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

RE: 3264860 - IC CONST. - HOSFORD RES.

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

Site Information:

Customer Info: IC CONSTRUCTION Project Name: Hosford Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: 874 NW Lake Valley Terrace, 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: FBC2020/TPI2014 Design Program: MiTek 20/20 8.5
Wind Code: ASCE 7-16 Wind Speed: 130 mph
Roof Load: 37.0 psf Floor Load: 55.0 psf

This package includes 39 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	T29088660	EJ01	10/31/22	15	T29088674	T02	10/31/22
2	T29088661	F01	10/31/22	16	T29088675	T03	10/31/22
3	T29088662	F02	10/31/22	17	T29088676	T04	10/31/22
4	T29088663	F03	10/31/22	18	T29088677	T05	10/31/22
5	T29088664	F04	10/31/22	19	T29088678	T06	10/31/22
6	T29088665	F05	10/31/22	20	T29088679	T07	10/31/22
7	T29088666	F06	10/31/22	21	T29088680	T08	10/31/22
8	T29088667	KW6	10/31/22	22	T29088681	T08G	10/31/22
9	T29088668	PB01	10/31/22	23	T29088682	T09	10/31/22
10	T29088669	PB01G	10/31/22	24	T29088683	T09G	10/31/22
11	T29088670	PB02	10/31/22	25	T29088684	T10	10/31/22
12	T29088671	PB02G	10/31/22	26	T29088685	T11	10/31/22
13	T29088672	T01	10/31/22	27	T29088686	T12G	10/31/22
14	T29088673	T01G	10/31/22	28	T29088687	T13	10/31/22

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature.
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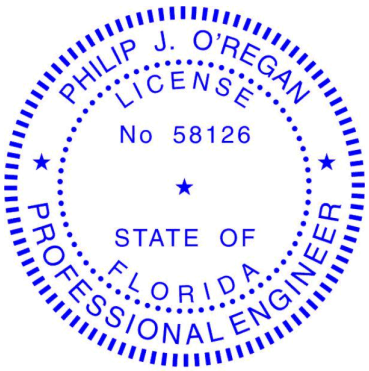
The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource-Lake City, FL.

Truss Design Engineer's Name: ORegan, Philip
My license renewal date for the state of Florida is February 28, 2023.

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



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

October 31,2022

RE: 3264860 - IC CONST. - HOSFORD RES.

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

Site Information:

Customer Info: IC CONSTRUCTION Project Name: Hosford Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: 874 NW Lake Valley Terrace, N/A
City: Columbia Cty State: FL

No.	Seal#	Truss Name	Date
29	T29088688	T13G	10/31/22
30	T29088689	T14	10/31/22
31	T29088690	T15	10/31/22
32	T29088691	T15G	10/31/22
33	T29088692	T16	10/31/22
34	T29088693	T17	10/31/22
35	T29088694	T18	10/31/22
36	T29088695	T19	10/31/22
37	T29088696	T20	10/31/22
38	T29088697	T20G	10/31/22
39	T29088698	TG01	10/31/22

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES. T29088660
3264860	EJ01	Jack-Open	8	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:20:46 2022 Page 1
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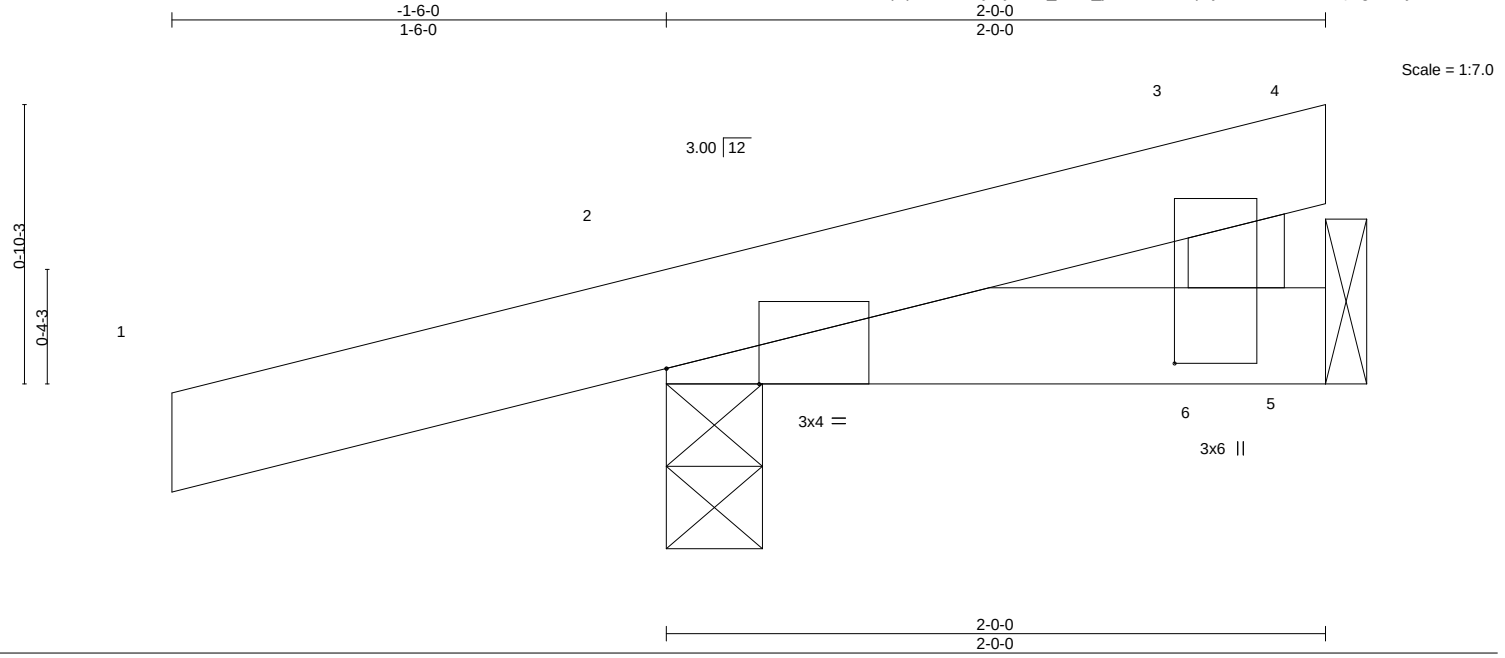

Plate Offsets (X,Y)-- [2:0-3-6,Edge], [6:0-0-3,1-6-8]

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	0.12	Vert(LL)	-0.00	9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	-0.00	9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MP							Weight: 9 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 2-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 5=Mechanical
Max Horz 2=36(LC 8)
Max Uplift 2=-104(LC 8), 5=-10(LC 12)
Max Grav 2=184(LC 1), 5=46(LC 3)

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

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 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 104 lb uplift at joint 2 and 10 lb uplift at joint 5.

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

October 31,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES. T29088661
3264860	F01	FLOOR	3	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:20:47 2022 Page 1
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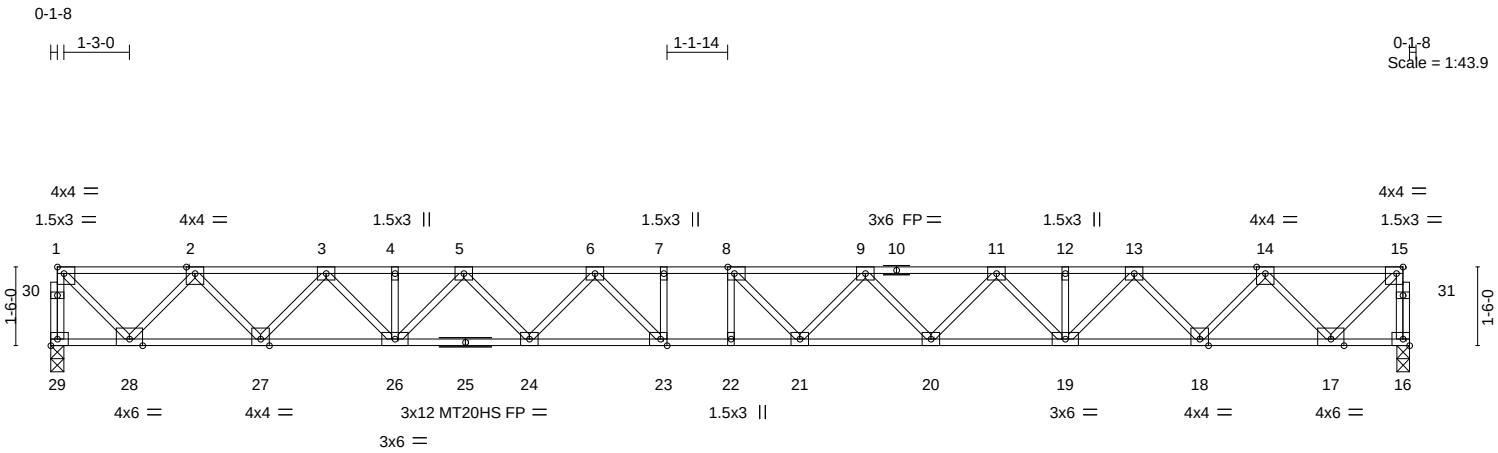

1-6-0	4-0-0	9-1-8	14-3-6	16-9-6	21-10-14	24-4-14	25-10-14
1-6-0	2-6-0	5-1-8	5-1-14	2-6-0	5-1-8	2-6-0	1-6-0

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [8:0-1-8,Edge], [15:0-1-8,Edge], [23:0-1-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.28	Vert(LL)	-0.41	22	>745	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.55	Vert(CT)	-0.57	21-22	>542	240	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.09	16	n/a	n/a		
BCDL	5.0	Code FBC2020/TPI2014		Matrix-S							Weight: 141 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP M 31(flat)
BOT CHORD 2x4 SP M 31(flat)
WEBS 2x4 SP No.3(flat)

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) 29=0-3-0, 16=0-2-14
Max Grav 29=937(LC 1), 16=937(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-29=-933/0, 15-16=-933/0, 1-2=-867/0, 2-3=-2234/0, 3-4=-3293/0, 4-5=-3293/0, 5-6=-3968/0, 6-7=-4365/0, 7-8=-4365/0, 8-9=-4314/0, 9-11=-3975/0, 11-12=-3294/0, 12-13=-3294/0, 13-14=-2235/0, 14-15=-867/0
BOT CHORD 27-28=0/1640, 26-27=0/2814, 24-26=0/3709, 23-24=0/4220, 22-23=0/4365, 21-22=0/4365, 20-21=0/4231, 19-20=0/3706, 18-19=0/2813, 17-18=0/1640
WEBS 15-17=0/1194, 1-28=0/1194, 14-17=-1149/0, 2-28=-1149/0, 14-18=0/884, 2-27=0/884, 13-18=-860/0, 3-27=-861/0, 13-19=0/696, 3-26=0/695, 11-19=-596/0, 5-26=-603/0, 11-20=0/400, 5-24=0/384, 9-20=-381/0, 6-24=-397/0, 9-21=-83/295, 6-23=-141/467, 8-21=-343/207

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) All plates are 3x4 MT20 unless otherwise indicated.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 16.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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

October 31,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES. T29088662
3264860	F02	Floor Girder	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:20:49 2022 Page 1
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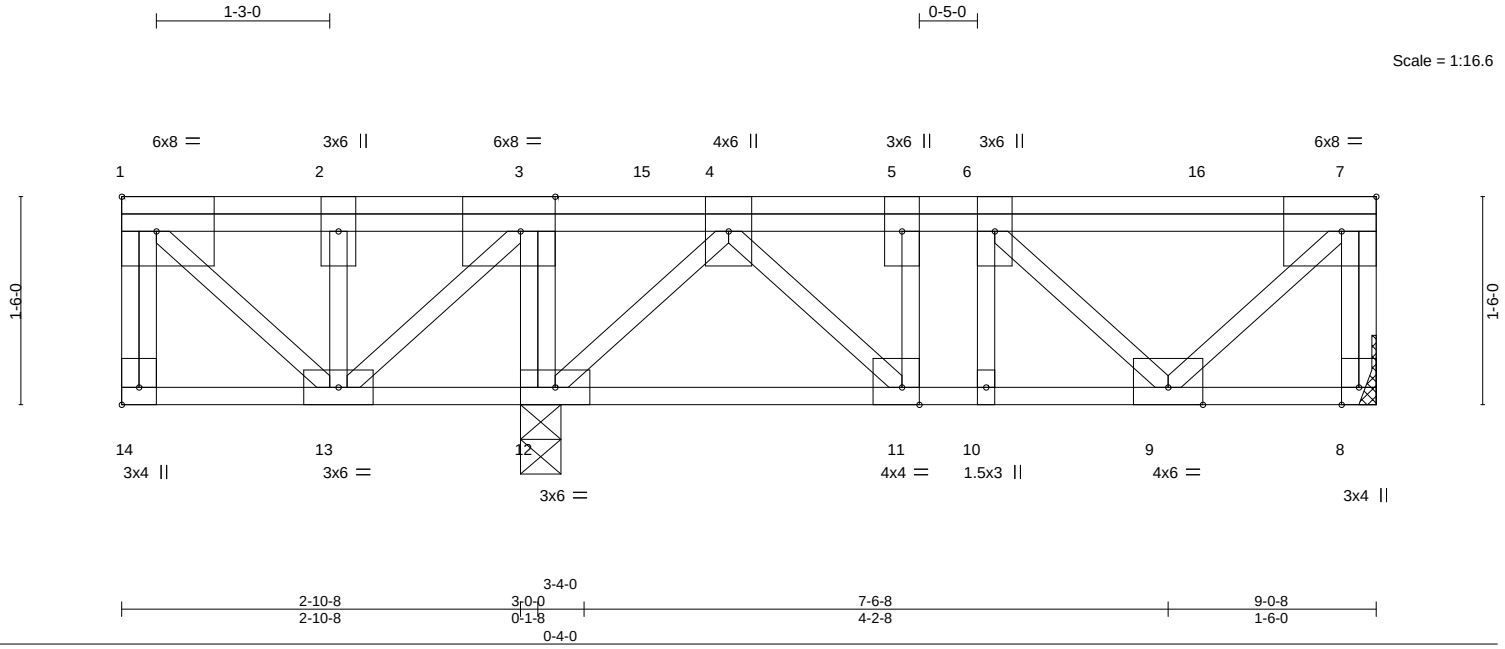

Plate Offsets (X,Y)-- [3:0-3-0,Edge], [7:0-3-0,Edge], [11:0-1-8,Edge], [14:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.39	Vert(LL)	-0.02	10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.30	Vert(CT)	-0.02	9-10	>999	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.55	Horz(CT)	0.01	8	n/a	n/a		
BCDL	5.0	Code FBC2020/TPI2014		Matrix-S							Weight: 70 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP M 31(flat)
BOT CHORD 2x4 SP M 31(flat)
WEBS 2x4 SP No.3(flat)

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, Except: 6-0-0 oc bracing: 12-13.

REACTIONS. (size) 8=Mechanical, 12=0-3-8
Max Grav 8=1288(LC 4), 12=2160(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 7-8=-1288/0, 3-4=0/563, 4-5=-1582/0, 5-6=-1582/0, 6-7=-840/0
BOT CHORD 12-13=-563/0, 11-12=0/1025, 10-11=0/1582, 9-10=0/1582
WEBS 3-12=-991/0, 3-13=0/549, 7-9=0/1162, 6-9=-1048/0, 4-12=-1667/0, 5-11=-536/0, 4-11=0/1015

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) CAUTION, Do not erect truss backwards.
5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 577 lb down at 3-10-4, and 578 lb down at 5-10-4, and 578 lb down at 7-10-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
6) 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 + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 8-14=-10, 1-7=-200(F=-100)
Concentrated Loads (lb)
Vert: 5=-498(F) 15=-498(F) 16=-498(F)

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

October 31,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES. T29088663
3264860	F03	Floor Girder	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:20:49 2022 Page 1
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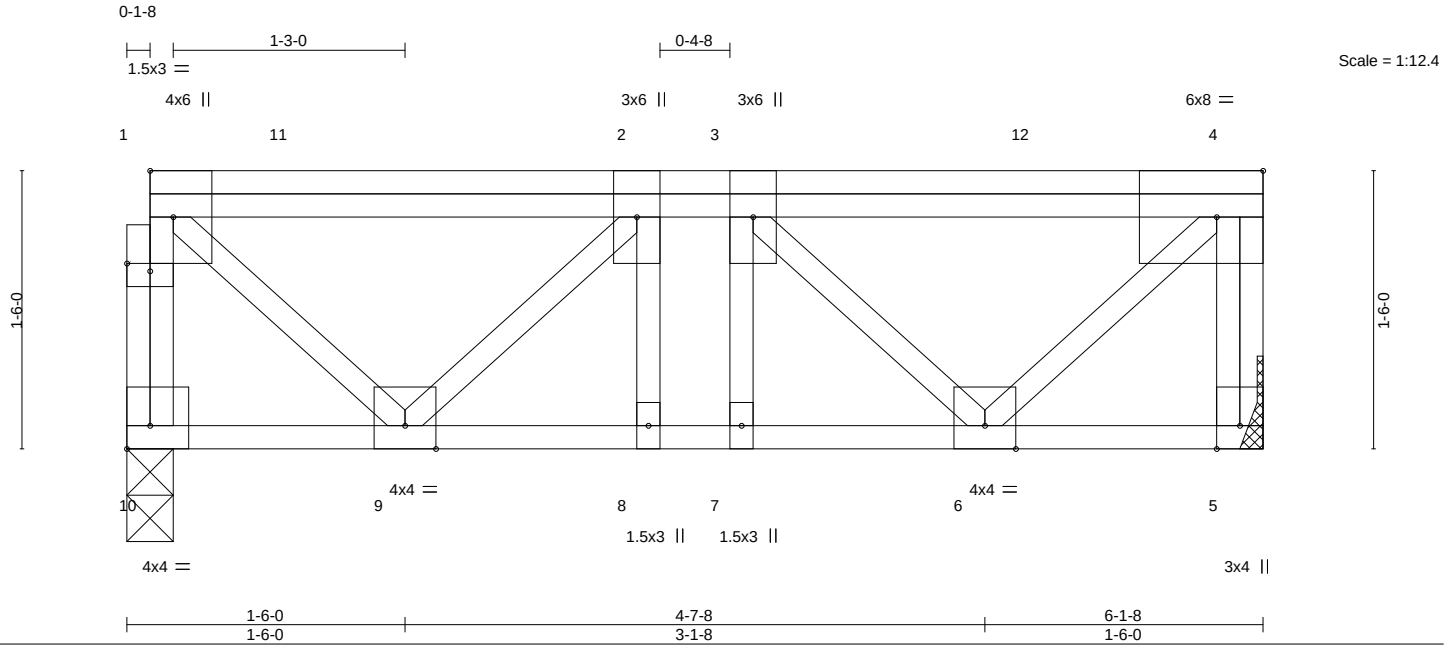

Plate Offsets (X,Y)-- [1:0-1-8,0-0-8], [4:0-3-0,Edge], [10:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.28	Vert(LL)	-0.01	8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.23	Vert(CT)	-0.02	8	>999	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.48	Horz(CT)	0.01	5	n/a	n/a		
BCDL	5.0	Code FBC2020/TPI2014		Matrix-S							Weight: 47 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP M 31(flat)
BOT CHORD 2x4 SP M 31(flat)
WEBS 2x4 SP No.3(flat)

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) 10=0-3-0, 5=Mechanical
Max Grav 10=1122(LC 1), 5=1067(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-1117/0, 4-5=-1061/0, 1-2=-738/0, 2-3=-1398/0, 3-4=-723/0
BOT CHORD 8-9=0/1398, 7-8=0/1398, 6-7=0/1398
WEBS 4-6=0/1000, 1-9=0/1009, 3-6=-955/0, 2-9=-937/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) CAUTION, Do not erect truss backwards.
5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 372 lb down at 0-11-4, and 340 lb down at 2-11-4, and 372 lb down at 4-11-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
6) 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 + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-10=-10, 1-4=-200(F=-100)
Concentrated Loads (lb)
Vert: 2=-318(B) 11=-318(B) 12=-318(B)

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

October 31,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES. T29088664
3264860	F04	Floor	3	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:20:50 2022 Page 1
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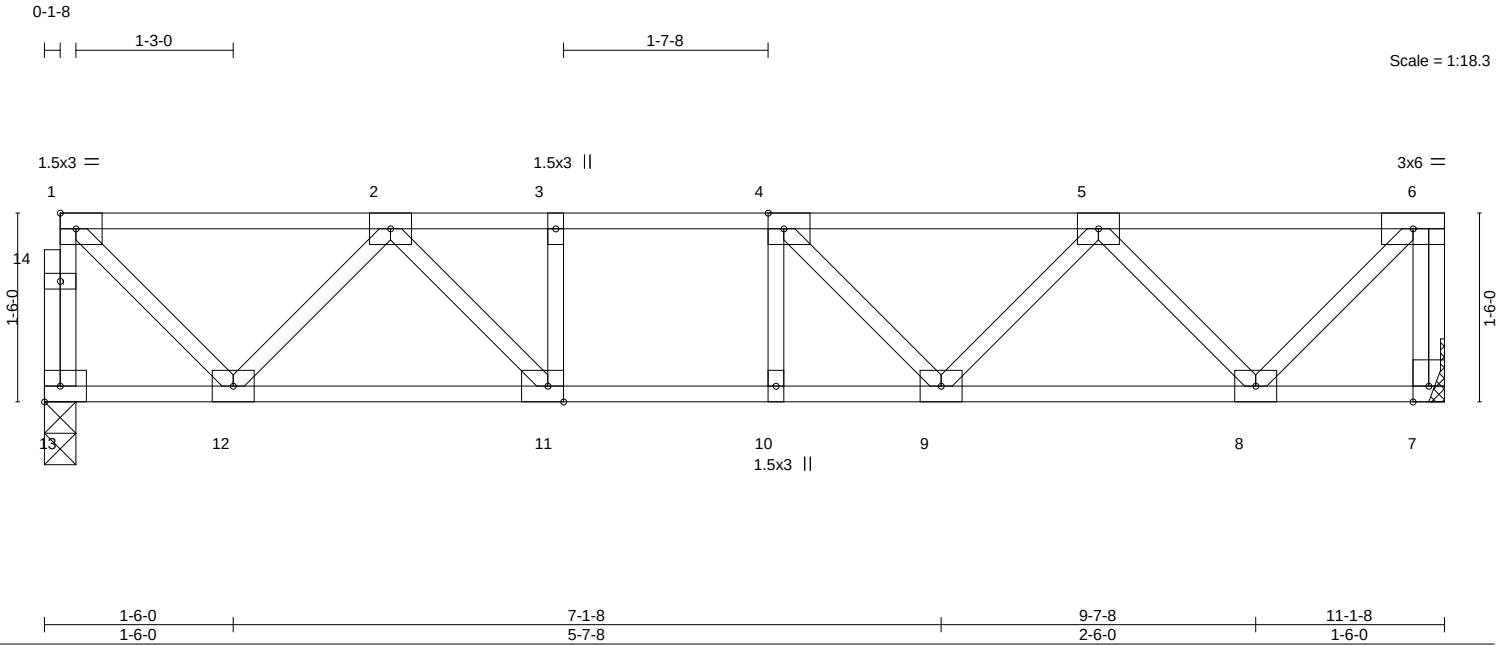

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [11:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.45	Vert(LL)	-0.07	9-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.68	Vert(CT)	-0.09	9-10	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	FBC2020/TPI2014	Matrix-S							Weight: 62 lb	FT = 20%F, 11%E

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

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) 13=0-3-0, 7=Mechanical
Max Grav 13=592(LC 1), 7=598(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-13=-580/0, 6-7=-591/0, 1-2=-476/0, 2-3=-1152/0, 3-4=-1152/0, 4-5=-1064/0, 5-6=-490/0
BOT CHORD 11-12=0/907, 10-11=0/1152, 9-10=0/1152, 8-9=0/922
WEBS 6-8=0/693, 1-12=0/651, 5-8=-642/0, 2-12=-641/0, 2-11=0/463

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Refer to girder(s) for truss to truss connections.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.

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

October 31,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES. T29088665
3264860	F05	Floor	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:20:51 2022 Page 1
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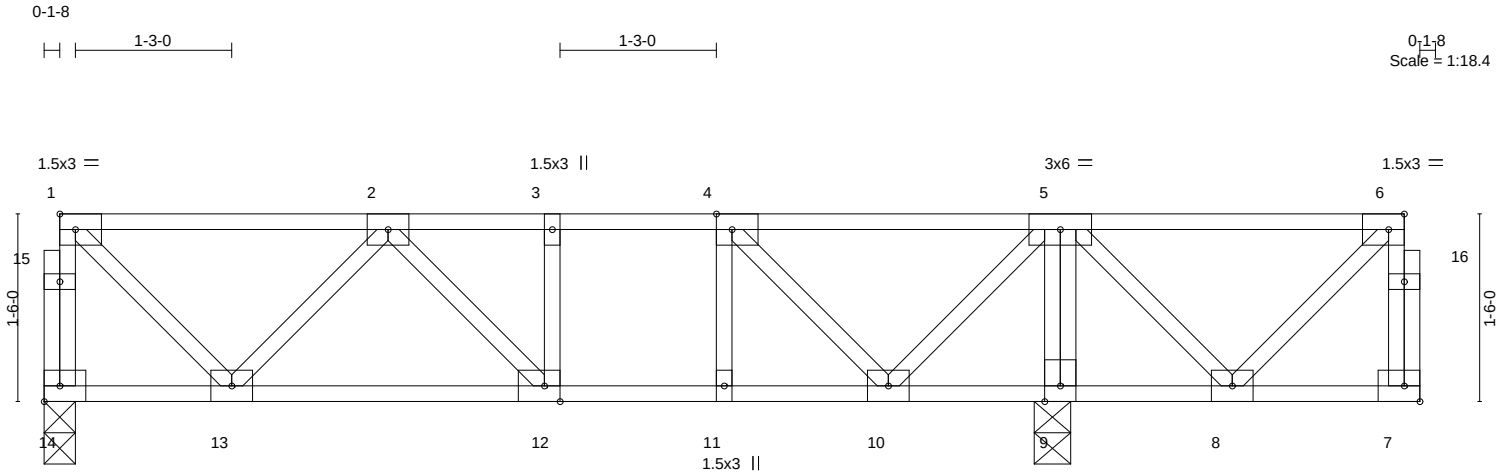

TRUSS IS NOT DESIGNED TO SUPPORT CONCENTRATED LOADS AT ITS CANTILEVERED END(S).

	1-6-0	6-9-0	8-1-8	8-2-8	9-6-0	11-0-0
	1-6-0	5-3-0	1-4-8	0-1-0	1-3-8	1-6-0

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

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.49	Vert(LL)	-0.05	12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.48	Vert(CT)	-0.06	12-13	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.00	9	n/a	n/a		
BCDL	5.0	Code	FBC2020/TPI2014	Matrix-S							Weight: 65 lb	FT = 20%F, 11%E

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 13-14,12-13.

REACTIONS. (size) 14=0-3-0, 9=0-3-8
Max Grav 14=420(LC 3), 9=786(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-419/0, 1-2=-320/0, 2-3=-576/2, 3-4=-576/2, 4-5=-267/135
BOT CHORD 12-13=0/577, 11-12=-2/576, 10-11=-2/576, 9-10=-251/0, 8-9=-251/0
WEBS 5-9=-754/0, 1-13=0/436, 5-10=0/470, 2-13=-383/0, 4-10=-505/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) CAUTION, Do not erect truss backwards.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 31,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES. T29088666
3264860	F06	Floor	3	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:20:52 2022 Page 1
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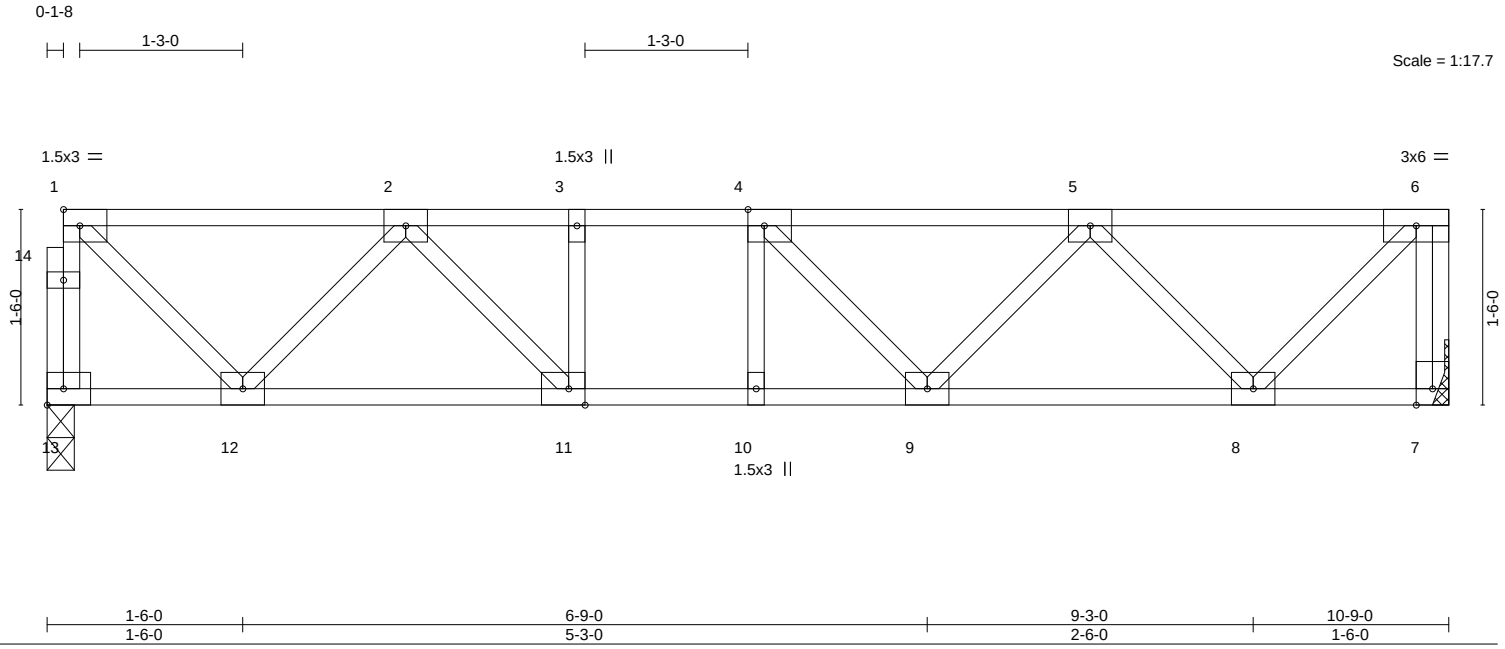

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [11:0-1-8,Edge]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.29	Vert(LL)	-0.03	9-10	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.39	Vert(CT)	-0.05	9-10	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.01	7	n/a	n/a		
BCDL	5.0	Code	FBC2020/TPI2014	Matrix-S							Weight: 61 lb	FT = 20%F, 11%E

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

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) 13=0-2-8, 7=Mechanical
Max Grav 13=381(LC 1), 7=385(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-13=-374/0, 6-7=-381/0, 1-2=-305/0, 2-3=-719/0, 3-4=-719/0, 4-5=-671/0, 5-6=-313/0
BOT CHORD 11-12=0/579, 10-11=0/719, 9-10=0/719, 8-9=0/588
WEBS 6-8=0/443, 1-12=0/417, 5-8=-409/0, 2-12=-407/0, 2-11=0/272

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 13.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

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October 31,2022

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES. T29088667
3264860	KW6	GABLE	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:20:52 2022 Page 1
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0-1-8

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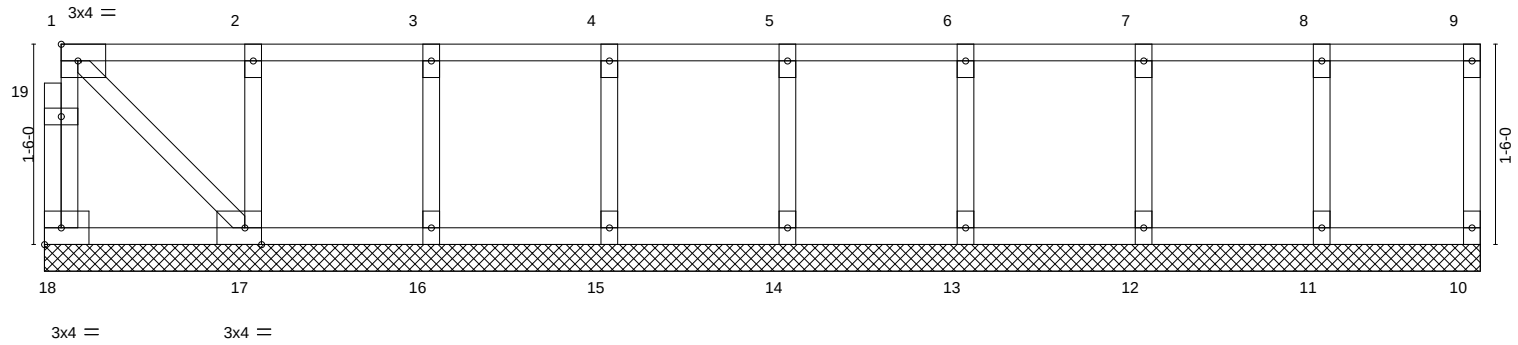

1-6-12	2-10-12	4-2-12	5-6-12	6-10-12	8-2-12	9-6-12	10-9-0
1-6-12	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-2-4

Plate Offsets (X,Y)-- [17:0-1-8,Edge]

LOADING (psf)		**SPACING-**	1-4-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	10	n/a	n/a		
BCDL	5.0	Code FBC2020/TPI2014		Matrix-S							Weight: 53 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

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

REACTIONS. All bearings 10-9-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 18, 10, 17, 16, 15, 14, 13, 12, 11

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

NOTES-
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.

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October 31,2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES.
3264860	PB01	Piggyback	20	1	T29088668
					Job Reference (optional)

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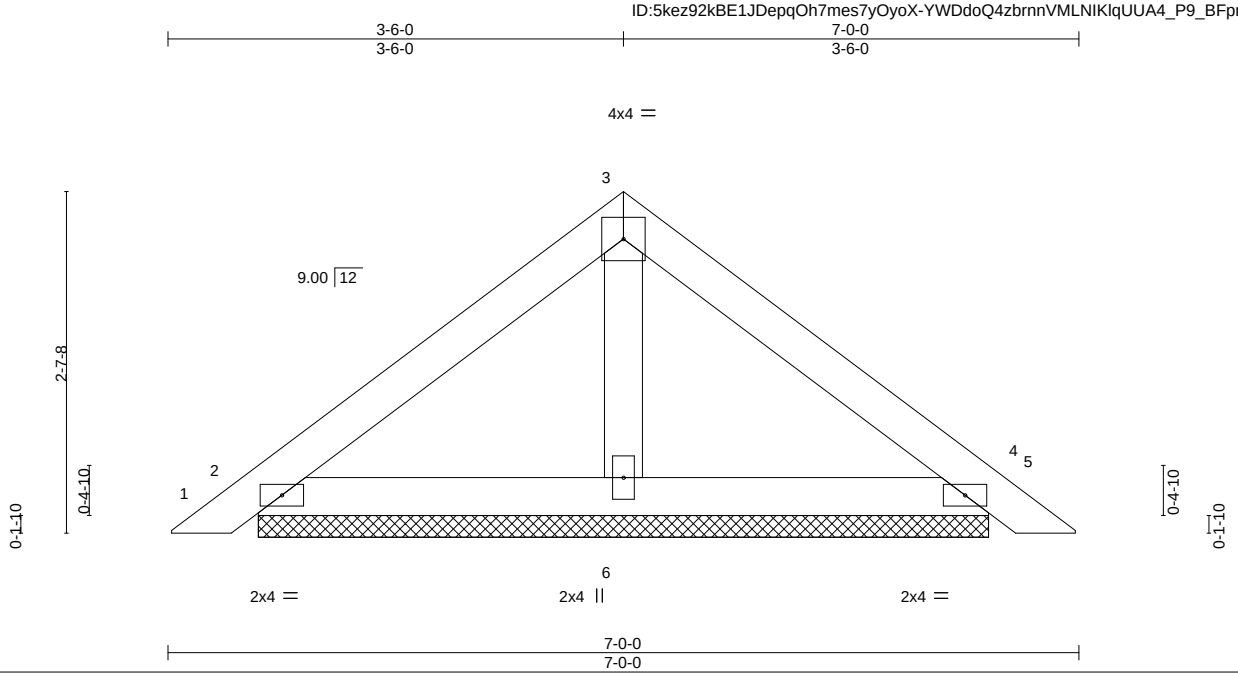

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.14	Vert(LL)	0.00	5	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.08	Vert(CT)	0.00	5	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-P							Weight: 24 lb	FT = 20%

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

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

REACTIONS. (size) 2=5-7-5, 4=5-7-5, 6=5-7-5
Max Horz 2=57(LC 11)
Max Uplift 2=-48(LC 12), 4=-56(LC 13), 6=-14(LC 12)
Max Grav 2=140(LC 1), 4=140(LC 1), 6=182(LC 1)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 2, 56 lb uplift at joint 4 and 14 lb uplift at joint 6.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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October 31,2022

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES. T29088669
3264860	PB01G	GABLE	2	1	Job Reference (optional)

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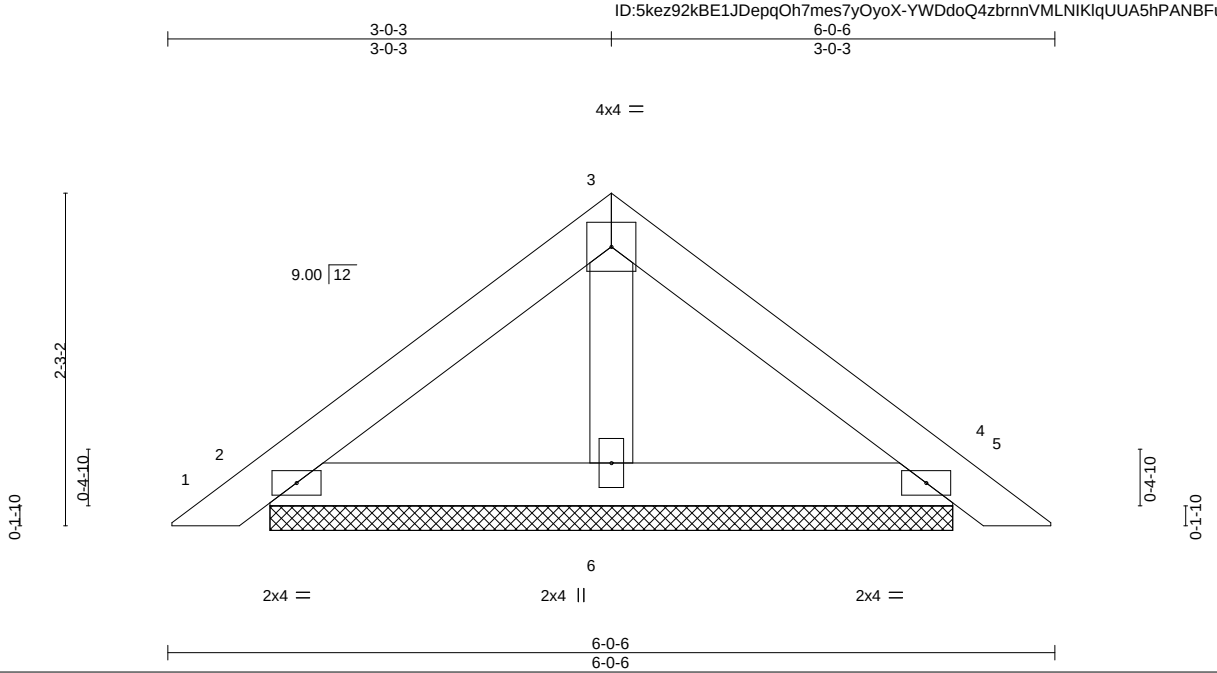

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.10	Vert(LL)	0.00	5	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	0.00	5	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-P							Weight: 20 lb	FT = 20%

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

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

REACTIONS. (size) 2=4-7-11, 4=4-7-11, 6=4-7-11
Max Horz 2=49(LC 11)
Max Uplift 2=-42(LC 12), 4=-48(LC 13), 6=-11(LC 12)
Max Grav 2=121(LC 1), 4=121(LC 1), 6=150(LC 1)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 2, 48 lb uplift at joint 4 and 11 lb uplift at joint 6.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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Date:

October 31,2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES. T29088670
3264860	PB02	Piggyback	14	1	Job Reference (optional)

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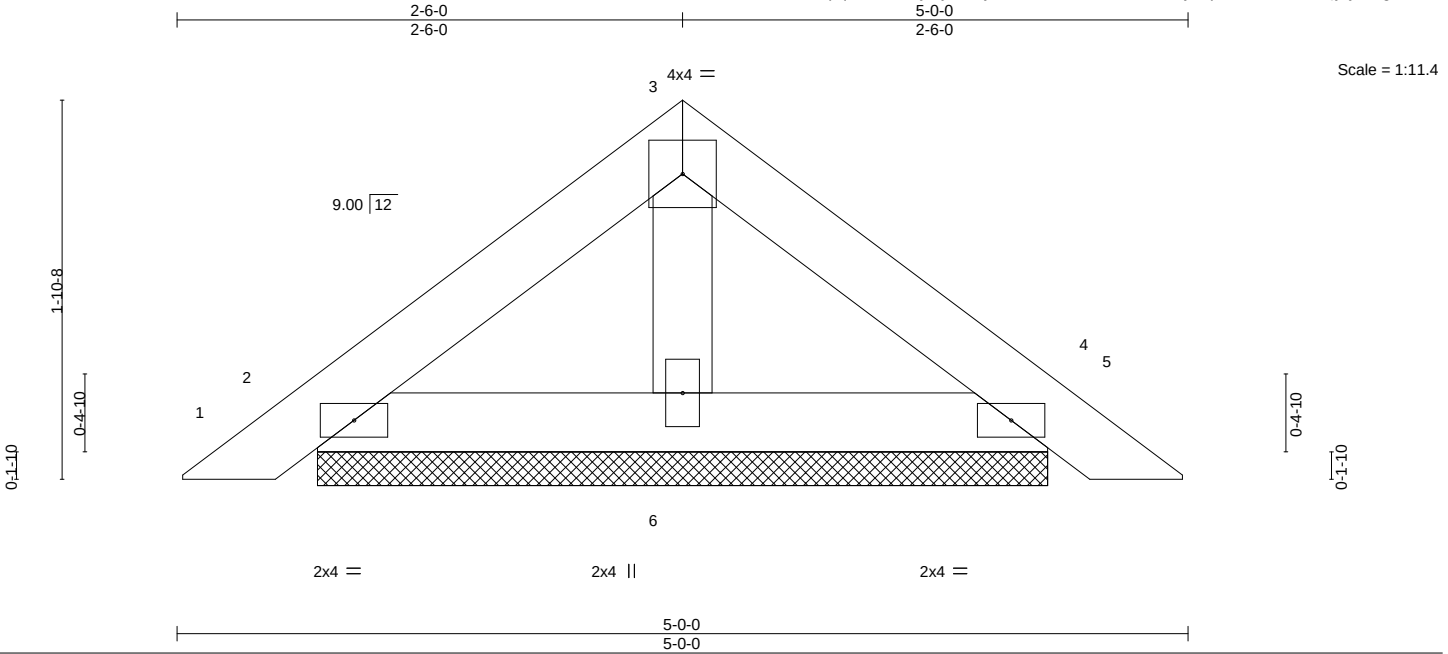

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.06	Vert(LL)	0.00	4	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	0.00	5	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-P							Weight: 16 lb	FT = 20%

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

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) 2=3-7-5, 4=3-7-5, 6=3-7-5
Max Horz 2=39(LC 11)
Max Uplift 2=-36(LC 12), 4=-41(LC 13), 6=-7(LC 12)
Max Grav 2=100(LC 1), 4=100(LC 1), 6=115(LC 1)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 2, 41 lb uplift at joint 4 and 7 lb uplift at joint 6.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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October 31,2022

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES. T29088671
3264860	PB02G	GABLE	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:20:56 2022 Page 1
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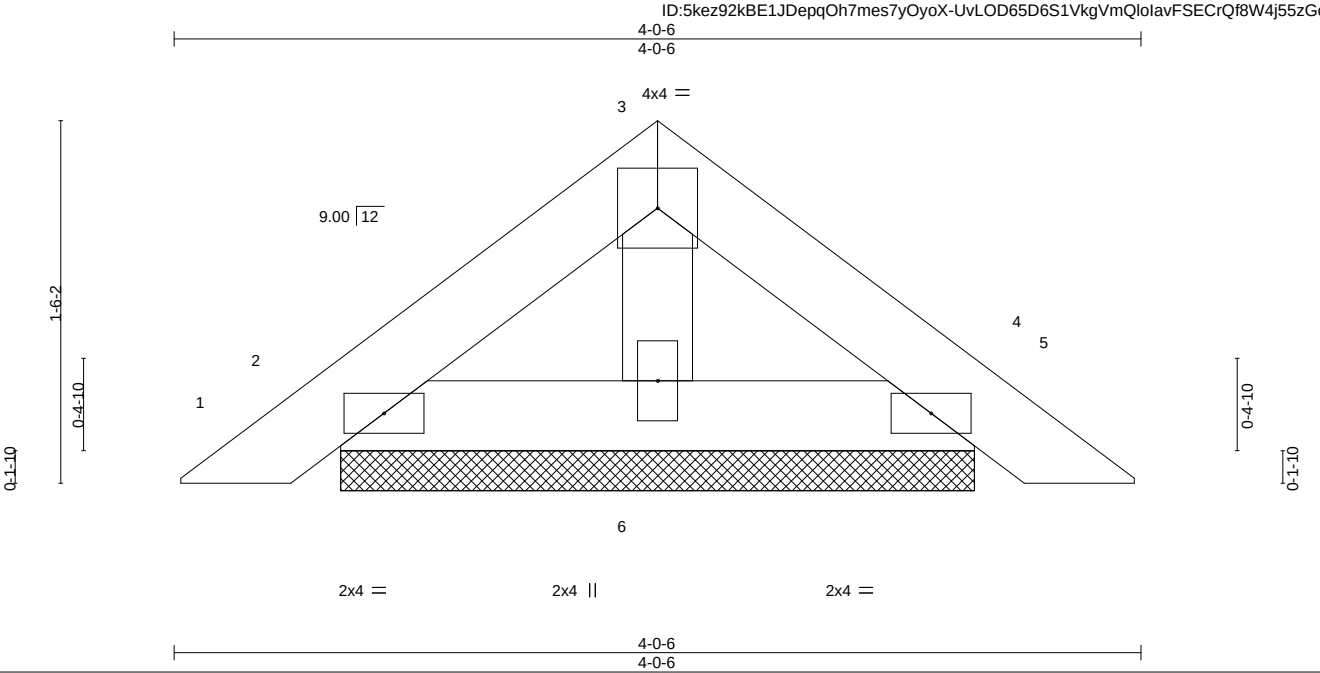

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.03	Vert(LL)	0.00	4	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.02	Vert(CT)	0.00	4	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		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 4-0-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=2-7-11, 4=2-7-11, 6=2-7-11
Max Horz 2=31(LC 11)
Max Uplift 2=-30(LC 12), 4=-34(LC 13), 6=-4(LC 12)
Max Grav 2=81(LC 1), 4=81(LC 1), 6=82(LC 1)

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

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 2, 34 lb uplift at joint 4 and 4 lb uplift at joint 6.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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

October 31,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES. T29088672
3264860	T01	Attic	4	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:20:58 2022 Page 1
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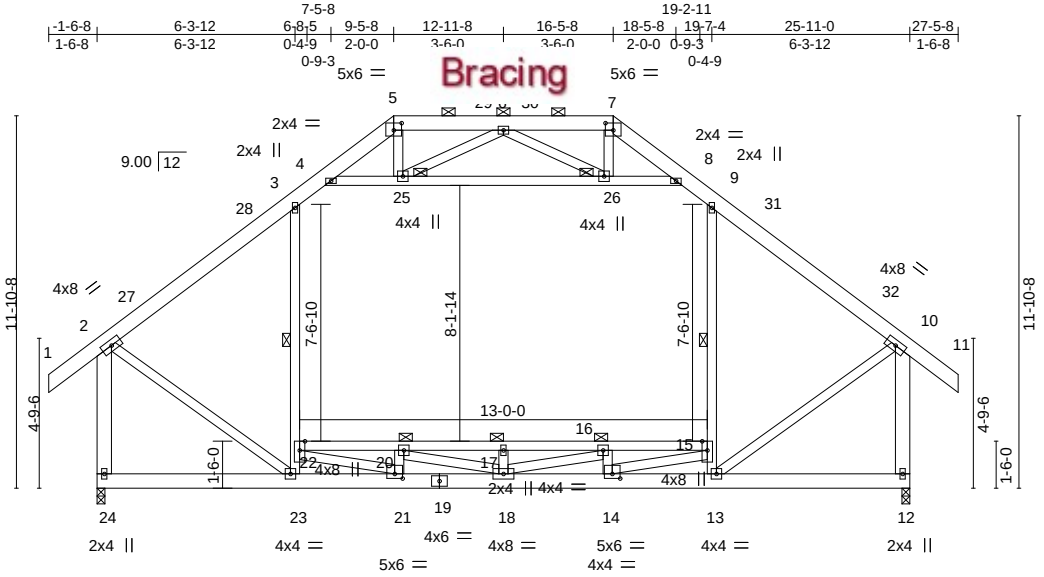

Plate Offsets (X,Y)-- [5:0-3-0,0-2-12], [7:0-3-0,0-2-12], [14:0-3-0,0-1-12], [21:0-3-0,0-1-12]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.30	Vert(LL)	-0.19	23	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.98	Vert(CT)	-0.22	17	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.02	12	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS		Attic	-0.10	15-22	1552	360	Weight: 281 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
15-22: 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-24,10-12: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 3-22, 9-15
JOINTS 1 Brace at Jt(s): 25, 26, 17, 20, 16

REACTIONS. (size) 24=0-3-0, 12=0-3-0
Max Horz 24=-347(LC 10)
Max Uplift 24=-14(LC 12), 12=-14(LC 13)
Max Grav 24=1688(LC 2), 12=1688(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1311/21, 3-4=-996/110, 4-5=-503/179, 5-6=-375/211, 6-7=-375/211, 7-8=-503/179, 8-9=-996/110, 9-10=-1311/21, 2-24=-1659/45, 10-12=-1659/46
BOT CHORD 23-24=-341/339, 21-23=-99/1126, 18-21=0/2657, 14-18=0/2552, 13-14=0/991, 20-22=-1683/0, 17-20=-2353/0, 16-17=-2353/0, 15-16=-1683/0
WEBS 22-23=-478/36, 3-22=-76/473, 13-15=-478/36, 9-15=-76/473, 4-25=-908/98, 25-26=-746/0, 8-26=-909/98, 2-23=0/1244, 10-13=0/1245, 6-25=-298/202, 6-26=-298/202, 17-18=-370/0, 20-21=-663/0, 14-16=-663/0, 21-22=0/1789, 18-20=-106/788, 16-18=-119/798, 14-15=0/1789

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 9-5-8, Exterior(2R) 9-5-8 to 13-8-7, Interior(1) 13-8-7 to 16-5-8, Exterior(2R) 16-5-8 to 20-8-7, Interior(1) 20-8-7 to 27-5-8 zone; end vertical 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) Ceiling dead load (5.0 psf) on member(s). 3-4, 8-9, 4-25, 25-26, 8-26; Wall dead load (5.0psf) on member(s).3-22, 9-15
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 20-22, 17-20, 16-17, 15-16
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 24 and 14 lb uplift at joint 12.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Attic room checked for L/360 deflection.

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

October 31,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES. T29088673
3264860	T01G	GABLE	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:21:02 2022 Page 1
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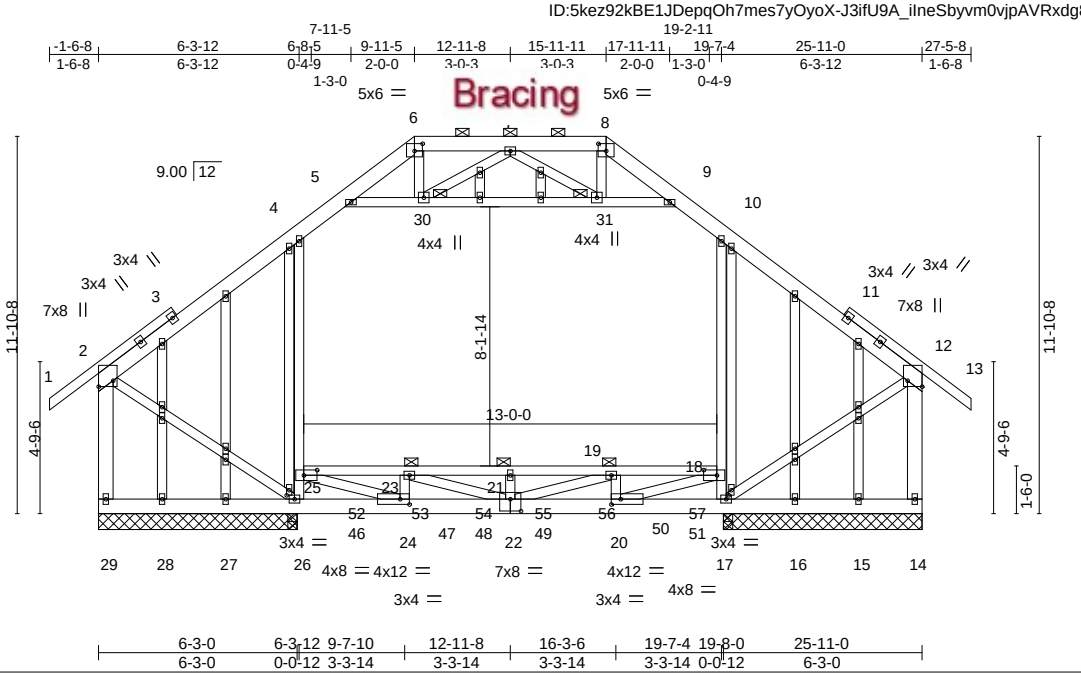

Plate Offsets (X,Y)-- [2:Edge,0-5-8], [6:0-3-0,0-2-12], [8:0-3-0,0-2-12], [12:Edge,0-5-8], [17:0-1-15,0-1-0], [18:0-5-0,0-2-0], [20:0-3-8,0-2-0], [22:0-4-0,0-4-8], [24:0-3-8,0-2-0], [25:0-5-0,0-2-0], [26:0-1-15,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.21	Vert(LL)	-0.10	21	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.96	Vert(CT)	-0.17	21	>933	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.84	Horz(CT)	0.01	14	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS		Attic	-0.10	18-25	1676	360	Weight: 341 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2 *Except* 1-3,11-13: 2x4 SP No.2
BOT CHORD	2x6 SP No.2 *Except* 18-25: 2x4 SP No.2
WEBS	2x4 SP No.3 *Except* 2-29,12-14: 2x6 SP No.2
OTHERS	2x4 SP No.3

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-8.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS	1 Brace at Jt(s): 30, 31, 21, 23, 19

REACTIONS. All bearings 6-3-0.
(lb) - Max Horz 29=-341(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) except 29=-153(LC 24), 26=-145(LC 8), 17=-145(LC 9), 14=-125(LC 25), 16=-257(LC 14), 27=-257(LC 14)
Max Grav All reactions 250 lb or less at joint(s) 15, 28 except 29=553(LC 1), 26=1607(LC 34), 26=977(LC 1), 17=1583(LC 35), 17=977(LC 1), 14=553(LC 1)

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

TOP CHORD	2-4=-340/146, 4-5=-427/117, 5-6=-521/110, 6-7=-420/107, 7-8=-420/107, 8-9=-521/105, 9-10=-427/117, 10-12=-340/123, 2-29=-536/141, 12-14=-536/116
BOT CHORD	28-29=-319/292, 27-28=-319/292, 26-27=-319/292, 22-24=0/1697, 20-22=0/1697, 23-25=-1631/0, 21-23=-2334/0, 19-21=-2334/0, 18-19=-1631/0
WEBS	25-26=-1159/84, 4-25=-531/238, 17-18=-1152/84, 10-18=-530/238, 30-31=-89/326, 2-26=-181/250, 21-22=-356/0, 23-24=-693/0, 24-25=0/1764, 22-23=0/743, 19-20=-693/0, 19-22=0/743, 18-20=0/1764

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Ceiling dead load (5.0 psf) on member(s). 4-5, 9-10, 5-30, 30-31, 9-31; Wall dead load (5.0psf) on member(s).4-25, 10-18

Continued on page 2

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 31,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

NOTES-

12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 153 lb uplift at joint 29, 145 lb uplift at joint 26, 145 lb uplift at joint 17, 125 lb uplift at joint 14, 257 lb uplift at joint 16 and 257 lb uplift at joint 27.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 26 lb down and 20 lb up at 6-3-12, 26 lb down and 20 lb up at 8-0-4, 26 lb down and 20 lb up at 10-0-4, 26 lb down and 20 lb up at 12-0-4, 26 lb down and 20 lb up at 13-10-12, 26 lb down and 20 lb up at 15-10-12, and 26 lb down and 20 lb up at 17-10-12, and 26 lb down and 20 lb up at 19-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
15) Attic room checked for L/360 deflection.
16) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-2=-54, 2-4=-54, 4-5=-64, 5-6=-54, 6-8=-54, 8-9=-54, 9-10=-64, 10-12=-54, 12-13=-54, 14-29=-20, 18-25=-40, 5-9=-10
   Drag: 4-25=-10, 10-18=-10
   Concentrated Loads (lb)
   Vert: 26=-13(F) 17=-13(F) 46=-13(F) 47=-13(F) 48=-13(F) 49=-13(F) 50=-13(F) 51=-13(F)

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES. T29088674
3264860	T02	Attic	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:21:04 2022 Page 1
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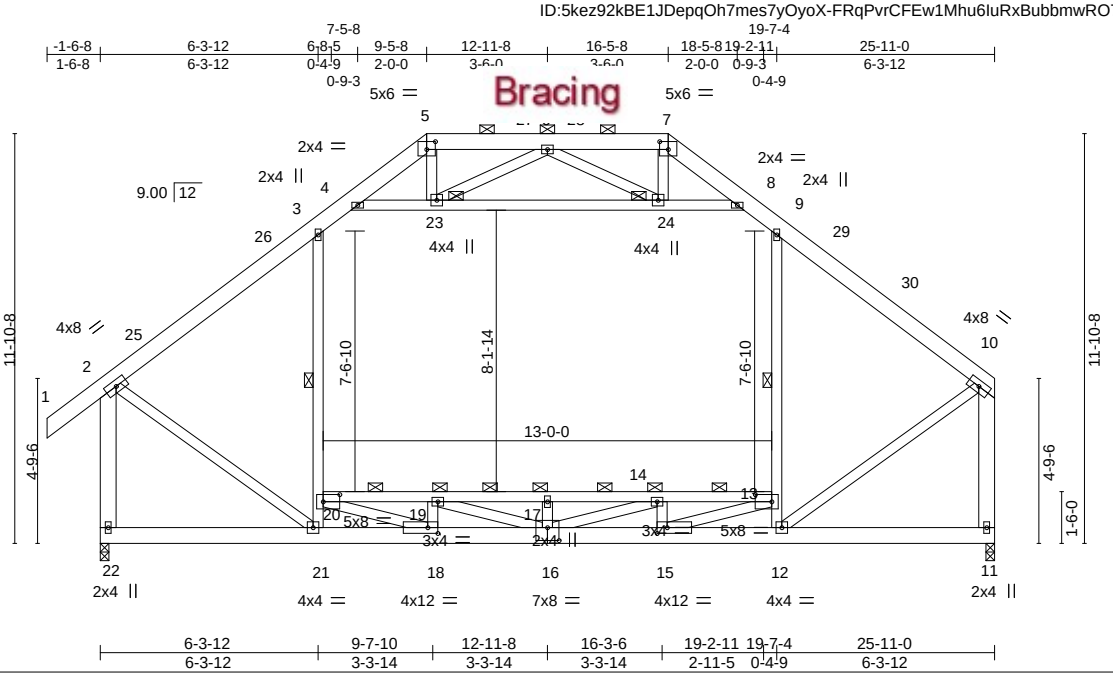

Plate Offsets (X,Y)-- [5:0-3-0,0-2-12], [7:0-3-0,0-2-12], [13:0-5-12,0-2-8], [15:0-3-8,0-2-0], [16:0-4-0,0-4-8], [18:0-3-8,0-2-0], [20:0-5-12,0-2-8]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.31	Vert(LL)	-0.17	21	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.80	Vert(CT)	-0.24	14-17	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.89	Horz(CT)	0.02	11	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS		Attic	-0.11	13-20	1449	360	Weight: 277 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
13-20: 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-22,10-11: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 21-22.
3-4-0 oc bracing: 19-20, 13-14
3-6-0 oc bracing: 17-19, 14-17
WEBS 1 Row at midpt 3-20, 9-13
JOINTS 1 Brace at Jt(s): 23, 24, 17, 19, 14

REACTIONS. (size) 22=0-3-0, 11=0-3-0
Max Horz 22=-288(LC 10)
Max Uplift 22=-1(LC 12)
Max Grav 22=1705(LC 2), 11=1622(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1328/19, 3-4=-1004/111, 4-5=-502/180, 5-6=-375/212, 6-7=-368/203, 7-8=-496/175, 8-9=-1005/111, 9-10=-1323/0, 2-22=-1681/19, 10-11=-1592/0
BOT CHORD 21-22=-258/279, 18-21=-43/1036, 16-18=0/2629, 15-16=0/2603, 12-15=0/953, 19-20=-1720/0, 17-19=-2403/0, 14-17=-2403/0, 13-14=-1727/0
WEBS 20-21=-473/33, 3-20=-70/483, 12-13=-490/41, 9-13=-82/477, 4-23=-912/105, 23-24=-757/0, 8-24=-929/96, 2-21=0/1252, 10-12=0/1234, 6-23=-303/195, 6-24=-302/201, 16-17=-363/0, 18-19=-680/0, 14-15=-678/0, 18-20=0/1861, 16-19=-81/788, 14-16=-101/782, 13-15=0/1866

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 9-5-8, Exterior(2R) 9-5-8 to 13-8-7, Interior(1) 13-8-7 to 16-5-8, Exterior(2R) 16-5-8 to 20-8-7, Interior(1) 20-8-7 to 25-8-4 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Ceiling dead load (5.0 psf) on member(s). 3-4, 8-9, 4-23, 23-24, 8-24; Wall dead load (5.0psf) on member(s).3-20, 9-13
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 19-20, 17-19, 14-17, 13-14
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 22.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Attic room checked for L/360 deflection.

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

October 31,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES. T29088675
3264860	T03	Attic	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:21:05 2022 Page 1
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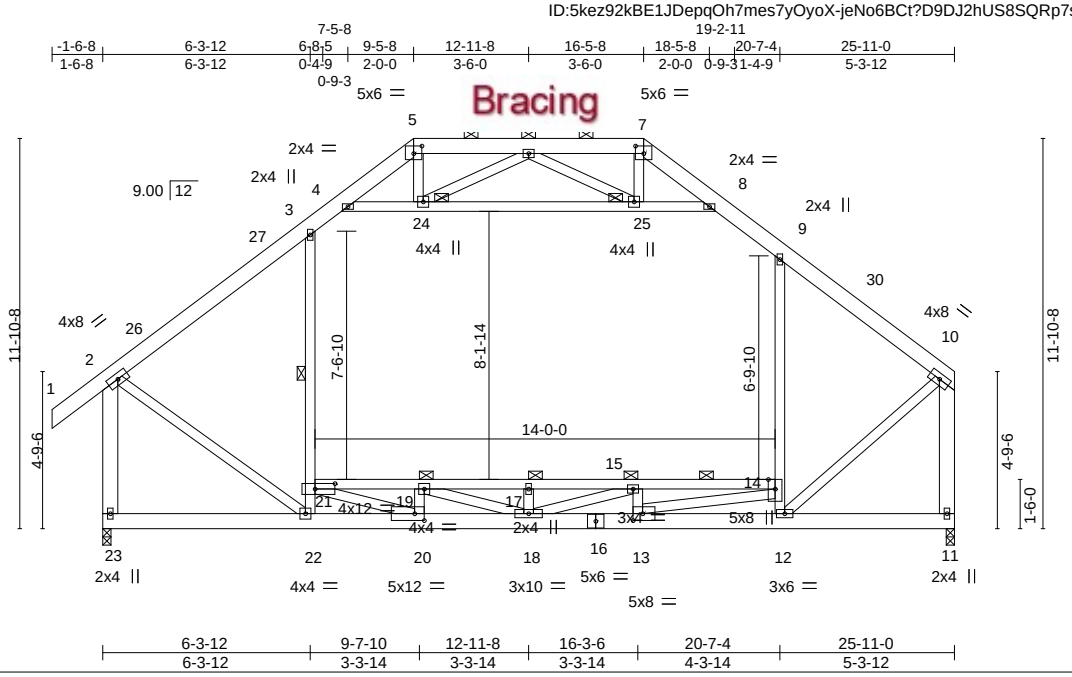

Plate Offsets (X,Y)-- [5:0-3-0,0-2-12], [7:0-3-0,0-2-12], [13:0-3-8,0-2-8], [20:0-3-8,0-2-8], [21:0-7-4,0-2-0]

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	0.60	Vert(LL)	0.19	22	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.88	Vert(CT)	-0.28	17-19	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.03	11	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS		Attic	-0.12	14-21	1437	360	Weight: 278 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
14-21: 2x4 SP M 31
WEBS 2x4 SP No.3 *Except*
2-23,10-11: 2x6 SP No.2, 13-14: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 11-12.
4-3-0 oc bracing: 14-15
4-6-0 oc bracing: 17-19, 15-17
5-3-0 oc bracing: 19-21
WEBS 1 Row at midpt 3-21
JOINTS 1 Brace at Jt(s): 24, 25, 17, 19, 15

REACTIONS. (size) 23=0-3-0, 11=0-3-0
Max Horz 23=-288(LC 10)
Max Uplift 23=-1(LC 12)
Max Grav 23=1722(LC 2), 11=1693(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1328/20, 3-4=-980/119, 4-5=-502/187, 5-6=-394/215, 6-7=-354/243, 7-8=-491/201, 8-9=-1040/108, 9-10=-1299/0, 2-23=-1679/19, 10-11=-1704/0
BOT CHORD 22-23=-256/285, 20-22=-42/1049, 18-20=0/2847, 13-18=0/3104, 12-13=0/976, 19-21=-1964/0, 17-19=-2805/0, 15-17=-2805/0, 14-15=-2237/0
WEBS 21-22=-506/30, 3-21=-53/528, 12-14=-569/42, 9-14=-130/457, 4-24=-882/103, 24-25=-797/0, 8-25=-1005/62, 2-22=0/1230, 10-12=0/1292, 6-24=-279/213, 6-25=-334/180, 17-18=-345/0, 19-20=-733/0, 13-15=-708/0, 20-21=0/2094, 18-19=-47/917, 15-18=-138/709, 13-14=0/2333

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 9-5-8, Exterior(2R) 9-5-8 to 13-8-7, Interior(1) 13-8-7 to 16-5-8, Exterior(2R) 16-5-8 to 20-7-4, Interior(1) 20-7-4 to 25-8-4 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Ceiling dead load (5.0 psf) on member(s). 3-4, 8-9, 4-24, 24-25, 8-25; Wall dead load (5.0psf) on member(s).3-21, 9-14
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 19-21, 17-19, 15-17, 14-15
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 23.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Attic room checked for L/360 deflection.

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

October 31,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES.
3264860	T04	Attic Girder	1	2	T29088676
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:21:07 2022 Page 1
ID:5kez92kBE1JDepqOh7mes7yOyoX-f0VYXtE7XrQxYMrtZZUuWEDEDeQlku0hFIG38TyOwgg

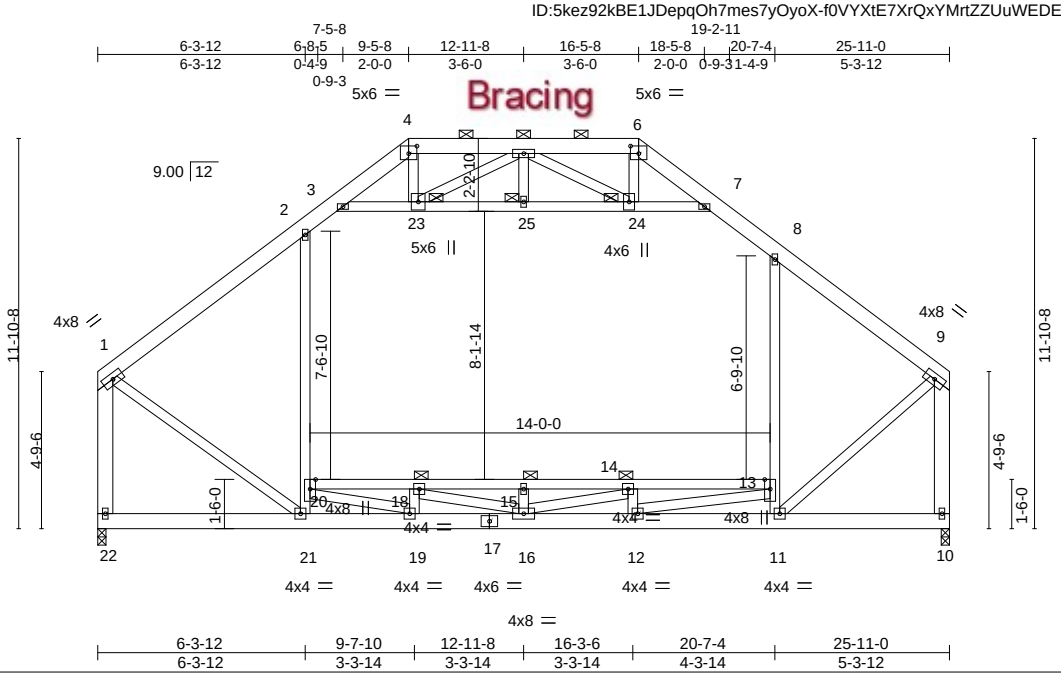

Plate Offsets (X,Y)-- [4:0-3-0,0-2-12], [6:0-3-0,0-2-12]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.43	Vert(LL)	-0.09	11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.74	Vert(CT)	-0.14	15-18	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.98	Horz(CT)	0.01	10	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS		Attic	-0.07	13-20	2569	360	Weight: 549 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x6 SP M 26 *Except*
13-20: 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
1-22,9-10: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 10-11.
JOINTS 1 Brace at Jt(s): 23, 24, 25, 15, 14, 18

REACTIONS. (size) 22=0-3-0, 10=0-3-0
Max Horz 22=-277(LC 6)
Max Uplift 22=-520(LC 8), 10=-507(LC 9)
Max Grav 22=3085(LC 2), 10=3148(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2552/483, 2-3=-2811/750, 3-4=-3492/1164, 4-5=-2971/1053, 5-6=-3071/1138, 6-7=-3549/1212, 7-8=-2825/717, 8-9=-2465/424, 1-22=-3034/519, 9-10=-3227/525
BOT CHORD 21-22=-229/263, 19-21=-450/2128, 16-19=-278/3693, 12-16=-1/3688, 11-12=-327/2032, 18-20=-1869/0, 15-18=-2615/0, 14-15=-2615/0, 13-14=-2015/0
WEBS 20-21=-1338/371, 2-20=-974/632, 11-13=-1364/362, 8-13=-1083/608, 3-23=-1175/1009, 23-25=-1939/4050, 24-25=-1939/4050, 7-24=-1325/1113, 1-21=-456/2415, 9-11=-468/2620, 4-23=-566/1723, 6-24=-525/1678, 5-23=-3422/1192, 5-24=-3333/1112, 15-16=-339/0, 12-14=-729/0, 18-19=-698/0, 19-20=0/1906, 16-18=-107/861, 14-16=-209/812, 12-13=0/2077

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) All plates are 2x4 MT20 unless otherwise indicated.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Ceiling dead load (5.0 psf) on member(s). 2-3, 7-8, 3-23, 23-25, 24-25, 7-24; Wall dead load (5.0psf) on member(s).2-20, 8-13
11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 18-20, 15-18, 14-15, 13-14

Continued on page 2

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Date:

October 31,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

NOTES-

12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 520 lb uplift at joint 22 and 507 lb uplift at joint 10.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 3368 lb down and 1125 lb up at 12-11-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.
15) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-2=-54, 2-3=-64, 3-4=-54, 4-6=-54, 6-7=-54, 7-8=-64, 8-9=-54, 10-22=-20, 13-20=-40, 3-7=-10
   Drag: 2-20=-10, 8-13=-10
   Concentrated Loads (lb)
   Vert: 5=-3368

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES.
3264860	T05	Attic Girder	1	2	T29088677
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:21:09 2022 Page 1
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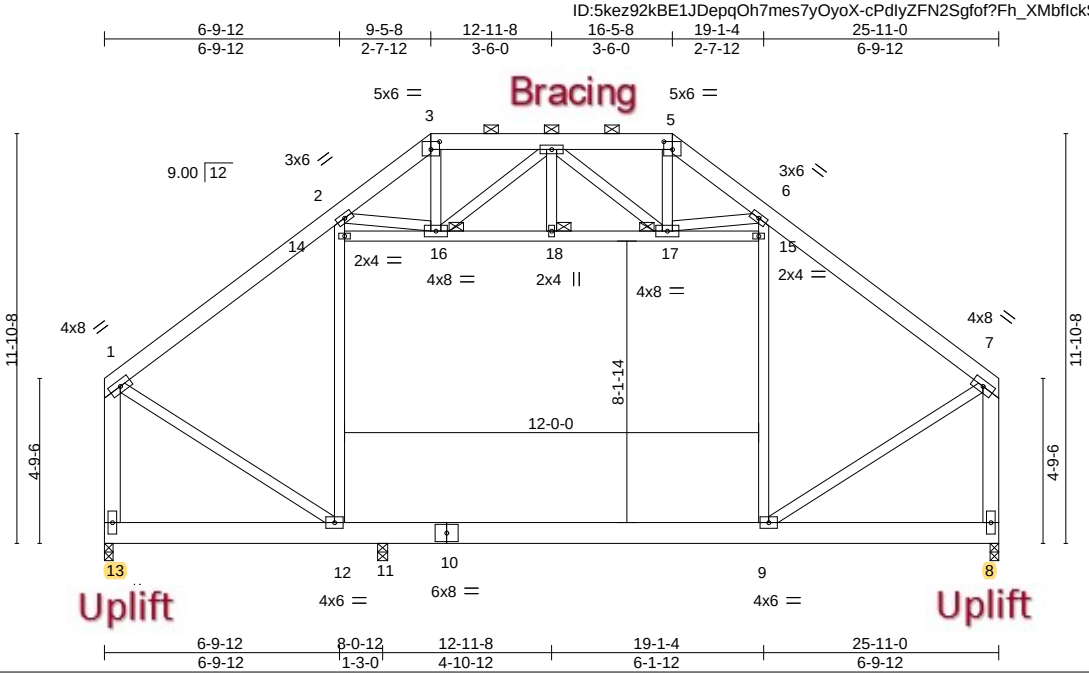

Scale = 1:66.8

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.30	Vert(LL)	-0.11	9-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.28	Vert(CT)	-0.18	9-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.64	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS		Attic	0.03	11-12	1000	360	Weight: 534 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except*
1-13,7-8: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 12-13.
JOINTS 1 Brace at Jt(s): 16, 17, 18

REACTIONS. (size) 13=0-3-0, 8=0-3-0, 11=0-3-8
Max Horz 13=-357(LC 4)
Max Uplift 13=-798(LC 9), 8=-646(LC 9), 11=-541(LC 7)
Max Grav 13=3162(LC 35), 8=3606(LC 23), 11=564(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-2938/779, 2-3=-3186/939, 3-4=-2528/770, 4-5=-2662/803, 5-6=-3362/970, 6-7=-3094/619, 1-13=-3377/835, 7-8=-3573/630
BOT CHORD 12-13=-293/336, 11-12=-328/2284, 9-11=-328/2284
WEBS 12-14=-1009/766, 2-14=-927/778, 9-15=-1116/439, 6-15=-1033/447, 16-18=-1375/2755, 17-18=-1375/2755, 1-12=-739/2839, 7-9=-357/2657, 3-16=-540/1766, 5-17=-511/1657, 4-16=-2852/895, 4-17=-2690/888, 2-16=-1009/609, 6-17=-982/594

NOTES-
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Ceiling dead load (5.0 psf) on member(s). 14-16, 16-18, 17-18, 15-17; Wall dead load (5.0psf) on member(s).12-14, 9-15
10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 11-12, 9-11
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 798 lb uplift at joint 13, 646 lb uplift at joint 8 and 541 lb uplift at joint 11.
12) Girder carries tie-in span(s): 4-0-0 from 12-11-8 to 25-11-0
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

October 31,2022

Continued on page 2

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

NOTES-

14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 3378 lb down and 1115 lb up at 12-11-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.
15) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-3=-54, 3-4=-54, 4-5=-101(F=-47), 5-7=-101(F=-47), 12-13=-20, 9-12=-40, 8-9=-20, 14-15=-10
   Drag: 12-14=-10, 9-15=-10
   Concentrated Loads (lb)
   Vert: 4=-3378

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES. T29088678
3264860	T06	Attic	2	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:21:11 2022 Page 1
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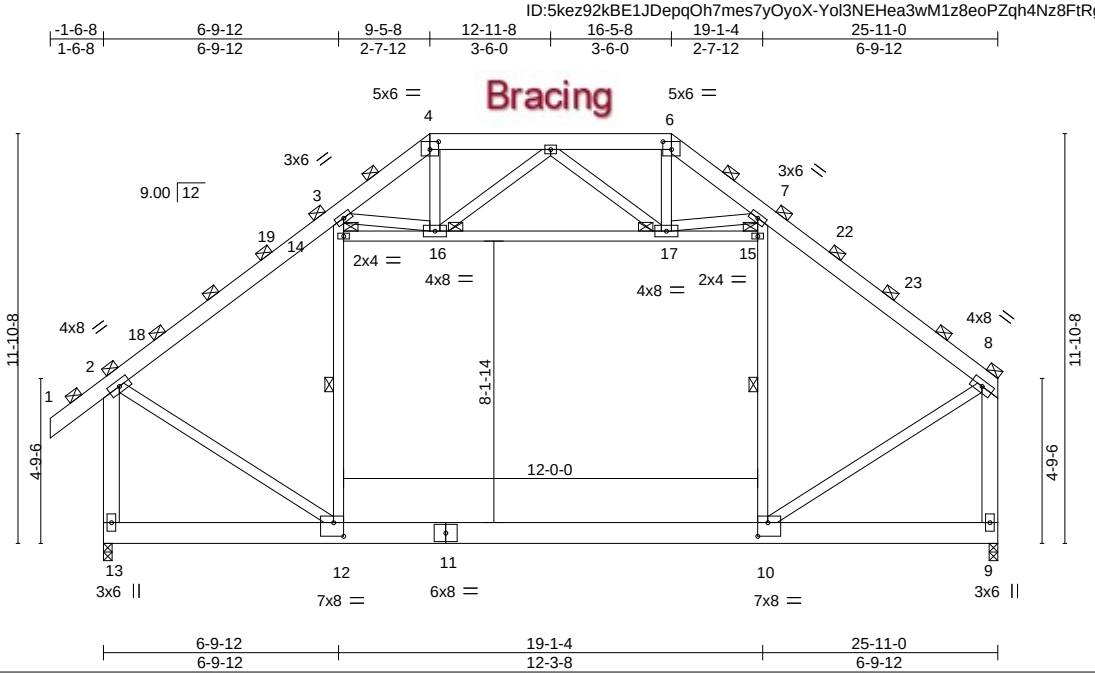

Plate Offsets (X,Y)-- [4:0-3-0,0-2-12], [6:0-3-0,0-2-12], [10:0-3-8,0-4-12], [12:0-3-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.24	Vert(LL)	-0.20	10-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.43	Vert(CT)	-0.30	10-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.01	9	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS		Attic	-0.18	10-12	814	360	Weight: 268 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except*
2-13,8-9: 2x6 SP No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals, and sheathed or 6-0-0 oc purlins: 4-6.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 12-14, 10-15
JOINTS 1 Brace at Jt(s): 8, 14, 15, 2, 16, 17

REACTIONS. (size) 13=0-3-0, 9=0-3-0
Max Horz 13=-286(LC 10)
Max Uplift 13=-43(LC 12), 9=-12(LC 13)
Max Grav 13=1534(LC 2), 9=1451(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1323/44, 3-4=-646/105, 4-5=-484/105, 5-6=-479/99, 6-7=-646/105, 7-8=-1317/22, 2-13=-1616/45, 8-9=-1526/6
BOT CHORD 12-13=-256/262, 10-12=0/1016
WEBS 12-14=-119/475, 3-14=-38/477, 16-17=-506/5, 10-15=-132/471, 7-15=-51/474, 2-12=0/1243, 8-10=0/1223, 4-16=-49/284, 6-17=-52/284, 3-16=-595/57, 7-17=-597/67

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 9-5-8, Exterior(2R) 9-5-8 to 13-8-7, Interior(1) 13-8-7 to 16-5-8, Exterior(2R) 16-5-8 to 20-8-7, Interior(1) 20-8-7 to 25-8-4 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Ceiling dead load (5.0 psf) on member(s). 14-16, 16-17, 15-17; Wall dead load (5.0psf) on member(s).12-14, 10-15
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 10-12
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 lb uplift at joint 13 and 12 lb uplift at joint 9.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Attic room checked for L/360 deflection.

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Date:

October 31,2022

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Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES. T29088679
3264860	T07	Attic	3	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:21:12 2022 Page 1
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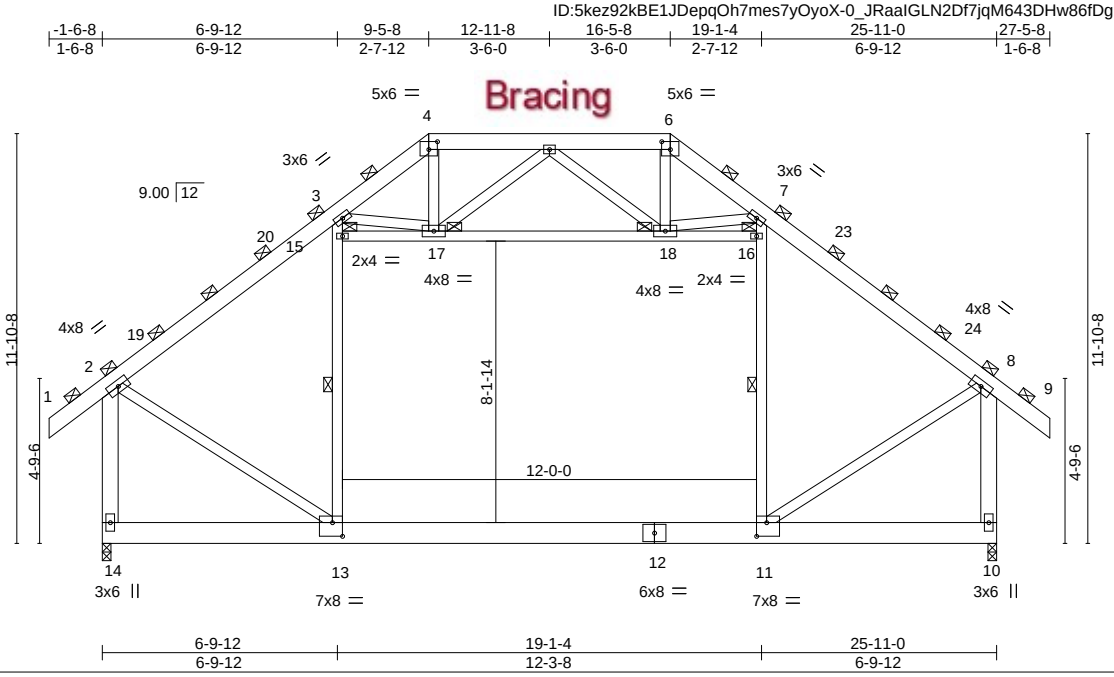

Plate Offsets (X,Y)-- [4:0-3-0,0-2-12], [6:0-3-0,0-2-12], [11:0-3-8,0-4-12], [13:0-3-8,0-4-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.23	Vert(LL)	-0.20	11-13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.43	Vert(CT)	-0.30	11-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.01	10	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS		Attic	-0.18	11-13	814	360	Weight: 273 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except*
2-14,8-10: 2x6 SP No.2

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals, and sheathed or 6-0-0 oc purlins: 4-6.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 13-15, 11-16
JOINTS 1 Brace at Jt(s): 15, 16, 2, 8, 17, 18

REACTIONS. (size) 14=0-3-0, 10=0-3-0
Max Horz 14=345(LC 11)
Max Uplift 14=-53(LC 12), 10=-53(LC 13)
Max Grav 14=1532(LC 2), 10=1532(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1318/43, 3-4=-648/108, 4-5=-484/105, 5-6=-484/105, 6-7=-648/108, 7-8=-1318/43, 2-14=-1610/68, 8-10=-1610/68
BOT CHORD 13-14=-344/322, 11-13=-8/1051
WEBS 13-15=-119/474, 3-15=-39/476, 17-18=-504/1, 11-16=-119/474, 7-16=-39/476, 2-13=0/1249, 8-11=0/1250, 4-17=-50/282, 6-18=-50/282, 3-17=-588/58, 7-18=-588/58

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 9-5-8, Exterior(2R) 9-5-8 to 13-8-7, Interior(1) 13-8-7 to 16-5-8, Exterior(2R) 16-5-8 to 20-8-7, Interior(1) 20-8-7 to 27-5-8 zone; end vertical 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) Ceiling dead load (5.0 psf) on member(s). 15-17, 17-18, 16-18; Wall dead load (5.0psf) on member(s).13-15, 11-16
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 11-13
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 14 and 53 lb uplift at joint 10.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) Attic room checked for L/360 deflection.

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

October 31,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES. T29088680
3264860	T08	Piggyback Base	7	1	Job Reference (optional)

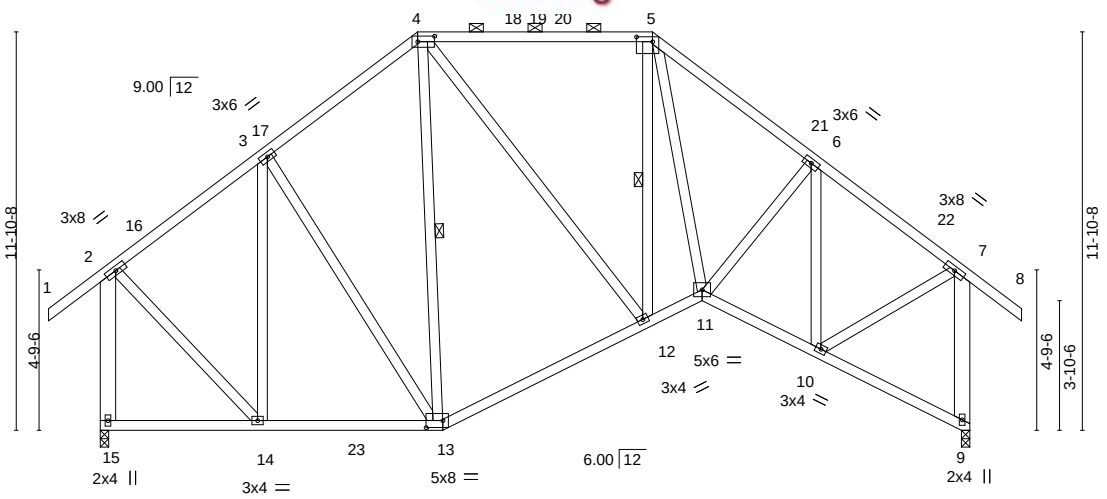
Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:21:13 2022 Page 1
ID:5kez92kBE1JDepqOh7mes7yOyoX-UAspowJu6hA4GHI1wqbImVSCg3ZW8kNadEjNM7yOwga

-1-6-8	4-10-0	9-5-8	16-5-8	21-4-0	25-11-0	27-5-8
1-6-8	4-10-0	4-7-8	7-0-0	4-10-8	4-7-0	1-6-8

TOP CHORD UNDER PIGGYBACKS TO BE LATERALLY BRACED BY PURLINS AT 2-0-0 OC. MAX. (TYPICAL)

Bracing

Scale = 1:68.7



4-10-0	10-2-8	16-5-8	17-11-4	21-4-0	25-11-0
4-10-0	5-4-8	6-3-0	1-5-12	3-4-12	4-7-0

Plate Offsets (X,Y)-- [4:0-6-0,0-2-0], [5:0-5-12,0-1-12], [13:0-6-0,0-2-8]

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	0.69	Vert(LL)	-0.05	12-13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.39	Vert(CT)	-0.11	12-13	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.06	9	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 228 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-15,7-9: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-7-8 oc purlins, except end verticals, and 2-0-0 oc purlins (5-2-3 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-13, 5-12

REACTIONS. (size) 15=0-3-0, 9=0-3-0
Max Horz 15=-353(LC 10)
Max Uplift 15=-249(LC 12), 9=-249(LC 13)
Max Grav 15=1115(LC 2), 9=1093(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-688/190, 3-4=-722/264, 4-5=-723/275, 5-6=-1088/315, 6-7=-876/216, 2-15=-1051/263, 7-9=-1028/278
BOT CHORD 14-15=-327/300, 13-14=-251/648, 12-13=-229/724, 11-12=-219/836, 10-11=-149/761
WEBS 3-14=-331/97, 4-12=-76/344, 5-11=-148/490, 6-11=-148/294, 6-10=-537/133, 2-14=-87/697, 7-10=-114/742

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 9-5-8, Exterior(2R) 9-5-8 to 13-8-7, Interior(1) 13-8-7 to 16-5-8, Exterior(2R) 16-5-8 to 20-8-7, Interior(1) 20-8-7 to 27-5-8 zone; end vertical 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, with BCDL = 10.0psf.
7) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 249 lb uplift at joint 15 and 249 lb uplift at joint 9.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 31,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES. T29088681
3264860	T08G	GABLE	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:21:16 2022 Page 1
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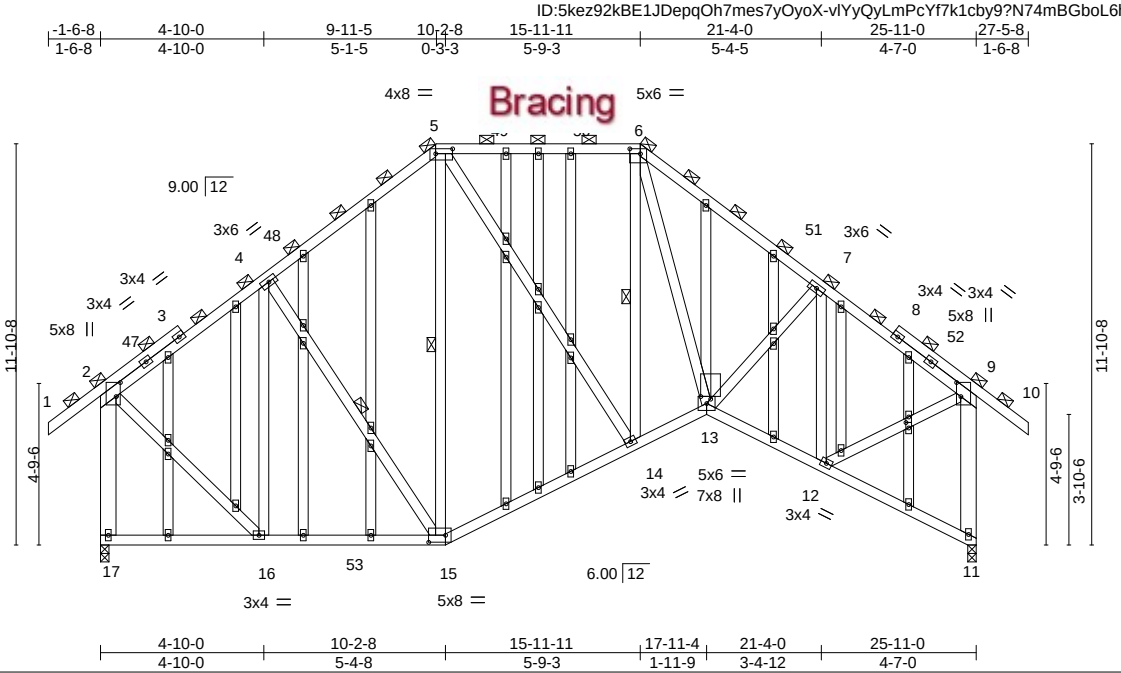

Plate Offsets (X,Y)-- [2:0-5-0,0-1-8], [5:0-6-0,0-1-12], [6:0-3-12,0-1-12], [9:0-5-0,0-1-8], [13:0-0-15,0-3-8], [15:0-6-0,0-2-8], [23:0-1-15,0-1-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.48	Vert(LL)	-0.05	14-15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.36	Vert(CT)	-0.09	14-15	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.38	Horz(CT)	0.06	11	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 350 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-17,9-11: 2x6 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD 2-0-0 oc purlins (5-4-11 max.), except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-15, 6-14, 5-15

REACTIONS. (size) 17=0-3-0, 11=0-3-0
Max Horz 17=347(LC 11)
Max Uplift 17=-221(LC 12), 11=-222(LC 13)
Max Grav 17=1114(LC 2), 11=1093(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-704/186, 4-5=-744/248, 5-6=-713/257, 6-7=-1153/320, 7-9=-916/206, 2-17=-1049/262, 9-11=-1031/278
BOT CHORD 16-17=-321/300, 15-16=-248/678, 14-15=-220/738, 13-14=-203/851, 12-13=-166/817
WEBS 4-16=-331/101, 5-14=-52/343, 6-14=-255/87, 6-13=-144/585, 7-13=-136/278, 7-12=-556/143, 2-16=-95/709, 9-12=-127/780

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 9-11-0, Exterior(2R) 9-11-0 to 14-1-15, Interior(1) 14-1-15 to 15-11-11, Exterior(2R) 15-11-11 to 20-2-10, Interior(1) 20-2-10 to 27-5-8 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
10) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 221 lb uplift at joint 17 and 222 lb uplift at joint 11.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

October 31,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES.
3264860	T09	Common	3	1	T29088682
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:21:17 2022 Page 1
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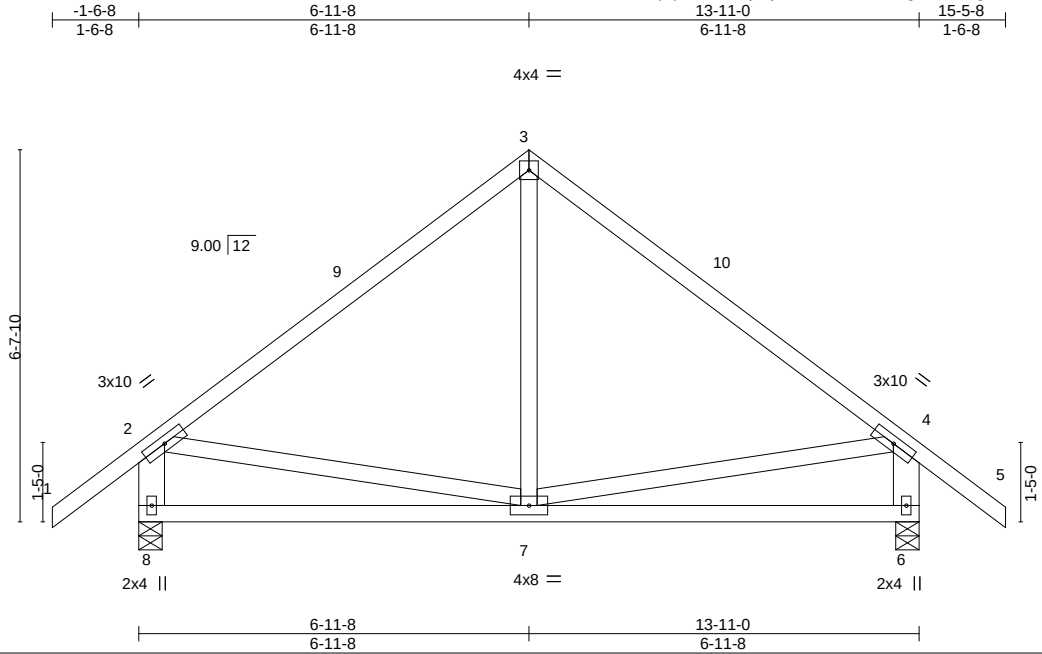

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.51	Vert(LL)	-0.04	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.39	Vert(CT)	-0.08	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 86 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-8,4-6: 2x6 SP No.2

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

REACTIONS. (size) 8=0-5-0, 6=0-5-0
Max Horz 8=193(LC 11)
Max Uplift 8=-144(LC 12), 6=-144(LC 13)
Max Grav 8=594(LC 1), 6=594(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-475/161, 3-4=-475/161, 2-8=-534/244, 4-6=-534/244
BOT CHORD 7-8=-221/313
WEBS 3-7=-3/253

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 6-11-8, Exterior(2R) 6-11-8 to 9-11-8, Interior(1) 9-11-8 to 15-5-8 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 144 lb uplift at joint 8 and 144 lb uplift at joint 6.

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

October 31,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES.
3264860	T09G	Common Supported Gable	1	1	T29088683
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:21:18 2022 Page 1
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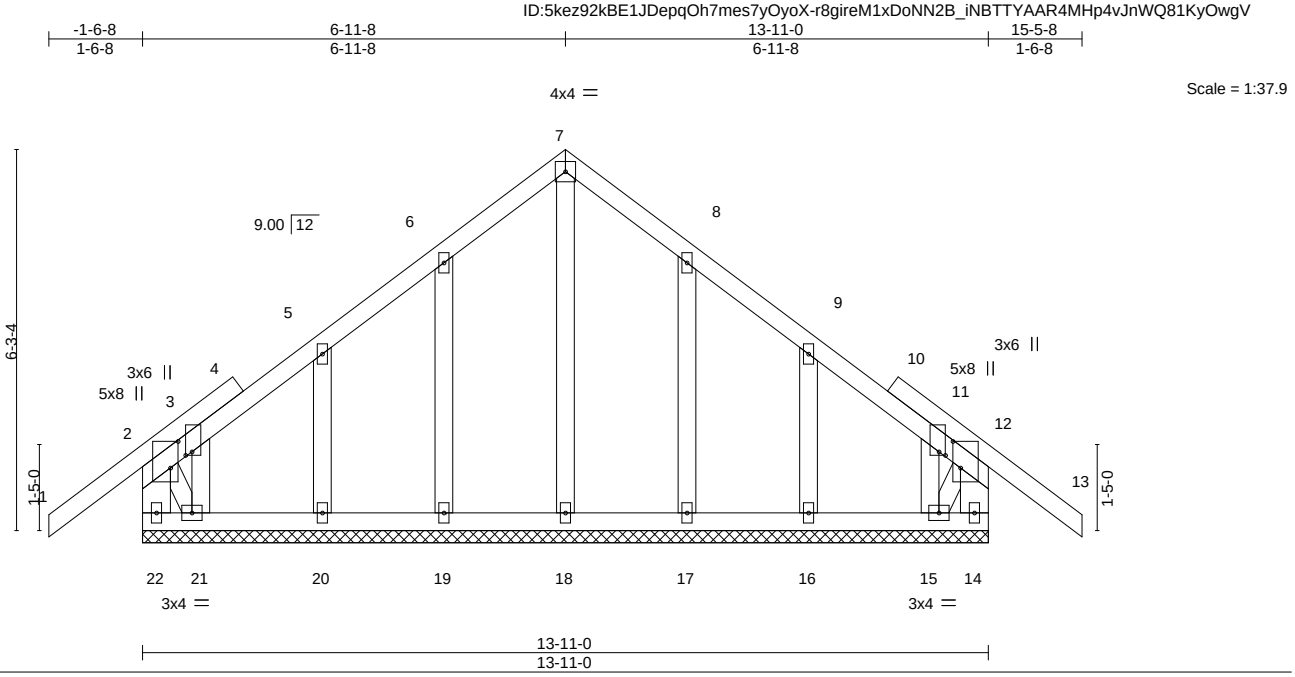

Plate Offsets (X,Y)-- [2:0-5-4,0-1-8], [3:0-0-11,0-1-4], [11:0-0-11,0-1-4], [12:0-5-4,0-1-8]

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	0.24	Vert(LL)	-0.01	13	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	-0.02	13	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	14	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 98 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x6 SP No.2 *Except* 2-21,12-15: 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 6-0-0 oc bracing.

REACTIONS. All bearings 13-11-0.
(lb) - Max Horz 22=178(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 14, 19, 20, 17, 16 except 22=-134(LC 8), 21=-165(LC 12), 15=-148(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 14, 18, 19, 20, 21, 17, 16, 15 except 22=250(LC 20)

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

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-8 to 1-5-8, Exterior(2N) 1-5-8 to 6-11-8, Corner(3R) 6-11-8 to 9-11-8, Exterior(2N) 9-11-8 to 15-5-8 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
8) Gable studs spaced at 2-0-0 oc.
9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
10) * 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.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 19, 20, 17, 16 except (jt=lb) 22=134, 21=165, 15=148.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 31,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES. T29088684
3264860	T10	Common	4	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:21:19 2022 Page 1
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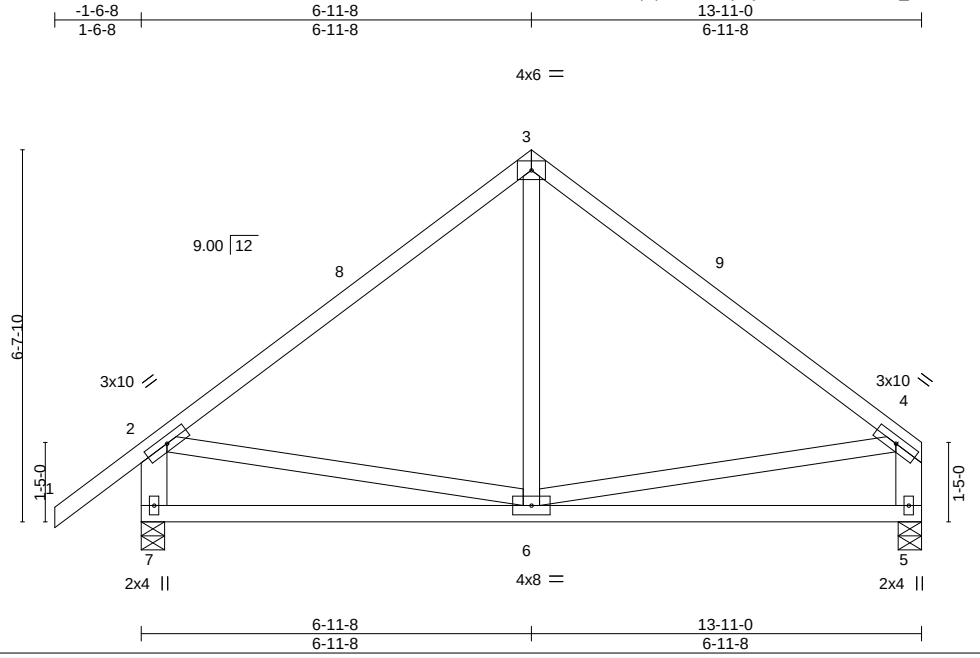

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.53	Vert(LL)	-0.04	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.39	Vert(CT)	-0.08	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 83 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
2-7,4-5: 2x6 SP No.2

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

REACTIONS. (size) 7=0-5-0, 5=0-5-0
Max Horz 7=182(LC 11)
Max Uplift 7=-144(LC 12), 5=-103(LC 13)
Max Grav 7=600(LC 1), 5=492(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-485/163, 3-4=-476/157, 2-7=-540/245, 4-5=-432/164
BOT CHORD 6-7=-235/295
WEBS 3-6=0/251

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 6-11-8, Exterior(2R) 6-11-8 to 9-11-8, Interior(1) 9-11-8 to 13-8-4 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=144, 5=103.

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Date:

October 31,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES.
3264860	T11	Common	3	1	T29088685
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:21:20 2022 Page 1
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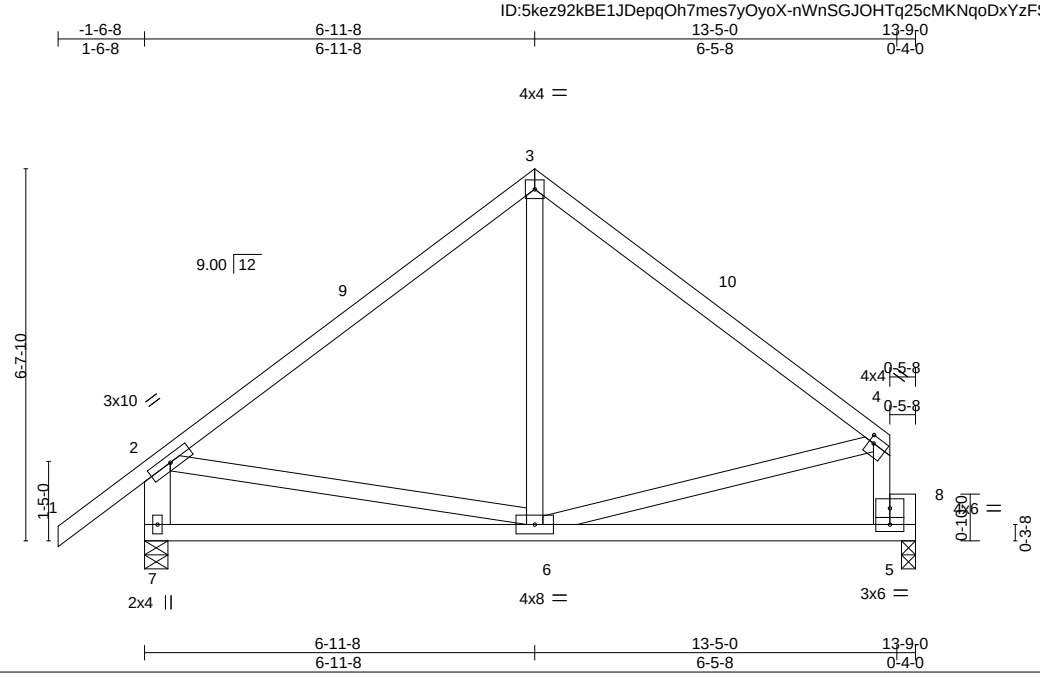

Plate Offsets (X,Y)-- [4:0-1-0,0-1-8]

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	0.51	Vert(LL)	-0.05	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.39	Vert(CT)	-0.11	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	10.0	Code FBC2020/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 *Except*
2-7: 2x6 SP No.2
OTHERS 2x6 SP No.2

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

REACTIONS. (size) 7=0-5-0, 5=0-3-0
Max Horz 7=162(LC 9)
Max Uplift 7=-140(LC 12), 5=-93(LC 13)
Max Grav 7=588(LC 1), 5=468(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-465/158, 3-4=-449/159, 2-7=-524/247, 4-5=-437/171
BOT CHORD 6-7=-235/290

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 6-11-8, Exterior(2R) 6-11-8 to 9-11-8, Interior(1) 9-11-8 to 13-1-12 zone; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 7=140.

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

October 31,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES. T29088686
3264860	T12G	GABLE	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:21:22 2022 Page 1
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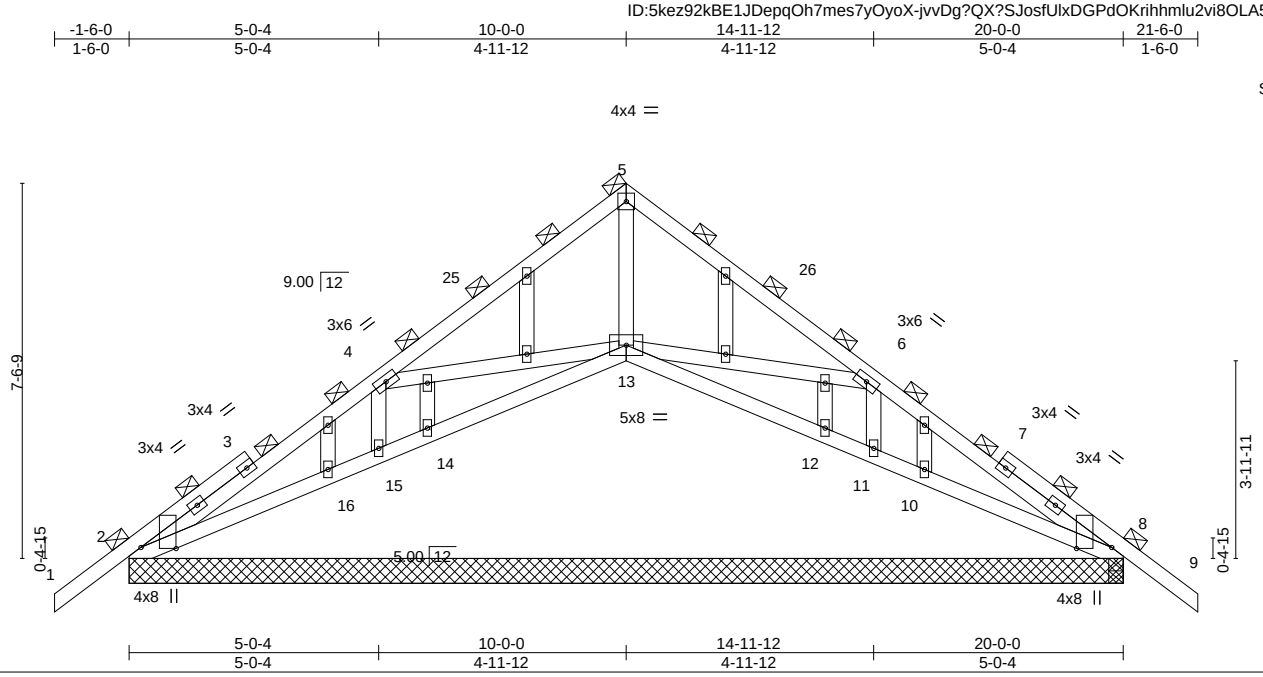

Plate Offsets (X,Y)-- [2:0-0-4,Edge], [8:0-0-4,Edge]

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	0.29	Vert(LL)	-0.01	2-16	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.13	Vert(CT)	-0.01	2-16	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-S							Weight: 117 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 2-0-0 oc purlins (6-0-0 max.).
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 20-0-0.
(lb) - Max Horz 2=-194(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 13 except 2=-124(LC 13), 8=-129(LC 13), 11=-193(LC 13), 15=-231(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 2, 8, 8, 11, 14, 16, 12, 10 except 13=312(LC 19), 15=275(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 6-11=-299/184, 4-15=-345/222

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 10-0-0, Exterior(2R) 10-0-0 to 13-0-0, Interior(1) 13-0-0 to 21-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (jt=lb) 2=124, 8=129, 11=193, 15=231.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

October 31,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES.
3264860	T13	Roof Special	3	1	T29088687
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:21:23 2022 Page 1
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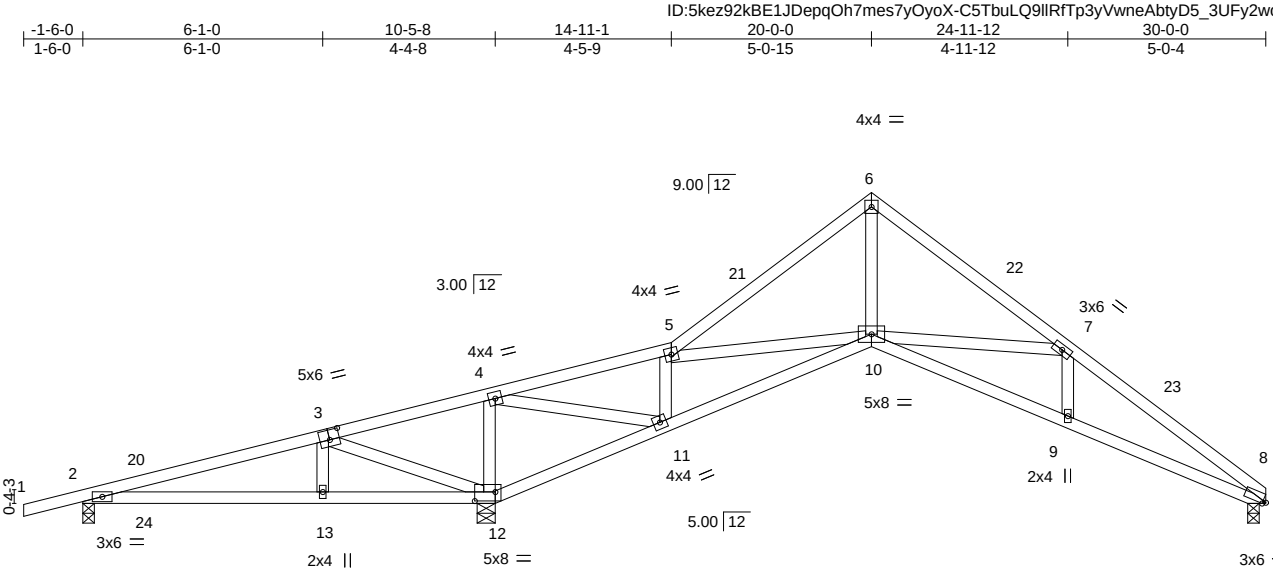

Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [8:0-1-0,Edge], [12:0-6-4,0-2-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.49	Vert(LL)	0.08	13-19	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.38	Vert(CT)	-0.14	9-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.10	8	n/a	n/a		
BCDL	10.0	Code FBC2020/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 4-9-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-5-9 oc bracing.

REACTIONS. (size) 8=0-3-8, 2=0-3-8, 12=0-5-8
Max Horz 2=194(LC 9)
Max Uplift 8=-153(LC 13), 2=-262(LC 8), 12=-380(LC 12)
Max Grav 8=578(LC 1), 2=257(LC 23), 12=1519(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-65/542, 3-4=-397/1068, 4-5=-256/109, 5-6=-842/113, 6-7=-846/150, 7-8=-1430/339
BOT CHORD 2-13=-455/101, 12-13=-460/99, 11-12=-1158/509, 10-11=-70/357, 9-10=-211/1190, 8-9=-214/1179
WEBS 3-13=-324/242, 3-12=-753/842, 4-12=-746/231, 4-11=-276/1239, 5-11=-652/210, 5-10=-55/399, 6-10=-39/642, 7-10=-533/336

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 20-0-0, Exterior(2R) 20-0-0 to 23-0-0, Interior(1) 23-0-0 to 30-0-0 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=153, 2=262, 12=380.

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

October 31,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES. T29088688
3264860	T13G	GABLE	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:21:24 2022 Page 1
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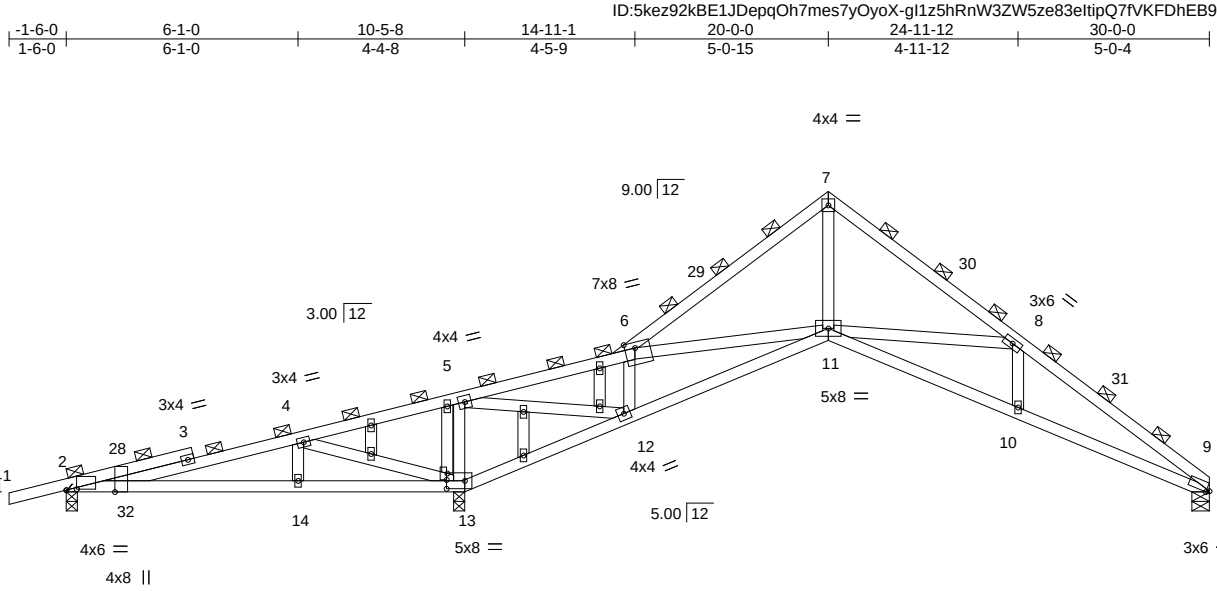

Plate Offsets (X,Y)-- [2:0-3-4,0-0-5], [2:0-0-9,Edge], [6:0-3-4,0-1-12], [9:0-1-0,Edge], [13:0-5-12,0-2-8], [13:0-2-0,0-0-4]

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	0.45	Vert(LL)	-0.07	10-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.38	Vert(CT)	-0.14	10-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.10	9	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 154 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 2-0-0 oc purlins (4-9-3 max.).
BOT CHORD Rigid ceiling directly applied or 5-2-15 oc bracing.

REACTIONS. (size) 2=0-3-8, 9=0-5-8, 13=0-3-8
Max Horz 2=193(LC 11)
Max Uplift 2=-257(LC 8), 9=-152(LC 13), 13=-382(LC 12)
Max Grav 2=255(LC 23), 9=582(LC 1), 13=1506(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-99/613, 4-5=-521/1165, 5-6=-352/114, 6-7=-876/106, 7-8=-860/148, 8-9=-1441/314
BOT CHORD 2-14=-527/104, 13-14=-527/104, 12-13=-1263/624, 11-12=-60/425, 10-11=-192/1200, 9-10=-193/1188
WEBS 4-14=-298/218, 4-13=-779/954, 5-13=-739/235, 5-12=-311/1402, 6-12=-632/202, 6-11=-129/413, 7-11=-31/679, 8-11=-531/335

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 20-0-0, Exterior(2R) 20-0-0 to 23-0-0, Interior(1) 23-0-0 to 30-0-0 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=257, 9=152, 13=382.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

October 31,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES. T29088689
3264860	T14	Roof Special	3	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:21:26 2022 Page 1
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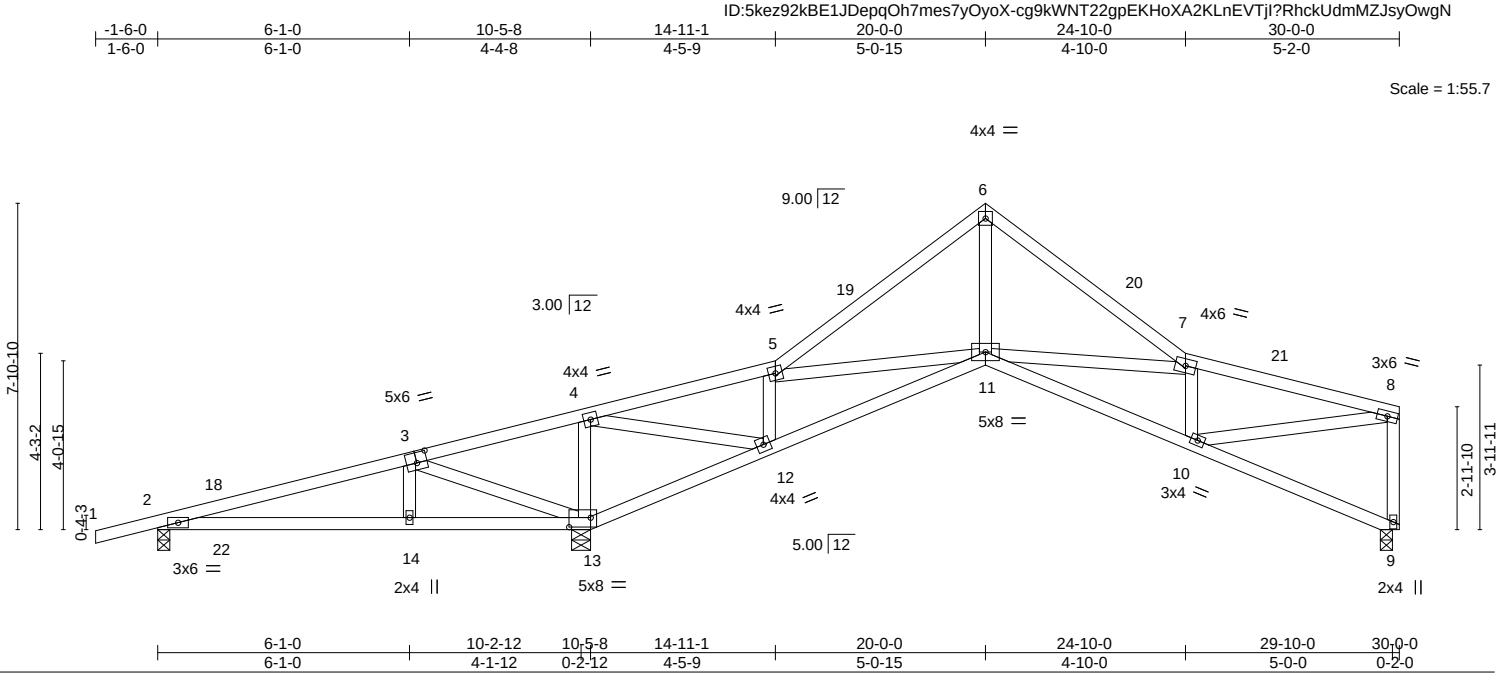

Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [13:0-6-4,0-2-12]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.48	Vert(LL)	0.08	14-17	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.34	Vert(CT)	-0.11	10-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.08	9	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 153 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 5-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-7-11 oc bracing.

REACTIONS. (size) 9=0-3-8, 2=0-3-8, 13=0-5-8
Max Horz 2=186(LC 12)
Max Uplift 9=-145(LC 13), 2=-245(LC 8), 13=-396(LC 12)
Max Grav 9=581(LC 1), 2=266(LC 23), 13=1490(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-117/463, 3-4=-499/1001, 4-5=-290/77, 5-6=-857/170, 6-7=-853/185, 7-8=-1069/272, 8-9=-545/173
BOT CHORD 2-14=-396/97, 13-14=-401/94, 12-13=-1088/507, 11-12=-116/401, 10-11=-276/1145
WEBS 3-14=-325/241, 3-13=-750/844, 4-13=-745/250, 4-12=-346/1234, 5-12=-648/253, 5-11=-134/352, 6-11=-80/655, 7-11=-439/239, 7-10=-481/174, 8-10=-228/991

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 20-0-0, Exterior(2R) 20-0-0 to 23-0-0, Interior(1) 23-0-0 to 29-10-4 zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=145, 2=245, 13=396.

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16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

October 31,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES. T29088690
3264860	T15	Piggyback Base	5	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:21:27 2022 Page 1
ID:5kez92kBE1JDepqOh7mes7yOyoX-4tj6kjTgp_x5yRNjkmraKR2dciKaQ1XerP66sJyOwgM

-1-6-0	6-1-0	10-5-8	14-11-1	20-0-0	22-10-15	27-10-15	29-6-8	36-3-8	37-10-0
1-6-0	6-1-0	4-4-8	4-5-9	5-0-15	2-10-15	5-0-0	1-7-9	6-9-0	1-6-8

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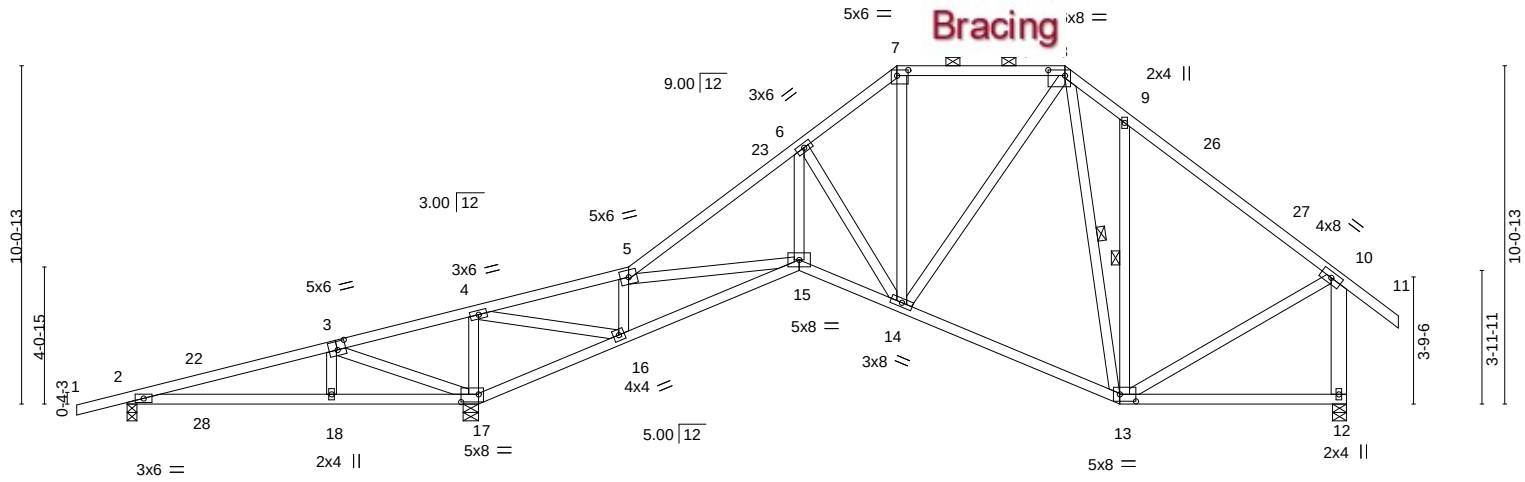

6-1-0	10-2-12	10-5-8	14-11-1	20-0-0	22-10-15	29-6-8	36-3-8
6-1-0	4-1-12	0-2-12	4-5-9	5-0-15	2-10-15	6-7-9	6-9-0

Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [7:0-4-0,0-2-0], [8:0-6-0,0-2-0], [13:0-5-12,0-2-8], [17:0-6-4,0-2-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.53	Vert(LL)	0.08	18-21	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.41	Vert(CT)	-0.15	13-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.08	12	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 231 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
10-12: 2x6 SP No.2

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

REACTIONS. (size) 2=0-3-8, 17=0-5-8, 12=0-5-0
Max Horz 2=302(LC 11)
Max Uplift 2=-278(LC 8), 17=-448(LC 12), 12=-200(LC 13)
Max Grav 2=183(LC 23), 17=1760(LC 1), 12=920(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-141/712, 3-4=-568/1220, 4-5=-488/105, 5-6=-1371/346, 6-7=-845/348, 7-8=-634/311, 8-9=-633/459, 9-10=-684/292, 10-12=-854/366
BOT CHORD 2-18=-569/75, 17-18=-574/72, 16-17=-1329/577, 15-16=-122/600, 14-15=-275/1135, 13-14=-102/527
WEBS 3-18=-326/244, 3-17=-758/845, 4-17=-920/306, 4-16=-470/1648, 5-16=-896/330, 5-15=-229/563, 6-15=-127/735, 6-14=-823/255, 7-14=-91/299, 8-14=-107/339, 8-13=-248/266, 9-13=-308/268, 10-13=-52/477

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-1-9, Interior(1) 2-1-9 to 22-10-15, Exterior(2R) 22-10-15 to 26-6-7, Interior(1) 26-6-7 to 27-10-15, Exterior(2R) 27-10-15 to 31-6-7, Interior(1) 31-6-7 to 37-10-0 zone; end vertical right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=278, 17=448, 12=200.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

October 31,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES. T29088691
3264860	T15G	GABLE	1	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:21:29 2022 Page 1
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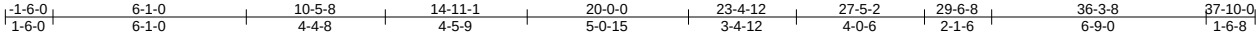

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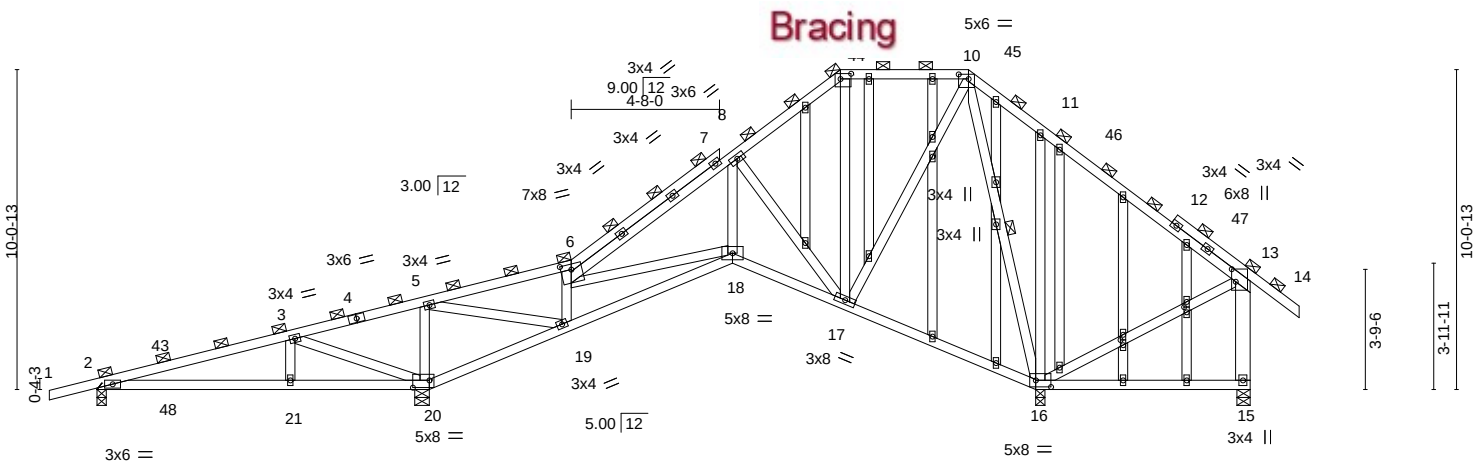

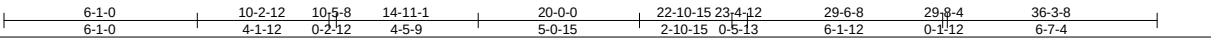

Plate Offsets (X,Y)-- [6:0-4-0,0-2-0], [9:0-4-0,0-2-0], [10:0-3-12,0-1-12], [13:0-4-12,0-1-8], [16:0-5-12,0-2-8], [20:0-6-4,0-2-12], [24:0-1-15,0-1-0], [27:0-1-15,0-1-0]

LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.41	Vert(LL)	0.09	21-42	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.34	Vert(CT)	-0.11	15-16	>702	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.04	15	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 308 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
13-15: 2x6 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 10-16

REACTIONS. All bearings 0-3-8 except (jt=length) 20=0-5-8, 15=0-5-0.
(lb) - Max Horz 2=298(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) except 2=-271(LC 8), 20=-333(LC 12), 16=-318(LC 12), 15=-241(LC 23)
Max Grav All reactions 250 lb or less at joint(s) 15 except 2=290(LC 1), 20=1242(LC 23), 16=1413(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-125/512, 3-5=-417/730, 5-6=-297/52, 6-8=-520/69, 10-11=-83/458, 11-13=-81/492, 13-15=-70/306
BOT CHORD 2-21=-459/40, 20-21=-459/40, 19-20=-793/428, 18-19=-72/343, 17-18=-217/493, 16-17=-257/238
WEBS 3-21=-320/237, 3-20=-755/867, 5-20=-621/214, 5-19=-232/913, 6-19=-447/184, 8-18=-90/387, 8-17=-551/171, 10-17=-110/486, 10-16=-797/205, 11-16=-283/252, 13-16=-419/230

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-1-9, Interior(1) 2-1-9 to 23-4-12, Exterior(2R) 23-4-12 to 27-0-5, Interior(1) 27-0-5 to 27-5-2, Exterior(2R) 27-5-2 to 31-0-11, Interior(1) 31-0-11 to 37-10-0 zone; end vertical right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Provide adequate drainage to prevent water ponding.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 271 lb uplift at joint 2, 333 lb uplift at joint 20, 318 lb uplift at joint 16 and 241 lb uplift at joint 15.
11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

October 31,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES.
3264860	T16	Piggyback Base	3	1	T29088692
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:21:31 2022 Page 1
ID:5kez92kBE1JDepqOh7mes7yOyoX-zeydZ4XAtCRXR2gUzcwWUHCIFJgRMqaDm14K?4yOwgI

-1-6-0	6-1-0	10-5-8	14-11-1	20-0-0	22-10-15	27-10-15	29-6-8	36-3-8
1-6-0	6-1-0	4-4-8	4-5-9	5-0-15	2-10-15	5-0-0	1-7-9	6-9-0

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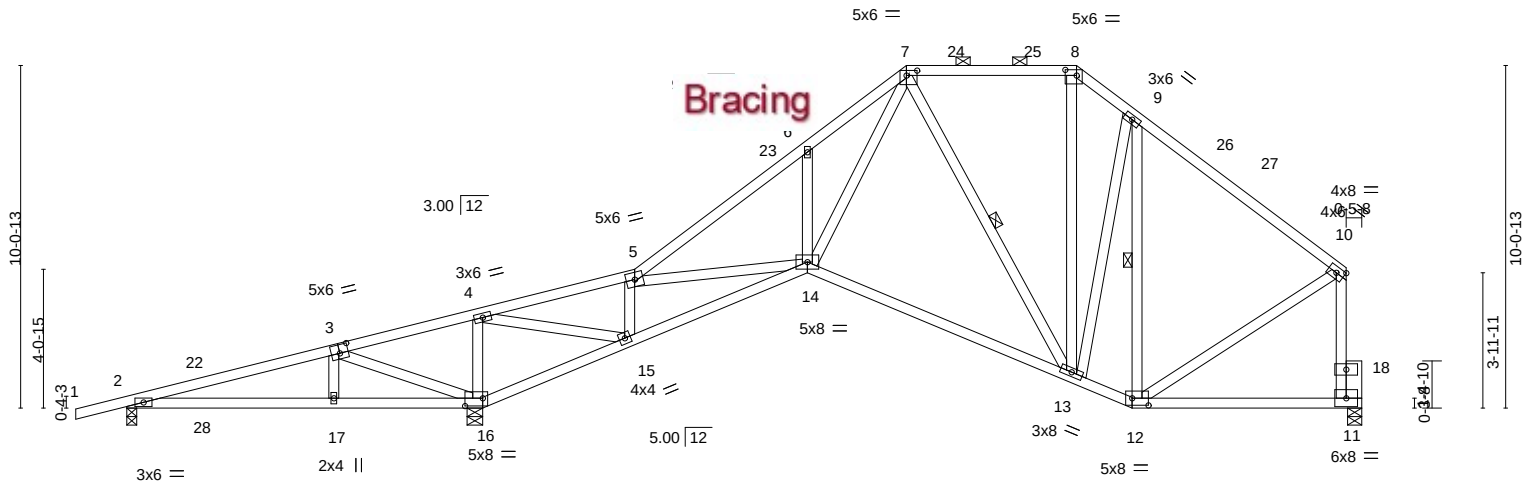

6-1-0	10-2-12	10-5-8	14-11-1	20-0-0	27-10-15	29-6-8	36-3-8
6-1-0	4-1-12	0-2-12	4-5-9	5-0-15	7-10-15	1-7-9	6-9-0

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.62	Vert(LL)	-0.13	13-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.54	Vert(CT)	-0.28	13-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.08	11	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 231 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
OTHERS	2x6 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-6-5 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-8.
BOT CHORD	Rigid ceiling directly applied or 5-0-14 oc bracing.
WEBS	1 Row at midpt 7-13, 9-12

REACTIONS. (size) 2=0-3-8, 16=0-5-8, 11=0-5-0
Max Horz 2=295(LC 11)
Max Uplift 2=-272(LC 8), 16=-457(LC 12), 11=-147(LC 13)
Max Grav 2=179(LC 23), 16=1765(LC 1), 11=801(LC 1)

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

TOP CHORD	2-3=-175/713, 3-4=-678/1240, 4-5=-458/74, 5-6=-1367/384, 6-7=-1353/546, 7-8=-477/308, 8-9=-661/391, 9-10=-661/271, 10-11=-738/267
BOT CHORD	2-17=-586/78, 16-17=-591/76, 15-16=-1350/594, 14-15=-120/569, 13-14=-197/691, 12-13=-157/510
WEBS	3-17=-327/243, 3-16=-758/849, 4-16=-915/330, 4-15=-529/1637, 5-15=-902/362, 5-14=-307/587, 6-14=-292/245, 7-14=-327/991, 7-13=-322/160, 8-13=-169/286, 9-12=-392/134, 10-12=-108/455

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-1-9, Interior(1) 2-1-9 to 22-10-15, Exterior(2R) 22-10-15 to 26-6-7, Interior(1) 26-6-7 to 27-10-15, Exterior(2R) 27-10-15 to 31-6-7, Interior(1) 31-6-7 to 35-8-4 zone; end vertical right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 272 lb uplift at joint 2, 457 lb uplift at joint 16 and 147 lb uplift at joint 11.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

October 31,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES.
3264860	T17	Piggyback Base	1	1	T29088693
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:21:32 2022 Page 1
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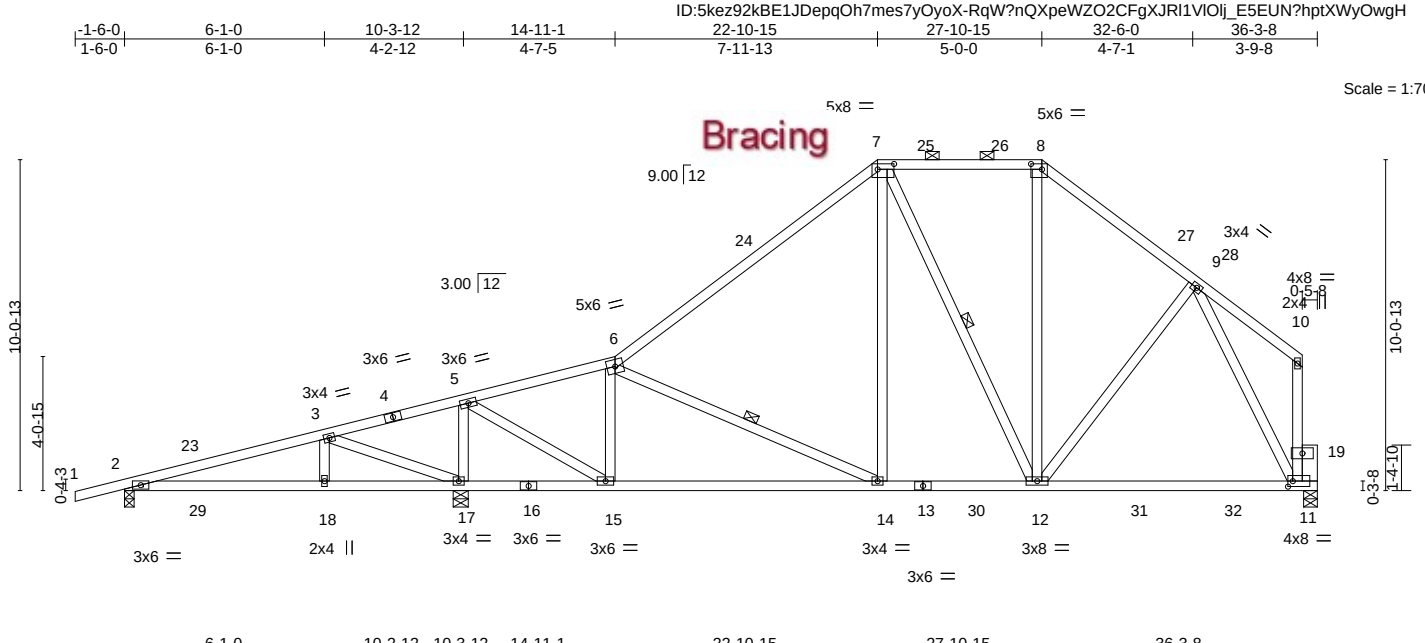

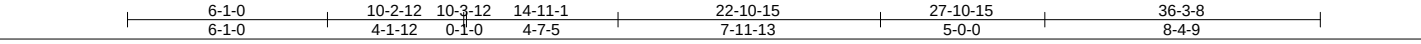

Plate Offsets (X,Y)-- [7:0-6-0,0-2-0], [8:0-4-0,0-2-0], [11:0-1-12,0-2-0]

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	0.95	Vert(LL)	-0.19	11-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.70	Vert(CT)	-0.31	11-12	>981	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.02	11	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 227 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3
OTHERS	2x6 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-8.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 6-14, 7-12

REACTIONS. (size) 2=0-3-8, 17=0-5-8, 11=0-5-0
Max Horz 2=295(LC 11)
Max Uplift 2=-243(LC 8), 17=-406(LC 12), 11=-156(LC 13)
Max Grav 2=324(LC 23), 17=1670(LC 2), 11=994(LC 2)

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

TOP CHORD	2-3=-192/397, 3-5=-505/648, 5-6=-828/119, 6-7=-893/303, 7-8=-573/322, 8-9=-779/327
BOT CHORD	2-18=-447/168, 17-18=-447/168, 15-17=-610/437, 14-15=-164/833, 12-14=-153/680, 11-12=-167/445
WEBS	3-18=-310/231, 3-17=-807/856, 5-17=-1283/481, 5-15=-554/1545, 6-15=-564/339, 7-14=-19/317, 8-12=-87/286, 9-11=-846/294

NOTES-

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-1-9, Interior(1) 2-1-9 to 22-10-15, Exterior(2R) 22-10-15 to 26-6-7, Interior(1) 26-6-7 to 27-10-15, Exterior(2R) 27-10-15 to 31-6-7, Interior(1) 31-6-7 to 35-8-4 zone; end vertical right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 243 lb uplift at joint 2, 406 lb uplift at joint 17 and 156 lb uplift at joint 11.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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

October 31,2022

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES. T29088694
3264860	T18	Piggyback Base	5	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:21:34 2022 Page 1
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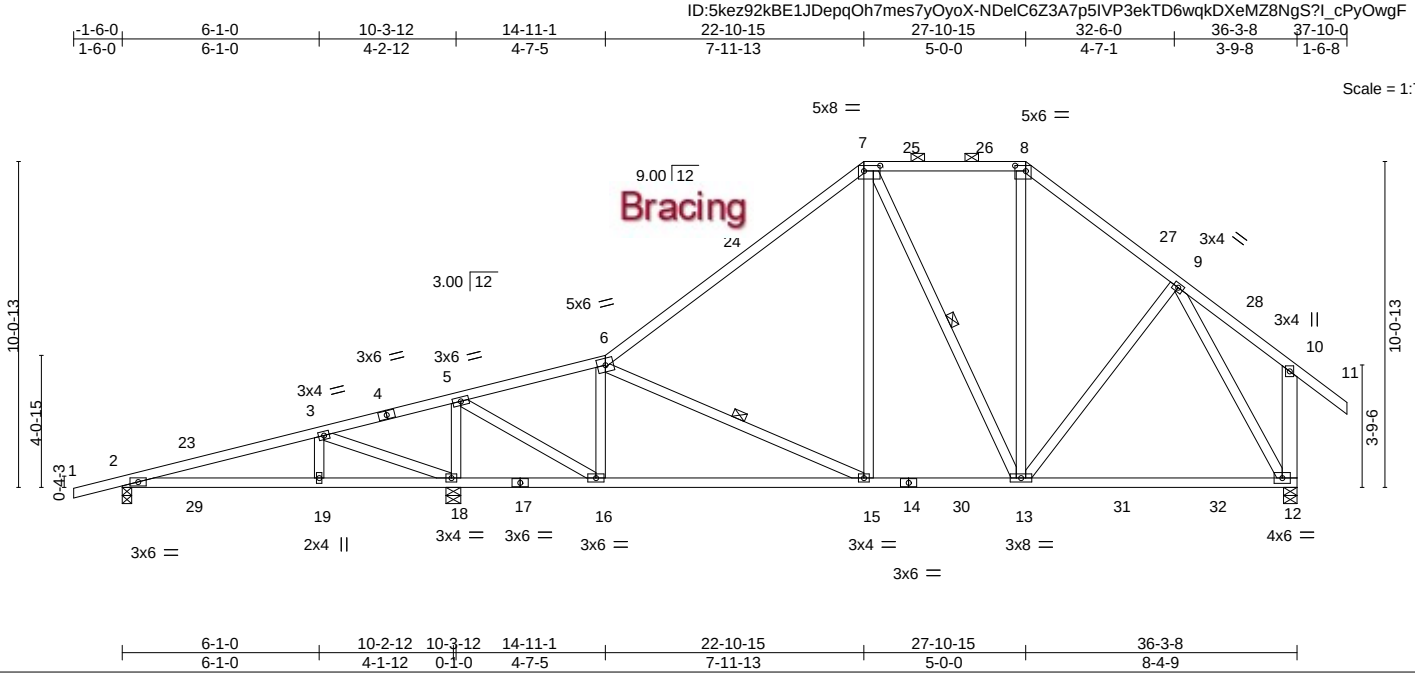

Plate Offsets (X,Y)-- [7:0-6-0,0-2-0], [8:0-4-0,0-2-0]

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	0.96	Vert(LL)	-0.20	12-13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.72	Vert(CT)	-0.33	12-13	>925	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.02	12	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 231 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
10-12: 2x6 SP No.2

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

REACTIONS. (size) 2=0-3-8, 18=0-5-8, 12=0-5-0
Max Horz 2=302(LC 11)
Max Uplift 2=-246(LC 8), 18=-405(LC 12), 12=-207(LC 13)
Max Grav 2=323(LC 23), 18=1674(LC 2), 12=1092(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-191/419, 3-5=-450/651, 5-6=-832/140, 6-7=-898/314, 7-8=-580/333, 8-9=-787/339
BOT CHORD 2-19=-407/166, 18-19=-407/166, 16-18=-613/454, 15-16=-153/844, 13-15=-127/696, 12-13=-103/460
WEBS 3-19=-310/231, 3-18=-807/855, 5-18=-1288/470, 5-16=-539/1551, 6-16=-566/331, 7-15=-22/312, 8-13=-91/287, 9-13=-72/256, 9-12=-854/210

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-1-9, Interior(1) 2-1-9 to 22-10-15, Exterior(2R) 22-10-15 to 26-6-7, Interior(1) 26-6-7 to 27-10-15, Exterior(2R) 27-10-15 to 31-6-7, Interior(1) 31-6-7 to 37-10-0 zone; end vertical right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Provide adequate drainage to prevent water ponding.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 246 lb uplift at joint 2, 405 lb uplift at joint 18 and 207 lb uplift at joint 12.
8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Date:

October 31,2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES. T29088695
3264860	T19	Monopitch	12	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:21:35 2022 Page 1
ID:5kez92kBE1JDepqOh7mes7yOyoX-rPC7PSahxRxyvf_FCR_Sf7N0Ex2glicphf2X8ryOwgE

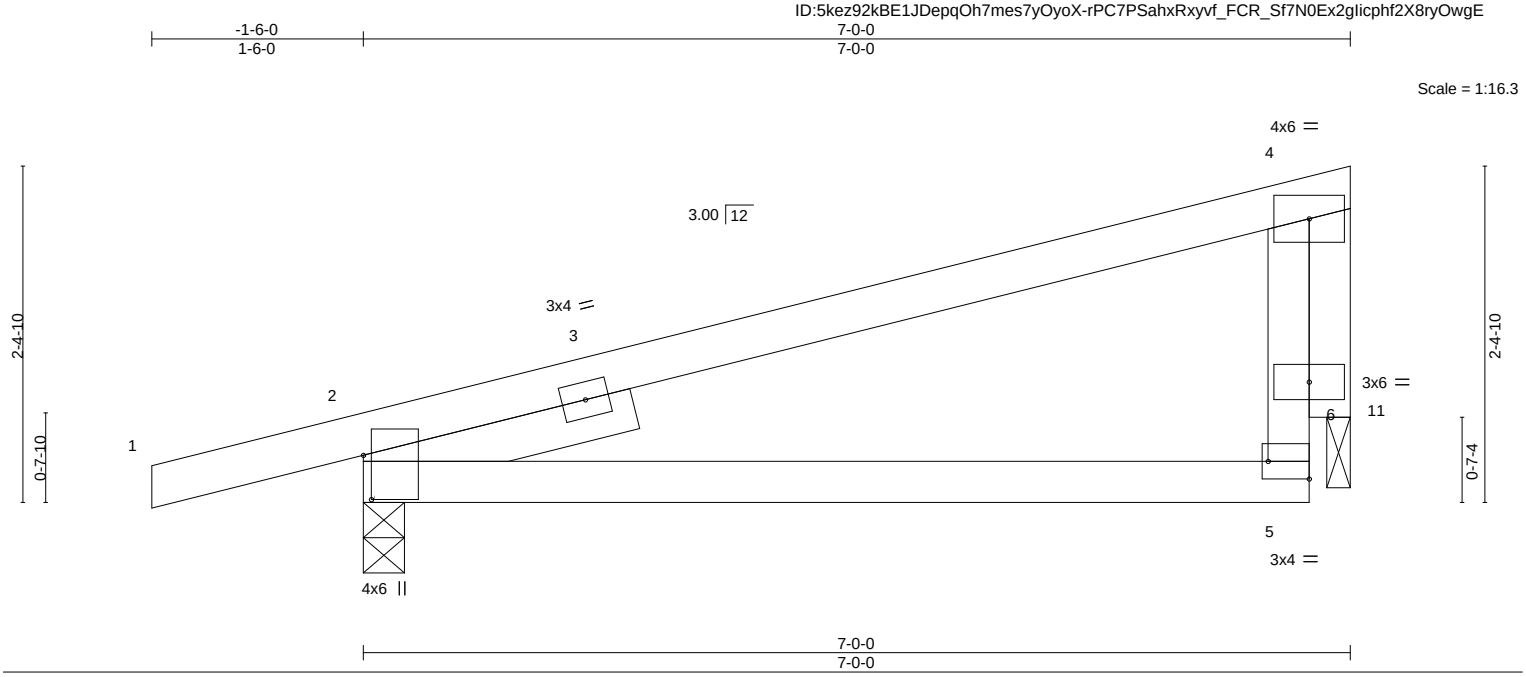

Plate Offsets (X,Y)-- [2:0-3-12,0-0-11], [5:Edge,0-1-8]

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	0.49	Vert(LL)	0.16	5-9	>531	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.46	Vert(CT)	0.14	5-9	>612	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.36	Horz(CT)	-0.02	2	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MR							Weight: 31 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
SLIDER Left 2x4 SP No.3 1-11-8

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

REACTIONS. (size) 2=0-3-8, 11=0-2-0
Max Horz 2=79(LC 8)
Max Uplift 2=-194(LC 8), 11=-128(LC 8)
Max Grav 2=345(LC 1), 11=222(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-332/542
BOT CHORD 2-5=-257/143
WEBS 4-11=-236/415

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-6-12 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
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) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 11.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 194 lb uplift at joint 2 and 128 lb uplift at joint 11.

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES. T29088696
3264860	T20	Jack-Closed	6	1	Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:21:35 2022 Page 1
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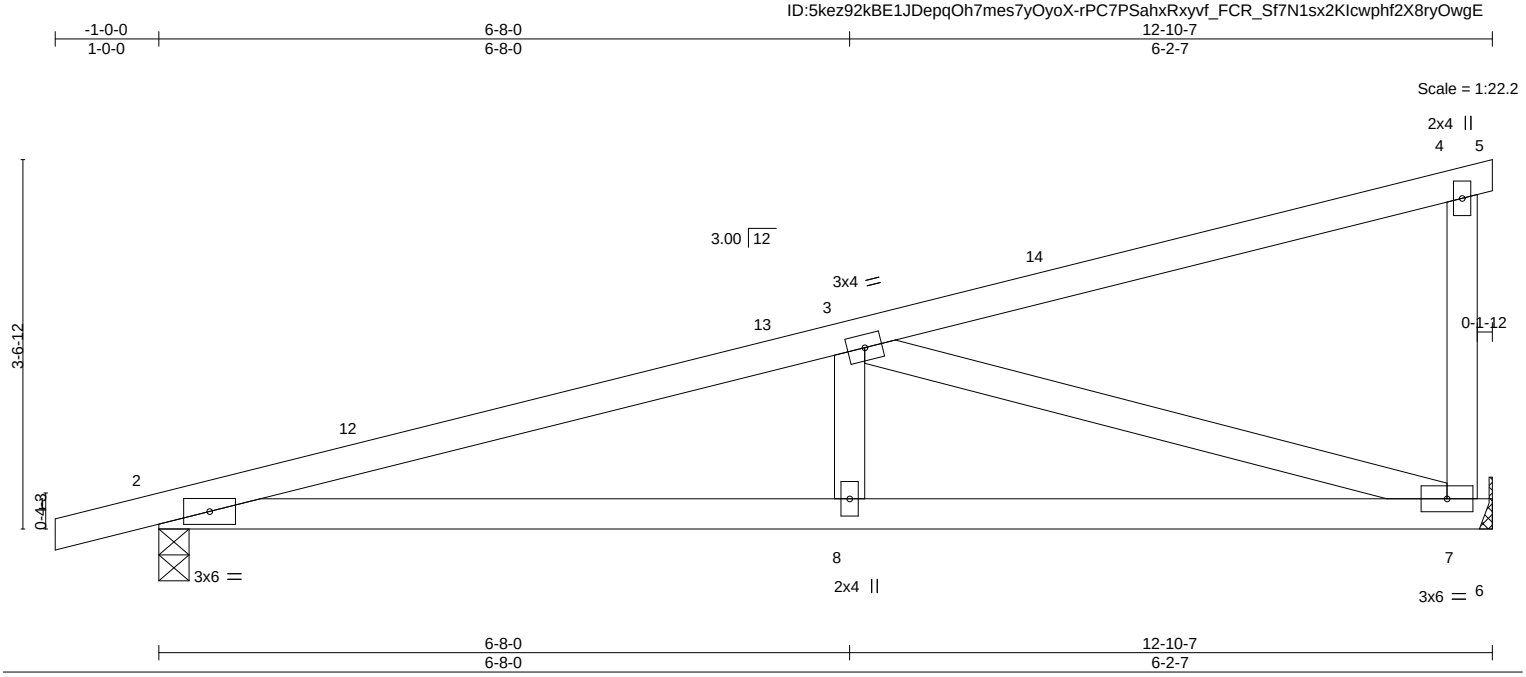

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.39	Vert(LL)	-0.07	8-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.48	Vert(CT)	-0.13	8-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-MS							Weight: 56 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 5-3-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-11-7 oc bracing.

REACTIONS. (size) 2=0-3-8, 7=Mechanical
Max Horz 2=130(LC 8)
Max Uplift 2=-167(LC 8), 7=-159(LC 8)
Max Grav 2=521(LC 1), 7=473(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1053/326
BOT CHORD 2-8=-423/1001, 7-8=-423/1001
WEBS 3-8=0/274, 3-7=-1005/415

NOTES-
1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 12-10-7 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 167 lb uplift at joint 2 and 159 lb uplift at joint 7.

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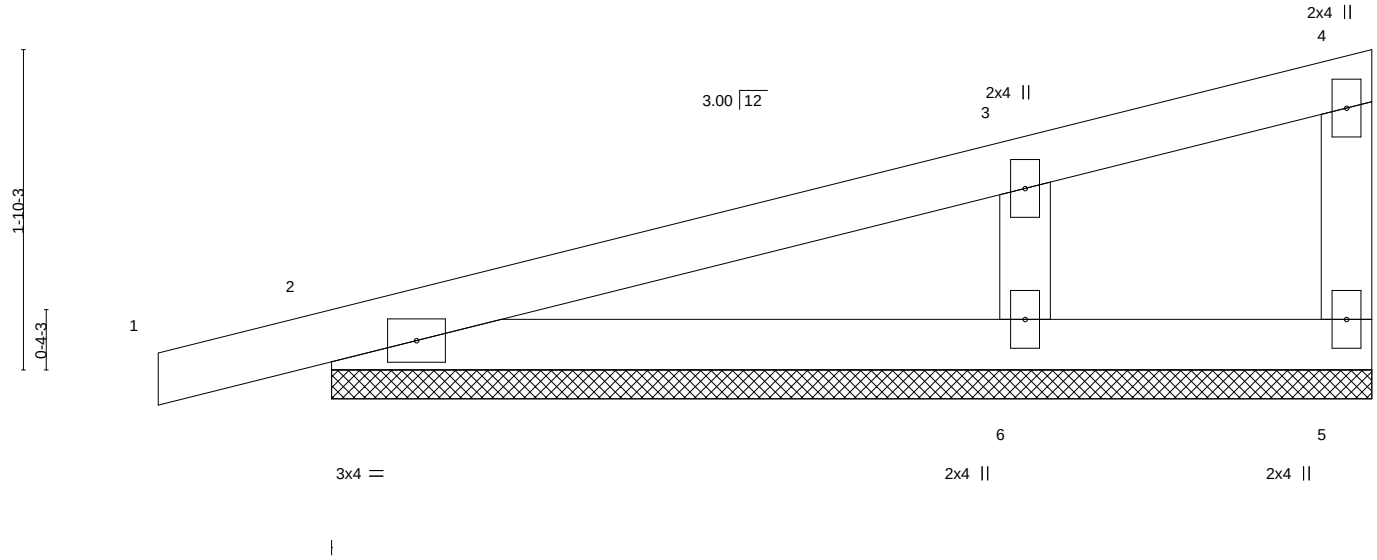
Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES.
3264860	T20G	GABLE	2	1	T29088697
					Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Fri Oct 28 09:21:36 2022 Page 1
ID:5kez92kBE1JDepqOh7mes7yOyoX-JblWcoaJil3pXpZSm9WhBLvGLKU31DTywJn5gHyOwgD

-1-0-0 6-0-0
1-0-0 6-0-0

Scale = 1:13.3



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.15	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.13	Vert(CT)	0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-P							Weight: 23 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) 2=6-0-0, 5=6-0-0, 6=6-0-0
Max Horz 2=65(LC 8)
Max Uplift 2=-73(LC 8), 5=-7(LC 8), 6=-95(LC 12)
Max Grav 2=183(LC 1), 5=14(LC 1), 6=290(LC 1)

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

NOTES-

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 5-10-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 2-0-0 oc.
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 73 lb uplift at joint 2, 7 lb uplift at joint 5 and 95 lb uplift at joint 6.

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Job	Truss	Truss Type	Qty	Ply	IC CONST. - HOSFORD RES.
3264860	TG01	Roof Special Girder	1	2	T29088698
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055 — 8.530 s Jan 6 2022 MiTek Industries, Inc. Fri Oct 28 14:16:39 2022 Page 1

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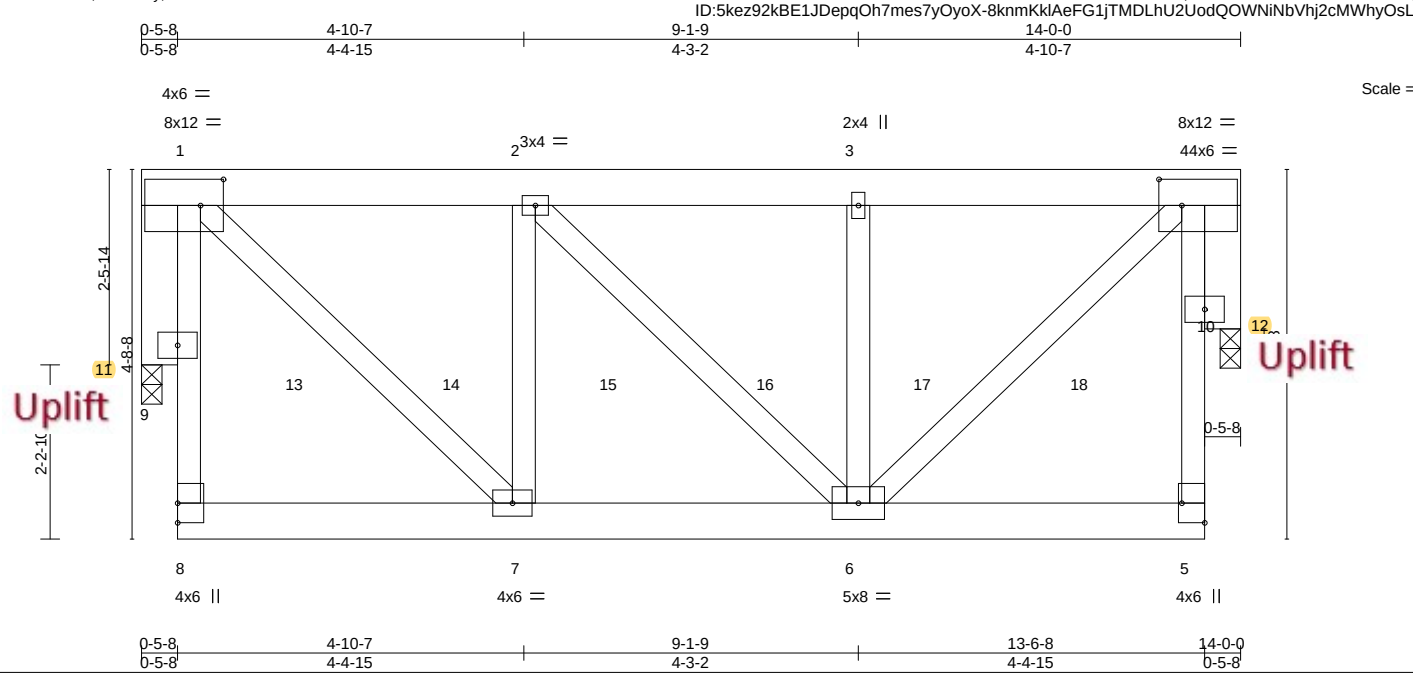

Plate Offsets (X,Y)-- [1:0-3-8,0-4-0], [4:0-3-8,0-4-0], [5:Edge,0-3-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.81	Vert(LL)	-0.04	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.51	Vert(CT)	-0.07	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.68	Horz(CT)	0.13	12	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							Weight: 237 lb	FT = 20%

LUMBER-

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3 *Except* 1-8,4-5: 2x4 SP No.2
OTHERS	2x6 SP No.2

BRACING-

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

REACTIONS. (size) 11=0-3-2, 12=0-3-2
Max Uplift 11=-1119(LC 4), 12=-1119(LC 4)
Max Grav 11=3432(LC 1), 12=3432(LC 1)

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

TOP CHORD	8-9=-201/665, 1-9=-201/665, 1-2=-2930/958, 2-3=-2930/958, 3-4=-2930/958, 5-10=-202/668, 4-10=-202/668
BOT CHORD	7-8=-145/442, 6-7=-958/2930, 5-6=-132/402
WEBS	1-7=-1148/3511, 2-7=-851/312, 3-6=-906/330, 4-6=-1166/3569, 1-11=-3507/1144, 4-12=-3534/1153

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
   Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
   Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
   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) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) interior zone; Lumber DOL=1.60 plate grip DOL=1.60
4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
5) Provide adequate drainage to prevent water ponding.
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) Bearing at joint(s) 11, 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1119 lb uplift at joint 11 and 1119 lb uplift at joint 12.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 453 lb down and 179 lb up at 2-0-0, 453 lb down and 179 lb up at 4-0-0, 453 lb down and 179 lb up at 6-0-0, 453 lb down and 179 lb up at 8-0-0, and 453 lb down and 179 lb up at 10-0-0, and 453 lb down and 179 lb up at 12-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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Date:

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Continued on page 2

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-4=-179(B=-125), 5-8=-145(B=-125)
   Concentrated Loads (lb)
   Vert: 13=-453(F) 14=-453(F) 15=-453(F) 16=-453(F) 17=-453(F) 18=-453(F)

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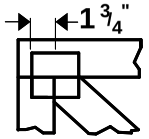
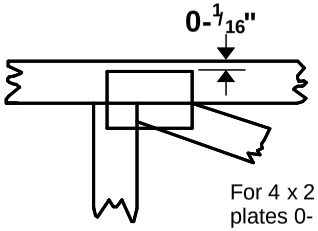
Symbols

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.

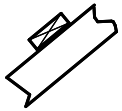
*** Plate location details available in MiTek 20/20 software or upon request.**

PLATE SIZE

4 x 4

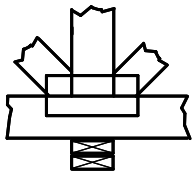
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

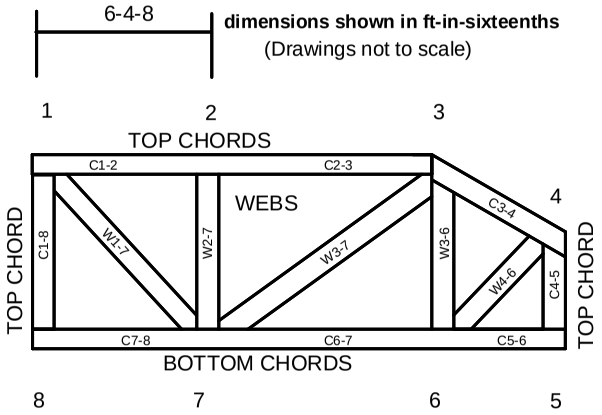


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & 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-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

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

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.