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

RE: 4190707 - LANDER RES.

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

Site Information:

Customer Info: STROUBE LANDER Project Name: Lander Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: 144 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: 120 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 54 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.

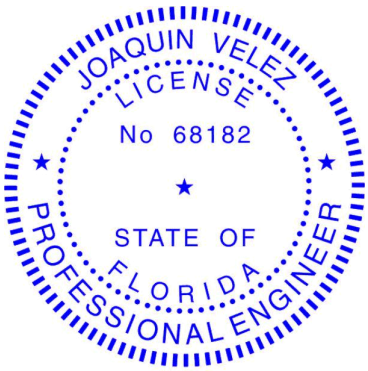
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T35158253	CJ01	10/2/24	15	T35158267	T03	10/2/24
2	T35158254	CJ03	10/2/24	16	T35158268	T04	10/2/24
3	T35158255	CJ03A	10/2/24	17	T35158269	T05	10/2/24
4	T35158256	CJ05	10/2/24	18	T35158270	T06	10/2/24
5	T35158257	CJ05A	10/2/24	19	T35158271	T07	10/2/24
6	T35158258	EJ01	10/2/24	20	T35158272	T08	10/2/24
7	T35158259	EJ02	10/2/24	21	T35158273	T09	10/2/24
8	T35158260	EJ03	10/2/24	22	T35158274	T10	10/2/24
9	T35158261	EJ04	10/2/24	23	T35158275	T11	10/2/24
10	T35158262	HJ05	10/2/24	24	T35158276	T12	10/2/24
11	T35158263	HJ08	10/2/24	25	T35158277	T13	10/2/24
12	T35158264	HJ10	10/2/24	26	T35158278	T14	10/2/24
13	T35158265	T01	10/2/24	27	T35158279	T15	10/2/24
14	T35158266	T02	10/2/24	28	T35158280	T16	10/2/24

This item has been digitally signed and sealed by Velez, Joaquin, 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: Velez, Joaquin
My license renewal date for the state of Florida is February 28, 2025.

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



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

October 2,2024

RE: 4190707 - LANDER RES.

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

Site Information:

Customer Info: STROUBE LANDER Project Name: Lander Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: 144 SW Beacon Way, N/A
City: Columbia Cty State: FL

No.	Seal#	Truss Name	Date
29	T35158281	T17	10/2/24
30	T35158282	T18	10/2/24
31	T35158283	T19	10/2/24
32	T35158284	T20	10/2/24
33	T35158285	T21	10/2/24
34	T35158286	T22	10/2/24
35	T35158287	T23	10/2/24
36	T35158288	T24	10/2/24
37	T35158289	T25	10/2/24
38	T35158290	T26	10/2/24
39	T35158291	T27	10/2/24
40	T35158292	T28	10/2/24
41	T35158293	T29	10/2/24
42	T35158294	T30	10/2/24
43	T35158295	T31	10/2/24
44	T35158296	T32	10/2/24
45	T35158297	T33	10/2/24
46	T35158298	T34	10/2/24
47	T35158299	T35	10/2/24
48	T35158300	T36	10/2/24
49	T35158301	V01	10/2/24
50	T35158302	V02	10/2/24
51	T35158303	V03	10/2/24
52	T35158304	V04	10/2/24
53	T35158305	V05	10/2/24
54	T35158306	V06	10/2/24

Job	Truss	Truss Type	Qty	Ply	LANDER RES.
4190707	CJ01	Jack-Open	20	1	T35158253
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:05 2024 Page 1
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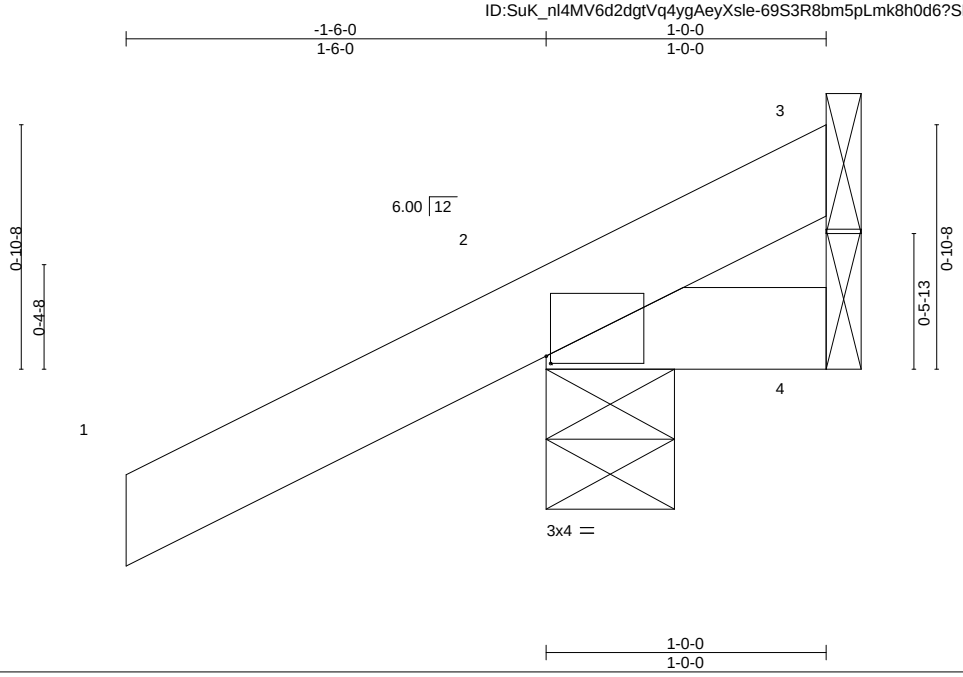

Plate Offsets (X,Y)-- [2:0-0-3,0-0-5]

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	0.21	Vert(LL)	0.00	7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.04	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=0-5-8, 4=Mechanical
Max Horz 2=48(LC 12)
Max Uplift 3=-7(LC 1), 2=-89(LC 12), 4=-22(LC 1)
Max Grav 3=8(LC 16), 2=198(LC 1), 4=19(LC 16)

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

NOTES-
1) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; 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
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 7 lb uplift at joint 3, 89 lb uplift at joint 2 and 22 lb uplift at joint 4.

This item has been digitally signed and sealed by Velez, Joaquin, 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.

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

October 2,2024

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	LANDER RES. T35158254
4190707	CJ03	Jack-Open	17	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:06 2024 Page 1
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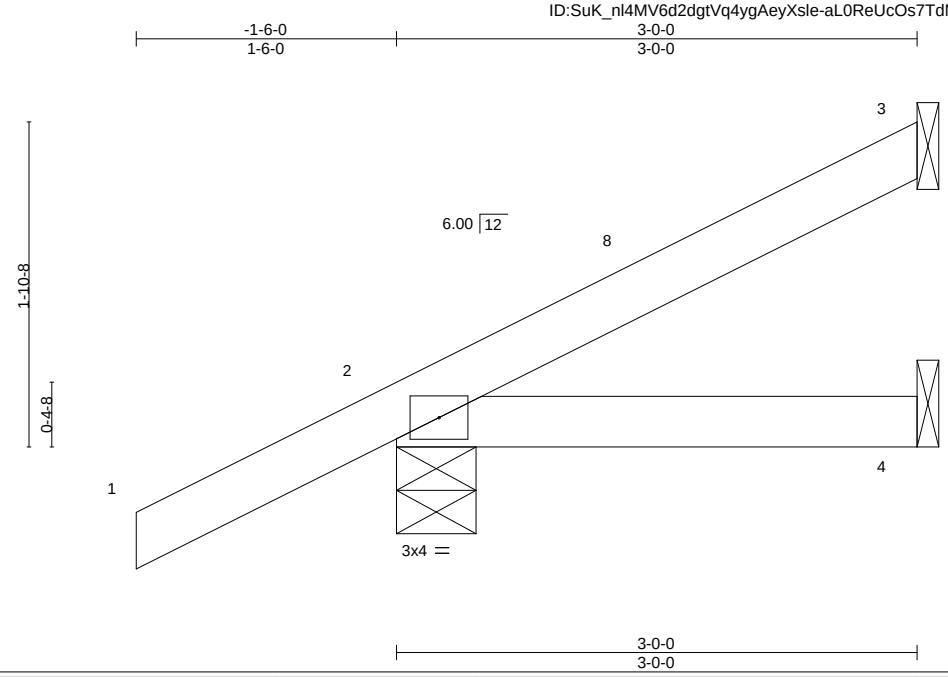

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.21	Vert(LL)	0.01	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.07	Vert(CT)	-0.01	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		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=0-5-8, 4=Mechanical
Max Horz 2=90(LC 12)
Max Uplift 3=-46(LC 12), 2=-80(LC 12), 4=-21(LC 9)
Max Grav 3=66(LC 1), 2=230(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=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; 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; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 3, 80 lb uplift at joint 2 and 21 lb uplift at joint 4.

This item has been digitally signed and sealed by Velez, Joaquin, 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.

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

October 2,2024

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	LANDER RES. T35158255
4190707	CJ03A	Jack-Open	3	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:06 2024 Page 1
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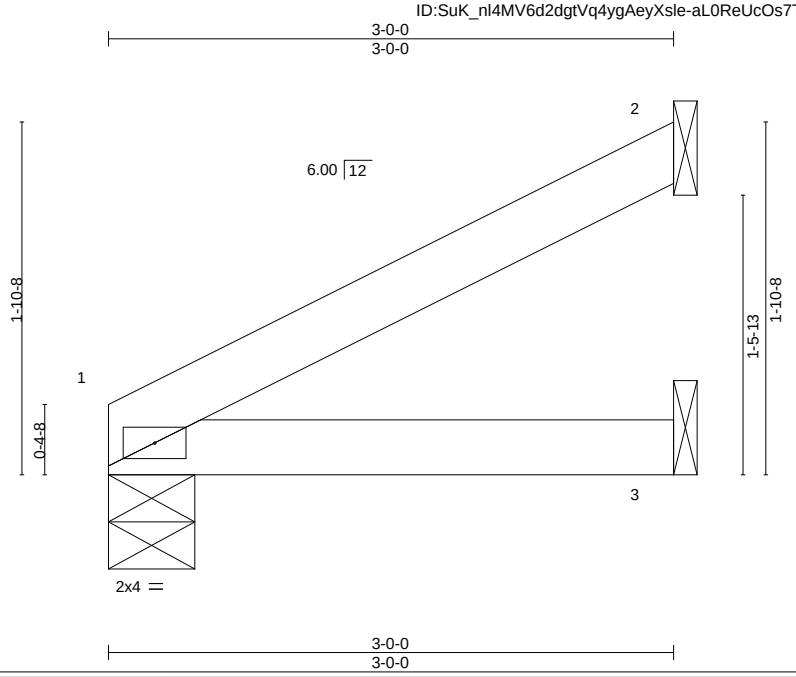

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.12	Vert(LL)	0.01	3-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	-0.01	3-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MP							Weight: 10 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) 1=0-5-8, 2=Mechanical, 3=Mechanical
Max Horz 1=62(LC 12)
Max Uplift 1=-36(LC 9), 2=-52(LC 12), 3=-24(LC 9)
Max Grav 1=118(LC 1), 2=76(LC 1), 3=54(LC 3)

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

NOTES-
1) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; 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
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 36 lb uplift at joint 1, 52 lb uplift at joint 2 and 24 lb uplift at joint 3.

This item has been digitally signed and sealed by Velez, Joaquin, 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.

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

October 2,2024

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

Job	Truss	Truss Type	Qty	Ply	LANDER RES. T35158256
4190707	CJ05	Jack-Open	12	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:06 2024 Page 1
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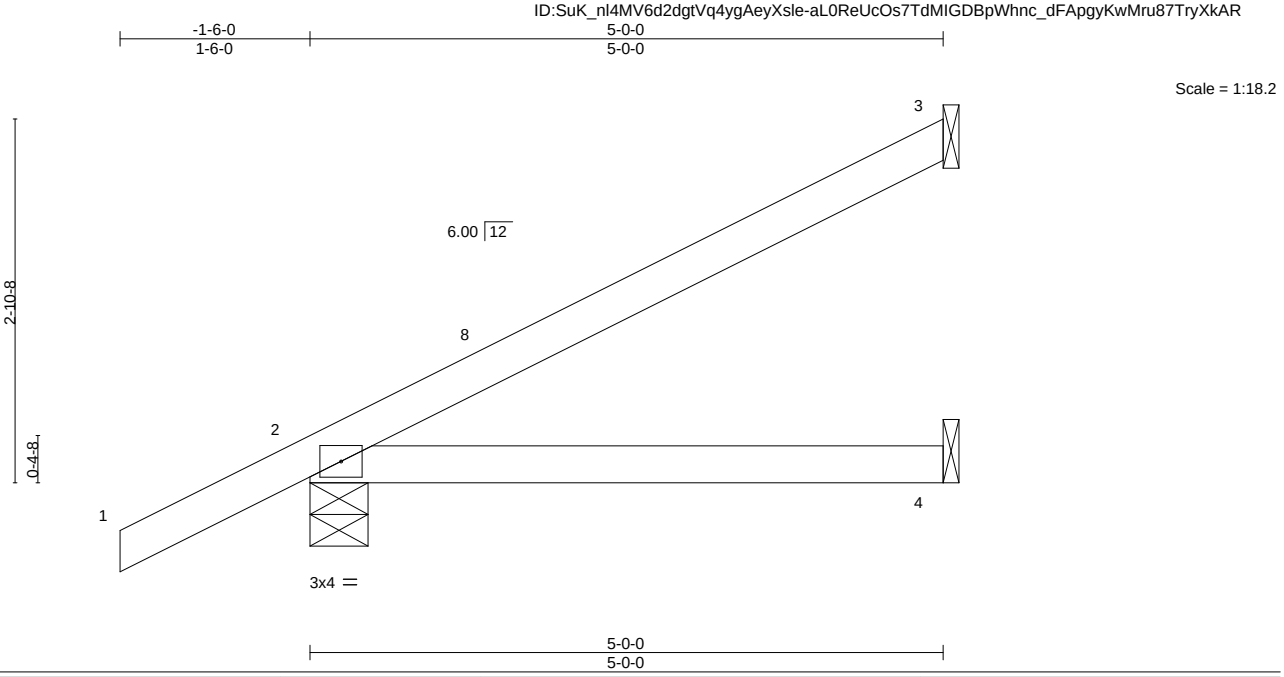

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.37	Vert(LL)	0.07	4-7	>906	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.27	Vert(CT)	-0.06	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MP							Weight: 18 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=0-5-8, 4=Mechanical
Max Horz 2=132(LC 12)
Max Uplift 3=-86(LC 12), 2=-92(LC 12), 4=-38(LC 9)
Max Grav 3=124(LC 1), 2=301(LC 1), 4=90(LC 3)

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

NOTES-
1) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; 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; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 86 lb uplift at joint 3, 92 lb uplift at joint 2 and 38 lb uplift at joint 4.

This item has been digitally signed and sealed by Velez, Joaquin, 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.

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

October 2,2024

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Job	Truss	Truss Type	Qty	Ply	LANDER RES. T35158257
4190707	CJ05A	Jack-Open	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:07 2024 Page 1
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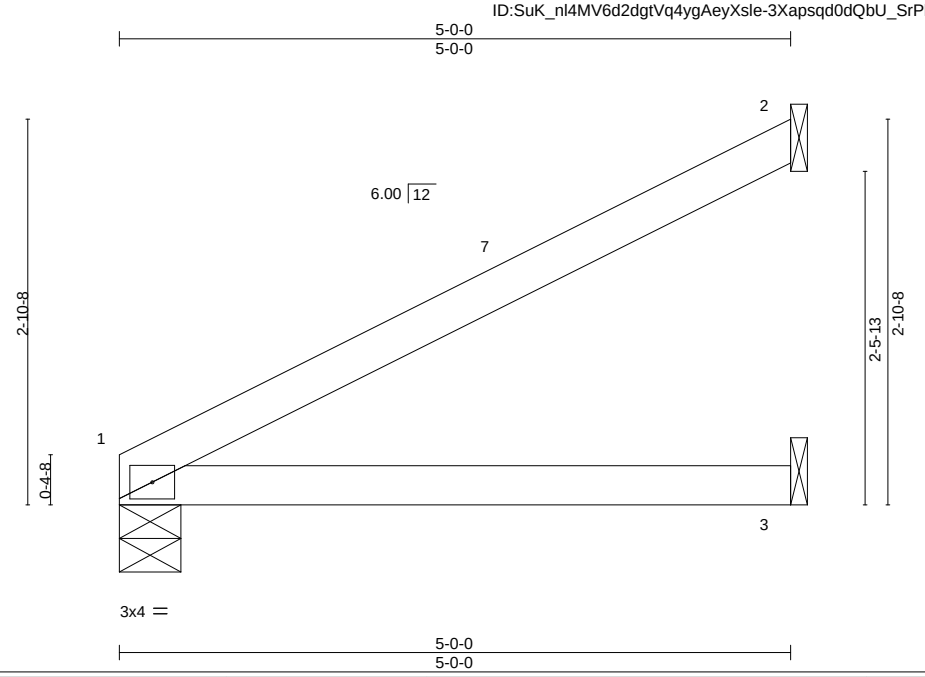

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.39	Vert(LL)	0.07	3-6	>804	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.30	Vert(CT)	-0.07	3-6	>911	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MP							Weight: 16 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) 1=0-5-8, 2=Mechanical, 3=Mechanical
Max Horz 1=105(LC 12)
Max Uplift 1=-62(LC 9), 2=-90(LC 12), 3=-40(LC 9)
Max Grav 1=198(LC 1), 2=131(LC 1), 3=92(LC 3)

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

NOTES-
1) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 4-11-4 zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 62 lb uplift at joint 1, 90 lb uplift at joint 2 and 40 lb uplift at joint 3.

This item has been digitally signed and sealed by Velez, Joaquin, 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.

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

October 2,2024

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Job	Truss	Truss Type	Qty	Ply	LANDER RES. T35158258
4190707	EJ01	Jack-Partial	31	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:07 2024 Page 1
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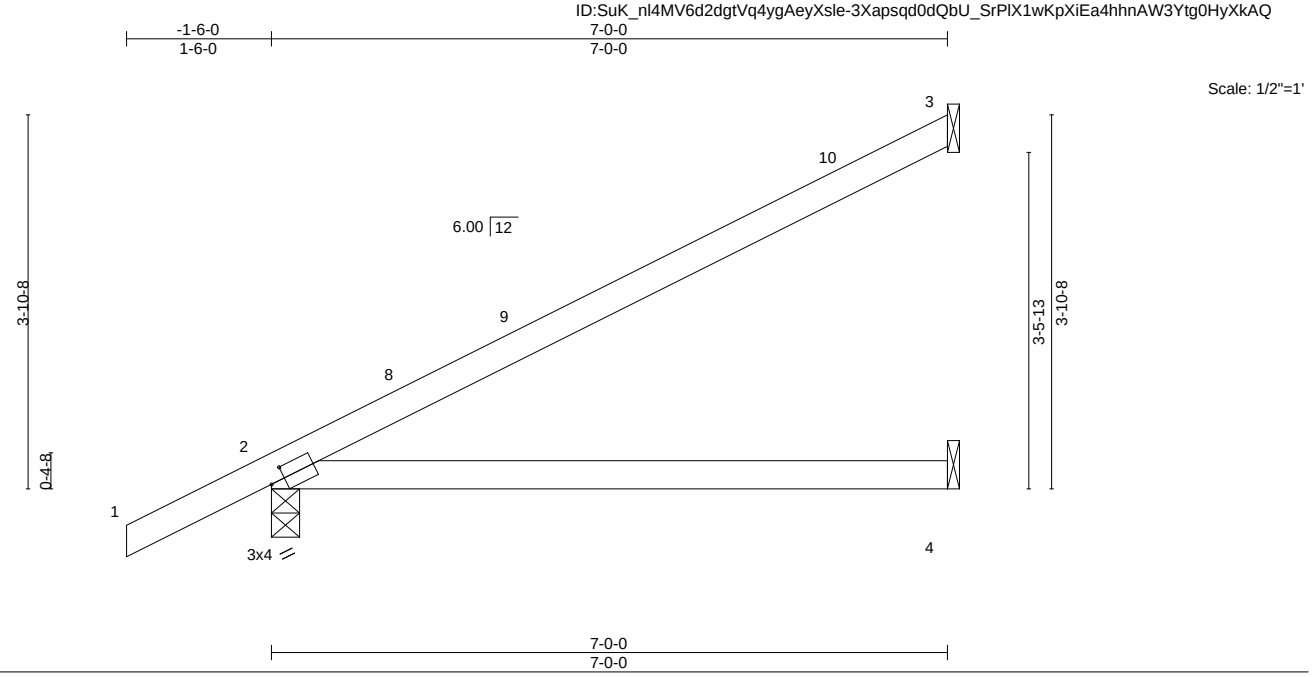

Plate Offsets (X,Y)-- [2:0-1-13,0-1-8]

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	0.74	Vert(LL)	0.23	4-7	>361	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.54	Vert(CT)	-0.23	4-7	>364	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	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=168(LC 12)
Max Uplift 3=-112(LC 12), 2=-109(LC 12), 4=-55(LC 9)
Max Grav 3=181(LC 1), 2=377(LC 1), 4=128(LC 3)

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

NOTES-
1) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; 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; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 112 lb uplift at joint 3, 109 lb uplift at joint 2 and 55 lb uplift at joint 4.

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Date:

October 2,2024

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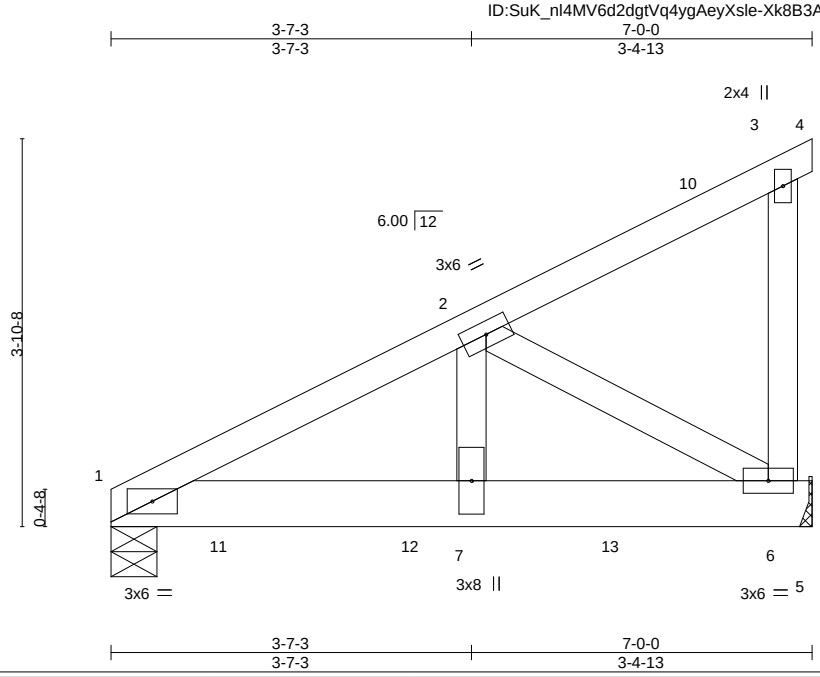
Job	Truss	Truss Type	Qty	Ply	LANDER RES. T35158259
4190707	EJ02	Jack-Open Girder	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:08 2024 Page 1
ID:SuK_nl4MV6d2dgtVq4ygAeyXsle-Xk8B3AeeOkjLccQbJEY9t130yzR_Q8GfICdEYkyXkAP



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	0.16	Vert(LL)	-0.02	7-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.47	Vert(CT)	-0.03	7-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.39	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 40 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 4-11-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-5-8, 6=Mechanical
Max Horz 1=141(LC 25)
Max Uplift 1=-289(LC 8), 6=-371(LC 8)
Max Grav 1=815(LC 1), 6=939(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1327/452
BOT CHORD 1-7=-501/1173, 6-7=-501/1173
WEBS 2-7=-376/1034, 2-6=-1351/578

NOTES-
1) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; 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 289 lb uplift at joint 1 and 371 lb uplift at joint 6.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 98 lb down and 56 lb up at 1-1-13, and 651 lb down and 311 lb up at 3-0-12, and 457 lb down and 153 lb up at 5-0-12 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=-60, 3-4=-20, 1-5=-20
Concentrated Loads (lb)
Vert: 11=-98(B) 12=-651(B) 13=-457(B)

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Date:
October 2,2024

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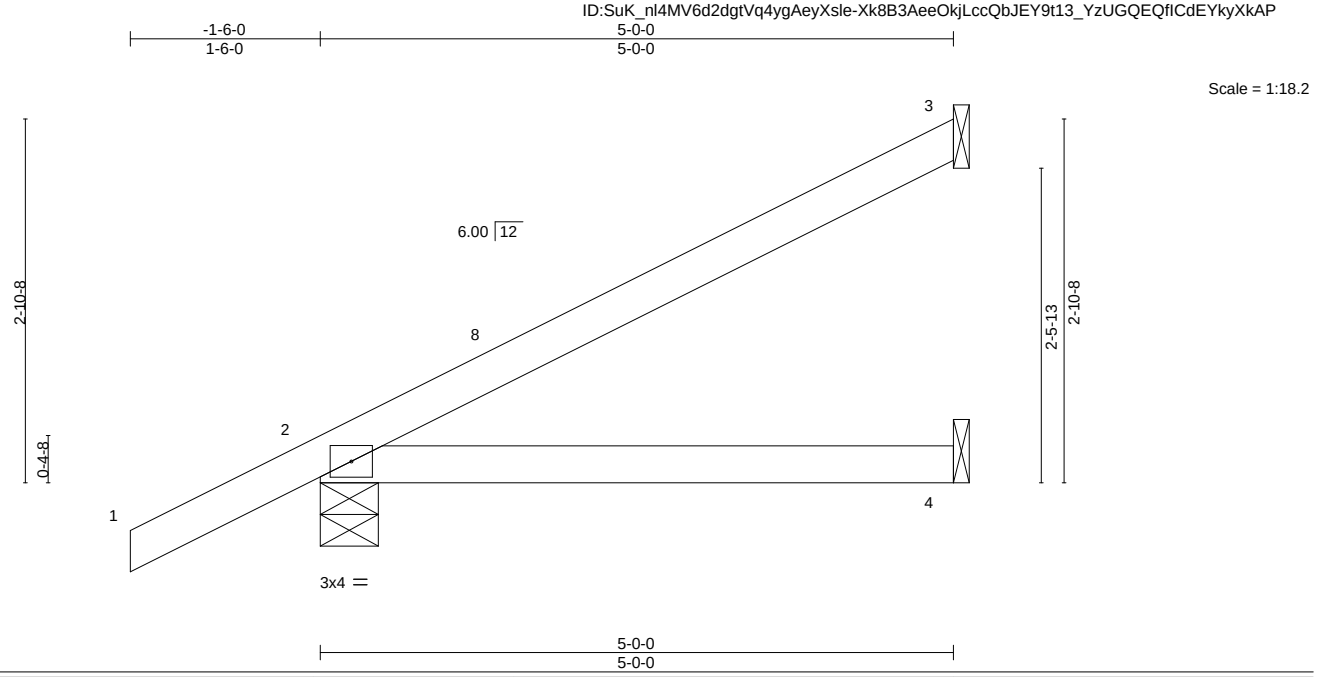
Job	Truss	Truss Type	Qty	Ply	LANDER RES. T35158260
4190707	EJ03	Jack-Partial	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:08 2024 Page 1
ID:SuK_nl4MV6d2dgtVq4ygAeyXsle-Xk8B3AeeOkjLccQbJEY9t13_YzUGQEQfICdEYkyXkAP



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)	0.04	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.26	Vert(CT)	-0.06	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: 18 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=0-5-8, 4=Mechanical
Max Horz 2=132(LC 12)
Max Uplift 3=-86(LC 12), 2=-92(LC 12), 4=-2(LC 12)
Max Grav 3=124(LC 1), 2=301(LC 1), 4=90(LC 3)

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

NOTES-
1) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; 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 86 lb uplift at joint 3, 92 lb uplift at joint 2 and 2 lb uplift at joint 4.

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October 2,2024

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Job	Truss	Truss Type	Qty	Ply	LANDER RES.
4190707	EJ04	Jack-Open Girder	1	1	T35158261
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:09 2024 Page 1
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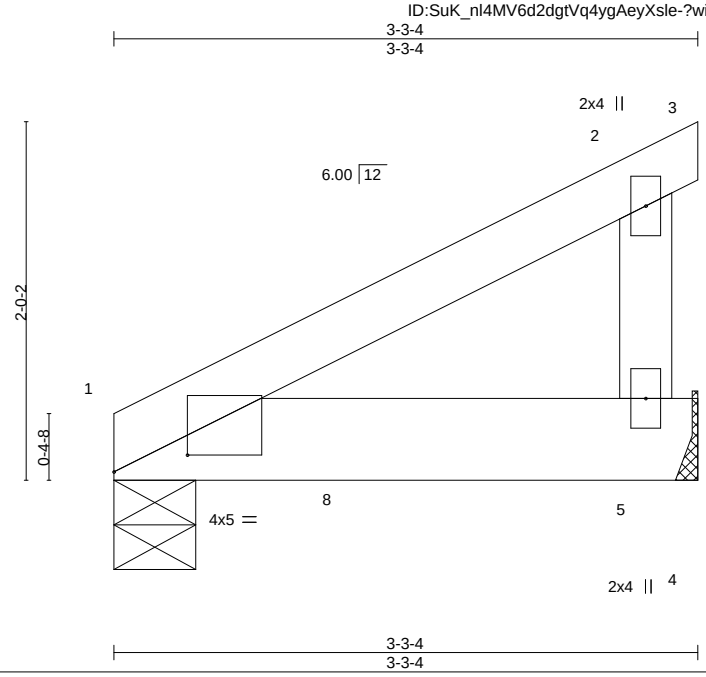

Plate Offsets (X,Y)-- [1:0-4-15,0-1-2]

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	0.26	Vert(LL)	-0.01	5-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.56	Vert(CT)	-0.02	5-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.02	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MP							Weight: 15 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 3-3-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-5-8, 5=Mechanical
Max Horz 1=68(LC 8)
Max Uplift 1=-147(LC 8), 5=-168(LC 8)
Max Grav 1=546(LC 2), 5=475(LC 2)

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

NOTES-
1) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; 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 147 lb uplift at joint 1 and 168 lb uplift at joint 5.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 801 lb down and 239 lb up at 1-4-0 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: 1-2=-60, 2-3=-20, 1-4=-20
Concentrated Loads (lb)
Vert: 8=-743(F)

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Date:

October 2,2024

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Job	Truss	Truss Type	Qty	Ply	LANDER RES. T35158262
4190707	HJ05	Diagonal Hip Girder	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:09 2024 Page 1
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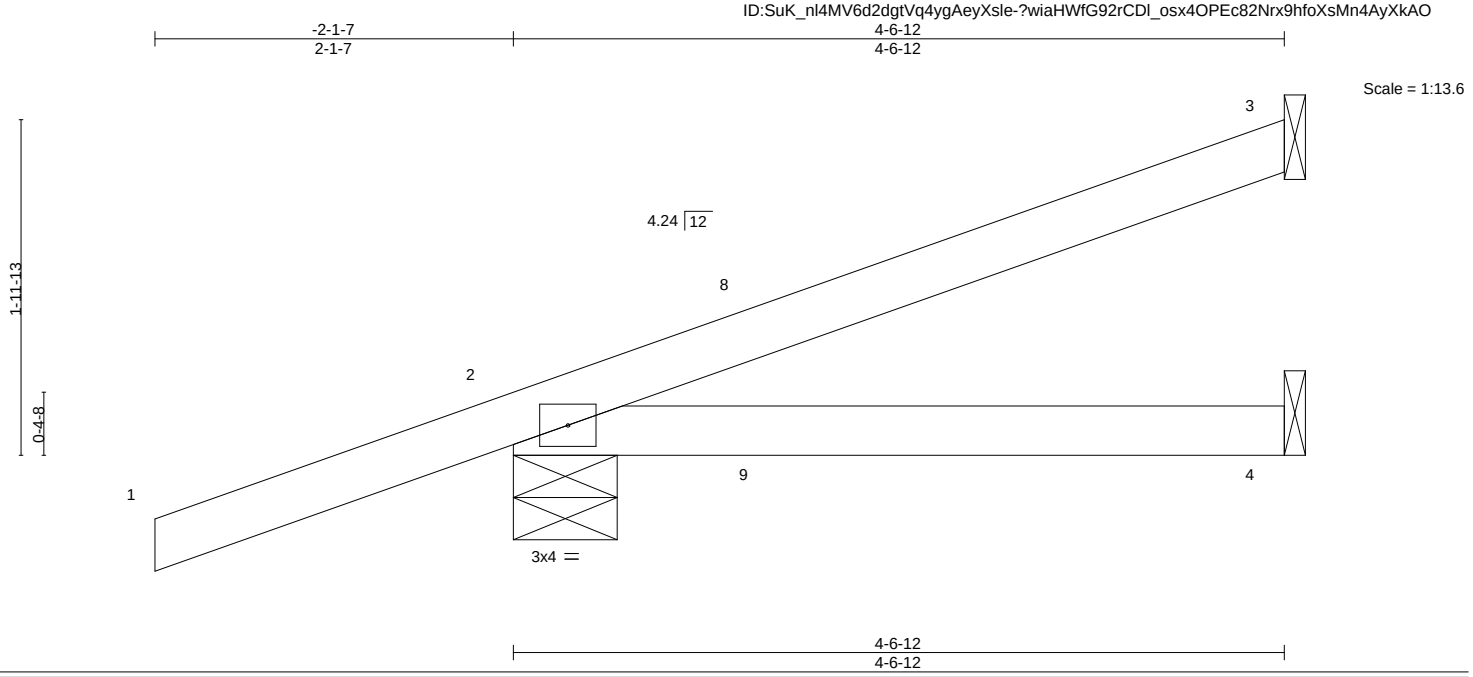

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.33	Vert(LL)	-0.03	4-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.23	Vert(CT)	0.03	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MP							Weight: 17 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 4-6-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-7-6, 4=Mechanical
Max Horz 2=110(LC 4)
Max Uplift 3=-109(LC 8), 2=-214(LC 4), 4=-58(LC 8)
Max Grav 3=121(LC 1), 2=258(LC 1), 4=95(LC 3)

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

NOTES-
1) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; 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 109 lb uplift at joint 3, 214 lb uplift at joint 2 and 58 lb uplift at joint 4.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 61 lb down and 92 lb up at 1-6-1, 61 lb down and 92 lb up at 1-6-1, and 33 lb down and 51 lb up at 4-6-0, and 33 lb down and 51 lb up at 4-6-0 on top chord, and 11 lb down and 50 lb up at 1-6-1, 11 lb down and 50 lb up at 1-6-1, and 22 lb down and 29 lb up at 4-6-0, and 22 lb down and 29 lb up at 4-6-0 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=-60, 4-5=-20
Concentrated Loads (lb)
Vert: 3=-36(F=-18, B=-18) 4=-26(F=-13, B=-13) 8=58(F=29, B=29) 9=62(F=31, B=31)

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Chesterfield, MO 63017
Date:

October 2,2024

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Job	Truss	Truss Type	Qty	Ply	LANDER RES. T35158263
4190707	HJ08	Diagonal Hip Girder	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:10 2024 Page 1
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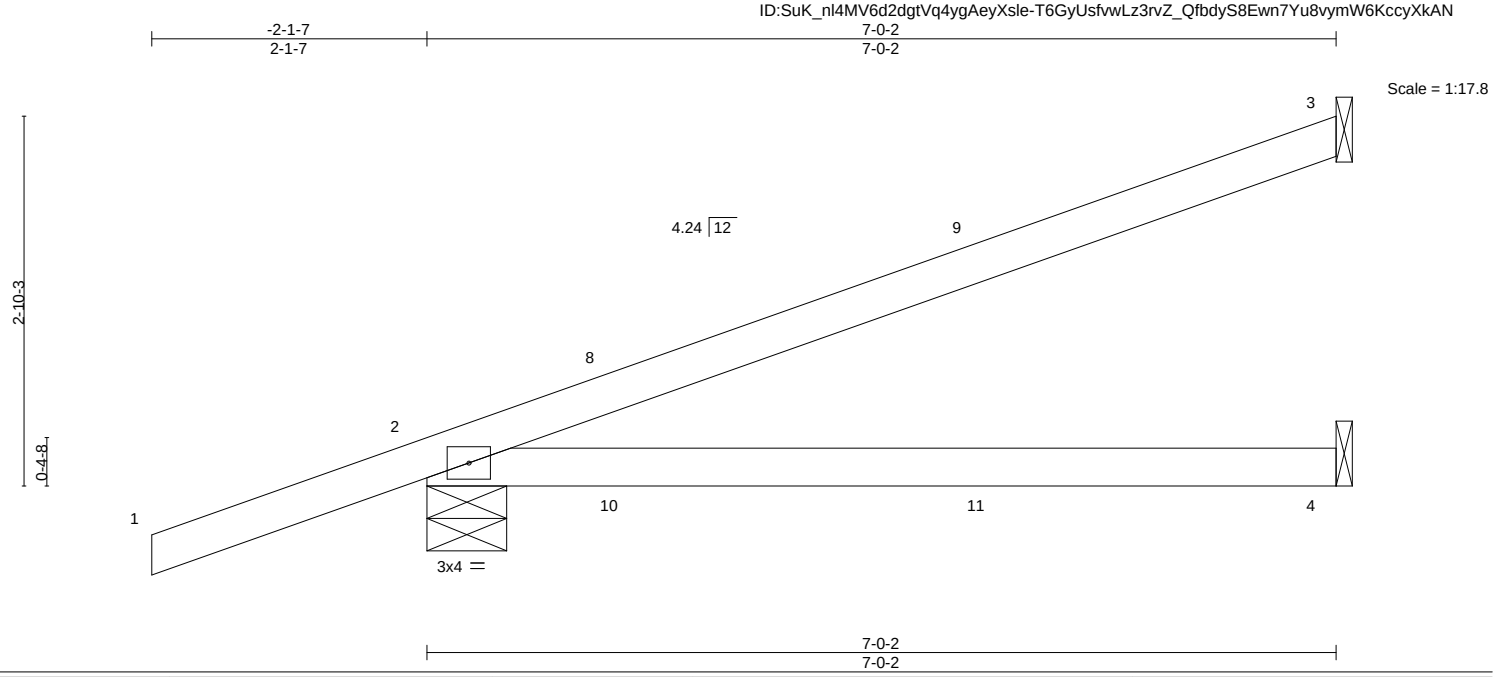

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.64	Vert(LL)	0.16	4-7	>525	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.46	Vert(CT)	-0.17	4-7	>505	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	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=0-7-6, 4=Mechanical
Max Horz 2=147(LC 4)
Max Uplift 3=-119(LC 8), 2=-261(LC 4), 4=-36(LC 8)
Max Grav 3=164(LC 1), 2=333(LC 1), 4=114(LC 3)

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

NOTES-
1) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; 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 119 lb uplift at joint 3, 261 lb uplift at joint 2 and 36 lb uplift at joint 4.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 61 lb down and 92 lb up at 1-6-1, 61 lb down and 92 lb up at 1-6-1, and 31 lb down and 50 lb up at 4-4-0, and 31 lb down and 50 lb up at 4-4-0 on top chord, and 11 lb down and 50 lb up at 1-6-1, 11 lb down and 50 lb up at 1-6-1, and 19 lb down and 29 lb up at 4-4-0, and 19 lb down and 29 lb up 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=-60, 4-5=-20
Concentrated Loads (lb)
Vert: 8=58(F=29, B=29) 10=62(F=31, B=31) 11=-6(F=-3, B=-3)

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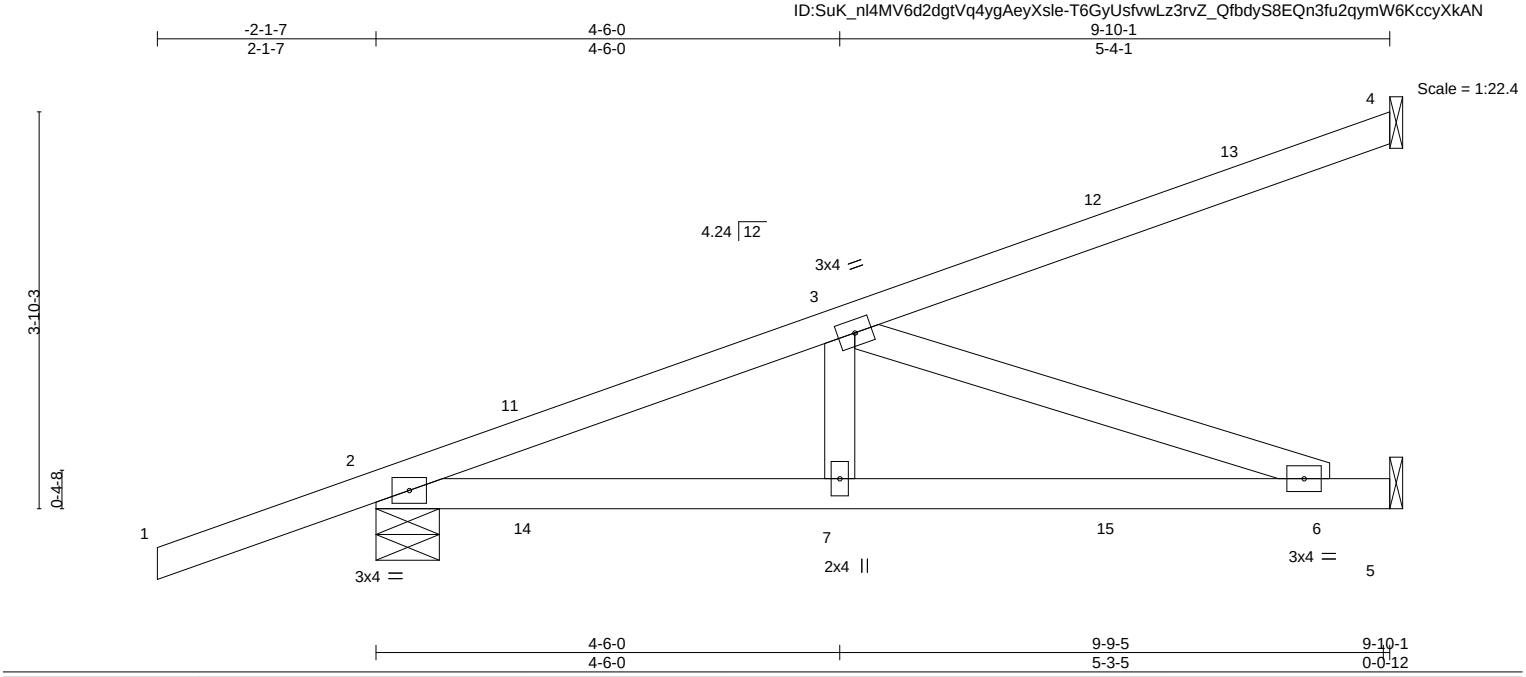
Job	Truss	Truss Type	Qty	Ply	LANDER RES. T35158264
4190707	HJ10	Diagonal Hip Girder	7	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:10 2024 Page 1
ID:SuK_nl4MV6d2dgtVq4ygAeyXsle-T6GyUsfvwLz3rvZ_QfbdyS8EQn3fu2qymW6KccyXkAN



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)	0.13	6-7	>937	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.71	Vert(CT)	-0.15	6-7	>758	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.39	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 43 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 7-3-4 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-7-6, 5=Mechanical
Max Horz 2=183(LC 4)
Max Uplift 4=-103(LC 4), 2=-395(LC 4), 5=-223(LC 4)
Max Grav 4=170(LC 1), 2=472(LC 1), 5=295(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-770/504
BOT CHORD 2-7=-566/709, 6-7=-566/709
WEBS 3-7=-138/270, 3-6=-752/600

NOTES-
1) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Refer to girder(s) for truss to truss connections.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 103 lb uplift at joint 4, 395 lb uplift at joint 2 and 223 lb uplift at joint 5.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 61 lb down and 92 lb up at 1-6-1, 61 lb down and 92 lb up at 1-6-1, 31 lb down and 50 lb up at 4-4-0, 31 lb down and 50 lb up at 4-4-0, and 59 lb down and 96 lb up at 7-1-15, and 59 lb down and 96 lb up at 7-1-15 on top chord, and 40 lb down and 50 lb up at 1-6-1, 40 lb down and 50 lb up at 1-6-1, 20 lb down and 29 lb up at 4-4-0, 20 lb down and 29 lb up at 4-4-0, and 43 lb down and 53 lb up at 7-1-15, and 43 lb down and 53 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=-60, 5-8=-20
Concentrated Loads (lb)
Vert: 7=-6(F=-3, B=-3) 11=58(F=29, B=29) 12=-79(F=-39, B=-39) 14=62(F=31, B=31) 15=-62(F=-31, B=-31)

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

October 2,2024

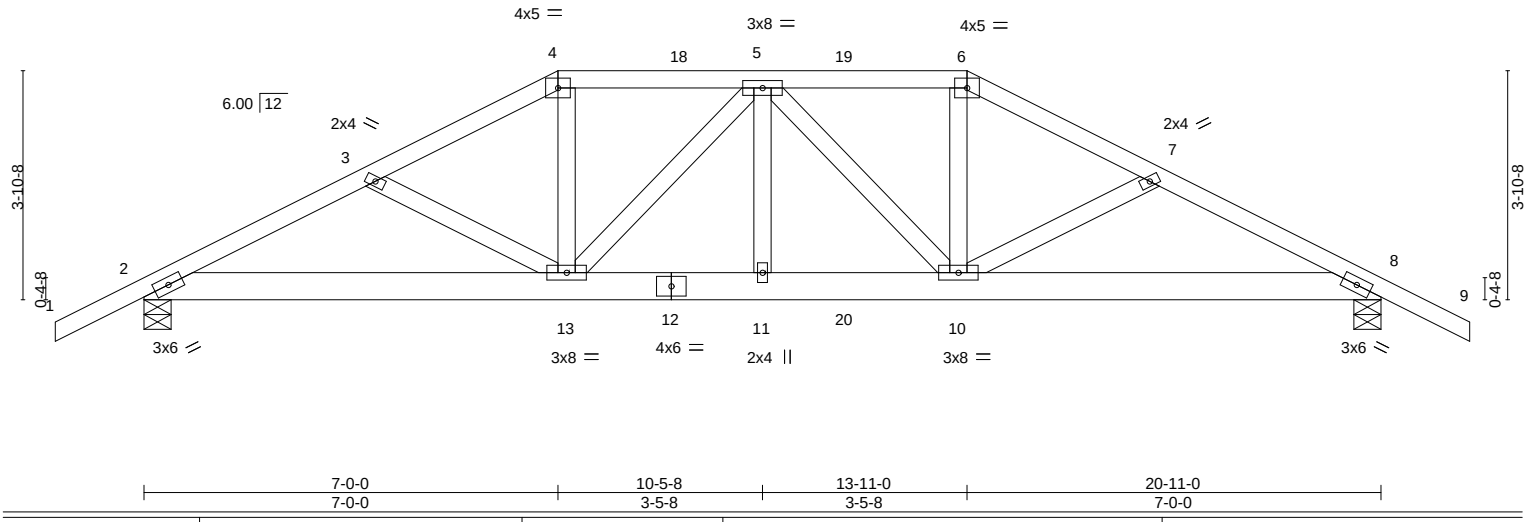
MiTek®
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	LANDER RES. T35158265
4190707	T01	Hip Girder	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:11 2024 Page 1
ID:SuK_nl4MV6d2dgtVq4ygAeyXsle-xJqKiCgXhf5wT38A_M6sUfhTJBQqdWL5_Aru93yXkAM

-1-6-0	3-10-15	7-0-0	10-5-8	13-11-0	17-0-1	20-11-0	22-5-0
1-6-0	3-10-15	3-1-1	3-5-8	3-5-8	3-1-1	3-10-15	1-6-0

Scale = 1:39.0



7-0-0	10-5-8	13-11-0	20-11-0
7-0-0	3-5-8	3-5-8	7-0-0

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	0.41	Vert(LL)	0.16	11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL 1.25	BC	0.65	Vert(CT)	-0.21	11	>999	180		
BCLL	0.0 *	Rep Stress Incr NO	WB	0.37	Horz(CT)	0.07	8	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 3-1-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-7-7 oc bracing.

REACTIONS. (size) 2=0-5-8, 8=0-5-8
Max Horz 2=78(LC 8)
Max Uplift 2=-912(LC 8), 8=-920(LC 9)
Max Grav 2=1692(LC 1), 8=1719(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3190/1827, 3-4=-3000/1757, 4-5=-2683/1624, 5-6=-2733/1639, 6-7=-3059/1776, 7-8=-3250/1846
BOT CHORD 2-13=-1629/2827, 11-13=-1732/3035, 10-11=-1732/3035, 8-10=-1567/2881
WEBS 4-13=-578/978, 5-13=-571/382, 5-10=-485/313, 6-10=-531/920

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 912 lb uplift at joint 2 and 920 lb uplift at joint 8.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 139 lb down and 120 lb up at 7-0-0, 121 lb down and 120 lb up at 9-0-12, 121 lb down and 111 lb up at 10-5-8, and 121 lb down and 120 lb up at 11-10-4, and 253 lb down and 232 lb up at 13-11-0 on top chord, and 334 lb down and 331 lb up at 7-0-0, 88 lb down and 75 lb up at 9-0-12, 88 lb down and 75 lb up at 10-5-8, and 88 lb down and 75 lb up at 11-10-4, and 334 lb down and 331 lb up at 13-10-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-60, 4-6=-60, 6-9=-60, 2-8=-20
Concentrated Loads (lb)
Vert: 4=-121(F) 6=-206(F) 12=-67(F) 13=-334(F) 11=-67(F) 5=-121(F) 10=-334(F) 18=-121(F) 19=-121(F) 20=-67(F)

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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

October 2,2024

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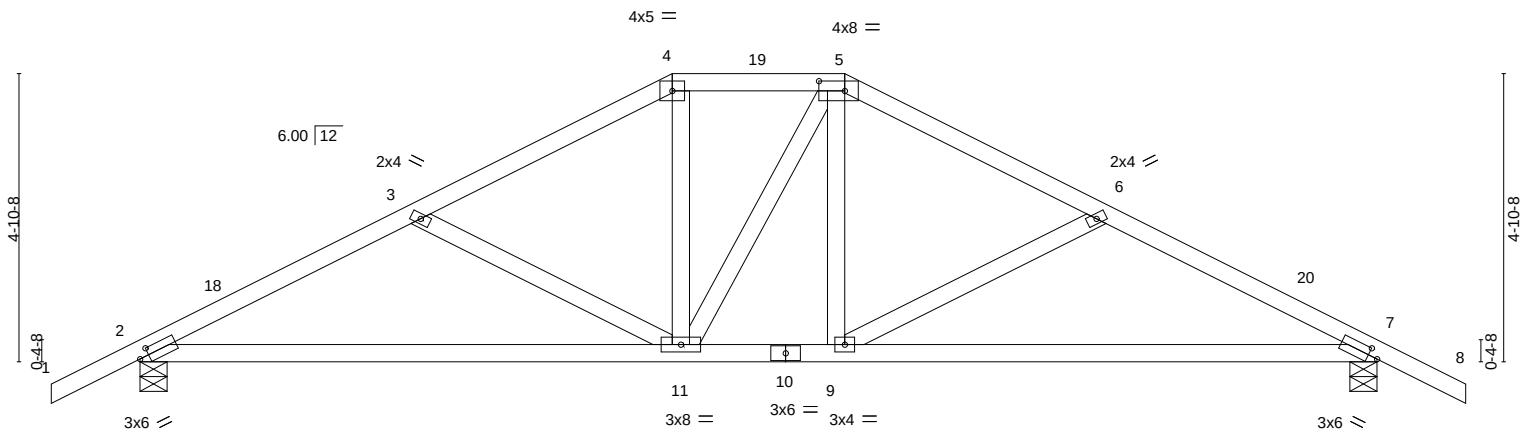
Job	Truss	Truss Type	Qty	Ply	LANDER RES. T35158266
4190707	T02	Hip	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:12 2024 Page 1
ID:SuK_nl4MV6d2dgtVq4ygAeyXsle-PVNivYh9SzDn4DjNY4d51tEexbmRM0fFDqbRhVyXkAL

-1-6-0 4-8-15 9-0-0 11-11-0 16-2-1 20-11-0 22-5-0
1-6-0 4-8-15 4-3-1 2-11-0 4-3-1 4-8-15 1-6-0

Scale = 1:39.0



9-0-0 11-11-0 20-11-0
9-0-0 2-11-0 9-0-0

Plate Offsets (X,Y)-- [2:0-1-15,0-1-8], [5:0-5-4,0-2-0], [7:0-1-15,0-1-8]

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	0.42	Vert(LL)	-0.15	9-17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.69	Vert(CT)	-0.32	9-17	>796	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.04	7	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 105 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 4-8-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-6-6 oc bracing.

REACTIONS. (size) 2=0-5-8, 7=0-5-8
Max Horz 2=-97(LC 13)
Max Uplift 2=-279(LC 12), 7=-279(LC 13)
Max Grav 2=927(LC 1), 7=927(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1427/431, 3-4=-1125/338, 4-5=-953/338, 5-6=-1124/338, 6-7=-1427/431
BOT CHORD 2-11=-381/1251, 9-11=-153/952, 7-9=-316/1251
WEBS 3-11=-348/224, 4-11=-67/314, 5-9=-71/313, 6-9=-349/224

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 9-0-0, Zone3 9-0-0 to 11-11-0, Zone2 11-11-0 to 16-4-0, Zone1 16-4-0 to 22-5-0 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.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 279 lb uplift at joint 2 and 279 lb uplift at joint 7.

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Joaquin Velez PE No.68182
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Chesterfield, MO 63017
Date:

October 2,2024

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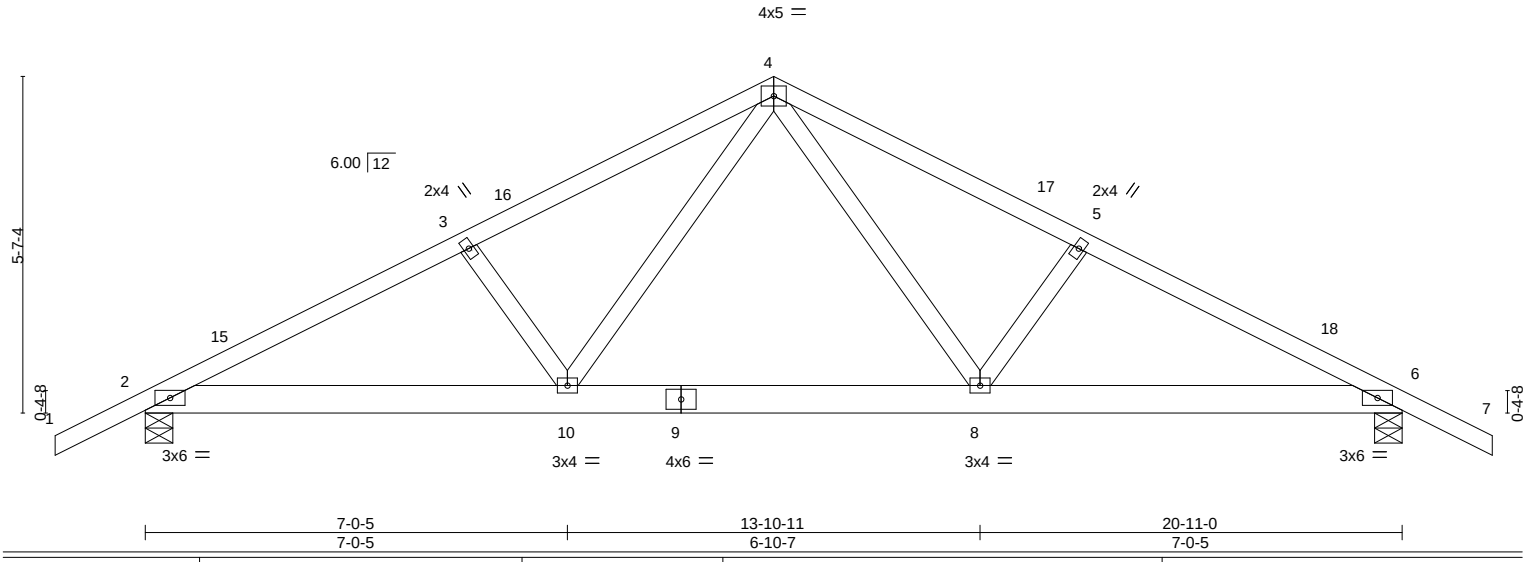
Job	Truss	Truss Type	Qty	Ply	LANDER RES. T35158267
4190707	T03	Common	3	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:12 2024 Page 1
ID:SuK_nl4MV6d2dgtVq4ygAeyXsle-PVNivYh9SzDn4DjNY4d51tEfpbpYM_tFDqbRhVyXkAL

-1-6-0 | 5-4-9 | 10-5-8 | 15-6-7 | 20-11-0 | 22-5-0
1-6-0 | 5-4-9 | 5-0-15 | 5-0-15 | 5-4-9 | 1-6-0

Scale = 1:38.3



7-0-5 | 13-10-11 | 20-11-0
7-0-5 | 6-10-7 | 7-0-5

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	0.36	Vert(LL)	-0.09	8-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.49	Vert(CT)	-0.18	8-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.29	Horz(CT)	0.03	6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 115 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 4-1-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-11-1 oc bracing.

REACTIONS. (size) 2=0-5-8, 6=0-5-8
Max Horz 2=-110(LC 17)
Max Uplift 2=-348(LC 12), 6=-348(LC 13)
Max Grav 2=1133(LC 1), 6=1133(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1964/705, 3-4=-1810/701, 4-5=-1810/701, 5-6=-1963/705
BOT CHORD 2-10=-528/1709, 8-10=-283/1138, 6-8=-551/1709
WEBS 4-8=-291/764, 5-8=-292/215, 4-10=-291/764, 3-10=-292/215

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; 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 10-5-8, Zone2 10-5-8 to 14-8-7, Zone1 14-8-7 to 22-5-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 348 lb uplift at joint 2 and 348 lb uplift at joint 6.
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=-60, 4-7=-60, 2-10=-20, 8-10=-80(F=-60), 6-8=-20

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Chesterfield, MO 63017
Date:

October 2,2024

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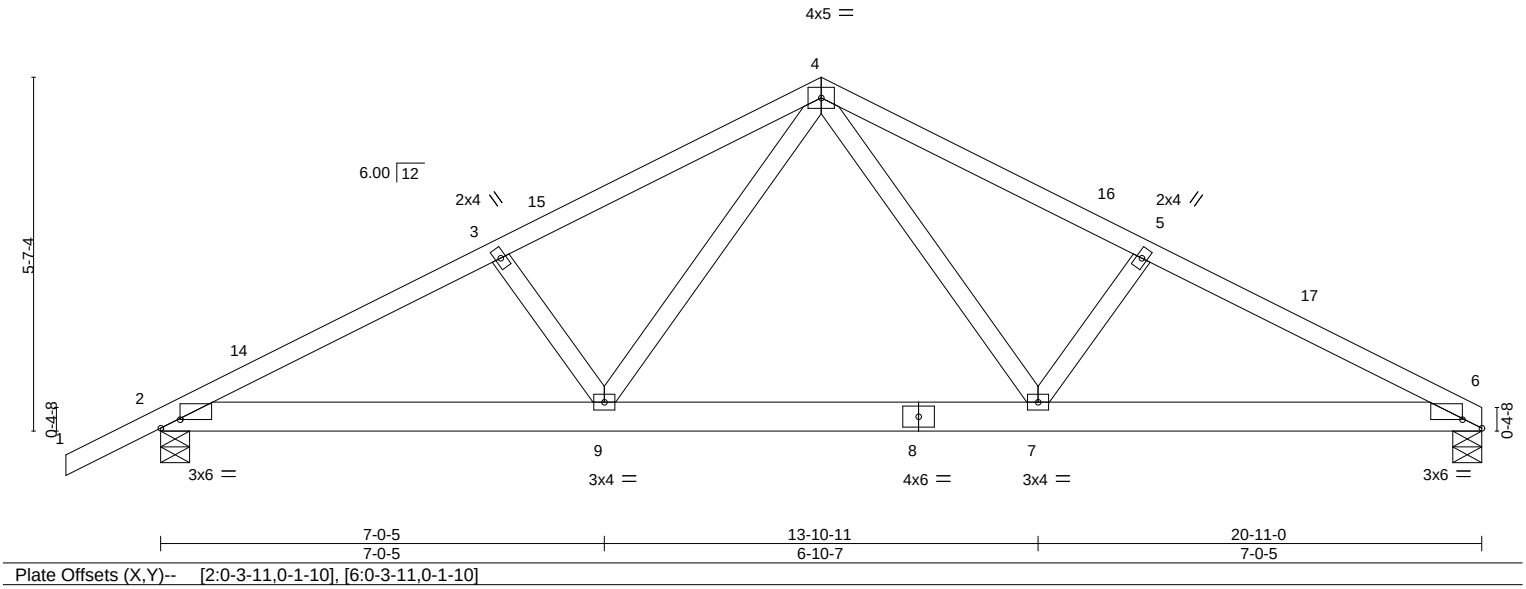
Job	Truss	Truss Type	Qty	Ply	LANDER RES. T35158268
4190707	T04	Common	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:13 2024 Page 1
ID:SuK_nl4MV6d2dgtVq4ygAeyXsle-thx46tinDGLeiNIZ5n8Ka4mqZ_7_5R0OSUK_DxyXkAK

-1-6-0 | 5-4-9 | 10-5-8 | 15-6-7 | 20-11-0
1-6-0 | 5-4-9 | 5-0-15 | 5-0-15 | 5-4-9

Scale = 1:36.5



7-0-5 | 13-10-11 | 20-11-0
7-0-5 | 6-10-7 | 7-0-5

Plate Offsets (X,Y)-- [2:0-3-11,0-1-10], [6:0-3-11,0-1-10]

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	0.36	Vert(LL)	-0.09	7-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.54	Vert(CT)	-0.18	7-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.30	Horz(CT)	0.03	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 113 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 4-0-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-5-5 oc bracing.

REACTIONS. (size) 6=0-5-8, 2=0-5-8
Max Horz 2=123(LC 12)
Max Uplift 6=-305(LC 13), 2=-349(LC 12)
Max Grav 6=1039(LC 1), 2=1136(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1970/722, 3-4=-1816/718, 4-5=-1830/739, 5-6=-1984/741
BOT CHORD 2-9=-585/1715, 7-9=-320/1145, 6-7=-583/1729
WEBS 4-7=-299/782, 5-7=-297/218, 4-9=-285/762, 3-9=-292/215

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; 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 10-5-8, Zone2 10-5-8 to 14-8-7, Zone1 14-8-7 to 20-11-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 305 lb uplift at joint 6 and 349 lb uplift at joint 2.
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=-60, 4-6=-60, 2-9=-20, 7-9=-80(F=-60), 6-7=-20

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Date:

October 2,2024

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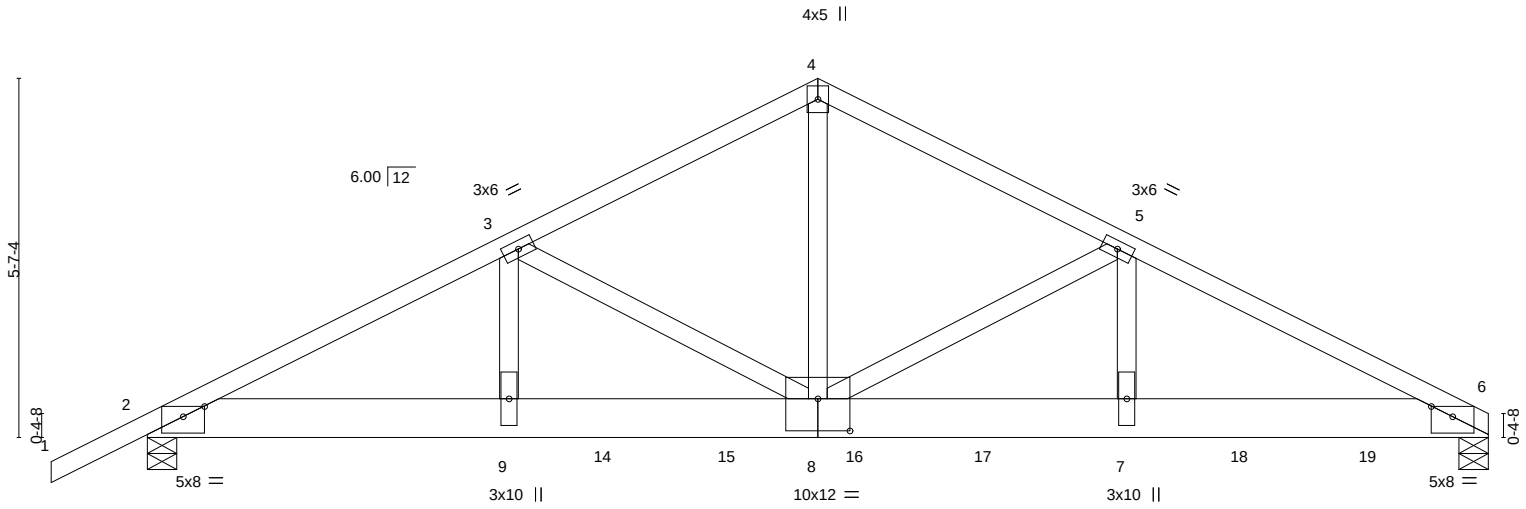
Job	Truss	Truss Type	Qty	Ply	LANDER RES. T35158269
4190707	T05	Common Girder	1	3	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:13 2024 Page 1
ID:SuK_nl4MV6d2dgtVq4ygAeyXsle-thx46tinDGLeiNIZ5n8Ka4moL_975G0OSUK_DxyXkAK

-1-6-0 | 5-7-11 | 10-5-8 | 15-3-5 | 20-11-0
1-6-0 | 5-7-11 | 4-9-13 | 4-9-13 | 5-7-11

Scale = 1:35.9



5-7-11 | 10-5-8 | 15-3-5 | 20-11-0
5-7-11 | 4-9-13 | 4-9-13 | 5-7-11

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

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	0.51	Vert(LL)	0.14	8-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL 1.25	BC	0.41	Vert(CT)	-0.25	8-9	>999	180		
BCLL	0.0 *	Rep Stress Incr NO	WB	1.00	Horz(CT)	0.05	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014	Matrix-MS							Weight: 393 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 5-9-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=0-5-8, 2=0-5-8
Max Horz 2=123(LC 29)
Max Uplift 6=-2248(LC 9), 2=-2220(LC 8)
Max Grav 6=6776(LC 2), 2=5511(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-12097/4943, 3-4=-9209/3469, 4-5=-9227/3471, 5-6=-12724/4325
BOT CHORD 2-9=-4437/10761, 8-9=-4437/10761, 7-8=-3796/11361, 6-7=-3796/11361
WEBS 4-8=-2963/7884, 5-8=-3875/1023, 5-7=-716/3325, 3-8=-2957/1649, 3-9=-1323/2484

NOTES-
1) 3-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 - 3 rows staggered at 0-4-0 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=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2248 lb uplift at joint 6 and 2220 lb uplift at joint 2.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 3120 lb down and 1794 lb up at 7-1-9, 1381 lb down and 500 lb up at 9-0-12, 1515 lb down and 401 lb up at 11-0-12, 1518 lb down and 398 lb up at 13-0-12, 1180 lb down and 327 lb up at 15-0-12, and 1139 lb down and 321 lb up at 17-0-12, and 1155 lb down and 315 lb up at 19-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

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Joaquin Velez PE No.68182
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Chesterfield, MO 63017
Date:
October 2,2024

Continued on page 2

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LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-4=-60, 4-6=-60, 2-6=-20

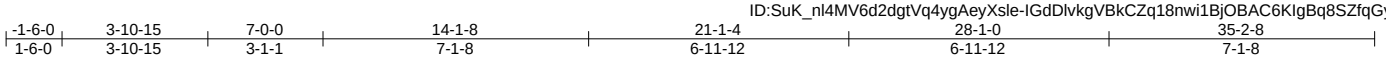
Concentrated Loads (lb)

Vert: 7=-1057(B) 14=-3120(B) 15=-1381(B) 16=-1381(B) 17=-1381(B) 18=-1057(B) 19=-1057(B)

Job	Truss	Truss Type	Qty	Ply	LANDER RES.
4190707	T06	Half Hip Girder	1	2	T35158270

Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:16 2024 Page 1
ID:SuK_nl4MV6d2dgtVq4ygAeyXsle-IGdDlvkgVBkCZq18nwi1BjOBAC6KlgBq8SZfqGyXkAH



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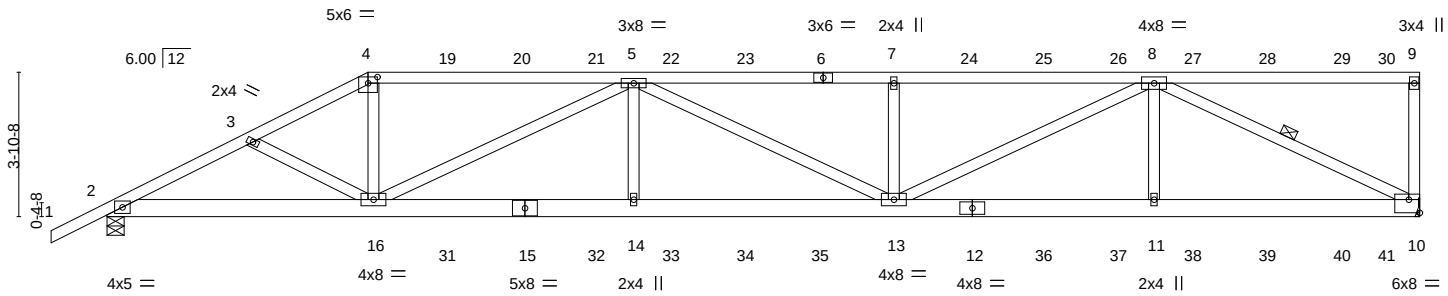

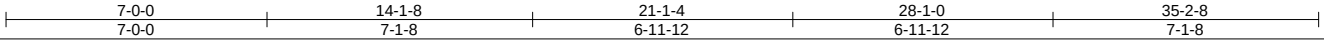

Plate Offsets (X,Y)-- [4:0-3-0,0-2-0], [10:Edge,0-4-4]

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)	0.39	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.76	Vert(CT)	-0.53	13-14	>790	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.78	Horz(CT)	0.11	10	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 422 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 7-8-13 oc bracing.
WEBS 1 Row at midpt 8-10

REACTIONS. (size) 10=Mechanical, 2=0-5-8
Max Horz 2=176(LC 29)
Max Uplift 10=-1774(LC 5), 2=-1524(LC 8)
Max Grav 10=3140(LC 1), 2=2839(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-5741/3185, 3-4=-5599/3154, 4-5=-5077/2908, 5-7=-7503/4215, 7-8=-7503/4215, 9-10=-406/247
BOT CHORD 2-16=-2933/5084, 14-16=-4278/7594, 13-14=-4278/7594, 11-13=-2904/5158, 10-11=-2904/5158
WEBS 4-16=-1060/1909, 5-16=-2869/1613, 5-14=-188/610, 7-13=-791/479, 8-13=-1487/2623, 8-11=-196/667, 8-10=-5652/3179

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: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; 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) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1774 lb uplift at joint 10 and 1524 lb uplift at joint 2.

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Date:

October 2,2024

Continued on page 2

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NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 139 lb down and 120 lb up at 7-0-0, 121 lb down and 120 lb up at 9-0-12, 121 lb down and 120 lb up at 11-0-12, 121 lb down and 120 lb up at 13-0-12, 121 lb down and 120 lb up at 15-0-12, 121 lb down and 120 lb up at 17-0-12, 121 lb down and 120 lb up at 19-0-12, 121 lb down and 111 lb up at 21-0-12, 121 lb down and 120 lb up at 23-0-12, 121 lb down and 120 lb up at 25-0-12, 121 lb down and 120 lb up at 27-0-12, 121 lb down and 120 lb up at 29-0-12, 121 lb down and 120 lb up at 31-0-12, and 121 lb down and 120 lb up at 33-0-12, and 121 lb down and 120 lb up at 33-6-8 on top chord, and 334 lb down and 331 lb up at 7-0-0, 88 lb down and 75 lb up at 9-0-12, 88 lb down and 75 lb up at 11-0-12, 88 lb down and 75 lb up at 13-0-12, 88 lb down and 75 lb up at 15-0-12, 88 lb down and 75 lb up at 17-0-12, 88 lb down and 75 lb up at 19-0-12, 88 lb down and 75 lb up at 21-0-12, 88 lb down and 75 lb up at 23-0-12, 88 lb down and 75 lb up at 25-0-12, 88 lb down and 75 lb up at 27-0-12, 88 lb down and 75 lb up at 29-0-12, 88 lb down and 75 lb up at 31-0-12, and 88 lb down and 75 lb up at 33-0-12, and 88 lb down and 75 lb up at 33-6-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

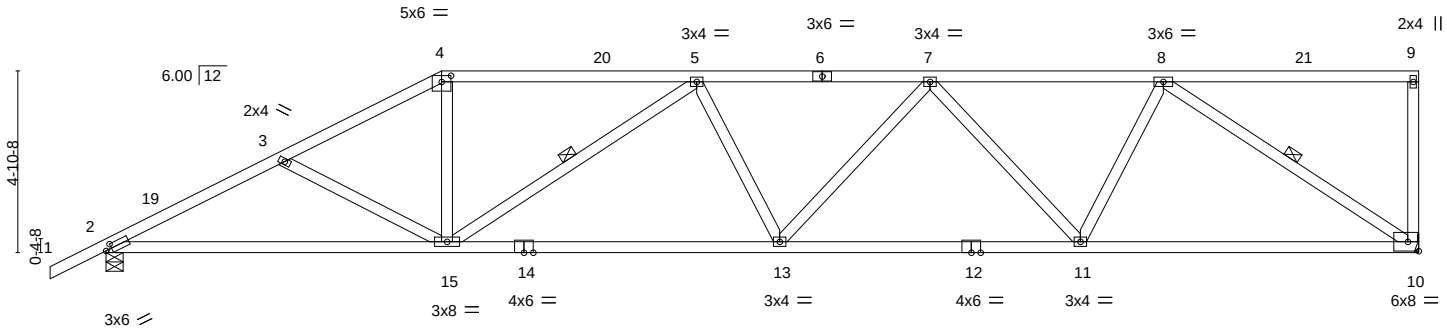
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-4=-60, 4-9=-60, 2-10=-20
   Concentrated Loads (lb)
   Vert: 4=-121(F) 6=-121(F) 15=-67(F) 16=-334(F) 7=-121(F) 13=-67(F) 12=-67(F) 19=-121(F) 20=-121(F) 21=-121(F) 22=-121(F) 23=-121(F) 24=-121(F) 25=-121(F) 26=-121(F) 27=-121(F) 28=-121(F) 29=-121(F) 30=-121(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) 41=-67(F)

Job	Truss	Truss Type	Qty	Ply	LANDER RES. T35158271
4190707	T07	Half Hip	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:16 2024 Page 1
ID:SuK_nl4MV6d2dgtVq4ygAeyXsle-IGdDlvkgVBkCZq18nwi1BjOGDC2gIhlq8SZfqGyXkAH

-1-6-0	4-9-8	9-0-0	15-10-2	22-1-4	28-4-5	35-2-8
1-6-0	4-9-8	4-2-8	6-10-2	6-3-2	6-3-2	6-10-3

Scale = 1:61.8



9-0-0	18-0-13	26-1-10	35-2-8
9-0-0	9-0-13	8-0-13	9-0-14

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

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	0.66	Vert(LL)	-0.20	10-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.99	Vert(CT)	-0.43	13-15	>984	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.13	10	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 184 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 2-11-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing, Except: 7-6-12 oc bracing: 10-11.
WEBS 1 Row at midpt 5-15, 8-10

REACTIONS. (size) 10=Mechanical, 2=0-5-8
Max Horz 2=219(LC 12)
Max Uplift 10=-480(LC 9), 2=-478(LC 12)
Max Grav 10=1401(LC 1), 2=1494(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2666/839, 3-4=-2386/737, 4-5=-2104/703, 5-7=-2684/882, 7-8=-2049/674
BOT CHORD 2-15=-879/2338, 13-15=-914/2695, 11-13=-864/2520, 10-11=-597/1702
WEBS 3-15=-291/204, 4-15=-163/726, 5-15=-800/350, 7-13=-121/276, 7-11=-712/313, 8-11=-199/795, 8-10=-2023/714

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 35-0-12 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) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 480 lb uplift at joint 10 and 478 lb uplift at joint 2.

This item has been digitally signed and sealed by Velez, Joaquin, 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:

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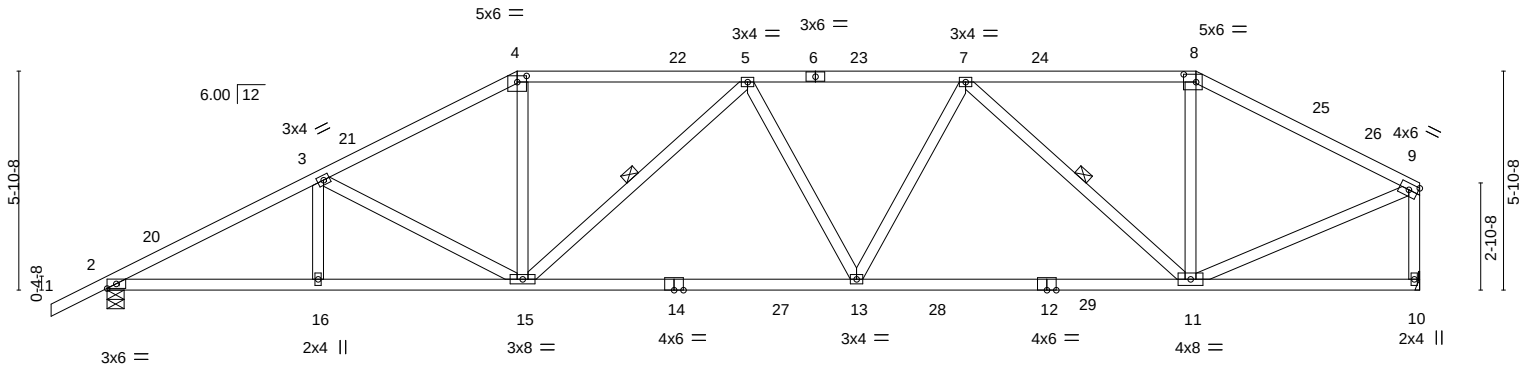
Job	Truss	Truss Type	Qty	Ply	LANDER RES. T35158272
4190707	T08	Hip	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:17 2024 Page 1
ID:SuK_nl4MV6d2dgtVq4ygAeyXsle-mSBbyFIIGVs3B_cKKdDGkwxSrcPI1Bk_N6lCMiyXkAG

-1-6-0 | 5-7-15 | 11-0-0 | 17-2-3 | 23-0-5 | 29-2-8 | 35-2-8
1-6-0 | 5-7-15 | 5-4-1 | 6-2-3 | 5-10-3 | 6-2-3 | 6-0-0

Scale = 1:61.8



5-7-15 | 11-0-0 | 20-1-4 | 29-2-8 | 35-2-8
5-7-15 | 5-4-1 | 9-1-4 | 9-1-4 | 6-0-0

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

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	0.54	Vert(LL)	-0.26	13-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.90	Vert(CT)	-0.48	13-15	>871	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.11	10	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.1 *Except*
2-14: 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-2-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-7-5 oc bracing.
WEBS 1 Row at midpt 5-15, 7-11

REACTIONS. (size) 2=0-5-8, 10=Mechanical
Max Horz 2=190(LC 12)
Max Uplift 2=-465(LC 12), 10=-381(LC 13)
Max Grav 2=1602(LC 2), 10=1535(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2898/788, 3-4=-2432/673, 4-5=-2138/648, 5-7=-2430/657, 7-8=-1424/416, 8-9=-1646/418, 9-10=-1456/395
BOT CHORD 2-16=-798/2544, 15-16=-798/2544, 13-15=-669/2445, 11-13=-601/2211
WEBS 3-15=-498/253, 4-15=-129/795, 5-15=-500/241, 7-13=-122/496, 7-11=-1103/374, 8-11=-63/466, 9-11=-353/1498

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; 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 29-2-8, Zone2 29-2-8 to 33-5-7, Zone1 33-5-7 to 35-0-12 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) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 465 lb uplift at joint 2 and 381 lb uplift at joint 10.

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Date:

October 2,2024

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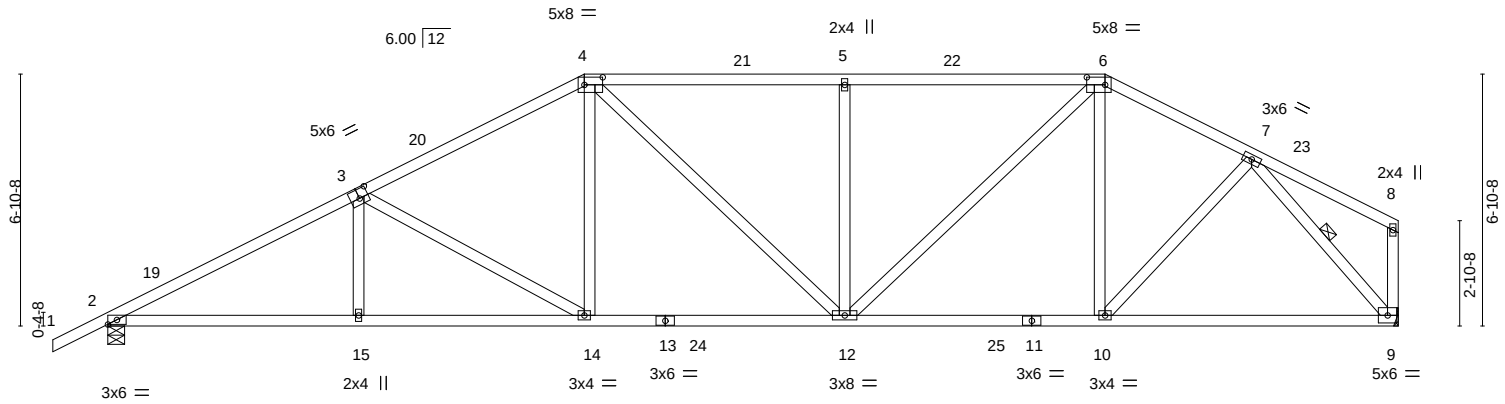
Job	Truss	Truss Type	Qty	Ply	LANDER RES. T35158273
4190707	T09	Hip	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:17 2024 Page 1
ID:SuK_nl4MV6d2dgtVq4ygAeyXsle-mSBbyFlIGVs3B_cKKdDGkwxQ9cRq1Ar_N6ICMiyXkAG

-1-6-0 | 6-10-2 | 13-0-0 | 20-1-4 | 27-2-8 | 31-2-8 | 35-2-8
1-6-0 | 6-10-2 | 6-1-14 | 7-1-4 | 7-1-4 | 4-0-0 | 4-0-0

Scale = 1:62.9



6-10-2 | 13-0-0 | 20-1-4 | 27-2-8 | 35-2-8
6-10-2 | 6-1-14 | 7-1-4 | 7-1-4 | 8-0-0

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

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	0.64	Vert(LL)	-0.18	12-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.81	Vert(CT)	-0.33	12-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.11	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 3-0-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-7-0 oc bracing.
WEBS 1 Row at midpt 7-9

REACTIONS. (size) 2=0-5-8, 9=Mechanical
Max Horz 2=209(LC 12)
Max Uplift 2=-462(LC 12), 9=-378(LC 13)
Max Grav 2=1604(LC 2), 9=1538(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2857/764, 3-4=-2255/626, 4-5=-2077/602, 5-6=-2077/602, 6-7=-1706/474
BOT CHORD 2-15=-782/2499, 14-15=-782/2502, 12-14=-517/1960, 10-12=-307/1485, 9-10=-283/1142
WEBS 3-15=0/263, 3-14=-643/305, 4-14=-104/579, 4-12=-164/305, 5-12=-493/281, 6-12=-287/848, 7-10=-123/555, 7-9=-1697/435

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; 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 13-0-0, Zone2 13-0-0 to 17-2-15, Zone1 17-2-15 to 27-2-8, Zone2 27-2-8 to 31-2-8, Zone1 31-2-8 to 35-0-12 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) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 462 lb uplift at joint 2 and 378 lb uplift at joint 9.

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Date:

October 2,2024

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Job	Truss	Truss Type	Qty	Ply	LANDER RES. T35158274
4190707	T10	Hip	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:18 2024 Page 1
ID:SuK_nl4MV6d2dgtVq4ygAeyXsle-EflzAblw1p_wo8AWuKkVH8UaT?oNmgC7bm2lu9yXkAF

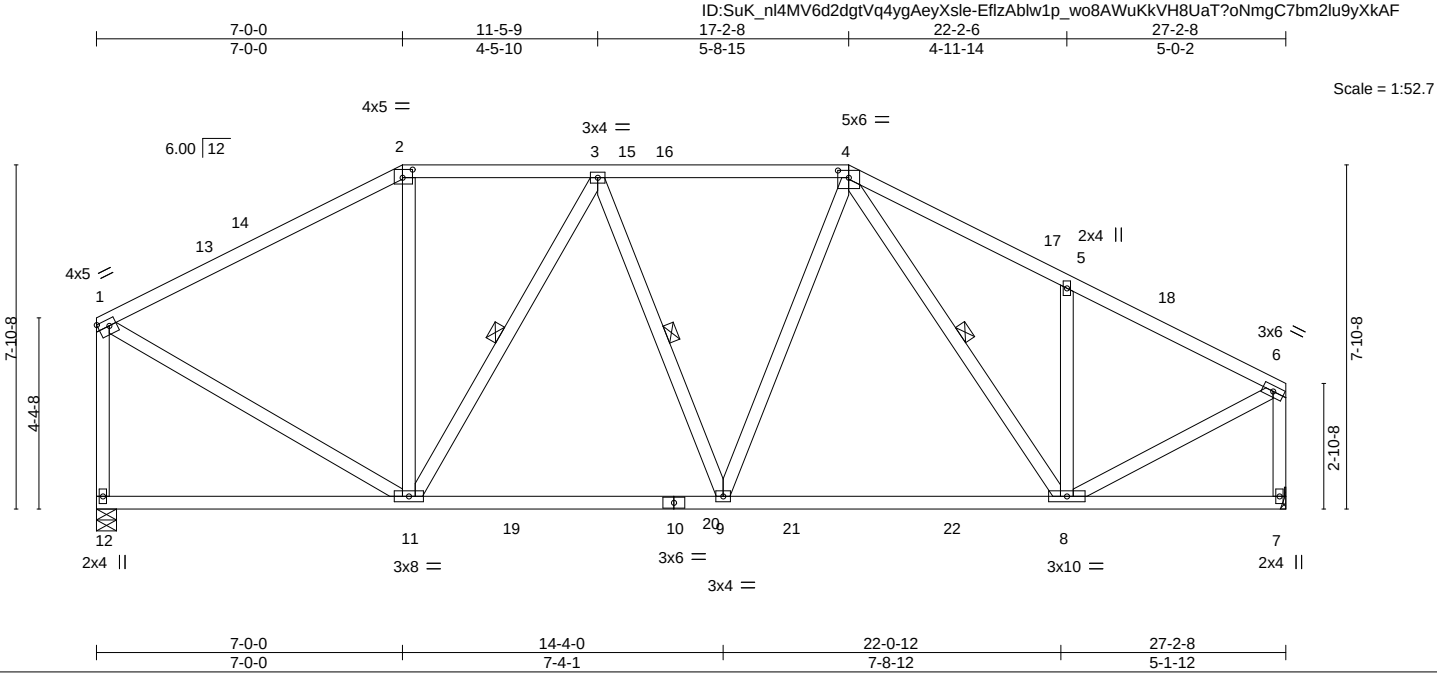

Plate Offsets (X,Y)-- [1:Edge,0-1-12], [2:0-2-12,0-2-4], [4:0-3-0,0-2-0]

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	0.74	Vert(LL)	-0.14	8-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.72	Vert(CT)	-0.23	8-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 180 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 3-9-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 3-11, 3-9, 4-8

REACTIONS. (size) 12=0-5-8, 7=Mechanical
Max Horz 12=-127(LC 13)
Max Uplift 12=-292(LC 12), 7=-307(LC 13)
Max Grav 12=1193(LC 2), 7=1200(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1037/293, 2-3=-861/309, 3-4=-1098/359, 4-5=-1190/436, 5-6=-1176/305, 1-12=-1087/326, 6-7=-1146/314
BOT CHORD 9-11=-225/1065, 8-9=-184/1004
WEBS 3-11=-459/185, 4-9=-58/328, 5-8=-331/249, 1-11=-196/953, 6-8=-236/1124

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; 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 7-0-0, Zone2 7-0-0 to 11-5-9, Zone1 11-5-9 to 17-2-8, Zone2 17-2-8 to 21-5-7, Zone1 21-5-7 to 27-0-12 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) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 292 lb uplift at joint 12 and 307 lb uplift at joint 7.

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Date:

October 2,2024

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Job	Truss	Truss Type	Qty	Ply	LANDER RES. T35158275
4190707	T11	Hip	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:19 2024 Page 1
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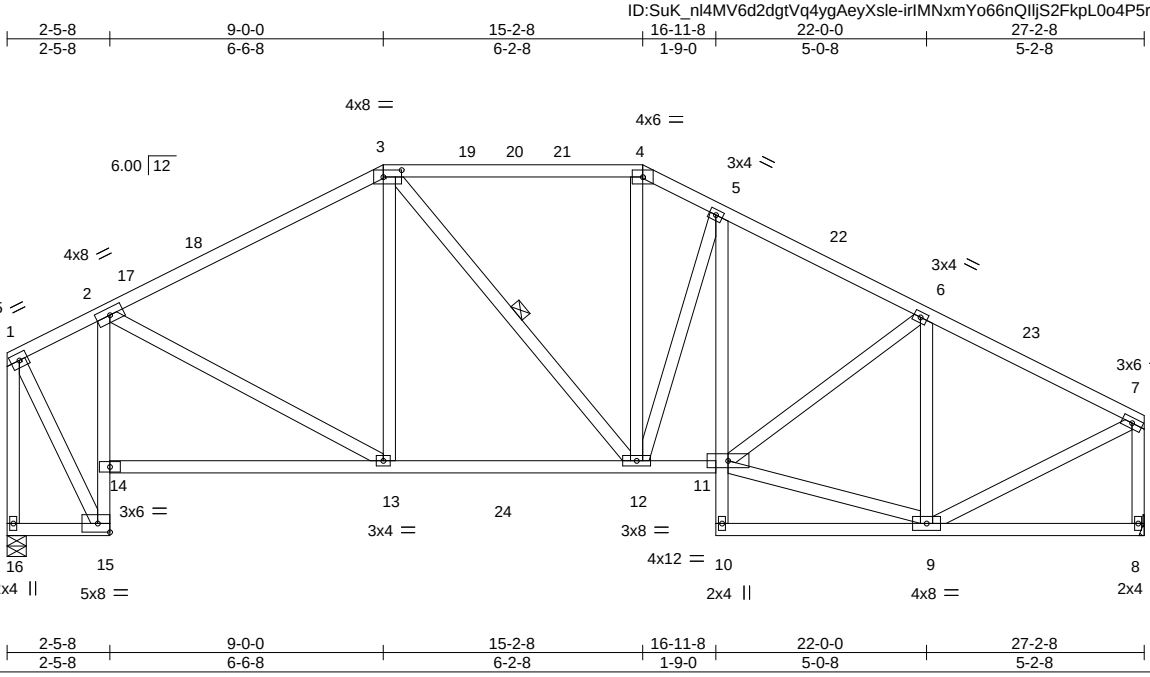

Plate Offsets (X,Y)-- [3:0-5-4,0-2-0]

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	0.55	Vert(LL)	-0.12	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.90	Vert(CT)	-0.25	13-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.24	8	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 204 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
2-15: 2x4 SP No.1, 5-10: 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-8-2 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 5-3-4 oc bracing: 14-15.
WEBS 1 Row at midpt 3-12

REACTIONS. (size) 16=0-5-8, 8=Mechanical
Max Horz 16=-145(LC 13)
Max Uplift 16=-286(LC 12), 8=-301(LC 13)
Max Grav 16=1169(LC 2), 8=1159(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-578/161, 2-3=-1235/360, 3-4=-1119/398, 4-5=-1259/425, 5-6=-1409/416, 6-7=-1115/301, 1-16=-1243/331, 7-8=-1084/311
BOT CHORD 14-15=-773/245, 2-14=-694/266, 13-14=-240/680, 12-13=-207/1035, 11-12=-232/1203
WEBS 2-13=-114/446, 4-12=-75/359, 5-12=-319/196, 9-11=-226/953, 6-11=-62/301, 6-9=-612/213, 1-15=-287/1042, 7-9=-230/1048

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; 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 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 15-2-8, Zone2 15-2-8 to 19-5-7, Zone1 19-5-7 to 27-0-12 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) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 286 lb uplift at joint 16 and 301 lb uplift at joint 8.

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Date:

October 2,2024

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Job	Truss	Truss Type	Qty	Ply	LANDER RES. T35158276
4190707	T12	Hip	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:19 2024 Page 1
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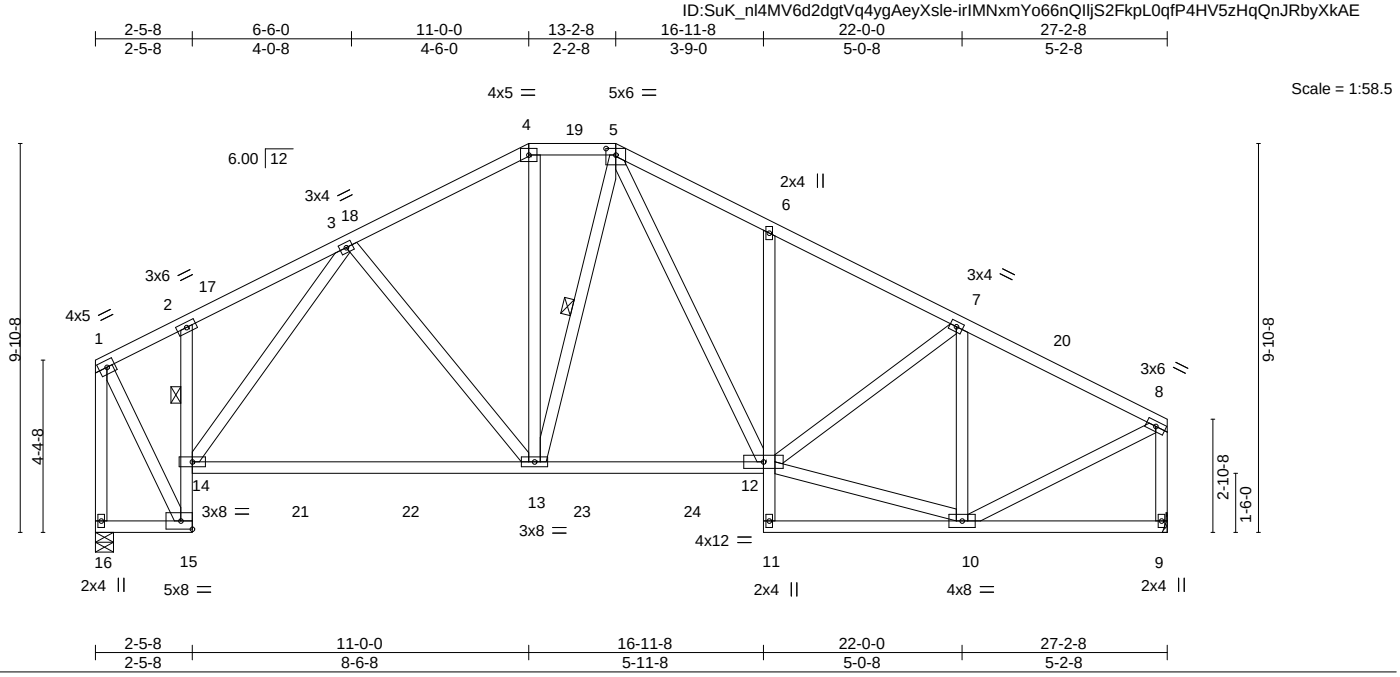

Plate Offsets (X,Y)-- [5:0-3-0,0-2-0]

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	0.39	Vert(LL)	-0.27	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	1.00	Vert(CT)	-0.50	13-14	>644	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.26	9	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 208 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
2-15: 2x4 SP No.1, 6-11: 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-9-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
5-7-1 oc bracing: 14-15
2-2-0 oc bracing: 13-14.
1 Row at midpt 2-14
WEBS 1 Row at midpt 5-13

REACTIONS. (size) 16=0-5-8, 9=Mechanical
Max Horz 16=-163(LC 13)
Max Uplift 16=-280(LC 12), 9=-295(LC 13)
Max Grav 16=1197(LC 2), 9=1175(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-595/158, 2-3=-779/278, 3-4=-1181/369, 4-5=-1010/363, 5-6=-1435/493, 6-7=-1439/406, 7-8=-1131/294, 1-16=-1278/325, 8-9=-1100/305
BOT CHORD 14-15=-741/216, 13-14=-272/983, 12-13=-157/1007, 6-12=-274/202
WEBS 3-14=-552/190, 4-13=-89/346, 5-12=-295/542, 10-12=-217/990, 7-12=-47/322, 7-10=-608/204, 1-15=-248/1014, 8-10=-219/1064

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; 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 11-0-0, Zone3 11-0-0 to 13-2-8, Zone2 13-2-8 to 17-2-1, Zone1 17-2-1 to 27-0-12 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) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 280 lb uplift at joint 16 and 295 lb uplift at joint 9.

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Date:

October 2,2024

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Job	Truss	Truss Type	Qty	Ply	LANDER RES. T35158277
4190707	T13	Roof Special	3	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:20 2024 Page 1
ID:SuK_nl4MV6d2dgtVq4ygAeyXsle-A1skaHnAZQEe2SKv0lmzMZZ?6pSsEZhQ34Xsz1yXkAD

2-5-8	6-6-0	12-1-4	16-11-8	22-0-0	26-11-12	32-2-8	33-8-8
2-5-8	4-0-8	5-7-4	4-10-4	5-0-8	4-11-12	5-2-12	1-6-0

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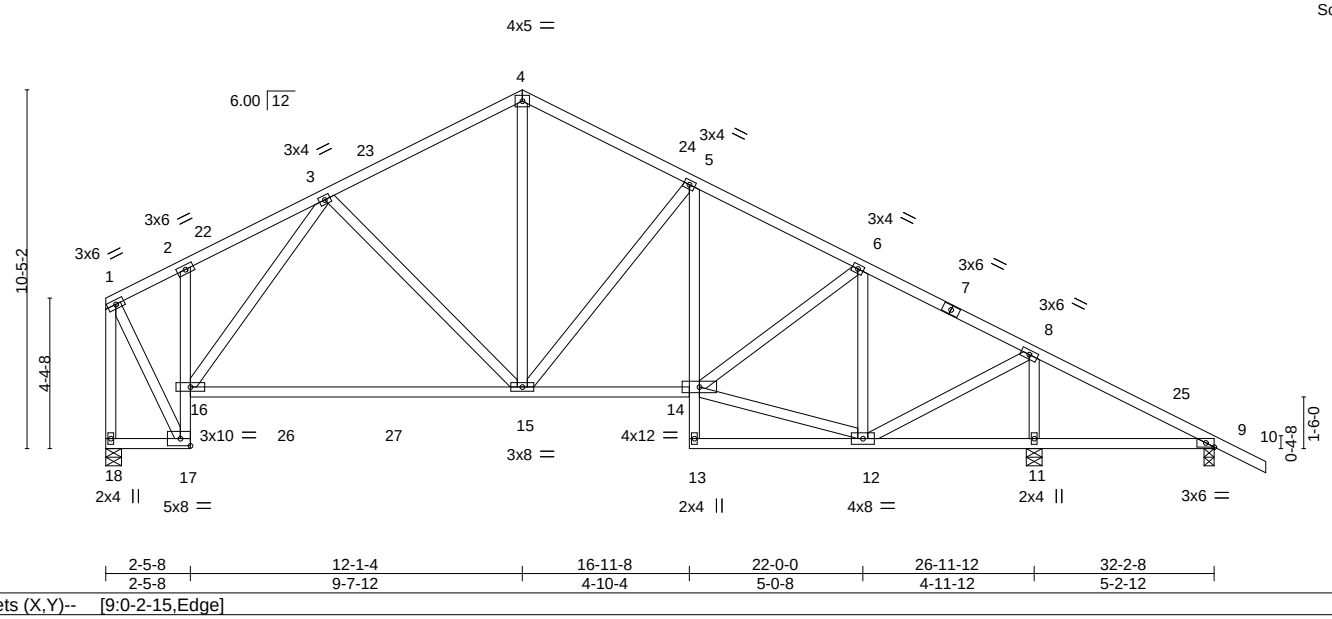

2-5-8	12-1-4	16-11-8	22-0-0	26-11-12	32-2-8
2-5-8	9-7-12	4-10-4	5-0-8	4-11-12	5-2-12

Plate Offsets (X,Y)-- [9:0-2-15,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	0.41	Vert(LL)	-0.36	15-16	>903	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.78	Vert(CT)	-0.63	15-16	>511	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.22	11	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*
2-17: 2x4 SP 2700F 2.2E or 2x4 SP 2850F 2.0E or 2x4 SP M 31
14-16: 2x4 SP No.1, 5-13: 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-2-7 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 18=0-5-8, 9=0-3-8, 11=0-5-8
Max Horz 18=-310(LC 13)
Max Uplift 18=-270(LC 12), 9=-133(LC 8), 11=-340(LC 13)
Max Grav 18=1122(LC 2), 9=120(LC 26), 11=1695(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-555/167, 2-3=-743/238, 3-4=-1040/370, 4-5=-1031/362, 5-6=-1223/385, 6-8=-830/324, 8-9=-91/604, 1-18=-1191/341
BOT CHORD 17-18=-77/308, 16-17=-685/254, 15-16=-186/969, 14-15=-109/1048, 11-12=-459/119, 9-11=-459/119
WEBS 3-16=-493/235, 4-15=-162/620, 5-15=-361/277, 12-14=-98/674, 6-14=-45/450, 6-12=-680/167, 8-12=-202/1296, 8-11=-1482/358, 1-17=-264/937

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; 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 12-1-4, Zone2 12-1-4 to 16-4-3, Zone1 16-4-3 to 33-8-8 zone; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 270 lb uplift at joint 18, 133 lb uplift at joint 9 and 340 lb uplift at joint 11.

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Date:

October 2,2024

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Job	Truss	Truss Type	Qty	Ply	LANDER RES. T35158278
4190707	T14	Roof Special	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:20 2024 Page 1
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2-6-0	5-4-8	12-1-4	18-11-12	25-1-5	32-2-8	33-8-8
2-6-0	2-10-8	6-8-12	6-10-8	6-1-9	7-1-3	1-6-0

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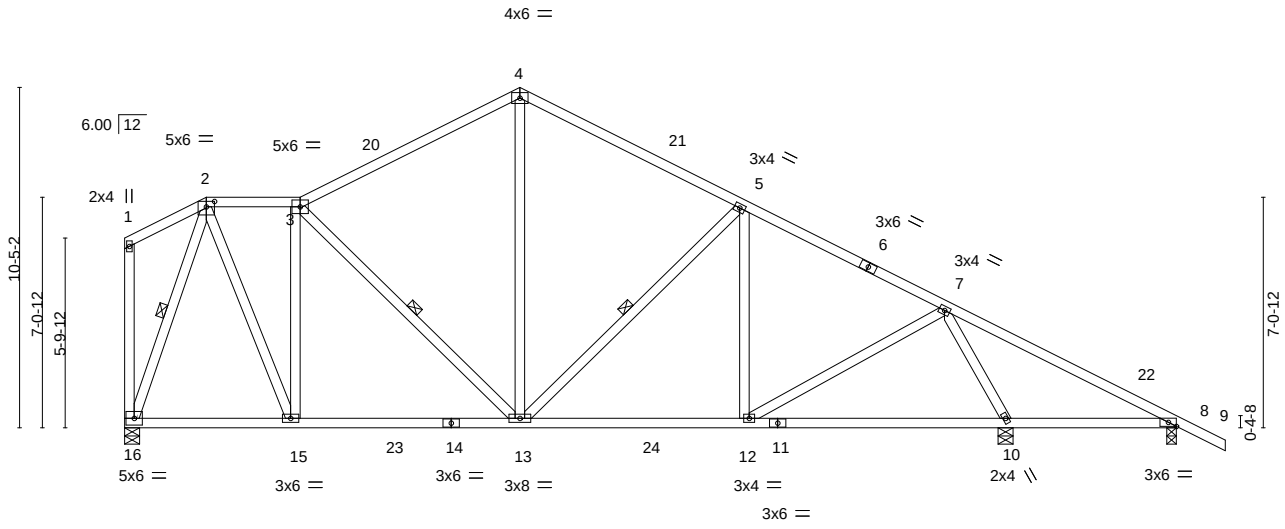

5-4-8	12-1-4	18-11-12	26-11-12	32-2-8
5-4-8	6-8-12	6-10-8	8-0-0	5-2-12

Plate Offsets (X,Y)-- [2:0-3-0,0-2-0], [8:0-2-15,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	0.65	Vert(LL)	-0.08	10-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.56	Vert(CT)	-0.16	10-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.03	10	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 210 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 4-8-2 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 8-10.
WEBS	1 Row at midpt 3-13, 5-13, 2-16

REACTIONS. (size) 10=0-5-8, 16=0-5-8, 8=0-3-8
Max Horz 16=-344(LC 13)
Max Uplift 10=-349(LC 13), 16=-288(LC 12), 8=-118(LC 13)
Max Grav 10=1583(LC 2), 16=1162(LC 2), 8=211(LC 26)

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

TOP CHORD	2-3=-742/286, 3-4=-941/370, 4-5=-950/360, 5-7=-1167/354, 7-8=-46/374
BOT CHORD	15-16=-23/505, 13-15=-109/822, 12-13=-116/982, 10-12=-82/440, 8-10=-262/136
WEBS	2-15=-272/1007, 3-15=-691/293, 4-13=-104/438, 5-13=-332/256, 7-12=-46/641, 7-10=-1458/405, 2-16=-1093/362

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-1-12 to 5-4-8, Zone1 5-4-8 to 12-1-4, Zone2 12-1-4 to 16-4-3, Zone1 16-4-3 to 33-8-8 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) 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 349 lb uplift at joint 10, 288 lb uplift at joint 16 and 118 lb uplift at joint 8.

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Date:

October 2,2024

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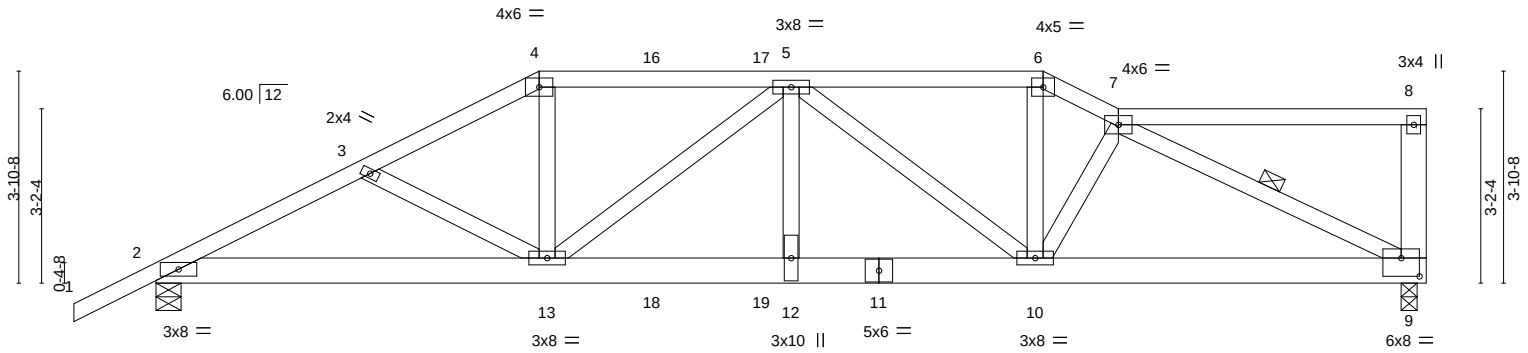
Job	Truss	Truss Type	Qty	Ply	LANDER RES. T35158279
4190707	T15	Roof Special Girder	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:21 2024 Page 1
ID:SuK_nl4MV6d2dgtVq4ygAeyXsle-eEQ6odooKkMVfbv5ZTHCum62xDqdzu0aHkGQVTyXkAC

-1-6-0	3-10-15	7-0-0	11-7-4	16-2-8	17-7-0	23-2-8
1-6-0	3-10-15	3-1-1	4-7-4	4-7-4	1-4-8	5-7-8

Scale = 1:42.1



7-0-0	11-7-4	16-2-8	23-0-8	23-2-8
7-0-0	4-7-4	4-7-4	6-10-0	0-2-0

Plate Offsets (X,Y)-- [9:0-4-0,0-4-0]

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	0.91	Vert(LL)	0.18	12-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.69	Vert(CT)	-0.28	12-13	>997	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	1.00	Horz(CT)	0.07	9	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 146 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
2-11: 2x6 SP 2400F 2.0E or 2x6 SP M 26
WEBS 2x4 SP No.3 *Except*
8-9: 2x6 SP No.2

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

REACTIONS. (size) 9=0-3-8, 2=0-5-8
Max Horz 2=160(LC 29)
Max Uplift 9=-700(LC 5), 2=-892(LC 8)
Max Grav 9=1664(LC 1), 2=2014(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3919/1798, 3-4=-3733/1783, 4-5=-3363/1639, 5-6=-2738/1192, 6-7=-3025/1309
BOT CHORD 2-13=-1674/3464, 12-13=-1867/4015, 10-12=-1867/4015, 9-10=-1198/2762
WEBS 4-13=-556/1229, 5-13=-889/323, 5-10=-1682/869, 6-10=-529/1198, 7-9=-3030/1320, 5-12=-430/1027

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 700 lb uplift at joint 9 and 892 lb uplift at joint 2.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 139 lb down and 120 lb up at 7-0-0, and 121 lb down and 120 lb up at 9-0-12, and 121 lb down and 120 lb up at 11-0-12 on top chord, and 334 lb down and 331 lb up at 7-0-0, and 88 lb down and 75 lb up at 9-0-12, and 986 lb down and 465 lb up at 11-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-60, 4-6=-60, 6-7=-60, 7-8=-60, 2-9=-20

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Continued on page 2

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LOAD CASE(S) Standard

Concentrated Loads (lb)

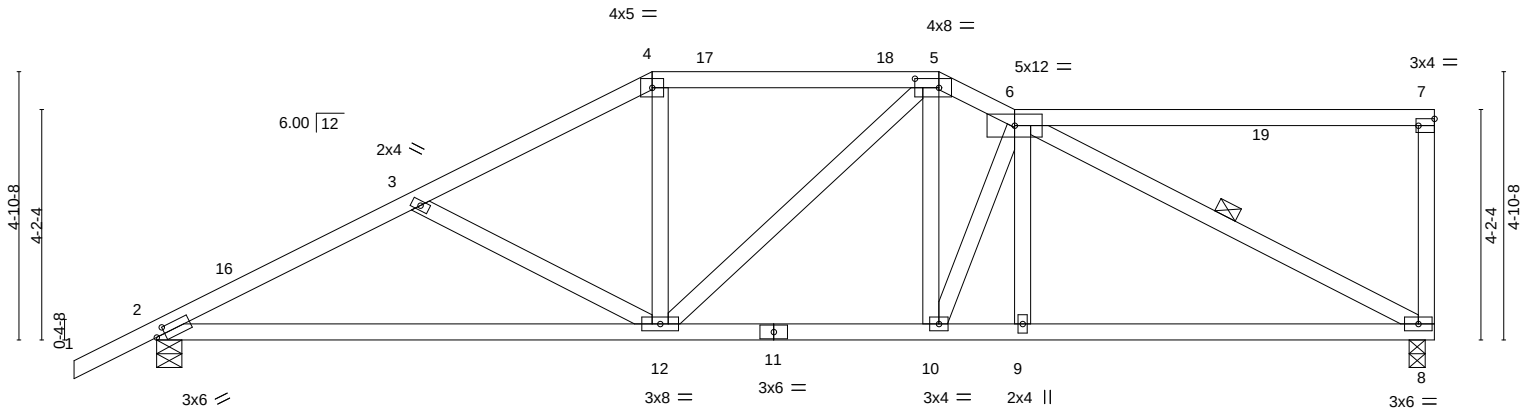
Vert: 4=-121(B) 13=-334(B) 16=-121(B) 17=-121(B) 18=-67(B) 19=-986(B)

Job	Truss	Truss Type	Qty	Ply	LANDER RES. T35158280
4190707	T16	Roof Special	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:22 2024 Page 1
ID:SuK_nl4MV6d2dgtVq4ygAeyXsle-6Q_U?ypQ51UMHlUI7ApRR_eGud9HiTyjWO0z1wyXkAB

-1-6-0 | 4-9-8 | 9-0-0 | 14-2-8 | 15-7-0 | 23-2-8
1-6-0 | 4-9-8 | 4-2-8 | 5-2-8 | 1-4-8 | 7-7-8

Scale = 1:41.8



9-0-0 | 14-2-8 | 15-7-0 | 23-0-8 | 23-2-8
9-0-0 | 5-2-8 | 1-4-8 | 7-5-8 | 0-2-0

Plate Offsets (X,Y)-- [2:0-1-15,0-1-8], [5:0-5-4,0-2-0], [7:Edge,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	0.71	Vert(LL)	-0.14	12-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.72	Vert(CT)	-0.30	12-15	>908	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.05	8	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 131 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 4-5-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-7-3 oc bracing.
WEBS 1 Row at midpt 6-8

REACTIONS. (size) 8=0-3-8, 2=0-5-8
Max Horz 2=202(LC 12)
Max Uplift 8=-277(LC 9), 2=-272(LC 12)
Max Grav 8=920(LC 1), 2=1015(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1615/552, 3-4=-1326/452, 4-5=-1138/449, 5-6=-1270/476
BOT CHORD 2-12=-601/1416, 10-12=-404/1107, 9-10=-435/1246, 8-9=-433/1252
WEBS 3-12=-328/222, 4-12=-28/358, 5-10=-151/386, 6-10=-419/150, 6-9=0/308, 6-8=-1356/467

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 14-2-8, Zone3 14-2-8 to 15-7-0, Zone1 15-7-0 to 23-0-12 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) 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 277 lb uplift at joint 8 and 272 lb uplift at joint 2.

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Chesterfield, MO 63017
Date:

October 2,2024

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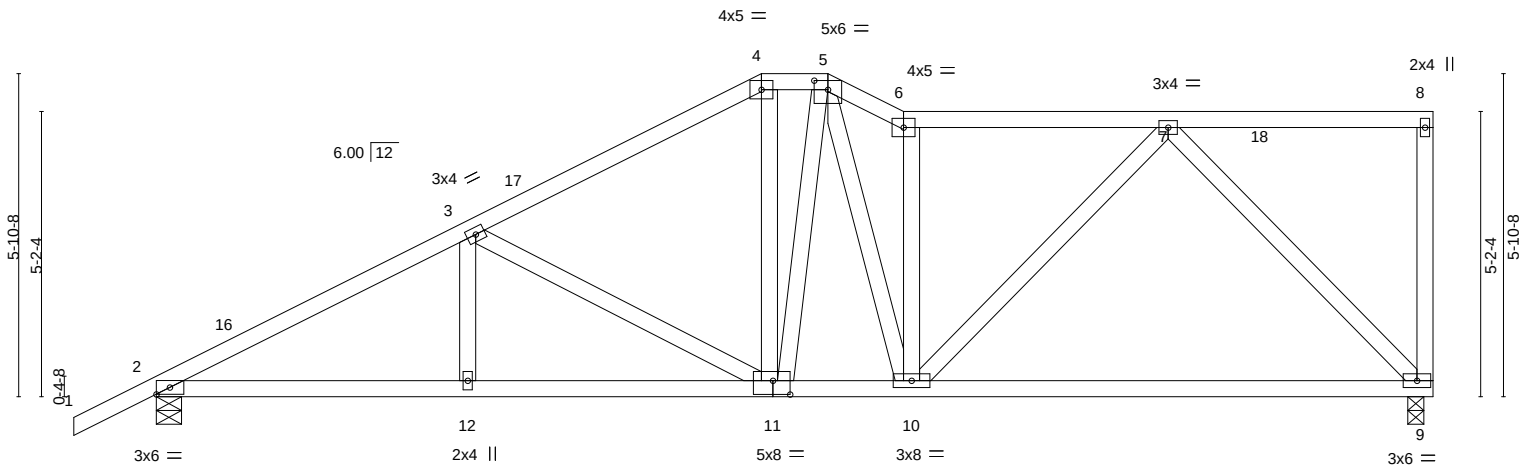
Job	Truss	Truss Type	Qty	Ply	LANDER RES. T35158281
4190707	T17	Roof Special	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:22 2024 Page 1
ID:SuK_nl4MV6d2dgtVq4ygAeyXsle-6Q_U?ypQ51UMHlUI7ApRR_eK2d80iN9jWO0z1wyXkAB

-1-6-0 | 5-7-15 | 11-0-0 | 12-2-8 | 13-7-0 | 18-4-12 | 23-2-8
1-6-0 | 5-7-15 | 5-4-1 | 1-2-8 | 1-4-8 | 4-9-11 | 4-9-13

Scale = 1:41.9



5-7-15 | 11-0-0 | 13-7-0 | 23-0-8 | 23-2-8
5-7-15 | 5-4-1 | 2-7-0 | 9-5-8 | 0-2-0

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

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	0.51	Vert(LL)	-0.21	9-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.80	Vert(CT)	-0.44	9-10	>628	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.88	Horz(CT)	0.04	9	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 144 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 4-5-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-0-1 oc bracing.

REACTIONS. (size) 9=0-3-8, 2=0-5-8
Max Horz 2=245(LC 12)
Max Uplift 9=-273(LC 13), 2=-284(LC 12)
Max Grav 9=920(LC 1), 2=1015(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1645/459, 3-4=-1142/367, 4-5=-959/377, 5-6=-1244/423, 6-7=-1072/355
BOT CHORD 2-12=-547/1416, 11-12=-547/1416, 10-11=-337/956, 9-10=-259/706
WEBS 3-11=-533/259, 4-11=-52/286, 5-10=-150/528, 6-10=-714/262, 7-10=-140/531, 7-9=-994/373

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; 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, Zone3 11-0-0 to 13-7-0, Zone1 13-7-0 to 23-0-12 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) 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 273 lb uplift at joint 9 and 284 lb uplift at joint 2.

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Date:

October 2,2024

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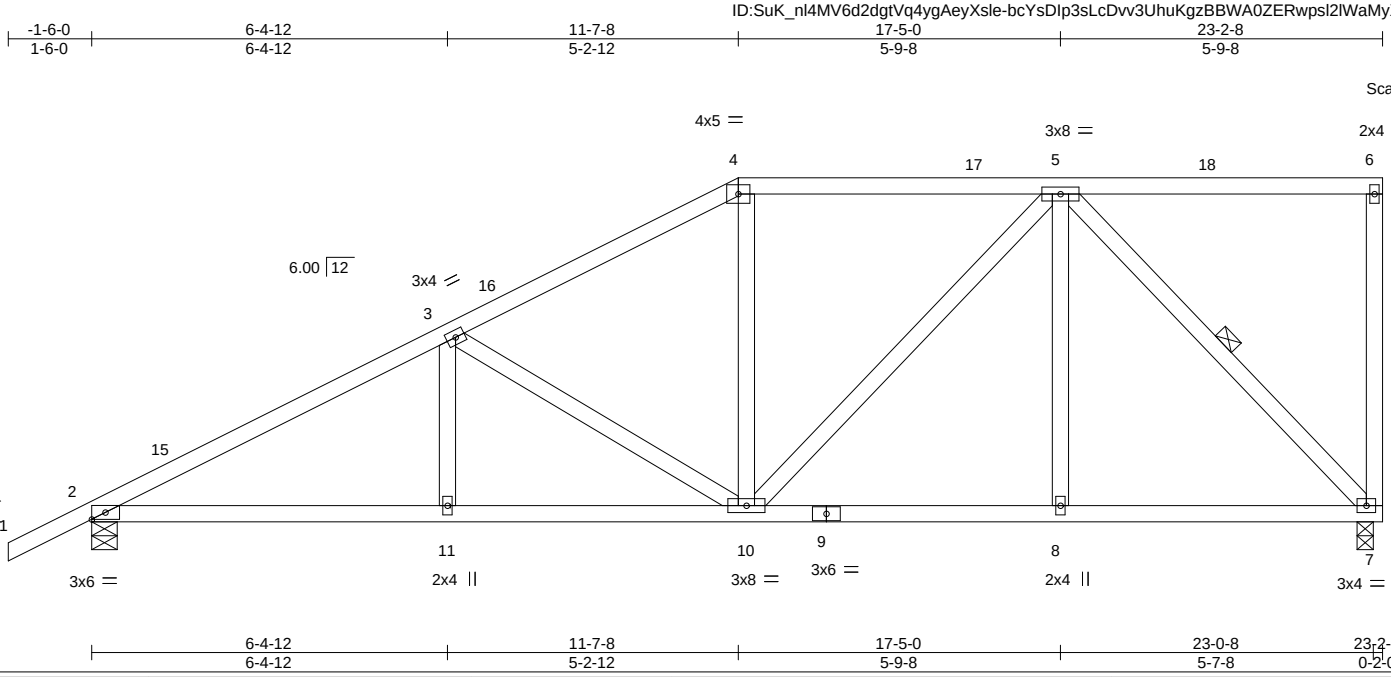
Job	Truss	Truss Type	Qty	Ply	LANDER RES. T35158282
4190707	T18	Half Hip	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:23 2024 Page 1
ID:SuK_nl4MV6d2dgtVq4ygAeyXsle-bcYsDIp3sLcDvv3UhuKgzBBWA0ZERwpsl2lWaMyXkAA



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	0.42	Vert(LL)	0.06	11-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.49	Vert(CT)	-0.12	11-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.04	7	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 135 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 4-3-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-7-4 oc bracing.
WEBS 1 Row at midpt 5-7

REACTIONS. (size) 7=0-3-8, 2=0-5-8
Max Horz 2=275(LC 12)
Max Uplift 7=-294(LC 9), 2=-322(LC 12)
Max Grav 7=920(LC 1), 2=1015(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1602/463, 3-4=-1097/349, 4-5=-912/352
BOT CHORD 2-11=-583/1369, 10-11=-583/1369, 8-10=-237/710, 7-8=-237/710
WEBS 3-10=-539/269, 4-10=-4/252, 5-10=-167/292, 5-7=-1011/341

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; 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 11-7-8, Zone2 11-7-8 to 15-10-7, Zone1 15-10-7 to 23-0-12 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) 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 294 lb uplift at joint 7 and 322 lb uplift at joint 2.

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Date:

October 2,2024

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Job	Truss	Truss Type	Qty	Ply	LANDER RES. T35158283
4190707	T19	Half Hip	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:23 2024 Page 1
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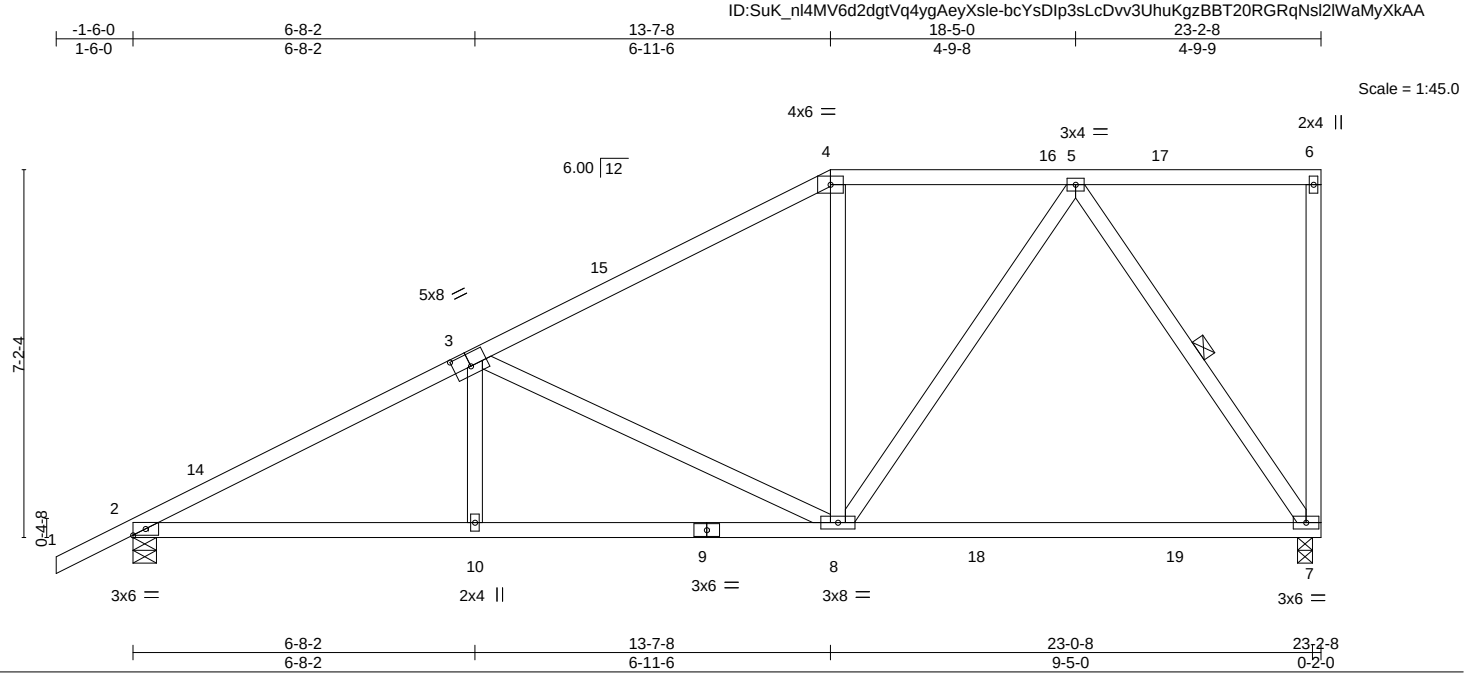

Plate Offsets (X,Y)-- [3:0-4-0,0-3-0]

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	0.62	Vert(LL)	-0.37	7-8	>751	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	1.00	Vert(CT)	-0.59	7-8	>469	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.04	7	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 133 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 4-2-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 5-7

REACTIONS. (size) 7=0-3-8, 2=0-5-8
Max Horz 2=317(LC 12)
Max Uplift 7=-289(LC 12), 2=-314(LC 12)
Max Grav 7=1024(LC 2), 2=1069(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1695/457, 3-4=-1052/277, 4-5=-864/302
BOT CHORD 2-10=-622/1482, 8-10=-621/1491, 7-8=-191/528
WEBS 3-10=0/254, 3-8=-696/349, 5-8=-198/602, 5-7=-907/345

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; 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 13-7-8, Zone2 13-7-8 to 17-10-7, Zone1 17-10-7 to 23-0-12 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) 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 289 lb uplift at joint 7 and 314 lb uplift at joint 2.

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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

October 2,2024

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314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	LANDER RES. T35158284
4190707	T20	Half Hip	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:24 2024 Page 1
ID:SuK_nl4MV6d2dgtVq4ygAeyXsle-3p6FQeqhdfk4W3egFbrvWPkcTQrLAKE0_iV46oyXkA9

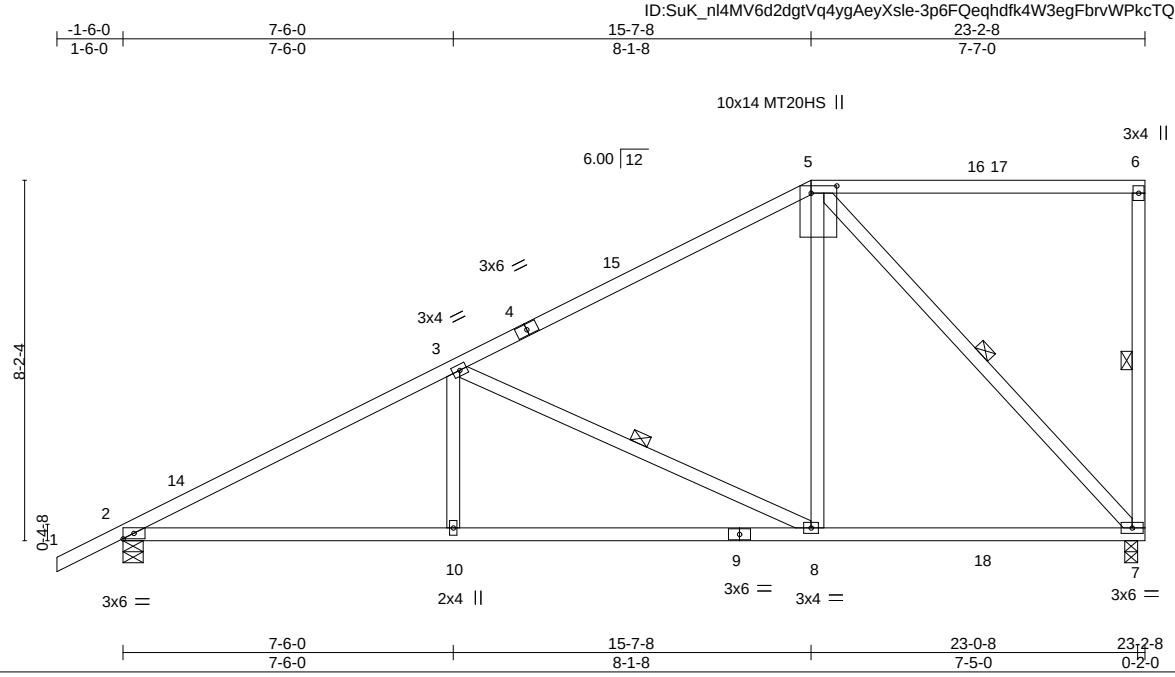

Plate Offsets (X,Y)-- [5:0-2-0,0-7-0]

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	0.77	Vert(LL)	-0.13	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.75	Vert(CT)	-0.20	7-8	>999	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.04	7	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 131 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 4-1-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-4-1 oc bracing.
WEBS 1 Row at midpt 6-7, 3-8, 5-7

REACTIONS. (size) 7=0-3-8, 2=0-5-8
Max Horz 2=359(LC 12)
Max Uplift 7=-316(LC 12), 2=-304(LC 12)
Max Grav 7=1020(LC 2), 2=1071(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1662/416, 3-5=-870/212
BOT CHORD 2-10=-618/1446, 8-10=-618/1446, 7-8=-257/702
WEBS 3-10=0/330, 3-8=-839/401, 5-8=-112/694, 5-7=-998/369

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; 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 15-7-8, Zone2 15-7-8 to 19-10-7, Zone1 19-10-7 to 23-0-12 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) 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, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 316 lb uplift at joint 7 and 304 lb uplift at joint 2.

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Date:

October 2,2024

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Job	Truss	Truss Type	Qty	Ply	LANDER RES. T35158285
4190707	T21	Roof Special	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:24 2024 Page 1
ID:SuK_nl4MV6d2dgtVq4ygAeyXsle-3p6FQeqhdfk4W3egFbrvWPke_QsFAEM0_iV46oyXkA9

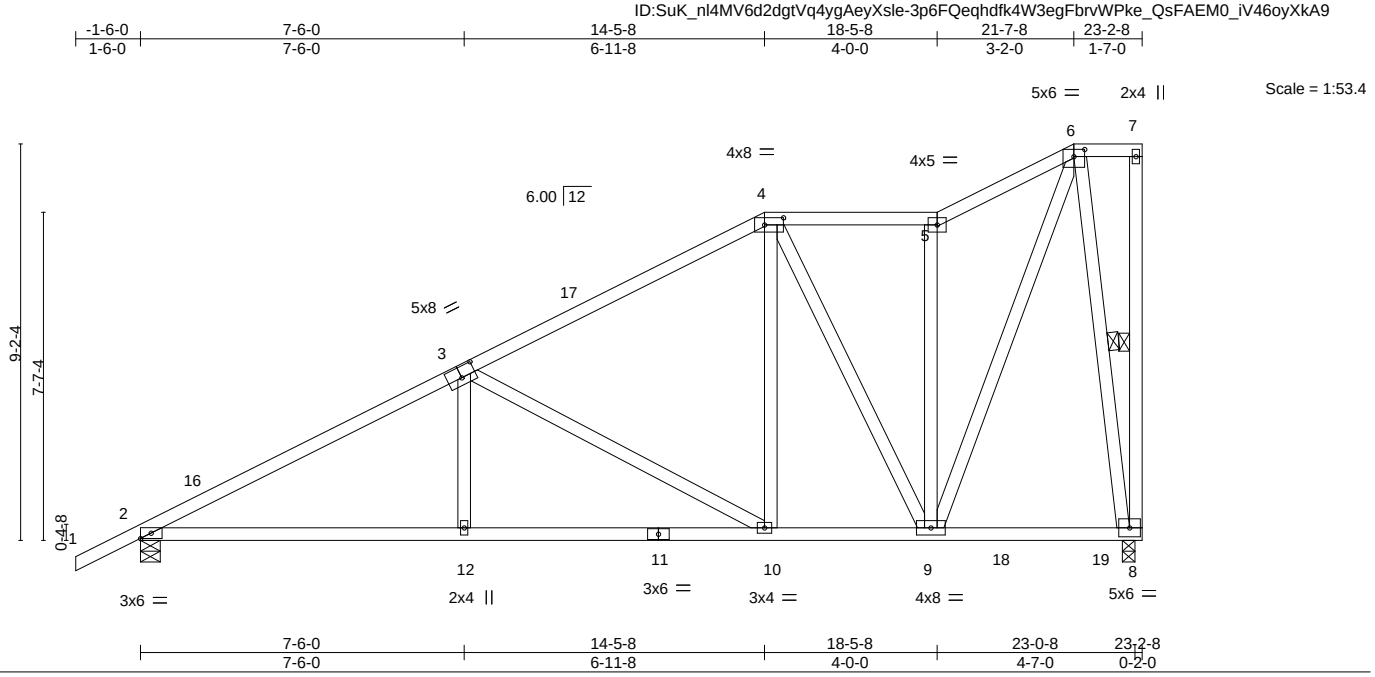

Plate Offsets (X,Y)-- [3:0-4-0,0-3-0], [4:0-5-4,0-2-0], [6:0-3-0,0-2-0]

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	0.61	Vert(LL)	-0.10	12-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.69	Vert(CT)	-0.21	12-15	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.96	Horz(CT)	0.04	8	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 164 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 4-0-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-2-9 oc bracing.
WEBS 1 Row at midpt 7-8, 6-8

REACTIONS. (size) 8=0-3-8, 2=0-5-8
Max Horz 2=402(LC 12)
Max Uplift 8=-369(LC 12), 2=-293(LC 12)
Max Grav 8=1009(LC 2), 2=1061(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1636/389, 3-4=-920/218, 4-5=-521/136, 5-6=-628/200
BOT CHORD 2-12=-635/1422, 10-12=-634/1431, 9-10=-320/752
WEBS 3-12=0/321, 3-10=-779/357, 4-10=-128/541, 4-9=-494/250, 5-9=-441/205, 6-9=-417/1097, 6-8=-895/388

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; 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 14-5-8, Zone3 14-5-8 to 18-5-8, Zone1 18-5-8 to 21-7-8, Zone3 21-7-8 to 23-0-12 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) 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 369 lb uplift at joint 8 and 293 lb uplift at joint 2.

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Date:

October 2,2024

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Job	Truss	Truss Type	Qty	Ply	LANDER RES. T35158286
4190707	T22	Roof Special	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:25 2024 Page 1
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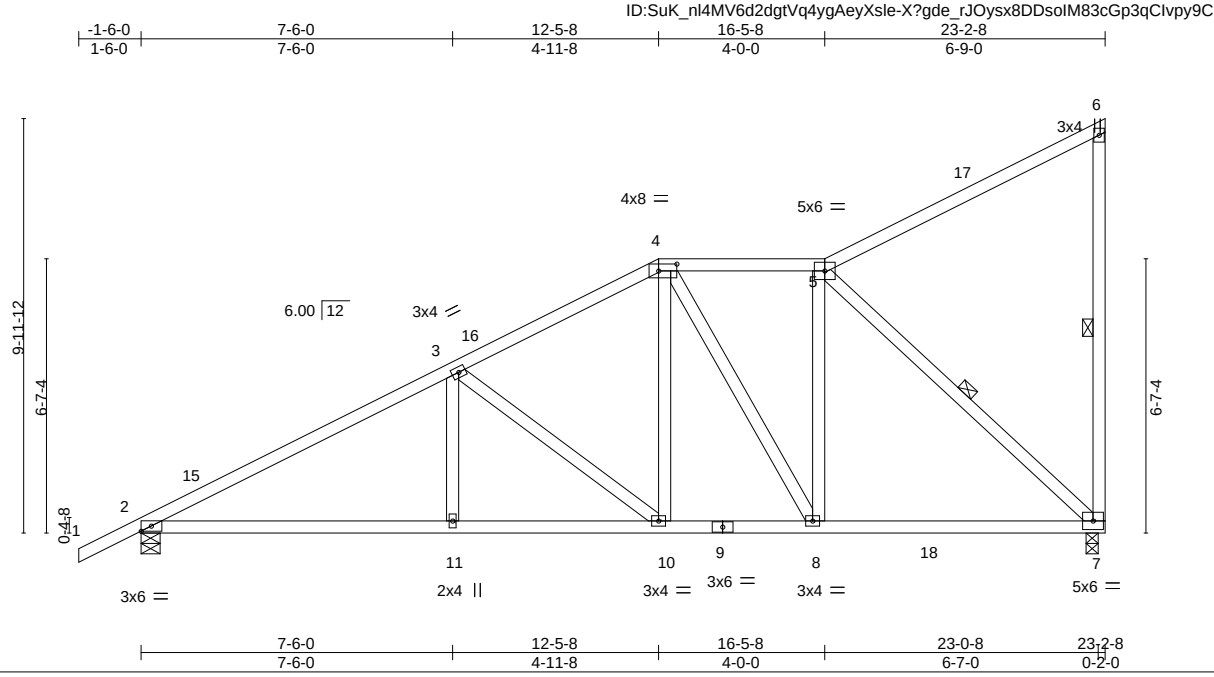

Plate Offsets (X,Y)-- [4:0-5-4,0-2-0]

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	0.59	Vert(LL)	-0.11	11-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.70	Vert(CT)	-0.23	11-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.04	7	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 145 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 3-9-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-2-0 oc bracing.
WEBS 1 Row at midpt 6-7, 5-7

REACTIONS. (size) 7=0-3-8, 2=0-5-8
Max Horz 2=432(LC 12)
Max Uplift 7=-406(LC 12), 2=-282(LC 12)
Max Grav 7=1008(LC 2), 2=1067(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1644/355, 3-4=-1079/249, 4-5=-801/166
BOT CHORD 2-11=-629/1410, 10-11=-629/1410, 8-10=-397/909, 7-8=-303/790
WEBS 3-11=0/295, 3-10=-641/294, 4-10=-149/466, 5-8=-111/448, 5-7=-1078/412

NOTES-
1) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; 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 12-5-8, Zone3 12-5-8 to 16-5-8, Zone1 16-5-8 to 23-0-12 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) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 406 lb uplift at joint 7 and 282 lb uplift at joint 2.

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Date:

October 2,2024

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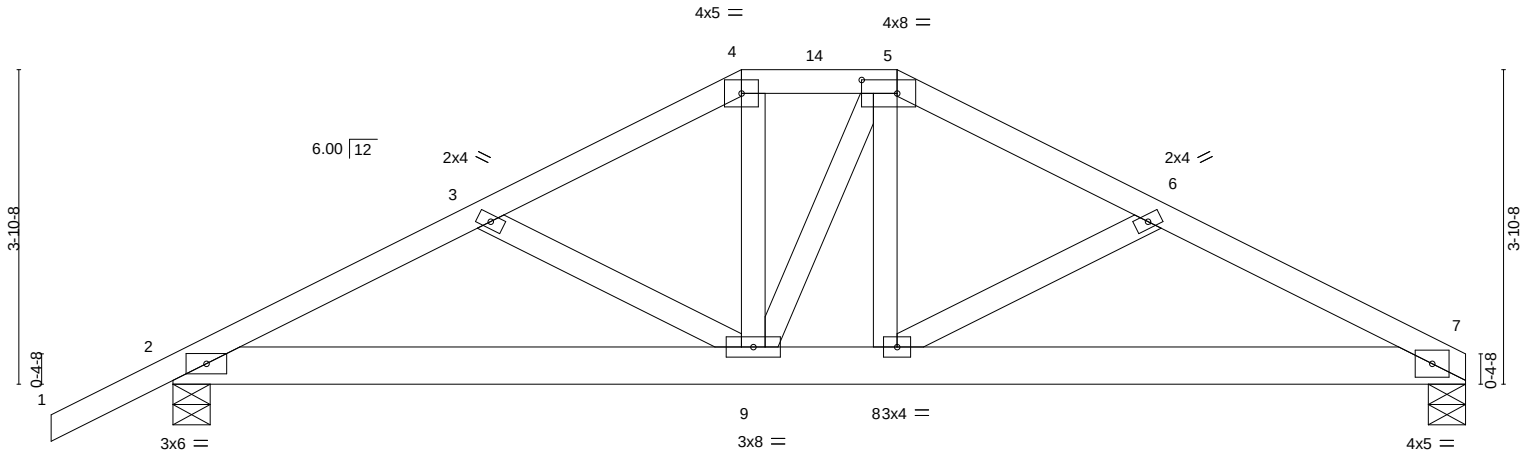
Job	Truss	Truss Type	Qty	Ply	LANDER RES. T35158287
4190707	T23	Hip Girder	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:25 2024 Page 1
ID:SuK_nl4MV6d2dgtVq4ygAeyXsle-X?gde_rJOysx8DDsoIM83cGuqqFWvt99CMEdeFyXkA8

-1-6-0 | 3-10-15 | 7-0-0 | 8-11-0 | 12-0-1 | 15-11-0
1-6-0 | 3-10-15 | 3-1-1 | 1-11-0 | 3-1-1 | 3-10-15

Scale = 1:28.4



7-0-0 | 8-11-0 | 15-11-0
7-0-0 | 1-11-0 | 7-0-0

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

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	0.28	Vert(LL)	0.08	8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.50	Vert(CT)	-0.11	8-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.22	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 91 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 3-10-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-0-6 oc bracing.

REACTIONS. (size) 7=0-5-8, 2=0-5-8
Max Horz 2=92(LC 8)
Max Uplift 7=-595(LC 9), 2=-641(LC 8)
Max Grav 7=1135(LC 1), 2=1223(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2154/1229, 3-4=-1952/1153, 4-5=-1726/1073, 5-6=-1974/1166, 6-7=-2186/1237
BOT CHORD 2-9=-1110/1904, 8-9=-983/1742, 7-8=-1055/1937
WEBS 4-9=-368/585, 5-8=-356/554

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 595 lb uplift at joint 7 and 641 lb uplift at joint 2.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 139 lb down and 119 lb up at 7-0-0, and 253 lb down and 227 lb up at 8-11-0 on top chord, and 334 lb down and 331 lb up at 7-0-0, and 334 lb down and 331 lb up at 8-10-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-60, 4-5=-60, 5-7=-60, 2-7=-20
Concentrated Loads (lb)
Vert: 4=-121(F) 5=-206(F) 9=-334(F) 8=-334(F)

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Date:

October 2,2024

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Job	Truss	Truss Type	Qty	Ply	LANDER RES. T35158288
4190707	T24	Common	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:26 2024 Page 1
ID:SuK_nl4MV6d2dgtVq4ygAeyXsle-?BE?rKsx9G_omNo3M0tNbqpwWEXeeLeJR0_ABhyXkA7

-1-6-0 / 1-6-0 | 7-11-8 / 7-11-8 | 15-11-0 / 7-11-8

Scale = 1:28.9

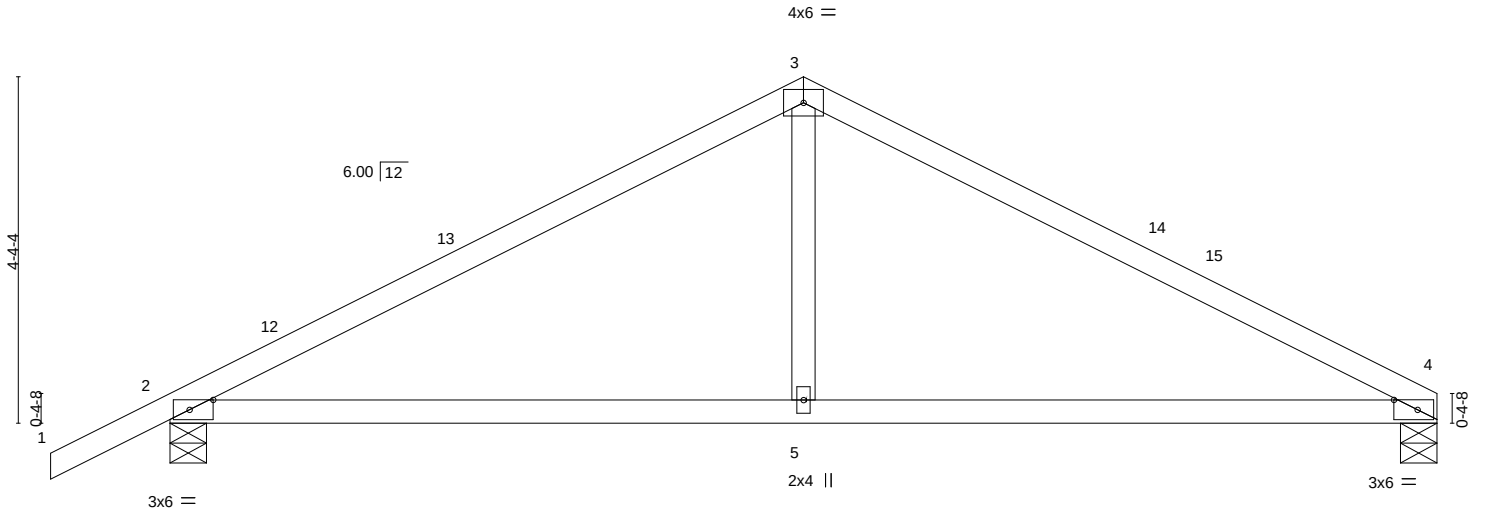

Plate Offsets (X,Y)-- [2:0-3-9,Edge], [4:0-3-9,Edge]

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	0.86	Vert(LL)	0.15	5-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.70	Vert(CT)	-0.26	5-8	>744	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 59 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.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=0-5-8, 2=0-5-8
Max Horz 2=100(LC 12)
Max Uplift 4=-176(LC 13), 2=-222(LC 12)
Max Grav 4=632(LC 1), 2=731(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-909/340, 3-4=-907/351
BOT CHORD 2-5=-195/727, 4-5=-195/727
WEBS 3-5=-21/377

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; 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 7-11-8, Zone2 7-11-8 to 12-2-7, Zone1 12-2-7 to 15-11-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 176 lb uplift at joint 4 and 222 lb uplift at joint 2.

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Date:

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Job	Truss	Truss Type	Qty	Ply	LANDER RES. T35158289
4190707	T25	Half Hip	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:26 2024 Page 1
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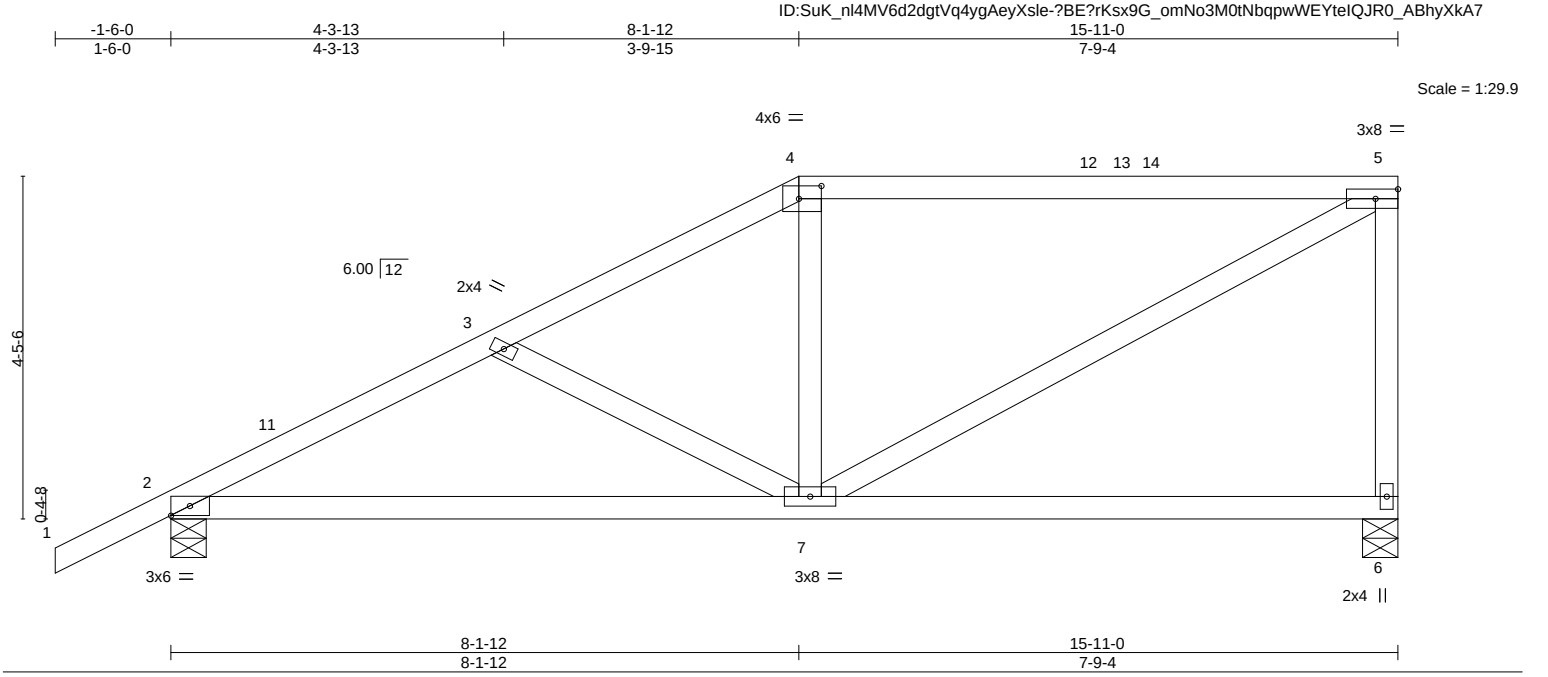

Plate Offsets (X,Y)-- [4:0-3-8,0-2-0]

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	0.86	Vert(LL)	-0.08	7-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.62	Vert(CT)	-0.16	7-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 82 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 9-3-15 oc bracing.

REACTIONS. (size) 6=0-5-8, 2=0-5-8
Max Horz 2=201(LC 12)
Max Uplift 6=-199(LC 9), 2=-234(LC 12)
Max Grav 6=627(LC 1), 2=725(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1008/314, 3-4=-768/222, 4-5=-645/234, 5-6=-561/231
BOT CHORD 2-7=-398/875
WEBS 3-7=-258/182, 5-7=-254/687

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; 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 8-1-12, Zone2 8-1-12 to 12-4-11, Zone1 12-4-11 to 15-9-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 199 lb uplift at joint 6 and 234 lb uplift at joint 2.

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Date:

October 2,2024

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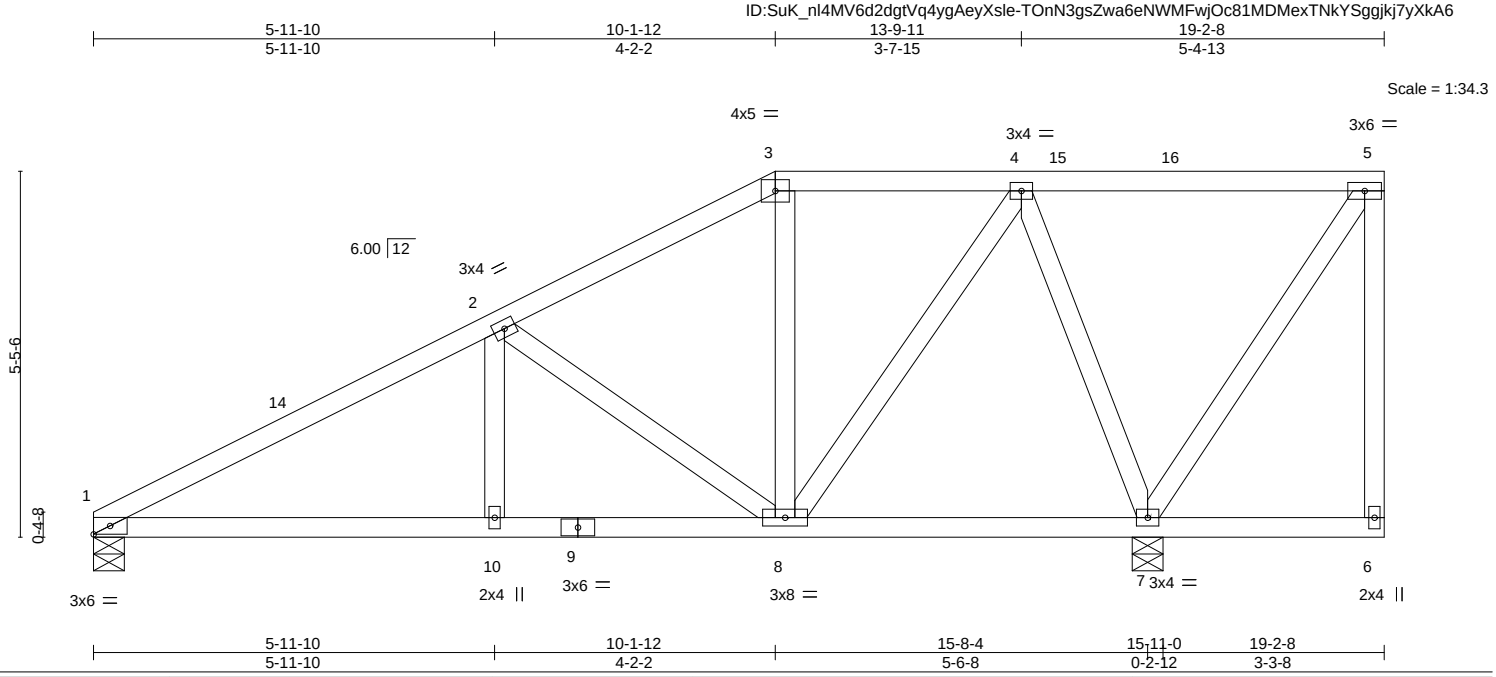
Job	Truss	Truss Type	Qty	Ply	LANDER RES. T35158290
4190707	T26	Half Hip	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:27 2024 Page 1
ID:SuK_nl4MV6d2dgtVq4ygAeyXsle-TOnN3gsZwa6eNWMFwjOc81MDMexTNkYSggjkj7yXkA6



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	0.34	Vert(LL)	0.06	10-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.40	Vert(CT)	-0.09	10-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS							Weight: 110 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 5-6-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-7-3 oc bracing.

REACTIONS. (size) 1=0-5-8, 7=0-5-8
Max Horz 1=216(LC 12)
Max Uplift 1=-226(LC 9), 7=-526(LC 9)
Max Grav 1=598(LC 1), 7=927(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-937/486, 2-3=-497/277, 3-4=-381/268
BOT CHORD 1-10=-558/782, 8-10=-558/782
WEBS 2-8=-492/356, 4-8=-316/413, 4-7=-707/427

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 10-1-12, Zone2 10-1-12 to 14-4-11, Zone1 14-4-11 to 19-0-12 zone; cantilever right exposed ; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) 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 226 lb uplift at joint 1 and 526 lb uplift at joint 7.

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Date:

October 2,2024

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Job	Truss	Truss Type	Qty	Ply	LANDER RES. T35158291
4190707	T27	Half Hip	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:27 2024 Page 1
ID:SuK_nl4MV6d2dgtVq4ygAeyXsle-TOnN3gsZwa6eNWMFwjOc81M8YevANiSSggjkj7yXkA6

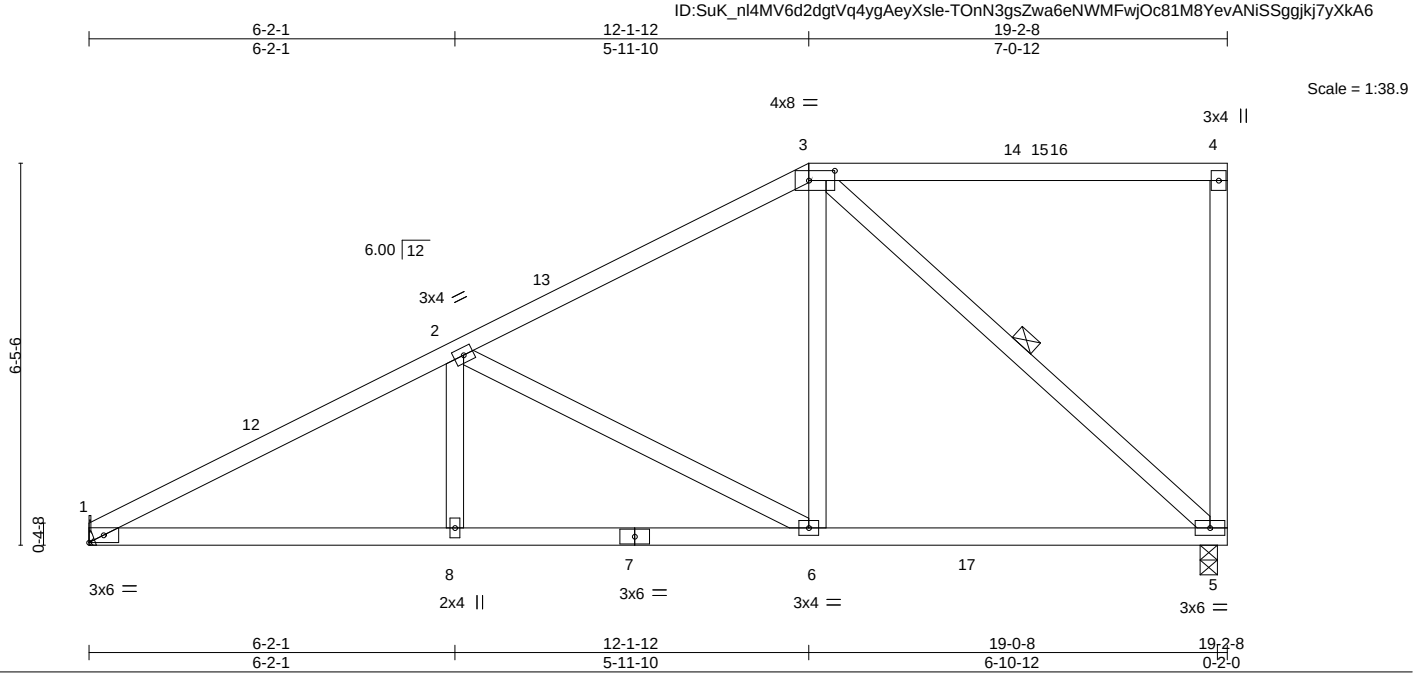

Plate Offsets (X,Y)-- [3:0-5-4,0-2-0]

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	0.65	Vert(LL)	-0.08	5-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.55	Vert(CT)	-0.15	5-6	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.03	5	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 104 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 4-7-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-1-12 oc bracing.
WEBS 1 Row at midpt 3-5

REACTIONS. (size) 1=Mechanical, 5=0-3-8
Max Horz 1=258(LC 12)
Max Uplift 1=-219(LC 12), 5=-252(LC 12)
Max Grav 1=821(LC 2), 5=837(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1362/355, 2-3=-783/205
BOT CHORD 1-8=-503/1184, 6-8=-503/1184, 5-6=-234/649
WEBS 2-6=-625/305, 3-6=-92/566, 3-5=-839/306

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 12-1-12, Zone2 12-1-12 to 16-4-11, Zone1 16-4-11 to 19-0-12 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) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 219 lb uplift at joint 1 and 252 lb uplift at joint 5.

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Date:
October 2,2024

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Job	Truss	Truss Type	Qty	Ply	LANDER RES. T35158292
4190707	T28	Roof Special Girder	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:28 2024 Page 1
ID:SuK_nl4MV6d2dgtVq4ygAeyXsle-xaLlG0tBhtEV?gxRURvrgFuMZ1CH62wbuJTHFZyXkA5

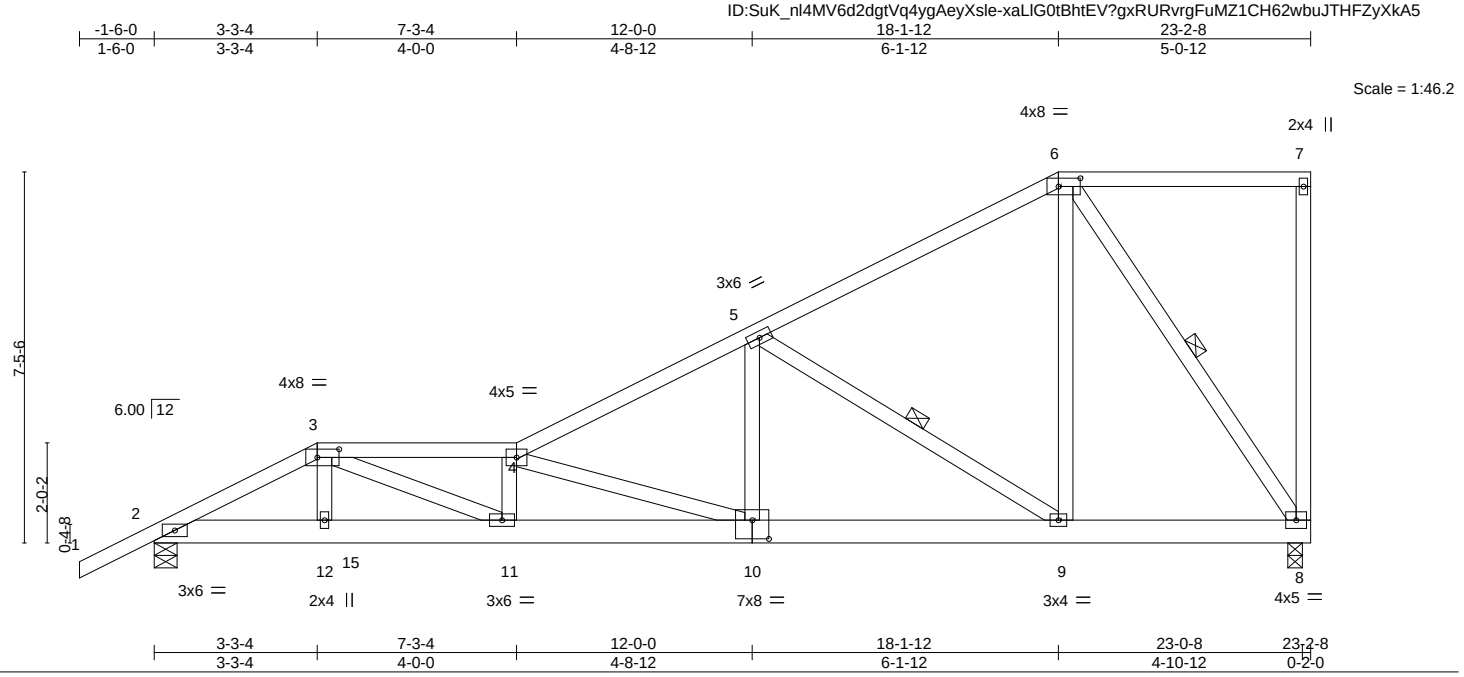

Plate Offsets (X,Y)-- [3:0-5-4,0-2-0], [6:0-5-4,0-2-0], [10:0-4-0,0-4-8]

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	0.51	Vert(LL)	0.15	10-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.75	Vert(CT)	-0.28	10-11	>991	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.99	Horz(CT)	0.05	8	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 158 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 2-9-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-4-10 oc bracing.
WEBS 1 Row at midpt 5-9, 6-8

REACTIONS. (size) 8=0-3-8, 2=0-5-8
Max Horz 2=328(LC 8)
Max Uplift 8=-327(LC 8), 2=-512(LC 8)
Max Grav 8=1000(LC 1), 2=1409(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2713/954, 3-4=-3431/1101, 4-5=-1835/525, 5-6=-720/180
BOT CHORD 2-12=-1105/2393, 11-12=-1125/2445, 10-11=-1342/3465, 9-10=-654/1613, 8-9=-214/579
WEBS 3-12=-231/594, 3-11=-335/1071, 4-11=-382/207, 4-10=-1959/727, 5-10=-216/803, 5-9=-1243/526, 6-9=-241/776, 6-8=-1002/373

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 327 lb uplift at joint 8 and 512 lb uplift at joint 2.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 68 lb down and 69 lb up at 3-3-4, and 455 lb down and 188 lb up at 3-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-60, 3-4=-60, 4-6=-60, 6-7=-60, 2-8=-20
Concentrated Loads (lb)
Vert: 12=-30(F) 15=-444(F)

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October 2,2024

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Job	Truss	Truss Type	Qty	Ply	LANDER RES. T35158293
4190707	T29	Roof Special	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:28 2024 Page 1
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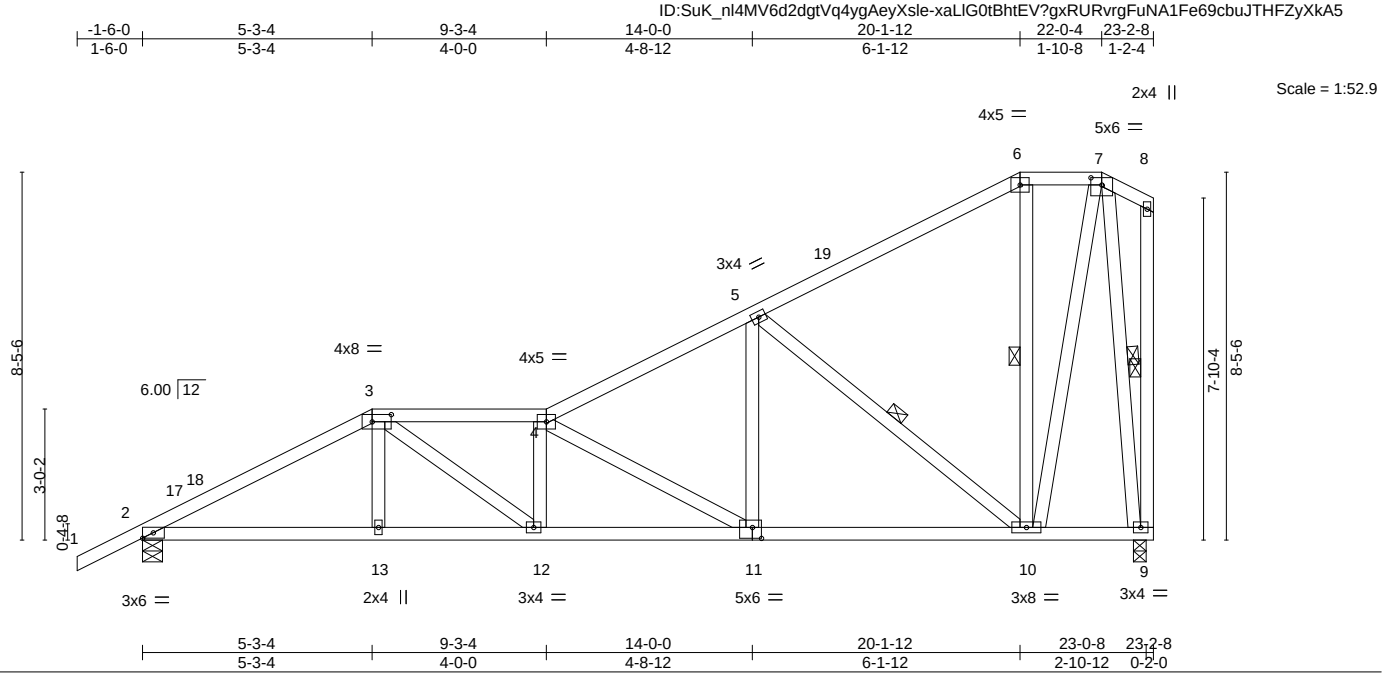

Plate Offsets (X,Y)-- [3:0-5-4,0-2-0], [7:0-3-0,0-2-0], [11:0-2-8,0-3-0]

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	0.40	Vert(LL)	-0.08	12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.53	Vert(CT)	-0.16	11-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.05	9	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 161 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 4-1-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-11-12 oc bracing.
WEBS 1 Row at midpt 5-10, 6-10, 7-9, 8-9

REACTIONS. (size) 2=0-5-8, 9=0-3-8
Max Horz 2=357(LC 12)
Max Uplift 2=-307(LC 12), 9=-328(LC 12)
Max Grav 2=1015(LC 1), 9=920(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1631/435, 3-4=-1862/502, 4-5=-1217/293, 5-6=-416/102, 6-7=-288/140
BOT CHORD 2-13=-647/1398, 12-13=-646/1404, 11-12=-724/1876, 10-11=-433/1048
WEBS 3-12=-107/561, 4-12=-263/87, 4-11=-955/337, 5-11=-134/607, 5-10=-973/412, 7-10=-341/854, 7-9=-853/327

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; 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 5-3-4, Zone3 5-3-4 to 9-3-4, Zone1 9-3-4 to 20-1-12, Zone3 20-1-12 to 23-0-12 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) 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 307 lb uplift at joint 2 and 328 lb uplift at joint 9.

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Date:

October 2,2024

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Job	Truss	Truss Type	Qty	Ply	LANDER RES. T35158294
4190707	T30	Roof Special	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:29 2024 Page 1
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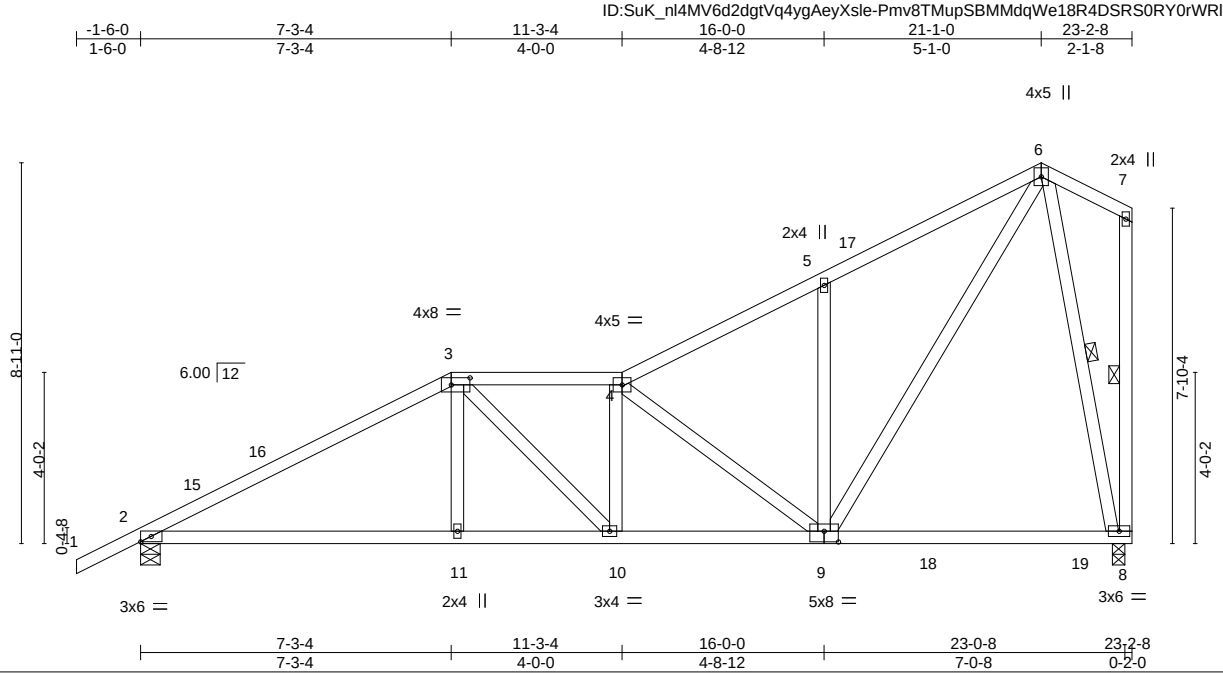

Plate Offsets (X,Y)-- [3:0-5-4,0-2-0], [9:0-4-0,0-3-0]

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	0.78	Vert(LL)	-0.14	8-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.72	Vert(CT)	-0.24	11-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.91	Horz(CT)	0.04	8	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 148 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 7-1-11 oc bracing.
WEBS 1 Row at midpt 6-8, 7-8

REACTIONS. (size) 2=0-5-8, 8=0-3-8
Max Horz 2=366(LC 12)
Max Uplift 2=-305(LC 12), 8=-346(LC 12)
Max Grav 2=1064(LC 2), 8=1024(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1624/397, 3-4=-1531/406, 4-5=-1001/225, 5-6=-1022/345
BOT CHORD 2-11=-595/1386, 10-11=-595/1397, 9-10=-576/1534
WEBS 3-11=0/283, 4-9=-861/320, 5-9=-340/253, 6-9=-475/1283, 6-8=-867/371

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; 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 7-3-4, Zone3 7-3-4 to 11-3-4, Zone1 11-3-4 to 21-1-0, Zone3 21-1-0 to 23-0-12 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) 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 305 lb uplift at joint 2 and 346 lb uplift at joint 8.

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Date:

October 2,2024

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314.434.1200 / MiTek-US.com

Job	Truss	Truss Type	Qty	Ply	LANDER RES. T35158295
4190707	T31	Roof Special	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:30 2024 Page 1
ID:SuK_nl4MV6d2dgtVq4ygAeyXsle-tyTWhhvSCVUDE_5qbsyJmfzjfrtra0uuMdyOKSyXkA3

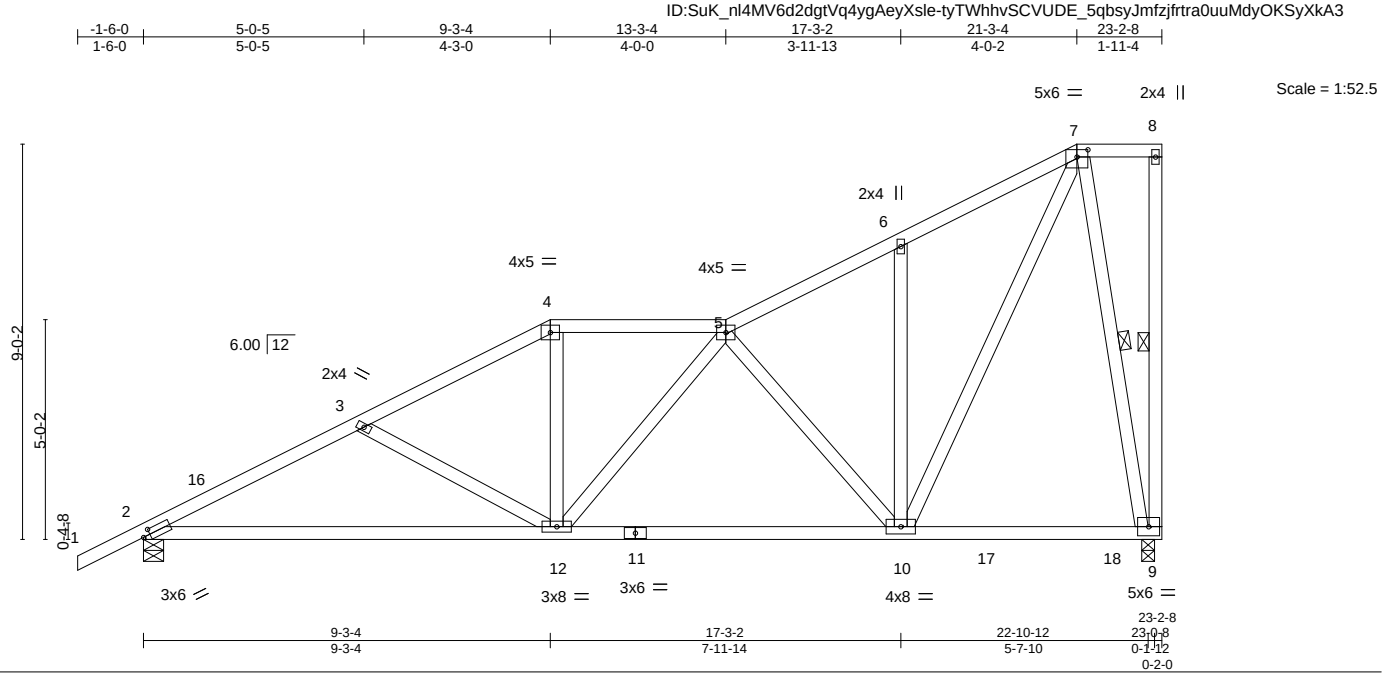

Plate Offsets (X,Y)-- [2:0-1-15,0-1-8], [7:0-3-0,0-2-0]

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	0.40	Vert(LL)	-0.15	12-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.81	Vert(CT)	-0.32	12-15	>857	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.04	9	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 155 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 4-0-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-0-11 oc bracing.
WEBS 1 Row at midpt 8-9, 7-9

REACTIONS. (size) 2=0-5-8, 9=0-3-8
Max Horz 2=394(LC 12)
Max Uplift 2=-296(LC 12), 9=-360(LC 12)
Max Grav 2=1062(LC 2), 9=1016(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1673/442, 3-4=-1403/331, 4-5=-1214/332, 5-6=-798/149, 6-7=-811/255
BOT CHORD 2-12=-699/1481, 10-12=-460/1170
WEBS 3-12=-342/225, 4-12=-7/414, 5-10=-760/312, 6-10=-271/203, 7-10=-437/1183, 7-9=-892/384

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 9-3-4, Zone3 9-3-4 to 13-3-4, Zone1 13-3-4 to 21-3-4, Zone3 21-3-4 to 23-0-12 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) 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 296 lb uplift at joint 2 and 360 lb uplift at joint 9.

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October 2,2024

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Job	Truss	Truss Type	Qty	Ply	LANDER RES. T35158296
4190707	T32	Roof Special	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:30 2024 Page 1
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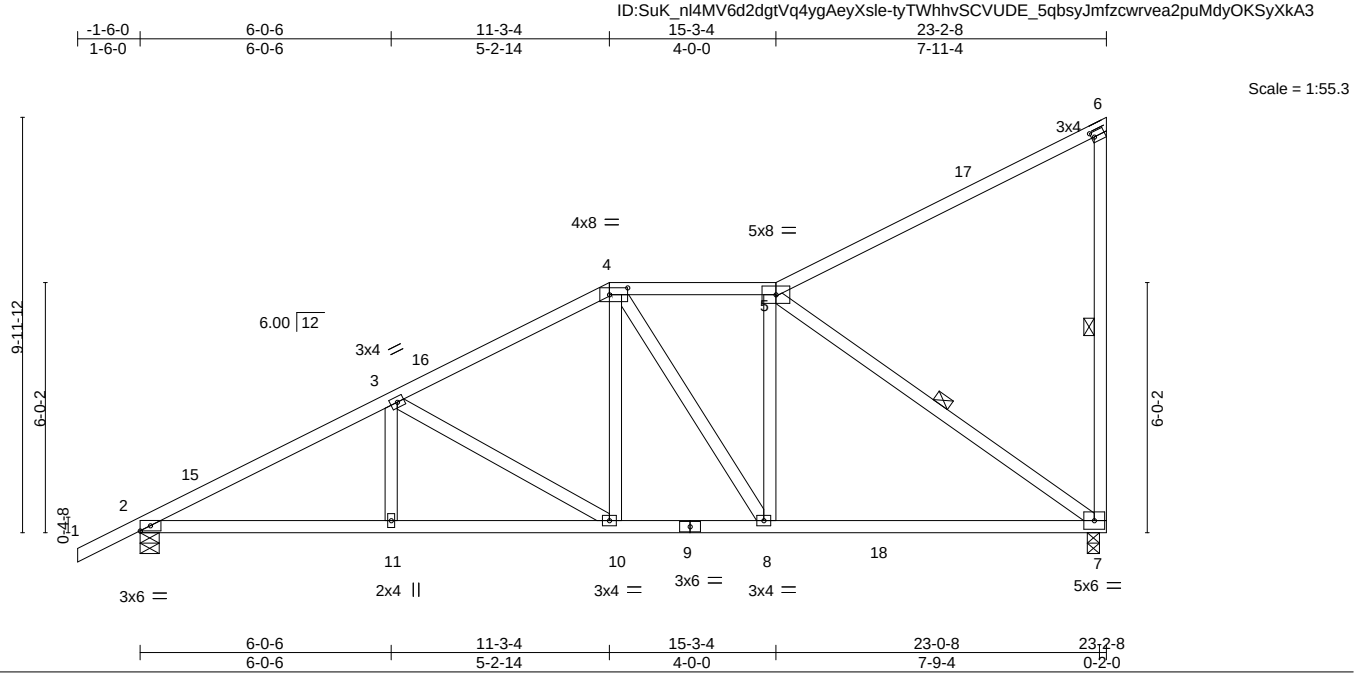

Plate Offsets (X,Y)-- [4:0-5-4,0-2-0], [6:0-0-13,0-1-8]

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	0.83	Vert(LL)	-0.15	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL 1.25	BC	0.69	Vert(CT)	-0.29	7-8	>955	180		
BCLL	0.0 *	Rep Stress Incr YES	WB	0.58	Horz(CT)	0.05	7	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014	Matrix-MS							Weight: 142 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 7-1-7 oc bracing.
WEBS 1 Row at midpt 6-7, 5-7

REACTIONS. (size) 7=0-3-8, 2=0-5-8
Max Horz 2=432(LC 12)
Max Uplift 7=-406(LC 12), 2=-282(LC 12)
Max Grav 7=1005(LC 2), 2=1069(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1740/383, 3-4=-1195/267, 4-5=-975/202
BOT CHORD 2-11=-673/1508, 10-11=-673/1508, 8-10=-445/1016, 7-8=-365/966
WEBS 3-11=0/254, 3-10=-582/266, 4-10=-114/385, 5-8=-67/377, 5-7=-1177/443

NOTES-
1) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; 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 11-3-4, Zone3 11-3-4 to 15-3-4, Zone1 15-3-4 to 23-0-12 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) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 406 lb uplift at joint 7 and 282 lb uplift at joint 2.

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October 2,2024

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Job	Truss	Truss Type	Qty	Ply	LANDER RES. T35158297
4190707	T33	Half Hip Girder	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:31 2024 Page 1
ID:SuK_nl4MV6d2dgtVq4ygAeyXsle-M91uu1w4zod4s8g09ZTYItWm3FHyJVN2bHhxsuyXkA2

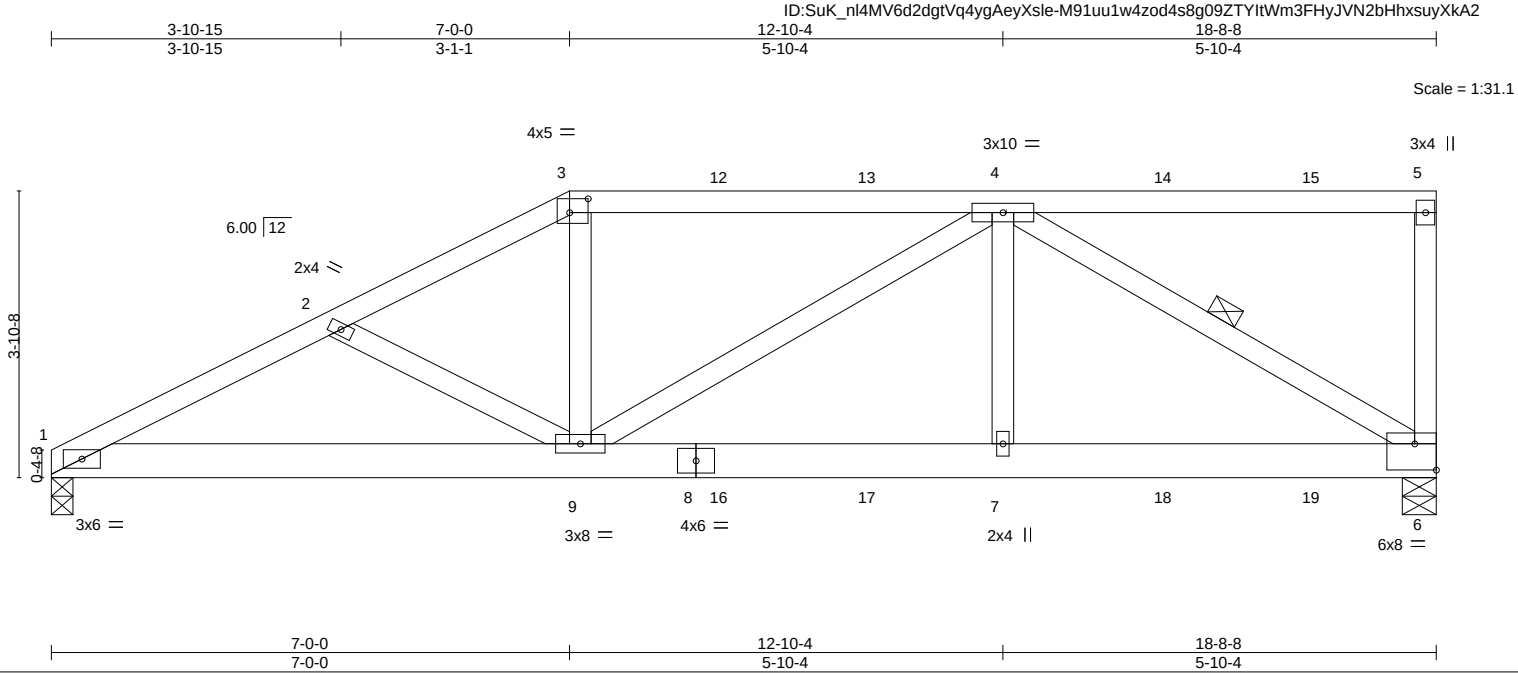

Plate Offsets (X,Y)-- [3:0-3-0,0-2-4], [6:Edge,0-4-4]

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	0.94	Vert(LL)	0.11	7-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.56	Vert(CT)	-0.14	7-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.62	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 111 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 2-7-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-2-11 oc bracing.
WEBS 1 Row at midpt 4-6

REACTIONS. (size) 1=0-3-8, 6=0-5-8
Max Horz 1=149(LC 8)
Max Uplift 1=-728(LC 5), 6=-976(LC 5)
Max Grav 1=1303(LC 1), 6=1575(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2559/1467, 2-3=-2381/1442, 3-4=-2122/1327, 5-6=-255/156
BOT CHORD 1-9=-1370/2264, 7-9=-1241/1997, 6-7=-1241/1997
WEBS 3-9=-374/638, 4-7=-204/518, 4-6=-2286/1421

NOTES-
1) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
3) 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.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 728 lb uplift at joint 1 and 976 lb uplift at joint 6.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 121 lb down and 120 lb up at 7-0-0, 121 lb down and 120 lb up at 9-0-12, 121 lb down and 120 lb up at 11-0-12, 121 lb down and 113 lb up at 13-0-12, and 121 lb down and 120 lb up at 15-0-12, and 121 lb down and 120 lb up at 17-0-12 on top chord, and 334 lb down and 331 lb up at 7-0-0, 88 lb down and 75 lb up at 9-0-12, 88 lb down and 75 lb up at 11-0-12, 88 lb down and 75 lb up at 13-0-12, and 88 lb down and 75 lb up at 15-0-12, and 88 lb down and 75 lb up at 17-0-12 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=-60, 3-5=-60, 1-6=-20

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October 2,2024

Continued on page 2

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LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 3=-121(B) 9=-334(B) 7=-67(B) 4=-121(B) 12=-121(B) 13=-121(B) 14=-121(B) 15=-121(B) 16=-67(B) 17=-67(B) 18=-67(B) 19=-67(B)

Job	Truss	Truss Type	Qty	Ply	LANDER RES. T35158298
4190707	T34	Half Hip	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:31 2024 Page 1
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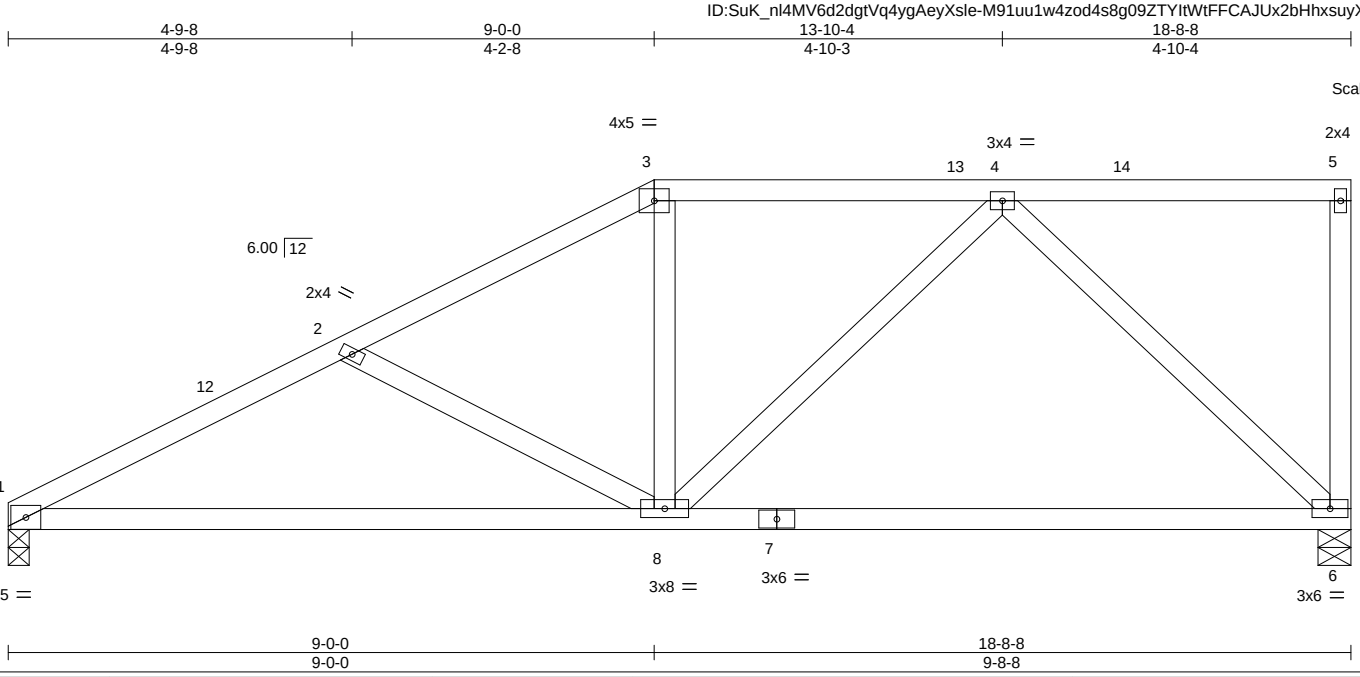

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.48	Vert(LL)	0.20	6-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.87	Vert(CT)	-0.38	6-8	>579	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 96 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 4-11-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-5-8 oc bracing.

REACTIONS. (size) 1=0-3-8, 6=0-5-8
Max Horz 1=192(LC 12)
Max Uplift 1=-321(LC 9), 6=-426(LC 9)
Max Grav 1=743(LC 1), 6=742(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1257/701, 2-3=-954/582, 3-4=-798/552
BOT CHORD 1-8=-758/1101, 6-8=-359/578
WEBS 2-8=-348/238, 4-8=-272/352, 4-6=-779/479

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 9-0-0, Zone2 9-0-0 to 13-2-15, Zone1 13-2-15 to 18-6-12 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) 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 321 lb uplift at joint 1 and 426 lb uplift at joint 6.

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Date:

October 2,2024

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Job	Truss	Truss Type	Qty	Ply	LANDER RES. T35158299
4190707	T35	Hip Girder	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:32 2024 Page 1
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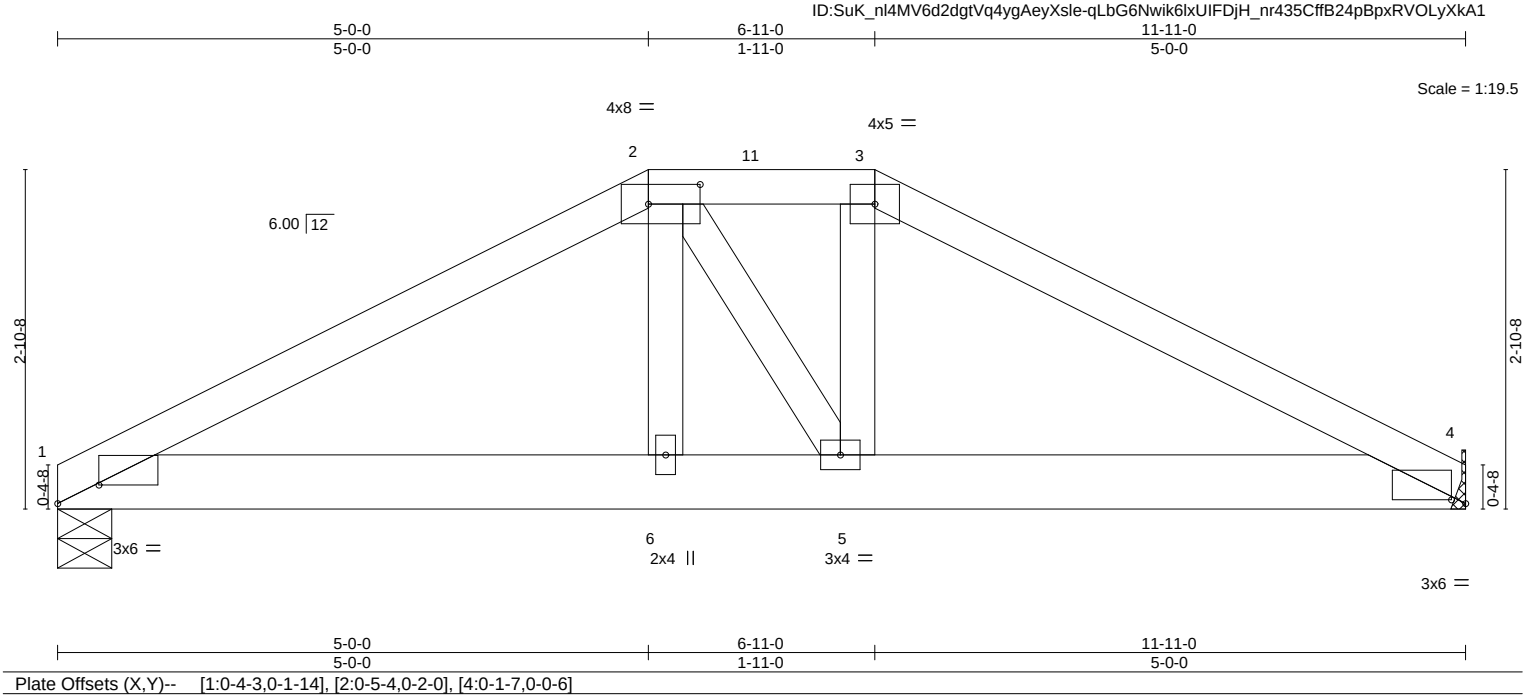

Plate Offsets (X,Y)-- [1:0-4-3,0-1-14], [2:0-5-4,0-2-0], [4:0-1-7,0-0-6]

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	0.27	Vert(LL)	0.03	6-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.37	Vert(CT)	-0.04	6-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.10	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 58 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 5-1-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=0-5-8, 4=Mechanical
Max Horz 1=-46(LC 9)
Max Uplift 1=-287(LC 8), 4=-291(LC 9)
Max Grav 1=658(LC 1), 4=671(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1122/525, 2-3=-987/512, 3-4=-1151/541
BOT CHORD 1-6=-443/951, 5-6=-448/962, 4-5=-440/977
WEBS 2-6=-84/261

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 287 lb uplift at joint 1 and 291 lb uplift at joint 4.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 83 lb down and 92 lb up at 5-0-0, and 191 lb down and 211 lb up at 6-11-0 on top chord, and 107 lb down and 69 lb up at 5-0-0, and 107 lb down and 69 lb up at 6-10-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-60, 3-4=-60, 1-4=-20
Concentrated Loads (lb)
Vert: 2=-64(F) 3=-144(F) 6=-84(F) 5=-84(F)

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Job	Truss	Truss Type	Qty	Ply	LANDER RES.
4190707	T36	Common	1	1	T35158300

Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:32 2024 Page 1
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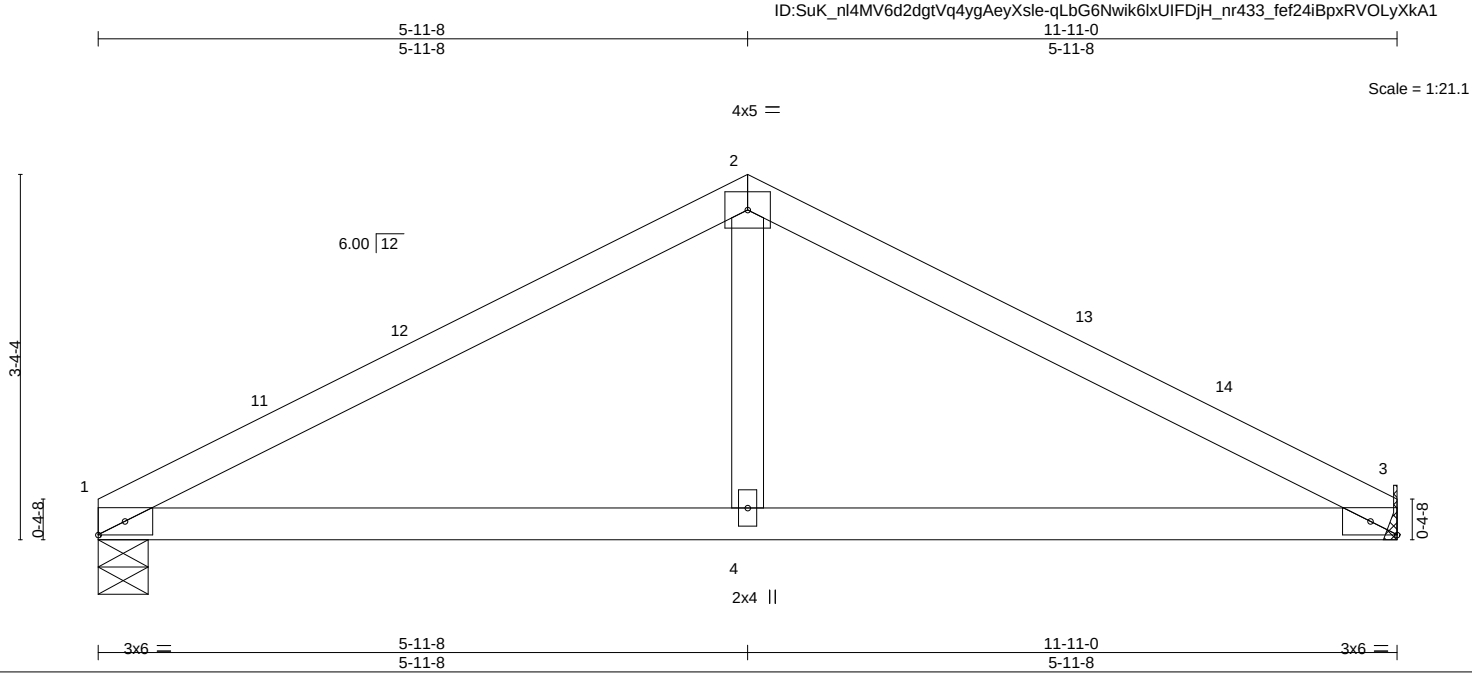

Plate Offsets (X,Y)-- [3:0-2-15,Edge]

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	0.41	Vert(LL)	-0.05	4-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.40	Vert(CT)	-0.08	4-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.01	3	n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-MS							Weight: 42 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) 1=0-5-8, 3=Mechanical
Max Horz 1=-55(LC 13)
Max Uplift 1=-133(LC 12), 3=-133(LC 13)
Max Grav 1=477(LC 1), 3=477(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-681/356, 2-3=-681/356
BOT CHORD 1-4=-212/548, 3-4=-212/548
WEBS 2-4=-41/280

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-0-0 to 3-0-0, Zone1 3-0-0 to 5-11-8, Zone2 5-11-8 to 10-2-7, Zone1 10-2-7 to 11-11-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 133 lb uplift at joint 1 and 133 lb uplift at joint 3.

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Date:

October 2,2024

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Job	Truss	Truss Type	Qty	Ply	LANDER RES.
4190707	V01	Valley	1	1	T35158301

Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:33 2024 Page 1
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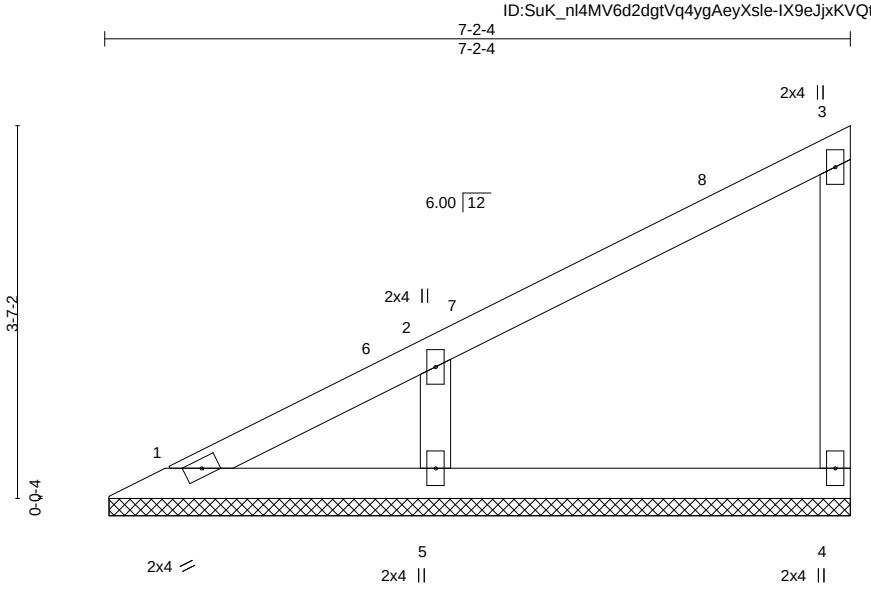

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-S							Weight: 28 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS. (size) 1=7-1-12, 4=7-1-12, 5=7-1-12
Max Horz 1=130(LC 12)
Max Uplift 4=-50(LC 12), 5=-149(LC 12)
Max Grav 1=68(LC 21), 4=131(LC 1), 5=315(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-5=-236/270

NOTES-

1) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-7-9 to 3-7-9, Zone1 3-7-9 to 7-0-8 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) Gable requires continuous bottom chord bearing.
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 50 lb uplift at joint 4 and 149 lb uplift at joint 5.

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Job	Truss	Truss Type	Qty	Ply	LANDER RES. T35158302
4190707	V02	Valley	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:33 2024 Page 1
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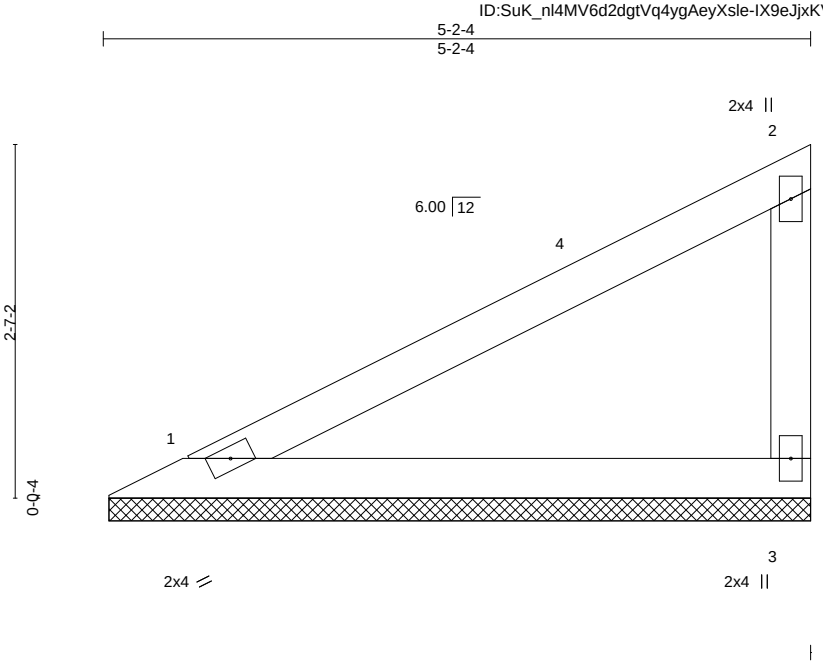

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.38	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.24	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		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 5-2-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=5-1-12, 3=5-1-12
Max Horz 1=94(LC 12)
Max Uplift 1=-38(LC 12), 3=-85(LC 12)
Max Grav 1=177(LC 1), 3=177(LC 1)

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

NOTES-
1) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-7-9 to 3-7-9, Zone1 3-7-9 to 5-0-8 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) Gable requires continuous bottom chord bearing.
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 38 lb uplift at joint 1 and 85 lb uplift at joint 3.

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Job	Truss	Truss Type	Qty	Ply	LANDER RES. T35158303
4190707	V03	Valley	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:33 2024 Page 1
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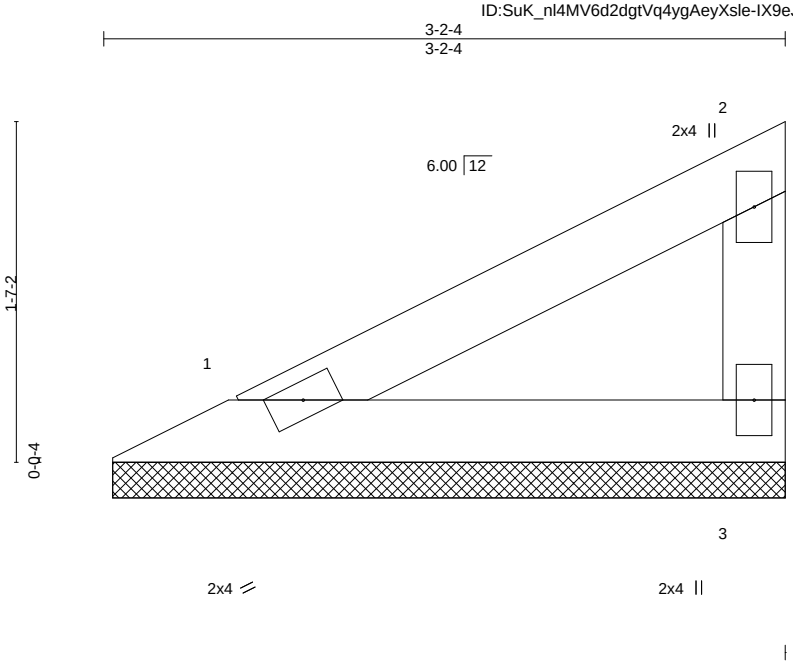

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-P							Weight: 10 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 3-2-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=3-1-12, 3=3-1-12
Max Horz 1=51(LC 12)
Max Uplift 1=-21(LC 12), 3=-47(LC 12)
Max Grav 1=97(LC 1), 3=97(LC 1)

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

NOTES-
1) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; 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) Gable requires continuous bottom chord bearing.
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 21 lb uplift at joint 1 and 47 lb uplift at joint 3.

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Job	Truss	Truss Type	Qty	Ply	LANDER RES. T35158304
4190707	V04	Valley	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:34 2024 Page 1
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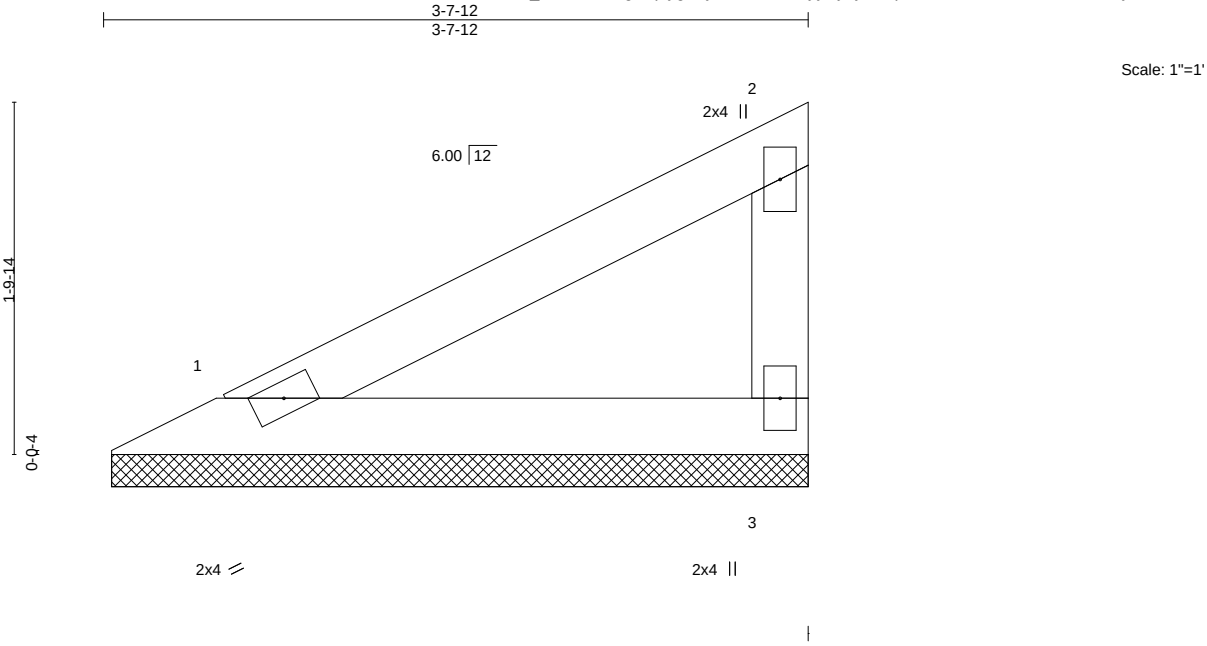

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-P							Weight: 12 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 3-7-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=3-7-4, 3=3-7-4
Max Horz 1=61(LC 12)
Max Uplift 1=-25(LC 12), 3=-56(LC 12)
Max Grav 1=115(LC 1), 3=115(LC 1)

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

NOTES-
1) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; 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) Gable requires continuous bottom chord bearing.
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 25 lb uplift at joint 1 and 56 lb uplift at joint 3.

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October 2,2024

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Job	Truss	Truss Type	Qty	Ply	LANDER RES. T35158305
4190707	V05	Valley	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:34 2024 Page 1
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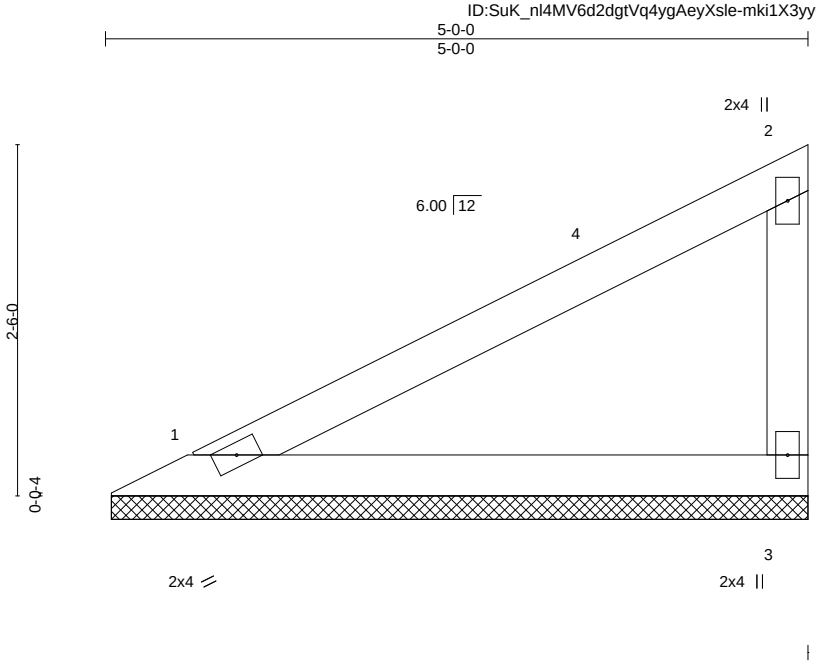

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
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TCDL	10.0	Lumber DOL	1.25	BC	0.22	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-P							Weight: 17 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 5-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=4-11-8, 3=4-11-8
Max Horz 1=90(LC 12)
Max Uplift 1=-37(LC 12), 3=-82(LC 12)
Max Grav 1=169(LC 1), 3=169(LC 1)

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

NOTES-
1) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 0-7-9 to 3-7-9, Zone1 3-7-9 to 4-10-4 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) Gable requires continuous bottom chord bearing.
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 37 lb uplift at joint 1 and 82 lb uplift at joint 3.

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Job	Truss	Truss Type	Qty	Ply	LANDER RES. T35158306
4190707	V06	Valley	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.730 s Aug 15 2024 MiTek Industries, Inc. Tue Oct 1 16:13:34 2024 Page 1
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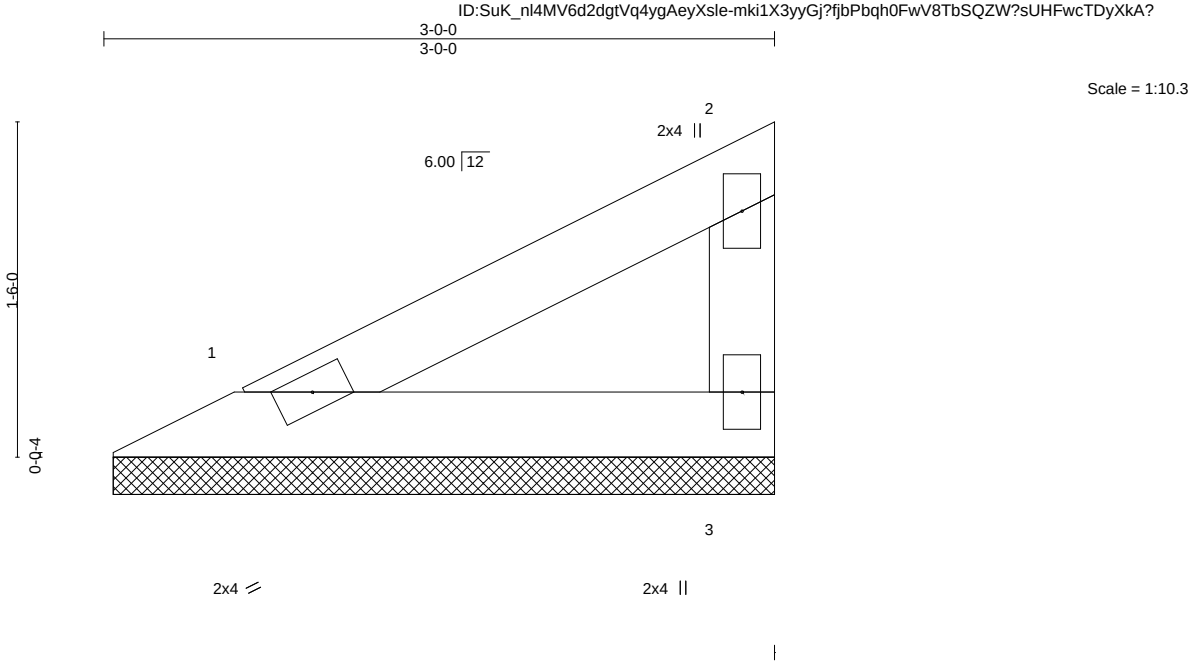

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-P							Weight: 10 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 3-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=2-11-8, 3=2-11-8
Max Horz 1=47(LC 12)
Max Uplift 1=-19(LC 12), 3=-43(LC 12)
Max Grav 1=89(LC 1), 3=89(LC 1)

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

NOTES-
1) Wind: ASCE 7-22; Vult=120mph (3-second gust) Vasd=93mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; 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) Gable requires continuous bottom chord bearing.
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 19 lb uplift at joint 1 and 43 lb uplift at joint 3.

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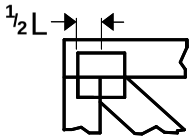
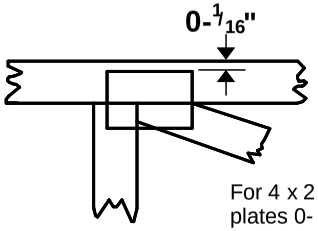
Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

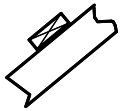
* Plate location details available in MiTek software or upon request.

PLATE SIZE

4 x 4

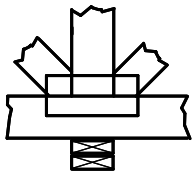
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING

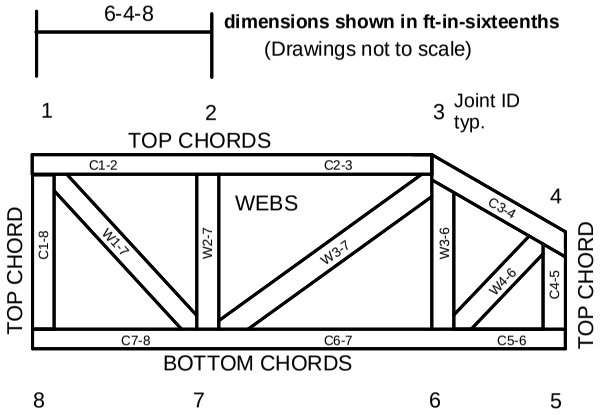


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

MiTek®

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.