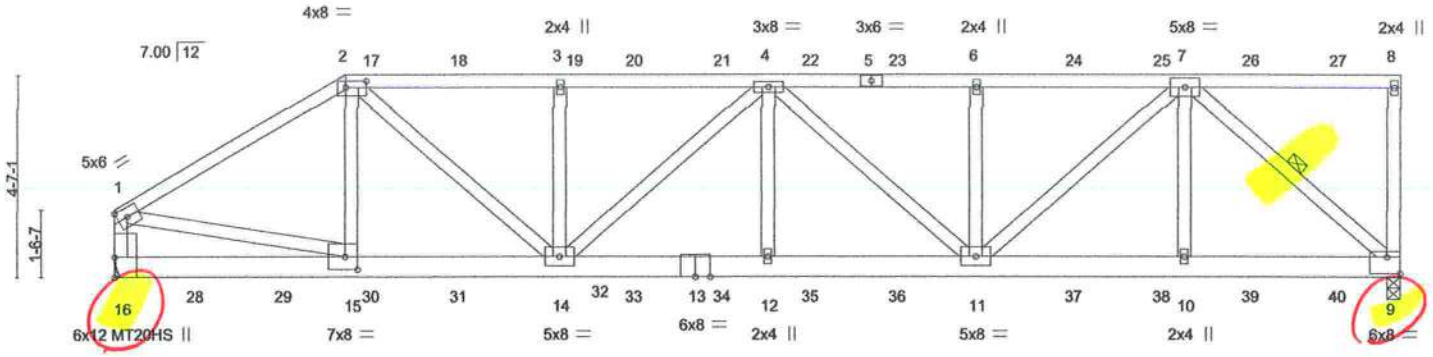
Job	Truss	Truss Type	Qty	Ply	LOT 14 AMELIA LANDING	T33361671
3927410	T03	HALF HIP GIRDER	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 26 13:19:03 2024 Page 1
ID:z3ohkPVXkHLTnshACqKTS0zX8iQ-k3nrXepkyTiYNT6WZcnRVJ4uSTsJq6d1nlmd?fzX2jc

5-2-13	10-1-7	14-10-6	19-7-5	24-4-3	29-2-14
5-2-13	4-10-11	4-8-15	4-8-15	4-8-15	4-10-11

Scale = 1:52.4



5-2-13	10-1-7	14-10-6	19-7-5	24-4-3	29-2-14
5-2-13	4-10-11	4-8-15	4-8-15	4-8-15	4-10-11

Plate Offsets (X,Y)-- [2:0-5-12,0-1-12], [9:Edge,0-4-8], [15:0-3-8,0-3-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.98	Vert(LL)	0.20	12-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.83	Vert(CT)	-0.33	12-14	>999	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.90	Horz(CT)	0.08	9	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 200 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-7-6 oc bracing.
WEBS 1 Row at midpt 7-9

REACTIONS. (size) 9=0-3-8, 16=Mechanical
Max Horz 16=115(LC 8)
Max Uplift 9=-1076(LC 5), 16=-970(LC 8)
Max Grav 9=2508(LC 1), 16=2422(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2982/1196, 2-3=-3798/1581, 3-4=-3798/1581, 4-6=-3686/1531, 6-7=-3686/1531, 8-9=-351/224, 1-16=-2151/878
BOT CHORD 14-15=-1077/2510, 12-14=-1745/4199, 11-12=-1745/4199, 10-11=-969/2332, 9-10=-969/2332
WEBS 2-14=-756/1738, 3-14=-581/374, 4-14=-557/246, 4-12=-7/421, 4-11=-687/330, 6-11=-513/324, 7-11=-751/1811, 7-10=0/438, 7-9=-3082/1278, 1-15=-932/2371

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; 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) All plates are MT20 plates unless otherwise indicated.
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) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=1076, 16=970.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 138 lb down and 113 lb up at 5-9-10, 138 lb down and 113 lb up at 7-9-10, 138 lb down and 113 lb up at 9-9-10, 138 lb down and 113 lb up at 11-9-10, 138 lb down and 113 lb up at 13-9-10, 138 lb down and 113 lb up at 15-9-10, 138 lb down and 110 lb up at 17-9-10, 138 lb down and 113 lb up at 19-9-10, 138 lb down and 113 lb up at 21-9-10, 138 lb down and 113 lb up at 23-9-10, 138 lb down and 113 lb up at 25-9-10, and 138 lb down and 113 lb up at 27-9-10, and 148 lb down and 112 lb up at 29-1-2 on top chord, and 233 lb down and 123 lb up at 1-9-10, 233 lb down and 123 lb up at 3-9-10, 90 lb down and 23 lb up at 5-9-10, 90 lb down and 23 lb up at 7-9-10, 90 lb down and 23 lb up at 9-9-10, 90 lb down and 23 lb up at 11-9-10, 90 lb down and 23 lb up at 13-9-10, 90 lb down and 23 lb up at 15-9-10, 90 lb down and 23 lb up at 17-9-10, 90 lb down and 23 lb up at 19-9-10, 90 lb down and 23 lb up at 21-9-10, 90 lb down and 23 lb up at 23-9-10, and 90 lb down and 23 lb up at 25-9-10, and 90 lb down and 23 lb up at 27-9-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

Continued on page 2

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Date:

March 27,2024

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NOTES-

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

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-54, 2-8=-54, 9-16=-20

Concentrated Loads (lb)

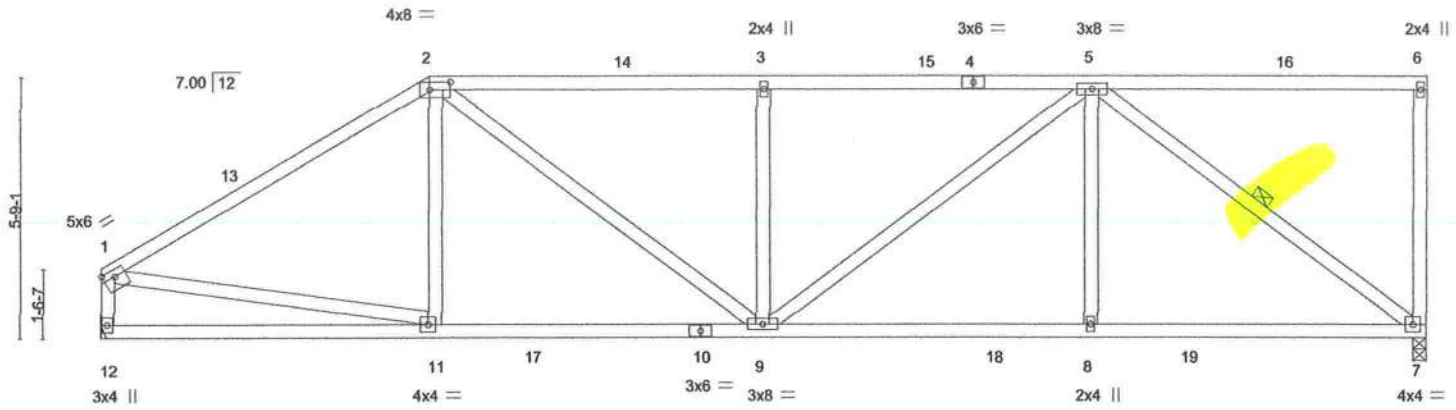
Vert: 8=-139(F) 6=-115(F) 11=-67(F) 17=-115(F) 18=-115(F) 19=-115(F) 20=-115(F) 21=-115(F) 22=-115(F) 23=-115(F) 24=-115(F) 25=-115(F) 26=-115(F) 27=-115(F) 28=-233(F) 29=-233(F) 30=-67(F) 31=-67(F) 32=-67(F) 33=-67(F) 34=-67(F) 35=-67(F) 36=-67(F) 37=-67(F) 38=-67(F) 39=-67(F) 40=-67(F)

Job	Truss	Truss Type	Qty	Ply	LOT 14 AMELIA LANDING
3927410	T04	Half Hip	1	1	T33361672
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 26 13:19:03 2024 Page 1
ID:z3ohkPVXkHLTnshACqKTS0zX8iQ-k3nrXepkyTiYNT6WZcnRVJ4y3Tu0qA61nlmd?fzX2jc

7-2-13	14-7-7	21-10-4	29-2-14
7-2-13	7-4-10	7-2-14	7-4-10

Scale = 1:50.9



7-2-13	14-7-7	21-10-4	29-2-14
7-2-13	7-4-10	7-2-14	7-4-10

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.75	Vert(LL)	-0.11	9-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.66	Vert(CT)	-0.19	9-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.05	7	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 170 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-5-14 oc bracing.
WEBS 1 Row at midpt 5-7

REACTIONS. (size) 7=0-3-8, 12=Mechanical
Max Horz 12=161(LC 12)
Max Uplift 7=-347(LC 9), 12=-297(LC 12)
Max Grav 7=1201(LC 2), 12=1183(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1500/372, 2-3=-1645/476, 3-5=-1645/476, 1-12=-1069/315
BOT CHORD 9-11=-386/1229, 8-9=-364/1280, 7-8=-364/1280
WEBS 2-9=-247/517, 3-9=-407/242, 5-9=-222/457, 5-8=0/395, 5-7=-1575/447, 1-11=-248/1093

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 0-1-12 to 3-1-12, Zone1 3-1-12 to 7-2-13, Zone2 7-2-13 to 11-5-11, Zone1 11-5-11 to 29-1-2 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) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide *will fit between the bottom chord and any other members, with BCDL = 10.0psf.*
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=347, 12=297.

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Date:

March 27,2024

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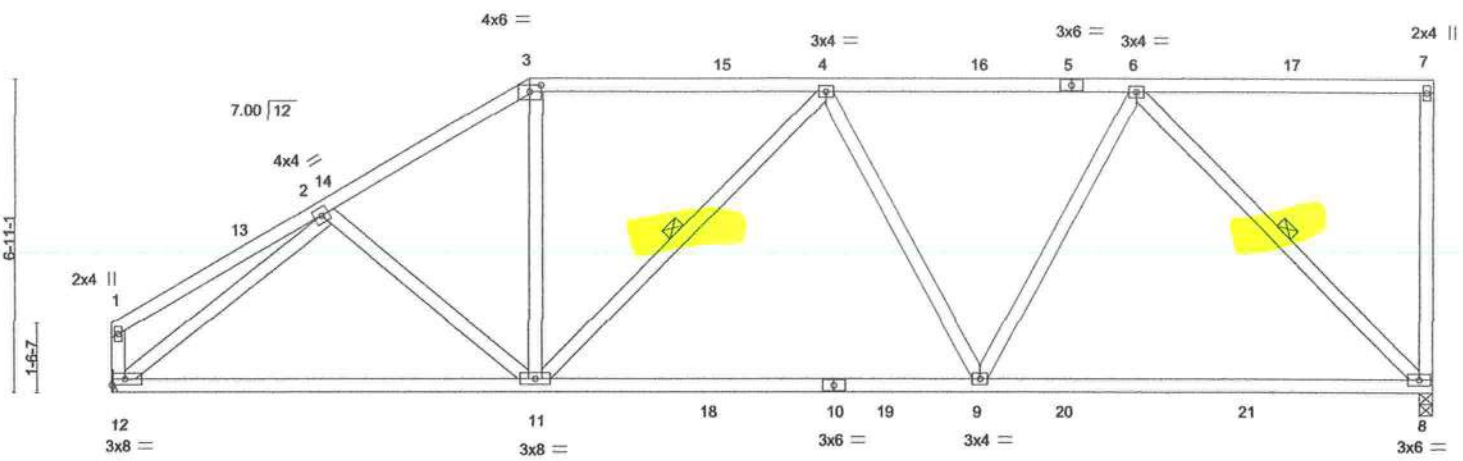
Job	Truss	Truss Type	Qty	Ply	LOT 14 AMELIA LANDING	T33361673
3927410	T05	Half Hip	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 26 13:19:04 2024 Page 1
ID:z3ohkPVXkHLTnshACqKTS0zX8iQ-DFKDk_qMjnqP_dhi7JJg1Xc9RtA9ZZeA?PWAX5zX2jb

4-9-2	9-2-13	15-9-9	22-8-2	29-2-14
4-9-2	4-5-10	6-6-12	6-10-8	6-6-12

Scale = 1:51.1



9-2-13	19-2-13	29-2-14
9-2-13	10-0-0	10-0-1

Plate Offsets (X,Y)-- [3:0-3-0,0-1-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.58	Vert(LL)	-0.32	8-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.92	Vert(CT)	-0.54	8-9	>638	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.05	8	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 175 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
8-10: 2x4 SP No.1
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-10-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 4-11, 6-8

REACTIONS. (size) 8=0-3-8, 12=Mechanical
Max Horz 12=206(LC 12)
Max Uplift 8=-343(LC 9), 12=-294(LC 12)
Max Grav 8=1222(LC 2), 12=1184(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1425/387, 3-4=-1194/375, 4-6=-1255/315
BOT CHORD 11-12=-475/1128, 9-11=-389/1339, 8-9=-279/930
WEBS 3-11=-44/469, 4-9=-270/216, 6-9=-143/704, 6-8=-1303/398, 2-12=-1322/343

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 0-1-12 to 3-1-12, Zone1 3-1-12 to 9-2-13, Zone2 9-2-13 to 13-5-11, Zone1 13-5-11 to 29-1-2 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) Provide adequate drainage to prevent water ponding.
4) *This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.*
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=343, 12=294.

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Date:

March 27,2024

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Job	Truss	Truss Type	Qty	Ply	LOT 14 AMELIA LANDING
3927410	T06	Hip	1	1	T33361674
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 26 13:19:04 2024 Page 1
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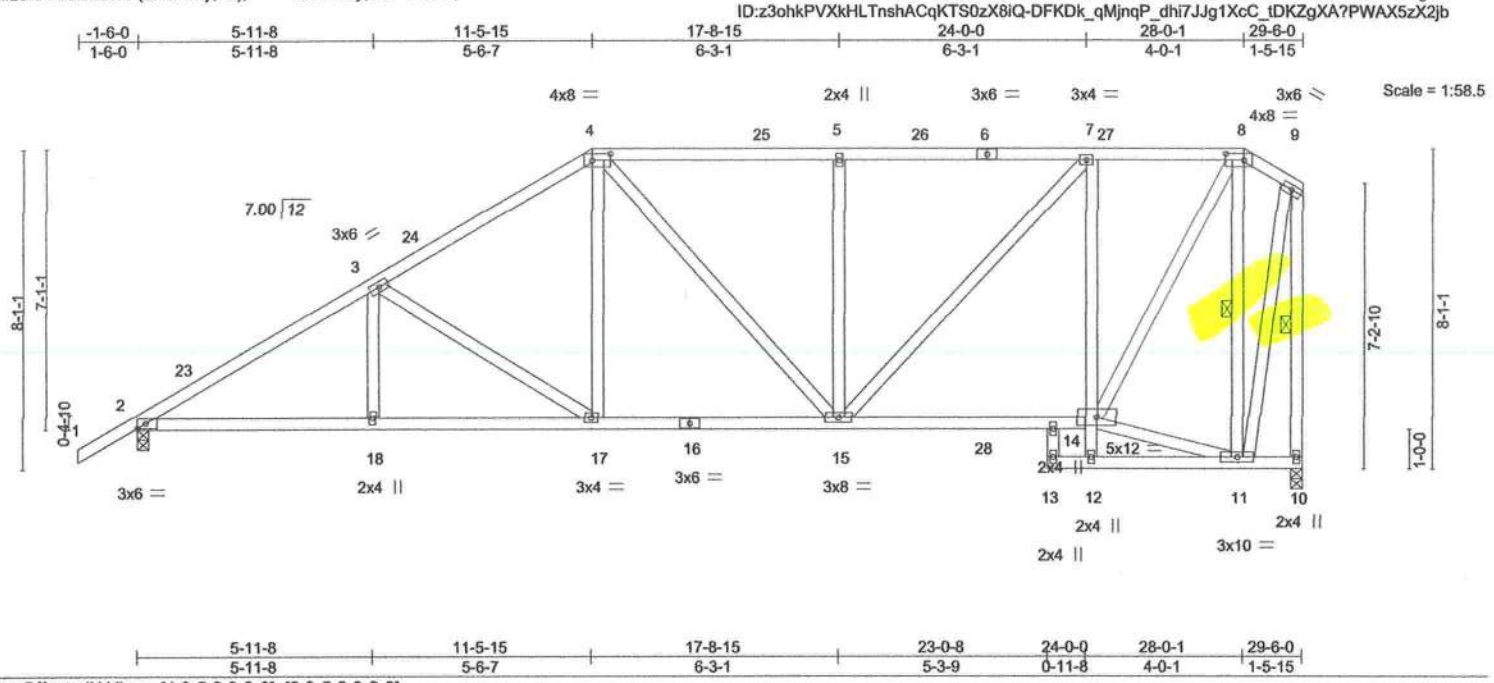

Plate Offsets (X,Y)-- [4:0-5-8,0-2-0], [8:0-5-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.41	Vert(LL)	-0.11	14-15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.72	Vert(CT)	-0.20	14-15	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.07	10	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 215 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
7-12: 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-0-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except: 10-0-0 oc bracing: 12-14
WEBS 1 Row at midpt 8-11, 9-10

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=271(LC 12)
Max Uplift 2=-340(LC 12), 10=-275(LC 9)
Max Grav 2=1267(LC 2), 10=1250(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1987/488, 3-4=-1544/416, 4-5=-1319/365, 5-7=-1319/365, 7-8=-827/206, 8-9=-288/70, 9-10=-1210/268
BOT CHORD 2-18=-586/1669, 17-18=-586/1669, 15-17=-390/1284, 14-15=-211/837, 7-14=-771/303
WEBS 3-17=-565/234, 4-17=-88/528, 5-15=-377/215, 7-15=-255/705, 8-14=-323/1252, 8-11=-1022/282, 9-11=-249/1049

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 11-5-15, Zone2 11-5-15 to 15-8-13, Zone1 15-8-13 to 28-0-1, Zone3 28-0-1 to 29-4-4 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=340, 10=275.

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.

Philip J. O'Regan PE No.58126
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

March 27,2024

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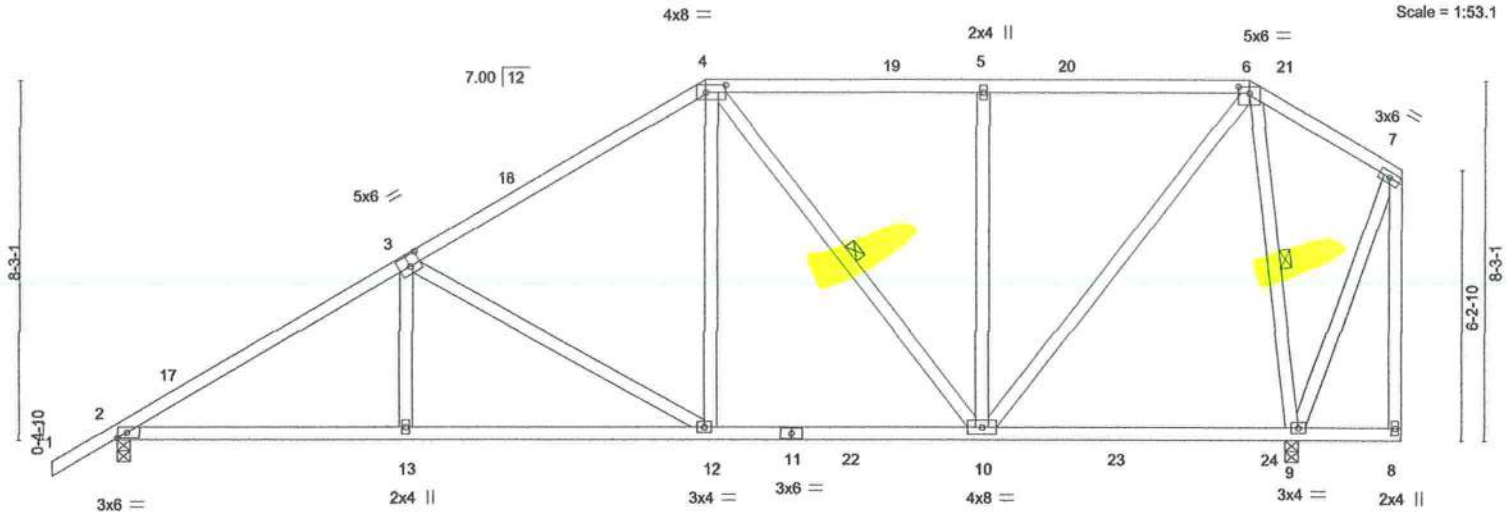
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	LOT 14 AMELIA LANDING	
3927410	T07	Hip	1	1	Job Reference (optional)	T33361675

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 26 13:19:05 2024 Page 1
ID:z3ohkPVXkHLTnshACqKTS0zX8iQ-hSubyKq_U5yGcnGug1qvak9LqHbel1yKE3Fk4XzX2ja

-1-6-0	6-7-12	13-5-15	19-10-12	26-0-1	29-6-0
1-6-0	6-7-12	6-10-3	6-4-13	6-1-6	3-5-15

Scale = 1:53.1



6-7-12	13-5-15	19-10-12	27-2-0	29-6-0
6-7-12	6-10-3	6-4-13	7-3-4	2-4-0

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.47	Vert(LL)	-0.09	9-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.58	Vert(CT)	-0.16	12-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.04	9	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 193 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-2-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 4-10, 6-9

REACTIONS. (size) 2=0-3-8, 9=0-3-8
Max Horz 2=290(LC 12)
Max Uplift 2=-315(LC 12), 9=-275(LC 12)
Max Grav 2=1184(LC 19), 9=1332(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1753/436, 3-4=-1194/337, 4-5=-768/250, 5-6=-768/250
BOT CHORD 2-13=-555/1533, 12-13=-555/1532, 10-12=-307/967
WEBS 3-13=0/287, 3-12=-698/288, 4-12=-101/605, 4-10=-410/160, 5-10=-391/225, 6-10=-295/1043, 6-9=-1042/284

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 13-5-15, Zone2 13-5-15 to 17-8-13, Zone1 17-8-13 to 26-0-1, Zone3 26-0-1 to 29-4-4 zone; cantilever 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) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=315, 9=275.

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Philip J. O'Regan PE No.58126
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

March 27,2024

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Job	Truss	Truss Type	Qty	Ply	LOT 14 AMELIA LANDING
3927410	T08	Hip	1	1	T33361676
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 26 13:19:06 2024 Page 1
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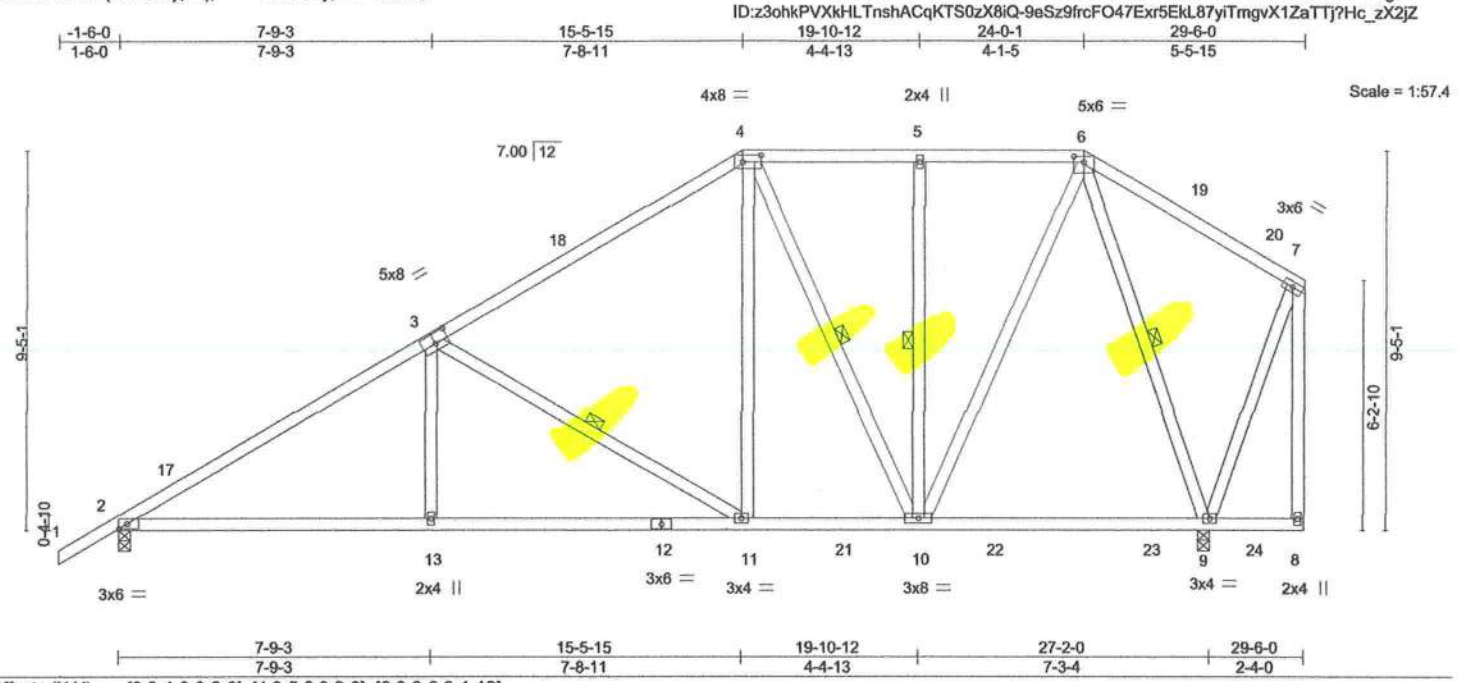

Plate Offsets (X,Y)-- [3:0-4-0,0-3-0], [4:0-5-8,0-2-0], [6:0-3-0,0-1-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.65	Vert(LL)	-0.11	13-16	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.73	Vert(CT)	-0.21	13-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.04	9	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 202 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-11-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-9-8 oc bracing.
WEBS 1 Row at midpt 3-11, 4-10, 5-10, 6-9

REACTIONS. (size) 2=0-3-8, 9=0-3-8
Max Horz 2=310(LC 12)
Max Uplift 2=-309(LC 12), 9=-281(LC 12)
Max Grav 2=1204(LC 19), 9=1329(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1722/411, 3-4=-1037/297, 4-5=-654/241, 5-6=-654/241
BOT CHORD 2-13=-539/1529, 11-13=-540/1527, 10-11=-253/831, 9-10=-75/313
WEBS 3-13=0/343, 3-11=-819/335, 4-11=-129/630, 4-10=-474/186, 6-10=-235/845, 6-9=-1037/285

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 15-5-15, Zone2 15-5-15 to 19-10-12, Zone1 19-10-12 to 24-0-1, Zone2 24-0-1 to 28-3-0, Zone1 28-3-0 to 29-4-4 zone; cantilever 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) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=309, 9=281.

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Philip J. O'Regan PE No.58126
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

March 27,2024

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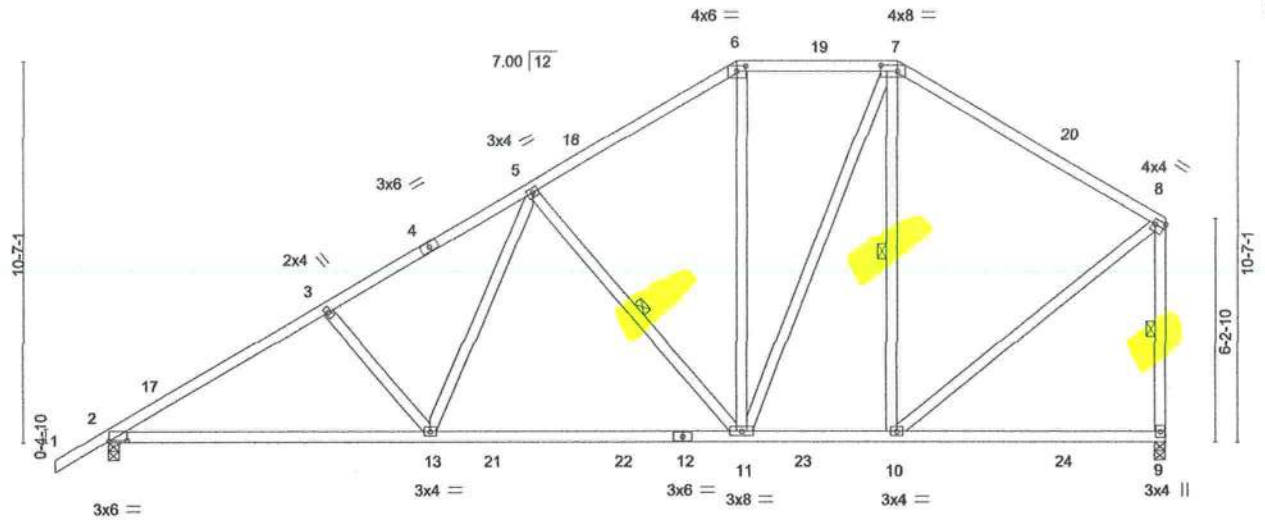
Job	Truss	Truss Type	Qty	Ply	LOT 14 AMELIA LANDING
3927410	T09	Hip	1	1	T33361677
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 26 13:19:06 2024 Page 1
ID:z3ohkPVXkHLTnshACqKTS0zX8iQ-9eSz9frcFO47Exr5EkL87yiRrgsZ1ZHTTj?Hc_zX2jZ

-1-6-0	6-1-5	11-9-10	17-5-15	22-0-1	29-6-0
1-6-0	6-1-5	5-8-5	5-8-5	4-6-2	7-5-15

Scale: 3/16"=1'



8-11-8	17-5-15	22-0-1	29-6-0
8-11-8	8-6-7	4-6-2	7-5-15

Plate Offsets (X,Y)– [2:0-6-0,0-0-3], [6:0-3-0,0-1-12], [7:0-5-8,0-2-0], [8:Edge,0-1-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.78	Vert(LL)	-0.22	11-13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.92	Vert(CT)	-0.37	11-13	>964	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.05	9	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 195 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-4-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 5-11, 7-10, 8-9

REACTIONS. (size) 2=0-3-8, 9=0-3-8
Max Horz 2=329(LC 12)
Max Uplift 2=-324(LC 12), 9=-264(LC 12)
Max Grav 2=1344(LC 19), 9=1247(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1995/459, 3-5=-1833/449, 5-6=-1064/318, 6-7=-863/322, 7-8=-880/247, 8-9=-1092/283
BOT CHORD 2-13=-617/1816, 11-13=-430/1361, 10-11=-151/688
WEBS 3-13=-317/219, 5-13=-128/671, 5-11=-727/316, 6-11=-70/344, 7-11=-195/538, 7-10=-342/155, 8-10=-189/855

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 17-5-15, Zone3 17-5-15 to 22-0-1, Zone2 22-0-1 to 26-3-0, Zone1 26-3-0 to 29-4-4 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=324, 9=264.

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Philip J. O'Regan PE No.58126
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

March 27,2024

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Job	Truss	Truss Type	Qty	Ply	LOT 14 AMELIA LANDING	T33361678
3927410	T10	Piggyback Base	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 26 13:19:07 2024 Page 1
ID:z3ohkPVXkHLTnshACqKTS0zX8iQ-dq0LM?sF?iC_r5QHoSsNf9Eg04D?m0kdhMkr8QzX2jY

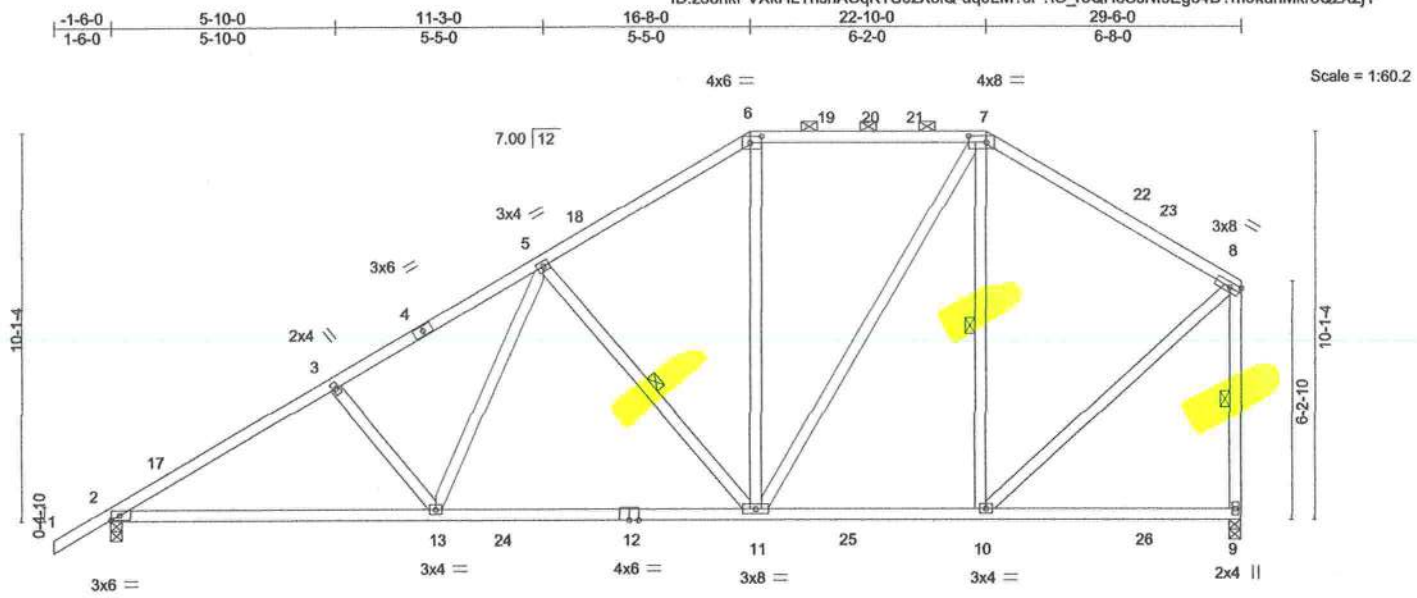

Plate Offsets (X,Y)-- [6:0-3-8,0-2-0], [7:0-5-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.56	Vert(LL)	-0.19	11-13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.85	Vert(CT)	-0.31	11-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.05	9	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 191 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-10-15 oc purlins, except end verticals, and 2-0-0 oc purlins (5-4-13 max.): 6-7.
BOT CHORD Rigid ceiling directly applied or 7-5-7 oc bracing.
WEBS 1 Row at midpt 5-11, 7-10, 8-9

REACTIONS. (size) 2=0-3-8, 9=0-3-8
Max Horz 2=321(LC 12)
Max Uplift 2=-327(LC 12), 9=-261(LC 12)
Max Grav 2=1335(LC 19), 9=1250(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1998/467, 3-5=-1850/462, 5-6=-1132/334, 6-7=-926/334, 7-8=-849/230, 8-9=-1117/278
BOT CHORD 2-13=-619/1811, 11-13=-442/1378, 10-11=-143/668
WEBS 3-13=-298/208, 5-13=-125/635, 5-11=-682/298, 6-11=-43/335, 7-11=-205/566, 7-10=-383/167, 8-10=-190/877

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 16-8-0, Zone2 16-8-0 to 20-10-15, Zone1 20-10-15 to 22-10-0, Zone2 22-10-0 to 27-0-15, Zone1 27-0-15 to 29-4-4 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=327, 9=261.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

March 27,2024

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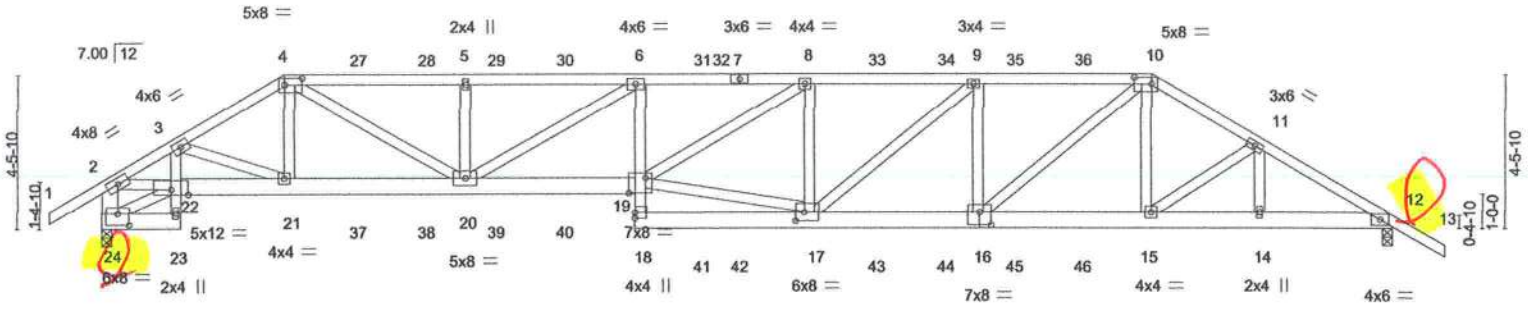
Job	Truss	Truss Type	Qty	Ply	LOT 14 AMELIA LANDING	
3927410	T12	Hip Girder	1	2	Job Reference (optional)	T33361679

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 26 13:19:09 2024 Page 1
ID:z3ohkPVXkHLTnshACqKTS0zX8iQ-ZD86nhuVXJTh5PagvturkaK_DusdEskw9gDxDJzX2jW

-1-6-0	2-3-8	5-3-7	10-6-8	15-6-0	20-6-9	25-5-7	30-6-0	33-7-12	37-6-0	39-0-0
1-6-0	2-3-8	2-11-15	5-3-1	4-11-8	5-0-9	4-10-13	5-0-9	3-1-12	3-10-4	1-6-0

Scale = 1:67.0



2-3-8	5-3-7	10-6-8	15-6-0	20-6-9	25-5-7	30-6-0	33-7-12	37-6-0
2-3-8	2-11-15	5-3-1	4-11-8	5-0-9	4-10-13	5-0-9	3-1-12	3-10-4

Plate Offsets (X,Y)-- [4:0-6-0,0-2-4], [10:0-6-0,0-2-4], [16:0-4-0,0-4-8], [17:0-3-0,0-3-0], [19:0-5-12,0-5-4], [24:0-4-0,0-4-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.70	Vert(LL)	0.39	19	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.97	Vert(CT)	-0.63	19	>706	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.74	Horz(CT)	0.20	12	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 507 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
3-23: 2x4 SP No.3, 6-18: 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
17-19: 2x4 SP No.2, 2-24: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-5-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 22-23
8-0-13 oc bracing: 19-20.

REACTIONS. (size) 12=0-3-8, 24=0-3-8
Max Horz 24=-139(LC 6)
Max Uplift 12=-1193(LC 9), 24=-1221(LC 8)
Max Grav 12=2917(LC 1), 24=2952(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4657/1958, 3-4=-5132/2171, 4-5=-7517/3176, 5-6=-7517/3176, 6-8=-9273/3905, 8-9=-7080/2972, 9-10=-6273/2655, 10-11=-5163/2182, 11-12=-5274/2168, 2-24=-2814/1189
BOT CHORD 23-24=-128/288, 3-22=-386/209, 21-22=-1771/4076, 20-21=-1904/4428, 19-20=-3940/9366, 6-19=-178/627, 17-18=-313/766, 16-17=-2591/6287, 15-16=-1779/4453, 14-15=-1785/4514, 12-14=-1785/4514
WEBS 3-21=-366/446, 4-21=-130/442, 4-20=-1539/3607, 5-20=-555/337, 6-20=-2174/939, 17-19=-2723/6520, 8-19=-1096/2506, 8-17=-1880/936, 9-17=-466/1068, 9-16=-1260/669, 10-16=-1040/2380, 10-15=-196/680, 11-15=-282/222, 2-22=-1570/3807

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
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; end vertical left exposed; 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) 12=1193, 24=1221.

Continued on page 2

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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Date:

March 27,2024

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NOTES-

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 131 lb down and 100 lb up at 5-3-7, 131 lb down and 97 lb up at 7-4-3, 131 lb down and 97 lb up at 9-4-3, 131 lb down and 97 lb up at 11-4-3, 131 lb down and 97 lb up at 13-4-3, 131 lb down and 97 lb up at 15-4-3, 135 lb down and 108 lb up at 17-4-3, 135 lb down and 108 lb up at 18-5-4, 135 lb down and 112 lb up at 20-5-4, 135 lb down and 112 lb up at 22-5-4, 135 lb down and 112 lb up at 24-5-4, 135 lb down and 112 lb up at 26-5-4, and 135 lb down and 112 lb up at 28-5-4, and 266 lb down and 223 lb up at 30-6-0 on top chord, and 234 lb down and 167 lb up at 5-3-7, 82 lb down and 37 lb up at 7-4-3, 82 lb down and 37 lb up at 9-4-3, 82 lb down and 37 lb up at 11-4-3, 82 lb down and 37 lb up at 13-4-3, 82 lb down and 37 lb up at 15-7-12, 86 lb down and 23 lb up at 17-4-3, 86 lb down and 23 lb up at 18-5-4, 86 lb down and 23 lb up at 20-5-4, 86 lb down and 23 lb up at 22-5-4, 86 lb down and 23 lb up at 24-5-4, 86 lb down and 23 lb up at 26-5-4, and 86 lb down and 23 lb up at 28-5-4, and 334 lb down and 168 lb up at 30-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

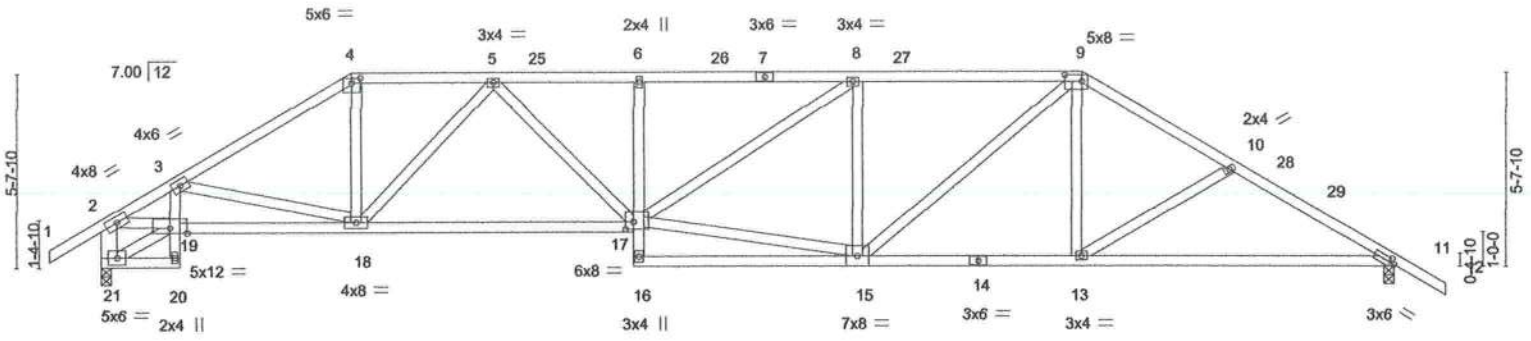
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-2=-54, 2-4=-54, 4-10=-54, 10-13=-54, 23-24=-20, 19-22=-20, 12-18=-20
   Concentrated Loads (lb)
   Vert: 4=-99(B) 7=-109(B) 10=-183(B) 6=-99(B) 21=-225(B) 19=-76(B) 8=-109(B) 17=-64(B) 15=-334(B) 27=-99(B) 28=-99(B) 29=-99(B) 30=-99(B) 31=-109(B) 33=-109(B) 34=-109(B) 35=-109(B) 36=-109(B) 37=-76(B) 38=-76(B) 39=-76(B) 40=-76(B) 41=-64(B) 42=-64(B) 43=-64(B) 44=-64(B) 45=-64(B) 46=-64(B)

Job	Truss	Truss Type	Qty	Ply	LOT 14 AMELIA LANDING	
3927410	T13	Hip	1	1	Job Reference (optional)	T33361680

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 26 13:19:10 2024 Page 1
ID:z3ohkPVXkHLTnshACqKTS0zX8iQ-1PiU?1u7ldbYiY8sTaP4HosBclEWzHx3OKzVllzX2jV

-1-6-0	2-3-8	7-3-7	11-4-11	15-6-0	22-0-0	28-6-0	32-9-8	37-6-0	39-0-0
1-6-0	2-3-8	4-11-15	4-1-5	4-1-5	6-6-0	6-6-0	4-3-8	4-8-8	1-6-0

Scale = 1:67.0



2-3-8	7-3-7	15-6-0	22-0-0	28-6-0	37-6-0
2-3-8	4-11-15	8-2-9	6-6-0	6-6-0	9-0-0

Plate Offsets (X,Y)– [4:0-3-0,0-1-12], [9:0-6-0,0-2-4], [11:0-1-8,0-1-8], [17:0-2-12,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.53	Vert(LL)	-0.20	6	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.86	Vert(CT)	-0.45	17-18	>985	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.17	11	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 224 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
3-20,6-16: 2x4 SP No.3
WEBS 2x4 SP No.3 *Except*
2-21: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-1-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-0-12 oc bracing.

REACTIONS. (size) 21=0-3-8, 11=0-3-8
Max Horz 21=-170(LC 10)
Max Uplift 21=-402(LC 12), 11=-413(LC 13)
Max Grav 21=1473(LC 1), 11=1459(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2093/578, 3-4=-2201/566, 4-5=-1882/541, 5-6=-2886/771, 6-8=-2864/769, 8-9=-2365/658, 9-10=-2123/587, 10-11=-2357/657, 2-21=-1391/400
BOT CHORD 18-19=-599/1892, 17-18=-698/2458, 6-17=-283/157, 13-15=-345/1786, 11-13=-473/1993
WEBS 3-18=-257/169, 4-18=-183/833, 5-18=-913/367, 5-17=-197/643, 15-17=-564/2271, 8-17=-224/614, 8-15=-736/341, 9-15=-336/826, 9-13=-48/380, 10-13=-293/185, 2-19=-492/1797

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 2-1-12, Zone1 2-1-12 to 7-3-7, Zone2 7-3-7 to 12-7-1, Zone1 12-7-1 to 28-6-0, Zone2 28-6-0 to 33-9-10, Zone1 33-9-10 to 39-0-0 zone; end vertical left 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) 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) 21=402, 11=413.

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.

Philip J. O'Regan PE No.58126
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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

March 27,2024

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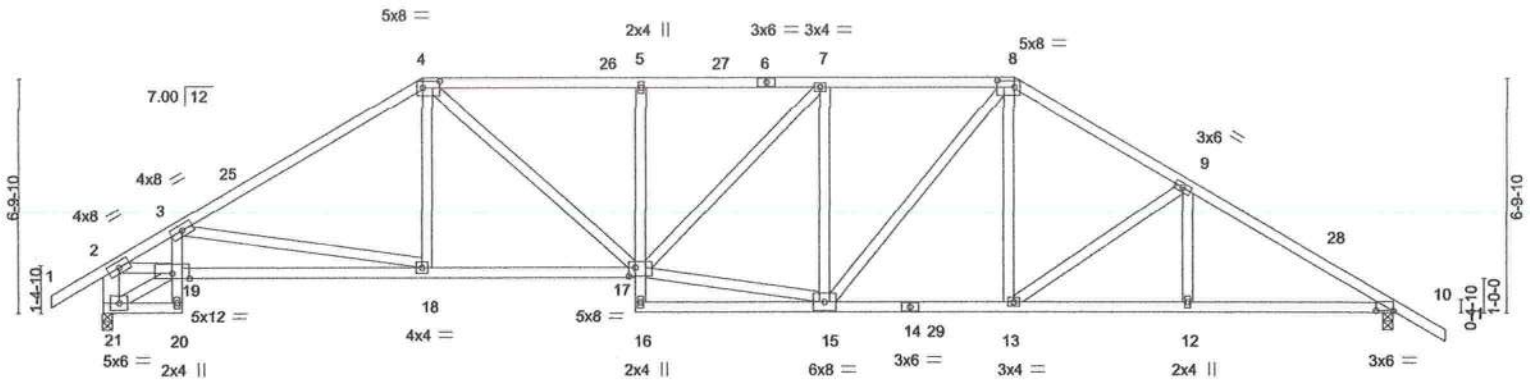
Job	Truss	Truss Type	Qty	Ply	LOT 14 AMELIA LANDING	T33361681
3927410	T14	Hip	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 26 13:19:11 2024 Page 1
ID:z3ohkPVXkHLTnshACqKTS0zX8iQ-VcFsCNvl3xjPKij21HxJq?PlFhbSilVCc_j2HBzX2jU

-1-6-0	2-3-8	9-3-7	15-6-0	21-0-0	26-6-0	31-6-9	37-6-0	39-0-0
1-6-0	2-3-8	6-11-15	6-2-9	5-6-0	5-6-0	5-0-9	5-11-7	1-6-0

Scale = 1:67.0



2-3-8	9-3-7	15-6-0	21-0-0	26-6-0	31-6-9	37-6-0
2-3-8	6-11-15	6-2-9	5-6-0	5-6-0	5-0-9	5-11-7

Plate Offsets (X,Y)-- [4:0-6-0,0-2-4], [8:0-6-0,0-2-4], [10:0-6-0,0-0-4], [17:0-2-4,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.80	Vert(LL)	-0.19	17-18	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.81	Vert(CT)	-0.33	17-18	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.17	10	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 234 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
3-20,5-16: 2x4 SP No.3
WEBS 2x4 SP No.3 *Except*
2-21: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-7-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-3-3 oc bracing.

REACTIONS. (size) 10=0-3-8, 21=0-3-8
Max Horz 21=-198(LC 10)
Max Uplift 10=-410(LC 13), 21=-399(LC 12)
Max Grav 10=1560(LC 2), 21=1559(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2298/601, 3-4=-2268/540, 4-5=-2461/600, 5-7=-2444/596, 7-8=-2132/567, 8-9=-2145/563, 9-10=-2547/623, 2-21=-1470/387
BOT CHORD 18-19=-665/2223, 17-18=-433/1893, 5-17=-339/198, 13-15=-259/1807, 12-13=-430/2151, 10-12=-430/2151
WEBS 3-18=-520/298, 4-18=-10/374, 4-17=-317/814, 15-17=-399/2050, 7-17=-181/463, 7-15=-640/302, 8-15=-249/576, 8-13=-92/503, 9-13=-526/219, 2-19=-549/1991

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 2-1-12, Zone1 2-1-12 to 9-3-7, Zone2 9-3-7 to 14-7-1,* Zone1 14-7-1 to 26-6-0, Zone2 26-6-0 to 31-6-9, Zone1 31-6-9 to 39-0-0 zone; end vertical left 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) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=410, 21=399.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

March 27,2024

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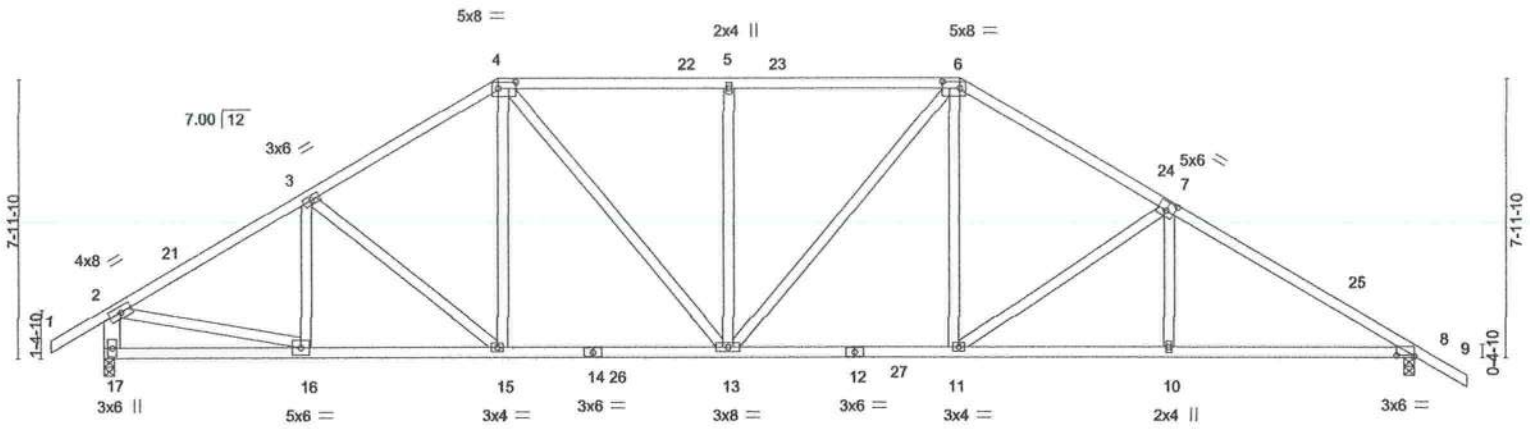
Job	Truss	Truss Type	Qty	Ply	LOT 14 AMELIA LANDING
3927410	T15	Hip	1	1	T33361682
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 26 13:19:11 2024 Page 1
ID:z3ohkPVXkHLTnshACqKTS0zX8iQ-VcFsCNvl3xjPKij21HxJq?PNyhcainOCc_i2HBzX2jU

-1-6-0	5-9-7	11-3-7	17-10-11	24-6-0	30-6-0	37-6-0	39-0-0
1-6-0	5-9-7	5-5-15	6-7-5	6-7-5	6-0-0	7-0-0	1-6-0

Scale = 1:66.0



5-9-7	11-3-7	17-10-11	24-6-0	30-6-0	37-6-0
5-9-7	5-5-15	6-7-5	6-7-5	6-0-0	7-0-0

Plate Offsets (X,Y)-- [4:0-6-0,0-2-4], [6:0-6-0,0-2-4], [7:0-3-0,0-3-0], [8:0-6-0,0-0-3]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.50	Vert(LL)	-0.16	11-13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.74	Vert(CT)	-0.28	11-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.09	8	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 227 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-17: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-2-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-1-1 oc bracing.

REACTIONS. (size) 17=0-3-8, 8=0-3-8
Max Horz 17=200(LC 11)
Max Uplift 17=-395(LC 12), 8=-406(LC 13)
Max Grav 17=1599(LC 2), 8=1583(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1980/465, 3-4=-1895/481, 4-5=-1905/488, 5-6=-1905/488, 6-7=-2059/528, 7-8=-2552/604, 2-17=-1503/409
BOT CHORD 16-17=-190/270, 15-16=-399/1660, 13-15=-298/1585, 11-13=-195/1722, 10-11=-402/2147, 8-10=-402/2148
WEBS 4-15=-58/384, 4-13=-225/559, 5-13=-410/235, 6-13=-211/381, 6-11=-110/610, 7-11=-639/266, 7-10=0/270, 2-16=-264/1573

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 2-3-0, Zone1 2-3-0 to 11-3-7, Zone2 11-3-7 to 16-7-1, Zone1 16-7-1 to 24-6-0, Zone2 24-6-0 to 29-9-10, Zone1 29-9-10 to 39-0-0 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) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 17=395, 8=406.

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Date:

March 27,2024

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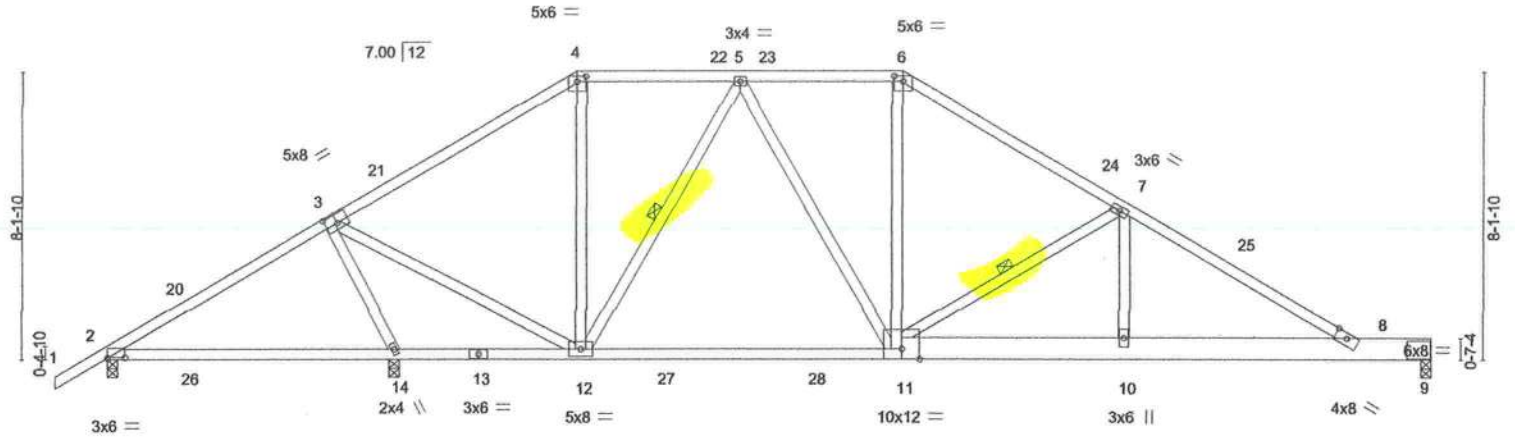
Job	Truss	Truss Type	Qty	Ply	LOT 14 AMELIA LANDING	T33361683
3927410	T16	Roof Special	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 26 13:19:12 2024 Page 1
ID:z3ohkPVXkHLTnshACqKTS0zX8iQ-_opEQjwNqErGysIFb?SYMDyWw5uJREoMreScqezX2jT

-1-6-0	6-4-0	13-3-7	17-10-11	22-6-0	28-9-11	35-1-7	37-6-0
1-6-0	6-4-0	6-11-7	4-7-5	4-7-5	6-3-11	6-3-11	2-4-9

Scale = 1:65.3



8-1-12	13-3-7	22-6-0	28-9-11	35-1-7	37-6-0
8-1-12	5-1-11	9-2-9	6-3-11	6-3-11	2-4-9

Plate Offsets (X,Y)-- [2:0-6-0,0-0-3], [2:0-0-0,0-0-3], [3:0-4-0,0-3-0], [4:0-3-0,0-1-12], [6:0-3-0,0-1-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.61	Vert(LL)	0.13	14-19	>764	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.97	Vert(CT)	-0.45	11-12	>784	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.01	9	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 223 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
9-11: 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-7-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 5-12, 7-11

REACTIONS. (size) 2=0-3-8, 14=0-3-8, 9=0-3-8
Max Horz 2=206(LC 9)
Max Uplift 2=-104(LC 9), 14=-346(LC 12), 9=-203(LC 13)
Max Grav 2=259(LC 25), 14=1863(LC 2), 9=1118(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-49/479, 3-4=-612/179, 4-5=-452/188, 5-6=-1014/310, 6-7=-1256/299, 7-8=-2085/474
BOT CHORD 2-14=-429/197, 12-14=-1109/337, 11-12=-155/789, 10-11=-321/1773, 8-10=-320/1769
WEBS 3-14=-1779/409, 3-12=-231/1696, 5-12=-712/209, 5-11=-119/541, 6-11=-34/380, 7-11=-1019/368, 7-10=-76/627

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 2-3-0, Zone1 2-3-0 to 13-3-7, Zone2 13-3-7 to 18-7-1, Zone1 18-7-1 to 22-6-0, Zone2 22-6-0 to 27-9-10, Zone1 27-9-10 to 35-4-15 zone; porch left 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) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=104, 14=346, 9=203.

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.

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

March 27,2024

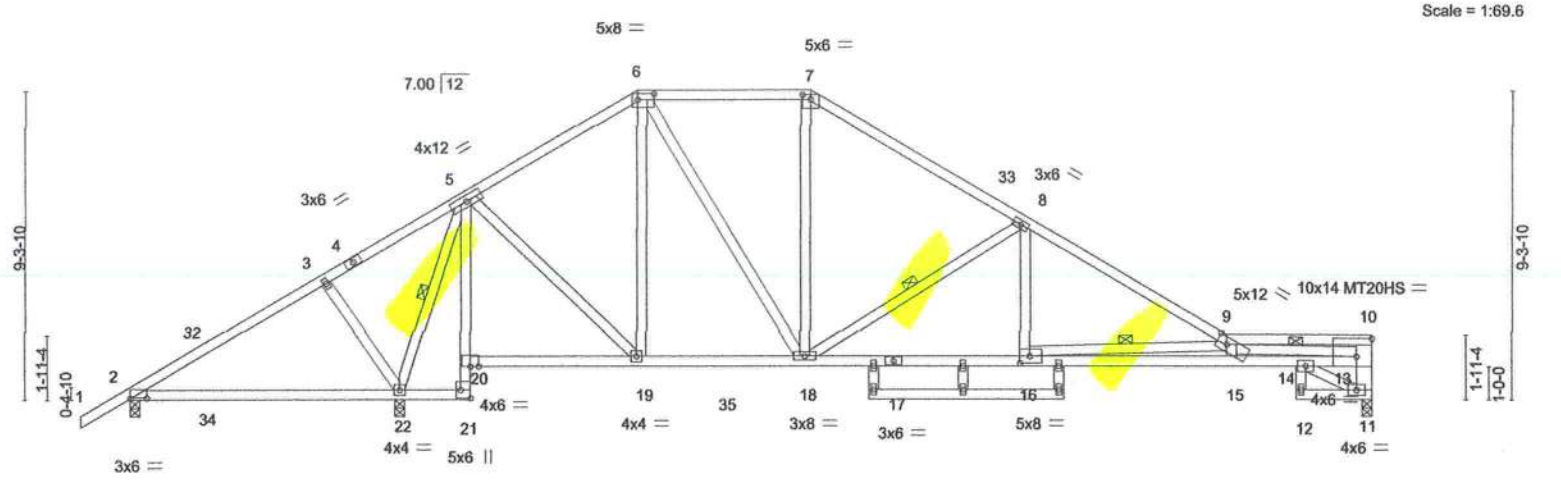
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	LOT 14 AMELIA LANDING	T33361684
3927410	T17	Roof Special	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 26 13:19:13 2024 Page 1
ID:z3ohkPVXkHLTnshACqKTS0zX8iQ-S_Ndd3x?bYz7Z0tR8iznvQUhdVE?AfiV4IB9M4zX2jS

-1-6-0	5-11-0	10-3-8	15-3-7	20-6-0	27-0-0	33-1-7	35-2-8	37-6-0
1-6-0	5-11-0	4-4-8	4-11-15	5-2-9	6-6-0	6-1-7	2-1-1	2-3-8

Scale = 1:69.6



8-1-12	10-3-8	15-3-7	20-6-0	22-3-8	27-0-0	28-2-0	33-1-7	35-2-8	37-6-0
8-1-12	2-1-12	4-11-15	5-2-9	1-9-8	4-8-8	1-2-0	4-11-7	2-1-1	2-3-8

Plate Offsets (X,Y)-- [2:0-6-0,0-0-3], [6:0-6-0,0-2-4], [7:0-3-0,0-1-12], [9:0-3-12,0-2-8], [10:Edge,0-6-8], [16:0-3-8,0-2-8], [21:Edge,0-3-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.61	Vert(LL)	-0.44	15-16	>795	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	1.00	Vert(CT)	-0.77	15-16	>454	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.16	11	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 *Except*
5-21,12-14,23-24: 2x4 SP No.3
13-17: 2x4 SP 2850F 2.0E or 2x4 SP M 31
WEBS 2x4 SP No.3 *Except*
10-11: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-6-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied. Except:
10-0-0 oc bracing: 16-18
WEBS 1 Row at midpt 5-22, 8-18, 9-16, 9-13

REACTIONS. (size) 11=0-3-8, 2=0-3-8, 22=0-3-8
Max Horz 2=231(LC 9)
Max Uplift 11=-267(LC 13), 2=-422(LC 28), 22=-464(LC 12)
Max Grav 11=997(LC 2), 2=30(LC 13), 22=2373(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-193/1216, 3-5=-181/1329, 5-6=-411/190, 6-7=-666/287, 7-8=-838/273, 8-9=-1800/468, 9-10=-1184/317, 11-13=-728/216
BOT CHORD 2-22=-1002/219, 21-22=-560/182, 19-20=-598/198, 18-19=-73/334, 16-18=-338/1517, 15-16=-1215/4569, 14-15=-1187/4535, 13-14=-1311/5022
WEBS 3-22=-289/191, 5-22=-1804/327, 5-19=-136/1185, 6-19=-644/134, 6-18=-196/723, 8-18=-1101/397, 8-16=-79/665, 9-16=-3070/882, 11-14=-456/108, 9-13=-3414/881

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 2-3-0, Zone1 2-3-0 to 15-3-7, Zone3 15-3-7 to 20-6-0, Zone2 20-6-0 to 25-9-10, Zone1 25-9-10 to 37-3-4 zone; porch left 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) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=267, 2=422, 22=464.

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.

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

March 27,2024

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

Job	Truss	Truss Type	Qty	Ply	LOT 14 AMELIA LANDING	T33361685
3927410	T18	Roof Special	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 26 13:19:14 2024 Page 1
ID:z3ohkPVXkHLTnshACqKTS0zX8iQ-wBx?qPxeMs5_BASdiQU0Re1u1vdkv5LflyxiuWzX2jR

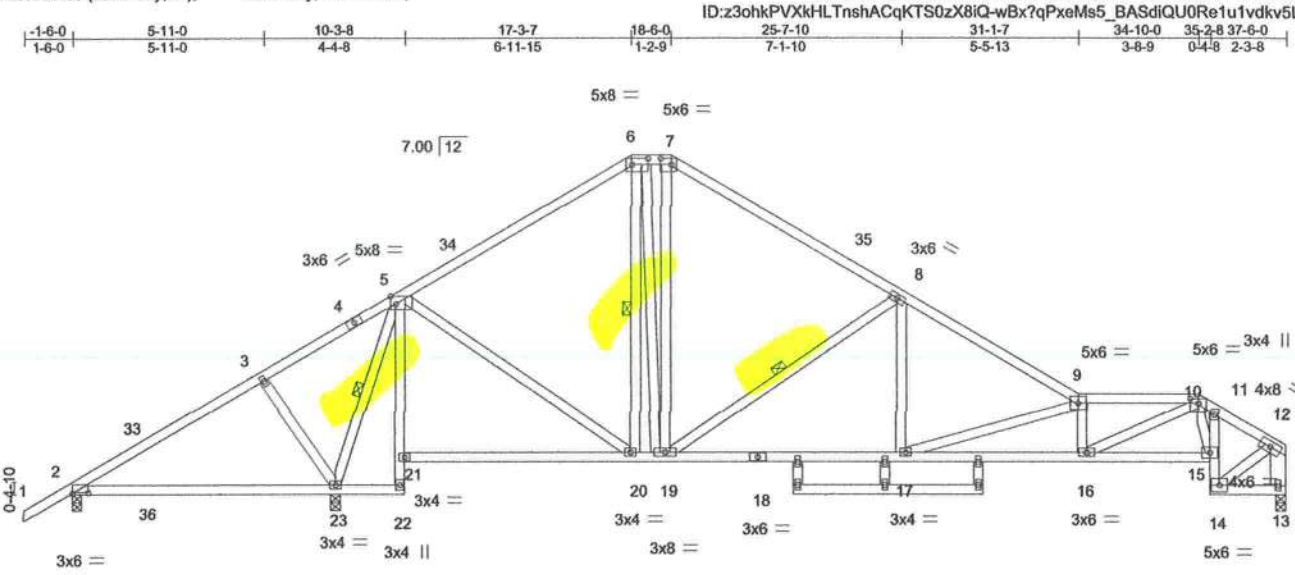


Plate Offsets (X,Y)-- [2:0-6-0,0-0-3], [5:0-1-15,Edge], [6:0-6-0,0-2-4], [7:0-4-0,0-2-4], [10:0-3-0,0-1-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.51	Vert(LL)	-0.14	16-17	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.78	Vert(CT)	-0.26	16-17	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.13	13	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 257 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
5-22,24-25: 2x4 SP No.3, 11-14: 2x4 SP No.1
WEBS 2x4 SP No.3 *Except*
12-13: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-6-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-23, 6-20, 8-19

REACTIONS. (size) 2=0-3-8, 13=0-3-8, 23=0-3-8
Max Horz 2=260(LC 9)
Max Uplift 2=-166(LC 26), 13=-296(LC 13), 23=-462(LC 12)
Max Grav 2=120(LC 25), 13=967(LC 1), 23=1876(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-164/695, 3-5=-151/806, 5-6=-715/312, 6-7=-569/321, 7-8=-764/301, 8-9=-1561/495, 9-10=-2470/770, 10-11=-1212/400, 11-12=-874/278, 12-13=-1037/329
BOT CHORD 2-23=-486/109, 19-20=-31/521, 17-19=-315/1317, 16-17=-732/2515, 15-16=-339/1171, 14-15=-345/112
WEBS 3-23=-255/175, 5-23=-1493/345, 5-20=-62/807, 6-20=-318/63, 6-19=-198/516, 8-19=-910/405, 8-17=-100/571, 9-17=-1262/439, 9-16=-567/221, 10-16=-421/1457, 10-15=-277/88, 12-14=-228/780

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 2-3-0, Zone1 2-3-0 to 17-3-7, Zone3 17-3-7 to 18-6-0, Zone2 18-6-0 to 23-9-10, Zone1 23-9-10 to 34-10-0, Zone3 34-10-0 to 37-3-4 zone; porch left 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) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
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) 2=166, 13=296, 23=462.

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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 27,2024

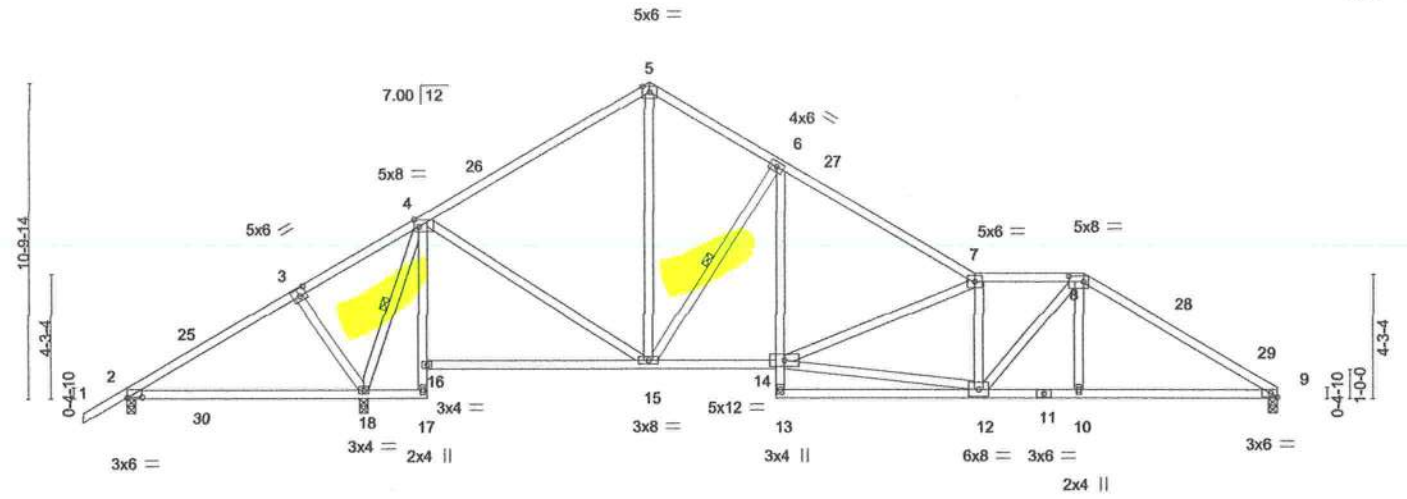
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	LOT 14 AMELIA LANDING	T33361686
3927410	T19	Roof Special	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 26 13:19:14 2024 Page 1
ID:z3ohkPVXkHLTnshACqKTS0zX8iQ-wBx?qPxeMs5_BASdiQU0Re1ruvgcv6jflyxiuWzX2jR

1-6-0	5-11-0	10-3-8	17-10-11	22-3-8	29-1-7	32-10-0	39-6-0
1-6-0	5-11-0	4-4-8	7-7-3	4-4-13	6-9-15	3-8-9	6-8-0

Scale = 1:79.3



8-1-12	10-3-8	17-10-11	22-3-8	29-1-7	32-10-0	39-6-0
8-1-12	2-1-12	7-7-3	4-4-13	6-9-15	3-8-9	6-8-0

Plate Offsets (X,Y)– [2:0-6-0,0-0-3], [3:0-3-0,0-3-0], [4:0-1-15,Edge], [8:0-6-0,0-2-4], [9:0-2-8,Edge]

LOADING (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)	0.11	18-24	>872	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.59	Vert(CT)	-0.24	12-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.04	9	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 241 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
4-17,6-13: 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-4-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 4-18, 6-15

REACTIONS. (size) 9=0-3-8, 2=0-3-8, 18=0-3-8
Max Horz 2=272(LC 11)
Max Uplift 9=-338(LC 13), 2=-159(LC 8), 18=-454(LC 12)
Max Grav 9=1065(LC 1), 2=142(LC 25), 18=1914(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-142/680, 3-4=-126/786, 4-5=-841/376, 5-6=-793/374, 6-7=-1356/474, 7-8=-1780/628, 8-9=-1724/548
BOT CHORD 2-18=-441/101, 14-15=-175/1100, 6-14=-184/655, 10-12=-379/1419, 9-10=-379/1414
WEBS 4-18=-1555/343, 4-15=-44/811, 5-15=-265/471, 6-15=-860/401, 12-14=-490/1704, 7-14=-780/341, 7-12=-582/236, 8-12=-149/550

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 2-5-6, Zone1 2-5-6 to 17-10-11, Zone2 17-10-11 to 23-5-12, Zone1 23-5-12 to 32-10-0, Zone2 32-10-0 to 38-5-1, Zone1 38-5-1 to 39-6-0 zone; porch left 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) 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=338, 2=159, 18=454.

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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 27,2024

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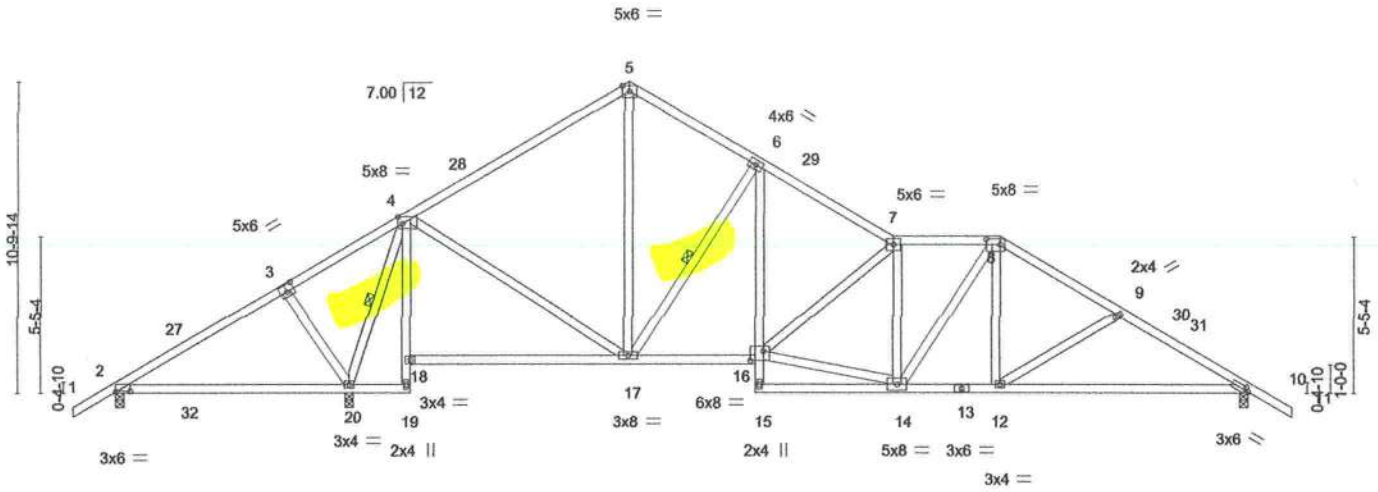
Job	Truss	Truss Type	Qty	Ply	LOT 14 AMELIA LANDING
3927410	T20	Roof Special	1	1	T33361687
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 26 13:19:15 2024 Page 1
ID:z3ohkPVXkHLTnshACqKTS0zX8iQ-ONVN2kyG79DrpK1pG7?F_ra1DJ_Ved5oXcgGQyzX2jQ

1-6-0	5-11-0	10-3-8	17-10-11	22-3-8	27-1-7	30-10-0	34-11-8	39-6-0	41-0-0
1-6-0	5-11-0	4-4-8	7-7-3	4-4-13	4-9-15	3-8-9	4-1-8	4-6-8	1-6-0

Scale = 1:80.4



8-1-12	10-3-8	17-10-11	22-3-8	27-1-7	30-10-0	39-6-0
8-1-12	2-1-12	7-7-3	4-4-13	4-9-15	3-8-9	8-8-0

Plate Offsets (X,Y)-- [2:0-6-0,0-0-3], [3:0-3-0,0-3-0], [4:0-1-15,Edge], [8:0-6-0,0-2-4], [10:0-1-8,0-1-8], [16:0-5-8,0-4-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.61	Vert(LL)	0.11	20-23	>873	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.68	Vert(CT)	-0.29	12-26	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.05	10	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 251 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
4-19,6-15: 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-3-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 4-20, 6-17

REACTIONS. (size) 2=0-3-8, 20=0-3-8, 10=0-3-8
Max Horz 2=-280(LC 10)
Max Uplift 2=-167(LC 8), 20=-442(LC 12), 10=-381(LC 13)
Max Grav 2=147(LC 25), 20=1900(LC 1), 10=1151(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-137/676, 3-4=-121/783, 4-5=-845/384, 5-6=-789/376, 6-7=-1349/495, 7-8=-1457/558, 8-9=-1537/528, 9-10=-1758/597
BOT CHORD 2-20=-425/98, 16-17=-149/1121, 6-16=-229/760, 12-14=-269/1277, 10-12=-424/1490
WEBS 4-20=-1543/330, 4-17=-26/800, 5-17=-259/452, 6-17=-886/391, 14-16=-345/1448, 7-16=-480/253, 7-14=-552/195, 8-14=-114/321, 8-12=-52/351, 9-12=-285/183

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 2-5-6, Zone1 2-5-6 to 17-10-11, Zone2 17-10-11 to 23-5-12, Zone1 23-5-12 to 30-10-0, Zone2 30-10-0 to 36-5-1, Zone1 36-5-1 to 41-0-0 zone; porch left 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) 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=167, 20=442, 10=381.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

March 27,2024

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Job	Truss	Truss Type	Qty	Ply	LOT 14 AMELIA LANDING
3927410	T21	Roof Special	1	1	T33361688
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 26 13:19:16 2024 Page 1
ID:z3ohkPVXkHLTnshACqKTS0zX8iQ-sZ3IF4zuuTLiQTc0qrWUX36C_iMlN5UxmGQpzPzX2jP

1-6-0	5-11-0	10-3-8	17-10-11	22-3-8	25-1-7	28-10-0	33-11-8	39-6-0	41-0-0
1-6-0	5-11-0	4-4-8	7-7-3	4-4-13	2-9-15	3-8-9	5-1-8	5-6-8	1-6-0

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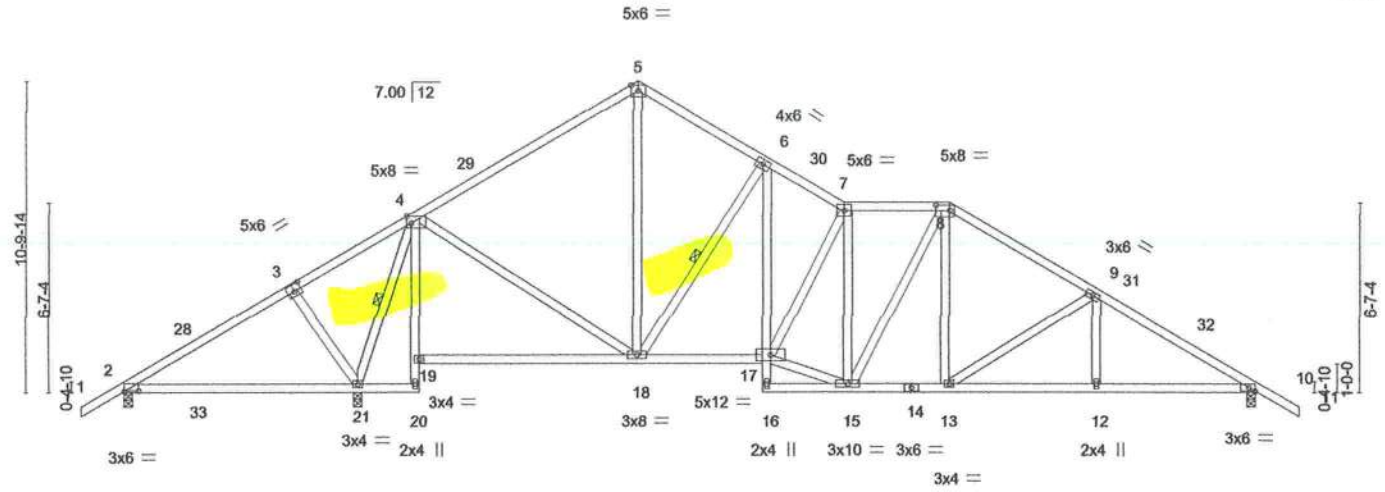

8-1-12	10-3-8	17-10-11	22-3-8	25-1-7	28-10-0	33-11-8	39-6-0
8-1-12	2-1-12	7-7-3	4-4-13	2-9-15	3-8-9	5-1-8	5-6-8

Plate Offsets (X,Y)-- [2:0-6-0,0-0-3], [3:0-3-0,0-3-0], [4:0-1-15,Edge], [8:0-6-0,0-2-4], [10:0-2-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.60	Vert(LL)	0.11	21-24	>873	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.55	Vert(CT)	-0.22	18-19	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.05	10	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 258 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
4-20,6-16: 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-2-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 4-21, 6-18

REACTIONS. (size) 2=0-3-8, 21=0-3-8, 10=0-3-8
Max Horz 2=-280(LC 10)
Max Uplift 2=-169(LC 8), 21=-438(LC 12), 10=-382(LC 13)
Max Grav 2=152(LC 25), 21=1886(LC 1), 10=1154(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-143/661, 3-4=-127/768, 4-5=-853/388, 5-6=-793/377, 6-7=-1295/508, 7-8=-1222/505, 8-9=-1404/511, 9-10=-1787/575
BOT CHORD 2-21=-406/89, 17-18=-146/1102, 6-17=-257/762, 13-15=-215/1151, 12-13=-395/1488, 10-12=-395/1488
WEBS 4-21=-1532/327, 4-18=-20/789, 5-18=-257/452, 6-18=-843/380, 15-17=-242/1255, 7-17=-311/207, 7-15=-509/138, 8-13=-86/343, 9-13=-438/214

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 2-5-6, Zone1 2-5-6 to 17-10-11, Zone2 17-10-11 to 23-5-12, Zone1 23-5-12 to 28-10-0, Zone2 28-10-0 to 34-5-1, Zone1 34-5-1 to 41-0-0 zone; porch left 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) 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=169, 21=438, 10=382.

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Date:

March 27,2024

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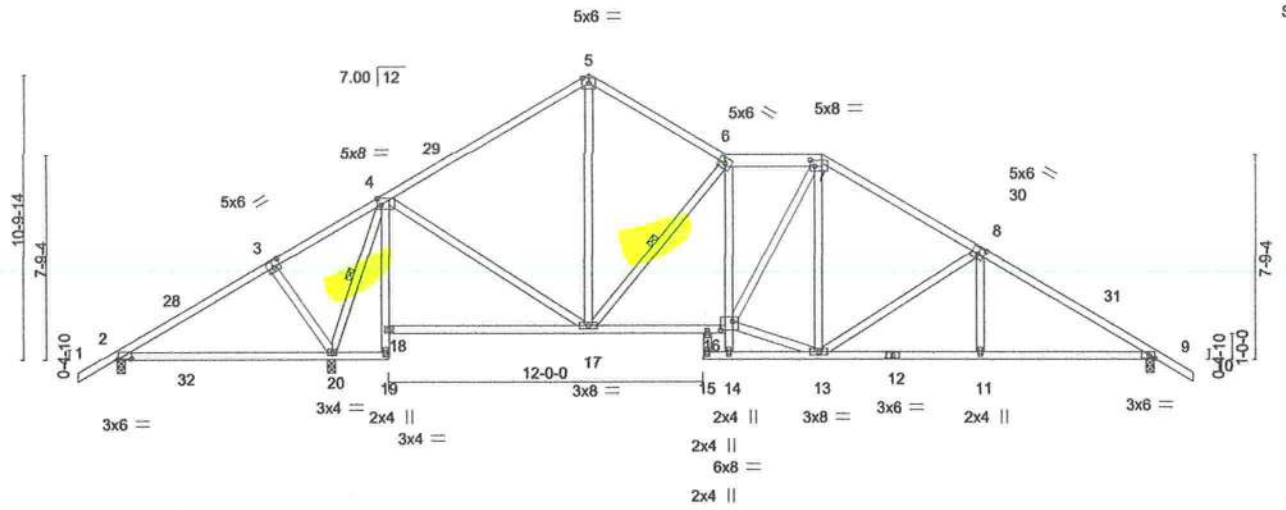
Job	Truss	Truss Type	Qty	Ply	LOT 14 AMELIA LANDING	T33361689
3927410	T22	Roof Special	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 26 13:19:16 2024 Page 1
ID:z3ohkPVXkHLTnshACqKTS0zX8iQ-sZ3lF4zuuTLiQTc0qrWUX36CxiL8N4dxmGQpzPzX2jP

1-6-0	5-11-0	10-3-8	17-10-11	23-1-7	26-10-0	32-10-0	39-6-0	41-0-0
1-6-0	5-11-0	4-4-8	7-7-3	5-2-11	3-8-9	6-0-0	6-8-0	1-6-0

Scale = 1:87.7



8-1-12	10-3-8	17-10-11	22-3-8	23-1-7	26-10-0	32-10-0	39-6-0
8-1-12	2-1-12	7-7-3	4-4-13	0-9-15	3-8-9	6-0-0	6-8-0

Plate Offsets (X,Y)-- [2:0-6-0,0-0-3], [3:0-3-0,0-3-0], [4:0-1-15,Edge], [7:0-2-0,0-2-12], [8:0-3-0,0-3-0], [9:0-2-8,Edge], [16:0-5-8,0-4-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.61	Vert(LL)	0.11	20-24	>873	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.59	Vert(CT)	-0.22	17-18	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.05	9	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 251 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except* 6-7: 2x6 SP No.2
BOT CHORD	2x4 SP No.2 *Except* 4-19,6-14: 2x4 SP No.3
WEBS	2x4 SP No.3

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-1-2 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing. Except: 10-0-0 oc bracing: 14-16
WEBS	1 Row at midpt 4-20, 6-17

REACTIONS. (size) 2=0-3-8, 20=0-3-8, 9=0-3-8
Max Horz 2=281(LC 11)
Max Uplift 2=-171(LC 8), 20=-431(LC 12), 9=-381(LC 13)
Max Grav 2=154(LC 25), 20=1887(LC 1), 9=1165(LC 1)

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

TOP CHORD	2-3=-148/651, 3-4=-133/758, 4-5=-871/388, 5-6=-823/369, 6-7=-1251/494, 7-8=-1302/483, 8-9=-1770/561
BOT CHORD	2-20=-393/80, 16-17=-184/1253, 11-13=-369/1462, 9-11=-369/1463
WEBS	4-20=-1536/321, 4-17=-14/791, 5-17=-239/466, 6-17=-949/390, 13-16=-149/1073, 7-16=-72/414, 8-13=-531/260, 8-11=0/273

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 2-5-6, Zone1 2-5-6 to 17-10-11, Zone3 17-10-11 to 23-1-7, Zone1 23-1-7 to 26-10-0, Zone2 26-10-0 to 32-5-1, Zone1 32-5-1 to 41-0-0 zone; porch left 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) 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=171, 20=431, 9=381.

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Date:

March 27,2024

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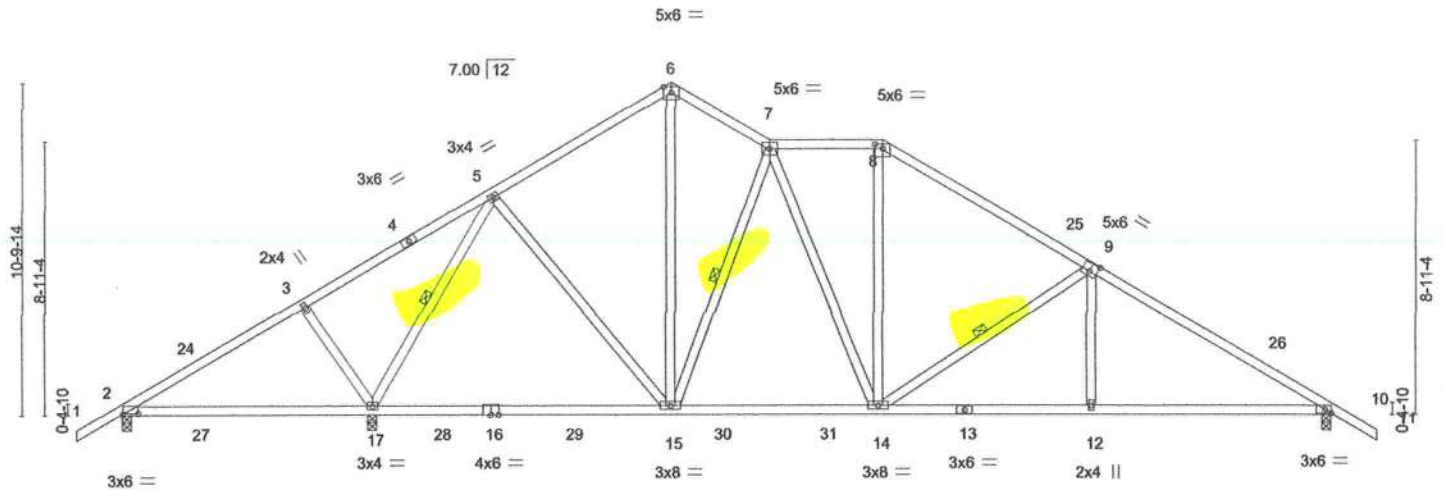
Job	Truss	Truss Type	Qty	Ply	LOT 14 AMELIA LANDING
3927410	T23	Roof Special	1	1	T33361690
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 26 13:19:17 2024 Page 1
ID:z3ohkPVXkHLTnshACqKTS0zX8iQ-Kmd7TQ_WfnTZ2dBCNY1j3GfNu6dd6W85?w9MVrzX2jO

1-6-0	5-11-0	12-0-13	17-10-11	21-1-7	24-10-0	31-8-0	39-6-0	41-0-0
1-6-0	5-11-0	6-1-13	5-9-14	3-2-11	3-8-9	6-10-0	7-10-0	1-6-0

Scale = 1:75.4



8-1-12	17-10-11	24-10-0	31-8-0	39-6-0
8-1-12	9-8-15	6-11-5	6-10-0	7-10-0

Plate Offsets (X,Y)-- [2:0-6-0,0-0-3], [8:0-3-0,0-1-12], [9:0-3-0,0-3-4], [10:0-2-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.59	Vert(LL)	0.13	17-20	>732	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.89	Vert(CT)	-0.46	15-17	>814	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.04	10	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 235 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-6-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 2-17.
WEBS 1 Row at midpt 5-17, 7-15, 9-14

REACTIONS. (size) 2=0-3-8, 17=0-3-8, 10=0-3-8
Max Horz 2=-280(LC 10)
Max Uplift 2=-79(LC 8), 17=-437(LC 12), 10=-357(LC 13)
Max Grav 2=253(LC 25), 17=2025(LC 19), 10=1335(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-98/452, 3-5=-89/609, 5-6=-925/342, 6-7=-862/331, 7-8=-1082/407, 8-9=-1317/408, 9-10=-1961/502
BOT CHORD 2-17=-407/246, 15-17=-116/466, 14-15=-60/1027, 12-14=-304/1607, 10-12=-304/1606
WEBS 3-17=-323/231, 5-17=-1622/335, 5-15=-55/612, 6-15=-240/645, 7-15=-795/357, 7-14=-92/255, 8-14=-54/408, 9-14=-752/310, 9-12=0/320

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 2-5-6, Zone1 2-5-6 to 17-10-11, Zone3 17-10-11 to 21-1-7, Zone1 21-1-7 to 24-10-0, Zone2 24-10-0 to 30-5-1, Zone1 30-5-1 to 41-0-0 zone; porch left 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) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 17=437, 10=357.

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Philip J. O'Regan PE No.58126
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Date:

March 27,2024

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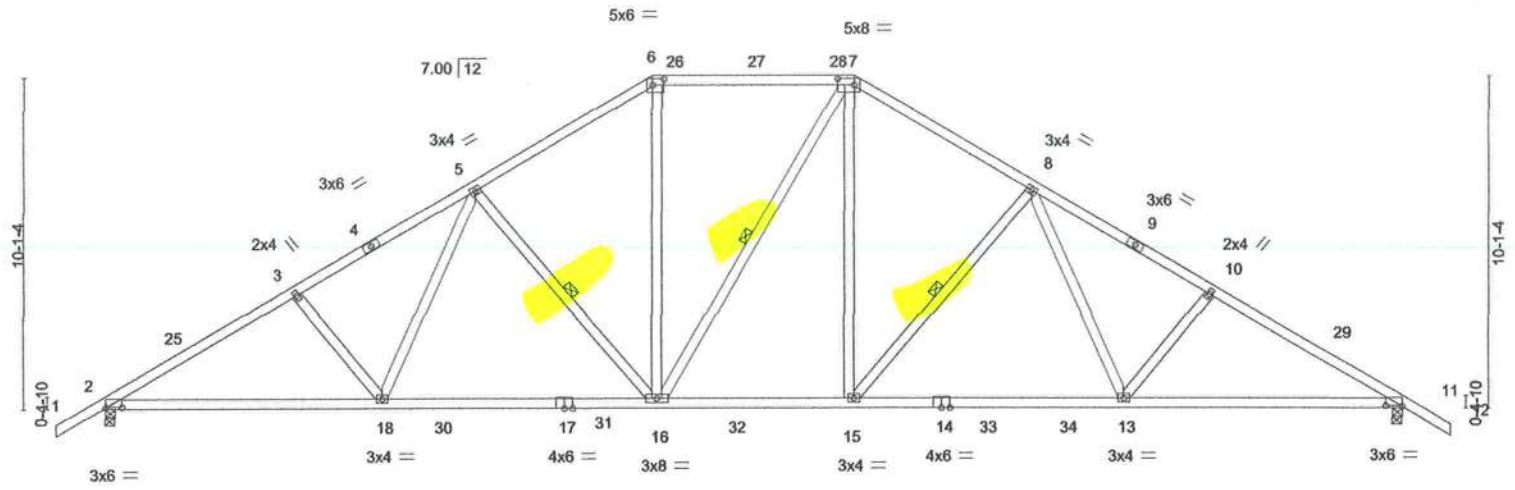
Job	Truss	Truss Type	Qty	Ply	LOT 14 AMELIA LANDING
3927410	T24	Hip	1	1	T33361691
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 26 13:19:18 2024 Page 1
ID:z3ohkPVXkHLTnshACqKTS0zX8iQ-oyBWgm_8Q4bQgnmOxFZycUBZZWxar12EDavw1HzX2jN

1-6-0	5-10-0	11-3-0	16-8-0	22-10-0	28-3-0	33-8-0	39-6-0	41-0-0
1-6-0	5-10-0	5-5-0	5-5-0	6-2-0	5-5-0	5-5-0	5-10-0	1-6-0

Scale = 1:70.4



8-5-4	16-8-0	22-10-0	31-0-12	39-6-0
8-5-4	8-2-12	6-2-0	8-2-12	8-5-4

Plate Offsets (X,Y)— [2:0-6-0,0-0-4], [6:0-4-0,0-2-4], [7:0-6-0,0-2-4], [11:0-6-0,0-0-3]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.54	Vert(LL)	-0.28	13-15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.97	Vert(CT)	-0.47	13-15	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.13	11	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 233 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-2-10 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing, Except: 10-0-0 oc bracing: 15-16.
WEBS	1 Row at midpt 5-16, 7-16, 8-15

REACTIONS. (size) 2=0-3-8, 11=0-3-8
Max Horz 2=-262(LC 10)
Max Uplift 2=-413(LC 12), 11=-413(LC 13)
Max Grav 2=1733(LC 19), 11=1736(LC 20)

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

TOP CHORD	2-3=-2781/635, 3-5=-2638/630, 5-6=-1972/505, 6-7=-1657/483, 7-8=-1978/505, 8-10=-2644/630, 10-11=-2788/635
BOT CHORD	2-18=-620/2533, 16-18=-444/2110, 15-16=-198/1662, 13-15=-276/2012, 11-13=-443/2368
WEBS	3-18=-290/206, 5-18=-123/623, 5-16=-678/297, 6-16=-146/747, 7-15=-185/817, 8-15=-678/297, 8-13=-123/623, 10-13=-290/207

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 2-5-6, Zone1 2-5-6 to 16-8-0, Zone2 16-8-0 to 22-3-1, Zone1 22-3-1 to 22-10-0, Zone2 22-10-0 to 28-3-0, Zone1 28-3-0 to 41-0-0 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) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=413, 11=413.

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Philip J. O'Regan PE No.58126
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Date:

March 27,2024

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Job	Truss	Truss Type	Qty	Ply	LOT 14 AMELIA LANDING	T33361692
3927410	T25	Piggyback Base	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 26 13:19:18 2024 Page 1
ID:z3ohkPVXkHLTnshACqKTS0zX8iQ-oyBWgm_8Q4bQgnmOxFZycUBYdWxar12EDavw1HzX2jN

-1-6-0	5-10-0	11-3-0	16-8-0	22-10-0	28-3-0	33-8-0	39-6-0	41-0-0
1-6-0	5-10-0	5-5-0	5-5-0	6-2-0	5-5-0	5-5-0	5-10-0	1-6-0

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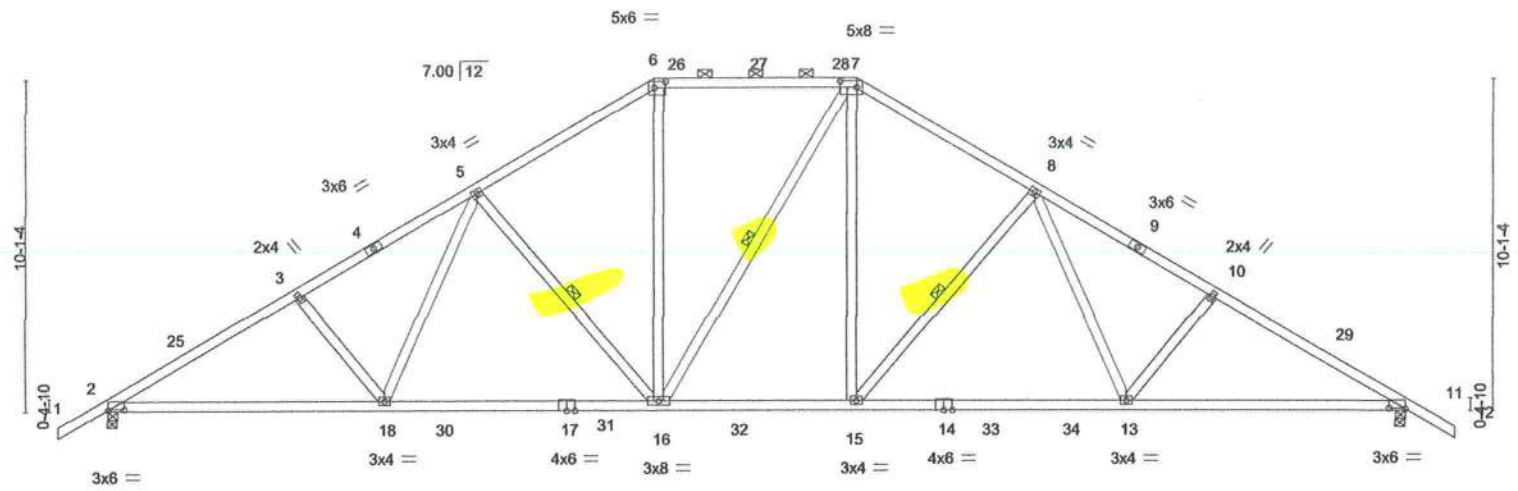

8-5-4	16-8-0	22-10-0	31-0-12	39-6-0
8-5-4	8-2-12	6-2-0	8-2-12	8-5-4

Plate Offsets (X,Y)-- [2:0-6-0,0-0-4], [6:0-4-0,0-2-4], [7:0-6-0,0-2-4], [11:0-6-0,0-0-3]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.60	Vert(LL)	-0.28	13-15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.97	Vert(CT)	-0.47	13-15	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.13	11	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 233 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-2-10 oc purlins, except
2-0-0 oc purlins (3-10-5 max.): 6-7.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing, Except:
10-0-0 oc bracing: 15-16.
WEBS 1 Row at midpt 5-16, 7-16, 8-15

REACTIONS. (size) 2=0-3-8, 11=0-3-8
Max Horz 2=-262(LC 10)
Max Uplift 2=-413(LC 12), 11=-413(LC 13)
Max Grav 2=1733(LC 19), 11=1736(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2781/635, 3-5=-2638/630, 5-6=-1972/505, 6-7=-1657/483, 7-8=-1978/505, 8-10=-2644/630, 10-11=-2788/635
BOT CHORD 2-18=-620/2533, 16-18=-444/2110, 15-16=-198/1662, 13-15=-276/2012, 11-13=-443/2368
WEBS 3-18=-290/206, 5-18=-123/623, 5-16=-678/297, 6-16=-146/747, 7-15=-185/817, 8-15=-678/297, 8-13=-123/623, 10-13=-290/207

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 2-5-6, Zone1 2-5-6 to 16-8-0, Zone2 16-8-0 to 22-3-1, Zone1 22-3-1 to 22-10-0, Zone2 22-10-0 to 28-3-0, Zone1 28-3-0 to 41-0-0 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) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=413, 11=413.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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.

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

March 27,2024

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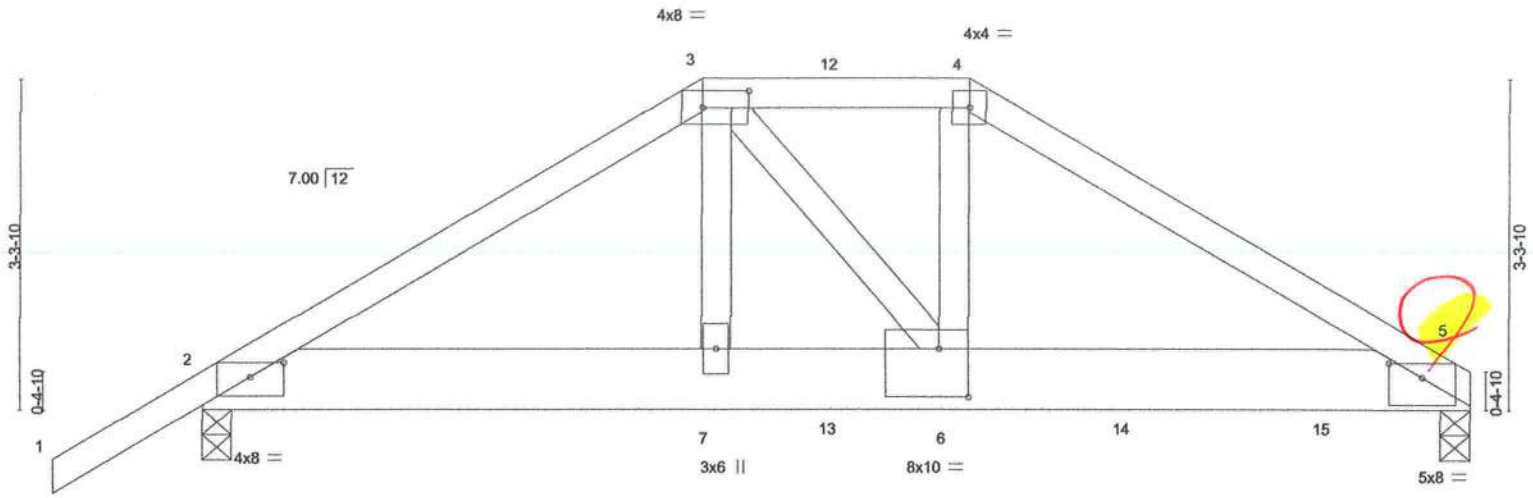
Job	Truss	Truss Type	Qty	Ply	LOT 14 AMELIA LANDING
3927410	T26	Hip Girder	1	2	T33361693
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 26 13:19:19 2024 Page 1
ID:z3ohkPVXkHLTnshACqKTS0zX8iQ-G8kuu6?mBOjHlxKbVz4B8hkoAwSiaT_OSEeTZkzX2jM

-1-6-0 | 5-0-0 | 7-8-0 | 12-8-0
1-6-0 | 5-0-0 | 2-8-0 | 5-0-0

Scale = 1:23.1



5-0-0 | 7-8-0 | 12-8-0
5-0-0 | 2-8-0 | 5-0-0

Plate Offsets (X,Y)-- [2:0-4-0,0-1-11], [3:0-5-8,0-2-0], [5:0-4-0,0-1-11], [6:0-3-8,0-5-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.29	Vert(LL)	-0.04	6-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.28	Vert(CT)	-0.08	6-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.43	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 150 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-4-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 2=0-3-8
Max Horz 2=86(LC 28)
Max Uplift 5=-1308(LC 9), 2=-784(LC 8)
Max Grav 5=3802(LC 1), 2=2104(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3606/1344, 3-4=-4434/1678, 4-5=-5046/1857
BOT CHORD 2-7=-1129/3053, 6-7=-1129/3053, 5-6=-1544/4319
WEBS 3-6=-789/2142, 4-6=-776/2254

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-6-0 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) 5=1308, 2=784.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 105 lb down and 90 lb up at 5-0-0, and 105 lb down and 79 lb up at 6-4-0, and 105 lb down and 90 lb up at 7-8-0 on top chord, and 135 lb down and 37 lb up at 5-0-0, 50 lb down and 17 lb up at 6-4-0, 2402 lb down and 990 lb up at 7-3-4, 135 lb down and 37 lb up at 7-7-4, and 1163 lb down and 317 lb up at 9-3-4, and 1164 lb down and 314 lb up at 11-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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Date:

March 27,2024

Continued on page 2

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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, 4-5=-54, 2-5=-20
   Concentrated Loads (lb)
   Vert: 3=-59(B) 4=-59(B) 7=-92(B) 6=-2494(F=-2402, B=-92) 12=-59(B) 13=-38(B) 14=-1051(F) 15=-1051(F)

Job	Truss	Truss Type	Qty	Ply	LOT 14 AMELIA LANDING
3927410	T27	Roof Special	2	1	T33361694
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 26 13:19:20 2024 Page 1
ID:z3ohkPVXkHLTnshACqKTS0zX8iQ-IKIG5S0Oyir7v5vn3gbQhvHw?KmiJ?aXhuO16AzX2jL

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1-6-0 6-4-0 0-10-8

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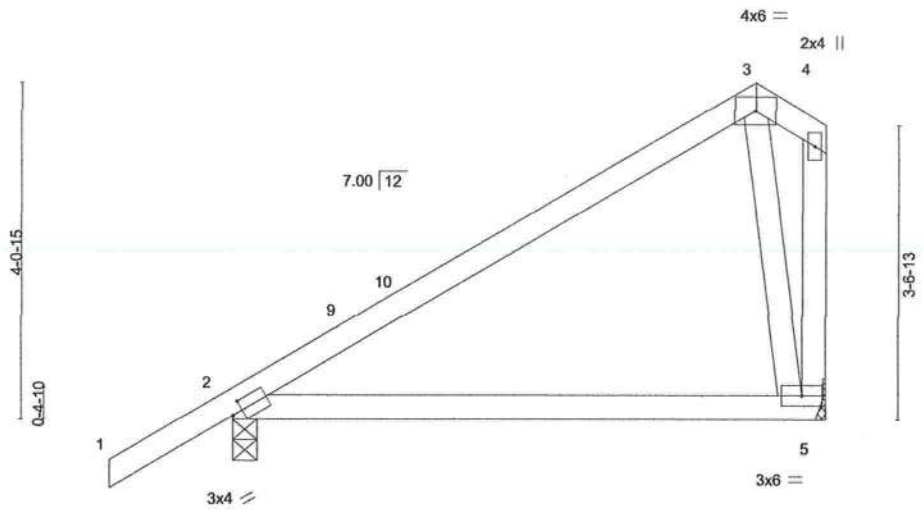

7-2-8
7-2-8

Plate Offsets (X,Y)-- [2:0-1-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.41	Vert(LL)	-0.08	5-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.42	Vert(CT)	-0.17	5-8	>508	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 36 lb	FT = 20%

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

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

REACTIONS. (size) 2=0-3-8, 5=Mechanical
Max Horz 2=162(LC 12)
Max Uplift 2=-93(LC 12), 5=-103(LC 12)
Max Grav 2=351(LC 1), 5=254(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-5=-292/293

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 6-4-0, Zone3 6-4-0 to 7-0-12 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.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 5=103.

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Date:

March 27,2024

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Job	Truss	Truss Type	Qty	Ply	LOT 14 AMELIA LANDING
3927410	T28	Common	2	1	T33361695
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 26 13:19:20 2024 Page 1
ID:z3ohkPVXkHLTnshACqKTS0zX8iQ-IKIG5S0Oyir7v5vn3gbQhvHzMKrVJ05XhuO16AzX2jL

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1-6-0 | 3-4-0 | 3-4-0 | 1-6-0

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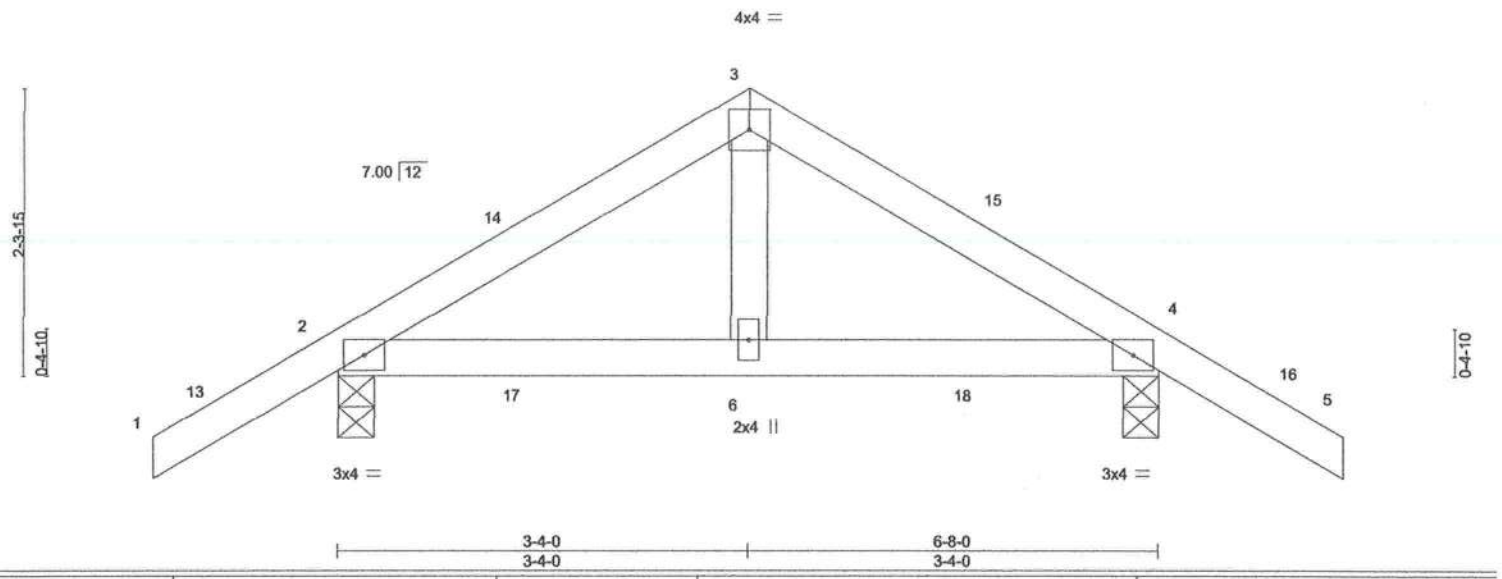

3-4-0 | 6-8-0
3-4-0 | 3-4-0

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.20	Vert(LL)	0.01	6-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	-0.01	6-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MP							Weight: 30 lb	FT = 20%

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

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

REACTIONS. (size) 2=0-3-8, 4=0-3-8
Max Horz 2=-70(LC 10)
Max Uplift 2=-102(LC 12), 4=-102(LC 13)
Max Grav 2=328(LC 1), 4=328(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-262/206, 3-4=-262/206

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 3-4-0, Zone2 3-4-0 to 7-6-15, Zone1 7-6-15 to 8-2-0 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=102, 4=102.

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Date:

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Job	Truss	Truss Type	Qty	Ply	LOT 14 AMELIA LANDING
3927410	T28G	Common Supported Gable	1	1	T33361696
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Feb 22 2024 MiTek Industries, Inc. Tue Mar 26 13:19:21 2024 Page 1
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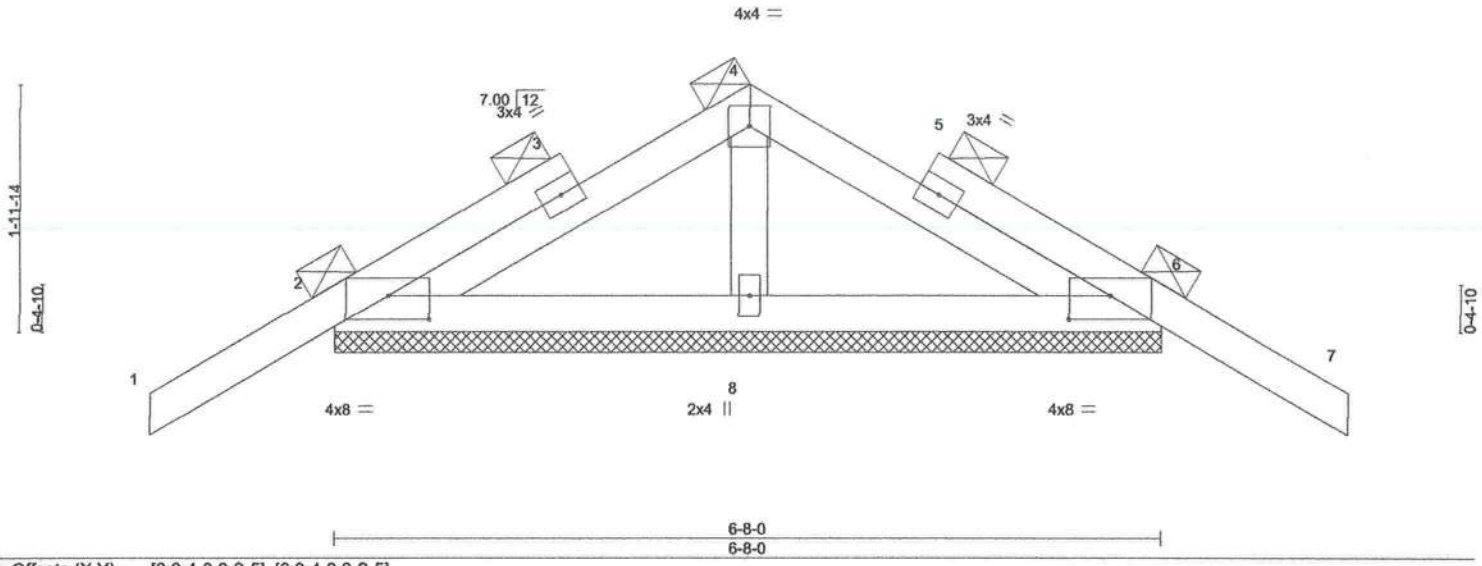
Scale = 1:18.6



6-8-0 / 6-8-0

Plate Offsets (X,Y)– [2:0-4-0,0-2-5], [6:0-4-0,0-2-5]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.20	Vert(LL)	-0.00	7	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	-0.00	7	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-P							Weight: 34 lb	FT = 20%

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

BRACING-
TOP CHORD 2-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 2=6-8-0, 6=6-8-0, 8=6-8-0
Max Horz 2=61(LC 11)
Max Uplift 2=-75(LC 12), 6=-84(LC 13), 8=-57(LC 12)
Max Grav 2=199(LC 25), 6=199(LC 26), 8=275(LC 1)

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

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 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Gable requires continuous bottom chord bearing.
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, 6, 8.
10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 6.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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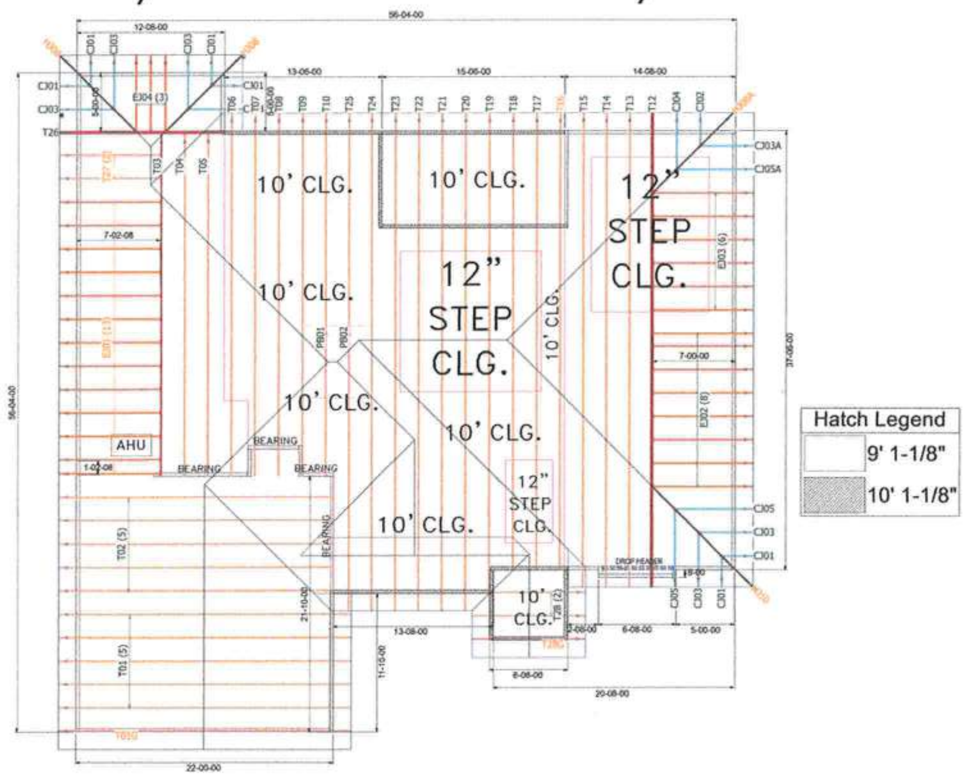
7/12 PITCH – 18" O/H



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

General Notes

Notes

Builders FirstSource

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

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

Tallahassee
PHONE: 850-576-5177

Builder: STEVEN WINSBERG		
Legal Address: Lot 14 Amelia Landing		
Model: 1880		
Date: 3-26-24	Drawn By: KLH	Original Ref #: 3927410
N/A	N/A	3927410